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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	1 of 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling					Sampling		Field Material Description					
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
AD/V	E	Groundwater Not Observed	0	878.11				CL	TOPSOIL Sandy CLAY: low plasticity, yellow-brown, sand is fine grained.	w<PL	St	TOPSOIL
				0.20								
				877.91				CL-CI	Sandy CLAY: low to medium plasticity, red-brown and orange-brown, sand is fine to medium grained.			RESIDUAL SOIL
	F-H		1							w<PL	St - VSt	
			2									
			3									
			4	4.30					Continued as Cored Borehole			
			5									
			6									
			7									
			8									
			9									
			10									

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir		
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Sheet	2 OF 92
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Started:	30/10/2023
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Date Completed:	23/3/2024
		Inclination:	-87° Direction: 233°	Logged:	AAB/DD

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M 2 H 6 VH 20 EH 60	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
				0							
				1							
				2							
				3							
				4	4.30		Continuation from non-cored borehole				
PQ3		31	0	5	873.82		NO CORE 1.30m (4.30-5.60) CL-CI Sandy CLAY INFERRED: low to medium plasticity, red-brown and orange-brown, sand is fine to medium grained. stiff.				
					5.60						
					872.52		SM Silty SAND: coarse grained, brown-red, silt is low plasticity; trace fine grained gravel. stiff.				
					5.85						
				6	872.27		LAMPROPHYRE: fine to medium grained, grey and pale brown, porphyritic, massive, phenocrysts to 2 mm diameter.	HW		5.70-6.20: J, br, gy SN, IR, multiple defects, various angles, 10-30mm spacing	
					6.20						
					871.92		NO CORE 0.40m (6.20-6.60)				
					6.60						
		80	17	7	871.52		LAMPROPHYRE: fine to medium grained, grey and pale brown, porphyritic, massive, unoriented phnocrysts, moderate silica alteration.	MW		7.06: J, 30°, Fe SN, PR, SM 7.02-7.27: J, 85°, Fe, or SN, PR, SM 7.26: J, 30°, gy mi SN, PR, RF 7.43: J, 30°, Fe, gy mi SN, UN, RF 7.50: J, 90°, CT, CU, RF 7.45-7.80: FZ, Fe SN, IR, SM, multiple defects, various angles, 10-30mm spacing 7.80-8.00: FZ, Fe SN, IR, SM, multiple defects, various angles, 0-10mm spacing 8.00-8.30: FZ, Fe SN, IR, SM, multiple defects, various angles, 10-30mm spacing	
				8	8.30						
		100	94		869.82		Grey and brown-orange.	FR			
		100	93	9						9.38: SZ, 15 - 20°, possible SZ, horizontal deflection 20mm	
				10	10.00						

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir		
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Sheet	3 OF 92
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Started:	30/10/2023
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Date Completed:	23/3/2024
		Inclination:	-87° Direction: 233°	Logged:	AAB/DD

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)
PQ3	Groundwater dipped	100	93	10	868.12		LAMPROPHYRE: fine to medium grained, grey and pale brown, porphyritic, massive, unoriented phnocrysts, moderate silica alteration.	FR	VL .2 L .6 M .20 H .60 VH .200 EH	11.30: J, 70°, VN, UN, SM 11.60-11.72: J, 90°, CN, UN, RF	10 30 100 300 1000 3000
				11							
		100	100	12	12.00 866.13		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey, pink, brown and white, fine to coarse grain, crystalline, up to 600 mm thickness, pale grey alteration throughout.				
		100	100	13						13.60: J, 30°, CN, UN, RF	
				14						14.00: J, 30°, CN, UN, RF 14.20: J, 15°, CN, UN, RF	
				15	15.10 863.03		LAMPROPHYRE: fine to medium grained, grey to dark grey, porphyritic, massive, phenocrysts to 2 mm diameter.			14.60-15.00: J, 85°, wh mi, VN, RF, likely hJ opened by drilling 14.80: J, 30°, UN, RF	
		100	90	16						15.35: J, 60°, wh mi VN, UN, RF 15.30-15.44: J, 70°, wh-gn mi VN, UN, RF 15.40: J, 10°, wh mi VN, UN, RF 15.40-15.52: J, 70°, wh mi VN, UN, RF 15.73: J, 0 - 20°, wh mi VN, UN, RF 15.73-15.90: J, 75°, UN, closed	
				17	17.50 860.63		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey, pink, brown and white, fine to coarse grain, crystalline, up to 500 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter.			16.60: J, 0 - 30°, CN, UN, RF 16.75: J, 5°, gn, br mi SN, IR, RF 16.90: J, 10°, gn, br mi SN, UN, RF 16.85-17.05: J, 50°, gn, br mi SN, UN, RF 17.03: J, 0°, gn, br mi SN, UN, RF 17.07: J, 10°, gn, br mi SN, UN, RF 17.14: J, 20°, CN, UN, RF 17.27: J, 20°, wh-gn mi SN, PR, RF	
		100	87	18						17.70: J, 5°, CN, UN, RF 17.92-18.25: J, 50 - 90°, wh mi CT, UN, RF, open to healed 18.20: J, 60°, CU, RF	
				19						18.53: J, 20°, wh mi CT, UN, RF 18.93: J, 10°, wh mi SN, PR, RF 19.08: J, 10°, wh mi VN, IR, RF 19.29: J, 15°, wh-gn mi SN, PR, RF 19.45: J, 15°, CN, UN, RF	
				20	20.00						

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	4 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL -2 L -6 M -20 H -60 VH -200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
PQ3		100	87	20	858.14		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey, pink, brown and white, fine to coarse grain, crystalline, up to 500 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter.	FR		20.18: J, 5°, CN, UN, RF 20.74: J, 10°, pl yl mi SN, UN, RF	
		100	100	21						23.12: J, 25°, pl yl mi SN, UN, RF 23.41: J, 20°, pl yl mi SN, PR, SM	
		100	100	23						24.16: J, 15°, pl yl mi SN, UN, RF	
		100	100	25						25.10: J, 15°, IR 25.61: J, 15°, pl yl mi SN, UN, RF	
		96	84	27						27.15: J, 5°, wh mi, Fe SN, IR, RF 27.46: J, 5°, wh mi, Fe SN, UN, RF 27.60: J, 5°, wh mi, Fe SN, UN, RF	
		100	100	29	29.30		NO CORE 0.10m (29.30-29.40)				
		100	100	30	848.75 30.00		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey, pink, brown and white, fine to coarse grain,	FR		29.81: J, 25°, CN, UN, RF	

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	5 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M .20 H .60 VH .200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
PQ3		100	100	30	848.15		crystalline, up to 500 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter.	FR			
							MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey, pink, brown and white, fine to coarse grain, crystalline, up to 500 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter.			30.50: J, 30°, CN, UN, SM	
				31						30.80: J, 30°, CU, RF 30.80: J, 30°, CU, RF 30.80: J, 30°, CU, RF	
				32							
				33						33.20: J, 10°, IR, VR	
					34.00					33.68: J, 20°, wh mi SN, PR, SM 33.70: J/V, 20°, CN 33.78: J, 20°, pl yl mi SN, PR, SM 33.63-34.04: J, 80°, gn mi CN, UN, SM, 3 mm 33.87-33.98: J, 10°, CN, ST, SM	
		100	90	34	844.16		LAMPROPHYRE: fine to medium grained, grey to dark grey, porphyritic, massive, moderate silica alteration, phenocrysts to 2 mm diameter.			34.22: J, 15°, wh mi CN, PR, SM 34.42: J, 20°, CN, PR, SM 34.57: J, 15°, wh mi VN, PR, RF	
				35						35.05: J, 5°, CN, UN, RF 35.22: J, 10°, CN, UN, RF	
										35.54: J, 15°, wh mi VN, UN, RF 35.58: J, 20°, wh mi VN, UN, RF	
				36						36.44: J, 45°, wh-yl mi SN, UN, RF 36.65: J, 10°, CN, UN, RF	
		100	80	37						36.97-37.26: J, 85 - 90°, CN, UN, RF 37.40: J, 20°, CN, ST, RF	
				38						37.55: J, 45°, wh mi SN, PR, SM, DB on hJ 37.65: J, 30°, wh mi SN, PR, RF, DB on hJ 37.70: J, 50°, wh mi SN, PR, RF 37.80: J, 45°, wh mi SN, PR, RF, DB on hJ 37.67-37.95: J, 70°, wh mi CT, UN, RF 37.93: J, 40°, wh mi SN, PR, RF, DB on hJ 37.98: J, 40°, wh mi SN, CU, RF, DB on hJ 37.05-39.25: J, 80 - 90°, wh mi CT, UN, RF	
				39							
		100	100		39.55						
					838.61		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey,				
				40	40.00						

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	6 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M .20 H .60 VH .200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
PQ3		100	100	40	40.10 838.06		pink, brown and white, fine to coarse grain, crystalline, up to 200 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter. LAMPROPHYRE: fine to medium grained, grey to dark grey, porphyritic, massive, moderate silica alteration, phenocrysts to 2 mm diameter.	FR		40.14: J, 20°, wh mi VN, ST, SM	
				41						41.12: J, 30°, PR, RF 41.48: J, 20°, CN, PR, SM	
				42						41.92: J, 5°, PR, RF 42.59: J, 20°, CN, PR, RF 42.82: J, 30°, PR, RF	
		100	100	43						43.11: J, 30°, gn-wh mi, PR 43.56: J, 30°, gn-wh mi, PR, SM 43.79: J, 10°, gn-wh mi, PR, RF	
				44						44.62: J, 20°, CN, ST, SM	
				45						45.40: J, 10°, CN, PR, SM 45.74: J, 15°, gn-wh mi SN, PR, RF	
		100	100	46						46.05: J, 30°, gn-wh mi SN, PR, SM	
				47	47.60 830.58					46.70: J, 5°, yl-gn mi, PR, SM 47.20: J, 20°, gy mi, PR, RF	
					47.98 830.20		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, white to grey, porphyritic, massive; granite is pale grey, pink, brown and white, fine to coarse grain, crystalline, up to 400 mm thickness, moderately altered, phenocrysts to 2 mm diameter. Lampophyre becomes pale grey to dark grey, slightly to non-altered.			47.43: J, 0°, gy mi SN, UN, RF 47.44: J, 5°, yl-gn mi CN, UN, SM 47.60: J, 5°, gy mi SN, UN, RF	
				48						47.97: J, 5°, CN, UN, RF 48.10: J, 5°, gy mi SN, PR, SM	
		100	95	49						48.50: J, 10°, PR, SM 48.70: SZ, 30°, shear faulted gauge clay qtz CT, IR, VR 49.10: J, 10°, gy mi, PR, RF 49.36: J, 5°, PR, RF	
				50	50.00					49.76: J, 5°, PR, RF	

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	7 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M 2 H 6 VH 20 EH 200	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
PQ3		100	95	50	828.18		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey, pink, brown and white, fine to coarse grain, crystalline, up to 400 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter.	FR		49.96: J, 30°, PR, RF 50.50: J, 5°, CU, RF 50.70: J, 20°, PR, RF 50.84: J, 5°, CU, RF	
				51						51.06: J, 10°, PR, RF 51.30: J, 15°	
		100	100	52	52.74					51.66: J, 5°, gy mi, PR, SM 51.68: J, 30°, CN, PR, SM 52.05: J, 5°, PR, RF 52.07: J, 30°, PR, RF	
					825.44		GRANITE: medium to coarse grained, white, pink and grey, crystalline, massive, slightly pink alteration.			52.75: J, 30°, PR, SM	
				53	53.00 825.18		LAMPROPHYRE: fine to medium grained, grey to dark grey, porphyritic, massive, moderate silica alteration, phenocrysts to 2 mm diameter.			53.70: J, 30°, PR, SM	
				54	54.03					53.93: J, 45°, PR, SM	
		100	94		824.15		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey, pink, brown and white, fine to coarse grain, crystalline, up to 600 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter.	SW		54.67: J, 30°, PR, SM	
				55			becoming coarser grained and slightly altered			54.93: J, 45°, PR, SM 55.00: J, 45°, CN, PR, SM 55.20: J, 5°, CN, SM 55.45: J, 10°, PR, SM	
		100	100	56						55.80: J, 70°, UN, RF 56.10: J, 5°, PR, RF 56.10: J, 5°, PR, RF 56.20: J, 5°, PR, RF 56.22: J, 30°, CN, PR, RF 56.30: J, 20°, CU, RF 56.43: J, 10°, PR, RF	
					56.85 821.34		LAMPROPHYRE: fine to medium grained, grey to dark grey, porphyritic, massive, moderate silica alteration, phenocrysts to 2 mm diameter.			56.84: J, 10°, PR, RF	
		100	100	58						58.06: J, 45°, wh mi qtz and chlorite veins and bk veins with rare pyrite CT, IR, SM 58.44: J, 40°, PR, RF	
				59						58.75: J, 60°, PR, RF 58.75: J, 60°, PR, RF 59.13: J, 20°, PR, RF 59.42: J, 20°, PR, RF	
		100	98	60	60.00					59.64: J, 30°, PR, RF	

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	8 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M .20 H .60 VH .200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
PQ3		100	98	60	818.19		LAMPROPHYRE: fine to medium grained, grey to dark grey, porphyritic, massive, moderate silica alteration, phenocrysts to 2 mm diameter.	SW		60.13: J, 10°, PR, RF 60.33: J, 50°, CN, PR, RF 60.40: J, 50°, CN, PR, RF 60.40: J, 50°, CN, PR, RF 60.45: J, 50°, CN, CU, RF 60.56: J, 50°, PR, RF 60.60: J, 70°, PR, RF 60.74: J, 45°, PR, RF 60.78: J, 45°, PR, SM	
				61							
				62	*62.07*					61.54: J, 20°, IR, RF 61.54: J, 20°, IR, RF 61.65: J, 15°, PR, RF	
		100	100	63	816.13 *63.55*		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey, pink and white, fine to coarse grain, crystalline, up to 100 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter.			62.69: J, 10°, PR, RF 63.36: J, 70°, IR, RF	
				64	814.65		LAMPROPHYRE: fine to medium grained, grey to dark grey, porphyritic, massive, moderate silica alteration, phenocrysts to 2 mm diameter.			64.32: J, 20°, IR, RF 64.67: J, 10°, IR, RF	
				65						65.25: J, 30°, PR, RF 65.65: J, 30°, PR, RF	
				66	*66.20*						
		100	97	67	812.00		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey, pink and white, fine to coarse grain, crystalline, up to 100 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter.			66.36: J, 60°, PR, RF 67.41: J, 10°, IR, RF	
				68						67.93-68.54: SZ, 70°, sheared faulted zone altered with clay or faulted gauge material, some brecciated host rock, IR, healed, wh-pl gn mi 68.36: J, 45°, IR, RF 68.23-68.54: J, 70°, pl gn-wh mi CT, UN, SM, joint at base of shear zone 68.60: J, 90°, CN, CU, SM 68.70: J, 90°, PR, RF	
		100	97	69						69.45: J, 40°, CU, RF	
				70	*70.00*					69.80: J, 85°, IR, RF	

Comments

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir		
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Sheet	9 OF 92
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Started:	30/10/2023
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear	Date Completed:	23/3/2024
			LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)
PQ3		100	97	70	808.21		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey, pink and white, fine to coarse grain, crystalline, up to 100 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter.	SW		69.80: J, 85°, IR, RF 70.60: J, 20°, CU, RF 70.80: J, 20°, UN, RF 70.83: Jx3, 90°, UN, RF 70.85: J, 5°, UN, RF 71.67: J, 30°, CU, RF 71.67: J, 30°, CU, RF 72.50: J, 10°, CU, RF 73.56: J, 25°, CU, RF 74.38: J, 10°, CU, RF 76.20-76.54: SZ, 45°, clay VN, CU, RF, 20 mm, 20mm vertical displacement 76.66: J, 5°, CU, RF 76.67-77.28: SZ, 80°, wh-pl gn mi, PR, 10-40mm displacement along healed joint 78.15: J, 10°, CN, IR, SM 78.68: J, 20°, CU, RF 79.66: J, 30°, IR, RF 79.40-79.94: SZ, 75 - 90°, wh-pl gn mi, ST, unknown amount of displacement noted along healed joint	10 30 100 300 1000 3000
		100	100	73							
		100	97	76							
		100	97	79				FR			
					77.75						
					800.47		LAMPROPHYRE: fine to medium grained, grey to dark grey, porphyritic, massive, moderate silica alteration, phenocrysts to 2 mm diameter.				
					80.00						

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	10 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M .20 H .60 VH .200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
PQ3		100	97	80	798.22		LAMPROPHYRE: fine to medium grained, grey to dark grey, porphyritic, massive, moderate silica alteration, phenocrysts to 2 mm diameter.	FR		79.73: J, 5°, PR, RF 79.93: J, 60°, PR, RF 80.30: J, 90°, CU, RF 80.31: J, 10°, CN, PR, RF 80.40: J, 10°, CN, PR, SM 80.70: J, 30°, CN, PR, SM 80.70: J, 30°, CN, PR, SM	
				81				SW		81.08: J, 30°, PR, RF 80.90-81.65: SZ, 85°, wh-pl gn mi, Fe, UN, SM, apparent displacement unknown, possibly >20mm, rubbled and wedged host rock	
		100	97	82						82.09: S, 80°, CN, PR, SM 82.24: J, 15°, PR, RF	
				83						83.15: J, 30°, PR, RF 83.34: J, 30°, PR, SM 83.66: J, 5°, CN, PR, SM	
				84							
				85						85.29: J, 40°, PR, RF	
		100	100		85.73						
				86	792.50		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey, pink and white, fine to coarse grain, crystalline, up to 800 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter, slightly altered about healed defects.				
				87						87.22: J, 10°, PR, RF	
				88						87.88: J, 40°, PR, RF	
					88.15						
		100	100		790.08		LAMPROPHYRE: fine to medium grained, grey and dark grey, porphyritic, massive, moderate silica alteration, phenocrysts to 2 mm diameter.			88.20: J, 20°, PR, RF 88.44: J, 60°, wh mi Qtz, PR, SM	
				89						89.49: J, 5°, IR, RF	
				90	90.00						

Comments

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	11 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M 2 H 6 VH 20 EH 200	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
PQ3		100	100	90	788.23		LAMPROPHYRE: fine to medium grained, grey and dark grey, porphyritic, massive, moderate silica alteration, phenocrysts to 2 mm diameter.	SW		90.06-90.22: J x3, 60°, wh mi, UN 90.46: J, 20°, yl-gn mi SN, PR, RF 90.56-90.70: SZ, 0 - 45°, wh-gy mi VN, IR, RF	
				91						91.00: J, 5°, CN, PR, RF 91.22: J, 40°, CN, PR, RF 91.40: J, 40°, CN, PR, RF	
		100	68							91.59: J, 20°, CN, PR, RF 91.73: J, 15°, CN, PR, RF 91.76: J, 15°, CN, PR, RF 91.78: J, 15°, CN, PR, RF 91.80: J, 15°, CN, PR, RF 91.86: J, 15°, CN, PR, RF 91.91: J, 15°, CN, PR, RF 92.01: J, 15°, CN, PR, RF 92.27: J, 10°, CN, PR, RF 92.27: J, 30°, CN, PR, RF 92.48: J, 70°, CN, PR, RF 92.46-92.52: FZ, fractured zone 92.82: J, 30°, CN, PR, RF 92.95: J, 40°, CN, PR, RF 93.06: J, 50°, CN, PR, RF	
				92							
					92.75						
					785.49		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, dark grey, porphyritic, massive; granite is pale grey, pink and white, fine to coarse grain, crystalline, up to 300 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter.				
				93						93.40: J, 60°, CN, PR, RF 93.54: J, 60°, CN, PR, RF 93.56: J, 60°, CN, PR, RF	
				94							
		100	55							94.25: J, 5°, CN, PR, RF 94.26: J, 5°, CN, PR, RF 94.32: J, 60°, CN, PR, RF 94.35: J, 60°, CN, PR, RF	
					95.00						
				95	783.24		LAMPROPHYRE: fine to medium grained, grey and dark grey, porphyritic, massive, phenocrysts to 2 mm diameter, slightly altered about healed defects.			94.90: J, 70°, highly altered with some veins/joints dipping 90 95.01: J, 30°, CN, PR, RF 95.01-95.15: SZ, 55°, sheared faulted zone altered with clay or faulted gauge material, some brecciated host rock 95.41: J, 20°, CN, PR, RF 95.47: J, 30°, CN, PR, RF 95.65: FZ, 70°, highly altered fractured zone	
				96						96.30: J, highly altered	
					97.10						
				97	781.14		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, dark grey, porphyritic, massive; granite is pale grey, pink and white, fine to coarse grain, crystalline, up to 300 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter.			97.12: J, 60°, CN, PR, RF	
		100	97							97.67: J, 45°, CN, PR, RF	
				98							
										98.72: J, 60°, CN, PR, RF 98.76: J, 60°, CN, PR, RF 98.97: J, 5°, CN, PR, RF	
				99							
		100	100		99.75						
					778.50		LAMPROPHYRE: fine to medium grained, dark grey, porphyritic, massive, phenocrysts to 2 mm diameter,			99.75: J, 10°, CN, IR, RF	
				100	100.00						

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	12 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)
PQ3		100	100	100	778.25		highly altered.	SW	VL .2 L .6 M .20 H .60 VH .200 EH	100.21: J, 70°, highly altered and oxidised 100.21: J, 60°, CN, PR, RF	10 30 100 300 1000 3000
					100.40		LAMPROPHYRE: fine to medium grained, dark grey, porphyritic, massive, phenocrysts to 2 mm diameter.			100.30-100.62: SZ, 20 - 80°, highly altered and brecciated host rock within shear zone, IR 100.50: J, 5°, CN, PR, RF 100.67: J, 60°	
				101	777.75		Pink and white, extremely weathered vein, decompesed into clay.			100.60-100.86: J, 80°, highly altered and brecciated host rock, IR, RF 100.84: J, 10°, CN, PR, RF 100.84: J, 60°, rd oxidised, possibly highly altered and brecciated host rock within shear zone	
							Fine to medium grained, dark grey, porphyritic, massive, phenocrysts to 2 mm diameter.	SW		100.87: J, 60°, CN, PR, RF 101.50: J, 5°, CN, PR, RF 101.65: J, 5°, CN, PR, RF	
					101.40						
					776.75		Pale grey, extremely weathered vein, decomposed to clay.				
				102			Fine to medium grained, dark grey, porphyritic, massive, phenocrysts to 2 mm diameter, moderately altered.			101.28-102.80: SZ, 75 - 90°, highly altered, brecciated and healed host rock, IR, multiple shear surfaces, unknown vertical displacement, possibly >200mm 102.10: J, 90°, brecciated material, 50 mm displacement, right block move up 102.38: J, 85°, CN, PR, RF 102.73: J, 20°, CN, PR, RF 102.85: J, 20°, CN, PR, RF	
				103				SW		103.00: J, 60°, gn mi SN, PR, SM	
					103.60					103.37: J, 60°, CN, PR, RF	
		100	97		774.65	+	MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey, pink and white, fine to coarse grain, crystalline, up to 300 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter, moderately altered.			103.75: J, 30°, CN, PR, RF	
				104		+				104.20: J, 5°, CN, PR, RF	
						+				104.63: J, 5°, CN, PR, RF	
				105		+					
						+				105.70: J, 5°, CN, PR, RF 105.70: J, 10°, CN, PR, RF	
					106.00	+					
				106	772.26	+	Pale grey, white, higly altered granite, with longtitudinal joint and numerous joints.	SW		106.09: J, 5°, CN, PR, RF 106.25: J, 5°, CN, PR, RF 106.40: J, 5°, CN, PR, RF 106.50: J, 5°, CN, PR, RF 106.60: J, 5°, CN, PR, RF	
		100	57			+				105.95-107.61: Jx3, 80 - 90°, wh mi CT, PR, RF, 20 mm, multiple sub-parallel defects, no apparent displacement, rubbled host rock likely from drilling, sporadic Fe SN	
				107		+				106.90: J, 5°, CN, PR, RF 107.13: J, 5°, CN, PR, RF 107.33: J, 5°, CN, PR, RF	
						+		SW			
				108		+				107.86: J, 5°, CN, PR, RF	
		100	100			+					
				109		+				108.87: J, 20°, CN, PR, RF 109.08: J, 20°, CN, PR, RF	
		100	100			+					
					110.00	+				109.70: J, 20°, CN, PR, RF	
				110							

Comments

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	13 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL -2 L -6 M -20 H -60 VH -200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
PQ3		100	100	110	768.26		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey, pink and white, fine to coarse grain, crystalline, up to 300 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter, moderately altered.	SW		110.18: J, 5°, CN, PR, RF 110.23: J, 10°, CN, PR, RF	
					110.75						
					767.51		Pale yellow green, moderate silica alteration.			110.67: J, 5°, CN, PR, RF 110.70: J, 30°, CN, PR, RF	
					110.95						
				111	767.31						
										111.77: J, 5°, CN, PR, RF	
				112						112.32: J, 5°, CN, PR, RF 112.34: J, 20°, CN, PR, RF	
		100	100							112.62: J, 5°, CN, PR, RF	
				113						113.08: J, 20°, CN, PR, RF	
										113.43: J, 30°, CN, PR, RF	
										113.75: J, 5°, CN, PR, RF	
				114						113.98: J, 70°, CN, PR, RF	
										114.21: J, 10°, CN, PR, RF	
										114.32-114.43: J, 50 - 55°, wh mi SN, UN, RF, possible crushed seam, rubbled by drilling	
				115						114.86: J, 5°, CN, PR, RF	
										115.20: J, 30°, CN, PR, RF	
		100	81							115.65: J, 5°, CN, PR, RF	
				116						116.16: J, 40°, CN, PR, RF	
										116.19-116.63: FZ, gn alt, IR, RF, multiple defects, various angles, 10-30mm spacing, highly altered	
				117						117.10-117.33: S, 85°, wh mi, PR, 1-5mm vertical displacement 117.28: J, 60°, breacciated fractured zone, 2 mm 117.38: J, 5°, CN, PR, RF	
										117.70: J, 90°, CT, PR, RF, <1 mm 117.74: J, 20°, CT, PR, RF, <1 mm 117.84: J, 70°, CT, PR, RF, <1 mm	
				118							
		100	81							117.73-119.13: FZ, 70 - 90°, UN, likely shear zone with rubbled base of zone, generally closed to healed 118.50: J, 70°, CN, PR, RF 118.80: J, 20°, CN, PR, RF	
				119				FR		119.00-119.13: FZ, RF, multiple defects, 0-10mm spacing, further rubbled by drilling	
				120	120.00						

Comments

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	14 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear	Logged:	AAB/DD
			LF160		
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description			Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M .20 H .60 VH .200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
PQ3		100	81	120	758.27		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey, pink and white, fine to coarse grain, crystalline, up to 300 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter, moderately altered.	FR			
		100	100	121							
		100	100	122							
		100	100	123						123.73: J, 60°, CN, PR, RF	
		100	94	124						124.28: J, 50°, CN, PR, RF	
		100	100	125						125.73: J, 60°, CN, PR, RF	
				126						126.25: J, 5°, CN, PR, RF 126.36: J, 15°, CN, PR, RF 126.50: J, 60°, CT, PR, RF, <1 mm	
				127						126.91: J, 20°, CT, PR, RF, <1 mm	
				128						127.47: J, 30°, CN, PR, RF	
				129						128.25: J, 70°, CN, PR, RF 128.63: J, 60°, CN, PR, RF 128.63: FZ, 60°, fractured zone 128.65: J, 60°, CN, PR, RF	
		100	100	130	130.00					129.20-129.33: FZ, IR, RF, rubbled by drilling, 0-10mm spacing	

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	15 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description			Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)
PQ3		100	100	130	748.29		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey, pink and white, fine to coarse grain, crystalline, up to 300 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter, moderately altered.	FR	VL -2 L -6 M -20 H -60 VH -200 EH	130.06: J, 5°, CN, PR, RF 130.38: J, 5°, CN, PR, RF	10 30 100 300 1000 3000
				131						131.29: J, 10°, CN, PR, RF	
				132						131.83: J, 15°, CN, PR, RF	
		100	97	133				SW		133.32: J, 60°, CN, PR, RF	
				134							
				135						134.93: J, 20°, CN, PR, RF	
				136				FR			
		100	100	137						137.70: J, 70°, closed spaced	
				138						137.96: J, 70°	
		100	100	139						139.47: J, 10°, CN, PR, RF	
				140	140.00						

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	16 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear	Logged:	AAB/DD
		Inclination:	LF160 -87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)
PQ3		100	100	140	738.30		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey, pink and white, fine to coarse grain, crystalline, up to 300 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter, moderately altered.	FR		140.10: J, 85°, CN, PR, RF	
				141						141.63: J, 20°, CN, PR, RF	
				142	142.40						
		100	100		735.91		Pale green grey, moderately altered.			142.54: J, 5°, CN, PR, RF	
				143	143.45						
					734.86		White grey and pink.			143.63: J, 5°, CN, PR, RF	
				144							
				145							
		100	100								
				146							
				147	147.20						
					731.11		Fine grained.			147.25: J, 45°, 2 mm 147.26: J, 45°, 10 mm	
				148							
		100	100							148.40: J, 5°, CN, PR, RF	
				149						148.75: J, 10°, CN, PR, RF 148.75: J, 15°, CN, PR, RF	
										149.05-149.50: S, 80 - 90°, pl gn-wh mi, UN, 1-2mm width, 1-3mm vertical displacement, 149.20-149.75: S, 80 - 90°, pl gn-wh mi, UN, 1-2mm width, 1-3mm vertical displacement,	
				150	150.00						

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	17 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M .20 H .60 VH .200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
PQ3		100	100	150	728.32		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey and white highly altered fine to coarse grain, crystalline, up to 300 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter.	FR		150.56: J, 30°, CN, PR, RF 150.92: J, 20°, CN, PR, RF	
		100	100	151							
				152						152.11: J, 70°, CN, PR, RF	
				153	153.39						
					724.93		BASALT: fine grained, grey to dark grey, crystalline, massive, rare phenocrysts to 2 mm diameter.			153.39: J, 45°, CT, PR, RF, <1 mm	
		100	44	154	154.00 724.32		NO CORE 0.90m (154.00-154.90)			154.12: J, 20°, CN, PR, RF	
					154.90						
HQ3		100	48	155	723.42		BASALT: fine grained, grey to dark grey, crystalline, massive, rare phenocrysts to 2 mm diameter.	SW			
		100	95	156						155.61: J, 60°, PR, RF 155.62: J, 20°, CU, RF 155.71: J, 70°, PR, RF 155.75: J, 5°, PR, RF 155.85: J, 70°, CN, PR, RF	
										156.34: J, 30°, CN, PR, RF 156.54: J, 20°, CN, PR, RF 156.61: J, 85°, CN, PR, RF 156.73: J, 0°, CN, PR, RF 156.83: J, 70°, CN, PR, RF	
		100	99	157						157.12: J, 45°, CN, PR, RF 157.18: J, 45°, CN, PR, RF 157.32: J, 20°, CN, PR, RF 157.45: J, 45°, CN, PR, RF 157.48: J, 45°, CN, PR, RF 157.53: J, 30°, CN, PR, RF 157.78: J, 70°, CN, PR, RF	
				158						158.07: J, 45°, CN, PR, RF	
				159	159.50						
					718.83						
		100	100	160						159.76: J, 70°, CN, CU, RF	

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	18 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description			Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)
HQ3		100	100	160			MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey and white highly altered fine to coarse grain, crystalline, up to 300 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter.	SW	VL .2 L .6 M .20 H .60 VH .200 EH		10 30 100 300 1000 3000
				161							
				162							
		100	100	163							
				164						164.38: J, 45°, CN, PR, RF 164.43: J, 5°, CN, PR, RF	
				165						164.71: J, 45°, CN, PR, RF 164.80: J, 45°, CN, PR, RF	
				166						165.52: J, 10°, CN, PR, RF	
					166.50 711.84		Pale yellow green and grey, highly altread, pale green yellow alteration.			166.51: J, 10°, CN, PR, RF	
		100	100	167							
				168						168.10: J, 5°, CN, PR, RF	
				169						168.61: J, 5°, CN, PR, RF	
		100	100							169.43: J, 60°, CN, PR, RF	
				170	170.00						

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	19 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL -2 L -6 M -20 H -60 VH -200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	170	708.34		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey and white highly altered fine to coarse grain, crystalline, up to 300 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter.	SW		170.83: J, 20°, CN, PR, RF	
				171						171.47: J, 15°, CN, PR, RF 171.72: J, 5°, CN, PR, RF	
				172						172.17: J, 45°, PR, RF 172.17: J, 45°, CN, PR, RF	
		100	100	173							
				174							
				175							
				176	176.00 702.35		BASALT: fine grained, grey, massive.			175.87: J, 60°, CN, PR, RF 176.06: J, 60°, CN, PR, RF 176.20: J, 15°, CN, PR, RF 176.62: J, 20°, CN, PR, RF	
		100	100	177	177.05 701.30		LAMPROPHYRE: fine to medium grained, grey to dark grey, porphyritic, massive, phenocrysts to 2 mm diameter.			177.03: J, 15°, CN, PR, RF 177.32: J, 10°, CN, PR, RF 177.47: J, 10°, CN, PR, RF 177.78: J, 45°, CN, PR, RF 177.80: J, 10°, CN, PR, RF	
				178						178.18: J, 40°, CN, PR, RF 178.40: J, 45°, CN, PR, RF	
		100	100	179						178.82: J, 30°, CN, PR, RF	
					179.75 698.61						
				180							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	20 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear	Logged:	AAB/DD
			LF160		
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)
HQ3		100	100	180			MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey and white highly altered fine to coarse grain, crystalline, up to 200 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter.	SW	VL -2 L -6 M -20 H -60 VH -200 EH	179.93: J, 20°, CN, PR, RF 180.14: J, 15°, CN, PR, RF 180.44: J, 30°, CN, PR, RF	10 30 100 300 1000 3000
				181							
					181.65						
					696.71		BASALT: fine grained, grey and grey-green, crystalline, 400mm glassy chilled margin adjacent to contact.				
		100	85	182							
				183						183.11: J, 30°, CN, PR, RF 183.14: J, 30°, CN, PR, RF 183.25: J, 30°, CN, PR, RF 183.29: J, 5°, CN, PR, RF 183.34: J, 30°, broken CN, PR, RF 183.38: J, 5°, CN, PR, RF 183.40: J, 15°, CN, PR, RF 183.59: J, 10°, CN, PR, RF 183.63: J, 15°, CN, PR, RF 183.66: J, 30°, CN, PR, RF 183.77: J, 30°, CN, PR, RF	
				184							
		100	83	185						185.10: J, 30°, CN, PR, RF 185.18: J, 20°, CN, PR, RF 185.42: J, 30°, CT, PR, RF 185.43: J, 20°, CN, PR, RF	
				186						185.87: J, 20°, CN, PR, RF 185.89: J, 70°, CN, PR, RF 185.90: J, 5°, CN, PR, RF 186.00: J, 70°, CN, PR, RF 186.00-186.27: SZ, 70°, sheared zone, oxidised, IR, 3 mm, significant defect 186.15: J, 5°, CT, PR, RF 186.21: J, 45°, CT, PR, RF 186.50: J, 60°	
					186.70						
					691.67		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey and white highly altered fine to coarse grain, crystalline, up to 200 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter.				
				187						186.52: J, 20°, CN, PR, RF 186.70: J, 20°, 10 mm 186.75: J, 10°, CN, PR, RF 187.23: J, 5°, CN, PR, RF 187.52: J, 10°, CN, PR, RF	
				188							
		100	100		*188.45*						
					689.92		BASALT: fine grained, grey-green, crystalline, massive.				
				189						188.88: J, 30°, CN, PR, RF 189.03: J, 10°, CN, PR, RF 189.23: J, 10°, CN, PR, RF 189.34: J, 10°, CN, PR, RF 189.40: J, 10°, CN, PR, RF 189.46: J, 10°, CN, PR, RF 189.63: J, 10°, CN, PR, RF 189.72: J, 20°, CN, PR, RF 189.80: J, 20°, CN, PR, RF	
		100	95	190							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	21 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M 2 H 6 VH 20 EH 200	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	95	190			BASALT: fine grained, grey-green, crystalline, massive.	SW		190.37: J, 20°, CN, PR, RF 190.78: J, 20°, CN, PR, RF 191.30: J, 20°, CN, PR, RF 191.31-191.40: J, 70°, CN, PR, RF 191.02-191.96: S, 80 - 90°, pl gn-wh mi, IR, 8 mm, 0-30mm displacement, multiple defects bifurcating from major shear plane with varying amounts of displacemenet 191.64: J, 15°, CN, PR, RF	
				191							
				192			191.60 - 192.00m : highly altrered granite, dark grey and white			192.32: J, 5°, CN, PR, RF 192.43: J, 5°, CN, PR, RF 192.49: J, 5°, CN, PR, RF 192.60: J, 5°, CN, PR, RF 192.80: J, 10°, CN, PR, RF	
		100	98	193						193.10: J, 5°, CN, PR, RF 192.94-193.75: J/hJ, 70 - 90°, wh mi, ST, 5 mm 193.50: J, 20°, CN, PR, RF	
				194	194.20					194.07: J, 15°, CN, PR, RF	
					684.18		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive: granite is pale grey, pink and white highly altered fine to coarse grain, crystalline, up to 200 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter.			194.60: J, 15°, CN, PR, RF 194.66: J, 15°, CN, PR, RF	
				195						195.25: J, 10°, CN, PR, RF	
		100	100	196						196.48: J, 5°, CN, PR, RF	
				197						196.92-197.04: CZ, 90°, IR, brecciated/crushed area of sheared zone 196.45-197.63: SZ, 85 - 90°, UN, 10 mm, estimated 50mm vertical displacement, some shearing and brecciated material along shear surface, healed, pl gn-wh mi 197.44-197.49: J, 60°, CN, ST 197.48: J, 10°, CN, PR, RF 197.65: J, 10°, CN, PR, RF	
				198						197.45-198.63: J, 60 - 90°, wh mi CT, ST 198.37: J, 15°, CN, PR, RF 198.70: J, 30°, CN, PR, RF	
		100	90	199						199.19: J, 5°, CN, PR, RF 199.22: J, 5°, CN, PR, RF	
		100	100	200	200.00					199.52: J, 30°, CT, PR, RF 199.52: J, 90°, CN, PR, RF 199.65: J, 30°, CT, PR, RF	

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	22 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear	Logged:	AAB/DD
			LF160		
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M .20 H .60 VH .200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	200	678.38		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey, pink and white highly altered fine to coarse grain, crystalline, up to 200 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter.	SW			
					200.50						
					677.88		BASALT: fine grained, grey to green grey, crystalline, massive.			200.80-201.70: pilot hole for overcoring test	
		100	100	201						201.14: J, 60°, CN, PR, RF	
					201.73						
					676.66		METAGRANITE: medium to coarse grained, grey, white and pink, crystalline, massive, highly altered granite, pink alteration, fabric shows metamorphic crystal reorientation.			201.91: J, 70°, CT, PR, RF, <1 mm	
		100	94	202						202.29: J, 20°, CN, PR, RF	
										202.51: J, 45°, CN, PR, RF 202.52: J, 90°, CN, PR, RF	
				203						203.25: J, 20°, CN, PR, RF	
										203.66: J, 60°, CN, PR, RF	
				204						203.84: J, 45°, CN, PR, RF 203.92: J, 50°, CN, PR, RF 203.95: J, 5°, CN, PR, RF	
										204.53: J, 30°, CN, PR, RF	
		100	100	205							
					205.25						
					205.40		NO CORE 0.15m (205.25-205.40)				
					672.99		LAMPROPHYRE: fine grained, dark grey, crystalline, massive, trace phenocrysts to 2 mm diameter.	FR		205.40: J, 60°, CN, PR, RF 205.43: J, 60°, CN, PR, RF	
				206							
		94	94				206.40 - 206.75m : granite inclusion			206.30: J, 70°, CN, IR, RF 206.45: J, 60°, CN, PR, RF	
				207						206.79: J, 30°, CN, PR, RF	
					207.50						
					207.70		Granite inclusion up to 200 mm.			207.51: J, 5°, CN, PR, RF	
					208.00						
				208	670.40		METAGRANITE: medium to coarse grained, grey, white and pink, crystalline, massive, highly altered granite, pink alteration, fabric shows metamorphic crystal reorientation.				
		100	100	209						209.30: J, 20°, CN, PR, RF	
				210	*210.00*					209.84: J, 60°, altered halo	

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	23 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)
HQ3		100	100	210	668.40		METAGRANITE: medium to coarse grained, grey, white and pink, crystalline, massive, highly altered granite, pink alteration, fabric shows metamorphic crystal reorientation.	FR	VL L M H VH EH	209.96: J, 20°, CN, PR, RF	
					210.25						
					668.15		BASALT: fine grained, dark grey, massive, numerous healed microfractures.			210.60: J, 45°, CN, PR, RF	
					210.95						
		100	100	211	667.45		METAGRANITE: medium to coarse grained, grey, white and pink, crystalline, massive.				
				212						211.85: J, 20°, CN, PR, RF	
					212.95						
				213	665.45		LAMPROPHYRE: fine grained, pale grey to grey, porphyritic, massive, phenocrysts to 2 mm diameter.				
					213.45						
					664.95		METAGRANITE: medium to coarse grained, grey, white and pink, crystalline, massive, highly altered granite, pink alteration, fabric shows metamorphic crystal reorientation.				
				214						214.35: J, 30°, CN, PR, RF	
		100	100	215							
				216							
				217						217.47: J, 10°, CN, PR, RF	
				218							
		100	100	219							
					219.15					218.97: J, 20°, CT, PR, RF	
					659.26		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, dark grey, crystalline, massive; granite is pale grey, pink and white highly altered fine to coarse grain, crystalline, up to 200 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter.			219.24: J, 20°, CN, PR, RF	
		100	100	220							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	24 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear	Logged:	AAB/DD
		Inclination:	LF160 -87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M .20 H .60 VH .200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	220			MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, dark grey, crystalline, massive; granite is pale grey, pink and white highly altered fine to coarse grain, crystalline, up to 200 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter.	FR		220.22: J, 20°, CN, PR, RF	
				221						221.27: J, 30°, CN, PR, RF	
				222						222.35: J, 20°, CN, PR, RF	
		100	100	223							
				224							
				225						225.12: J, 20°, CN, PR, RF	
		100	100	226							
				227						227.35: J, 60°, CN, PR, RF	
				228						228.00: J, 70°, CN, PR, RF	
										228.52: J, 30°, CN, PR, RF	
		100	100	229						228.95: J, 20°, CN, PR, RF 229.16: J, 20°, CT, PR, RF, <1 mm	
				230						229.63: J, 10°, CN, PR, RF	

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	25 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description			Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL -2 L -6 M -20 H -60 VH -200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	230			MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, dark grey, crystalline, massive; granite is pale grey, pink and white highly altered fine to coarse grain, crystalline, up to 200 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter.	FR		230.28: J, 20°, CN, PR, RF	
				231						230.87: J, 5°, CN, PR, RF	
										231.28: J, 5°, CN, PR, RF	
										231.55: J, 20°, CN, PR, RF	
				232	232.07						
					646.36		LAMPROPHYRE: fine to medium grained, dark grey, porphyritic, massive, phenocrysts to 2 mm diameter.			232.29: J, 5°, CN, PR, RF	
		100	100	233						233.50: J, 60°, CT, PR, RF, <1 mm	
				234						234.42: J, 5°, CN, PR, RF	
										234.56: J, 5°, CN, PR, RF	
				235							
				236						235.75: J, 5°, CN, PR, RF	
		100	100		236.70						
					641.73		METAGRANITE: medium to coarse grained, dark grey, white and pink, crystalline, massive, highly altered granite, pink alteration, fabric shows metamorphic crystal reorientation.				
				237						237.50: J, 10°, CN, PR, RF	
					238.00						
				238	640.44		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, dark grey, porphyritic, massive; granite is pale grey, pink and white highly altered fine to coarse grain, crystalline, up to 200 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter.			238.44: J, 5°, CN, PR, RF	
					238.47					238.50: J, 10°, CN, PR, RF	
					639.97					238.65: J, 5°, CN, UN, RF	
		100	97	239			METAGRANITE: medium to coarse grained, white, grey and pink, crystalline, massive, with basalt inclusion up to 100 mm in diameter, highly altered granite, pink alteration, fabric shows metamorphic crystal reorientation.			239.05: J, 5°, CN, PR, RF	
				240							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	26 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)
HQ3		100	97	240	637.64		METAGRANITE: medium to coarse grained, white, grey and pink, crystalline, massive, with basalt inclusion up to 100 mm in diameter, highly altered granite, pink alteration, fabric shows metamorphic crystal reorientation.	FR	VL L M H VH EH	240.14: J, 20°, CN, PR, RF 240.21: J, 10°, CN, PR, RF	10 30 100 300 1000 3000
					240.80						
				241			LAMPROPHYRE: fine to medium grained, dark grey, porphyritic, massive, phenocrysts to 2 mm diameter.			240.62: J, 5°, CN, PR, RF 240.63: J, 45°, CN, PR, RF	
										241.22: J, 20°, CN, PR, RF 241.22: J, 45°, CN, PR, RF 241.46: J, 20°, CN, PR, RF 241.47: J, 20°, CN, PR, RF 241.48: J, 20°, CN, PR, RF 241.53: J, 20°, CN, PR, RF 241.55: J, 20°, CN, PR, RF 241.56: J, 30°, CN, PR, RF 241.70: J, 20°, CN, PR, RF 241.80: J, 20°, CN, PR, RF 241.71-242.00: J, 80 - 90°, wh mi CT, UN, RF 241.90: J, 20°, CN, PR, RF 242.40: J, 10°, CN, PR, RF	
				242	242.10						
		100	73		636.34		GRANITE: fine to medium grained, dark grey and white, crystalline, massive, slightly to moderately altered about healed defects.				
				243							
					243.85						
				244	634.59		LAMPROPHYRE: fine to medium grained, dark grey, crystalline, massive, with healed sub-vertical jointing, phenocrysts to 2 mm diameter.				
		100	100	245						244.77: J, 45°, CN, PR, RF	
										245.66: J, 45°, CN, PR, RF	
				246						245.88: J, 10°, CN, PR, RF	
		100	100	247							
				248							
				249						249.00-249.90: pilot hole for overcoring test	
		100	100								
		100	100	250							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	27 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear	Logged:	AAB/DD
			LF160		
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS (VL .2, L .6, M .20, H .60, VH .200, EH .200)	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) (10, 30, 100, 300, 1000, 3000)
HQ3		100	100	250	250.26			FR		250.19: J, 20°, CN, PR, SM	
					250.40		NO CORE 0.14m (250.26-250.40)				
					628.05		LAMPROPHYRE: fine to medium grained, dark grey, crystalline, massive, with healed sub-vertical jointing, phenocrysts to 2 mm diameter.	FR		250.80: J, 20°, CN, PR, RF	
				251	251.20					251.00: J, 20°, CN, IR, RF 251.17: J, 10°, CN, PR, SM	
		100	100		627.25		GRANITE: medium to coarse grained, dark grey and white, porphyritic, massive.			251.38: J, 5°, CN, PR, SM	
				252	252.80						
					625.66		LAMPROPHYRE: fine to coarse grained, dark grey, porphyritic, massive, phenocrysts to 2 mm diameter.				
				253	253.45					253.59: J, 10°, CN, PR, SM	
					625.01		GRANITE: medium to coarse grained, dark grey and white, porphyritic, massive.				
					253.75						
					624.71		LAMPROPHYRE: fine to coarse grained, dark grey, porphyritic, massive, phenocrysts to 2 mm diameter.				
				254	254.09						
		100	100		624.37		GRANITE: medium to coarse grained, dark grey and white, crystalline, massive.			254.62: J, 10°, CN, IR, RF	
				255	255.80					255.13: J, 10°, CN, PR, SM	
					622.66		LAMPROPHYRE: fine to coarse grained, dark grey, crystalline, massive, phenocrysts to 2 mm diameter, slightly altered about healed defects.			255.83: J, 30°, CN, PR, SM 255.90: J, 45°, CT, PR, SM	
				256	256.80					256.42: J, 10°, CN, PR, SM	
					621.66		GRANITE: medium to coarse grained, dark grey and white, crystalline, massive.				
		100	97	257	257.63					257.50: J, 10°, CN, IR, RF	
					257.80		BASALT: fine grained, dark grey, massive.				
					620.66		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is medium to coarse grained, dark grey, crystalline, massive; granite is pale grey, pink and white highly altered fine to coarse grain, crystalline, up to 200 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter.				
				258							
				259							
		100	100							259.77: J, 20°, CN, PR, SM	
				260							

Comments

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	28 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL -2 L -6 M -20 H -60 VH -200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	260			MIXED LAMPROPHYRE AND GRANITE: lamprophyre is medium to coarse grained, dark grey, crystalline, massive; granite is pale grey, pink and white highly altered fine to coarse grain, crystalline, up to 200 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter.	FR			
				261							
				262	262.40						
					616.07		LAMPROPHYRE: fine to medium grained, dark grey, crystalline, massive, fine white phenocrysts.			262.41: J, 10°, CN, PR, SM	
		100	100	263							
				264							
				265	265.54						
					612.93		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is grey to white and dark grey, medium to coarse grained, crystalline, massive.			265.67: J, 20°, CN, PR, SM	
		100	100	266							
				267						267.33: J, 5°, CN, PR, SM 267.57: J, 10°, CN, PR, SM	
				268							
		100	100	269							
				270							

Comments

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	29 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M .20 H .60 VH .200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	270			MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is grey to white and dark grey, medium to coarse grained, crystalline, massive.	FR			
		100	100	271							
		100	100	272						272.88: J, 30°, CN, UN, SM	
		100	100	273							
		100	100	274							
		100	100	275							
		100	100	276	276.17					275.91: J, 30°, CN, PR, SM	
		100	100	277	602.32		LAMPROPHYRE: fine grained, black, crystalline, massive, granite inclusion up to 100 mm diameter, basalt dyke contacts dipping at 75 degrees.				
		100	100	278	277.50 277.63		Granite rock inclusion.			277.87: J, 20°, CN, PR, SM	
		100	100	279	278.75 278.88		Granite rock inclusion.			279.39: J, 30°, CN, UN, RF	
		100	100	280							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	30 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL -2 L -6 M -20 H -60 VH -200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	280			LAMPROPHYRE: fine grained, black, crystalline, massive, granite inclusion up to 100 mm diameter, basalt dyke contacts dipping at 75 degrees.	FR		280.08: J, 20°, CN, ST, SM 280.30: J, 30°, CN, PR, SM 280.73: J, 30°, CN, UN, SM 280.85: J, 30°, CN, PR, SM	
				281							
				282							
		100	100	283						282.90: J, 60°, CN, PR, SM	
				284							
				285						284.94: J, 10°, CN, PR, SM	
				286						286.27: J, 10°, CN, PR, RF	
				287						286.87: J, 30°, CN, ST, RF	
		100	100		287.22 591.28		GRANITE: medium to coarse grained, pale grey and white, crystalline, massive, some dolerite and basaltic dykes up 100 mm thick, slightly altered about healed defects.				
				288						288.09: J, 35°, CN, ST, RF	
					288.30 590.21		LAMPROPHYRE: fine grained, black, crystalline, massive, dipping at 65 degrees, slightly altered about healed defects and contacts.			288.52: J, 30°, CN, ST, RF 288.64: J, 20°, CN, ST, RF 288.74: J, 25°, CN, ST, RF	
		100	100	289							
				290						289.78: J, 0°, CN, PR, RF	

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	31 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M 2 H 6 VH 20 EH 200	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	290			LAMPROPHYRE: fine grained, black, crystalline, massive, dipping at 65 degrees, slightly altered about healed defects and contacts.	FR			
				291	291.33						
					587.18		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine grained, pale grey to dark grey, porphyritic, massive; granite is medium to coarse grained, pale grey and white, crystalline, massive.			291.44: J, 20°, CN, IR, RF	
		100	100	292						292.32: J, 20°, CN, UN, RF	
				293							
					294.00					293.74: J, 20°, CN, UN, RF	
				294	584.51		LAMPROPHYRE: fine grained, dark grey, crystalline, massive, granite inclusion up to 100 mm diameter.			294.02: J, 20°, CN, UN, RF	
										294.56: J, 20°, CN, ST, RF	
		100	100	295						294.95: J, 25°, CN, PR, RF	
										295.20: J, 20°, CN, PR, SM	
				296							
					296.97					296.47: J, 30°, SN, PR, SM	
				297	581.55		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey, pink and white highly altered, fine to coarse grained, crystalline, up to 600 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter.			296.78: J, 20°, CN, ST, RF	
				298							
		100	99	299						298.72: J, 30°, CN, PR, SM	
										299.64: J, 15°, CN, UN, RF	
				300							

Comments

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	32 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M .20 H .60 VH .200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	99	300			MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey, pink and white highly altered, fine to coarse grained, crystalline, up to 600 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter.	FR			
		100	100	301						301.50-301.75: SA301.5-301.75 and 303.2-303.55m	
				302						302.60-306.00: SA? overlaps with 303.2-303.55	
				303						303.44: J, 40°, CN, ST, RF	
										303.77: J, 30°, ST	
				304				SW		303.79: J, 40°, ST, RF	
		100	81							304.60: J, 30°, CN, ST, RF	
				305						304.84: J, 90°, CN, UN	
		100	100	306						305.80: J, 50°, CN, ST, RF	
										306.60: J, 60°, VN, UN, RF	
				307	307.00 571.53		LAMPROPHYRE: fine grained, dark grey, crystalline, massive, phenocrysts to 2 mm diameter.			306.80: J, 20°, CN, ST, RF	
		100	46	308						307.54: J, 40°, SN, ST, RF	
										307.92-308.38: J, 90°, sub vertical joint in moderately altered rock, joint disturbed by drilling with multiple perpendicular drill breaks CN, UN, RF	
										308.37: J, 15°, CN, ST, RF	
										308.48: J, 70°, SN, ST, RF	
				309						308.75-308.90: J, 85°, subvertical joint VN, PR, RF	
										308.60-309.15: J, 80°, wh-gn mi VN, UN, RF	
										308.95: J, 0°, CN, UN, RF	
										308.97: J, 65°, CT, CU, RF	
										308.98: J, 70°, VN, UN, RF	
										309.05: J, 90°, VN, UN, RF	
										309.06: J, 80°, VN, UN, RF	
										309.25: J, 50°, CN, PR, RF	
										309.47: J, 45°, CT, PR, RF	
		100	83	310						309.61: J, 40°, SN, UN, RF	

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Comments

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	33 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M 2 H 6 VH 20 EH 60	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	83	310			LAMPROPHYRE: fine grained, dark grey, crystalline, massive, phenocrysts to 2 mm diameter.	SW		309.76: J, 40°, CN, PR, RF 309.97: J, 60°, CN, PR, RF	
				311						310.39: J, 20°, CN, UN, RF 310.51: Jsx2, 10°, CN, PR, RF, 120 mm	
										310.80: J, 30°, CN, ST, RF	
					311.35					311.20: J, 55°, CN, ST, RF	
					567.19		Fine to medium grained, dark grey and green grey.				
				312						311.90: J, 65°, CN, UN, RF	
										312.42: J, 5°, CN, UN, RF 312.46: J, 65°, CN, ST, RF 312.54: J, 30°, CN, UN	
		100	91	313						313.22: J, 45°, CN, PR, RF	
										313.82: J, 10°, CN, ST, RF	
				314						314.05: J, 40°, CN, ST, RF	
										314.29: J, 35°, CN, UN, RF 314.39: Jsx7, 30°, CN, ST, RF, 120 mm	
				315						315.15: J, 40°, CN, PR, SM	
										315.35: J, 5°, CN, PR, SM	
										315.56: J, 0°, CN, UN, RF	
										315.77: J, 45°, SN, ST, SM 315.88: J, 80°, SN, ST, RF	
				316	316.25					316.19: J, 30°, CN, UN, RF	
					562.29		BASALT: fine grained, black, crystalline, massive, dipping at 60 degrees.				
					316.55					316.45: J, 40°, CN, ST, RF	
					561.99		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey, pink and white highly altered fine to coarse grain, crystalline, up to 600 mm thickness, pale grey alteration throughout, phenocrysts to 2 mm diameter.				
		100	98	317							
				318	318.25					318.20: J, 50°, CN, UN, RF	
					560.30		BASALT: fine grained, black, crystalline, massive, basalt dyke at bottom contact, contact dipping at 75 degrees.			318.34: J, 40°, CN, ST, RF 318.50: J, 45°, CN, ST, RF	
		100	75	319							
				320	320.00					319.77: J, 60°, CN, ST, RF	

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	34 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M 2 H 6 VH 20 EH 60 200	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	75	320	558.55		BASALT: fine grained, black, crystalline, massive, basalt dyke at bottom contact, contact dipping at 75 degrees.	SW		320.14: J, 35°, CN, ST, RF	
					320.22						
					558.33		LAMPROPHYRE: fine to medium grained, dark grey, porphyritic, massive, phenocrysts to 2 mm diameter.			320.43: J, 75°, infilled with basalt intrusion SN, PR, RF 320.53: J, 75°, CN, ST, RF 320.57: J, 40°, SN, PR, RF 320.66: J, 35°, CN, ST, RF 320.67: J, 50°, VN, PR, RF 320.77: J, 0°, VN, PR, SM 320.85: J, 75°, CN, ST, RF	
					321.00						
				321	557.55		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey, pink and white highly altered fine to coarse grain, crystalline, up to 600 mm thickness, pale green grey alteration throughout, phenocrysts to 2 mm diameter, slight altered between 320.22-320.9 m.			321.33: J, 65°, CN, IR, RF 321.45: J, 0°, SN, PR, RF	
		100	96	322						322.68: J, 30°, CN, PR, RF	
				323						323.03: J, 50°, CN, ST, RF 323.22: J, 45°, CN, ST, RF	
										323.60: J, 60°, CN, PR, SM 323.71: J, 50°, CN, IR, RF	
				324						324.42: J, 5°, CN, ST, RF 324.58: J, 10°, CN, PR, RF	
				325						324.72-325.00: CS, 0° 325.03: J, 60°, CT, PR, SM 325.22: J, 5°, SN, ST, RF	
		100	73	326				MW - SW		325.47: J, 0°, SN, ST, RF 325.57: J, 10°, SN, ST, RF 325.78: J, 20°, CN, ST, RF 326.00: J, 30°, SN, ST, RF 326.00-326.18: J, 85°, CN, UN, RF 326.13: J, 5°, CN, UN, RF 326.10-326.18: J, 40 - 60°, CN, PR, SM	
				327						326.56: J, 45°, CT, PR, RF 326.67: J, 40°, VN, PR, RF 326.73: J, 50°, VN, UN, RF 326.80: J, 25°, CN, ST, RF 326.92: J, 30°, CN, ST, RF 327.28: J, 70°, CT, PR, SL	
										327.62: J, 15°, CN, ST, SM 327.71: J, 15°, CN, ST, RF 327.77: J, 20°, CN, UN, RF 327.98: J, 55°, SN, UN, SM	
				328						328.40: J, 30°, ST 328.50: J, 10°, CN, ST, RF 328.64: J, 25°, CN, ST, RF 328.76: J, 15°, CN, ST, RF 328.82: J, 60°, CN, ST, RF 328.83: Jsx2, 40°, SN, ST, RF, 30 mm 329.08: J, 30°, CN, PR, RF 329.14: J, 5°, CN, ST, RF	
		100	66	329							
				330							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	35 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear	Logged:	AAB/DD
			LF160		
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M 2 H 6 VH 20 EH 60 200	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	66	330			MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey, pink and white highly altered fine to coarse grain, crystalline, up to 600 mm thickness, pale green grey alteration throughout, phenocrysts to 2 mm diameter, slight altered between 320.22-320.9 m.	MW - SW		329.85-330.00: CS, 0° 330.13: J, 0°, CN, ST, RF 330.32: J, 40°, fine to medium gravel, PR, VR 330.44: J, 40°, CN, ST, VR 330.60: J, 30°, CN, ST, VR 330.60-330.80: CZ, 0°	
		100	7	331						331.00-331.20: CS, 0° 331.23: J, 0°, CN, PR, RF 331.30: J, 85°, CT, PR, RF 331.34: J, 35°, CT, ST, RF 331.40-331.60: CZ, 0° 331.50: J, 85°, CT, ST, RF 330.00-333.30: SZ, highly altered and crushed host rock, IR, VR, generally 10-30mm spacing, up to 30-100mm, significant defect 331.85: J, 70°, CT, ST, SM	
				332							
		100	38	333						332.75-332.80: CS, 0° 333.10: J, 75°, CN, ST, RF 333.18: J, 40°, CN, UN, RF 333.33: J, 70°, CN, UN, RF 333.50: J, 75°, CN, CU, RF 333.74: J, 70°, CN, UN, RF 333.90: J, 60°, CN, ST, RF 334.10: J, 70°, gravel and clay with up to 5mm aperture CT, UN, RF, 5 mm 334.00-334.35: CS, 0° 334.00-334.40: SZ, moderately altered and crushed host rock, IR, VR, generally 10-30mm spacing, significant defect 334.20: J, 75°, CN, ST, SM 334.50-334.60: SS, 60° 334.83: J, 65°, CN, ST, RF	
				334	334.50						
				335	544.07		LAMPROPHYRE: fine to medium grained, dark grey and dark brown black, porphyritic, massive, phenocrysts to 2 mm diameter.	SW		335.65: J, 55°, CN, ST, RF	
				336	336.20						
		100	100		542.37 336.60		BASALT: fine grained, black, crystalline, massive.				
				337	541.97		LAMPROPHYRE: fine to medium grained, dark grey and dark brown black, crystalline, massive, phenocrysts to 2 mm diameter.			336.62: J, 60°, VN, CU, RF 337.18: J, 50°, CN, ST, RF 337.41: J, 55°, CN, PR, RF	
		100	100	338							
				339							
		100	100	340							

Comments

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	36 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M .20 H .60 VH .200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	340			LAMPROPHYRE: fine to medium grained, dark grey and dark brown black, crystalline, massive, phenocrysts to 2 mm diameter.	SW		340.33: J, 15°, CN, ST, RF	
					340.50 538.08		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey, pink and white highly altered fine to coarse grain, crystalline, up to 600 mm thickness, pale green grey alteration throughout, phenocrysts to 2 mm diameter, slightly altered about healed defects.				
				341							
				342						342.12: J, 0°, CN, ST, RF 342.34: J, 15°, VN, UN, SM	
				343						343.29: J, 80°, SN, ST, SM	
		100	100	344						343.88: J, 10°, CN, ST, RF	
				345							
				346						346.00: J, 0°	
										346.65: J, 60°, CN, ST, RF	
		100	90	347						347.13: J, 70°, CN, ST, RF	
				348						348.50: J, 20°, CN, ST, RF 348.66: J, 30°, CN, ST, RF	
				349						349.00: J, 55°, VN, UN, SL 349.00: J, 55°, VN, UN, SL	
		100	80							349.45: J, 10°, CN, ST, RF 349.54: J, 80°, CN, ST, RF 349.55: J, 80°, CN, ST, RF	
				350							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	37 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M .20 H .60 VH .200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	80	350			MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey, pink and white highly altered fine to coarse grain, crystalline, up to 600 mm thickness, pale green grey alteration throughout, phenocrysts to 2 mm diameter, slightly altered about healed defects.	SW		349.94: J, 10°, SN, ST, RF 350.13: J, 50°, CN, CU, SM 350.29: J, 55°, CN, ST, SM 350.38: J, 40°, CN, PR, SM 350.50: J, 70°, CN, ST, RF 350.65: J, 75°, UN 350.75: J, 65°, VN, ST, RF	
				351						350.94: J, 70°, CT, UN, 20 mm 351.07: J, 45°, CT, PR, SM 351.13: J, 45°, VN, UN, SL 351.29: J, 60°, CN, ST, RF 351.35: J, 65°, CN, ST, RF	
				352						351.65: J, 80°, CN, UN, SL 351.68: J, 80°, CN, ST, RF 351.87: J, 80°, VN, UN, RF 351.93: J, 30°, CN, ST, RF 352.11: J, 50°, VN, ST, RF	
					353.00					352.58: J, 20°, CN, IR, RF 352.75: J, 70°, CN, IR, RF	
		100	100	353	525.59		LAMPROPHYRE: fine to medium grained, dark grey, crystalline, massive, phenocrysts to 2 mm diameter, slightly to moderately altered, mostly about healed defects.			353.65: J, 30°, CN, UN, RF 353.73: J, 80°, CN, ST, SM 353.80: J, 50°, VN, UN, SM	
				354						354.29: J, 35°, CN, IR, RF	
				355						355.05: J, 70°, SN, UN, RF 355.11: J, 70°, SN, UN, RF	
										355.43: J, 30°, CN, ST, RF	
				356						356.03: J, 30°, CN, ST, RF	
		100 100	95 97							356.35: J, 30°, CN, UN, RF	
				357						357.56: J, 30°, CN, ST, RF 357.64: J, 30°, CN, PR, RF 357.76: J, 5°, CN, ST, RF	
				358						358.16: J, CN, ST, RF	
										358.47: J, 45°, VN, PR, RF	
				359						359.14: J, 35°, PR, RF 359.36: J, 45°, CN, ST, RF 359.54: J, 45°, CN, ST, RF	
				360							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	38 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear	Logged:	AAB/DD
		Inclination:	LF160 -87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M 2 H 6 VH 20 EH 60 200	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3				360			LAMPROPHYRE: fine to medium grained, dark grey, crystalline, massive, phenocrysts to 2 mm diameter, slightly to moderately altered, mostly about healed defects.	SW		360.36: J, CN, ST, RF 360.47: J, CN, ST, RF 360.68: J, 70°, CN, ST, RF 360.75: J, 60°, CN, ST, RF	
				361							
				362						361.83: J, 45°, SN, ST, RF 362.12: J, 60°, SN, ST, RF	
		100	100		362.72					362.50: J, 75°, SN, ST, SM	
					515.89		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey, and white highly altered fine to coarse grain, crystalline, up to 600 mm thickness, phenocrysts to 2 mm diameter, slightly altered about healed defects.			362.80: J, 50°, CN, ST, RF	
				363							
				364						363.70: J, 30°, CN, PR, RF	
		100	100	365						364.61: J, 40°, CN, ST, RF	
				366							
				367							
				368							
		100	93							368.63: J, 5°, CN, ST, RF 368.82: J, CN, ST, RF 368.93: J, 70°, SN, PR, RF	
				369						369.37: J, 20°, CN, ST, RF	
		100	100	370							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	39 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)
HQ3		100	100	370			MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey, and white highly altered fine to coarse grain, crystalline, up to 600 mm thickness, phenocrysts to 2 mm diameter, slightly altered about healed defects.	SW	VL .2 L .6 M .20 H .60 VH .200 EH	371.51: J, 20°, CN, ST, RF 371.80: J, 20°, CN, ST, RF 372.20-372.30: Jsx2, 30°, CN, ST, RF, 130 mm 373.54: J, 20°, CN, ST, RF 374.63: J, 30°, SN, PR, RF 375.44: J, 30°, CN, ST, RF 375.65: J, 20°, CN, ST, RF 376.11: J, CN, UN, SM 377.62: J, 40°, CN, PR, SM 378.32: J, CN, ST, RF 378.57: J, 35°, CN, ST, RF 379.76: J, 20°, CN, ST, RF	10 30 100 300 1000 3000
		100	100	371							
		100	100	372							
		100	100	373							
		100	100	374							
		100	100	375							
		100	100	376							
		100	100	377							
		100	98	378							
				379							
				380							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	40 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear	Logged:	AAB/DD
			LF160		
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)
HQ3		100	98	380			MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey, and white highly altered fine to coarse grain, crystalline, up to 600 mm thickness, phenocrysts to 2 mm diameter, slightly altered about healed defects.	SW	VL .2 L .6 M .20 H .60 VH .200 EH	380.66: J, 20°, CN, ST, RF	10 30 100 300 1000 3000
		100	100	383							
		100	100	386						386.50: J, 45°, CN, PR, RF	
		100	100	389						387.09: J, 50°, CN, ST, RF 387.25: J, 60°, CN, ST, RF 389.31: J, 75°, CN, ST, RF 389.38: J, 45°, CN, ST, RF	
				390	390.00						

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	41 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear	Logged:	AAB/DD
		Inclination:	LF160 -87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M 2 H 6 VH 20 EH 200	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	390	488.64		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey, and white highly altered fine to coarse grain, crystalline, up to 600 mm thickness, phenocrysts to 2 mm diameter, slightly altered about healed defects.	SW		390.26: J, 30°, CN, ST, RF	
					390.40						
					488.25		BASALT: fine grained, black, crystalline, massive, slightly altered about healed defects and granodiorite dykes.				
				391						391.39: J, 40°, CN, ST, RF	
										391.83: J, CN, ST, RF	
				392						391.93: J, 90°, CN, PR, SM	
		100	69							392.18: J, 70°, CN, UN, SL	
										392.25: J, 90°, CN, UN, SL	
										392.49: J, 30°, CN, ST, RF	
										392.72: J, 70°, CN, ST, SM	
				393						392.84: J, 85°, SN, UN, SL	
					393.22					392.85: J, 90°, VN, UN, SL	
					485.43		GRANITE: fine to medium grained, pale grey, crystalline, massive, highly altered granite.	SW		392.94: J, 60°, VN, UN, SM	
										392.95: J, 85°, VN, UN, SM	
										392.95: J, 85°, VN, UN, SM	
				394						393.05: J, 40°, CN, ST, RF	
										393.08: J, 60°, CN, ST, SL	
										393.13: J, CN, ST, RF	
										393.41: J, 30°, CN, UN, RF	
										393.50: J, SN, PR, SL	
										393.54: J, 30°, CN, ST, RF	
					394.37					394.08: J, 5°, SN, PR, SM	
					484.28		BASALT: fine grained, black, crystalline, massive.	FR		394.23: J, 50°, SN, ST, SL	
										394.40: J, 50°, CN, ST, SL	
				395						394.63: J, 50°, CN, ST, SL	
		100	76							395.04: J, 60°, CN, ST, SL	
										395.12: J, 65°, possible DB CN, ST, SL	
					395.60					395.39: J, 40°, SN, UN, SL	
					483.05		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey, and white highly altered fine to coarse grain, crystalline, up to 600 mm thickness, pale green grey alteration throughout, phenocrysts to 2 mm diameter, moderately altered about healed defects.	SW		395.47: J, 30°, CN, ST, SL	
										395.62: J, 60°, VN, CU, SL	
				396						395.89: J, 65°, VN, ST, SL	
										395.94: J, 45°, CN, ST, RF	
										396.06: J, 45°, SN, PR, SM	
										396.15: J, 40°, CN, PR, SM	
				397						396.78: J, VN, ST, RF	
										397.03: J, 90°, VN, ST, SL	
										397.08: J, 30°, VN, ST, SM	
								SW - FR		397.14: J, 50°, CN, ST, RF	
										397.35: J, 70°, CN, PR, SM	
				398						397.93: J, 70°, CN, UN, SM	
		100	76							398.62: J, 60°, CN, UN, SM	
										398.72: J, CN, ST, RF	
				399						398.77: J, 75°, CN, ST, RF	
										399.45: J, 70°, SN, UN, SM	
										399.56: J, 50°, CN, UN, RF	
										399.69: J, 40°, CN, PR, SM	
		100	80	400						399.70: J, 90°, SN, PR, SM	

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	42 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)
HQ3		100	80	400			MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is pale grey, and white highly altered fine to coarse grain, crystalline, up to 600 mm thickness, pale green grey alteration throughout, phenocrysts to 2 mm diameter, moderately altered about healed defects.	SW - FR	VL .2 L .6 M .20 H .60 VH .200 EH	399.81: J, 30°, CN, PR, RF 399.90: J, 70°, SN, UN, SL 400.10: J, 50°, SN, UN, SL 400.72: J, 40°, CN, PR, SM 400.94: J, 40°, VN, UN, SM 401.01: J, 55°, CN, ST, RF 401.05: J, 50°, CN, ST, SM 401.17: J, 60°, CT, UN, SM 401.28: J, 45°, CN, UN, SM 401.43: J, 60°, CN, IR, RF 401.68: J, 45°, CN, PR, RF 402.16: J, 36°, CN, ST, RF 402.70: J, 60°, CN, ST, RF 402.85: J, 70°, CN, PR, SL	10 30 100 300 1000 3000
				401							
				402							
		100	68	403							
				404	404.30						
					474.36		LAMPROPHYRE: medium grained, grey-green, crystalline.			404.40: J, 75°, VN, UN, SM 404.60: J, 45°, CN, PR, RF 404.63: J, 40°, CN, PR, RF 404.82: J, CN, UN, RF 405.50: J, 65°, SN, UN, SM	
		100	53	405							
				406						405.91: J, 10°, CN, PR, SM 405.96: J, 50°, CN, ST, RF 406.06: J, 75°, VN, UN, SM 406.40: J, 60°, CN, PR, SM 406.55: J, 80°, SN, UN, SL 406.72: J, 20°, CN, ST, RF 406.86: J, SN, UN, SL	
				407						406.98: J, 70°, SN, PR, SM 407.07: J, 70°, CN, UN, SM 407.15: J, 20°, CN, ST, RF 407.44: J, 70°, CN, UN, RF 407.47: J, CN, PR, RF	
				408						407.68: J, 85°, VN, PR, SM 407.80: J, 10°, CN, PR, RF 407.90: J, 25°, CN, UN, RF 408.00: J, 10°, CN, UN, SM 408.10: J, 90°, SN, PR, SM 408.34: J, 80°, CN, UN, RF 408.44: J, 20°, CN, PR, RF	
		100	99	409						408.67: J, 40°, SN, UN, SM 408.68: J, 40°, VN, PR, SM 408.74: J, 40°, VN, UN, SM 408.90: J, 85°, CN, ST, SM 409.06: J, 60°, CN, UN, SM 409.12: J, 50°, VN, UN, SM 409.27: J, 10°, CN, ST, RF 409.31: J, 50°, VN, PR, SL 409.50: J, 45°, VN, ST, RF	
		100	90	410	410.00					409.69: J, 45°, VN, UN, RF	

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	43 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)
HQ3		100	90	410	468.67		BASALT: fine grained, black, crystalline, massive, trace white phenocrysts 2 mm diameter, slightly altered about phenocrysts.	FR	VL .2 L .6 M .20 H .60 VH .200 EH	409.94: J, 80°, VN, UN, SM	10 30 100 300 1000 3000
				411			411.42-411.83m: open vesicles up to 5mm diameter				
		100	63	412				HW HW - MW MW		411.95: J, 40°, CN, UN, RF 412.10: J, CN, ST, RF 412.20: J, 30°, CN, ST, RF 412.50: CS, 5°, CN, ST, RF, <15 mm 412.64: CS, 35°	
				413						412.95: CS 413.22: CS, 15°	
					413.80			SW - FR			
		100	93	414	464.88		LAMPROPHYRE: fine to medium grained, green-grey, crystalline, massive, phenocrysts to 2 mm diameter.			413.89: J, CN, IR, RF 414.13: J, 40°, CN, UN, RF 414.17: J, 40°, CN, UN, RF 414.62: J, 50°, CN, PR, SM 414.65: J, 35°, CN, PR, SM 414.94: J, 70°, CN, UN, SM	
				415							
				416						415.80: J, 10°, SN, PR, SM	
				417						416.87: J, 20°, VN, PR, SM	
					417.31					417.22: J, 30°, CN, PR, SM	
		100	75	418	461.37		BASALT: fine grained, grey-green, some dolerite dykes up to 300 mm thick, basalt alteration increasing.	SW - FR		417.63: J, 35°, CN, PR, RF 417.76: J, 30°, CN, PR, RF 417.80: J, 90°, CN, UN, RF 418.10: EW/J, 75°, SN, UN, SM, <5 mm 418.21: J, 45°, VN, ST, RF 418.58: J, 40°, CN, ST, SM 418.71: J, 40°, SN, ST, RF 418.80: J, 80°, CN, ST, RF 418.93: J, 80°, CN, ST, RF	
				419						419.31: J, 60°, CN, ST, SM 419.47: J, 35°, CN, ST, RF	
					419.65						
					459.04		BRECCIA: fine to medium grained, pale yellow grey, crystalline, massive, breciated gravelly clasts in fine granitic matrix.			419.64: J, 45°, CN, PR, SM 419.82: J, 10°, CN, ST, RF	
				420	420.00						

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	44 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL -2 L -6 M -20 H -60 VH -200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	75	420	458.69		BASALT: fine grained, grey-gren, crystalline, massive, highly altered, pale green grey alteration.	SW - FR		419.99: J, 20°, CN, PR, RF 420.16: J, 45°, CN, ST, RF 420.29: J, 30°, CN, PR, SM	
				421	421.15					420.59: J, 40°, possible DB SN, UN, RF 420.71: J, 85°, SN, ST, RF 420.76: J, possible DB VN, UN, SM 420.87: J, 80°, CN, PR, SM 420.99: J, 40°, CN, PR, SM 421.06: J, 40°, CN, ST, RF 421.27: J, 10°, CN, ST, RF	
					457.54		BRECCIA: fine to medium grained, pale yellow grey, crystalline, massive, breciated gravelly clasts in fine granitic matrix.				
					421.55						
		100	94	422	457.14		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is fine to medium grained, dark grey to grey and white, slightly altered, crystalline, massive.	FR		421.53: J, 20°, CN, ST, RF 421.58: J, 50°, CN, ST, RF 421.69: J, 25°, CN, ST, RF 421.86: J, 45°, CN, CU, RF 422.04: J, 15°, CN, ST, RF 422.24: J, 60°, CN, PR, SM	
NMLC		93	93	424						423.38: J, 80°, UN 423.42: J, 60°, CN, ST, RF 423.80-424.80: over core testing and sampling	
HQ3		100	94	427	427.40						
					451.30		MIXED LAMPROPHYRE AND ALTERED GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive, up to 1.5m thick; altered granite is fine to medium grained, dark grey to grey and white, slightly altered, crystalline, strongly mixed, phenocrysts to 2 mm diameter.				
		100	100	429						429.62: J, 30°, CN, ST, RF	
		100	100	430							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	45 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear	Logged:	AAB/DD
		Inclination:	LF160 -87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M 2 H 6 VH 20 EH 60	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	430			MIXED LAMPROPHYRE AND ALTERED GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive, up to 1.5m thick; altered granite is fine to medium grained, dark grey to grey and white, slightly altered, crystalline, strongly mixed, phenocrysts to 2 mm diameter.	FR		430.90: J, 40°, CN, PR, RF	
				431							
				432						431.97: J, 40°, CN, PR, RF	
										432.50: J, 65°, CN, PR, RF	
		100	100	433							
				434							
				435							
				436						436.28: J, 40°, CN, PR, SM	
		100	100	437							
				438						437.78: J, 40°, CN, PR, SM	
										438.70: J, 25°, CN, PR, RF	
		100	100	439							
				440						439.88: J, 40°, CN, PR, SM	

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	46 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description			Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)
HQ3		100	100	440			MIXED LAMPROPHYRE AND ALTERED GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive, up to 1.5m thick; altered granite is fine to medium grained, dark grey to grey and white, slightly altered, crystalline, strongly mixed, phenocrysts to 2 mm diameter.	FR	VL .2 L .6 M .20 H .60 VH .200 EH	440.86: J, 5°, CN, PR, SM	10 30 100 300 1000 3000
				441						441.21: J, 35°, CN, PR, SM	
				442						441.77: J, 40°, CN, PR, SM	
		100	100	443						442.64: J, 25°, CN, PR, RF 442.98: J, 30°, CN, PR, RF 443.30: J, 30°, CN, PR, RF	
				444						443.78: J, 20°, CN, PR, SM 444.15: J, 20°, CN, PR, RF 444.36: J, CN, ST, RF 444.53: J, 30°, CN, PR, RF	
		100	100	445						445.26: J, 30°, CN, PR, SM 445.64: J, 35°, CN, PR, SM	
				446							
				447							
		100	100	448						447.95: J, 70°, CN, ST, RF	
				449							
				450							

Comments

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	47 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL -2 L -6 M -20 H -60 VH -200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	450			MIXED LAMPROPHYRE AND ALTERED GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive, up to 1.5m thick; altered granite is fine to medium grained, dark grey to grey and white, slightly altered, crystalline, strongly mixed, phenocrysts to 2 mm diameter.	SW FR			
				451						451.39: J, 25°, CN, PR, RF 451.63: J, 30°, CN, ST, VR	
		100	100	452						452.70: J, 35°, CN, ST, RF	
				453						453.26: J, 20°, CN, PR, SM 453.60: J, 10°, CN, PR, RF 453.72: J, 30°, CN, ST, RF	
		100	100	454						454.57: J, 5°, CN, PR, RF	
				455							
				456						455.96: J, 40°, CN, PR, RF 456.07: J, 30°, SN, PR, RF 456.20: J, 40°, CN, UN, RF 456.23: J, 40°, CT, ST, RF 456.61: J, 25°, CN, UN, RF	
		100	97	457						456.96: J, 10°, CN, ST, RF	
				458						457.82: J, 15°, CN, PR, RF 457.89: J, 20°, CN, UN, RF	
				459						459.38: J, 30°, CN, UN, RF 459.50: J, 5°, CN, CU, RF	
		100	100	460							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	48 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M 2 H 6 VH 20 EH 200	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	460			MIXED LAMPROPHYRE AND ALTERED GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive, up to 1.5m thick; altered granite is fine to medium grained, dark grey to grey and white, slightly altered, crystalline, strongly mixed, phenocrysts to 2 mm diameter.	FR		460.70: J, 15°, CN, ST, RF 460.77-460.90: Jsx3, 20°, CN, ST, RF, 20 mm spacing spaced	
				461							
				462						462.15: J, 30°, CN, PR, RF	
				463						462.75: J, 5°, CN, ST, RF 462.79: J, 30°, CN, ST, RF	
		100	100	464							
				465						464.42: J, 10°, CN, PR, RF 465.04: J, 35°, SN, PR, RF	
				466							
				467	467.00						
		100	100	468	411.75		ALTERED GRANITE: granite is pale grey, and white highly altered fine to coarse grain, crystalline, up to 600 mm thick; sporadic lamprophyre is fine to medium grained, pale grey, porphyritic, massive.				
				469	468.90 409.85		MIXED LAMPROPHYRE AND ALTERED GRANITE: fine to medium grained, porphyritic, massive, lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive, up to 5m thick; altered granite is fine to medium grained, dark grey to grey and white, slightly altered, crystalline, strongly mixed, phenocrysts to 2 mm diameter.			469.59: J, 10°, CN, PR, RF	
		100	100	470	470.00						

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	49 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear	Logged:	AAB/DD
		Inclination:	LF160 -87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)
HQ3		100	100	470	408.75		LAMPROPHYRE: fine to medium grained, dark grey, crystalline, massive, strongly fractured, phenocrysts to 2 mm diameter.	FR	VL .2 L .6 M .20 H .60 VH .200 EH	470.46: J, 20°, CN, PR 470.81: J, 15°, gy mi CN, UN	10 30 100 300 1000 3000
		100	100	471							
		100	100	472							
		100	92	473							
		100	100	474							
				475	475.00 403.76		Fine grained, dark grey to black, porphyritic, numerous healed microjoints.			477.90: J, 30°, CN, UN 478.48: J/DB, 25°, CN, PR	
				476							
				477							
				478							
				479							
				480	480.00						

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	50 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear	Logged:	AAB/DD
		Inclination:	LF160 -87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M 2 H 6 VH 20 EH 200	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	480	398.77		LAMPROPHYRE: fine to medium grained, dark grey to black, porphyritic, massive.	FR		480.38: J, 20°, CN, PR	
		100	100	481							
				482							
				483						483.80: J/DB, 20°, pl gy, PR, SM	
		100	100	484							
					484.70 394.07		Dark grey to black, with highly altered granite inclusion.				
				485							
				486						486.55: J, 0°, pl gy SN, PR, RF	
		100	100	487							
				488							
				489							
		100	100	490	490.00						

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	51 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL 2 L 6 M 20 H 60 VH 200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	490	388.78		LAMPROPHYRE: fine to medium grained, dark grey to black, porphyritic, massive.	FR			
				491							
				492						492.43: J, 10°, pl gy, yl CN, PR	
		100	98	493							
				494							
				495	495.00						
					383.79		495.00-499.78m: increasing Altered Granite content, white to pale green-yellow alteration, generally sub-horizontal healed joints with minor alteration halo's. MIXED LAMPROPHYRE AND ALTERED GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is fine to medium grained, dark grey to grey and white, slightly altered, crystalline; green-yellow alteration around defects, numerous healed defects.	SW			
		100	100	496							
				497						497.32: J, 65°, CN, PR, SM	
				498							
		100	100	499							
					499.78						
				500	500.00						

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	52 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL -2 L -6 M -20 H -60 VH -200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	500	378.80		MIXED LAMPROPHYRE AND ALTERED GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is fine to medium grained, dark grey to grey and white, slightly altered, crystalline; green-yellow alteration around defects, numerous healed defects.	FR			
				501						501.43: J, 15°, SN, PR	
		100	100	502							
				503						503.30: J, 10°, CN, PR	
		100	100	504							
				505						505.15: J, 10°, CN, UN 505.18: J, 10°, SN, IR, RF 505.21: J, 0°, CN, IR 505.22: J, 30°, CN, PR, SM 505.27: J, 70°, CN, PR	
		100	100	506							
				507						506.57: J, 70°, SN, PR, SM	
		100	100	508	508.07						
					370.74		MIXED LAMPROPHYRE AND ALTERED GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is fine to medium grained, dark grey to grey and white, moderately to highly altered, crystalline; green-yellow alteration around defects, numerous healed defects.				
				509							
				510	510.00						

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	53 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description			Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)
HQ3		100	100	510	368.81		MIXED LAMPROPHYRE AND ALTERED GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is fine to medium grained, dark grey to grey and white, moderately to highly altered, crystalline; green-yellow alteration around defects, numerous healed defects.	FR		509.95: J, 20°, SN, ST, RF 510.24: J, 50°, CN, ST, RF 510.46: J, 40°, CN, PR, RF	
				511	*511.35* 367.46		Green grey.	SW		511.32: J, 0°, CN, IR, RF	
		100	100	512	*512.30* 366.51		Dark grey to black.	SW - FR		511.94: J, 40°, CN, PR, RF 512.05: J, 40°, CN, PR, RF 512.38: J, 70°, CN, ST, RF	
		100	100	513						513.12: J, 10°, CN, RF 513.29: J, 20°, CN, PR, SM 513.30: J, 70°, CT, IR, RF	
		100	100	514							
		100	100	515							
		100	100	516							
		100	100	517							
		100	100	518			518.00 - 520.00m : minor coarse grain inclusions. alteration halos are healed joints and veins.			518.54: J, 20°, CN, PR, SM 518.59: J, 80°, CN, IR, SM 518.78: J, 5°, CN, ST, SM	
		100	95	519						519.18: J, 20°, CN, PR, SM 519.30: J, 80°, CN, PR, SM	
				520	*520.00*						

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	54 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear	Logged:	AAB/DD
		Inclination:	LF160 -87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M 2 H 6 VH 20 EH 60 200	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3				520	358.82		520.00-521.35m: increasing coarse grained inclusions, alteration halos around veins and healed joints. MIXED LAMPROPHYRE AND ALTERED GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is fine to medium grained, dark grey to grey and white, moderately altered, crystalline; green-yellow alteration around defects, numerous healed defects.	SW - FR			
				521							
		100	95		521.35					521.25: J, 45°, SN, PR, RF	
					521.80 357.03		521.80-522.30m: pink and pale yellow alteration in pale grey silicified basalt.				
				522				SW			
					522.30 356.53		522.30-524.20m: fine grained, brown and grey, highly fractured, numerous healed microfractures.			522.20: J, 20°, gy mi CN, PR, RF 522.33: J, 40°, pale gy-br VN, PR, RF	
					522.82					522.60: J, 60°, pale gy-br VN, PR, RF 522.70: J, 65°, pale gy-br VN, PR, RF	
				523						523.10: Jx2, 65 - 75°, pale br gy SN, PR, RF	
										523.35: J, 50°, pale br gy SN, PR 523.40: J, 10°, CN, PR 523.50: J, 50°, pale br gy VN, PR	
				524						523.87: J, 20°, pale br gy VN, PR, RF	
					524.20 354.63		Fine grained, black, glassy, massive, moderately to highly altered.	SW - FR		524.25: J, 55°, CN, PR, RF	
		100	74							524.41-524.60: J, 60°, pale br gy VN, PR, RF 524.52: J, 10°, SN, PR, RF	
				525						525.10: J, 30°, br mi VN, PR, RF	
										525.65: J, 20°, br mi SN, PR, RF	
				526						525.85: J, 30°, gy mi SN, PR, RF 525.93: J, 50°, CN, PR, RF	
										526.57: J, 20°, wh br mi VN, UN, RF	
										526.75: J, 70°, wh br mi SN, UN, RF	
				527						526.90-527.00: J, 85°, pale br VN, PR, RF	
		100	73							527.14: J, 20°, pale br SN, PR, RF 527.00-527.30: J, 70 - 80°, pale br VN, PR, RF 527.30: J, 20°, pale br SN, PR, RF 527.45: J, 30°, pale br SN, PR, RF	
										527.65-527.77: Jx4, 60 - 70°, pale br SN, PR, RF	
					528.00		527.80 - 529.45m : becoming coarser grained				
				528	350.83		Pale grey and pale brown, with sub-vertical joints.	FR		527.90-528.45: J, 65°, CN, PR, RF	
										528.42: J, 5°, CN, UN	
										528.50-528.75: J, 70 - 80°, CN, UN	
					529.00					528.80: J, 5°, br, wh VN, IR, RF	
				529	349.83		Pale grey.	SW - FR		528.80-529.18: J, 85°, gy, br, wh, or VN, UN, RF 529.08: J, 60°, br VN, UN, RF 529.13: J, 60°, pale br VN, PR, RF 529.22: J, 5°, CN, IR, RF	
		100	90							529.58: J, 30°, pale br gy VN, UN, RF	
				530	530.00					529.83: J, 60°, SN, PR, RF	

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	55 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear	Logged:	AAB/DD
		Inclination:	LF160 -87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M 2 H 6 VH 20 EH 60 200	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3				530	348.84		BASALT: fine grained, pale grey, glassy, massive.	SW - FR		529.90-530.45: J, 85 - 90°, pale wh gy SN, PR, RF 530.21-530.50: J, 45 - 90°, pale gy wh SN, UN, RF 530.52: J, 60°, CN, PR, RF	
					530.60						
		100	90	531	348.24		BASALT: fine to medium grained, black, glassy, massive, trace phenocrysts to 2 mm diameter, few fine grains.	FR			
				532						531.83: J, 5°, SN, UN 532.00-532.25: Jx3, 5 - 10°, SN, UN, RF	
				533			532.90-535.25m: becomes sporadically porphyritic, white mineral	FR			
		100	77					SW		533.21: J, 0°, gravel, IR, RF, strongly deformed low strength 533.40: J, 0°, gravel, IR, RF	
				534				FR		533.75: J, 0°, gravel, IR, RF	
								FR			
				535							
					535.90					535.50-535.70: Jx8, 5 - 15°, SN, PR, RF 535.72-535.82: J, 60°, SN, PR, RF 535.75-535.85: Jx5, 10 - 20°, SN, PR, RF	
				536	342.94		MIXED LAMPROPHYRE AND ALTERED GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is fine to medium grained, dark grey to grey and white, moderately altered, crystalline; green-yellow alteration around defects, numerous healed defects.			536.12: J, 70°, wh mi CT, UN, RF 535.82-536.45: SZ, 65°, brecciated zone, healed, sub-vertical shearing 536.25-536.40: J, 65°, gy mi CT, UN, RF 536.47-536.53: J, 0 - 90°, CN, ST, RF	
		100	12	537						536.72-536.82: J, 60°, gy mi SN, UN, RF 536.80-536.92: J, 70°, gy mi SN, UN, RF	
										536.98-537.13: J, 70°, gy mi SN, UN, RF 537.10: J, 50°, gy mi SN, UN, RF 537.07-537.25: J, 75°, gy mi SN, UN, RF 537.16: J, 10°, gy mi SN, UN, RF 537.15-537.28: J, 70°, gy mi SN, UN, RF 537.25-537.31: J, 60°, CN, ST, RF 537.32-537.41: J, 60°, gy mi SN, PR, SM 537.35-537.53: J, 70°, gy mi SN, UN, SM 537.47-537.56: J, 70°, gy mi SN, UN, SM 536.80-538.30: FZ, 50 - 80°, gy mi, IR, RF, multiple defects, generally high angle, 1-10mm shearing, 10-30mm defect spacing 537.56-537.81: FZ, gy mi SN, IR, RF 537.86: J, 0°, gy mi SN, UN, RF 535.80-540.00: SZ, 50 - 70°, wh, gy SN, UN, RF, minor shearing, 1-10mm sub-vertical deflection, highly fractured, gravelled and wedged host rock, 10-30mm defect spacing, sporadic defects 30-90 degrees, significant defect 537.96: J, 15°, gy mi SN, PR, RF 538.00-538.28: FZ, 40 - 80°, gy mi SN, PR, RF 538.20-538.40: J, 70°, gy mi SN, UN, RF 538.31: J, 10°, gy mi SN, UN, RF 538.31-538.43: J, 75°, gy mi SN, UN, RF 538.42: J, 20°, CN, PR, SM 538.45-538.51: J, 50°, gy mi VN, UN, SM	
				538							
		100	27	539			slightly altered				
				540	*540.00*						

Comments

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	56 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear	Logged:	AAB/DD
		Inclination:	LF160 -87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M .20 H .60 VH .200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	27	540	338.85		MIXED LAMPROPHYRE AND ALTERED GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is fine to medium grained, dark grey to grey and white, moderately altered, crystalline; green-yellow alteration around defects, numerous healed defects.	FR		538.58: J, 20°, CN, ST, RF 538.33-538.88: J, 80°, gy mi SN, UN, RF 538.66-538.74: J, 30°, CN, ST, RF 538.73-538.92: J, 75 - 70°, gy mi SN, PR, SM 538.79-538.94: J, 70°, CN, UN, RF 538.96-539.98: J, 85 - 90°, wh mi CT, UN, RF 539.45-539.64: J, 75°, CN, UN, RF 539.71-539.85: J, 85 - 90°, gy mi SN, UN, RF 539.86-540.00: J, 70°, gy mi SN, PR, RF 539.96-540.06: J, 70°, CN, PR, SM 539.98-540.20: J, 85°, gy mi VN, PR, RF 540.20-540.31: J, 90°, closed CN, PR 540.29-540.35: J, 50°, closed CN, UN	
				541						541.50: J, 60°, wh, gy VN, PR 541.61: J, 30°, SN, PR	
		100	100	542						541.85: J, 30°, SN, PR 542.15: J, 70°, gy SN, PR, RF 542.32: J, 15°, gy SN, PR, RF	
				543						542.57: J, 15°, ' SN, PR, RF	
		100	100	544						543.70: J, 60°, wh, pale gy VN, UN	
				545						544.75-545.00: J, 60°, wh, pale gy SN, UN	
		100	70	546						545.66: J, 10°, wh, pale gy SN, UN, RF 545.85: J, 10°, wh, pale gy SN, UN, RF 546.18: J, 75°, CN, PR, SM 546.58: J, 5°, CN, PR, RF	
				547						547.07: J, 75°, wh mi CT, PR, RF, 20 mm 547.20: J, 70°, wh mi CT, PR, RF, 4 mm 547.24: J, 45°, CN, PR, RF 547.48: J, 70°, CT, PR, RF	
				548						547.70: J, 70°, UN, SM 547.81: J, 80°, IR, RF	
		100	100	549						548.00-548.52: J, 80°, wh mi CT, PR-UN, RF, 15 mm 548.59: J, 35°, CN, St, RF 548.87: J, 80°, IR, RF 548.93: J, 90°, IR, RF 549.03: J, 85°, CN, UN, SM 549.09: J, 40°, CN, UN, SM	
				550							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	57 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M .20 H .60 VH .200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	550			MIXED LAMPROPHYRE AND ALTERED GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is fine to medium grained, dark grey to grey and white, moderately altered, crystalline; green-yellow alteration around defects, numerous healed defects.	FR		550.40: J, 30°, CN, UN, SM 550.73: J, 60°, CN, PR, SM	
				551	551.10						
					327.77		BASALT: fine grained, dark grey, crystalline, massive, slight alteration around healed joint, few granodiorite dykes up to 200mm thick.	SW - FR		551.37: J, 40°, CN, PR, SM 551.71: J, 70°, CN, UN, SM	
				552						552.05: J, 70°, CN, PR, SM	
		100	98	553						553.07: J, 75°, SM-RF	
				554							
				555	555.05					554.64: J, 5°, CN, SM	
					323.82		MIXED LAMPROPHYRE AND ALTERED GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is fine to medium grained, dark grey to grey and white, moderately altered, crystalline; green-yellow alteration around defects, numerous healed defects.				
		100	100	556						556.59: J, 30°, PR, RF	
				557						557.67: J, 30°, CN, UN, RF	
				558						557.98: J, 5°, CN, PR, SM 558.18: J, 5°, CN, UN, SM	
		100	100	559						559.54: J, 20°, CN, PR, RF	
				560							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	58 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear	Logged:	AAB/DD
		Inclination:	LF160 -87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)
HQ3		100	100	560			MIXED LAMPROPHYRE AND ALTERED GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is fine to medium grained, dark grey to grey and white, moderately altered, crystalline; green-yellow alteration around defects, numerous healed defects.	SW - FR	VL -2 L -6 M -20 H -60 VH -200 EH	560.31: J, 20°, CN, PR, SM	10 30 100 300 1000 3000
				561						561.12: J, 10°, CN, PR, RF	
										561.35-561.50: Jsx2, 5°, PR, RF, 300 mm spacing spaced	
										561.71: J, 20°, CN, PR, RF	
		100	100	562							
				563							
				564							
				565							
		100	100	566							
				567							
				568			568.35-569.05m: slightly altered	SW		568.50: J, 65°, UN, RF, 20 mm	
		100	67	569			569.05-569.40m: moderately altered			568.63-569.41: SZ, 60 - 70°, fine to coarse gravel and cobbles, wh mi, UN, FR, 600 mm	
								FR		569.33: J, 75°, PR, RF, 40 mm	
				570						569.40: J, 45°, CT, PR, RF	

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	59 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear	Logged:	AAB/DD
		Inclination:	LF160 -87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M 2 H 6 VH 20 EH 60 200	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	67	570			MIXED LAMPROPHYRE AND ALTERED GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is fine to medium grained, dark grey to grey and white, moderately altered, crystalline; green-yellow alteration around defects, numerous healed defects.	FR		570.46: J, 25°, CN, PR, RF	
		100	100	571						571.97: J, 15°, PR, SM	
				572						572.82: J, 40°, CN, PR, RF	
		100	93	573						574.74: J, 70°, CN, UN, SM	
				574							
				575			575.83-576.00m: slightly altered			576.54: J, 5°, SN, PR, SM	
		100	100	576						578.17: J, 20°, CN, ST, SM	
				577						578.47: J, 5°, CN, PR, SM	
				578						579.02: J, 65°, CN, ST, SM	
				579							
		100	100	580							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	60 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M .20 H .60 VH .200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	580			MIXED LAMPROPHYRE AND ALTERED GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is fine to medium grained, dark grey to grey and white, moderately altered, crystalline; green-yellow alteration around defects, numerous healed defects.	FR		580.19: J, 60°, CT, ST, RF	
				581							
										581.34: J, 20°, PR, RF, 10 mm	
				582							
										582.65: J, 20°, CN, ST, RF	
		100	100	583							
										583.54: J, 5°, CN, UN, RF	
				584							
										584.83: J, 35°, CT, PR, RF	
				585							
										585.37: J, 15°, CN, PR, RF	
					585.85					585.64: J, 5°, CN, PR, RF	
				586	293.01		QUARTZITE: fine grained, white, pale pink and pale grey, massive, contact dipping 60-70 degrees.				
							MIXED LAMPROPHYRE AND ALTERED GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is fine to medium grained, dark grey to grey and white, slightly altered, crystalline; green-yellow alteration around defects.				
		100	100	587							
										587.95: J, 60°, PR, RF, 10 mm	
				588			588.00-588.30m: highly altered			588.18: J, 40°, IR, RF 588.25: J, 40°, PR, RF	
							588.30-589.75m: slightly altered				
										588.69: J, 30°, CN, PR, RF	
		100	98	589							
										589.57: Js, IR, RF	
				590							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	61 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL -2 L -6 M -20 H -60 VH -200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	98	590			MIXED LAMPROPHYRE AND ALTERED GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is fine to medium grained, dark grey to grey and white, slightly altered, crystalline; green-yellow alteration around defects.	FR		590.35: J, 70°, CN, IR, SM	
				591						590.78: J, 30°, CN, PR, SM	
										591.42: J, 40°, CN, PR, SM	
										591.65: J, 10°, CN, IR, SM	
				592						591.71: J, 20°, CN, ST, SM	
		100	97	593						592.96: J, 20°, PR	
										593.23: J, 75°, PR, RF, 70 mm	
				594						594.23: J, 60°, CN, ST, RF	
										594.43: J, 0°, CN, PR, RF	
				595						595.26: J, 20°, CN, ST, RF	
		100	100	596							
				597			597.05-597.10m: basalt vein			597.09: J, 60°, RF, 5 mm	
				598						598.40: J, 45°, CN, UN, RF	
										598.45: J, 10°, CN, PR, RF	
										598.47: J, 60°, pl gn-yl mi SN, PR, RF	
										598.61: J, 10°, CN, IR, RF	
		100	95	599						598.84: J, 65°, VN, PR, SM	
										599.10: J, 10°, CN, PR, SM	
							599.60-600.05m: slightly altered			599.74: J, 20°, CN, IR, RF	
				600							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	62 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear	Logged:	AAB/DD
			LF160		
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description			Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)
HQ3		100	95	600			MIXED LAMPROPHYRE AND ALTERED GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is fine to medium grained, dark grey to grey and white, slightly altered, crystalline; green-yellow alteration around defects.	FR	VL .2 L .6 M .20 H .60 VH .200 EH	600.15: J, 30°, VN, ST, SL 600.21: J, 30°, VN, ST, SL 600.28: J, 10°, CN, ST, SM 600.43-600.60: Jsx3, 30°, VN, UN, SL 600.74: J, 20°, CN, UN, RF	10 30 100 300 1000 3000
				601						601.11: J, 30°, CN, PR, RF 601.17: J, 50°, CN, PR, RF 601.28: J, 55°, CN, PR, RF 601.50: J, 40°, CN, UN, RF	
		100	83	602			602.00-616.66m: slightly altered			601.96: J, 35°, CN, UN, RF 602.05: J, 50°, CN, ST, RF 602.13: J, 50°, CN, UN, RF 602.47: J, 25°, CN, UN, RF 602.60: J, 60°, CN, PR, RF 602.68: J, 75°, CN, UN, RF 602.90: J, 55°, UN	
				603						603.15: J, 30°, CN, UN, RF 603.27: J, 50°, CN, UN, RF 603.58: J, VN, UN, RF 603.65: J, 35°, CN, UN, RF	
				604						604.31: J, 60°, CN, UN 604.61: J, 50°, CN, UN, RF	
		100	97	605						604.98: J, 5°, PR, RF 605.12: J, 40°, CN, PR, RO	
				606						605.59: J, 40°, CN, PR, SM 605.81: J, 40°, CN, PR, SM	
				607						606.30: J, 30°, CN, ST, SM 606.48: J, 20°, CN, PR, SM 606.67-606.80: Jsx4, 40°, CN, PR, SM 606.86: J, 30°, PR 607.06: J, 40°, CN, PR, SM 607.41: J, 40°, CN, PR, SM	
		100	73	608						607.61: J, 40°, PR, SM 607.61: J, 20°, CN, PR, SM 607.71: J, 40°, PR, RF 607.78: J, 15°, gy mi SN, PR, RF 607.81: J, 10°, wh, Qtz mi VN, UN 607.82: J, 55°, wh, Qtz mi VN, UN 608.00: J, 20°, wh, pale gy SN, UN, RF 608.02: J, 20°, wh, pale gy SN, UN, RF 608.18-608.24: J/hJ, 20 - 30°, br, iron oxide VN, UN, RF 608.42: J, 50°, br, pale gy SN, PR, RF 608.45: J, 60°, pale gy SN, UN, RF 608.52: J, 25°, gy SN, PR, RF 608.78: J, 10°, pale gy SN, PR, RF 609.00-609.08: FZ, recovered as gravel	
				609						609.10-610.22: J>15, 20 - 30°, pale gy SN, PR, RF	
		100	47	610							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	63 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear	Logged:	AAB/DD
			LF160		
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description			Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M 2 H 6 VH 20 EH 200	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	47	610			MIXED LAMPROPHYRE AND ALTERED GRANITE: lamprophyre is fine to medium grained, pale grey to dark grey, porphyritic, massive; granite is fine to medium grained, dark grey to grey and white, slightly altered, crystalline; green-yellow alteration around defects.	FR		610.40-610.55: J, 80°, pale gy SN, PR, RF 610.53: J, 30°, pale gy SN, PR, RF 610.60: J, 20°, pale gy VN, PR, RF 610.66: J, 20°, pale gy SN, PR, RF 610.85: J, 10°, pale gy SN, UN, RF	
				611						611.00-611.55: Jx10, 10 - 20°, pale gy SN, PR-UN, RF	
				612						612.05: J, 50°, gy SN, PR, RF 612.12: J, 70°, pale gy SN, PR, RF 612.30: J, 5°, pale gy SN, UN, RF 612.45: J, 50°, pale gy, br SN, PR, RF 612.50-612.55: J/FZ, 30 - 40°, pale gy, br SN, PR-UN, RF	
		100	90	613						612.86: J, 30°, pale gy, br SN, PR-UN, RF 613.33: J, 60°, gy mi SN, PR, RF 613.35-613.43: J, 70°, gy mi SN, UN, RF 613.45: J, 20°, gy mi SN, UN, RF 613.53: J, 35°, gy mi SN, PR, RF	
				614						614.20: J, 25°, pale gy SN, UN, RF 614.48: J, 35°, pale gy SN, PR, RF 614.58: J, 40°, pale gy SN, UN, RF	
				615						615.17: J, 60°, pale gy SN, PR, RF 615.22-615.30: J, 55°, pale gy SN, PR, RF 615.40-615.65: J, 60°, pale gy, wh VN, PR, RF	
		100	95	616						615.70-615.85: J, 60 - 70°, pale gy, wh VN, PR, RF 615.89: J, 5°, pale gy, wh SN, PR, RF 615.90-616.00: J, 85 - 90°, pale gy, wh SN, PR, RF 616.25: J, 45°, pale gy, wh SN, UN, RF 616.28: J, 30°, pale gy, wh SN, PR, RF 616.65: J, 45°, pale gy SN, PR, RF	
				617						616.92: J, 10°, pale gy SN, PR, RF 617.00-617.05: FZx2, 60 - 65°, pale gy, wh VN, UN, intersecting joints 617.09: J, 30°, pale gy, wh VN, UN 617.33: J, 60°, CN, PR 617.65: J, 10°, CN, UN, RF	
				618						618.12: J, 15°, SN, PR, RF 618.18: J, 20°, pale gy SN, UN, RF 618.50: J, 30°, CN, UN, RF	
		100	97	619						618.80: J, 30°, pale gy, wh VN, UN 618.89: J, 5 - 10°, pale gy, wh VN, IR	
					619.35 259.61		MIXED LAMPROPHYRE AND ALTERED GRANITE: lamprophyre is fine to medium grained, dark grey and white, porphyritic; granite is fine to medium grained, pale grey to grey and altered yellow to pale green, crystalline, massive, moderately altered.			619.28-619.35: Jsx3, 30 - 50°, pale gy, wh VN, UN, RF 619.38: J, 40°, pale gy, wh VN, UN, RF 619.61-619.75: SZ, 90°, PR, approximately 20-30mm vertical deflection	
				620	620.00						

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	64 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear	Logged:	AAB/DD
		Inclination:	LF160 -87° Direction: 233°		

Drilling						Field Material Description			Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)
HQ3		100	97	620	258.96		619.35-620.55m: moderately altered	FR	VL .2 L .6 M .20 H .60 VH .200 EH	619.35-620.10: EW, pale yl, wh, gy, extremely weathered and strongly deformed and recemented	10 30 100 300 1000 3000
					620.55		MIXED LAMPROPHYRE AND ALTERED GRANITE: lamprophyre is fine to medium grained, dark grey and white moderately altered, porphyritic; granite is fine to medium grained, pale grey to grey, pink and brown, crystalline, massive.			620.10-620.13: Jsx3, 60 - 70°, pale yl, wh, gy VN, PR-UN, RF	
					258.41		MIXED LAMPROPHYRE AND ALTERED GRANITE: lamprophyre is fine to medium grained, dark grey and white, porphyritic; granite is fine to medium grained, pale grey to grey and altered yellow to pale green, crystalline, massive, slightly altered.			620.14-620.41: SZ, 70°, PR, approximately 30-40mm vertical deflection	
										620.55-620.60: Jsx2, 70°, pale yl, wh, gy CT, UN, RF	
										620.65: J, 45°, pale gy SN, PR	
										620.70: J, 60°, pale gy SN, PR	
				621						620.92: J, 30°, SN, PR	
										621.16-621.44: SZ, 75°, UN, 5-10mm vertical deflection, healed	
										621.58: J, 45°, wh, pale gy SN, PR	
										621.75-621.78: J, 10 - 30°, pale gy SN, UN, RF	
				622						621.88: J, 20°, wh, pale gy VN, UN	
										622.24-622.38: SZ, 70°, CU, 30mm vertical deflection, healed	
										622.35: J, 15°, SN, PR, RF	
										622.38: J, 10°, wh, pale gy SN, UN	
		100	100	623						622.83: J, 30°, pale gy, gn SN, UN, RF	
										622.96-622.96: Jx2, 35 - 40°, pale gy, gn SN, UN, RF	
										623.37: J, 10°, pale gy, gn SN, PR	
										623.70: J, 45°, pale gy, gn SN, PR	
				624						623.85-623.99: SZ, 80°, PR, 10mm deflection, healed	
										623.90-624.00: J, 65°, pale gy SN, PR	
										624.25-624.65: SZ, 70°, multiple sheared surfaces, 30-100mm spacing, 5mm vertical defelection, healed	
										624.65: J, 10°, SN, PR, RF	
				625						624.85: SZ, 70°, 20mm deflection, healed	
										624.94: J, 10°, pale gy, wh SN, PR, RF	
				626							
		100	100							626.65: J, 50°, SN, PR	
										626.74: J, 15°, CN, UN, RF	
				627							
				628							
		100	100	629						628.90-629.00: Jsx2, 15°, CN, UN, SM	
				630							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	65 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear	Logged:	AAB/DD
			LF160		
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description			Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL -2 L -6 M -20 H -60 VH -200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	630			MIXED LAMPROPHYRE AND ALTERED GRANITE: lamprophyre is fine to medium grained, dark grey and white, porphyritic; granite is fine to medium grained, pale grey to grey and altered yellow to pale green, crystalline, massive, slightly altered.	FR		630.17-630.46: SZ, 85°, 5-10mm deflection, healed 630.47: J, 30°, pale gy, wh SN, PR, RF 630.62: J, 40°, pale gy, wh SN, PR, RF	
				631						631.03: J, 20°, SN, PR	
		100	100							631.36: SZ, 30°, PR, 10mm deflection, healed	
				632							
				633	633.13						
NMLC					245.74		NO CORE 0.05m (633.13-633.18)	FR			
					633.52		MIXED LAMPROPHYRE AND ALTERED GRANITE: lamprophyre is fine to medium grained, dark grey and white, porphyritic; granite is fine to medium grained, pale grey to grey and altered yellow to pale green, crystalline, massive, slightly altered.				
					245.46		NO CORE 0.28m (633.24-633.52) Overcoring test.	FR			
				634			MIXED LAMPROPHYRE AND ALTERED GRANITE: lamprophyre is fine to medium grained, dark grey and white, porphyritic, phenocrysts to 2 mm diameter; granite is fine to medium grained, white to grey and dark grey, crystalline, massive.				
		89	89							634.67: J, 50°, SN, PR, RF	
				635						635.17: J, 10°, SN, PR, RF 635.26: J, 45°, pale gy SN, PR, RF	
					635.45						
					243.43		QUARTZITE: fine grained, white pale grey and pink, porphyritic, massive, contact at about 30 degeers.				
HQ3				636			MIXED LAMPROPHYRE AND ALTERED GRANITE: lamprophyre is fine grained, dark grey and white, porphyritic; granite is fine to medium grained, pale grey to grey and altered yellow to pale green, crystalline, massive, slightly altered.			635.76: J, 10°, dark gy SN, PR	
										636.65: J, 30°, br SN, PR	
				637			636.95-639.24m: slightly altered			636.90: J, 70°, SN, UN, RF	
										637.32: J, 10°, SN, UN	
		100	100								
				638						637.98: J, 20°, br VN, UN	
										638.80: J, 20°, pale yl, wh SN, PR	
				639	639.24						
NMLC					239.69		NO CORE 0.06m (639.24-639.30) Overcoring test.	FR			
					639.62		NO CORE 0.32m (639.30-639.62) Overcoring test.				
		38	38		239.28		MIXED LAMPROPHYRE AND ALTERED GRANITE: lamprophyre is fine grained, dark grey and white, porphyritic; granite is fine to medium grained, pale				
				640							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	66 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL -2 L -6 M -20 H -60 VH -200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
NMLC		38	38	640	640.17		grey to grey and altered yellow to pale green, crystalline, massive, slightly altered.	FR			
					238.82		METAGRANITE: lamprophyre is fine grained, dark grey and white, porphyritic; granite is fine to medium grained, pale grey to grey and altered yellow to pale green, crystalline, massive, slightly altered.				
					640.68						
					238.31		NO CORE 0.51m (640.17-640.68) Overcoring test.	FR			
HQ3		100	100	641			METAGRANITE: fine to coarse grained, white and grey, crystalline, massive, slightly to moderately altered, crystal reorientation due to metamorphism, with basalt inclusions up to 100 mm diameter, crystal reorientation due to metamorphism.			641.52: J, 10°, br, UN	
				642							
		100	100	643							
				644							
				645							
		100	100	646						646.18-646.30: SZ, 60°, PR, >70mm deflection, healed	
										646.79: J, 10°, br SN, PR	
				647						647.12: J, 10°, pale gy, wh, UN	
										647.52: J, 45°, pale gy, wh SN, PR	
				648							
		100	100	649						648.97: J, 60°, pale gy SN, PR 649.08: J, 30°, pale gy SN, UN	
				650	650.00						

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	67 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M 2 H 6 VH 20 EH 200	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	650	229.00		METAGRANITE: fine to coarse grained, white, pink and grey, crystalline, massive, with basalt inclusion up to 100 mm diameter, crystal reorientation due to metamorphism.	FR			
				651							
		100	100	652						652.15: J, 60°, pk SN, PR	
										652.56: J, 5°, IR, RF	
				653						653.30: J, 30°, pk, br,pale gy, wh SN, IR	
					654.00						
				654	225.01		White, pink and grey, moderately altered (green-grey) altered around healed defects.				
				655						655.12-655.25: Jsx3, 80 - 85°, pale gy, wh VN, PR, RF	
		100	100							655.62: J, 10°, SN, UN, RF	
				656							
										656.30: J, 20°, pale gy SN, PR	
				657							
				658							
		100	100							658.32: J, 70°, pale gy VN, PR	
				659							
					660.00						

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	68 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear	Logged:	AAB/DD
		Inclination:	LF160 -87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M .20 H .60 VH .200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	660	219.01		METAGRANITE: fine to coarse grained, white and dark grey, crystalline, massive, green to grey alteration around healed defects, with basalt inclusion up to 100 mm diameter, crystal reorientation due to metamorphism.	FR		660.63: J, 50°, pale gy, wh VN, UN	
		100	100	661							
				662						662.50: J, 45°, pale gy SN, PR	
		100	100	663							
				664						663.85: J, 45°, pale gy, wh SN, PR 664.20: J, 60°, pale gy, wh VN, CU, RF 664.49: J, 30°, pale gy, wh SN, UN	
		100	100	665						665.15: J, 40°, pale gy, yl, wh SN, UN	
				666							
				667						666.70: J, 50°, wh, pale gy SN, PR 666.83: J, 45°, wh, pale gy VN, UN	
		100	100	668						668.20: J, 30°, wh, pale gy SN, PR 668.48: J, 10°, wh, pale gy SN, UN	
				669						669.16: J, 5°, pale gy, wh SN, PR	
		100	100	670	670.00						

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	69 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)
HQ3		100	100	670	209.03		METAGRANITE: fine to coarse grained, white and dark grey, crystalline, massive, green to grey alteration around healed defects, with basalt inclusion up to 100 mm diameter, crystal reorientation due to metamorphism.	FR			
		100	100	671							
		100	100	672							
		100	100	673							
		100	100	674						674.37: J, 20°, SN, UN	
		100	100	675							
		100	100	676							
		100	100	677							
		100	100	678							
		100	100	679						679.10: J, 5°, IR, RF 679.42: J, 5°, PR, SM	
				680	680.00						

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	70 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear	Logged:	AAB/DD
		Inclination:	LF160 -87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M .2 H .60 VH 2 EH 200	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	680	199.04		METAGRANITE: fine to coarse grained, white and dark grey, crystalline, massive, with healed sub-vertical joints, crystal reorientation due to metamorphism.	FR		679.93: J, 20°, yl gn, PR, SM	
				681						680.84: J, 10°, PR, SM	
		100	100	682						682.56: J, 5°, IR, RF	
				683							
		100	100	684						683.80: J, 5°, IR, RF	
				685							
		100	100	686							
				687							
		100	100	688						688.70: J, 5°, VN, IR	
				689						689.43: J, 30°, yl gn VN, IR, 20 mm 689.55: J, 30°, yl gn VN, IR, 60 mm	
				690	690.00						

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	71 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description			Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)
HQ3		100	100	690	189.06		METAGRANITE: fine to coarse grained, white and dark grey, crystalline, massive, with healed sub-vertical joints, crystal reorientation due to metamorphism.	FR		690.60: J, 80°, wh mi carb-chl-Qtz VN, PR, SM, 4 mm 690.87: J, 5°, IR, SM 690.75-691.10: J, 80°, wh mi carb-chl-Qtz VN, PR, 3 mm, >50mm defelction	
		100	100	691							
				692							
				693							
		100	100	694							
				695							
				696							
				697	697.00						
		100	100		182.07		MIXED LAMPROPHYRE AND ALTERED GRANITE: lamprophyre is fine to medium grained, dark grey and white, porphyritic, phenocrysts to 2 mm diameter; granite is fine to medium grained, pale grey to grey, crystalline, massive, slightly altered.				
				698	698.05					697.92: J, 5°, IR, RF	
					181.02		METAGRANITE: coarse grained, white mottled dark grey to grey, crystalline, massive, reduced crystal reorientation compared to metagranite above, mafic inclusions to 50mm diameter, slightly to moderately altered around healed defects.				
		100	100	699							
				700							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	72 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)
HQ3		100	100	700			METAGRANITE: coarse grained, white mottled dark grey to grey, crystalline, massive, reduced crystal reorientation compared to metagranite above, mafic inclusions to 50mm diameter, slightly to moderately altered around healed defects.	FR	VL -2 L -6 M -20 H -60 VH -200 EH		10 30 100 300 1000 3000
				701							
				702							
		100	100	703						702.92: J, 5°, pale gy SN, PR, RF	
				704							
				705							
		100	100	706							
				707						707.27: J/DB, CN, PR, RF	
				708						707.94: J, 20°, pale yl, wh SN, PR 708.13: J/DB, 5°, pale yl, wh SN, PR, RF	
		100	100	709							
				710							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	73 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M 2 H 6 VH 20 EH 200	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	710			METAGRANITE: coarse grained, white mottled dark grey to grey, crystalline, massive, reduced crystal reorientation compared to metagranite above, mafic inclusions to 50mm diameter, slightly to moderately altered around healed defects.	FR			
				711	711.25						
					167.83		LAMPROPHYRE: fine grained, dark grey, porphyritic, massive, phenocrysts to 2 mm diameter.				
					711.50						
					167.59		METAGRANITE: coarse grained, white mottled dark grey to grey, crystalline, massive, reduced crystal reorientation compared to metagranite above, mafic inclusions to 50mm diameter, slightly to moderately altered around healed defects.				
		100	100	712							
				713							
				714							
				715							
		100	100	716							
					716.76						
					716.86		LAMPROPHYRE: fine grained, DARK GREY, porphyritic, massive.				
				717	162.23		METAGRANITE: coarse grained, white mottled and pale grey, massive, crystal reorientation due to metamorphism, non-altered to slightly altered around healed defects.				
				718							
		100	100		718.65						
					160.44		LAMPROPHYRE: fine grained, grey to dark grey, porphyritic, massive, phenocrysts to 2 mm diameter.			718.67: J, 70°, clay qtz. contact between granodiorite and lamprophyre SN, CU, SM 718.78: J, 0°, clay carb SN, IR, SM 719.18: J, 70°, wh mi clay gypsum, CU, RF 719.14-719.27: SS, 50°, crushed host rock, wh mi CT, IR, RF, 30 mm, apparent shearing 719.28: J, 10°, IR, RF 719.36: J, 10°, IR, RF 719.49: J, 60°, IR, RF 719.53: J, 60°, dark gy VN, PR, 2 mm	
				719							
					719.75						
					159.35		METAGRANITE: coarse grained, white mottled and pale grey, crystalline, massive, non-altered to slightly				
				720	720.00						

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	74 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear	Logged:	AAB/DD
		Inclination:	LF160 -87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M .20 H .60 VH .200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	720	159.10		altered around healed defects.	FR		719.54: J, 10°, IR, RF 719.76: J, 70°, clay qtz. contact dolerite and granodiorite VN, CU, SM 719.81: J, 5°, IR, RF	
		100	100	721			METAGRANITE: coarse grained, white mottled and pale grey, crystalline, massive, non-altered to slightly altered around healed defects.			721.53: J, 5°, IR, RF	
		100	100	722						721.98: J, 80°, wh mi carb-chl-Qtz SN, IR, 2 mm	
		100	100	723	723.10 156.00		With basalt inclusion up to 100 mm in diameter.				
		100	100	724							
		100	100	725							
		100	100	726							
		100	100	727							
		100	100	728							
		100	100	729							
		100	100	730	730.00						

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	75 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M 2 H 6 VH 60 EH 200	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	730	149.11		METAGRANITE: coarse grained, white mottled and pale grey, crystalline, massive, crystal reorientation due to metamorphism.	FR			
					730.65						
					148.46		LAMPROPHYRE: fine grained, dark green, crystalline, massive, contacts are at about 50 degrees.				
					731.00						
		100	100	731	148.11		METAGRANITE: coarse grained, white mottled and pale grey, crystalline, massive, non to slightly altered, with rare xenoliths.			731.50: J, 35°, PR, SM	
				732							
					732.50						
					146.61		LAMPROPHYRE: fine grained, dark grey, Porphyritic, indistinct, non-altered.			732.62: J, 40°, PR, SM 732.75: J, 40°, PR, SM	
		100	100	733							
				734							
				735							
		100	100	736							
				737							
				738							
		100	100	739							
				740							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	76 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL -2 L -6 M -20 H -60 VH -200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	740			LAMPROPHYRE: fine grained, dark grey, Porphyritic, indistinct, non-altered.	FR			
				741	741.00 138.13		METAGRANITE: coarse grained, white mottled and pale grey, crystalline, massive, with basalt inclusion up to 300 mm diameter.	FR		740.94: J, 30°, IR, RF	
		100	100	742							
				743							
				744							
		100	100	745						745.42: J, 20°, SN, PR, RF	
				746							
				747						747.24: J, 10°, SN, PR	
		100	100	748							
				749							
				750							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	77 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M .20 H .60 VH .200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	750			METAGRANITE: coarse grained, white mottled and pale grey, crystalline, massive, with basalt inclusion up to 300 mm diameter.	FR			
		100	100	751							
				752						752.70: J, 10°, pale gy SN, PR, RF	
				753						753.20-753.25: Jsx2, 0 - 5°, CN, PR	
		100	100	754							
				755							
				756						756.26: J, 5°, CN, PR, RF	
										756.60: J, 55°, pale gy SN, UN	
				757	757.00						
		100	94		122.15		LAMPROPHYRE: fine to medium grained, dark grey, porphyritic, massive.			757.05-757.07: Jsx2, 70°, pale gy, wh SN, UN-pr, RF 757.15-757.18: Jsx2, 5 - 10°, pale gy SN, UN	
				758	758.20					757.48: J, 20°, CN, PR, RF 757.65: J, 10°, SN, PR 757.77: J, 5°, SN, PR 757.90: J, 10°, pale gy SN, PR 757.94: J, 15°, pale gy SN, PR	
					120.95		METAGRANITE: coarse grained, white mottled and pale grey, crystalline, massive, crystal reorientation due to metamorphism, pale orange alteration, slightly to moderately altered around healed defects.	FR / FR		758.00-758.22: Jsx7, 10 - 20°, pale gy, gn VN, UN-pR, RF 758.42: J, 15°, gy SN, PR, RF 758.56: J, 10°, pale gy SN, PR	
				759						758.86: J, 10°, pale gy SN, UN	
		100	100							759.14: J, 10°, SN, UN, RF 759.26: J, 10°, SN, UN, RF 759.28: J, 30°, SN, PR, RF	
				760						759.58: J, 15°, pale gy SN, PR	

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	78 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M 2 H 6 VH 20 EH 200	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	760			METAGRANITE: coarse grained, white mottled and pale grey, crystalline, massive, crystal reorientation due to metamorphism, pale orange alteration, slightly to moderately altered around healed defects.	FR		760.42: J, 20°, pale gy SN, UN 760.65: J, 10°, pale gy SN, UN	
				761						761.16: J, 15°, CN, UN 761.47: J, 50°, pale gy, gn VN, UN	
				762						761.92: J, 20°, CN, PR 762.07: J, 35°, pale gy SN, PR, RF 762.26: J, 10°, pale gy SN, PR, RF	
		100	100	763							
				764						764.66: J, 5°, pale gy SN, PR, RF	
				765							
		100	100	766							
				767						766.90: J, 5°, pale gy, yl SN, UN	
				768						768.18: J, 10°, pale gy, yl SN, PR	
		100	100	769						769.55: J, 5°, SN, PR 769.71-769.72: Jx2, 30°, dark br SN, PR, RF	
				770							

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Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	79 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear	Logged:	AAB/DD
		Inclination:	LF160 -87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M 2 H 6 VH 20 EH 60 200	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	770			METAGRANITE: coarse grained, white mottled and pale grey, crystalline, massive, crystal reorientation due to metamorphism, pale orange alteration, slightly to moderately altered around healed defects.	FR		770.75: J, 10°, dark gy SN, PR	
				771						771.20: J, 5°, pale gy SN, UN 771.28: J, 10°, pale gy SN, UN	
		100	100	772						772.08: J, 10°, pale yl SN, UN	
				773						772.90: J, 45 - 50°, pale br SN, UN	
		100	100	774						773.65: J, 10°, CN, PR, RF	
				775							
		100	100	776							
				777							
		100	100	778							
				779							
				780							

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Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	80 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M 2 H 6 VH 20 EH 60	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	780			METAGRANITE: coarse grained, white mottled and pale grey, crystalline, massive, crystal reorientation due to metamorphism, pale orange alteration, slightly to moderately altered around healed defects.	FR			
		100	100	781							
		100	100	782							
		100	100	783						783.76: J, 20°, IR, RF	
		100	100	784	784.67					784.60: J, 90°, wh mi Qtz clay, UN, RF 784.65: J, IR, RF 784.84: J, 35°, IR, RF 784.85: J, 60°, wh mi Qtz, PR, SM	
				785	94.52		LAMPROPHYRE: fine grained, dark grey to black, porphyritic, massive.			785.35: J, IR, SM 785.36: J, 20°, IR, SM 785.46: J, 85°, wh mi Qtz, PR, SM 785.57: J, IR, RF 785.77: Jx3, 5°, IR, RF	
				786						786.56: J, 60°, PR, SM	
				787	787.25						
		100	100		91.94		METAGRANITE: coarse grained, white mottled pink and pale grey, crystalline, massive, non altered. some sporadic porphyrytic basalt xenoliths.			787.48: J, IR, RF	
					787.80						
				788	91.39		LAMPROPHYRE: fine grained, dark grey to black, porphyritic, massive, slightly altered around healed defects.			788.00: J, 60°, PR, SM 788.16: J, 60°, PR, SM	
					788.65						
					90.54		METAGRANITE: coarse grained, white mottled pink and pale grey, crystalline, massive, crystal reorientation due to metamorphism, with basalt inclusion up to 100 mm in diameter.			788.86: J, 20°, IR, RF	
		100	100	789						789.63: J, IR, RF	
				790							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	81 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)
HQ3		100	100	790			METAGRANITE: coarse grained, white mottled pink and pale grey, crystalline, massive, crystal reorientation due to metamorphism, with basalt inclusion up to 100 mm in diameter.	FR	VL .2 L .6 M .20 H .60 VH .200 EH	791.02: J, 20°, PR, RF 792.07: J, 0°, CU, RF 793.81: J, CU, RF 794.71: J, 10°, PR, SM 795.00: J, 5°, PR, SM 795.11: J, 20°, PR, SM 795.75: J, 5°, IR, RF 796.64: J, 20°, IR, RF 796.89: J, 10°, IR, RF 796.90: J, 90°, IR, RF 797.13: J, IR, RF 797.24: J, 15°, IR, RF 797.61: J, 20°, IR, RF 799.58: J, IR, RF	10 30 100 300 1000 3000
		100	100	791							
		100	100	792							
		100	100	793							
		100	100	794							
		100	100	795							
		100	100	796							
		100	100	797							
		100	100	798							
		100	100	799							
				800							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	82 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)
HQ3		100	100	800			METAGRANITE: coarse grained, white mottled pink and pale grey, crystalline, massive, crystal reorientation due to metamorphism, with basalt inclusion up to 100 mm in diameter.	FR	VL .2 L .6 M .20 H .60 VH .200 EH		10 30 100 300 1000 3000
		100	100	801						801.67: J, IR, RF	
		100	100	802						802.38: J, 10°, PR, RF	
		100	100	803							
		100	100	804							
		100	100					FR			
		100	100	805						805.21: J, 30°, VN, PR, SM 805.36: J, 20°, SN, UN, RF	
		100	100	806							
		100	100	807			807.00-807.18m: altered mafic inclusions				
		100	100	808			808.00-808.32m: altered mafic inclusions				
		100	100	809							
				810							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	83 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)
HQ3		100	100	810			METAGRANITE: coarse grained, white mottled pink and pale grey, crystalline, massive, crystal reorientation due to metamorphism, with basalt inclusion up to 100 mm in diameter.	FR	VL -2 L -6 M -20 H -60 VH -200 EH	810.05: J, 10°, SN, UN, 1 mm	10 30 100 300 1000 3000
		100	100	811							
		100	100	812							
		100	100	813							
		100	100	814							
		100	100	815							
		100	100	816							
		100	100	817							
		100	100	818							
		100	100	819							
		100	100	820							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	84 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M 2 H 6 VH 60 EH 200	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	820			METAGRANITE: coarse grained, white mottled pink and pale grey, crystalline, massive, crystal reorientation due to metamorphism, with basalt inclusion up to 100 mm in diameter.	FR			
				821							
				822							
		100	100	823							
				824							
				825							
				826							
		100	100	827							
				828							
					828.71						
					50.54		LAMPROPHYRE: fine grained, grey to dark grey mottled pale grey, crystalline, massive.				
		100	95	829							
				830							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	85 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear	Logged:	AAB/DD
		Inclination:	LF160 -87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)
HQ3		100	95	830			LAMPROPHYRE: fine grained, grey to dark grey mottled pale grey, crystalline, massive.	FR	VL .2 L .6 M .20 H .60 VH .200 EH		10 30 100 300 1000 3000
					830.85						
		100	95	831	48.40		GRANODIORITE: fine to coarse grained, black to dark grey mottled pale pink to pale orange, crystalline, massive, 60% alteration of quartz to pale-green to pale-pink.			830.70: SS, 65°, fine to medium gravel and sandy clay, 30 mm	
				832							
		100	97	833						833.05: J, 70°, wh mi calcite, UN, RO	
				834						834.04: J, 65°, wh mi calcite VN, PR	
										834.50-834.63: 95% alteration of quartz to pale-green to pale-pink mineral	
				835							
		100	100	836							
				837							
				838							
		100	100	839							
				840							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	86 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M 2 H 6 VH 20 EH 200	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	840			GRANODIORITE: fine to coarse grained, black to dark grey mottled pale pink to pale orange, crystalline, massive, 60% alteration of quartz to pale-green to pale-pink.	FR			
		100	100	841							
				842							
		100	100	843							
				844						844.60: J, 30°, br, dark gy, gn VN, PR	
				845						844.85: J, 10°, br, dark gy, gn VN, PR	
		100	100	846							
				847							
				848							
		100	100	849							
					849.25		849.25-849.85m: slightly altered, orange-pink to pale green.				
					30.02						
					849.85						
		100	100	850							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	87 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear	Logged:	AAB/DD
			LF160		
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)
HQ3		100	100	850			GRANODIORITE: fine to coarse grained, black to dark grey mottled pale pink to pale orange, crystalline, massive, 60% alteration of quartz to pale-green to pale-pink.	FR			
					850.48						
					28.80		850.48-850.93m: slightly altered pale green.			850.50-850.54: J, 40°, pale gn mi SN, CU, RF	
					850.93					850.80: J, 5 - 20°, pale gn mi SN, CU, RF	
				851	851.04						
					28.24		BASALT: fine grained, black, aphantic, massive.				
		100	100							851.62: J, 0°, gy mi SN, PR, RF	
				852						851.82: J, 10°, gy mi SN, PR, RF 851.83: J, 15°, wh mi VN, PR	
					852.26						
					27.02		GRANODIORITE: fine to coarse grained, black to dark grey mottled pale pink to pale orange, crystalline, massive, with some healed sub-vertical defects.				
					852.76						
					26.52		852.76-852.97m: slightly altered pink to pale green.				
					852.96						
				853	853.08		BASALT: fine to medium grained, black mottled grey to white, crystalline, massive.				
					26.18		853.08-853.36m: slightly altered pink-orange.				
					853.36		GRANODIORITE: fine to coarse grained, black to dark grey mottled pale pink to pale orange, crystalline, massive, with some healed sub-vertical defects.				
					853.81						
					25.47		BASALT: fine grained, black, aphantic, massive.				
				854	854.36						
		100	100		24.92		GRANODIORITE: fine to coarse grained, black to dark grey mottled pale pink to pale orange, crystalline, with basalt inclusion, highly altered granite, white and grey alteration.				
				855							
					855.50						
					23.78		Pink, white and pale grey.				
					855.85						
					23.43		White, grey and pale pink.				
				856							
				857							
					857.20						
		100	100		22.08		MIXED LAMPROPHYRE AND GRANITE: lamprophyre is fine grained, dark grey and white moderately altered, porphyritic, up to 300 mm thickness; granite is fine to medium grained, pale grey to grey, pink and brown, crystalline, massive.				
				858							
					858.15						
					21.14		GRANODIORITE: fine to coarse grained, black to dark grey mottled pale pink to pale orange, crystalline, massive, highly altered granite, white and grey alteration.				
				859							
		100	100								
				860							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	88 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M 2 H 6 VH 20 EH 60	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	860			GRANODIORITE: fine to coarse grained, black to dark grey mottled pale pink to pale orange, crystalline, massive, highly altered granite, white and grey alteration.	FR			
				861						861.52: J, 15°, bk mi SN, UN, RF	
				862							
		100	100	863							
				864							
					864.22						
					15.07		BASALT: fine grained, pale yellow and pale grey, crystalline, massive, highly altered.				
					864.48						
					14.81		GRANODIORITE: fine to coarse grained, black to dark grey mottled pale pink to pale orange, crystalline, massive, highly altered granite, white and grey alteration.				
		100	100	865							
				866							
				867							
					867.70						
					867.90		BASALT: fine grained, dark grey to black, crystalline, massive, quartz vein at lower contact, at 60 degrees contacts.			867.83: J, 70°, VN, PR	
				868	11.40		GRANODIORITE: fine to coarse grained, dark grey, and white, crystalline, massive.			867.86: J, 70°, VN, PR	
					868.97					868.80: J, 65°, PR, SM	
		100	100	869	10.33		BASALT: fine grained, black, aphantic, massive.				
				870							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	89 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)
HQ3		100	100	870			BASALT: fine grained, black, aphantic, massive.	FR	VL .2 L .6 M .20 H .60 VH .200 EH	870.78: J, 5°, wh mi VN, UN, RF	10 30 100 300 1000 3000
				871							
				872	872.00 7.31		Undulating basalt/granite contact intersected.				
		100	100		872.70 6.61		GRANODIORITE: fine to medium grained, black to dark grey mottled pale pink to pale orange, crystalline, massive.				
				873						873.68: J, 65°, CN, PR	
				874						873.74: J, 80°, CN, IR	
		100	100	875							
				876							
				877							
				878							
		100	100	879							
				880							

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	90 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M 2 H 6 VH 20 EH 60 200	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	880			GRANODIORITE: fine to medium grained, black to dark grey mottled pale pink to pale orange, crystalline, massive.	FR		880.11: J, 70°, CN, PR 880.25: J, 70°, VN, PR	
							880.73-880.9m: slightly altered green to grey				
				881						880.83-880.97: Jsx4, 70°, VN, PR	
										881.70: J, 40°	
				882							
							882.80-885.00m: slightly altered green to grey				
				883							
					883.70						
					-4.38		BASALT: fine grained, dark green grey, massive.			883.53-883.92: SZ, 20 - 75°, multiple wedged shear CU surfaces (30-100mm spacing), wh mi VN, generally closed, significant defect	
					883.96						
				884	-4.64		GRANODIORITE: fine to medium grained, black to dark grey mottled pale pink to pale orange, crystalline, massive.			884.23: J, 25°, SN, PR	
		100	100								
					885.00						
				885	-5.68		885.00-885.67m: moderately altered brown and pink to orange			885.22: J, 40°, bk mi SN, UN, SM	
					885.75					885.61: J, 10°, VN, CU, RF	
					-6.43		BASALT: fine to coarse grained, pale yellow, pale brown and grey, crystalline, massive.			885.74: J, 10°, CN, UN, SM	
				886	886.05					885.91: J, 0 - 20°, gy mi, CU, SM	
					-6.73		GRANODIORITE: fine to medium grained, black to dark grey mottled pale pink to pale orange, crystalline, highly altered granite, white and grey alteration.			885.94-886.13: J, 70°, CN, UN, SM	
				887							
		100	100								
				888							
				889							
		100	100								
				890							

Comments

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Date 2/12/2024

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir	Sheet	91 OF 92
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Date Started:	30/10/2023
Client:	Queensland Hydro	Surface RL:	878.1 m AHD	Date Completed:	23/3/2024
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear LF160	Logged:	AAB/DD
		Inclination:	-87° Direction: 233°		

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M 2 H 6 VH 60 EH 200	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	890			GRANODIORITE: fine to medium grained, black to dark grey mottled pale pink to pale orange, crystalline, highly altered granite, white and grey alteration.	FR			
				891						891.46: J, 70°, bk mi SN, PR, SM	
		100	100	892							
				893							
		100	100	894							
				895							
		100	100	896							
				897							
		100	100	898							
				899			898.82-898.99m: slightly altered green to grey			898.91: J, 15°, br-yl mi SN, UN, RF 898.91-899.04: J, 70°, br-yl mi SN, UN, RF	
				900							

Comments

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BOREHOLE: BHUA-05

Project:	Pioneer-Burdekin PHES	Position:	Upper Reservoir		
Location:	Netherdale/Dalrymple Heights	Coords:	659313.2 m E 7666351.2 m N MGA2020-55	Sheet	92 OF 92
Client:	Queensland Hydro	Surface RL:	878.1 m AHD		
Job No.:	PS138693	Contractor:	Twin Hills Engineering & Drilling Drill Rig: Boart Longyear	Date Started:	30/10/2023
			LF160	Date Completed:	23/3/2024
		Inclination:	-87° Direction: 233°	Logged:	AAB/DD

Drilling						Field Material Description				Defect Information	
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa) ■ - UCS VL .2 L .6 M .20 H .60 VH .200 EH	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm) 10 30 100 300 1000 3000
HQ3		100	100	900				FR			
					900.36 -21.02		Hole Terminated at 900.36 m Target depth. Vibrating Wire Piezometers Installed				
				901							
				902							
				903							
				904							
				905							
				906							
				907							
				908							
				909							
				910							

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Comments

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	5.70	6.20			J				br, gy	SN	IR						multiple defects, various angles, 10-30mm spacing
BHUA-05	5.85				hJ		90				PR	SM					
BHUA-05	6.62	6.68			hJ		40		Fe		UN						
BHUA-05	6.62	6.80			hJ	x2	85		Fe		PR						
BHUA-05	6.80				hJ		90		br, wh		PR			2			
BHUA-05	6.80				hJ		60				PR						
BHUA-05	7.02	7.27			J		85		Fe, or	SN	PR	SM					
BHUA-05	7.06				J		30		Fe	SN	PR	SM					
BHUA-05	7.26				J		30		gy mi	SN	PR	RF					
BHUA-05	7.32	7.37			hJ	x2	30		gy mi		UN						
BHUA-05	7.43				J		30		Fe, gy mi	SN	UN	RF					
BHUA-05	7.45	7.80			FZ				Fe	SN	IR	SM					multiple defects, various angles, 10-30mm spacing
BHUA-05	7.50				J		90			CT	CU	RF					
BHUA-05	7.80	8.00			FZ				Fe	SN	IR	SM					multiple defects, various angles, 0-10mm spacing
BHUA-05	8.00	8.30			FZ				Fe	SN	IR	SM					multiple defects, various angles, 10-30mm spacing
BHUA-05	8.30	9.80			hJs		20	30	gy mi		PR						multiple defects, 10-30mm spacing
BHUA-05	8.30	11.46			hJs		90		wh-yl mi		PR						multiple defects, 300-1000mm spacing
BHUA-05	8.54	10.82			hJ	x13	10	40			PR						possible DB on hJ
BHUA-05	9.00				V		85		wh mi	VN	ST	SM					
BHUA-05	9.38				SZ		15	20									possible SZ, horizontal deflection 20mm
BHUA-05	9.40				V		5		wh and gn	VN	PR	SM		2			
BHUA-05	9.65				hJ		0		wh-yl mi		UN			5			
BHUA-05	9.67				hJ		25		wh-yl mi		PR			3			
BHUA-05	9.85				hJ		85			CT	CU	SM					
BHUA-05	9.85				hJ		60				PR	SM					
BHUA-05	10.05				hJ		50		wh-yl mi		PR						
BHUA-05	10.32	10.43			hJ		60		wh-yl mi		UN						
BHUA-05	10.48	10.62			AZ				gy mi		UN			1			multiple defects, 0-10mm spacing, generally sub-horizontal
BHUA-05	10.70				V		80		wh		CU	SM		4			
BHUA-05	10.70				hJ		70				PR	SM					
BHUA-05	10.70				hJ		70				PR	SM					
BHUA-05	10.70				V		85		wh		CU	SM		4			
BHUA-05	11.15				V		70		wh		CU	SM		2			
BHUA-05	11.26	11.45			AZ				yl-gn mi		IR						multiple defects, various angles, 0-10mm spacing
BHUA-05	11.30				J		70			VN	UN	SM					
BHUA-05	11.30	11.46			hJ		90		wh		PR	SM		1			
BHUA-05	11.30				hJ		70		bk		PR	SM					
BHUA-05	11.60	11.85			hJ		90		yl-gn mi		PR	SM		1			
BHUA-05	11.60				V		70		bk		CU	SM		10			
BHUA-05	11.60	11.72			J		90			CN	UN	RF					
BHUA-05	11.90				hJ		80		yl-gn mi		PR	SM		1			
BHUA-05	11.90				hJ		80		yl-gn mi		PR	SM		1			
BHUA-05	11.94	13.40			hJ		90		wh mi		UN			2			
BHUA-05	11.98	12.15			hJ		80	90	bk mi		ST			5			
BHUA-05	12.10	12.22			hJ		60		yl-gn mi		PR			5			
BHUA-05	12.30				V		50		yl-gn mi		PR			10			
BHUA-05	12.40				V		0	20	yl-gn mi		PR			5			
BHUA-05	12.70				hJ		70		wh mi		CU						
BHUA-05	12.75				hJ		20	90	yl-gn mi		UN						
BHUA-05	12.80	13.00			V		85		bk mi		UN			5			
BHUA-05	12.85				V		20		bk mi		PR			10			
BHUA-05	13.10	13.37			V		65		yl-gn mi		PR			15			
BHUA-05	13.15				hJ		50				PR						
BHUA-05	13.37	13.55			hJ		65		wh mi		PR						
BHUA-05	13.53				hJ		5		wh mi		UN						
BHUA-05	13.60				J		30			CN	UN	RF					
BHUA-05	13.60	13.90			hJ	x4	60		wh, yl-gn mi		IR			15			yl-gn mi alt halo 10mm
BHUA-05	13.62	13.70			hJ		85		wh mi		CU						
BHUA-05	14.00				J		30			CN	UN	RF					
BHUA-05	14.00	14.20			hJ	x2	80	90	wh mi		PR			2			
BHUA-05	14.10				V		40		wh, gn mi		PR			3			
BHUA-05	14.15	14.25			V		40		gn mi		UN			5			
BHUA-05	14.20				J		15			CN	UN	RF					
BHUA-05	14.20	14.32			hJ		50		wh mi		UN						
BHUA-05	14.39	14.46			hJ		45		bk mi		UN						
BHUA-05	14.50				hJ		90		wh		PR	SM		1			
BHUA-05	14.50				hJ		70		wh		PR			1			
BHUA-05	14.51	14.63			AZ				wh-gn mi		IR			1			multiple defects, generally sub-vertical, 0-10mm spacing
BHUA-05	14.55				hJ		80		wh		PR			1			
BHUA-05	14.60	15.00			J		85		wh mi		VN	RF					likely hJ opened by drilling
BHUA-05	14.64	14.82			hJ		85		wh mi		UN						
BHUA-05	14.80				J		30				UN	RF					
BHUA-05	15.05	15.20			hJ		90		wh		PR			1			
BHUA-05	15.10	15.25			hJ		75		wh		PR			1			
BHUA-05	15.10	15.27			hJ		80		wh		PR			1			
BHUA-05	15.30	15.44			J		70		wh-gn mi	VN	UN	RF					
BHUA-05	15.35				J		60		wh mi	VN	UN	RF					
BHUA-05	15.37	15.85			hJ	x4	80	90	wh-gn mi		PR			3			
BHUA-05	15.40				J		10		wh mi	VN	UN	RF					

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	15.40	15.52			J		70		wh mi	VN	UN	RF					
BHUA-05	15.73				J		0	20	wh mi	VN	UN	RF					
BHUA-05	15.73	15.90			J		75				UN						closed
BHUA-05	15.88	16.12			hJ		70		wh-gn mi		UN						gn mi alt halo 5mm
BHUA-05	16.05	16.31			V		80		wh, gn		PR						
BHUA-05	16.09	16.33			hJ	x2	75		wh-gn mi		UN						
BHUA-05	16.21				hJ		20		gy mi		UN			1			
BHUA-05	16.40	16.50			hJ		70		gy mi		PR						
BHUA-05	16.43				hJ		0	20	gy mi		CU						
BHUA-05	16.45	16.75			hJ	x2	80	90	wh mi		PR			2			
BHUA-05	16.51				hJ		10		wh mi		UN						
BHUA-05	16.60				J		0	30		CN	UN	RF					
BHUA-05	16.60	16.75			hJ		90		gy mi		PR						
BHUA-05	16.61	16.87			AZ		70	90	wh-gn mi		UN						multiple defects, generally sub-vertical to vertical, 10-30mm spacing
BHUA-05	16.62	16.72			hJ		45		gy mi		UN						
BHUA-05	16.64				hJ		55		wh mi		PR						
BHUA-05	16.75				J		5		gn, br mi	SN	IR	RF					
BHUA-05	16.75	17.06			AZ		80	90	wh mi		UN			1			multiple defects, generally sub-vertical, 0-10mm spacing
BHUA-05	16.85	17.05			J		50		gn, br mi	SN	UN	RF					
BHUA-05	16.90				J		10		gn, br mi	SN	UN	RF					
BHUA-05	16.99	17.11			hJ	x3	60		gy mi		UN						
BHUA-05	17.03				J		0		gn, br mi	SN	UN	RF					
BHUA-05	17.07				J		10		gn, br mi	SN	UN	RF					
BHUA-05	17.10	17.68			V		80	90	wh, gn mi		UN			8			minor alt halo, yl mi
BHUA-05	17.14				J		20			CN	UN	RF					
BHUA-05	17.22				hJ		20		gy mi		UN						
BHUA-05	17.27				J		20		wh-gn mi	SN	PR	RF					
BHUA-05	17.50				CO		5		or-pk mi	SN	UN	RF					
BHUA-05	17.70				J		5			CN	UN	RF					
BHUA-05	17.80	18.00			hJ		70		bk mi		PR						
BHUA-05	17.85				V		75	90	br mi	SN	PR	SM		3			
BHUA-05	17.92	18.00			hJ	x3	50	80	wh mi		UN						
BHUA-05	17.92	18.25			J		50	90	wh mi	CT	UN	RF					open to healed
BHUA-05	18.20				J		60				CU	RF					
BHUA-05	18.45	19.28			V	x3	70	90	wh mi		UN			10			gn mi alt halo 5-20mm
BHUA-05	18.53				J		20		wh mi	CT	UN	RF					
BHUA-05	18.55	18.80			DB	x6											
BHUA-05	18.93				J		10		wh mi	SN	PR	RF					
BHUA-05	19.02				HB												
BHUA-05	19.08				J		10		wh mi	VN	IR	RF					
BHUA-05	19.19				DB												
BHUA-05	19.25	19.37			hJ		15	70	wh-gn mi		PR						
BHUA-05	19.29				J		15		wh-gn mi	SN	PR	RF					
BHUA-05	19.45				J		15			CN	UN	RF					
BHUA-05	19.48	19.62			hJ		75		gy mi		UN						
BHUA-05	19.50				hJ	/CO	60		bk mi		UN						
BHUA-05	19.60				hJ		85		gy mi								
BHUA-05	19.80				hJ		45		wh		PR			1			
BHUA-05	19.82				hJ		15		pl yl mi		PR						
BHUA-05	19.85				hJ		60		bk	CN	PR	SM		1			
BHUA-05	19.90				hJ		45		wh mi Qtz	VN	PR	SM		1			
BHUA-05	19.90				hJ		45		wh mi Qtz	VN	PR	SM		1			
BHUA-05	19.90				hJ		85		wh mi Qtz	VN	PR	SM					
BHUA-05	20.00				hJ		70										
BHUA-05	20.18				J		5			CN	UN	RF					
BHUA-05	20.20				hJ		20		wh	VN	UN	SM					
BHUA-05	20.25				hJ		40		bk	VN	PR	SM					
BHUA-05	20.25				V		70				UN						
BHUA-05	20.25				V		70				UN						
BHUA-05	20.65				hJ		70		gn bk	VN	PR	SM					
BHUA-05	20.66				hJ		90		wh	VN	PR	SM					
BHUA-05	20.74				J		10		pl yl mi	SN	UN	RF					
BHUA-05	20.75				hJ		90		wh								
BHUA-05	20.80				hJ		70		gn, bk	VN	PR	SM					
BHUA-05	20.83				hJ		80		wh mi	VN	PR	SM		1			
BHUA-05	20.88				DB												
BHUA-05	20.90				hJ		70			VN	CU	SM					
BHUA-05	20.95				V		85		wh, Qtz, gn chlorite and epidotes	VN	PR	SM		2			
BHUA-05	20.95				hJ		80		wh Qtz	VN	PR	SM		1			
BHUA-05	21.00				hJ		85		bk	VN	PR	SM		1			
BHUA-05	21.15				hJ		85		bk	VN	PR	SM					
BHUA-05	21.40				hJ		70		wh								
BHUA-05	21.50				hJ		60		wh								
BHUA-05	21.60				hJ		70		wh, gn chlorite	VN	PR	SM					
BHUA-05	21.88				DB												
BHUA-05	22.00				hJ		80		wh	VN	PR	SM					
BHUA-05	22.10				hJ		75		wh	VN	PR	SM					
BHUA-05	22.25				hJ		10		wh								
BHUA-05	22.25				hJ		90		wh	VN	CU	SM					

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	22.40				hJ		90		wh	VN	CU	SM					
BHUA-05	22.45				hJ		75										
BHUA-05	22.50				hJ		90										
BHUA-05	22.72				DB												
BHUA-05	22.80				hJ		90										
BHUA-05	22.80				V		80		wh, gn chlorite	VN	PR	SM		3			
BHUA-05	23.00				V		70		wh, gn chlorite	VN	PR	SM		2			
BHUA-05	23.03				DB												
BHUA-05	23.10				hJ		5		gn	VN	PR	SM					
BHUA-05	23.10				V		70		gn	VN	PR	SM					
BHUA-05	23.12				J		25		pl yl mi	SN	UN	RF					
BHUA-05	23.25				V		5		wh, gn chlorite	VN	PR	SM		2			
BHUA-05	23.35				hJ		5		gn	VN	PR	SM					
BHUA-05	23.40				hJ		80		gn	VN	CU	SM					
BHUA-05	23.41				J		20		pl yl mi	SN	PR	SM					
BHUA-05	23.50				hJ		70		wh	VN	PR	SM					
BHUA-05	23.60				hJ		5		gn	VN	PR	SM					
BHUA-05	23.60				hJ		60		gn	VN	PR	SM					
BHUA-05	23.60				hJ		70		gn	VN	PR	SM					
BHUA-05	23.70				hJ		85		wh	VN	PR	SM					
BHUA-05	23.95				hJ		5		gn	VN	PR	SM					
BHUA-05	24.10				V		30		wh, Qtz	VN	PR	SM		1			
BHUA-05	24.10				hJ		10		gn	VN	PR	SM					
BHUA-05	24.10				hJ		10		gn	VN	PR	SM					
BHUA-05	24.16				J		15		pl yl mi	SN	UN	RF					
BHUA-05	24.20				hJ		10		wh	VN	PR	SM					
BHUA-05	24.30				hJ		85		gn	VN	PR	SM					
BHUA-05	24.30				hJ		85		wh	SN	PR	SM					
BHUA-05	25.10				J		15				IR						
BHUA-05	25.10	26.06			hJ		85	90	gy mi		UN						
BHUA-05	25.23	25.40			hJ		0	45	gy mi		CU						pl yl mi alt halo
BHUA-05	25.61				J		15		pl yl mi	SN	UN	RF					
BHUA-05	25.66				hJ		10		gy mi		UN						pl yl mi alt halo
BHUA-05	26.05	26.77			hJs		85	90	gy mi		UN			1			multiple defects, 10-30mm spacing
BHUA-05	26.80				DB												
BHUA-05	26.83				hJ		15		pl yl mi		PR						pl yl mi alt halo 2mm
BHUA-05	27.00				DB												
BHUA-05	27.15				J		5		wh mi, Fe	SN	IR	RF					
BHUA-05	27.25				hJ		0	10	pl yl mi		UN						
BHUA-05	27.30				DB		0				IR	VR					
BHUA-05	27.38				hJ		35		gn, bk	VN	PR	SM					
BHUA-05	27.46				J		5		wh mi, Fe	SN	UN	RF					
BHUA-05	27.50				hJ		60		bk		PR						
BHUA-05	27.60				J		5		wh mi, Fe	SN	UN	RF					
BHUA-05	27.60				hJ		60		wh	VN	PR	SM					
BHUA-05	27.65				hJ		5		gn, yl	VN	PR	SM		2			
BHUA-05	27.68				DB		0				IR	VR					
BHUA-05	27.78				DB		0				IR	VR					
BHUA-05	27.78				hJ		50		gn yl		CU	SM		2			
BHUA-05	27.85				hJ		5		bk	VN	PR	SM					
BHUA-05	27.89				hJ		10		bk	VN	PR	SM					
BHUA-05	27.93				hJ		5		gn, yl mi	VN	PR	SM					
BHUA-05	27.95				DB		0				IR	VR					
BHUA-05	27.95				CO		70		contact between granodiorite and glassy basalt	CN	CU	RF					
BHUA-05	27.95				hJ		90		wh	VN	PR	SM					
BHUA-05	28.00				hJ		90		wh, gn	VN	PR	SM					
BHUA-05	28.03				hJ		5		bk	VN	PR	SM					
BHUA-05	28.04				DB		0				IR	VR					
BHUA-05	28.16				DB		0				IR	VR					
BHUA-05	28.21				hJ		5		wh	VN	PR	SM					
BHUA-05	28.25				hJ		5		wh	VN	PR	SM					
BHUA-05	28.30				hJ		10		wh		PR	SM					
BHUA-05	28.32				DB		0				IR	VR					
BHUA-05	28.34				hJ		5			VN	PR	SM					
BHUA-05	28.38				hJ		5			VN	PR	SM					
BHUA-05	28.40				hJ		10			VN	PR	SM					
BHUA-05	28.44				hJ		20			VN	PR	SM					
BHUA-05	28.50				DB		0				IR	VR					
BHUA-05	28.60				DB		0				IR	VR					
BHUA-05	28.60				hJ		60		wh	VN	PR	SM					
BHUA-05	28.60				hJ		50		bk	VN	PR	SM					
BHUA-05	28.62				DB		0				IR	VR					
BHUA-05	28.71				hJ		80		bk	VN	PR	SM					
BHUA-05	28.81				DB		0				IR	VR					
BHUA-05	28.84				V		60		bk	VN	PR	SM					
BHUA-05	28.90				V		60		bk, gn	VN	PR	SM					
BHUA-05	29.00				DB		0				IR	VR					
BHUA-05	29.00				hJ		80		wh	VN	PR	SM					

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	29.50				hJ		40		wh	VN	PR	SM		10			
BHUA-05	29.64				hJ		25		bk	VN	PR	SM					
BHUA-05	29.67				hJ		35		wh	VN	PR	SM		20			
BHUA-05	29.72				hJ		25										
BHUA-05	29.73				hJ		25										
BHUA-05	29.74				hJ		25										
BHUA-05	29.75				hJ		25										
BHUA-05	29.76				hJ		25										
BHUA-05	29.80				hJ		25										
BHUA-05	29.80				hJ		70										
BHUA-05	29.81				J		25			CN	UN	RF					
BHUA-05	29.84				hJ		25										
BHUA-05	30.15				hJ		30										
BHUA-05	30.20				hJ		25										
BHUA-05	30.25				hJ		25										
BHUA-05	30.28				hJ		25										
BHUA-05	30.30				hJ		25										
BHUA-05	30.30				hJ		90										
BHUA-05	30.30				V		60		gn	VN	CU	SM		2			
BHUA-05	30.50				J		30			CN	UN	SM					
BHUA-05	30.70				hJ		70										
BHUA-05	30.80				J		30				CU	RF					
BHUA-05	30.80				J		30				CU	RF					
BHUA-05	30.80				J		30				CU	RF					
BHUA-05	31.05				hJ		80		wh	VN	PR	SM					
BHUA-05	31.20				hJ		40		yl	VN	PR	SM					
BHUA-05	31.45				hJ		60		yl	VN	PR	SM					
BHUA-05	31.60				hJ		40		yl	VN	PR	SM					
BHUA-05	32.00				hJ		80		wh	VN	PR	SM					
BHUA-05	32.20				hJ		70										
BHUA-05	32.32				hJ		5				PR	SM					
BHUA-05	32.44				hJ		20										
BHUA-05	32.80				hJ		40			VN	PR	SM					
BHUA-05	32.90				hJ		70			VN	PR	SM					
BHUA-05	32.94				hJ		5			VN	PR	SM					
BHUA-05	33.00				hJ		70			VN	PR	SM					
BHUA-05	33.10				hJ		70			VN	PR	SM					
BHUA-05	33.13				hJ		70			VN	PR	SM					
BHUA-05	33.15				hJ		70			VN	PR	SM					
BHUA-05	33.15				hJ		90			VN	PR	SM					
BHUA-05	33.17				hJ		40				UN						
BHUA-05	33.20				J		10				IR	VR					
BHUA-05	33.20				hJ		90										
BHUA-05	33.25				hJ		90			VN	PR	SM					
BHUA-05	33.28				hJ		5			VN	PR	SM					
BHUA-05	33.33				hJ		90			CN	PR	SM					
BHUA-05	33.40				V		70		yl, gn	VN	PR	SM		3			
BHUA-05	33.40				hJ		80										
BHUA-05	33.45				hJ		60										
BHUA-05	33.48				hJ		5			VN	PR	SM					
BHUA-05	33.55				hJ		5										
BHUA-05	33.63				CO		80		contact between basalt and glassy basalt with qtz carb oxidised chloritised veining 5mm cracked	SN	CU	RF					
BHUA-05	33.63	34.04			J		80		gn mi	CN	UN	SM		3			
BHUA-05	33.68				J		20		wh mi	SN	PR	SM					
BHUA-05	33.70				J	/V	20			CN							
BHUA-05	33.70				hJ	x2	80		wh mi		UN						
BHUA-05	33.78				J		20		pl yl mi	SN	PR	SM					
BHUA-05	33.81				DB												
BHUA-05	33.85				hJ		5		wh mi		PR						
BHUA-05	33.85				hJ		45		wh mi		PR						
BHUA-05	33.85				hJ		45		wh mi		PR						
BHUA-05	33.87	33.98			J		10			CN	ST	SM					
BHUA-05	33.87	34.10			V		85		gn mi chlorite		UN			3			
BHUA-05	33.87	34.15			V		85		gn mi chlorite		UN			3			
BHUA-05	33.89	34.18			V		75		gn mi chlorite		UN			3			
BHUA-05	33.90	34.05			V		70		gn mi chlorite		UN			3			
BHUA-05	34.00				hJ		70		wh mi								
BHUA-05	34.00				hJ		70		wh mi								
BHUA-05	34.00	34.56			hJ		90		wh mi		PR						
BHUA-05	34.00				V		90		wh mi		UN			3			
BHUA-05	34.05				hJ		15		wh mi		UN						
BHUA-05	34.06				hJ		15		wh mi		UN						
BHUA-05	34.07				hJ		15		wh mi		UN						
BHUA-05	34.09				hJ		15		wh mi		UN						
BHUA-05	34.10	34.40			hJ		80		wh mi		UN						
BHUA-05	34.11				hJ		15		wh mi		UN						
BHUA-05	34.15	34.60			hJ		70		wh mi		UN						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	34.17	34.55			V		70		wh-gn mi		PR			1			
BHUA-05	34.18	34.65			V		75		wh mi		PR			1			
BHUA-05	34.18	34.65			hJ		90		wh mi		UN						
BHUA-05	34.20	34.61			hJ		85		wh mi		UN						
BHUA-05	34.22				J		15		wh mi	CN	PR	SM					
BHUA-05	34.34	34.55			hJ		70		wh mi		PR						
BHUA-05	34.34				hJ		30		wh mi		PR						
BHUA-05	34.34				hJ		30		wh mi		PR						
BHUA-05	34.42				J		20			CN	PR	SM					
BHUA-05	34.47				hJ		15		wh mi		PR						
BHUA-05	34.48	34.68			V		90		wh mi	CT	PR	SM		1			
BHUA-05	34.50	34.68			hJ		70		wh mi		PR						
BHUA-05	34.50				hJ		10		wh mi		PR						
BHUA-05	34.50				hJ		10		wh mi		PR						
BHUA-05	34.50				V		90		bk	CT	PR	SM		1			
BHUA-05	34.57				J		15		wh mi	VN	PR	RF					
BHUA-05	34.60	34.90			hJ		60		wh mi								
BHUA-05	34.60	34.85			hJ		70		wh mi								
BHUA-05	34.67				hJ		15		wh mi								
BHUA-05	34.70				DB												
BHUA-05	34.73	34.85			hJ		70		wh mi								
BHUA-05	34.80	35.12			hJ		60		wh mi		PR						
BHUA-05	34.86				hJ		10		wh mi		UN						
BHUA-05	34.90	35.15			hJ		70		wh mi		PR						
BHUA-05	35.00				DB												
BHUA-05	35.05				J		5			CN	UN	RF					
BHUA-05	35.05				hJ		40		wh mi		PR						
BHUA-05	35.05				hJ		40		wh mi		PR						
BHUA-05	35.15	35.25			hJ		60		wh mi		PR						
BHUA-05	35.20				hJ		5		wh mi		PR						
BHUA-05	35.22				J		10			CN	UN	RF					
BHUA-05	35.30				hJ		5		wh mi		PR						
BHUA-05	35.30				hJ		45		wh mi		PR						
BHUA-05	35.30	35.47			hJ		70		wh mi		UN						
BHUA-05	35.32	35.53			hJ		70		wh mi		UN						
BHUA-05	35.43				hJ		40		wh mi		PR						
BHUA-05	35.45				hJ		5		wh mi		PR						
BHUA-05	35.50	35.64			hJ		60		wh mi		PR						
BHUA-05	35.54				J		15		wh mi	VN	UN	RF					
BHUA-05	35.58				J		20		wh mi	VN	UN	RF					
BHUA-05	35.60				hJ		20		wh mi		PR						
BHUA-05	35.60				hJ		5		wh mi		PR						
BHUA-05	35.60				hJ		5		wh mi		PR						
BHUA-05	35.62	35.73			hJ		75		wh mi		UN						
BHUA-05	35.70	35.90			hJ		80		wh mi		UN						
BHUA-05	35.70	35.91			hJ		90		wh mi		UN						
BHUA-05	35.74				hJ		40		wh mi		PR						
BHUA-05	35.80				hJ		10		wh mi		PR						
BHUA-05	35.85				hJ		30		wh mi		PR						
BHUA-05	35.88				hJ		30		wh mi		PR						
BHUA-05	35.90	36.02			hJ	x3	85		wh mi		PR						
BHUA-05	35.91				hJ		30		wh mi	CN	PR	SM					
BHUA-05	35.95				V		70		gn mi	CN	PR	SM		2			
BHUA-05	36.04	36.12			hJ	x7	30		wh-pl gn mi		PR			1			0-10mm spacing
BHUA-05	36.13	36.31			hJ	x3	30		wh mi		PR			1			30-100mm spacing
BHUA-05	36.18	36.31			hJ		80	90	wh mi		PR			2			
BHUA-05	36.18	36.30			V		80	90	wh, Qtz	CN	PR	SM		1			
BHUA-05	36.38	36.58			AZ		0	45	wh mi		UN			2			0-10mm spacing
BHUA-05	36.44				J		45		wh-yl mi	SN	UN	RF					
BHUA-05	36.50	36.90			V		80		wh mi		UN			5			
BHUA-05	36.65				J		10			CN	UN	RF					
BHUA-05	36.70				hJ		50		wh-pl gn mi		PR						
BHUA-05	36.75				hJ		50		wh-pl gn mi		PR						
BHUA-05	36.75				hJ		70		wh-pl gn mi		PR						
BHUA-05	36.85				hJ		70		wh-pl gn mi		PR						
BHUA-05	36.85				hJ		30		wh-pl gn mi		PR						
BHUA-05	36.85				hJ		30		wh-pl gn mi		PR						
BHUA-05	36.97	37.26			J		85	90		CN	UN	RF					
BHUA-05	36.98				hJ		5		wh-pl gn mi		PR						
BHUA-05	37.04				hJ		45		wh mi	CN	PR	SM					
BHUA-05	37.05				hJ		45		wh mi		PR	SM					
BHUA-05	37.05	39.25			J		80	90	wh mi	CT	UN	RF					
BHUA-05	37.12				hJ		45		wh mi		PR	SM					
BHUA-05	37.13				hJ		40		wh mi		PR	SM					
BHUA-05	37.14				V		40		wh mi	CT	PR	SM		3			
BHUA-05	37.15				hJ		85		wh mi		PR	SM					
BHUA-05	37.16				hJ		40		wh mi		PR	SM					
BHUA-05	37.18				hJ		50		wh mi		PR	RF					
BHUA-05	37.25				hJ		5		wh mi		PR	SM					

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	37.29				hJ		65		wh mi		PR	SM					
BHUA-05	37.31				hJ		80		wh mi		PR	SM					
BHUA-05	37.40				J		20			CN	ST	RF					
BHUA-05	37.41				hJ		25		wh mi		PR	SM					
BHUA-05	37.43				hJ		40		wh mi		PR	SM					
BHUA-05	37.48				hJ		50		wh mi		PR	SM					
BHUA-05	37.49				hJ		25		dark gn		PR	SM					
BHUA-05	37.50				V		85		wh, cracked qtz vein	CT	UN	RF					
BHUA-05	37.55				J		45		wh mi	SN	PR	SM					DB on hJ
BHUA-05	37.61				hJ		35		wh mi	SN	PR	SM					
BHUA-05	37.65				J		30		wh mi	SN	PR	RF					DB on hJ
BHUA-05	37.67	37.95			J		70		wh mi	CT	UN	RF					
BHUA-05	37.70				J		50		wh mi	SN	PR	RF					
BHUA-05	37.72				hJ		60		wh mi		PR						
BHUA-05	37.73				hJ		10		wh mi		PR						
BHUA-05	37.74				hJ		45		wh mi		PR						
BHUA-05	37.77				hJ		40		wh mi		PR						
BHUA-05	37.80				J		45		wh mi	SN	PR	RF					DB on hJ
BHUA-05	37.87				hJ		75		wh mi		PR						
BHUA-05	37.91				hJ		60		wh mi		PR						
BHUA-05	37.92				hJ		40		wh mi		PR						
BHUA-05	37.93				J		40		wh mi	SN	PR	RF					DB on hJ
BHUA-05	37.95				hJ		60		wh mi		PR						
BHUA-05	37.96	38.25			V		90		wh mi		PR			1			
BHUA-05	37.97				hJ		65		wh mi		IR						
BHUA-05	37.98				J		40		wh mi	SN	CU	RF					DB on hJ
BHUA-05	38.06				hJ		60		wh mi		PR						
BHUA-05	38.07				hJ		75		wh mi		CU						
BHUA-05	38.10				hJ		45		wh mi		PR						
BHUA-05	38.19				hJ		50		gy mi		PR						
BHUA-05	38.20				V		55		gy mi		PR			3			
BHUA-05	38.20	38.55			V		90		br-wh mi		PR						
BHUA-05	38.34				hJ		5		br mi		PR						
BHUA-05	38.40	38.50			hJ		70		wh mi		PR						
BHUA-05	38.52	39.30			V		85	90	wh mi		PR			2			
BHUA-05	38.57	38.80			hJ		90		wh mi		PR			1			
BHUA-05	38.69	38.75			hJ		80		wh mi		PR			2			
BHUA-05	38.73				V		50		wh mi		PR			1			
BHUA-05	38.76				hJ		50		gn mi		PR						
BHUA-05	38.84	39.18			hJ		75	90	wh mi		PR						
BHUA-05	38.90	39.15			hJ		75	90	wh mi		PR						
BHUA-05	39.05				hJ		10		wh mi		CU						
BHUA-05	39.25				V		80		wh qtz with gn chlorite halo	CN	PR			2			
BHUA-05	39.31				V		75		wh mi		CU			10			
BHUA-05	39.33				hJ		20		wh mi		PR						
BHUA-05	39.34				hJ		50		wh mi		PR			3			
BHUA-05	39.35	39.52			AZ												intersecting healed joints and veins spaced 5-50mm
BHUA-05	39.38	39.50			hJ		80		wh mi		PR						
BHUA-05	39.41				hJ		0		wh mi		CU						
BHUA-05	39.45	39.53			V		75		wh mi		PR			2			
BHUA-05	39.52	39.52			hJ		80		wh mi		PR						
BHUA-05	39.54	39.61			V		50		bk mi		UN						
BHUA-05	39.66	39.89			V		40		gy gn		PR			4			
BHUA-05	39.75	40.10			hJ		70		wh mi		CU						
BHUA-05	39.91	40.10			hJ		85		wh mi		PR						
BHUA-05	40.08				hJ		60		wh mi		PR						
BHUA-05	40.13				hJ		45		wh mi		IR						
BHUA-05	40.13				hJ		0		wh mi		UN						
BHUA-05	40.13				hJ		0		wh mi		UN						
BHUA-05	40.14				J		20		wh mi	VN	ST	SM					
BHUA-05	40.14				hJ		15		wh mi		PR						
BHUA-05	40.14				hJ		15		wh mi		PR						
BHUA-05	40.15				hJ		15		wh mi		PR						
BHUA-05	40.16				hJ		15		wh mi		PR						
BHUA-05	40.18				hJ		35		wh mi		PR						
BHUA-05	40.21				hJ		20		wh mi		PR						
BHUA-05	40.22	40.45			hJ		70		wh mi		PR						
BHUA-05	40.32	40.75			hJ		90		wh mi		PR						
BHUA-05	40.33				hJ		40		wh mi		UN						
BHUA-05	40.34				hJ		70		wh mi		PR						
BHUA-05	40.54	41.24			hJ		90		wh mi		PR						
BHUA-05	40.55	40.92			hJ		80		wh mi		PR						
BHUA-05	40.60	40.80			hJ		80	90	wh mi		PR						
BHUA-05	40.72				hJ		20		wh mi		PR						
BHUA-05	40.77				hJ		40		wh mi		IR						
BHUA-05	40.80				hJ		80		wh mi		PR						
BHUA-05	40.80				hJ		70		wh mi		PR						
BHUA-05	40.81				hJ		40		wh mi		PR						
BHUA-05	40.83	41.15			hJ		90		wh mi		IR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	40.94				hJ		30		wh mi		PR						
BHUA-05	40.95	41.16			hJ		90		wh mi		PR						
BHUA-05	40.96	41.15			hJ		90		wh mi		PR						
BHUA-05	40.97				hJ		40		wh mi		PR						
BHUA-05	41.04				hJ		5		wh mi		PR						
BHUA-05	41.07	41.40			hJ		80		pale gn mi		IR						
BHUA-05	41.12				J		30				PR	RF					
BHUA-05	41.13	41.30			hJ		85		pale gn mi		PR						
BHUA-05	41.22	41.99			AZ				multiple healed defects, various angles, generally sub-horizontal, pl gn infill, IR 0-10mm spacing								
BHUA-05	41.40	41.82			hJ		70		pale gn mi		PR						
BHUA-05	41.40				hJ		70		pale gn mi		PR						
BHUA-05	41.42				hJ		30		pale gn mi		PR						
BHUA-05	41.48				J		20			CN	PR	SM					
BHUA-05	41.48				hJ		10		pale gn mi		PR						
BHUA-05	41.48				hJ		10		pale gn mi		PR						
BHUA-05	41.50				hJ		20		wh mi		PR						
BHUA-05	41.50	42.30			hJ		90		pale gn mi		PR						
BHUA-05	41.53				hJ		80		pale yl mi		PR						
BHUA-05	41.57				hJ		80		pale yl mi		PR						
BHUA-05	41.61				hJ		10		pale yl mi		IR						
BHUA-05	41.71				hJ		45		pl gn mi		UN						
BHUA-05	41.80				hJ		90		pale gn mi		PR						
BHUA-05	41.83				hJ		20		pale gn mi		PR						
BHUA-05	41.87				hJ		40		wh mi		PR						
BHUA-05	41.92				J		5				PR	RF					
BHUA-05	42.01	42.22			hJ		90		wh mi		PR						
BHUA-05	42.12				hJ		5		bk mi		PR						
BHUA-05	42.13				hJ		20		wh mi		PR						
BHUA-05	42.15				hJ		65		wh mi		PR						
BHUA-05	42.15	42.33			hJ		90		wh mi		PR						
BHUA-05	42.22	43.15			hJ		80		wh mi		PR						
BHUA-05	42.23				hJ		60		wh mi		PR						
BHUA-05	42.24				hJ		5		wh mi		PR						
BHUA-05	42.27	42.35			hJ	x3	80		wh mi		IR						
BHUA-05	42.31	42.90			hJ		80		wh mi		UN						
BHUA-05	42.32				hJ		50		wh mi		PR						
BHUA-05	42.37				hJ		65		wh mi		CU						
BHUA-05	42.41				hJ		40		wh mi		ST						
BHUA-05	42.49				hJ		60		wh mi		IR						
BHUA-05	42.51				hJ		50		wh, bk		PR						
BHUA-05	42.59				J		20			CN	PR	RF					
BHUA-05	42.64				hJ		5		wh mi		PR						
BHUA-05	42.66				hJ		50		wh mi		PR						
BHUA-05	42.67				hJ		20		wh mi		PR						
BHUA-05	42.72				hJ		20		wh mi		PR						
BHUA-05	42.77				hJ		20		wh mi		PR						
BHUA-05	42.79				hJ		20		wh mi		PR						
BHUA-05	42.82				J		30				PR	RF					
BHUA-05	42.82				hJ		20		wh mi		PR						
BHUA-05	42.82				hJ		20		wh mi		PR						
BHUA-05	42.86				hJ		5		wh mi		PR						
BHUA-05	42.87				hJ		20		wh mi		PR						
BHUA-05	42.87	43.41			hJ		90		wh mi		PR						
BHUA-05	42.89	43.22			hJ		90		wh mi		IR						
BHUA-05	42.90				V		80		wh qtz carbonate vein		PR			3			
BHUA-05	42.90				hJ		40		wh mi		PR						
BHUA-05	42.90				hJ		35		wh mi		PR						
BHUA-05	42.90				hJ		35		wh mi		PR						
BHUA-05	42.90				hJ		40		wh mi		PR						
BHUA-05	42.94				hJ		60		wh mi		PR						
BHUA-05	42.95				hJ		80		wh mi		PR						
BHUA-05	42.95	43.10			hJ		90		gn-wh mi		PR						
BHUA-05	43.00				hJ		30		gn-wh mi		PR						
BHUA-05	43.00				hJ		70		gn-wh mi		PR						
BHUA-05	43.00				V		30		gn-wh mi		PR			2			
BHUA-05	43.01				hJ		60		gn-wh mi		PR						
BHUA-05	43.06				hJ		30		gn-wh mi		PR						
BHUA-05	43.06				hJ		50		gn-wh mi		PR						
BHUA-05	43.06				hJ		10		gn-wh mi		PR						
BHUA-05	43.10				hJ		10		gn-wh mi		PR						
BHUA-05	43.10				hJ		10		gn-wh mi		PR						
BHUA-05	43.11				J		30		gn-wh mi		PR						
BHUA-05	43.11				hJ		10		gn-wh mi		PR						
BHUA-05	43.11				hJ		10		gn-wh mi		PR						
BHUA-05	43.15				V		5		gn-wh mi		PR			1			
BHUA-05	43.21	43.55			hJ		85		gn-wh mi		PR						
BHUA-05	43.25	43.45			hJ		85		gn-wh mi		PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	43.30	43.55			hJ		70		gn-wh mi		PR						
BHUA-05	43.47				V		40		gn-wh mi		PR						
BHUA-05	43.50				hJ		60		gn-wh mi		PR						
BHUA-05	43.50				hJ		60		gn-wh mi		PR						
BHUA-05	43.55	44.18			hJ		90		gn-wh mi		PR						
BHUA-05	43.56				J		30		gn-wh mi		PR	SM					
BHUA-05	43.58	43.74			hJ		80		gn-wh mi		PR						
BHUA-05	43.60				hJ		60		gn-wh mi		PR						
BHUA-05	43.60	44.11			hJ		90		gn-wh mi		PR						
BHUA-05	43.63				hJ		5		gn-wh mi		PR						
BHUA-05	43.66				hJ		5		gn-wh mi		PR						
BHUA-05	43.79				J		10		gn-wh mi		PR	RF					
BHUA-05	43.82				hJ		5		gn-wh mi		PR						
BHUA-05	43.84				hJ		30		gn-wh mi		PR						
BHUA-05	43.84				hJ		5		gn-wh mi		PR						
BHUA-05	43.84				hJ		5		gn-wh mi		PR						
BHUA-05	43.90				hJ		45		gn-wh mi		PR						
BHUA-05	43.90				hJ		30		gn-wh mi		PR						
BHUA-05	43.91				hJ		5		gn-wh mi		PR						
BHUA-05	43.95				hJ		70		gn-wh mi		PR						
BHUA-05	44.05				hJ		15		gn-wh mi		PR						
BHUA-05	44.07	44.35			hJ		85		gn-wh mi		PR						
BHUA-05	44.08				hJ		15		gn-wh mi		PR						
BHUA-05	44.10				hJ		10		gn-wh mi		PR						
BHUA-05	44.11				hJ		15		gn-wh mi		PR						
BHUA-05	44.15				hJ		5		gn-wh mi		PR						
BHUA-05	44.17				hJ		30		gn-wh mi		PR						
BHUA-05	44.18				hJ		30		gn-wh mi		PR						
BHUA-05	44.19				hJ		5		gn-wh mi		PR						
BHUA-05	44.20				hJ		60		gn-wh mi		PR						
BHUA-05	44.20	44.47			hJ		90		gn-wh mi		PR						
BHUA-05	44.21	44.34			hJ		85		gn-wh mi		PR						
BHUA-05	44.23				hJ		60		gn-wh mi		PR						
BHUA-05	44.25				DB												
BHUA-05	44.28				hJ		50		gn-wh mi		PR						
BHUA-05	44.39				hJ		30		gn-wh mi		PR						
BHUA-05	44.41				hJ		5		gn-wh mi		PR						
BHUA-05	44.44				hJ		15		gn-wh mi		PR						
BHUA-05	44.45				hJ		30		gn-wh mi		PR						
BHUA-05	44.50				hJ		20		gn-wh mi		PR						
BHUA-05	44.50				hJ		30		gn-wh mi		PR						
BHUA-05	44.52				hJ		30		gn-wh mi		PR						
BHUA-05	44.53				V		0		gn-wh mi		PR						closed
BHUA-05	44.53				hJ		45		gn-wh mi		PR						
BHUA-05	44.54				V		50		gn-wh mi		PR			1			
BHUA-05	44.55				hJ		5		gn-wh mi		PR						
BHUA-05	44.56				hJ		5		gn-wh mi		PR						
BHUA-05	44.60				hJ		10		gn-wh mi		PR						
BHUA-05	44.62				J		20			CN	ST	SM					
BHUA-05	44.63				hJ		15		gn-wh mi		PR						
BHUA-05	44.63				hJ		5		gn-wh mi		PR						
BHUA-05	44.67				hJ		5		gn-wh mi		PR						
BHUA-05	44.71				hJ		5		gn-wh mi		PR						
BHUA-05	44.73				hJ		5		gn-wh mi		PR						
BHUA-05	44.73				hJ		30		gn-wh mi		PR						
BHUA-05	44.80				hJ		10		gn-wh mi		PR						
BHUA-05	44.88				hJ		60		gn-wh mi		PR						
BHUA-05	44.90				hJ		45		gn-wh mi		PR						
BHUA-05	44.96				hJ		40		gn-wh mi		PR						
BHUA-05	45.00				hJ		30		gn-wh mi		PR						
BHUA-05	45.03				hJ		45		gn-wh mi		PR						
BHUA-05	45.05				hJ		45		gn-wh mi		PR						
BHUA-05	45.08				hJ		45		gn-wh mi		PR						
BHUA-05	45.13				hJ		40		gn-wh mi		PR						
BHUA-05	45.18				hJ		35		gn-wh mi		PR						
BHUA-05	45.23				hJ		30		gn-wh mi		PR						
BHUA-05	45.32				hJ		80		gn-wh mi		PR						
BHUA-05	45.34				hJ		30		gn-wh mi		PR						
BHUA-05	45.40				J		10			CN	PR	SM					
BHUA-05	45.40	46.08			hJ		90		gn-wh mi		PR						
BHUA-05	45.42				hJ		30		gn-wh mi		PR						
BHUA-05	45.47	46.00			hJs		80	90	gn-wh mi		UN						multiple defects, 30-100mm spacing
BHUA-05	45.74				J		15		gn-wh mi	SN	PR	RF					
BHUA-05	45.80				hJ		50		gn-wh mi		PR						
BHUA-05	45.81				hJ		40		gn-wh mi		PR						
BHUA-05	45.81				hJ		30		gn-wh mi		PR						
BHUA-05	45.92				hJ		5		gn-wh mi		PR						
BHUA-05	45.95				hJ		20		gn-wh mi		PR						
BHUA-05	46.05				J		30		gn-wh mi	SN	PR	SM					

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	46.06				hJ		10		gn-wh mi		PR						
BHUA-05	46.08				hJ		5		yl-gn mi		PR						
BHUA-05	46.10				hJ		5		yl-gn mi		PR						
BHUA-05	46.12				hJ		5		yl-gn mi		PR						
BHUA-05	46.12	46.23			hJ		90		yl-gn mi		PR						
BHUA-05	46.19				hJ		5		yl-gn mi		PR						
BHUA-05	46.19	46.32			hJ		80		yl-gn mi		PR						
BHUA-05	46.20				hJ		70		yl-gn mi		PR						
BHUA-05	46.24				V		60		yl-gn mi		PR			2			
BHUA-05	46.24				hJ		60		yl-gn mi		PR						
BHUA-05	46.24				hJ		5		yl-gn mi		PR						
BHUA-05	46.27	46.70			hJ		90		yl-gn mi		CU						
BHUA-05	46.30				V		45		yl-gn mi		PR			2			
BHUA-05	46.30	46.60			hJ		90		yl-gn mi		CU						
BHUA-05	46.30	46.61			hJ		90		yl-gn mi		CU						
BHUA-05	46.30				hJ		45		yl-gn mi		PR						
BHUA-05	46.33				V		45		yl-gn mi		PR			2			
BHUA-05	46.33				hJ		45		yl-gn mi		PR						
BHUA-05	46.40				hJ		70		yl-gn mi		PR						
BHUA-05	46.63				hJ		45		yl-gn mi		PR						
BHUA-05	46.70				J		5		yl-gn mi		PR	SM					
BHUA-05	46.70	46.90			AZ				yl-gn mi		IR						multiple defects, various angles, gneerally sub-horizontal, gn-yl mi, gn-yl mi alt halo, 0-10mm spacing
BHUA-05	46.94				hJ		30		yl-gn mi		PR						
BHUA-05	47.05				hJ		20		gy mi		PR						
BHUA-05	47.08				hJ		10		gy mi		PR						
BHUA-05	47.10				hJ		40		gy mi		PR						
BHUA-05	47.20				J		20		gy mi		PR	RF					
BHUA-05	47.26				hJ		5		gy mi		PR						
BHUA-05	47.38				hJ		5		gy mi		PR						
BHUA-05	47.43				J		0		gy mi	SN	UN	RF					
BHUA-05	47.44				J		5		yl-gn mi	CN	UN	SM					
BHUA-05	47.48				hJ		5		yl-gn mi		PR						
BHUA-05	47.50	48.09			hJ		90		yl-gn mi		PR						
BHUA-05	47.60				J		5		gy mi	SN	UN	RF					
BHUA-05	47.64				hJ		15		gy mi		PR						
BHUA-05	47.68				hJ		15		gy mi		PR						
BHUA-05	47.75	48.08			hJ		90		gy mi		PR						
BHUA-05	47.80				hJ		15		gy mi		PR						
BHUA-05	47.81				hJ		15		gy mi		PR						
BHUA-05	47.83	48.00			hJ		90		gy mi		PR						
BHUA-05	47.85				hJ		5		gy mi		PR						
BHUA-05	47.87				hJ		5		gy mi		PR						
BHUA-05	47.88				hJ		15		gy mi		PR						
BHUA-05	47.97				J		5			CN	UN	RF					
BHUA-05	48.10				J		5		gy mi	SN	PR	SM					
BHUA-05	48.16				hJ		5		gy mi		PR						
BHUA-05	48.20				hJ		5		gy mi		PR						
BHUA-05	48.24				hJ		5		gy mi		PR						
BHUA-05	48.26				hJ		5		gy mi		PR						
BHUA-05	48.28				hJ		60		gy mi		PR						
BHUA-05	48.31				hJ		5		gy mi		PR						
BHUA-05	48.33				hJ		15		gy mi		PR						
BHUA-05	48.44				hJ		5		gy mi		PR						
BHUA-05	48.48				hJ		85		gy mi		PR						
BHUA-05	48.50				J		10				PR	SM					
BHUA-05	48.50				hJ		30		yl-gn mi		PR						
BHUA-05	48.50				hJ		90		yl-gn mi		PR						
BHUA-05	48.55				hJ		90		yl-gn mi		PR						
BHUA-05	48.57				hJ		5		yl-gn mi		PR						
BHUA-05	48.70				SZ		30		shear faulted gauge clay qtz	CT	IR	VR					
BHUA-05	48.72				V		30		yl-gn mi		PR			2			
BHUA-05	48.74				hJ		60		yl-gn mi		PR						
BHUA-05	48.75				hJ		90		yl-gn mi		PR						
BHUA-05	48.98				hJ		40		gy mi		PR	RF					
BHUA-05	48.98				hJ		5		gy mi		PR						
BHUA-05	49.05				hJ		10		gy mi		PR						
BHUA-05	49.06				hJ		85		gy mi		PR						
BHUA-05	49.08				hJ		15		gy mi		PR						
BHUA-05	49.09				hJ		35		gy mi		PR						
BHUA-05	49.10				J		10		gy mi		PR	RF					
BHUA-05	49.14				hJ		5		gy mi		PR						
BHUA-05	49.18				hJ		90		gy mi		UN						
BHUA-05	49.20				hJ		50		gy mi		PR						
BHUA-05	49.22				hJ		15		gy mi		PR						
BHUA-05	49.23				hJ		50		gy mi		PR						
BHUA-05	49.24				hJ		15		gy mi		PR						
BHUA-05	49.30				hJ		45		gy mi		PR						
BHUA-05	49.36				J		5				PR	RF					

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	49.38				hJ		20		gy mi		PR						
BHUA-05	49.42				hJ		40		gy mi		PR						
BHUA-05	49.46				hJ		55		gy mi		PR						
BHUA-05	49.56				hJ		20		gy mi		PR						
BHUA-05	49.60				hJ		70		gy mi		PR						
BHUA-05	49.65				hJ		15		gy mi		PR						
BHUA-05	49.68				hJ		20		gy mi		PR						
BHUA-05	49.69				hJ		20		gy mi		PR						
BHUA-05	49.70				hJ		70		yl-gn mi		PR						
BHUA-05	49.72				hJ		70		yl-gn mi		PR						
BHUA-05	49.72				hJ		90		yl-gn mi		PR						
BHUA-05	49.73				hJ		80		yl-gn mi		PR						
BHUA-05	49.76				J		5				PR	RF					
BHUA-05	49.78				hJ		50		yl-gn mi		CU						
BHUA-05	49.81				hJ		30		yl-gn mi		PR						
BHUA-05	49.82				V		20		yl-gn mi		PR			3			
BHUA-05	49.83				V		20		yl-gn mi		PR			2			
BHUA-05	49.87				V		25		yl-gn mi		PR			4			
BHUA-05	49.90				hJ		25		yl-gn mi		PR						
BHUA-05	49.91				hJ		60		yl-gn mi		PR						
BHUA-05	49.92				V		25		yl-gn mi		PR			3			
BHUA-05	49.94				V		30		yl-gn mi	CT	PR	SM		2			
BHUA-05	49.96				J		30				PR	RF					
BHUA-05	49.98				V		30		yl-gn mi		PR	SM		1			
BHUA-05	50.00				CO		85		contact basalt and granodiorite	CT	UN	RF					
BHUA-05	50.02				hJ		25		gy mi		PR						
BHUA-05	50.04				hJ		20		gy mi		PR						
BHUA-05	50.05				hJ		80		gy mi		PR						
BHUA-05	50.09				hJ		30		gy mi		PR						
BHUA-05	50.10				hJ		45		gy mi		PR						
BHUA-05	50.13				hJ		50		gy mi		PR						
BHUA-05	50.15				hJ		30		gy mi		PR						
BHUA-05	50.17				hJ		80		gy mi		PR						
BHUA-05	50.25				V		30		gn mi chlorite	CN	PR	SM		1			
BHUA-05	50.25				V		35		yl-gn mi		CU						
BHUA-05	50.26				hJ		30		gy mi		CU						
BHUA-05	50.50				J		5				CU	RF					
BHUA-05	50.51				hJ		50		gy mi		PR						
BHUA-05	50.52				hJ		55		gy mi		PR						
BHUA-05	50.60				hJ		25		gy mi		PR						
BHUA-05	50.69				hJ		80		gy mi		PR						
BHUA-05	50.70				J		20				PR	RF					
BHUA-05	50.75				hJ		80		gy mi		PR						
BHUA-05	50.78				V		20		gy mi		IR			7			
BHUA-05	50.84				J		5				CU	RF					
BHUA-05	50.89				hJ		15		gy mi		PR						
BHUA-05	50.90				hJ		20		gy mi		PR						
BHUA-05	50.93				hJ		85		gy mi		PR						
BHUA-05	51.00				hJ		90		gy mi		PR						
BHUA-05	51.00				hJ		90		gy mi		PR						
BHUA-05	51.00				hJ		90		gy mi		PR						
BHUA-05	51.05				hJ		90		gy mi		PR						
BHUA-05	51.06				J		10				PR	RF					
BHUA-05	51.16				hJ		85		gy mi		PR						
BHUA-05	51.22				hJ		10		gy mi		PR						
BHUA-05	51.22				CO		30		contact dolerite/glassy basalt (dyke intruding)								
BHUA-05	51.23				hJ		50		gy mi		PR						
BHUA-05	51.25				hJ		80		gy mi		PR						
BHUA-05	51.30				J		15										
BHUA-05	51.31				hJ		85		gy mi		PR						
BHUA-05	51.35				hJ		60		gy mi		PR						
BHUA-05	51.38				hJ		65		gy mi		PR						
BHUA-05	51.48				hJ		25		gy mi		PR						
BHUA-05	51.50				hJ		80		gy mi		PR						
BHUA-05	51.52				hJ		10		gy mi		PR						
BHUA-05	51.56				hJ		20				PR						
BHUA-05	51.58				CO		30		contact glassy basalt (dyke)/granodiorite		CU						
BHUA-05	51.63				hJ		85		gy mi		PR						
BHUA-05	51.64				hJ		10		gy mi		UN						
BHUA-05	51.65				hJ		60		gy mi		PR						
BHUA-05	51.65				hJ		85		gy mi		PR						
BHUA-05	51.66				J		5		gy mi		PR	SM					
BHUA-05	51.66				hJ		10		gy mi		PR						
BHUA-05	51.68				J		30			CN	PR	SM					
BHUA-05	51.70				hJ		50		gy mi		PR						
BHUA-05	51.75				hJ		55		gy mi		PR						
BHUA-05	51.75				hJ		90		gy mi		UN						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	51.82				hJ		70		gy mi		PR						
BHUA-05	51.90				hJ		70		gy mi		PR						
BHUA-05	52.05				J		5				PR	RF					
BHUA-05	52.07				J		30				PR	RF					
BHUA-05	52.07				hJ		90		wh mi		PR	RF					
BHUA-05	52.07				hJ		90		wh mi		PR	RF					
BHUA-05	52.11				hJ		70		wh mi		PR	RF					
BHUA-05	52.29				hJ		90		wh mi		PR	RF					
BHUA-05	52.34				V		15		patchy		IR	RF					
BHUA-05	52.36				V		30		patchy		PR	RF					
BHUA-05	52.50				hJ		90		wh mi		UN	RF					
BHUA-05	52.51				hJ		90		wh mi		PR	RF					
BHUA-05	52.54				hJ		90		wh mi		PR	RF					
BHUA-05	52.58				hJ		90		wh mi		PR	RF					
BHUA-05	52.62				hJ		60		wh mi		PR	RF					
BHUA-05	52.75				J		30				PR	SM					
BHUA-05	52.90				V		85		wh, mi Qtz	CN	PR	SM					
BHUA-05	52.93				hJ		70		pale br mi		PR	RF					
BHUA-05	53.04				hJ		20		wh mi		PR	RF					
BHUA-05	53.05				V		80		wh mi		PR	RF		2			
BHUA-05	53.08				hJ		25		wh mi		PR	RF					
BHUA-05	53.17				hJ		90		wh mi		PR	RF					
BHUA-05	53.35				V		60		2mm chl vein	CN	PR	SM		2			
BHUA-05	53.35				hJ		35		pale gy		PR	RF					
BHUA-05	53.35				hJ		35		pale gy		PR	RF					
BHUA-05	53.40				V		65		pale gy		PR	RF		3			
BHUA-05	53.43				hJ		90		wh mi		UN	RF					
BHUA-05	53.47				hJ		65		pale gy		IR	RF					
BHUA-05	53.51				hJ		20		pale gy		PR	RF					
BHUA-05	53.55				hJ		50		wh bk mi		PR	RF					
BHUA-05	53.56				hJ		90		wh mi		PR	RF					
BHUA-05	53.61				hJ		80		wh mi		UN	RF					
BHUA-05	53.70				J		30				PR	SM					
BHUA-05	53.71				hJ		85				PR	RF					
BHUA-05	53.85				V		85		wh rd br mi		PR	RF		5			
BHUA-05	53.87				V		70		wh qtz vein br oxidised	SN	UN	RF		5			
BHUA-05	53.93				J		45				PR	SM					
BHUA-05	53.96				hJ		85		wh mi		PR	RF					
BHUA-05	54.01				hJ		90		wh mi		PR	RF					
BHUA-05	54.02				hJ		15		wh mi		PR	RF					
BHUA-05	54.15				V		80		wh, mi Qtz vein	CN	PR	SM		5			
BHUA-05	54.20				hJ		40		wh mi		PR	RF					
BHUA-05	54.25				hJ		80		wh mi		UN	RF					
BHUA-05	54.27				V		80		wh mi		UN	RF		3			
BHUA-05	54.36				V		90		wh, mi Qtz vein	CN	PR	SM		2			
BHUA-05	54.39				hJ		35		wh mi		UN	RF					
BHUA-05	54.42				V		80		pale gn, wh		IR	RF		3			
BHUA-05	54.43				hJ		90		wh mi		IR	RF					
BHUA-05	54.43				hJ		90		wh mi		PR	RF					
BHUA-05	54.46				V		80		wh, mi Qtz vein	CN	PR	SM		3			
BHUA-05	54.52				hJ		80		wh mi rd		PR	RF					
BHUA-05	54.67				J		30				PR	SM					
BHUA-05	54.71				hJ		55		wh mi		PR	RF					
BHUA-05	54.83				hJ		75		wh mi		PR	RF					
BHUA-05	54.86				hJ		60		wh mi		PR	RF					
BHUA-05	54.93				J		45				PR	SM					
BHUA-05	55.00				J		45			CN	PR	SM					
BHUA-05	55.05				hJ		60				PR	SM					
BHUA-05	55.17				hJ		70				PR	SM					
BHUA-05	55.20				J		5			CN		SM					
BHUA-05	55.26				hJ		70				PR	SM					
BHUA-05	55.30				hJ		80				PR	SM					
BHUA-05	55.30				V		60		wh mi Qtz, gn chlorite	CN	PR	SM		2			
BHUA-05	55.45				J		10				PR	SM					
BHUA-05	55.80				J		70				UN	RF					
BHUA-05	55.80				hJ		10				PR	SM					
BHUA-05	55.85				hJ		30				PR	SM					
BHUA-05	55.88				hJ		35				PR	SM					
BHUA-05	55.90				hJ		5				PR	SM					
BHUA-05	55.93				hJ		70				PR	SM					
BHUA-05	55.94				hJ		5				PR	SM					
BHUA-05	55.94				hJ		45				PR	SM					
BHUA-05	55.95				CO		70		gn chlorite veins	CT	CU	SM		2			
BHUA-05	55.95				CO		70		gn chlorite veins	CT	CU	SM		2			
BHUA-05	55.95				hJ		30				PR	SM					
BHUA-05	56.00				V		70		bk		PR	SM		2			
BHUA-05	56.00				hJ		90				PR	SM					
BHUA-05	56.05				hJ		90				PR	SM					
BHUA-05	56.05				hJ		30				PR	SM					

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	56.07				hJ		30				PR	SM					
BHUA-05	56.08				hJ		90				PR	SM					
BHUA-05	56.10				hJ		5				PR	SM					
BHUA-05	56.10				J		5				PR	RF					
BHUA-05	56.10				J		5				PR	RF					
BHUA-05	56.20				J		5				PR	RF					
BHUA-05	56.22				J		30			CN	PR	RF					
BHUA-05	56.24				hJ		60				PR	SM					
BHUA-05	56.25				hJ		60				PR	SM					
BHUA-05	56.25				hJ		85				PR	SM					
BHUA-05	56.30				J		20				CU	RF					
BHUA-05	56.42				hJ		90				PR	SM					
BHUA-05	56.43				J		10				PR	RF					
BHUA-05	56.80				V		90		wh qtz carbonate vein		UN	RF		10			
BHUA-05	56.82				hJ		30				PR	SM					
BHUA-05	56.84				J		10				PR	RF					
BHUA-05	56.88				hJ		70				PR	SM					
BHUA-05	56.94				hJ		60				PR	SM					
BHUA-05	56.96				hJ		60				PR	SM					
BHUA-05	56.98				hJ		60				PR	SM					
BHUA-05	57.00				hJ		60				PR	SM					
BHUA-05	57.08				hJ		60				PR	SM					
BHUA-05	57.10				hJ		60				PR	SM					
BHUA-05	57.10				hJ		5				PR	SM					
BHUA-05	57.10				hJ		90				PR	SM					
BHUA-05	57.10				hJ		5				PR	SM					
BHUA-05	57.12				hJ		30				PR	SM					
BHUA-05	57.12				hJ		60				PR	SM					
BHUA-05	57.13				hJ		60				PR	SM					
BHUA-05	57.13				hJ		60				PR	SM					
BHUA-05	57.14				hJ		85				PR	SM					
BHUA-05	57.17				hJ		70				PR	SM					
BHUA-05	57.25				V		60		wh, gn mi chlorite carbonate		PR	SM		10			
BHUA-05	57.33				hJ		70				PR	SM					
BHUA-05	57.35				hJ		70				PR	SM					
BHUA-05	57.40				AZ		15				PR	SM					
BHUA-05	57.44				hJ		70				PR	SM					
BHUA-05	57.48				hJ		70				PR	SM					
BHUA-05	57.56				hJ		90				PR	SM					
BHUA-05	57.75				hJ		15				PR	SM					
BHUA-05	57.77				hJ		15				PR	SM					
BHUA-05	57.91				hJ		10				PR	SM					
BHUA-05	57.91				hJ		80				PR	SM					
BHUA-05	57.97				hJ		5				PR	SM					
BHUA-05	58.03				CO		60		dolerite /glassy basalt		PR	SM					
BHUA-05	58.06				J		45		wh mi qtz and chlorite veins and bk veins with rare py	CT	IR	SM					
BHUA-05	58.10				hJ		80		bk		PR	SM					
BHUA-05	58.20				hJ		80				PR	SM					
BHUA-05	58.22				hJ		90				PR	SM					
BHUA-05	58.22				hJ		70				PR	SM					
BHUA-05	58.25				hJ		85				PR	SM					
BHUA-05	58.34				hJ		85				PR	SM					
BHUA-05	58.38				hJ		70				PR	SM					
BHUA-05	58.40	58.86			AZ				wh-pl gn mi		IR						multiple defects, various angles, generally sub-hotizontal, 0-10mm spacing
BHUA-05	58.44				J		40				PR	RF					
BHUA-05	58.48				hJ		40				PR	SM					
BHUA-05	58.50				hJ		40				PR	SM					
BHUA-05	58.57				hJ		50				PR	SM					
BHUA-05	58.66				hJ		85				PR	SM					
BHUA-05	58.74				hJ		60				PR	SM					
BHUA-05	58.75				hJ		30		bk		PR	SM					
BHUA-05	58.75				J		60				PR	RF					
BHUA-05	58.75				J		60				PR	RF					
BHUA-05	58.77				hJ		30				PR	SM					
BHUA-05	58.90				hJ		60				PR	SM					
BHUA-05	58.94				hJ		90				PR	SM					
BHUA-05	59.04				hJ		45				PR	SM					
BHUA-05	59.05				hJ		65				PR	SM					
BHUA-05	59.05				hJ		40				PR	SM					
BHUA-05	59.07				hJ		40				PR	SM					
BHUA-05	59.07				hJ		30		rd halo		PR	SM					
BHUA-05	59.09				hJ		40				PR	SM					
BHUA-05	59.11				hJ		40				PR	SM					
BHUA-05	59.12				hJ		40				PR	SM					
BHUA-05	59.13				J		20				PR	RF					
BHUA-05	59.13				hJ		85				PR	SM					
BHUA-05	59.15				hJ		40				PR	SM					
BHUA-05	59.20				hJ		85				PR	SM					
BHUA-05	59.22				hJ		60				PR	SM					

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	59.22	59.42			AZ				wh-pl gn mi		IR						multiple defects, various angles, generally sub-hotizontal, 0-10mm spacing
BHUA-05	59.25				hJ		65				PR	SM					
BHUA-05	59.26				hJ		65				PR	SM					
BHUA-05	59.27				hJ		60				PR	SM					
BHUA-05	59.27				V		90		wh mi qtz with rd halo		UN	RF		2			
BHUA-05	59.32				hJ		70				PR	SM					
BHUA-05	59.40				hJ		90		rd halo		PR	SM					
BHUA-05	59.41				hJ		85				PR	SM					
BHUA-05	59.42				J		20				PR	RF					
BHUA-05	59.50				hJ		30				PR	SM					
BHUA-05	59.50				V		90				PR	SM					
BHUA-05	59.54				V		80				PR	SM		2			
BHUA-05	59.54				hJ		30				PR	SM					
BHUA-05	59.58				hJ		30				PR	SM					
BHUA-05	59.58				V		45		gn chlorite vein		PR	SM		2			
BHUA-05	59.60				hJ		30				PR	SM					
BHUA-05	59.64				J		30				PR	RF					
BHUA-05	59.68				V		70		wh mi Qtz with red halo		PR	SM		1			
BHUA-05	59.75				hJ		90				PR	SM					
BHUA-05	59.77				hJ		70				PR	SM					
BHUA-05	59.77				hJ		90				PR	SM					
BHUA-05	59.82				hJ		35				PR	SM					
BHUA-05	59.86				hJ		85				PR	SM					
BHUA-05	59.87				hJ		25				PR	SM					
BHUA-05	59.90				hJ		25				PR	SM					
BHUA-05	59.94				hJ		25				PR	SM					
BHUA-05	60.00				hJ		75				PR	SM					
BHUA-05	60.00				hJ		70				PR	SM					
BHUA-05	60.00				hJ		45				PR	SM					
BHUA-05	60.05				hJ		45				PR	SM					
BHUA-05	60.06				hJ		20				PR	SM					
BHUA-05	60.10	60.60			AZ				pl gn-wh mi		IR						multiple defects, various angles, generally sub-hotizontal, 0-10mm spacing
BHUA-05	60.13				J		10				PR	RF					
BHUA-05	60.17				hJ		85				PR	SM					
BHUA-05	60.19				hJ		45				PR	SM					
BHUA-05	60.19				hJ		40				PR	SM					
BHUA-05	60.25				hJ		35				PR	SM					
BHUA-05	60.27				V		35		gn chlorine vein with pk halo		PR	SM					
BHUA-05	60.33				J		50			CN	PR	RF					
BHUA-05	60.35				hJ		80				UN	SM					
BHUA-05	60.36				hJ		50				PR	SM					
BHUA-05	60.40				hJ		70				CU	SM					
BHUA-05	60.40				J		50			CN	PR	RF					
BHUA-05	60.40				J		50			CN	PR	RF					
BHUA-05	60.42				hJ		70				PR	SM					
BHUA-05	60.44				V		30		wh mi Qtz vein pk altered		CU	SM		2			
BHUA-05	60.45				J		50			CN	CU	RF					
BHUA-05	60.47				V		30		wh mi Qtz vein pk altered		PR	SM		2			
BHUA-05	60.56				J		50				PR	RF					
BHUA-05	60.59				hJ		85				PR	SM					
BHUA-05	60.60				J		70				PR	RF					
BHUA-05	60.67				hJ		10				PR	SM					
BHUA-05	60.70				hJ		40				PR	SM					
BHUA-05	60.74				J		45				PR	RF					
BHUA-05	60.75				hJ		45				PR	SM					
BHUA-05	60.77				hJ		90				PR	SM					
BHUA-05	60.78				J		45				PR	SM					
BHUA-05	60.94				V		10		gn with chlorite	CT	PR	SM		1			
BHUA-05	61.00				hJ		90				PR	SM					
BHUA-05	61.00				hJ		30				PR	SM					
BHUA-05	61.00				hJ		60				PR	SM					
BHUA-05	61.07	61.71			AZ				pl gn-wh mi		IR						multiple defects, various angles, generally sub-hotizontal, 0-10mm spacing
BHUA-05	61.12				hJ		10				PR	SM					
BHUA-05	61.26				hJ		40				PR	SM					
BHUA-05	61.27				hJ		90				PR	SM					
BHUA-05	61.28				hJ		90				PR	SM					
BHUA-05	61.31				hJ		40				PR	SM					
BHUA-05	61.35				hJ		85				PR	SM					
BHUA-05	61.36				hJ		5				PR	SM					
BHUA-05	61.43				V		25		gn vein		ST	SM		2			
BHUA-05	61.43				hJ		85				UN	RF					
BHUA-05	61.50				hJ		30				PR	SM					
BHUA-05	61.50				hJ		20				PR	SM					
BHUA-05	61.50				hJ		20				PR	SM					
BHUA-05	61.54				hJ		45				PR	SM					
BHUA-05	61.54				J		20				IR	RF					
BHUA-05	61.54				J		20				IR	RF					
BHUA-05	61.56				hJ		20				PR	SM					
BHUA-05	61.58				hJ		50				UN	RF					

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	61.65				J		15				PR	RF					
BHUA-05	61.79				hJ		40				PR	SM					
BHUA-05	61.80	61.95			AZ				pl gn-wh mi		UN			2			multiple defects, various angles, generally sub-hotizontal, 0-10mm spacing
BHUA-05	61.84				hJ		15				PR	SM					
BHUA-05	61.88				hJ		30				PR	SM					
BHUA-05	61.92				hJ		85				PR	SM					
BHUA-05	61.94				hJ		20				PR	SM					
BHUA-05	62.07				CO		30		contact between glassy basalt and dolerite/granodic		PR	SM					
BHUA-05	62.10	62.22			hJ	x2	85				CU	RF					
BHUA-05	62.13				hJ		20		pl gn-wh mi		PR						
BHUA-05	62.22				hJ		30		gn chlorite vein		PR	SM		4			
BHUA-05	62.27	62.80			hJ		80		wh qtz carbonate with halo		UN			3			
BHUA-05	62.56	62.64			hJ		80		pl gn-wh mi		PR						
BHUA-05	62.62	62.77			hJ		80		pl gn-wh mi		PR						
BHUA-05	62.69				J		10				PR	RF					
BHUA-05	62.72	63.24			hJ		80	90	pl gn-wh mi		UN						
BHUA-05	62.77	62.97			hJ		70		pl gn-wh mi		PR						
BHUA-05	62.80				MB												
BHUA-05	62.82	62.90			hJ		80		pl gn-wh mi		PR						
BHUA-05	62.95	63.20			hJ		70				PR	SM					
BHUA-05	63.09				hJ		90				PR	SM					
BHUA-05	63.10				hJ		40				PR	SM					
BHUA-05	63.10				hJ		40				PR	SM					
BHUA-05	63.12				hJ		40				PR	SM					
BHUA-05	63.14				hJ		30				PR	SM					
BHUA-05	63.18				hJ		90				PR	SM					
BHUA-05	63.19				hJ		5				PR	SM					
BHUA-05	63.25				hJ		30				PR	SM					
BHUA-05	63.36				J		70				IR	RF					
BHUA-05	63.38				V		90		wh mi qtz carbonate		PR	SM		2			
BHUA-05	63.42				hJ		20				PR	SM					
BHUA-05	63.44				hJ		90				ST	SM					
BHUA-05	63.45				hJ		80				PR	SM					
BHUA-05	63.50				hJ		20				PR	SM					
BHUA-05	63.50				hJ		45				PR	SM					
BHUA-05	63.54				hJ		20				PR	SM					
BHUA-05	63.57				hJ		90				PR	SM					
BHUA-05	63.60				V		85		gn		PR	SM		2			
BHUA-05	63.62				hJ		30				PR	SM					
BHUA-05	63.63				AZ		50		gn altered		IR	RF					
BHUA-05	63.68				hJ		5				PR	SM					
BHUA-05	63.68				hJ		90				PR	SM					
BHUA-05	63.70				V		80		wh mi qtz brecciated gn altered vein		UN	RF		8			
BHUA-05	63.80				hJ		60				PR	SM					
BHUA-05	64.00				hJ		70				PR	SM					
BHUA-05	64.07				hJ		60				PR	SM					
BHUA-05	64.15				hJ		80				PR	SM					
BHUA-05	64.25				hJ		85				PR	SM					
BHUA-05	64.28				hJ		15				PR	SM					
BHUA-05	64.28				V		85		bk		PR	SM					
BHUA-05	64.30				V		85		bk		PR	SM		2			
BHUA-05	64.32				J		20				IR	RF					
BHUA-05	64.39				hJ		85				PR	SM					
BHUA-05	64.42				hJ		60				PR	SM					
BHUA-05	64.48				V		70		wh mi qtz carbonate		UN	RF		2			
BHUA-05	64.61				hJ		70				PR	SM					
BHUA-05	64.67				J		10				IR	RF					
BHUA-05	64.71				hJ		20				PR	SM					
BHUA-05	64.80				hJ		90				PR	SM					
BHUA-05	64.96				hJ		90				PR	SM					
BHUA-05	65.06				hJ		60				PR	SM					
BHUA-05	65.08				hJ		60				PR	SM					
BHUA-05	65.10				hJ		85				PR	SM					
BHUA-05	65.12				hJ		85				PR	SM					
BHUA-05	65.12				hJ		80				ST	SM					
BHUA-05	65.17				hJ		15				PR	SM					
BHUA-05	65.25				J		30				PR	RF					
BHUA-05	65.25				hJ		80				PR	SM					
BHUA-05	65.31				hJ		90				PR	SM					
BHUA-05	65.50				hJ		90				PR	SM					
BHUA-05	65.54				hJ		45				PR	SM					
BHUA-05	65.56				hJ		10				PR	SM					
BHUA-05	65.64				hJ		90				PR	SM					
BHUA-05	65.65				J		30				PR	RF					
BHUA-05	65.69				hJ		60				PR	SM					
BHUA-05	65.77				hJ		60				PR	SM					
BHUA-05	65.84				hJ		30				PR	SM					
BHUA-05	65.84				hJ		30				PR	SM					
BHUA-05	65.86				hJ		60				PR	SM					

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Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	65.88				hJ		60				PR	SM					
BHUA-05	65.94				hJ		30				PR	SM					
BHUA-05	65.96				hJ		85				PR	SM					
BHUA-05	66.00				hJ		60				PR	SM					
BHUA-05	66.04				hJ		80				PR	SM					
BHUA-05	66.06				hJ		30				PR	SM					
BHUA-05	66.10				hJ		80				PR	SM					
BHUA-05	66.13				hJ		30				PR	SM					
BHUA-05	66.15				hJ		20				PR	SM					
BHUA-05	66.24				hJ		85				PR	SM					
BHUA-05	66.31				hJ		90				PR	SM					
BHUA-05	66.36				J		60				PR	RF					
BHUA-05	66.38				hJ		90				PR	SM					
BHUA-05	66.41				hJ		30				PR	SM					
BHUA-05	66.43				hJ		85				PR	SM					
BHUA-05	66.45				hJ		85				PR	SM					
BHUA-05	66.60				hJ		85				PR	SM					
BHUA-05	66.65				hJ		30				PR	SM					
BHUA-05	66.66				hJ		60				PR	SM					
BHUA-05	66.70				hJ		30				PR	SM					
BHUA-05	66.71				hJ		90				PR	SM					
BHUA-05	66.79				hJ		85				PR	SM					
BHUA-05	66.80				V		90		wh mi chlorite vein		PR	SM		2			
BHUA-05	66.85				hJ		80				PR	SM					
BHUA-05	66.96				hJ		0				PR	SM					
BHUA-05	67.08				hJ		85				PR	SM					
BHUA-05	67.10				V		90		gn vein		PR	SM		1			
BHUA-05	67.10				hJ		15				PR	SM					
BHUA-05	67.10				hJ		15				PR	SM					
BHUA-05	67.25				hJ		60				PR	SM					
BHUA-05	67.27				hJ		70				PR	SM					
BHUA-05	67.28				hJ		15				PR	SM					
BHUA-05	67.28				hJ		70				PR	SM					
BHUA-05	67.36				hJ		25				PR	SM					
BHUA-05	67.41				J		10				IR	RF					
BHUA-05	67.41				hJ		90				PR	SM					
BHUA-05	67.42				hJ		20				PR	SM					
BHUA-05	67.44				hJ		90				PR	SM					
BHUA-05	67.49				hJ		90				PR	SM					
BHUA-05	67.50				hJ		30				PR	SM					
BHUA-05	67.50				hJ		60				PR	SM					
BHUA-05	67.66				hJ		80				PR	SM					
BHUA-05	67.75				hJ		90				PR	SM					
BHUA-05	67.83				hJ		70				PR	SM					
BHUA-05	67.90				hJ		30				PR	SM					
BHUA-05	67.90				hJ		5				PR	SM					
BHUA-05	67.90				hJ		5				PR	SM					
BHUA-05	67.93	68.54			SZ		70		sheared faulted zone altered with clay or faulted gau		IR						healed, wh-pl gn mi
BHUA-05	68.00				hJ		60				PR	SM					
BHUA-05	68.07				AZ		70		gn alteration		IR	SM					
BHUA-05	68.23	68.54			J		70		pl gn-wh mi	CT	UN	SM					joint at base of shear zone
BHUA-05	68.30	68.66			hJ		70		pl pk mi		UN			80			
BHUA-05	68.36				J		45				IR	RF					
BHUA-05	68.60				J		90			CN	CU	SM					
BHUA-05	68.70				J		90				PR	RF					
BHUA-05	68.75				V		90		wh qtz feldspar		PR	RF		5			
BHUA-05	69.05				hJ		90				CU	SM					
BHUA-05	69.05				hJ		90				PR	SM					
BHUA-05	69.06				hJ		90				CU	SM					
BHUA-05	69.20				hJ		70				PR	SM					
BHUA-05	69.20				hJ		10				PR	SM					
BHUA-05	69.20				hJ		70				PR	SM					
BHUA-05	69.20				hJ		10				PR	SM					
BHUA-05	69.23				hJ		60				PR	SM					
BHUA-05	69.25				hJ		70				PR	SM					
BHUA-05	69.30				hJ		0				PR	SM					
BHUA-05	69.40				V		70		wh mi qtz feldspar altered vein		UN	SM		5			
BHUA-05	69.44				V		60				UN	SM		1			
BHUA-05	69.45				J		40				CU	RF					
BHUA-05	69.46				V		85		mi qtz feldspar altered vein		UN	SM		100			
BHUA-05	69.55				hJ		90				CU	SM					
BHUA-05	69.60				hJ		90				PR	SM					
BHUA-05	69.63				hJ		30				PR	SM					
BHUA-05	69.65				hJ		30				PR	SM					
BHUA-05	69.65				hJ		60				PR	SM					
BHUA-05	69.80				V		85		wh mi qtz feldspar		UN	SM		30			
BHUA-05	69.80				J		85				IR	RF					
BHUA-05	69.80				J		85				IR	RF					
BHUA-05	69.90				hJ		85				PR	SM					

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Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	69.92				V		85		wh mi qtz		UN	SM		5			
BHUA-05	70.00				V		85		wh mi Qtz feldspar		CU	SM		2			
BHUA-05	70.00				hJ		90				PR	SM					
BHUA-05	70.00				hJ		90				CU	RF					
BHUA-05	70.25				hJ		80				PR	SM					
BHUA-05	70.34				hJ		90				CU	RF					
BHUA-05	70.35				hJ		80				PR	SM					
BHUA-05	70.35				hJ		80				PR	SM					
BHUA-05	70.38				hJ		85				PR	SM					
BHUA-05	70.40				hJ		90				PR	SM					
BHUA-05	70.60				J		20				CU	RF					
BHUA-05	70.60				V		90		wh mi Qtz clay vein		UN	RF		5			
BHUA-05	70.73				V		90				PR	SM		2			
BHUA-05	70.80				J		20				UN	RF					
BHUA-05	70.83				J	x3	90				UN	RF					
BHUA-05	70.85				J		5				UN	RF					
BHUA-05	70.90				hJ		90				PR	SM					
BHUA-05	70.90				hJ		90				PR	SM					
BHUA-05	71.18				hJ		90				PR	SM					
BHUA-05	71.30				hJ		20				PR	SM					
BHUA-05	71.35				V		80		wh Qtz		ST	SM		2			
BHUA-05	71.40				V		90				UN	RF					
BHUA-05	71.40				hJ		90				PR	SM					
BHUA-05	71.46				V		90		wh Qtz		CU	SM		2			
BHUA-05	71.60				hJ		60				PR	SM					
BHUA-05	71.67				V		90		gn		PR	SM		1			
BHUA-05	71.67				J		30				CU	RF					
BHUA-05	71.67				J		30				CU	RF					
BHUA-05	71.90				V		70		wh mi Qtz vein		CU	RF		2			
BHUA-05	72.00				hJ		85				PR	SM					
BHUA-05	72.10				hJ		85				PR	SM					
BHUA-05	72.10				hJ		85				PR	SM					
BHUA-05	72.33				hJ		90				PR	SM					
BHUA-05	72.35				hJ		70				PR	SM					
BHUA-05	72.35				hJ		70				PR	SM					
BHUA-05	72.38				hJ		85				PR	SM					
BHUA-05	72.50				J		10				CU	RF					
BHUA-05	72.64				hJ		60				PR	SM					
BHUA-05	72.64				hJ		85				PR	SM					
BHUA-05	72.67				hJ		50				PR	SM					
BHUA-05	72.87				hJ		90				PR	SM					
BHUA-05	73.00				V		90		yl, gn vein		CU	RF		2			
BHUA-05	73.05				V		90		gn		CU	RF		2			
BHUA-05	73.23				V		60		gn		CU	SM		2			
BHUA-05	73.56				J		25				CU	RF					
BHUA-05	73.73				hJ		90				PR	SM					
BHUA-05	73.77				hJ		90				PR	SM					
BHUA-05	73.78				hJ		70				PR	SM					
BHUA-05	73.83				hJ		80		bk		PR	SM		1			
BHUA-05	73.83				hJ		60				PR	SM					
BHUA-05	73.95				hJ		85				PR	SM					
BHUA-05	73.95				hJ		90				PR	SM					
BHUA-05	74.00				hJ		90				PR	SM					
BHUA-05	74.12				hJ		80				PR	SM					
BHUA-05	74.14				hJ		60				PR	SM					
BHUA-05	74.15				hJ		30				PR	SM					
BHUA-05	74.20				hJ		70				PR	SM					
BHUA-05	74.26				hJ		80				PR	SM					
BHUA-05	74.38				J		10				CU	RF					
BHUA-05	74.40				hJ		85				PR	SM					
BHUA-05	74.44				hJ		80				PR	SM					
BHUA-05	74.46				hJ		85				PR	SM					
BHUA-05	74.48				V		80		bk		PR	SM		2			
BHUA-05	74.55				V		30		bk		PR	SM		2			
BHUA-05	74.58				V		80		bk		PR	SM		2			
BHUA-05	74.60				hJ		80				PR	SM					
BHUA-05	74.65				V		30		gn halo		PR	SM		3			
BHUA-05	74.71				hJ		30				PR	SM					
BHUA-05	74.76				V		30		bk		PR	SM		4			
BHUA-05	74.83				hJ		80				PR	SM					
BHUA-05	75.16				hJ		40				PR	SM					
BHUA-05	75.16				hJ		70				PR	SM					
BHUA-05	75.16				hJ		90				PR	SM					
BHUA-05	75.17				hJ		70				PR	SM					
BHUA-05	75.23				hJ		70				PR	SM					
BHUA-05	75.24				hJ		50				PR	SM					
BHUA-05	75.24				V		85		gn chlorite vein with alteration halo		PR	RF		3			
BHUA-05	75.30				hJ		70				PR	SM					
BHUA-05	75.38				hJ		85				PR	SM					

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	75.42				hJ		70				PR	SM					
BHUA-05	75.42				hJ		70				PR	SM					
BHUA-05	75.53				hJ		40				PR	SM					
BHUA-05	75.80				hJ		90				PR	SM					
BHUA-05	75.83				V		85		gn chlorite vein with alteration halo		UN	RF		4			
BHUA-05	75.88				V		80		gn chlorite vein with alteration halo		UN	RF		4			
BHUA-05	76.05				V		90		gn chlorite vein with alteration halo		CU	SM		4			
BHUA-05	76.10				hJ		90				PR	SM					
BHUA-05	76.20	76.54			SZ		45		clay	VN	CU	RF		20			20mm vertical displacement
BHUA-05	76.27				hJ		90				PR	SM					
BHUA-05	76.36				hJ		50				PR	SM					
BHUA-05	76.36				hJ		90				PR	SM					
BHUA-05	76.52				V		85		wh mi qtz clay opened cracked vein		UN	RF		2			
BHUA-05	76.52				hJ		80				PR	SM					
BHUA-05	76.61				hJ		30				PR	SM					
BHUA-05	76.65				V		90		wh mi qtz		PR	RF		2			
BHUA-05	76.65				V		85		gn halo alteration		CU	SM		5			
BHUA-05	76.66				J		5				CU	RF					
BHUA-05	76.67	77.28			SZ		80		wh-pl gn mi		PR						10-40mm displacement along healed joint
BHUA-05	76.80				hJ		80				PR	SM					
BHUA-05	76.84				hJ		30				PR	SM					
BHUA-05	77.03				V		85		wh mi Qtz		UN	RF		8			
BHUA-05	77.04				hJ		20				PR	SM					
BHUA-05	77.23				hJ		10				PR	SM					
BHUA-05	77.30	77.70			V		90		wh mi Qtz		CU	RF		2			
BHUA-05	77.30	77.55			V		90		wh mi chlorite carbonate vein		PR	SM		2			
BHUA-05	77.35				hJ		60				PR	SM					
BHUA-05	77.50				hJ		85				PR	SM					
BHUA-05	77.70				V		85		gn wh mi chlorite carbonate altered vein		PR	SM		2			
BHUA-05	77.70				V		85		gn wh mi chlorite carbonate altered vein		CU	SM		2			
BHUA-05	77.73				hJ		90				PR	SM					
BHUA-05	77.74				V		0		gn wh mi chlorite carbonate altered vein		CU	SM		2			
BHUA-05	77.74				V		80		gn wh mi chlorite carbonate altered vein		CU	SM		2			
BHUA-05	77.85				V		90		gn wh mi chlorite carbonate altered vein		CU	SM		2			
BHUA-05	78.03				V		5		gn		PR	SM					
BHUA-05	78.06				hJ		40		bk		PR	SM					
BHUA-05	78.10				V		50		gn wh mi chlorite carbonate altered vein		PR	SM		10			
BHUA-05	78.15				J		10			CN	IR	SM					
BHUA-05	78.20				hJ		40				PR	SM					
BHUA-05	78.20				V		65		gn wh mi chlorite carbonate altered vein		PR	SM		10			
BHUA-05	78.38				hJ		55		bk		PR	SM					
BHUA-05	78.54				V		75		wh mi carbonate		PR	SM		2			
BHUA-05	78.65				V		80		wh mi carbonate		PR	SM		2			
BHUA-05	78.68				J		20				CU	RF					
BHUA-05	78.78				hJ		10				PR	SM					
BHUA-05	78.82				V		70		wh mi carbonate		PR	SM		2			
BHUA-05	79.05				V		65		wh mi Qtz carbonate chlorite		PR	RF		8			
BHUA-05	79.12				hJ		90				PR	SM					
BHUA-05	79.20				hJ		90				PR	SM					
BHUA-05	79.20				hJ		80				PR	SM					
BHUA-05	79.20				hJ		80				PR	SM					
BHUA-05	79.27				hJ		70				PR	SM					
BHUA-05	79.30				V		70		wh mi Qtz		ST	SM		2			
BHUA-05	79.40				V		90		wh mi Qtz bk		CU	RF		20			
BHUA-05	79.40	79.94			SZ		75	90	wh-pl gn mi		ST						unknown amount of displacement noted along healed joint
BHUA-05	79.42				V		70		wh mi Qtz		PR	SM		2			
BHUA-05	79.45				hJ		90				PR	SM					
BHUA-05	79.50				hJ		80				PR	SM					
BHUA-05	79.60				hJ		60				PR	SM					
BHUA-05	79.66				J		30				IR	RF					
BHUA-05	79.73				J		5				PR	RF					
BHUA-05	79.76				hJ		60				PR	SM					
BHUA-05	79.76				hJ		60				PR	SM					
BHUA-05	79.78				hJ		60				PR	SM					
BHUA-05	79.93				J		60				PR	RF					
BHUA-05	80.03				hJ		50				PR	SM					
BHUA-05	80.10				V		80		wh mi Qtz		PR	SM		2			
BHUA-05	80.12				hJ		50				PR	SM					
BHUA-05	80.15				V		85		wh mi Qtz		PR	SM		2			
BHUA-05	80.15				V		20		wh mi Qtz		PR	SM		2			
BHUA-05	80.15				V		20		wh mi Qtz		PR	SM		2			
BHUA-05	80.25				hJ		50				PR	SM					
BHUA-05	80.25				hJ		60				PR	SM					
BHUA-05	80.30				J		90				CU	RF					
BHUA-05	80.30				hJ		50				PR	SM					
BHUA-05	80.30				AZ		80				IR	SM					
BHUA-05	80.31				J		10			CN	PR	RF					
BHUA-05	80.34				hJ		70				PR	SM					
BHUA-05	80.35				hJ		60				PR	SM					

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Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	80.37				V		80		yl mi	CT	PR	SM		2			
BHUA-05	80.40				J		10			CN	PR	SM					
BHUA-05	80.40				V		85		yl mi		PR	SM		2			
BHUA-05	80.41				V		90		wh mi Qtz		PR	SM		1			
BHUA-05	80.50				hJ		80				PR	SM					
BHUA-05	80.60				V		80				PR	SM					
BHUA-05	80.60				hJ		80		gn		PR	SM					
BHUA-05	80.60				hJ		85				PR	SM					
BHUA-05	80.60				hJ		30				PR	SM					
BHUA-05	80.60				hJ		80				PR	SM					
BHUA-05	80.64				hJ		30				PR	SM					
BHUA-05	80.65				hJ		70				PR	SM					
BHUA-05	80.68				hJ		70				PR	SM					
BHUA-05	80.70				CO		70		dolerite with granodiorite in contact with glassy basa		PR	RF					
BHUA-05	80.70				J		30			CN	PR	SM					
BHUA-05	80.70				J		30			CN	PR	SM					
BHUA-05	80.74				hJ		40				PR	SM					
BHUA-05	80.77				hJ		0				PR	SM					
BHUA-05	80.77				V		90		wh mi Qtz		ST	SM		1			
BHUA-05	80.80				hJ		85				ST	SM					
BHUA-05	80.80				V		90		wh mi Qtz		ST	SM		1			
BHUA-05	80.82				hJ		85				ST	SM					
BHUA-05	80.90				V		90		wh mi Qtz		PR	SM		2			
BHUA-05	80.90	81.65			SZ		85		wh-pl gn mi, Fe		UN	SM					apparent displacement unknown, possibly >20mm, rubbled and wedged host rock
BHUA-05	80.90				V		90		wh mi Qtz		ST	SM		1			
BHUA-05	80.93				V		85		wh mi Qtz		CU	SM		2			
BHUA-05	80.96				hJ		85				PR	SM					
BHUA-05	81.08				J		30				PR	RF					
BHUA-05	81.17				V		80		wh mi Qtz		ST	RF		2			
BHUA-05	81.24				hJ		10				PR	SM					
BHUA-05	81.63				hJ		90				PR	SM					
BHUA-05	81.67				hJ		85				PR	SM					
BHUA-05	81.71				hJ		70				PR	SM					
BHUA-05	81.81				hJ		30				PR	SM					
BHUA-05	81.84				hJ		30				PR	SM					
BHUA-05	81.87				V		90		wh mi Qtz		ST	SM		1			
BHUA-05	82.00				hJ		80				PR	SM					
BHUA-05	82.04				hJ		60				PR	SM					
BHUA-05	82.09				S		80			CN	PR	SM					
BHUA-05	82.13				hJ		90				PR	SM					
BHUA-05	82.17				hJ		60				PR	SM					
BHUA-05	82.19				hJ		60				PR	SM					
BHUA-05	82.22				hJ		90				PR	SM					
BHUA-05	82.24				J		15				PR	RF					
BHUA-05	82.26				hJ		60				PR	SM					
BHUA-05	82.30				V		85		wh mi Qtz		UN	SM		1			
BHUA-05	82.33				hJ		85				PR	SM					
BHUA-05	82.47				hJ		30				PR	SM					
BHUA-05	82.48				hJ		70				PR	SM					
BHUA-05	82.55				hJ		90				PR	SM					
BHUA-05	82.66				hJ		30		bk few pyrite		PR	SM					
BHUA-05	82.66				hJ		40				PR	SM					
BHUA-05	82.70				hJ		40				PR	SM					
BHUA-05	82.78				hJ		60				PR	SM					
BHUA-05	82.85				hJ		60				PR	SM					
BHUA-05	82.92				hJ		60				PR	SM					
BHUA-05	83.03				hJ		30				PR	RF					
BHUA-05	83.03				hJ		60				PR	SM					
BHUA-05	83.09				hJ		60				PR	SM					
BHUA-05	83.12				hJ		5				PR	SM					
BHUA-05	83.15				J		30				PR	RF					
BHUA-05	83.15				hJ		90				PR	SM					
BHUA-05	83.22				hJ		90				PR	SM					
BHUA-05	83.25				hJ		60				PR	SM					
BHUA-05	83.32				hJ		85				PR	SM					
BHUA-05	83.34				J		30				PR	SM					
BHUA-05	83.40				hJ		90				PR	SM					
BHUA-05	83.42				V		90		wh mi Qtz		ST	SM		1			
BHUA-05	83.46				hJ		30				PR	SM					
BHUA-05	83.54				hJ		30				PR	SM					
BHUA-05	83.63				hJ		30				PR	SM					
BHUA-05	83.66				J		5			CN	PR	SM					
BHUA-05	83.69				hJ		5				PR	SM					
BHUA-05	83.71				hJ		30				PR	SM					
BHUA-05	83.72				hJ		85				PR	SM					
BHUA-05	83.76				hJ		60				PR	SM					
BHUA-05	83.80				hJ		70				PR	SM					
BHUA-05	83.89				hJ		10				PR	SM					
BHUA-05	83.89				V		90		wh mi Qtz		PR	SM		2			

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	84.04				V		40		yl gn		PR	SM		1			
BHUA-05	84.04				hJ		90				PR	SM					
BHUA-05	84.04				hJ		85				PR	SM					
BHUA-05	84.13				hJ		85				PR	SM					
BHUA-05	84.36				hJ		85				PR	SM					
BHUA-05	84.45				hJ		60				PR	SM					
BHUA-05	84.50				hJ		60				PR	SM					
BHUA-05	84.50				hJ		60				PR	SM					
BHUA-05	84.56				hJ		60				PR	SM					
BHUA-05	84.58				CO		60		glassy basalt / Granodiorite		CU	SM					
BHUA-05	84.65				hJ		70				PR	SM					
BHUA-05	84.72				V		70		wh mi Qtz		PR	SM		1			
BHUA-05	84.92				hJ		70				PR	SM					
BHUA-05	84.93				hJ		60				PR	SM					
BHUA-05	84.97				hJ		90				PR	SM					
BHUA-05	85.00				V		60		yl		PR	SM		1			
BHUA-05	85.03				V		60		wh mi Qtz		PR	SM		1			
BHUA-05	85.10				hJ		60				PR	SM					
BHUA-05	85.16				hJ		90				PR	SM					
BHUA-05	85.18				hJ		70				PR	SM					
BHUA-05	85.23				hJ		70				PR	SM					
BHUA-05	85.29				J		40				PR	RF					
BHUA-05	85.62				V		60		wh mi Qtz		PR	SM		2			
BHUA-05	85.64				hJ		50				PR	SM					
BHUA-05	86.03				hJ		60				PR	SM					
BHUA-05	86.50				hJ		70				PR	SM					
BHUA-05	86.60				V		60		gn mi		PR	SM		2			
BHUA-05	86.70				hJ		65				PR	SM					
BHUA-05	86.85				V		60				PR	SM					
BHUA-05	87.00				hJ		85				PR	SM					
BHUA-05	87.22				J		10				PR	RF					
BHUA-05	87.66				hJ		60				PR	SM					
BHUA-05	87.80				hJ		80				PR	SM					
BHUA-05	87.82				hJ		70				PR	SM					
BHUA-05	87.88				J		40				PR	RF					
BHUA-05	87.88				hJ		90				PR	SM					
BHUA-05	87.95				hJ		90				PR	SM					
BHUA-05	87.96				hJ		60				PR	SM					
BHUA-05	88.09				hJ		60				PR	SM					
BHUA-05	88.12				V		80				PR	SM					
BHUA-05	88.13				CO		60		granodiorite/porphyry basalt		PR	RF					
BHUA-05	88.14				hJ		85				CU	SM					
BHUA-05	88.20				J		20				PR	RF					
BHUA-05	88.22				hJ		85				PR	SM					
BHUA-05	88.30				V		60		wh mi qtz carb anastomosed zone		PR	SM		2			
BHUA-05	88.30				hJ		80				PR	SM					
BHUA-05	88.38				V		60		wh mi qtz carbonate anastomosed zone		UN	SM		2			
BHUA-05	88.44				J		60		wh mi Qtz		PR	SM					
BHUA-05	88.45				V		90		wh mi Qtz carbonate		PR	SM		2			
BHUA-05	88.60				hJ		60				PR	SM					
BHUA-05	88.64				hJ		30				PR	SM					
BHUA-05	88.65				hJ		70				PR	SM					
BHUA-05	88.67				hJ		60				PR	SM					
BHUA-05	88.71				hJ		60				PR	SM					
BHUA-05	88.72				hJ		80				PR	SM					
BHUA-05	88.76				V		90		wh mi Qtz carbonate		PR	SM		2			
BHUA-05	88.79				hJ		60				PR	SM					
BHUA-05	88.83				hJ		60				PR	SM					
BHUA-05	89.04				hJ		85				PR	SM					
BHUA-05	89.16				hJ		10				PR	SM					
BHUA-05	89.19				hJ		70				PR	SM					
BHUA-05	89.20				V		85		wh mi Qtz		PR	SM		1			
BHUA-05	89.23				hJ		60				PR	SM					
BHUA-05	89.33				V		40		wh mi Qtz		PR	SM		1			
BHUA-05	89.38				hJ		70				PR	SM					
BHUA-05	89.42				hJ		70				PR	SM					
BHUA-05	89.42				V		80		wh mi Qtz		PR	SM		1			
BHUA-05	89.49				J		5				IR	RF					
BHUA-05	89.52				hJ		85				PR	SM					
BHUA-05	89.60				hJ		70				PR	SM					
BHUA-05	89.62				V		70		wh mi Qtz carbonate		PR	SM		2			
BHUA-05	89.62				AZ		70		gn alteration		IR	SM					
BHUA-05	89.63				hJ		5				PR	SM					
BHUA-05	89.72				hJ		20				PR	SM					
BHUA-05	89.74				hJ		20				PR	SM					
BHUA-05	89.77				hJ		20				PR	SM					
BHUA-05	89.80				hJ		30				PR	SM					
BHUA-05	89.82				V		70		wh mi Qtz carbonate		PR	SM		2			
BHUA-05	89.84	90.24			hJ		90				PR	SM					

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	89.96	90.25			V		90				PR	SM					
BHUA-05	89.96	90.20			hJ		90				PR	SM					
BHUA-05	90.03				hJ		70				PR	SM					
BHUA-05	90.06	90.22			J	x3	60		wh mi		UN						
BHUA-05	90.07				hJ		70			CN	PR	SM					
BHUA-05	90.18	90.33			hJ		60				PR						
BHUA-05	90.25				hJ		20				PR						
BHUA-05	90.25	90.32			hJ	x4	0	15	wh mi		PR						
BHUA-05	90.27	90.43			hJ		60				PR						
BHUA-05	90.38				hJ		30				PR						
BHUA-05	90.40				hJ		15		wh mi		UN						
BHUA-05	90.42	90.45			hJ		0	50	wh mi		CU						
BHUA-05	90.45				DB												
BHUA-05	90.45				hJ		20				PR						
BHUA-05	90.46				J		20		yl-gn mi	SN	PR	RF					
BHUA-05	90.56	90.70			SZ		0	45	wh-gy mi	VN	IR	RF					
BHUA-05	90.77				hJ		30				PR			2			
BHUA-05	90.80	90.91			hJ	x2	90				UN						
BHUA-05	90.90				hJ		60				PR						
BHUA-05	90.93				hJ		30				PR			1			
BHUA-05	91.00				J		5			CN	PR	RF					
BHUA-05	91.06				hJ		40				PR						
BHUA-05	91.08				hJ		30				PR						
BHUA-05	91.11				hJ		5				PR						
BHUA-05	91.14				hJ		5				PR						
BHUA-05	91.16				hJ		5				PR						
BHUA-05	91.20				hJ		30				PR						
BHUA-05	91.20				hJ		60				PR						
BHUA-05	91.22				J		40			CN	PR	RF					
BHUA-05	91.29				hJ		15				PR						
BHUA-05	91.29				V		90				PR			1			
BHUA-05	91.35				V		90		possible DB		UN			2			
BHUA-05	91.39				V		85				UN			2			
BHUA-05	91.40				J		40			CN	PR	RF					
BHUA-05	91.40				V		90				PR			1			
BHUA-05	91.59				J		20			CN	PR	RF					
BHUA-05	91.65				V		90				ST			5			
BHUA-05	91.73				J		15			CN	PR	RF					
BHUA-05	91.76				J		15			CN	PR	RF					
BHUA-05	91.76				hJ		90				PR						
BHUA-05	91.78				J		15			CN	PR	RF					
BHUA-05	91.80				J		15			CN	PR	RF					
BHUA-05	91.86				J		15			CN	PR	RF					
BHUA-05	91.86				hJ		30				PR						
BHUA-05	91.91				J		15			CN	PR	RF					
BHUA-05	91.95				V		85				UN			2			
BHUA-05	92.01				J		15			CN	PR	RF					
BHUA-05	92.14				hJ		30				PR						
BHUA-05	92.27				J		10			CN	PR	RF					
BHUA-05	92.27				J		30			CN	PR	RF					
BHUA-05	92.33				V		85				UN			2			
BHUA-05	92.44				hJ		30				PR						
BHUA-05	92.46	92.52			FZ				fractured zone								
BHUA-05	92.48				J		70			CN	PR	RF					
BHUA-05	92.53				CO		60		porphyritic basalt / dolerite								
BHUA-05	92.60				V		70				PR			1			
BHUA-05	92.74				CO		60		dolerite / granodiorite								
BHUA-05	92.82				J		30			CN	PR	RF					
BHUA-05	92.82				hJ		70				PR						
BHUA-05	92.92				V		70				PR			1			
BHUA-05	92.95				J		40			CN	PR	RF					
BHUA-05	93.05				V		85				PR			2			
BHUA-05	93.06				J		50			CN	PR	RF					
BHUA-05	93.08				hJ		90				PR						
BHUA-05	93.40				J		60			CN	PR	RF					
BHUA-05	93.54				J		60			CN	PR	RF					
BHUA-05	93.56				J		60			CN	PR	RF					
BHUA-05	93.56				hJ		90				PR						
BHUA-05	93.56				V		90				PR			2			
BHUA-05	93.61				V		90				PR			2			
BHUA-05	93.66				V		90		yl alt halo		PR			2			
BHUA-05	93.73				hJ		70				PR						
BHUA-05	93.83				hJ		5				PR						
BHUA-05	93.96				hJ		5				PR						
BHUA-05	94.02				V		60		gn halo		PR			2			
BHUA-05	94.09				V		60				PR			5			
BHUA-05	94.23				V		60				PR			20			
BHUA-05	94.25				J		5			CN	PR	RF					
BHUA-05	94.26				J		5			CN	PR	RF					

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	94.32				J		60			CN	PR	RF					
BHUA-05	94.35				J		60			CN	PR	RF					
BHUA-05	94.46				V		60				PR			2			
BHUA-05	94.50				V		60				PR			2			
BHUA-05	94.67				hJ		30				PR						
BHUA-05	94.67				V		60				PR			1			
BHUA-05	94.70				V		60				PR			1			
BHUA-05	94.71				V		90				PR			1			
BHUA-05	94.81				V		90		alt halo		UN			2			
BHUA-05	94.90				J		70		highly altered with some veins/joints dipping 90								
BHUA-05	95.01				J		30			CN	PR	RF					
BHUA-05	95.01	95.15			SZ		55		sheared faulted zone altered with clay or faulted gau								
BHUA-05	95.14				CO		70		fine grained diorite/granodiorite								
BHUA-05	95.36				hJ		80				PR						
BHUA-05	95.40				hJ		60				PR						
BHUA-05	95.41				J		20			CN	PR	RF					
BHUA-05	95.47				J		30			CN	PR	RF					
BHUA-05	95.50				V		60				PR			2			
BHUA-05	95.54				V		60				PR			2			
BHUA-05	95.58				V		60				PR			2			
BHUA-05	95.65				FZ		70		highly altered fractured zone								
BHUA-05	95.87				V		90				PR			2			
BHUA-05	96.00				CO		60		granodiorite/dolerite, shear zone highly altered								
BHUA-05	96.10				V		90				PR			1			
BHUA-05	96.10				V		90				PR			2			
BHUA-05	96.15				hJ		60				PR						
BHUA-05	96.24				hJ		60				PR						
BHUA-05	96.25				hJ		60				PR						
BHUA-05	96.25				V		70				PR			2			
BHUA-05	96.27				hJ		60				PR						
BHUA-05	96.30				V		80				PR			2			
BHUA-05	96.30				J				highly altered								
BHUA-05	96.32				V		80				PR			1			
BHUA-05	96.33				hJ		60				PR						
BHUA-05	96.38				V		60				PR			1			
BHUA-05	96.38				hJ		60				PR						
BHUA-05	96.38				V		80				PR			2			
BHUA-05	96.39				hJ		60				PR						
BHUA-05	96.43				hJ		80				PR						
BHUA-05	96.46				V		50				PR			2			
BHUA-05	96.51				V		60				PR			2			
BHUA-05	96.51				hJ		80				PR						
BHUA-05	96.66				hJ		85				PR						
BHUA-05	96.75				hJ		40				PR			1			
BHUA-05	96.78				hJ		40				PR			1			
BHUA-05	96.81				hJ		70				PR			1			
BHUA-05	96.88				hJ		45				PR						
BHUA-05	96.90				hJ		70				PR						
BHUA-05	96.90				hJ		45				PR						
BHUA-05	97.00				hJ		90				PR			1			
BHUA-05	97.04				V		60		alt halo		PR			1			
BHUA-05	97.05				V		55				PR			1			
BHUA-05	97.07				V		60				PR			2			
BHUA-05	97.12				J		60			CN	PR	RF					
BHUA-05	97.18				V		70				PR			2			
BHUA-05	97.25				hJ		90				PR						
BHUA-05	97.34				V		90		altered		CU			2			
BHUA-05	97.35				V		60				ST			2			
BHUA-05	97.35				V		90				CU			1			
BHUA-05	97.41				hJ		90				PR						
BHUA-05	97.66				hJ		60				PR						
BHUA-05	97.66				V		80		altered		PR			2			
BHUA-05	97.67				J		45			CN	PR	RF					
BHUA-05	97.73				hJ		85				PR						
BHUA-05	97.82				hJ		50				PR						
BHUA-05	97.95				V		90				UN			5			
BHUA-05	98.05				hJ		80				UN						
BHUA-05	98.14				hJ		70				PR						
BHUA-05	98.18				hJ		70				PR						
BHUA-05	98.23				hJ		70				PR						
BHUA-05	98.39				hJ		60				PR						
BHUA-05	98.47				hJ		60				PR						
BHUA-05	98.64				V		85		altered		UN			5			
BHUA-05	98.70				hJ		60				PR						
BHUA-05	98.72				J		60			CN	PR	RF					
BHUA-05	98.76				J		60			CN	PR	RF					
BHUA-05	98.90				V		85				ST			2			
BHUA-05	98.97				J		5			CN	PR	RF					
BHUA-05	99.12				V		80				PR			5			

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	99.12				hJ		80				PR						
BHUA-05	99.17				V		80				PR			2			
BHUA-05	99.33				hJ		5				PR						
BHUA-05	99.35				V		85				ST			1			
BHUA-05	99.36				hJ		70				PR						
BHUA-05	99.39				hJ		10				PR						
BHUA-05	99.50				V		85				ST			2			
BHUA-05	99.75				J		10			CN	IR	RF					
BHUA-05	99.87				hJ		80				PR						
BHUA-05	99.90				hJ		5				PR						
BHUA-05	99.91				hJ		60				PR						
BHUA-05	99.92				hJ		60				PR						
BHUA-05	99.97				hJ		5				PR						
BHUA-05	100.01				hJ		5				PR						
BHUA-05	100.05				V		60		alt halo		PR			30			
BHUA-05	100.11				hJ		10				PR						
BHUA-05	100.12				V		60				PR			1			
BHUA-05	100.13				V		60				PR			5			
BHUA-05	100.17				V		70				PR			5			
BHUA-05	100.21				V		85				UN			3			
BHUA-05	100.21				J		70		highly altered and oxidised								
BHUA-05	100.21				J		60			CN	PR	RF					
BHUA-05	100.30	100.62			SZ		20	80	highly altered and brecciated host rock within shear :		IR						
BHUA-05	100.31				V		70				PR			2			
BHUA-05	100.36	100.45			hJ		70				PR						
BHUA-05	100.50				J		5			CN	PR	RF					
BHUA-05	100.50				V		80		rd oxidised		UN			5			
BHUA-05	100.57				V		60				PR			1			
BHUA-05	100.60	100.86			J		80		highly altered and brecciated host rock		IR	RF					
BHUA-05	100.66				hJ		60				PR						
BHUA-05	100.67				J		60										
BHUA-05	100.84				J		10			CN	PR	RF					
BHUA-05	100.84				J		60		rd oxidised, possibly highly altered and brecciated h								
BHUA-05	100.85				V		60		rd oxidised		PR			3			
BHUA-05	100.87				J		60			CN	PR	RF					
BHUA-05	100.95				V		85				PR			1			
BHUA-05	100.96				V		80				PR			1			
BHUA-05	101.00				V		80				PR			1			
BHUA-05	101.02				hJ		60				PR						
BHUA-05	101.08				hJ		60				PR						
BHUA-05	101.13				V		80				PR			1			
BHUA-05	101.22				V		85				PR			1			
BHUA-05	101.25				V		85				PR			1			
BHUA-05	101.25				V		85				PR			1			
BHUA-05	101.28	102.80			SZ		75	90	highly altered, brecciated and healed host rock		IR						multiple shear surfaces, unknown vertical displacement, possibly >200mm
BHUA-05	101.35				V		90				PR			1			
BHUA-05	101.48				V		85				PR			3			
BHUA-05	101.50				J		5			CN	PR	RF					
BHUA-05	101.60				V		60				PR			1			
BHUA-05	101.65				J		5			CN	PR	RF					
BHUA-05	101.81				hJ		85				PR						
BHUA-05	102.00				V		70				PR			2			
BHUA-05	102.10				J		90		brecciated material, 50 mm displacement, right bloc								
BHUA-05	102.12				V		70				PR			5			
BHUA-05	102.20				V		70				PR			5			
BHUA-05	102.25				V		80				PR			1			
BHUA-05	102.38				J		85			CN	PR	RF					
BHUA-05	102.42				V		70				PR			3			
BHUA-05	102.50				V		90				PR			2			
BHUA-05	102.59				hJ		30				PR						
BHUA-05	102.68				V		60				PR			10			
BHUA-05	102.73				J		20			CN	PR	RF					
BHUA-05	102.73				hJ		80				PR						
BHUA-05	102.85				J		20			CN	PR	RF					
BHUA-05	103.00				CO		70		quartz dolerite / dolerite					1			
BHUA-05	103.00				J		60		gn mi	SN	PR	SM					
BHUA-05	103.00				hJ		90				PR						
BHUA-05	103.05				V		60				PR			1			
BHUA-05	103.06				hJ		90				PR						
BHUA-05	103.10				hJ		80				PR						
BHUA-05	103.10				V		90				PR			1			
BHUA-05	103.15				V		70		anastomosed zone		PR			1			
BHUA-05	103.24				hJ		40				PR						
BHUA-05	103.36				V		70		anastomosed zone		PR			1			
BHUA-05	103.37				J		60			CN	PR	RF					
BHUA-05	103.52				hJ		90				PR						
BHUA-05	103.56				hJ		70				PR						
BHUA-05	103.70				V		70				PR			1			
BHUA-05	103.75				J		30			CN	PR	RF					

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Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	103.80				hJ		30				PR						
BHUA-05	103.81				hJ		70				PR						
BHUA-05	103.92				V		70				PR			1			
BHUA-05	104.05				V		80				PR			3			
BHUA-05	104.08				hJ		60				PR						
BHUA-05	104.20				J		5			CN	PR	RF					
BHUA-05	104.27				hJ		70				PR						
BHUA-05	104.41				V		60				PR			3			
BHUA-05	104.58				V		70				PR			2			
BHUA-05	104.63				J		5			CN	PR	RF					
BHUA-05	104.65				hJ		90				PR						
BHUA-05	104.72				hJ		90				PR						
BHUA-05	104.92				V		70				PR			3			
BHUA-05	105.00				hJ		90				PR						
BHUA-05	105.14				hJ		70				PR						
BHUA-05	105.20				hJ		90				PR						
BHUA-05	105.30				hJ		90				PR						
BHUA-05	105.40				hJ		30				PR						
BHUA-05	105.45				V		80				PR			4			
BHUA-05	105.54				hJ		90				PR						
BHUA-05	105.64				hJ		70				PR						
BHUA-05	105.70				J		5			CN	PR	RF					
BHUA-05	105.70				J		10			CN	PR	RF					
BHUA-05	105.70				hJ		60				PR						
BHUA-05	105.75				hJ		70		altered								
BHUA-05	105.91				hJ		60				PR						
BHUA-05	105.95	107.61			J	x3	80	90	wh mi	CT	PR	RF		20			multiple sub-parallel defects, no apparent displacement, rubbled host rock likely from drilling, sporadic Fe SN
BHUA-05	106.09				J		5			CN	PR	RF					
BHUA-05	106.14				V		60				PR			1			
BHUA-05	106.25				J		5			CN	PR	RF					
BHUA-05	106.40				J		5			CN	PR	RF					
BHUA-05	106.50				J		5			CN	PR	RF					
BHUA-05	106.60				J		5			CN	PR	RF					
BHUA-05	106.65				hJ		70				PR						
BHUA-05	106.90				J		5			CN	PR	RF					
BHUA-05	106.90				V		85		altered		PR			4			
BHUA-05	106.98				V		88		altered		PR			5			
BHUA-05	107.12				V		90		altered		PR			5			
BHUA-05	107.13				J		5			CN	PR	RF					
BHUA-05	107.25				V		90		altered		PR			5			
BHUA-05	107.33				J		5			CN	PR	RF					
BHUA-05	107.34				V		70				PR			4			
BHUA-05	107.70				hJ		80		alt halo		PR						
BHUA-05	107.85				hJ		90		alt halo		PR						
BHUA-05	107.86				J		5			CN	PR	RF					
BHUA-05	107.88				V		80				PR			4			
BHUA-05	107.94				V		90				PR			1			
BHUA-05	108.16				V		80				PR			4			
BHUA-05	108.23				hJ		85				PR						
BHUA-05	108.55				hJ		60				PR						
BHUA-05	108.62				hJ		70				PR						
BHUA-05	108.65				hJ		70				PR						
BHUA-05	108.70				hJ		90				PR						
BHUA-05	108.75				hJ		85				PR						
BHUA-05	108.77				V		60				PR			2			
BHUA-05	108.85				hJ		85				PR						
BHUA-05	108.87				J		20			CN	PR	RF					
BHUA-05	109.04				hJ		40				PR						
BHUA-05	109.08				J		20			CN	PR	RF					
BHUA-05	109.09				hJ		80				PR						
BHUA-05	109.28				V		60				PR			2			
BHUA-05	109.60				hJ		20				PR						
BHUA-05	109.62	109.99			hJ		70	80	altered-oxidised		PR			20			20 mm displacement
BHUA-05	109.67				hJ		90				PR						
BHUA-05	109.70				J		20			CN	PR	RF					
BHUA-05	109.84				V		70				PR			2			
BHUA-05	109.92				V		70				PR			2			
BHUA-05	109.92	110.45			hJ		85		altered-oxidised		PR			5			20-30mm displacement
BHUA-05	110.00				hJ		60				PR						
BHUA-05	110.01				hJ		20				PR						
BHUA-05	110.01				hJ		70				PR						
BHUA-05	110.14				V		60				PR			5			
BHUA-05	110.18				J		5			CN	PR	RF					
BHUA-05	110.22				hJ		20				PR						
BHUA-05	110.23				J		10			CN	PR	RF					
BHUA-05	110.31				hJ		70				PR						
BHUA-05	110.54				V		70				PR			2			
BHUA-05	110.59				V		60				PR			2			
BHUA-05	110.67				J		5			CN	PR	RF					

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Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	110.68				V		70				PR			2			
BHUA-05	110.70				J		30			CN	PR	RF					
BHUA-05	110.72				V		75				PR			2			
BHUA-05	110.79				V		70				PR			2			
BHUA-05	111.04				hJ		70				PR						
BHUA-05	111.07				hJ		90				PR						
BHUA-05	111.10				hJ		85				PR						
BHUA-05	111.31				hJ		30				PR						
BHUA-05	111.33				V		90		alt halo		PR			2			
BHUA-05	111.53				hJ		5				PR						
BHUA-05	111.69				hJ		60				PR						
BHUA-05	111.77				J		5			CN	PR	RF					
BHUA-05	111.96				hJ		60				PR						
BHUA-05	112.02				hJ		70				PR						
BHUA-05	112.07				hJ		40				PR						
BHUA-05	112.09				hJ		45				PR						
BHUA-05	112.14				hJ		90				PR						
BHUA-05	112.32				J		5			CN	PR	RF					
BHUA-05	112.34				V		80				PR			2			
BHUA-05	112.34				J		20			CN	PR	RF					
BHUA-05	112.35				hJ		45				PR						
BHUA-05	112.48				hJ		60				PR						
BHUA-05	112.61				V		80				PR			1			
BHUA-05	112.62				J		5			CN	PR	RF					
BHUA-05	112.66				hJ		80				PR						
BHUA-05	112.70				hJ		60				PR						
BHUA-05	112.79				hJ		50				PR						
BHUA-05	112.85				V		80				PR			2			
BHUA-05	112.87				hJ		60				PR						
BHUA-05	112.90				hJ		60				PR						
BHUA-05	112.98				hJ		60				PR						
BHUA-05	112.98				hJ		60				PR						
BHUA-05	113.00				hJ		90				PR						
BHUA-05	113.02				V		90				PR			2			
BHUA-05	113.08				J		20			CN	PR	RF					
BHUA-05	113.16				hJ		30				PR						
BHUA-05	113.26				V		60				PR			2			
BHUA-05	113.30				V		60				PR			1			
BHUA-05	113.34				hJ		85				PR						
BHUA-05	113.43				J		30			CN	PR	RF					
BHUA-05	113.47				V		60				PR			2			
BHUA-05	113.64				hJ		70				PR						
BHUA-05	113.75				J		5			CN	PR	RF					
BHUA-05	113.79				hJ		60				PR						
BHUA-05	113.90				V		80				PR			1			
BHUA-05	113.90				V		60				PR			1			
BHUA-05	113.92				V		60				PR			1			
BHUA-05	113.98				J		70			CN	PR	RF					
BHUA-05	114.00				hJ		70				PR						
BHUA-05	114.13				hJ		20				PR						
BHUA-05	114.13				V		90				CU			2			
BHUA-05	114.21				J		10			CN	PR	RF					
BHUA-05	114.27				hJ		60				PR						
BHUA-05	114.32	114.43			J		50	55	wh mi	SN	UN	RF					possible crushed seam, rubbled by drilling
BHUA-05	114.33				V		60		pk alt		CU			8			
BHUA-05	114.43				hJ		90				PR						
BHUA-05	114.44				V		60				PR			5			
BHUA-05	114.46				V		70		gn alt halo		CU			4			
BHUA-05	114.55				hJ		75				PR						
BHUA-05	114.58				hJ		70				PR						
BHUA-05	114.66	114.82			hJ		70		wh mi with brecciated host rock		UN			10			
BHUA-05	114.70				hJ		70				CU						
BHUA-05	114.79				hJ		90				PR						
BHUA-05	114.80				hJ		20				PR						
BHUA-05	114.86				J		5			CN	PR	RF					
BHUA-05	114.87				hJ		70				PR						
BHUA-05	114.87				hJ		70				PR						
BHUA-05	114.92				hJ		70				PR						
BHUA-05	114.98				hJ		60				PR						
BHUA-05	115.12				hJ		40				PR						
BHUA-05	115.13				hJ		70				PR						
BHUA-05	115.20				J		30			CN	PR	RF					
BHUA-05	115.21				V		60				PR			2			
BHUA-05	115.29				hJ		90				PR						
BHUA-05	115.30				hJ		90				PR						
BHUA-05	115.33				hJ		90				PR						
BHUA-05	115.38				hJ		30				PR						
BHUA-05	115.44				hJ		5				ST						
BHUA-05	115.57				hJ		30				PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	115.65				J		5			CN	PR	RF					
BHUA-05	115.70				hJ		70				PR						
BHUA-05	115.78				V		80				PR			3			
BHUA-05	115.88				hJ		20				PR						
BHUA-05	115.96				hJ		70				PR						
BHUA-05	116.00				V		90				PR			1			
BHUA-05	116.11				hJ		80				PR						
BHUA-05	116.14				hJ		50				PR						
BHUA-05	116.16				J		40			CN	PR	RF					
BHUA-05	116.19	116.63			FZ				gn alt		IR	RF					multiple defects, various angles, 10-30mm spacing, highly altered
BHUA-05	116.58				V		90				PR			1			
BHUA-05	116.59				hJ		50				PR						
BHUA-05	116.59				hJ		90				PR						
BHUA-05	116.63				hJ		40				PR						
BHUA-05	116.63				hJ		60				PR						
BHUA-05	117.00				V		50				PR			1			
BHUA-05	117.00				V		60				PR			2			
BHUA-05	117.00				V		70				PR			2			
BHUA-05	117.00				V		80				PR			2			
BHUA-05	117.00				hJ		90				PR						
BHUA-05	117.10	117.33			S		85		wh mi		PR						1-5mm vertical displacement
BHUA-05	117.20				V		60				PR			2			
BHUA-05	117.28				J		60		breacciated fractured zone					2			
BHUA-05	117.34				V		90				UN			2			
BHUA-05	117.38				J		5			CN	PR	RF					
BHUA-05	117.52				hJ		50				PR						
BHUA-05	117.60				V		20				PR			1			
BHUA-05	117.70				V		70				PR			1			
BHUA-05	117.70				J		90			CT	PR	RF	<	1			
BHUA-05	117.73	119.13			FZ		70	90			UN						likely shear zone with rubbled base of zone, generally closed to healed
BHUA-05	117.74				J		20			CT	PR	RF	<	1			
BHUA-05	117.84				J		70			CT	PR	RF	<	1			
BHUA-05	117.84				V		90				CU			1			
BHUA-05	117.90				hJ		90				PR						
BHUA-05	118.00				hJ		60				PR						
BHUA-05	118.00				hJ		70				PR						
BHUA-05	118.06				hJ		80				PR						
BHUA-05	118.09				V		90				PR			2			
BHUA-05	118.25				V		80				PR			2			
BHUA-05	118.27				V		80				PR			1			
BHUA-05	118.40	119.00			CO		80		highly altered granodiorite / glassy basalt								
BHUA-05	118.50				J		70			CN	PR	RF					
BHUA-05	118.80				J		20			CN	PR	RF					
BHUA-05	118.80				V		70				UN			4			
BHUA-05	119.00	119.13			FZ							RF					multiple defects, 0-10mm spacing, further rubbled by drilling
BHUA-05	119.01				V		70				PR			1			
BHUA-05	119.20				V		90				PR			2			
BHUA-05	119.20				V		90				PR			2			
BHUA-05	119.23				hJ		70				PR						
BHUA-05	119.50				V		70				PR			1			
BHUA-05	119.56				V		70				PR			2			
BHUA-05	119.73				hJ		70				PR						
BHUA-05	119.80				V		70				PR			2			
BHUA-05	119.90				V		70				PR			4			
BHUA-05	120.25				hJ		70				PR						
BHUA-05	120.31				hJ		70				PR						
BHUA-05	120.36				V		80				PR			3			
BHUA-05	120.45				hJ		70				PR						
BHUA-05	120.50				hJ		70				PR						
BHUA-05	120.57				hJ		20				PR						
BHUA-05	120.63				hJ		60				PR						
BHUA-05	120.70				hJ		70				PR						
BHUA-05	120.76				hJ		40				PR						
BHUA-05	120.90				hJ		70				PR						
BHUA-05	121.07				V		70				PR			2			
BHUA-05	121.12				V		85				PR			1			
BHUA-05	121.13				V		70				PR			1			
BHUA-05	121.18				V		85				PR			1			
BHUA-05	121.27				V		70				PR			1			
BHUA-05	121.32				hJ		70				PR						
BHUA-05	121.35				V		65				PR			2			
BHUA-05	121.41				hJ		70				PR						
BHUA-05	121.50				V		70				PR			1			
BHUA-05	121.50				V		70				PR			1			
BHUA-05	121.64				hJ		60				PR						
BHUA-05	121.80				V		60				PR			1			
BHUA-05	121.86				V		80				PR			1			
BHUA-05	122.13				V		70				PR			1			
BHUA-05	122.14				hJ		40				PR						

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Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	122.15				hJ		85				PR						
BHUA-05	122.17				V		70				PR			1			
BHUA-05	122.19				hJ		5				PR						
BHUA-05	122.36				V		60				PR			10			
BHUA-05	122.40				V		70		alt halo		PR			30			
BHUA-05	122.45				hJ		5				PR						
BHUA-05	122.65				V		70				PR			1			
BHUA-05	122.73				hJ		80				PR						
BHUA-05	122.85				hJ		20				PR						
BHUA-05	122.85				V		70				PR			1			
BHUA-05	122.93				V		80				PR			1			
BHUA-05	122.94				V		70				PR			1			
BHUA-05	122.95				V		70				PR			20			
BHUA-05	123.00				V		90				PR			3			
BHUA-05	123.25				V		85				PR			1			
BHUA-05	123.25				V		90				PR			5			
BHUA-05	123.30				hJ		90				PR						
BHUA-05	123.35	123.45			AZ						IR						multiple defects, various angles, generally sub-horizontal, 1-5mm width, 0-10mm spacing
BHUA-05	123.38				hJ		5				PR						
BHUA-05	123.41				hJ		5				PR						
BHUA-05	123.43				hJ		60				PR						
BHUA-05	123.44				hJ		5				PR						
BHUA-05	123.46				hJ		5				PR						
BHUA-05	123.47				hJ		70				PR						
BHUA-05	123.50				hJ		5				PR						
BHUA-05	123.50				hJ		80				PR						
BHUA-05	123.55				hJ		5				PR						
BHUA-05	123.58				hJ		5				PR						
BHUA-05	123.60				hJ		60				PR						
BHUA-05	123.66				hJ		5				PR						
BHUA-05	123.73				J		60			CN	PR	RF					
BHUA-05	123.80				V		60				PR			1			
BHUA-05	123.83				V		85				PR			2			
BHUA-05	123.84				V		10		alt halo		PR			8			
BHUA-05	123.87				V		60				PR			2			
BHUA-05	123.98				V		60		alt halo		PR			25			
BHUA-05	124.00				V		80				PR			2			
BHUA-05	124.08				hJ		30				PR						
BHUA-05	124.10				V		70				PR			3			
BHUA-05	124.13				V		70				PR			3			
BHUA-05	124.15				hJ		60				PR						
BHUA-05	124.18				hJ		85				PR						
BHUA-05	124.25				hJ		70				PR						
BHUA-05	124.27				V		80				PR			10			
BHUA-05	124.28				J		50			CN	PR	RF					
BHUA-05	124.29				hJ		75				PR						
BHUA-05	124.32				hJ		70				PR						
BHUA-05	124.41				V		30				PR			2			
BHUA-05	124.42				V		60				PR			2			
BHUA-05	124.56				hJ		70				PR						
BHUA-05	124.60				V		60				PR			3			
BHUA-05	124.71				hJ		30				PR						
BHUA-05	124.78				hJ		60				PR						
BHUA-05	124.83				hJ		10				PR						
BHUA-05	124.95				V		60				PR			2			
BHUA-05	125.12				hJ		30				PR						
BHUA-05	125.25				hJ		10				PR						
BHUA-05	125.31				V		80				PR			2			
BHUA-05	125.38				V		40				PR			4			
BHUA-05	125.46				V		80				PR			2			
BHUA-05	125.56				hJ		60				PR						
BHUA-05	125.72				V		70				PR			2			
BHUA-05	125.73				J		60			CN	PR	RF					
BHUA-05	126.00				hJ		60				PR						
BHUA-05	126.08				V		60				PR			2			
BHUA-05	126.22				hJ		70				PR						
BHUA-05	126.25				J		5			CN	PR	RF					
BHUA-05	126.27				hJ		15				PR						
BHUA-05	126.36				J		15			CN	PR	RF					
BHUA-05	126.44				AZ		15										
BHUA-05	126.48				hJ		20				PR						
BHUA-05	126.50				J		60			CT	PR	RF	<	1			
BHUA-05	126.55				hJ		85				PR						
BHUA-05	126.57				hJ		90				PR						
BHUA-05	126.60				V		80				PR			2			
BHUA-05	126.61				V		70				PR			2			
BHUA-05	126.61				hJ		80				PR						
BHUA-05	126.62				hJ		60				PR						
BHUA-05	126.67				hJ		80				PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	126.76				V		40				PR			2			
BHUA-05	126.89				V		20				PR			2			
BHUA-05	126.91				J		20			CT	PR	RF	<	1			
BHUA-05	126.95				AZ												
BHUA-05	127.01				hJ		60				PR						
BHUA-05	127.03				hJ		20				PR						
BHUA-05	127.05				hJ		60				PR						
BHUA-05	127.06				V		60				PR			1			
BHUA-05	127.19				hJ		70				PR			1			
BHUA-05	127.28				V		70		alt halo		PR			15			
BHUA-05	127.35				V		70				PR			1			
BHUA-05	127.36				V		40				PR			1			
BHUA-05	127.43				AZ												
BHUA-05	127.47				J		30			CN	PR	RF					
BHUA-05	127.50				V		45				PR			1			
BHUA-05	127.55				hJ		90				PR						
BHUA-05	127.60				V		5				PR			8			
BHUA-05	127.63				hJ		30				PR						
BHUA-05	127.68				V		30				PR			10			
BHUA-05	127.70				V		15				PR			2			
BHUA-05	127.73				V		20				PR			3			
BHUA-05	127.80				V		60				PR			1			
BHUA-05	127.86				V		60				PR			1			
BHUA-05	127.93				hJ		60				PR						
BHUA-05	128.00				V		80				PR			10			
BHUA-05	128.05				hJ		60				PR						
BHUA-05	128.07				V		60				PR			2			
BHUA-05	128.12				hJ		10				PR						
BHUA-05	128.17				V		70				PR			2			
BHUA-05	128.22				hJ		30				PR						
BHUA-05	128.25				J		70			CN	PR	RF					
BHUA-05	128.25				V		60				PR			1			
BHUA-05	128.26				V		70				PR			1			
BHUA-05	128.37				V		60				PR			1			
BHUA-05	128.42				V		5				PR			1			
BHUA-05	128.44				V		5				PR			2			
BHUA-05	128.46				V		70				ST			5			
BHUA-05	128.60				AZ												
BHUA-05	128.63				J		60			CN	PR	RF					
BHUA-05	128.63				FZ		60		fractured zone								
BHUA-05	128.65				J		60			CN	PR	RF					
BHUA-05	128.75				CO		60		glassy basalt / granodiorite								
BHUA-05	128.76				hJ		70				PR						
BHUA-05	128.84				AZ		30										
BHUA-05	129.05				hJ		20				PR						
BHUA-05	129.10				hJ		60				PR						
BHUA-05	129.20	129.33			FZ						IR	RF					rubbled by drilling, 0-10mm spacing
BHUA-05	129.28				V		60				PR			5			
BHUA-05	129.41				V		5				PR			4			
BHUA-05	129.43				V		60				PR			1			
BHUA-05	129.62				hJ		30				PR						
BHUA-05	129.72				hJ		60				PR						
BHUA-05	129.90				hJ		5				PR						
BHUA-05	130.03				V		60				PR			1			
BHUA-05	130.06				J		5			CN	PR	RF					
BHUA-05	130.13				hJ		5				PR						
BHUA-05	130.25				hJ		5				PR						
BHUA-05	130.32				V		70				PR			2			
BHUA-05	130.38				J		5			CN	PR	RF					
BHUA-05	130.42				V		70		pk halo		PR			2			
BHUA-05	130.46				hJ		40				PR						
BHUA-05	130.54				hJ		70				PR						
BHUA-05	130.60				hJ		70				PR						
BHUA-05	130.61				hJ		90				PR						
BHUA-05	130.66				hJ		70		pk halo		PR						
BHUA-05	130.77				hJ		10				PR						
BHUA-05	130.87				V		60				PR			2			
BHUA-05	131.03				hJ		30				PR						
BHUA-05	131.16				V		30				PR			2			
BHUA-05	131.23				hJ		10				PR						
BHUA-05	131.29				J		10			CN	PR	RF					
BHUA-05	131.30				hJ		15				PR						
BHUA-05	131.45				hJ		80				PR						
BHUA-05	131.60				V		45				PR			1			
BHUA-05	131.70				V		30				PR			2			
BHUA-05	131.83				J		15			CN	PR	RF					
BHUA-05	132.02				hJ		5				PR						
BHUA-05	132.17				V		70				PR			8			
BHUA-05	132.19				V		85				CU			8			

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	132.42				V		5				PR			2			
BHUA-05	132.51				V		5				PR			2			
BHUA-05	132.71				V		60				PR			2			
BHUA-05	132.95				V		90				PR			2			
BHUA-05	133.02				V		80				PR			4			
BHUA-05	133.15				hJ		70				PR						
BHUA-05	133.23				V		70				PR			10			
BHUA-05	133.32				J		60			CN	PR	RF					
BHUA-05	133.36				hJ		60				PR			1			
BHUA-05	133.36				V		85				PR			1			
BHUA-05	133.53				V		30				PR			1			
BHUA-05	133.66				V		90				UN			4			
BHUA-05	133.76				V		70				PR			1			
BHUA-05	133.82				hJ		60				PR						
BHUA-05	133.91				hJ		5				PR						
BHUA-05	133.93				hJ		60				PR						
BHUA-05	134.08				V		10				PR			1			
BHUA-05	134.18				V		10				PR			1			
BHUA-05	134.29				hJ		30				PR						
BHUA-05	134.35				hJ		30				UN			1			
BHUA-05	134.38				hJ		90				PR						
BHUA-05	134.46				V		90				UN			1			
BHUA-05	134.72				hJ		5				PR						
BHUA-05	134.82				hJ		10				PR						
BHUA-05	134.93				J		20			CN	PR	RF					
BHUA-05	134.98				hJ		60				PR						
BHUA-05	135.05				V		90				PR			2			
BHUA-05	135.12				hJ		40				PR						
BHUA-05	135.37				hJ		10				PR						
BHUA-05	135.57				hJ		10				PR						
BHUA-05	135.63				hJ		10				PR						
BHUA-05	135.72				V		80				PR			1			
BHUA-05	135.77				V		90		highly altered		PR			1			
BHUA-05	135.95				hJ		90				PR						
BHUA-05	136.06				hJ		90				PR						
BHUA-05	136.40				V		85				PR			2			
BHUA-05	136.48				V		80				PR			2			
BHUA-05	136.53				V		75				PR			2			
BHUA-05	136.60				hJ		85				PR						
BHUA-05	136.78				V		90				PR			2			
BHUA-05	137.05				hJ		70				PR						
BHUA-05	137.13				V		60				PR			2			
BHUA-05	137.30				V		60				PR			2			
BHUA-05	137.70				J		70		closed spaced								
BHUA-05	137.96				J		70										
BHUA-05	138.25				hJ		90				PR						
BHUA-05	138.25				hJ		85				PR						
BHUA-05	138.38				hJ		30				PR						
BHUA-05	138.48				hJ		85				PR						
BHUA-05	138.49				hJ		20				PR						
BHUA-05	138.50				hJ		90				PR						
BHUA-05	138.52				hJ		70				PR						
BHUA-05	138.62				hJ		20				PR						
BHUA-05	138.66				hJ		20				PR						
BHUA-05	138.70				hJ		60				PR						
BHUA-05	138.71				V		90				UN			3			
BHUA-05	138.82				hJ		5				PR						
BHUA-05	139.00				hJ		90				PR						
BHUA-05	139.27				hJ		30				PR						
BHUA-05	139.29				V		90				PR			2			
BHUA-05	139.30				V		70				PR			2			
BHUA-05	139.47				J		10			CN	PR	RF					
BHUA-05	139.59				V		70				PR			2			
BHUA-05	139.63				V		50				PR			2			
BHUA-05	139.66				V		60				PR			4			
BHUA-05	139.87				hJ		10				PR						
BHUA-05	140.06				hJ		85				PR						
BHUA-05	140.10				J		85			CN	PR	RF					
BHUA-05	140.16				hJ		60				PR						
BHUA-05	140.16				hJ		60				PR						
BHUA-05	140.18				hJ		60				PR						
BHUA-05	140.26				hJ		60				PR						
BHUA-05	140.36				hJ		60				PR						
BHUA-05	140.38				hJ		60				PR						
BHUA-05	140.38				hJ		60				PR						
BHUA-05	140.63				hJ		60				PR						
BHUA-05	140.65				hJ		60				PR						
BHUA-05	140.78				hJ		60				PR						
BHUA-05	140.79				hJ		70				PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	140.88				V		70				PR			3			
BHUA-05	140.90				V		90				PR			1			
BHUA-05	141.09				hJ		60				PR						
BHUA-05	141.09				hJ		90				PR						
BHUA-05	141.14				hJ		60				PR						
BHUA-05	141.20				V		90				UN			2			
BHUA-05	141.32				V		60				PR			2			
BHUA-05	141.47				V		30				PR			2			
BHUA-05	141.50				V		40				PR			1			
BHUA-05	141.62				hJ		30				PR						
BHUA-05	141.63				J		20			CN	PR	RF					
BHUA-05	141.65				V		90				PR			2			
BHUA-05	141.72				hJ		60				PR						
BHUA-05	141.86				V		60				PR			2			
BHUA-05	142.10				V		90				UN			2			
BHUA-05	142.17				hJ		60				PR						
BHUA-05	142.22				hJ		60				PR						
BHUA-05	142.27				hJ		60				PR						
BHUA-05	142.30				V		85		highly altered		PR			2			
BHUA-05	142.52				V		85		highly altered		PR			3			
BHUA-05	142.54				J		5			CN	PR	RF					
BHUA-05	142.60				hJ		90				PR						
BHUA-05	142.90				V		90				UN			3			
BHUA-05	142.98				V		60				PR			1			
BHUA-05	143.16				V		70				PR			1			
BHUA-05	143.24				V		30				PR			1			
BHUA-05	143.30				V		70				PR			10			
BHUA-05	143.55				V		85				PR			10			
BHUA-05	143.57				hJ		90				UN						
BHUA-05	143.60				hJ		60				PR						
BHUA-05	143.63				J		5			CN	PR	RF					
BHUA-05	143.90				V		90				PR			4			
BHUA-05	144.30				hJ		80				PR						
BHUA-05	144.40				V		90				UN			4			
BHUA-05	144.56				hJ		20				PR						
BHUA-05	144.65				hJ		30				PR						
BHUA-05	144.95				hJ		5				PR						
BHUA-05	145.11				V		85				UN			4			
BHUA-05	145.25				V		90				UN			10			
BHUA-05	145.37				V		85				UN			3			
BHUA-05	145.45				hJ		90				PR						
BHUA-05	145.53				hJ		60				PR						
BHUA-05	145.54				hJ		90				PR						
BHUA-05	145.70				V		50				PR			3			
BHUA-05	145.72				hJ		45				PR						
BHUA-05	145.73				V		80				PR			2			
BHUA-05	145.92				V		90				PR			2			
BHUA-05	145.93				V		90				PR			1			
BHUA-05	145.96				hJ		45				PR						
BHUA-05	146.16				hJ		60				PR						
BHUA-05	146.23				hJ		70				PR						
BHUA-05	146.24				V		60				PR			1			
BHUA-05	146.56				V		45				PR			2			
BHUA-05	146.71				V		45				PR			40			
BHUA-05	146.83				V		45				PR			1			
BHUA-05	146.85				V		90				UN			10			
BHUA-05	146.88				hJ		45				PR						
BHUA-05	147.04				V		60				PR			2			
BHUA-05	147.06				V		70				PR			2			
BHUA-05	147.08				hJ		60				PR						
BHUA-05	147.15				hJ		90				PR						
BHUA-05	147.25				J		45							2			
BHUA-05	147.26				J		45							10			
BHUA-05	147.30				V		90				PR			2			
BHUA-05	147.43				V		30				PR			1			
BHUA-05	147.46				hJ		60				PR						
BHUA-05	147.46				V		90		altered halo		PR			30			
BHUA-05	147.48				hJ		60				PR						
BHUA-05	147.75				V		60				PR			1			
BHUA-05	148.09				hJ		45				PR						
BHUA-05	148.10				hJ		90				PR						
BHUA-05	148.15				hJ		60				PR						
BHUA-05	148.23				hJ		60		gn alteration		PR						
BHUA-05	148.23				hJ		70		gn alteration		PR						
BHUA-05	148.27				hJ		75		gn alteration		PR						
BHUA-05	148.36				hJ		80		gn alteration		PR						
BHUA-05	148.40				J		5			CN	PR	RF					
BHUA-05	148.40				V		50				PR			10			
BHUA-05	148.40				hJ		85		gn alteration		PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	148.42				hJ		90				PR						
BHUA-05	148.56				hJ		85				PR						
BHUA-05	148.65				hJ		60				PR						
BHUA-05	148.70				V		70				PR			1			
BHUA-05	148.75				J		10			CN	PR	RF					
BHUA-05	148.75				J		15			CN	PR	RF					
BHUA-05	148.85	149.04			AZ						IR						multiple defects, various angles, generally sub-vertical, pl gn-wh mi, <1mm width, 0-10mm spacing
BHUA-05	149.05	149.50			S		80	90	pl gn-wh mi		UN						1-2mm width, 1-3mm vertical displacement,
BHUA-05	149.20	149.75			S		80	90	pl gn-wh mi		UN						1-2mm width, 1-3mm vertical displacement,
BHUA-05	149.24				V		40				PR			2			
BHUA-05	149.28				V		40				PR			2			
BHUA-05	149.37				V		45				PR			2			
BHUA-05	149.40				V		60				CU			3			
BHUA-05	149.45	150.20			hJ		80	90	pl gn-wh mi		UN						1-5mm width
BHUA-05	149.46				V		45				PR			2			
BHUA-05	149.50				hJ		45				PR						
BHUA-05	149.57				V		45				PR			5			
BHUA-05	149.65				hJ		45				PR						
BHUA-05	149.74				V		45				PR			3			
BHUA-05	149.88				hJ		60				PR						
BHUA-05	149.95				CO		60		porphyritc basalt / granodiorite								
BHUA-05	149.98				hJ		70				PR						
BHUA-05	149.98				V		70				ST			2			
BHUA-05	150.14				V		50				PR			2			
BHUA-05	150.18				V		70				PR			2			
BHUA-05	150.20	150.90			hJ		80	90	pl gn-wh mi		UN						
BHUA-05	150.24				hJ		5				PR						
BHUA-05	150.28				hJ		40				PR						
BHUA-05	150.33				V		70				PR			2			
BHUA-05	150.39				hJ		30				PR						
BHUA-05	150.44				V		70				PR			1			
BHUA-05	150.56				J		30			CN	PR	RF					
BHUA-05	150.58				V		70				PR			1			
BHUA-05	150.66				hJ		60				PR						
BHUA-05	150.66				hJ		70				PR						
BHUA-05	150.70	150.90			hJ		80	90	pl gn-wh mi		UN						
BHUA-05	150.82				V		45				PR			10			
BHUA-05	150.92				J		20			CN	PR	RF					
BHUA-05	150.95				V		60		pale yl-br halo		PR			20			
BHUA-05	151.00				V		70				PR			1			
BHUA-05	151.03				V		70				PR			2			
BHUA-05	151.23				V		30				PR			2			
BHUA-05	151.27				V		45				PR			2			
BHUA-05	151.27				V		70				PR			10			
BHUA-05	151.44				V		70				PR			2			
BHUA-05	151.58				hJ		45				PR						
BHUA-05	151.65				hJ		45				PR						
BHUA-05	151.72				hJ		45				PR						
BHUA-05	151.74				hJ		45				PR						
BHUA-05	151.82				V		60				PR			4			
BHUA-05	152.02				V		60				PR			10			
BHUA-05	152.07				V		90				PR			4			
BHUA-05	152.10				V		20				PR			1			
BHUA-05	152.11				J		70			CN	PR	RF					
BHUA-05	152.13				hJ		30				PR						
BHUA-05	152.26				hJ		70				PR						
BHUA-05	152.28				hJ		20				PR						
BHUA-05	152.43				hJ		60				PR						
BHUA-05	152.47				V		20				PR			2			
BHUA-05	152.53				hJ		60				PR						
BHUA-05	152.59				V		60				PR			2			
BHUA-05	152.61				hJ		60				PR						
BHUA-05	152.68				hJ		90				PR						
BHUA-05	152.82				hJ		70				PR						
BHUA-05	152.84				V		90				PR			10			
BHUA-05	152.90				hJ		90				PR						
BHUA-05	153.06				hJ		85				PR						
BHUA-05	153.07				hJ		90				PR						
BHUA-05	153.28				V		60				PR			5			
BHUA-05	153.33				hJ		40				PR						
BHUA-05	153.34				V		60				PR			1			
BHUA-05	153.39				J		45			CT	PR	RF	<	1			
BHUA-05	153.39				CO		45		granodiorite / glassy basalt								
BHUA-05	153.47				hJ		70				PR						
BHUA-05	153.50				hJ		60				PR						
BHUA-05	153.51				hJ		70				PR						
BHUA-05	153.52				hJ		30				PR						
BHUA-05	153.52				hJ		70				PR						
BHUA-05	153.62				hJ		70				PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	153.68				hJ		70				PR						
BHUA-05	153.72				hJ		60				PR						
BHUA-05	153.80				hJ		70				PR						
BHUA-05	153.90				hJ		70				PR						
BHUA-05	153.91				V		30				PR			1			
BHUA-05	153.95				hJ		70				PR						
BHUA-05	154.12				J		20			CN	PR	RF					
BHUA-05	154.12				hJ		70				PR						
BHUA-05	154.13				hJ		30				PR						
BHUA-05	154.17				hJ		70				PR						
BHUA-05	154.18				V		85				PR			4			
BHUA-05	154.30				V		20				PR			1			
BHUA-05	154.30				V		30				PR			1			
BHUA-05	154.32				hJ		80			CN	PR	SM					
BHUA-05	154.45				V		85		wh mi Qtz	CN	PR	SM		2			
BHUA-05	154.53				V		70		wh mi Qtz	CN	PR	SM		1			
BHUA-05	154.54				hJ		5			CN	PR	SM					
BHUA-05	154.56				hJ		85		bk	CN	PR	SM					
BHUA-05	154.65				V		80		wh mi Qtz and yl	CN	ST	SM		3			
BHUA-05	154.68				hJ		10		bk	CN	PR	SM					
BHUA-05	154.80				hJ		60			CN	PR	SM					
BHUA-05	154.82				hJ		10			CN	PR	SM					
BHUA-05	154.88				hJ		60			CN	PR	SM					
BHUA-05	155.40				hJ		70			CN	PR	SM					
BHUA-05	155.40				hJ		80			CN	PR	SM					
BHUA-05	155.45				hJ		70			CN	PR	SM					
BHUA-05	155.52				hJ		5			CN	PR	SM					
BHUA-05	155.54				hJ		10			CN	PR	SM					
BHUA-05	155.60				hJ		5			CN	PR	SM					
BHUA-05	155.61				J		60				PR	RF					
BHUA-05	155.62				J		20				CU	RF					
BHUA-05	155.66				hJ		5			CN	PR	SM					
BHUA-05	155.71				J		70				PR	RF					
BHUA-05	155.75				J		5				PR	RF					
BHUA-05	155.77				hJ		85				PR						
BHUA-05	155.81				hJ		70		DB		PR			1			
BHUA-05	155.85				J		70			CN	PR	RF					
BHUA-05	155.86				hJ		90				PR						
BHUA-05	155.90				hJ		90				PR						
BHUA-05	155.95				V		90				PR			2			
BHUA-05	155.98				hJ		45				PR						
BHUA-05	156.11				hJ		70				PR						
BHUA-05	156.14				hJ		70				PR						
BHUA-05	156.21				hJ		70				PR						
BHUA-05	156.22				hJ		50				PR						
BHUA-05	156.27				hJ		20				PR						
BHUA-05	156.34				J		30			CN	PR	RF					
BHUA-05	156.50				hJ		20				PR						
BHUA-05	156.54				J		20			CN	PR	RF					
BHUA-05	156.55				hJ		7				PR						
BHUA-05	156.56				hJ		80				PR						
BHUA-05	156.61				J		85			CN	PR	RF					
BHUA-05	156.73				J		0			CN	PR	RF					
BHUA-05	156.81				hJ		60				PR						
BHUA-05	156.83				J		70			CN	PR	RF					
BHUA-05	157.07				hJ		70				PR						
BHUA-05	157.12				J		45			CN	PR	RF					
BHUA-05	157.13				hJ		90				PR						
BHUA-05	157.17				hJ		90				PR						
BHUA-05	157.18				J		45			CN	PR	RF					
BHUA-05	157.23				hJ		85				PR						
BHUA-05	157.28				V		60				PR			1			
BHUA-05	157.32				V		40				PR			1			
BHUA-05	157.32				J		20			CN	PR	RF					
BHUA-05	157.37				V		30				PR			1			
BHUA-05	157.43				V		5				PR			1			
BHUA-05	157.44				V		60				PR			1			
BHUA-05	157.45				J		45			CN	PR	RF					
BHUA-05	157.48				J		45			CN	PR	RF					
BHUA-05	157.53				J		30			CN	PR	RF					
BHUA-05	157.66				V		40				PR			1			
BHUA-05	157.78				V		70				PR			2			
BHUA-05	157.78				J		70			CN	PR	RF					
BHUA-05	157.81				V		70				PR			2			
BHUA-05	157.91				hJ		70				PR						
BHUA-05	158.01				hJ		90				PR						
BHUA-05	158.07				J		45			CN	PR	RF					
BHUA-05	158.13				hJ		20				PR						
BHUA-05	158.14				V		40				PR			3			

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	158.19				V		50				PR			3			
BHUA-05	158.25				V		60				PR			3			
BHUA-05	158.29				V		70				PR			3			
BHUA-05	158.53				V		80				PR			1			
BHUA-05	158.58				V		45				PR			1			
BHUA-05	158.64				hJ		60				PR						
BHUA-05	158.69				hJ		60				PR						
BHUA-05	158.91				hJ		45				PR						
BHUA-05	159.00				hJ		90				PR						
BHUA-05	159.14				hJ		90				CU						
BHUA-05	159.38				V		80				ST			2			
BHUA-05	159.57				hJ		70				PR						
BHUA-05	159.59				hJ		10				PR						
BHUA-05	159.76				J		70			CN	CU	RF					
BHUA-05	159.94				hJ		80				PR						
BHUA-05	159.95				hJ		5				PR						
BHUA-05	160.07				hJ		5				PR						
BHUA-05	160.08				V		90				PR			3			
BHUA-05	160.13				V		20				PR			20			
BHUA-05	160.17				hJ		70				PR						
BHUA-05	160.21				V		15				PR			2			
BHUA-05	160.25				V		30				PR			2			
BHUA-05	160.32				V		90				PR			2			
BHUA-05	160.33				hJ		30				PR						
BHUA-05	160.38				hJ		20				PR						
BHUA-05	160.40				hJ		10				PR						
BHUA-05	160.42				hJ		30				PR						
BHUA-05	160.54				V		30				PR			20			
BHUA-05	160.56				hJ		85				PR						
BHUA-05	160.71				V		45				PR			5			
BHUA-05	160.82				V		30				PR			2			
BHUA-05	160.96				hJ		40				PR						
BHUA-05	161.03				hJ		90				PR						
BHUA-05	161.10				hJ		10				PR						
BHUA-05	161.17				V		10				PR			10			
BHUA-05	161.21				hJ		20				PR						
BHUA-05	161.26				hJ		20				PR						
BHUA-05	161.34				hJ		70				PR						
BHUA-05	161.35				hJ		60				PR						
BHUA-05	161.40				hJ		5				PR						
BHUA-05	161.45				hJ		60				PR						
BHUA-05	161.49				V		70				PR			3			
BHUA-05	161.63				hJ		20				PR						
BHUA-05	161.77				hJ		70				PR						
BHUA-05	161.80				AZ		10										
BHUA-05	162.07				hJ		30				PR						
BHUA-05	162.15				V		30				UN			20			
BHUA-05	162.20				V		60				CU			2			
BHUA-05	162.23				V		90				CU			1			
BHUA-05	162.25				V		80				CU			5			
BHUA-05	162.38				V		80				PR			1			
BHUA-05	162.50				hJ		90				PR			1			
BHUA-05	162.66	162.71			AZ				pl gn-gy mi		IR						multiple defects, various angles, generally sub-horizontal, 1-5mm width, 0-10mm spacing
BHUA-05	162.83				V		70				PR			5			
BHUA-05	162.87				V		10				IR			10			
BHUA-05	162.88	163.50			V		80	90	pl gn-gy mi		PR			5			
BHUA-05	163.12				V		85				PR			2			
BHUA-05	163.17				V		85				PR			2			
BHUA-05	163.22				V		85				PR			4			
BHUA-05	163.27				hJ		85				PR						
BHUA-05	163.37				V		30				PR			4			
BHUA-05	163.42				hJ		10										
BHUA-05	163.52				hJ		10				PR						
BHUA-05	163.59				hJ		10				PR						
BHUA-05	163.64				hJ		10				PR						
BHUA-05	163.74				hJ		80				PR						
BHUA-05	163.78				V		5				PR			2			
BHUA-05	163.80				hJ		60				PR						
BHUA-05	163.91				V		10				PR			1			
BHUA-05	164.05				V		5				PR			1			
BHUA-05	164.06				V		80				PR			2			
BHUA-05	164.12				hJ		60				PR						
BHUA-05	164.20				hJ		5				PR						
BHUA-05	164.34				V		20				PR			2			
BHUA-05	164.38				J		45			CN	PR	RF					
BHUA-05	164.41				hJ		85				PR						
BHUA-05	164.43				J		5			CN	PR	RF					
BHUA-05	164.45				V		10				PR			10			
BHUA-05	164.50				hJ		85				PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	164.57				V		10				PR			2			
BHUA-05	164.64				V		30				PR			2			
BHUA-05	164.68				CO		30		contact porphyritic basalt/granodiorite								
BHUA-05	164.71				J		45			CN	PR	RF					
BHUA-05	164.80				J		45			CN	PR	RF					
BHUA-05	164.90				hJ		10				PR						
BHUA-05	164.93				hJ		10				PR						
BHUA-05	165.04				hJ		60				PR						
BHUA-05	165.10				hJ		20				PR						
BHUA-05	165.11				V		30				PR			1			
BHUA-05	165.30				hJ		5				PR						
BHUA-05	165.30				V		70				PR			1			
BHUA-05	165.39				hJ		45				PR			1			
BHUA-05	165.49				AZ		30										
BHUA-05	165.52				J		10			CN	PR	RF					
BHUA-05	165.58				hJ		10				PR						
BHUA-05	165.59				V		30				PR			1			
BHUA-05	165.80				hJ		90				PR						
BHUA-05	165.83				hJ		20				PR						
BHUA-05	166.04				V		90				UN			1			
BHUA-05	166.07				V		70				PR			3			
BHUA-05	166.13				V		45				PR			1			
BHUA-05	166.25				V		45				PR			4			
BHUA-05	166.30				V		45				PR			2			
BHUA-05	166.34				V		60		brecciated vein with angular clast of qz, cb, green roc		PR			10			
BHUA-05	166.51				J		10			CN	PR	RF					
BHUA-05	166.53				hJ		90				PR						
BHUA-05	166.64				hJ		45				PR						
BHUA-05	166.66				V		85				PR			1			
BHUA-05	166.80				V		60				PR			1			
BHUA-05	167.04				hJ		80				PR						
BHUA-05	167.08				hJ		90				PR						
BHUA-05	167.13				hJ		30				PR						
BHUA-05	167.21				V		30				PR			2			
BHUA-05	167.23				V		60				CU			10			
BHUA-05	167.25				V		35				PR			2			
BHUA-05	167.28				V		50				PR			1			
BHUA-05	167.66				hJ		10				PR						
BHUA-05	167.68				hJ		60				PR						
BHUA-05	167.71				hJ		5				PR						
BHUA-05	167.95				hJ		80				PR						
BHUA-05	168.10				J		5			CN	PR	RF					
BHUA-05	168.35				hJ		40				PR						
BHUA-05	168.55				hJ		90				PR						
BHUA-05	168.61				J		5			CN	PR	RF					
BHUA-05	168.68				hJ		90				PR						
BHUA-05	168.80				V		90				PR			3			
BHUA-05	169.39				V		60				PR			2			
BHUA-05	169.43				J		60			CN	PR	RF					
BHUA-05	169.58				V		60				PR			2			
BHUA-05	169.68				V		60				PR			2			
BHUA-05	169.76				hJ		50				PR			1			
BHUA-05	169.80				hJ		40				PR			1			
BHUA-05	170.02				hJ		90				PR						
BHUA-05	170.10				V		50				PR			20			
BHUA-05	170.48				V		60				PR			2			
BHUA-05	170.58				V		60				PR			2			
BHUA-05	170.70				hJ		85				PR						
BHUA-05	170.83				J		20			CN	PR	RF					
BHUA-05	171.00				hJ		70				PR						
BHUA-05	171.08				V		90				PR			1			
BHUA-05	171.16				V		90				PR			1			
BHUA-05	171.25				hJ		5				PR						
BHUA-05	171.34				V		45				PR			1			
BHUA-05	171.47				J		15			CN	PR	RF					
BHUA-05	171.72				J		5			CN	PR	RF					
BHUA-05	171.80				hJ		70				PR	SM					
BHUA-05	171.80				hJ		70				PR						
BHUA-05	172.08				hJ		50				PR	SM					
BHUA-05	172.08				hJ		50				PR						
BHUA-05	172.17				J		45				PR	RF					
BHUA-05	172.17				J		45			CN	PR	RF					
BHUA-05	172.30				V		70		yl gn		PR	SM		4			
BHUA-05	172.30				V		70				PR			4			
BHUA-05	172.32				hJ		90				PR	SM					
BHUA-05	172.32				hJ		90				PR						
BHUA-05	172.38				V		90		yl gn		PR	SM					
BHUA-05	172.38				V		90				PR			2			
BHUA-05	172.50				V		90		bk		PR	SM					

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	172.50				V		90				PR			2			
BHUA-05	172.78				V		60		bk		PR	SM					
BHUA-05	172.78				V		60				PR			1			
BHUA-05	172.80				V		60		yl gn		PR	SM					
BHUA-05	172.80				V		60				PR			3			
BHUA-05	173.08				V		20		yl gn		PR	SM					
BHUA-05	173.08				V		20				PR			10			
BHUA-05	173.15				V		10		yl gn		PR	SM		3			
BHUA-05	173.34				V		60		wh		PR	SM		2			
BHUA-05	173.35				V		90				PR			1			
BHUA-05	173.45				V		60				PR			1			
BHUA-05	174.06				hJ		60				PR						
BHUA-05	174.13				V		60				PR			2			
BHUA-05	174.18				hJ		60				PR						
BHUA-05	174.23				V		60				PR			1			
BHUA-05	174.30				V		70				PR			1			
BHUA-05	174.32				V		70				PR			1			
BHUA-05	174.43				hJ		85				PR						
BHUA-05	174.54				V		90				PR			1			
BHUA-05	174.55				hJ		60				PR						
BHUA-05	174.83				V		60				PR			5			
BHUA-05	174.88				V		85				UN			2			
BHUA-05	174.98				V		90				PR			1			
BHUA-05	175.00				CO		60		granodiorite / basalt								
BHUA-05	175.05				hJ		70				PR						
BHUA-05	175.22				V		60				PR			5			
BHUA-05	175.28				hJ		90				PR						
BHUA-05	175.29				hJ		60				PR						
BHUA-05	175.33				hJ		60				PR						
BHUA-05	175.34				hJ		90				PR						
BHUA-05	175.38				hJ		60				PR						
BHUA-05	175.63				hJ		40				PR						
BHUA-05	175.80				V		60				PR			10			
BHUA-05	175.87				J		60			CN	PR	RF					
BHUA-05	176.06				J		60			CN	PR	RF					
BHUA-05	176.06				hJ		90				PR						
BHUA-05	176.20				J		15			CN	PR	RF					
BHUA-05	176.22				hJ		90				PR						
BHUA-05	176.29				V		70				PR			1			
BHUA-05	176.30				hJ		85				PR						
BHUA-05	176.44				V		60				PR			1			
BHUA-05	176.46				hJ		85				PR						
BHUA-05	176.62				J		20			CN	PR	RF					
BHUA-05	176.67				hJ		70				PR						
BHUA-05	176.71				V		80				PR			2			
BHUA-05	176.75				hJ		90				PR						
BHUA-05	176.80				hJ		90				PR						
BHUA-05	177.03				J		15			CN	PR	RF					
BHUA-05	177.10				hJ		75				PR						
BHUA-05	177.22				hJ		30				PR						
BHUA-05	177.28				hJ		30				PR						
BHUA-05	177.32				J		10			CN	PR	RF					
BHUA-05	177.39				hJ		20				PR						
BHUA-05	177.45				V		5				PR			1			
BHUA-05	177.47				J		10			CN	PR	RF					
BHUA-05	177.50				V		90				PR			1			
BHUA-05	177.75				hJ		70				PR						
BHUA-05	177.78				J		45			CN	PR	RF					
BHUA-05	177.80				J		10			CN	PR	RF					
BHUA-05	178.05				hJ		60				PR						
BHUA-05	178.06				hJ		70				PR						
BHUA-05	178.15				V		90				PR			2			
BHUA-05	178.18				J		40			CN	PR	RF					
BHUA-05	178.28				hJ		70				PR						
BHUA-05	178.40				J		45			CN	PR	RF					
BHUA-05	178.82				J		30			CN	PR	RF					
BHUA-05	178.88				hJ		30				PR						
BHUA-05	178.95				hJ		30				PR						
BHUA-05	179.08				hJ		80				PR						
BHUA-05	179.44				hJ		30				PR						
BHUA-05	179.45				hJ		30				PR						
BHUA-05	179.58				hJ		90				PR						
BHUA-05	179.61				V		50				PR			2			
BHUA-05	179.65				CO		60		basalt / granodiorite								
BHUA-05	179.67				hJ		20				PR						
BHUA-05	179.85				V		60				PR			2			
BHUA-05	179.86				hJ		60				PR						
BHUA-05	179.93				J		20			CN	PR	RF					
BHUA-05	180.07				V		70				PR			4			

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	180.14				J		15			CN	PR	RF					
BHUA-05	180.14				hJ		90				PR						
BHUA-05	180.17				V		70				PR			20			
BHUA-05	180.20				hJ		85				PR						
BHUA-05	180.35				V		30				PR			2			
BHUA-05	180.37				V		60				PR			2			
BHUA-05	180.39				V		90				PR			2			
BHUA-05	180.44				J		30			CN	PR	RF					
BHUA-05	180.45				V		30				PR			2			
BHUA-05	180.49				V		85				PR			3			
BHUA-05	180.62				V		15				PR			4			
BHUA-05	180.63				hJ		80				PR						
BHUA-05	180.73				V		30				PR			3			
BHUA-05	180.93				V		10				PR			10			
BHUA-05	180.96				AZ		10										
BHUA-05	181.01				V		30				PR			2			
BHUA-05	181.04				V		30				PR			2			
BHUA-05	181.04				V		85				PR			2			
BHUA-05	181.10				V		20				PR			2			
BHUA-05	181.12				V		30				PR			2			
BHUA-05	181.21				V		30				PR			2			
BHUA-05	181.25				V		20				PR			2			
BHUA-05	181.41				V		30				PR			10			
BHUA-05	181.43				V		80				PR			2			
BHUA-05	181.45				hJ		85				PR						
BHUA-05	181.45				V		90				UN			1			
BHUA-05	181.50				CO		40		granodiorite / basalt								
BHUA-05	181.54				V		30				PR			1			
BHUA-05	181.64				hJ		85				PR						
BHUA-05	181.69				V		90				PR			2			
BHUA-05	181.70				V		80				PR			1			
BHUA-05	181.74				hJ		70				PR						
BHUA-05	181.82				hJ		45				PR						
BHUA-05	181.90				V		70				PR			1			
BHUA-05	181.90				hJ		70				PR						
BHUA-05	181.90				hJ		90				PR						
BHUA-05	181.90				hJ		70				PR						
BHUA-05	182.70				hJ		45				PR						
BHUA-05	182.75				hJ		45				PR						
BHUA-05	182.79				hJ		60				PR						
BHUA-05	183.05				V		90				PR			1			
BHUA-05	183.11				J		30			CN	PR	RF					
BHUA-05	183.14				J		30			CN	PR	RF					
BHUA-05	183.25				J		30			CN	PR	RF					
BHUA-05	183.25				V		90				PR			2			
BHUA-05	183.25				V		30				PR			3			
BHUA-05	183.29				J		5			CN	PR	RF					
BHUA-05	183.33				hJ		5				PR						
BHUA-05	183.34				J		30		broken	CN	PR	RF					
BHUA-05	183.38				J		5			CN	PR	RF					
BHUA-05	183.40				J		15			CN	PR	RF					
BHUA-05	183.45				hJ		50				PR						
BHUA-05	183.51				V		30		sheared, completely fractured		PR			2			
BHUA-05	183.59				J		10			CN	PR	RF					
BHUA-05	183.63				J		15			CN	PR	RF					
BHUA-05	183.66				J		30			CN	PR	RF					
BHUA-05	183.67				hJ		60				PR						
BHUA-05	183.77				J		30			CN	PR	RF					
BHUA-05	183.85				hJ		60				PR						
BHUA-05	183.95				hJ		90				PR						
BHUA-05	184.15				hJ		30				PR						
BHUA-05	184.20				hJ		70				PR						
BHUA-05	184.40				V		85				PR			2			
BHUA-05	184.50				V		80				CU			2			
BHUA-05	184.60				hJ		90				ST						
BHUA-05	184.96				hJ		60				PR						
BHUA-05	185.10				J		30			CN	PR	RF					
BHUA-05	185.11				hJ		60				PR						
BHUA-05	185.18				J		20			CN	PR	RF					
BHUA-05	185.18				V		60				UN			2			
BHUA-05	185.25				V		30				PR			1			
BHUA-05	185.30				V		60				PR			1			
BHUA-05	185.32				V		60				PR			1			
BHUA-05	185.35				AZ		80		fractured zone								
BHUA-05	185.42				J		30			CT	PR	RF					
BHUA-05	185.43				J		20			CN	PR	RF					
BHUA-05	185.43				hJ		60				PR						
BHUA-05	185.50				hJ		60				PR						
BHUA-05	185.55				V		90				PR			1			

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	185.63				V		90				PR			1			
BHUA-05	185.68				V		90				PR			1			
BHUA-05	185.87				J		20			CN	PR	RF					
BHUA-05	185.89				J		70			CN	PR	RF					
BHUA-05	185.90				J		5			CN	PR	RF					
BHUA-05	186.00	186.27			SZ		70		sheared zone, oxidised		IR			3			significant defect
BHUA-05	186.00				J		70			CN	PR	RF					
BHUA-05	186.15				J		5			CT	PR	RF					
BHUA-05	186.21				J		45			CT	PR	RF					
BHUA-05	186.25				V		70				PR			2			
BHUA-05	186.45				hJ		10				PR						
BHUA-05	186.50				J		60										
BHUA-05	186.50				V		80				UN			1			
BHUA-05	186.52				J		20			CN	PR	RF					
BHUA-05	186.68				V		80				PR			1			
BHUA-05	186.69				hJ		85				PR						
BHUA-05	186.70				J		20							10			
BHUA-05	186.75				J		10			CN	PR	RF					
BHUA-05	186.92				V		70				PR			1			
BHUA-05	186.94	187.52			V		90		pl gn-wh mi		PR			2			
BHUA-05	186.97				V		60				PR			1			
BHUA-05	187.00				hJ		85				CU						
BHUA-05	187.04				hJ		30				PR						
BHUA-05	187.07				hJ		30				PR						
BHUA-05	187.16				V		80				PR			2			
BHUA-05	187.20				V		30				PR			4			
BHUA-05	187.23				J		5			CN	PR	RF					
BHUA-05	187.30				V		5				PR			10			
BHUA-05	187.40				V		20				PR			10			
BHUA-05	187.45				V		60				PR			1			
BHUA-05	187.46				V		5				PR			10			
BHUA-05	187.48				hJ		85				PR						
BHUA-05	187.52				J		10			CN	PR	RF					
BHUA-05	187.67				V		30				PR			2			
BHUA-05	187.77				V		30				PR			2			
BHUA-05	187.80				hJ		80				UN						
BHUA-05	187.85				hJ		30				PR						
BHUA-05	187.90				V		90				CU			1			
BHUA-05	188.00				V		80				PR			10			
BHUA-05	188.00				V		80				PR			8			
BHUA-05	188.04				V		85				PR			1			
BHUA-05	188.05				V		5				PR			2			
BHUA-05	188.16				hJ		10				PR						
BHUA-05	188.17				V		85				PR			3			
BHUA-05	188.25				V		60				PR			1			
BHUA-05	188.40				CO		60										
BHUA-05	188.45				V		85				PR			1			
BHUA-05	188.46				V		85				PR			2			
BHUA-05	188.70				V		60				PR			2			
BHUA-05	188.76				V		80				ST			1			
BHUA-05	188.88				J		30			CN	PR	RF					
BHUA-05	188.90				V		80				ST			1			
BHUA-05	189.03				J		10			CN	PR	RF					
BHUA-05	189.16				hJ		80				PR						
BHUA-05	189.18				hJ		10				PR						
BHUA-05	189.23				J		10			CN	PR	RF					
BHUA-05	189.25				hJ		90				PR						
BHUA-05	189.34				J		10			CN	PR	RF					
BHUA-05	189.38				V		90				PR			2			
BHUA-05	189.40				J		10			CN	PR	RF					
BHUA-05	189.46				J		10			CN	PR	RF					
BHUA-05	189.63				J		10			CN	PR	RF					
BHUA-05	189.72				J		20			CN	PR	RF					
BHUA-05	189.80				J		20			CN	PR	RF					
BHUA-05	190.08				V		20				PR			1			
BHUA-05	190.34				V		20				PR			4			
BHUA-05	190.37				J		20			CN	PR	RF					
BHUA-05	190.52				V		20				PR			4			
BHUA-05	190.67				V		10				PR			1			
BHUA-05	190.78				J		20			CN	PR	RF					
BHUA-05	190.96				hJ		10				PR						
BHUA-05	191.02				hJ		10				PR						
BHUA-05	191.02	191.96			S		80	90	pl gn-wh mi		IR			8			0-30mm displacement, multiple defects bifurcating from major shear plane with varying amounts of displacemenet
BHUA-05	191.02	191.10			hJ		85		pl gn-wh mi		PR						
BHUA-05	191.06				hJ		10		pl gn-wh mi		PR						
BHUA-05	191.08	191.28			V		85		pl gn-wh mi		CU			4			
BHUA-05	191.28	191.35			V		85		pl gn-wh mi		PR			2			
BHUA-05	191.30				J		20			CN	PR	RF					
BHUA-05	191.31	191.40			J		70			CN	PR	RF					

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Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	191.32	191.65			AZ				pl gn-wh mi		IR						multiple defects, various angles, generally sub-horizontal, 0-10mm spacing
BHUA-05	191.34				hJ		10		pl gn-wh mi		PR						
BHUA-05	191.35	191.70			hJ		90		pl gn-wh mi		PR			1			
BHUA-05	191.37	191.45			V		80		pl gn-wh mi		PR			25			
BHUA-05	191.40				hJ		70				PR						
BHUA-05	191.43				V		60				PR			2			
BHUA-05	191.48				hJ		10		pl gn-wh mi		PR						
BHUA-05	191.53				hJ		40		pl gn-wh mi		PR						
BHUA-05	191.56				V		85		cb halo		PR			1			
BHUA-05	191.58				CO		10		basalt / granodiorite								
BHUA-05	191.64				J		15			CN	PR	RF					
BHUA-05	191.84				V		20				PR			1			
BHUA-05	191.93				V		60				PR			3			
BHUA-05	192.07				hJ		60				PR						
BHUA-05	192.10				hJ		5				PR						
BHUA-05	192.20				hJ		5				PR						
BHUA-05	192.22				hJ		5				PR						
BHUA-05	192.25				hJ		5				PR						
BHUA-05	192.30				V		90				CU			8			
BHUA-05	192.32				J		5			CN	PR	RF					
BHUA-05	192.43				J		5			CN	PR	RF					
BHUA-05	192.49				J		5			CN	PR	RF					
BHUA-05	192.54				V		90				CU			1			
BHUA-05	192.60				J		5			CN	PR	RF					
BHUA-05	192.63				V		90				CU			1			
BHUA-05	192.80				J		10			CN	PR	RF					
BHUA-05	192.90	193.12			hJ		60		wh mi	CT	PR			10			
BHUA-05	192.94	193.75			J	/hJ	70	90	wh mi		ST			5			
BHUA-05	193.10				J		5			CN	PR	RF					
BHUA-05	193.50				J		20			CN	PR	RF					
BHUA-05	193.50				hJ		90				PR						
BHUA-05	193.93				V		30				PR			2			
BHUA-05	194.05				hJ		10				PR						
BHUA-05	194.07				J		15			CN	PR	RF					
BHUA-05	194.23				hJ		20				PR						
BHUA-05	194.26				hJ		10				PR						
BHUA-05	194.26				hJ		60				PR						
BHUA-05	194.32				hJ		90				PR						
BHUA-05	194.36				V		5				PR			20			
BHUA-05	194.42				V		10				PR			2			
BHUA-05	194.60				J		15			CN	PR	RF					
BHUA-05	194.66				J		15			CN	PR	RF					
BHUA-05	194.67				V		90				UN			2			
BHUA-05	194.69				hJ		5				PR						
BHUA-05	194.81				V		30				PR			2			
BHUA-05	194.84				V		45				PR			1			
BHUA-05	195.07				hJ		60				PR						
BHUA-05	195.08				V		5				PR			20			
BHUA-05	195.12				hJ		60				PR						
BHUA-05	195.25				J		10			CN	PR	RF					
BHUA-05	195.26				V		5				PR			30			
BHUA-05	195.33				V		90		gn alteration halo		PR			20			
BHUA-05	195.38				V		30				PR			4			
BHUA-05	195.51				hJ		5				PR						
BHUA-05	195.54				V		30				PR			10			
BHUA-05	195.70				V		20				PR			4			
BHUA-05	195.76				hJ		60				PR						
BHUA-05	195.90				hJ		90				PR						
BHUA-05	195.90				hJ		60				PR						
BHUA-05	195.97				hJ		20				PR						
BHUA-05	196.00				V		90				PR			5			
BHUA-05	196.10				V		10				PR			10			
BHUA-05	196.11				hJ		60				PR						
BHUA-05	196.21				V		30				PR			1			
BHUA-05	196.25				hJ		70				PR						
BHUA-05	196.26				V		5				PR			1			
BHUA-05	196.30				V		50				PR			2			
BHUA-05	196.45	197.63			SZ		85	90			UN			10			estimated 50mm vertical displacement, some shearing and brecciated material along shear surface, healed, pl gn-wh m
BHUA-05	196.47				hJ		40				PR						
BHUA-05	196.48				J		5			CN	PR	RF					
BHUA-05	196.53				hJ		60				PR						
BHUA-05	196.56				V		10				PR			7			
BHUA-05	196.59				hJ		10				PR						
BHUA-05	196.63				V		20				PR			1			
BHUA-05	196.63				V		45				PR			1			
BHUA-05	196.67				V		10				PR			1			
BHUA-05	196.68				hJ		50				PR						
BHUA-05	196.70				V		20				PR			2			
BHUA-05	196.70				V		45				PR			2			

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	196.74				V		45				PR			2			
BHUA-05	196.77				V		45				PR			3			
BHUA-05	196.81				V		45				PR			4			
BHUA-05	196.84				V		90				UN			2			
BHUA-05	196.92	197.04			CZ		90				IR						brecciated/crushed area of sheared zone
BHUA-05	197.03				hJ		45				PR						
BHUA-05	197.05				V		45				PR			8			
BHUA-05	197.10				V		30				PR			2			
BHUA-05	197.12				V		20				PR			1			
BHUA-05	197.12				hJ		10				PR						
BHUA-05	197.17				hJ		20				PR						
BHUA-05	197.17				hJ		30				PR						
BHUA-05	197.18				hJ		40				PR						
BHUA-05	197.19				hJ		5				PR						
BHUA-05	197.22				V		10				PR			1			
BHUA-05	197.26				hJ		45				PR						
BHUA-05	197.33				V		45				PR			3			
BHUA-05	197.37				hJ		10				PR						
BHUA-05	197.40				CO		60		granodiorite / basalt								
BHUA-05	197.43				hJ		20				PR						
BHUA-05	197.44	197.49			J		60			CN	ST						
BHUA-05	197.45	198.63			J		60	90	wh mi	CT	ST						
BHUA-05	197.48				J		10			CN	PR	RF					
BHUA-05	197.59				V		20				PR			1			
BHUA-05	197.65				J		10			CN	PR	RF					
BHUA-05	197.70				hJ		80				PR						
BHUA-05	197.73	198.00			hJ		70				PR						
BHUA-05	197.75				hJ		60				PR						
BHUA-05	197.82				hJ		0				PR						
BHUA-05	197.82				hJ		5				PR						
BHUA-05	197.87				CO		45		basalt / granodiorite								
BHUA-05	197.92				V		20				PR			4			
BHUA-05	197.93				V		30				PR			4			
BHUA-05	197.97				V		20				PR			2			
BHUA-05	198.02				V		20				PR			2			
BHUA-05	198.10				V		30				PR			4			
BHUA-05	198.11				V		60				PR			3			
BHUA-05	198.22				V		20				PR			4			
BHUA-05	198.25				V		20				PR			10			
BHUA-05	198.25				V		60				PR			3			
BHUA-05	198.25				hJ		10				PR						
BHUA-05	198.29				V		90				CU			2			
BHUA-05	198.32				hJ		20				PR						
BHUA-05	198.37				J		15			CN	PR	RF					
BHUA-05	198.40				V		10				PR			2			
BHUA-05	198.41	200.13			V		85		breacciated with some cavities up to 8 mm		UN			10			healed becoming cpen over interval 199.52-199.64m
BHUA-05	198.44				V		10				PR			10			
BHUA-05	198.44				hJ		90				PR						
BHUA-05	198.50				V		60				PR			2			
BHUA-05	198.53				V		80				UN			1			
BHUA-05	198.55				V		20				PR			1			
BHUA-05	198.70				J		30			CN	PR	RF					
BHUA-05	198.78				hJ		20				PR						
BHUA-05	198.83				V		45				PR			10			
BHUA-05	198.89				hJ		20				PR						
BHUA-05	198.94				hJ		20				PR						
BHUA-05	198.98				hJ		10				PR						
BHUA-05	199.05				hJ		20				PR						
BHUA-05	199.07				hJ		10				PR						
BHUA-05	199.09				hJ		10				PR						
BHUA-05	199.10				hJ		70				PR						
BHUA-05	199.11				hJ		20				PR						
BHUA-05	199.15				hJ		40				PR						
BHUA-05	199.17				hJ		90				PR						
BHUA-05	199.19				J		5			CN	PR	RF					
BHUA-05	199.20				hJ		70				PR						
BHUA-05	199.22				J		5			CN	PR	RF					
BHUA-05	199.25				hJ		5				PR						
BHUA-05	199.25				hJ		45				PR						
BHUA-05	199.27				V		20				PR			1			
BHUA-05	199.28				hJ		10				PR						
BHUA-05	199.31				hJ		10				PR						
BHUA-05	199.45				V		40				PR			8			
BHUA-05	199.52				J		30			CT	PR	RF					
BHUA-05	199.52				J		90			CN	PR	RF					
BHUA-05	199.56				hJ		90				PR						
BHUA-05	199.65				J		30			CT	PR	RF					
BHUA-05	199.72				hJ		30				PR						
BHUA-05	199.77				V		80				PR			5			

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Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	199.85				hJ		70				PR						
BHUA-05	199.85				V		80				PR			3			
BHUA-05	199.92				hJ		60				PR						
BHUA-05	199.95				hJ		90				PR						
BHUA-05	199.96				hJ		90				PR						
BHUA-05	200.16				V		90				PR			2			
BHUA-05	200.23				hJ		70				PR						
BHUA-05	200.32				V		80				PR			2			
BHUA-05	200.35				V		90				PR			10			
BHUA-05	200.47				V		60				PR			1			
BHUA-05	200.56				CO		40		granodiorite / basalt								
BHUA-05	200.56				V		90				IR			2			
BHUA-05	200.61				V		75		brecciated		PR			10			
BHUA-05	200.66				hJ		70				PR						
BHUA-05	200.75				hJ		90				PR						
BHUA-05	200.78				hJ		90				PR						
BHUA-05	200.91				V		90				PR			2			
BHUA-05	200.93				V		90				IR			1			
BHUA-05	201.07				hJ		20				PR						
BHUA-05	201.14				J		60			CN	PR	RF					
BHUA-05	201.26				V		90				PR			5			
BHUA-05	201.50				V		70				PR			10			
BHUA-05	201.74				CO				andesite / granodiorite								
BHUA-05	201.74				V		90		brecciated mod to highly altered, silicified and pk		PR			20			
BHUA-05	201.80				hJ		5				PR						
BHUA-05	201.87				V		30				PR			3			
BHUA-05	201.90				hJ		90				CU						
BHUA-05	201.91				J		70			CT	PR	RF	<	1			
BHUA-05	201.95				hJ		90				PR						
BHUA-05	202.07				hJ		60				PR						
BHUA-05	202.08				hJ		30				PR						
BHUA-05	202.18				V		20				PR			1			
BHUA-05	202.26				V		20				PR			20			
BHUA-05	202.29				J		20			CN	PR	RF					
BHUA-05	202.32				hJ		50				PR			1			
BHUA-05	202.36				hJ		45				PR			1			
BHUA-05	202.37				hJ		30				PR						
BHUA-05	202.38				hJ		30				PR						
BHUA-05	202.42				hJ		5				PR						
BHUA-05	202.51				J		45			CN	PR	RF					
BHUA-05	202.52				J		90			CN	PR	RF					
BHUA-05	202.53				hJ		50				PR						
BHUA-05	202.56				V		60				PR			2			
BHUA-05	202.63				hJ		60				PR			1			
BHUA-05	202.66				hJ		5				PR						
BHUA-05	202.72				hJ		90				PR						
BHUA-05	202.75				hJ		60				PR			1			
BHUA-05	202.78				hJ		5				PR						
BHUA-05	202.79				hJ		90				PR						
BHUA-05	202.81				hJ		35				PR			1			
BHUA-05	202.83				hJ		30				PR			1			
BHUA-05	202.83				V		90				PR			1			
BHUA-05	202.87				hJ		5				PR						
BHUA-05	202.88				hJ		90				PR			1			
BHUA-05	203.00				V		5				PR			15			
BHUA-05	203.00				hJ		45				PR						
BHUA-05	203.01				V		70				PR			2			
BHUA-05	203.01				hJ		90				PR						
BHUA-05	203.19				hJ		85				PR						
BHUA-05	203.25				J		20			CN	PR	RF					
BHUA-05	203.25				hJ		90				PR						
BHUA-05	203.26				hJ		30				PR						
BHUA-05	203.36				hJ		70				PR						
BHUA-05	203.39				hJ		5				PR						
BHUA-05	203.40				hJ		90				PR						
BHUA-05	203.45				hJ		90				PR						
BHUA-05	203.56				hJ		60				PR						
BHUA-05	203.65				V		80				PR			2			
BHUA-05	203.66				J		60			CN	PR	RF					
BHUA-05	203.66				V		80				PR			2			
BHUA-05	203.84				J		45			CN	PR	RF					
BHUA-05	203.92				J		50			CN	PR	RF					
BHUA-05	203.95				J		5			CN	PR	RF					
BHUA-05	203.95				hJ		50				PR						
BHUA-05	204.00				hJ		80				PR						
BHUA-05	204.00				hJ		80				PR						
BHUA-05	204.04				hJ		70				PR						
BHUA-05	204.07				V		60				PR			1			
BHUA-05	204.11				hJ		90				PR						

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	204.11				hJ		70				PR						
BHUA-05	204.12				hJ		5				PR						
BHUA-05	204.14				hJ		20				PR						
BHUA-05	204.20				V		80				PR			5			
BHUA-05	204.34				hJ		80				PR						
BHUA-05	204.36				V		20				PR			2			
BHUA-05	204.41				V		20				PR			2			
BHUA-05	204.44				hJ		25				PR						
BHUA-05	204.49				hJ		40				PR						
BHUA-05	204.50				V		30				PR			1			
BHUA-05	204.53				J		30			CN	PR	RF					
BHUA-05	204.57				V		30				PR			1			
BHUA-05	204.73				hJ		70				PR						
BHUA-05	204.84				hJ		60		pk halo		PR						
BHUA-05	204.90				hJ		70		pk halo		PR						
BHUA-05	204.98				hJ		70				PR						
BHUA-05	204.99				hJ		20				PR						
BHUA-05	205.08				hJ		60		pk halo		PR						
BHUA-05	205.13				hJ		60				PR						
BHUA-05	205.14				hJ		60				PR						
BHUA-05	205.20				hJ		60				PR						
BHUA-05	205.40				J		60			CN	PR	RF					
BHUA-05	205.42				V		60				PR			15			
BHUA-05	205.43				J		60			CN	PR	RF					
BHUA-05	205.45				V		70				UN						
BHUA-05	205.47				hJ		80				PR						
BHUA-05	205.60				hJ		70				PR						
BHUA-05	205.62				hJ		70				PR						
BHUA-05	205.66				hJ		70				PR						
BHUA-05	205.98				hJ		60				PR						
BHUA-05	206.00				hJ		60				PR						
BHUA-05	206.06				hJ		60				PR						
BHUA-05	206.10				hJ		70				PR						
BHUA-05	206.30				J		70			CN	IR	RF					
BHUA-05	206.45				J		60			CN	PR	RF					
BHUA-05	206.46				CO		60		andesite / granodiorite								
BHUA-05	206.52				hJ		90				PR						
BHUA-05	206.62				V		60				PR			2			
BHUA-05	206.67				V		40				PR			8			
BHUA-05	206.72				hJ		5				PR						
BHUA-05	206.74				hJ		30				PR						
BHUA-05	206.76				hJ		85				PR						
BHUA-05	206.79				J		30			CN	PR	RF					
BHUA-05	206.86				hJ		20				PR						
BHUA-05	206.88				hJ		60				PR						
BHUA-05	206.89				hJ		85				PR						
BHUA-05	207.00				hJ		30				PR						
BHUA-05	207.15				hJ		20				PR						
BHUA-05	207.17				hJ		45				PR						
BHUA-05	207.21				hJ		20				PR						
BHUA-05	207.23				hJ		80				PR						
BHUA-05	207.24				hJ		20				PR						
BHUA-05	207.32				hJ		20				PR						
BHUA-05	207.33				hJ		60				PR						
BHUA-05	207.35				hJ		20				PR						
BHUA-05	207.38				hJ		60				PR						
BHUA-05	207.40				hJ		10				PR						
BHUA-05	207.43				hJ		10				PR						
BHUA-05	207.47				V		20				PR			1			
BHUA-05	207.51				J		5			CN	PR	RF					
BHUA-05	207.52				V		70				PR			1			
BHUA-05	207.56				V		70				PR			1			
BHUA-05	207.77				hJ		90				PR						
BHUA-05	208.09				V		30				PR			1			
BHUA-05	208.16				hJ		80				PR						
BHUA-05	208.20				hJ		60				PR						
BHUA-05	208.25				hJ		60				PR						
BHUA-05	208.30				hJ		80				PR						
BHUA-05	208.34				hJ		5				PR						
BHUA-05	208.55				hJ		90				PR						
BHUA-05	208.65				hJ		60				PR						
BHUA-05	208.75				hJ		5				PR						
BHUA-05	208.79				hJ		50				PR						
BHUA-05	208.82				hJ		5				PR						
BHUA-05	208.85				hJ		5				PR						
BHUA-05	209.04				hJ		30				PR						
BHUA-05	209.08				hJ		30				PR						
BHUA-05	209.15				hJ		30				PR						
BHUA-05	209.27				V		60		altered halo		PR			2			

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	209.30				J		20			CN	PR	RF					
BHUA-05	209.42				V		70		altered halo		PR			4			
BHUA-05	209.56				V		70		altered halo		PR			1			
BHUA-05	209.60				V		80		altered halo		PR			1			
BHUA-05	209.64				hJ		80				PR						
BHUA-05	209.74				V		70		altered halo		PR			3			
BHUA-05	209.84				J		60		altered halo								
BHUA-05	209.85				hJ		90				PR						
BHUA-05	209.86				V		60		altered halo		UN			2			
BHUA-05	209.96				J		20			CN	PR	RF					
BHUA-05	210.00				hJ		60				PR						
BHUA-05	210.09				hJ		80				PR						
BHUA-05	210.15				V		60		altered halo		PR			1			
BHUA-05	210.23				V		30		altered halo		PR			4			
BHUA-05	210.34				CO		30		granodiorite / glassy basalt								
BHUA-05	210.35				hJ		60				PR						
BHUA-05	210.36				hJ		60				PR						
BHUA-05	210.42				hJ		90				PR						
BHUA-05	210.43				hJ		5				PR						
BHUA-05	210.50				hJ		80				PR						
BHUA-05	210.51				hJ		5				PR						
BHUA-05	210.55				hJ		5				PR						
BHUA-05	210.58				hJ		5				PR						
BHUA-05	210.60				J		45			CN	PR	RF					
BHUA-05	210.62				V		60				PR			3			
BHUA-05	210.63				hJ		5				PR						
BHUA-05	210.68				hJ		10				PR						
BHUA-05	210.70				hJ		85				PR						
BHUA-05	210.71				hJ		10				PR						
BHUA-05	210.71				V		45				PR			2			
BHUA-05	210.73				hJ		30				PR						
BHUA-05	210.76				hJ		30				PR						
BHUA-05	210.80				hJ		30				PR						
BHUA-05	210.82				hJ		30				PR						
BHUA-05	210.90				hJ		5				PR						
BHUA-05	210.92				hJ		5				PR						
BHUA-05	210.93				CO		60		glassy basalt / granodiorite								
BHUA-05	210.95				hJ		5				PR						
BHUA-05	210.98				hJ		60				PR						
BHUA-05	210.99				hJ		60				PR						
BHUA-05	211.00				hJ		5				PR						
BHUA-05	211.08				hJ		40				PR						
BHUA-05	211.24				hJ		10				PR						
BHUA-05	211.30				hJ		50				PR						
BHUA-05	211.30				hJ		70				PR						
BHUA-05	211.33				hJ		60				PR						
BHUA-05	211.40				hJ		60				PR						
BHUA-05	211.42				hJ		60				PR						
BHUA-05	211.50				hJ		10				PR						
BHUA-05	211.60				hJ		30				PR						
BHUA-05	211.70				hJ		90				PR						
BHUA-05	211.72				hJ		30				PR						
BHUA-05	211.85				J		20			CN	PR	RF					
BHUA-05	211.94				hJ		70				PR						
BHUA-05	212.10				hJ		5				PR						
BHUA-05	212.18				hJ		60				PR						
BHUA-05	212.23				hJ		45				PR						
BHUA-05	212.25				hJ		50				PR						
BHUA-05	212.25				hJ		60				PR						
BHUA-05	212.25				hJ		65				PR						
BHUA-05	212.27				hJ		70				PR						
BHUA-05	212.44				hJ		5				PR						
BHUA-05	212.44				hJ		60				PR						
BHUA-05	212.50				hJ		10				PR						
BHUA-05	212.54				hJ		60				PR						
BHUA-05	212.62				hJ		5				PR						
BHUA-05	212.85				hJ		60				PR						
BHUA-05	212.86				hJ		60				PR						
BHUA-05	212.98				hJ		60				PR						
BHUA-05	213.00				hJ		60				PR						
BHUA-05	213.02				hJ		60				PR						
BHUA-05	213.10				hJ		10				PR						
BHUA-05	213.10				V		60				PR			20			
BHUA-05	213.26				V		5				PR			5			
BHUA-05	213.29				V		70				PR			3			
BHUA-05	213.33				hJ		20				PR						
BHUA-05	213.38				V		70				CU			1			
BHUA-05	213.44				hJ		70				PR						
BHUA-05	213.50				hJ		60				PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	213.50				hJ		85				PR						
BHUA-05	213.86				hJ		70				PR						
BHUA-05	213.97				hJ		20				PR						
BHUA-05	214.10				hJ		45				PR						
BHUA-05	214.11				hJ		70				PR						
BHUA-05	214.20				hJ		70				PR						
BHUA-05	214.21				hJ		10				PR						
BHUA-05	214.22				hJ		10				PR						
BHUA-05	214.27				hJ		30				PR						
BHUA-05	214.32				hJ		80				PR						
BHUA-05	214.35				J		30			CN	PR	RF					
BHUA-05	214.46				hJ		80				PR						
BHUA-05	214.48				hJ		30				PR						
BHUA-05	214.48				hJ		80				PR						
BHUA-05	214.50				hJ		30				PR						
BHUA-05	214.51				hJ		0				PR						
BHUA-05	214.59				hJ		45				PR						
BHUA-05	214.64				hJ		80				PR						
BHUA-05	214.67				hJ		70				PR						
BHUA-05	214.89				V		70				PR			2			
BHUA-05	215.06				hJ		70				PR						
BHUA-05	215.20				V		70				PR			1			
BHUA-05	215.30				hJ		50				PR						
BHUA-05	215.45				V		70				PR			1			
BHUA-05	215.80				V		80				PR			1			
BHUA-05	216.09				V		70				PR			1			
BHUA-05	216.33				hJ		70				PR						
BHUA-05	216.47				hJ		70				PR						
BHUA-05	216.53				hJ		70				PR						
BHUA-05	216.75				hJ		70				PR						
BHUA-05	216.80				hJ		40				PR						
BHUA-05	216.80				hJ		75				PR						
BHUA-05	217.10				V		70				PR			1			
BHUA-05	217.26				hJ		70				PR						
BHUA-05	217.31				hJ		60				PR						
BHUA-05	217.47				J		10			CN	PR	RF					
BHUA-05	217.64				hJ		10				PR						
BHUA-05	217.85				hJ		70				PR						
BHUA-05	217.86				hJ		20				PR						
BHUA-05	217.97				V		70				PR			2			
BHUA-05	218.00				hJ		30				PR						
BHUA-05	218.08				hJ		70				PR						
BHUA-05	218.09				hJ		45				PR						
BHUA-05	218.11				V		70				PR			2			
BHUA-05	218.37				hJ		30				PR						
BHUA-05	218.70				hJ		20				PR						
BHUA-05	218.73				hJ		10				PR						
BHUA-05	218.75				hJ		20				PR						
BHUA-05	218.78				hJ		10				PR						
BHUA-05	218.84				hJ		20				PR						
BHUA-05	218.97				J		20			CT	PR	RF					
BHUA-05	219.00				hJ		10				PR						
BHUA-05	219.07				hJ		10				PR						
BHUA-05	219.15				V		30				PR			4			
BHUA-05	219.24				J		20			CN	PR	RF					
BHUA-05	219.24				V		20				PR			1			
BHUA-05	219.26				V		20				PR			1			
BHUA-05	219.30				hJ		45				PR						
BHUA-05	219.42				hJ		10				PR						
BHUA-05	219.54				hJ		10				PR						
BHUA-05	219.68				hJ		10				PR						
BHUA-05	219.69				V		60		altered halo		PR			20			
BHUA-05	219.86				hJ		60				PR						
BHUA-05	219.90				hJ		60				PR						
BHUA-05	219.97				hJ						PR						
BHUA-05	220.08				hJ		60				PR						
BHUA-05	220.13				hJ		60				PR						
BHUA-05	220.16				hJ		60				PR						
BHUA-05	220.18				hJ		60				PR						
BHUA-05	220.22				J		20			CN	PR	RF					
BHUA-05	220.29				hJ		30				PR						
BHUA-05	220.32				hJ		30				PR						
BHUA-05	220.77				hJ		30				PR						
BHUA-05	220.80				hJ		30				PR						
BHUA-05	221.10				hJ		45				PR						
BHUA-05	221.27				J		30			CN	PR	RF					
BHUA-05	221.44				hJ		80				PR						
BHUA-05	221.45				hJ		10				PR						
BHUA-05	221.52				hJ		5				PR						

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Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	221.54				hJ		5				PR						
BHUA-05	221.60				hJ		50				PR						
BHUA-05	221.88				hJ		20				PR						
BHUA-05	222.35				J		20			CN	PR	RF					
BHUA-05	222.80				V		60				PR			5			
BHUA-05	222.90				hJ		5				PR						
BHUA-05	223.35				V		30				PR			1			
BHUA-05	223.46				hJ		50				PR						
BHUA-05	223.48				hJ		60				PR						
BHUA-05	223.70				hJ		50				PR						
BHUA-05	224.05				hJ		60				PR						
BHUA-05	224.43				hJ		60				PR						
BHUA-05	224.45				hJ		45				PR						
BHUA-05	224.77				hJ		45				PR						
BHUA-05	224.97				hJ		60				PR						
BHUA-05	225.01				hJ		60				PR						
BHUA-05	225.12				J		20			CN	PR	RF					
BHUA-05	225.18				hJ		60				PR						
BHUA-05	225.28				V		60				PR			2			
BHUA-05	225.57				hJ		60				PR						
BHUA-05	225.72				hJ		60				PR						
BHUA-05	225.90				V		60				PR			1			
BHUA-05	225.95				V		60				PR			1			
BHUA-05	226.12				hJ		70				PR						
BHUA-05	226.26				hJ		60				PR						
BHUA-05	226.30				hJ		5				PR						
BHUA-05	226.35				hJ		60				PR						
BHUA-05	226.55				V		90				PR			4			
BHUA-05	226.56				hJ		10				PR						
BHUA-05	226.60				hJ		70				PR						
BHUA-05	226.62				hJ		45				PR						
BHUA-05	226.68				hJ		10				PR						
BHUA-05	226.75				hJ		10				PR						
BHUA-05	226.80				hJ		10				PR						
BHUA-05	226.85				V		60				PR			1			
BHUA-05	226.85				hJ		70				PR						
BHUA-05	226.90				V		60				PR			1			
BHUA-05	227.07				hJ		20				PR						
BHUA-05	227.08				hJ		30				PR						
BHUA-05	227.11				hJ		45				PR						
BHUA-05	227.13				V		30				PR			2			
BHUA-05	227.13				hJ		70				PR						
BHUA-05	227.18				hJ		5				PR						
BHUA-05	227.24				hJ		5				PR						
BHUA-05	227.25				V		60				UN			1			
BHUA-05	227.31				hJ		60				PR						
BHUA-05	227.35				J		60			CN	PR	RF					
BHUA-05	227.41				hJ		70				PR						
BHUA-05	227.56				V		5				PR			2			
BHUA-05	227.58				hJ		60				PR						
BHUA-05	227.66				V		5				PR			2			
BHUA-05	227.69				hJ		5				PR						
BHUA-05	227.70				V		30				PR			3			
BHUA-05	227.77				hJ		10				PR						
BHUA-05	227.87				V		60				PR			2			
BHUA-05	228.00				J		70			CN	PR	RF					
BHUA-05	228.00				hJ		70				PR						
BHUA-05	228.22				hJ		5				PR						
BHUA-05	228.22				hJ		70				PR						
BHUA-05	228.37				hJ		5				PR						
BHUA-05	228.37				hJ		90				PR						
BHUA-05	228.38				hJ		70				PR						
BHUA-05	228.45				hJ		45				PR						
BHUA-05	228.52				J		30			CN	PR	RF					
BHUA-05	228.58				hJ		45				PR						
BHUA-05	228.80				hJ		90				PR						
BHUA-05	228.95				J		20			CN	PR	RF					
BHUA-05	229.01				hJ		20				PR						
BHUA-05	229.14				hJ		60				PR						
BHUA-05	229.16				J		20			CT	PR	RF	<	1			
BHUA-05	229.21				hJ		60				PR						
BHUA-05	229.22				hJ		65				PR						
BHUA-05	229.25				hJ		90				CU						
BHUA-05	229.40				V		70				PR			1			
BHUA-05	229.50				V		90				PR			1			
BHUA-05	229.55				V		45		br oxidised halo		PR			1			
BHUA-05	229.63				J		10			CN	PR	RF					
BHUA-05	229.70				hJ		30				PR						
BHUA-05	229.80				hJ		45				PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	229.90				hJ		20				PR						
BHUA-05	230.20				hJ		45				PR						
BHUA-05	230.25				hJ		20				PR						
BHUA-05	230.28				J		20			CN	PR	RF					
BHUA-05	230.45				hJ		10				PR						
BHUA-05	230.60				hJ		70				PR						
BHUA-05	230.77				V		10				PR			2			
BHUA-05	230.82				hJ		30				PR						
BHUA-05	230.87				J		5			CN	PR	RF					
BHUA-05	230.90				V		10				PR			2			
BHUA-05	230.99				hJ		5				PR						
BHUA-05	231.05				hJ		5				PR						
BHUA-05	231.16				hJ		20				PR						
BHUA-05	231.28				J		5			CN	PR	RF					
BHUA-05	231.32				hJ		20				PR						
BHUA-05	231.34				hJ		20				PR						
BHUA-05	231.34				hJ		40				PR						
BHUA-05	231.35				hJ		30				PR						
BHUA-05	231.43				hJ		30				PR						
BHUA-05	231.46				hJ		90				PR						
BHUA-05	231.54				hJ		60				PR						
BHUA-05	231.55				J		20			CN	PR	RF					
BHUA-05	231.96				hJ		30				PR						
BHUA-05	232.08				CO		30		granodiorite / dolerite					4			
BHUA-05	232.09				hJ		80				PR						
BHUA-05	232.10				V		80				PR			3			
BHUA-05	232.12				hJ		30				PR						
BHUA-05	232.16				V		75				PR			2			
BHUA-05	232.17				hJ		30				PR						
BHUA-05	232.18				V		70				PR			1			
BHUA-05	232.29				J		5			CN	PR	RF					
BHUA-05	232.30				V		85				PR			2			
BHUA-05	232.34				hJ		30				PR						
BHUA-05	232.36				hJ		85				PR						
BHUA-05	232.53				hJ		60				PR						
BHUA-05	232.64				hJ		60				PR						
BHUA-05	232.75				hJ		60				PR						
BHUA-05	232.80				hJ		70				PR						
BHUA-05	232.84				V		10				PR			4			
BHUA-05	232.85				hJ		70				PR						
BHUA-05	232.90				hJ		40				PR						
BHUA-05	232.92				hJ		70				PR						
BHUA-05	232.94				V		70				PR			3			
BHUA-05	233.06				hJ		10				PR						
BHUA-05	233.07				hJ		50				PR						
BHUA-05	233.13				hJ		30				PR						
BHUA-05	233.14				hJ		60				PR						
BHUA-05	233.17				hJ		5				PR						
BHUA-05	233.20				hJ		60				PR						
BHUA-05	233.33				hJ		5				PR						
BHUA-05	233.36				hJ		5				PR						
BHUA-05	233.40				hJ		5				PR						
BHUA-05	233.50				J		60			CT	PR	RF	<	1			
BHUA-05	233.54				hJ		60				PR						
BHUA-05	233.57				hJ		5				PR						
BHUA-05	233.62				hJ		10				PR						
BHUA-05	233.62				hJ		60				PR						
BHUA-05	233.66				hJ		30				PR						
BHUA-05	234.05				hJ		20				PR						
BHUA-05	234.09				hJ		80				PR						
BHUA-05	234.28				hJ		80				PR						
BHUA-05	234.31				hJ		60				PR						
BHUA-05	234.34				hJ		10				PR						
BHUA-05	234.42				J		5			CN	PR	RF					
BHUA-05	234.48				hJ		5				PR						
BHUA-05	234.56				J		5			CN	PR	RF					
BHUA-05	234.80				hJ		41				PR						
BHUA-05	234.83				hJ		45				PR						
BHUA-05	234.90				V		60				PR			1			
BHUA-05	234.92				hJ		20				PR						
BHUA-05	234.94				hJ		5				PR						
BHUA-05	234.98				V		60				PR			1			
BHUA-05	235.06				hJ		10				PR						
BHUA-05	235.12				hJ		80				PR						
BHUA-05	235.40				hJ		70				PR						
BHUA-05	235.57				hJ		70				PR						
BHUA-05	235.69				hJ		20				PR						
BHUA-05	235.75				J		5			CN	PR	RF					
BHUA-05	235.80				hJ		85				PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	235.90				hJ		90				PR						
BHUA-05	235.94				V		60				PR			2			
BHUA-05	235.98				hJ		30				PR						
BHUA-05	236.08				hJ		5				PR						
BHUA-05	236.20				hJ		70				PR						
BHUA-05	236.25				hJ		70				PR						
BHUA-05	236.27				hJ		5				PR						
BHUA-05	236.30				hJ		5				PR						
BHUA-05	236.38				hJ		80				PR						
BHUA-05	236.40				hJ		90				PR						
BHUA-05	236.41				hJ		5				PR						
BHUA-05	236.45				hJ		5				PR						
BHUA-05	236.49				hJ		5				PR						
BHUA-05	236.55				hJ		5				PR						
BHUA-05	236.55				hJ		5				PR						
BHUA-05	236.57				hJ		50				PR						
BHUA-05	236.58				hJ		5				PR						
BHUA-05	236.58				hJ		90				PR						
BHUA-05	236.60				hJ		5				PR						
BHUA-05	236.62				hJ		60				PR						
BHUA-05	236.63				hJ		45				PR						
BHUA-05	236.70				CO		30		glassy basalt / granodiorite								
BHUA-05	236.71				hJ		60				PR						
BHUA-05	237.00				hJ		70				PR						
BHUA-05	237.02				hJ		5				PR						
BHUA-05	237.05				hJ		5				PR						
BHUA-05	237.11				hJ		70				PR						
BHUA-05	237.23				hJ		5				PR						
BHUA-05	237.38				V		80		pk halo, some cavities		CU			4			
BHUA-05	237.46				hJ		30				PR						
BHUA-05	237.48				V		80		pk halo		PR			2			
BHUA-05	237.50				J		10			CN	PR	RF					
BHUA-05	237.66				V		80		pk halo		PR			3			
BHUA-05	237.71				hJ		90				PR						
BHUA-05	237.76				hJ		90				UN						
BHUA-05	238.00				CO		60		granodiorite / dolerite dyke, some 1 mm qz Vs					1			
BHUA-05	238.08				hJ		60				PR						
BHUA-05	238.13				hJ		85				PR						
BHUA-05	238.14				hJ		85				PR						
BHUA-05	238.19				hJ		5				PR						
BHUA-05	238.20				CO		70		dolerite dyke / granodiorite								
BHUA-05	238.23				hJ		5				PR						
BHUA-05	238.30				hJ		90				UN						
BHUA-05	238.32				hJ		70				PR						
BHUA-05	238.37				hJ		5				PR						
BHUA-05	238.41				hJ		90				PR						
BHUA-05	238.44				J		5			CN	PR	RF					
BHUA-05	238.49				hJ		5				PR						
BHUA-05	238.50				J		10			CN	PR	RF					
BHUA-05	238.65				J		5			CN	UN	RF					
BHUA-05	238.65				hJ		90				PR						
BHUA-05	238.75				hJ		60				PR						
BHUA-05	238.80				hJ		90				PR						
BHUA-05	238.90				hJ		70				PR						
BHUA-05	238.98				hJ		90				PR						
BHUA-05	239.05				J		5			CN	PR	RF					
BHUA-05	239.08				hJ		5				PR						
BHUA-05	239.22				hJ		60				PR						
BHUA-05	239.23				hJ		5				PR						
BHUA-05	239.26				V		85				PR			1			
BHUA-05	239.30				hJ		75				PR						
BHUA-05	239.35				hJ		70				PR						
BHUA-05	239.36				hJ		80				PR						
BHUA-05	239.40				hJ		90				UN						
BHUA-05	239.47				V		90		pk halo		PR			2			
BHUA-05	239.52				hJ		5				PR						
BHUA-05	239.61				hJ		60				PR						
BHUA-05	239.74				hJ		5				PR						
BHUA-05	239.74				hJ		90				PR						
BHUA-05	239.75				V		45		pk halo		PR			12			
BHUA-05	239.78				hJ		45				PR						
BHUA-05	239.97				V		40				PR			2			
BHUA-05	239.98				hJ		60				PR						
BHUA-05	240.03				hJ		10				PR						
BHUA-05	240.11				hJ		60				PR						
BHUA-05	240.14				J		20			CN	PR	RF					
BHUA-05	240.21				J		10			CN	PR	RF					
BHUA-05	240.25				hJ		30				PR						
BHUA-05	240.37				hJ		5				PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	240.40				hJ		5				PR						
BHUA-05	240.40				V		90		pk halo		PR			1			
BHUA-05	240.41				V		70				PR			2			
BHUA-05	240.62				J		5			CN	PR	RF					
BHUA-05	240.62				hJ		20				PR						
BHUA-05	240.63				J		45			CN	PR	RF					
BHUA-05	240.63				V		60				PR			1			
BHUA-05	240.68				hJ		60				PR						
BHUA-05	240.71				hJ		0				PR						
BHUA-05	240.75				V		90				UN			3			
BHUA-05	240.87				V		45				PR			1			
BHUA-05	240.91				V		60				PR			1			
BHUA-05	240.91				V		65				PR			1			
BHUA-05	240.96				V		60				PR			1			
BHUA-05	240.97				V		20				PR			1			
BHUA-05	241.00				hJ		90				PR						
BHUA-05	241.04				hJ		30				PR						
BHUA-05	241.05				hJ		85				PR						
BHUA-05	241.17				hJ		85				PR						
BHUA-05	241.22				J		20			CN	PR	RF					
BHUA-05	241.22				J		45			CN	PR	RF					
BHUA-05	241.33				hJ		90				IR						
BHUA-05	241.42				hJ		20				PR						
BHUA-05	241.46				J		20			CN	PR	RF					
BHUA-05	241.47				J		20			CN	PR	RF					
BHUA-05	241.48				J		20			CN	PR	RF					
BHUA-05	241.48				hJ		70				PR						
BHUA-05	241.53				J		20			CN	PR	RF					
BHUA-05	241.55				J		20			CN	PR	RF					
BHUA-05	241.56				J		30			CN	PR	RF					
BHUA-05	241.57	242.24			V	x3	90		multiple defects, Qtz		UN		<	5			
BHUA-05	241.62				V		90				PR			1			
BHUA-05	241.66				V		80				PR			1			
BHUA-05	241.70				J		20			CN	PR	RF					
BHUA-05	241.71	242.00			J		80	90	wh mi	CT	UN	RF					
BHUA-05	241.75				V		60				PR			1			
BHUA-05	241.80				J		20			CN	PR	RF					
BHUA-05	241.90				J		20			CN	PR	RF					
BHUA-05	242.00				CO		70		andesite / granodiorite								
BHUA-05	242.16				hJ		90				PR						
BHUA-05	242.40				J		10			CN	PR	RF					
BHUA-05	242.47				hJ		60				PR						
BHUA-05	242.55				V		60				PR			3			
BHUA-05	242.90				V		70				PR			1			
BHUA-05	243.23				hJ		60				PR						
BHUA-05	243.38				hJ		45				PR						
BHUA-05	243.70				hJ		90				PR						
BHUA-05	243.85				CO		45		granodiorite / dolerite								
BHUA-05	243.90				hJ		85				PR						
BHUA-05	244.00				hJ		60				PR						
BHUA-05	244.12				hJ		60				PR						
BHUA-05	244.16				hJ		30				PR						
BHUA-05	244.18				hJ		95				PR						
BHUA-05	244.54				hJ		85				PR						
BHUA-05	244.57				V		60				PR			1			
BHUA-05	244.64				hJ		45				PR						
BHUA-05	244.67				hJ		85				PR						
BHUA-05	244.77				J		45			CN	PR	RF					
BHUA-05	244.87				hJ		40				PR						
BHUA-05	245.00				hJ		45				PR						
BHUA-05	245.00				hJ		70				PR						
BHUA-05	245.18	246.90			V		90				UN			2			
BHUA-05	245.66				J		45			CN	PR	RF					
BHUA-05	245.86				hJ		60				PR						
BHUA-05	245.88				J		10			CN	PR	RF					
BHUA-05	245.91				hJ		90				PR						
BHUA-05	249.91				hJ		20				PR						
BHUA-05	249.93				hJ		20				PR						
BHUA-05	250.15				hJ		20				PR						
BHUA-05	250.19				J		20			CN	PR	SM					
BHUA-05	250.20				hJ		85				PR						
BHUA-05	250.42				hJ		70				PR						
BHUA-05	250.66				hJ		40				PR						
BHUA-05	250.73				hJ		40				PR						
BHUA-05	250.77				hJ		85				PR						
BHUA-05	250.80				J		20			CN	PR	RF					
BHUA-05	250.86				hJ		20				PR						
BHUA-05	250.93				hJ		20				PR						
BHUA-05	250.94				hJ		5				PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	251.00				J		20			CN	IR	RF					
BHUA-05	251.08				hJ		45				UN						
BHUA-05	251.16				hJ		10				PR						
BHUA-05	251.17				J		10			CN	PR	SM					
BHUA-05	251.19				V		10				PR			2			
BHUA-05	251.28				hJ		5				PR						
BHUA-05	251.36				hJ		5				PR						
BHUA-05	251.38				J		5			CN	PR	SM					
BHUA-05	251.43				hJ		10				PR						
BHUA-05	251.46				hJ		5				PR						
BHUA-05	251.48				hJ		5				PR						
BHUA-05	251.55				hJ		5				PR						
BHUA-05	251.58				hJ		10				PR						
BHUA-05	251.79				hJ		5				PR						
BHUA-05	251.84				hJ		5				PR						
BHUA-05	252.34				V		10				PR			3			
BHUA-05	252.40				V		20				PR			1			
BHUA-05	252.63				hJ		5				PR						
BHUA-05	252.69				V		60				PR			2			
BHUA-05	252.80				CO		80		granodiorite / dolerite dyke								
BHUA-05	252.92				hJ		30				PR						
BHUA-05	252.95				hJ		90				PR						
BHUA-05	253.13				hJ		90				CU						
BHUA-05	253.33				hJ		20				PR						
BHUA-05	253.45				CO		70		dolerite dyke / granodiorite								
BHUA-05	253.57				V		10		dolerite dyke					20			
BHUA-05	253.57				hJ		20				PR						
BHUA-05	253.59				J		10			CN	PR	SM					
BHUA-05	253.68				hJ		60				PR						
BHUA-05	253.74				hJ		5				PR						
BHUA-05	253.80				CO		20		granodiorite / basalt								
BHUA-05	253.87				hJ		60				PR						
BHUA-05	253.93				hJ		45				PR						
BHUA-05	253.96				hJ		10				PR						
BHUA-05	253.99				hJ		5				PR						
BHUA-05	254.04				hJ		30				PR						
BHUA-05	254.06				hJ		30				PR						
BHUA-05	254.09				CO		20		basalt / granodiorite								
BHUA-05	254.10				hJ		30				PR						
BHUA-05	254.13				hJ		30				PR						
BHUA-05	254.17				hJ		5				PR						
BHUA-05	254.22				hJ		10				PR						
BHUA-05	254.25				hJ		50				PR						
BHUA-05	254.31				hJ		80				PR						
BHUA-05	254.53				hJ		75				PR						
BHUA-05	254.54				hJ		20		yl halo		PR						
BHUA-05	254.55				hJ		20		yl halo		PR						
BHUA-05	254.62				J		10			CN	IR	RF					
BHUA-05	254.64				V		60		yl halo		PR			2			
BHUA-05	254.70				V		80		yl halo		PR			2			
BHUA-05	254.88				hJ		20				PR						
BHUA-05	255.13				J		10			CN	PR	SM					
BHUA-05	255.17				CO		20		granodiorite / dolerite dyke								
BHUA-05	255.20				CO		20		dolerite dyke / granodiorite								
BHUA-05	255.24				CO		20		dolerite dyke / granodiorite								
BHUA-05	255.52				hJ		70				PR						
BHUA-05	255.60				hJ		70				PR						
BHUA-05	255.61				hJ		60				PR						
BHUA-05	255.67				V		45				PR						
BHUA-05	255.71				V		40		yl halo		PR			2			
BHUA-05	255.76				hJ		30				PR						
BHUA-05	255.77				V		45				PR			10			
BHUA-05	255.77				CO		45		granodiorite / dolerite								
BHUA-05	255.83				J		30			CN	PR	SM					
BHUA-05	255.85				hJ		70				PR						
BHUA-05	255.90				J		45			CT	PR	SM					
BHUA-05	256.20				hJ		85				PR						
BHUA-05	256.36				hJ		10				PR						
BHUA-05	256.42				J		10			CN	PR	SM					
BHUA-05	256.43				hJ		60				PR						
BHUA-05	256.51				hJ		5				PR						
BHUA-05	256.55				V		60				PR			5			
BHUA-05	256.56				hJ		20				PR						
BHUA-05	256.68				hJ		20				PR						
BHUA-05	256.70				CO		70		dolerite / granodiorite								
BHUA-05	256.84				hJ		20				PR						
BHUA-05	256.90				hJ		30				PR						
BHUA-05	257.02				hJ		60				PR						
BHUA-05	257.14				hJ		5				PR						

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Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	257.18				hJ		5				PR						
BHUA-05	257.39				hJ		20				PR						
BHUA-05	257.45				hJ		20				PR						
BHUA-05	257.50				J		10			CN	IR	RF					
BHUA-05	257.55				V		50		yl alteration halo		PR			3			
BHUA-05	257.77				V		40		yl alteration halo		PR			3			
BHUA-05	257.83				V		60				PR			1			
BHUA-05	257.85				hJ		20				PR						
BHUA-05	257.86				V		10		yl alteration halo		PR			1			
BHUA-05	258.15				hJ		60				PR						
BHUA-05	258.18				hJ		20				PR						
BHUA-05	258.22				V		60		yl alteration halo		PR			2			
BHUA-05	258.23				hJ		20				PR						
BHUA-05	258.28				V		60		yl alteration halo		PR			2			
BHUA-05	258.39				hJ		60				PR						
BHUA-05	258.42				V		60		yl alteration halo		PR			2			
BHUA-05	258.68				V		70				PR			2			
BHUA-05	259.00				hJ		40				PR						
BHUA-05	259.44				hJ		5				PR						
BHUA-05	259.49				hJ		5				PR						
BHUA-05	259.57				hJ		40				PR						
BHUA-05	259.61				hJ		10				PR						
BHUA-05	259.65				hJ		5				PR						
BHUA-05	259.70				hJ		10				PR						
BHUA-05	259.77				J		20			CN	PR	SM					
BHUA-05	259.84				hJ		10				PR						
BHUA-05	259.86				hJ		10				PR						
BHUA-05	259.92				hJ		40				PR						
BHUA-05	259.93				hJ		60				PR						
BHUA-05	259.95				hJ		10				PR						
BHUA-05	260.21				V		45				PR			2			
BHUA-05	260.31				hJ		20				PR						
BHUA-05	260.41				hJ		50				PR						
BHUA-05	260.54				hJ		20				PR						
BHUA-05	260.58				V		20				PR			3			
BHUA-05	260.63				V		30				PR			15			
BHUA-05	261.27				MB												
BHUA-05	261.35				hJ		50				PR						
BHUA-05	261.48				MB												
BHUA-05	261.57				V		30				PR			15			
BHUA-05	261.63				MB												
BHUA-05	262.19				hJ		5				PR						
BHUA-05	262.40				CO	/V	5		granodiorite / andesite								
BHUA-05	262.41				J		10			CN	PR	SM					
BHUA-05	262.43				hJ		5				PR						
BHUA-05	262.52				hJ		40				PR						
BHUA-05	262.71				hJ		10				PR						
BHUA-05	263.05				hJ		10				PR						
BHUA-05	263.26				hJ		5				PR						
BHUA-05	263.49				V		45				PR			1			
BHUA-05	263.95				hJ		5				PR						
BHUA-05	263.98				hJ		70				PR						
BHUA-05	264.04				hJ		60				PR						
BHUA-05	264.18				V		70				PR			2			
BHUA-05	264.39				hJ		5				PR						
BHUA-05	264.44				hJ		5				PR						
BHUA-05	264.72				hJ		60				PR						
BHUA-05	264.80				V		70		yl		PR			15			
BHUA-05	264.95				hJ		60				PR						
BHUA-05	265.03				hJ		60				PR						
BHUA-05	265.05				hJ		70				PR						
BHUA-05	265.14				hJ		60				PR						
BHUA-05	265.15				hJ		60				PR						
BHUA-05	265.20				hJ		60				PR						
BHUA-05	265.30				hJ		5				PR						
BHUA-05	265.32				hJ		30				PR						
BHUA-05	265.33				hJ		60				PR						
BHUA-05	265.36				hJ		30				PR						
BHUA-05	265.40				hJ		35				PR						
BHUA-05	265.40				hJ		60				PR						
BHUA-05	265.44				hJ		60				PR						
BHUA-05	265.54				CO		30		andesite / granodiorite		PR	SM					
BHUA-05	265.55				hJ		60				PR						
BHUA-05	265.64				hJ		90				PR						
BHUA-05	265.67				J		20			CN	PR	SM					
BHUA-05	265.75				V		20				PR			2			
BHUA-05	265.93				hJ		60				PR						
BHUA-05	266.14				hJ		60				PR						
BHUA-05	266.25				hJ		60				PR						

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Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	266.34				hJ		60				PR						
BHUA-05	266.44				hJ		65				PR						
BHUA-05	266.54				hJ		70				PR						
BHUA-05	267.33				J		5			CN	PR	SM					
BHUA-05	267.35				V		70		altered halo					2			
BHUA-05	267.57				J		10			CN	PR	SM					
BHUA-05	268.00				MB		0										
BHUA-05	268.40				hJ		60				PR						
BHUA-05	268.50				hJ		50				UN						
BHUA-05	269.00				MB		0										
BHUA-05	269.36				hJ		40				IR						
BHUA-05	269.44				hJ		40				UN						
BHUA-05	269.48				hJ		40				UN						
BHUA-05	269.71				hJ		45				UN						
BHUA-05	270.00				MB		0										
BHUA-05	270.72				DB		0										
BHUA-05	271.38				hJ		30				PR						
BHUA-05	272.00				MB		0										
BHUA-05	272.88				J		30			CN	UN	SM					
BHUA-05	273.00				MB		0										
BHUA-05	273.69				DB		0										
BHUA-05	273.90				hJ		75				UN						
BHUA-05	274.00				MB		0										
BHUA-05	275.00				MB		0										
BHUA-05	275.91				J		30			CN	PR	SM					
BHUA-05	276.00				MB		0										
BHUA-05	276.18				CO		0				UN						
BHUA-05	276.60				DB		0										
BHUA-05	277.00				MB		0										
BHUA-05	277.48				CO		65				UN						
BHUA-05	277.65				hJ		75				UN						
BHUA-05	277.87				J		20			CN	PR	SM					
BHUA-05	278.00				MB		0										
BHUA-05	278.12				V		85				UN						
BHUA-05	278.20				V		85				UN						
BHUA-05	278.66				hJ		70				CU						
BHUA-05	278.78				V		0				IR						
BHUA-05	279.00				MB		0										
BHUA-05	279.39				J		30			CN	UN	RF					
BHUA-05	279.52				hJ		90				PR						
BHUA-05	279.55				hJ		75				UN						
BHUA-05	279.66				DB		0										
BHUA-05	279.95				MB		0										
BHUA-05	280.00				MB		0										
BHUA-05	280.08				J		20			CN	ST	SM					
BHUA-05	280.13				V		55			SN	IR						
BHUA-05	280.15				V		30				UN						
BHUA-05	280.21				V		85				UN						
BHUA-05	280.30				J		30			CN	PR	SM					
BHUA-05	280.35				hJ		60				PR						
BHUA-05	280.37				hJ		30				PR						
BHUA-05	280.65				V		85				IR						
BHUA-05	280.69				V		65				UN						
BHUA-05	280.73				J		30			CN	UN	SM					
BHUA-05	280.85				J		30			CN	PR	SM					
BHUA-05	280.88				hJ		30				PR						
BHUA-05	280.95				hJ		60				PR						
BHUA-05	281.00				MB		0										
BHUA-05	281.12				V		80				UN						
BHUA-05	281.23				hJ		80				CU						
BHUA-05	281.27				hJ		30				PR						
BHUA-05	281.40				hJ	x3	70				PR			50			
BHUA-05	281.80				hJ		75				PR						
BHUA-05	281.85				hJ		50				PR						
BHUA-05	282.00				MB		0										
BHUA-05	282.60				DB		0										
BHUA-05	282.63				V		65				UN						
BHUA-05	282.82				hJ		60				UN						
BHUA-05	282.90				J		60			CN	PR	SM					
BHUA-05	283.00				MB		0										
BHUA-05	283.20				V		70				IR						
BHUA-05	283.37				hJ		90				UN						
BHUA-05	283.80				hJ		80				UN						
BHUA-05	283.94				hJ		80				UN						
BHUA-05	284.00				MB		0										
BHUA-05	284.63				V		90				IR						
BHUA-05	284.83				V		80				UN						
BHUA-05	284.94				J		10			CN	PR	SM					
BHUA-05	285.00				MB		0										

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Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	285.12				V		90				UN						
BHUA-05	285.32				V		70				IR						
BHUA-05	285.40				V		80				UN						
BHUA-05	285.50				V		85				PR						
BHUA-05	285.53				V		50				UN						
BHUA-05	285.58				V		65				UN						
BHUA-05	285.65				hJ		70				UN						
BHUA-05	285.70				DB		0										
BHUA-05	286.04				hJ		0				PR						
BHUA-05	286.22				hJ		70				PR						
BHUA-05	286.27				J		10			CN	PR	RF					
BHUA-05	286.38				hJ		30				UN						
BHUA-05	286.38				hJ		30				IR						
BHUA-05	286.39				hJ		30				IR						
BHUA-05	286.40				hJ		15				PR						
BHUA-05	286.43				hJ		15				PR						
BHUA-05	286.57				HB		0										
BHUA-05	286.62				hJ		10				PR						
BHUA-05	286.64				hJ		10				PR						
BHUA-05	286.70				hJ		90				UN						
BHUA-05	286.73				hJ		10				PR						
BHUA-05	286.76				hJ		20										
BHUA-05	286.81				hJ		85				UN						
BHUA-05	286.87				J		30			CN	ST	RF					
BHUA-05	286.90				CO		20				UN						
BHUA-05	287.00				MB		0										
BHUA-05	287.11				V		10		wh mi Qtz		CU						
BHUA-05	288.00				MB		0										
BHUA-05	288.04				CO		40				IR						
BHUA-05	288.09				J		35			CN	ST	RF					
BHUA-05	288.12				CO		30				IR						
BHUA-05	288.15				hJ		60				UN						
BHUA-05	288.33				hJ		65				UN						
BHUA-05	288.40				V		85				UN						
BHUA-05	288.42				hJ		70				CU						
BHUA-05	288.52				J		30			CN	ST	RF					
BHUA-05	288.53				V		10				IR						
BHUA-05	288.56				V		30				UN						
BHUA-05	288.60				V		75				UN						
BHUA-05	288.60				hJ		90				CU						
BHUA-05	288.64				V		50				IR						
BHUA-05	288.64				J		20			CN	ST	RF					
BHUA-05	288.66				V		80				UN						
BHUA-05	288.74				J		25			CN	ST	RF					
BHUA-05	288.80				DB		0										
BHUA-05	288.85				V		85				UN						
BHUA-05	288.88				V		75				UN						
BHUA-05	288.90				V		75				IR						
BHUA-05	288.94				V		90				IR						
BHUA-05	288.95				V		90				IR						
BHUA-05	288.98				V		70				UN						
BHUA-05	289.00				MB		0										
BHUA-05	289.17				V		85		small off shoot veins along main vein between 75-85		IR						
BHUA-05	289.44				hJ		10				UN						
BHUA-05	289.48				hJ		80				UN	PO					
BHUA-05	289.56				hJ		80				UN						
BHUA-05	289.78				J		0			CN	PR	RF					
BHUA-05	290.00				MB		0										
BHUA-05	290.50				V		85				UN						
BHUA-05	291.00				MB		0										
BHUA-05	291.20				hJ		65				PR						
BHUA-05	291.34				CO		15				UN						
BHUA-05	291.41				V		30				CU						
BHUA-05	291.44				J		20			CN	IR	RF					
BHUA-05	291.70				DB		0										
BHUA-05	291.80				V		75		sligh alteration		IR						
BHUA-05	292.00				MB		0										
BHUA-05	292.32				J		20			CN	UN	RF					
BHUA-05	293.00				MB		0										
BHUA-05	293.74				J		20			CN	UN	RF					
BHUA-05	293.87				hJ		70				UN						
BHUA-05	294.00				MB		0										
BHUA-05	294.02				J		20			CN	UN	RF					
BHUA-05	294.07				hJ		25				UN						
BHUA-05	294.28				hJ		20				PR						
BHUA-05	294.30				hJ		15				PR						
BHUA-05	294.38				hJ		40				UN						
BHUA-05	294.56				J		20			CN	ST	RF					
BHUA-05	294.70				DB		0										

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Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	294.95				J		25			CN	PR	RF					
BHUA-05	295.00				MB		0										
BHUA-05	295.20				J		20			CN	PR	SM					
BHUA-05	295.37				hJ		40				IR						
BHUA-05	295.41				hJ		50				IR						
BHUA-05	295.56				hJ		75				CU						
BHUA-05	295.70				MB		0										
BHUA-05	296.00				MB		0										
BHUA-05	296.10				hJ		80				PR						
BHUA-05	296.47				J		30			SN	PR	SM					
BHUA-05	296.64				hJ		15			SN	UN						
BHUA-05	296.78				J		20			CN	ST	RF					
BHUA-05	296.90				hJ		80				UN						
BHUA-05	297.00				MB		0										
BHUA-05	297.05				V		0			SN	UN						
BHUA-05	297.50				V		65				UN						
BHUA-05	298.00				MB		0										
BHUA-05	298.40				hJ		10				PR						
BHUA-05	298.47				hJ		10				UN						
BHUA-05	298.72				J		30			CN	PR	SM					
BHUA-05	299.00				MB		0										
BHUA-05	299.42				hJ		0				UN						
BHUA-05	299.64				J		15			CN	UN	RF					
BHUA-05	300.00				MB		0										
BHUA-05	300.13				hJ		70				UN						
BHUA-05	300.45				hJ		70				UN						
BHUA-05	300.64				DB		0										
BHUA-05	300.91				hJ		20				UN						
BHUA-05	301.00				MB		0										
BHUA-05	301.04				hJ		10				IR						
BHUA-05	301.47				hJ		10				UN						
BHUA-05	301.48				hJ		0				UN						
BHUA-05	301.55				hJ		40				UN						
BHUA-05	301.63				V		0		slight alteration around vein		UN						
BHUA-05	301.67				V		70		slight alteration around vein		UN						
BHUA-05	301.71				hJ		75				UN						
BHUA-05	301.95				hJ		4				PR						
BHUA-05	302.00				MB		0										
BHUA-05	302.09				hJ		20				UN						
BHUA-05	302.31				hJ		25				PR						
BHUA-05	302.84				hJ		25				PR						
BHUA-05	303.00				MB		0										
BHUA-05	303.35				hJ		70			SN	UN						
BHUA-05	303.44				J		40			CN	ST	RF					
BHUA-05	303.46				hJ		25				UN						
BHUA-05	303.59				V		75				UN						
BHUA-05	303.77				J		30				ST						
BHUA-05	303.79				J		40				ST	RF					
BHUA-05	303.84				hJ		60				UN						
BHUA-05	303.87				hJ		65				UN						
BHUA-05	304.00				MB		0										
BHUA-05	304.19				V		75		alteration around vein with ,any small veins off shoot		UN						
BHUA-05	304.22				V		85		alteration around vein		UN						
BHUA-05	304.32				V		75		alteration around vein		UN						
BHUA-05	304.60				J		30			CN	ST	RF					
BHUA-05	304.72				V		30				PR						
BHUA-05	304.84				J		90			CN	UN						
BHUA-05	305.00				MB		0										
BHUA-05	305.10				V		70				UN						
BHUA-05	305.11				V		70				UN						
BHUA-05	305.13				V		35				UN						
BHUA-05	305.17				V		60				UN						
BHUA-05	305.20				V		70				UN						
BHUA-05	305.35				hJ		70				ST						
BHUA-05	305.47				V		50		many small veins dipping at 50 degrees with up to 3n		UN			3			
BHUA-05	305.50				V		50				IR						
BHUA-05	305.80				J		50			CN	ST	RF					
BHUA-05	306.00				MB		0										
BHUA-05	306.10				V		90				UN						
BHUA-05	306.15				V		80				UN						
BHUA-05	306.50				V		80				UN						
BHUA-05	306.60				J		60			VN	UN	RF					
BHUA-05	306.70				V		65				PR						
BHUA-05	306.80				J		20			CN	ST	RF					
BHUA-05	306.93				hJ		50				UN						
BHUA-05	306.95				hJ		80				IR						
BHUA-05	307.00				MB		0										
BHUA-05	307.00				V		0		numerous highly altered veins dipping between 90-4								
BHUA-05	307.54				J		40			SN	ST	RF					

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	307.92	308.38			J		90		sub vertical joint in moderately altered rock, joint dis	CN	UN	RF					
BHUA-05	308.00				MB		0										
BHUA-05	308.37				J		15			CN	ST	RF					
BHUA-05	308.48				J		70			SN	ST	RF					
BHUA-05	308.60	309.15			J		80		wh-gn mi	VN	UN	RF					
BHUA-05	308.75	308.90			J		85		subvertical joint	VN	PR	RF					
BHUA-05	308.95				J		0			CN	UN	RF					
BHUA-05	308.97				J		65			CT	CU	RF					
BHUA-05	308.98				J		70			VN	UN	RF					
BHUA-05	309.00				MB		0										
BHUA-05	309.05				J		90			VN	UN	RF					
BHUA-05	309.06				J		80			VN	UN	RF					
BHUA-05	309.25				J		50			CN	PR	RF					
BHUA-05	309.28				hJ		50				IR						
BHUA-05	309.37				hJ		45				PR						
BHUA-05	309.47				J		45			CT	PR	RF					
BHUA-05	309.61				J		40			SN	UN	RF					
BHUA-05	309.76				J		40			CN	PR	RF					
BHUA-05	309.97				J		60			CN	PR	RF					
BHUA-05	310.00				MB		0										
BHUA-05	310.10				hJ		80				UN						
BHUA-05	310.26				hJ		80				UN						
BHUA-05	310.39				J		20			CN	UN	RF					
BHUA-05	310.51				Js	x2	10			CN	PR	RF		120			
BHUA-05	310.80				J		30			CN	ST	RF					
BHUA-05	311.00				MB		0										
BHUA-05	311.20				J		55			CN	ST	RF					
BHUA-05	311.60				hJ		70				PR						
BHUA-05	311.79				V		45				UN						
BHUA-05	311.83				hJ		80				UN						
BHUA-05	311.90				J		65			CN	UN	RF					
BHUA-05	312.00				MB		0										
BHUA-05	312.29				hJ		40				UN						
BHUA-05	312.31				hJ		75				UN						
BHUA-05	312.34				hJ		65				UN						
BHUA-05	312.42				J		5			CN	UN	RF					
BHUA-05	312.46				J		65			CN	ST	RF					
BHUA-05	312.54				J		30			CN	UN						
BHUA-05	312.59				hJ		60				UN						
BHUA-05	312.67				DB		0										
BHUA-05	312.84				V		70				UN						
BHUA-05	312.97				hJ		30				UN						
BHUA-05	313.00				MB		0										
BHUA-05	313.06				MB		0										
BHUA-05	313.11				hJ		50				UN						
BHUA-05	313.15				hJ		70				PR						
BHUA-05	313.16				hJ		70				PR						
BHUA-05	313.22				J		45			CN	PR	RF					
BHUA-05	313.29				hJ		40				UN						
BHUA-05	313.35				hJ		30				UN						
BHUA-05	313.51				hJ		40				PR						
BHUA-05	313.64				hJ		35				PR						
BHUA-05	313.82				J		10			CN	ST	RF					
BHUA-05	313.85				hJ	x2	20				PR			50			
BHUA-05	313.95				hJ		40				PR						
BHUA-05	314.00				MB		0										
BHUA-05	314.02				hJ		70				PR						
BHUA-05	314.05				J		40			CN	ST	RF					
BHUA-05	314.16				hJ		60			CN	PR						
BHUA-05	314.22				hJ		45				PR						
BHUA-05	314.29				J		35			CN	UN	RF					
BHUA-05	314.39				Js	x7	30			CN	ST	RF		120			
BHUA-05	314.71				hJ		40				UN						
BHUA-05	314.73				hJ		55				UN						
BHUA-05	314.80				hJ		30				UN						
BHUA-05	314.81				hJ		50				PR						
BHUA-05	314.82				hJ		85				IR						
BHUA-05	314.92				hJ		70				UN						
BHUA-05	314.93				hJ		70				UN						
BHUA-05	315.00				MB		0										
BHUA-05	315.09				hJ		60				PR						
BHUA-05	315.15				J		40			CN	PR	SM					
BHUA-05	315.30				hJ		65				PR						
BHUA-05	315.35				J		5			CN	PR	SM					
BHUA-05	315.38				hJ		60				PR						
BHUA-05	315.56				J		0			CN	UN	RF					
BHUA-05	315.60				hJ	x20	65				UN						
BHUA-05	315.62				V		45										
BHUA-05	315.66				DB		0										

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	315.68				hJ		70				ST						
BHUA-05	315.71				hJ		10				ST						
BHUA-05	315.77				J		45			SN	ST	SM					
BHUA-05	315.88				J		80			SN	ST	RF					
BHUA-05	316.00				MB		0										
BHUA-05	316.06				hJ		70				UN						
BHUA-05	316.19				J		30			CN	UN	RF					
BHUA-05	316.27				hJ		60				UN						
BHUA-05	316.45				J		40			CN	ST	RF					
BHUA-05	316.75				V	x2	65				UN			20			
BHUA-05	316.83				hJ		50				UN						
BHUA-05	316.91				hJ		50				UN						
BHUA-05	316.95				hJ		50				UN						
BHUA-05	317.00				MB		0										
BHUA-05	317.09				hJ		75				ST						
BHUA-05	317.20				hJ		70				UN						
BHUA-05	317.33				hJ		50				UN						
BHUA-05	317.35				hJ		50				UN						
BHUA-05	317.36				hJ		80				ST						
BHUA-05	317.44				V		45				UN						
BHUA-05	317.52				hJ		40				UN						
BHUA-05	317.75				hJ	x3	55				UN			10			
BHUA-05	317.88				hJ		60				UN						
BHUA-05	318.00				MB		0										
BHUA-05	318.20				J		50			CN	UN	RF					
BHUA-05	318.34				J		40			CN	ST	RF					
BHUA-05	318.42				hJ		50				ST						
BHUA-05	318.50				J		45			CN	ST	RF					
BHUA-05	318.66				DB		0										
BHUA-05	318.75				hJ		60				PR						
BHUA-05	319.00				MB		0										
BHUA-05	319.03				HB		0										
BHUA-05	319.72				V		0				ST						
BHUA-05	319.77				J		60			CN	ST	RF					
BHUA-05	319.79				hJ		60				ST						
BHUA-05	319.80				hJ		40				ST						
BHUA-05	319.99				V		45				UN						
BHUA-05	320.00				MB		0										
BHUA-05	320.14				J		35			CN	ST	RF					
BHUA-05	320.22				CO		70										
BHUA-05	320.36				V		40				UN						
BHUA-05	320.43				J		75		infilled with basalt intrusion	SN	PR	RF					
BHUA-05	320.53				J		75			CN	ST	RF					
BHUA-05	320.57				J		40			SN	PR	RF					
BHUA-05	320.66				J		35			CN	ST	RF					
BHUA-05	320.67				J		50			VN	PR	RF					
BHUA-05	320.77				J		0			VN	PR	SM					
BHUA-05	320.82				V		60				UN						
BHUA-05	320.85				J		75			CN	ST	RF					
BHUA-05	320.89				hJ		40				UN						
BHUA-05	321.00				MB		0										
BHUA-05	321.05				MB		0										
BHUA-05	321.29				V		60				IR						
BHUA-05	321.33				J		65			CN	IR	RF					
BHUA-05	321.45				J		0			SN	PR	RF					
BHUA-05	321.72				hJ		65				UN						
BHUA-05	321.80				hJ		60				ST						
BHUA-05	321.85				hJ		70				UN						
BHUA-05	321.90				hJ		60				UN						
BHUA-05	322.03				V		40				UN						
BHUA-05	322.10				V		70				UN						
BHUA-05	322.19				hJ		65				ST						
BHUA-05	322.21				V		55				IR						
BHUA-05	322.25				hJ		55				ST						
BHUA-05	322.29				V		50				PR						
BHUA-05	322.55				hJ		65				UN						
BHUA-05	322.59				hJ		45				ST						
BHUA-05	322.63				hJ		55				UN						
BHUA-05	322.66				hJ		15				UN						
BHUA-05	322.68				J		30			CN	PR	RF					
BHUA-05	322.85				hJ		45				PR						
BHUA-05	322.87				hJ		85				ST						
BHUA-05	323.00				MB		0										
BHUA-05	323.03				J		50			CN	ST	RF					
BHUA-05	323.10				hJ		15				ST						
BHUA-05	323.11				hJ		70				ST						
BHUA-05	323.22				J		45			CN	ST	RF					
BHUA-05	323.27				hJ		60				UN						
BHUA-05	323.31				hJ		40				UN						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	323.47				hJ		90				UN						
BHUA-05	323.60				J		60			CN	PR	SM					
BHUA-05	323.71				J		50			CN	IR	RF					
BHUA-05	323.78				hJ		70				ST						
BHUA-05	323.84				hJ		20				ST						
BHUA-05	324.00				MB		0										
BHUA-05	324.04				hJ		10				UN						
BHUA-05	324.26				hJ		60				UN						
BHUA-05	324.26				hJ		75		pale br gy	VN	PR						
BHUA-05	324.35				hJ		90				ST						
BHUA-05	324.39				hJ		70				UN						
BHUA-05	324.42				J		5			CN	ST	RF					
BHUA-05	324.50				hJ		60				UN						
BHUA-05	324.52				hJ		10				PR						
BHUA-05	324.55				hJ		90				ST						
BHUA-05	324.58				J		10			CN	PR	RF					
BHUA-05	324.70				hJ		85				UN						
BHUA-05	324.72				DB		0										
BHUA-05	324.72	325.00			CS		0										
BHUA-05	325.00				MB		0										
BHUA-05	325.00	327.12			AZ				multiple healed defects, various angles, generally su								
BHUA-05	325.03				J		60			CT	PR	SM					
BHUA-05	325.12				V		65				ST						
BHUA-05	325.22				J		5			SN	ST	RF					
BHUA-05	325.34				hJ		5			SN	ST	RF					
BHUA-05	325.47				J		0			SN	ST	RF					
BHUA-05	325.57				J		10			SN	ST	RF					
BHUA-05	325.60				MB		0										
BHUA-05	325.78				J		20			CN	ST	RF					
BHUA-05	325.82				hJ		20				UN						
BHUA-05	325.91				hJ	x3	70				UN			10			
BHUA-05	326.00				J		30			SN	ST	RF					
BHUA-05	326.00	326.18			J		85			CN	UN	RF					
BHUA-05	326.00				DB		0		altered rock disturbed by drilling								
BHUA-05	326.10	326.18			J		40	60		CN	PR	SM					
BHUA-05	326.13				J		5			CN	UN	RF					
BHUA-05	326.56				J		45			CT	PR	RF					
BHUA-05	326.67				J		40			VN	PR	RF					
BHUA-05	326.73				J		50			VN	UN	RF					
BHUA-05	326.80				J		25			CN	ST	RF					
BHUA-05	326.89				hJ		80				UN						
BHUA-05	326.92				J		30			CN	ST	RF					
BHUA-05	327.00				MB		0										
BHUA-05	327.00				MB		0										
BHUA-05	327.00				MB		0										
BHUA-05	327.04				hJ		75				UN						
BHUA-05	327.15				hJ		60				UN						
BHUA-05	327.28				J		70			CT	PR	SL					
BHUA-05	327.44				hJ		70				UN						
BHUA-05	327.62				J		15			CN	ST	SM					
BHUA-05	327.67				hJ		70				UN						
BHUA-05	327.71				J		15			CN	ST	RF					
BHUA-05	327.73				hJ		0				UN						
BHUA-05	327.77				J		20			CN	UN	RF					
BHUA-05	327.81				hJ	x6	30				UN			40			
BHUA-05	327.87				hJ		80				UN						
BHUA-05	327.95				V		60				UN						
BHUA-05	327.98				J		55			SN	UN	SM					
BHUA-05	328.11				hJ		50				UN						
BHUA-05	328.20				hJ		80				UN						
BHUA-05	328.23				hJ		20				UN						
BHUA-05	328.25				hJ		50				ST						
BHUA-05	328.28				hJ		60				UN						
BHUA-05	328.34				hJ		15				UN						
BHUA-05	328.37				hJ		15				UN						
BHUA-05	328.40				J		30				ST						
BHUA-05	328.43				hJ		20				UN						
BHUA-05	328.45				hJ		60				UN						
BHUA-05	328.47				hJ		40				ST						
BHUA-05	328.50				J		10			CN	ST	RF					
BHUA-05	328.64				J		25			CN	ST	RF					
BHUA-05	328.66				hJ		80				UN						
BHUA-05	328.68				hJ		20				ST						
BHUA-05	328.76				J		15			CN	ST	RF					
BHUA-05	328.76				hJ		0				ST						
BHUA-05	328.76				hJ		0				ST						
BHUA-05	328.80				hJ	x2	30				UN			20			
BHUA-05	328.82				J		60			CN	ST	RF					
BHUA-05	328.83				Js	x2	40			SN	ST	RF		30			

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	328.93				hJ		30				UN						
BHUA-05	329.08				J		30			CN	PR	RF					
BHUA-05	329.14				J		5			CN	ST	RF					
BHUA-05	329.85	330.00			CS		0										
BHUA-05	330.00	333.30			SZ				highly altered and crushed host rock		IR	VR					generally 10-30mm spacing, up to 30-100mm, significant defect
BHUA-05	330.13				J		0			CN	ST	RF					
BHUA-05	330.32				J		40		fine to medium gravel		PR	VR					
BHUA-05	330.44				J		40			CN	ST	VR					
BHUA-05	330.60				J		30			CN	ST	VR					
BHUA-05	330.60	330.80			CZ		0										
BHUA-05	331.00	331.20			CS		0										
BHUA-05	331.23				J		0			CN	PR	RF					
BHUA-05	331.30				J		85			CT	PR	RF					
BHUA-05	331.34				J		35			CT	ST	RF					
BHUA-05	331.40	331.60			CZ		0										
BHUA-05	331.50				J		85			CT	ST	RF					
BHUA-05	331.85				J		70			CT	ST	SM					
BHUA-05	332.00				hJs		0		joints dipping between 90-40 degrees.								
BHUA-05	332.75	332.80			CS		0										
BHUA-05	333.10				J		75			CN	ST	RF					
BHUA-05	333.18				J		40			CN	UN	RF					
BHUA-05	333.33				J		70			CN	UN	RF					
BHUA-05	333.50				J		75			CN	CU	RF					
BHUA-05	333.74				J		70			CN	UN	RF					
BHUA-05	333.90				J		60			CN	ST	RF					
BHUA-05	334.00	334.35			CS		0										
BHUA-05	334.00	334.40			SZ				moderately altered and crushed host rock		IR	VR					generally 10-30mm spacing, significant defect
BHUA-05	334.10				J		70		gravel and clay with up to 5mm aperture	CT	UN	RF		5			
BHUA-05	334.20				J		75			CN	ST	SM					
BHUA-05	334.50	334.60			SS		60										
BHUA-05	334.74				DB		0										
BHUA-05	334.83				J		65			CN	ST	RF					
BHUA-05	335.00				MB		0										
BHUA-05	335.36				V		55				UN						
BHUA-05	335.65				J		55			CN	ST	RF					
BHUA-05	335.93				V		70				UN						
BHUA-05	336.20				hJ		75				UN						
BHUA-05	336.36				hJ		30				PR						
BHUA-05	336.39				hJ		5				UN						
BHUA-05	336.45				hJ	x4	60				PR			100			
BHUA-05	336.62				J		60			VN	CU	RF					
BHUA-05	336.73				V		0				UN						
BHUA-05	336.76				DB		0										
BHUA-05	336.80				V		55				UN						
BHUA-05	336.87				hJ		50				UN						
BHUA-05	336.91				hJ		50				PR						
BHUA-05	337.00				MB		0										
BHUA-05	337.05				V		50				PR						
BHUA-05	337.18				J		50			CN	ST	RF					
BHUA-05	337.29				V		60				IR						
BHUA-05	337.41				J		55			CN	PR	RF					
BHUA-05	337.50				hJ		60				UN						
BHUA-05	337.79				hJ		40				UN						
BHUA-05	338.00				MB		0										
BHUA-05	338.03				V		60				UN						
BHUA-05	338.40				hJ		55				PR						
BHUA-05	338.44				hJ		60				UN						
BHUA-05	338.74				V		0				IR						
BHUA-05	338.77				V		10				IR						
BHUA-05	338.96				hJ	x2	20				PR						
BHUA-05	339.00				MB		0										
BHUA-05	339.15				V		60		large vein up to 80mm thick		IR			80			
BHUA-05	339.24				V		60				UN						
BHUA-05	339.33				hJ		50				UN						
BHUA-05	339.52				hJ		70				UN						
BHUA-05	339.65				V		50				IR						
BHUA-05	339.75				V		50				IR						
BHUA-05	339.90				hJ		20				UN						
BHUA-05	340.00				MB		0										
BHUA-05	340.05				V		25				UN						
BHUA-05	340.20				V		40				UN						
BHUA-05	340.23				hJ		65				ST						
BHUA-05	340.24				hJ		25				UN						
BHUA-05	340.33				J		15			CN	ST	RF					
BHUA-05	340.57				hJ		45				UN						
BHUA-05	340.68				V		45				UN						
BHUA-05	340.73				V		50				CU						
BHUA-05	340.80				V		50				UN						
BHUA-05	341.00				MB		0										

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	341.03				V		20				CU						
BHUA-05	341.45				hJ		85				UN						
BHUA-05	341.72				V		45				UN						
BHUA-05	341.89				V		20				UN						
BHUA-05	341.94				V		50				UN						
BHUA-05	342.00				MB		0										
BHUA-05	342.04				hJ		50				UN						
BHUA-05	342.07				hJ		60				UN						
BHUA-05	342.12				J		0			CN	ST	RF					
BHUA-05	342.32				V		40				IR						
BHUA-05	342.34				J		15			VN	UN	SM					
BHUA-05	342.45				V		55				UN						
BHUA-05	342.46				V		25				UN						
BHUA-05	342.56				hJ		30				PR						
BHUA-05	342.68				hJ		30				UN						
BHUA-05	342.70				hJ		10				PR						
BHUA-05	342.75				DB		0										
BHUA-05	342.90				V		55				UN						
BHUA-05	343.00				MB		0										
BHUA-05	343.18				V		50				IR						
BHUA-05	343.29				J		80			SN	ST	SM					
BHUA-05	343.46				V	x8	45				UN			30			
BHUA-05	343.79				hJ		30										
BHUA-05	343.88				J		10			CN	ST	RF					
BHUA-05	343.96				hJ		40				PR						
BHUA-05	344.00				MB		0										
BHUA-05	344.05				V		60				UN						
BHUA-05	344.28				hJ		60				UN						
BHUA-05	344.61				V		0				IR						
BHUA-05	345.00				MB		0										
BHUA-05	345.08				V	x2	40				UN			100			
BHUA-05	345.27				V		25				PR						
BHUA-05	345.42				V		30				UN						
BHUA-05	345.46				hJ		30				PR						
BHUA-05	345.72				DB		0										
BHUA-05	345.81				V		50				UN						
BHUA-05	345.90				V		50				UN						
BHUA-05	345.96				V		50				IR						
BHUA-05	346.00				MB		0										
BHUA-05	346.00				J		0										
BHUA-05	346.06				V		60				IR						
BHUA-05	346.16				V		50				IR						
BHUA-05	346.24				V		0				IR						
BHUA-05	346.31				V		40				IR						
BHUA-05	346.40				V		40				UN						
BHUA-05	346.47				V		60				UN						
BHUA-05	346.63				V		80				UN						
BHUA-05	346.65				J		60			CN	ST	RF					
BHUA-05	346.83				hJ		40				UN						
BHUA-05	347.00				MB		0										
BHUA-05	347.08				V		40				UN						
BHUA-05	347.13				J		70			CN	ST	RF					
BHUA-05	347.38				hJ		40				UN						
BHUA-05	347.40				V		40				UN						
BHUA-05	347.86				V		60				IR						
BHUA-05	348.00				MB		0										
BHUA-05	348.06				hJ		90				PR						
BHUA-05	348.27				hJ		60				UN						
BHUA-05	348.50				J		20			CN	ST	RF					
BHUA-05	348.64				hJ		30				UN						
BHUA-05	348.66				J		30			CN	ST	RF					
BHUA-05	348.80				DB		0										
BHUA-05	348.90				V		40				UN						
BHUA-05	348.95				V		60				UN						
BHUA-05	349.00				MB		0										
BHUA-05	349.00				J		55			VN	UN	SL					
BHUA-05	349.00				J		55			VN	UN	SL					
BHUA-05	349.02				V		70				ST						
BHUA-05	349.05				V		40				UN						
BHUA-05	349.40				V		60				UN						
BHUA-05	349.45				J		10			CN	ST	RF					
BHUA-05	349.54				J		80			CN	ST	RF					
BHUA-05	349.55				J		80			CN	ST	RF					
BHUA-05	349.70				V		20				IR						
BHUA-05	349.79				V		50				IR						
BHUA-05	349.79				V		50				UN						
BHUA-05	349.79				V		50				UN						
BHUA-05	349.85				V		30				UN						
BHUA-05	349.93				V		60				UN						

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	349.94				J		10			SN	ST	RF					
BHUA-05	350.00				MB		0										
BHUA-05	350.13				J		50			CN	CU	SM					
BHUA-05	350.29				J		55			CN	ST	SM					
BHUA-05	350.38				J		40			CN	PR	SM					
BHUA-05	350.50				J		70			CN	ST	RF					
BHUA-05	350.56				V		50				ST	RF					
BHUA-05	350.65				J		75				UN						
BHUA-05	350.75				J		65			VN	ST	RF					
BHUA-05	350.77				V		30				UN						
BHUA-05	350.94				J		70			CT	UN			20			
BHUA-05	351.00				MB		0										
BHUA-05	351.05				V		70				PR						
BHUA-05	351.07				J		45			CT	PR	SM					
BHUA-05	351.13				J		45			VN	UN	SL					
BHUA-05	351.20				V	x2	65				UN			30			
BHUA-05	351.29				J		60			CN	ST	RF					
BHUA-05	351.35				J		65			CN	ST	RF					
BHUA-05	351.53				V		60				UN						
BHUA-05	351.62				V		60				UN						
BHUA-05	351.65				J		80			CN	UN	SL					
BHUA-05	351.68				J		80			CN	ST	RF					
BHUA-05	351.80				DB		0										
BHUA-05	351.87				J		80			VN	UN	RF					
BHUA-05	351.93				J		30			CN	ST	RF					
BHUA-05	352.00				MB		0										
BHUA-05	352.11				J		50			VN	ST	RF					
BHUA-05	352.25				V		70				IR						
BHUA-05	352.34				V		50				IR						
BHUA-05	352.42				V		0				UN						
BHUA-05	352.58				J		20			CN	IR	RF					
BHUA-05	352.62				V		60				UN						
BHUA-05	352.65				V		50		wh mi Qtz vein		UN						
BHUA-05	352.75				J		70			CN	IR	RF					
BHUA-05	352.85				V		85				UN						
BHUA-05	353.00				MB		0										
BHUA-05	353.17				hJ		75				PR						
BHUA-05	353.38				hJ		60				CU						
BHUA-05	353.45				hJ		40										
BHUA-05	353.48				hJ		50				UN						
BHUA-05	353.65				J		30			CN	UN	RF					
BHUA-05	353.73				J		80			CN	ST	SM					
BHUA-05	353.80				J		50			VN	UN	SM					
BHUA-05	353.94				V		70				UN						
BHUA-05	353.94				V		50				UN						
BHUA-05	353.94				V		50				UN						
BHUA-05	354.00				MB		0										
BHUA-05	354.17				V		50				CU						
BHUA-05	354.29				J		35			CN	IR	RF					
BHUA-05	354.70				V		0				UN						
BHUA-05	354.80				DB		0										
BHUA-05	354.86				V		30				IR						
BHUA-05	354.90				hJ		70				PR						
BHUA-05	354.98				hJ		50				UN						
BHUA-05	355.00				MB												
BHUA-05	355.05				J		70			SN	UN	RF					
BHUA-05	355.11				J		70			SN	UN	RF					
BHUA-05	355.15				hJ		75				UN						
BHUA-05	355.21				hJs	x4	50				PR			300			
BHUA-05	355.26				hJs	x4	40				PR			260			
BHUA-05	355.31				hJ		60				CU						
BHUA-05	355.37				hJ		70				PR						
BHUA-05	355.40				hJs	x6	30				UN			250			
BHUA-05	355.43				J		30			CN	ST	RF					
BHUA-05	355.54				hJs	x4	50				UN			210			
BHUA-05	355.94				V		80				UN						
BHUA-05	356.00				MB												
BHUA-05	356.03				J		30			CN	ST	RF					
BHUA-05	356.08				V	x4	70				UN			300			
BHUA-05	356.10				V		60				UN						
BHUA-05	356.12				hJ		80				UN						
BHUA-05	356.35				J		30			CN	UN	RF					
BHUA-05	356.55				hJ		60				UN						
BHUA-05	356.65				hJs	x6	70				UN			100			
BHUA-05	356.76				hJ		90				UN						
BHUA-05	356.89				hJ		50				UN						
BHUA-05	356.93				V	x2	60				UN			800			
BHUA-05	357.00				MB												
BHUA-05	357.10				V	x7	60				UN			50			

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	357.32				hJ		10										
BHUA-05	357.37				hJ		80				UN						
BHUA-05	357.39				V		40				UN						
BHUA-05	357.42				V		50				UN						
BHUA-05	357.45				V		40				UN						
BHUA-05	357.51				V		30				UN						
BHUA-05	357.56				J		30			CN	ST	RF					
BHUA-05	357.62				hJ		10				PR						
BHUA-05	357.64				J		30			CN	PR	RF					
BHUA-05	357.69				V		60				IR						
BHUA-05	357.76				J		5			CN	ST	RF					
BHUA-05	357.80				DB												
BHUA-05	357.90				V		75				IR						
BHUA-05	357.91				V		85				IR						
BHUA-05	357.92				V		55				IR						
BHUA-05	357.98				V		40				UN						
BHUA-05	358.00				MB												
BHUA-05	358.07				V		80				UN						
BHUA-05	358.10				V		80				IR						
BHUA-05	358.16				J					CN	ST	RF					
BHUA-05	358.17				hJ		50				ST						
BHUA-05	358.19				hJ		75				UN						
BHUA-05	358.21				hJ		30				UN						
BHUA-05	358.33				V		55				UN						
BHUA-05	358.36				V		80				UN						
BHUA-05	358.45				hJ		55				PR						
BHUA-05	358.47				J		45			VN	PR	RF					
BHUA-05	358.52				hJ		40				UN						
BHUA-05	358.55				V		55				UN						
BHUA-05	358.56				V		65				UN						
BHUA-05	358.60				V		50				UN						
BHUA-05	358.62	358.68			hJs	x2	50				UN			30			
BHUA-05	358.73				hJ		45				UN						
BHUA-05	358.85				V		55				UN						
BHUA-05	358.88				hJ		50				UN						
BHUA-05	358.95				hJ		60				PR						
BHUA-05	359.00				MB												
BHUA-05	359.00				MB												
BHUA-05	358.95				hJ		60				PR						
BHUA-05	359.00				MB												
BHUA-05	359.00				MB												
BHUA-05	359.05				hJ		50				UN						
BHUA-05	359.10				hJ		50				UN						
BHUA-05	359.13				V		60				ST						
BHUA-05	359.14				J		35				PR	RF					
BHUA-05	359.17				hJ		65				PR						
BHUA-05	359.20				hJ		50				UN						
BHUA-05	359.23				hJ		75				UN						
BHUA-05	359.36				J		45			CN	ST	RF					
BHUA-05	359.40				hJ		70				PR						
BHUA-05	359.42	359.55			hJs	x3	50				UN			70			
BHUA-05	359.50				hJ		45				PR						
BHUA-05	359.51				V		70				UN						
BHUA-05	359.54				J		45			CN	ST	RF					
BHUA-05	359.78				hJ		40				IR						
BHUA-05	359.83				V		45				UN						
BHUA-05	359.87				hJ		50										
BHUA-05	359.93				V		60				UN						
BHUA-05	359.94				hJ		60				UN						
BHUA-05	359.97				V		70				UN						
BHUA-05	360.00				MB												
BHUA-05	360.14	360.20			hJs	x2	50				CU			30			
BHUA-05	360.27				V		65				UN						
BHUA-05	360.36				J					CN	ST	RF					
BHUA-05	360.42				V						UN						
BHUA-05	360.47				J					CN	ST	RF					
BHUA-05	360.50				V		60				UN						
BHUA-05	360.50	360.60			V		50				UN						
BHUA-05	360.54				V	x2	75				UN			20			
BHUA-05	360.58				V		65				UN						
BHUA-05	360.62				V		70				UN						
BHUA-05	360.63				V		75				UN						
BHUA-05	360.68				J		70			CN	ST	RF					
BHUA-05	360.75				J		60			CN	ST	RF					
BHUA-05	360.76				V		60				PR						
BHUA-05	360.78				V		65				PR						
BHUA-05	360.79				V		55				PR						
BHUA-05	360.80				DB												
BHUA-05	360.85				hJ		55				PR						
BHUA-05	360.88	361.00			hJs	x6	70				PR			50			
BHUA-05	361.00				MB												
BHUA-05	361.42				V		50				IR						

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	361.47				V		70				IR						
BHUA-05	361.62				V		60				IR						
BHUA-05	361.83				J		45			SN	ST	RF					
BHUA-05	361.86				V		40				IR						
BHUA-05	361.92				V		45				UN						
BHUA-05	362.00				MB												
BHUA-05	362.03				hJ		10				UN						
BHUA-05	362.07				hJ		60				ST						
BHUA-05	362.10				AZ												
BHUA-05	362.12				J		60			SN	ST	RF					
BHUA-05	362.14				V		40				PR						
BHUA-05	362.28				hJ		70				PR						
BHUA-05	362.50				J		75			SN	ST	SM					
BHUA-05	362.64				V		65				UN						
BHUA-05	362.72				V		60										
BHUA-05	362.73				V		45				UN						
BHUA-05	362.74				V		55				UN						
BHUA-05	362.80				J		50			CN	ST	RF					
BHUA-05	362.90				hJ		60				UN						
BHUA-05	363.00				MB												
BHUA-05	363.04				hJ		60				UN						
BHUA-05	363.20				hJ		30				UN						
BHUA-05	363.45				hJ		15				UN						
BHUA-05	363.55				hJ		85				UN						
BHUA-05	363.70				J		30			CN	PR	RF					
BHUA-05	363.80				DB												
BHUA-05	363.96				hJ		50				PR						
BHUA-05	364.00				MB												
BHUA-05	364.27				hJ		80				UN						
BHUA-05	364.35				hJ		45				UN						
BHUA-05	364.35				V		45				PR						
BHUA-05	364.42				V		40				UN						
BHUA-05	364.45				hJ		30				UN						
BHUA-05	364.46				hJ		20				UN						
BHUA-05	364.61				J		40			CN	ST	RF					
BHUA-05	364.95				hJ		40				PR						
BHUA-05	365.00				MB												
BHUA-05	365.03				hJ		20				UN						
BHUA-05	365.08				hJ		5				UN						
BHUA-05	365.29				V		30				IR						
BHUA-05	365.31				V						IR						
BHUA-05	365.47				V		80				UN						
BHUA-05	365.50				V		80				UN						
BHUA-05	365.62				V		70				UN						
BHUA-05	365.62				V		85				UN						
BHUA-05	365.72				V		20				UN						
BHUA-05	365.87	365.90			hJs	x2	20							30			
BHUA-05	365.94				hJ		40				UN						
BHUA-05	366.00				MB												
BHUA-05	366.06				hJ		40				UN						
BHUA-05	366.14				V		30				UN						
BHUA-05	366.17				hJ		30				UN						
BHUA-05	366.23				hJ		30				UN						
BHUA-05	366.37				hJ		40				IR						
BHUA-05	366.43				hJ		40				UN						
BHUA-05	366.60				hJ		30				UN						
BHUA-05	366.67				hJ		50				IR						
BHUA-05	366.70				DB												
BHUA-05	366.87				V		30				UN						
BHUA-05	366.97				V		20				UN						
BHUA-05	367.00				MB												
BHUA-05	367.01				V		25				UN						
BHUA-05	367.02				V		30				UN						
BHUA-05	367.12				hJ		20				PR						
BHUA-05	367.15	367.25			hJs	x2	20				UN			40			
BHUA-05	367.21				hJ		35				ST						
BHUA-05	367.38				DB												
BHUA-05	367.42				V		50				UN						
BHUA-05	367.57				V		65				UN						
BHUA-05	367.74				V		70				UN						
BHUA-05	367.87				V		65				UN						
BHUA-05	367.89				V		60				UN						
BHUA-05	367.94				V						UN						
BHUA-05	367.98				hJ		50				UN						
BHUA-05	368.00				MB												
BHUA-05	368.18				V		50				UN						
BHUA-05	368.26				V		60				IR						
BHUA-05	368.27				V		75				UN						
BHUA-05	368.42				V		55				UN						

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	368.48				hJ		85				UN						
BHUA-05	368.55				hJ		20				UN						
BHUA-05	368.63				J		5			CN	ST	RF					
BHUA-05	368.64				hJ		60				UN						
BHUA-05	368.79				V		70				UN						
BHUA-05	368.82				J					CN	ST	RF					
BHUA-05	368.85				hJ		65				UN						
BHUA-05	368.93				J		70			SN	PR	RF					
BHUA-05	369.00				MB												
BHUA-05	369.06				V		60				UN						
BHUA-05	369.07				V		70				UN						
BHUA-05	369.12	369.22			hJs	x2	60				UN			119			
BHUA-05	369.27				V		85				UN						
BHUA-05	369.29				V		40				UN						
BHUA-05	369.37				J		20			CN	ST	RF					
BHUA-05	369.43				V		45				UN						
BHUA-05	369.58				hJ		75				UN						
BHUA-05	369.75				DB												
BHUA-05	369.95				V		35				UN						
BHUA-05	370.00				MB												
BHUA-05	370.30				V		60				UN						
BHUA-05	370.54				V		40				UN						
BHUA-05	370.58				V		20				UN						
BHUA-05	370.82				V		40				UN						
BHUA-05	370.88				V		30				UN						
BHUA-05	371.00				MB												
BHUA-05	371.10				V		45				UN						
BHUA-05	371.16				V		50				UN						
BHUA-05	371.25				V		40				UN						
BHUA-05	371.30				V		55				ST						
BHUA-05	371.40				hJ		70				PR						
BHUA-05	371.51				J		20			CN	ST	RF					
BHUA-05	371.56				V		65				UN						
BHUA-05	371.62				V		40				UN						
BHUA-05	371.69				V		20				UN						
BHUA-05	371.72				hJ		50				ST						
BHUA-05	371.80				J		20			CN	ST	RF					
BHUA-05	371.83				V		40				UN						
BHUA-05	371.85				AZ		15	90			IR						
BHUA-05	372.00				MB												
BHUA-05	372.07				V		60										
BHUA-05	372.11				hJ		90				UN						
BHUA-05	372.14				V		15				UN						
BHUA-05	372.15				V		48				UN						
BHUA-05	372.20	372.30			Js	x2	30			CN	ST	RF		130			
BHUA-05	372.23				hJ		55				UN						
BHUA-05	372.30				V		75				UN						
BHUA-05	372.32				hJ		25				UN						
BHUA-05	372.35				AZ		15	85									
BHUA-05	372.53				hJ		80				UN						
BHUA-05	372.54				hJ		65				UN						
BHUA-05	372.57				hJ		30				ST						
BHUA-05	372.63				hJ		60				UN						
BHUA-05	372.65				hJ		70				UN						
BHUA-05	372.65				hJ		65				UN						
BHUA-05	372.70				hJ		40				UN						
BHUA-05	372.80				DB												
BHUA-05	372.89				V		50				IR						
BHUA-05	372.90				V		40				IR						
BHUA-05	373.00				MB												
BHUA-05	373.02				hJ		30				ST						
BHUA-05	373.25				hJ		35		gy mi		UN						
BHUA-05	373.32				hJ		40				UN						
BHUA-05	373.34				hJ		50				UN						
BHUA-05	373.40				hJ		5				ST						
BHUA-05	373.43				hJ		65				UN						
BHUA-05	373.50				V		45				IR						
BHUA-05	373.54				J		20			CN	ST	RF					
BHUA-05	373.55				V		70				UN						
BHUA-05	373.60				V		55				ST						
BHUA-05	373.65	373.70			V	x2	60				UN			30			
BHUA-05	373.75				hJ		40				ST	PO					
BHUA-05	373.92				hJ		10				ST						
BHUA-05	373.95				hJ		50				UN						
BHUA-05	373.96				hJ		30				UN						
BHUA-05	374.00				MB												
BHUA-05	374.08				hJ		60				ST						
BHUA-05	374.19	374.32			hJs	x2	60				UN			25			
BHUA-05	374.25				V		65				UN						

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Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	374.37				V		70				UN						
BHUA-05	374.52	374.60			V	x2	65				UN			20			
BHUA-05	374.58				V		45				UN						
BHUA-05	374.63				J		30			SN	PR	RF					
BHUA-05	374.76				V		65				UN						
BHUA-05	374.95				V		75				IR						
BHUA-05	375.00				MB												
BHUA-05	375.01				V		70				UN						
BHUA-05	375.08				V		65				UN						
BHUA-05	375.19				V		75				UN						
BHUA-05	375.32				hJ		45				UN						
BHUA-05	375.35				hJ		80				UN						
BHUA-05	375.44				J		30			CN	ST	RF					
BHUA-05	375.65				J		20			CN	ST	RF					
BHUA-05	375.70				hJ		65				UN						
BHUA-05	375.77				DB												
BHUA-05	375.80				V		80				IR						
BHUA-05	376.00				MB												
BHUA-05	376.06				V		55				UN						
BHUA-05	376.11				J					CN	UN	SM					
BHUA-05	376.14				V		80				UN						
BHUA-05	376.18				V		70				UN						
BHUA-05	376.22				V		40				PR						
BHUA-05	376.40				V		85				UN						
BHUA-05	376.45				hJ		5				IR						
BHUA-05	376.55				V		75				UN						
BHUA-05	376.72				V		65				UN						
BHUA-05	376.84				hJ		50				UN						
BHUA-05	376.88				hJ		20				UN						
BHUA-05	377.00				MB												
BHUA-05	377.05				V		70				CU						
BHUA-05	377.27				hJ		20				PR						
BHUA-05	377.29				hJ		30				ST						
BHUA-05	377.32	377.45			hJs	x7	10	65									
BHUA-05	377.62				J		40			CN	PR	SM					
BHUA-05	377.70				V		80				UN						
BHUA-05	377.81				V		85				IR						
BHUA-05	377.85				V		65				IR						
BHUA-05	377.90				V		90				UN						
BHUA-05	377.91				V		80				UN						
BHUA-05	378.00				MB												
BHUA-05	378.23				V		65				UN						
BHUA-05	378.26				V		65				UN						
BHUA-05	378.32				J					CN	ST	RF					
BHUA-05	378.35				V		80				UN						
BHUA-05	378.43				V		80				UN						
BHUA-05	378.46				V		80				UN						
BHUA-05	378.53				V		75				UN						
BHUA-05	378.57				J		35			CN	ST	RF					
BHUA-05	378.67				V		60				UN						
BHUA-05	378.68				V		60				UN						
BHUA-05	378.75				V		90				IR						
BHUA-05	378.80				DB												
BHUA-05	378.85				hJs		70				UN						
BHUA-05	378.93				MB												
BHUA-05	379.16				V		70				IR						
BHUA-05	379.25				V		60				UN						
BHUA-05	379.55				V		65				UN						
BHUA-05	379.63				V		60				UN						
BHUA-05	379.69				V		45				PR						
BHUA-05	379.70				V		40										
BHUA-05	379.76				J		20			CN	ST	RF					
BHUA-05	379.85	380.00			AZ		20	65	multiple healed defects, various angles, generally su								
BHUA-05	379.87				V		80				UN						
BHUA-05	379.90				V		60				UN						
BHUA-05	380.00				MB												
BHUA-05	380.03				V						UN						
BHUA-05	380.03				V						UN						
BHUA-05	380.08				V		70				UN						
BHUA-05	380.13				V		65				UN						
BHUA-05	380.20				hJs		70				PR						
BHUA-05	380.24				V		85				UN						
BHUA-05	380.32				V		50				CU						
BHUA-05	380.36				hJs		45				IR						
BHUA-05	380.42				V						UN						
BHUA-05	380.66				J		20			CN	ST	RF					
BHUA-05	380.84				V		50				UN						
BHUA-05	381.00				MB												
BHUA-05	381.14				V		40				UN						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	381.62				hJs		30				ST						
BHUA-05	381.73				DB												
BHUA-05	381.77				DB												
BHUA-05	381.82	381.90			V	x2	65							20			
BHUA-05	381.94				V		75				UN						
BHUA-05	382.00				MB												
BHUA-05	382.65				V		40				UN						
BHUA-05	382.67				V		35				UN						
BHUA-05	382.70	382.77			V	x2	30				UN			20			
BHUA-05	382.85	382.97			V	x2	30				UN			20			
BHUA-05	383.00				MB												
BHUA-05	383.05				V		40				UN						
BHUA-05	383.10	383.18			V	x2	60				UN			50			
BHUA-05	383.22	383.31			V	x2	30				ST			40			
BHUA-05	383.26				hJ		40				PR						
BHUA-05	383.28				hJ		20				PR						
BHUA-05	383.51				hJ		25				UN						
BHUA-05	383.55				hJ		30				UN						
BHUA-05	383.72				V		45				PR						
BHUA-05	384.00				MB												
BHUA-05	384.18	384.30			V	x2	30				ST			40			
BHUA-05	384.30				hJ						UN						
BHUA-05	384.37				hJ		70				ST						
BHUA-05	384.48				V		50				ST						
BHUA-05	384.60				V		90				UN						
BHUA-05	384.68				V		65				UN						
BHUA-05	384.74				V		55				UN						
BHUA-05	384.75				DB												
BHUA-05	384.83				V		65				UN						
BHUA-05	384.90				V		50				UN						
BHUA-05	385.00				MB												
BHUA-05	385.03				hJ		90				ST						
BHUA-05	385.17				V		70				UN						
BHUA-05	385.30	385.41			V	x2	50				UN			50			
BHUA-05	385.54				hJ		55				PR						
BHUA-05	385.62				hJ		70				UN						
BHUA-05	385.77				V		70				UN						
BHUA-05	385.94				V		70				UN						
BHUA-05	386.00				MB												
BHUA-05	386.10				V		70				UN						
BHUA-05	386.20				V		75				UN						
BHUA-05	386.25				V		30				UN						
BHUA-05	386.28	386.38			hJs	x2	50							20			
BHUA-05	386.42				V		50				PR						
BHUA-05	386.46				hJ						PR						
BHUA-05	386.50				J		45			CN	PR	RF					
BHUA-05	386.53				hJ		55				CU						
BHUA-05	386.58				V		50				UN						
BHUA-05	386.64				hJ		60				UN						
BHUA-05	386.70				V		70				UN						
BHUA-05	386.74				V		60				CU						
BHUA-05	386.77				V		70				UN						
BHUA-05	386.86				V		30				UN						
BHUA-05	386.87				hJ		55				UN						
BHUA-05	386.95				V		70				IR						
BHUA-05	386.96				V		40				UN						
BHUA-05	387.00				MB												
BHUA-05	387.09				J		50			CN	ST	RF					
BHUA-05	387.21				V		65				PR						
BHUA-05	387.25				J		60			CN	ST	RF					
BHUA-05	387.35				hJ		65				ST						
BHUA-05	387.40				V		50				UN						
BHUA-05	387.42				V		50				UN						
BHUA-05	387.47				V		65				UN						
BHUA-05	387.50				AZ												
BHUA-05	387.56				V						UN						
BHUA-05	387.68				V		5				ST						
BHUA-05	387.91				hJ		60				ST						
BHUA-05	388.00				MB												
BHUA-05	388.01				V		65				UN						
BHUA-05	388.05				V		60				UN						
BHUA-05	388.18				V		75				UN						
BHUA-05	388.24				V		70				IR						
BHUA-05	388.39				V		70				IR						
BHUA-05	388.43				V		45				UN						
BHUA-05	388.56				V		75				UN						
BHUA-05	388.58				V		60				UN						
BHUA-05	388.66				hJ		65				ST						
BHUA-05	388.74				V		65				UN						

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	388.84				V		60				UN						
BHUA-05	388.90				V		70				UN						
BHUA-05	388.91				V		65				UN						
BHUA-05	389.00				MB												
BHUA-05	389.04				V		25				UN						
BHUA-05	389.06				V		25				UN						
BHUA-05	389.07	389.19			V	x3	75				UN			15			
BHUA-05	389.11	389.25			hJs	x2	70				ST			20			
BHUA-05	389.20				hJ		60				ST						
BHUA-05	389.31				J		75			CN	ST	RF					
BHUA-05	389.32	389.40			V	x3	60				IR			10			
BHUA-05	389.38				J		45			CN	ST	RF					
BHUA-05	389.44				V		75				UN						
BHUA-05	389.45				V		75				UN						
BHUA-05	389.45				AZ		15	90	multiple healed defects, various angles, generally su								
BHUA-05	389.50				V		60				UN						
BHUA-05	389.51				V		60				UN						
BHUA-05	389.66				V		55				UN						
BHUA-05	389.68				V		70				UN						
BHUA-05	389.72				hJ		20				UN						
BHUA-05	389.94				V		65				UN						
BHUA-05	390.00				MB												
BHUA-05	390.09				hJ		50				UN						
BHUA-05	390.11				hJ		50				UN						
BHUA-05	390.12				hJ		60				CU						
BHUA-05	390.18				hJ		35				PR						
BHUA-05	390.22				V		80				UN						
BHUA-05	390.26				J		30			CN	ST	RF					
BHUA-05	390.32				V		70				UN						
BHUA-05	390.34				V		75				UN						
BHUA-05	390.41				V		5				UN						
BHUA-05	390.43				V		60				UN						
BHUA-05	390.47				V		60				UN						
BHUA-05	390.60				V		20				IR						
BHUA-05	390.67				V		75				UN						
BHUA-05	390.69				hJ		5				CU						
BHUA-05	390.71				hJ		40				PR						
BHUA-05	390.73				hJ		30				PR						
BHUA-05	390.74				hJ		40				PR						
BHUA-05	390.78				hJ		30				CU						
BHUA-05	390.80				DB												
BHUA-05	390.81				hJ		20				CU						
BHUA-05	390.90				hJ		85				CU						
BHUA-05	390.92				V		40				CU						
BHUA-05	391.00				MB												
BHUA-05	391.00				MB												
BHUA-05	391.02				V		70				UN						
BHUA-05	391.05				V		30				UN						
BHUA-05	391.08				V		60				IR						
BHUA-05	391.12				hJ		65				UN						
BHUA-05	391.17				hJ		55				UN						
BHUA-05	391.21				hJ		40				CU						
BHUA-05	391.21				hJ		50				CU						
BHUA-05	391.25				hJ		90				UN						
BHUA-05	391.28				V		50				UN						
BHUA-05	391.32				V		40				CU						
BHUA-05	391.39				J		40			CN	ST	RF					
BHUA-05	391.42	391.54			V	x3	40				ST			30			
BHUA-05	391.45				V		70				IR						
BHUA-05	391.48				V		60				IR						
BHUA-05	391.50				V		60				UN						
BHUA-05	391.62				hJ		65				ST						
BHUA-05	391.70				hJ		40				PR						
BHUA-05	391.74				hJ		5				IR						
BHUA-05	391.78				V		20				IR						
BHUA-05	391.82	391.87			AZ		0	90	multiple healed defects, various angles, pl gn-wh infi								
BHUA-05	391.83				J					CN	ST	RF					
BHUA-05	391.85				V		60				IR						
BHUA-05	391.88				V		65		halo of many hJs and Vs, dipping at 55-85°		IR						
BHUA-05	391.93				J		90			CN	PR	SM					
BHUA-05	392.00				MB												
BHUA-05	392.07				V		90				UN						
BHUA-05	392.13				V		30				UN						
BHUA-05	392.14				V		45				UN						
BHUA-05	392.16				V		30				UN						
BHUA-05	392.18				J		70			CN	UN	SL					
BHUA-05	392.25				J		90			CN	UN	SL					
BHUA-05	392.28				V		20				CU						
BHUA-05	392.32				V		60				IR						

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Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	392.35				V		30				UN						
BHUA-05	392.35				V		30				UN						
BHUA-05	392.40				V		60				IR						
BHUA-05	392.42				V		65				IR						
BHUA-05	392.44				V		40				UN						
BHUA-05	392.49				J		30			CN	ST	RF					
BHUA-05	392.54				V		75				UN						
BHUA-05	392.60				V		55				UN						
BHUA-05	392.60				V		5				UN						
BHUA-05	392.63				V		75				UN						
BHUA-05	392.64				V		50				UN						
BHUA-05	392.69	392.73			V	x2	50				UN			30			
BHUA-05	392.72				J		70			CN	ST	SM					
BHUA-05	392.76				V		50				IR						
BHUA-05	392.84				J		85			SN	UN	SL					
BHUA-05	392.85				J		90			VN	UN	SL					
BHUA-05	392.94				J		60			VN	UN	SM					
BHUA-05	392.95				J		85			VN	UN	SM					
BHUA-05	392.95				J		85			VN	UN	SM					
BHUA-05	393.00				MB												
BHUA-05	393.02				V		60				IR						
BHUA-05	393.05				J		40			CN	ST	RF					
BHUA-05	393.08				J		60			CN	ST	SL					
BHUA-05	393.13				J					CN	ST	RF					
BHUA-05	393.13				V		70				UN						
BHUA-05	393.13				V		20				UN						
BHUA-05	393.17				V		40				UN						
BHUA-05	393.20				V		45				IR						
BHUA-05	393.22				V		85				IR						
BHUA-05	393.24				V		45				UN						
BHUA-05	393.30				V		55				IR						
BHUA-05	393.31				V		75				IR						
BHUA-05	393.34				V						UN						
BHUA-05	393.36				V		50				IR						
BHUA-05	393.41				J		30			CN	UN	RF					
BHUA-05	393.49				V		75				IR						
BHUA-05	393.50				J					SN	PR	SL					
BHUA-05	393.52				V		30				UN						
BHUA-05	393.54				J		30			CN	ST	RF					
BHUA-05	393.58	393.67			V	x2	75				UN			30			
BHUA-05	393.63				V		85				UN						
BHUA-05	393.65				V		30				UN						
BHUA-05	393.69				V		50				UN						
BHUA-05	393.82				V		60				UN						
BHUA-05	393.84				V		85				ST						
BHUA-05	393.84				V		80				UN						
BHUA-05	393.90				V		90				UN						
BHUA-05	393.95				V		45				UN						
BHUA-05	393.97	394.35			AZ		0	90	multiple healed defects, various angles, pl gn-wh infi								
BHUA-05	394.03				V		50				UN						
BHUA-05	394.08				J		5			SN	PR	SM					
BHUA-05	394.23				J		50			SN	ST	SL					
BHUA-05	394.30	394.42			V	x2	50				UN			40			
BHUA-05	394.38				CO		50				UN						
BHUA-05	394.40				J		50			CN	ST	SL					
BHUA-05	394.62				V		50				UN						
BHUA-05	394.63				J		50			CN	ST	SL					
BHUA-05	394.72				V		10				UN						
BHUA-05	394.81				V		50				UN						
BHUA-05	394.87				V		40				IR						
BHUA-05	394.96				V						IR						
BHUA-05	395.00				MB												
BHUA-05	395.03				V		60										
BHUA-05	395.04				J		60			CN	ST	SL					
BHUA-05	395.12				J		65		possible DB	CN	ST	SL					
BHUA-05	395.19				V		80				ST						
BHUA-05	395.36				V						ST						
BHUA-05	395.38				V		35				ST						
BHUA-05	395.39				J		40			SN	UN	SL					
BHUA-05	395.47				J		30			CN	ST	SL					
BHUA-05	395.60	395.90			AZ		0	90	multiple healed defects, various angles, pl gn-wh infi								
BHUA-05	395.62				J		60			VN	CU	SL					
BHUA-05	395.67				V						UN						
BHUA-05	395.72	395.80			V	x2	65				UN			110			
BHUA-05	395.89				J		65			VN	ST	SL					
BHUA-05	395.94				J		45			CN	ST	RF					
BHUA-05	396.00				MB												
BHUA-05	396.06				J		45			SN	PR	SM					
BHUA-05	396.08				V		60				UN						

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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	396.15				J		40			CN	PR	SM					
BHUA-05	396.24				V		10				UN						
BHUA-05	396.30				V		40				UN						
BHUA-05	396.35				V		55				ST						
BHUA-05	396.45				V		50				UN						
BHUA-05	396.48				V		50				UN						
BHUA-05	396.57				V		45				UN						
BHUA-05	396.64				hJ		90				UN						
BHUA-05	396.66				V		20				IR						
BHUA-05	396.78				J					VN	ST	RF					
BHUA-05	396.80	397.20			AZ		30	90	multiple healed defects, various angles, pl gn-wh inf								
BHUA-05	396.81				V		40				UN						
BHUA-05	397.00				MB												
BHUA-05	397.03				J		90			VN	ST	SL					
BHUA-05	397.08				J		30			VN	ST	SM					
BHUA-05	397.10				hJ		85				ST						
BHUA-05	397.11				hJ		85				ST						
BHUA-05	397.14				J		50			CN	ST	RF					
BHUA-05	397.17				hJ						ST						
BHUA-05	397.35				J		70			CN	PR	SM					
BHUA-05	397.55	397.66			hJs	x2	80				UN			20			
BHUA-05	397.74				hJ						CU						
BHUA-05	397.89				hJ		30				CU						
BHUA-05	397.93				J		70			CN	UN	SM					
BHUA-05	398.00				MB												
BHUA-05	398.12				hJ		70				PR						
BHUA-05	398.16				hJ		30				PR						
BHUA-05	398.19				hJ						CU						
BHUA-05	398.27				hJ		90				UN						
BHUA-05	398.39				hJ		60				PR						
BHUA-05	398.43				hJ		45				UN						
BHUA-05	398.45				hJ		80				UN						
BHUA-05	398.62				J		60			CN	UN	SM					
BHUA-05	398.72				J					CN	ST	RF					
BHUA-05	398.77				J		75			CN	ST	RF					
BHUA-05	398.85				V		82				UN						
BHUA-05	398.87				hJ		70				ST						
BHUA-05	398.96				hJ		75				UN						
BHUA-05	399.00				MB												
BHUA-05	399.20				V		50		pl gn-wh mi		UN						
BHUA-05	399.45				J		70			SN	UN	SM					
BHUA-05	399.56				J		50			CN	UN	RF					
BHUA-05	399.65				hJ		90				UN						
BHUA-05	399.69				J		40			CN	PR	SM					
BHUA-05	399.70				J		90			SN	PR	SM					
BHUA-05	399.81				J		30			CN	PR	RF					
BHUA-05	399.90				J		70			SN	UN	SL					
BHUA-05	399.90				V		10				IR						
BHUA-05	399.92				V		50				UN						
BHUA-05	400.00				MB												
BHUA-05	400.10				J		50			SN	UN	SL					
BHUA-05	400.12				hJ		60				UN						
BHUA-05	400.19				hJ		90				UN						
BHUA-05	400.20				hJ		70				UN						
BHUA-05	400.24				hJ		70				UN						
BHUA-05	400.38				V		30				UN						
BHUA-05	400.42				V		45				UN						
BHUA-05	400.56				V		10				UN						
BHUA-05	400.58				hJ		50				PR						
BHUA-05	400.61				hJ		50				PR						
BHUA-05	400.63				hJ		30				CU						
BHUA-05	400.66				hJ		40				CU						
BHUA-05	400.70				hJ		30				UN						
BHUA-05	400.71				hJ		45				PR						
BHUA-05	400.72				J		40			CN	PR	SM					
BHUA-05	400.76	400.90			V	x4	45				UN			30			
BHUA-05	400.89				hJ		70				PR						
BHUA-05	400.94				J		40			VN	UN	SM					
BHUA-05	401.00				MB												
BHUA-05	401.01				J		55			CN	ST	RF					
BHUA-05	401.02				hJ		40				ST						
BHUA-05	401.05				J		50			CN	ST	SM					
BHUA-05	401.17				J		60			CT	UN	SM					
BHUA-05	401.26				hJ		50				ST						
BHUA-05	401.27				hJ		70				UN						
BHUA-05	401.28				J		45			CN	UN	SM					
BHUA-05	401.33				hJ		60				UN						
BHUA-05	401.35				hJ		60				PR						
BHUA-05	401.42				hJ		70				PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	401.42				hJ		70				PR						
BHUA-05	401.43				J		60			CN	IR	RF					
BHUA-05	401.54				hJ		20				PR						
BHUA-05	401.59				hJ		80				UN						
BHUA-05	401.60				hJ		40				PR						
BHUA-05	401.68				J		45			CN	PR	RF					
BHUA-05	401.78				hJ		75				PR						
BHUA-05	401.82				hJ		30				PR						
BHUA-05	401.88				hJ		80				PR						
BHUA-05	401.89				hJ		30				PR						
BHUA-05	401.93				hJ		30				PR						
BHUA-05	401.96				V		50							7			
BHUA-05	401.98				V		60				PR			2			
BHUA-05	402.00				MB												
BHUA-05	402.02				V		50				PR			5			
BHUA-05	402.04				hJ		40				PR						
BHUA-05	402.09				hJ		65				PR						
BHUA-05	402.16				J		36			CN	ST	RF					
BHUA-05	402.21				hJ		80				PR						
BHUA-05	402.26				V		50				UN						
BHUA-05	402.33				hJ		90				UN						
BHUA-05	402.41				V		45				PR						
BHUA-05	402.45				V		70		wh, or mi		PR						
BHUA-05	402.50				hJ		30				UN						
BHUA-05	402.50				hJ		30				PR						
BHUA-05	402.55				V		10				UN						
BHUA-05	402.60				hJ		20				UN						
BHUA-05	402.70				J		60			CN	ST	RF					
BHUA-05	402.85				J		70			CN	PR	SL					
BHUA-05	403.00				MB												
BHUA-05	404.00				MB												
BHUA-05	404.33				hJ		70				PR						
BHUA-05	404.40				J		75			VN	UN	SM					
BHUA-05	404.43				V		6				IR						
BHUA-05	404.47				V		40				UN						
BHUA-05	404.60				J		45			CN	PR	RF					
BHUA-05	404.63				J		40			CN	PR	RF					
BHUA-05	404.75				hJ						IR						
BHUA-05	404.78				hJ		30				PR						
BHUA-05	404.82				J					CN	UN	RF					
BHUA-05	405.00				MB												
BHUA-05	405.02				hJ		40				UN						
BHUA-05	405.05				hJ		50				UN						
BHUA-05	405.10				hJ		50				UN						
BHUA-05	405.15				hJ		60				UN						
BHUA-05	405.18				hJ		65				UN						
BHUA-05	405.26				hJ		40				UN						
BHUA-05	405.26				hJ		40				ST						
BHUA-05	405.30				hJ		55				PR						
BHUA-05	405.46	405.59			DB	x4											
BHUA-05	405.50				J		65			SN	UN	SM					
BHUA-05	405.89				V		75				UN			5			
BHUA-05	405.91				J		10			CN	PR	SM					
BHUA-05	405.96				J		50			CN	ST	RF					
BHUA-05	406.00				MB												
BHUA-05	406.02				V		70				UN						
BHUA-05	406.06				J		75			VN	UN	SM					
BHUA-05	406.12				hJ		65				IR						
BHUA-05	406.16				hJ		70				IR						
BHUA-05	406.21				V		70				UN			4			
BHUA-05	406.23				V		70				UN			4			
BHUA-05	406.27				V		40				IR			5			
BHUA-05	406.31				V		80				IR			10			
BHUA-05	406.32				hJ		70				UN						
BHUA-05	406.32				V		80				UN			9			
BHUA-05	406.40				J		60			CN	PR	SM					
BHUA-05	406.44				V		45				IR			2			
BHUA-05	406.46				hJ		60				IR						
BHUA-05	406.52				V						UN						
BHUA-05	406.55				J		80			SN	UN	SL					
BHUA-05	406.72				J		20			CN	ST	RF					
BHUA-05	406.86				J					SN	UN	SL					
BHUA-05	406.98				J		70			SN	PR	SM					
BHUA-05	407.00				MB												
BHUA-05	407.04				V		90				UN						
BHUA-05	407.07				J		70			CN	UN	SM					
BHUA-05	407.15				hJ		80				UN						
BHUA-05	407.15				J		20			CN	ST	RF					
BHUA-05	407.18				hJ		90				UN						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	407.36				V		80				UN						
BHUA-05	407.44				J		70			CN	UN	RF					
BHUA-05	407.47				J					CN	PR	RF					
BHUA-05	407.68				J		85			VN	PR	SM					
BHUA-05	407.80				J		10			CN	PR	RF					
BHUA-05	407.90				J		25			CN	UN	RF					
BHUA-05	407.94				MB												
BHUA-05	408.00				MB												
BHUA-05	408.00				J		10			CN	UN	SM					
BHUA-05	408.10				J		90			SN	PR	SM					
BHUA-05	408.34				J		80			CN	UN	RF					
BHUA-05	408.44				J		20			CN	PR	RF					
BHUA-05	408.67				J		40			SN	UN	SM					
BHUA-05	408.68				J		40			VN	PR	SM					
BHUA-05	408.74				J		40			VN	UN	SM					
BHUA-05	408.90				J		85			CN	ST	SM					
BHUA-05	409.06				J		60			CN	UN	SM					
BHUA-05	409.12				J		50			VN	UN	SM					
BHUA-05	409.20				hJ		30				UN						
BHUA-05	409.24				hJ		30				PR						
BHUA-05	409.27				J		10			CN	ST	RF					
BHUA-05	409.31				J		50			VN	PR	SL					
BHUA-05	409.39				hJ		70				ST						
BHUA-05	409.45				hJ		25				IR						
BHUA-05	409.50				J		45			VN	ST	RF					
BHUA-05	409.69				J		45			VN	UN	RF					
BHUA-05	409.76				hJ		20				UN						
BHUA-05	409.77				hJ		20				UN						
BHUA-05	409.94				J		80			VN	UN	SM					
BHUA-05	410.10				DB												
BHUA-05	410.14				hJ		45				UN						
BHUA-05	410.30				hJ		25				UN						
BHUA-05	411.05				hJ		5				PR						
BHUA-05	411.10				hJ		20				UN						
BHUA-05	411.13				hJ		20				UN						
BHUA-05	411.80				DB												
BHUA-05	411.95				J		40			CN	UN	RF					
BHUA-05	412.00				MB												
BHUA-05	412.10				J					CN	ST	RF					
BHUA-05	412.20				J		30			CN	ST	RF					
BHUA-05	412.50				CS		5			CN	ST	RF	<	15			
BHUA-05	412.64				CS		35										
BHUA-05	412.95				CS												
BHUA-05	413.00				MB												
BHUA-05	413.22				CS		15										
BHUA-05	413.89				J					CN	IR	RF					
BHUA-05	414.00				MB												
BHUA-05	414.03				V		70				UN						
BHUA-05	414.10				V		70				UN						
BHUA-05	414.13				J		40			CN	UN	RF					
BHUA-05	414.17				J		40			CN	UN	RF					
BHUA-05	414.22				hJ		80				PR						
BHUA-05	414.23				hJ		40				UN						
BHUA-05	414.24				hJ		80				PR						
BHUA-05	414.33				hJ		40				UN						
BHUA-05	414.47				hJ		40				IR						
BHUA-05	414.50				hJ		80				UN						
BHUA-05	414.62				J		50			CN	PR	SM					
BHUA-05	414.65				J		35			CN	PR	SM					
BHUA-05	414.82				V		50				UN						
BHUA-05	414.84				V		60				UN						
BHUA-05	414.94				J		70			CN	UN	SM					
BHUA-05	415.00				MB												
BHUA-05	415.03				hJ		75				UN						
BHUA-05	415.08				hJ		80				IR						
BHUA-05	415.14				hJ		75				UN						
BHUA-05	415.19				hJ		80				ST						
BHUA-05	415.21				V		75				PR						
BHUA-05	415.36				hJ		85				ST						
BHUA-05	415.46				hJ		70				PR						
BHUA-05	415.47				hJ		30				UN						
BHUA-05	415.50				hJ		75				PR						
BHUA-05	415.60	415.70			hJs	x3	30				PR			110			
BHUA-05	415.67				hJ		90				PR						
BHUA-05	415.80				J		10			SN	PR	SM					
BHUA-05	415.86				hJ		80				PR						
BHUA-05	415.88				hJ		30				UN						
BHUA-05	416.00				MB												
BHUA-05	416.08				hJ		30				CU						

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Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	416.10				hJ		20				UN						
BHUA-05	416.19				hJ		15				PR						
BHUA-05	416.21				hJ		40				CU						
BHUA-05	416.23				hJ		45				CU						
BHUA-05	416.29	416.33			hJs	x2	30				CU			30			
BHUA-05	416.56				hJ		20				UN						
BHUA-05	416.82				hJ		30				UN						
BHUA-05	416.83	416.90			hJs	x2	30							30			
BHUA-05	416.87				J		20			VN	PR	SM					
BHUA-05	416.89				hJ		70				PR						
BHUA-05	416.90				hJ		30				CU						
BHUA-05	416.93				hJ		50				PR						
BHUA-05	416.95				hJ		80				PR						
BHUA-05	416.96				hJ		90				PR						
BHUA-05	416.97				hJ		90				PR						
BHUA-05	417.00				MB												
BHUA-05	417.02				hJ		40				PR						
BHUA-05	417.16	417.20			hJs	x2	65				PR			30			
BHUA-05	417.22				J		30			CN	PR	SM					
BHUA-05	417.37				hJ		80				PR						
BHUA-05	417.58				hJ		30				ST						
BHUA-05	417.63				J		35			CN	PR	RF					
BHUA-05	417.69				hJ		5				UN						
BHUA-05	417.76				J		30			CN	PR	RF					
BHUA-05	417.80				J		90			CN	UN	RF					
BHUA-05	417.90	418.00			hJs	x2	75				UN			10			
BHUA-05	417.94				hJ		30				UN						
BHUA-05	417.97				hJ		80				UN						
BHUA-05	418.00				MB												
BHUA-05	418.10				EW	/J	75			SN	UN	SM	<	5			
BHUA-05	418.13	418.20			hJs	x2	80				UN			10			
BHUA-05	418.17				V		70				UN						
BHUA-05	418.21				J		45			VN	ST	RF					
BHUA-05	418.29				V		80				IR			3			
BHUA-05	418.38				V		40				IR						
BHUA-05	418.40				V		40				IR						
BHUA-05	418.45				V		90				UN						
BHUA-05	418.48				V		45				UN		<	4			
BHUA-05	418.52				V		20				CU						
BHUA-05	418.58				J		40			CN	ST	SM					
BHUA-05	418.59				V		40				UN			3			
BHUA-05	418.62				V		70				UN			3			
BHUA-05	418.71				J		40			SN	ST	RF					
BHUA-05	418.80				J		80			CN	ST	RF					
BHUA-05	418.93				J		80			CN	ST	RF					
BHUA-05	418.98				V		15				UN		<	4			
BHUA-05	419.00				MB												
BHUA-05	419.12				V		80				UN						
BHUA-05	419.14				V		80				UN		<	3			
BHUA-05	419.23				V		75				IR		<	3			
BHUA-05	419.31				J		60			CN	ST	SM					
BHUA-05	419.39				V		60				UN						
BHUA-05	419.44				V		60										
BHUA-05	419.47				J		35			CN	ST	RF					
BHUA-05	419.56				hJ		10				PR						
BHUA-05	419.64				J		45			CN	PR	SM					
BHUA-05	419.76				hJ		20				PR						
BHUA-05	419.82				J		10			CN	ST	RF					
BHUA-05	419.99				J		20			CN	PR	RF					
BHUA-05	420.00				MB												
BHUA-05	420.15				V		80				UN		<	5			
BHUA-05	420.16				J		45			CN	ST	RF					
BHUA-05	420.29				J		30			CN	PR	SM					
BHUA-05	420.44				V		75				UN		<	2			
BHUA-05	420.50				V		70				UN						
BHUA-05	420.53				V		60				UN						
BHUA-05	420.58				DB												
BHUA-05	420.59				J		40		possible DB	SN	UN	RF					
BHUA-05	420.70				V		85				UN						
BHUA-05	420.71				J		85			SN	ST	RF					
BHUA-05	420.76				J				possible DB	VN	UN	SM					
BHUA-05	420.87				J		80			CN	PR	SM					
BHUA-05	420.99				J		40			CN	PR	SM					
BHUA-05	421.00				MB												
BHUA-05	421.06				J		40			CN	ST	RF					
BHUA-05	421.27				J		10			CN	ST	RF					
BHUA-05	421.35	421.47			hJs	x2	10				PR			20			
BHUA-05	421.53				J		20			CN	ST	RF					
BHUA-05	421.58				J		50			CN	ST	RF					

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
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PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	421.63				hJ		85				ST						
BHUA-05	421.69				J		25			CN	ST	RF					
BHUA-05	421.72				hJ		75				ST						
BHUA-05	421.86				J		45			CN	CU	RF					
BHUA-05	421.94	422.00			hJs	x2	85				PR			10			
BHUA-05	422.00				MB												
BHUA-05	422.04				J		15			CN	ST	RF					
BHUA-05	422.10	422.20			V	x2	85				UN		<	30			
BHUA-05	422.24				J		60			CN	PR	SM					
BHUA-05	422.29				hJ		40				PR						
BHUA-05	422.32				V		70				PR						
BHUA-05	422.35				hJ		40				PR						
BHUA-05	422.36				hJ		50				CU						
BHUA-05	422.38				hJ		80				PR						
BHUA-05	422.52				hJ		30										
BHUA-05	422.84				hJ		70				PR						
BHUA-05	422.95				hJ		70				PR						
BHUA-05	423.00				MB												
BHUA-05	423.05				hJ		50				PR						
BHUA-05	423.10				hJ		80				PR						
BHUA-05	423.28				V		30				UN						
BHUA-05	423.38				J		80				UN						
BHUA-05	423.42				J		60			CN	ST	RF					
BHUA-05	423.46				hJ		50				UN						
BHUA-05	423.54				hJ		70				UN						
BHUA-05	423.66				hJ		60				UN						
BHUA-05	423.70				hJ		60				UN						
BHUA-05	423.75				hJ						UN						
BHUA-05	423.79				hJ		65				PR						
BHUA-05	425.00				MB												
BHUA-05	425.03				hJ		40				PR						
BHUA-05	425.08				hJ		35										
BHUA-05	425.39				hJ		25				PR						
BHUA-05	425.73				hJ						PR						
BHUA-05	425.77				hJ		35				PR						
BHUA-05	425.99				hJ		50				PR						
BHUA-05	426.00				MB												
BHUA-05	426.05				hJ		30				PR						
BHUA-05	426.19				hJ		40				PR						
BHUA-05	426.30				V		80				UN						
BHUA-05	426.33				DB												
BHUA-05	426.45	426.60			hJs	x3	25				PR			10			
BHUA-05	426.54				hJ		80				UN						
BHUA-05	426.61				DB												
BHUA-05	426.77				DB												
BHUA-05	426.82				DB												
BHUA-05	426.86				DB												
BHUA-05	427.00				MB												
BHUA-05	427.21				hJ		50				UN						
BHUA-05	428.00				MB												
BHUA-05	428.02				hJ		40				PR						
BHUA-05	428.05				hJ		35				IR						
BHUA-05	428.06				hJ		30				PR						
BHUA-05	428.08				V		45				UN						
BHUA-05	428.16				V		40				UN						
BHUA-05	428.32				hJ		20				UN						
BHUA-05	428.47				hJ		40				PR						
BHUA-05	428.50				hJ		40				PR						
BHUA-05	428.51				hJ		10				UN						
BHUA-05	428.55				DB												
BHUA-05	428.59				V		55				IR						
BHUA-05	428.68				V		55				IR						
BHUA-05	428.74				hJ		30				CU						
BHUA-05	428.88				hJ		70				PR						
BHUA-05	428.89				hJ		70				PR						
BHUA-05	428.89	429.00			hJs	x2	30				PR			20			
BHUA-05	428.95				hJ		65				PR						
BHUA-05	429.04				V		70				PR						
BHUA-05	429.22				V		30				PR						
BHUA-05	429.43				hJ		80				PR						
BHUA-05	429.52				hJ		20				PR						
BHUA-05	429.62				J		30			CN	ST	RF					
BHUA-05	429.65				CO		40				PR						
BHUA-05	429.84				DB												
BHUA-05	430.10	430.30			hJs	x3	30				PR						
BHUA-05	430.90				J		40			CN	PR	RF					
BHUA-05	430.97				hJ		85				UN						
BHUA-05	431.72	431.85			hJs	x2	35				PR					10 mm spacing	
BHUA-05	431.97				J		40			CN	PR	RF					

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	432.03				V		0				UN			2			
BHUA-05	432.21				hJ		10				PR						
BHUA-05	432.37				hJ		70				UN						
BHUA-05	432.40				hJ		70				UN						
BHUA-05	432.50				J		65			CN	PR	RF					
BHUA-05	432.54	432.68			hJs	x2	75				PR					20 mm spacing	
BHUA-05	432.69				hJ		75				UN						
BHUA-05	432.79	432.90			DB	x2	0										
BHUA-05	432.94				V		75				UN			2			
BHUA-05	432.96				DB		0										
BHUA-05	433.33				hJ		30				PR						
BHUA-05	433.47	433.59			hJs	x3	65				PR					100 mm spacing	
BHUA-05	433.68	433.76			hJs	x3	50				PR					150 mm spacing	
BHUA-05	434.25				hJ		90				UN						
BHUA-05	434.45				V		5				UN			2			
BHUA-05	434.59				V		20							4			
BHUA-05	435.13	435.40			V	x9	65				UN			3		210 mm spacing	
BHUA-05	435.57				hJ		65				PR						
BHUA-05	435.95				V		65				PR			2			
BHUA-05	435.98				hJ		60				PR						
BHUA-05	436.18	436.30			hJs	x2	60				PR					40 mm spacing	
BHUA-05	436.28				J		40			CN	PR	SM					
BHUA-05	436.81				hJ		75				IR						
BHUA-05	436.91				hJ		90				UN						
BHUA-05	437.15	437.30			V	x2	70				UN			1		10 mm spacing	
BHUA-05	437.26				V		50				PR			3			
BHUA-05	437.30	437.46			hJs	x3	30				PR					150 mm spacing	
BHUA-05	437.33				hJ		55				PR						
BHUA-05	437.78				J		40			CN	PR	SM					
BHUA-05	437.90				hJ		85				UN						
BHUA-05	438.02				hJ		75				UN						
BHUA-05	438.18				V		75				PR			4		120 mm spacing	
BHUA-05	438.69				V		60				UN			3			
BHUA-05	438.70				J		25			CN	PR	RF					
BHUA-05	438.93				V		60				PR			15			
BHUA-05	439.69				hJ		50				PR						
BHUA-05	439.84	440.00			hJs	x3	70				PR					50 mm spacing	
BHUA-05	439.88				J		40			CN	PR	SM					
BHUA-05	439.94				hJ		60				PR						
BHUA-05	440.13				hJ		85				PR						
BHUA-05	440.34	440.50			hJs	x5	65				PR					20 mm spacng	
BHUA-05	440.47	440.61			hJs	x3	70				PR					30 mm spacing	
BHUA-05	440.54				hJ		90				PR						
BHUA-05	440.78				hJ		70										
BHUA-05	440.86				J		5			CN	PR	SM					
BHUA-05	441.21				J		35			CN	PR	SM					
BHUA-05	441.32	441.43			hJs	x4	75				PR					200 mm spacing	
BHUA-05	441.43				V		75				PR			1			
BHUA-05	441.77				J		40			CN	PR	SM					
BHUA-05	442.11				hJ		5				PR						
BHUA-05	442.59	442.71			hJs	x2	75				PR					20 mm spacing	
BHUA-05	442.64				J		25			CN	PR	RF					
BHUA-05	442.98				J		30			CN	PR	RF					
BHUA-05	443.03	443.10			hJs	x2	80									20 mm spacing	
BHUA-05	443.16				hJ		70				PR						
BHUA-05	443.30				J		30			CN	PR	RF					
BHUA-05	443.34				V		60				PR			2			
BHUA-05	443.36				V		60				PR			3			
BHUA-05	443.51	443.62			hJs	x4	75				PR					30 mm spacing	
BHUA-05	443.73	443.85			V	x3	60				PR			1		30 mm spacing	
BHUA-05	443.78				J		20			CN	PR	SM					
BHUA-05	444.06				V		80				UN			2			
BHUA-05	444.10				hJ		75				PR						
BHUA-05	444.12	444.20			hJs	x2	80				UN					20 mm spacing	
BHUA-05	444.15				J		20			CN	PR	RF					
BHUA-05	444.36				J					CN	ST	RF					
BHUA-05	444.45				V		70							2			
BHUA-05	444.53				J		30			CN	PR	RF					
BHUA-05	444.60				hJ		55				PR						
BHUA-05	444.69				hJ		30				PR						
BHUA-05	444.82				hJ		30				PR						
BHUA-05	444.84	444.98			hJs	x3	75				PR					40 mm spacing	
BHUA-05	445.05				hJ		70				IR						
BHUA-05	445.09	445.21			hJs	x2	80			CN	PR					40 mm spacing	
BHUA-05	445.25				hJ		0				UN						
BHUA-05	445.26				J		30			CN	PR	SM					
BHUA-05	445.27				hJ		30				PR						
BHUA-05	445.31				hJ		0				UN						
BHUA-05	445.34				hJ		30				UN						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	445.40				hJ		90				PR						
BHUA-05	445.51				hJ		40				PR						
BHUA-05	445.52				V		70				UN			2			
BHUA-05	445.58				V		60				PR			1			
BHUA-05	445.64				J		35			CN	PR	SM					
BHUA-05	445.80				hJ		90				PR						
BHUA-05	446.30				hJ		70				PR						
BHUA-05	446.45				hJ		85				PR						
BHUA-05	446.63				hJ		65				PR						
BHUA-05	446.76	446.88			hJs	x3	65				PR					100 mm spacing	
BHUA-05	446.87	446.97			hJs	x2	70				PR					30 mm spacing	
BHUA-05	447.95				J		70			CN	ST	RF					
BHUA-05	448.18	448.30			hJs	x2	70				PR					20 mm spacing	
BHUA-05	449.07				hJ		90				PR						
BHUA-05	449.08				hJ		70				PR						
BHUA-05	449.12	449.30			hJs	x2	30				ST					20 mm spacing	
BHUA-05	449.17				hJ		0				PR						
BHUA-05	449.19				hJ		90				UN						
BHUA-05	449.24				hJ		50				PR						
BHUA-05	449.26				hJ		35				ST						
BHUA-05	449.28				hJ		45				UN						
BHUA-05	449.29				hJ		20				UN						
BHUA-05	449.31	449.43			hJs	x2	75				PR					30 mm spacing	
BHUA-05	449.36				hJ		65				PR						
BHUA-05	449.47				hJ		70				PR						
BHUA-05	449.48				hJ		10										
BHUA-05	449.53	449.68			hJs	x2	85				PR					20 mm spacing	
BHUA-05	449.58	449.78			hJs	x7	20				PR					120 mm spacing	
BHUA-05	449.90				hJ		45				PR						
BHUA-05	449.95				hJ		90				PR						
BHUA-05	449.97				hJ		30				PR						
BHUA-05	450.10				V		50				PR			2			
BHUA-05	450.33				hJ		25			CN	PR	RF				20 mm spacing	
BHUA-05	450.44				hJ		20				PR						
BHUA-05	450.56				hJ		10				PR						
BHUA-05	450.58	450.70			hJs	x2	30				PR					20 mm spacing	
BHUA-05	450.81				hJ		65				PR						
BHUA-05	451.14				hJ		55			CN	PR	RF					
BHUA-05	451.39				J		25			CN	PR	RF					
BHUA-05	451.47	451.60			hJs	x2	15				PR					20 mm spacing	
BHUA-05	451.63				J		30			CN	ST	VR					
BHUA-05	451.81	451.97			V	x4	25				UN			2		100 mm spacing	
BHUA-05	452.10				hJ		70				PR						
BHUA-05	452.23				hJ		65				UN						
BHUA-05	452.50				V		15				UN						
BHUA-05	452.55				V		75				UN			2			
BHUA-05	452.65				V		60				UN			2			
BHUA-05	452.70				J		35			CN	ST	RF					
BHUA-05	452.91				hJ		0				PR						
BHUA-05	453.16				V		60				PR			3			
BHUA-05	453.26				J		20			CN	PR	SM					
BHUA-05	453.32				hJ		30				UN						
BHUA-05	453.39				hJ		25				UN						
BHUA-05	453.42	453.60			hJs	x4	40				PR					50 mm spacing	
BHUA-05	453.56				V		50				PR			2			
BHUA-05	453.60				J		10			CN	PR	RF					
BHUA-05	453.72				J		30			CN	ST	RF					
BHUA-05	453.84				hJ		50				PR						
BHUA-05	453.96				hJ		60				PR						
BHUA-05	454.22	454.32			hJs	x2	20				PR					30 mm spacing	
BHUA-05	454.33	454.44			hJs	x2	55				PR					30 mm spacing	
BHUA-05	454.57				J		5			CN	PR	RF					
BHUA-05	454.61				hJ		45				PR						
BHUA-05	454.63				hJ		30				PR						
BHUA-05	454.67	454.76			hJs	x3	40				PR					100 mm spacing	
BHUA-05	454.96				hJ		50				PR						
BHUA-05	455.05	455.20			hJs	x4	40				PR					300 mm spacing	
BHUA-05	455.24				hJ		55				IR						
BHUA-05	455.27				hJ		70				UN						
BHUA-05	455.52				hJ		5				UN						
BHUA-05	455.67				V		35				UN			2		120 mm spacing	
BHUA-05	455.96				J		40			CN	PR	RF					
BHUA-05	456.03				hJ		30				PR						
BHUA-05	456.07				J		30			SN	PR	RF					
BHUA-05	456.11				V		30				PR			2			
BHUA-05	456.20				J		40			CN	UN	RF					
BHUA-05	456.23				J		40			CT	ST	RF					
BHUA-05	456.24				V		55				UN			2			
BHUA-05	456.48				V		40				IR			2			

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	456.61				J		25			CN	UN	RF					
BHUA-05	456.61				hJ		10				UN						
BHUA-05	456.66				V		20				UN			10			
BHUA-05	456.70				AZ		0		moderate alteration around veins and HJs								
BHUA-05	456.87				hJ		90				UN						
BHUA-05	456.93				hJ		60				UN						
BHUA-05	456.96				J		10			CN	ST	RF					
BHUA-05	457.07				hJ		40				UN						
BHUA-05	457.11				V		20				UN			2			
BHUA-05	457.20				V		20				UN						
BHUA-05	457.30				V		60				UN						
BHUA-05	457.32				hJ		60				UN						
BHUA-05	457.34				hJ		45				UN						
BHUA-05	457.39				V		65				PR			5			
BHUA-05	457.48				V		65				IR			4			
BHUA-05	457.61				V		70				IR			3			
BHUA-05	457.69				V		0				PR			4			
BHUA-05	457.76				hJ		30				PR						
BHUA-05	457.82				J		15			CN	PR	RF					
BHUA-05	457.89				J		20			CN	UN	RF					
BHUA-05	458.12				hJ		70				PR						
BHUA-05	458.38				V		80				UN			2			
BHUA-05	458.55	458.70			hJs	x2	50			CN	ST	RF				50 mm spacing	
BHUA-05	458.70				hJ		75				UN						
BHUA-05	458.77				V		50				UN			4			
BHUA-05	458.79				V		40				UN			3			
BHUA-05	459.03				V		40				UN			2			
BHUA-05	459.15				V		65				UN			10			
BHUA-05	459.38				J		30			CN	UN	RF					
BHUA-05	459.45				V		80				UN			5			
BHUA-05	459.50				J		5			CN	CU	RF					
BHUA-05	459.52				hJ		20				PR						
BHUA-05	459.54				V		70				UN			5			
BHUA-05	459.83				V		60				PR			3			
BHUA-05	459.94	460.00			hJs	x2	5				UN					10 mm spacing	
BHUA-05	460.08				hJ		65				UN						
BHUA-05	460.15				hJ		75				ST						
BHUA-05	460.28				V		85				IR			20			
BHUA-05	460.48	460.62			hJs	x2	80				ST					19 mm spacing	
BHUA-05	460.57	460.70			hJs	x2	45				UN					80 mm spacing	
BHUA-05	460.70				J		15			CN	ST	RF					
BHUA-05	460.77	460.90			Js	x3	20			CN	ST	RF				20 mm spacing	
BHUA-05	460.85				hJ		10										
BHUA-05	460.93				hJ		80										
BHUA-05	461.12				hJ		80				UN						
BHUA-05	461.23				hJ		5				PR						
BHUA-05	461.30				hJ		90				UN						
BHUA-05	461.33				V		70				UN			2			
BHUA-05	461.35				hJ		40				UN						
BHUA-05	461.50				V		40				PR			40			
BHUA-05	461.52				hJ		85				PR						
BHUA-05	461.60				hJ		75				UN						
BHUA-05	461.73				hJ		60				UN						
BHUA-05	461.78				hJ		80				ST						
BHUA-05	461.83				hJ		20										
BHUA-05	461.95	462.10			hJs	x3	50				PR					20 mm spacing	
BHUA-05	462.00				DB		0										
BHUA-05	462.13				V		50				PR			5			
BHUA-05	462.15				J		30			CN	PR	RF					
BHUA-05	462.23	462.38			hJs	x2	30				PR					150 mm spacing	
BHUA-05	462.26				hJ		25				UN						
BHUA-05	462.29				V		40				UN			2			
BHUA-05	462.40				V		50				PR			2			
BHUA-05	462.45				hJ		60				UN						
BHUA-05	462.75				J		5			CN	ST	RF					
BHUA-05	462.79				J		30			CN	ST	RF					
BHUA-05	462.84				V		60				PR			10			
BHUA-05	462.89				hJ		30				UN						
BHUA-05	462.98				V		30				UN			2			
BHUA-05	463.53				V		45				PR			5			
BHUA-05	463.55				V		40				UN			10			
BHUA-05	463.71				V		30				UN			2			
BHUA-05	463.76				V		70				UN			2			
BHUA-05	464.04				hJ		60				UN						
BHUA-05	464.13				hJ		90				UN						
BHUA-05	464.42				J		10			CN	PR	RF					
BHUA-05	464.48				hJ		70				UN						
BHUA-05	464.50				hJ		20				PR						
BHUA-05	464.56	464.70			hJs	x2	60				UN					10 mm spacing	

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	464.67				hJ		60				PR						
BHUA-05	464.88				hJ		20				PR						
BHUA-05	464.95				hJ		0				PR						
BHUA-05	465.04				J		35			SN	PR	RF					
BHUA-05	465.14				hJ		10				PR						
BHUA-05	465.24	465.40			hJs	x5	70				PR					50 mm spacing	
BHUA-05	466.40				V		50				UN			2			
BHUA-05	466.43				V		40			CN	PR			2			
BHUA-05	466.60				hJ		65				UN						
BHUA-05	466.74	466.90			hJs	x10	70				PR					450 mm spacing	
BHUA-05	467.08				V		80				UN			10			
BHUA-05	467.24				V		70				UN			15			
BHUA-05	467.29				V		70				UN			2			
BHUA-05	467.37				V		70				UN			2			
BHUA-05	467.73				hJ		75				PR						
BHUA-05	468.25				V		30		wh mi, yl alt halo		PR			1			
BHUA-05	468.56				V		70		wh mi, yl alt halo		UN			5			
BHUA-05	468.63				hJ		70				PR						
BHUA-05	468.75				V		70				UN			3			
BHUA-05	468.86				V		55				PR			3			
BHUA-05	468.92				hJ		0				PR						
BHUA-05	469.08				hJ		20				PR						
BHUA-05	469.11				hJ		40				PR						
BHUA-05	469.25				hJ		70				UN						
BHUA-05	469.31				hJ		20				PR						
BHUA-05	469.56				hJ		45				PR						
BHUA-05	469.59				J		10			CN	PR	RF					
BHUA-05	469.66				hJ		20				PR						
BHUA-05	470.04	470.10			hJs	x2	70				PR					250 mm spacing	
BHUA-05	470.06				hJ		10		gy mi		UN						
BHUA-05	470.10				hJ		65		gy mi		UN						
BHUA-05	470.11				hJ		80				PR						
BHUA-05	470.28				hJ		70		gy mi		UN						
BHUA-05	470.35				hJ		40		gy mi		PR						
BHUA-05	470.36				hJ		20		gy mi		PR						
BHUA-05	470.38				hJ		40				PR						
BHUA-05	470.45				hJ		60		gy mi		PR						
BHUA-05	470.46				J		20			CN	PR						
BHUA-05	470.50	470.70			hJ	x5	20	30	gy mi		PR						
BHUA-05	470.81				J		15		gy mi	CN	UN						
BHUA-05	470.96				hJ		40		gy mi		PR						
BHUA-05	471.00	471.30			hJs	x7	50	70	gy mi		PR						
BHUA-05	471.10	471.40			hJ		85	90	gy mi		UN						
BHUA-05	471.42				hJ		60		gy mi		PR						
BHUA-05	471.50				hJ		75		gy mi		PR						
BHUA-05	471.55	471.75			hJ		65		gy mi		UN						
BHUA-05	471.80	472.00			hJ		65		gy mi		PR						
BHUA-05	472.00	472.70			hJ	x6	60	70	gy mi		PR						
BHUA-05	472.85	473.00			hJ	x3	45		gy mi		PR						
BHUA-05	473.00	473.60			hJs	x6	60	70	gy mi		PR						
BHUA-05	473.70	474.00			hJs	x4	40	50	gy mi		PR						
BHUA-05	474.00	475.25			hJs	>30	60	70	gy mi		PR						
BHUA-05	475.40				hJ		50		gy mi		PR						
BHUA-05	475.50				hJ		80		gy mi		PR						
BHUA-05	475.56	475.65			hJ	x2	15		gy mi		PR						
BHUA-05	475.60				hJ		70		gy mi		PR						
BHUA-05	475.65	475.70			hJs	x3	40	50	gy mi		PR						
BHUA-05	475.80	476.00			hJs	x3	5	10	gy mi		PR						
BHUA-05	476.05	476.15			hJs	x2	30	40	gy mi		PR						
BHUA-05	476.25				hJ		70		gy mi		PR						
BHUA-05	476.32				hJ		50		gy mi		PR						
BHUA-05	476.35				hJ		50		gy mi		PR						
BHUA-05	476.36				hJ		20		gy mi		PR						
BHUA-05	476.45				hJ		60		gy mi		PR						
BHUA-05	476.47				hJ		30		gy mi		PR						
BHUA-05	476.60	476.70			hJs	x3	10	30	gy mi		PR						
BHUA-05	476.68	476.73			hJs	x3	40	50	gy mi		PR						
BHUA-05	476.85				hJ		50		gy mi		PR						
BHUA-05	476.90				hJ		80		gy mi		PR						
BHUA-05	477.10	477.20			hJs	x3	70	80	gy mi		PR						
BHUA-05	477.20	477.40			hJs	x8	10	20	gy mi		PR						
BHUA-05	477.50				hJ		30				IR						
BHUA-05	477.53				hJ		60				UN						
BHUA-05	477.64				hJ		30		gy mi		UN						
BHUA-05	477.75				hJ		50		gy mi		UN						
BHUA-05	477.90				J		30			CN	UN						
BHUA-05	478.15				hJ		60		gy mi		UN						
BHUA-05	478.48				J	/DB	25			CN	PR						
BHUA-05	478.72				hJ		65		gy mi		PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	478.75				hJ		30		gy mi		PR						
BHUA-05	479.03				hJ		30		gy mi		PR						
BHUA-05	479.08	479.15			hJs	x3	60		gy mi		PR						
BHUA-05	479.17				hJ		20		gy mi		PR						
BHUA-05	479.30	479.40			hJs		85	90	gy mi		PR						
BHUA-05	479.85				hJ		30		gy mi		UN						
BHUA-05	480.20	480.28			hJs	x3	70		gy mi		PR						
BHUA-05	480.28				hJ		75		gy mi		PR						
BHUA-05	480.32				hJ		20		gy mi		PR						
BHUA-05	480.35				hJ		50		gy mi		PR						
BHUA-05	480.38				J		20			CN	PR						
BHUA-05	480.50				hJ		60		gy mi		PR						
BHUA-05	480.50	480.65			hJs	x4	30	35	gy mi		PR						
BHUA-05	480.55				hJ		60		gy mi		PR						
BHUA-05	480.68	481.00			hJs	x4	55	60	gy mi		PR						
BHUA-05	480.86				hJ		60		gy mi		UN						
BHUA-05	481.45				hJ		40		gy mi		PR						
BHUA-05	481.70	481.75			hJs	x2	50	60	gy mi		PR						
BHUA-05	481.96				hJ		40		gy mi		PR						
BHUA-05	482.05				hJ		35				PR						
BHUA-05	482.25				hJ		45		pale wh gn		PR						
BHUA-05	482.57	482.58			V		50		wh Qtz vein mi		PR						
BHUA-05	482.87				hJ		55		wh mi Qtz		PR						
BHUA-05	483.07				hJ												
BHUA-05	483.25				hJ		60		pl gy		PR						
BHUA-05	483.80				J	/DB	20		pl gy		PR	SM					
BHUA-05	484.05				hJ		70		pl gy		PR						
BHUA-05	484.12				hJ		20				PR						
BHUA-05	484.25				hJ		70		pl gy		PR						
BHUA-05	484.45				hJ		90		pl gy		UN						
BHUA-05	484.50				hJ		40		pl gy		UN						
BHUA-05	484.60				hJ		90		pl gy		IR						
BHUA-05	484.76				hJ		60		pl gy		UN						
BHUA-05	484.90				hJ		60		pl gy		PR						
BHUA-05	485.80				hJ		50		pl gy		PR						
BHUA-05	486.14				hJ		60		pl gy		PR						
BHUA-05	486.17				hJ		60		pl gy		PR						
BHUA-05	486.25				hJ		50		pl gy		PR						
BHUA-05	486.35				hJ		70		pl gy		PR						
BHUA-05	486.55				J		0		pl gy	SN	PR	RF					
BHUA-05	486.57				hJ		30		pl gy		PR						
BHUA-05	486.62				hJ		30		pl gy		PR						
BHUA-05	486.65				hJ		35		pl gy		PR						
BHUA-05	486.90				hJ		50		pl gy		PR						
BHUA-05	487.24				hJ		30		pl gy		PR						
BHUA-05	487.28				hJ		40		pl gy		PR						
BHUA-05	487.35				hJ		50		pl gy		PR						
BHUA-05	487.45				hJ		80		pl gy		PR						
BHUA-05	487.54				hJ		60		pl gy		PR						
BHUA-05	487.62				hJ		75		pl gy		PR						
BHUA-05	487.72				hJ		35		pl gy		PR						
BHUA-05	487.80				hJ		40		pl gy		PR						
BHUA-05	487.95				hJ		70		pl gy		PR						
BHUA-05	488.05				hJ		70		pl gy		PR						
BHUA-05	488.18				hJ		70				PR						
BHUA-05	488.35				hJ		65		pl gy		PR						
BHUA-05	488.40				hJ		50		pl gy		PR						
BHUA-05	488.60				hJ		65		pl gy		UN						
BHUA-05	488.92				hJ		25		pl gy		PR						
BHUA-05	489.10				hJ		40		pl gy		PR						
BHUA-05	489.22				hJ		5		pl gy		PR						
BHUA-05	489.60				hJ		80		pl gy		PR						
BHUA-05	489.62				hJ		50		pl gy		PR						
BHUA-05	489.80	489.95			hJ	x4	70	80	pl gy, yl		PR			2			
BHUA-05	490.05				hJ		30		pl gy		UN						
BHUA-05	490.16	490.75			hJ	x3	60	80	pl gy		UN						
BHUA-05	490.44				hJ		50		pl gy		PR						
BHUA-05	490.50				hJ		65		pl gy, yl		PR						
BHUA-05	490.73				hJ		70		pl gy, yl		PR						
BHUA-05	490.87				hJ		70		pl gy, yl		PR						
BHUA-05	490.90				hJ		80		pl gy, yl		PR						
BHUA-05	491.05				hJ		80		pl gy, yl		PR						
BHUA-05	491.10				hJ		75		pl gy, yl		PR						
BHUA-05	491.48				hJ	x2	70		pl gy, yl		PR						
BHUA-05	491.60				hJ		55		pl gy, yl		PR						
BHUA-05	491.80				hJ		80		pl gy, yl		UN						
BHUA-05	492.20	492.30			hJ	x3	75	80	pl gy, yl		PR						
BHUA-05	492.43				J		10		pl gy, yl	CN	PR						
BHUA-05	492.46				hJ		15		pl gy, yl		PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	492.58				hJ		25		pl gy, yl		PR						
BHUA-05	492.75				hJ		70		pl gy, yl		PR						
BHUA-05	492.78				hJ		50		pl gy, yl		PR						
BHUA-05	492.92				hJ		80	90	pl gy, yl		PR						
BHUA-05	493.08				hJ		35		pl gy, yl		PR						
BHUA-05	493.15				hJ		60		pl gy, yl		PR						
BHUA-05	493.20	493.50			hJ		70	90	pl gy, yl		PR						
BHUA-05	493.43	493.85			hJ		80	90	pl gy, yl		UN						
BHUA-05	493.52				hJ		60		pl gy, yl		PR						
BHUA-05	493.60				hJ		40		pl gy, yl		PR						
BHUA-05	493.60	493.73			hJ	x2	75	85	pl gy, yl		PR						
BHUA-05	493.80				hJ		65		pl gy, yl		PR						
BHUA-05	493.80	493.90			hJ	x3	40	55	pl gy, yl		PR						
BHUA-05	494.05	494.20			hJ	x5	35	55	pl gy, yl		PR						
BHUA-05	494.50				hJ		65		pl gy, yl		PR						
BHUA-05	494.70				hJ		70		pl gy, yl		PR						
BHUA-05	495.17				hJ		80		pl gy, yl		PR						
BHUA-05	495.40				hJ		80	90	pl gy, yl		PR						
BHUA-05	495.57				hJ		80		pl gy, yl		PR						
BHUA-05	495.67	495.72			DB	x2											
BHUA-05	495.92				hJ		70		pl gy, yl		PR						
BHUA-05	496.00	496.70			hJ	x2	80	90	pl gy, yl		PR						
BHUA-05	496.40	496.55			hJ	x3	70	75	pl gy, yl		PR						
BHUA-05	496.67				hJ		60		pl gy, yl		PR						
BHUA-05	496.86				CO		20		gy mi		PR						
BHUA-05	496.90	496.95			hJ	x3	30	40	pl gy, yl		PR						
BHUA-05	497.00	498.00			hJ	>25	10	25	pl gy, yl		UN						
BHUA-05	497.32				J		65			CN	PR	SM					
BHUA-05	498.00	499.78			hJ	>30	10	30	pl gy, yl		UN						
BHUA-05	499.05				hJ		90		pl gy, yl		UN						
BHUA-05	499.20				hJ		60		pl gy, yl		UN						
BHUA-05	499.70				hJ		60		pl gy, yl		PR						
BHUA-05	499.78				hJ		5		pl gy, yl		PR						
BHUA-05	499.85	499.95			hJ	x4	20	30	pl gy, yl		PR						
BHUA-05	499.86				hJ		75		pl gy, yl		PR						
BHUA-05	500.05	500.12			hJ	x2	30	40	pl gy, yl		PR						
BHUA-05	500.23				hJ		50		pl gy, yl		PR						
BHUA-05	500.37				hJ		25		pl gy, yl		PR						
BHUA-05	500.38				hJ		55		pl gy, yl		PR						
BHUA-05	500.55				hJ		85		pl gy, yl		PR						
BHUA-05	500.70				hJ		50		pl gy, yl		PR						
BHUA-05	500.82				hJ		50		pl gy, yl		PR						
BHUA-05	500.85				hJ		60		pl gy, yl		PR						
BHUA-05	500.97				hJ		20		pl gy, yl		PR						
BHUA-05	501.08				hJ		50		pl gy, yl		PR						
BHUA-05	501.22	501.25			hJ	x2	50	60	pl gy, yl		PR						
BHUA-05	501.43				J		15			SN	PR						
BHUA-05	501.45	501.65			hJ	x3	20	40	pl gy, yl		PR						
BHUA-05	501.87	501.89			hJ	x2	30	35	pl gy, yl		PR						
BHUA-05	501.92				hJ		70		pl gy, yl		PR						
BHUA-05	502.05				hJ		60		pl gy, yl		PR						
BHUA-05	502.15	502.50			hJ		80	90	pl gy, yl		UN						
BHUA-05	502.60	503.00			hJ	x4	20	35	pl gy, yl		UN						
BHUA-05	502.88				hJ		85		pl gy, yl		PR						
BHUA-05	503.00	503.20			hJ	x3	25	40	pl gy, yl		PR						
BHUA-05	503.15				hJ		70				PR-UN						
BHUA-05	503.30				J		10			CN	PR						
BHUA-05	503.35	503.90			hJ	x10	20	35	pl gy, yl		PR						
BHUA-05	503.95				hJ		70		pl gy, yl		PR						
BHUA-05	504.00				hJ		20		pl gy, yl		PR						
BHUA-05	504.03				hJ		10		pl gy, yl		PR						
BHUA-05	504.05				hJ		50		pl gy, yl		PR						
BHUA-05	504.25				hJ		20		pl gy, yl		PR						
BHUA-05	504.46				hJ		40		pl gy, yl		PR						
BHUA-05	504.47				hJ		40		pl gy, yl		PR						
BHUA-05	504.50	504.50			hJ	x10	20	40	pl gy, yl		PR						
BHUA-05	504.60				hJ		60		pl gy, yl		UN						
BHUA-05	504.60	506.00			hJ	>20	30	40	pl gy, yl		UN						
BHUA-05	504.80	504.96			V		40				PR			11			
BHUA-05	504.82				hJs	x8	0				IR						
BHUA-05	504.83				hJ		90				UN						
BHUA-05	504.84				hJ		30				PR						
BHUA-05	504.91				hJ		45				PR						
BHUA-05	504.93				hJ		25				PR						
BHUA-05	504.94				hJ		80				UN						
BHUA-05	505.01				hJ		80				PR						
BHUA-05	505.03				hJ		30				PR						
BHUA-05	505.07				hJ		80				UN						
BHUA-05	505.08				hJ		30				UN						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	505.11				hJ		70				UN						
BHUA-05	505.13				hJ		30				UN						
BHUA-05	505.14				hJ		30				UN		2616				
BHUA-05	505.15				J		10			CN	UN						
BHUA-05	505.16				hJ		40				PR						
BHUA-05	505.18				J		10			SN	IR	RF					
BHUA-05	505.21				J		0			CN	IR						
BHUA-05	505.22				J		30			CN	PR	SM					
BHUA-05	505.27				J		70			CN	PR						
BHUA-05	505.33				hJ		90				PR						
BHUA-05	505.35				hJ		90				PR						
BHUA-05	505.43				V		30				UN			6			
BHUA-05	505.43				V		20				UN			16			
BHUA-05	505.55	505.70			hJs	x2	80				PR						
BHUA-05	505.58				hJ		40				PR		2882				
BHUA-05	505.65	505.85			hJs	x10	10				PR						
BHUA-05	505.83				V		50				PR			3			
BHUA-05	505.90				hJ		60				PR						
BHUA-05	505.91				hJ		80			CN	IR						
BHUA-05	505.97				hJ		10				PR						
BHUA-05	506.02				hJ		20				PR						
BHUA-05	506.08				hJ		70				PR						
BHUA-05	506.09				hJ		20				PR						
BHUA-05	506.22				hJ		40				PR						
BHUA-05	506.40				V		70				PR			2			
BHUA-05	506.41				hJ		0				PR						
BHUA-05	506.47				hJ		50				PR						
BHUA-05	506.50				hJ		20				PR						
BHUA-05	506.57				J		70			SN	PR	SM					
BHUA-05	506.60				hJ		50				PR						
BHUA-05	506.72				hJ		70				PR						
BHUA-05	506.74				hJ		20				PR						
BHUA-05	506.77	506.90			hJs	x3	10				IR						
BHUA-05	506.92	507.20			hJs	x4	10				IR						
BHUA-05	507.03				V		10				PR			2			
BHUA-05	507.08	507.12			V	x2	10				IR			2			
BHUA-05	507.17				V		60				IR			2			
BHUA-05	507.25	507.35			hJs	x7	10				PR						
BHUA-05	507.74				V		70				IR			2			
BHUA-05	507.85				hJ		60				PR						
BHUA-05	507.93				hJ		70				PR						
BHUA-05	507.96				hJ		70				PR						
BHUA-05	508.09	508.20			hJs	x4	80				PR						
BHUA-05	508.26	508.40			hJs	x3	80				PR						
BHUA-05	508.36				V		70				PR			3			
BHUA-05	508.38	508.48			hJs	x6	40				PR						
BHUA-05	508.52				hJ		40				PR						
BHUA-05	508.53	508.78			hJs	x12	10				PR						
BHUA-05	508.74				V		80				PR			2			
BHUA-05	508.79				hJ		20				PR						
BHUA-05	508.84	508.98			hJs	x10	10				PR						
BHUA-05	508.87				hJ		50				PR						
BHUA-05	508.93				V		80				PR			2			
BHUA-05	508.94				hJ		20				PR						
BHUA-05	508.96				hJ		80				IR						
BHUA-05	509.04				V		50				PR			22			
BHUA-05	509.07	509.30			hJs	x14	10				PR						
BHUA-05	509.14				V		70				PR						
BHUA-05	509.24				hJ		70				PR						
BHUA-05	509.37				hJ		70				PR						
BHUA-05	509.39				hJ		70				PR						
BHUA-05	509.46	509.67			hJs	x7	10				PR						
BHUA-05	509.61				hJ		60				PR						
BHUA-05	509.64				hJ		60				PR						
BHUA-05	509.74				V		80				PR						
BHUA-05	509.82	509.98			hJs	x10	10				PR						
BHUA-05	509.95				J		20			SN	ST	RF					
BHUA-05	509.98				hJ		60				PR		2498				
BHUA-05	510.04				hJ		60				PR						
BHUA-05	510.12				hJ		40				PR		2280				
BHUA-05	510.14				hJ		60				PR						
BHUA-05	510.16	510.38			hJs	x4	10				PR						
BHUA-05	510.24				J		50			CN	ST	RF					
BHUA-05	510.28	510.40			hJs	x2	10				PR						
BHUA-05	510.42				hJ		60				PR						
BHUA-05	510.46				J		40			CN	PR	RF					
BHUA-05	510.62	510.70			hJs	x2	70				PR						
BHUA-05	510.73				hJ		70				PR						
BHUA-05	510.85				hJ		80				PR						

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Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	510.88	510.97			hJs	x4	20				PR						
BHUA-05	510.92				hJ		70				PR						
BHUA-05	511.03				hJ		0				PR						
BHUA-05	511.04	511.30			hJs	x5	10				PR						
BHUA-05	511.17				hJ		10				IR						
BHUA-05	511.32				J		0			CN	IR	RF					
BHUA-05	511.32	511.50			hJs	x6	40				IR						
BHUA-05	511.53				hJ		30				PR						
BHUA-05	511.65				hJ		80				PR						
BHUA-05	511.79	511.90			hJs	x4	70				PR						
BHUA-05	511.81				hJ		80				PR						
BHUA-05	511.92				hJ		20				PR						
BHUA-05	511.94				J		40			CN	PR	RF					
BHUA-05	511.97				hJ		70				PR						
BHUA-05	512.05				J		40			CN	PR	RF					
BHUA-05	512.05	512.20			hJs	x8	40				IR						
BHUA-05	512.15				hJ		70				PR						
BHUA-05	512.25				hJ		80			CT	PR						
BHUA-05	512.33	512.50			hJs	x4	70				PR						
BHUA-05	512.38				J		70			CN	ST	RF					
BHUA-05	512.48				hJs		20				IR						
BHUA-05	512.52				hJ		10			CN	PR	RF					
BHUA-05	512.74	512.97			hJs	x6	20				IR						
BHUA-05	512.89				hJ		70				PR						
BHUA-05	512.97				hJ		30				PR						
BHUA-05	513.06				hJ		80				PR						
BHUA-05	513.12				J		10			CN		RF					
BHUA-05	513.19	513.30			hJs	x5	10				PR						
BHUA-05	513.29				J		20			CN	PR	SM					
BHUA-05	513.30				J		70			CT	IR	RF					
BHUA-05	513.35				V		80				IR			3			
BHUA-05	513.64	513.84			hJs	x2	80				PR						
BHUA-05	513.85				hJ		80				PR						
BHUA-05	513.86				hJ		90				PR						
BHUA-05	513.93				hJ		70				PR						
BHUA-05	513.97	514.20			hJs	x4	80				PR						
BHUA-05	514.02				hJ		80				PR						
BHUA-05	514.03				hJ		30				PR						
BHUA-05	514.04				hJ		70				PR						
BHUA-05	514.06				hJ		50				PR						
BHUA-05	514.15				hJ		80				PR						
BHUA-05	514.28				hJ		80				PR						
BHUA-05	514.47				hJ		80				PR			5			
BHUA-05	514.50				hJ		80				IR			5			
BHUA-05	514.57				hJ		80				PR						
BHUA-05	514.65				hJ		30				PR						
BHUA-05	514.71				hJ		30				PR						
BHUA-05	514.91				hJ		50				PR						
BHUA-05	514.93				hJ		30				PR						
BHUA-05	514.94				hJ		70				PR						
BHUA-05	514.96				hJ		60				PR						
BHUA-05	515.04				hJs		30				PR						
BHUA-05	515.07				hJ		70				PR						
BHUA-05	515.13				hJ		30				PR						
BHUA-05	515.15				hJs		90				PR						
BHUA-05	515.29	515.40			hJs	x2	90				PR						
BHUA-05	515.32	515.45			hJ	x2	10				PR						
BHUA-05	515.35				hJ		60				PR						
BHUA-05	515.40				hJ		40				PR						
BHUA-05	515.41				hJ		50				CU						
BHUA-05	518.02				V		40				IR						
BHUA-05	518.04				hJ		60				PR						
BHUA-05	518.11				hJ		70				PR						
BHUA-05	518.17				hJ		50				UN						
BHUA-05	518.25				hJ		10				PR						
BHUA-05	518.35				hJ		70				PR						
BHUA-05	518.37				hJ		70				PR						
BHUA-05	518.38				hJ		80				UN						
BHUA-05	518.42				hJ		50				UN						
BHUA-05	518.43				hJ		50				PR						
BHUA-05	518.45				hJ		80				PR						
BHUA-05	518.49				hJ		80				PR						
BHUA-05	518.52				hJ		50				PR						
BHUA-05	518.54				J		20			CN	PR	SM					
BHUA-05	518.56				hJ		40				IR						
BHUA-05	518.59				J		80			CN	IR	SM					
BHUA-05	518.60				hJ		50				IR						
BHUA-05	518.71				V		70				IR						
BHUA-05	518.78				J		5			CN	ST	SM					

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	518.94				hJ		60				CU						
BHUA-05	518.97				hJ		70				PR						
BHUA-05	518.98				hJ		60				PR						
BHUA-05	519.08				hJ		80				PR						
BHUA-05	519.18				J		20			CN	PR	SM					
BHUA-05	519.25				hJ		50				PR						
BHUA-05	519.30				J		80			CN	PR	SM					
BHUA-05	519.32	519.43			hJs	x3	40				PR						
BHUA-05	519.36				hJ		90				PR						
BHUA-05	519.38				hJ		40		pale gy		PR						
BHUA-05	519.44				hJ		10		pale gy		PR						
BHUA-05	519.45				hJ		50		pale gy		PR						
BHUA-05	519.48				hJ		90		pale gy		PR						
BHUA-05	519.55	519.80			hJ		70	80	pale gy		PR						
BHUA-05	519.70				hJ		40		pale gy		PR						
BHUA-05	519.74				hJ		40				PR	RF					
BHUA-05	519.90				hJ		50		gy mi		PR						
BHUA-05	520.06				hJ		40		gy mi		PR						
BHUA-05	520.15	521.00			hJ		90		gy mi		UN						
BHUA-05	520.30	520.40			hJ	x3	40	50	gy mi		UN						
BHUA-05	520.91				hJ		45		gy mi		UN						
BHUA-05	521.25				J		45			SN	PR	RF					
BHUA-05	521.35	521.65			hJs	>30	20	40	gy mi		PR						numerous intersecting healed joints
BHUA-05	521.70	522.00			hJs	>30	50	70	gy mi		PR						
BHUA-05	521.95				hJ		50		gy mi		UN						
BHUA-05	522.05	524.10			hJs	>30	60	80	gy mi		UN						numerous healed joints
BHUA-05	522.06				hJ		35		gy mi		PR						
BHUA-05	522.06	522.10			hJs	x4	30	40	gy mi		PR						
BHUA-05	522.20				J		20		gy mi	CN	PR	RF					
BHUA-05	522.28				hJ		40		gy mi		PR						
BHUA-05	522.33				J		40		pale gy-br	VN	PR	RF					
BHUA-05	522.60				J		60		pale gy-br	VN	PR	RF					
BHUA-05	522.70				J		65		pale gy-br	VN	PR	RF					
BHUA-05	522.80				DB												
BHUA-05	522.80	523.00			hJs	x5	30	45	pale br gy		PR						
BHUA-05	523.10				J	x2	65	75	pale br gy	SN	PR	RF					
BHUA-05	523.26	523.36			hJs	>5	40	50	pale br gy		PR						
BHUA-05	523.35				J		50		pale br gy	SN	PR						
BHUA-05	523.40				J		10			CN	PR						
BHUA-05	523.50				J		50		pale br gy	VN	PR						
BHUA-05	523.87				J		20		pale br gy	VN	PR	RF					
BHUA-05	524.00	524.07			AZ												
BHUA-05	524.25				J		55			CN	PR	RF					
BHUA-05	524.30				hJ		60		pale br gy		PR						
BHUA-05	524.40				hJ		50		pale br gy		PR						
BHUA-05	524.41	524.60			J		60		pale br gy	VN	PR	RF					
BHUA-05	524.52				J		10			SN	PR	RF					
BHUA-05	524.65				hJ		70		pale gy		PR						
BHUA-05	524.70				hJ		60		pale gy		UN						
BHUA-05	524.80	525.00			hJ		70		pale gy		PR						
BHUA-05	525.00	525.10			hJ		80	90	pale gy		UN						
BHUA-05	525.05				hJ		30		pale gy		UN						
BHUA-05	525.10				J		30		br mi	VN	PR	RF					
BHUA-05	525.15	525.40			hJs	x2	60	70	wh mi		PR						
BHUA-05	525.20	525.35			hJ	x5	20	30	wh mi		PR						
BHUA-05	525.50	526.00			hJ		70	90	wh mi		PR						
BHUA-05	525.65				J		20		br mi	SN	PR	RF					
BHUA-05	525.85				J		30		gy mi	SN	PR	RF					
BHUA-05	525.90				hJ		40		br gy mi		PR						
BHUA-05	525.93				J		50			CN	PR	RF					
BHUA-05	526.05				hJ		85		br gy mi		PR						
BHUA-05	526.12				hJ		60		br gy mi		PR						
BHUA-05	526.12	526.72			hJ		70	80	wh br mi		UN						
BHUA-05	526.17				hJ		30		wh br mi		UN						
BHUA-05	526.40	526.50			hJs	x5	30	40	wh br mi		UN						
BHUA-05	526.57				J		20		wh br mi	VN	UN	RF					
BHUA-05	526.75				J		70		wh br mi	SN	UN	RF					
BHUA-05	526.90	527.00			J		85		pale br	VN	PR	RF					
BHUA-05	527.00	527.30			J		70	80	pale br	VN	PR	RF					
BHUA-05	527.14				J		20		pale br	SN	PR	RF					
BHUA-05	527.30				J		20		pale br	SN	PR	RF					
BHUA-05	527.30	527.40			hJ	x2	75	90	pale br		UN						
BHUA-05	527.45				J		30		pale br	SN	PR	RF					
BHUA-05	527.65				hJ		40		pale br		PR						
BHUA-05	527.65	527.77			J	x4	60	70	pale br	SN	PR	RF					
BHUA-05	527.90	528.45			J		65			CN	PR	RF					
BHUA-05	528.42				J		5			CN	UN						
BHUA-05	528.45				V	/J	60		wh	VN	PR						
BHUA-05	528.48				hJ		50		wh, gy		PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	528.50	528.75			J		70	80		CN	UN						
BHUA-05	528.52	528.65			hJs	>5	40	60	wh gy		UN						
BHUA-05	528.70	528.80			DB												
BHUA-05	528.80				J		5		br, wh	VN	IR	RF					
BHUA-05	528.80	529.18			J		85		gy, br, wh, or	VN	UN	RF					
BHUA-05	529.08				J		60		br	VN	UN	RF					
BHUA-05	529.12	529.25			hJ		75		pale br		PR						
BHUA-05	529.13				J		60		pale br	VN	PR	RF					
BHUA-05	529.22				J		5			CN	IR	RF					
BHUA-05	529.30	529.45			hJ	x2	40		pale br gy		PR						
BHUA-05	529.58				J		30		pale br gy	VN	UN	RF					
BHUA-05	529.60				hJ		60		pale br gy		PR	RF					
BHUA-05	529.75				hJ		40		pale br gy		PR	RF					
BHUA-05	529.83				J		60			SN	PR	RF					
BHUA-05	529.90	530.45			J		85	90	pale wh gy	SN	PR	RF					
BHUA-05	530.08	530.15			hJ		20	30	pale gy wh		PR						
BHUA-05	530.21	530.50			J		45	90	pale gy wh	SN	UN	RF					
BHUA-05	530.30	530.60			hJ	x4	60		pale gy wh		PR						
BHUA-05	530.52				J		60			CN	PR	RF					
BHUA-05	530.65				CO		65		wh gy mi		PR						
BHUA-05	530.80				hJ		50				UN						
BHUA-05	531.83				J		5			SN	UN						
BHUA-05	532.00	532.25			J	x3	5	10		SN	UN	RF					
BHUA-05	533.21				J		0		gravel		IR	RF					strongly deformed low strength
BHUA-05	533.40				J		0		gravel		IR	RF					
BHUA-05	533.75				J		0		gravel		IR	RF					
BHUA-05	535.50	535.70			J	x8	5	15		SN	PR	RF					
BHUA-05	535.72	535.82			J		60			SN	PR	RF					
BHUA-05	535.75	535.85			J	x5	10	20		SN	PR	RF					
BHUA-05	535.75	536.42			AZ				gy mi								multiple defects, generally sub-vertical, 0-10mm spacing
BHUA-05	535.80	540.00			SZ		50	70	wh, gy	SN	UN	RF					minor shearing, 1-10mm sub-vertical deflection, highly fractured, gravelled and wedged host rock, 10-30mm defect spac
BHUA-05	535.82	536.45			SZ		65										brecciated zone, healed, sub-vertical shearing
BHUA-05	536.03	536.14			V		75		wh mi		UN						
BHUA-05	536.12				J		70		wh mi	CT	UN	RF					
BHUA-05	536.25	536.40			J		65		gy mi	CT	UN	RF					
BHUA-05	536.47	536.53			J		0	90		CN	ST	RF					
BHUA-05	536.50	536.71			hJ	x2	45	90	gy mi		ST						2mm
BHUA-05	536.58				hJ		15		gy mi		CU						5mm
BHUA-05	536.72				hJ		10		gy mi		CU						
BHUA-05	536.72	536.82			J		60		gy mi	SN	UN	RF					
BHUA-05	536.80	536.92			J		70		gy mi	SN	UN	RF					
BHUA-05	536.80	538.30			FZ		50	80	gy mi		IR	RF					multiple defects, generally high angle, 1-10mm shearing, 10-30mm defect spacing
BHUA-05	536.98	537.13			J		70		gy mi	SN	UN	RF					
BHUA-05	537.07	537.25			J		75		gy mi	SN	UN	RF					
BHUA-05	537.10				J		50		gy mi	SN	UN	RF					
BHUA-05	537.15	537.28			J		70		gy mi	SN	UN	RF					
BHUA-05	537.16				J		10		gy mi	SN	UN	RF					
BHUA-05	537.19				hJ		30		gy mi		CU						
BHUA-05	537.23				hJ		20		gy mi		PR						
BHUA-05	537.25	537.31			J		60			CN	ST	RF					
BHUA-05	537.32	537.41			J		60		gy mi	SN	PR	SM					
BHUA-05	537.33	537.40			hJ		80		gy mi		UN						
BHUA-05	537.35	537.53			J		70		gy mi	SN	UN	SM					
BHUA-05	537.42				hJ		15		gy mi		CU						
BHUA-05	537.45				hJ		45		gy mi		PR						
BHUA-05	537.47	537.56			J		70		gy mi	SN	UN	SM					
BHUA-05	537.51				hJ		25		gy mi		UN						
BHUA-05	537.53				hJ		50		gy mi		UN						
BHUA-05	537.56	537.81			FZ				gy mi	SN	IR	RF					
BHUA-05	537.72	538.00			V		70		gy mi		PR						
BHUA-05	537.86				J		0		gy mi	SN	UN	RF					
BHUA-05	537.96				J		15		gy mi	SN	PR	RF					
BHUA-05	538.00	538.28			FZ		40	80	gy mi	SN	PR	RF					
BHUA-05	538.02	538.27			V		75		wh mi		PR						
BHUA-05	538.20	538.38			AZ				gy mi		IR						multiple defects, various angles, 1-5mm width, 0-10mm defect spacing
BHUA-05	538.20	538.40			J		70		gy mi	SN	UN	RF					
BHUA-05	538.31				J		10		gy mi	SN	UN	RF					
BHUA-05	538.31	538.43			J		75		gy mi	SN	UN	RF					
BHUA-05	538.33	538.88			J		80		gy mi	SN	UN	RF					
BHUA-05	538.42				J		20			CN	PR	SM					
BHUA-05	538.45	538.51			J		50		gy mi	VN	UN	SM					
BHUA-05	538.51				hJ		10	25	gy mi		UN						
BHUA-05	538.51	538.62			hJ	x2	75		gy mi		UN						
BHUA-05	538.58				J		20			CN	ST	RF					
BHUA-05	538.60	538.65			hJ	x3	40	50	gy mi		UN						
BHUA-05	538.66	538.74			J		30			CN	ST	RF					
BHUA-05	538.71				hJ		20		gy mi		UN						
BHUA-05	538.73	538.92			J		75	70	gy mi	SN	PR	SM					
BHUA-05	538.77				hJ		20		gy mi		UN						

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Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	538.79	538.94			J		70			CN	UN	RF					
BHUA-05	538.87	539.00			hJ	x3	75		gy mi		UN						
BHUA-05	538.96	539.98			J		85	90	wh mi	CT	UN	RF					
BHUA-05	539.11				DB												
BHUA-05	539.17	539.29			hJ		80		gy mi		UN						
BHUA-05	539.18				DB												
BHUA-05	539.18	539.52			hJ		80		gy mi		UN						
BHUA-05	539.23	539.25			DB	x2											
BHUA-05	539.42				DB												
BHUA-05	539.45	539.64			J		75			CN	UN	RF					
BHUA-05	539.51	539.53			DB	x2											
BHUA-05	539.60	539.99			AZ						IR						multiple defects, various angles, gy mi, 1-10mm width, 0-10mm defect spacing, rare gy mi alt halo up to 10mm
BHUA-05	539.71	539.85			J		85	90	gy mi	SN	UN	RF					
BHUA-05	539.75	539.87			hJ		70		gy mi		PR						
BHUA-05	539.76				DB												
BHUA-05	539.86	540.00			J		70		gy mi	SN	PR	RF					
BHUA-05	539.96	540.06			J		70			CN	PR	SM					
BHUA-05	539.98	540.20			J		85		gy mi	VN	PR	RF					
BHUA-05	540.10	540.31			hJ		90		gy mi		UN						
BHUA-05	540.20				hJ		40		gy mi		UN						
BHUA-05	540.20	540.31			J		90		closed	CN	PR						
BHUA-05	540.24	540.28			hJ		50		gy mi		UN						
BHUA-05	540.29	540.35			J		50		closed	CN	UN						
BHUA-05	540.37	540.82			hJs		60	80	gy mi		UN						10-30mm defect spacing
BHUA-05	541.15				hJ		65		wh, gy		PR						
BHUA-05	541.25				hJ	x2	65		wh, gy		PR						
BHUA-05	541.50				J		60		wh, gy	VN	PR						
BHUA-05	541.55	541.65			hJ	x4	50	60	wh, gy		PR						
BHUA-05	541.61				J		30			SN	PR						
BHUA-05	541.85				J		30			SN	PR						
BHUA-05	542.15				J		70		gy	SN	PR	RF					
BHUA-05	542.32				J		15		gy	SN	PR	RF					
BHUA-05	542.40				hJ		80		gy		PR						
BHUA-05	542.57				J		15		'	SN	PR	RF					
BHUA-05	542.67	543.00			hJ	x4	60	70	wh, pale gy		UN						
BHUA-05	543.10	543.25			hJ	x3	60	70	wh, pale gy		PR						
BHUA-05	543.20				hJ		15		wh, pale gy		UN						
BHUA-05	543.28	543.48			hJ		60		wh, pale gy		UN						
BHUA-05	543.50				hJ		60		wh, pale gy		UN						
BHUA-05	543.60				V		25		wh	VN	PR						
BHUA-05	543.70				J		60		wh, pale gy	VN	UN						
BHUA-05	544.00	544.20			hJs	x7	50	60	wh, pale gy		PR						
BHUA-05	544.30				hJ		45		wh, pale gy		PR						
BHUA-05	544.31	544.40			hJs	x2	10	15	wh, pale gy		PR						
BHUA-05	544.45	544.55			hJ		70		wh, pale gy		PR						
BHUA-05	544.45	544.70			hJs	x8	50	60	wh, pale gy		PR						
BHUA-05	544.75	545.00			J		60		wh, pale gy	SN	UN						
BHUA-05	545.45	545.65			hJs	x5	45	55	wh, pale gy		UN						10-30mm pl gn-gy alt halo
BHUA-05	545.66				J		10		wh, pale gy	SN	UN	RF					
BHUA-05	545.68	545.73			hJs	x2	60	75	wh, pale gy		UN						
BHUA-05	545.78				hJ		50		wh, pale gy		UN						
BHUA-05	545.85				J		10		wh, pale gy	SN	UN	RF					
BHUA-05	545.90	546.00			hJs	x2	60	70	wh, pale gy		UN						
BHUA-05	546.03	546.20			hJs	x9	70				PR					20 mm spacing	5-30mm pl gn-gy alt halo
BHUA-05	546.08	546.30			V	x2	5				PR			3			
BHUA-05	546.18				J		75			CN	PR	SM					
BHUA-05	546.19				hJ		70				PR						
BHUA-05	546.26	546.40			hJs	x6	60				PR					220 mm spacing	5-30mm pl gn-gy alt halo
BHUA-05	546.45				hJ		90				PR						
BHUA-05	546.50	546.65			hJs	x3	90				PR					30 mm spacing	5-30mm pl gn-gy alt halo
BHUA-05	546.58				J		5			CN	PR	RF					
BHUA-05	546.61				hJ		90				UN						
BHUA-05	546.71				V		50				PR			5			
BHUA-05	546.74				V		50				PR			5			
BHUA-05	546.81	546.95			hJs	x2	75				UN					10 mm spacing	
BHUA-05	546.88				hJ		40				PR						
BHUA-05	546.91				hJ		80				PR						
BHUA-05	546.94				hJ		60				PR					10 mm spacing	
BHUA-05	547.07				J		75		wh mi	CT	PR	RF		20			
BHUA-05	547.12	547.25			V		85		pl gn-gy mi		PR			5			
BHUA-05	547.20				J		70		wh mi	CT	PR	RF		4			
BHUA-05	547.24				J		45			CN	PR	RF					
BHUA-05	547.27				hJ		30				PR						10mm pl gn-gy alt halo
BHUA-05	547.32				hJ		80				UN						10mm pl gn-gy alt halo
BHUA-05	547.36				V		55				IR			25			
BHUA-05	547.42				hJ		60				PR						10mm pl gn-gy alt halo
BHUA-05	547.44				hJ		60				PR						10mm pl gn-gy alt halo
BHUA-05	547.48				J		70			CT	PR	RF					
BHUA-05	547.54	547.70			hJs	x3	80				PR					20 mm spacing	10mm pl gn-gy alt halo

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	547.70				J		70				UN	SM					
BHUA-05	547.75				hJ		55				IR						10mm pl gn-gy alt halo
BHUA-05	547.81				J		80				IR	RF					
BHUA-05	547.95				V		30				PR			15			
BHUA-05	547.98				hJ		50				PR						
BHUA-05	548.00	548.52			J		80		wh mi	CT	PR-UN	RF		15			
BHUA-05	548.04				hJ		50				UN						
BHUA-05	548.48				hJ		60				PR						
BHUA-05	548.54				V		80				IR						
BHUA-05	548.59				J		35			CN	St	RF					
BHUA-05	548.62				hJ		60				PR						
BHUA-05	548.63				hJ		65				PR						
BHUA-05	548.87				J		80				IR	RF					
BHUA-05	548.93				J		90				IR	RF					
BHUA-05	549.03				J		85			CN	UN	SM					
BHUA-05	549.05				hJ		80				PR						
BHUA-05	549.08				hJ		60				PR						
BHUA-05	549.09				J		40			CN	UN	SM					
BHUA-05	549.16				hJ		60				PR						
BHUA-05	549.33				hJ		90				PR						
BHUA-05	549.44	549.60			hJs	x2	70				PR						
BHUA-05	549.68	549.77			hJs	x2	65				PR						
BHUA-05	549.75				hJ		30				PR						
BHUA-05	549.79				hJ		90				PR						
BHUA-05	549.83				V		90				IR			3			
BHUA-05	549.87	549.97			hJs	x2	90				PR						
BHUA-05	549.91				hJ		70				PR						
BHUA-05	549.96	550.20			hJs	x3	40				PR						
BHUA-05	550.02	550.30			hJs	x8	60				PR						
BHUA-05	550.03				hJ		30				PR						
BHUA-05	550.06				hJ		10				PR						
BHUA-05	550.12				V		90				IR			4			
BHUA-05	550.26				hJ		45				UN						
BHUA-05	550.26	550.40			hJs	x3	40				PR						
BHUA-05	550.40				J		30			CN	UN	SM					
BHUA-05	550.43				V		60				IR			10			
BHUA-05	550.56				hJ		90				PR						
BHUA-05	550.71				V		90				IR						
BHUA-05	550.73				J		60			CN	PR	SM					
BHUA-05	550.80				hJs		50				PR						
BHUA-05	550.87				hJ		90				PR						
BHUA-05	550.92				hJ		80				PR						
BHUA-05	550.97				hJ		40				PR						
BHUA-05	551.05				hJs		60				UN						
BHUA-05	551.19				hJ		70				UN						
BHUA-05	551.37				J		40			CN	PR	SM					
BHUA-05	551.60				hJ		80				PR						
BHUA-05	551.66				hJ		60				IR						
BHUA-05	551.71				J		70			CN	UN	SM					
BHUA-05	551.80	551.95			hJs	x4	80				PR						
BHUA-05	552.05				J		70			CN	PR	SM					
BHUA-05	552.40				hJ		50				PR						
BHUA-05	552.56				hJ		80				PR						
BHUA-05	552.70	552.84			hJs	x2	70				PR						
BHUA-05	552.96				hJ		60				PR						
BHUA-05	553.07				J		75					SM-RF					
BHUA-05	553.13				hJ		20				UN						
BHUA-05	553.19				hJ		35				PR						
BHUA-05	553.24				V		50				IR						
BHUA-05	553.30				V		50				IR						
BHUA-05	553.36				hJ		60				IR						
BHUA-05	553.48				hJ		50				PR						
BHUA-05	553.64				hJ		90				IR						
BHUA-05	553.79				hJ		60				PR						
BHUA-05	553.90				hJ		50				PR						
BHUA-05	553.98				hJ		20				PR						
BHUA-05	554.08				V		60				PR						
BHUA-05	554.09				V		60				PR						
BHUA-05	554.22				hJ		70				PR						
BHUA-05	554.38				hJ		50				PR						
BHUA-05	554.44				hJ		30				PR						
BHUA-05	554.49				hJ		20				PR						
BHUA-05	554.53				hJ		5				PR						
BHUA-05	554.60				hJ		25				PR						
BHUA-05	554.64				J		5			CN		SM					
BHUA-05	554.80				V		70				PR						
BHUA-05	555.03				hJ		90				PR						
BHUA-05	555.10				V		50				IR			5			
BHUA-05	555.20	555.28			hJs	x2											

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	555.30	555.45			hJs	x6										50 mm spacing	
BHUA-05	555.38				hJ		65				PR						
BHUA-05	555.52				hJ		70				IR						
BHUA-05	555.58				hJ		35				PR						
BHUA-05	555.64				hJ		40				PR						
BHUA-05	555.80				hJ		20				PR						
BHUA-05	555.81	555.90			hJs	x5	5				PR					20 mm spacing	
BHUA-05	555.86	555.98			hJs	x2	10				PR					50 mm spacing	
BHUA-05	555.95				hJ		90				PR						
BHUA-05	556.04				hJ		5				PR						
BHUA-05	556.13				hJ		90				PR						
BHUA-05	556.20				hJ		20				PR						
BHUA-05	556.22				hJ		65				PR						
BHUA-05	556.31				hJ		5				PR						
BHUA-05	556.37				hJs		5				PR					50 mm spacing	
BHUA-05	556.47				hJ		85										
BHUA-05	556.50				hJ		60				UN						
BHUA-05	556.55				hJ		25				IR						
BHUA-05	556.59				J		30				PR	RF					
BHUA-05	556.68				hJ		45				PR						
BHUA-05	556.80				hJ		85				IR						
BHUA-05	556.84				hJ		85				PR						
BHUA-05	556.91				hJ		90				PR						
BHUA-05	557.17				hJ		90				PR						
BHUA-05	557.29				hJ		90				PR						
BHUA-05	557.36				hJ		25				PR						
BHUA-05	557.37				hJ		30				PR						
BHUA-05	557.45				hJ		75				PR						
BHUA-05	557.52				hJ		25				PR						
BHUA-05	557.61				hJ		10				PR						
BHUA-05	557.67				J		30			CN	UN	RF					
BHUA-05	557.73				hJ		10				UN						
BHUA-05	557.74				hJ		20				IR						
BHUA-05	557.86				hJ		60				PR						
BHUA-05	557.91				hJ		91				PR						
BHUA-05	557.98				J		5			CN	PR	SM					
BHUA-05	558.01				hJ		50				PR						
BHUA-05	558.10				hJ		60				PR						
BHUA-05	558.12				hJ		90				PR						
BHUA-05	558.18				J		5			CN	UN	SM					
BHUA-05	558.34				V		60				IR			250			
BHUA-05	558.54				V		70				PR						
BHUA-05	558.91				hJ		60				PR						
BHUA-05	558.96	559.15			hJs	x2	35				PR					10 mm spacing	
BHUA-05	559.03				V		20				PR			5			
BHUA-05	559.17				V		75				UN			3			
BHUA-05	559.25	559.35			V	x2	80				UN			3		30 mm spacing	
BHUA-05	559.34				hJ		50				PR						
BHUA-05	559.35				V		70				PR						
BHUA-05	559.39				hJ		60				PR						
BHUA-05	559.48				hJ		70				PR						
BHUA-05	559.49				hJ		70				PR						
BHUA-05	559.54				J		20			CN	PR	RF					
BHUA-05	559.66				hJ		60				PR						
BHUA-05	559.81				hJ		85				PR						
BHUA-05	559.87				hJ		40				PR						
BHUA-05	560.10				hJ		60				PR						
BHUA-05	560.16				hJ		40				PR						
BHUA-05	560.31				J		20			CN	PR	SM					
BHUA-05	560.39				hJ		40				PR						
BHUA-05	560.44				V		85				UN			5			
BHUA-05	560.57				hJ		90				UN						
BHUA-05	560.77				hJ		80				PR						
BHUA-05	560.86				hJ		40				PR						
BHUA-05	560.95				hJ		70				PR						
BHUA-05	561.04				hJ		80				PR	RF					
BHUA-05	561.12				J		10			CN	PR	RF					
BHUA-05	561.16				V		60				CU			4			
BHUA-05	561.25	561.35			V	x2	80				PR			3		10 mm spacing	
BHUA-05	561.35	561.50			Js	x2	5				PR	RF				300 mm spacing	
BHUA-05	561.60				hJ		40				PR						
BHUA-05	561.64				hJ		80				PR						
BHUA-05	561.71				J		20			CN	PR	RF					
BHUA-05	561.88				hJ		65				UN						
BHUA-05	561.92				V		65				IR			10			
BHUA-05	562.10				hJ		65				PR						
BHUA-05	562.20				hJ		90				PR						
BHUA-05	562.38				V		65				IR			60			
BHUA-05	562.41				hJ		55				PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	562.48				hJ		70				PR						
BHUA-05	562.52				hJ		15				UN						
BHUA-05	562.74				hJ		50				PR						
BHUA-05	562.78				hJ		50				PR						
BHUA-05	562.87				V		75				IR						
BHUA-05	562.95				hJ		45				PR						
BHUA-05	563.19				hJ		60				PR						
BHUA-05	563.34				hJ		55				PR						
BHUA-05	563.43				hJ		20				UN						
BHUA-05	563.45				hJ		75				UN						
BHUA-05	563.60				V		75				PR			7			
BHUA-05	563.71				hJ		85				PR						
BHUA-05	563.85				V		55				PR			5			
BHUA-05	563.94				V		90				IR			25			
BHUA-05	563.96				hJ		33				PR						
BHUA-05	564.27				hJ		60				PR						
BHUA-05	564.59				hJ		75				PR						
BHUA-05	564.76				hJ		90				PR						
BHUA-05	564.90				hJ		80				PR						
BHUA-05	565.06				hJ		75				UN						
BHUA-05	565.29				hJ		70				UN						
BHUA-05	565.45				hJ		70				UN						
BHUA-05	565.95				hJ		60				PR						
BHUA-05	566.04				hJ		70				PR						
BHUA-05	566.15				hJ		80				UN						
BHUA-05	566.25				hJ		80				UN						
BHUA-05	566.43				V		80				UN			20			
BHUA-05	566.52				V		75				UN			5			
BHUA-05	566.83				hJ		70				PR						
BHUA-05	566.89				V		90				IR			25			
BHUA-05	567.04				hJ		80				PR						
BHUA-05	567.06				V		80				PR			7			
BHUA-05	567.17				hJ		70				PR						
BHUA-05	567.50				hJ		75				PR						
BHUA-05	567.56				V		80				UN			5			
BHUA-05	567.71				hJ		65				PR						
BHUA-05	567.90				hJ		85				PR						
BHUA-05	568.15				hJ		40				PR						
BHUA-05	568.20				hJ		70				PR						
BHUA-05	568.21				hJ		50				PR						
BHUA-05	568.25				V		90				PR			3			
BHUA-05	568.27				hJ		70				PR						
BHUA-05	568.35				V		90				UN			5			
BHUA-05	568.43				V		75				UN			5			
BHUA-05	568.46				hJ		75				UN						
BHUA-05	568.48				V		40				UN			5			
BHUA-05	568.50				J		65				UN	RF		20			
BHUA-05	568.57				hJ		75				UN			7			
BHUA-05	568.63	569.41			SZ		60	70	fine to coarse gravel and cobbles, wh mi		UN	FR		600			
BHUA-05	568.77				V		80				UN			10			
BHUA-05	568.80				V		75				UN			7			
BHUA-05	568.85				hJ		80				PR						
BHUA-05	568.87				V		85				UN						
BHUA-05	568.93				V		70				UN			5			
BHUA-05	568.95				V		85				UN			4			
BHUA-05	569.33				J		75				PR	RF		40			
BHUA-05	569.40				J		45			CT	PR	RF					
BHUA-05	569.53				hJ		65				PR						
BHUA-05	569.66				V		90				UN			4			
BHUA-05	569.69				hJ		60				PR						
BHUA-05	569.75				hJ		90				UN						
BHUA-05	569.77				hJ		45				UN						
BHUA-05	569.84				hJ		75				PR						
BHUA-05	569.95				hJ		65				UN						
BHUA-05	569.97				hJ		90				PR						
BHUA-05	570.18	570.30			hJs	x2	65				PR					150 mm spacing	
BHUA-05	570.40				hJ		10				PR						
BHUA-05	570.46				J		25			CN	PR	RF					
BHUA-05	570.50				V		40				CU			5			
BHUA-05	570.62				hJ		55				UN						
BHUA-05	570.67				hJ		60				PR						
BHUA-05	570.74				hJ		30				PR						
BHUA-05	570.77				hJ		70				PR						
BHUA-05	570.80				hJ		40				PR						
BHUA-05	570.85				hJ		85				PR						
BHUA-05	570.86				hJ		70				PR						
BHUA-05	570.87				hJ		65				PR						
BHUA-05	570.91				V		15				UN						
BHUA-05	570.96				hJ		60				PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	570.98				hJ		60				CU						
BHUA-05	571.03				hJ		50				UN						
BHUA-05	571.07				hJ		65				PR						
BHUA-05	571.08				hJ		70				CU						
BHUA-05	571.25				hJ		40				CU						
BHUA-05	571.47	571.60			hJs	x2	90				PR					10 mm spacing	
BHUA-05	571.53				hJ		30				PR						
BHUA-05	571.67				hJ		35				PR						
BHUA-05	571.87				hJ		60				PR						
BHUA-05	571.88				hJ		50				PR						
BHUA-05	571.97				J		15				PR	SM					
BHUA-05	572.03				V		35				PR			4			
BHUA-05	572.10				hJ		5				UN						
BHUA-05	572.13				hJ		60				CU						
BHUA-05	572.15				hJ		5				PR						
BHUA-05	572.18				hJ		40				PR						
BHUA-05	572.34				hJ		50				PR						
BHUA-05	572.45				V		40				PR			40			
BHUA-05	572.51				hJ		40				PR						
BHUA-05	572.58				hJ		65				PR						
BHUA-05	572.65				hJ		60				PR						
BHUA-05	572.68				hJ		70				PR						
BHUA-05	572.74				hJ		40				PR						
BHUA-05	572.82				J		40			CN	PR	RF					
BHUA-05	572.90				hJ		50				PR						
BHUA-05	573.08				hJ		70				PR			4			
BHUA-05	573.18				hJ		50				PR						
BHUA-05	573.20	573.30			hJs	x2	40				PR					50 mm spacing	
BHUA-05	573.46				hJ		65				UN						
BHUA-05	573.79				hJ		60				PR						
BHUA-05	573.82				hJ		50				PR						
BHUA-05	573.84				hJ		80				PR						
BHUA-05	573.86				hJ		10				PR						
BHUA-05	573.94				hJ		80				PR						
BHUA-05	574.02				hJ		90				PR						
BHUA-05	574.04				V		40				PR			2			
BHUA-05	574.06				hJ		80				PR						
BHUA-05	574.09				hJ		45				UN						
BHUA-05	574.10	574.30			hJs	x14	40				PR						
BHUA-05	574.20				hJ		70				PR						
BHUA-05	574.36				hJ		40				UN						
BHUA-05	574.52	574.74			hJs	x14	20				PR						
BHUA-05	574.69				hJ		60				PR						
BHUA-05	574.74				J		70			CN	UN	SM					
BHUA-05	574.76				hJ		0				PR						
BHUA-05	574.77	574.88			hJs	x4	10				PR						
BHUA-05	574.83	574.98			hJs	x3	70				PR						
BHUA-05	574.85				hJs		50				PR						
BHUA-05	574.86				hJ		30				PR			3			
BHUA-05	574.93				hJ		30				PR						
BHUA-05	574.94				V		70				PR			3			
BHUA-05	575.03				hJ		70				PR						
BHUA-05	575.04	575.20			hJs	x13	60				PR						
BHUA-05	575.16				hJ		20				PR						
BHUA-05	575.21				hJ		0				PR						
BHUA-05	575.27				hJ		30				UN						
BHUA-05	575.35				hJ		5				PR						
BHUA-05	575.38	575.50			hJs	x4	10				PR						
BHUA-05	575.50				V		70				PR			50			
BHUA-05	575.55				hJ		90				IR						
BHUA-05	575.74				V		60				IR						
BHUA-05	575.88				V		70				IR						
BHUA-05	576.04	576.20			V	x5	60				PR			5			
BHUA-05	576.10				V		65				PR			5			
BHUA-05	576.20				hJ		60				PR						
BHUA-05	576.25				hJ		70				PR						
BHUA-05	576.31				hJ		30				PR						
BHUA-05	576.49				hJ		60				PR						
BHUA-05	576.54				J		5			SN	PR	SM					
BHUA-05	576.57				hJ		70				PR						
BHUA-05	576.59				hJ		45				PR						
BHUA-05	576.68				hJ		65				PR						
BHUA-05	576.69				V		70				PR			3			
BHUA-05	576.70				V		60				UN						
BHUA-05	576.79				hJ		65				PR						
BHUA-05	576.82				hJ		10				PR						
BHUA-05	576.95				V		65				PR			10			
BHUA-05	576.97				hJ		80				PR						
BHUA-05	576.98				hJ		40				PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	577.03	577.30			hJs	x14	60				PR					150 mm spacing	
BHUA-05	577.11	577.30			hJs	x5	5				PR						
BHUA-05	577.12				hJ		70				PR						
BHUA-05	577.30				hJ		40				PR						
BHUA-05	577.41				hJ		70				PR						
BHUA-05	577.50	577.65			hJs	x2	70				PR					40 mm spacing	
BHUA-05	577.64				hJ		45				ST						
BHUA-05	577.66				hJ		50				PR						
BHUA-05	577.78				hJ		70				PR						
BHUA-05	577.81				hJ		40				CU						
BHUA-05	577.82				hJ		50				PR						
BHUA-05	577.86				hJ		30				UN						
BHUA-05	577.93				V		40				UN			2			
BHUA-05	577.96				V		50				UN			5			
BHUA-05	577.97				V		50				IR			2			
BHUA-05	578.03	578.20			V	x2	70				PR			5			
BHUA-05	578.04				hJ		30				PR						
BHUA-05	578.06				hJ		60				PR						
BHUA-05	578.17				J		20			CN	ST	SM					
BHUA-05	578.18				hJ		70				UN						
BHUA-05	578.21				hJ		30				UN						
BHUA-05	578.27				hJ		70				UN						
BHUA-05	578.33	578.50			V	x3	55				UN			5			
BHUA-05	578.35				V		70				PR			10			
BHUA-05	578.47				J		5			CN	PR	SM					
BHUA-05	578.62	578.70			V	x2	40				UN			15			
BHUA-05	578.73	578.90			hJs	x3	45				PR						
BHUA-05	578.75				V		60				UN			5			
BHUA-05	578.90				hJ		70				PR						
BHUA-05	579.02				J		65			CN	ST	SM					
BHUA-05	579.05				V		65				UN			5			
BHUA-05	579.10				V		30				PR			7			
BHUA-05	579.23				hJ		50				PR						
BHUA-05	579.26	579.40			hJs	x8	65				PR						
BHUA-05	579.46				hJ		10				PR						
BHUA-05	579.54				hJ		90				UN						
BHUA-05	579.67				hJ		30				UN						
BHUA-05	579.70				hJ		45				PR						
BHUA-05	579.83				hJ		20				PR						
BHUA-05	579.84				hJ		70				PR						
BHUA-05	579.85				hJ		30				PR						
BHUA-05	579.90				hJ		50				PR						
BHUA-05	579.92	579.99			hJs	x2	20				UN						
BHUA-05	580.01				V		70				IR			3			
BHUA-05	580.03	580.20			hJs	x3	60				PR						
BHUA-05	580.13				V		40				PR						
BHUA-05	580.17	580.40			V	x3	60				PR			10			
BHUA-05	580.19				J		60			CT	ST	RF					
BHUA-05	580.28				hJ		40				PR						
BHUA-05	580.40				hJ		40				PR						
BHUA-05	580.41				hJ		60				PR						
BHUA-05	580.42	580.60			V	x3	60				PR			5			
BHUA-05	580.44				V		60				IR			4			
BHUA-05	580.48	580.70			hJs	x6	20				PR						
BHUA-05	580.52	580.70			hJs	x2	40				PR						
BHUA-05	580.55				hJ		30				PR						
BHUA-05	580.57				hJ		60				PR						
BHUA-05	580.63				hJ		70				PR						
BHUA-05	580.67				hJ		30				PR						
BHUA-05	580.68				hJ		45				UN						
BHUA-05	580.88				hJ		20				PR						
BHUA-05	580.94				hJ		50				PR						
BHUA-05	580.96				hJ		20				PR						
BHUA-05	581.01				hJ		60				PR						
BHUA-05	581.05				hJ		20				PR						
BHUA-05	581.13				V		10				PR			4			
BHUA-05	581.16	581.40			hJs	x13	20				PR						
BHUA-05	581.21				hJ		10				PR						
BHUA-05	581.22				hJ		70				PR						
BHUA-05	581.26				hJ		40				UN						
BHUA-05	581.29				hJ		80				UN						
BHUA-05	581.33				hJ		40				IR						
BHUA-05	581.34				J		20				PR	RF		10			
BHUA-05	581.52	581.60			hJs	x2	50				PR						
BHUA-05	581.57				hJ		40				PR						
BHUA-05	581.71				hJ		20				PR						
BHUA-05	581.72				hJ		70				PR						
BHUA-05	581.76				V		70				UN			5			
BHUA-05	581.84				hJ		60				UN						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	581.91				hJ		40				UN						
BHUA-05	581.95				hJ		60				ST						
BHUA-05	581.96				hJ		60				PR						
BHUA-05	582.06	582.30			hJs	x5	60				PR						
BHUA-05	582.14				hJ		70				PR						
BHUA-05	582.21				V		40				PR			10			
BHUA-05	582.26				hJ		60				PR						
BHUA-05	582.30				V		70				PR			5			
BHUA-05	582.35				hJ		70				PR						
BHUA-05	582.45				V		70				PR			3			
BHUA-05	582.47				hJ		70				PR						
BHUA-05	582.52				hJs		40				PR						
BHUA-05	582.59				hJ		30				PR						
BHUA-05	582.61				V		60				IR			10			
BHUA-05	582.64				V		60				PR			2			
BHUA-05	582.65				J		20			CN	ST	RF					
BHUA-05	582.76				hJ		40				PR						
BHUA-05	582.80				hJ		80				PR						
BHUA-05	582.82				hJ		90				PR						
BHUA-05	582.87				hJ		30				PR						
BHUA-05	582.89				hJ		45				PR						
BHUA-05	582.92	582.98			hJs	x2	40				PR						
BHUA-05	582.97				hJ		85				PR						
BHUA-05	583.01	583.15			hJs	x3	30				PR						
BHUA-05	583.05				hJ		25				PR						
BHUA-05	583.06				hJ		60				PR						
BHUA-05	583.07	583.30			hJs	x4	40				PR						
BHUA-05	583.12				hJ		90				PR						
BHUA-05	583.19				hJ		40				PR						
BHUA-05	583.23				hJ		75				PR						
BHUA-05	583.25				V		70				PR			7			
BHUA-05	583.29				hJ		20				PR						
BHUA-05	583.31				V		70				PR			5			
BHUA-05	583.36				hJ		35				PR						
BHUA-05	583.37				V		60				PR			15			
BHUA-05	583.44				hJ		90				PR						
BHUA-05	583.47				hJ		15				PR						
BHUA-05	583.48				hJ		50				UN						
BHUA-05	583.53				V		30				PR			7			
BHUA-05	583.54				J		5			CN	UN	RF					
BHUA-05	583.57	583.67			hJs	x3	30				PR						
BHUA-05	583.60	583.74			hJs	x2	10				PR						
BHUA-05	583.68				hJ		20				PR						
BHUA-05	583.69				hJ		50				PR						
BHUA-05	583.71				hJ		30				PR						
BHUA-05	583.75				V		60				PR			40			
BHUA-05	583.80				hJ		60				ST						
BHUA-05	583.81				hJ		40				ST						
BHUA-05	583.87				hJ		25				PR						
BHUA-05	583.91				hJ		85				PR						
BHUA-05	583.94				hJ		40				PR						
BHUA-05	583.95				hJ		85				PR						
BHUA-05	584.07				hJ		85				UN						
BHUA-05	584.08				hJ		65				PR						
BHUA-05	584.11	584.20			hJs	x3	30				PR						
BHUA-05	584.12	584.30			hJs	x2	50				PR						
BHUA-05	584.17				hJ		80				PR						
BHUA-05	584.19				hJ		60				PR						
BHUA-05	584.26				hJ		5				PR						
BHUA-05	584.27	584.40			hJs	x4	40				PR						
BHUA-05	584.33				hJ		60				PR						
BHUA-05	584.38				hJ		50				PR						
BHUA-05	584.42				hJ		75				PR						
BHUA-05	584.54				hJ		50				PR						
BHUA-05	584.74				hJ		55				PR						
BHUA-05	584.76				hJ		70				PR						
BHUA-05	584.77				hJ		35				PR						
BHUA-05	584.80				hJ		50				PR						
BHUA-05	584.83				J		35			CT	PR	RF					
BHUA-05	584.85				hJ		90				PR						
BHUA-05	584.87				hJ		65				PR						
BHUA-05	584.88				hJ		55				PR						
BHUA-05	584.89	584.97			hJs	x2	35				PR						
BHUA-05	585.05				hJ		90				PR						
BHUA-05	585.20				hJ		50				PR						
BHUA-05	585.23				hJ		40				PR						
BHUA-05	585.27				hJ		70				PR						
BHUA-05	585.30				V		55				IR			10			
BHUA-05	585.37				J		15			CN	PR	RF					

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	585.39	585.60			hJs	x5	30				PR						
BHUA-05	585.40				hJ		60				PR						
BHUA-05	585.48				hJ		60				PR						
BHUA-05	585.49				hJ		60				PR						
BHUA-05	585.51	585.65			hJs	x3	15				PR						
BHUA-05	585.54				hJ		60				PR						
BHUA-05	585.59				hJ		45				PR						
BHUA-05	585.60				hJ		70				IR						
BHUA-05	585.62				hJ		70				PR						
BHUA-05	585.64				J		5			CN	PR	RF					
BHUA-05	585.67				V		40				PR			4			
BHUA-05	585.68				hJ		50				PR						
BHUA-05	585.68				hJ		45				PR						
BHUA-05	585.69				hJ		75				PR						
BHUA-05	585.70				hJ		50				PR						
BHUA-05	585.73				hJ		40				PR						
BHUA-05	585.74				hJ		30				PR						
BHUA-05	585.76				V		60				PR			3			
BHUA-05	585.79				hJ		50				PR						
BHUA-05	585.80				hJ		30				UN						
BHUA-05	585.87				V		70				PR			100			
BHUA-05	585.93				hJ		50				UN						
BHUA-05	585.95				hJ		30				PR						
BHUA-05	585.97				hJ		50				PR						
BHUA-05	585.98	586.10			hJs	x3	10				PR						
BHUA-05	586.04	586.20			hJs	x3	40				UN						
BHUA-05	586.12	586.25			hJs	x3	60				PR						
BHUA-05	586.16				hJ		50				PR						
BHUA-05	586.17				hJ		30				PR						
BHUA-05	586.23				hJ		50				UN						
BHUA-05	586.24				V		40				UN			3			
BHUA-05	586.25	586.40			hJs	x6	20				PR						
BHUA-05	586.28				hJ		30				PR						
BHUA-05	586.41	586.55			hJs	x2	30				PR						
BHUA-05	586.43				hJ		40				PR						
BHUA-05	586.47				V		40				PR			4			
BHUA-05	586.50				hJ		0				ST						
BHUA-05	586.56				hJ		20				PR						
BHUA-05	586.59				V		30				IR			7			
BHUA-05	586.60	586.75			hJs	x6	40				PR						
BHUA-05	586.64	586.77			hJs	x2	60				PR						
BHUA-05	586.65				hJ		30				PR						
BHUA-05	586.73				hJ		70				PR						
BHUA-05	586.76				hJ		30				PR						
BHUA-05	586.77				V		20				PR						
BHUA-05	586.80				hJ		50				PR						
BHUA-05	586.89				hJ		50				PR						
BHUA-05	586.91				hJ		70				PR						
BHUA-05	586.93				V		70				PR			4			
BHUA-05	587.03	587.10			hJs	x3	40				PR						
BHUA-05	587.10	587.14			hJs	x2	40				PR						
BHUA-05	587.15	587.30			hJs	x3	60				PR						
BHUA-05	587.18				hJ		30				PR						
BHUA-05	587.20				hJ		50				PR						
BHUA-05	587.21				V		80				UN			2			
BHUA-05	587.27				hJ		70				PR						
BHUA-05	587.33				hJ		80				UN						
BHUA-05	587.39	587.47			hJs	x3	40				PR						
BHUA-05	587.49				hJ		50				PR						
BHUA-05	587.55				hJ		60				PR						
BHUA-05	587.56				hJ		70				PR						
BHUA-05	587.59				hJ		0				PR						
BHUA-05	587.62				V		50				IR			5			
BHUA-05	587.68				hJ		60				PR						
BHUA-05	587.70				hJ		70				PR						
BHUA-05	587.71	587.85			hJs	x2	90				UN						
BHUA-05	587.74				V		50				UN			10			
BHUA-05	587.75				hJ		50				PR						
BHUA-05	587.78				hJ		0				PR						
BHUA-05	587.82				hJ		40				IR						
BHUA-05	587.87				V		30				IR			3			
BHUA-05	587.88	587.99			V	x5	60				IR			10			
BHUA-05	587.95				J		60				PR	RF		10			
BHUA-05	588.02				V		40				IR			5			
BHUA-05	588.06				hJ		30				UN						
BHUA-05	588.10	588.30			hJs	x2	20				UN						
BHUA-05	588.11				V		40				PR						
BHUA-05	588.13				V		70				IR			2			
BHUA-05	588.18				J		40				IR	RF					

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	588.25				J		40				PR	RF					
BHUA-05	588.30	588.40			hJs	x2	20				PR						
BHUA-05	588.38				V		30				IR			7			
BHUA-05	588.50				V		60				UN			2			
BHUA-05	588.52	588.63			hJs	x2	50				PR						
BHUA-05	588.56				hJ		30				UN						
BHUA-05	588.62				hJ		20				PR						
BHUA-05	588.69				J		30			CN	PR	RF					
BHUA-05	588.76				hJ		30				PR						
BHUA-05	588.79				hJ		30				PR						
BHUA-05	588.82				hJ		30				PR						
BHUA-05	588.86				hJ		30				PR						
BHUA-05	588.87				hJ		10				PR						
BHUA-05	588.91				hJ		60				PR						
BHUA-05	588.92				hJ		40				PR						
BHUA-05	588.92				hJ		20				PR						
BHUA-05	588.97				hJ		60				PR						
BHUA-05	589.02	589.12			hJs	x7	60				PR						
BHUA-05	589.14				hJ		10				PR						
BHUA-05	589.27				hJ		20				PR						
BHUA-05	589.32	589.44			hJs	x2	0				PR						
BHUA-05	589.41	589.60			hJs	x5	30				PR						
BHUA-05	589.43				hJ		40				PR						
BHUA-05	589.57				Js						IR	RF					
BHUA-05	589.59				V		50				PR			3			
BHUA-05	589.67				hJ		50				IR						
BHUA-05	589.91	590.10			hJs	x4	30				PR						
BHUA-05	590.00	590.20			hJs	x6	30				PR						
BHUA-05	590.04	590.25			hJs	x6	40				PR						
BHUA-05	590.21	590.33			hJs	x3	60				PR						
BHUA-05	590.22				hJ		70				PR						
BHUA-05	590.31				V		60				PR			2			
BHUA-05	590.35				J		70			CN	IR	SM					
BHUA-05	590.38				V		60				IR			7			
BHUA-05	590.40	590.49			hJs	x2	80				IR						
BHUA-05	590.52				hJ		0				PR						
BHUA-05	590.53				hJ		20				PR						
BHUA-05	590.54				hJ		50				PR						
BHUA-05	590.55				hJ		50				PR						
BHUA-05	590.61				V		30				PR			2			
BHUA-05	590.71				hJ		40				PR						
BHUA-05	590.74				hJ		10				PR						
BHUA-05	590.76				hJ		70				PR						
BHUA-05	590.77				hJ		50				PR						
BHUA-05	590.78				J		30			CN	PR	SM					
BHUA-05	590.81				hJ		30				PR						
BHUA-05	590.81	590.97			hJs	x2	30				PR						
BHUA-05	590.82				hJ		30				PR						
BHUA-05	590.85	591.00			hJs	x3	60				PR						
BHUA-05	590.86				hJ		50				PR						
BHUA-05	590.91				hJ		70				PR						
BHUA-05	590.94	591.05			hJs	x2	30				PR						
BHUA-05	590.96				hJ		40				PR						
BHUA-05	590.97	591.10			hJs	x2	20				PR						
BHUA-05	590.99				hJ		70				PR						
BHUA-05	591.02	591.20			hJs	x2	30				PR						
BHUA-05	591.12	591.22			hJs	x2	20				PR						
BHUA-05	591.18				hJ		40				PR						
BHUA-05	591.22	591.35			hJs	x4	10										
BHUA-05	591.23				hJ		50										
BHUA-05	591.32				V		40				IR			3			
BHUA-05	591.33	591.45			hJs	x2	50				PR						
BHUA-05	591.38				hJ		30				PR						
BHUA-05	591.42				J		40			CN	PR	SM					
BHUA-05	591.43	591.60			hJs	x6	40				PR						
BHUA-05	591.43	591.64			hJs	x3	80				PR						
BHUA-05	591.50	591.68			hJs	x2	10				PR						
BHUA-05	591.65				J		10			CN	IR	SM					
BHUA-05	591.68				hJ		80				IR						
BHUA-05	591.71				J		20			CN	ST	SM					
BHUA-05	591.73				V		70				PR			8			
BHUA-05	591.74				V		80				IR			2			
BHUA-05	591.90				hJs		70				PR						
BHUA-05	591.92				V		10				PR			2			
BHUA-05	592.03	592.15			hJs	x3	70				PR						
BHUA-05	592.06	592.30			hJs	x2	60				PR						
BHUA-05	592.09				hJ		30				PR						
BHUA-05	592.21				hJ		50				PR						
BHUA-05	592.25				hJ		50				PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	592.26	592.38			hJ	x2	40				PR					20 mm spacing	
BHUA-05	592.27	592.40			hJs	x3	70				PR						
BHUA-05	592.34				hJ		80				PR						
BHUA-05	592.39	592.50			hJs	x2	80				PR					10 mm spacing	
BHUA-05	592.40				hJ		60										
BHUA-05	592.42				hJ		20				PR						
BHUA-05	592.45				hJ		60				PR						
BHUA-05	592.50				hJ		60				PR						
BHUA-05	592.54				hJ		70				PR						
BHUA-05	592.57				hJ		40				PR						
BHUA-05	592.59				hJ		50				PR						
BHUA-05	592.60				hJ		80				PR						
BHUA-05	592.61				hJ		40				PR						
BHUA-05	592.62				hJ		40				PR						
BHUA-05	592.66				V		60				PR			50			
BHUA-05	592.68	592.77			hJs	x3	60				PR					15 mm spacing	
BHUA-05	592.77				V		50				UN			10			
BHUA-05	592.80				hJ		50				PR						
BHUA-05	592.88				hJ		60				PR						
BHUA-05	592.90				hJ		60				PR						
BHUA-05	592.93				hJ		10				PR						
BHUA-05	592.94				hJ		60				PR						
BHUA-05	592.96				J		20				PR						
BHUA-05	592.98				hJ		40				PR						
BHUA-05	592.99				hJ		20				PR						
BHUA-05	593.03	593.20			hJs	x4	50				UN						
BHUA-05	593.11				hJ		40				PR						
BHUA-05	593.14	593.30			hJ	x2	60				PR						
BHUA-05	593.23				J		75				PR	RF		70			
BHUA-05	593.27				V		75				PR						
BHUA-05	593.34				V		80				PR			7			
BHUA-05	593.39				hJ		30				PR						
BHUA-05	593.42				hJ		40				PR						
BHUA-05	593.47				hJ		60				PR						
BHUA-05	593.55				hJ		50	90			UN						
BHUA-05	593.62				V		50				IR			5			
BHUA-05	593.66				V		70				IR			5			
BHUA-05	593.67				V		70				IR			3			
BHUA-05	593.72				V		40				PR			3			
BHUA-05	593.74				hJ		60				PR						
BHUA-05	593.84				V		70				PR			3			
BHUA-05	593.87				hJ		70				PR						
BHUA-05	593.89				hJ		60				PR						
BHUA-05	593.90				V		60				PR						
BHUA-05	594.02	594.20			hJs	x2	50				PR						
BHUA-05	594.13				hJ		40				PR						
BHUA-05	594.16	594.25			hJs	x2	60				PR					10 mm spacing	
BHUA-05	594.23				J		60			CN	ST	RF					
BHUA-05	594.39	594.50			hJs	x3	40				PR					5 mm spacing	
BHUA-05	594.43				J		0			CN	PR	RF					
BHUA-05	594.48				hJ		60				PR						
BHUA-05	594.54				hJ		50				PR						
BHUA-05	594.60				hJ		60				PR						
BHUA-05	594.70				hJ		40				PR						
BHUA-05	594.82				MB												
BHUA-05	594.84				hJ		50				PR						
BHUA-05	594.85				hJ		50				PR						
BHUA-05	594.86				hJ		15				PR						
BHUA-05	594.86				hJ		75				PR						
BHUA-05	594.89				hJ		55				PR						
BHUA-05	594.90				hJ		55				CU						
BHUA-05	594.92				hJ		20				CU						
BHUA-05	595.01				hJ		10				PR						
BHUA-05	595.07				hJ		80				PR						
BHUA-05	595.09				hJ		75				PR						
BHUA-05	595.10				hJ		35				PR						
BHUA-05	595.12				V		20				PR			3			
BHUA-05	595.14				V		35				PR						
BHUA-05	595.16				hJ		10				PR						
BHUA-05	595.20				hJ		15				PR						
BHUA-05	595.22				hJ		30				PR						
BHUA-05	595.24				hJ		25				PR						
BHUA-05	595.26				J		20			CN	ST	RF					
BHUA-05	595.27				V		15				PR			4			
BHUA-05	595.34				hJ		55				PR						
BHUA-05	595.39				hJ		65				PR						
BHUA-05	595.43				hJ		15				PR						
BHUA-05	595.45				V		15				PR			5			
BHUA-05	595.47				hJ		30				PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	595.51				hJ		70				PR						
BHUA-05	595.53				hJ		60				PR						
BHUA-05	595.55				V		30				PR			3			
BHUA-05	595.59				hJ		80				PR						
BHUA-05	595.65				hJ		75				PR						
BHUA-05	595.66				hJ		50				PR						
BHUA-05	595.72				hJ		40				PR						
BHUA-05	595.76				hJ		80				PR						
BHUA-05	595.79				hJ		40				PR						
BHUA-05	595.82				hJ		75				PR						
BHUA-05	595.83				hJ		90				PR						
BHUA-05	595.88				hJ		70				PR						
BHUA-05	595.91				hJ		30				PR						
BHUA-05	595.96				hJ		60				PR						
BHUA-05	595.98				hJ		10				PR						
BHUA-05	596.01				hJ		80				PR						
BHUA-05	596.02				hJ		60				PR						
BHUA-05	596.05	596.15			hJs	x2	25				PR					10 mm spacing	
BHUA-05	596.07				hJ		30				PR						
BHUA-05	596.09				hJ		40				PR						
BHUA-05	596.12				V		30				PR			5			
BHUA-05	596.13				hJ		15				PR						
BHUA-05	596.15				hJ		25				PR						
BHUA-05	596.23				hJ		60				PR						
BHUA-05	596.24				hJ		15				PR						
BHUA-05	596.25				hJ		60				PR						
BHUA-05	596.26				hJ		90				PR						
BHUA-05	596.27				hJ		55				PR						
BHUA-05	596.30				V		25				PR			3			
BHUA-05	596.33				V		85				PR			3			
BHUA-05	596.36				hJ		75				PR						
BHUA-05	596.44				hJ		30				PR						
BHUA-05	596.48				hJ		65				PR						
BHUA-05	596.51				V		50				PR			2			
BHUA-05	596.53	596.70			hJs	x3	20				PR						
BHUA-05	596.57				hJ		10				PR						
BHUA-05	596.58				hJ		55				PR						
BHUA-05	596.59				hJ		80				PR						
BHUA-05	596.60				hJ		65				PR						
BHUA-05	596.62				hJ		10										
BHUA-05	596.65				hJ		65				PR						
BHUA-05	596.68				hJ		85				PR						
BHUA-05	596.72				V		15				PR			2			
BHUA-05	596.75				hJ		15				PR						
BHUA-05	596.79				hJ		10				PR						
BHUA-05	596.81				V		20				PR			2			
BHUA-05	596.86				hJ		10				PR						
BHUA-05	596.91				hJ		20				PR						
BHUA-05	596.94				hJ		75				PR						
BHUA-05	596.95	597.10			hJs	x2	10				PR						
BHUA-05	596.96				hJ		60				PR						
BHUA-05	597.02				V		65				PR			2			
BHUA-05	597.05				hJ		65				PR						
BHUA-05	597.06	597.20			hJs	x2	60				PR						
BHUA-05	597.09				J		60					RF		5			
BHUA-05	597.10				hJ		80				PR						
BHUA-05	597.11				hJ		90				PR						
BHUA-05	597.12				hJ		50				PR						
BHUA-05	597.13				hJ		45				PR						
BHUA-05	597.14				hJ		40				PR						
BHUA-05	597.15				hJ		25				PR						
BHUA-05	597.18				hJ		30				PR						
BHUA-05	597.19				hJ		65				PR						
BHUA-05	597.20				hJ		30				PR						
BHUA-05	597.22				hJ		75				PR						
BHUA-05	597.26				hJ		40				PR						
BHUA-05	597.27				hJ		45				PR						
BHUA-05	597.29				hJ		35				PR						
BHUA-05	597.31				hJ		25				PR						
BHUA-05	597.32				hJ		20				PR						
BHUA-05	597.37				hJ		75				PR						
BHUA-05	597.40				hJ		65				PR						
BHUA-05	597.41				hJ		40				PR						
BHUA-05	597.42				hJ		50				PR						
BHUA-05	597.45				hJ		70				PR						
BHUA-05	597.47				hJ		70			CN	ST	RF					
BHUA-05	597.48				hJ		50				PR						
BHUA-05	597.49				hJ		85				PR						
BHUA-05	597.51				hJ		40				PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	597.53				V		30				PR			2			
BHUA-05	597.59				V		45				PR						
BHUA-05	597.62				V		35				PR						
BHUA-05	597.64				hJ		30				PR						
BHUA-05	597.65				hJ		35				PR						
BHUA-05	597.67				hJ		60				PR						
BHUA-05	597.68				hJ		65				PR						
BHUA-05	597.69				hJ		25				PR						
BHUA-05	597.71				hJ		65				PR						
BHUA-05	597.72				hJ		25				PR						
BHUA-05	597.73				hJ		30				PR						
BHUA-05	597.74				V		55				PR			2			
BHUA-05	597.75				hJ		25				PR						
BHUA-05	597.76				hJ		40				PR						
BHUA-05	597.78				hJ		40				PR						
BHUA-05	597.79				hJ		85				PR						
BHUA-05	597.82				hJ		60				UN						
BHUA-05	597.85				hJ		20				CU						
BHUA-05	597.85	597.98			V	x2	70				PR			3			
BHUA-05	597.89				V		60				PR						
BHUA-05	597.90				V		10				UN						
BHUA-05	597.92				hJ		40				PR						
BHUA-05	597.93	598.10			hJs	x3	20				PR						
BHUA-05	597.94				hJ		80				UN						
BHUA-05	597.97				hJ		40				PR						
BHUA-05	598.03	598.20			hJs	x3	30				PR						
BHUA-05	598.07				hJ		65				CU						
BHUA-05	598.07				hJ		40				PR						
BHUA-05	598.14				hJ		30				PR						
BHUA-05	598.15				hJ		40				PR						
BHUA-05	598.18				hJ		75				PR						
BHUA-05	598.20				V		20				UN			3			
BHUA-05	598.24				hJ		40				PR						
BHUA-05	598.25				hJ		30				PR						
BHUA-05	598.29				hJ		25				UN						
BHUA-05	598.31				hJ		50				PR						
BHUA-05	598.34				V		55				UN			4			
BHUA-05	598.35	598.50			V	x4	35				IR						
BHUA-05	598.40				J		45			CN	UN	RF					
BHUA-05	598.45				J		10			CN	PR	RF					
BHUA-05	598.47				J		60		pl gn-yl mi	SN	PR	RF					
BHUA-05	598.50				V		65				PR			15			
BHUA-05	598.51				hJ		90				UN						
BHUA-05	598.52				hJ		20				PR						
BHUA-05	598.54				V		30				IR			10			
BHUA-05	598.55				hJ		70				PR						
BHUA-05	598.57	598.69			V	x2	90				IR			7			
BHUA-05	598.61				J		10			CN	IR	RF					
BHUA-05	598.67				V		30				IR			4			
BHUA-05	598.77				hJ		60				UN						
BHUA-05	598.84				J		65			VN	PR	SM					
BHUA-05	598.90				V		40				PR			2			
BHUA-05	598.92				hJ		20				PR						
BHUA-05	598.93				hJ		50				UN						
BHUA-05	598.97				hJ		60				PR						
BHUA-05	599.04				V		20				IR						
BHUA-05	599.05				hJ		70				PR						
BHUA-05	599.10				J		10			CN	PR	SM					
BHUA-05	599.11				hJ		50				PR						
BHUA-05	599.25				hJ		50				PR						
BHUA-05	599.28				hJ		50				UN						
BHUA-05	599.31				hJ		60				PR						
BHUA-05	599.37				hJ		90				UN						
BHUA-05	599.38				V		50				UN						
BHUA-05	599.44				hJ		75				PR						
BHUA-05	599.46				V		85				UN			4			
BHUA-05	599.48				V		40				IR			10			
BHUA-05	599.54				V		5				IR			3			
BHUA-05	599.55				hJ		40				PR						
BHUA-05	599.59	599.70			hJs	x5	50				UN						
BHUA-05	599.61				V		10				UN			10			
BHUA-05	599.63				hJ		60				IR						
BHUA-05	599.74				J		20			CN	IR	RF					
BHUA-05	599.77				hJ		30				PR						
BHUA-05	599.80	599.90			hJs	x4	60				PR						
BHUA-05	600.01				hJ		15				PR						
BHUA-05	600.03				hJ		30				ST						
BHUA-05	600.06	600.20			hJs	x3	40				IR						
BHUA-05	600.13				hJ		55				PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	600.15				J		30			VN	ST	SL					
BHUA-05	600.21				J		30			VN	ST	SL					
BHUA-05	600.22				hJ		75				PR						
BHUA-05	600.23	600.38			hJs	x3	40				PR						
BHUA-05	600.26				AZ												
BHUA-05	600.28				J		10			CN	ST	SM					
BHUA-05	600.35				hJ		75				IR						
BHUA-05	600.37				hJ		70				PR						
BHUA-05	600.40				hJ		45				PR						
BHUA-05	600.42				V		30				PR						
BHUA-05	600.43	600.60			Js	x3	30			VN	UN	SL					
BHUA-05	600.53				V		30				PR			3			
BHUA-05	600.57				hJ		50				UN						
BHUA-05	600.64				hJ		60				PR						
BHUA-05	600.69				hJ		70				PR						
BHUA-05	600.74				J		20			CN	UN	RF					
BHUA-05	600.77				hJ		40				PR						
BHUA-05	600.78				hJ		50				PR						
BHUA-05	600.79				hJ		70				PR						
BHUA-05	600.80				V		80				UN			7			
BHUA-05	600.85				hJ		70				PR						
BHUA-05	600.93				hJ		75				PR						
BHUA-05	600.96				hJ		55				PR						
BHUA-05	601.03				hJ		40				PR						
BHUA-05	601.06				hJ		60				PR						
BHUA-05	601.10				hJ		50				PR						
BHUA-05	601.11				J		30			CN	PR	RF					
BHUA-05	601.13				hJ		35				PR						
BHUA-05	601.17				J		50			CN	PR	RF					
BHUA-05	601.18				V		60				UN			10			
BHUA-05	601.20				hJ		85				PR						
BHUA-05	601.21				V		60				IR			4			
BHUA-05	601.23				hJ		65				PR						
BHUA-05	601.26				hJ		10				PR						
BHUA-05	601.28				J		55			CN	PR	RF					
BHUA-05	601.31				V		90				IR			2			
BHUA-05	601.33				hJ		10				PR						
BHUA-05	601.35				hJ		35				PR						
BHUA-05	601.37				hJ		60				PR						
BHUA-05	601.40				hJ		50				PR						
BHUA-05	601.42				hJ		20				PR						
BHUA-05	601.48				hJ		40				PR						
BHUA-05	601.49				hJ		40				PR						
BHUA-05	601.50				J		40			CN	UN	RF					
BHUA-05	601.54				V		70				IR			2			
BHUA-05	601.56				hJ		30				PR						
BHUA-05	601.57				hJ		40				PR						
BHUA-05	601.57				hJ		30				IR						
BHUA-05	601.60				hJ		40				PR						
BHUA-05	601.61	601.75			hJs	x2	20				PR					25 mm spacing	
BHUA-05	601.64				hJ		15				PR						
BHUA-05	601.66				hJ		50				PR						
BHUA-05	601.67				hJ		10				PR						
BHUA-05	601.71				hJ		35				PR						
BHUA-05	601.79				hJ		20				PR						
BHUA-05	601.83				hJ		70				PR						
BHUA-05	601.86				hJ		70				PR						
BHUA-05	601.96				J		35			CN	UN	RF					
BHUA-05	602.05				J		50			CN	ST	RF					
BHUA-05	602.10				hJ		50				PR						
BHUA-05	602.13				J		50			CN	UN	RF					
BHUA-05	602.25				hJ		70				IR						
BHUA-05	602.29	602.40			hJs	x2	45				PR						
BHUA-05	602.35				hJ		60				IR						
BHUA-05	602.39	602.50			hJs	x2	20				PR						
BHUA-05	602.42				hJ		10				PR						
BHUA-05	602.44				V		5				IR			2			
BHUA-05	602.45				hJ		10				PR						
BHUA-05	602.47				J		25			CN	UN	RF					
BHUA-05	602.50				hJ		85				PR						
BHUA-05	602.53				V		15				IR			2			
BHUA-05	602.55				hJ		65				PR						
BHUA-05	602.60				J		60			CN	PR	RF					
BHUA-05	602.62				hJ		15				PR						
BHUA-05	602.65				hJ		40				IR						
BHUA-05	602.68				J		75			CN	UN	RF					
BHUA-05	602.72				hJ		25				PR						
BHUA-05	602.75				hJ		35				IR						
BHUA-05	602.80				hJ		65				IR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	602.84				hJ		10				PR						
BHUA-05	602.85				hJ		45				PR						
BHUA-05	602.86	602.98			hJs	x2	50				PR						
BHUA-05	602.87				hJ		90				PR						
BHUA-05	602.90				J		55				UN						
BHUA-05	602.91				V		40				IR						
BHUA-05	602.93				hJ		90				PR						
BHUA-05	602.94	603.10			hJs	x2	60				IR						
BHUA-05	602.95	603.15			V	x3	30				IR			5			
BHUA-05	602.98				V		25				PR			5			
BHUA-05	603.02				hJ		20				PR						
BHUA-05	603.07				hJ		55				PR						
BHUA-05	603.08				hJ		50				PR						
BHUA-05	603.12				hJ		15				IR						
BHUA-05	603.14	603.20			hJs	x2	50				IR						
BHUA-05	603.15				J		30			CN	UN	RF					
BHUA-05	603.19				hJ		90				PR						
BHUA-05	603.21				hJ		25				PR						
BHUA-05	603.27				J		50			CN	UN	RF					
BHUA-05	603.30	603.40			hJs	x2	50				PR						
BHUA-05	603.36				V		10				PR			2			
BHUA-05	603.38				V		40				PR			2			
BHUA-05	603.40				V		5				PR			2			
BHUA-05	603.41	603.54			V	x2	15				PR			2			
BHUA-05	603.45				V		60				PR						
BHUA-05	603.46				hJ		65				PR						
BHUA-05	603.52				hJ		65				PR						
BHUA-05	603.56				V		55				IR						
BHUA-05	603.58				J					VN	UN	RF					
BHUA-05	603.60				V		55				PR						
BHUA-05	603.62				hJ		15				PR						
BHUA-05	603.65				J		35			CN	UN	RF					
BHUA-05	603.67				hJ		45				PR						
BHUA-05	603.68				V		90				IR			3			
BHUA-05	603.71				hJ		60				IR						
BHUA-05	603.74				hJ		60				PR						
BHUA-05	603.79				hJ		50				PR						
BHUA-05	603.87				hJ		35				PR						
BHUA-05	603.88				V		70				IR						
BHUA-05	604.02				hJ		60				PR						
BHUA-05	604.03				hJ		60				PR						
BHUA-05	604.04	604.15			V	x3	50				PR			3			
BHUA-05	604.09				hJ		70				PR						
BHUA-05	604.15	604.30			V	x3	20				PR			3			
BHUA-05	604.21	604.40			hJs	x3	40				PR						
BHUA-05	604.26				hJ		60				PR						
BHUA-05	604.28				hJ		50				PR						
BHUA-05	604.31				J		60			CN	UN						
BHUA-05	604.36				hJ		60				PR						
BHUA-05	604.42				V		80				PR			2			
BHUA-05	604.42				V		60				PR			60			
BHUA-05	604.52				V		50				PR			2			
BHUA-05	604.56				V		50				PR			3			
BHUA-05	604.61				J		50			CN	UN	RF					
BHUA-05	604.66				hJ		45				IR						
BHUA-05	604.79				V		45				PR			3			
BHUA-05	604.79	604.90			V	x5	45				PR			3			
BHUA-05	604.98				J		5				PR	RF					
BHUA-05	605.03				hJ		10				IR						
BHUA-05	605.08				hJ		40				PR						
BHUA-05	605.12				J		40			CN	PR	RO					
BHUA-05	605.17				hJ		30				IR						
BHUA-05	605.19				hJ		50				IR						
BHUA-05	605.27				hJ		30				PR						
BHUA-05	605.32				V		30				IR			2			
BHUA-05	605.34				V		5				PR			2			
BHUA-05	605.37				hJ		45				PR						
BHUA-05	605.40				hJ		40				PR						
BHUA-05	605.41	605.60			hJs	x2	30				PR					10 mm spacing	
BHUA-05	605.44				hJ		85				PR						
BHUA-05	605.45				hJ		30				PR						
BHUA-05	605.51				hJ		30				PR						
BHUA-05	605.56				hJ		10				PR						
BHUA-05	605.57				hJ		30				IR						
BHUA-05	605.58				V		0				IR			4			
BHUA-05	605.59				J		40			CN	PR	SM					
BHUA-05	605.62				hJ		40				PR						
BHUA-05	605.63				hJ		40				PR						
BHUA-05	605.64				hJ		10				PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	605.67				V		25				PR						
BHUA-05	605.68				hJ		40				PR						
BHUA-05	605.69				hJ		60				PR						
BHUA-05	605.71				hJ		30				PR						
BHUA-05	605.72				V		10				PR			3			
BHUA-05	605.75				hJ		5				PR						
BHUA-05	605.77				V		15				PR			2			
BHUA-05	605.80				hJ		70				PR						
BHUA-05	605.81				J		40			CN	PR	SM					
BHUA-05	605.83				hJ		50				PR						
BHUA-05	605.84				hJ		20				PR						
BHUA-05	605.86				hJ		35				PR						
BHUA-05	605.89				hJ		5				PR						
BHUA-05	605.89	605.97			hJs	x2	5				PR						
BHUA-05	605.93				hJ		60				IR						
BHUA-05	605.95				hJ		5				PR						
BHUA-05	605.96				V		60				PR			2			
BHUA-05	605.98				hJ		10				PR						
BHUA-05	606.02				hJ		30				IR						
BHUA-05	606.03	606.20			hJs	x3	40				PR					10 mm spacing	
BHUA-05	606.13				hJ		35				IR						
BHUA-05	606.15	606.35			hJs	x3	40				PR						
BHUA-05	606.22				hJ		45				PR						
BHUA-05	606.26				hJ		10				PR						
BHUA-05	606.30				J		30			CN	ST	SM					
BHUA-05	606.33	606.50			hJs	x2	55				IR						
BHUA-05	606.37				hJ		30				PR						
BHUA-05	606.42				hJ		15				PR						
BHUA-05	606.43				hJ		20				PR						
BHUA-05	606.45				hJ		30				PR						
BHUA-05	606.48				J		20			CN	PR	SM					
BHUA-05	606.51				hJ		50				PR						
BHUA-05	606.52				hJ		90				PR						
BHUA-05	606.58				hJ		80				PR						
BHUA-05	606.59				hJ		30				IR						
BHUA-05	606.62				V		40				PR						
BHUA-05	606.65				hJ		40				PR						
BHUA-05	606.67	606.80			Js	x4	40			CN	PR	SM					
BHUA-05	606.83				hJ		20				PR						
BHUA-05	606.85				hJ		85				PR						
BHUA-05	606.86				J		30				PR						
BHUA-05	606.88				hJ		30				PR						
BHUA-05	606.94				hJ		10				PR						
BHUA-05	606.96				hJ		30				PR						
BHUA-05	606.99				hJ		20				PR						
BHUA-05	607.04				V		30				IR			5			
BHUA-05	607.06				J		40			CN	PR	SM					
BHUA-05	607.18				hJ		10				PR						
BHUA-05	607.20				hJ		40				PR						
BHUA-05	607.25				hJ		35				PR						
BHUA-05	607.33				hJ		90				PR						
BHUA-05	607.36				hJ		10				PR						
BHUA-05	607.39				V		5				IR			4			
BHUA-05	607.41				J		40			CN	PR	SM					
BHUA-05	607.43				V		55				UN			5			
BHUA-05	607.46				hJ		35				PR						
BHUA-05	607.48				V		50				UN			4			
BHUA-05	607.51				V		30				PR			4			
BHUA-05	607.61				J		40				PR	SM					
BHUA-05	607.61				J		20			CN	PR	SM					
BHUA-05	607.68				V		40				PR			3			
BHUA-05	607.70				V		40				PR			15			
BHUA-05	607.71				J		40				PR	RF					
BHUA-05	607.74				hJ		40				PR						
BHUA-05	607.78				J		15		gy mi	SN	PR	RF					
BHUA-05	607.80				V		25		wh, Qtz mi		UN						
BHUA-05	607.81				J		10		wh, Qtz mi	VN	UN						
BHUA-05	607.82				J		55		wh, Qtz mi	VN	UN						
BHUA-05	607.88	607.95			hJs	x3	20	30	wh, pale gy		PR						
BHUA-05	607.90				hJ		60		wh, Qtz mi		PR						
BHUA-05	608.00				J		20		wh, pale gy	SN	UN	RF					
BHUA-05	608.00	609.00			hJs	>20	30	45	pale gy		UN	RF					
BHUA-05	608.02				J		20		wh, pale gy	SN	UN	RF					
BHUA-05	608.07				hJ		20		wh, Qtz mi		UN						
BHUA-05	608.18	608.24			J	/hJ	20	30	br, iron oxide	VN	UN	RF					
BHUA-05	608.42				J		50		br, pale gy	SN	PR	RF					
BHUA-05	608.45				J		60		pale gy	SN	UN	RF					
BHUA-05	608.52				J		25		gy	SN	PR	RF					
BHUA-05	608.78				J		10		pale gy	SN	PR	RF					

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Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	609.00	609.08			FZ												recovered as gravel
BHUA-05	609.10	610.22			J	>15	20	30	pale gy	SN	PR	RF					
BHUA-05	609.12	610.20			hJs	>10	20	30	pale gy		UN-PR	RF					
BHUA-05	610.40	610.55			J		80		pale gy	SN	PR	RF					
BHUA-05	610.53				J		30		pale gy	SN	PR	RF					
BHUA-05	610.60				J		20		pale gy	VN	PR	RF					
BHUA-05	610.66				J		20		pale gy	SN	PR	RF					
BHUA-05	610.73				hJ		60		pale gy		PR						
BHUA-05	610.85				J		10		pale gy	SN	UN	RF					
BHUA-05	611.00	611.55			J	x10	10	20	pale gy	SN	PR-UN	RF					
BHUA-05	611.05	612.00			hJs	/AZ	20	30	pale gy		PR-UN	RF					
BHUA-05	612.05				J		50		gy	SN	PR	RF					
BHUA-05	612.12				J		70		pale gy	SN	PR	RF					
BHUA-05	612.20				hJ		70		gy		PR	RF					
BHUA-05	612.21	612.25			hJs	x3	20	30	pale gy		PR						
BHUA-05	612.25				hJ		30		pale gy		PR						
BHUA-05	612.27	612.45			hJs	x10	70	90	pale gy, br		UN						
BHUA-05	612.30				J		5		pale gy	SN	UN	RF					
BHUA-05	612.45				J		50		pale gy, br	SN	PR	RF					
BHUA-05	612.50	612.55			J	/FZ	30	40	pale gy, br	SN	PR-UN	RF					
BHUA-05	612.86				J		30		pale gy, br	SN	PR-UN	RF					
BHUA-05	613.10	613.30			hJs	x3	60	70	pale gy, br		UN	RF					
BHUA-05	613.25				hJ		70		gy mi		PR						
BHUA-05	613.33				J		60		gy mi	SN	PR	RF					
BHUA-05	613.35	613.43			J		70		gy mi	SN	UN	RF					
BHUA-05	613.45				J		20		gy mi	SN	UN	RF					
BHUA-05	613.53				J		35		gy mi	SN	PR	RF					
BHUA-05	613.65	613.75			hJs	x3	30	40	gy mi		UN						
BHUA-05	613.79	613.92			hJs	x3	10	20	gy mi		PR						
BHUA-05	613.80	614.00			hJ	x3	60	70	gy mi		PR	RF					
BHUA-05	614.00	615.00			hJs		30	45	pale gy		UN						
BHUA-05	614.20				J		25		pale gy	SN	UN	RF					
BHUA-05	614.48				J		35		pale gy	SN	PR	RF					
BHUA-05	614.58				J		40		pale gy	SN	UN	RF					
BHUA-05	614.72	615.00			hJ		80	90	pale gy		PR-UN						
BHUA-05	614.75	615.00			hJ	x4	25	35	pale gy		PR-UN	RF					
BHUA-05	614.87				hJ		65		pale gy		UN						
BHUA-05	615.00	615.10			hJs	x2	70	85	pale gy		UN						
BHUA-05	615.17				J		60		pale gy	SN	PR	RF					
BHUA-05	615.20	615.30			hJs	x3	70	80	pale gy		UN						
BHUA-05	615.22	615.30			J		55		pale gy	SN	PR	RF					
BHUA-05	615.25	615.30			V		70		wh, Qtz mi	VN	PR						
BHUA-05	615.40	615.65			J		60		pale gy, wh	VN	PR	RF					
BHUA-05	615.40	615.67			hJs	x4	10	30	pale gy, wh		PR						
BHUA-05	615.70	615.85			J		60	70	pale gy, wh	VN	PR	RF					
BHUA-05	615.89				J		5		pale gy, wh	SN	PR	RF					
BHUA-05	615.90	616.00			J		85	90	pale gy, wh	SN	PR	RF					
BHUA-05	616.25				J		45		pale gy, wh	SN	UN	RF					
BHUA-05	616.28				J		30		pale gy, wh	SN	PR	RF					
BHUA-05	616.35	616.50			hJ	x7	20	30	pale gy, wh		PR-UN	RF					
BHUA-05	616.58	616.60			V		45		pale yl, wh Qtz mi	VN	UN						
BHUA-05	616.65				J		45		pale gy	SN	PR	RF					
BHUA-05	616.68	617.00			hJs	x8	25	35	pale gy wh		PR						
BHUA-05	616.92				J		10		pale gy	SN	PR	RF					
BHUA-05	616.97				hJ		10	30	pale gy		PR						
BHUA-05	617.00	617.05			FZ	x2	60	65	pale gy, wh	VN	UN						intersecting joints
BHUA-05	617.09				J		30		pale gy, wh	VN	UN						
BHUA-05	617.16				V		35		wh, Qtz mi		PR						
BHUA-05	617.20				hJ		65		wh		PR						
BHUA-05	617.25				HB												
BHUA-05	617.26	617.30			hJs	x2	65	70	pale gy, wh		PR						
BHUA-05	617.33				J		60			CN	PR						
BHUA-05	617.38				hJ		20		wh, pale gy		UN						
BHUA-05	617.41	617.43			hJ		30	40	wh, pale gy		UN						
BHUA-05	617.48	617.50			hJs	x2	60		wh, pale gy		PR						
BHUA-05	617.55				hJ		55		wh, pale gy		UN						
BHUA-05	617.57				hJ		65		wh, pale gy		UN						
BHUA-05	617.58	617.60			hJs		5	10	wh, pale gy		UN						
BHUA-05	617.60	618.00			hJs	x10	55	65	wh, pale gy		UN						
BHUA-05	617.65				J		10			CN	UN	RF					
BHUA-05	617.79				hJ		20		wh, pale yl		UN						
BHUA-05	618.03				hJ		10		wh, pale yl		PR						
BHUA-05	618.06	618.12			hJs	/SZ x4	50	65	wh, pale yl		PR						multiple defects, 5-10mm displacement
BHUA-05	618.10				hJ		65		wh, pale yl		PR						
BHUA-05	618.12				J		15			SN	PR	RF					
BHUA-05	618.18				J		20		pale gy	SN	UN	RF					
BHUA-05	618.20				hJ		70		pale gy, wh		PR						
BHUA-05	618.22	618.40			hJs	x5	50	65	pale gy, wh		UN						
BHUA-05	618.32	618.38			hJs	/SZ x7	10	30	pale gy, wh		UN						multiple defects, 5-10mm displacement

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Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	618.41				hJ		20		pale gy, wh		UN						
BHUA-05	618.43	618.52			hJs	/SZ x5	65	75	pale gy, wh		PR						multiple defects, 5-10mm displacement
BHUA-05	618.50				J		30			CN	UN	RF					
BHUA-05	618.53				hJ		10		pale gy, wh		UN						
BHUA-05	618.54	618.66			hJ		70	90	pale gy, wh		UN						
BHUA-05	618.56	618.70			hJ		65		pale gy, wh		PR						
BHUA-05	618.66				hJ		10		pale gy, wh		PR						
BHUA-05	618.70	618.95			hJ		70	80	pale gy, wh		UN						
BHUA-05	618.76				hJ		60		pale gy, wh		UN						
BHUA-05	618.80				J		30		pale gy, wh	VN	UN						
BHUA-05	618.89				J		5	10	pale gy, wh	VN	IR						
BHUA-05	618.92	619.00			hJs	x5	60	70	pale gy, wh		UN						
BHUA-05	618.98				hJ		30		pale gy, wh		PR						
BHUA-05	619.00	619.15			hJ	x2	80		pale gy, wh		PR						
BHUA-05	619.03	619.06			hJs	x2	10	15	pale gy, wh		UN						
BHUA-05	619.17				hJ		50		pale gy, wh		PR						
BHUA-05	619.28	619.35			Js	x3	30	50	pale gy, wh	VN	UN	RF					
BHUA-05	619.35	620.10			EW				pale yl, wh, gy								extremely weathered and strongly deforemed and recemented
BHUA-05	619.38				J		40		pale gy, wh	VN	UN	RF					
BHUA-05	619.40	620.10			hJs	x10	30	45	pale yl, wh, gy		PR-UN						
BHUA-05	619.61	619.75			SZ		90				PR						approximately 20-30mm vertical deflection
BHUA-05	620.05				hJs		10		pale yl, wh, gy		PR-UN	RF					
BHUA-05	620.10	620.13			Js	x3	60	70	pale yl, wh, gy	VN	PR-UN	RF					
BHUA-05	620.14	620.41			SZ		70				PR						approximately 30-40mm vertical deflection
BHUA-05	620.24	620.40			hJ		60	70	pale yl, wh, gy		PR-UN						
BHUA-05	620.55	620.60			Js	x2	70		pale yl, wh, gy	CT	UN	RF					
BHUA-05	620.60				V		20		wh, pale yl		PR						
BHUA-05	620.65				J		45		pale gy	SN	PR						
BHUA-05	620.70				J		60		pale gy	SN	PR						
BHUA-05	620.75	620.90			hJs	x3	10	30	pale gy		PR						
BHUA-05	620.90				V		30		wh, Qtz	CT	PR						
BHUA-05	620.92				J		30			SN	PR						
BHUA-05	621.05				hJ		50		wh, pale gy		PR						
BHUA-05	621.12	621.16			hJs	x3	10	20	wh, pale gy		PR						
BHUA-05	621.16	621.44			SZ		75				UN						5-10mm vertical deflection, healed
BHUA-05	621.17	621.45			hJ		70		wh, pale gy		PR						
BHUA-05	621.30	621.38			hJs	x3	45	60	wh, pale gy		PR						
BHUA-05	621.48	621.50			hJs		20	30	wh, pale gy		PR						
BHUA-05	621.50	621.62			hJ		70		wh, pale gy		PR						
BHUA-05	621.58				J		45		wh, pale gy	SN	PR						
BHUA-05	621.65	621.80			hJs		20	30	wh, pale gy		UN						
BHUA-05	621.68	621.70			hJ		30	35	wh, pale gy		UN						
BHUA-05	621.75	621.78			J		10	30	pale gy	SN	UN	RF					
BHUA-05	621.80	921.90			hJ		85	90	wh, pale gy		UN						
BHUA-05	621.88				J		20		wh, pale gy	VN	UN						
BHUA-05	621.93				hJ		45		wh, pale gy		PR						
BHUA-05	622.01				hJ		10		wh, pale gy		PR						
BHUA-05	622.05				hJ		45		wh, pale gy		PR						
BHUA-05	622.08				hJ		10		wh, pale gy		UN						
BHUA-05	622.15	622.21			hJs	x2	40	45	wh, pale gy		UN						
BHUA-05	622.22	622.25			hJs	x2	70	90	wh, pale gy		UN						
BHUA-05	622.24	622.38			SZ		70				CU						30mm vertical deflection, healed
BHUA-05	622.25	622.40			hJ		60		wh, pale gy		UN						
BHUA-05	622.27				hJ		10		wh, pale gy		UN						
BHUA-05	622.35				J		15			SN	PR	RF					
BHUA-05	622.38				J		10		wh, pale gy	SN	UN						
BHUA-05	622.65	623.00			hJs	x5	20	35	pale gy, gn		UN-PR						
BHUA-05	622.83				J		30		pale gy, gn	SN	UN	RF					
BHUA-05	622.96	622.96			J	x2	35	40	pale gy, gn	SN	UN	RF					
BHUA-05	623.00	623.25			hJs	x3	60	70	pale gy, gn		UN-PR						
BHUA-05	623.37				J		10		pale gy, gn	SN	PR						
BHUA-05	623.53				hJ		40		wh, gy		PR						
BHUA-05	623.57	623.75			V		70		wh Qtz	VN	PR						
BHUA-05	623.70				J		45		pale gy, gn	SN	PR						
BHUA-05	623.83	623.85			V		30		wh Qtz	CT	UN						
BHUA-05	623.85	623.99			SZ		80				PR						10mm deflection, healed
BHUA-05	623.90	624.00			J		65		pale gy	SN	PR						
BHUA-05	623.94				V		30		wh, Qtz	VN	UN						
BHUA-05	624.06	624.90			hJs		30	45	wh, pale gy, yl		UN						
BHUA-05	624.22	624.24			V		10	20	wh, Qtz	VN	UN						
BHUA-05	624.25	624.65			SZ		70										multiple sheared surfaces, 30-100mm spacing, 5mm vertical defelection, healed
BHUA-05	624.30	624.38			hJs	x3	5	10	wh, Qtz		UN						
BHUA-05	624.65				J		10			SN	PR	RF					
BHUA-05	624.85				SZ		70										20mm deflection, healed
BHUA-05	624.85	624.87			hJ	x2	55	65	pale gy, wh		PR	RF					
BHUA-05	624.94				J		10		pale gy, wh	SN	PR	RF					
BHUA-05	625.00	626.00			hJs	x10	30	45	pale gy, wh		PR-UN						
BHUA-05	625.18	625.22			hJs		10	20	pale gy, wh		PR-UN						
BHUA-05	626.07				hJ		45		pale gy, wh		PR-UN						

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Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	626.22				hJ		30		pale gy, wh		PR						
BHUA-05	626.23				hJ		30		pale gy, wh		PR						
BHUA-05	626.27				hJ		10		pale gy, wh		PR						
BHUA-05	626.37				hJ		10		pale gy, wh		PR						
BHUA-05	626.40	626.45			hJs	x2	50	70	pale gy, wh		UN-PR						
BHUA-05	626.60				hJ		45		pale gy, wh		UN						
BHUA-05	626.65				J		50			SN	PR						
BHUA-05	626.72	626.76			V		30	35	pale gy, wh, pale pk		PR						
BHUA-05	626.74				J		15			CN	UN	RF					
BHUA-05	626.96				hJ		15		pale gy		PR						
BHUA-05	627.05				hJ												
BHUA-05	627.21				hJ		30		pale gy		PR						
BHUA-05	627.25				hJ		45		pale gy		PR						
BHUA-05	627.30				hJ	x2	45		pale gy		PR						
BHUA-05	627.92				hJ		55				PR						
BHUA-05	627.97				hJ		20				PR						
BHUA-05	627.98				hJ		60				PR						
BHUA-05	628.03				hJ		55				IR						
BHUA-05	628.13				hJ		20				PR						
BHUA-05	628.28				hJ		55				PR						
BHUA-05	628.31				hJ		40				PR						
BHUA-05	628.35				hJ		60				PR						
BHUA-05	628.39				hJ		20				PR						
BHUA-05	628.45				hJ		75				PR						
BHUA-05	628.48				hJ		65				PR						
BHUA-05	628.55				V		50				IR			4			
BHUA-05	628.61				hJ		35				PR						
BHUA-05	628.63				V		55				PR			6			
BHUA-05	628.67				hJ		55				IR						
BHUA-05	628.68				hJ		15				PR						
BHUA-05	628.75				hJ		75				PR						
BHUA-05	628.79				hJ		60				PR						
BHUA-05	628.88				hJ		55				PR						
BHUA-05	628.90	629.00			Js	x2	15			CN	UN	SM					
BHUA-05	629.03				V		15				PR			3			
BHUA-05	629.25				V		45				PR			3			
BHUA-05	629.30				hJ		40				PR						
BHUA-05	629.37				hJ		40				PR						
BHUA-05	629.42				hJ		20				PR						
BHUA-05	629.44				hJ		60				IR						
BHUA-05	629.45				hJ		80				PR						
BHUA-05	629.46				V		15				PR			2			
BHUA-05	629.60				V		65				IR			5			
BHUA-05	629.64				V		75				PR			6			
BHUA-05	629.67				V		45				PR			2			
BHUA-05	629.82				V		50				PR			2			
BHUA-05	629.85				hJ		35				PR						
BHUA-05	629.89				hJ		55				PR						
BHUA-05	629.91				hJ		90				PR						
BHUA-05	629.94				hJ		40				PR						
BHUA-05	630.17				hJ		10		pale gy, wh		ST						
BHUA-05	630.17	630.46			SZ		85										5-10mm deflection, healed
BHUA-05	630.18	630.47			hJ		85		pale gy, wh		PR						
BHUA-05	630.41	630.42			hJs	x2	60	70	pale gy, wh		UN						
BHUA-05	630.47				J		30		pale gy, wh	SN	PR	RF					
BHUA-05	630.51				hJ		20		pale gy, wh		PR						
BHUA-05	630.55	630.75			hJ		70		pale gy, wh		PR						
BHUA-05	630.62				J		40		pale gy, wh	SN	PR	RF					
BHUA-05	630.79				hJ		30		pale gy, wh		PR						
BHUA-05	630.82				hJ		5		pale gy, wh		PR						
BHUA-05	630.84				hJ		20		pale gy, wh		IR						
BHUA-05	631.03				J		20			SN	PR						
BHUA-05	631.06				hJ		60		pale gy		PR						
BHUA-05	631.08				hJ		30		pale gy		PR						
BHUA-05	631.15				V		40		pale gy, wh		PR						
BHUA-05	631.25				hJ		65		pale gy, wh		PR						
BHUA-05	631.35				hJ		55		wh, pale yl		UN						
BHUA-05	631.36				SZ		30				PR						10mm deflection, healed
BHUA-05	631.46				hJ		10		wh, pale yl		UN						
BHUA-05	631.58	631.75			hJs	x4	10	20	wh, pale yl		PR						
BHUA-05	631.60	631.75			hJ		60		wh, pale yl		PR						
BHUA-05	631.92				hJ		30		wh, pale yl		PR						
BHUA-05	632.00	633.00			hJs		65	75	wh, pale yl		PR-UN						
BHUA-05	632.35	632.37			hJs		35	40	wh, pale yl		PR						
BHUA-05	632.45				hJ		20		wh, pale yl		PR						
BHUA-05	632.50				hJ		50		wh, pale yl		PR						
BHUA-05	632.70				hJ		10		wh, pale yl		PR						
BHUA-05	633.00	633.15			hJs	x3	40	50	wh, pale yl		PR						
BHUA-05	633.20	633.23			hJ		60		wh, pale yl		PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	633.55				hJ		50		wh, pale yl		PR						
BHUA-05	633.63				hJ		50		wh, pale yl		PR						
BHUA-05	633.75				hJ		45		wh, pale yl		PR						
BHUA-05	633.85	633.94			hJs	x3	20	35	wh, pale yl		PR						
BHUA-05	633.90				hJ		50		wh, pale yl		PR						
BHUA-05	634.05				hJ		50		wh, pale yl		UN						
BHUA-05	634.10				hJ		40		wh, pale yl		PR						
BHUA-05	634.20				hJ		60		wh, pale yl		PR						
BHUA-05	634.21				hJ		65		wh, pale yl		PR						
BHUA-05	634.25				hJ		60		wh, pale yl		PR						
BHUA-05	634.33	634.37			hJs	x3	10	15	wh, pale yl		UN						
BHUA-05	634.50	634.56			hJs	x2	45	55	wh, pale yl		PR	RF					
BHUA-05	634.67				J		50			SN	PR	RF					
BHUA-05	634.80	634.81			V		40		wh, pale br Qtz		PR						
BHUA-05	635.00	635.20			hJ		65	7	wh, pale br Qtz		UN						
BHUA-05	635.17				J		10			SN	PR	RF					
BHUA-05	635.25	635.37			hJs	x4	50	60	pale gy, wh		PR	RF					
BHUA-05	635.26				J		45		pale gy	SN	PR	RF					
BHUA-05	635.47	635.55			V		45	55	wh, pale yl, Qtz		UN						
BHUA-05	635.64				hJ		40		pale gy, wh		PR						
BHUA-05	635.70	636.00			hJs	x10	30	50	pale gy, wh		UN						
BHUA-05	635.76				J		10		dark gy	SN	PR						
BHUA-05	636.00	636.06			hJs	x2	60		pale gy, wh		PR						
BHUA-05	636.14	636.17			hJs	x2	45		pale gy, wh		PR						
BHUA-05	636.22				hJ		10				PR						
BHUA-05	636.25	636.62			hJs	x20	40	60	pale gy, wh		PR						
BHUA-05	636.65				J		30		br	SN	PR						
BHUA-05	636.90				J		70			SN	UN	RF					
BHUA-05	637.05				hJ		55		pale yl, wh		PR						
BHUA-05	637.16				hJ		35		pale yl, wh		UN						
BHUA-05	637.20				hJ		80	90	pale yl, wh		UN						
BHUA-05	637.25	637.28			hJs	x3	35	40	pale yl, wh		UN						
BHUA-05	637.31				hJ		5		pale yl, wh		UN						
BHUA-05	637.32				J		10			SN	UN						
BHUA-05	637.46				hJ		40		pale gy, wh		UN						
BHUA-05	637.54				hJ		20		pale gy, wh		UN						
BHUA-05	637.57				hJ		55		pale gy, wh		UN						
BHUA-05	637.63				hJ		70		pale gy, wh		UN						
BHUA-05	637.73				hJ		10		pale gy, wh		PR						
BHUA-05	637.80				hJ		40		pale gy, wh		UN						
BHUA-05	637.82	837.60			hJ		70		pale gy, wh		PR						
BHUA-05	637.86				hJ		50		pale gy, wh		UN						
BHUA-05	637.90				hJ		40		pale gy, wh		UN						
BHUA-05	637.98				J		20		br	VN	UN						
BHUA-05	638.02				hJ		30		pale yl, wh		UN						
BHUA-05	638.05				hJ		40		pale yl, wh		UN						
BHUA-05	638.07				hJ		40		pale yl, wh		UN						
BHUA-05	638.15	638.18			hJs	x3	50	60	pale yl, wh		UN						
BHUA-05	638.18				hJ		60		pale yl, wh		UN						
BHUA-05	638.25				hJ		50		pale yl, wh		UN						
BHUA-05	638.26	638.30			hJ	x2	85		pale yl, wh		UN						
BHUA-05	638.27	638.32			hJs	x3	30	35	pale yl, wh		UN						
BHUA-05	638.45				hJ		60		pale yl, wh		PR						
BHUA-05	638.52	638.55			hJs	x2	50	55	pale yl, wh		PR						
BHUA-05	638.58				hJ		30		pale yl, wh		PR						
BHUA-05	638.65	638.80			hJs		40	45	pale yl, wh		UN						
BHUA-05	638.80				J		20		pale yl, wh	SN	PR						
BHUA-05	638.90	638.95			hJs	x5	50	60	pale yl, wh		PR						
BHUA-05	639.00	639.10			hJs		20	30	pale yl, wh		PR						
BHUA-05	639.10	639.23			hJs	x6	45	65	pale yl, wh		PR						
BHUA-05	639.72				hJ		50		pale yl, wh		PR						
BHUA-05	639.80	639.90			hJs	x3	60	70	pale yl, wh		UN						
BHUA-05	640.06				hJ		70		dark gy		UN						
BHUA-05	640.68				hJ		60		pale yl, wh		PR						
BHUA-05	640.80	640.86			hJs	x4	20	30	pale yl, wh		PR						
BHUA-05	641.00	641.08			hJs	x3	70	80	pale yl, wh		PR						
BHUA-05	641.15				hJ		15		pale yl, wh		PR						
BHUA-05	641.20	641.40			hJs	x4	60	70	pale yl, wh		PR						
BHUA-05	641.50	641.90			hJs	x3	60	75	pale yl, wh		PR						
BHUA-05	641.52				J		10		br		UN						
BHUA-05	641.80				hJ		60		pale gy, wh		UN						
BHUA-05	642.06				hJ		60		pale gy, wh		PR						
BHUA-05	642.23				hJ		45		pale gy, wh		PR						
BHUA-05	642.43				hJ		60		pale gy, wh		PR						
BHUA-05	642.47				hJ		70		pale gy, wh		PR						
BHUA-05	642.60				hJ		60		pale gy, wh		PR						
BHUA-05	642.70				hJ		25		pale gy, wh		PR						
BHUA-05	642.77				hJ		50		pale gy, wh		PR						
BHUA-05	642.85	642.95			hJ	x2	60	70	pale gy, wh		PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	643.03				hJ		50		pale gy, wh		PR						
BHUA-05	643.06	643.20			hJ		70		pale gy, wh		PR						
BHUA-05	643.22				hJ		60		pale gy, wh		PR						
BHUA-05	643.23				hJ		50		pale gy, wh		PR						
BHUA-05	643.50				hJ		70		pale gy, wh		ST						
BHUA-05	643.60				hJ		60		pale gy, wh		UN						
BHUA-05	643.75	644.00			hJs	x5	50	60	pale gy, wh		PR						
BHUA-05	644.06				hJ		70		pale gy, wh		PR						
BHUA-05	644.12				hJ		60		pale gy, wh		PR						
BHUA-05	644.30	644.40			hJs	x2	50	60	pale gy, wh		PR						
BHUA-05	644.50				hJ		30		pale gy, wh		PR						
BHUA-05	645.25				hJ		60		pale gy, wh		PR						
BHUA-05	645.37				V		60		pk,		PR						
BHUA-05	645.42				hJ		45		pale gy, wh		PR						
BHUA-05	645.48				hJ		45		pale gy, wh		PR						
BHUA-05	645.55				hJ		50		pale gy, wh		PR						
BHUA-05	645.58				hJ		60		pale br, gy		PR						
BHUA-05	645.84				hJ		10		pale br, gy		PR						
BHUA-05	645.87				hJ		40		pale br, gy		PR						
BHUA-05	646.00	646.10			hJs	x2	70	80	pale br, gy		PR						
BHUA-05	646.10				hJ		60		pale gy, wh		PR						
BHUA-05	646.13	646.25			hJs	x3	50	60	pale br, gy		PR						
BHUA-05	646.18	646.30			SZ		60				PR						>70mm deflection, healed
BHUA-05	646.26	646.28			hJs	x2	10	20	pale br, gy		PR						
BHUA-05	646.40				hJ		10		pale br, gy		PR						
BHUA-05	646.52				hJ		10		dark gy		PR						
BHUA-05	646.58				hJ		60		pale gy, wh		PR						
BHUA-05	646.60				hJ		20		dark gy		PR						
BHUA-05	646.66				hJ		60		pale gy, wh		PR						
BHUA-05	646.67				hJ		30		pale gy, wh		PR						
BHUA-05	646.79				J		10		br	SN	PR						
BHUA-05	647.10				hJ		70		pale gy, wh		PR						
BHUA-05	647.12				J		10		pale gy, wh		UN						
BHUA-05	647.15	647.20			hJs	x2	60	70	pale gy, wh		UN						
BHUA-05	647.34				hJ		80		pale gy, pk		PR						
BHUA-05	647.45				hJ		40		pale gy, wh		PR						
BHUA-05	647.47	647.51			hJ	x2	60		pale gy, wh		PR						
BHUA-05	647.52				J		45		pale gy, wh	SN	PR						
BHUA-05	647.57				hJ		40		pale gy, wh		PR						
BHUA-05	647.62				hJ		40		pale gy, wh		PR						
BHUA-05	647.67				hJ		75		pale gy, wh		PR						
BHUA-05	647.70				hJ		45		pale gy, wh		PR						
BHUA-05	647.93	647.97			hJs	x2	50	60	pale gy, wh		PR						
BHUA-05	648.02				hJ		40		pale gy, wh		PR						
BHUA-05	648.06				hJ		50		pale gy, wh		PR						
BHUA-05	648.12	648.18			hJs	x2	60	70	pale gy, wh		UN						
BHUA-05	648.15				hJ		85	90	pk		PR						
BHUA-05	648.25				hJ		65		pale gy, wh		UN						
BHUA-05	648.27	648.33			hJs	x3	15	30	pale gy, wh		UN						
BHUA-05	648.37				hJ		50		pale gy, wh		UN						
BHUA-05	648.38				hJ		5		pale gy, wh		PR						
BHUA-05	648.55	648.82			hJs	x5	30	45	pale gy, wh		UN						
BHUA-05	648.97				J		60		pale gy	SN	PR						
BHUA-05	649.04				hJ		40		pale gy, wh		UN						
BHUA-05	649.08				J		30		pale gy	SN	UN						
BHUA-05	649.18				hJ		10		pale gy, wh		UN						
BHUA-05	649.21				hJ		60		pale gy, wh		PR						
BHUA-05	649.26				hJ		30		pale gy, wh		PR						
BHUA-05	649.32				hJ		50		pale gy, wh		PR						
BHUA-05	649.38				hJ		60		pale gy, wh		PR						
BHUA-05	649.50				hJ		55		pale gy, wh		UN						
BHUA-05	649.63	649.70			hJs	x4	25	40	pale gy, wh		PR						
BHUA-05	649.64				hJ		60		pale gy, wh		PR						
BHUA-05	650.00				hJ		30		pale gy, wh		PR						
BHUA-05	650.15				hJ		50		pale gy, wh		PR						
BHUA-05	650.23				hJ		20		pale gy, wh		PR						
BHUA-05	650.33	650.37			hJs	x2	30	45	pale gy, wh		PR						
BHUA-05	650.70	650.75			hJs	x3	45		pale gy, wh		PR						
BHUA-05	650.82	650.86			hJs	x2	60	80	pale gy, wh		PR						
BHUA-05	650.95	651.15			hJ		75		pale gy, wh		PR						5-10mm deflection, healed
BHUA-05	651.06				hJ		70		pale gy, wh		PR						
BHUA-05	651.07	651.12			hJs	x2	10	20	pale gy, wh		PR						
BHUA-05	651.16	651.25			hJs	x2	50	60	pale gy, wh		PR						
BHUA-05	651.30	651.35			hJs	x3	45	50	pale gy, wh		PR						
BHUA-05	651.42				hJ		55		pale gy, wh		PR						
BHUA-05	651.47				hJ		85		pk		UN						
BHUA-05	651.57				hJ		45		pale gy, wh		PR						
BHUA-05	651.60	651.90			hJ		70		br, pk, pale gy, wh		PR						
BHUA-05	652.15				J		60		pk	SN	PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	652.23				hJ		35		pale gy, wh		UN						
BHUA-05	652.30				hJ		85		pk, br,pale gy, wh		PR						
BHUA-05	652.45				hJ		80	90	pk, br,pale gy, wh		UN						
BHUA-05	652.55	652.65			hJs	x2	50	60	pk, br,pale gy, wh		UN						
BHUA-05	652.56				J		5				IR	RF					
BHUA-05	652.80	652.95			hJs	x3	50	70	pk, br,pale gy, wh		UN						
BHUA-05	653.00	653.20			hJs	x2	40	50	pk, br,pale gy, wh		PR						
BHUA-05	653.30				J		30		pk, br,pale gy, wh	SN	IR						
BHUA-05	653.37				hJ		50		pale gy, wh		UN						
BHUA-05	653.85				hJ		70		pale gy, wh		PR						
BHUA-05	653.96				hJ		70		pale gy, wh		PR						
BHUA-05	654.05				hJ		30		pale gy, wh		PR						
BHUA-05	654.12				hJ		50		pale gy, wh		PR						
BHUA-05	654.18	654.30			hJs	x2	60		pale gy, wh		PR						
BHUA-05	654.25				hJ		85		pale gy, wh		PR						
BHUA-05	654.44				hJ		30		pale gy, wh		PR						
BHUA-05	654.60				hJ		60		pale gy, wh		PR						
BHUA-05	654.77				hJ		10		pale gy, wh		PR						
BHUA-05	654.90				hJ		70		pale gy, wh		PR						
BHUA-05	654.95				hJ		80	85	pale gy, wh		PR						
BHUA-05	655.12	655.25			Js	x3	80	85	pale gy, wh	VN	PR	RF					
BHUA-05	655.24				hJ		80		pale gy, wh		PR						
BHUA-05	655.60				hJ		70		pale gy, wh		PR						
BHUA-05	655.62				J		10			SN	UN	RF					
BHUA-05	655.75	656.00			hJ		80		pale pk, br		UN						
BHUA-05	656.00	656.15			hJ		80		pale gy, wh		UN						
BHUA-05	656.12				hJ		60		pale gy, wh		PR						
BHUA-05	656.30				J		20		pale gy	SN	PR						
BHUA-05	656.45				hJ		45		pale gy, wh		PR						
BHUA-05	656.80				hJ		80	90	pale gy, wh		PR						
BHUA-05	657.00	657.15			hJ		70		pale gy		UN						
BHUA-05	657.20	657.40			hJ		80		pale gy		PR						
BHUA-05	657.44				hJ		45		pale gy		PR						
BHUA-05	657.67				hJ		35		pale gy		PR						
BHUA-05	658.00	658.13			hJs	x2	60		pale gy, wh		PR						
BHUA-05	658.32				J		70		pale gy	VN	PR						
BHUA-05	658.40	658.75			hJ		80	90	wh		UN						
BHUA-05	658.90	659.00			hJs	x2	70	80	wh, pale gy		UN						
BHUA-05	659.02				hJ		70		wh, pale gy		PR						
BHUA-05	659.06				hJ		20		wh, pale gy		PR						
BHUA-05	659.30				hJ		70		wh, pale gy		UN						
BHUA-05	659.55				hJ	x3	50	65	wh, pale gy		PR-UN						
BHUA-05	659.80	659.90			hJs	x2	30	45	wh, pale gy		PR						
BHUA-05	660.15				DB												
BHUA-05	660.16	660.20			hJs	x2	40	50	pale gy, wh		UN						
BHUA-05	660.45	660.95			hJ		75	90	pale gy, wh		UN						
BHUA-05	660.48				hJ		70		pale gy, wh		PR						
BHUA-05	660.62				hJ		60		pale gy, wh		UN						
BHUA-05	660.63				J		50		pale gy, wh	VN	UN						
BHUA-05	660.80				hJ		40		pale gy, wh		UN						
BHUA-05	661.00				hJ		45		pale gy, wh		PR						
BHUA-05	661.10				hJ		65		pale gy, wh		PR						
BHUA-05	661.17	661.35			hJs	x3	20	30	pale gy, wh		PR						
BHUA-05	661.23				hJ		65		pale gy, wh		UN						
BHUA-05	661.55				hJ		70		pale gy, wh		PR						
BHUA-05	661.80				hJ		20		pale gy, wh		PR						
BHUA-05	661.87				hJ		60		pale gy, wh		PR						
BHUA-05	662.15				hJ		65		wh, pale gy		UN						
BHUA-05	662.18	662.22			hJs	x2	10	20	wh, pale gy		UN						
BHUA-05	662.32				hJ		20		wh, pale gy		UN						
BHUA-05	662.45				V		40		pale gy, wh Qtz		UN						
BHUA-05	662.50				J		45		pale gy	SN	PR						
BHUA-05	662.60				hJ		50		pale gy, wh		UN						
BHUA-05	662.70				hJ		40		pale gy, wh		UN						
BHUA-05	662.80				hJ		60		pale gy, wh		PR						
BHUA-05	662.90				hJ		60		pale gy, wh		PR						
BHUA-05	663.22	663.25			hJs	x3	70	80	pale gy, wh		UN						
BHUA-05	663.55				hJ		5		pale gy, wh		UN						
BHUA-05	663.60				hJ		75		pale gy, wh		UN						
BHUA-05	663.75				hJ		20		pale gy, wh		UN						
BHUA-05	663.85				J		45		pale gy, wh	SN	PR						
BHUA-05	663.90	664.00			hJ		85	90	pale gy, wh		PR						
BHUA-05	664.04				hJ		40		pale gy, wh		PR						
BHUA-05	664.20				J		60		pale gy, wh	VN	CU	RF					
BHUA-05	664.37				hJ		60		pale gy, wh		PR						
BHUA-05	664.41				hJ		50		pale gy, wh		PR						
BHUA-05	664.49				J		30		pale gy, wh	SN	UN						
BHUA-05	664.50	664.70			hJs	x4	50	60	pale gy, wh		UN						
BHUA-05	664.83				hJ		70		pale gy, wh		UN						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	664.95				HB												
BHUA-05	665.00	665.10			hJ		70	80	pale gy, yl, wh		UN						
BHUA-05	665.08				hJ		30		pale gy, yl, wh		PR						
BHUA-05	665.15				J		40		pale gy, yl, wh	SN	UN						
BHUA-05	665.30				hJ		45		pale gy, yl, wh		PR						
BHUA-05	665.42				hJ		30		pale gy, yl, wh		PR						
BHUA-05	665.46	665.75			hJs	x3	30	40	pale gy, yl, wh		PR						
BHUA-05	665.90				hJ		50		pale gy, yl, wh		PR						
BHUA-05	666.10				hJ		40		pale gy, yl, wh		PR						
BHUA-05	666.22				hJ		5		pale gy		PR						
BHUA-05	666.25	666.36			hJs	x3	70	75	pale gy, wh		UN						
BHUA-05	666.47	666.49			V		70		wh, pale gy		PR						
BHUA-05	666.70				J		50		wh, pale gy	SN	PR						
BHUA-05	666.80				hJ		55		wh, pale gy		UN						
BHUA-05	666.83				J		45		wh, pale gy	VN	UN						
BHUA-05	666.92				hJ		70		wh, pale gy		UN						
BHUA-05	667.23				hJ		40		wh, pale gy		PR						
BHUA-05	668.10				hJ		25		wh, pale gy		PR						
BHUA-05	668.20				J		30		wh, pale gy	SN	PR						
BHUA-05	668.30				hJ		5		wh, pale gy		PR						
BHUA-05	668.45				hJ		10		wh, pale gy		PR						
BHUA-05	668.48				J		10		wh, pale gy	SN	UN						
BHUA-05	668.65	668.75			hJs	x2	25	30	pale gy, wh		UN						
BHUA-05	669.16				J		5		pale gy, wh	SN	PR						
BHUA-05	669.32				hJ		45		pale gy, wh		UN						
BHUA-05	669.38	669.42			hJs	x2	20	30									
BHUA-05	669.45				hJ		30		pale gy, wh		UN						
BHUA-05	669.85				hJs	x2	50		pale gy, wh		PR						
BHUA-05	670.45	670.47			hJs	x2	10		pale gy, wh		PR						
BHUA-05	670.62				hJ		70		pale gy, wh		PR						
BHUA-05	671.40				hJ		40		pale gy, wh		PR						
BHUA-05	671.55				hJ		70		pale gy, wh		PR						
BHUA-05	671.60				hJ		60		pale gy, wh		PR						
BHUA-05	671.80				hJ		20		pale gy, wh		PR						
BHUA-05	672.48				hJ		48		pale gy, wh		PR						
BHUA-05	672.58	672.60			V		60		wh, pale gy, yl		PR						
BHUA-05	672.86				hJ		70		wh, pale gy		PR						
BHUA-05	673.00	673.05			hJs		60	70	wh, pale gy		PR						
BHUA-05	673.07				hJ		20		wh, pale gy		PR						
BHUA-05	673.10	673.30			hJ		70		wh, pale gy		UN						
BHUA-05	673.25				hJ		25		wh, pale gy		UN						
BHUA-05	673.30	673.38			hJ		80		wh, pale gy		UN						
BHUA-05	673.45	673.55			hJ		80		wh, pale gy		PR						
BHUA-05	673.58	673.90			hJs	x2	50	60	wh, pale gy		PR						
BHUA-05	673.62				hJ		30		wh, pale gy		UN						
BHUA-05	673.70				hJ		70	80	wh, pale gy		UN						
BHUA-05	673.81	673.87			hJs	x3	50	60	wh, pale gy		PR-UN						
BHUA-05	674.00	674.26			hJs	x3	30	40	wh, pale gy		PR						
BHUA-05	674.37				J		20			SN	UN						
BHUA-05	674.65	674.95			hJs	x5	35	45	pale gy, wh		PR						
BHUA-05	675.04				V		55				PR	SM					
BHUA-05	675.10				hJ		45		pale gy, wh		PR						
BHUA-05	675.14				hJ		60				PR	SM					
BHUA-05	675.20				hJ		65										
BHUA-05	675.27				hJ		50										
BHUA-05	675.28				hJ		80										
BHUA-05	675.30				hJ		30		pale gy, wh		PR						
BHUA-05	675.30	676.25			hJ		60	90	pale gy, wh	VN	UN						15mm deflection, healed
BHUA-05	675.34				V		65										
BHUA-05	675.60				hJ		50										
BHUA-05	675.70	676.00			hJs	x2	85	90	pale gy, wh		PR						
BHUA-05	676.00	676.20			hJ		80	90	pale gy, wh		UN						
BHUA-05	676.05	676.18			hJs	x2	20	30	pale gy, wh		UN						
BHUA-05	678.02				V		80		wh mi carb-chl-Qtz		IR			3			
BHUA-05	678.20				hJ		50		yl gn		PR						
BHUA-05	678.27				hJ		20		yl gn		PR						
BHUA-05	678.29				V		45		wh mi carb-chl-Qtz		IR			4			
BHUA-05	678.37				hJ		70		gn bk		PR						
BHUA-05	678.51				hJ		70		wh mi carb-chl-Qtz		PR						
BHUA-05	678.62				V		60		wh mi carb-chl-Qtz		PR			30			
BHUA-05	678.80				hJ		45		yl gn		IR						
BHUA-05	678.88				hJ		70		gn bk		PR						
BHUA-05	678.95				hJ		80		gn bk		PR						
BHUA-05	679.09				V		80		wh mi carb-chl-Qtz		IR			3			
BHUA-05	679.10				J		5				IR	RF					
BHUA-05	679.29				hJ		10		yl bk		PR						
BHUA-05	679.33				hJ		10		gn bk		PR						
BHUA-05	679.36				hJ		10		yl bk		PR						
BHUA-05	679.40				V		5		wh mi carb-chl-Qtz		IR			2			

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	679.42				J		5				PR	SM					
BHUA-05	679.43				hJ		80		yl gn		PR						
BHUA-05	679.50				hJ		45		yl gn		PR						
BHUA-05	679.54				hJ		50		yl gn		PR						
BHUA-05	679.56				hJ		45		yl gn		PR						
BHUA-05	679.67				hJ		15		yl gn		PR						
BHUA-05	679.87				hJ		20		yl gn		PR						
BHUA-05	679.93				J		20		yl gn		PR	SM					
BHUA-05	679.96				hJ		5		yl gn		PR						
BHUA-05	679.98				hJ		5		yl gn		PR						
BHUA-05	680.10				hJ		10		bk-gn		PR						
BHUA-05	680.12				hJ		20		yl gn		PR						
BHUA-05	680.15				hJ		10		bk-gn		PR						
BHUA-05	680.17				hJ		25		bk-gn		PR						
BHUA-05	680.23				hJ		40		yl gn		PR						
BHUA-05	680.25				hJ		60		yl gn		PR						
BHUA-05	680.31				hJ		10		yl gn		PR						
BHUA-05	680.34				hJ		10		yl gn		PR						
BHUA-05	680.36				hJ		5		yl gn		PR						
BHUA-05	680.39				hJ		5		yl gn		PR						
BHUA-05	680.41				hJ		10		bk gn		PR						
BHUA-05	680.43				hJ		5		yl gn		PR						
BHUA-05	680.45				hJ		5		yl gn		PR						
BHUA-05	680.51				hJ		5		yl gn		PR						
BHUA-05	680.57				hJ		5		yl gn		PR						
BHUA-05	680.65				hJ		5		yl gn		PR						
BHUA-05	680.71				hJ		30		bk gn		PR						
BHUA-05	680.84				J		10				PR	SM					
BHUA-05	680.96				hJ		40		bk gn		PR						
BHUA-05	680.99				hJ		5		yl gn		PR						
BHUA-05	681.02				hJ		70		bk-gn		PR						
BHUA-05	681.06				hJ		30				PR						
BHUA-05	681.12				hJ		5		bk-gn		PR			10			
BHUA-05	681.17				hJ		15		yl gn		PR						
BHUA-05	681.28				hJ		5				PR						
BHUA-05	681.28				hJ		70		bk-gn		PR						
BHUA-05	681.29				V		10		wh mi carb-chl-Qtz		IR			2			
BHUA-05	681.30				hJ		80		yl gn		PR						
BHUA-05	681.43				V		5		wh mi carb-chl-Qtz		PR			3			
BHUA-05	681.46				V		30		wh mi carb-chl-Qtz		PR			8			
BHUA-05	681.60				hJ		10		bk-gn mi		PR						
BHUA-05	681.62				hJ		70		bk-gn mi		PR						
BHUA-05	681.80				hJ		10		yl gn		PR			60			
BHUA-05	681.96				hJ		20		bk		PR						
BHUA-05	682.06				hJ		75		bk-gn mi		PR						
BHUA-05	682.19				hJ		15		yl gn		PR						
BHUA-05	682.46				hJ		25		yl gn		PR						
BHUA-05	682.56				J		5				IR	RF					
BHUA-05	682.66				hJ		20		bk-gn		PR						
BHUA-05	682.68				hJ		30		bk-gn		PR						
BHUA-05	682.75				hJ		45		bk-gn		PR						
BHUA-05	682.86				hJ		45		bk-gn		PR						
BHUA-05	682.94				hJ		45		bk-gn		PR						
BHUA-05	683.07				V		30		yl gn		IR			15			
BHUA-05	683.18				hJ		60		yl gn		PR						
BHUA-05	683.23				hJ		90		wh mi carb-chl-Qtz		PR						
BHUA-05	683.28				hJ		10		yl gn		PR			15			
BHUA-05	683.38				hJ		20		bk-gn		PR						
BHUA-05	683.44				hJ		20		yl gn		IR			15			
BHUA-05	683.56				hJ		60		yl gn		PR						
BHUA-05	683.60				V		30		wh mi carb-chl-Qtz		IR			4			
BHUA-05	683.80				J		5				IR	RF					
BHUA-05	683.84				hJ		30		bk-gn		PR						
BHUA-05	683.94				hJ		60		yl gn		PR						
BHUA-05	684.04				hJ		5		bk-gn		PR						
BHUA-05	684.05				hJ		45		yl gn		PR						
BHUA-05	684.24				hJ		35		yl gn		PR						
BHUA-05	684.32				hJ		20		yl gn		PR						
BHUA-05	684.43				hJ		30		bk		PR						
BHUA-05	684.46				hJ		50		yl gn		PR						
BHUA-05	684.59				hJ		5		bk gn		PR						
BHUA-05	684.66				hJ		40		yl gn		PR						
BHUA-05	684.66				hJ		70		bk gn		PR						
BHUA-05	684.83				hJ		40		bk gn		IR			20			
BHUA-05	685.05				hJ		20		yl gn		PR						
BHUA-05	685.16				hJ		5		yl gn		PR						
BHUA-05	685.33				hJ		90		yl gn		PR						
BHUA-05	685.38				hJ		5		yl gn		PR						
BHUA-05	685.45				hJ		30		yl gn		IR			40			

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	685.67				hJ		35		bk gn		PR						
BHUA-05	685.74				hJ		30		yl gn		PR						
BHUA-05	685.80				hJ		70		yl gn		PR						
BHUA-05	685.94				hJ		50		yl gn		PR						
BHUA-05	686.05				V		30		wh mi carb-chl-Qtz		PR			5			
BHUA-05	686.19				hJ		70		yl gn		PR						
BHUA-05	686.45				hJ		10		bk gn		PR						
BHUA-05	686.46				hJ		10		bk gn		PR						
BHUA-05	686.52				hJ		60		yl gn		PR						
BHUA-05	686.56				hJ		55		yl gn		PR						
BHUA-05	686.72				hJ		55		yl gn		PR						
BHUA-05	687.00				hJ		90		bk gn		PR						
BHUA-05	687.10				hJ		5		bk gn		PR						
BHUA-05	687.37				hJs		5		yl gn		PR						
BHUA-05	687.49				hJ		20		gn mi		IR			3			
BHUA-05	687.57				V		45		bk gn		PR						
BHUA-05	687.64				hJ		10		bk gn		PR						
BHUA-05	687.70				hJ		45		bk gn		PR						
BHUA-05	687.75				hJ		40		yl gn		PR						
BHUA-05	687.84				hJ		40		yl gn		PR						
BHUA-05	688.05				hJ		45		bk gn		PR						
BHUA-05	688.14				hJ		40		bk gn		PR						
BHUA-05	688.24				hJ		45		bk gn		PR						
BHUA-05	688.33				hJ		50		yl gn		PR						
BHUA-05	688.36				hJ		10		bk gn		PR						
BHUA-05	688.47				hJ		5		bk gn		IR						
BHUA-05	688.53				hJ		25		yl gn		PR						
BHUA-05	688.66				V		60		bk		PR						
BHUA-05	688.70				J		5			VN	IR						
BHUA-05	688.71				V		90		bk yl		CU	RF					
BHUA-05	689.00				hJ		30		yl gn		IR						
BHUA-05	689.33				V		30		wh mi carb-chl-Qtz		IR			3			
BHUA-05	689.40				hJ		60		bk gn		PR						
BHUA-05	689.43				J		30		yl gn	VN	IR			20			
BHUA-05	689.55				J		30		yl gn	VN	IR			60			
BHUA-05	689.72				V		90		wh mi carb-chl-Qtz		IR			4			
BHUA-05	689.83				V		60		wh mi carb-chl-Qtz		IR			2			
BHUA-05	689.94				V		90		wh mi carb-chl-Qtz		IR						
BHUA-05	690.00				V		80		yl gn		IR						
BHUA-05	690.30				hJ		20		bk		PR						
BHUA-05	690.34				hJ		10		yl gn		PR						
BHUA-05	690.38				hJ		80		wh mi carb-chl-Qtz		PR			2			
BHUA-05	690.40				V		90		bk		IR						
BHUA-05	690.41				hJ		5		bk		PR						
BHUA-05	690.60				J		80		wh mi carb-chl-Qtz	VN	PR	SM		4			
BHUA-05	690.64				hJ		60		wh mi carb-chl-Qtz		PR			3			
BHUA-05	690.74				V		40		bk	VN	IR						
BHUA-05	690.75	691.10			J		80		wh mi carb-chl-Qtz	VN	PR			3			>50mm defelction
BHUA-05	690.82				V		45		bk		IR			3			
BHUA-05	690.87				J		5				IR	SM					
BHUA-05	691.09				hJ		10		bk gn		PR						
BHUA-05	691.13				hJ		30		bk gn		PR						
BHUA-05	691.15				V		80		wh mi carb-chl-Qtz		IR			3			
BHUA-05	691.56				hJ		60		bk gn		PR						
BHUA-05	691.67				V		30		wh mi carb-chl-Qtz		IR			3			
BHUA-05	691.70				hJ		30		yl gn		IR						
BHUA-05	691.73				V		15		wh mi carb-chl-Qtz		IR			3			
BHUA-05	691.77				V		20		wh mi carb-chl-Qtz		IR			3			
BHUA-05	691.86				V		10		wh mi carb-chl-Qtz		IR			3			
BHUA-05	691.92				V		30		wh mi carb-chl-Qtz		IR			3			
BHUA-05	692.14				V		30		bk gn		IR			5			
BHUA-05	692.30				V		30		wh mi carb-chl-Qtz		IR			3			
BHUA-05	692.31				V		30		wh mi carb-chl-Qtz		IR			3			
BHUA-05	692.48				hJ		45		bk gn		PR						
BHUA-05	692.48				hJ		30		yl gn		IR						
BHUA-05	692.59				hJ		20		yl gn		PR						
BHUA-05	692.63				hJ		20		yl gn		PR						
BHUA-05	692.74				hJ		30		yl gn		PR						
BHUA-05	692.79				hJ		15		yl gn		PR						
BHUA-05	692.85				hJ		30		yl gn		PR						
BHUA-05	692.87				hJ		30		bk gn		PR						
BHUA-05	693.00				V		50		wh mi carb-chl-Qtz		IR			4			
BHUA-05	693.15				hJ		30		bk		PR						
BHUA-05	693.18				hJ		20				PR						
BHUA-05	693.23				hJ		30		yl gn		PR						
BHUA-05	693.23				hJ		70		yl gn		PR						
BHUA-05	693.24				hJ		60		bk		PR			30			
BHUA-05	693.28				hJ		40		yl gn		IR						
BHUA-05	693.41				hJ		50		yl gn		PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	693.53				hJ		5		yl gn		PR						
BHUA-05	693.56				V		50		wh mi carb-chl-Qtz		PR			3			
BHUA-05	693.57				hJ		90		yl gn bk		PR						
BHUA-05	693.64				hJ	x3	5		bk		IR						
BHUA-05	693.65				hJ		60		bk		PR						
BHUA-05	693.70				V		50		wh mi carb-chl-Qtz		IR			5			
BHUA-05	693.72				hJ		20		bk gn		PR						
BHUA-05	693.81				hJ		50		bk		PR						
BHUA-05	693.85				hJ		30		yl gn		PR						
BHUA-05	693.90				hJ		45		yl gn		PR						
BHUA-05	694.00				V		35		wh mi carb-chl-Qtz		IR			20			
BHUA-05	694.08				hJ		20		bk		PR						
BHUA-05	694.12				V		20		wh mi carb-chl-Qtz		PR			5			
BHUA-05	694.25				hJ		20		yl gn		PR						
BHUA-05	694.30				V		60		wh mi carb-chl-Qtz		IR			3			
BHUA-05	694.34				hJ		5				PR						
BHUA-05	694.35				hJ		50		bk gn		PR						
BHUA-05	694.40				V		20		wh mi carb-chl-Qtz		IR			4			
BHUA-05	694.42				hJ		50		bk gn		IR						
BHUA-05	694.52				hJ		60		yl gn		IR						
BHUA-05	694.56				hJ		30		yl gn		PR						
BHUA-05	694.59				hJ		50				PR						
BHUA-05	694.71				V		5		wh mi carb-chl-Qtz		IR			15			
BHUA-05	694.75				hJ		60		bk gn		PR						
BHUA-05	694.81				hJ	x2	5		yl gn		PR						
BHUA-05	694.84				V	x2	40		bk gn		IR			3			
BHUA-05	694.88				hJ		5		yl gn		PR						
BHUA-05	694.90				hJ		10		yl gn		PR						
BHUA-05	694.95				hJ		20		yl gn		PR						
BHUA-05	695.00				hJ	x3	70		yl gn		IR						
BHUA-05	695.09				V		20		wh mi carb-chl-Qtz		IR			3			
BHUA-05	695.10				hJ	x2	70		yl gn		IR						
BHUA-05	695.12				V		20		wh mi carb-chl-Qtz		IR			2			
BHUA-05	695.12				hJ	x2	50		yl gn		PR						
BHUA-05	695.23				V				wh mi carb-chl-Qtz		IR			2			
BHUA-05	695.27				hJ		10		bk gn		PR						
BHUA-05	695.27				V		35		wh mi carb-chl-Qtz		IR			2			
BHUA-05	695.31				hJ		30		yl gn		IR						
BHUA-05	695.46				hJ		30		yl gn		PR						
BHUA-05	695.48				hJ		50		yl gn		PR						
BHUA-05	695.53				hJ		10		yl gn		PR						
BHUA-05	695.54				hJ		70		yl gn		PR						
BHUA-05	695.57				hJ		60		yl gn		PR						
BHUA-05	695.60				V		35		wh mi carb-chl-Qtz		IR			2			
BHUA-05	695.63				hJ		20		yl gn		PR						
BHUA-05	695.64				V		40		wh mi carb-chl-Qtz		IR			3			
BHUA-05	695.73				V		80		wh mi carb-chl-Qtz		IR			2			
BHUA-05	695.77				V		50		wh mi carb-chl-Qtz		IR			7			
BHUA-05	695.78				V		90		bk gn		IR						
BHUA-05	695.87				V		30		yl gn		IR						
BHUA-05	696.02				V		45		wh mi carb-chl-Qtz		IR			3			
BHUA-05	696.07				V		40		wh mi carb-chl-Qtz		IR			3			
BHUA-05	696.20				V		75		wh mi carb-chl-Qtz		IR			10			
BHUA-05	696.25				V		85		wh mi carb-chl-Qtz		IR			5			
BHUA-05	696.25				V		70		wh mi carb-chl-Qtz		IR			3			
BHUA-05	696.50				V		30		wh mi carb-chl-Qtz		IR			3			
BHUA-05	696.57				V		80		bk		IR			2			
BHUA-05	696.67				hJ		80		yl gn		PR						
BHUA-05	696.90				hJ		80		bk gn		PR						
BHUA-05	697.05				hJ		20		yl gn		PR						
BHUA-05	697.06				hJ		70		yl gn		PR						
BHUA-05	697.11				hJ		40		bk gn		PR						
BHUA-05	697.21				hJ		40		bk gn		PR						
BHUA-05	697.25				hJ		50		yl bk		PR						
BHUA-05	697.31				V		60		wh mi carb-chl-Qtz		IR			2			
BHUA-05	697.50				hJ		60		wh		PR						
BHUA-05	697.57				hJ		90		yl gn		PR						
BHUA-05	697.64				hJ		50		bk gn		PR						
BHUA-05	697.71				hJ		45		yl gn		IR						
BHUA-05	697.84				hJ		10		yl gn		PR						
BHUA-05	697.85				hJ		85		yl gn		PR						
BHUA-05	697.89				hJ		30		yl gn		PR						
BHUA-05	697.92				J		5				IR	RF					
BHUA-05	698.04				V		30		wh mi carb-chl-Qtz		IR			2			
BHUA-05	698.06				V		30		wh mi carb-chl-Qtz		IR			2			
BHUA-05	698.12				V		40		wh mi carb-chl-Qtz		IR			2			
BHUA-05	698.20				V		30		wh mi carb-chl-Qtz		IR			2			
BHUA-05	698.24				V		30		wh mi carb-chl-Qtz		IR			2			
BHUA-05	698.30				V		20		wh mi carb-chl-Qtz		IR			5			

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	698.32				V		90		wh mi carb-chl-Qtz		IR			8			
BHUA-05	698.39				hJ		40		bk gn		PR						
BHUA-05	698.46				hJ		35		bk gn		PR						
BHUA-05	698.50				hJ		30		yl gn		PR						
BHUA-05	698.53				hJ		30		bk gn		PR						
BHUA-05	698.66				V		20		bk gn		IR			8			
BHUA-05	698.70				hJ		90		yl gn		PR						
BHUA-05	698.71				hJ		10		yl gn		IR						
BHUA-05	698.83				hJ		20		yl gn		PR						
BHUA-05	700.03				hJ		40		pale gy, wh		PR						
BHUA-05	700.85				hJ		65		pale gy, wh		PR						
BHUA-05	700.95				hJ		50		pale gy, wh		PR						
BHUA-05	701.77				hJ		40		pale gy, wh		PR						
BHUA-05	702.14	702.17			hJs	x2	20	30	pale gy, wh		PR						
BHUA-05	702.27				hJ		15		pale gy		PR						
BHUA-05	702.55				hJ		65		pale gy		UN						
BHUA-05	702.60	702.88			hJ		75		pale gy, wh		UN						
BHUA-05	702.75				hJ		55		pale gy, wh		PR						
BHUA-05	702.80				hJ		65		pale gy		UN						
BHUA-05	702.87				hJ		60		pale gy		UN						
BHUA-05	702.88				hJ		10		pale gy		PR						
BHUA-05	702.92				J		5		pale gy	SN	PR	RF					
BHUA-05	703.08				hJ		45		pale gy		UN						
BHUA-05	703.28				hJ		5	10	pale gy		UN						
BHUA-05	703.50	703.54			hJ	x2	5	10	pale gy		PR						
BHUA-05	703.60				hJ		60		pale gy		UN						
BHUA-05	703.82				hJ		30		pale gy		UN						
BHUA-05	703.90				hJ		45		pale gy		UN						
BHUA-05	704.08				hJ		40		pale gy		UN						
BHUA-05	704.48	704.52			hJs	x2	10	20	pale gy		PR						
BHUA-05	704.55				hJ		65	70	pale gy		PR						
BHUA-05	704.70	704.85			hJ		70	85	pale gy		PR						
BHUA-05	704.92				hJ		20		pale gy		PR						
BHUA-05	705.00	705.20			hJ		70		pale gy		PR						
BHUA-05	705.15				DB												
BHUA-05	705.50	705.70			hJs	x3	70		pale gy		PR						
BHUA-05	705.93	705.95			V		20	30	pale gy, yl, wh		UN						
BHUA-05	706.00	706.40			hJs		60	70	pale gy, yl, wh		PR						
BHUA-05	706.75				hJ		65		'		PR						
BHUA-05	706.80	706.95			hJs	x3	5	10	pale gy		PR						
BHUA-05	707.00	707.33			hJ		65	75	pale yl, wh		UN						
BHUA-05	707.27				J	/DB				CN	PR	RF					
BHUA-05	707.94				J		20		pale yl, wh	SN	PR						
BHUA-05	708.13				J	/DB	5		pale yl, wh	SN	PR	RF					
BHUA-05	708.60				hJ		15		pale yl, wh		PR						
BHUA-05	709.00	709.17			hJ		65		pale gy, yl		PR						
BHUA-05	709.40	709.70			hJs	x6	35	45	pale gy		PR						
BHUA-05	710.25	710.75			HB												
BHUA-05	711.00	711.80			hJs	>10	45	60	pale gy, wh, yl		UN						
BHUA-05	711.32	711.34			V		60		pale gy, wh, yl		PR						
BHUA-05	711.38	711.40			V		50		pale gy, wh, yl		PR						
BHUA-05	712.00	712.20			hJ		70		pale gy, wh, yl		PR						
BHUA-05	712.02				hJ		40		pale gy, wh, yl		PR						
BHUA-05	712.26				hJ		40		pale gy, wh, yl		PR						
BHUA-05	712.32				hJ		30		pale gy, wh, yl		PR						
BHUA-05	712.80	713.00			hJs		60	90	pale gy		UN						
BHUA-05	713.66				hJ		45		pale gy		PR						
BHUA-05	713.80	713.94			hJs	x2	65	75	pale gy		PR-UN						
BHUA-05	714.00	714.07			hJ		70		pale gy		PR						
BHUA-05	714.10	714.30			hJs	x4	20	30	pale gy, yl,		UN						
BHUA-05	714.29				hJ				bk gn		PR						
BHUA-05	714.83				hJ		60		yl gn		PR						
BHUA-05	714.85				hJ		50		pale gy, yl,		PR						
BHUA-05	714.87				hJ		45		yl gn		PR						
BHUA-05	715.14				hJ		90		bk gn		PR						
BHUA-05	715.22				hJ		40		yl gn		PR						
BHUA-05	715.37				hJ		20		yl gn		PR						
BHUA-05	716.52				V		60		wh mi Qtz		PR			2			
BHUA-05	716.60				hJ	x3	70		bk gn		PR						
BHUA-05	716.80				hJ		70		yl gn		PR						
BHUA-05	716.96				hJ		20		yl gn		PR						
BHUA-05	717.23				hJ		60		yl gn		PR						
BHUA-05	717.38				hJ		50		yl gn		PR						
BHUA-05	717.42				V		50		wh mi carb-chl-Qtz		IR						
BHUA-05	717.72				hJ		70		bk gn		PR			3			
BHUA-05	717.73				hJ		20		yl gn		PR						
BHUA-05	717.76				hJ		10		yl gn		PR						
BHUA-05	717.77				V		30		wh mi carb-chl-Qtz		PR			3			
BHUA-05	717.84				hJ		50		yl gn		PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	717.86				hJ		80		yl gn		PR						
BHUA-05	717.92				hJ		20		yl gn		PR						
BHUA-05	718.03				hJ	x2	10		yl gn		PR						
BHUA-05	718.05				V		70		wh mi Qtz with pk alteration		IR			3			
BHUA-05	718.13				hJ		10		yl gn		PR						
BHUA-05	718.20				hJ		65		yl gn		PR						
BHUA-05	718.24				V		75		wh mi Qtz with pk alteration		PR						
BHUA-05	718.25				V		20		wh mi carb-chl-Qtz		PR			3			
BHUA-05	718.35				hJ		20		yl gn		PR						
BHUA-05	718.36				V		40		wh mi carb-chl-Qtz		PR			4			
BHUA-05	718.46				hJ		20		yl gn		PR						
BHUA-05	718.49				V		20		wh mi carb-chl-Qtz		PR			3			
BHUA-05	718.67				J		70		clay qtz. contact between granodiorite and lamproph	SN	CU	SM					
BHUA-05	718.78				J		0		clay carb	SN	IR	SM					
BHUA-05	719.02				hJ		10		wh-mi		PR						
BHUA-05	719.03				hJ	x2	80		bk mi		PR						
BHUA-05	719.14	719.27			SS		50		crushed host rock, wh mi	CT	IR	RF		30			apparent shearing
BHUA-05	719.18				J		70		wh mi clay gypsum		CU	RF					
BHUA-05	719.28				J		10				IR	RF					
BHUA-05	719.30				hJ		50		bk-mi		PR						
BHUA-05	719.35				hJ		70		wh mi Qtz		PR						
BHUA-05	719.36				J		10				IR	RF					
BHUA-05	719.44				V		60		dark gy		PR			2			
BHUA-05	719.49				J		60				IR	RF					
BHUA-05	719.53				J		60		dark gy	VN	PR			2			
BHUA-05	719.54				J		10				IR	RF					
BHUA-05	719.56				hJ		80		wh-mi		PR						
BHUA-05	719.61				hJ		30		wh-mi		PR						
BHUA-05	719.69				hJ		90		wh-mi		PR						
BHUA-05	719.76				J		70		clay qtz. contact dolerite and granodiorite	VN	CU	SM					
BHUA-05	719.81				J		5				IR	RF					
BHUA-05	719.94				V		70		wh mi Qtz with pk alteration		PR			3			
BHUA-05	720.31				hJ		20		yl gn		PR						
BHUA-05	720.37				hJ		50		yl gn		PR						
BHUA-05	720.41				hJ		30		yl gn		PR						
BHUA-05	720.48				hJ		10		yl gn		PR						
BHUA-05	720.55				V		20		wh mi carb-chl-Qtz		PR			2			
BHUA-05	720.94				hJ		10		yl gn		PR						
BHUA-05	721.00				V		20		wh mi carb-chl-Qtz		PR			2			
BHUA-05	721.14				hJ	x2	60		yl gn		PR						
BHUA-05	721.15				hJ		60		yl gn		PR						
BHUA-05	721.21				hJ		5		yl gn		PR						
BHUA-05	721.23				hJ		5		bk-mi		PR						
BHUA-05	721.29				hJ		5		yl gn		PR						
BHUA-05	721.44				V				wh mi carb-chl-Qtz		PR			1			
BHUA-05	721.50				hJ		60		yl gn		PR						
BHUA-05	721.53				J		5				IR	RF					
BHUA-05	721.61				V				wh mi carb-chl-Qtz		PR			2			
BHUA-05	721.68				hJ		60		gn gy		PR						
BHUA-05	721.70				hJ		80		gn gy		PR						
BHUA-05	721.91				V		60		wh mi carb-chl-Qtz		PR			3			
BHUA-05	721.98				J		80		wh mi carb-chl-Qtz	SN	IR			2			
BHUA-05	722.32				hJ		60		yl gn		PR						
BHUA-05	722.59				hJ		60		yl gn		PR						
BHUA-05	722.62				hJ		50		bk gn		PR						
BHUA-05	722.64				hJ		6		yl gn		PR						
BHUA-05	722.72				hJ	x2	30		yl gn		PR						
BHUA-05	722.74				hJ		20		bk gn		PR						
BHUA-05	722.80				hJ		70		yl gn		PR						
BHUA-05	722.89				hJ		65		yl gn		PR						
BHUA-05	723.05				V		60		wh mi carb-chl-Qtz		IR			10			
BHUA-05	723.15				hJ		70		yl gn		PR						
BHUA-05	723.23				hJ		60		bk gn		PR						
BHUA-05	723.27				V		60		wh mi carb-chl-Qtz		IR			10			
BHUA-05	723.35				hJ		50		yl gn		PR						
BHUA-05	723.39				hJ		20		yl gn		PR						
BHUA-05	723.43				hJ		30		yl gn		PR						
BHUA-05	723.52				hJ		40		yl gn		PR						
BHUA-05	723.69				hJ		10		yl gn		PR						
BHUA-05	723.74				hJ		60		yl gn		PR						
BHUA-05	723.95				hJ		30		yl gn		PR						
BHUA-05	724.05				hJ		45		yl gn		PR						
BHUA-05	724.10				hJ		60		yl gn		PR						
BHUA-05	724.13				hJ		50		yl gn		PR						
BHUA-05	724.14				hJ		45		yl gn		PR						
BHUA-05	724.29				hJ		30		bk gn		PR						
BHUA-05	724.38				V		45		wh mi carb-chl-Qtz		PR			2			
BHUA-05	724.45				hJ		10		yl gn		PR						
BHUA-05	724.46				hJ		40		yl gn		PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	724.48				hJ		20		yl gn		PR						
BHUA-05	724.53				hJ	x4	20		yl gn		PR						
BHUA-05	724.59				hJ		20		yl gn		PR						
BHUA-05	724.60				hJ		10		bk gn		PR						
BHUA-05	724.63				hJ		10		bk gn		PR						
BHUA-05	724.69				hJ		40		yl gn		PR						
BHUA-05	724.86				hJ		25		yl gn		PR						
BHUA-05	724.95				hJ		40		bk gn		PR			3			
BHUA-05	726.05				hJ		60		yl gn		PR						
BHUA-05	726.08				hJ		50		yl gn		PR						
BHUA-05	726.16				hJ		70		yl gn		PR						
BHUA-05	726.33				hJ		60		yl gn		PR						
BHUA-05	726.35				hJ				bk gn		PR						
BHUA-05	726.37				hJ		50		yl gn		PR						
BHUA-05	726.46				hJ				bk gn		PR						
BHUA-05	726.50				hJ		50		yl gn		PR						
BHUA-05	726.55				hJ		50		bk gn		PR						
BHUA-05	726.63				hJ		30		yl gn		PR						
BHUA-05	726.84				V		40		wh mi carb-chl-Qtz		IR			20			
BHUA-05	726.93				V		40		wh mi carb-chl-Qtz		PR			2			
BHUA-05	726.98				hJ	x5	45		yl gn		PR						
BHUA-05	727.54				hJ		45		bk gn		PR						
BHUA-05	727.60				hJ		60		yl gn		PR						
BHUA-05	727.73				hJ		60		bk gn		PR						
BHUA-05	727.75				hJ		70		bk gn		PR						
BHUA-05	728.07				hJ		40		yl gn		PR						
BHUA-05	728.68				hJ		80		bk gn		PR						
BHUA-05	728.75				hJ				bk gn		PR						
BHUA-05	728.88				V		70		wh mi carb-chl-Qtz		PR			5			
BHUA-05	728.92				hJ	x2	50		yl gn		PR						
BHUA-05	729.02				V		80		wh mi carb-chl-Qtz		PR			2			
BHUA-05	731.20				V		80		bk gn		PR			2			
BHUA-05	731.50				J		35				PR	SM					
BHUA-05	732.13				V		70		bk gn		PR			3			
BHUA-05	732.36				V		70		wh mi Qtz		PR			2			
BHUA-05	732.46				V		10		wh mi carb		IR			3			
BHUA-05	732.62				J		40				PR	SM					
BHUA-05	732.75				J		40				PR	SM					
BHUA-05	740.94				J		30				IR	RF					
BHUA-05	741.56				V		40		wh mi carb-chl-Qtz		PR			15			
BHUA-05	741.73				V		50		bk gn		PR			5			
BHUA-05	742.06				V		60		wh mi carb-chl-Qtz		PR			3			
BHUA-05	742.77				V		30		wh mi carb-chl-Qtz		IR			5			
BHUA-05	742.85				AZ		40		wh mi carb-chl-Qtz			SM					
BHUA-05	743.52				V		30		wh mi carb-chl-Qtz		PR			3			
BHUA-05	743.77				V		20		wh mi carb-chl-Qtz		IR			10			
BHUA-05	743.78				V		90		wh mi carb-chl-Qtz		IR			4			
BHUA-05	743.96				V		30		wh mi carb-chl-Qtz		IR			5			
BHUA-05	744.20	744.65			hJs	x3	60	70	pale gy wh		PR						
BHUA-05	744.83				hJ		10	20	pale gy wh		UN						
BHUA-05	744.86				hJ		50		pale gy wh		UN						
BHUA-05	744.97				hJ		30		pale gy wh		PR						
BHUA-05	745.00	745.03			hJs		50		pale gy wh		PR						
BHUA-05	745.12				hJ		85	90	pale gy wh		UN						
BHUA-05	745.14	745.35			hJ	x8	20	30	pale gy wh		UN						
BHUA-05	745.20	745.33			hJ		75		pale gy wh		UN						
BHUA-05	745.36	745.65			hJ		75	80	pale gy, wh		UN						
BHUA-05	745.42				J		20			SN	PR	RF					
BHUA-05	745.45	745.86			hJs		20	30	pale gy, wh		PR						
BHUA-05	745.68	746.00			hJ		75	85	pale gy, wh		UN						
BHUA-05	746.02				hJ		40		pale gy, wh		PR						
BHUA-05	746.06	746.10			hJ		30		pale gy, wh		PR						
BHUA-05	746.18				hJ		20		pale gy, wh		PR						
BHUA-05	746.42	746.45			hJs	x2	30	35	pale gy		PR						
BHUA-05	746.54	746.55			hJs	x2	30		pale gy		PR						
BHUA-05	746.78				hJ		50		pale gy		PR						
BHUA-05	746.81				hJ		20		pale gy		PR						
BHUA-05	746.85				hJ		40		pale gy, wh		PR						
BHUA-05	746.92				hJ		50		pale gy, wh		PR						
BHUA-05	747.24				J		10			SN	PR						
BHUA-05	747.27				hJ		20		pale gy, wh		PR						
BHUA-05	747.52				hJ		40		pale gy, wh		PR						
BHUA-05	747.62				hJ		60		pale gy, wh		PR						
BHUA-05	748.03				hJ		60		pale gy, wh		PR						
BHUA-05	748.25				hJ		60		pale gy, wh		UN						
BHUA-05	748.45				hJ		60		pale gy, wh		PR						
BHUA-05	749.08				hJ		60		pale gy		PR						
BHUA-05	749.22				hJ		10		pale gy, wh		PR						
BHUA-05	749.30				hJ		50		pale gy, wh		PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	749.40	749.60			hJs	x2	70	90	pale gy, br, pk		UN						
BHUA-05	749.44				hJ		50		pale gy, wh		PR						
BHUA-05	749.63				hJ		60		pale gy, wh		PR						
BHUA-05	749.65	749.82			hJs	x4	20	30	pale gy, wh		UN						
BHUA-05	749.85	750.00			hJs	x5	65	75	dark gy to pale gy		PR						
BHUA-05	750.00	750.20			hJs		20	30	pale gy, wh		UN						
BHUA-05	750.08	750.14			hJ		80	90	pale gy, wh		UN						
BHUA-05	750.27				hJ		20		pale gy, wh		PR						
BHUA-05	750.30	750.42			hJ		70	80	pale gy, wh		UN						
BHUA-05	750.45	750.70			hJs	x7	20	30	pale gy, wh		UN						
BHUA-05	750.75				hJ		75		pale gy, wh		PR						
BHUA-05	750.86	750.97			hJs	x2	20	30	pale gy, wh		PR						
BHUA-05	751.08				hJ		70		pale gy, wh		UN						
BHUA-05	751.15				hJ		50		pale gy, wh		UN						
BHUA-05	751.20				hJ		40		pale gy, wh		UN						
BHUA-05	751.25	751.52			hJs	x15	20	30	pale gy, wh		PR-UN						
BHUA-05	751.92				hJ		15		pale gy, wh		PR						
BHUA-05	751.96				hJ		30		pale gy, wh		UN						
BHUA-05	752.05				hJ		40		pale gy, wh		UN						
BHUA-05	752.20				hJ		30		pale gy, wh		UN						
BHUA-05	752.25				hJ		80		pale yl, br		UN						
BHUA-05	752.50				hJ		60		pale gy, yl		UN						
BHUA-05	752.70				J		10		pale gy	SN	PR	RF					
BHUA-05	752.71	753.00			hJ		70	80	pale gy, yl		PR						
BHUA-05	752.98				hJ		20		pale gy, yl		UN						
BHUA-05	753.20	753.25			Js	x2	0	5		CN	PR						
BHUA-05	753.23				hJ		65		pale gy		PR						
BHUA-05	753.27	753.50			hJs	x5	30	40	pale gy		PR-UN						
BHUA-05	753.60	753.62			hJs	x2	40		pale gy		PR						
BHUA-05	753.80	753.82			hJs	x2	20	30	pale gy		PR						
BHUA-05	753.92				hJ		30		pale gy		PR						
BHUA-05	754.14				hJ		50		pale gy		PR						
BHUA-05	754.27				hJ		30		pale gy		PR						
BHUA-05	754.27	754.60			hJs	x3	75	80	pale gy, wh		UN						
BHUA-05	754.76				hJ		20		pale gy		PR						
BHUA-05	755.17	755.27			hJs	x30	30		pale gy		UN						
BHUA-05	755.21				V		30		pale yl, wh	VN	UN						
BHUA-05	755.70	756.00			hJs	x10	30	45	pale yl, wh		UN						
BHUA-05	756.26				J		5			CN	PR	RF					
BHUA-05	756.60				J		55		pale gy	SN	UN						
BHUA-05	756.77				hJ		45		pale gy		PR						
BHUA-05	756.92	756.95			hJs	x2	70		pale gy		PR						
BHUA-05	757.05	757.07			Js	x2	70		pale gy, wh	SN	UN-pr	RF					
BHUA-05	757.15	757.18			Js	x2	5	10	pale gy	SN	UN						
BHUA-05	757.20	757.25			hJs	x2	70		pale gy, yl	SN	UN						
BHUA-05	757.36	757.46			hJ	x2	60		pale gy, yl		PR						
BHUA-05	757.48				J		20			CN	PR	RF					
BHUA-05	757.55	757.85			hJs	x10	70	80	pale gy, wh		UN-PR						
BHUA-05	757.65				J		10			SN	PR						
BHUA-05	757.77				J		5			SN	PR						
BHUA-05	757.90				J		10		pale gy	SN	PR						
BHUA-05	757.94				J		15		pale gy	SN	PR						
BHUA-05	758.00	758.22			Js	x7	10	20	pale gy, gn	VN	UN-pR	RF					
BHUA-05	758.42				J		15		gy	SN	PR	RF					
BHUA-05	758.45				hJ		50		pale gy, wh		PR						
BHUA-05	758.56				J		10		pale gy	SN	PR						
BHUA-05	758.58				hJ		30		pale gy, yl		PR						
BHUA-05	758.74				hJ		20		pale gy, yl		PR						
BHUA-05	758.86				J		10		pale gy	SN	UN						
BHUA-05	759.00	759.15			hJ		65	75	pale br		UN						
BHUA-05	759.14				J		10			SN	UN	RF					
BHUA-05	759.26				J		10			SN	UN	RF					
BHUA-05	759.28				J		30			SN	PR	RF					
BHUA-05	759.35	780.00			hJs	x10	20	30	pale gy, yl		UN						
BHUA-05	759.58				J		15		pale gy	SN	PR						
BHUA-05	760.00				hJ		60		pale gy, yl		PR						
BHUA-05	760.10				hJ		30		wh, pale yl		UN						
BHUA-05	760.36				hJ		60		wh, pale yl		UN						
BHUA-05	760.42				J		20		pale gy	SN	UN						
BHUA-05	760.45				hJ		60		pale gy		PR						
BHUA-05	760.56				hJ		60		pale gy		PR						
BHUA-05	760.65				J		10		pale gy	SN	UN						
BHUA-05	760.84				hJ		40		pale gy, br		UN						
BHUA-05	761.00	761.10			hJs	x2	15		pale gy		PR						
BHUA-05	761.16				J		15			CN	UN						
BHUA-05	761.20				hJ		20		pale gy, yl, wh		PR						
BHUA-05	761.38				hJ		15		pale gy		UN						
BHUA-05	761.47				J		50		pale gy, gn	VN	UN						
BHUA-05	761.86	761.92			hJs	x3	45		pale gy, wh		PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	761.92				J		20			CN	PR						
BHUA-05	762.07				J		35		pale gy	SN	PR	RF					
BHUA-05	762.26				J		10		pale gy	SN	PR	RF					
BHUA-05	763.08	763.12			hJs	x2	10	20	pale gy		PR						
BHUA-05	763.30				hJ		20		pale gy		PR						
BHUA-05	763.50				hJ		50		pale gy		PR						
BHUA-05	763.66				hJ		30		pale gy, yl, wh		PR						
BHUA-05	764.00	764.40			hJ		60		pale gy, yl, wh		PR						
BHUA-05	764.32				hJ		30		pale gy, yl, wh		PR						
BHUA-05	764.40	764.65			hJ		65		pale gy, yl, wh		PR						
BHUA-05	764.60	764.70			hJ		60		pale gy, yl		PR						
BHUA-05	764.61				hJ		10		pale gy		PR						
BHUA-05	764.66				J		5		pale gy	SN	PR	RF					
BHUA-05	765.00	765.20			hJ		80	90	pale gy, yl		UN						
BHUA-05	765.21				DB												
BHUA-05	765.30				hJ		60		pale gy, yl		UN						
BHUA-05	765.45				hJ		30		pale gy, yl		UN						
BHUA-05	765.90				hJ		20		pale gy, yl		UN						
BHUA-05	766.00	766.15			hJs	x2	60	65	pale gy, yl		PR						intersecting joints
BHUA-05	766.27	766.65			hJs	x10	60	70	pale gy, yl		PR-UN						
BHUA-05	766.90				J		5		pale gy, yl	SN	UN						
BHUA-05	767.00	769.00			hJs	x2	20	40	pale gy, yl		PR-UN						
BHUA-05	768.18				J		10		pale gy, yl	SN	PR						
BHUA-05	769.05				hJ		70		pale gy, yl		UN						
BHUA-05	769.07	769.15			hJs	x3	10	20	pale gy, yl		PR-UN						
BHUA-05	769.20				hJ		70		pale gy, yl		UN						
BHUA-05	769.40				hJ		70	80	pale gy, yl		UN						
BHUA-05	769.45	769.52			hJs	x3	20	30	pale gy, yl		UN						
BHUA-05	769.55				J		5			SN	PR						
BHUA-05	769.63				hJ		40		dark br		UN						
BHUA-05	769.71	769.72			J	x2	30		dark br	SN	PR	RF					
BHUA-05	769.75				hJ		50		pale gy, yl		PR						
BHUA-05	769.80	769.90			hJs	x5	10	15	dark gy		PR-UN						
BHUA-05	770.75				J		10		dark gy	SN	PR						
BHUA-05	770.90				hJ		20		gy		PR						
BHUA-05	771.08				hJ		30		pale gy		PR						
BHUA-05	771.18				hJ		80		pale gy		PR						
BHUA-05	771.20				J		5		pale gy	SN	UN						
BHUA-05	771.28				J		10		pale gy	SN	UN						
BHUA-05	771.35	771.55			hJs	x2	70	80	pale gy		UN						
BHUA-05	771.60	771.70			hJs	x3	10	20	pale gy		UN						
BHUA-05	771.78				hJ		65		pale gy		UN						
BHUA-05	772.05				hJ		70		pale yl		UN						
BHUA-05	772.08				J		10		pale yl	SN	UN						
BHUA-05	772.15				hJ		15		pale yl		UN						
BHUA-05	772.20				hJ		40		pale yl		UN						
BHUA-05	772.26				hJ		50		pale yl		UN						
BHUA-05	772.50				hJ		60		pale yl		UN						
BHUA-05	772.70				hJ		50		pale yl		UN						
BHUA-05	772.90				J		45	50	pale br	SN	UN						
BHUA-05	773.65				J		10			CN	PR	RF					
BHUA-05	773.75	774.00			hJs	x3	10		pale gy, wh		PR-UN						
BHUA-05	774.35				hJ		70		pale gy, wh		PR						
BHUA-05	774.50	774.60			hJs	x3	30	40	pale gy, wh		UN						
BHUA-05	776.05				CO					SN	PR						
BHUA-05	777.08				hJ		60		pale gy, wh		PR						
BHUA-05	777.64				hJ		30		pale gy, wh		PR						
BHUA-05	777.73				hJ		50		pale gy, wh		PR						
BHUA-05	777.76				hJ		30		pale gy, wh		PR						
BHUA-05	777.77	777.93			hJ		60	90	pale gy, wh		UN						
BHUA-05	778.05				hJ		45		pale gy, wh		UN						
BHUA-05	778.12				hJ		80		pale gy, wh		UN						
BHUA-05	778.25				hJ		35		pale gy, wh		UN						
BHUA-05	778.55				hJ		80		pale gy, wh		PR						
BHUA-05	779.32				hJ		55		pale gy, wh		PR						
BHUA-05	779.90				hJ		30		pale gy, wh		PR						
BHUA-05	780.05	780.13			hJs	x3	70	80	pale gy, wh		PR						
BHUA-05	780.06				V		70		wh mi carb-chl-Qtz		IR			3			
BHUA-05	780.09				hJ		75		yl gn		PR						
BHUA-05	780.24				V		60		wh mi carb-chl-Qtz		PR			4			
BHUA-05	780.30				hJ		70		pale gy		PR						
BHUA-05	780.36				V		60		wh mi carb-chl-Qtz		PR			4			
BHUA-05	780.40				hJ		60		pale gy		PR						
BHUA-05	780.41				hJ		50		pale gy		PR						
BHUA-05	780.42				hJ		50		gn		PR						
BHUA-05	780.50	780.60			hJs	x4	30	40	pale gy		PR						
BHUA-05	780.54				hJ		20		wh mi Qtz		PR						
BHUA-05	780.55				hJ		40		wh mi Qtz		PR						
BHUA-05	780.62				hJ		30		bk gn		PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	780.78				hJ		35		pale gy		PR						
BHUA-05	780.80				hJ		35		yl gn		PR						
BHUA-05	781.50				hJ		80		yl gn		PR						
BHUA-05	781.84				hJ		80		yl gn		PR						
BHUA-05	782.20				hJ		70		wh mi Qtz		PR						
BHUA-05	782.57				V		40		wh mi carb-chl-Qtz		PR			5			
BHUA-05	783.00				V		80		wh mi carb-chl-Qtz		PR			2			
BHUA-05	783.76				J		20				IR	RF					
BHUA-05	784.00				hJ	x2			yl gn		PR						
BHUA-05	784.08				hJ		20		yl gn		PR						
BHUA-05	784.15				hJ		70		yl gn		PR						
BHUA-05	784.18				hJ		10		yl gn		PR						
BHUA-05	784.40				hJ		90		yl gn		PR						
BHUA-05	784.60				J		90		wh mi Qtz clay		UN	RF					
BHUA-05	784.65				J						IR	RF					
BHUA-05	784.67				CO		45		granodiorite/dolerite		PR						
BHUA-05	784.68				hJ	x2	90		yl gn		PR						
BHUA-05	784.69				hJ		30		yl gn		PR						
BHUA-05	784.75				hJ		60		wh mi Qtz		CU						
BHUA-05	784.84				J		35				IR	RF					
BHUA-05	784.85				J		60		wh mi Qtz		PR	SM					
BHUA-05	785.00				hJ		60		wh mi Qtz		PR						
BHUA-05	785.05				hJ		90		wh mi Qtz		PR						
BHUA-05	785.06				hJ	x2	90		wh mi Qtz		PR						
BHUA-05	785.17				hJ		85		wh mi Qtz		PR						
BHUA-05	785.20				hJ		70		wh mi Qtz		PR						
BHUA-05	785.29				hJ		10		wh mi Qtz		PR						
BHUA-05	785.33				hJ		85		wh mi Qtz		PR						
BHUA-05	785.35				J						IR	SM					
BHUA-05	785.36				J		20				IR	SM					
BHUA-05	785.46				J		85		wh mi Qtz		PR	SM					
BHUA-05	785.56				V		70		wh mi Qtz		PR			3			
BHUA-05	785.57				J						IR	RF					
BHUA-05	785.58				hJ		70		wh mi Qtz		PR						
BHUA-05	785.66				V				wh mi Qtz		CU						
BHUA-05	785.77				J	x3	5				IR	RF					
BHUA-05	785.84				hJ		80		wh mi Qtz		PR						
BHUA-05	786.37				hJ		40		wh mi Qtz		PR						
BHUA-05	786.56				J		60				PR	SM					
BHUA-05	786.67				hJ		45		wh mi Qtz		PR						
BHUA-05	786.96				hJ		30		wh mi Qtz		PR						
BHUA-05	787.14				hJ		70		wh mi Qtz		PR						
BHUA-05	787.15				CO		70		dolerite/granodiorite		PR						
BHUA-05	787.42				hJ		60		yl gn		PR						
BHUA-05	787.48				J						IR	RF					
BHUA-05	787.51				hJ		70		bk gn		PR						
BHUA-05	787.72				CO		70		granodiorite/dolerite		PR						
BHUA-05	787.85				hJ		90		wh mi Qtz		PR						
BHUA-05	787.94				hJ		10		wh mi Qtz		PR						
BHUA-05	787.98				hJ		60		wh mi Qtz		PR						
BHUA-05	788.00				J		60				PR	SM					
BHUA-05	788.13				hJ		10		wh mi Qtz		PR						
BHUA-05	788.15				hJ		90		wh mi carb-chl-Qtz		PR			4			
BHUA-05	788.16				J		60				PR	SM					
BHUA-05	788.28				hJ		45		wh mi Qtz		PR						
BHUA-05	788.40				hJ		45		wh mi Qtz		PR						
BHUA-05	788.43				hJ		90		wh mi Qtz		PR						
BHUA-05	788.48				hJ		45		wh mi Qtz		PR						
BHUA-05	788.56				hJ		60		wh mi Qtz		PR						
BHUA-05	788.59				CO		70		dolerite/granodiorite qtz vein 3mm	SN	PR			3			
BHUA-05	788.78				hJ		45		yl gn		PR						
BHUA-05	788.83				hJ		70		yl gn		PR						
BHUA-05	788.86				J		20				IR	RF					
BHUA-05	789.21				hJ	x3	10		yl gn		PR						
BHUA-05	789.36				hJ	x3	5		yl gn		PR						
BHUA-05	789.50				hJ	x2	90		yl gn		PR						
BHUA-05	789.55				hJ		50		yl gn		PR						
BHUA-05	789.63				J						IR	RF					
BHUA-05	789.66				V		60		carb-chl bk with pink alteration 4mm		IR			4			
BHUA-05	789.68				hJ		60		bk gn		PR						
BHUA-05	790.00				hJ		40		bk gn		PR						
BHUA-05	790.19				hJ				yl gn		PR						
BHUA-05	790.27				hJ		90		gn		PR						
BHUA-05	790.48				hJ		20		bk gn		PR						
BHUA-05	790.55				hJ		25		bk gn		PR						
BHUA-05	790.64				hJ		10		yl gn		PR						
BHUA-05	790.96				hJ				yl gn		PR						
BHUA-05	791.02				J		20				PR	RF					
BHUA-05	791.80				hJ		5		yl gn		PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	791.91				hJ		5		yl gn		PR						
BHUA-05	791.95				V		60		wh mi Qtz with pk alteration		PR			3			
BHUA-05	792.00				hJ		60		gn		PR						
BHUA-05	792.07				J		0				CU	RF					
BHUA-05	792.29				hJ		20		yl gn		PR						
BHUA-05	792.51				hJ		20		yl gn		PR						
BHUA-05	792.54				hJ		5		yl gn		PR						
BHUA-05	792.87				hJ		45		yl gn		PR						
BHUA-05	792.88				hJ		20		yl gn		PR						
BHUA-05	793.12				hJ				yl gn		PR						
BHUA-05	793.24				hJ		10		yl gn		PR						
BHUA-05	793.44				hJ		5		yl gn		PR						
BHUA-05	793.62				hJ		30		yl gn		PR						
BHUA-05	793.70				hJ		10		yl gn		PR						
BHUA-05	793.72				hJ		70		yl gn		PR						
BHUA-05	793.81				J						CU	RF					
BHUA-05	793.87				hJ		5		yl gn		PR						
BHUA-05	793.91				hJ				yl gn		PR						
BHUA-05	794.07				hJ	x2			yl gn		PR						
BHUA-05	794.08				hJ		5		yl gn		PR						
BHUA-05	794.20				hJ		5		yl gn		PR						
BHUA-05	794.45				hJ				yl gn		PR						
BHUA-05	794.46				hJ		10		yl gn		PR						
BHUA-05	794.71				J		10				PR	SM					
BHUA-05	794.81				hJ		90		yl gn		PR						
BHUA-05	794.87				V		10		wh mi carb-chl-Qtz		PR			3			
BHUA-05	794.89				hJ		20		wh mi Qtz		PR						
BHUA-05	794.91				V		10		wh mi carb-chl-Qtz		PR			2			
BHUA-05	794.94				V		10		wh mi carb-chl-Qtz		PR			2			
BHUA-05	795.00				J		5				PR	SM					
BHUA-05	795.05				hJ		5		yl gn		PR						
BHUA-05	795.11				J		20				PR	SM					
BHUA-05	795.24				hJ	x2	5		bk gn		PR						
BHUA-05	795.57				hJ		10		bk gn		PR						
BHUA-05	795.75				J		5				IR	RF					
BHUA-05	795.79				hJ		5		bk gn		PR						
BHUA-05	795.96				hJ		20		bk gn		PR						
BHUA-05	795.97				hJ				bk gn		PR						
BHUA-05	796.20				V		60		wh mi carb-chl-Qtz		PR			2			
BHUA-05	796.30				hJ	x3	90		yl gn		PR						
BHUA-05	796.44				hJ		10		bk gn		PR						
BHUA-05	796.62				hJ		40		yl gn		PR						
BHUA-05	796.64				J		20				IR	RF					
BHUA-05	796.67				hJ		60		yl gn		PR						
BHUA-05	796.77				hJ		50		yl gn		PR						
BHUA-05	796.89				J		10				IR	RF					
BHUA-05	796.90				J		90				IR	RF					
BHUA-05	796.94				hJ				gn		PR						
BHUA-05	797.05				hJ		90		bk gn		PR						
BHUA-05	797.10				hJ		5		yl gn		PR						
BHUA-05	797.13				J						IR	RF					
BHUA-05	797.21				hJ		5		bk gn		PR						
BHUA-05	797.24				J		15				IR	RF					
BHUA-05	797.28				V		5		bk		PR			3			
BHUA-05	797.31				V		10		bk		PR			3			
BHUA-05	797.43				V		20		wh mi carb-chl-Qtz		PR			5			
BHUA-05	797.61				J		20				IR	RF					
BHUA-05	797.67				hJ		70		yl gn		PR						
BHUA-05	797.90				hJ		5		yl gn		PR						
BHUA-05	797.97				hJ		20		yl gn		PR						
BHUA-05	798.36				hJ				gn		PR						
BHUA-05	798.41				hJ				yl gn		PR						
BHUA-05	798.67				hJ	x3	20		yl gn		PR						
BHUA-05	798.90				V		10		wh mi carb-chl-Qtz		PR			3			
BHUA-05	799.18				hJ				yl gn		PR						
BHUA-05	799.31				hJ		10		yl gn		PR						
BHUA-05	799.46				hJ		30		gn		PR						
BHUA-05	799.58				J						IR	RF					
BHUA-05	799.68				V		85		wh mi carb-chl-Qtz		PR			2			
BHUA-05	799.90				hJ		85		yl gn		PR						
BHUA-05	800.07				hJ		70		yl gn		PR						
BHUA-05	800.23				hJ		80		yl gn		PR						
BHUA-05	800.61				V		10		bk gn		IR			3			
BHUA-05	800.68				hJ		90		gn		PR						
BHUA-05	801.06				hJ		20		bk gn		PR						
BHUA-05	801.16				hJ		40		bk gn		PR						
BHUA-05	801.17				hJ		50		bk gn		PR						
BHUA-05	801.26				hJ		40		bk gn		PR						
BHUA-05	801.67				J						IR	RF					

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	802.02				hJ		45		yl gn		PR						
BHUA-05	802.15				hJ		10		yl gn		PR						
BHUA-05	802.29				hJ		10		yl gn		PR						
BHUA-05	802.38				J		10				PR	RF					
BHUA-05	802.44				hJ		10		bk gn		PR						
BHUA-05	802.48				hJ		10		bk gn		PR						
BHUA-05	802.62				hJ		10		bk gn		PR						
BHUA-05	803.02				hJ		10		bk gn		PR						
BHUA-05	803.15				hJ		90		bk gn		PR						
BHUA-05	803.17				hJ	x10	10		bk gn		PR						
BHUA-05	803.44				hJ	x4	10		bk yl		PR						
BHUA-05	803.59				hJ	x2	10		bk yl		PR						
BHUA-05	803.65				hJ		90		bk		PR						
BHUA-05	804.05				hJ		70		wh mi Qtz		PR						
BHUA-05	804.10				hJ		70		bk gn		PR						
BHUA-05	804.11				hJ	x2	10		bk		PR						
BHUA-05	804.14				V		90		wh mi carb-chl-Qtz		IR			8			
BHUA-05	804.72				hJ		65				PR						
BHUA-05	804.76				hJ		65				PR						
BHUA-05	804.82				hJ		10				PR						
BHUA-05	804.83				hJ		10				PR						
BHUA-05	804.99				hJ		10				PR						
BHUA-05	805.01				hJ		30				PR						
BHUA-05	805.05				hJ		60				PR						
BHUA-05	805.06				hJ		20				PR						
BHUA-05	805.07				hJ		20				PR						
BHUA-05	805.12				hJ		30				PR						
BHUA-05	805.21				J		30			VN	PR	SM					
BHUA-05	805.27				hJ		5				UN						
BHUA-05	805.36				J		20			SN	UN	RF					
BHUA-05	805.38				hJ		60				PR						
BHUA-05	805.39				hJ		10				PR						
BHUA-05	805.40				hJ		10				PR						
BHUA-05	805.54				V		15		pale gn halo		UN			2			
BHUA-05	805.64				V		70		pale gn halo		UN			3			
BHUA-05	805.73				hJ		70				PR			1			
BHUA-05	805.75				V		20		pale gn halo		UN			3			
BHUA-05	805.76				hJ		90		pale gn halo		PR			1			
BHUA-05	805.78				hJ		5		pale gn halo		ST			1			
BHUA-05	805.90				hJ		30		pale gn halo		UN		<	1			
BHUA-05	806.05	806.20			V	x2	35		pale gn halo		UN			1			
BHUA-05	806.19				V		10		pale gn halo		PR			4			
BHUA-05	806.55				hJ		15		pale gn halo		UN			1			
BHUA-05	806.80				hJ		10		pale gn halo		UN			1			
BHUA-05	806.83				hJ		70		pale gn halo		PR			1			
BHUA-05	806.93				hJ		75		pale gn halo		PR			1			
BHUA-05	806.97				hJ		10		pale gn halo		PR			1			
BHUA-05	807.03				hJ		15		wh mi Qtz		UN			3			
BHUA-05	807.11				hJ		55		wh mi Qtz		UN			1			
BHUA-05	807.50				V		50		pale gn mi		UN			1			
BHUA-05	807.55				V		50		wh mi Qtz		PR			2			
BHUA-05	807.87				V		70		gn wh mi		UN			1			
BHUA-05	807.93				V		90		pale gn mi		UN		<	1			
BHUA-05	808.07				hJ		50		wh mi Qtz		PR			1			
BHUA-05	808.16				hJ		30		pale gn halo		PR			3			
BHUA-05	808.25				hJ		40		pale gn halo		ST			1			
BHUA-05	808.53				hJ		70		pale gn halo		PR		<	1			
BHUA-05	808.60				hJ		60		pale gn halo		PR			1			
BHUA-05	808.75				hJ		75		pale gn halo		UN		<	1			
BHUA-05	808.93				hJ		45		wh mi Qtz		PR			1			
BHUA-05	809.09				hJ		70		wh mi Qtz		PR			1			
BHUA-05	809.21	809.35			hJs	x3	80	90	pale gn mi		UN		<	1			
BHUA-05	809.50				V		70		pale gn to pale pk		UN			40			
BHUA-05	809.72				hJ		70		pale gn mi		UN						
BHUA-05	809.76				hJ		80		pale gn mi		UN			1			
BHUA-05	809.88				hJ		65		pale gn mi		UN			2			
BHUA-05	809.93	810.00			hJs	x2	80		gn mi		UN			2			
BHUA-05	809.97				V		15		wh mi Qtz		PR			1			
BHUA-05	809.98				V		80		wh mi Qtz		UN			3			
BHUA-05	810.04				hJ		80		pale gn mi		UN			1			
BHUA-05	810.05				J		10			SN	UN			1			
BHUA-05	810.12				hJ		80		pale gn mi		PR			1			
BHUA-05	810.15				hJ		20		wh mi Qtz		UN			1			
BHUA-05	810.17	810.30			hJs	x3	70	75	pale gn mi		UN			1			
BHUA-05	810.25				hJ		75		pale gn mi		UN		<	10			
BHUA-05	810.38	810.50			V	x2	75	80	wh mi Qtz		UN			2			
BHUA-05	810.50				hJ		85		wh to pale gn mi		UN			1			
BHUA-05	810.60				hJ		80		pale gn		UN			1			
BHUA-05	810.63				hJ		40		pale gn		UN			1			

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	810.77				hJ		80		wh mi Qtz		PR			2			
BHUA-05	810.90				hJ		65		pale gn mi		PR			1			
BHUA-05	810.95	811.00			hJs	x2	80	85	pale gn mi		PR			1			
BHUA-05	811.03				hJ		70		pale gn mi		UN			1			
BHUA-05	811.20				hJ		75		pale gn mi		UN			1			
BHUA-05	811.23				hJ		10		pale gn mi		UN			1			
BHUA-05	811.28				hJ		40		pale gn mi		UN			1			
BHUA-05	811.32	811.46			hJs	x4	70		anastomosed zone, pale gn infill		UN			1			
BHUA-05	811.42	811.54			hJs	x3	65	70	pale gn mi		UN			1			
BHUA-05	811.77	811.90			hJs	x8	50	70	pale gn mi		UN			5			
BHUA-05	812.15	812.30			hJs	x4	60	70	pale gn mi		UN			1			
BHUA-05	812.39	812.50			hJs	x4	70	90	pale gn mi		UN			1			
BHUA-05	812.48				hJ		55		wh mi Qtz		UN			1			
BHUA-05	813.04				hJ		20		dark br biotite infill		UN			1			
BHUA-05	813.08				hJ		85		pale gn mi		UN			1			
BHUA-05	813.20				hJ		10		pale gn mi		UN			1			
BHUA-05	813.23				hJ		70		pale gn mi		UN			15			
BHUA-05	813.54				hJ		70		pale gn mi		PR			1			
BHUA-05	813.58				hJ		15		wh mi Qtz		PR		<	1			
BHUA-05	813.68				hJ		0		pale gn mi		UN		<	1			
BHUA-05	813.81				hJ		75		pale gn mi		PR			4			
BHUA-05	813.90				hJ		80		pale gn mi		UN			2			
BHUA-05	813.91				hJ		5		pale gn mi		PR		<	1			
BHUA-05	813.97				hJ		30		pale gn mi		UN			1			
BHUA-05	814.03	814.13			hJs	x2	40	60	pale gn mi		UN		<	2			
BHUA-05	814.08	814.28			hJs	x2	10		pale gn mi Qtz		UN-CU			1			
BHUA-05	814.43	814.60			hJs	x2	0	15	pale gn mi		UN			5			
BHUA-05	814.55				hJ		55		pale gn and wh mi		UN			1			
BHUA-05	814.62				hJ		65		pale gn and wh mi		UN			1			
BHUA-05	814.63	814.75			hJs	x4	50		pale gn and wh mi		ST			1			
BHUA-05	814.71	814.84			hJs	x4	15	20	pale gn and wh mi		UN			1			
BHUA-05	814.90	815.10			hJs	x10			anastomosed zone, pale gn infill		UN		<	1			
BHUA-05	815.11				hJ		15		pale gn mi		UN		<	1			
BHUA-05	815.21	815.35			hJs	x3	0	15	pale gn mi		UN		<	1			
BHUA-05	815.30	815.50			hJs	x6	10		pale gn mi		UN			1			
BHUA-05	815.48	815.60			hJs	x5	60		pale gn, minor alteration halo		UN		<	10			
BHUA-05	815.59	815.70			hJs	x4	10		anastomosed zone, pale gn infill		UN		<	10			
BHUA-05	815.65				hJ		50		pale gn mi		UN			5			
BHUA-05	815.72	815.90			hJs	x10	50	90	anastomosed zone, generally high angle		UN			1			
BHUA-05	815.95				V		70		tapers out with depth		PR-UN		<	10			
BHUA-05	816.21				hJ		60		pale gn mi		PR			10			
BHUA-05	816.56				hJ		5		pale gn mi		UN		<	1			
BHUA-05	816.60				hJ		20		pale gn mi		UN		<	1			
BHUA-05	816.62				DB												
BHUA-05	816.78				hJ		10		pale gn mi		UN		<	1			
BHUA-05	817.12				hJ		60		pale gn mi		UN			10			
BHUA-05	817.18	817.30			hJs	x6	0	30	anastomosed zone, generally low angle defects		UN		<	1			
BHUA-05	817.54	817.65			hJs	x7	0	30	anastomosed zone, generally low angle defects		UN		<	1			
BHUA-05	817.64								pale gn mi					15			
BHUA-05	817.90				hJ		50		wh mi		UN						
BHUA-05	818.01				hJ		20		pale gn mi		PR			1			
BHUA-05	818.07				hJ		0	90	anastomosed zone, pale gn alteration halo		UN						
BHUA-05	818.27	818.40			hJs	x4	65		pale gn mi		UN			10			
BHUA-05	818.49	818.60			hJs	x5	65		pale gn mi		UN		<	1			
BHUA-05	818.50				hJ		15		pale gn mi		UN		<	1			
BHUA-05	818.73				hJ		65		pale gn mi		UN			1			
BHUA-05	818.75				hJ		20		pale gn mi		UN			1			
BHUA-05	818.85				hJ		65		pale gn mi		UN			2			
BHUA-05	819.06				hJ		70		pale gn mi		UN			1			
BHUA-05	819.17				hJ		10		pale gn mi		UN			4			
BHUA-05	819.44				hJ		55		pale gn mi		UN			3			
BHUA-05	819.53				hJ		0		pale gn mi		UN			1			
BHUA-05	819.57				hJ		15		pale gn mi		UN			1			
BHUA-05	819.64				hJ		0		pale gn mi		UN			1			
BHUA-05	819.68				DB												
BHUA-05	819.80				hJ		0		bk mi		UN		<	1			
BHUA-05	819.91	820.05			hJs	x2	50		pale gn mi		UN			1			
BHUA-05	819.96	820.10			hJs	x2	0		pale gn mi		UN			10			
BHUA-05	820.12				hJ		30		pale gn mi		UN			1			
BHUA-05	820.12	820.30			hJs	x3	65		pale gn mi		UN		<	2			
BHUA-05	820.25				hJ		30		pale gn mi		UN			2			
BHUA-05	820.28	820.40			hJs	x11	45		pale gn mi		UN			1			
BHUA-05	820.61	820.75			hJs	x2	60		pale gn mi		PR			1			
BHUA-05	820.68				HB												
BHUA-05	820.77				hJ		35		pale gn mi		UN			5			
BHUA-05	820.79	820.95			hJs	x7	60		pale gn mi		PR-UN			5			
BHUA-05	821.15	821.30			hJs	x2	70		pale gn mi		PR			3			
BHUA-05	821.27				hJ		90				UN			1			
BHUA-05	821.37	821.50			hJs	x2	60		pale gn mi		PR			2			

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	821.44				hJ		60		pale gn mi		UN			1			
BHUA-05	821.72	821.81			hJs	x4	10	15	pale gn mi		UN			3			
BHUA-05	821.83				hJ		60		pale gn mi		UN			2			
BHUA-05	821.90				hJ		5		pale gn mi		UN			2			
BHUA-05	822.02	822.15			hJs	x2	10		pale gn mi		UN			2			
BHUA-05	822.13				hJ		45		pale gn mi		UN			5			
BHUA-05	822.31				hJ		5		pale gn mi		UN			2			
BHUA-05	822.49				hJ		70		pale gn mi		UN			5			
BHUA-05	822.55				hJ		20		pale gn mi		UN			3			
BHUA-05	822.65				hJ		10		wh mi		UN			2			
BHUA-05	822.66				DB												
BHUA-05	822.77				hJ		10		wh mi		UN			1			
BHUA-05	822.87				hJ		5		pale gn mi		UN			1			
BHUA-05	823.27	823.40			hJs	x5	0		pale gn mi		UN			1			
BHUA-05	823.45				hJ		15		pale gn mi		UN			1			
BHUA-05	823.73				hJ		20		wh mi		UN			1			
BHUA-05	823.81	823.98			hJs	x2	0		pale gn mi		UN			1			
BHUA-05	823.83				hJ		25		pale gn mi		UN			1			
BHUA-05	824.10				hJ		75		pale gn mi		UN			1			
BHUA-05	824.34	824.50			hJs	x2	5	15	pale gn mi		UN			1			
BHUA-05	824.57				hJ		0		pale gn mi		UN			1			
BHUA-05	824.74	824.90			hJs	x3	5		pale gn mi		UN			1			
BHUA-05	824.83	824.93			hJs	x2			pale gn mi		UN			1			
BHUA-05	825.07				hJ		0		pale gn mi		UN			1			
BHUA-05	825.37				hJ		65		pale gn mi		UN			1			
BHUA-05	825.68				DB												
BHUA-05	825.78				hJ		0		pale gn mi		UN			1			
BHUA-05	825.93				hJ		65		pale gn mi		UN			1			
BHUA-05	825.95				hJ		5		pale gn mi		UN			1			
BHUA-05	826.06	826.20			hJs	x2	0		pale gn mi		UN			1			
BHUA-05	826.10				hJ		65		pale gn mi		UN			1			
BHUA-05	826.35				hJ		55		pale gn mi		UN			2			
BHUA-05	826.43				hJ		65		pale gn mi		UN		<	1			
BHUA-05	826.51				hJ		45		pale gn mi		UN		<	1			
BHUA-05	826.58				hJ		65		pale gn mi		UN			1			
BHUA-05	826.66				hJ		10		pale gn mi		UN		<	1			
BHUA-05	826.70				hJ		70		pale gn mi		UN		<	1			
BHUA-05	826.88				hJ		50		pale gn mi		UN		<	1			
BHUA-05	827.23				hJ		70		wh mi		UN		<	1			
BHUA-05	827.25	827.40			hJs	x4	0	30	wh mi		UN			1			
BHUA-05	827.49				hJ		65		wh mi		UN-ST		<	1			
BHUA-05	827.59				hJ		45		pale gn mi		UN		<	1			
BHUA-05	827.63				hJ		10		pale gn mi		UN			1			
BHUA-05	827.65	827.80			hJs	x7	70		pale gn mi		UN-ST			1			
BHUA-05	827.80				hJ		0		pale gn mi		UN		<	1			
BHUA-05	827.87	827.98			hJs	x2	20		pale gn mi		UN		<	1			
BHUA-05	827.88				hJ		70		pale gn mi		UN			1			
BHUA-05	828.20	828.35			hJs	x2	10		br biotite infill		UN			1			
BHUA-05	828.27				hJ		60		pale gn mi		UN		<	1			
BHUA-05	828.32	828.45			hJs	x4	0		pale gn mi		UN		<	1			
BHUA-05	828.36				DB												
BHUA-05	828.41	828.54			hJs	x2	60		pale gn mi		UN		<	1			
BHUA-05	828.58	828.70			hJs	x2	20	30	pale gn mi		UN			1			
BHUA-05	828.63				hJ		80		pale gn mi		UN		<	1			
BHUA-05	828.72				hJ		40		pale gn mi		UN		<	1			
BHUA-05	828.76				HB												
BHUA-05	829.10				hJ		60		wh mi		PR		<	1			
BHUA-05	829.20				hJ		70		wh mi		ST		<	1			
BHUA-05	829.30				hJ		5		wh mi		ST						
BHUA-05	829.34				hJ		70		pale gn mi		UN		<	1			
BHUA-05	829.38				hJ		35		pale gn mi		UN		<	1			
BHUA-05	829.40				hJ		35				UN						
BHUA-05	829.42				DB												
BHUA-05	829.44	829.60			hJs	x4	25		pale gn mi		PR-UN		<	1			
BHUA-05	829.59				DB												
BHUA-05	829.61	829.75			hJs	x2	70	80	wh mi		UN		<	1			
BHUA-05	829.68				hJ		35		wh mi		UN		<	1			
BHUA-05	829.70				hJ		65		wh mi		UN		<	1			
BHUA-05	829.80				hJ		60		wh mi		ST			2			
BHUA-05	829.91				DB												
BHUA-05	829.92				hJ		5		wh mi		PR			1			
BHUA-05	830.07	830.20			hJs	x7	75		wh mi		PR-UN		<	1			
BHUA-05	830.31				hJ		30		wh mi		UN		<	1			
BHUA-05	830.36				DB												
BHUA-05	830.38				hJ		60		wi mi calb		PR-UN			3			
BHUA-05	830.39				DB												
BHUA-05	830.40	830.50			hJs	x2	55		wh mi		UN			1			
BHUA-05	830.42				hJ		5		wh mi		UN		<	1			
BHUA-05	830.47	830.60			hJs	x2	30	50	wh mi		UN			1			

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	830.54				DB												
BHUA-05	830.58	830.65			DB	x2											
BHUA-05	830.62	830.77			hJs	x2	70		wh mi		UN			1			
BHUA-05	830.70				SS		65		fine to medium gravel and sandy clay					30			
BHUA-05	830.83				hJ		70		wh mi		UN			3			
BHUA-05	830.89				hJ		5		pale gn and gy		UN		<	1			
BHUA-05	830.93	831.00			hJ	x2	80	85	gn alteration halo		UN-CU		<	1			
BHUA-05	830.98				hJ		15		wh mi		UN			1			
BHUA-05	831.16				hJ		15		wh mi		UN			1			
BHUA-05	831.24				hJ		5		wh mi		UN		<	1			
BHUA-05	831.28				DB												
BHUA-05	831.31				hJ		10		pale gn mi		UN		<	1			
BHUA-05	831.33				hJ		80		pale gn and whi mi		UN			1			
BHUA-05	831.38				hJ		20		pale gn and whi mi		UN		<	1			
BHUA-05	831.43				hJ		40		pale gn and whi mi		UN		<	1			
BHUA-05	831.47				hJ		85		wh mi		PR-UN			1			
BHUA-05	831.53	831.64			hJs	x2	10	15	wh mi		UN		<	1			
BHUA-05	831.55				hJ		55		wh mi		UN			1			
BHUA-05	831.57				hJ		70		wh mi		UN			2			
BHUA-05	831.69				DB												
BHUA-05	831.78				hJ		80		wh mi		UN			1			
BHUA-05	831.87	831.98			DB	x2											
BHUA-05	832.08	832.30			hJs	x10	65	90	anastomosed zone, pale gn to wh mi		UN		<	1			
BHUA-05	832.41				DB												
BHUA-05	832.46				hJ		15		alteration halo		UN		<	1			
BHUA-05	832.52	832.70			hJs	x3	70	90	pale gn to wh		UN		<	1			
BHUA-05	832.61				hJ		10		pale gn to wh		UN		<	1			
BHUA-05	832.64				DB												
BHUA-05	832.65				hJ		55		pale gn wh mi		UN						
BHUA-05	832.73				hJ		65		wh mi		UN			1			
BHUA-05	832.77				hJ		15		pale gn wh		UN						
BHUA-05	832.95				hJ		65		wh mi		UN		<	1			
BHUA-05	832.98				hJ		40		pale gn mi		UN						
BHUA-05	833.05				J		70		wh mi calcite		UN	RO					
BHUA-05	833.15				hJ		90		wh mi		UN		<	1			
BHUA-05	833.28				DB												
BHUA-05	833.36				hJ		75		pale gn mi		UN		<	1			
BHUA-05	833.45				DB												
BHUA-05	833.57				hJ		90		wh mi		UN		<	1			
BHUA-05	833.66				hJ		5		pale gn mi		UN			1			
BHUA-05	833.68				DB												
BHUA-05	833.70				hJ		80		wh mi		PR		<	1			
BHUA-05	833.71				hJ		5		pale gn mi		UN		<	1			
BHUA-05	833.72	833.85			hJs	x3	55		wh mi		UN		<	1			
BHUA-05	833.78				hJ		75		wh mi		UN		<	1			
BHUA-05	833.83	833.98			hJs	x7	55	80	pale gn mi		UN						
BHUA-05	834.04				J		65		wh mi calcite	VN	PR						
BHUA-05	834.09				hJ		25		pale gn mi		UN			1			
BHUA-05	834.10	834.30			hJs	x3	0		pale gn mi		UN						
BHUA-05	834.16				hJ		40		pale gn mi		UN		<	1			
BHUA-05	834.17	834.30			hJs	x3	5		pale gn mi		UN		<	1			
BHUA-05	834.25				DB												
BHUA-05	834.37				hJ		5		pale gn mi		ST			1			
BHUA-05	834.38	834.50			hJs	x4	30		pale gn mi		UN		<	1			
BHUA-05	834.50				hJ		20				UN		<	1			
BHUA-05	834.55	834.80			hJs	x9			anastomosed zone, generally high angle defects		UN		<	1			
BHUA-05	835.04				hJ		10		bk mi		UN			1			
BHUA-05	835.09	835.20			hJs	x2	5		bk mi		UN			1			
BHUA-05	835.36				hJ		10		bk mi		UN		<	1			
BHUA-05	835.60				hJ		45		pale gn mi		UN		<	1			
BHUA-05	835.75				hJ		0		pale gn mi		UN			1			
BHUA-05	835.77				hJ		0		pale gn mi		UN			1			
BHUA-05	836.15				hJ		80		pale gn mi		UN			1			
BHUA-05	836.17				hJ		10		pale gn mi		UN		<	1			
BHUA-05	836.32				hJ		80		pale gn mi		UN		<	1			
BHUA-05	836.69				DB												
BHUA-05	836.88				hJ		85		pale gn mi		UN		<	1			
BHUA-05	837.85				DB												
BHUA-05	838.26				hJ		20		pale gn mi		PR-UN			1			
BHUA-05	838.58				hJ		30		pale gn mi		PR-UN			1			
BHUA-05	839.00				hJ		25		pale gn mi		UN			1			
BHUA-05	839.07				hJ		20		pale gn mi		UN			1			
BHUA-05	840.14				hJ		50		wh mi		PR		<	1			
BHUA-05	840.16				hJ		5		wh mi		UN		<	1			
BHUA-05	840.25				hJ		70		wh mi		PR-UN		<	1			
BHUA-05	840.28				hJ		0		wh mi		PR		<	1			
BHUA-05	840.34				hJ		25		pale gn wh		UN			1			
BHUA-05	840.71				hJ		5		pale gn wh		PR			1			
BHUA-05	840.73				hJ		30		pale gn wh		UN			1			

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	840.76				hJ		70		pale gn wh		UN			1			
BHUA-05	840.93				hJ		15		pale gn wh		UN			1			
BHUA-05	841.13				hJ		85		wh to pale gn		PR						
BHUA-05	841.28				hJ		85		wh to pale gn		PR						
BHUA-05	841.40				hJ		85		wh to pale gn		PR						
BHUA-05	841.50	841.60			hJs	x2	15		wh to pale gn		PR						
BHUA-05	841.68				hJ		15		wh to pale gn		PR						
BHUA-05	841.78				hJ		70		wh to pale gn		PR						
BHUA-05	841.88	841.97			hJs	x4	15		wh to pale gn		PR						
BHUA-05	842.17	842.30			hJs	x3	15		pale gn mi		PR						
BHUA-05	842.21				hJ		20		pale gn mi		PR						
BHUA-05	842.30				hJ		20		pale gn mi		PR						
BHUA-05	842.35				hJ		70		pale gn mi		PR						
BHUA-05	842.46				hJ		55		pale gn mi		PR						
BHUA-05	842.53				hJ		20		pale gn mi		PR						
BHUA-05	842.74				hJ		15		pale gn mi		PR						
BHUA-05	842.79				hJ		30		pale gn mi		PR						
BHUA-05	842.81				hJ		25		pale gn mi		PR						
BHUA-05	842.91				hJ		60		pale gn mi		PR						
BHUA-05	842.94				hJ		45		pale gn mi		PR						
BHUA-05	843.01				hJ		15		pale gn mi		PR						
BHUA-05	843.12				hJ		15		pale gn mi		PR						
BHUA-05	843.14				hJ		65		pale gn mi		PR						
BHUA-05	843.23				hJ		60		pale gn mi		PR						
BHUA-05	843.50				hJ		75		pale gn mi		PR						
BHUA-05	843.51	843.70			hJs	x3	85		pale gn mi		PR						
BHUA-05	843.59				hJ		85		pale gn mi		PR						
BHUA-05	844.04				hJ		70		pale gn mi		PR						
BHUA-05	844.21	844.30			hJs	x2	30		pale gn mi		PR						
BHUA-05	844.34	844.45			hJs	x2	70		pale gn mi								
BHUA-05	844.46				hJ		45		pale gn mi								
BHUA-05	844.49				hJ		50		pale gn mi								
BHUA-05	844.54				hJ		65		pale gn mi								
BHUA-05	844.55	844.60			hJ		50	60	wh, pale gy		PR						
BHUA-05	844.59				hJ				anastomosed zone		PR						
BHUA-05	844.60				J		30		br, dark gy, gn	VN	PR						
BHUA-05	844.64				hJ		40		pale gn mi		PR						
BHUA-05	844.73	844.84			hJs	x3	80		pale gn mi								
BHUA-05	844.79				hJ		50		pale gn mi								
BHUA-05	844.85				J		10		br, dark gy, gn	VN	PR						
BHUA-05	844.89				hJ		60		pale gn mi								
BHUA-05	844.90				hJ		60		dark gy		PR						
BHUA-05	845.02				hJ		75		pale gn mi		PR						
BHUA-05	845.13				hJ		50		dark gy		PR						
BHUA-05	845.18	845.30			hJs	x4	65				PR						
BHUA-05	845.22				hJ		10		br		UN						
BHUA-05	845.30	845.45			hJs	x3			anastomosed zone								
BHUA-05	845.41	845.55			hJs	x3	65				PR						
BHUA-05	845.50				hJ		50		wh, pale gy		PR						
BHUA-05	845.56				hJ		25		pale gn mi		PR						
BHUA-05	845.80				hJ		40		pale gn mi		PR						
BHUA-05	845.94				hJ		85		pale gn mi		PR						
BHUA-05	845.99				hJ		0		pale gn mi		PR						
BHUA-05	846.02				hJ		20		pale gn mi		PR						
BHUA-05	846.12				hJ		60		wh, pale gy		PR						
BHUA-05	846.14				hJ		15		pale gn mi		PR						
BHUA-05	846.18				hJ		70		pale gn mi		PR						
BHUA-05	846.24				hJ				anastomosed zone								
BHUA-05	846.35				hJ		65		wh, pale gy		PR						
BHUA-05	846.55				hJ		30		pale gn mi		PR						
BHUA-05	846.59				hJ		20		pale gn mi		PR						
BHUA-05	846.62				hJ		20		pale gn mi		PR						
BHUA-05	846.72				hJ		20		pale gn mi		PR						
BHUA-05	846.76	846.87			hJs	x2	50		pale gn mi		PR						
BHUA-05	846.86				AZ				anastomosed zone								
BHUA-05	847.04	847.20			hJs	x5	80		pale gn mi		PR						
BHUA-05	847.13				hJ		50		pale gn mi		PR						
BHUA-05	847.17	847.30			hJs	x3	5		pale gn mi		PR						
BHUA-05	847.19				hJ		70		pale gn mi		PR						
BHUA-05	847.24	847.34			hJs	x2	10		pale gn mi		PR						
BHUA-05	847.33				hJ		20		pale gn mi		PR						
BHUA-05	847.39				hJ		90		pale gn mi		PR						
BHUA-05	847.42				hJ		10		pale gn mi		PR						
BHUA-05	847.53				hJ		80		pale gn mi		PR						
BHUA-05	847.58				hJ		20		pale gn mi		PR						
BHUA-05	847.72				hJ		10		pale gn mi		PR						
BHUA-05	847.73				hJ		80		pale gn mi		PR						
BHUA-05	847.78				hJ		75		pale gn mi		PR						
BHUA-05	847.81				hJ		10		pale gn mi		PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	847.86				hJ		70		pale gn mi		PR						
BHUA-05	847.93				hJ		20		pale gn mi		PR						
BHUA-05	847.97				hJ		20		pale gn mi		PR						
BHUA-05	847.98				AZ				anastomosed zone								
BHUA-05	848.15				hJ				pale gn mi		PR						
BHUA-05	848.20	848.50			hJs	x2	60	70	wh, pale gy		PR						
BHUA-05	848.21				hJ		10		pale gn mi		PR						
BHUA-05	848.22				hJ		75		pale gn mi		PR						
BHUA-05	848.27				hJ		10		pale gn mi		PR						
BHUA-05	848.36				hJ		85		pale gn mi		PR						
BHUA-05	848.42				hJ		15		pale gn mi		PR						
BHUA-05	848.44				hJ		5		pale gn mi		PR						
BHUA-05	848.57				hJ		80		pale gn mi		PR						
BHUA-05	848.60				hJ		50		pale gn mi		PR						
BHUA-05	848.63				hJ		5		pale gn mi		PR						
BHUA-05	848.65				hJ		50		pale gn mi		PR						
BHUA-05	848.66				hJ		10		pale gn mi		PR						
BHUA-05	848.90				hJ		60		wh, pale gy		PR						
BHUA-05	848.91				hJ		60		pale gn mi		PR						
BHUA-05	848.94				hJ		60		pale gn mi		PR						
BHUA-05	848.97				hJ		10		pale gn mi		PR						
BHUA-05	849.05				hJ		10		pale gn mi		PR						
BHUA-05	849.14				hJ		10		pale gn mi		PR						
BHUA-05	849.24				hJ		70		pale gn mi		PR						
BHUA-05	849.28				hJ		5		pale gn mi		PR						
BHUA-05	849.50	850.00			hJ		80	90	wh, pale gy		UN						
BHUA-05	849.60				hJ		50		rd mi		PR						
BHUA-05	849.70				hJ		85		pale gn mi		PR						
BHUA-05	849.71				hJ				anastomosed zone								
BHUA-05	850.03	850.15			hJs	x2	30		pale gn mi		PR						
BHUA-05	850.22				hJ		65		pale gn mi		PR						
BHUA-05	850.25				hJ		50		pale gn mi		PR						
BHUA-05	850.32				hJ		70		pale gn mi		PR						
BHUA-05	850.37				hJ		70		pale gn mi		PR						
BHUA-05	850.43	854.60			hJs	x5	25		pale gn mi		PR						
BHUA-05	850.49	850.61			hJs	x6	10		pale gn mi		PR						
BHUA-05	850.50	850.54			J		40		pale gn mi	SN	CU	RF					
BHUA-05	850.52				hJ				anastomosed zone								
BHUA-05	850.72				hJ		15		pale gn mi		PR						
BHUA-05	850.73	850.88			hJs	x3	80		pale gn mi		PR						
BHUA-05	850.80				J		5	20	pale gn mi	SN	CU	RF					
BHUA-05	850.88	850.97			hJs	x4	70		pale gn mi		PR						
BHUA-05	851.04				CO		40		pale gn mi	VN							
BHUA-05	851.08	851.30			hJs	x3	40		wh to yl mi		PR						
BHUA-05	851.12				hJ		70		wh to yl mi		PR						
BHUA-05	851.25				hJ		10		wh mi		PR						
BHUA-05	851.30	851.40			hJs	x2	50		wh mi		PR						
BHUA-05	851.47				hJ		60		wh mi		PR						
BHUA-05	851.62				J		0		gy mi	SN	PR	RF					
BHUA-05	851.63				hJ		15		wh mi		PR						
BHUA-05	851.68				hJ		50		wh mi		PR						
BHUA-05	851.70				hJ		10		wh mi		PR						
BHUA-05	851.73				hJ		70		wh mi		PR						
BHUA-05	851.79				hJ		50		wh mi		PR						
BHUA-05	851.82				J		10		gy mi	SN	PR	RF					
BHUA-05	851.83				J		15		wh mi	VN	PR						
BHUA-05	852.13				hJ		80		wh mi		PR						
BHUA-05	852.21				hJ		75		wh mi		PR						
BHUA-05	852.25				hJ		50		wh mi		PR						
BHUA-05	852.26				CO												
BHUA-05	852.32				hJ		35		bk to yl mi		PR						
BHUA-05	852.45				hJ		30		bk to yl mi		PR						
BHUA-05	852.47				hJ		0		bk to yl mi		PR						
BHUA-05	852.53	852.65			hJs	x2	20		bk to yl mi		PR						
BHUA-05	852.59				hJ		30		bk to yl mi		PR						
BHUA-05	852.61				hJ		20		bk to yl mi		PR						
BHUA-05	852.66				hJ		5		bk to yl mi		PR						
BHUA-05	852.70				hJ		10		bk to yl mi		PR						
BHUA-05	852.80				CO	/V x2	80		wh mi Qtz	VN	UN						
BHUA-05	852.81				hJ		55		wh mi Qtz		PR						
BHUA-05	852.82				hJ		0		bk to yl mi		PR						
BHUA-05	852.87	852.98			hJs	x2	0		bk to yl mi		UN						
BHUA-05	852.95				hJ		0		pale gn mi		PR						
BHUA-05	852.98				hJ		80		pale gn mi		PR						
BHUA-05	852.99				hJ		50		pale gn mi		PR						
BHUA-05	853.04	853.20			hJs	x2	60		pale gn mi		PR						
BHUA-05	853.10				hJ		70				PR						
BHUA-05	853.20				hJ		80				PR						
BHUA-05	853.26	853.30			hJs	x2	20				PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	853.29				V		70				PR						
BHUA-05	853.30				hJ		75		wh mi Qtz		UN						
BHUA-05	853.31				hJ		60		wh to pale gn mi		PR						
BHUA-05	853.41				hJ		25		wh to pale gn mi		PR						
BHUA-05	853.45				hJ		60		wh to pale gn mi		PR						
BHUA-05	853.56				hJ		70		wh to pale gn mi		PR						
BHUA-05	853.59				hJ		10		wh to pale gn mi		PR						
BHUA-05	853.65				hJ		10		wh to pale gn mi		PR						
BHUA-05	853.70				hJ		10		wh to pale gn mi		PR						
BHUA-05	853.73				hJ		75		wh to pale gn mi		PR						
BHUA-05	853.81				CO		45				PR						
BHUA-05	853.82				hJ				anastomosed zone								
BHUA-05	853.94				hJ		70		wh to pale gn mi		PR						
BHUA-05	853.96				hJ		65		wh mi		PR						
BHUA-05	853.97				hJ		85		wh mi		PR						
BHUA-05	853.98				hJ		50		wh mi		PR						
BHUA-05	854.18				hJ		80		wh mi		PR						
BHUA-05	854.27				hJ		80		wh mi		PR						
BHUA-05	854.28				hJ		30		wh mi		PR						
BHUA-05	854.34				hJ		35		wh mi		PR						
BHUA-05	854.36				CO		45										
BHUA-05	854.41				hJ		10		wh mi		PR						
BHUA-05	854.48				hJ		70		wh mi		PR						
BHUA-05	854.58	854.70			hJs	x3	80		wh mi		PR						
BHUA-05	854.66				hJ		70		wh mi		PR						
BHUA-05	854.73				hJ		75		wh mi		PR						
BHUA-05	854.80				hJ		90		wh mi		PR						
BHUA-05	854.91	855.05			hJs	x4	75		wh mi		PR						
BHUA-05	855.04				hJ		40		pale gn mi		PR						
BHUA-05	855.13				hJ		50				PR						
BHUA-05	855.16	855.30			hJs	x2	65				PR						
BHUA-05	855.18				hJ		80		pale gn mi		PR						
BHUA-05	855.21				hJ		75		pale gn mi		PR						
BHUA-05	855.29				hJ		30		pale gn mi		PR						
BHUA-05	855.30				DB												
BHUA-05	855.34				hJ		5		pale gn mi		PR						
BHUA-05	855.37				hJ		50		pale gn mi		PR						
BHUA-05	855.45				hJ		15		pale gn mi		PR						
BHUA-05	855.52				hJ		60		pale gn mi		PR						
BHUA-05	855.60				hJ		80		pale gn mi		PR						
BHUA-05	855.68				hJ		60		pale gn mi		PR						
BHUA-05	855.69				hJ		15		pale gn mi		PR						
BHUA-05	855.74				hJ		5		pale gn mi		PR						
BHUA-05	855.76				hJ		20		pale gn mi		PR						
BHUA-05	855.77				hJ		0		pale gn mi		PR						
BHUA-05	855.78				hJ		70		pale gn mi		PR						
BHUA-05	855.81				hJ		65		pale gn mi		PR						
BHUA-05	855.82				hJ		0				PR						
BHUA-05	855.86				hJ		30		pale gn mi		PR						
BHUA-05	855.90				hJ		50		pale gn mi		PR						
BHUA-05	855.98				hJ		85		pale gn mi		PR						
BHUA-05	856.04				hJ		10		pale gn mi		PR						
BHUA-05	856.05				hJ		80		pale gn mi		PR						
BHUA-05	856.06				hJ		70		pale gn mi		PR						
BHUA-05	856.10				hJ		90		pale gn mi		PR						
BHUA-05	856.19				hJ		60		pale gn mi		PR						
BHUA-05	856.24				hJ		25		pale gn mi		PR						
BHUA-05	856.29				hJ		10		pale gn mi		PR						
BHUA-05	856.34				hJ		25		pale gn mi		PR						
BHUA-05	856.36				hJ		30		pale gn mi		PR						
BHUA-05	856.40				hJ		90		pale gn mi		PR						
BHUA-05	856.44				hJ		20		pale gn mi		PR						
BHUA-05	856.51				hJ		30		pale gn mi		PR						
BHUA-05	856.53				hJ		20		pale gn mi		PR						
BHUA-05	856.58				hJ		85		pale gn mi		PR						
BHUA-05	856.60				hJ				anastomosed zone								
BHUA-05	856.70				hJ		65		pale gn mi		PR						
BHUA-05	856.74				hJ		10		pale gn mi		PR						
BHUA-05	856.75				CO		45		bk mi	SN	UN	RF					
BHUA-05	856.79				hJ		10		pale gn mi		PR						
BHUA-05	856.84				hJ		25		pale gn mi		PR						
BHUA-05	856.85				hJ		80		pale gn mi		PR						
BHUA-05	856.86				hJ		10		pale gn mi		PR						
BHUA-05	856.89				hJ		35		pale gn mi		PR						
BHUA-05	856.96				hJ		90		pale gn mi		PR						
BHUA-05	857.05				hJ		90		pale gn mi		PR						
BHUA-05	857.07				hJ		15		pale gn mi		PR						
BHUA-05	857.10				hJ		75		pale gn mi		PR						
BHUA-05	857.12				hJ		40		pale gn mi		PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	857.17				hJ		70		pale gn mi		PR						
BHUA-05	857.21				CO		50		alternating basalt/granite bands, 10-200mm thick								
BHUA-05	857.25				hJ		80		pale gn mi		PR						
BHUA-05	857.28				DB												
BHUA-05	857.32				hJ		75		pale gn mi		PR						
BHUA-05	857.39				hJ		20		pale gn mi		PR						
BHUA-05	857.47				hJ		60		pale gn mi		PR						
BHUA-05	857.49				hJ		25		pale gn mi		PR						
BHUA-05	857.83				hJ		30		pale gn mi		PR						
BHUA-05	857.85				hJ		40		pale gn mi		PR						
BHUA-05	857.94				hJ		25		pale gn mi		PR						
BHUA-05	857.96				hJ		35		pale gn mi		PR						
BHUA-05	857.99				hJ		55		pale gn mi		PR						
BHUA-05	858.04				hJ		60		pale gn mi		PR						
BHUA-05	858.05				hJ		70		pale gn mi		PR						
BHUA-05	858.06				hJ		0		pale gn mi		PR						
BHUA-05	858.17				hJ		15		pale gn mi		PR						
BHUA-05	858.22				hJ		15		pale gn mi		PR						
BHUA-05	858.24				hJ		20		pale gn mi		PR						
BHUA-05	858.25				hJ		70		pale gn mi		PR						
BHUA-05	858.28				hJ		60		pale gn mi		PR						
BHUA-05	858.31				hJ		0		pale gn mi		PR						
BHUA-05	858.37				hJ		0		pale gn mi		PR						
BHUA-05	858.41				hJ		50		pale gn mi		PR						
BHUA-05	858.51				hJ		20		pale gn mi		PR						
BHUA-05	858.53				hJ		60		pale gn mi		PR						
BHUA-05	858.64				hJ		40		pale gn mi		PR						
BHUA-05	858.80				hJ		75		pale gn mi		PR						
BHUA-05	858.90				hJ		75		pale gn mi		PR						
BHUA-05	858.95				hJ		65		pale gn mi		PR						
BHUA-05	858.96				hJ		90		pale gn mi		PR						
BHUA-05	858.97				hJ		75		pale gn mi		PR						
BHUA-05	858.99				hJ		65		pale gn mi		PR						
BHUA-05	859.04				hJ		65		pale gn mi		PR						
BHUA-05	859.15				hJ		70		pale gn mi		PR						
BHUA-05	859.22				hJ		80		pale gn mi		PR						
BHUA-05	859.30				hJ		65		pale gn mi		PR						
BHUA-05	859.38				hJ		50		pale gn mi		PR						
BHUA-05	859.45				hJ		80		pale gn mi		PR						
BHUA-05	859.56	859.70			hJs	x3	55		pale gn mi		PR						
BHUA-05	859.74	859.86			hJs	x5	60		pale gn mi		PR						
BHUA-05	859.96	860.06			hJs	x3	60		pale gn mi		PR						
BHUA-05	860.18				hJ		65		pale gn mi		PR						
BHUA-05	860.20				DB												
BHUA-05	860.22				hJ		55		pale gn mi		PR						
BHUA-05	860.24				hJ		5		pale gn mi		PR						
BHUA-05	860.35	860.50			hJs	x3	10		pale gn mi		PR						
BHUA-05	860.43	860.60			hJs	x4	10		pale gn mi		PR						
BHUA-05	860.45				DB												
BHUA-05	860.82				hJ		15		pale gn mi		PR						
BHUA-05	861.12				hJ		70		pale gn mi		PR						
BHUA-05	861.27				hJ		70		pale gn mi		PR						
BHUA-05	861.36	861.45			hJs	x2	75		pale gn mi		PR						
BHUA-05	861.46	861.60			hJs	x2	20		pale gn mi		PR						
BHUA-05	861.49				hJ		65		pale gn mi		PR						
BHUA-05	861.50	861.65			hJs	x5	15		pale gn mi		PR						
BHUA-05	861.52				J		15		bk mi	SN	UN	RF					
BHUA-05	861.63	861.75			hJs	x5	25		pale gn mi		PR						
BHUA-05	861.80				hJ		35		pale gn mi		PR						
BHUA-05	861.82	861.95			hJs	x2	15		pale gn mi		PR						
BHUA-05	861.87	861.99			hJs	x2	20		pale gn mi		PR						
BHUA-05	862.04				hJ		60		pale gn mi		PR						
BHUA-05	862.37	862.50			hJs	x2	75		pale gn mi		PR						
BHUA-05	862.55				hJ		70		pale gn mi		PR						
BHUA-05	862.56				hJ		80		pale gn mi		PR						
BHUA-05	862.79	862.90			hJs	x5	70		pale gn mi		PR						
BHUA-05	862.90				hJ		20		pale gn mi		PR						
BHUA-05	863.12				hJ		25		pale gn mi		PR						
BHUA-05	863.19	863.30			hJs	x2	80		pale gn mi		PR						
BHUA-05	863.21				hJ		25		pale gn mi		PR						
BHUA-05	863.26				hJ		10		pale gn mi		PR						
BHUA-05	863.28				hJ		80		pale gn mi		PR						
BHUA-05	863.33				hJ		30		pale gn mi		PR						
BHUA-05	863.37				hJ		10		pale gn mi		PR						
BHUA-05	863.47				hJ		10		pale gn mi		PR						
BHUA-05	863.52				hJ		0		pale gn mi		PR						
BHUA-05	863.60				hJ		10		pale gn mi		PR						
BHUA-05	863.69	863.80			hJs	x2	75		pale gn mi		PR						
BHUA-05	864.06				hJ		85		pale gn mi		PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	864.11				hJ		15		pale gn mi		PR						
BHUA-05	864.22				CO												
BHUA-05	864.23				hJ				pale gn mi		PR						
BHUA-05	864.48				CO												
BHUA-05	864.49				hJ		90		pale gn mi		PR						
BHUA-05	864.50				hJ		30		pale gn mi		PR						
BHUA-05	864.53	864.72			hJs	x5	20		pale gn mi		PR						
BHUA-05	864.55				hJ		90		pale gn mi		PR						
BHUA-05	864.60				DB												
BHUA-05	864.64				hJ		20		pale gn mi		PR						
BHUA-05	864.66				hJ		85		pale gn mi		PR						
BHUA-05	864.70				hJ		45		pale gn mi		PR						
BHUA-05	864.71				hJ		60		pale gn mi		PR						
BHUA-05	864.75				hJ		85		pale gn mi		PR						
BHUA-05	864.79	864.90			hJ	x2	20		pale gn mi		PR						
BHUA-05	864.80				hJ		60		pale gn mi		PR						
BHUA-05	864.88				hJ		90		pale gn mi		PR						
BHUA-05	864.91				hJ		80		pale gn mi		PR						
BHUA-05	864.98	865.10			hJs	x2	70		pale gn mi		PR						
BHUA-05	865.04				hJ		0				PR						
BHUA-05	865.05	865.15			hJs	x3	25				PR						
BHUA-05	865.09	865.23			hJs	x4	15				PR						
BHUA-05	865.19	865.33			hJs	x2	0				PR						
BHUA-05	865.22				hJ		15				PR						
BHUA-05	865.27	865.35			hJs	x7	15				PR						
BHUA-05	865.37				hJ		60				PR						
BHUA-05	865.41				DB												
BHUA-05	865.48				hJ		20				PR						
BHUA-05	865.52	865.70			hJs	x4	45				PR						
BHUA-05	865.69				hJ		55				PR						
BHUA-05	865.74				hJ		60				PR						
BHUA-05	865.83				hJ		75				PR						
BHUA-05	865.86				hJ		80				PR						
BHUA-05	866.06				hJ		90				PR						
BHUA-05	866.07				hJ		85				PR						
BHUA-05	866.14				hJ		50				PR						
BHUA-05	866.16				hJ		75				PR						
BHUA-05	866.20				hJ		0				PR						
BHUA-05	866.23				hJ		60				PR						
BHUA-05	866.26				hJ		0				PR						
BHUA-05	866.30	866.40			hJs	x2	10				PR						
BHUA-05	866.34				hJ		20				PR						
BHUA-05	866.39				hJ		85				PR						
BHUA-05	866.40	866.50			hJs	x3	15				PR						
BHUA-05	866.52	866.68			hJs	x2	0				PR						
BHUA-05	866.60	866.72			hJs	x2	60				PR						
BHUA-05	866.65	866.80			hJ	x2	10				PR						
BHUA-05	866.74				hJ		70				PR						
BHUA-05	866.80				hJ		90				PR						
BHUA-05	866.88				hJ		20				PR						
BHUA-05	866.90				hJ		60				PR						
BHUA-05	866.98				hJ		40				PR						
BHUA-05	867.13	867.25			hJs	x2	70				PR						
BHUA-05	867.18				hJ		70				PR						
BHUA-05	867.25				AZ												
BHUA-05	867.30				V		70				PR						
BHUA-05	867.36				hJ		30				PR						
BHUA-05	867.38				hJ		20				PR						
BHUA-05	867.44				hJ		25				PR						
BHUA-05	867.56				hJ		65				PR						
BHUA-05	867.68	867.80			hJs	x3	65				PR						
BHUA-05	867.71	867.84			hJs	x2	20				PR						
BHUA-05	867.83				J		70			VN	PR						
BHUA-05	867.86				J		70			VN	PR						
BHUA-05	867.93				V		70			VN	PR		<	15			
BHUA-05	868.03	868.12			hJs	x3	70				PR						
BHUA-05	868.11				V		70				PR						
BHUA-05	868.23	868.33			hJs	x3	80				PR						
BHUA-05	868.32	868.45			hJs	x4	55				PR						
BHUA-05	868.37				hJ		55				PR						
BHUA-05	868.38				hJ		10				PR						
BHUA-05	868.46				hJ		10				PR						
BHUA-05	868.52				hJ		30				PR						
BHUA-05	868.60	868.70			hJs	x3	80				PR						
BHUA-05	868.80				J		65				PR	SM					
BHUA-05	868.83				hJ		80				PR						
BHUA-05	868.92				CO		60				PR						
BHUA-05	868.97				hJ		40				PR						
BHUA-05	869.03				hJ		90				PR						

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Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	869.05				hJ		50				PR						
BHUA-05	869.09	869.20			hJs	x7	70				PR						
BHUA-05	869.29				DB												
BHUA-05	869.56				hJ		90				PR						
BHUA-05	869.58				hJ		75				PR						
BHUA-05	869.62				AZ												
BHUA-05	869.70				hJ		75				PR						
BHUA-05	869.75				hJ		75				PR						
BHUA-05	869.85				hJ		25				PR						
BHUA-05	869.90				hJ		55				PR						
BHUA-05	869.93	870.12			hJs	x2	30				PR						
BHUA-05	869.97				hJ		55				PR						
BHUA-05	869.99				hJ		70				PR						
BHUA-05	870.08				hJ		70				PR						
BHUA-05	870.15	870.30			hJs	x3	70				PR						
BHUA-05	870.27				hJ		70				PR						
BHUA-05	870.33				hJ		70				PR						
BHUA-05	870.36				hJ		20				PR						
BHUA-05	870.40				hJ		70				PR						
BHUA-05	870.63				hJ		60				PR						
BHUA-05	870.67				hJ		60				PR						
BHUA-05	870.78				J		5		wh mi	VN	UN	RF					
BHUA-05	870.81	870.97			hJs	x5	70				PR						
BHUA-05	870.86				hJ		30				PR						
BHUA-05	870.91				hJ		10				PR						
BHUA-05	871.13				hJ		70				PR						
BHUA-05	871.14	871.30			hJs	x3	20				PR						
BHUA-05	871.19	871.33			hJs	x2	20				PR						
BHUA-05	871.20				hJ		80				PR						
BHUA-05	871.23	871.40			hJs	x4	15				PR						
BHUA-05	871.28				hJ		80				PR						
BHUA-05	871.38				hJ		50				PR						
BHUA-05	871.45	871.60			hJs	x7	10				PR						
BHUA-05	871.48				hJ		85				PR						
BHUA-05	871.53				DB												
BHUA-05	871.60	871.75			hJs	x2	20				PR						
BHUA-05	871.70	871.85			hJs	x2	35				PR						
BHUA-05	871.80	871.90			hJs	x4	80				PR						
BHUA-05	871.81	871.92			hJs	x2	55				PR						
BHUA-05	871.91	871.98			hJs	x3	85				PR						
BHUA-05	871.98	872.10			hJs	x2	60				PR						
BHUA-05	871.99	872.45			CO		60	90		CN	UN	SM					closed to healed, opened by drilling
BHUA-05	872.06				hJ		60				PR						
BHUA-05	872.08				hJ		0				PR						
BHUA-05	872.09	872.25			hJs	x2	80				PR						
BHUA-05	872.11	872.30			hJs	x3	10				PR						
BHUA-05	872.15	872.40			hJs	x6	60				PR						
BHUA-05	872.18				hJ		20				PR						
BHUA-05	872.20				hJ		85				PR						
BHUA-05	872.21	872.32			hJs	x2	20				PR						
BHUA-05	872.25				hJ		20				PR						
BHUA-05	872.28				hJ		90				PR						
BHUA-05	872.39				AZ												
BHUA-05	872.60	872.75			CO		50				PR						healed
BHUA-05	872.70	872.83			hJs	x4	50				PR						
BHUA-05	872.76				hJ		60				PR						
BHUA-05	872.80				hJ		80				PR						
BHUA-05	872.91				hJ		60				PR						
BHUA-05	872.92				hJ		70				PR						
BHUA-05	873.02				hJ		0				PR						
BHUA-05	873.10				hJ		80				PR						
BHUA-05	873.13				hJ		75				PR						
BHUA-05	873.20				hJ		55				PR						
BHUA-05	873.25				hJs		75				PR						
BHUA-05	873.30				hJ		35				PR						
BHUA-05	873.33				hJ		60				PR						
BHUA-05	873.36				hJ		70				PR						
BHUA-05	873.44				hJ		40				PR						
BHUA-05	873.47				hJ		30				PR						
BHUA-05	873.51				hJ		90				PR						
BHUA-05	873.58				hJ		90				PR						
BHUA-05	873.68				J		65			CN	PR						
BHUA-05	873.74				J		80			CN	IR						
BHUA-05	873.77				hJ		60				PR						
BHUA-05	873.79	873.90			hJs	x2	45				PR						
BHUA-05	873.89				hJ		90				PR						
BHUA-05	873.92				hJ		50				PR						
BHUA-05	874.05				hJ		75				PR						
BHUA-05	874.07	874.30			hJs	x3	75				PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	874.11				hJ		15				PR						
BHUA-05	874.22	874.36			hJs	x3	75				PR						
BHUA-05	874.38				hJ		60				PR						
BHUA-05	874.44				hJ		75				PR						
BHUA-05	874.50	874.60			hJs	x3	60				PR						
BHUA-05	874.53	874.70			hJs	x6	70				PR						
BHUA-05	874.54	874.65			hJs	x2	10				PR						
BHUA-05	874.70	874.84			hJs	x5	60				PR						
BHUA-05	874.93	874.98			hJs	x3	75				PR						
BHUA-05	875.08	875.20			hJs	x3	60				PR						
BHUA-05	875.15				hJ		60				PR						
BHUA-05	875.16				hJ		70				PR						
BHUA-05	875.22				hJ		75				PR						
BHUA-05	875.41	875.56			hJs	x2	10				PR						
BHUA-05	875.52	875.68			hJs	x8	80				PR						
BHUA-05	875.65	875.76			hJs	x3	10				PR						
BHUA-05	875.70				V						PR		<	6			
BHUA-05	875.90	876.00			hJs	x3					PR						
BHUA-05	875.96				hJ						PR						
BHUA-05	875.98	876.10			hJs	x2	20				PR						
BHUA-05	876.12	876.25			hJs	x2					PR						
BHUA-05	876.22	876.30			hJs	x4	65				PR						
BHUA-05	876.23	876.35			hJs	x10	20				PR						
BHUA-05	876.35	876.40			hJs	x3	80				PR						
BHUA-05	876.50				hJ		10				PR						
BHUA-05	876.55				hJ		70				PR						
BHUA-05	876.59				hJ		65				PR						
BHUA-05	876.69	876.80			hJs	x2	55				PR						
BHUA-05	876.73	876.90			hJs	x2	40				PR						
BHUA-05	876.79				hJ		70				PR						
BHUA-05	876.80	876.94			hJs	x3	35				PR						
BHUA-05	876.92				hJ		80				PR						
BHUA-05	876.98	877.10			hJs	x2	30				PR						
BHUA-05	877.05				hJ		75				PR						
BHUA-05	877.07				hJ		25				PR						
BHUA-05	877.14				hJ		70				PR						
BHUA-05	877.19				AZ												
BHUA-05	877.34				hJ		25				PR						
BHUA-05	877.36				hJ		60				PR						
BHUA-05	877.38				hJ		40				PR						
BHUA-05	877.40				hJ		75				PR						
BHUA-05	877.45				hJ		80				PR						
BHUA-05	877.54				hJ		55				PR						
BHUA-05	877.57				hJ		70				PR						
BHUA-05	877.63				hJ		60				PR						
BHUA-05	877.65				hJ		25				PR						
BHUA-05	877.76	877.90			hJs	x2	65				PR						
BHUA-05	877.81				hJ		55				PR						
BHUA-05	877.97				hJ		65				PR						
BHUA-05	878.08	878.30			hJs	x5	60				PR						
BHUA-05	878.21				hJ		60				PR						
BHUA-05	878.25				hJ		20				PR						
BHUA-05	878.27				hJ		60				PR						
BHUA-05	878.37				hJ		70				PR						
BHUA-05	878.44				hJ		65				PR						
BHUA-05	878.59				hJ		70				PR						
BHUA-05	878.70				hJ		30				PR						
BHUA-05	878.75				hJ		85				PR						
BHUA-05	878.93	879.20			hJs	x2	50				PR						
BHUA-05	879.11	879.30			hJs	x4	55				PR						
BHUA-05	879.22	879.33			hJs	x5	60				PR						
BHUA-05	879.27				hJ		80				PR						
BHUA-05	879.31				hJ		70				PR						
BHUA-05	879.35				hJ		60				PR						
BHUA-05	879.38				hJ		20				PR						
BHUA-05	879.42	879.50			hJs	x2	50				PR						
BHUA-05	879.50				hJ		60				PR						
BHUA-05	879.67				hJ		80				PR						
BHUA-05	879.74				hJ		25				PR						
BHUA-05	879.78				hJ		85				PR						
BHUA-05	879.89	879.98			hJs	x2	60				PR						
BHUA-05	879.95	880.06			hJs	x2	80				PR						
BHUA-05	880.05				hJ		80				PR						
BHUA-05	880.11				J		70			CN	PR						
BHUA-05	880.16				V		80						<	1			
BHUA-05	880.19				hJ		90				PR						
BHUA-05	880.25				J		70			VN	PR						
BHUA-05	880.33	880.50			hJs	x6	60				PR						
BHUA-05	880.54				hJ		70				PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	880.60	880.68			hJs	x2	70				PR						
BHUA-05	880.70				hJ		80				PR						
BHUA-05	880.73				hJ		15				PR						
BHUA-05	880.76				hJ		40				PR						
BHUA-05	880.82				V								<	2			
BHUA-05	880.83	880.97			Js	x4	70			VN	PR						
BHUA-05	880.95				hJ		90				PR						
BHUA-05	881.09				hJ		80				PR						
BHUA-05	881.19				hJ		80				PR						
BHUA-05	881.35	881.50			hJs	x2	70				PR						
BHUA-05	881.40				hJ		80				PR						
BHUA-05	881.56				hJ		80				PR						
BHUA-05	881.57				hJ		30				PR						
BHUA-05	881.61				hJ		40				PR						
BHUA-05	881.70				J		40										
BHUA-05	881.82				hJ		50				PR						
BHUA-05	881.88				hJ		40				PR						
BHUA-05	881.93				hJ		50				PR						
BHUA-05	881.97				hJ		45				PR						
BHUA-05	882.06	882.30			hJs	x4	65				PR						
BHUA-05	882.18				hJ		90				PR						
BHUA-05	882.30	882.45			hJs	x2	60				PR						
BHUA-05	882.35	882.50			hJs	x2	0				PR						
BHUA-05	882.37				hJ		70				PR						
BHUA-05	882.40				hJ		50				PR						
BHUA-05	882.42				hJ		60				PR						
BHUA-05	882.45				hJ		45				PR						
BHUA-05	882.50				hJ		60				PR						
BHUA-05	882.68				hJ		0				PR						
BHUA-05	882.70	882.80			hJs	x2	50				PR						
BHUA-05	882.72	882.80			hJs	x2	5				PR						
BHUA-05	882.82	882.90			hJs	x2	50				PR						
BHUA-05	882.83				hJ		10				PR						
BHUA-05	882.85	883.00			hJs	x4	50				PR						
BHUA-05	882.95				hJ		75				PR						
BHUA-05	883.04				hJ		20				PR						
BHUA-05	883.05				hJ		40				PR						
BHUA-05	883.11				hJ		50				PR						
BHUA-05	883.13				hJ		20				PR						
BHUA-05	883.15				hJ		50				PR						
BHUA-05	883.21				hJ		30				PR						
BHUA-05	883.29				hJ		70				PR						
BHUA-05	883.29	883.40			hJ	x4	50				PR						
BHUA-05	883.34				hJ		70				PR						
BHUA-05	883.38				V		25				PR						
BHUA-05	883.44				hJ		20				PR						
BHUA-05	883.45				hJ		75				PR						
BHUA-05	883.49				hJ		90				PR						
BHUA-05	883.50				hJ		35				PR						
BHUA-05	883.51				hJ		5				PR						
BHUA-05	883.53	883.92			SZ		20	75									multiple wedged shear CU surfaces (30-100mm spacing), wh mi VN, generally closed, significant defect
BHUA-05	883.56	883.70			hJ	x6	70				PR						
BHUA-05	883.69				CO		85										
BHUA-05	883.85	883.96			hJ	x2	15				PR						
BHUA-05	883.88				hJ		80				PR						
BHUA-05	883.90	884.10			hJ	x3	15				PR						
BHUA-05	883.96				CO		65										
BHUA-05	884.15				V		75				PR						
BHUA-05	884.19				hJ		75				PR						
BHUA-05	884.21				hJ		40				PR						
BHUA-05	884.23				J		25			SN	PR						
BHUA-05	884.25				hJ		40				PR						
BHUA-05	884.34	884.46			V	x2	70				PR						
BHUA-05	884.38				hJ		90				PR						
BHUA-05	884.42				hJ		5				PR						
BHUA-05	884.45				hJ		90				PR						
BHUA-05	884.46				hJ		80				PR						
BHUA-05	884.50				hJ		5				PR						
BHUA-05	884.55				hJ		65				PR						
BHUA-05	884.56	884.67			hJ	x3	45				PR						
BHUA-05	884.60				hJ		10				PR						
BHUA-05	884.61				hJ		5				PR						
BHUA-05	884.65				hJ		70				PR						
BHUA-05	884.68				hJ		40				PR						
BHUA-05	884.72				hJ		5				PR						
BHUA-05	884.79				hJ						PR						
BHUA-05	884.85	884.94			V	x3					PR						
BHUA-05	884.90	884.98			hJ	x3	30				PR						
BHUA-05	884.92	885.23			hJ		70				PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	884.93				hJ		70				PR						
BHUA-05	885.15	885.26			AZ		10	60	gy mi		UN						multiple defects, generally sub-horizontal, 0-10mm spacing
BHUA-05	885.22				J		40		bk mi	SN	UN	SM					
BHUA-05	885.35				hJ		60				PR						
BHUA-05	885.41	885.60			hJ	x2	50				PR						
BHUA-05	885.46				hJ		60				PR						
BHUA-05	885.61				J		10			VN	CU	RF					
BHUA-05	885.62	885.84			AZ						IR						multiple defects, various angles, yl, gy mi, 1-2mm, 0-10mm spacing
BHUA-05	885.63	885.75			hJs	x2	40				PR						
BHUA-05	885.64	885.74			hJ		60		pl yl mi		UN						
BHUA-05	885.68	885.85			CO		70			CN	UN	SM					
BHUA-05	885.68	885.86			hJ		70		wh mi		ST						
BHUA-05	885.69	885.72			hJ		0	45	wh mi		CU						
BHUA-05	885.74				J		10			CN	UN	SM					
BHUA-05	885.91				J		0	20	gy mi		CU	SM					
BHUA-05	885.92	886.10			hJ		70		wh mi		UN						
BHUA-05	885.93	886.12			CO		70		gy mi		UN	RF					
BHUA-05	885.94				hJ		30			SN	PR						
BHUA-05	885.94	886.13			J		70			CN	UN	SM					
BHUA-05	886.18				hJ		80				PR						
BHUA-05	886.20	886.30			hJs	x2	40				PR						
BHUA-05	886.23	886.35			hJs	x6	50				PR						
BHUA-05	886.31				hJ		0				PR						
BHUA-05	886.34	886.44			hJs	x2	35				PR						
BHUA-05	886.39	886.50			hJs	x2	5				PR						
BHUA-05	886.42				hJ		25				PR						
BHUA-05	886.46	886.60			hJs	x2	15				PR						
BHUA-05	886.54				hJ		65				PR						
BHUA-05	886.56				hJ		25				PR						
BHUA-05	886.57				hJ		65				PR						
BHUA-05	886.67				hJ		55				PR						
BHUA-05	886.70	886.77			hJs	x2	10				PR						
BHUA-05	886.74				hJ		60				PR						
BHUA-05	886.80				hJ		50				PR						
BHUA-05	886.86				hJ		70				PR						
BHUA-05	887.11				hJ		65				PR						
BHUA-05	887.20				hJ		30				PR						
BHUA-05	887.22				hJ		35				PR						
BHUA-05	887.23				hJ		70				PR						
BHUA-05	887.26				hJ		5				PR						
BHUA-05	887.37				hJ		75				PR						
BHUA-05	887.48				hJ		60				PR						
BHUA-05	887.51				hJ		30				PR						
BHUA-05	887.52				hJ		90				PR						
BHUA-05	887.57	887.70			hJs	x6	55				PR						
BHUA-05	887.68				hJ		30				PR						
BHUA-05	887.70				hJ		50				PR						
BHUA-05	887.78				hJ		60				PR						
BHUA-05	887.79				hJ		65				PR						
BHUA-05	887.91				hJ		60				PR						
BHUA-05	888.82				hJ		55				PR						
BHUA-05	889.27	889.38			hJs	x2	10				PR						
BHUA-05	889.35				hJ		70				PR						
BHUA-05	889.86	889.97			hJs	x3	80				PR						
BHUA-05	889.94				hJ		75				PR						
BHUA-05	889.96				hJ		25				PR						
BHUA-05	889.97				hJ		0				PR						
BHUA-05	890.16	890.30			hJs	x2	75				PR						
BHUA-05	890.23				hJ		25				PR						
BHUA-05	890.29				hJ		35				PR						
BHUA-05	890.35				hJ		75				PR						
BHUA-05	890.38	890.50			hJs	x3	25				PR						
BHUA-05	890.56				hJ		80				PR						
BHUA-05	890.63				hJ		55				PR						
BHUA-05	891.31	891.46			hJs	x2	35				PR						
BHUA-05	891.40	891.65			hJ		70		bk-gy mi		PR						
BHUA-05	891.46				J		70		bk mi	SN	PR	SM					
BHUA-05	891.50	891.99			hJ		85		bk-gy mi		PR						
BHUA-05	891.89				hJ		90				PR						
BHUA-05	891.97				hJ		35				PR						
BHUA-05	892.10				hJ		65				PR						
BHUA-05	892.14	892.30			hJs	x3	65										
BHUA-05	892.21				hJ		65				PR						
BHUA-05	892.55				hJ		10				PR						
BHUA-05	892.57				hJ		80				PR						
BHUA-05	892.61				hJ		30				PR						
BHUA-05	892.91				hJ		90				PR						
BHUA-05	893.14	893.30			hJs	x4	60				PR						
BHUA-05	893.25				hJ		10				PR						

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Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHUA-05
Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHUA-05	893.29	893.40			hJs	x2	60				PR						
BHUA-05	893.32				hJ		70				PR						
BHUA-05	893.40				V		70		br-yl mi		PR						
BHUA-05	893.49				hJ		70				PR						
BHUA-05	893.56				hJ		70				PR						
BHUA-05	893.59				hJ		15				PR						
BHUA-05	893.61				hJ		25				PR						
BHUA-05	893.65				hJ		70				PR						
BHUA-05	893.97				hJ		70				PR						
BHUA-05	894.05				hJ		70				PR						
BHUA-05	894.21	894.30			hJs	x5	60				PR						
BHUA-05	894.23				hJ		40		br-yl mi		PR						
BHUA-05	894.32	894.46			hJs	x3	15				PR						
BHUA-05	894.40				hJ		35				PR						
BHUA-05	894.60				hJ		60				PR						
BHUA-05	894.72				V		65		br-yl mi		PR		<	3			
BHUA-05	894.75	894.90			hJs	x2	65				PR						
BHUA-05	894.87				hJ		65				PR						
BHUA-05	895.07	895.20			hJs	x5	70				PR						
BHUA-05	895.61	895.70			hJs	x4	40				PR						
BHUA-05	895.79	895.90			hJs	x2	70				PR						
BHUA-05	895.95				hJ		15				PR						
BHUA-05	896.17	896.30			hJs	x3	25				PR						
BHUA-05	896.45	896.60			hJs	x6	65				PR						
BHUA-05	896.54				hJ		10				PR						
BHUA-05	896.69				hJ		65				PR						
BHUA-05	896.75				hJ		65				PR						
BHUA-05	896.90				hJ		20				PR						
BHUA-05	897.06				hJ		45				PR						
BHUA-05	897.09				hJ		70				PR						
BHUA-05	897.13				hJ		60				PR						
BHUA-05	897.16				hJ		80				PR						
BHUA-05	897.20				hJ		80				PR						
BHUA-05	897.25				hJ		65				PR						
BHUA-05	897.29				hJ		65				PR						
BHUA-05	897.43				hJ		65				PR						
BHUA-05	897.49	897.60			hJs	x3	5				PR						
BHUA-05	897.67				V		45				PR						
BHUA-05	897.72				hJ		0				PR						
BHUA-05	897.73				hJ		15				PR						
BHUA-05	897.80				hJ		20				PR						
BHUA-05	897.90				hJ		10				PR						
BHUA-05	898.11				hJ		85				PR						
BHUA-05	898.15				hJ		40				PR						
BHUA-05	898.43				hJ		60				PR						
BHUA-05	898.54	898.68			hJs	x2	25				PR						
BHUA-05	898.64	898.78			hJs	x2	85				PR						
BHUA-05	898.83	898.90			V		50		br-yl mi		PR						
BHUA-05	898.91				J		15		br-yl mi	SN	UN	RF					
BHUA-05	898.91	899.04			J		70		br-yl mi	SN	UN	RF					
BHUA-05	899.05				hJ		0				PR						
BHUA-05	899.08				hJ		85				PR						
BHUA-05	899.09				hJ		15				PR						
BHUA-05	899.12				hJ		40				PR						
BHUA-05	899.19	899.23			hJs	x2	10				PR						
BHUA-05	899.24	899.40			hJs	x2	10				PR						
BHUA-05	899.40				hJ		15				PR						
BHUA-05	899.45				hJ		70				PR						
BHUA-05	899.50				hJ		50				PR						
BHUA-05	899.57	899.68			hJs	x2	60				PR						
BHUA-05	899.72	899.84			hJs	x2	20				PR						
BHUA-05	899.80				hJ		55				PR						
BHUA-05	899.90				hJ		20				PR						
BHUA-05	899.92				hJ		90				PR						
BHUA-05	900.15				hJ		70				PR						
BHUA-05	900.16				hJ		5				PR						
BHUA-05	900.21				hJ		80				PR						
BHUA-05	900.33				hJ		60				PR						

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Preliminary

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:19 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 4.30 - 7.00 m

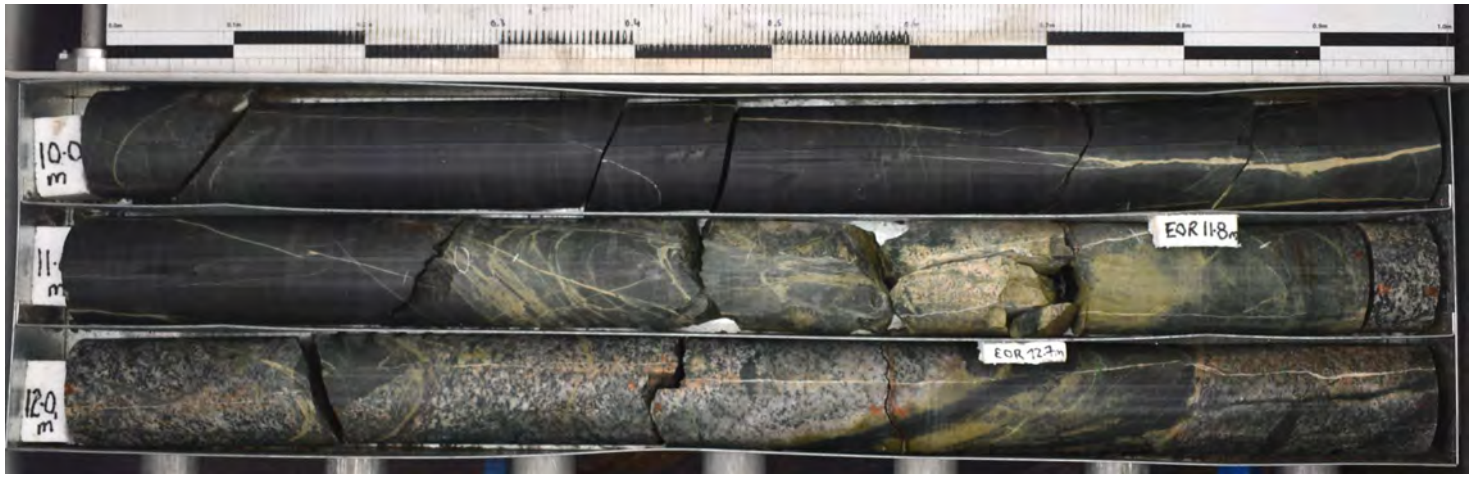


PointID : BHUA-05 Depth Range: 7.00 - 10.00 m

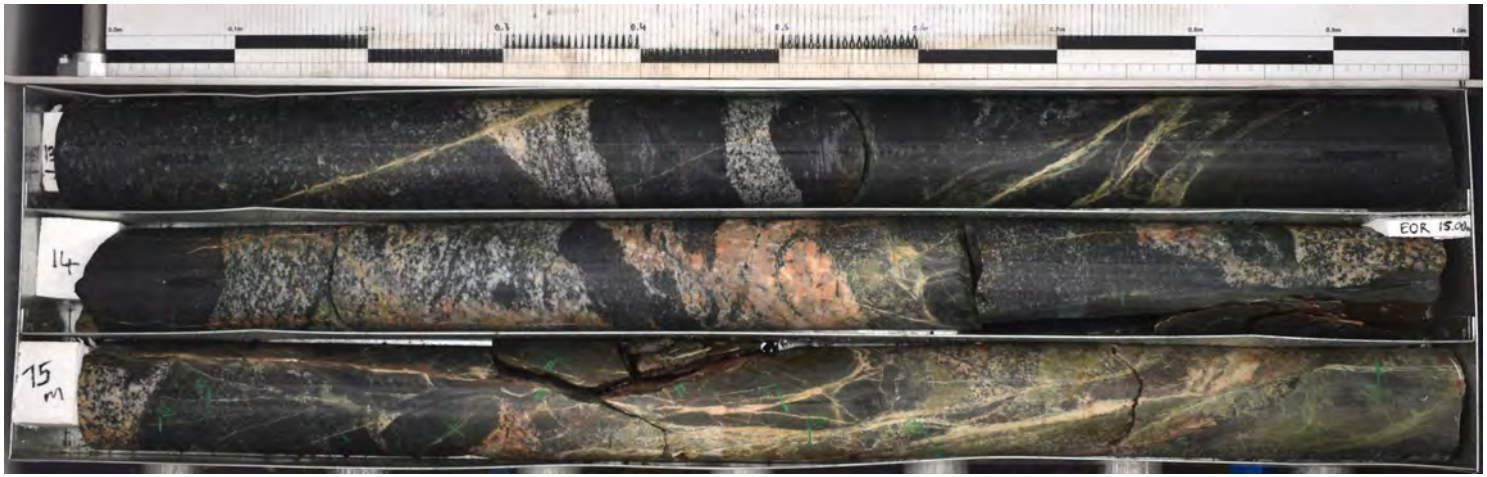
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 1/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:20 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 10.00 - 13.00 m



PointID : BHUA-05 Depth Range: 13.00 - 16.00 m

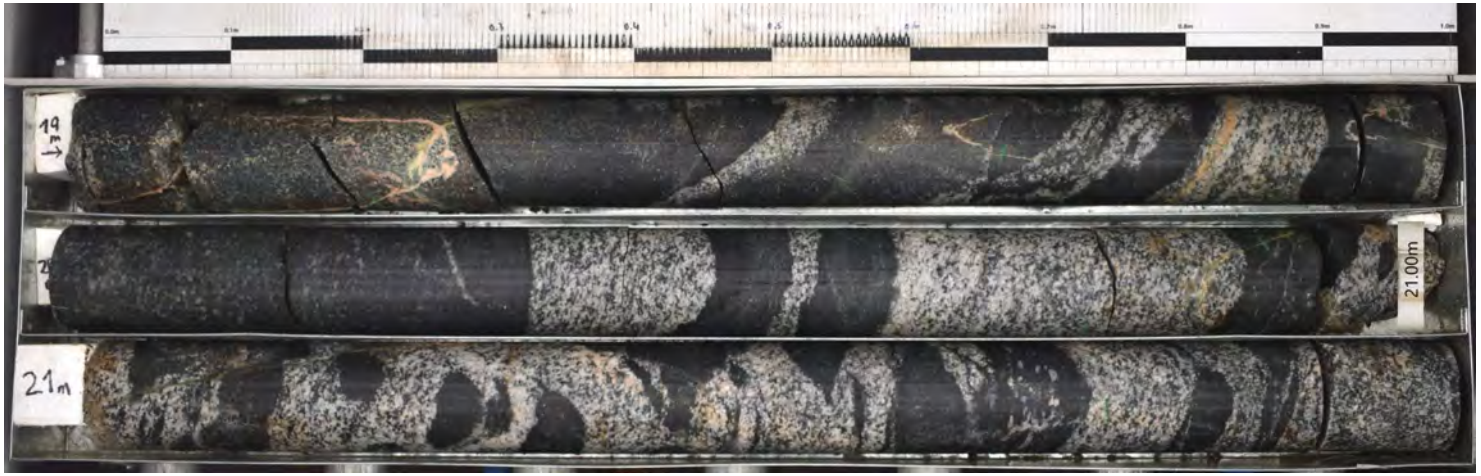
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 2/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:20 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 16.00 - 19.00 m



PointID : BHUA-05 Depth Range: 19.00 - 22.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 3/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:20 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 22.00 - 25.00 m

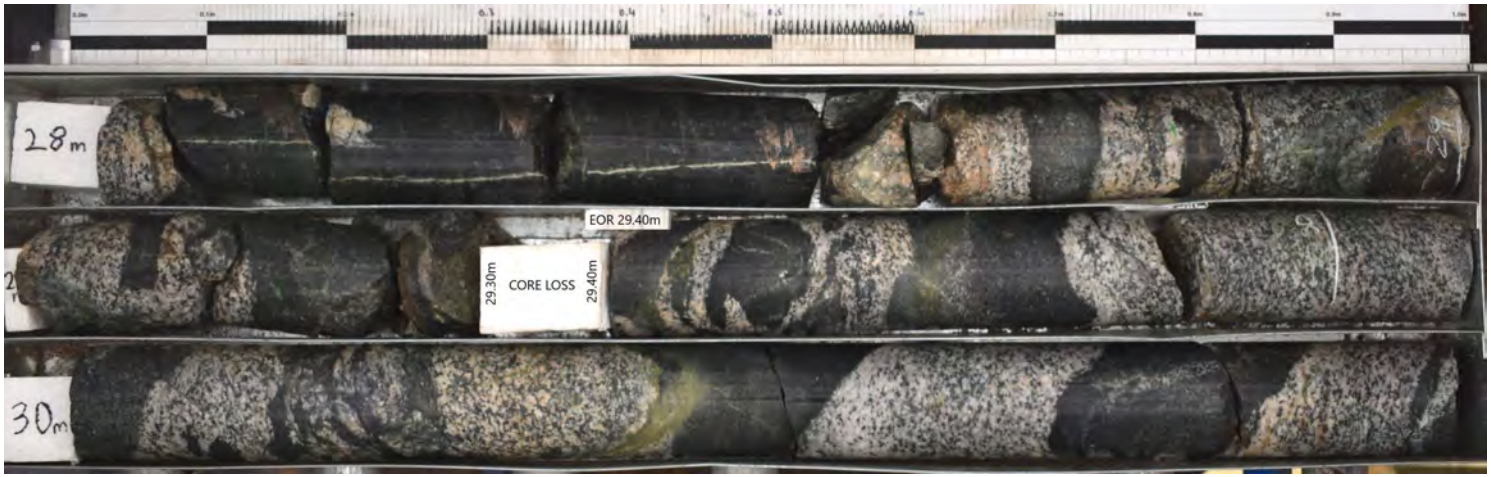


PointID : BHUA-05 Depth Range: 25.00 - 28.00 m

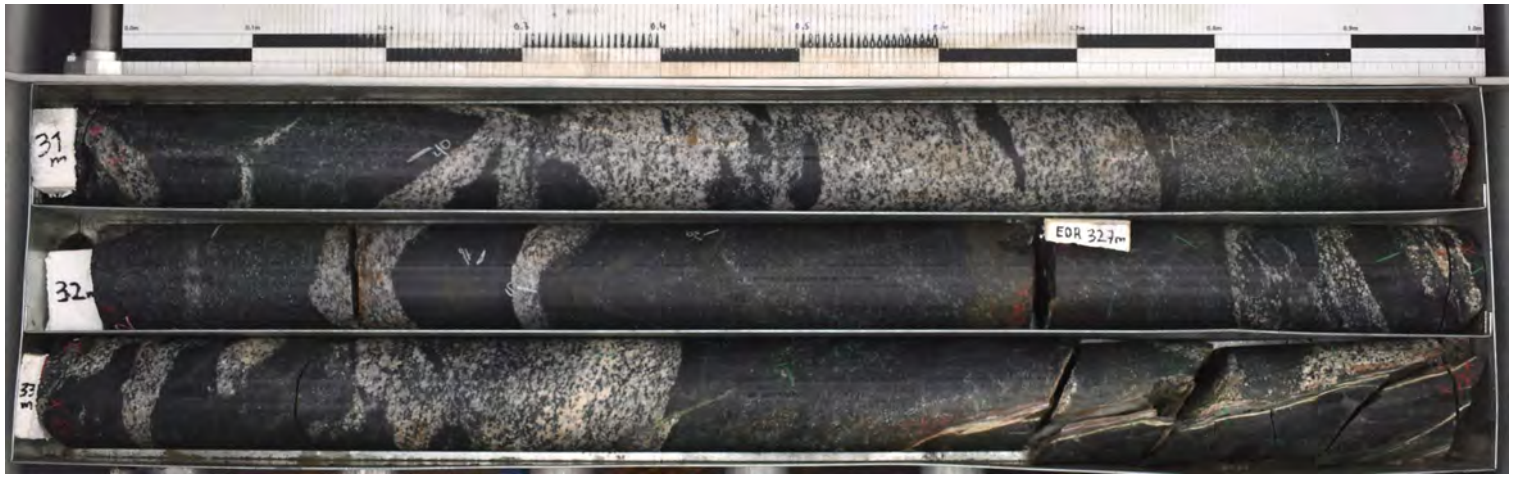
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 4/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:20 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 28.00 - 31.00 m

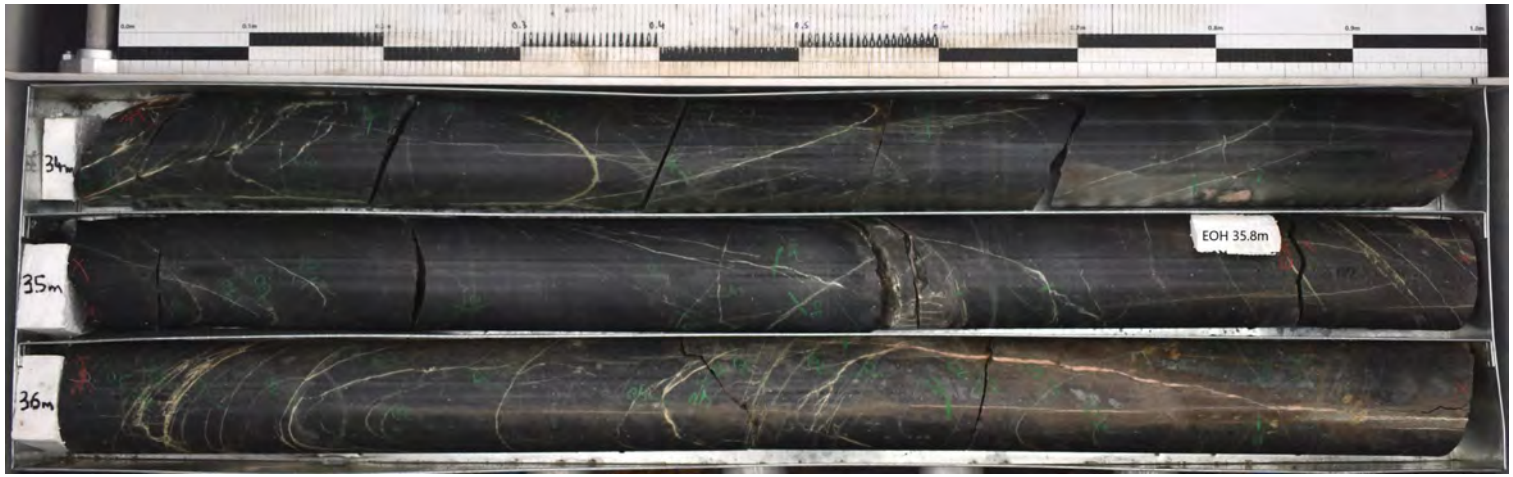


PointID : BHUA-05 Depth Range: 31.00 - 34.00 m

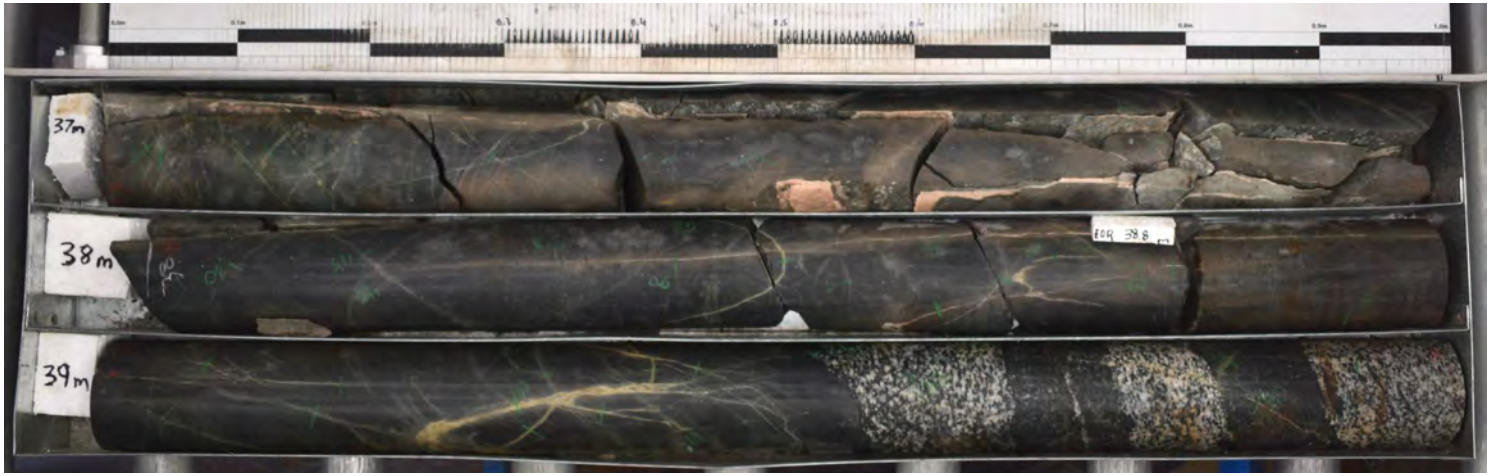
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 5/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:20 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 34.00 - 37.00 m

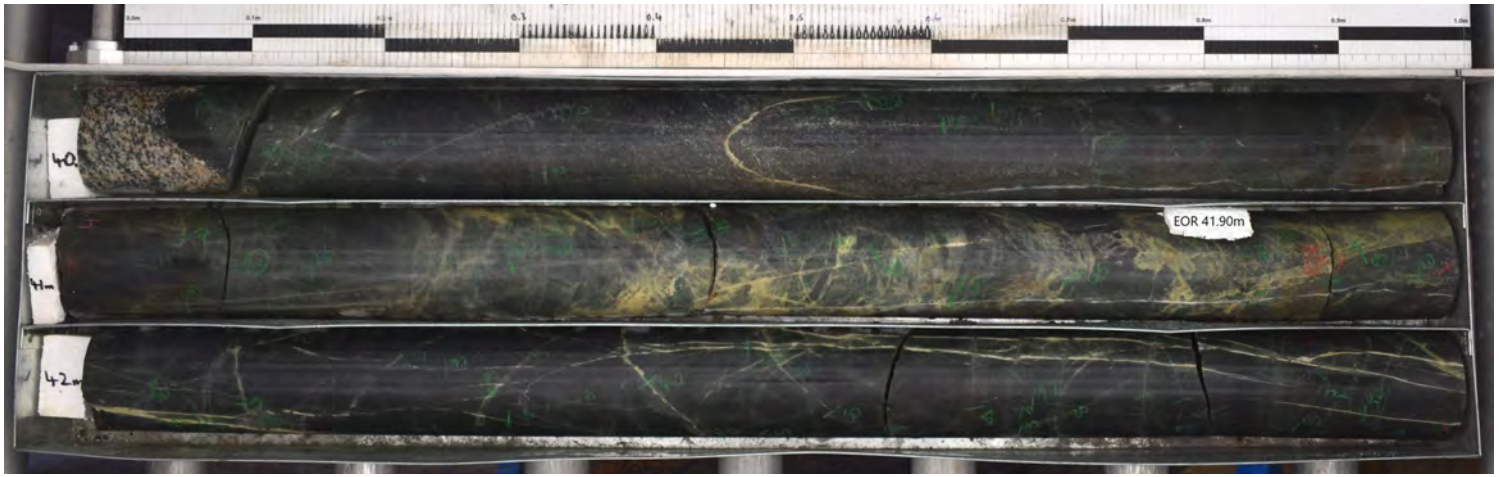


PointID : BHUA-05 Depth Range: 37.00 - 40.00 m

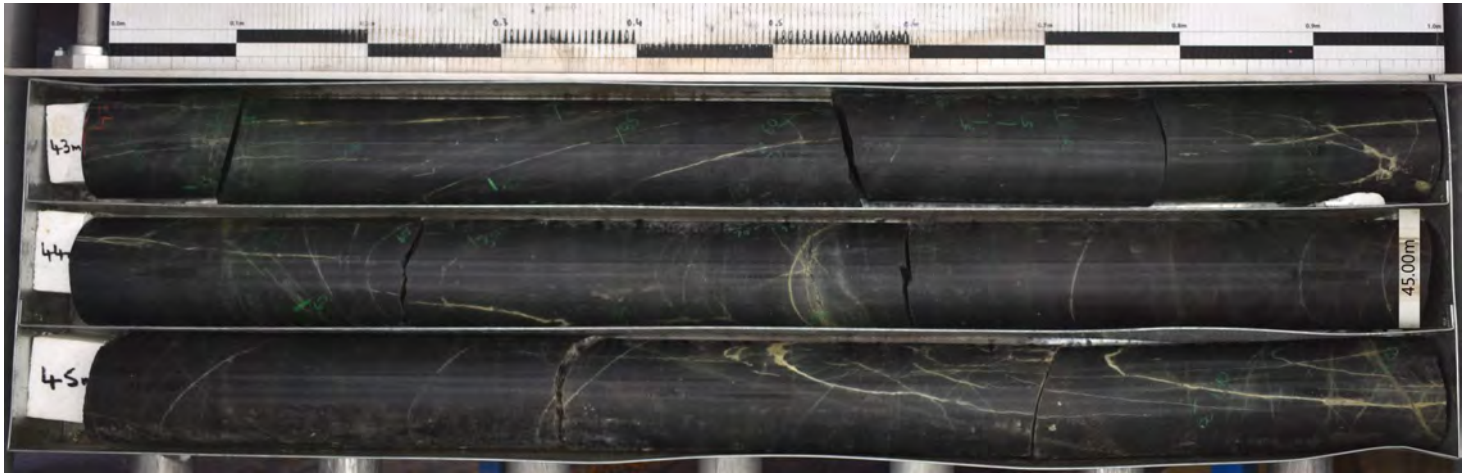
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 6/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:20 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 40.00 - 43.00 m

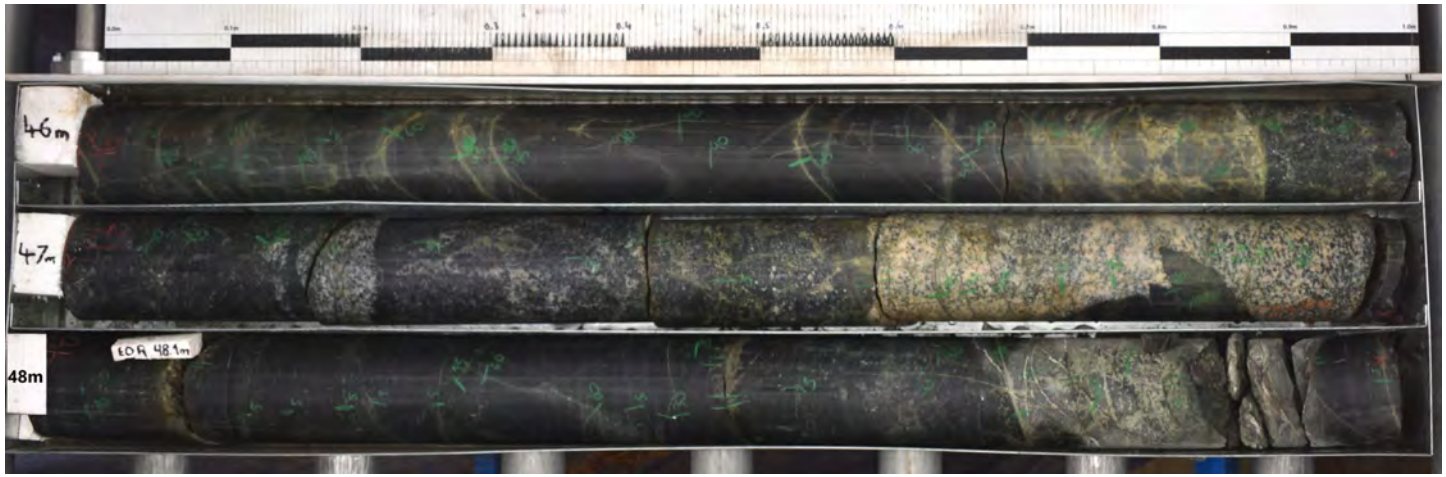


PointID : BHUA-05 Depth Range: 43.00 - 46.00 m

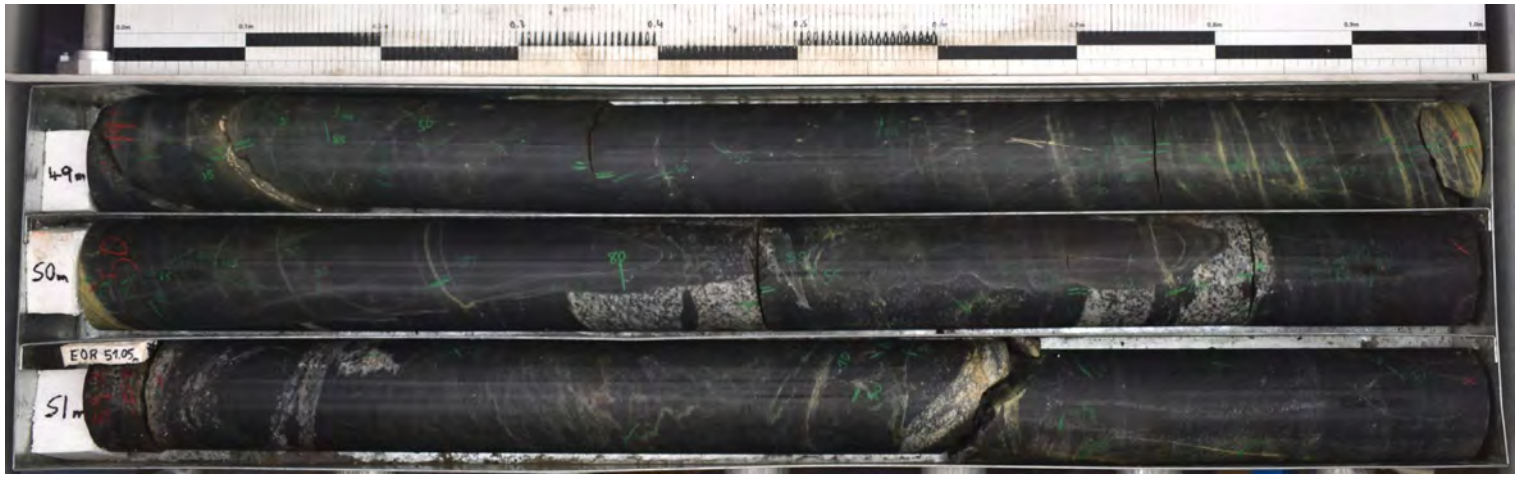
wsp	TITLE Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN RC	DATE 29/11/2024
		CHECKED GEM	DATE 4/12/2024
		SCALE Not To Scale	A4
		PROJECT No PS138693	FIGURE No 7/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:20 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 46.00 - 49.00 m

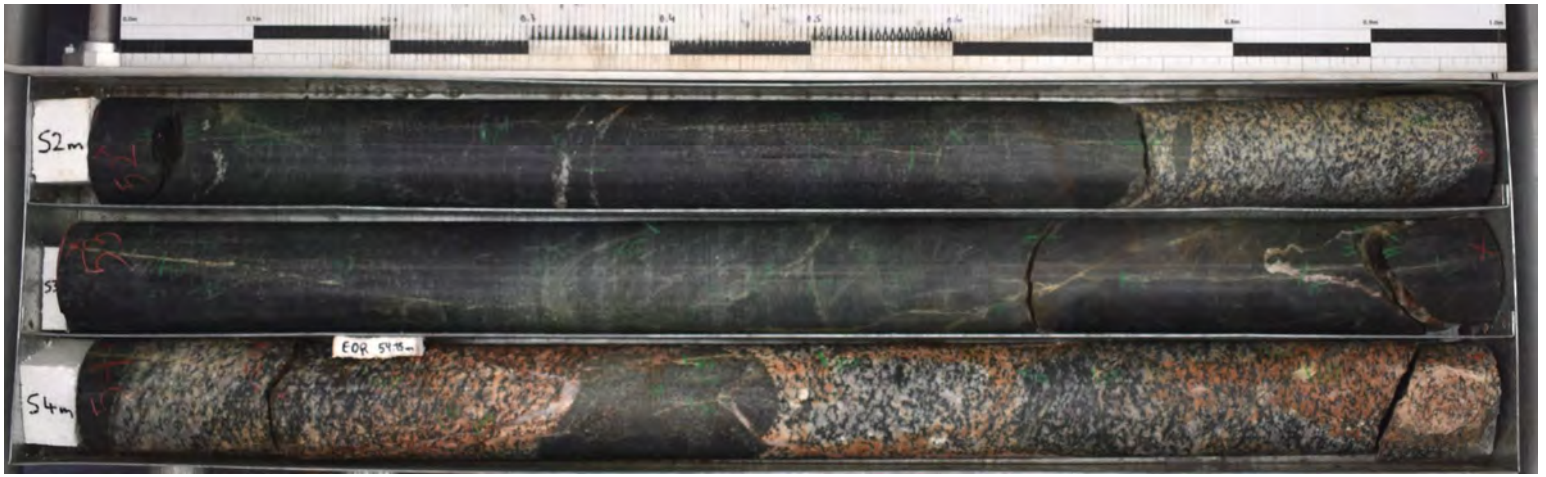


PointID : BHUA-05 Depth Range: 49.00 - 52.00 m

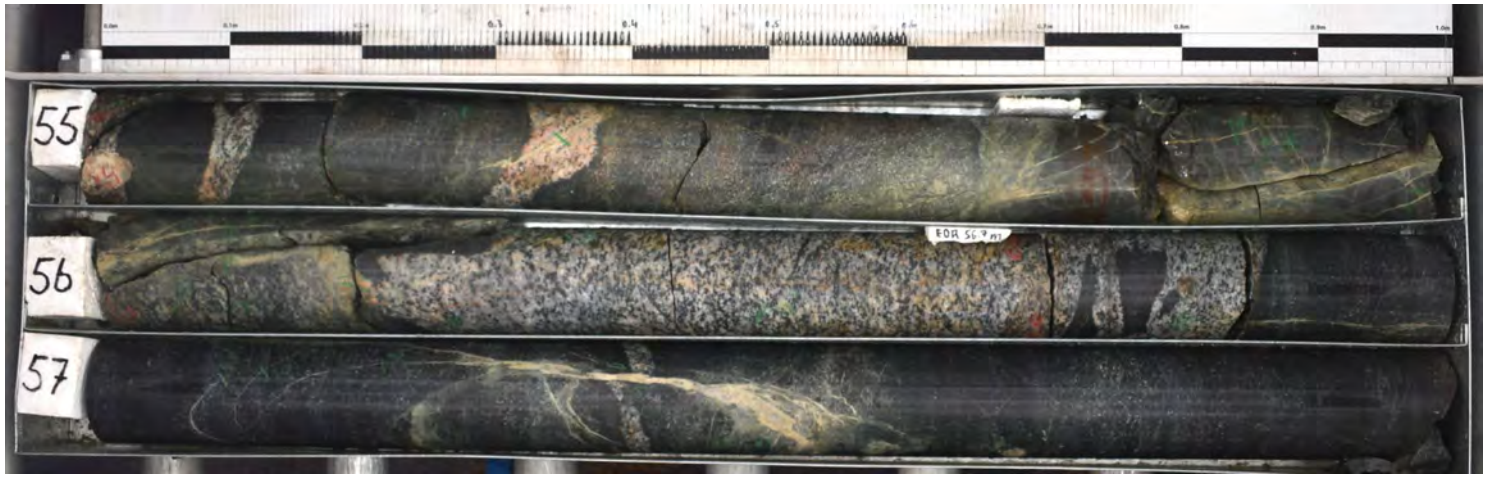
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 8/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:20 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 52.00 - 55.00 m

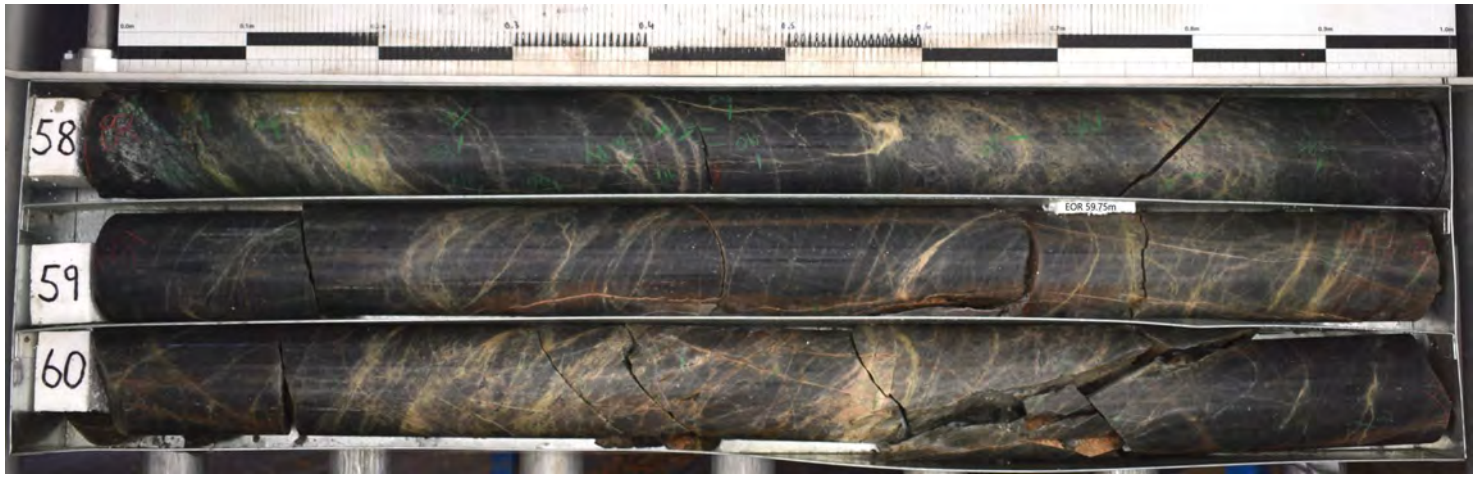


PointID : BHUA-05 Depth Range: 55.00 - 58.00 m

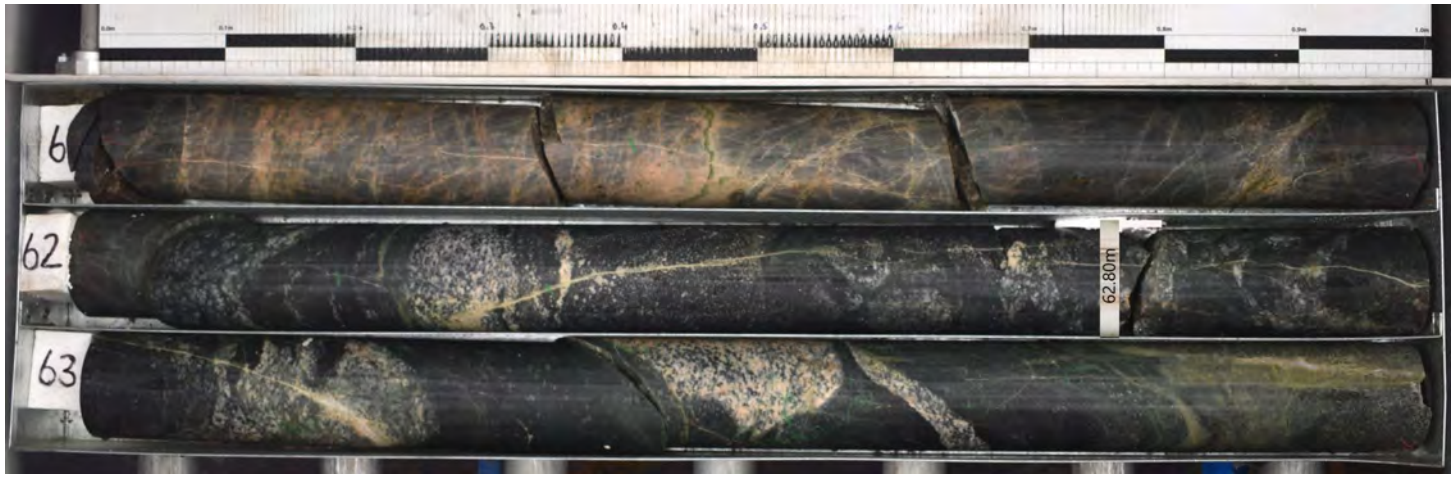
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 9/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:20 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 58.00 - 61.00 m

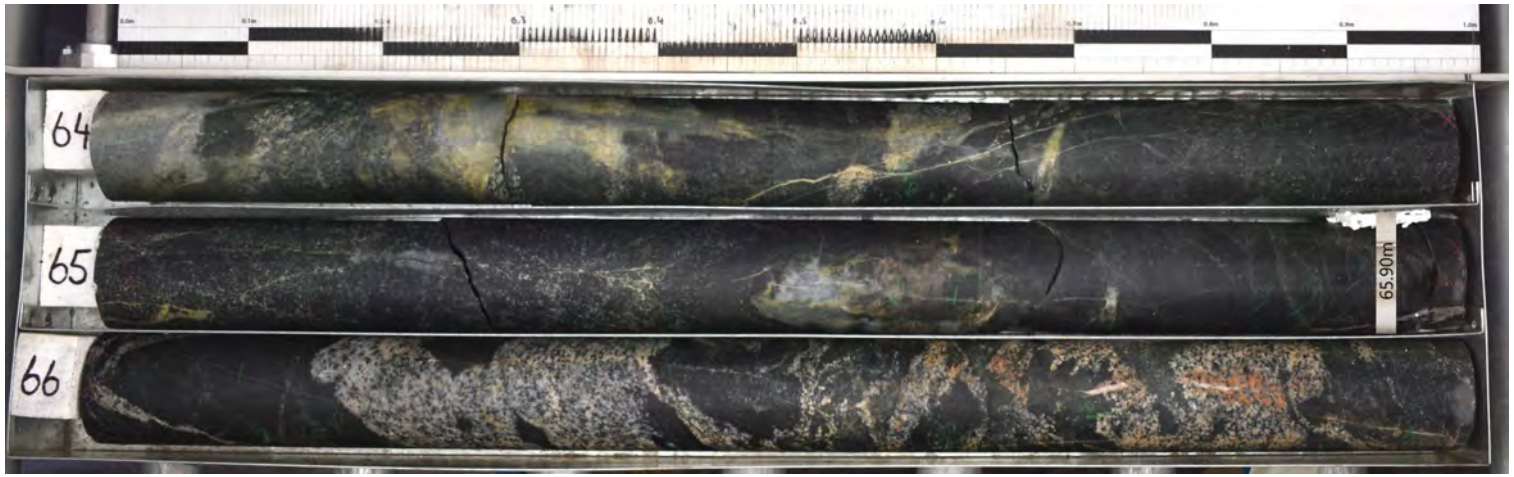


PointID : BHUA-05 Depth Range: 61.00 - 64.00 m

wsp	TITLE Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN RC / DATE 29/11/2024 CHECKED GEM / DATE 4/12/2024 SCALE Not To Scale / A4 PROJECT No PS138693 / FIGURE No 10/119	

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:20 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 64.00 - 67.00 m

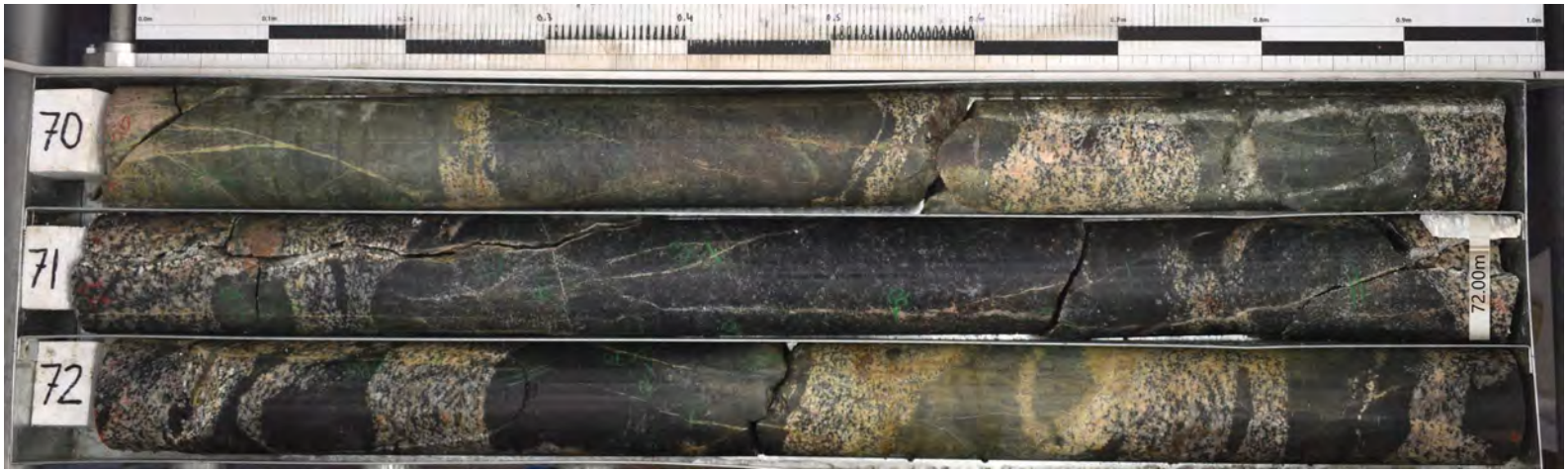


PointID : BHUA-05 Depth Range: 67.00 - 70.00 m

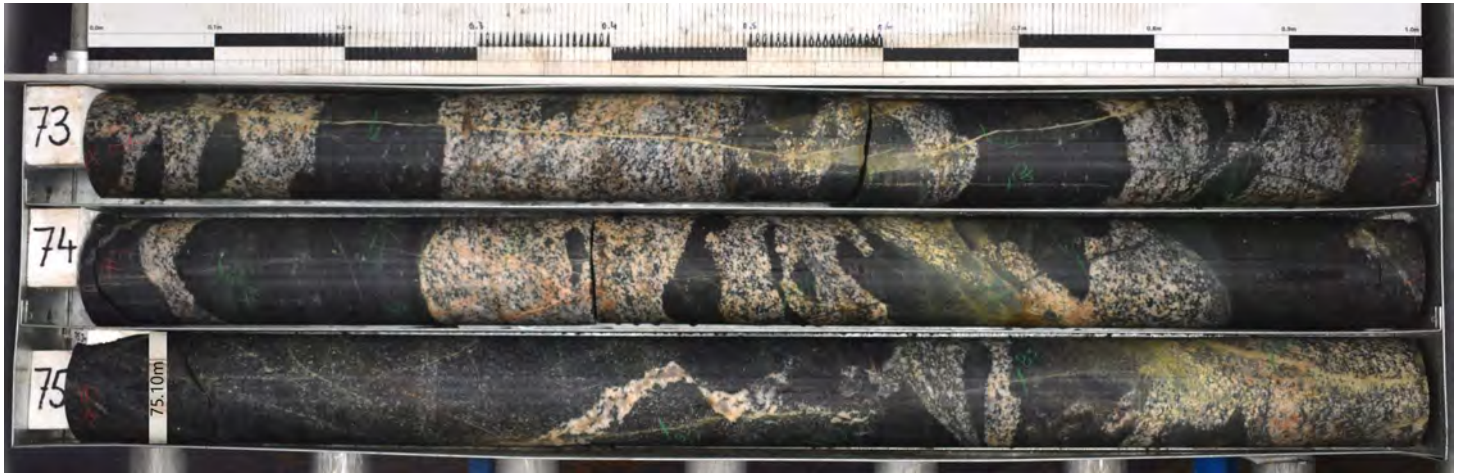
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 11/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:21 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 70.00 - 73.00 m

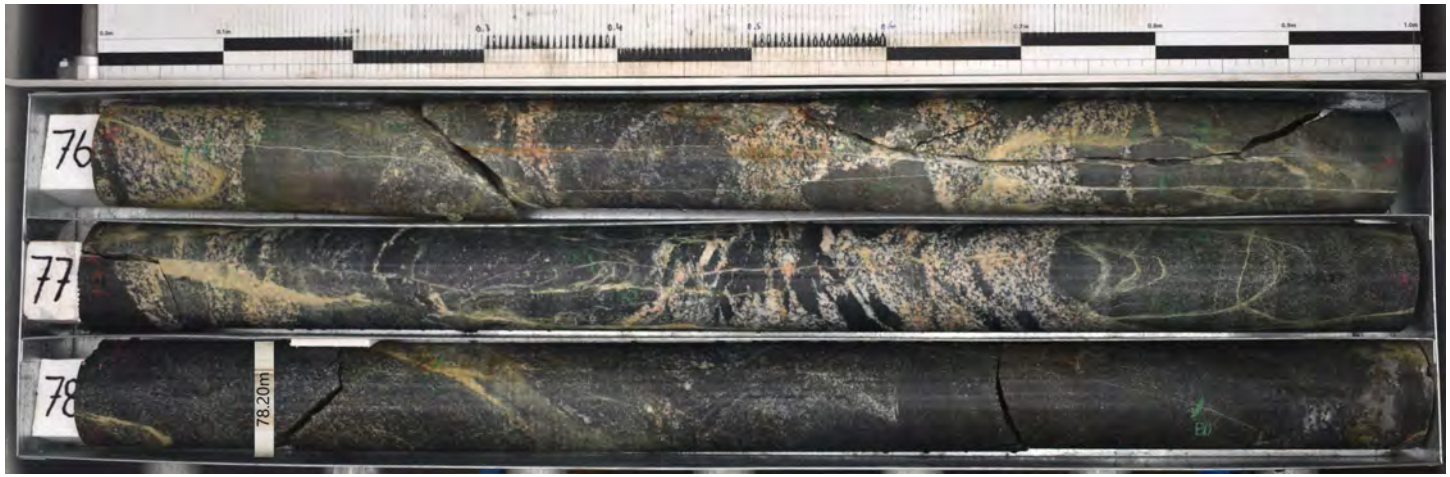


PointID : BHUA-05 Depth Range: 73.00 - 76.00 m

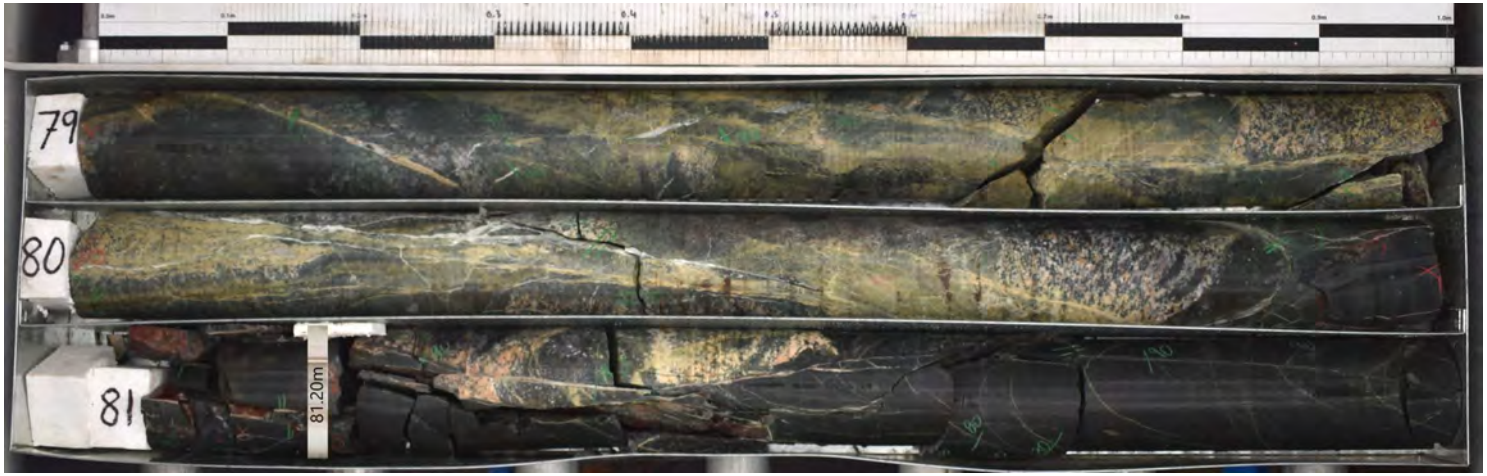
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 12/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:21 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 76.00 - 79.00 m

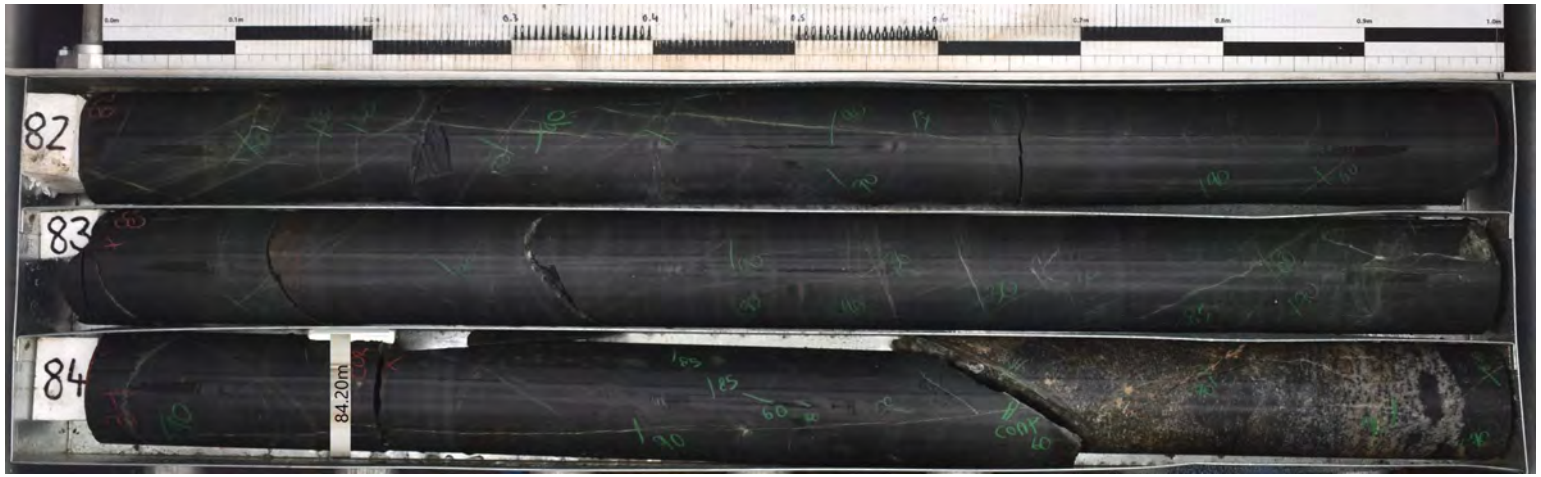


PointID : BHUA-05 Depth Range: 79.00 - 82.00 m

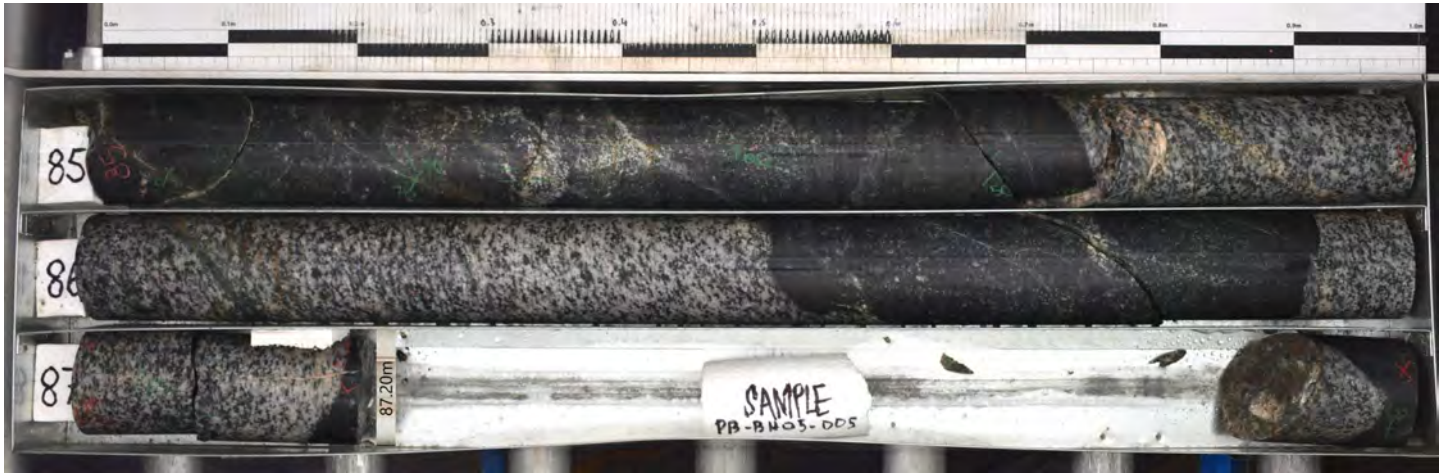
wsp	TITLE Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN RC	DATE 29/11/2024
		CHECKED GEM	DATE 4/12/2024
		SCALE Not To Scale	A4
		PROJECT No PS138693	FIGURE No 13/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:21 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 82.00 - 85.00 m

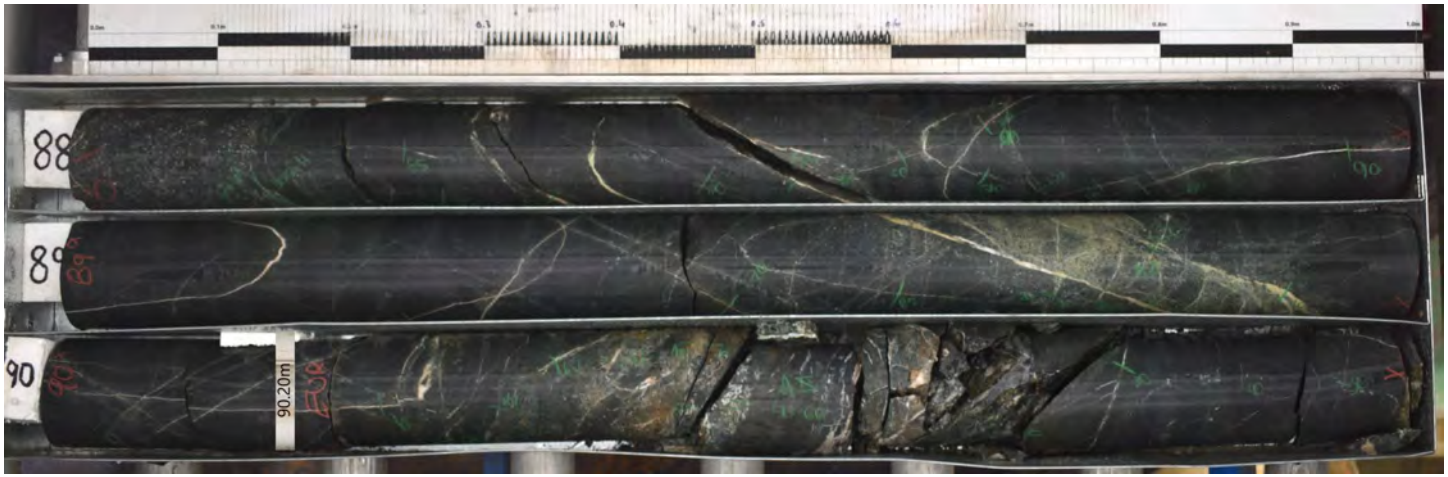


PointID : BHUA-05 Depth Range: 85.00 - 88.00 m

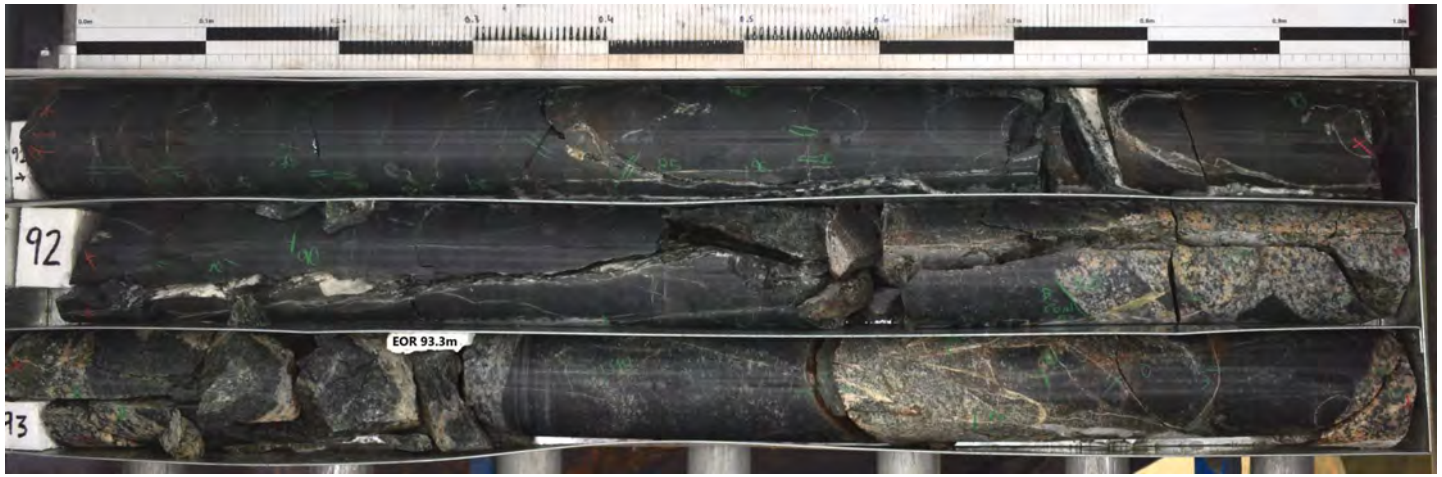
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 14/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:21 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 88.00 - 91.00 m

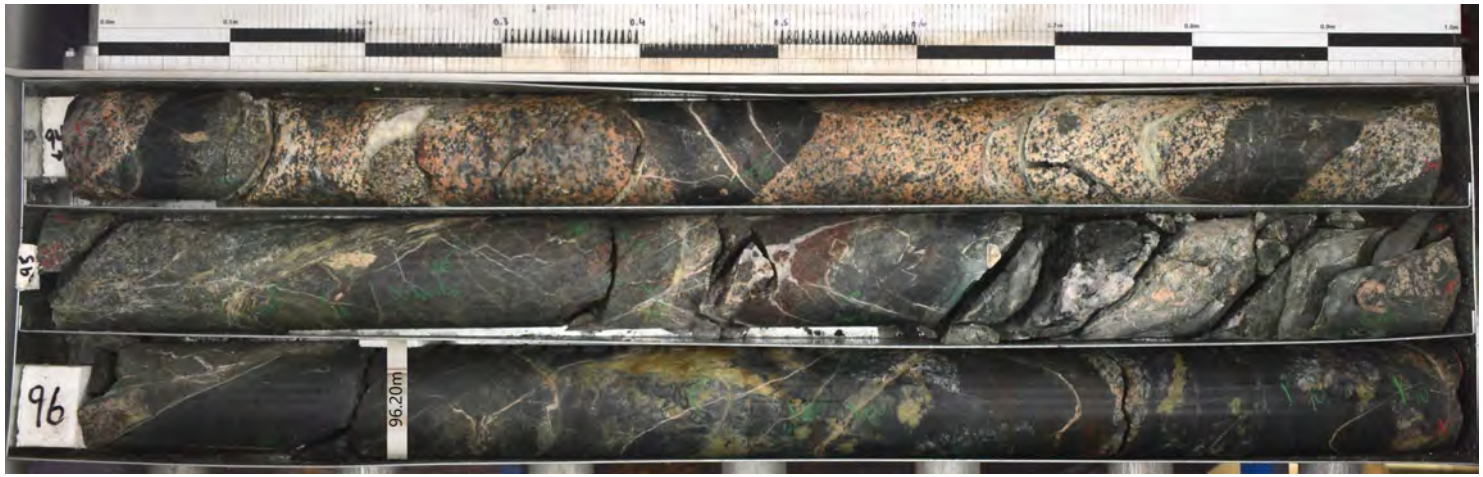


PointID : BHUA-05 Depth Range: 91.00 - 94.00 m

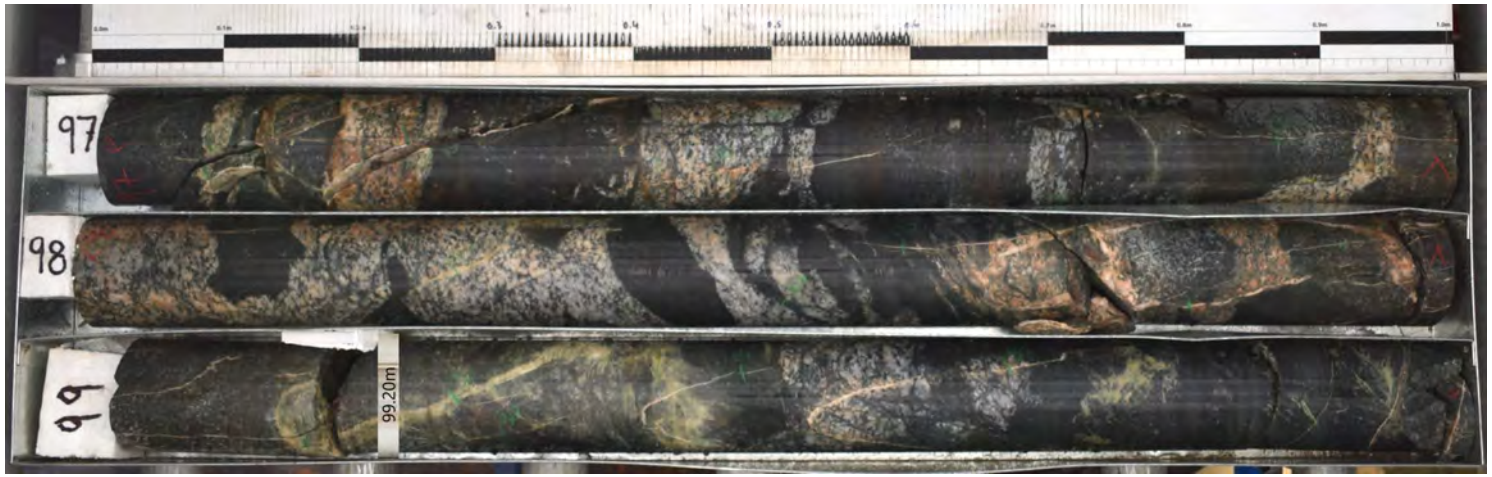
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 15/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:21 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 94.00 - 97.00 m



PointID : BHUA-05 Depth Range: 97.00 - 100.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 16/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:21 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 100.00 - 103.00 m



PointID : BHUA-05 Depth Range: 103.00 - 106.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 17/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:21 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 106.00 - 109.00 m

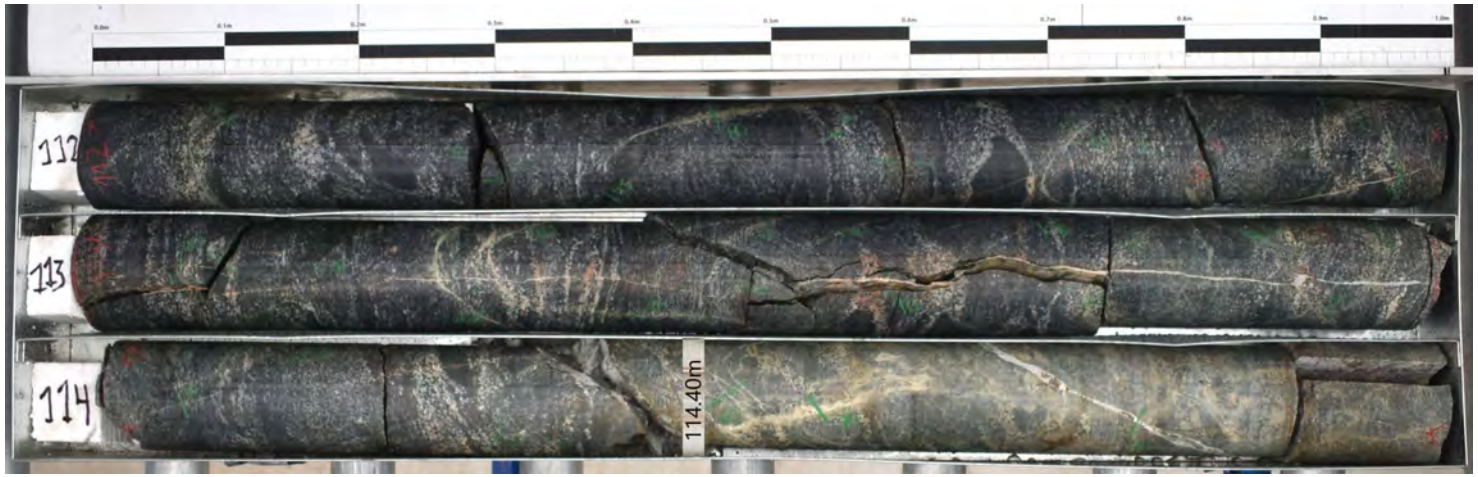


PointID : BHUA-05 Depth Range: 109.00 - 112.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 18/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:21 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 112.00 - 115.00 m



PointID : BHUA-05 Depth Range: 115.00 - 118.00 m

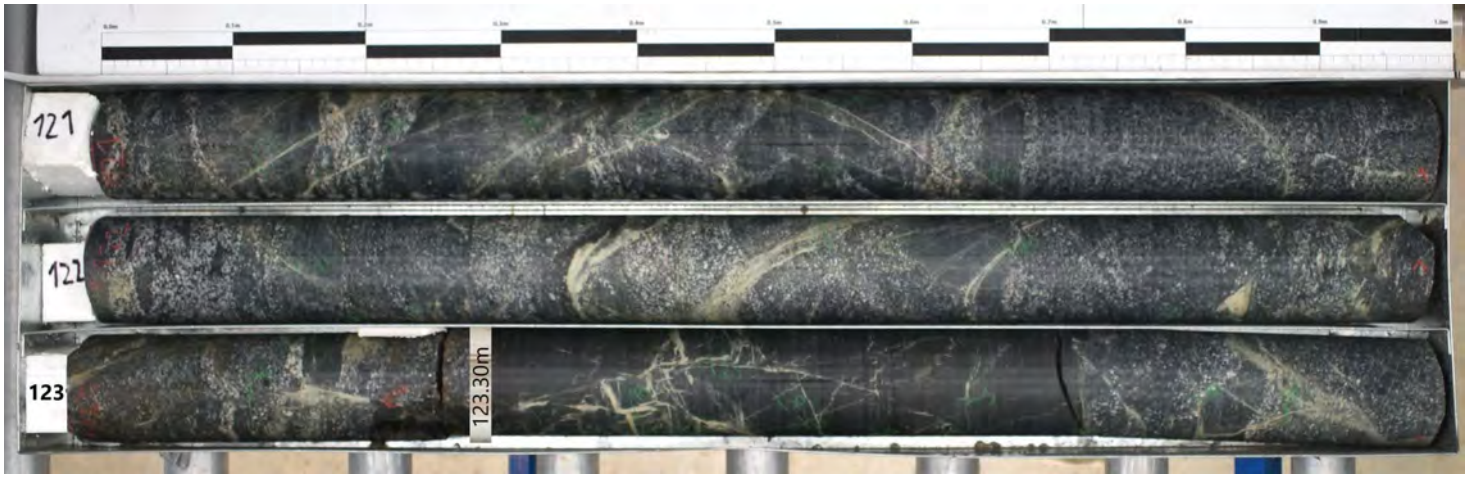
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 19/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:21 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 118.00 - 121.00 m



PointID : BHUA-05 Depth Range: 121.00 - 124.00 m

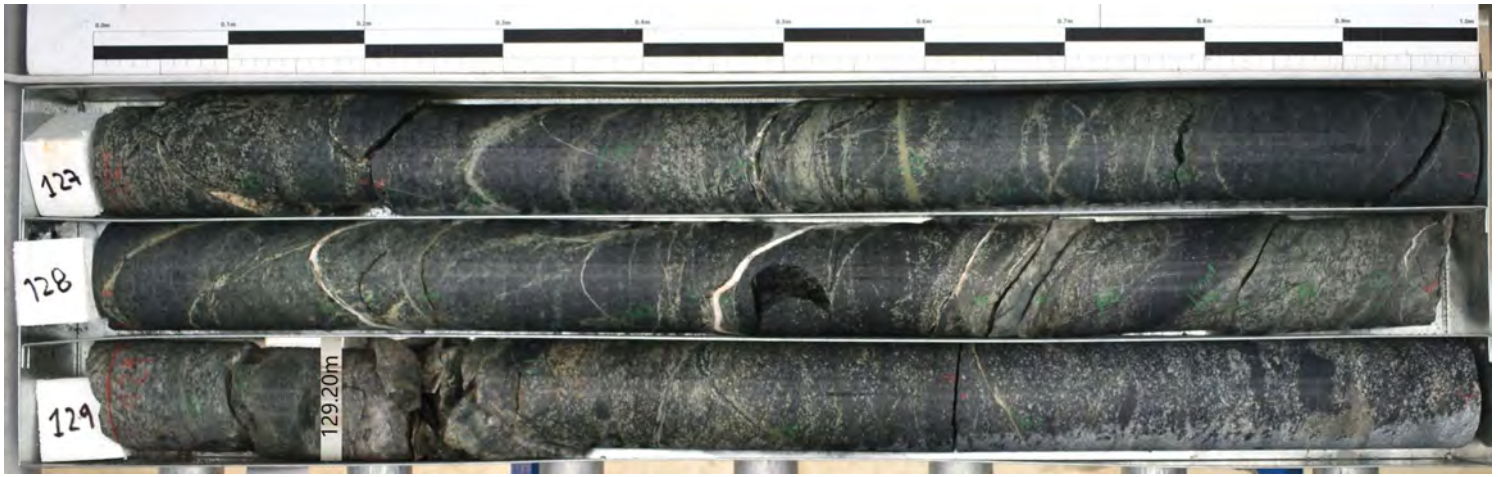
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 20/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:23 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 124.00 - 127.00 m



PointID : BHUA-05 Depth Range: 127.00 - 130.00 m

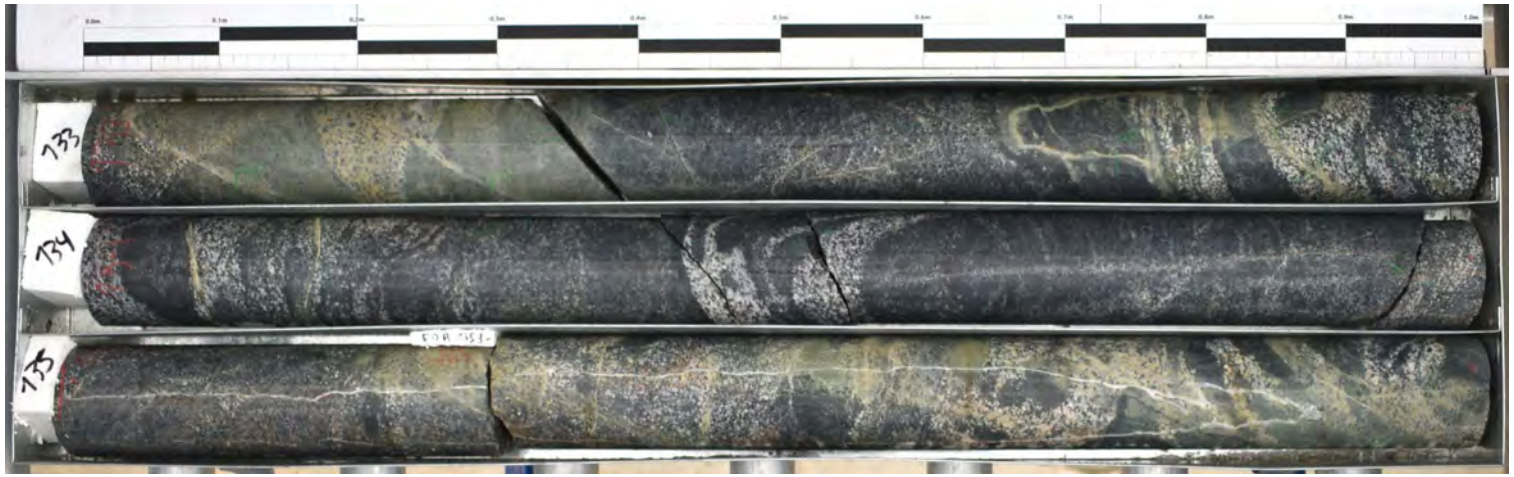
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 21/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:23 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 130.00 - 133.00 m

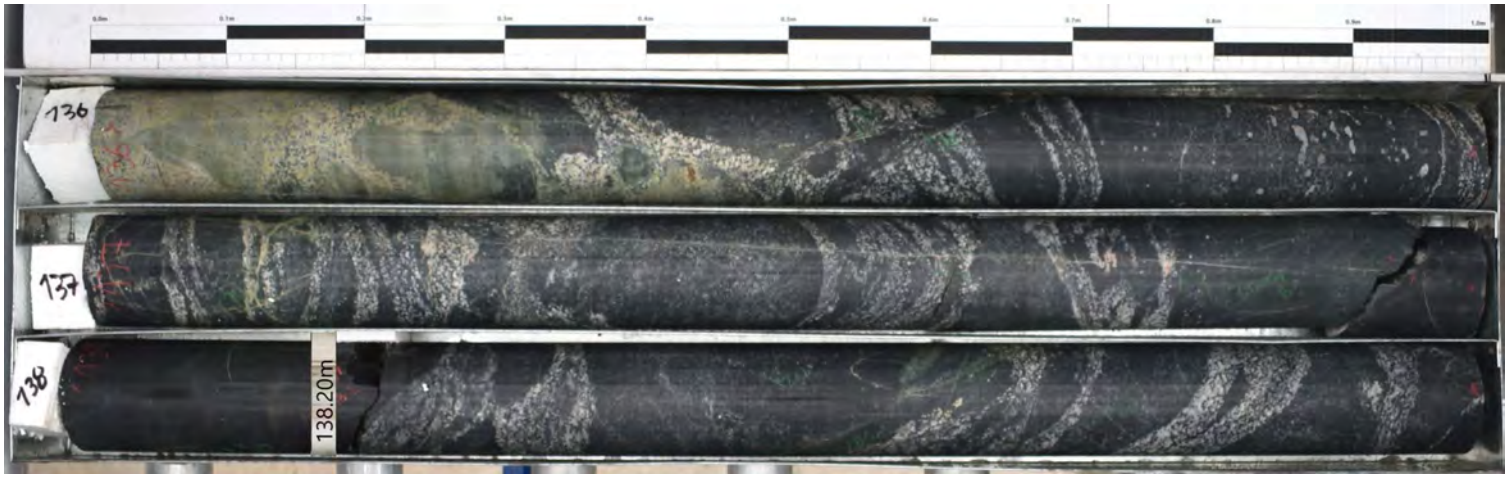


PointID : BHUA-05 Depth Range: 133.00 - 136.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 22/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:23 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 136.00 - 139.00 m



PointID : BHUA-05 Depth Range: 139.00 - 142.00 m

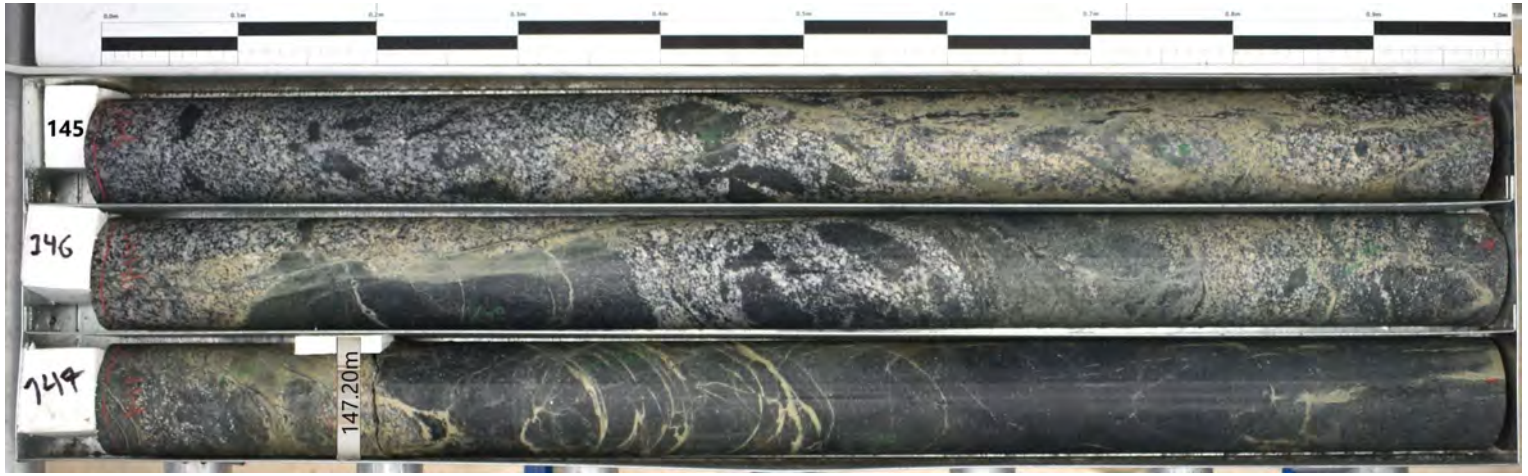
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 23/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:23 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 142.00 - 145.00 m

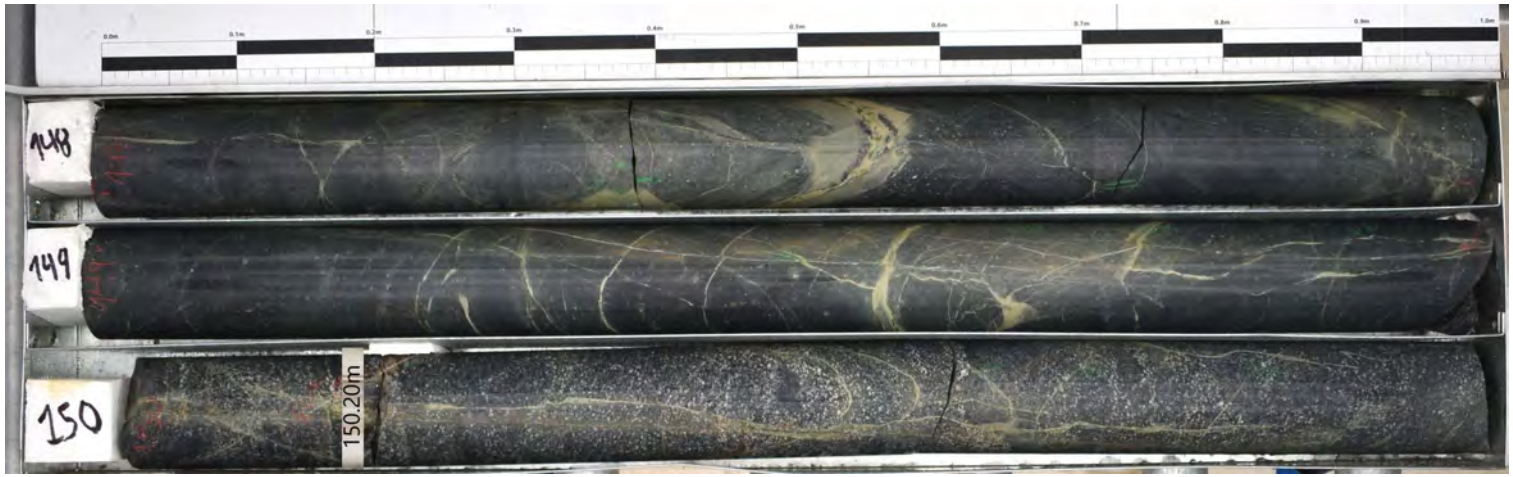


PointID : BHUA-05 Depth Range: 145.00 - 148.00 m

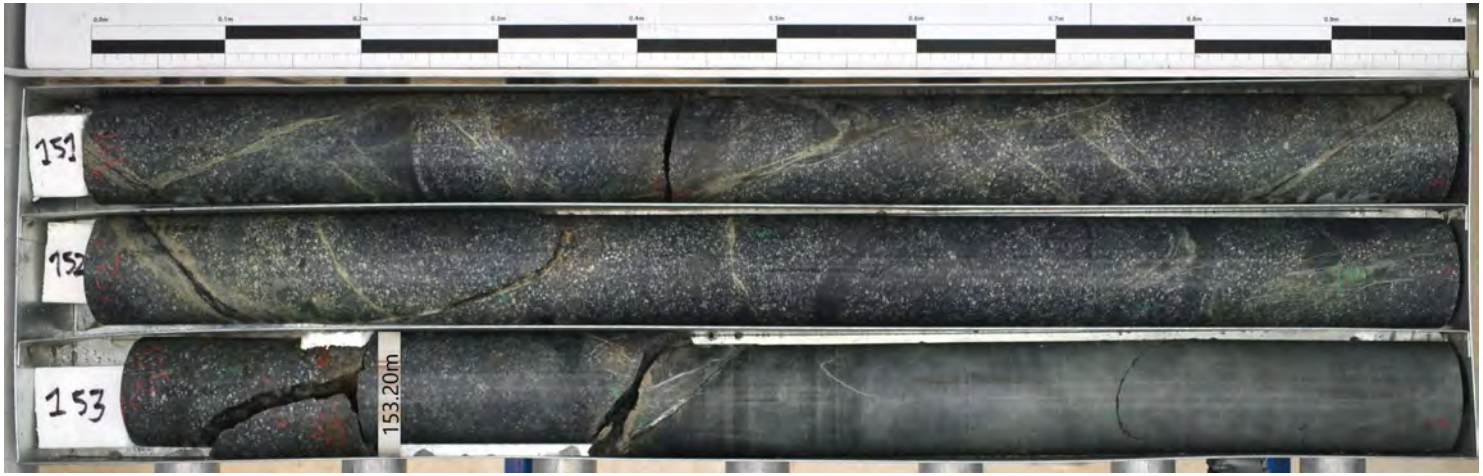
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 24/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:23 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 148.00 - 151.00 m



PointID : BHUA-05 Depth Range: 151.00 - 154.00 m

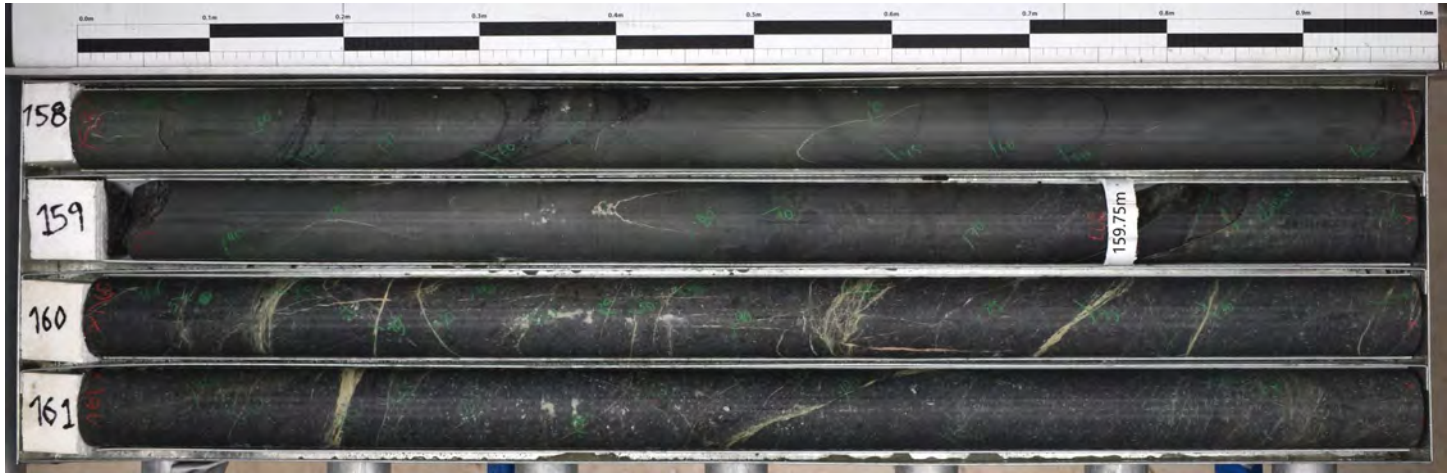
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 25/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:24 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 154.00 - 158.00 m

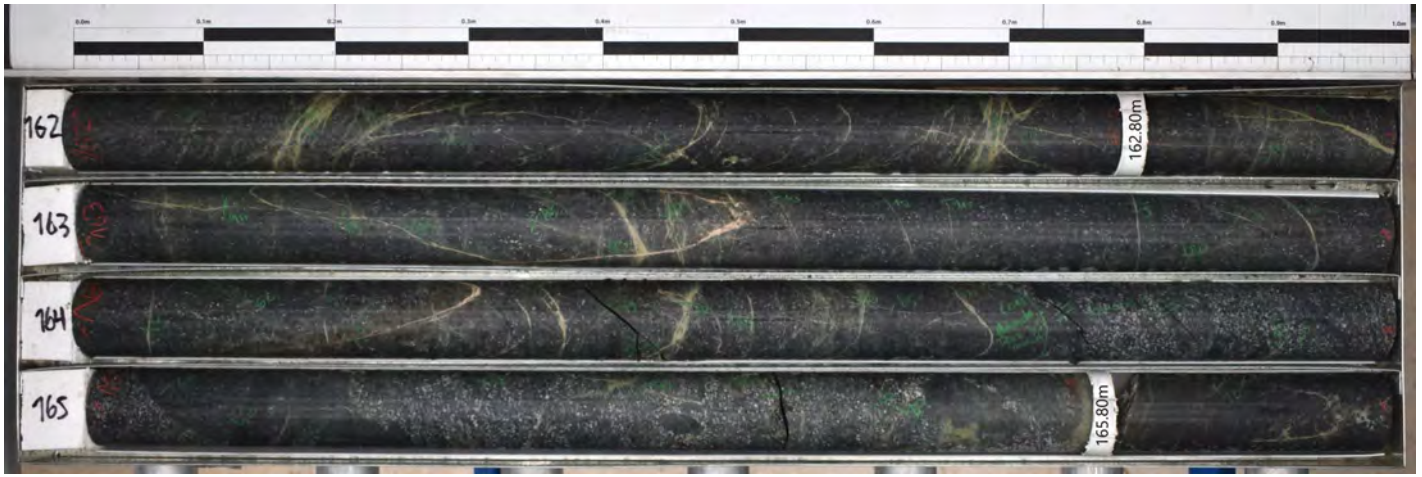


PointID : BHUA-05 Depth Range: 158.00 - 162.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 26/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:24 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 162.00 - 166.00 m

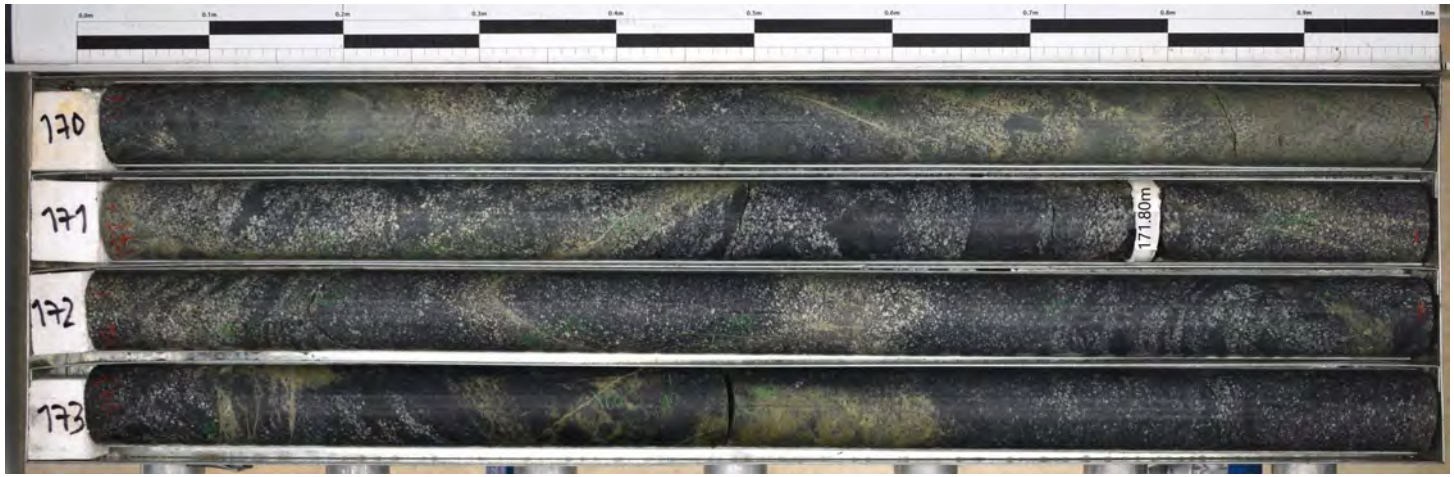


PointID : BHUA-05 Depth Range: 166.00 - 170.00 m

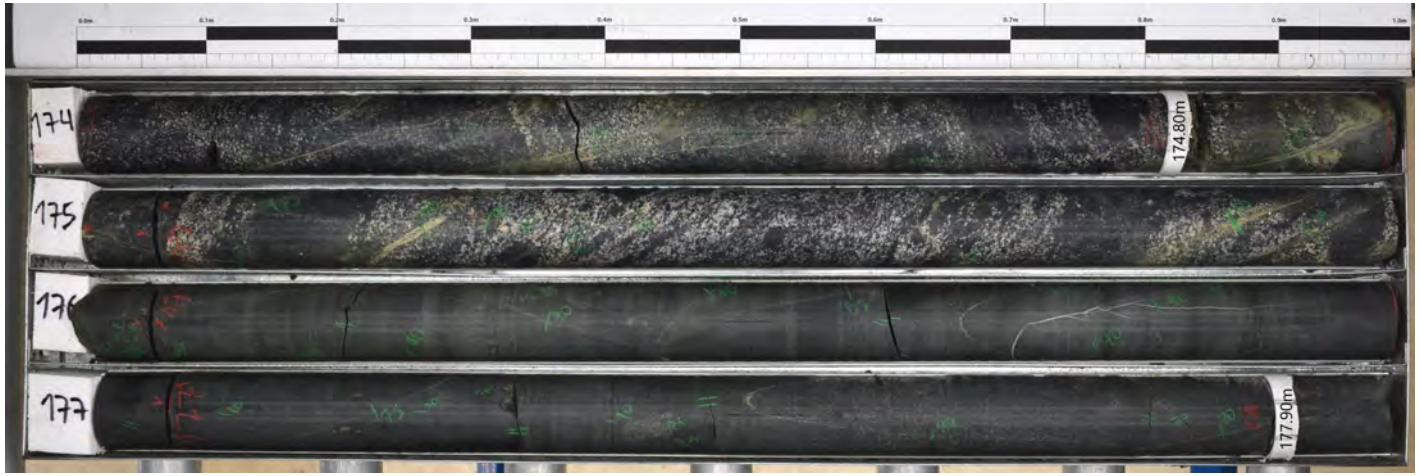
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 27/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:24 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 170.00 - 174.00 m



PointID : BHUA-05 Depth Range: 174.00 - 178.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 28/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:24 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 178.00 - 182.00 m

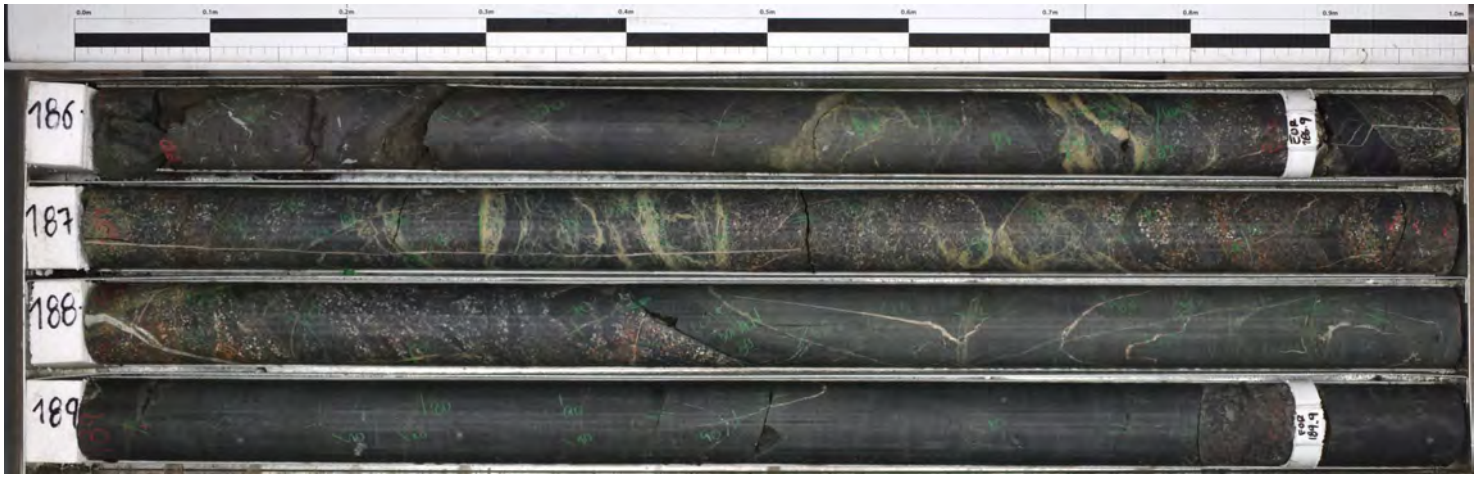


PointID : BHUA-05 Depth Range: 182.00 - 186.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 29/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:24 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 186.00 - 190.00 m



PointID : BHUA-05 Depth Range: 190.00 - 194.00 m

wsp

TITLE

Queensland Hydro
Netherdale/Dalrymple Heights
Pioneer-Burdekin PHES
Core photo - BHUA-05

DRAWN: RC	DATE: 29/11/2024
CHECKED: GEM	DATE: 4/12/2024
SCALE: Not To Scale	A4
PROJECT No: PS138693	FIGURE No: 30/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:24 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 194.00 - 198.00 m



PointID : BHUA-05 Depth Range: 198.00 - 202.00 m

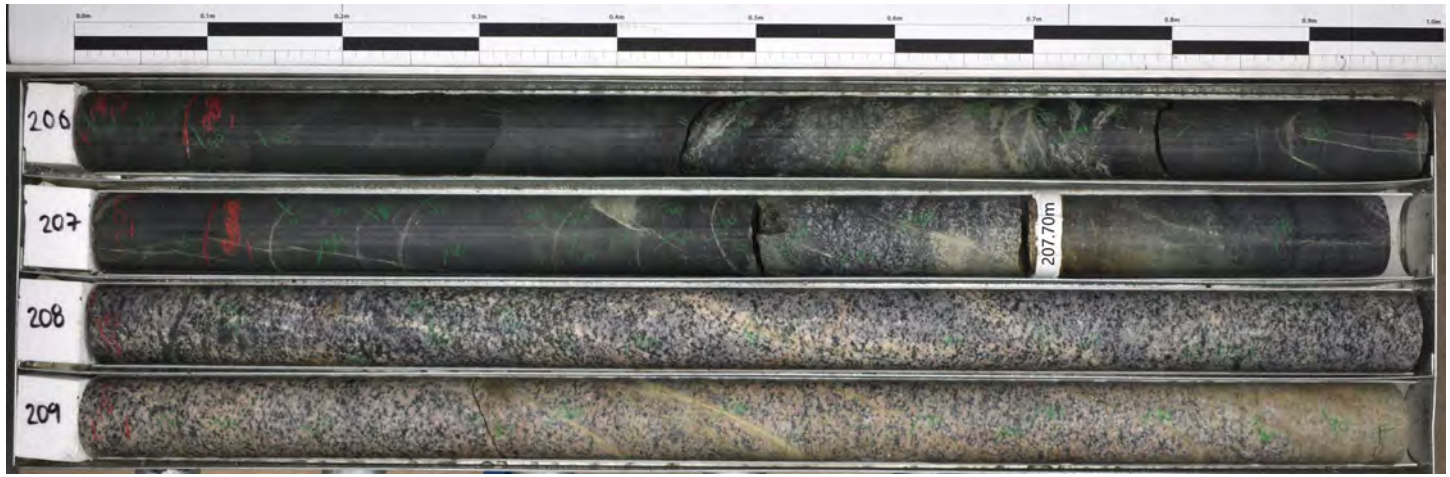
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 31/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:24 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 202.00 - 206.00 m

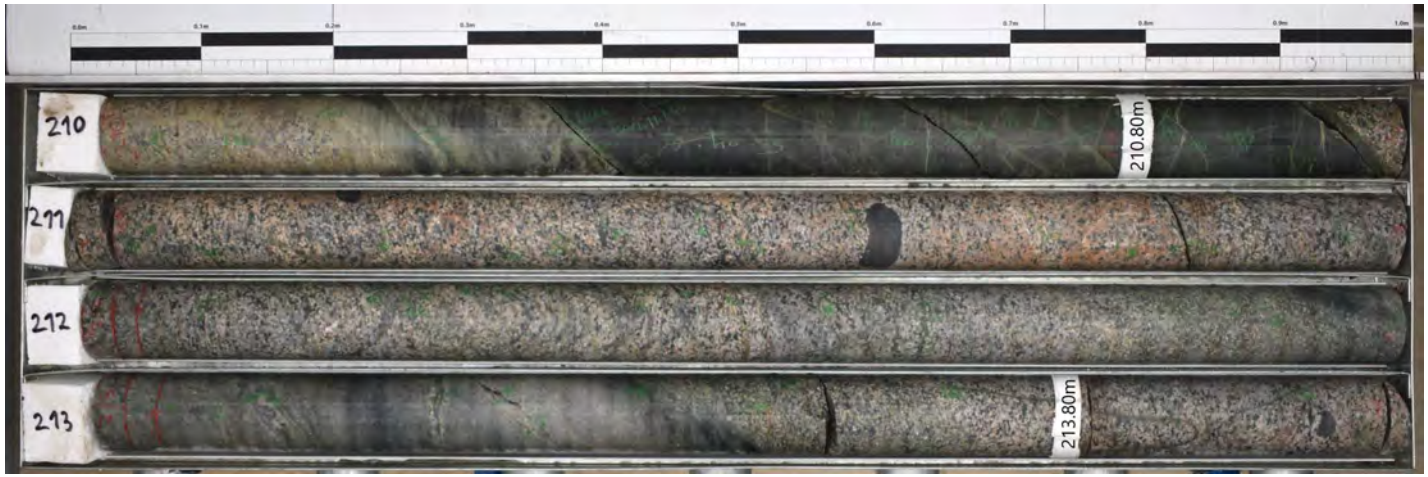


PointID : BHUA-05 Depth Range: 206.00 - 210.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 32/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:24 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 210.00 - 214.00 m

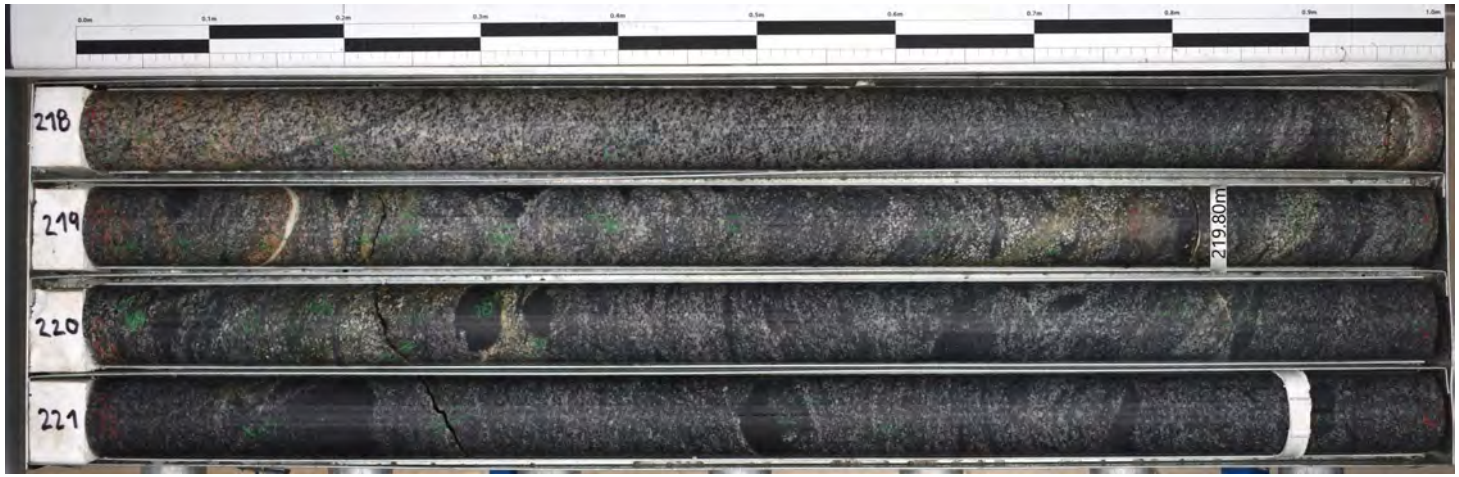


PointID : BHUA-05 Depth Range: 214.00 - 218.00 m

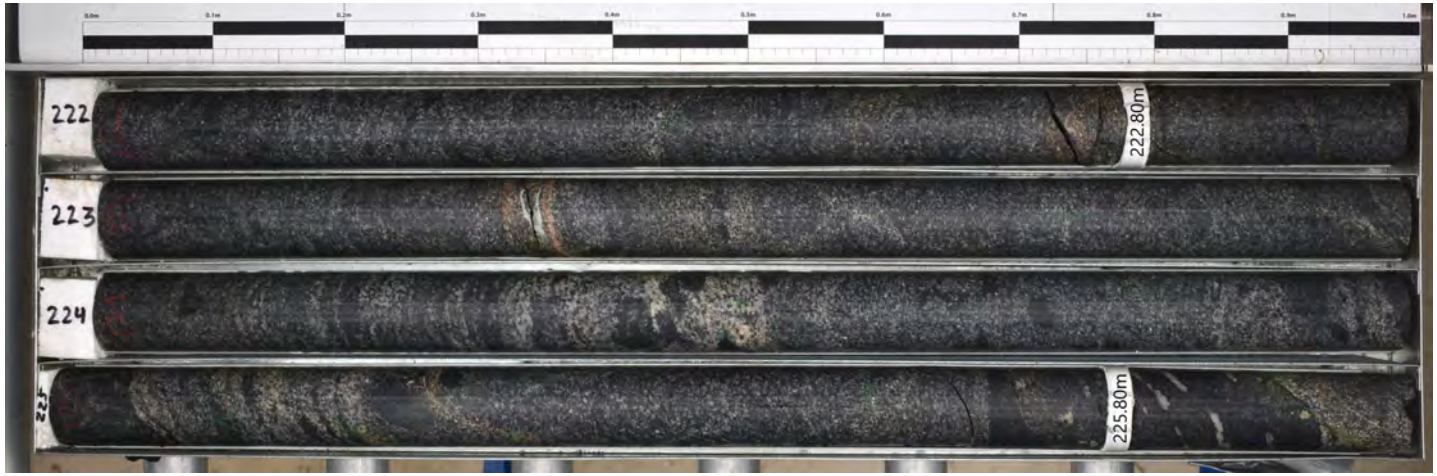
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 33/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:24 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 218.00 - 222.00 m

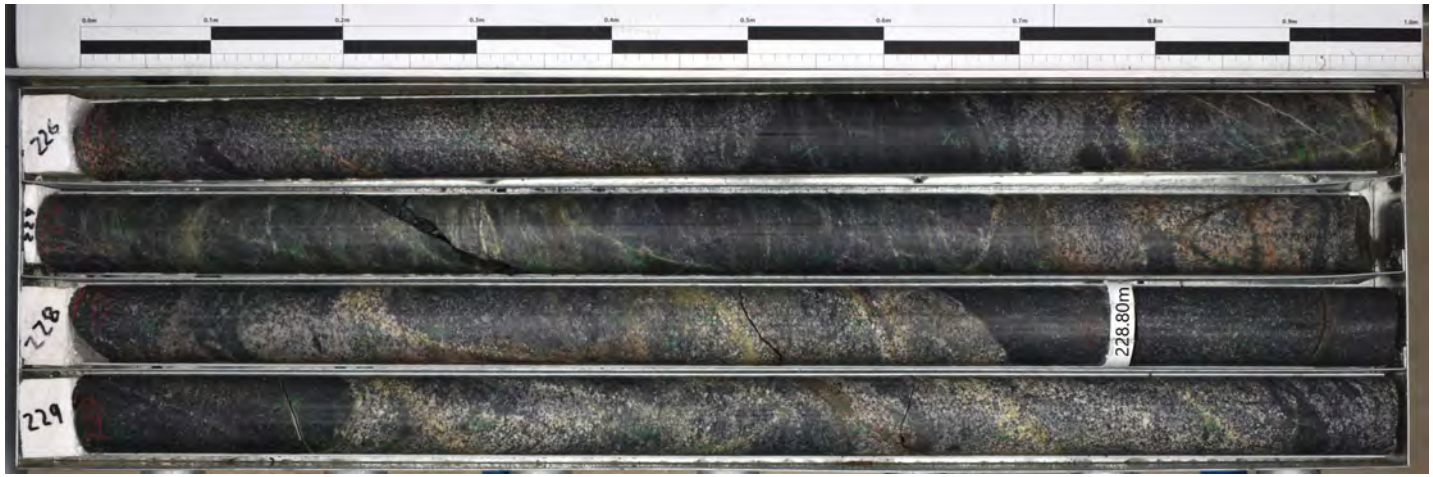


PointID : BHUA-05 Depth Range: 222.00 - 226.00 m

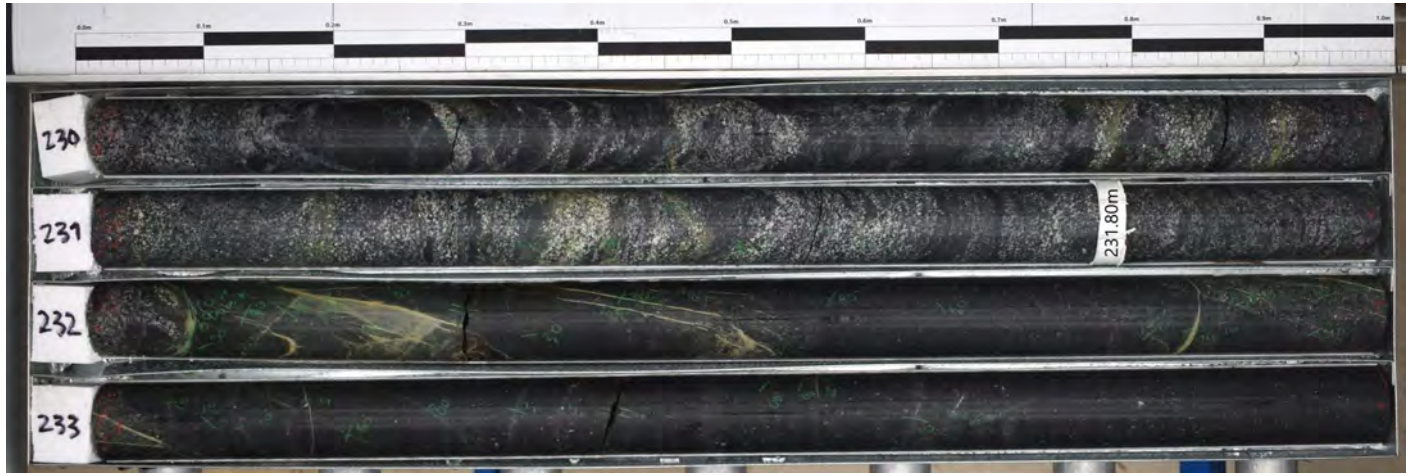
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 34/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:25 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 226.00 - 230.00 m

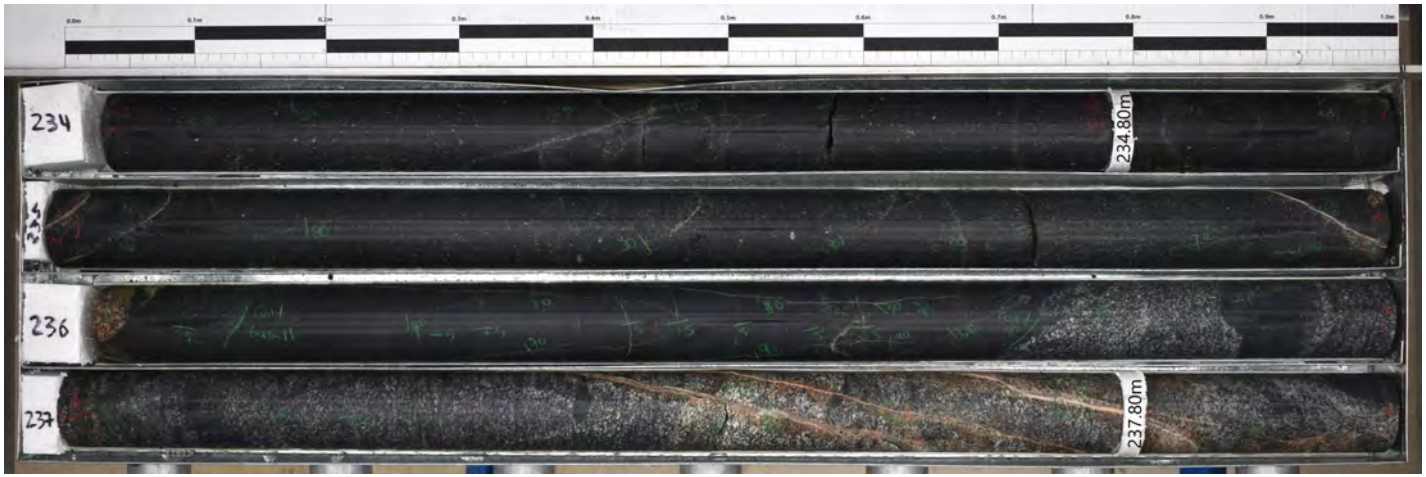


PointID : BHUA-05 Depth Range: 230.00 - 234.00 m

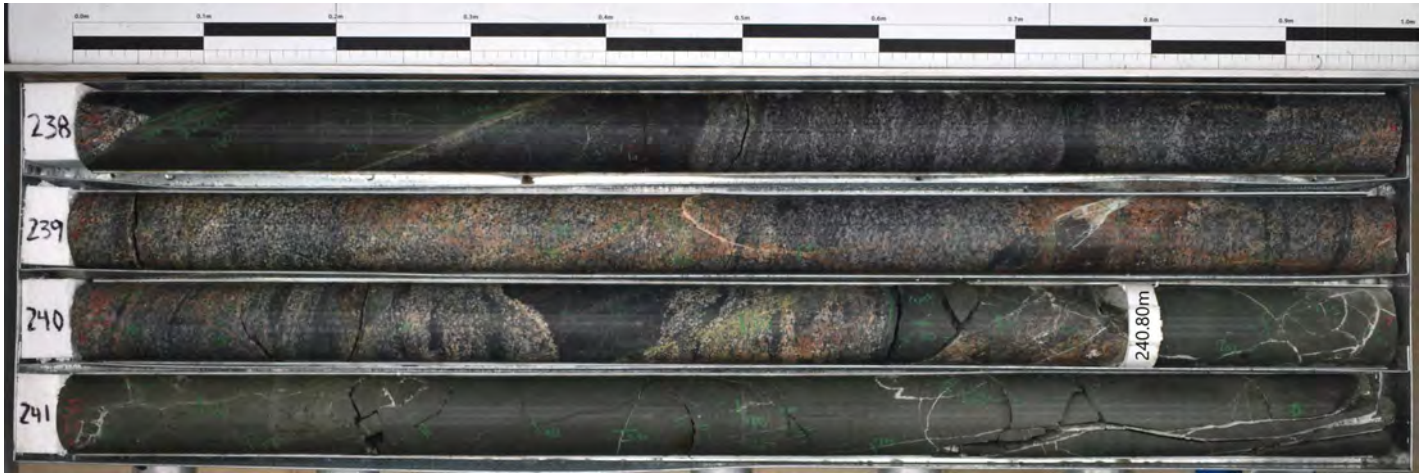
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 35/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:25 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 234.00 - 238.00 m

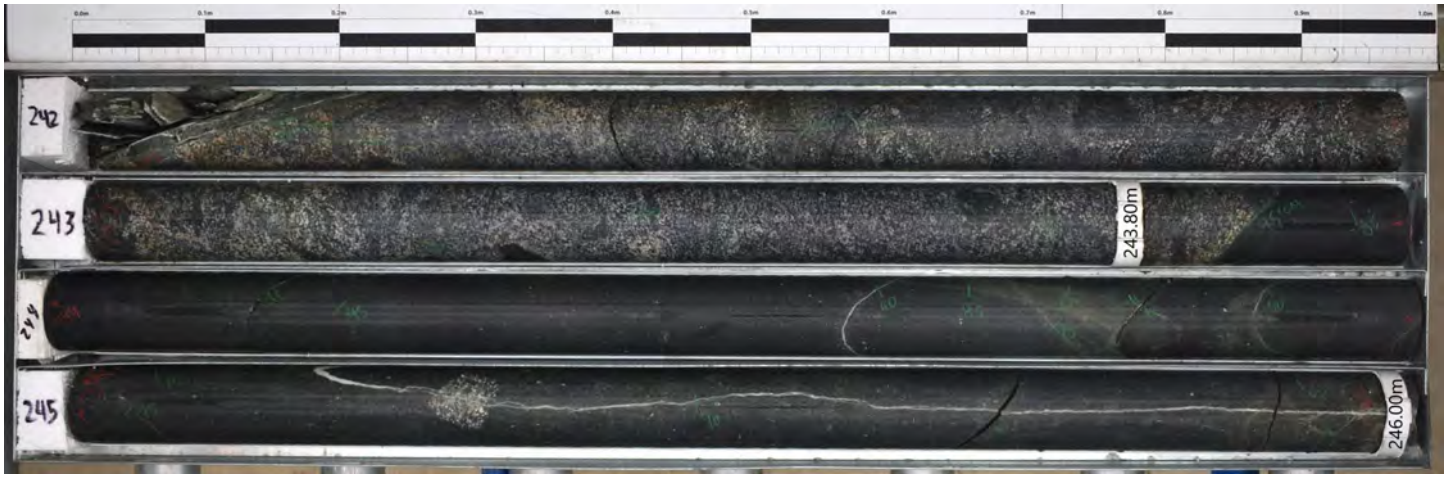


PointID : BHUA-05 Depth Range: 238.00 - 242.00 m

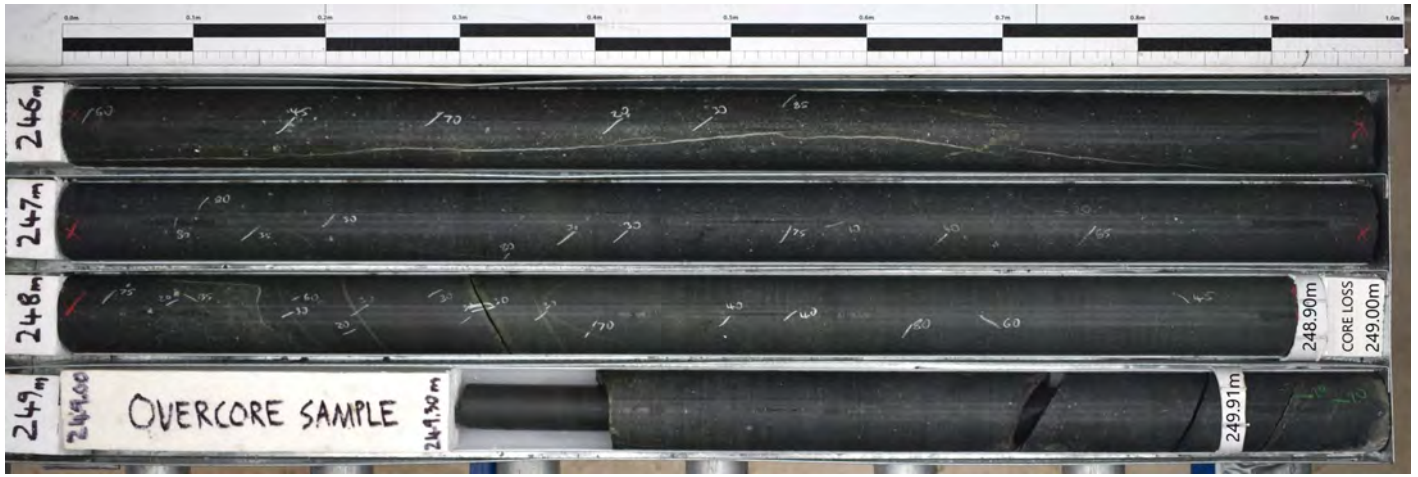
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 36/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:25 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 242.00 - 246.00 m



PointID : BHUA-05 Depth Range: 246.00 - 250.00 m

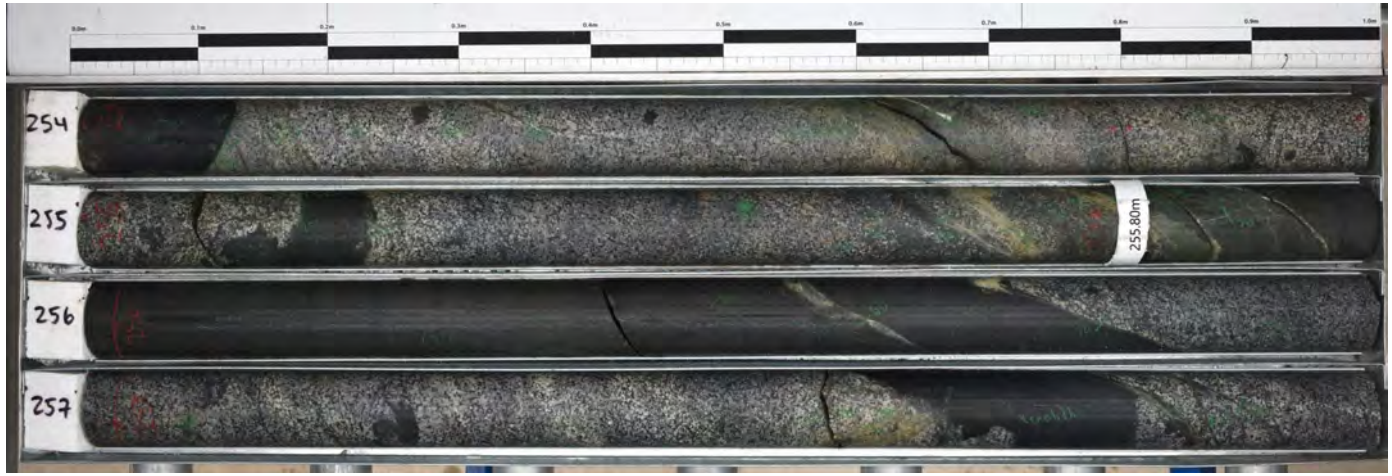
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 37/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:25 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 250.00 - 254.00 m

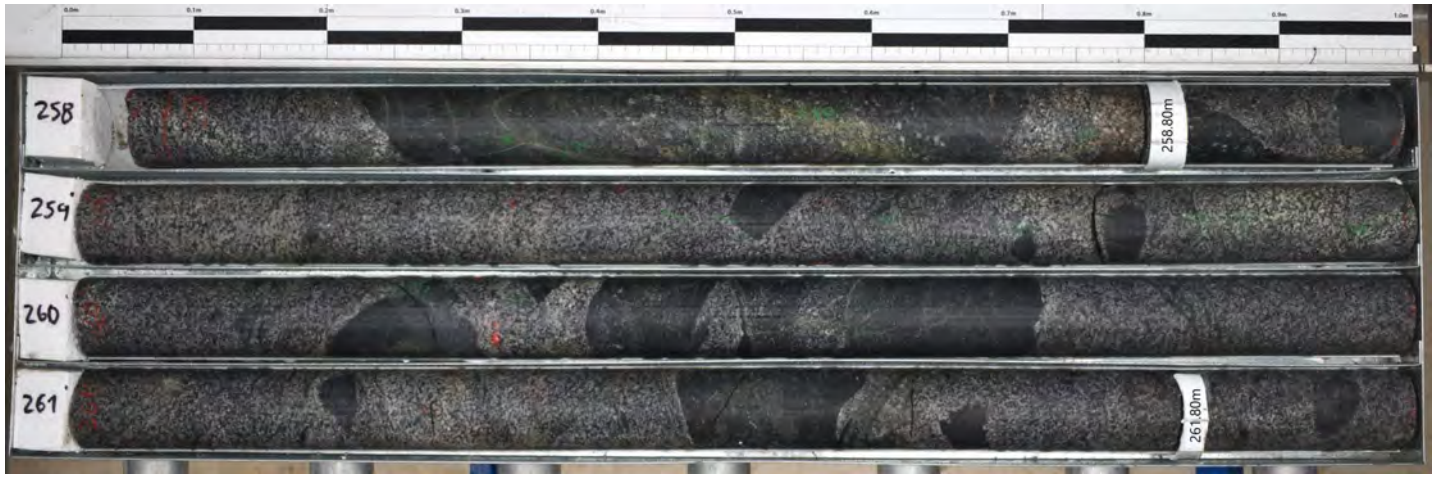


PointID : BHUA-05 Depth Range: 254.00 - 258.00 m

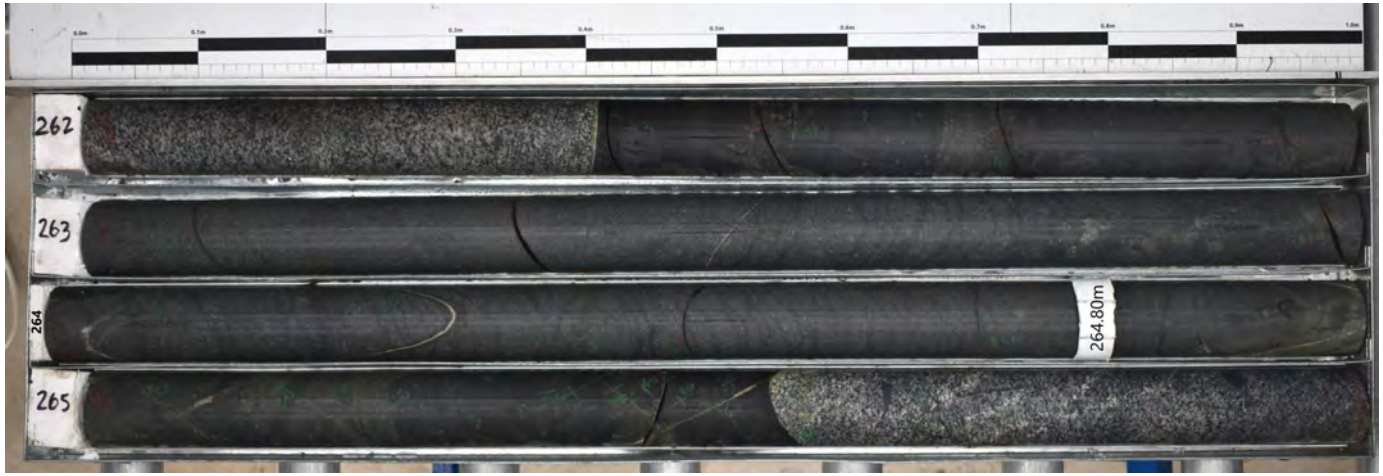
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 38/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:25 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 258.00 - 262.00 m

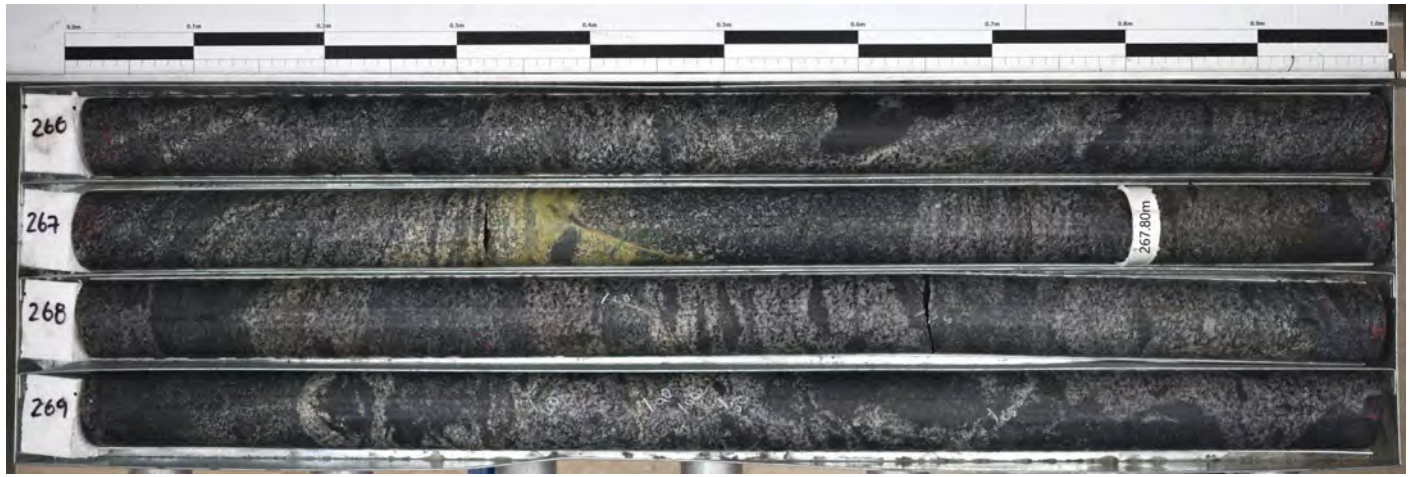


PointID : BHUA-05 Depth Range: 262.00 - 266.00 m

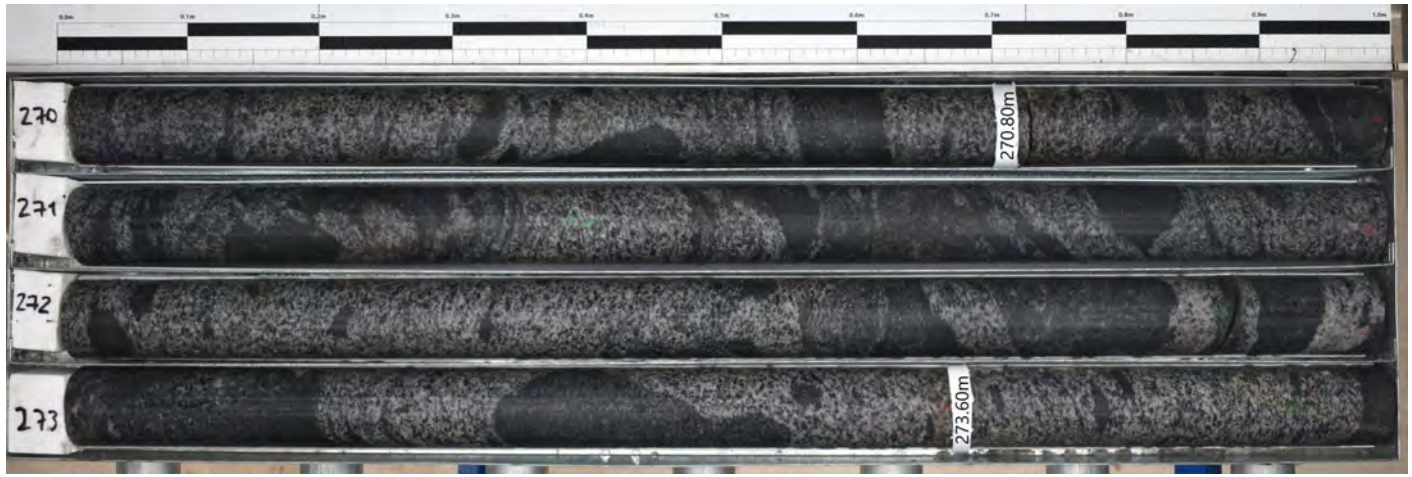
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 39/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:25 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 266.00 - 270.00 m

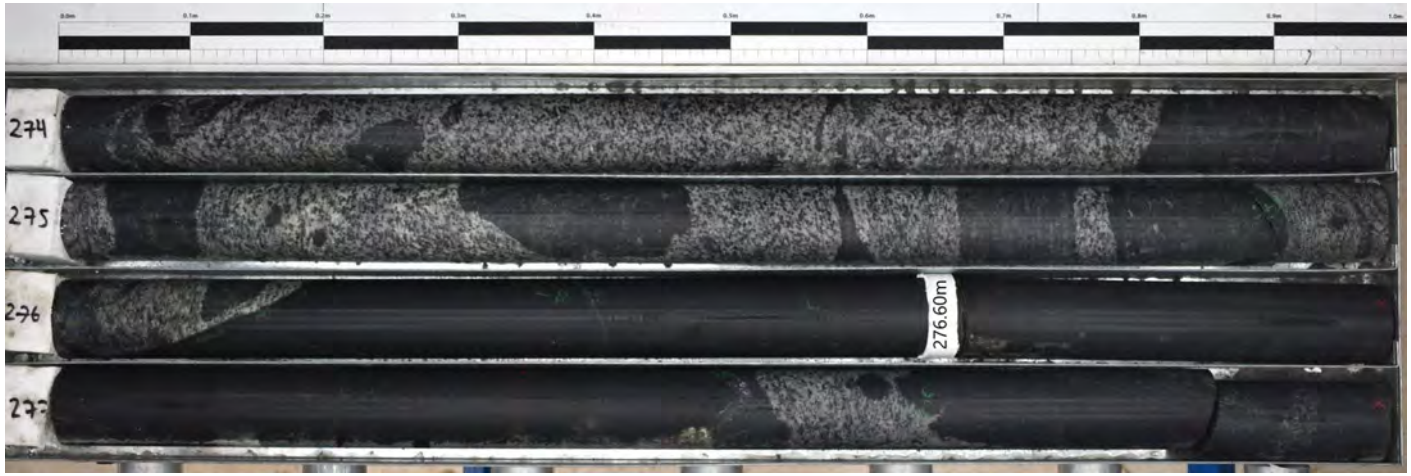


PointID : BHUA-05 Depth Range: 270.00 - 274.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 40/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:25 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 274.00 - 278.00 m

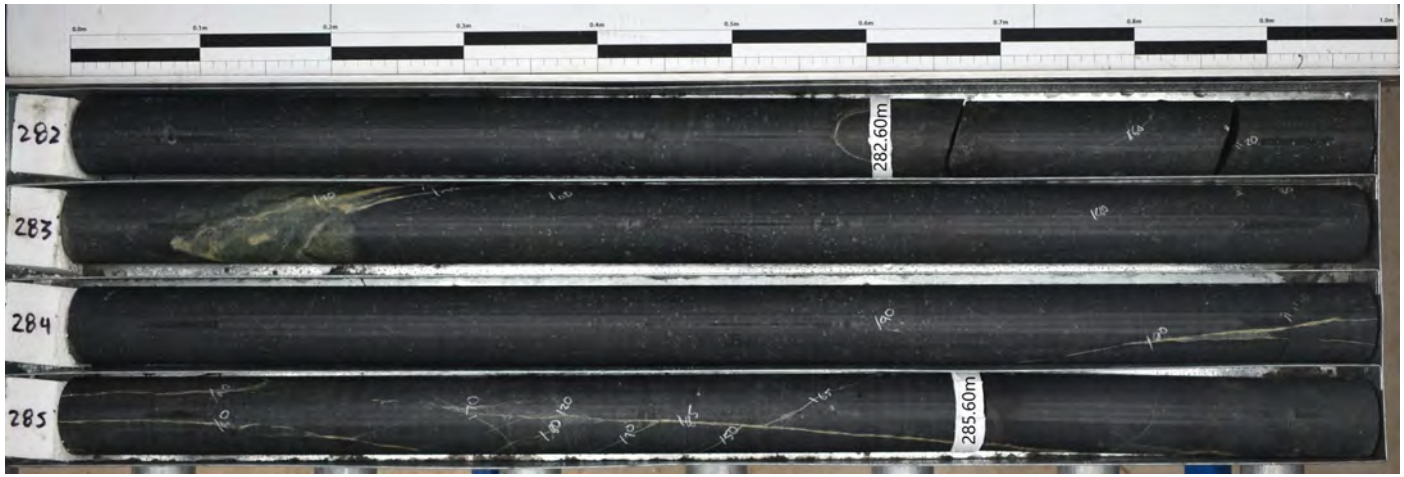


PointID : BHUA-05 Depth Range: 278.00 - 282.00 m

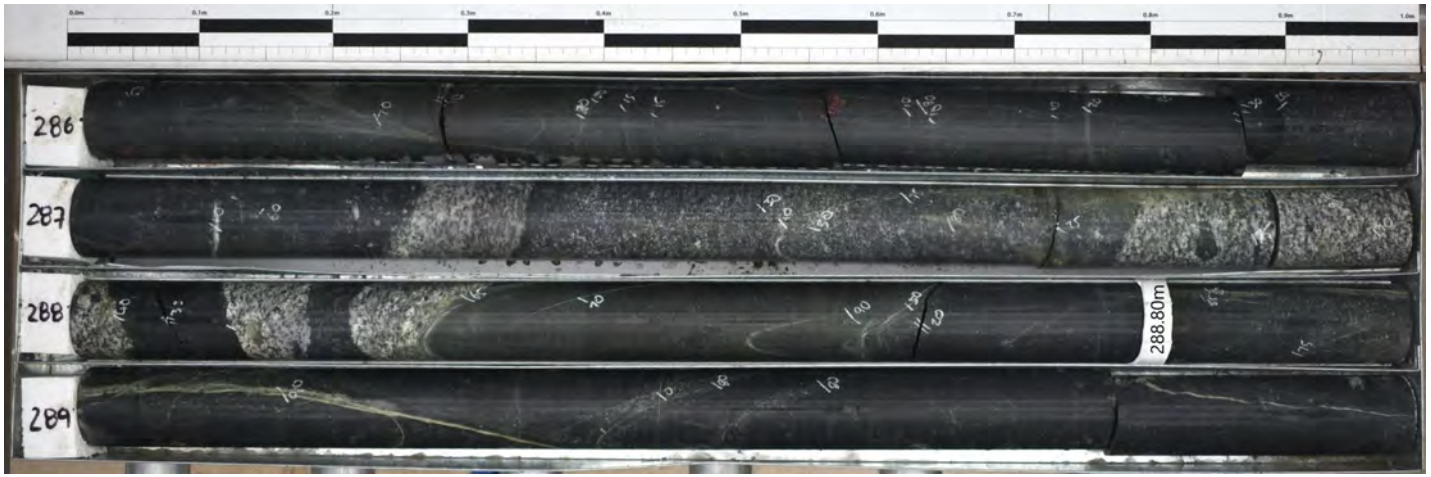
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 41/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:25 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 282.00 - 286.00 m

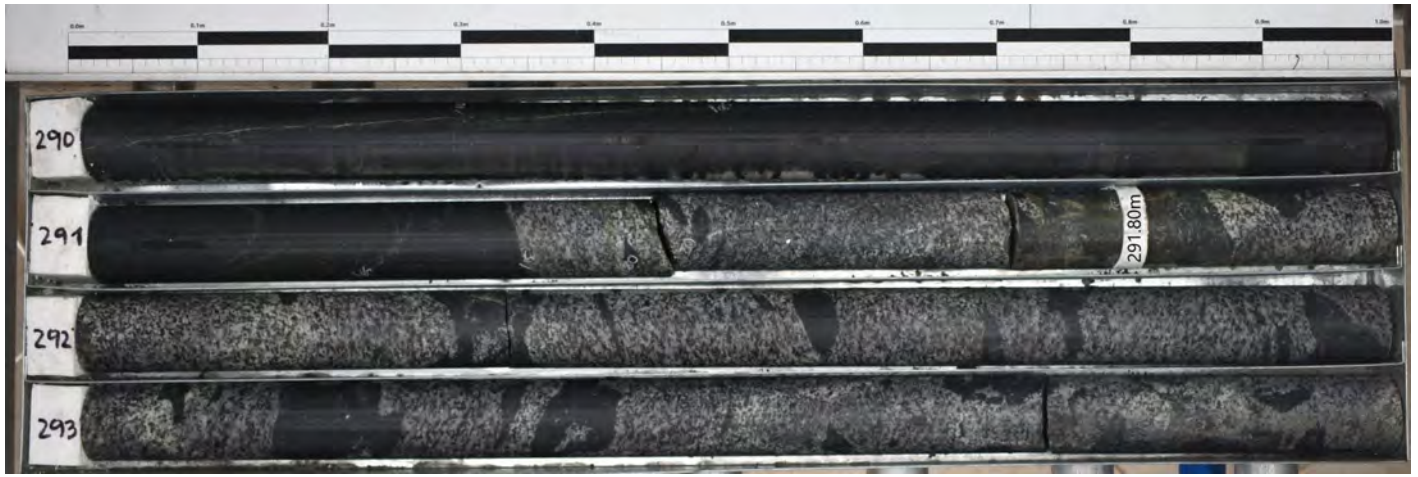


PointID : BHUA-05 Depth Range: 286.00 - 290.00 m

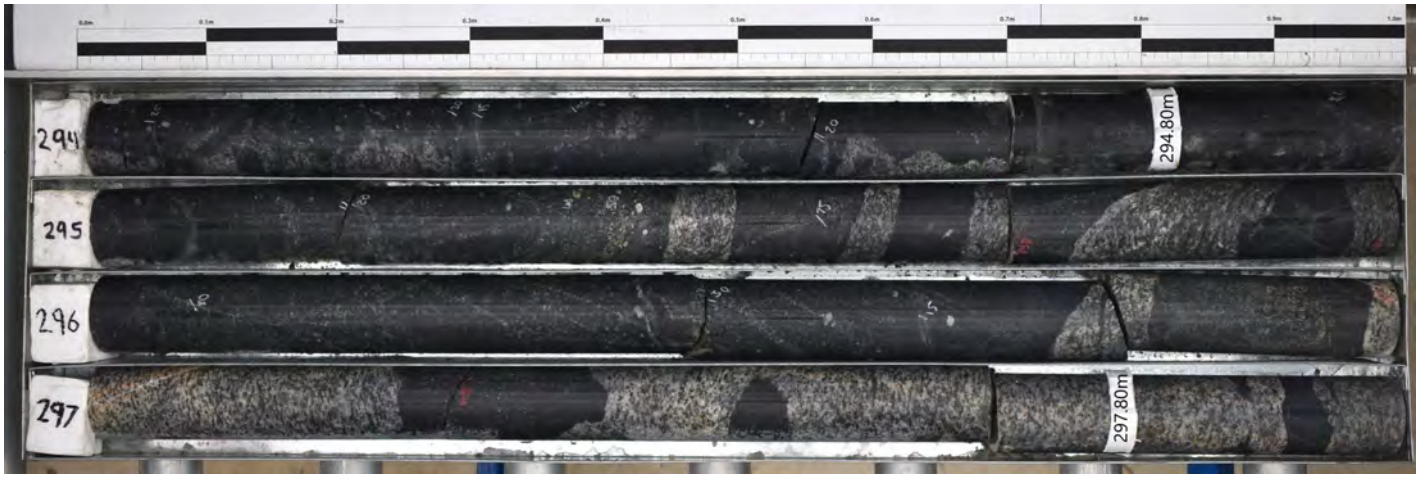
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 42/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:26 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 290.00 - 294.00 m

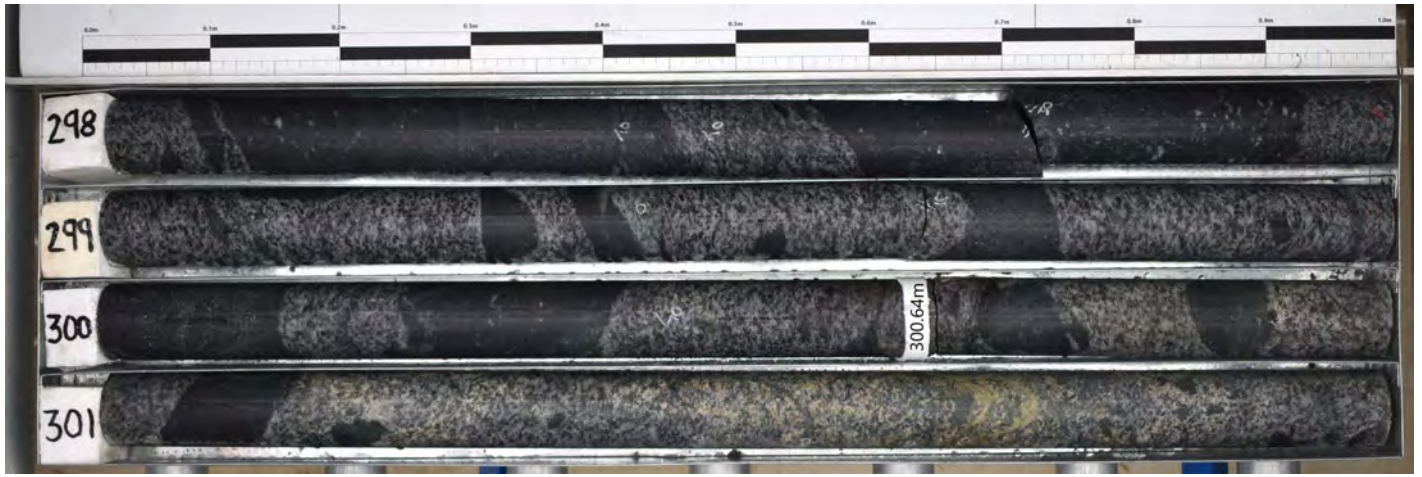


PointID : BHUA-05 Depth Range: 294.00 - 298.00 m

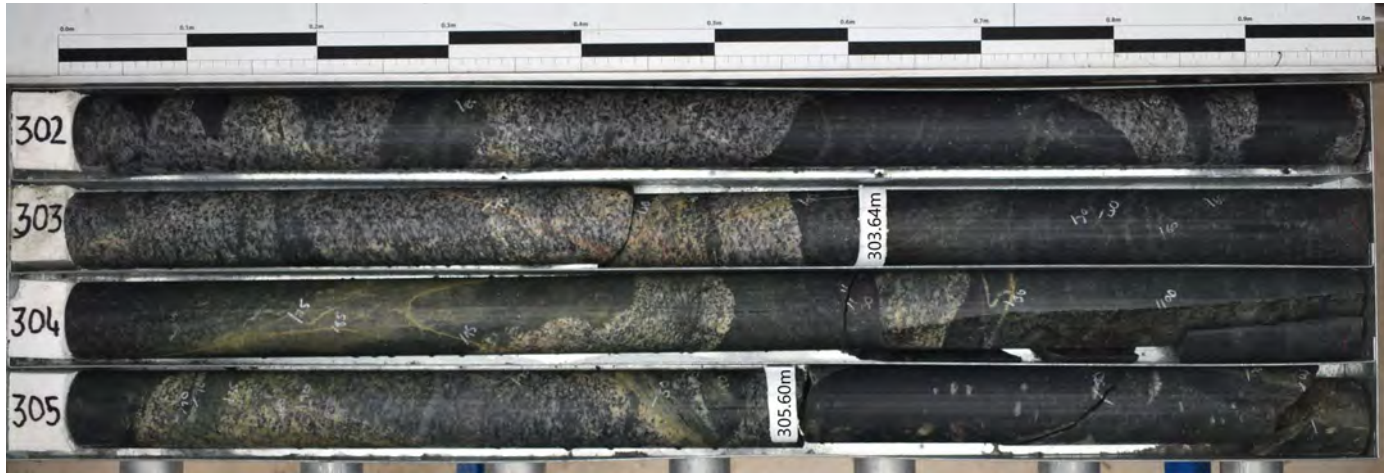
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 43/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:26 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 298.00 - 302.00 m

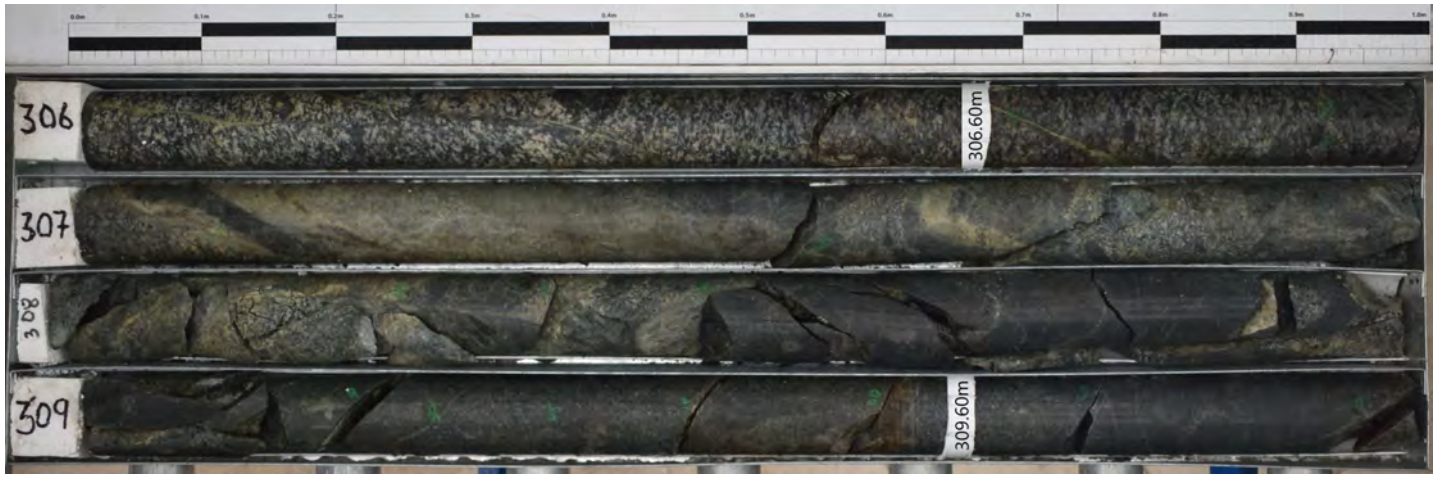


PointID : BHUA-05 Depth Range: 302.00 - 306.00 m

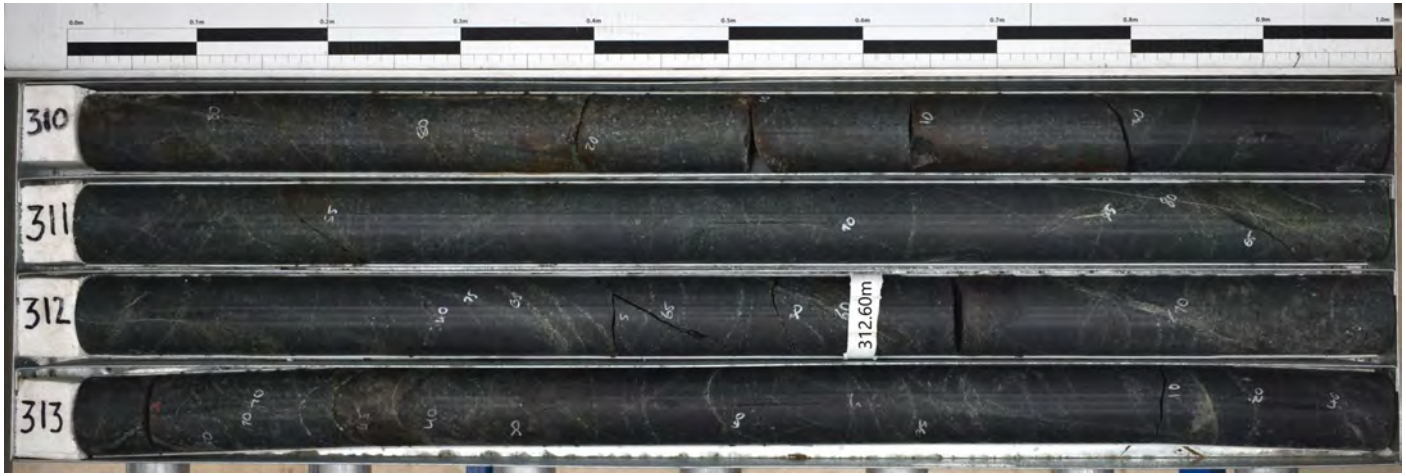
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 44/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:26 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 306.00 - 310.00 m



PointID : BHUA-05 Depth Range: 310.00 - 314.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 45/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:26 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 314.00 - 318.00 m

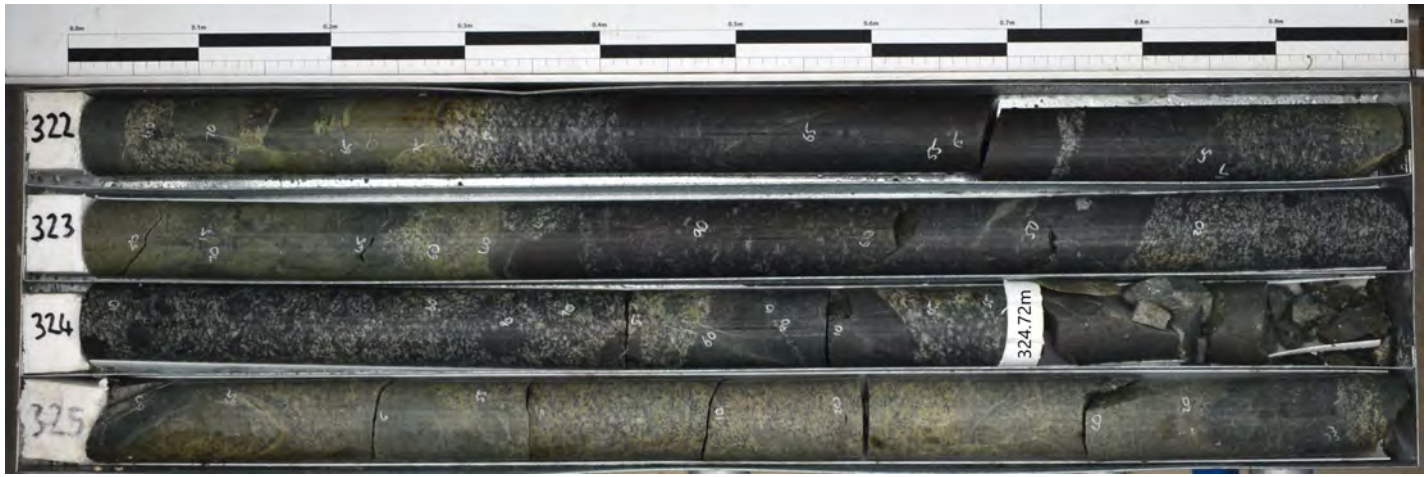


PointID : BHUA-05 Depth Range: 318.00 - 322.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 46/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:26 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 322.00 - 326.00 m



PointID : BHUA-05 Depth Range: 326.00 - 330.00 m

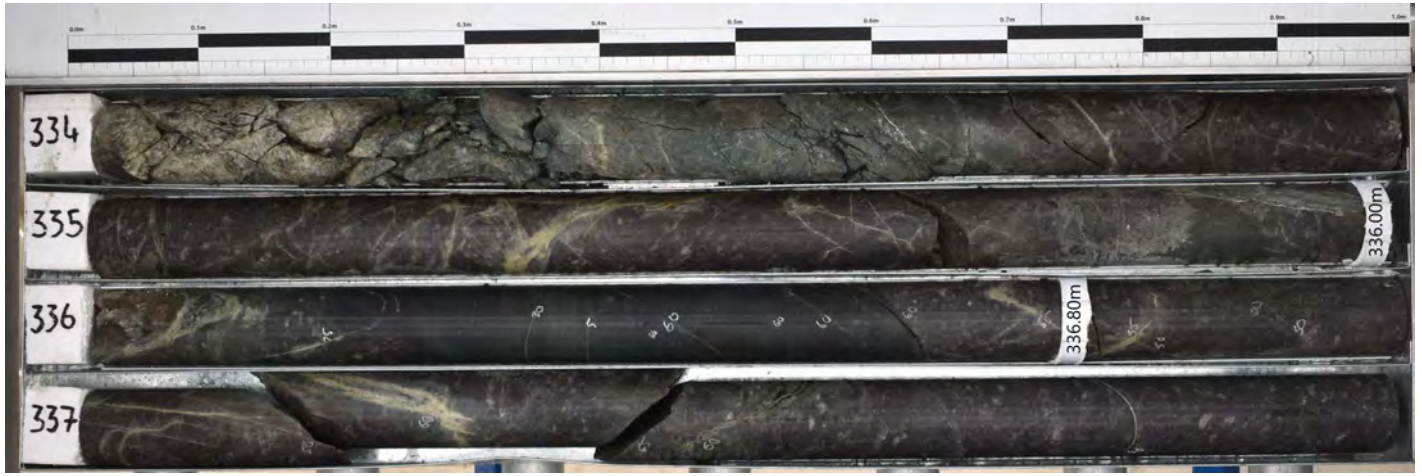
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 47/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:26 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 330.00 - 334.00 m



PointID : BHUA-05 Depth Range: 334.00 - 338.00 m

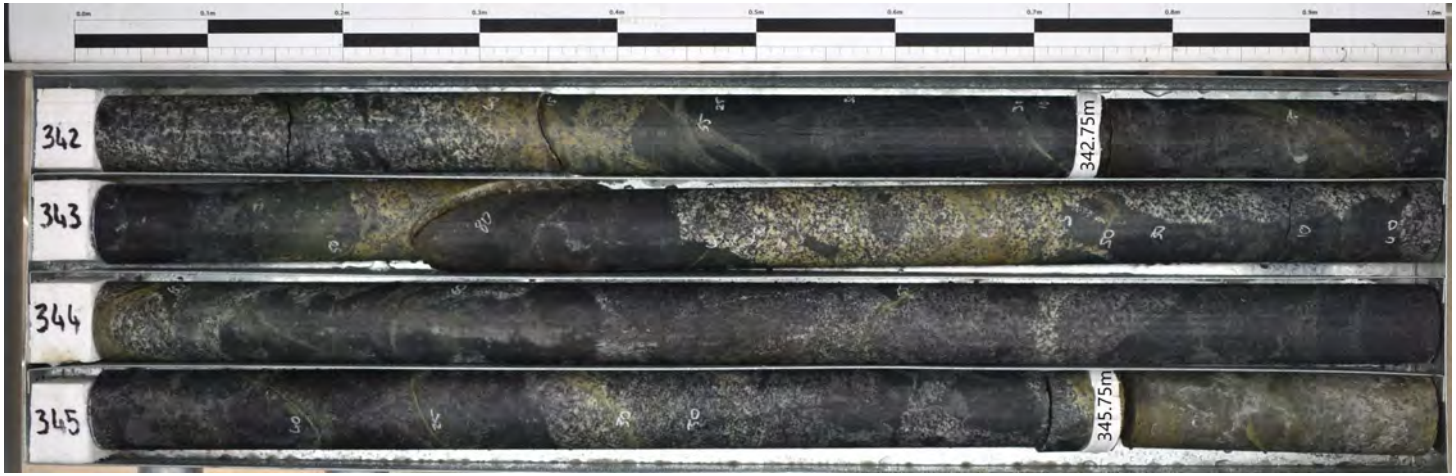
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 48/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:26 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 338.00 - 342.00 m

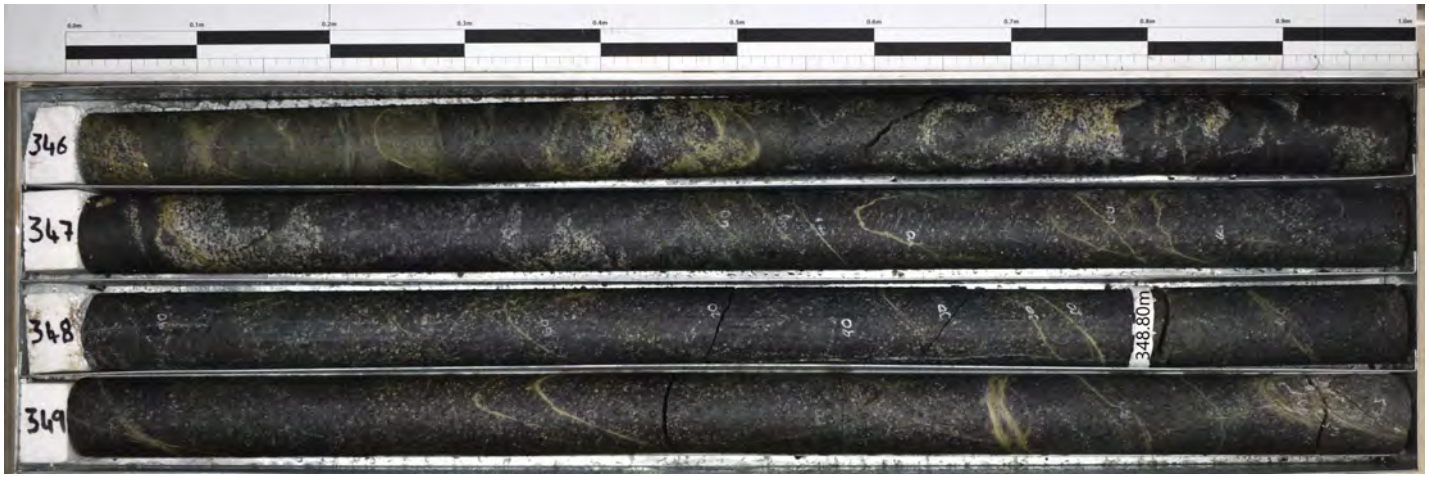


PointID : BHUA-05 Depth Range: 342.00 - 346.00 m

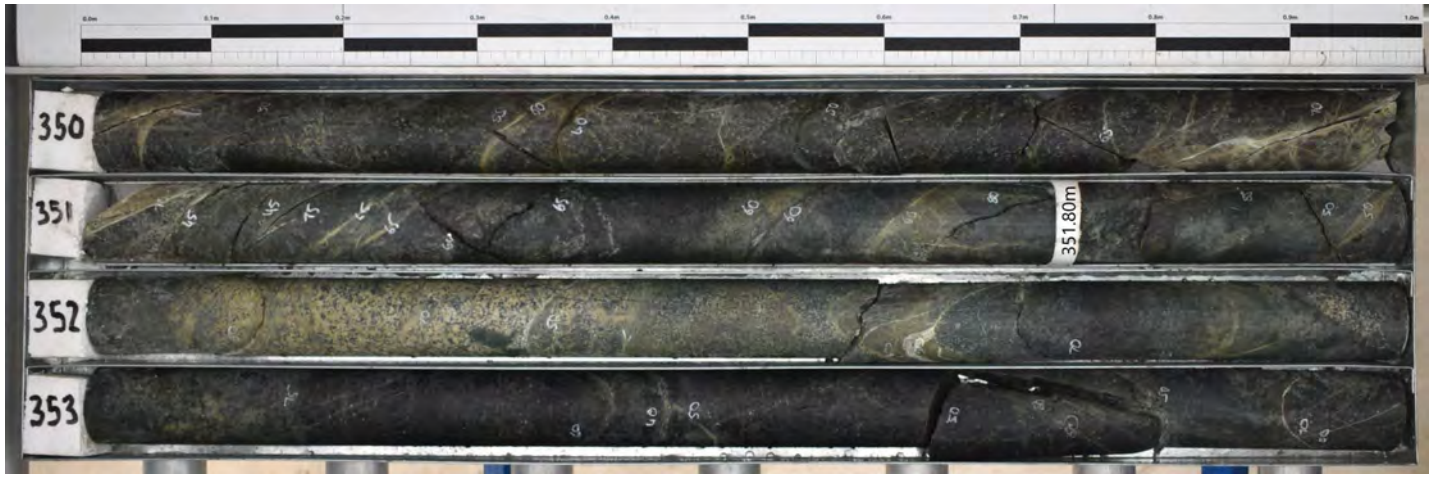
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 49/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:26 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 346.00 - 350.00 m



PointID : BHUA-05 Depth Range: 350.00 - 354.00 m

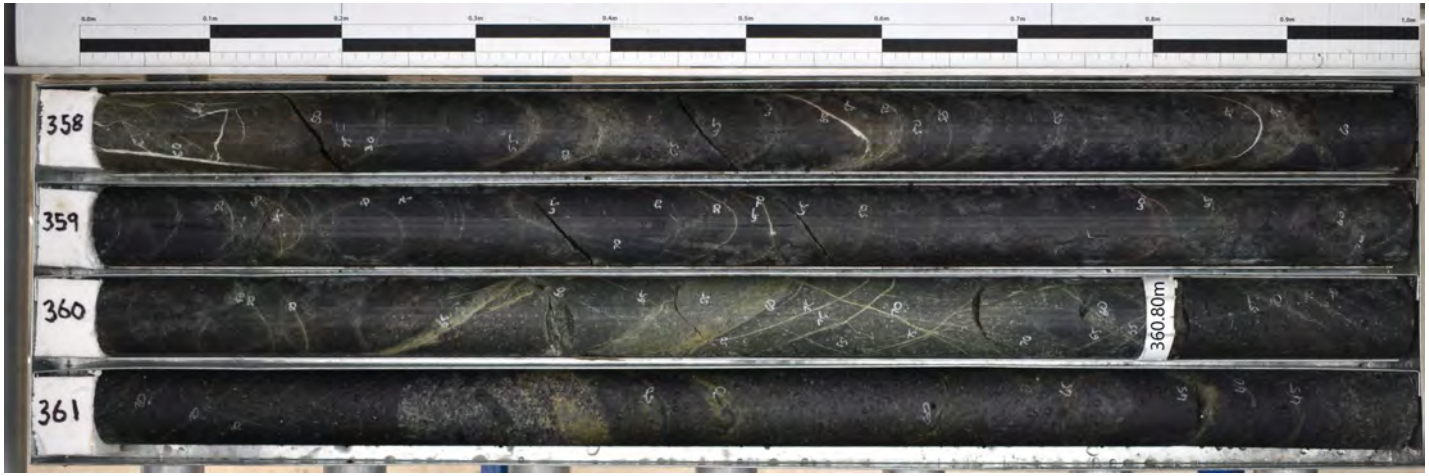
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 50/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:29 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 354.00 - 358.00 m

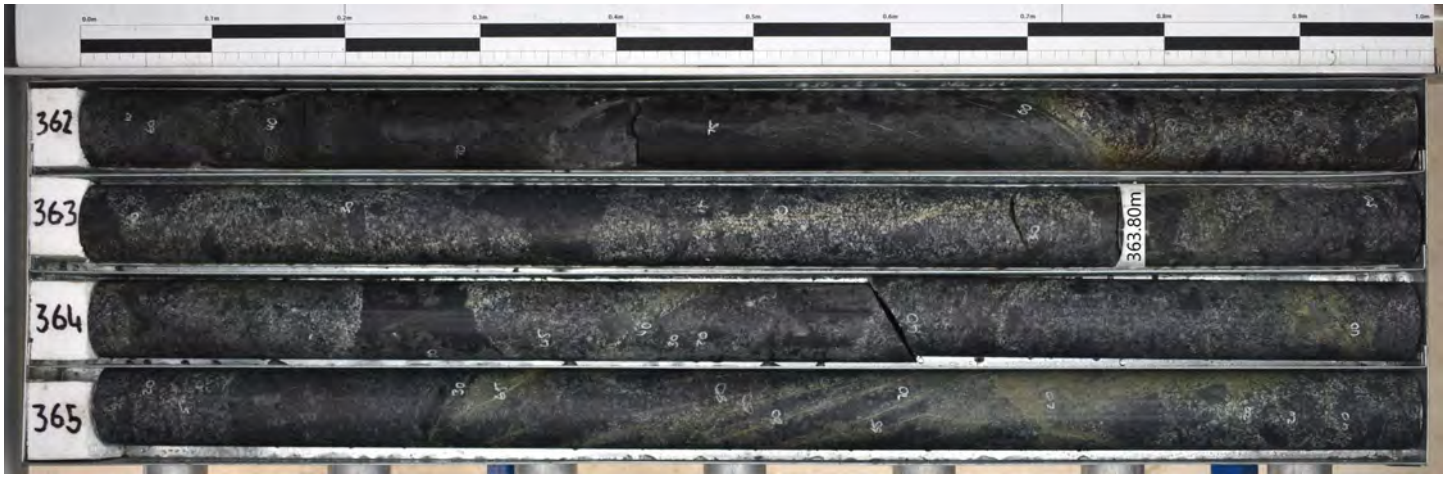


PointID : BHUA-05 Depth Range: 358.00 - 362.00 m

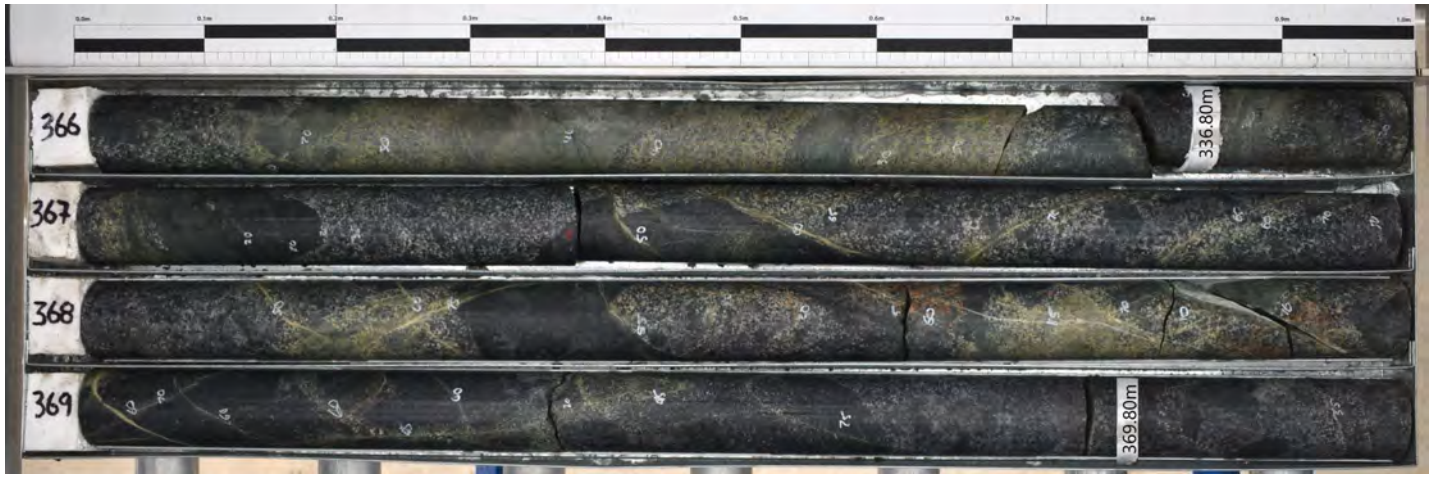
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 51/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:29 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 362.00 - 366.00 m

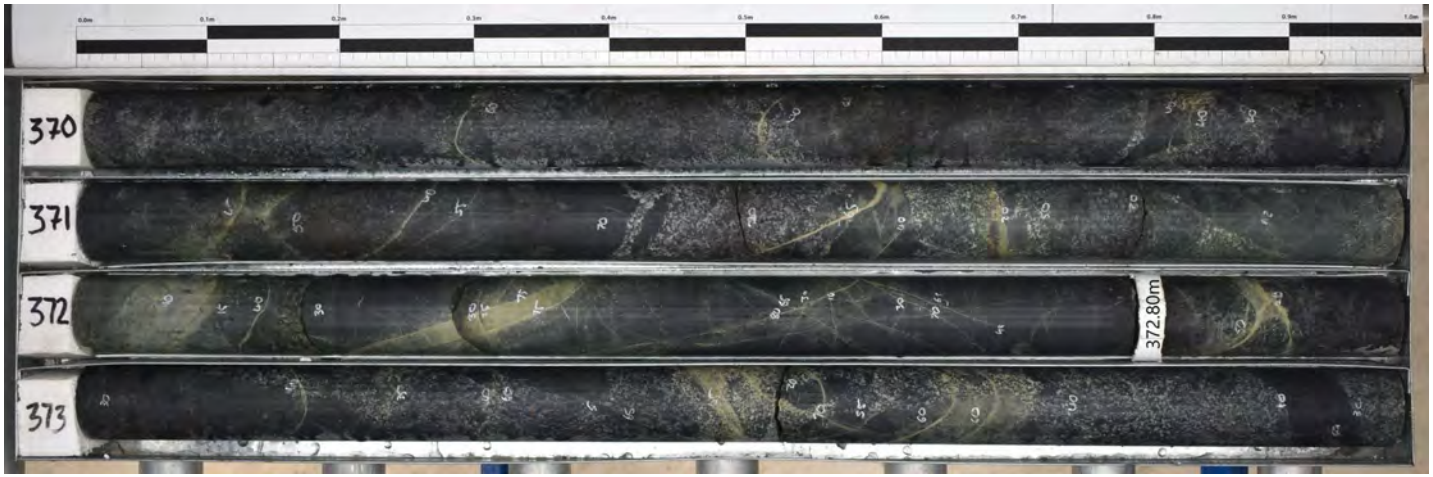


PointID : BHUA-05 Depth Range: 366.00 - 370.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 52/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:29 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 370.00 - 374.00 m



PointID : BHUA-05 Depth Range: 374.00 - 378.00 m

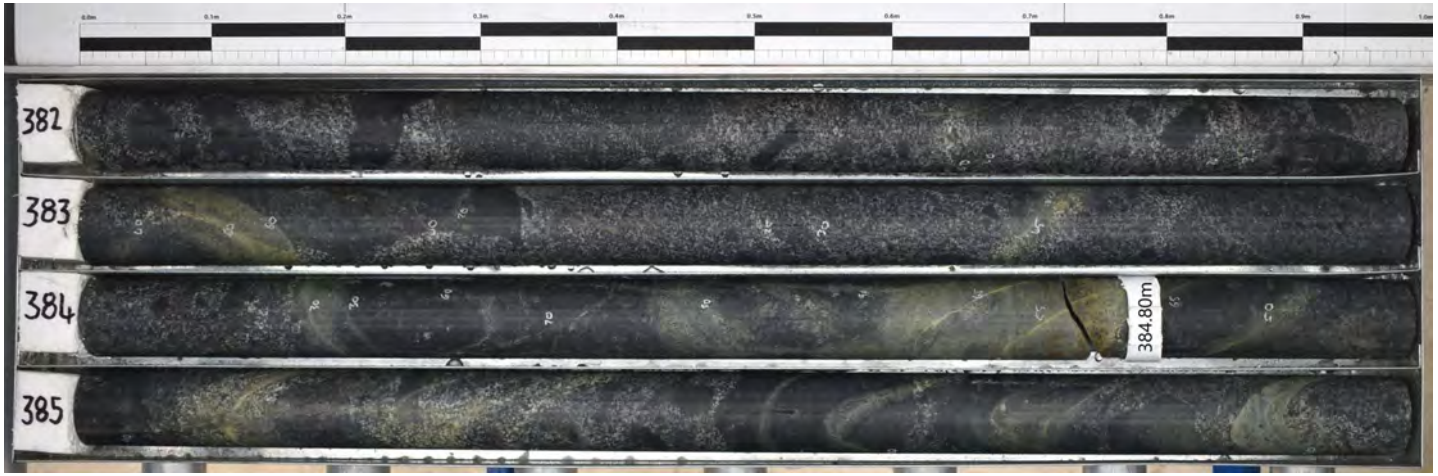
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 53/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:29 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 378.00 - 382.00 m

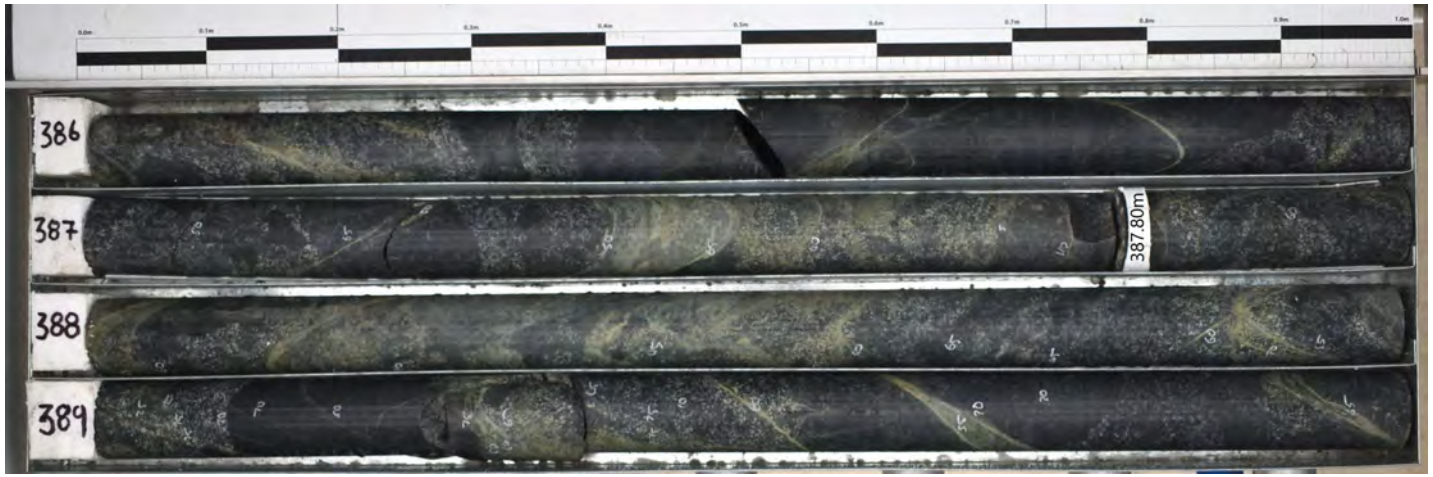


PointID : BHUA-05 Depth Range: 382.00 - 386.00 m

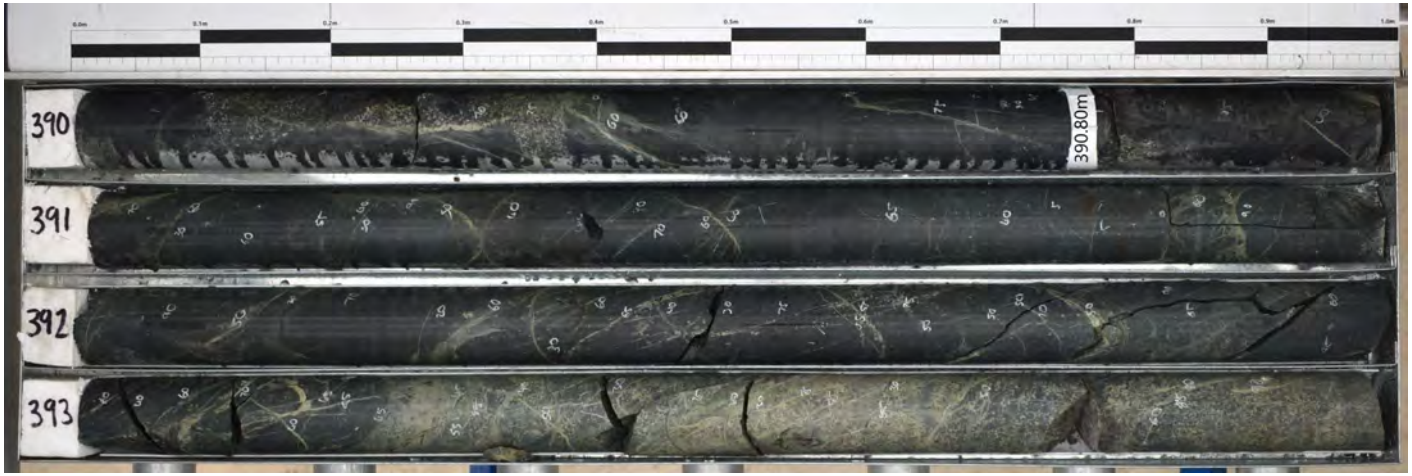
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 54/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:29 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 386.00 - 390.00 m



PointID : BHUA-05 Depth Range: 390.00 - 394.00 m

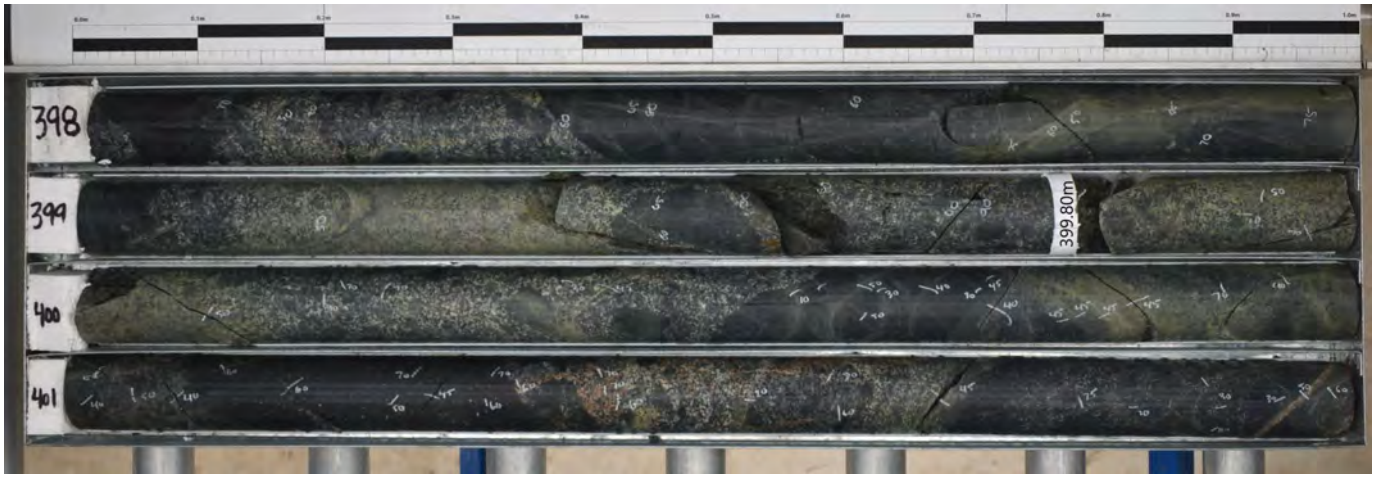
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 55/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:29 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 394.00 - 398.00 m



PointID : BHUA-05 Depth Range: 398.00 - 402.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 56/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:30 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 402.00 - 406.00 m

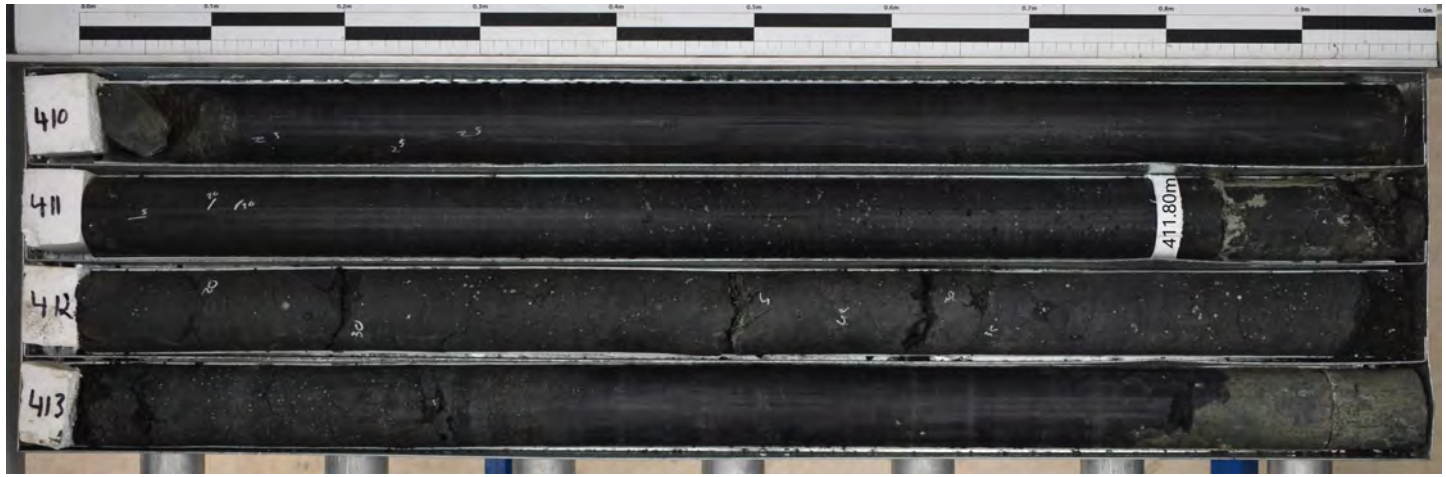


PointID : BHUA-05 Depth Range: 406.00 - 410.00 m

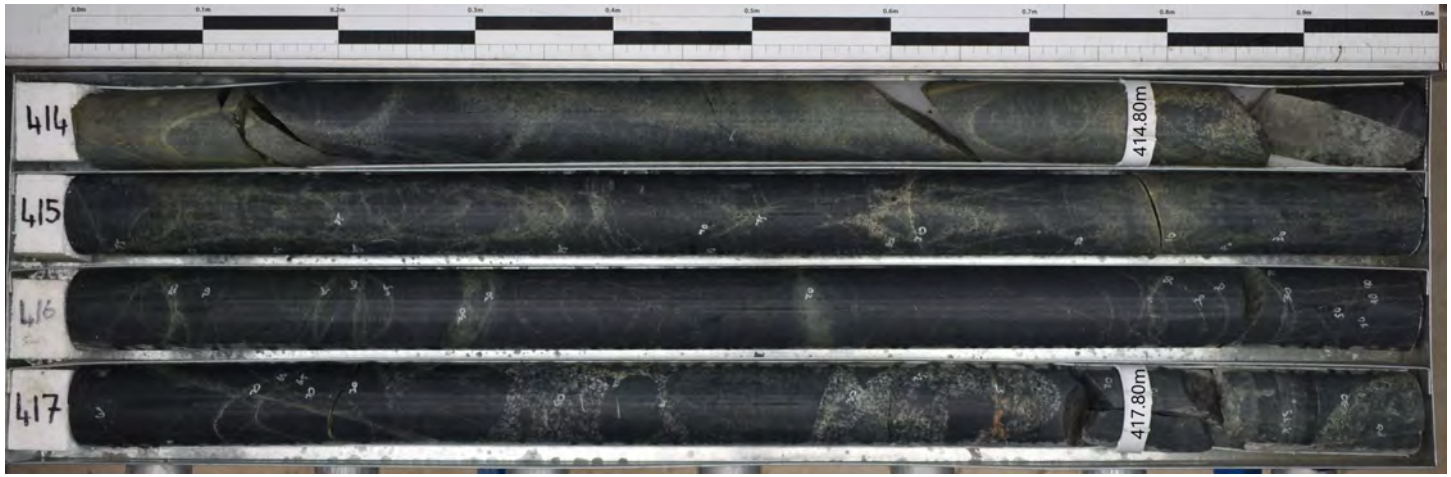
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 57/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:30 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 410.00 - 414.00 m



PointID : BHUA-05 Depth Range: 414.00 - 418.00 m

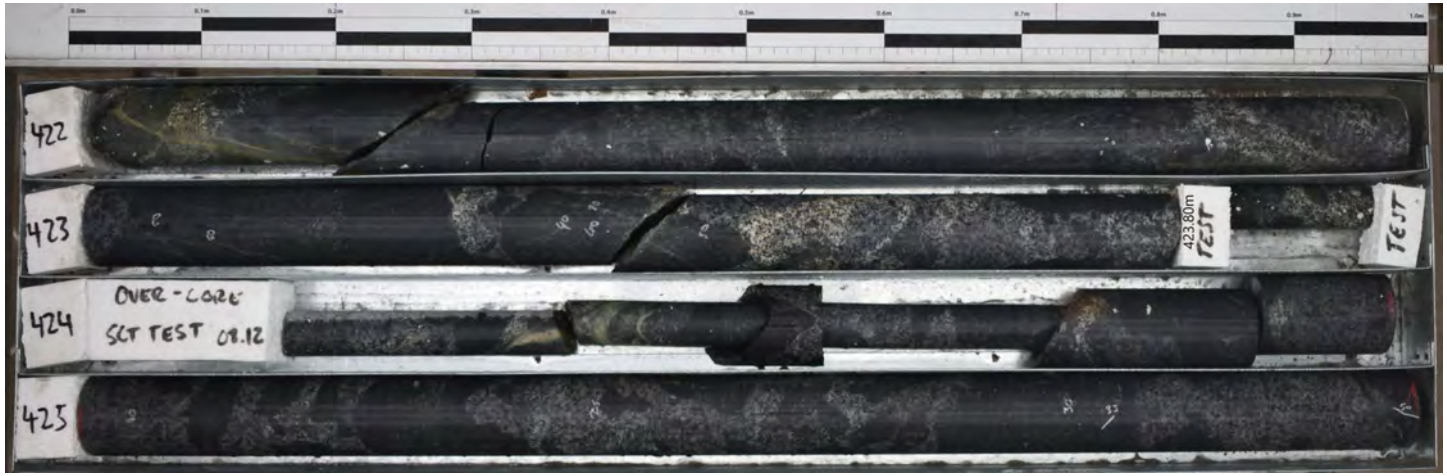
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 58/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:30 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 418.00 - 422.00 m

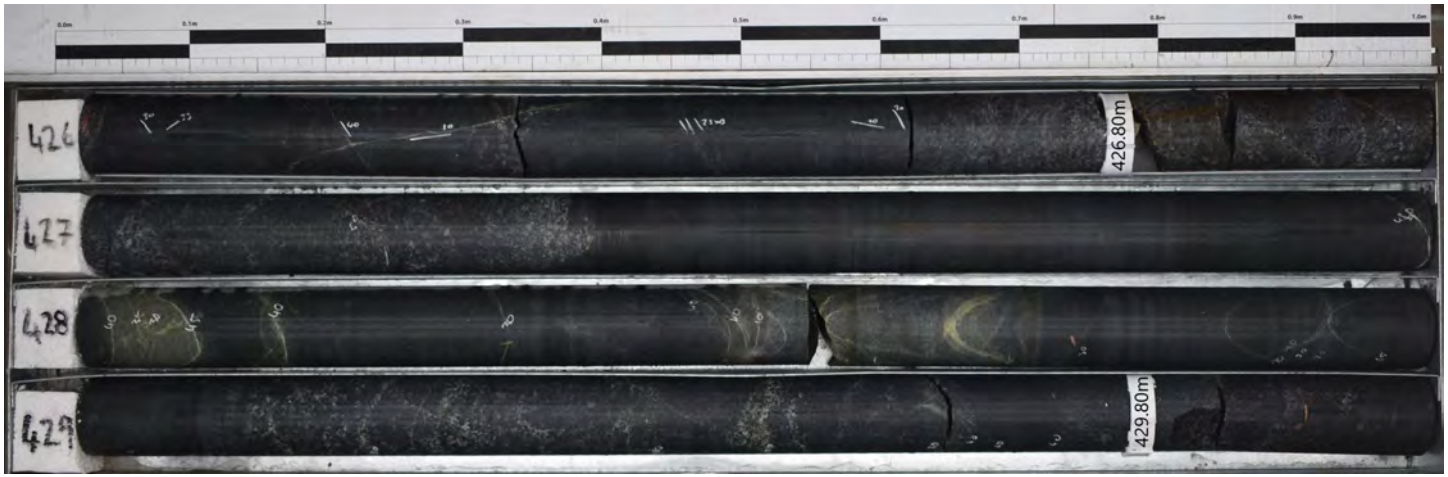


PointID : BHUA-05 Depth Range: 422.00 - 426.00 m

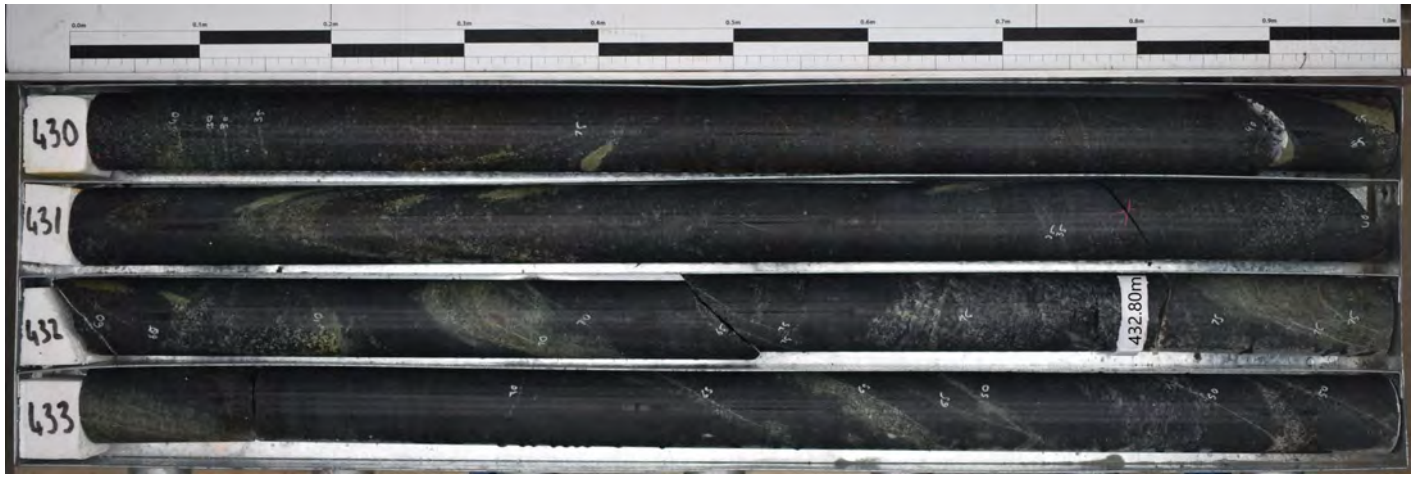
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 59/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:48 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 426.00 - 430.00 m

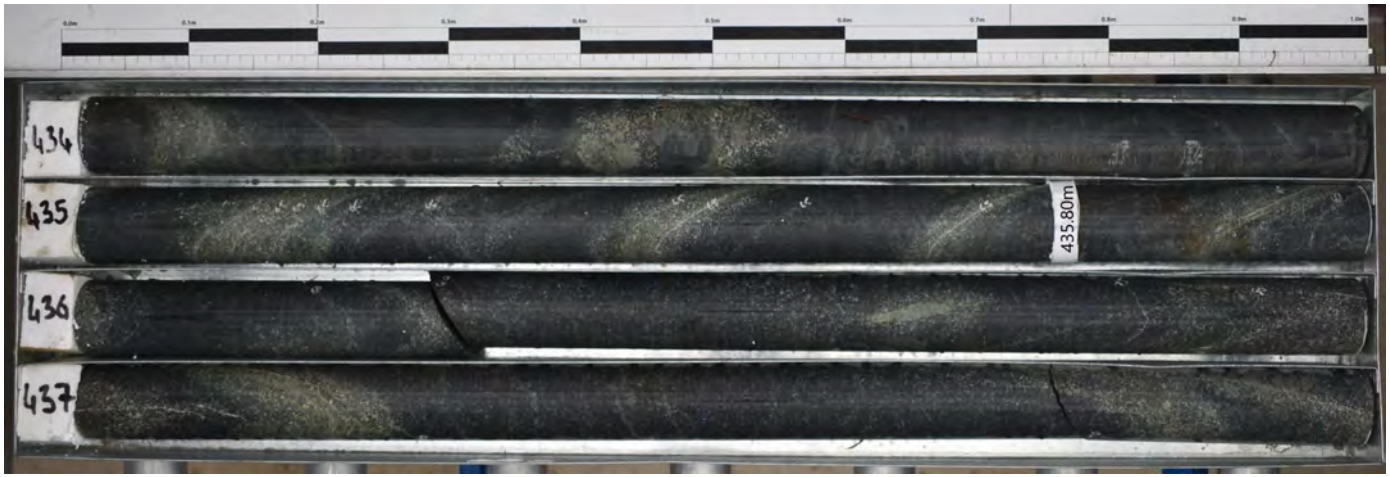


PointID : BHUA-05 Depth Range: 430.00 - 434.00 m

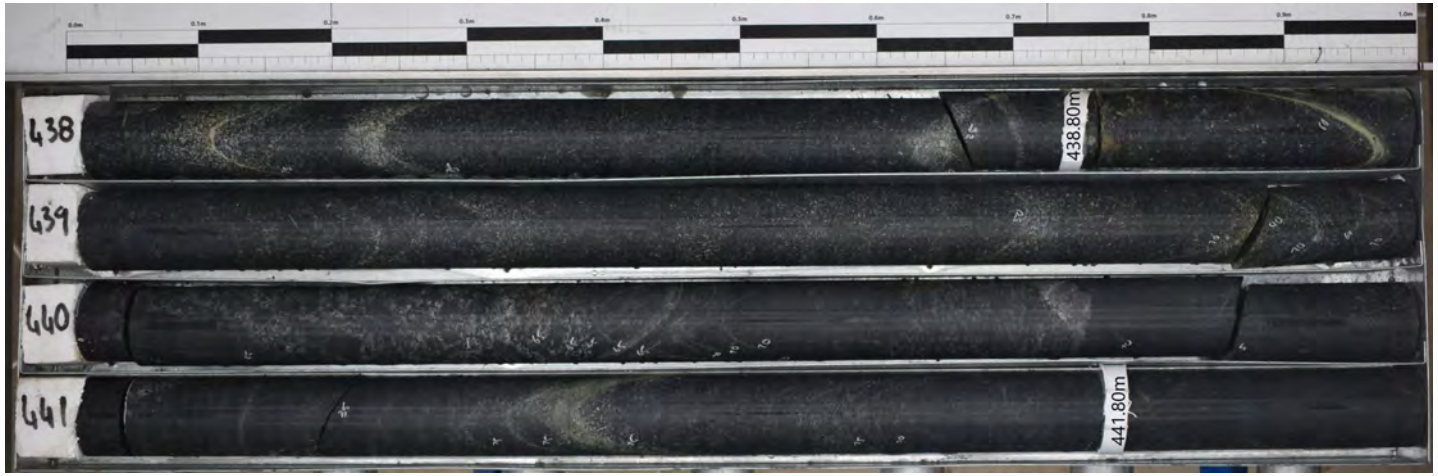
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 60/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:30 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 434.00 - 438.00 m



PointID : BHUA-05 Depth Range: 438.00 - 442.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 61/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:30 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 442.00 - 446.00 m

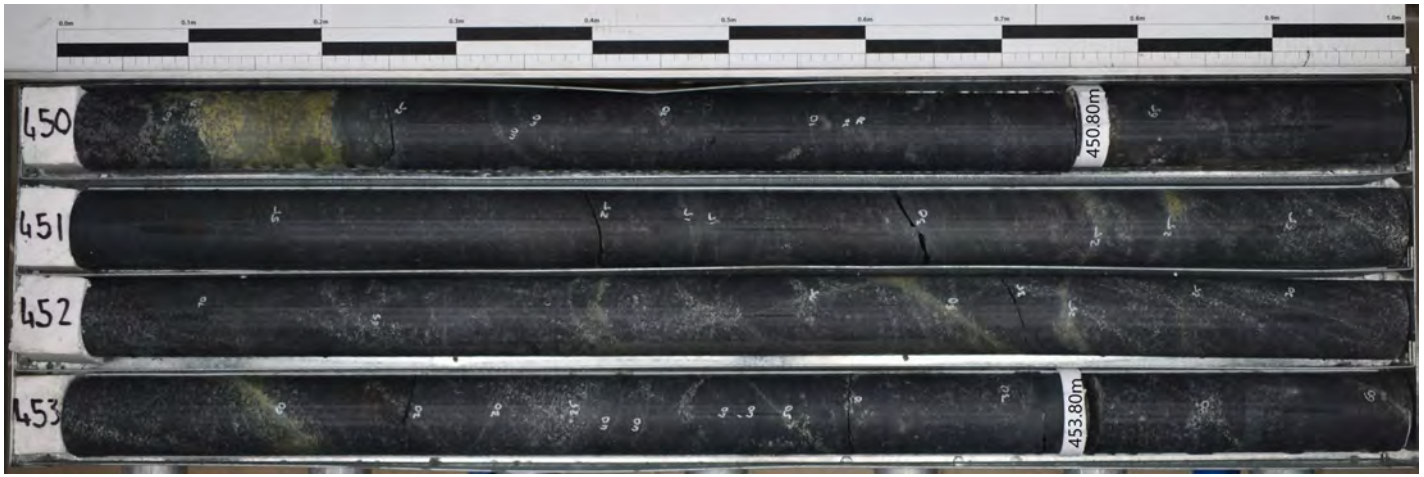


PointID : BHUA-05 Depth Range: 446.00 - 450.00 m

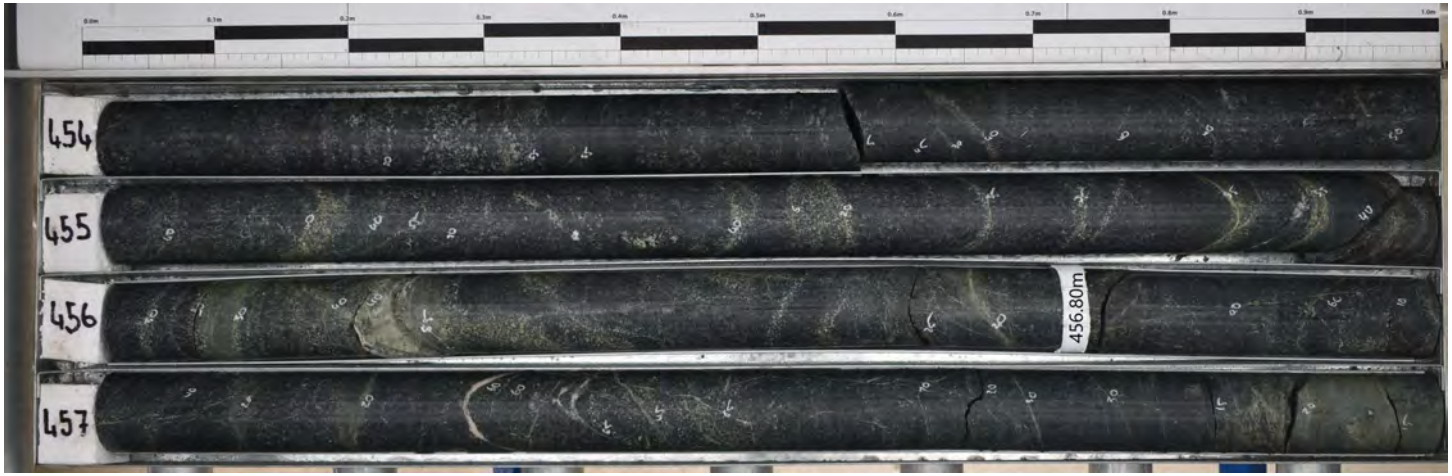
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 62/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:30 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 450.00 - 454.00 m



PointID : BHUA-05 Depth Range: 454.00 - 458.00 m

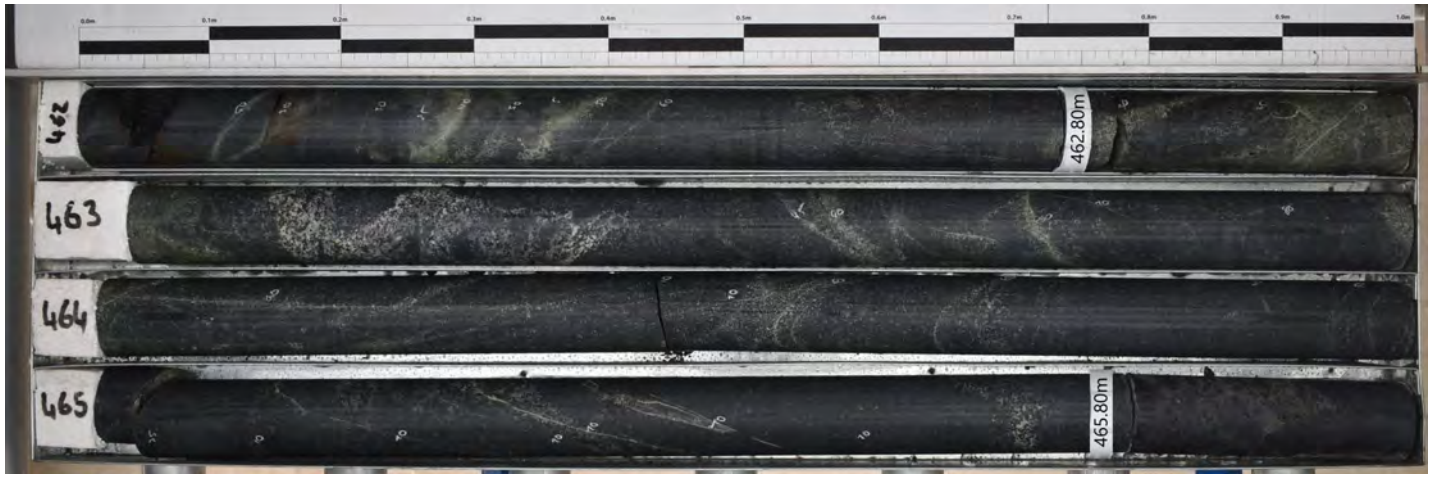
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 63/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:30 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 458.00 - 462.00 m

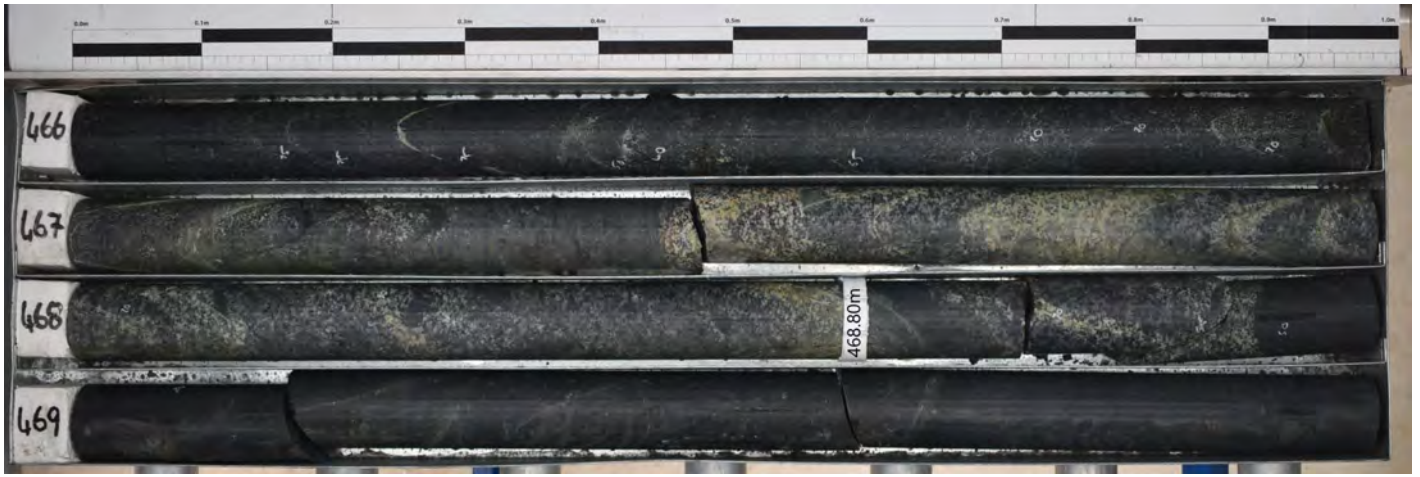


PointID : BHUA-05 Depth Range: 462.00 - 466.00 m

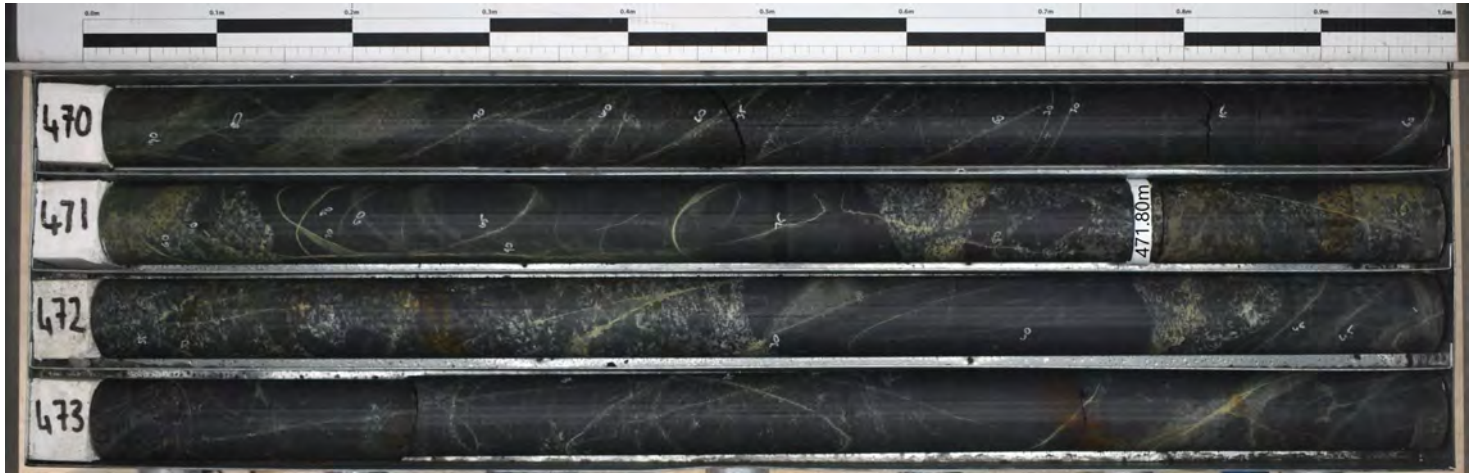
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 64/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:30 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 466.00 - 470.00 m

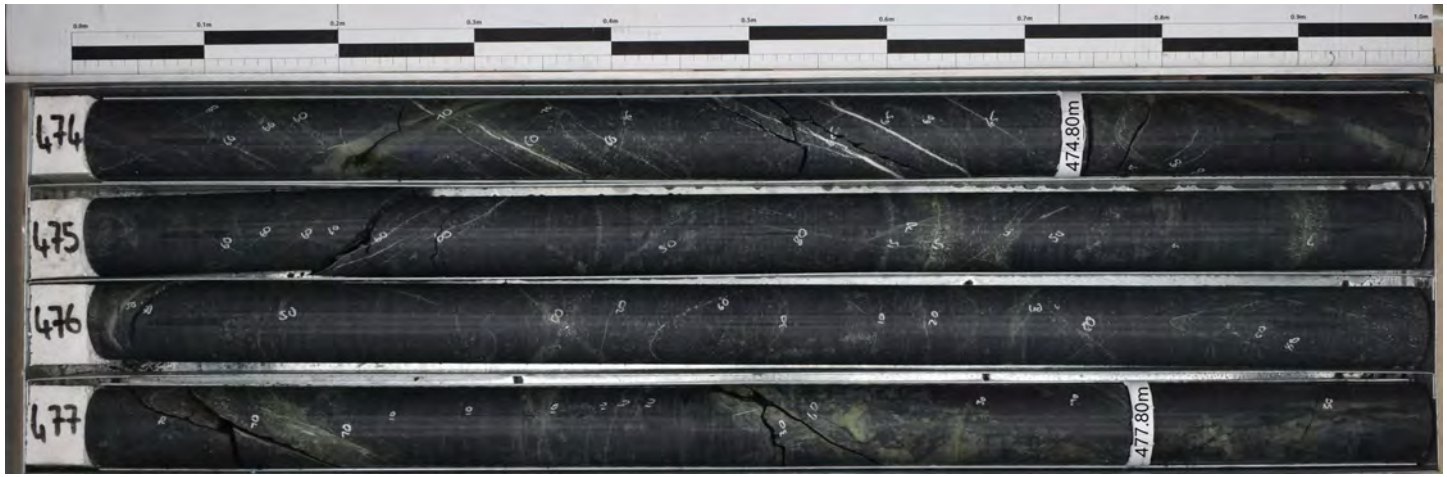


PointID : BHUA-05 Depth Range: 470.00 - 474.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 65/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:31 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 474.00 - 478.00 m

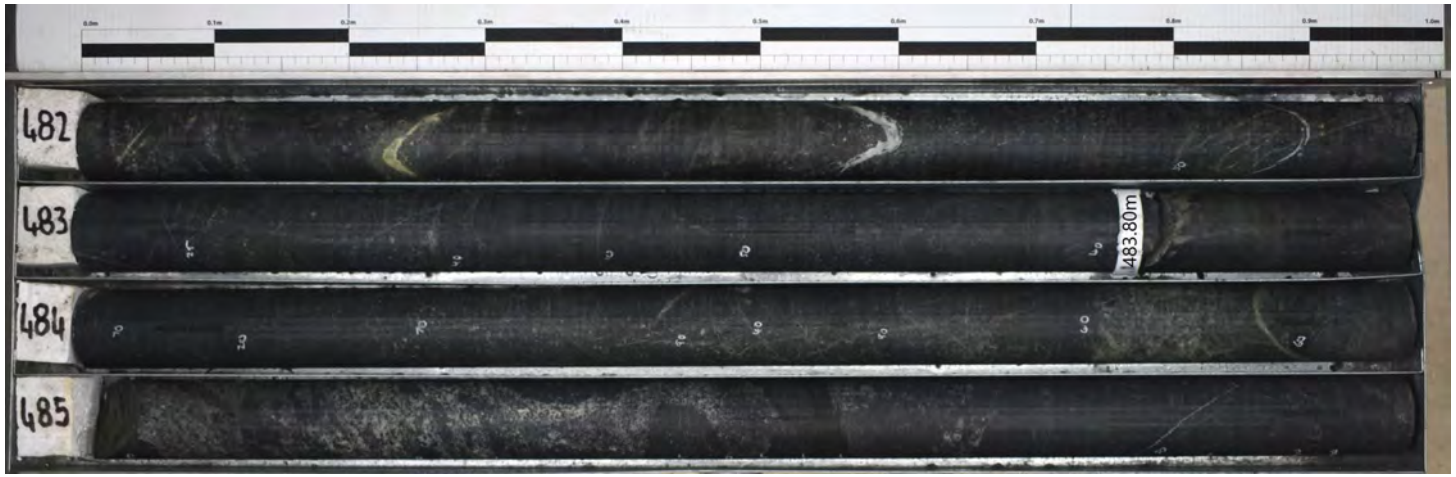


PointID : BHUA-05 Depth Range: 478.00 - 482.00 m

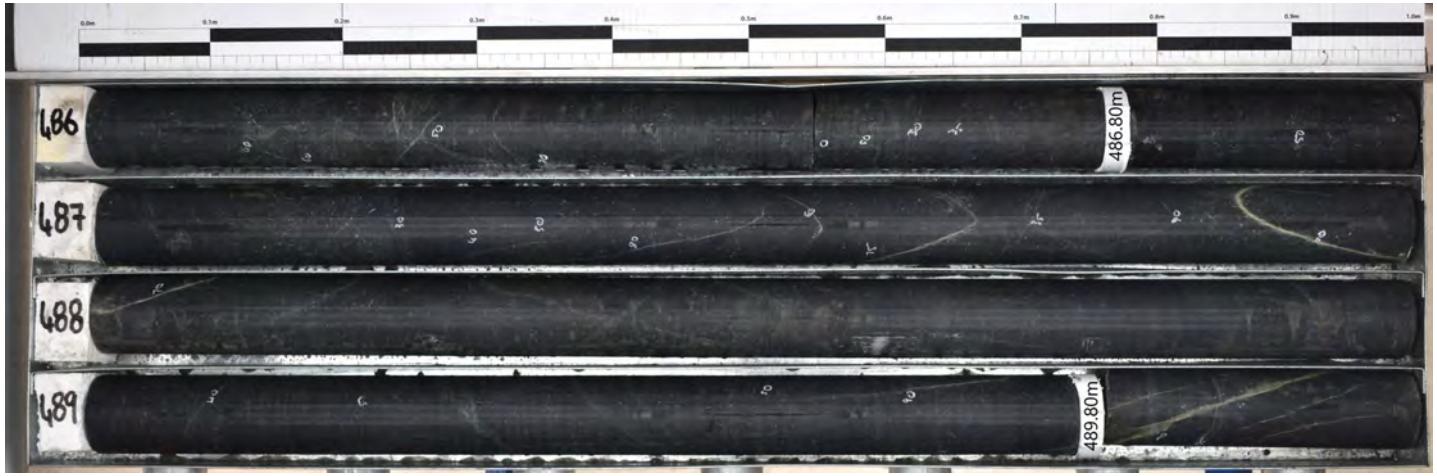
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 66/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:31 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 482.00 - 486.00 m

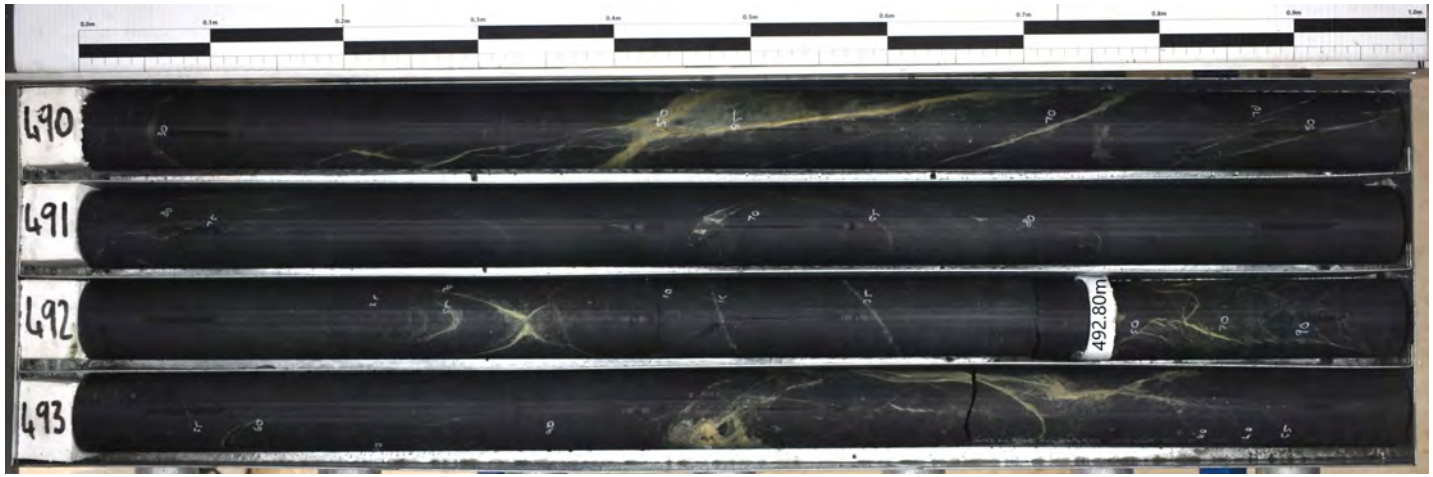


PointID : BHUA-05 Depth Range: 486.00 - 490.00 m

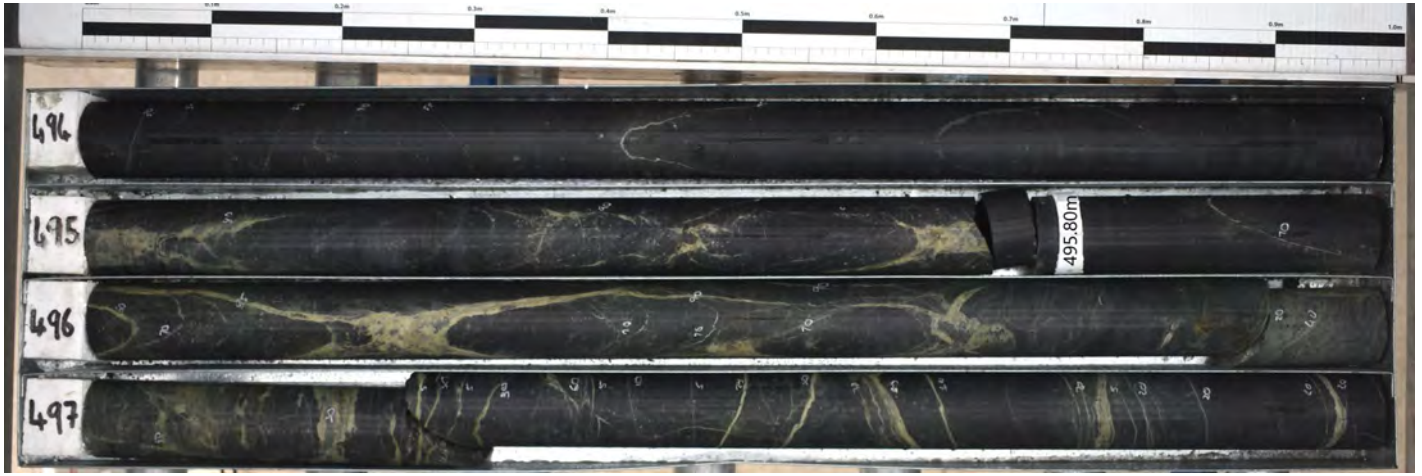
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 67/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:31 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 490.00 - 494.00 m

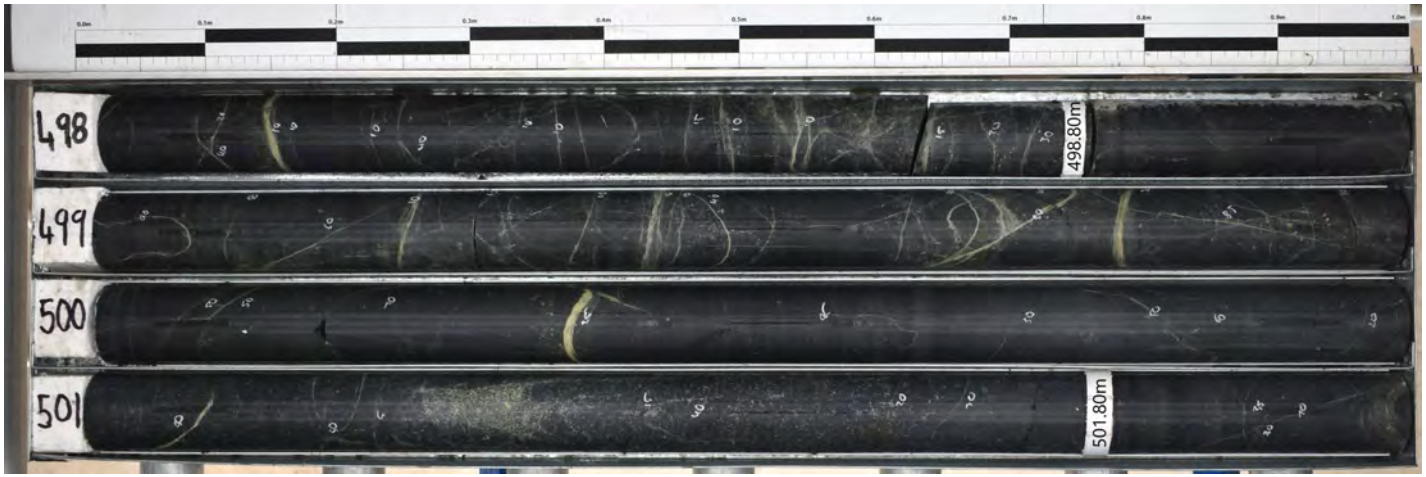


PointID : BHUA-05 Depth Range: 494.00 - 498.00 m

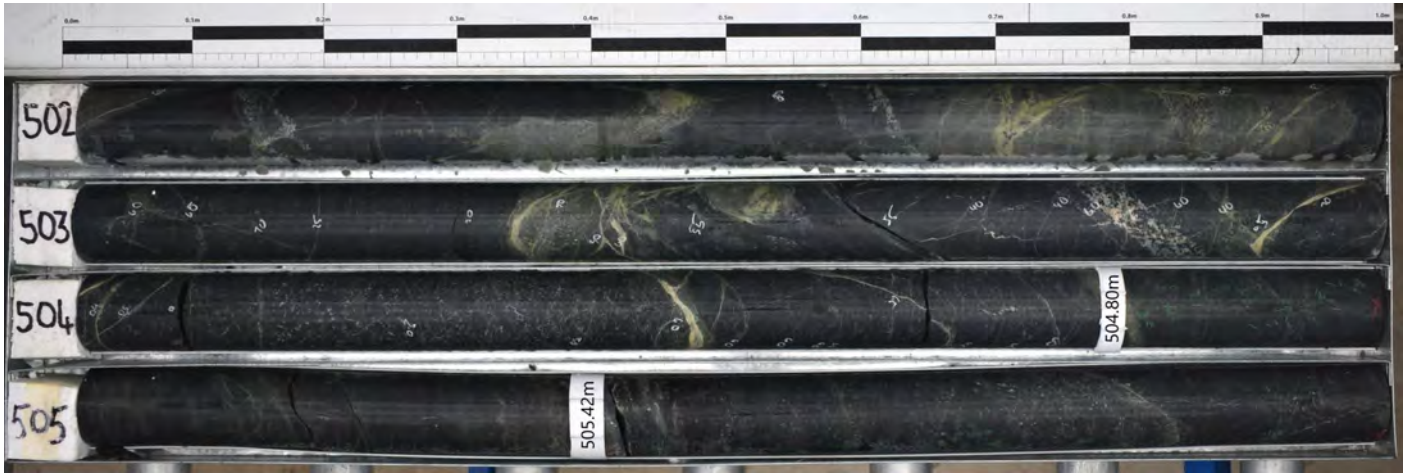
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 68/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:31 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 498.00 - 502.00 m



PointID : BHUA-05 Depth Range: 502.00 - 506.00 m

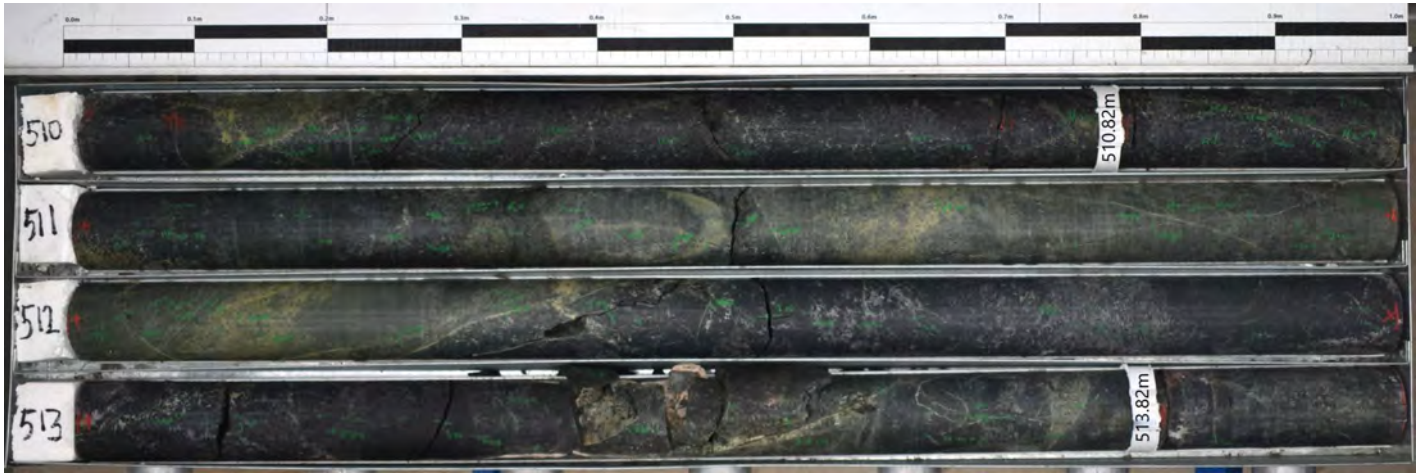
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 69/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:31 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 506.00 - 510.00 m



PointID : BHUA-05 Depth Range: 510.00 - 514.00 m

wsp

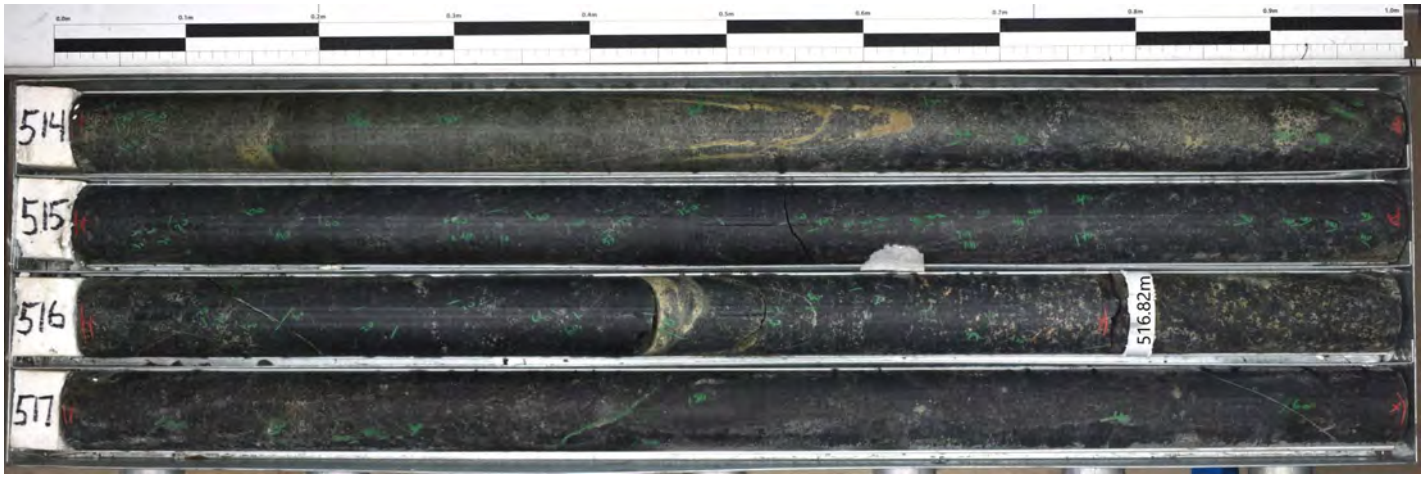
TITLE

Queensland Hydro
Netherdale/Dalrymple Heights
Pioneer-Burdekin PHES
Core photo - BHUA-05

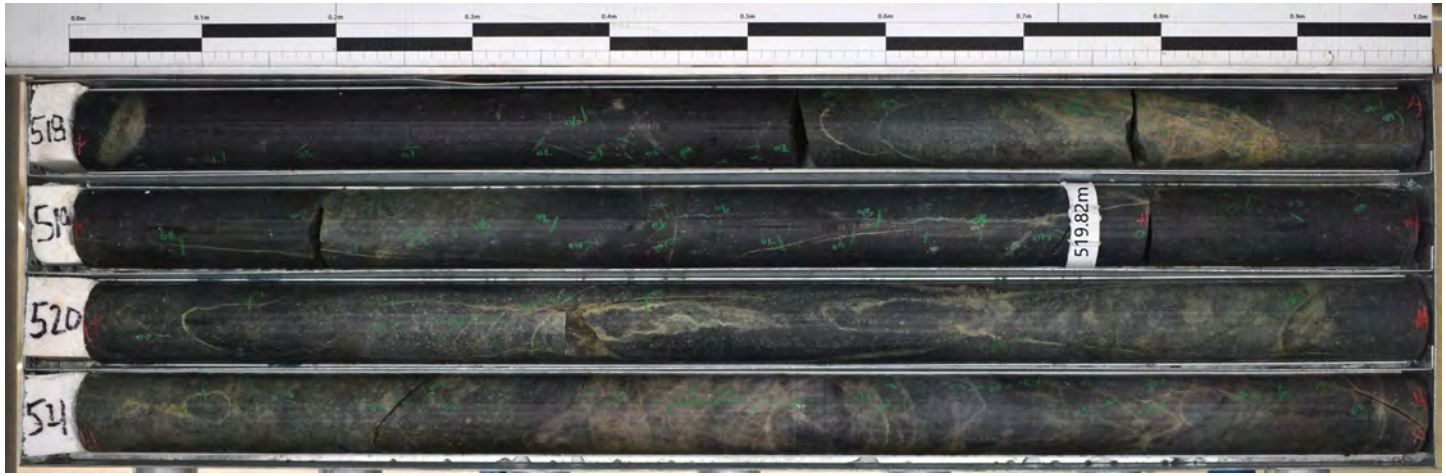
DRAWN	RC	DATE	29/11/2024
CHECKED	GEM	DATE	4/12/2024
SCALE	Not To Scale		A4
PROJECT No	PS138693	FIGURE No	70/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:31 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 514.00 - 518.00 m

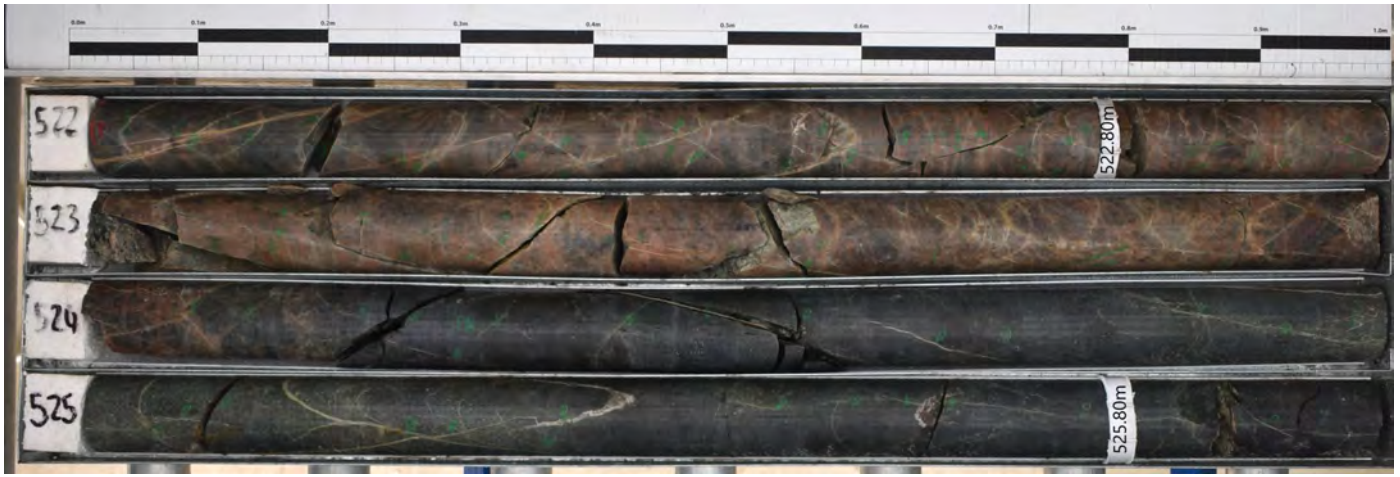


PointID : BHUA-05 Depth Range: 518.00 - 522.00 m

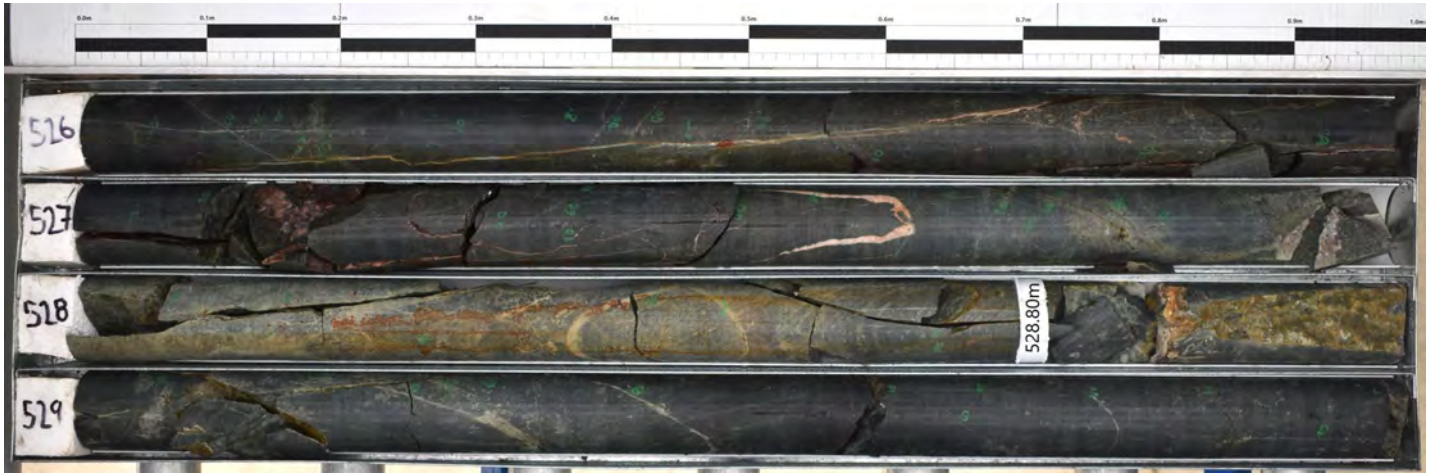
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 71/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:31 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 522.00 - 526.00 m

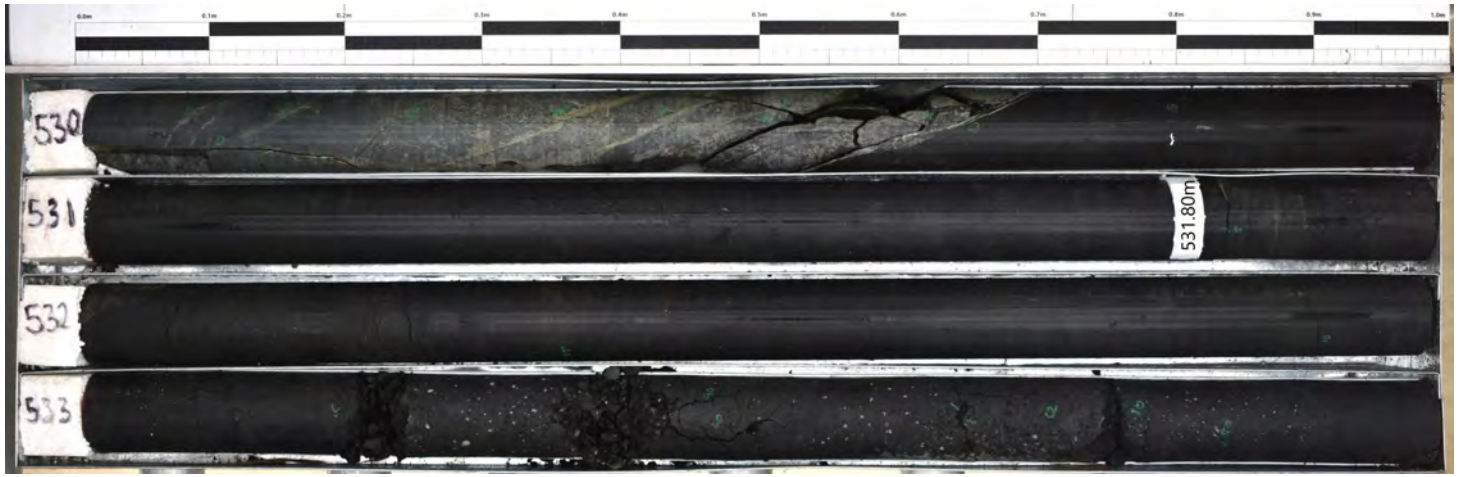


PointID : BHUA-05 Depth Range: 526.00 - 530.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 72/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:31 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 530.00 - 534.00 m



PointID : BHUA-05 Depth Range: 534.00 - 538.00 m

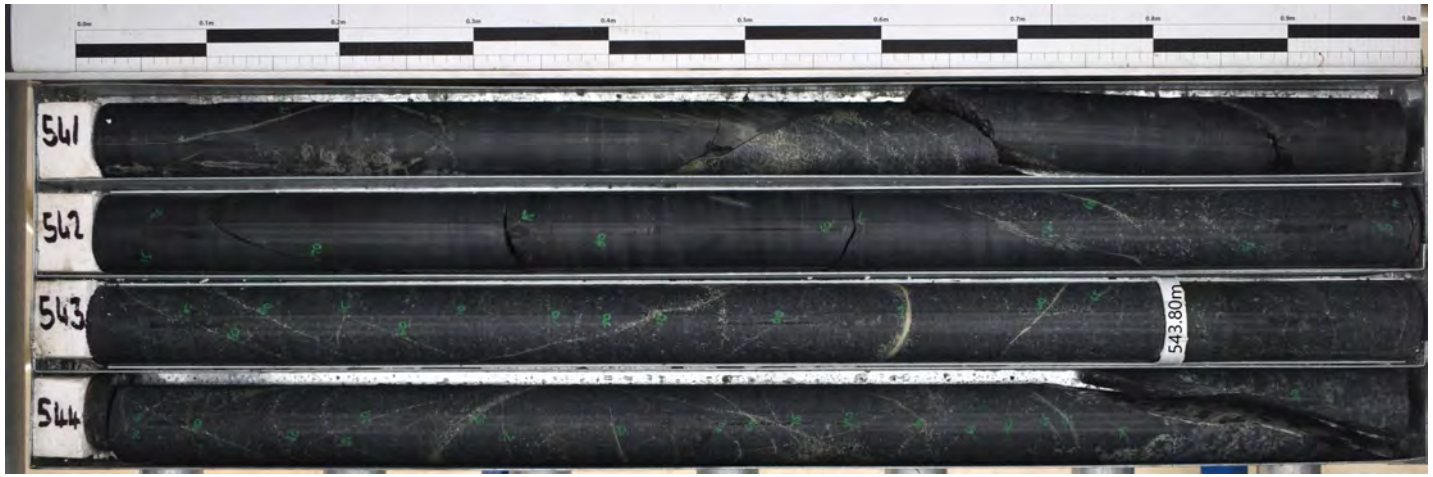
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 73/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:32 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 538.00 - 541.00 m

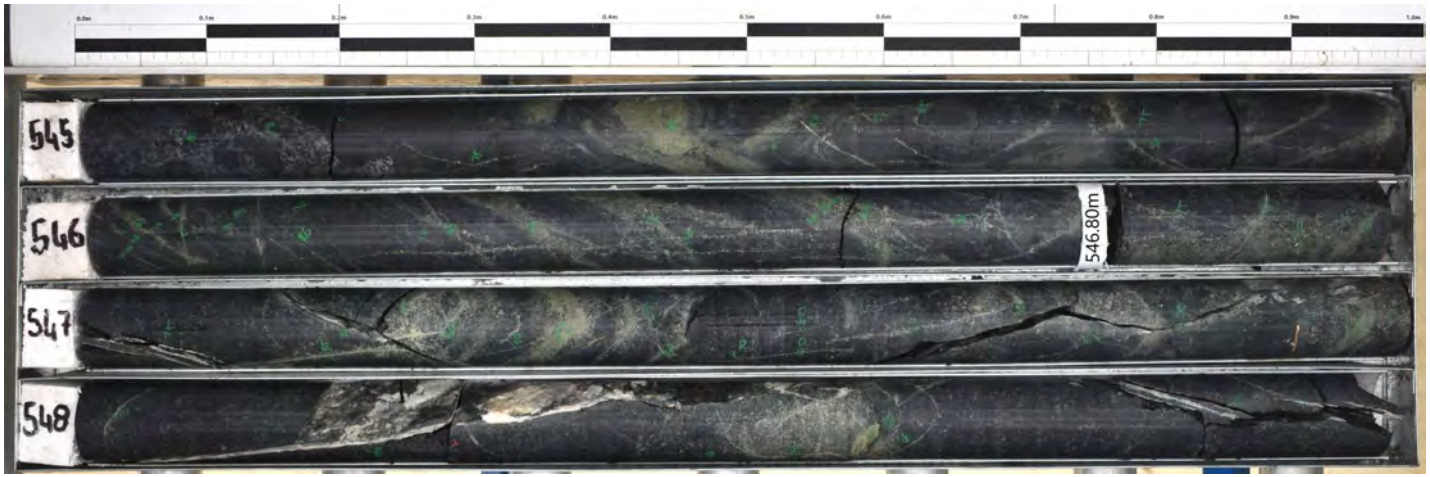


PointID : BHUA-05 Depth Range: 541.00 - 545.00 m

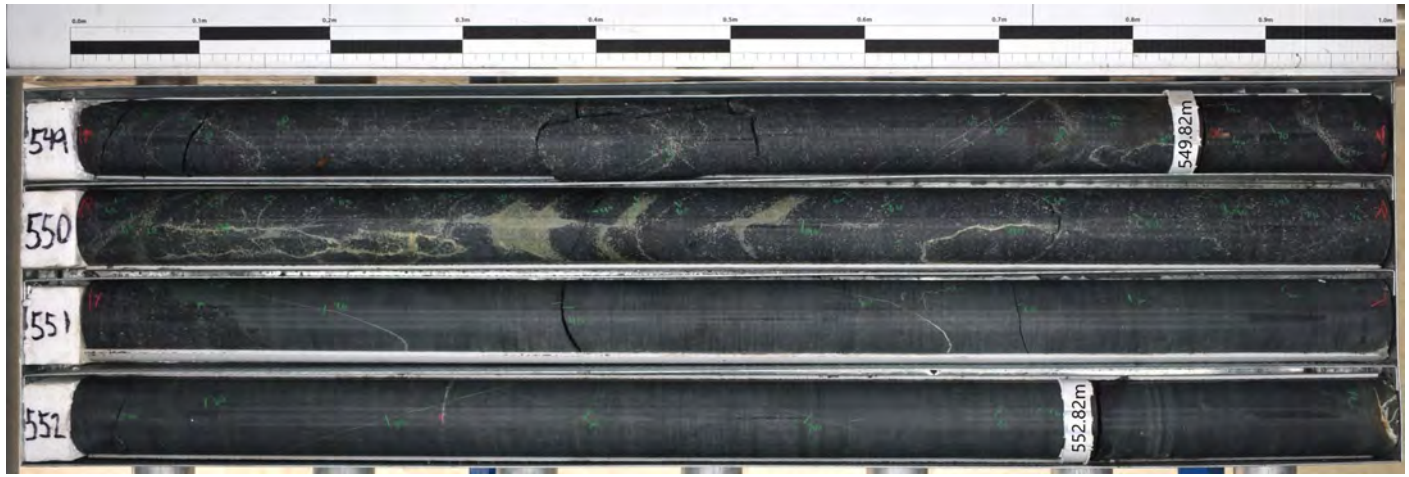
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 74/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:32 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 545.00 - 549.00 m



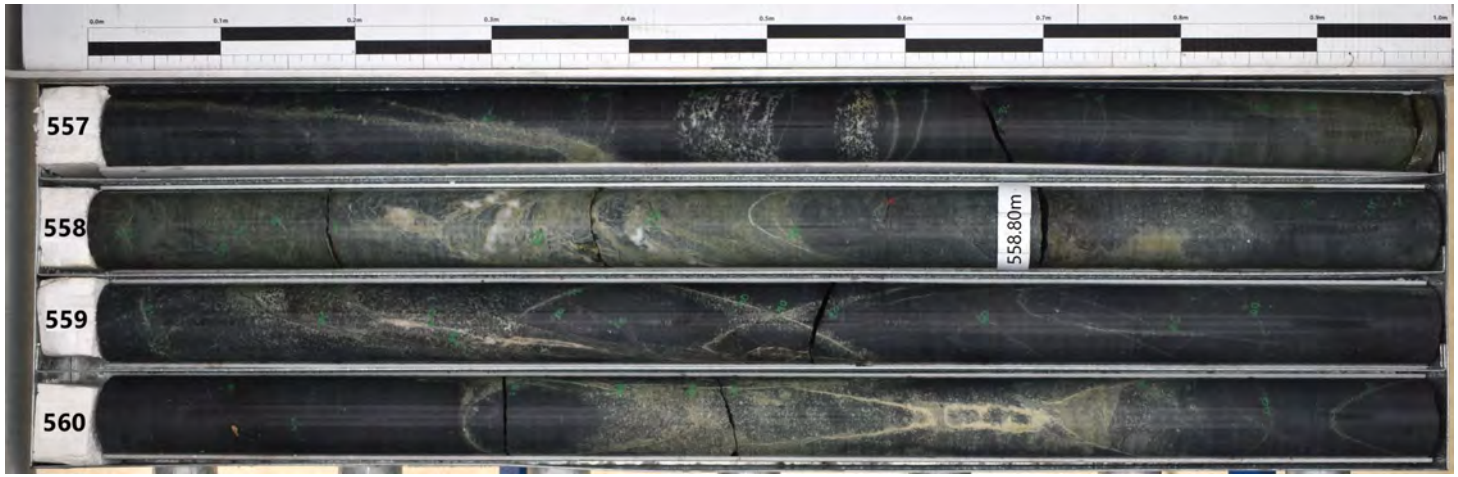
PointID : BHUA-05 Depth Range: 549.00 - 553.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 75/119

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PointID : BHUA-05 Depth Range: 553.00 - 557.00 m



PointID : BHUA-05 Depth Range: 557.00 - 561.00 m

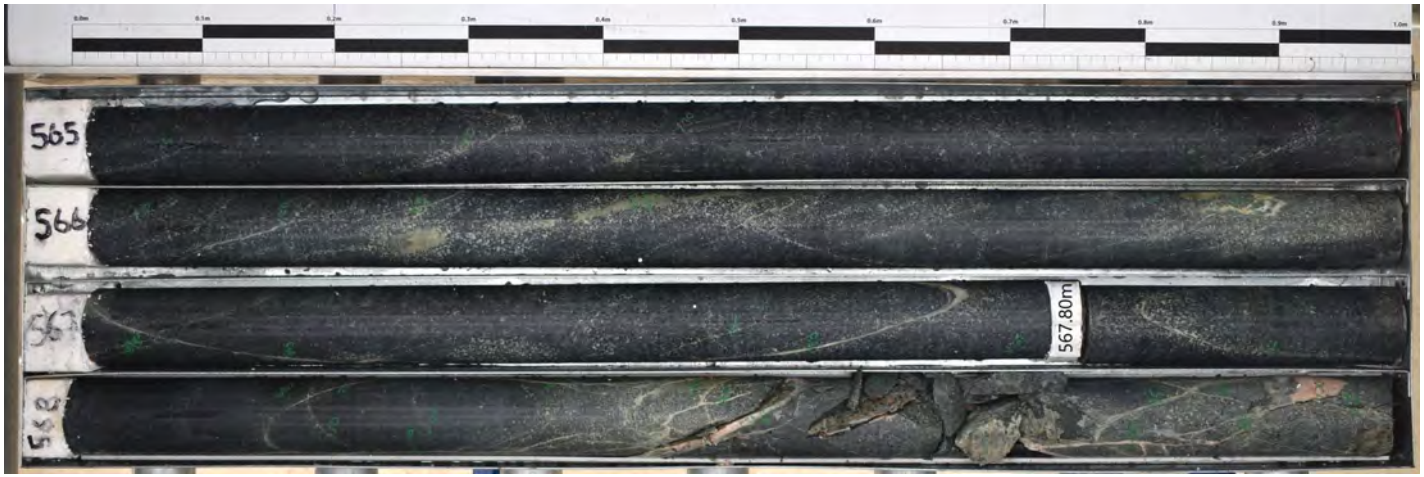
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 76/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:32 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 561.00 - 565.00 m



PointID : BHUA-05 Depth Range: 565.00 - 569.00 m

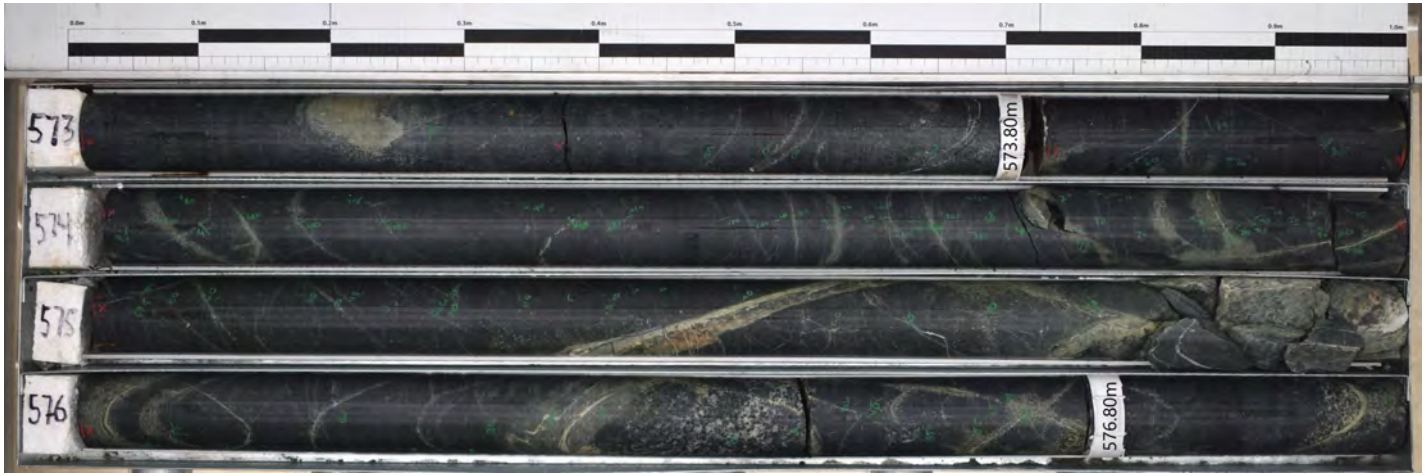
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 77/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:32 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 569.00 - 573.00 m



PointID : BHUA-05 Depth Range: 573.00 - 577.00 m

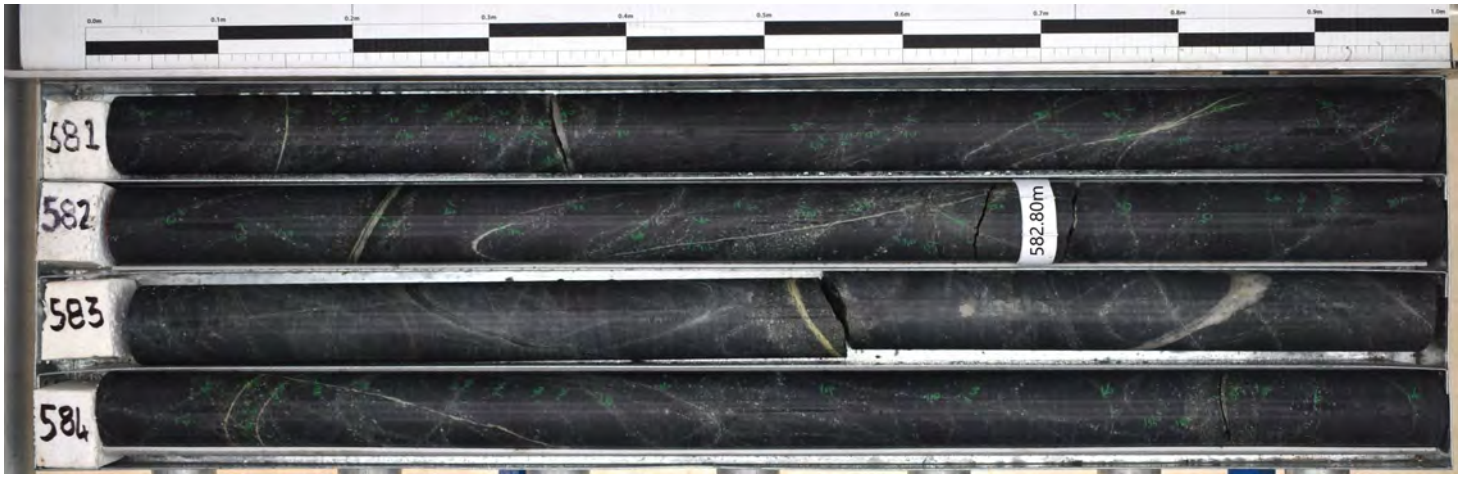
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 78/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:32 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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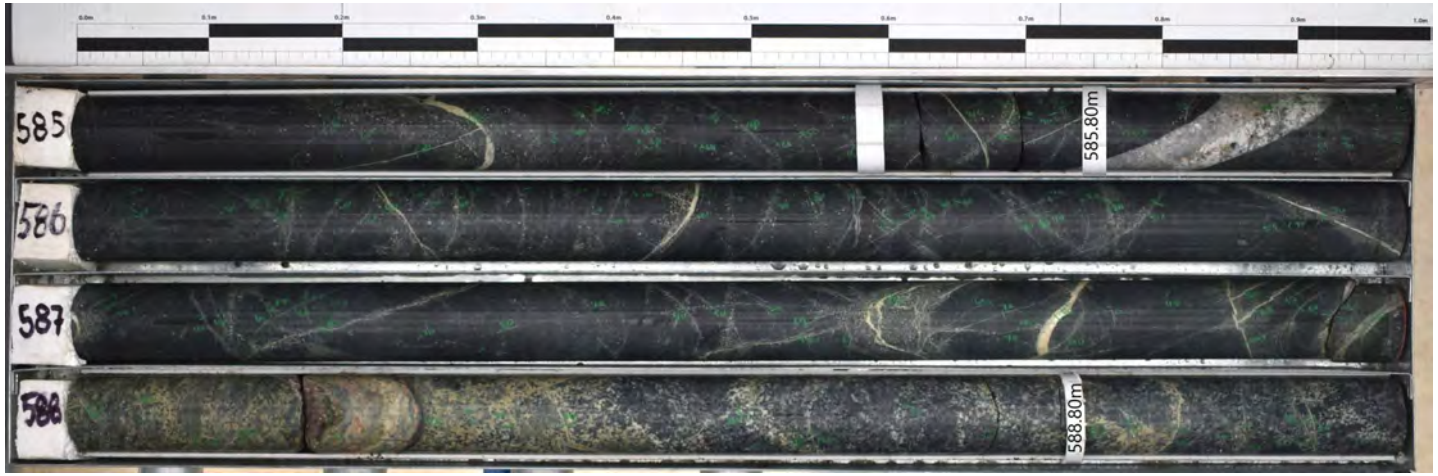
PointID : BHUA-05 Depth Range: 577.00 - 581.00 m



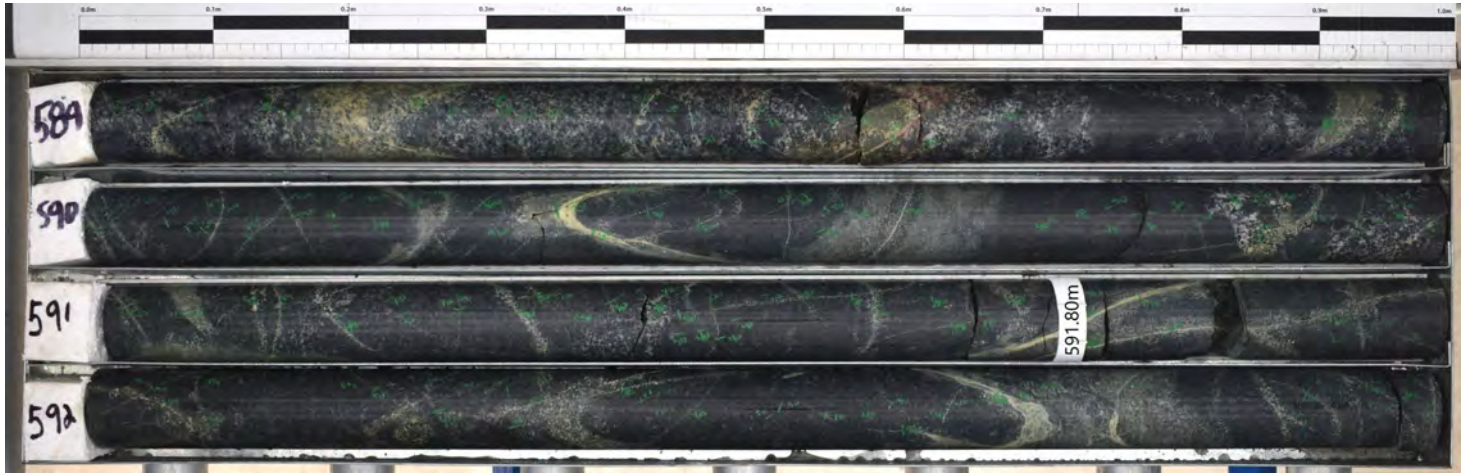
PointID : BHUA-05 Depth Range: 581.00 - 585.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 79/119

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PointID : BHUA-05 Depth Range: 585.00 - 589.00 m



PointID : BHUA-05 Depth Range: 589.00 - 593.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 80/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:35 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 593.00 - 597.00 m

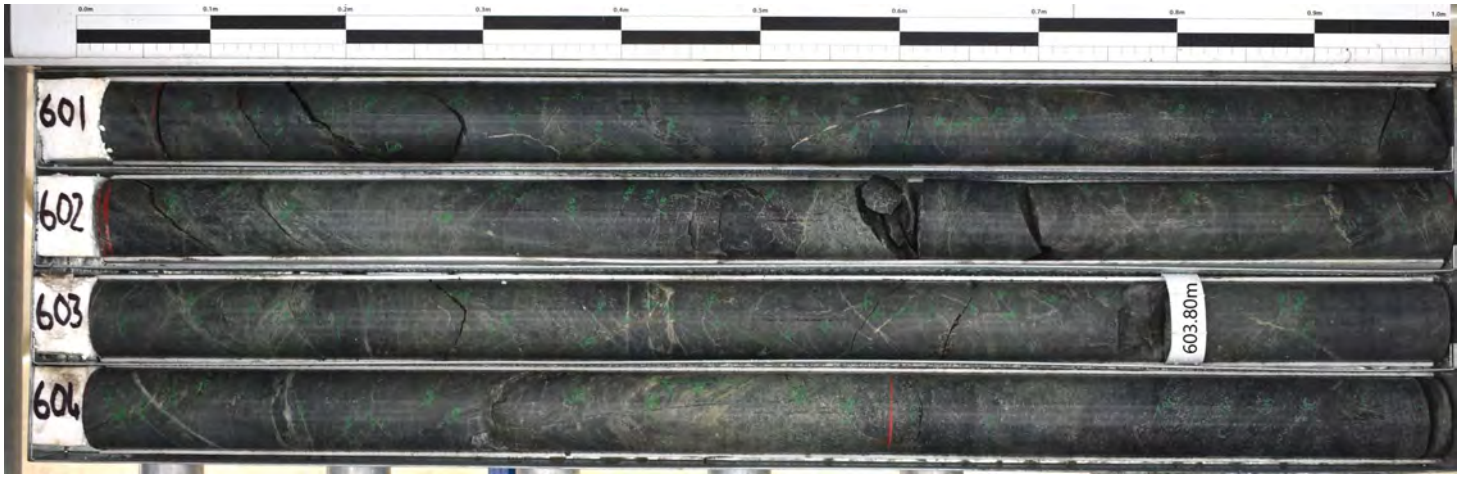


PointID : BHUA-05 Depth Range: 597.00 - 601.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 81/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:35 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 601.00 - 605.00 m



PointID : BHUA-05 Depth Range: 605.00 - 609.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 82/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:35 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 609.00 - 613.00 m

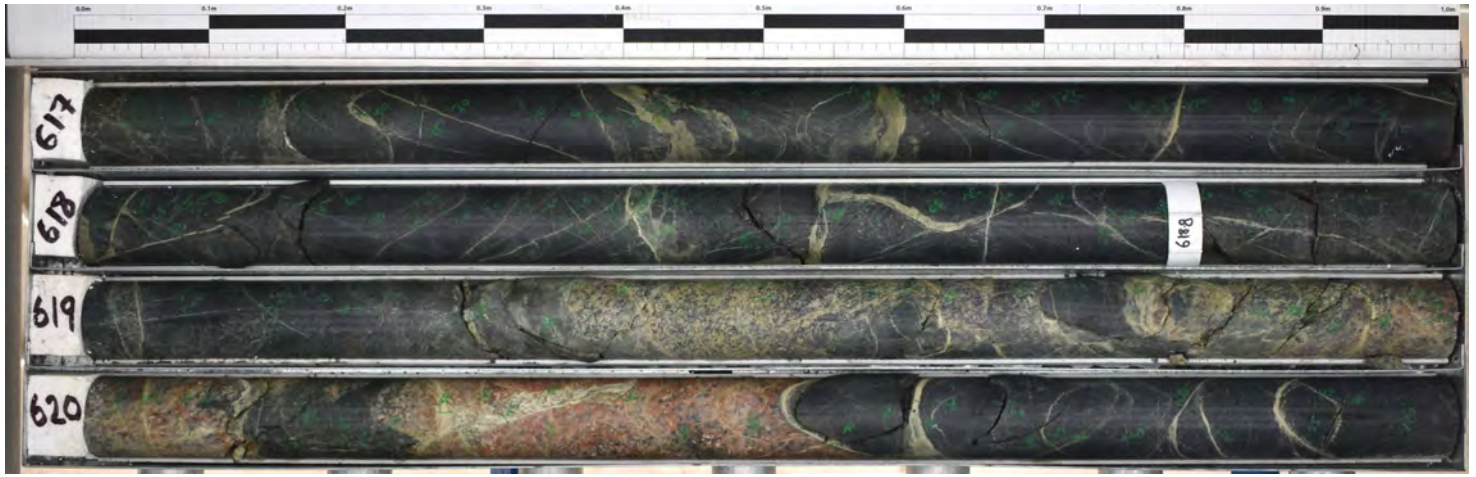


PointID : BHUA-05 Depth Range: 613.00 - 617.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 83/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:35 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 617.00 - 621.00 m

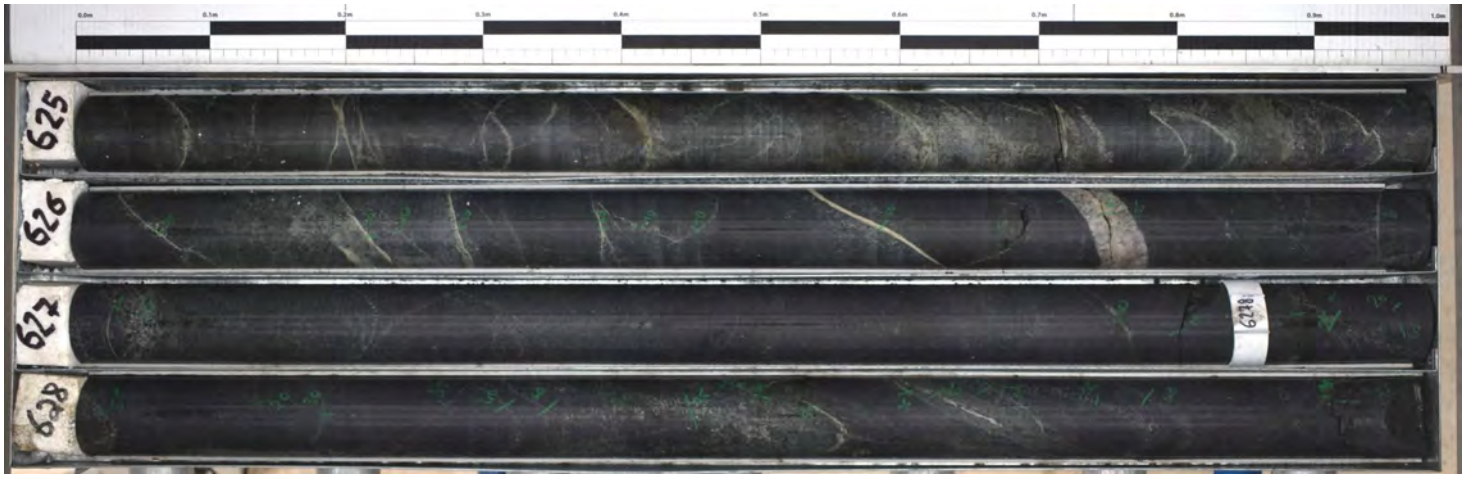


PointID : BHUA-05 Depth Range: 621.00 - 625.00 m

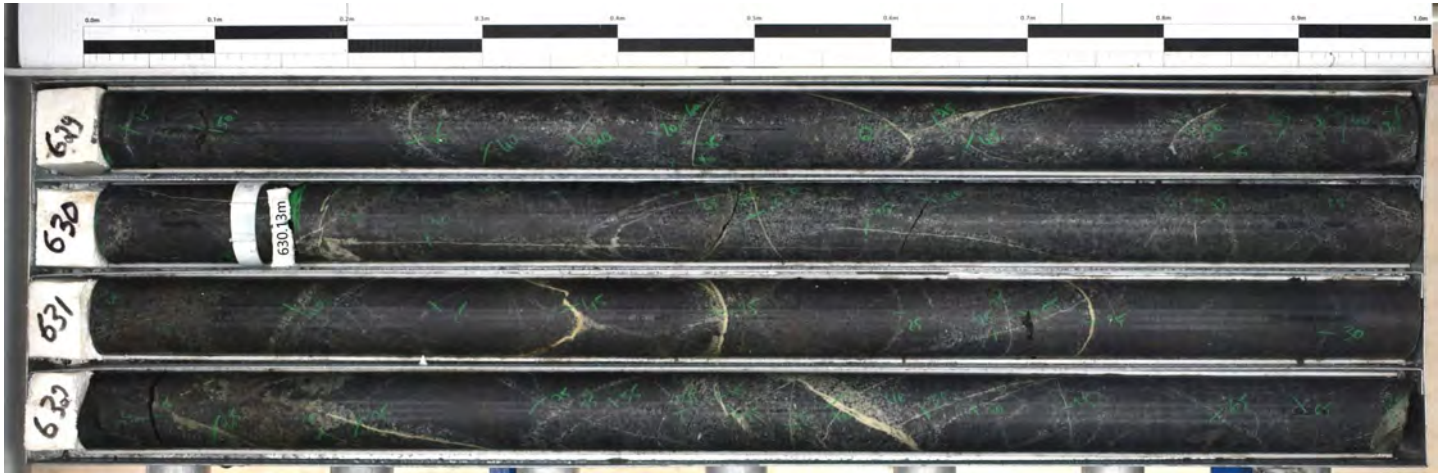
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 84/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:36 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 625.00 - 629.00 m



PointID : BHUA-05 Depth Range: 629.00 - 633.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 85/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:36 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 633.00 - 637.00 m



PointID : BHUA-05 Depth Range: 637.00 - 641.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 86/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:36 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 641.00 - 645.00 m



PointID : BHUA-05 Depth Range: 645.00 - 649.00 m

wsp

TITLE

Queensland Hydro
Netherdale/Dalrymple Heights
Pioneer-Burdekin PHES
Core photo - BHUA-05

DRAWN RC	DATE 29/11/2024
CHECKED GEM	DATE 4/12/2024
SCALE Not To Scale	A4
PROJECT No PS138693	FIGURE No 87/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:36 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 649.00 - 653.00 m



PointID : BHUA-05 Depth Range: 653.00 - 657.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 88/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:36 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 657.00 - 661.00 m

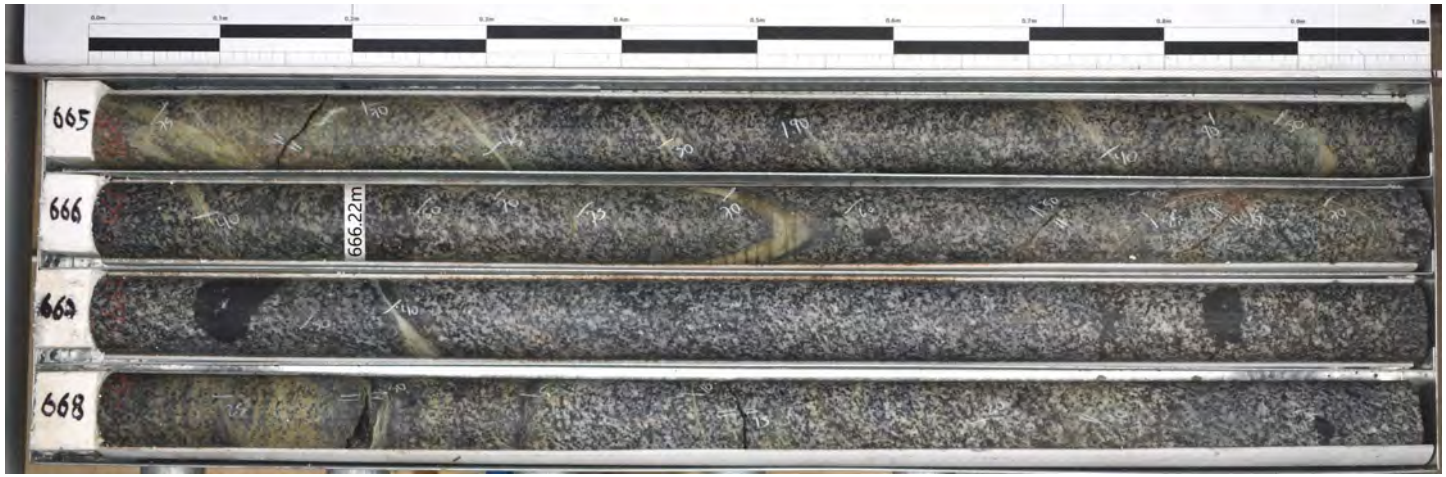


PointID : BHUA-05 Depth Range: 661.00 - 665.00 m

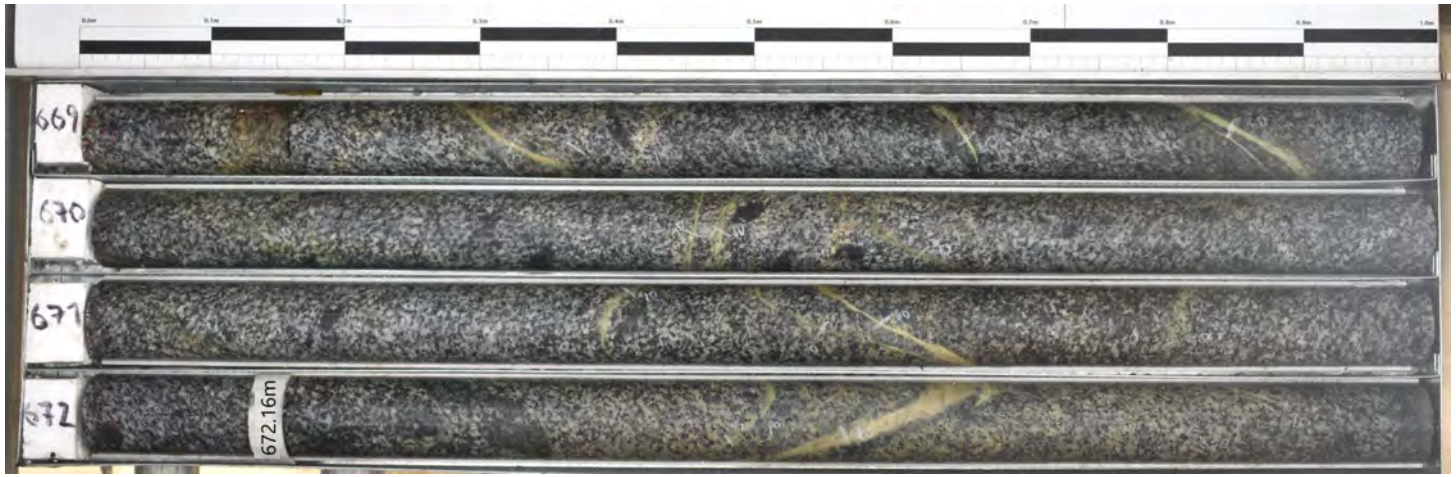
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 89/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:36 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 665.00 - 669.00 m



PointID : BHUA-05 Depth Range: 669.00 - 673.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 90/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:36 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 673.00 - 677.00 m



PointID : BHUA-05 Depth Range: 677.00 - 681.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 91/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:36 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 681.00 - 685.00 m



PointID : BHUA-05 Depth Range: 685.00 - 689.00 m

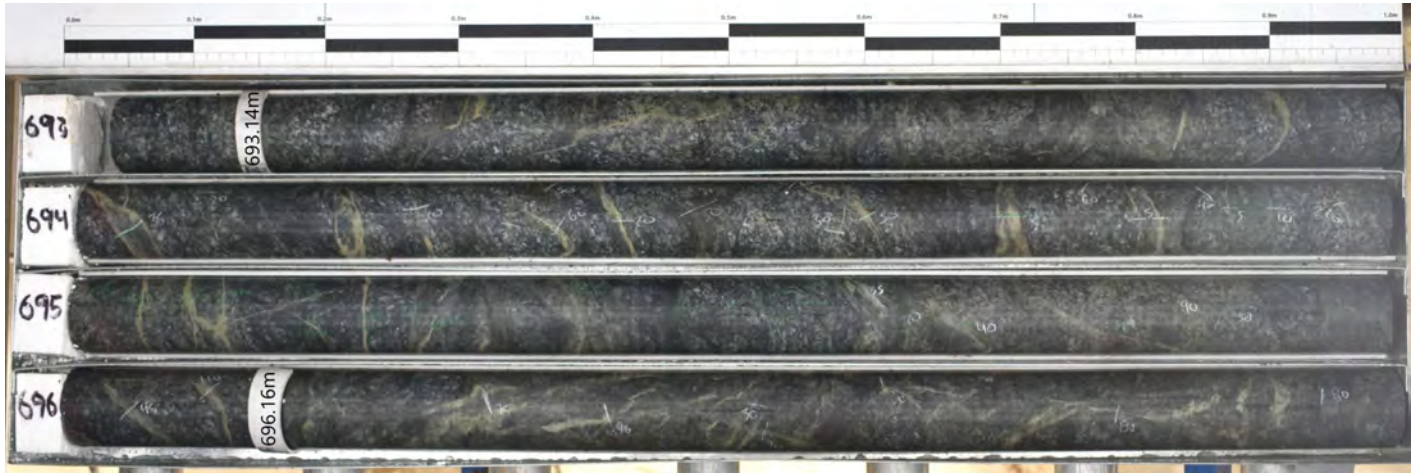
wsp	TITLE Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN RC	DATE 29/11/2024
		CHECKED GEM	DATE 4/12/2024
		SCALE Not To Scale	A4
		PROJECT No PS138693	FIGURE No 92/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:36 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 689.00 - 693.00 m

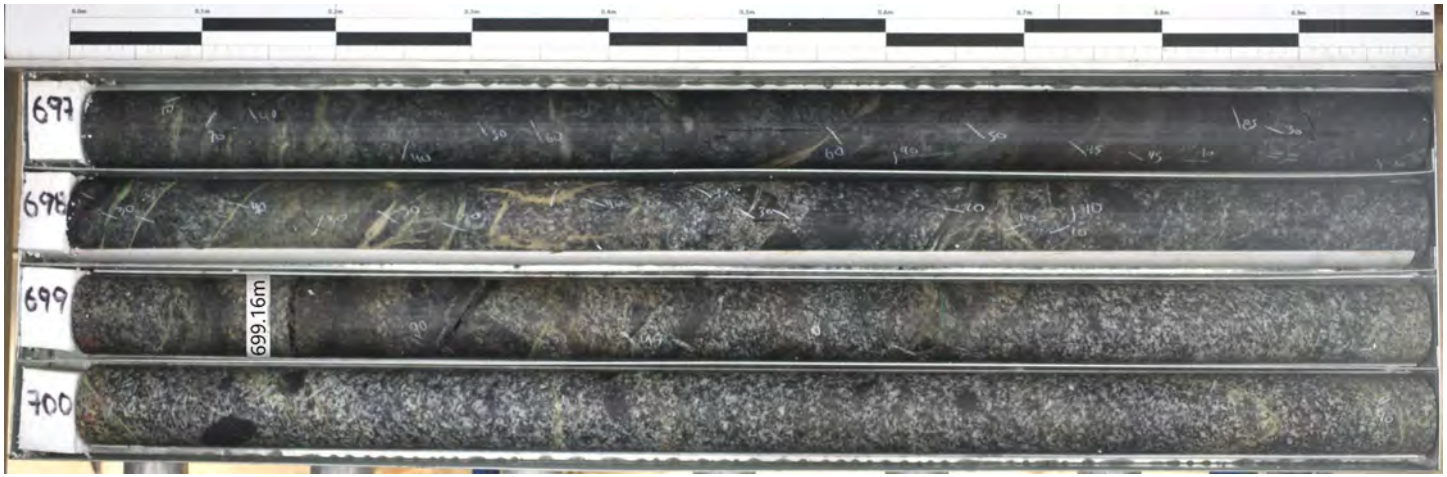


PointID : BHUA-05 Depth Range: 693.00 - 697.00 m

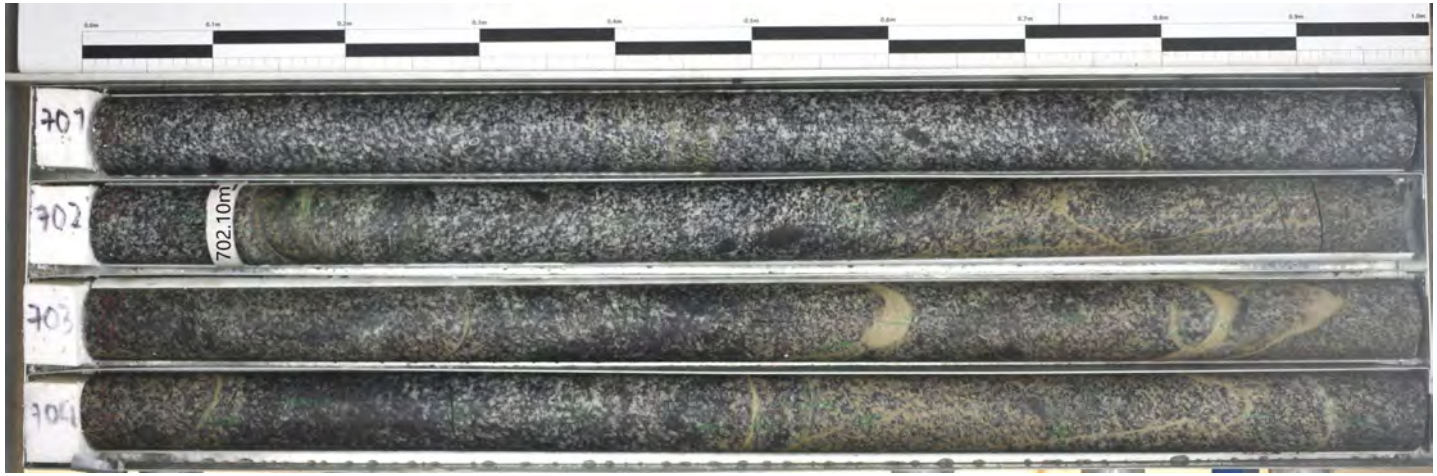
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 93/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:36 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 697.00 - 701.00 m



PointID : BHUA-05 Depth Range: 701.00 - 705.00 m

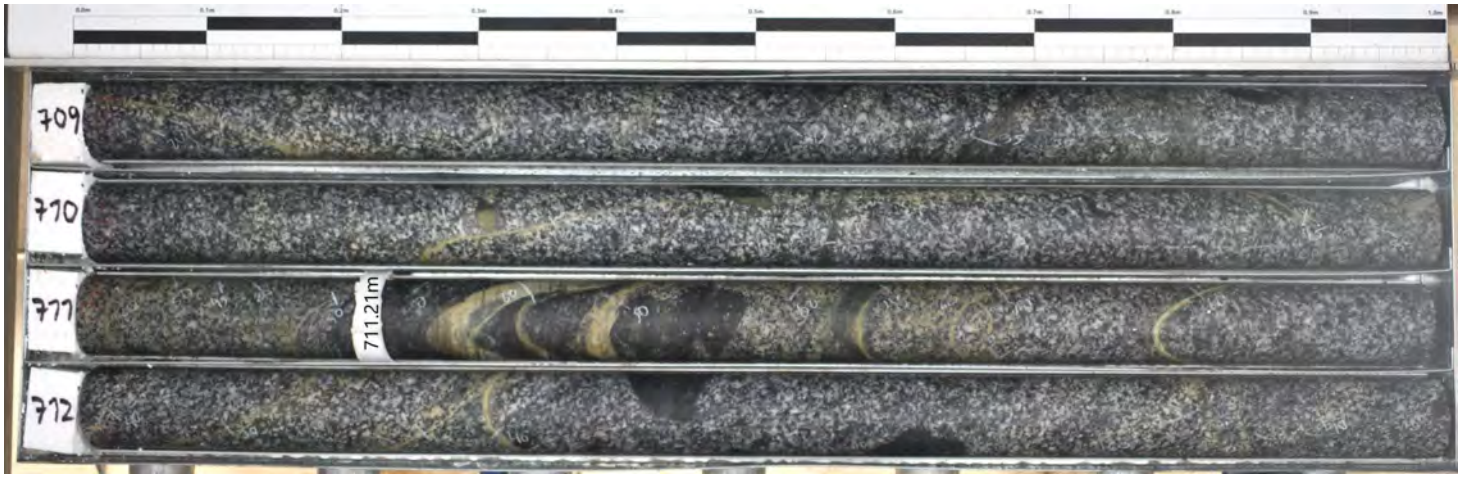
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 94/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:37 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 705.00 - 709.00 m



PointID : BHUA-05 Depth Range: 709.00 - 713.00 m

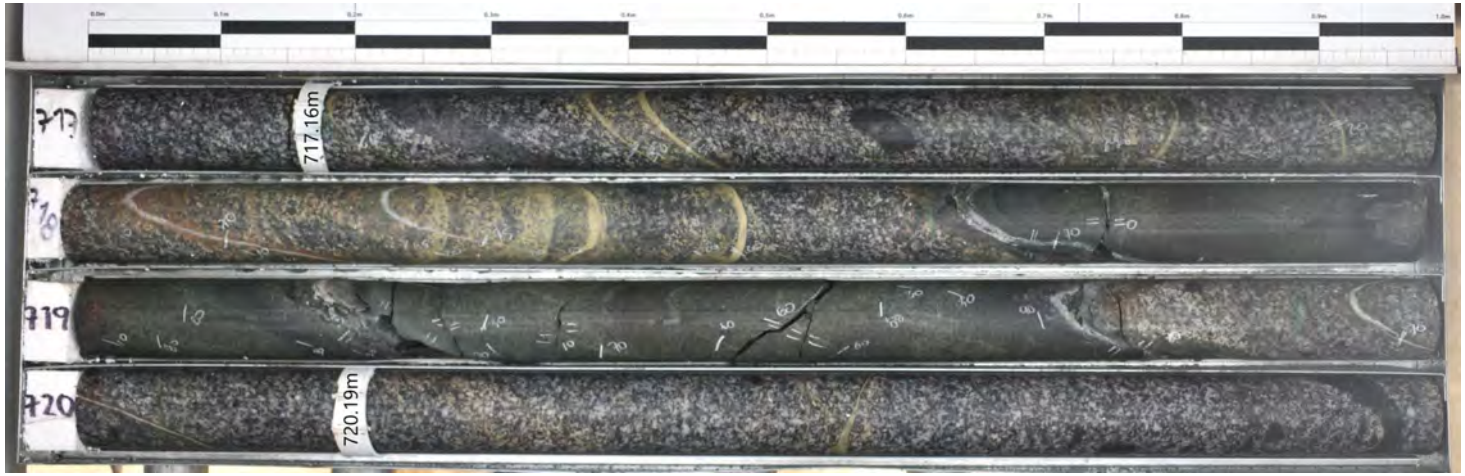
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 95/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:37 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 713.00 - 717.00 m



PointID : BHUA-05 Depth Range: 717.00 - 721.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 96/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:37 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 721.00 - 725.00 m



PointID : BHUA-05 Depth Range: 725.00 - 729.00 m

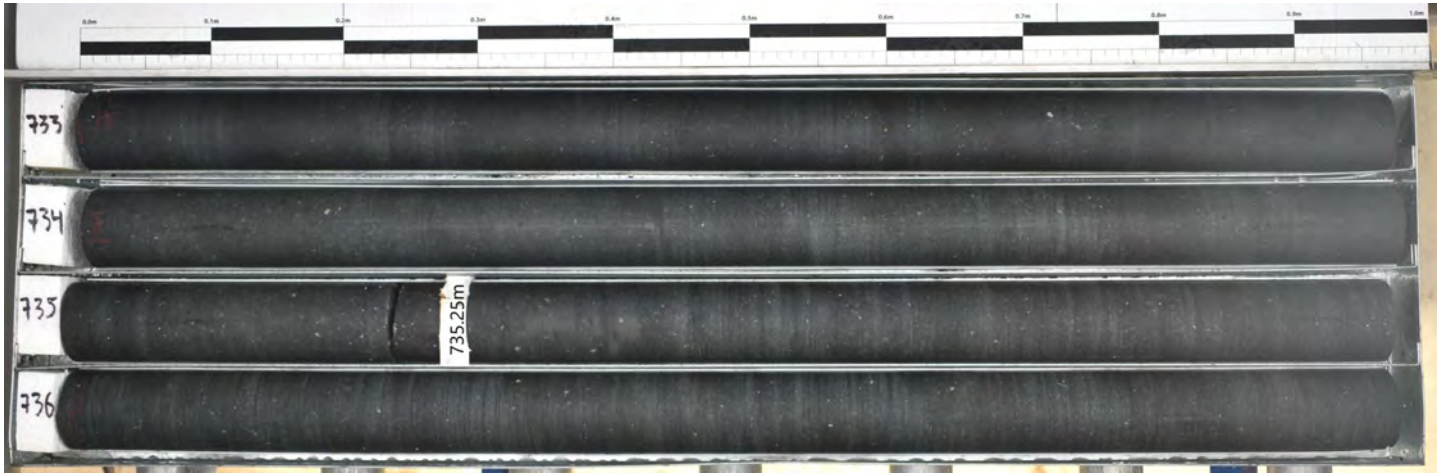
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 97/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:37 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 729.00 - 733.00 m

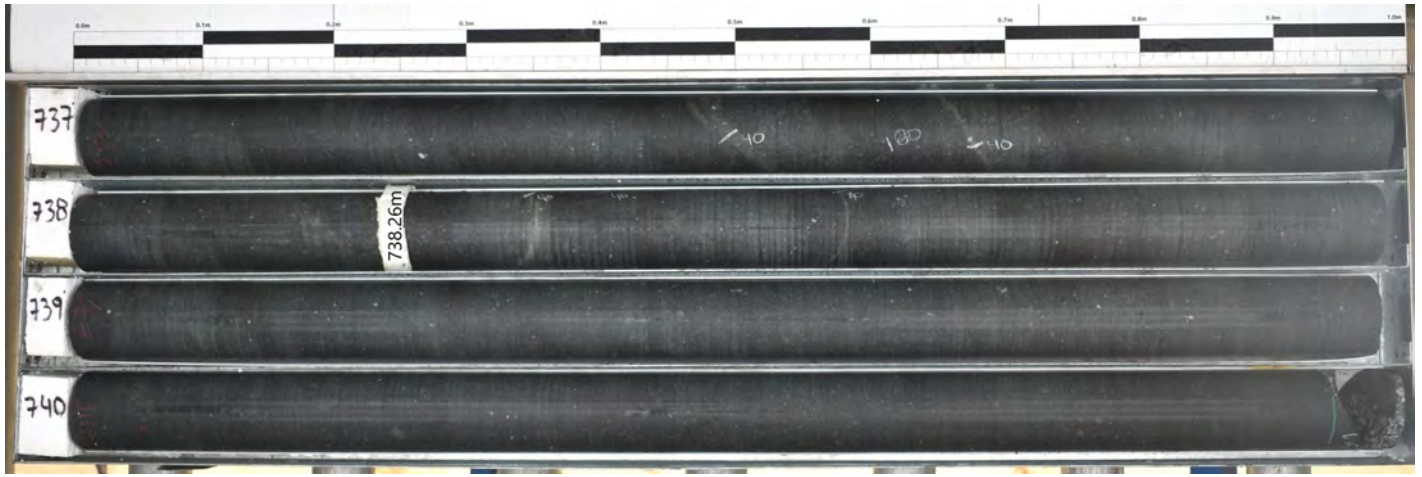


PointID : BHUA-05 Depth Range: 733.00 - 737.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 98/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:37 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 737.00 - 741.00 m



PointID : BHUA-05 Depth Range: 741.00 - 745.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 99/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:37 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 745.00 - 749.00 m

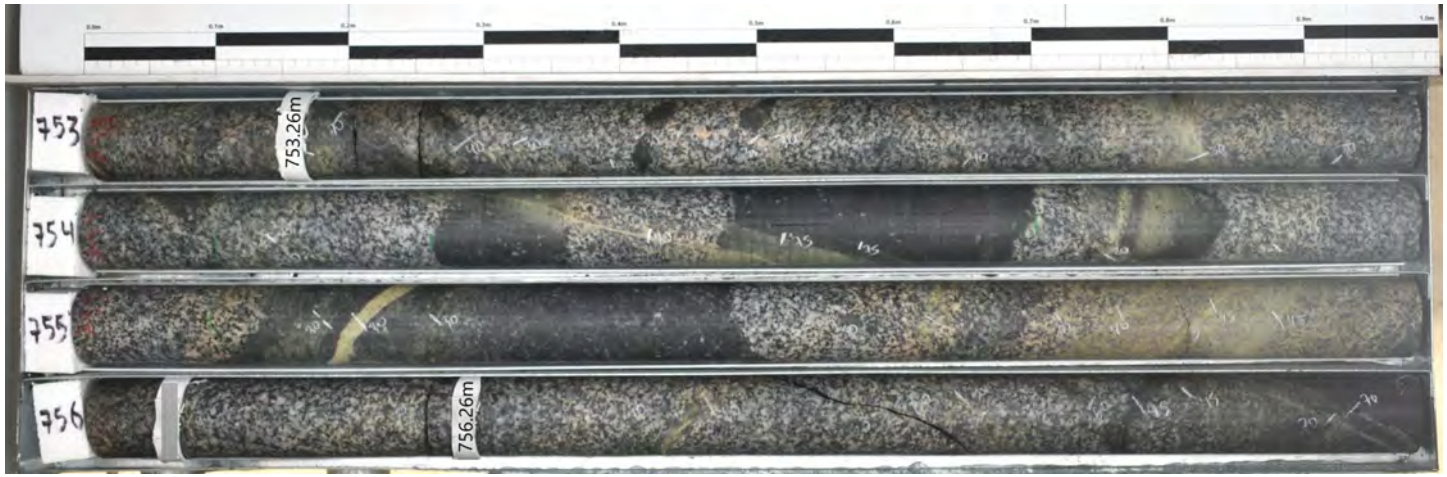


PointID : BHUA-05 Depth Range: 749.00 - 753.00 m

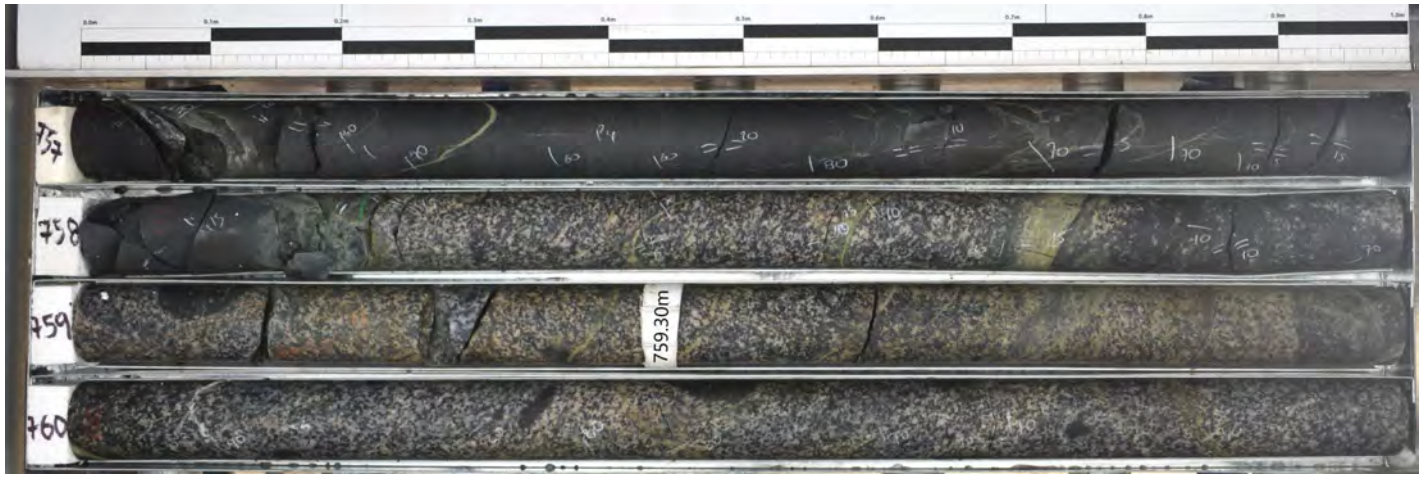
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 100/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:39 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 753.00 - 757.00 m



PointID : BHUA-05 Depth Range: 757.00 - 761.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 101/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:39 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 761.00 - 765.00 m

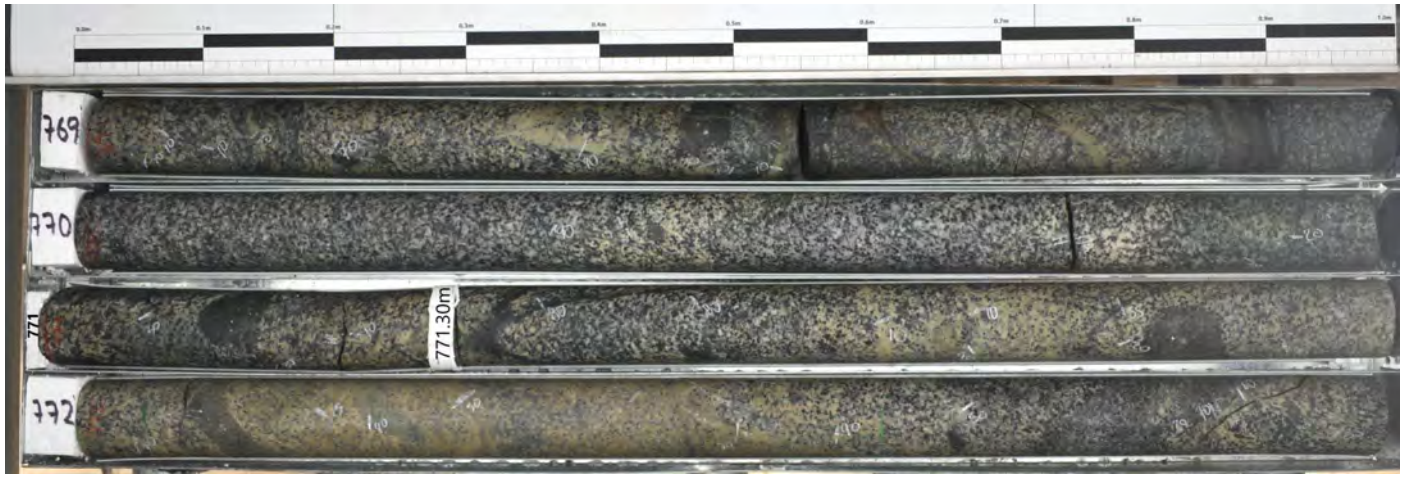


PointID : BHUA-05 Depth Range: 765.00 - 769.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 102/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:39 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 769.00 - 773.00 m



PointID : BHUA-05 Depth Range: 773.00 - 777.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 103/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:39 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 777.00 - 781.00 m

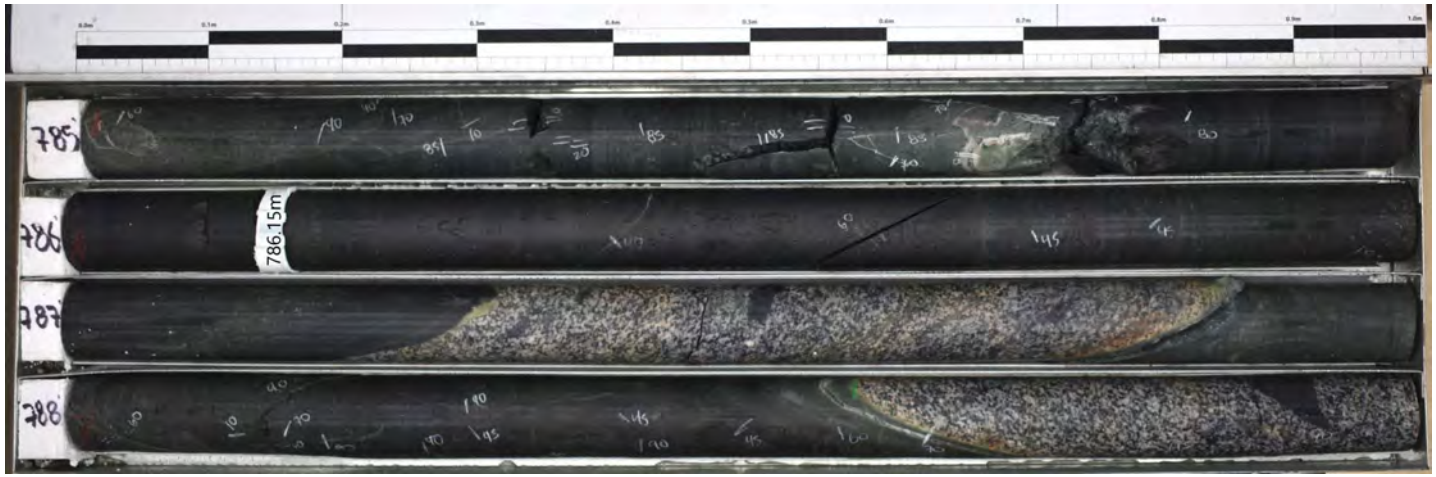


PointID : BHUA-05 Depth Range: 781.00 - 785.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 104/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:39 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 785.00 - 789.00 m



PointID : BHUA-05 Depth Range: 789.00 - 793.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 105/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:40 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 793.00 - 797.00 m

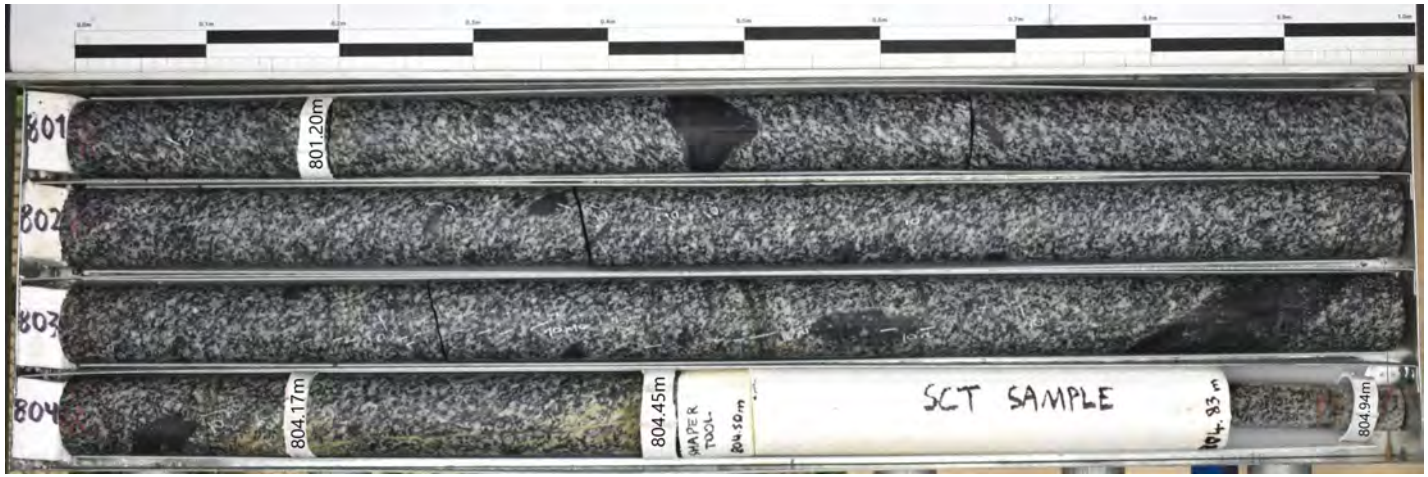


PointID : BHUA-05 Depth Range: 797.00 - 801.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 106/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:40 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 801.00 - 805.00 m

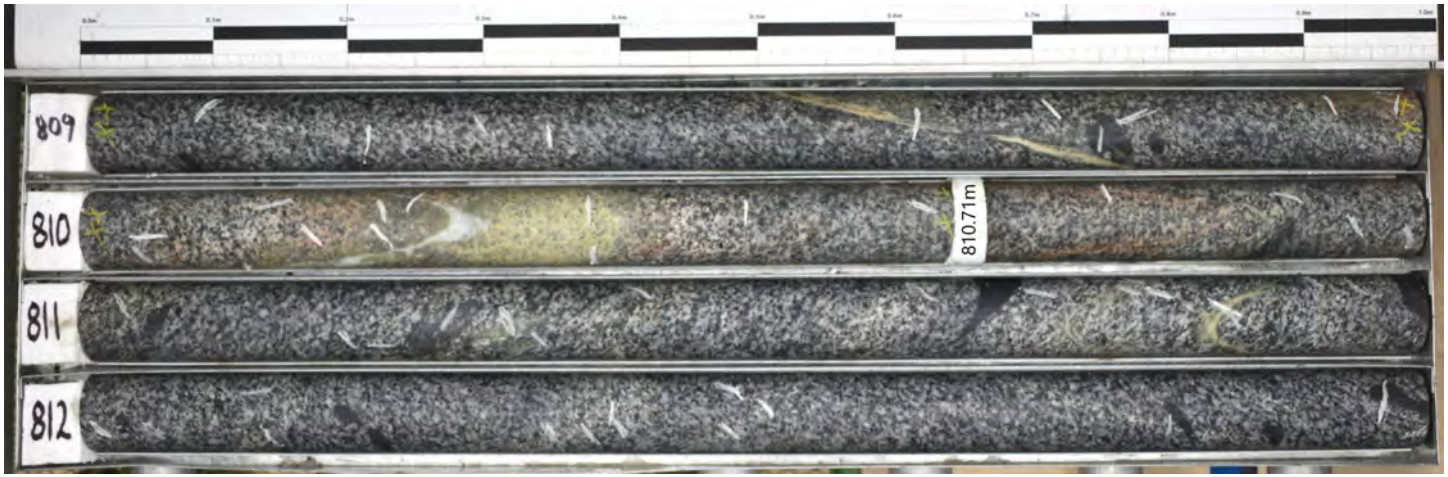


PointID : BHUA-05 Depth Range: 805.00 - 809.00 m

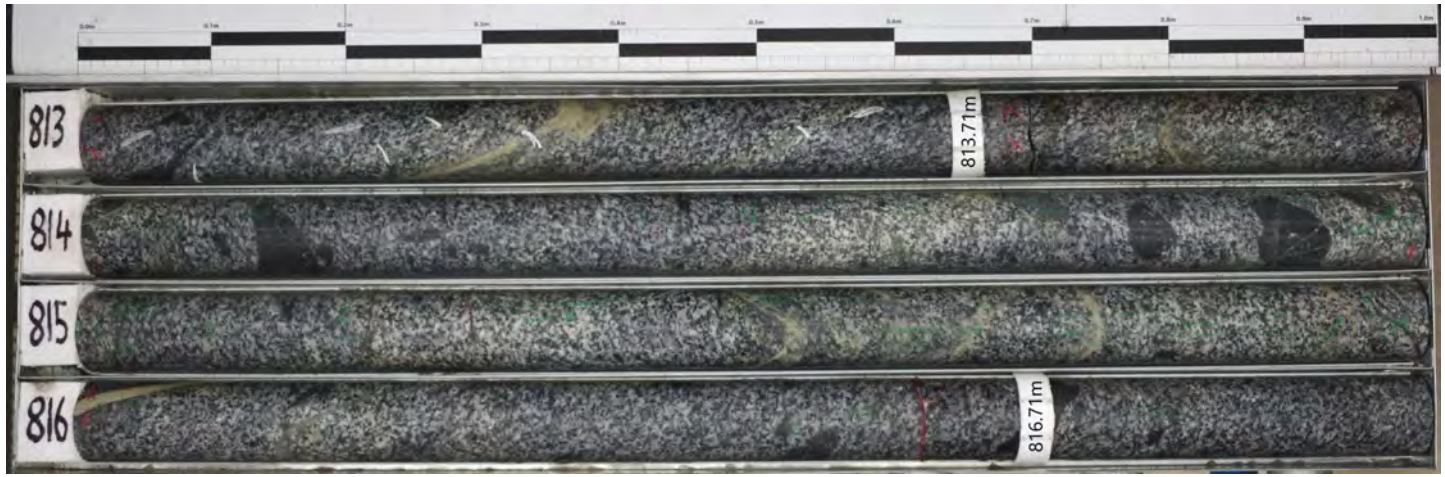
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 107/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:40 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 809.00 - 813.00 m

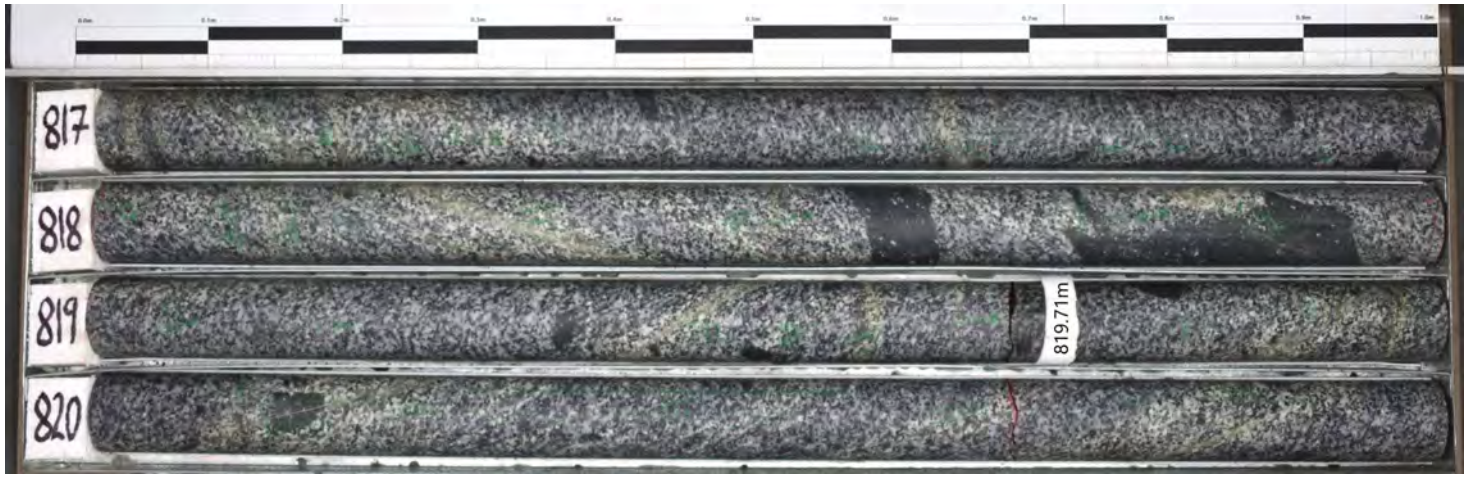


PointID : BHUA-05 Depth Range: 813.00 - 817.00 m

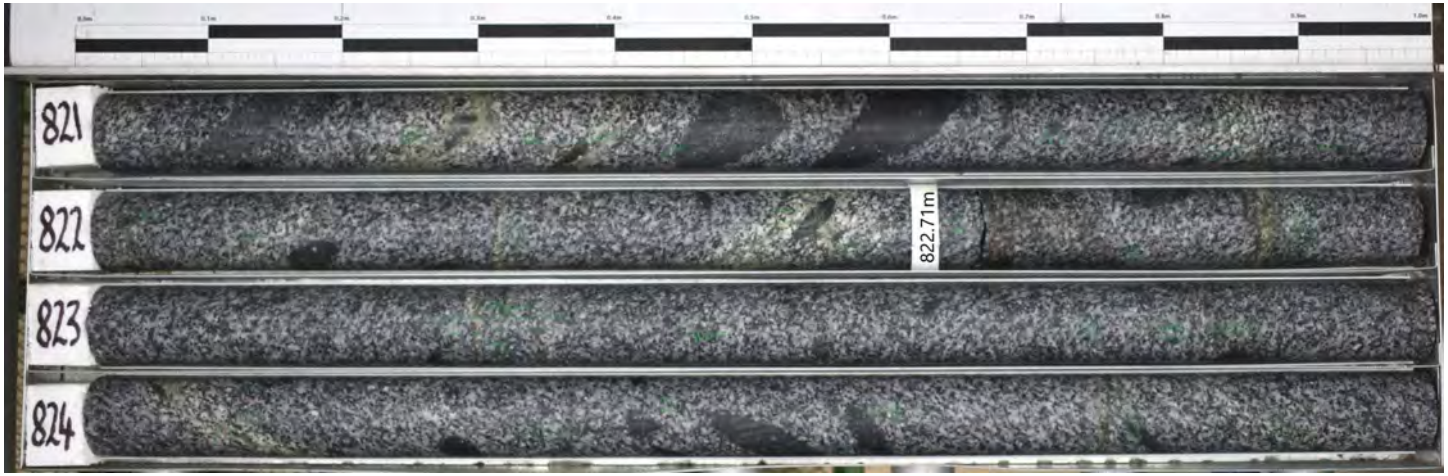
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 108/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:40 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 817.00 - 821.00 m



PointID : BHUA-05 Depth Range: 821.00 - 825.00 m

wsp

TITLE

Queensland Hydro
Netherdale/Dalrymple Heights
Pioneer-Burdekin PHES
Core photo - BHUA-05

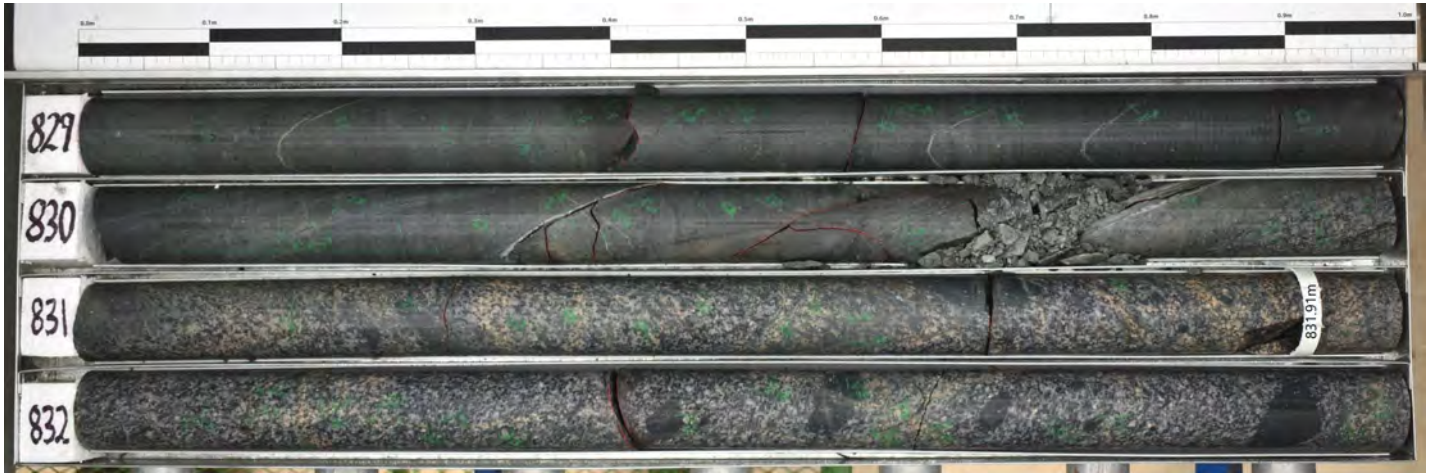
DRAWN	RC	DATE	29/11/2024
CHECKED	GEM	DATE	4/12/2024
SCALE	Not To Scale		A4
PROJECT No	PS138693	FIGURE No	109/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:40 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 825.00 - 829.00 m

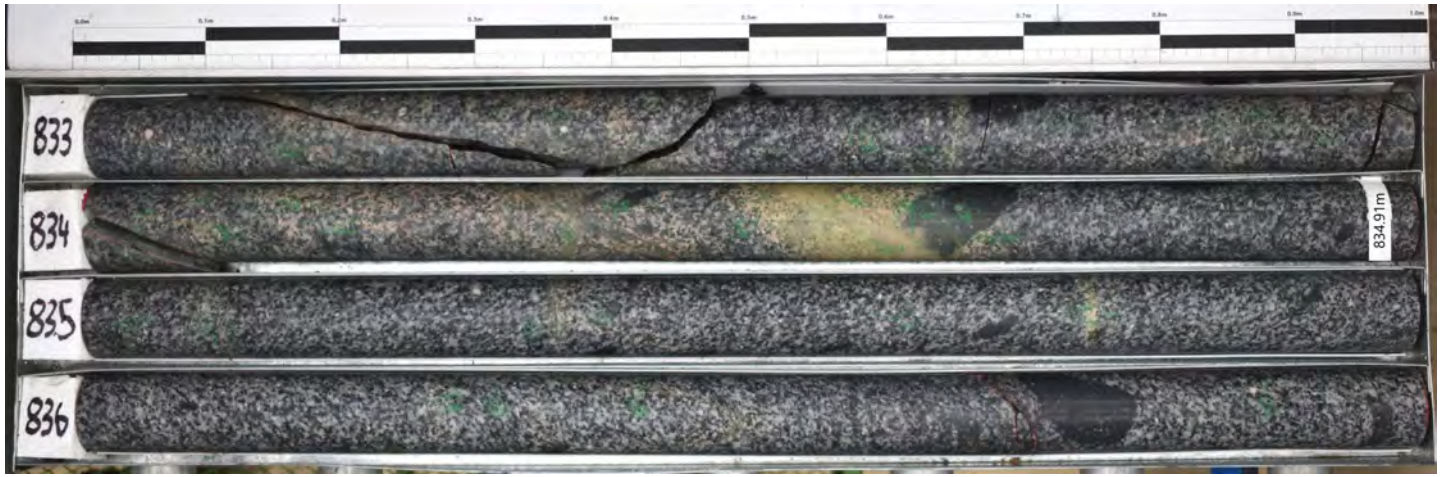


PointID : BHUA-05 Depth Range: 829.00 - 833.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 110/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:40 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 833.00 - 837.00 m



PointID : BHUA-05 Depth Range: 837.00 - 841.00 m

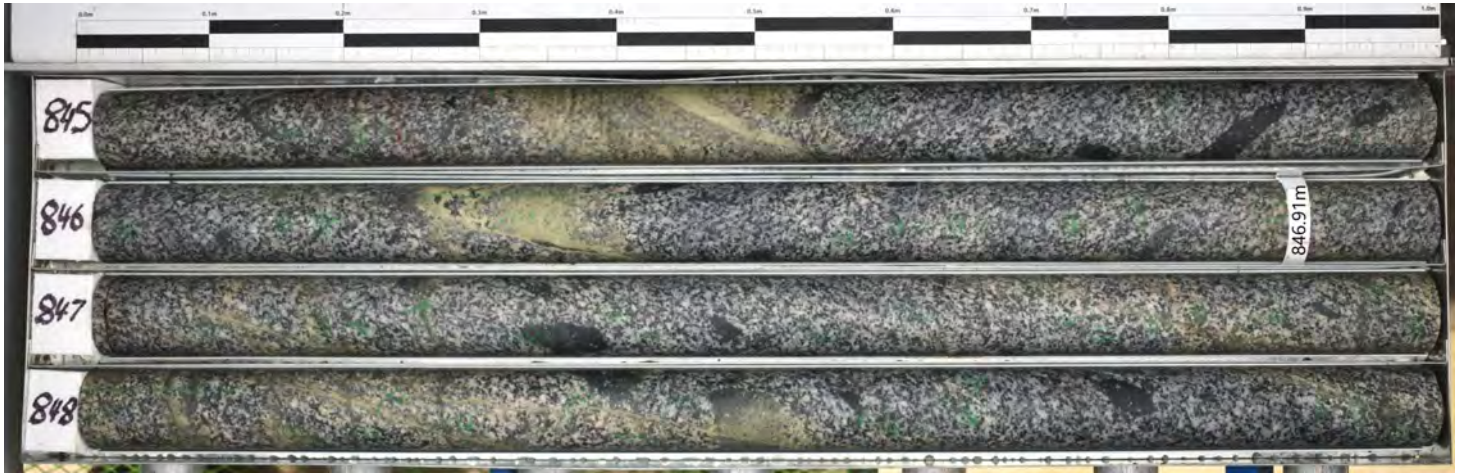
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 111/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:40 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 841.00 - 845.00 m

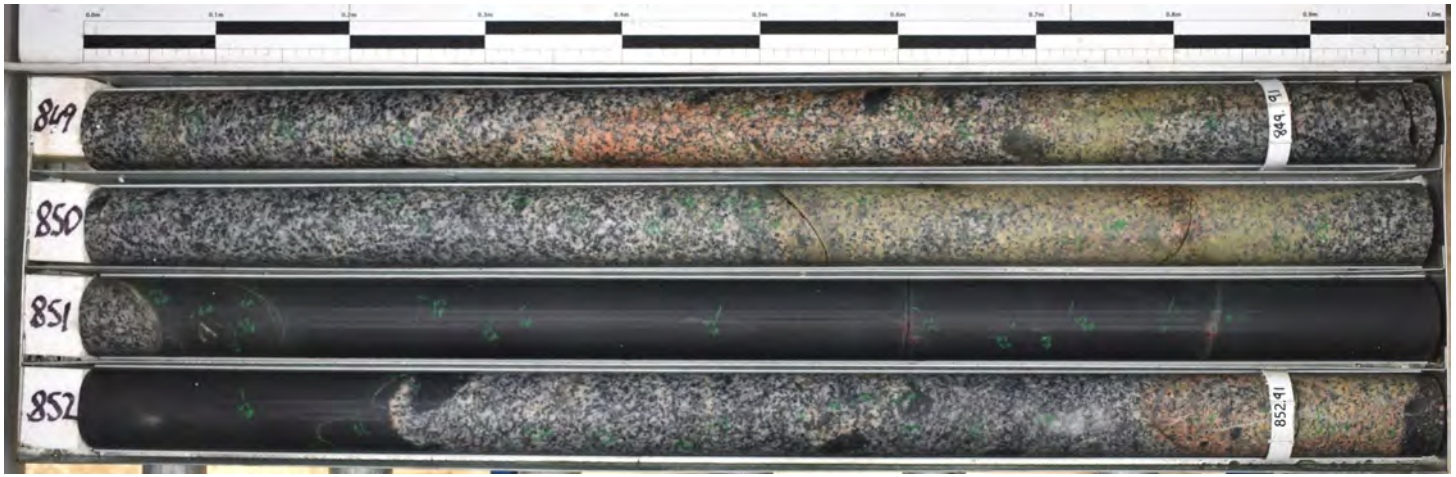


PointID : BHUA-05 Depth Range: 845.00 - 849.00 m

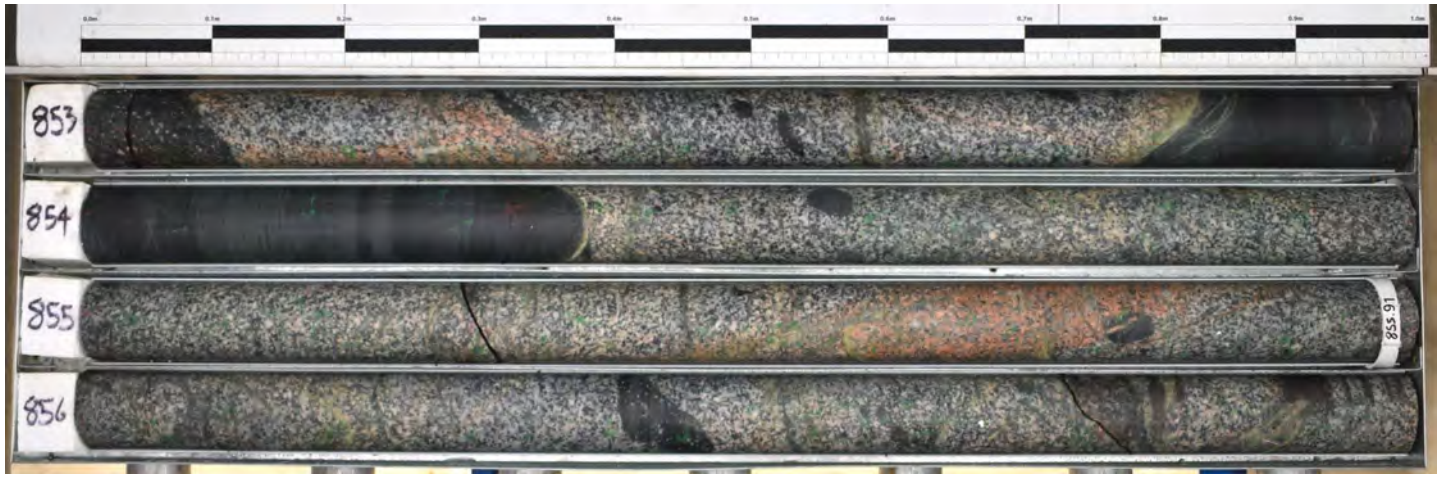
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 112/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:40 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 849.00 - 853.00 m

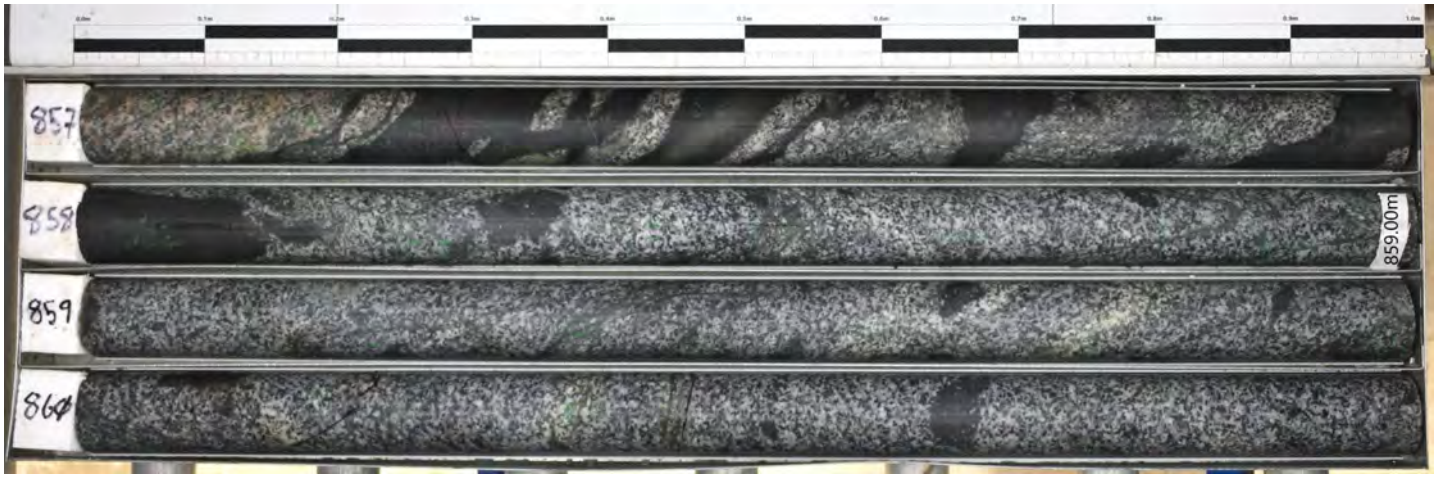


PointID : BHUA-05 Depth Range: 853.00 - 857.00 m

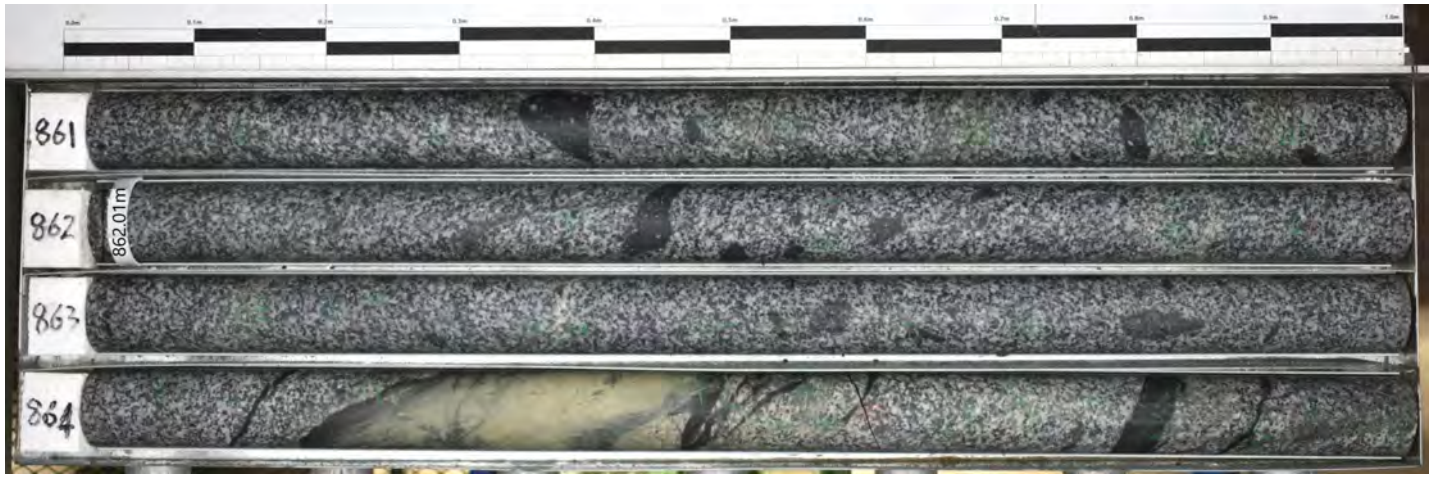
wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 113/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:40 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 857.00 - 861.00 m



PointID : BHUA-05 Depth Range: 861.00 - 865.00 m

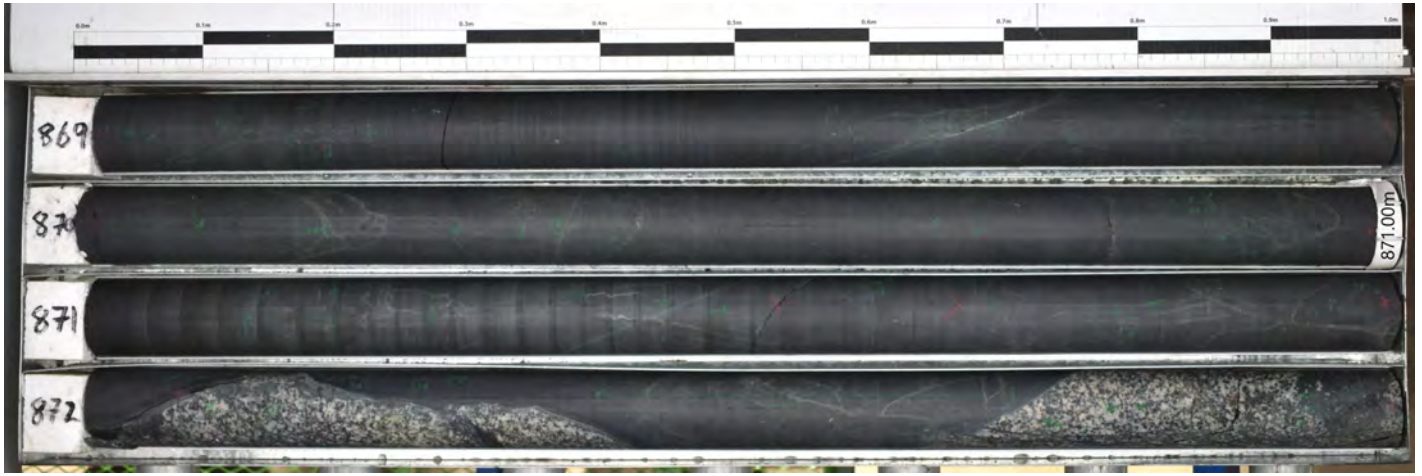
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		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 114/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:41 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 865.00 - 869.00 m

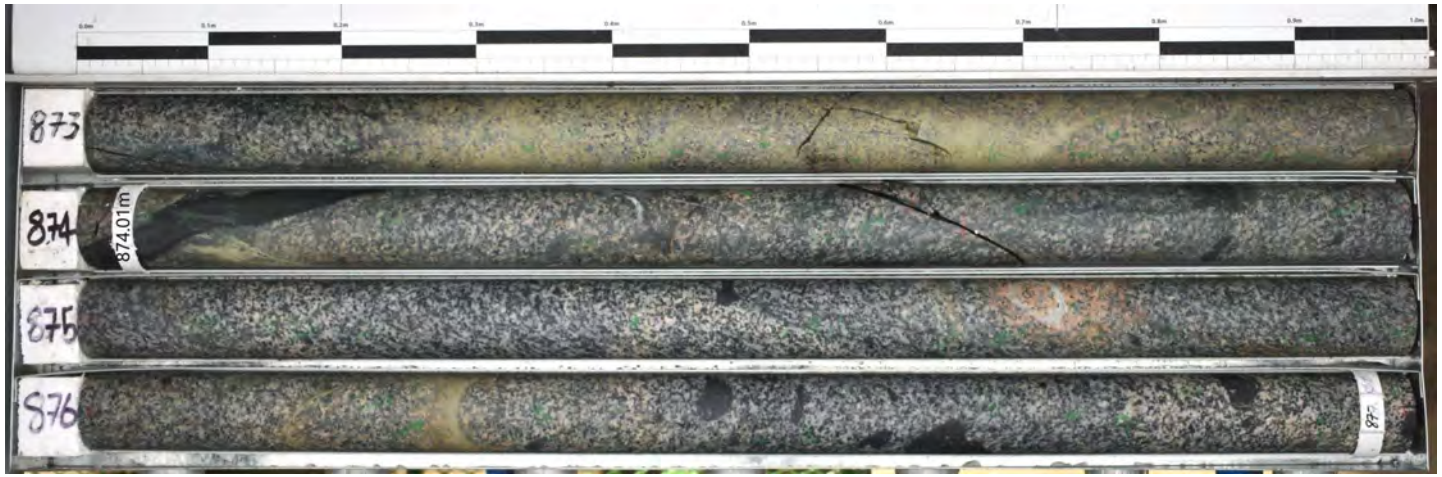


PointID : BHUA-05 Depth Range: 869.00 - 873.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 115/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:41 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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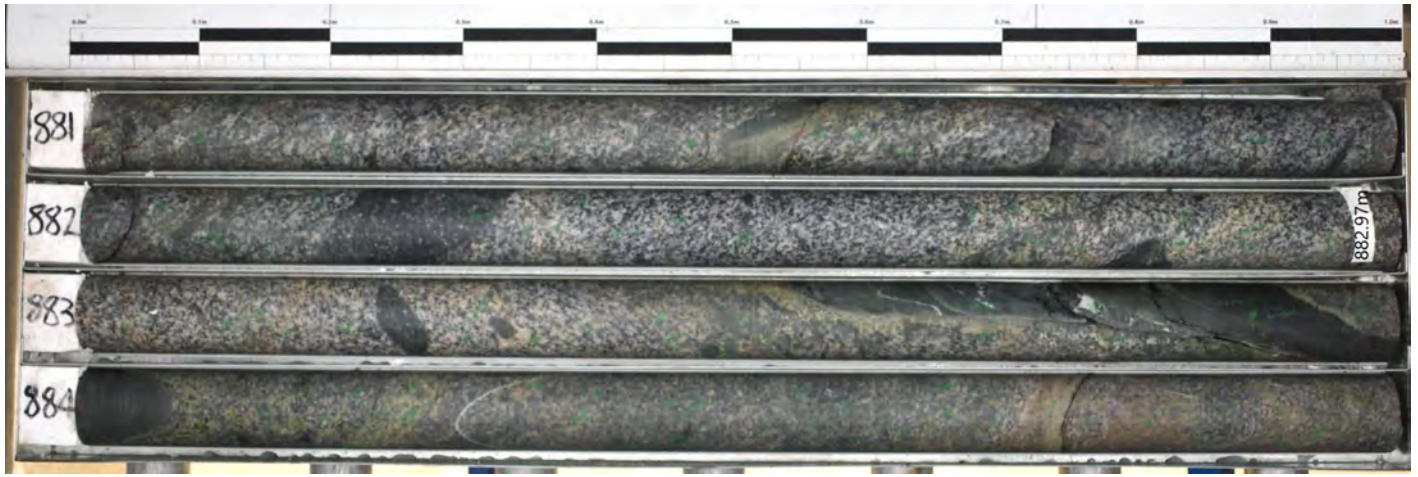
PointID : BHUA-05 Depth Range: 873.00 - 877.00 m



PointID : BHUA-05 Depth Range: 877.00 - 881.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 116/119

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PointID : BHUA-05 Depth Range: 881.00 - 885.00 m



PointID : BHUA-05 Depth Range: 885.00 - 889.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 117/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:41 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 889.00 - 893.00 m

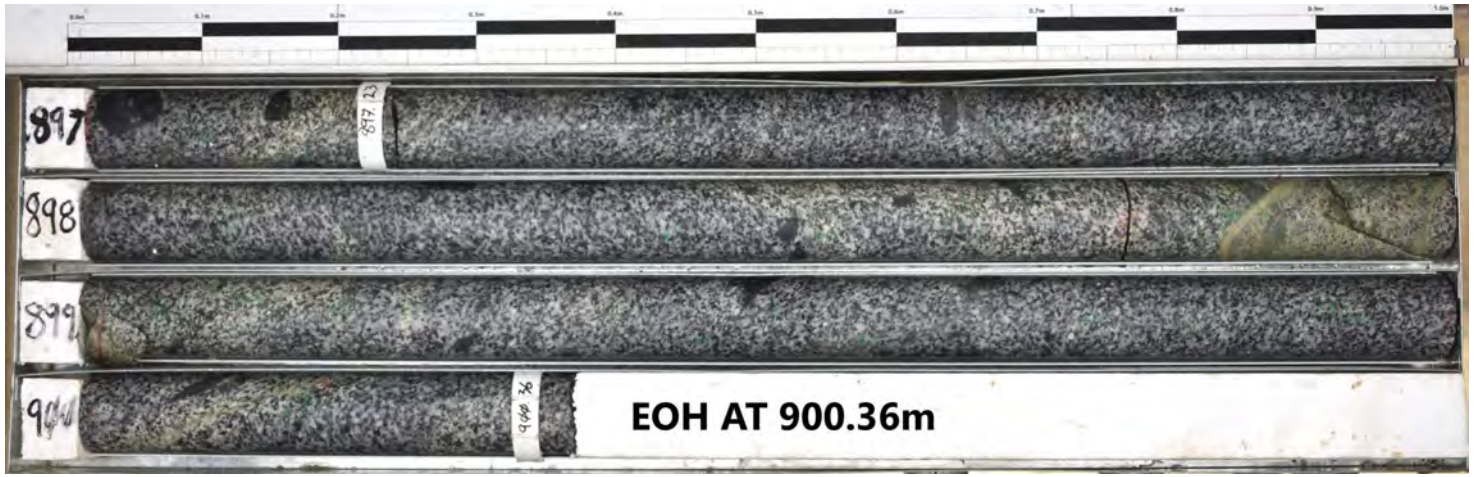


PointID : BHUA-05 Depth Range: 893.00 - 897.00 m

wsp	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 118/119

PBPHES LIB_REVC.GLB GrfcTbl PHOTO CORE 2 PER PAGE VERT A4L BHUA-05_241114_RC.GPJ <<DrawingFile>> 2024/12/4 17:41 10.03.00.09 Datgel Lab and In Situ Tool - DGD | Lib: WSP 5.07.2 2023-10-30 Prj: WSP 5.04.1 2023-06-14

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PointID : BHUA-05 Depth Range: 897.00 - 900.36 m

	TITLE: Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHUA-05	DRAWN: RC	DATE: 29/11/2024
		CHECKED: GEM	DATE: 4/12/2024
		SCALE: Not To Scale	A4
		PROJECT No: PS138693	FIGURE No: 119/119

BHUA-05 Structural Logs

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WSP Australia Pty Limited
Level 12, 900 Ann Street
Fortitude Valley
QLD 4006
Australia

GEOPHYSICAL RECORD OF BOREHOLE: BHUA-05

PROJECT: Pioneer-Burdekin PHES JOB # PS138693

CLIENT: Queensland Hydro DATE: 05-Sept-2024

BOREHOLE DETAILS

LOCATION:	Upper Reservoir	BH DEPTH:	900.36 m
EASTING:	659313.15 m	BH DIAMETER:	HQ (96 mm)
NORTHING:	7666351.20 m	BH AZIMUTH:	-87°
ELEVATION:	878.11 m	BH PLUNGE:	233°
COORD SYSTEM:	MGA2020	CASING DEPTH:	155.3 m
LOGGING DATUM:	Ground Level	CASING TYPE:	HWT

DOCUMENT DETAILS

LOGGED BY:	GH, JH
LOGGED DATE:	27/06/2024
DRAWN BY:	SB
REVIEWED BY:	GH
FILE:	BHUA-05_Struct_RevC
LOGGED DEPTH:	900.66 m

NOTES

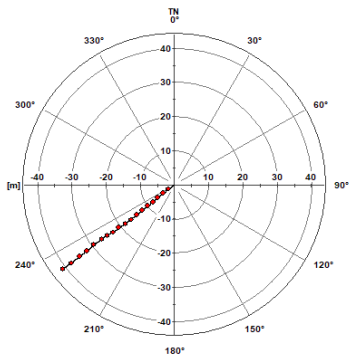
Image logs are oriented relative to borehole high side. Final structure log is oriented relative to true north using magnetic declination of 8.2° East.

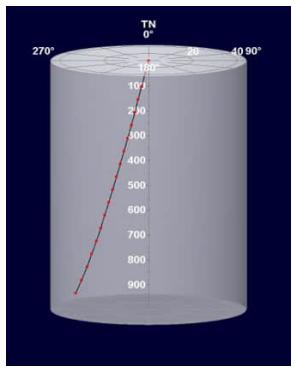
Mechanical calliper log used for structure dip corrections.

All logs zerored to ground level. Cased section assumed straight for deviation calculations.

Image logs depth-corrected using anchor points from the in-run at 899.42 m and start-finish zero depths recorded at collar. The purpose of this correction is to reduce the effect of wireline stretch during the out-run.

BOREHOLE DEVIATION

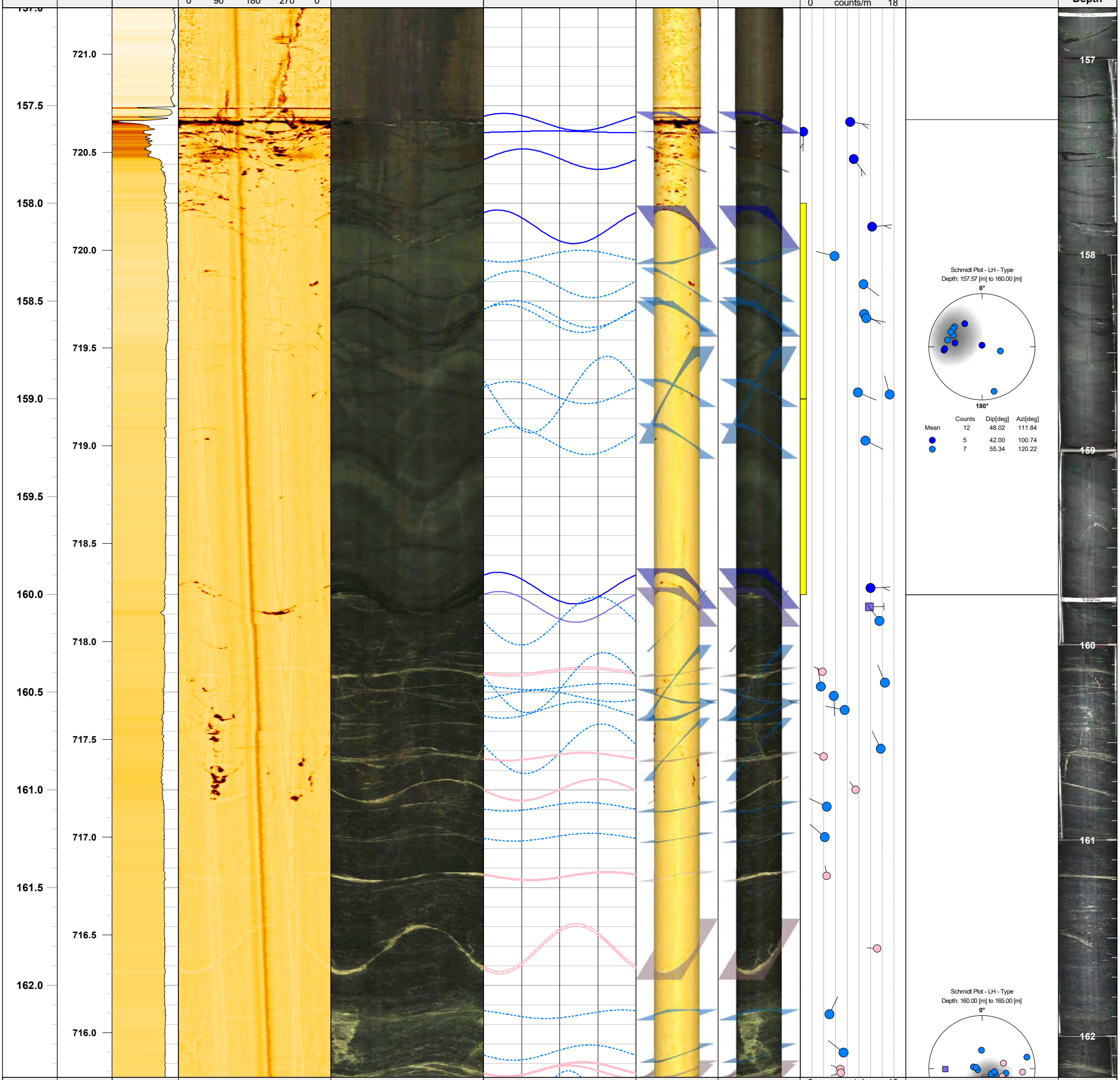




INTERPRETED STRUCTURES

Contact · Crushed Seam · Fracture Zone · Infilled Seam · Joint · Shear Seam · Sheared Surface · Shear Zone · Vein · Healed Joint

BHUA-05



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BHUA-05

Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

Depth: 162.5 – 169.5 (1m:20m) | RL m (AHD): 715.5, 715.0, 714.5, 714.0, 713.5, 713.0, 712.5, 712.0, 711.5, 711.0, 710.5, 710.0, 709.5, 709.0

Stereoplots:

180°

	Counts	Dip[deg]	Azi[deg]
Mean	40	28.24	333.96
	2	48.55	56.90
	28	29.47	336.45
	10	27.26	315.83

Schmidt Plot - LH - Type
Depth: 165.00 [m] to 170.00 [m]

0°

180°

	Counts	Dip[deg]	Azi[deg]
Mean	20	31.39	9.43
	8	27.45	18.23
	5	42.14	0.59
	6	89.83	263.08
	1	54.89	309.46

Core Depth: 163, 164, 165, 166, 167, 168, 169

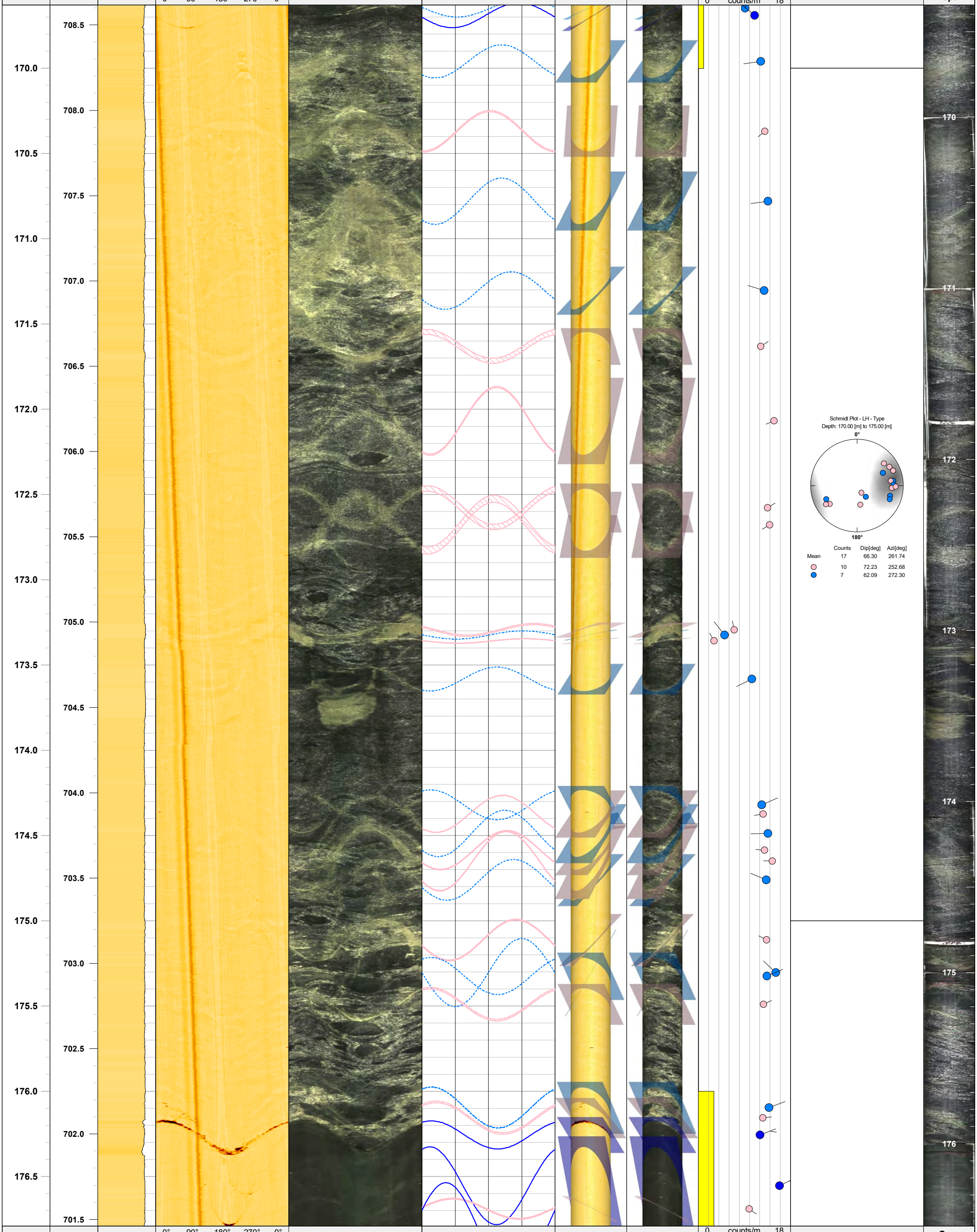
Depth		Image Logs			Structural Data					Core
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo

BHUA-05

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



Schmidt Plot - LH - Type
Depth: 170.00 [m] to 175.00 [m]

0°

180°

	Counts	Dip[deg]	Azi[deg]
Mean	17	66.30	261.74
	10	72.23	252.68
	7	62.09	272.30

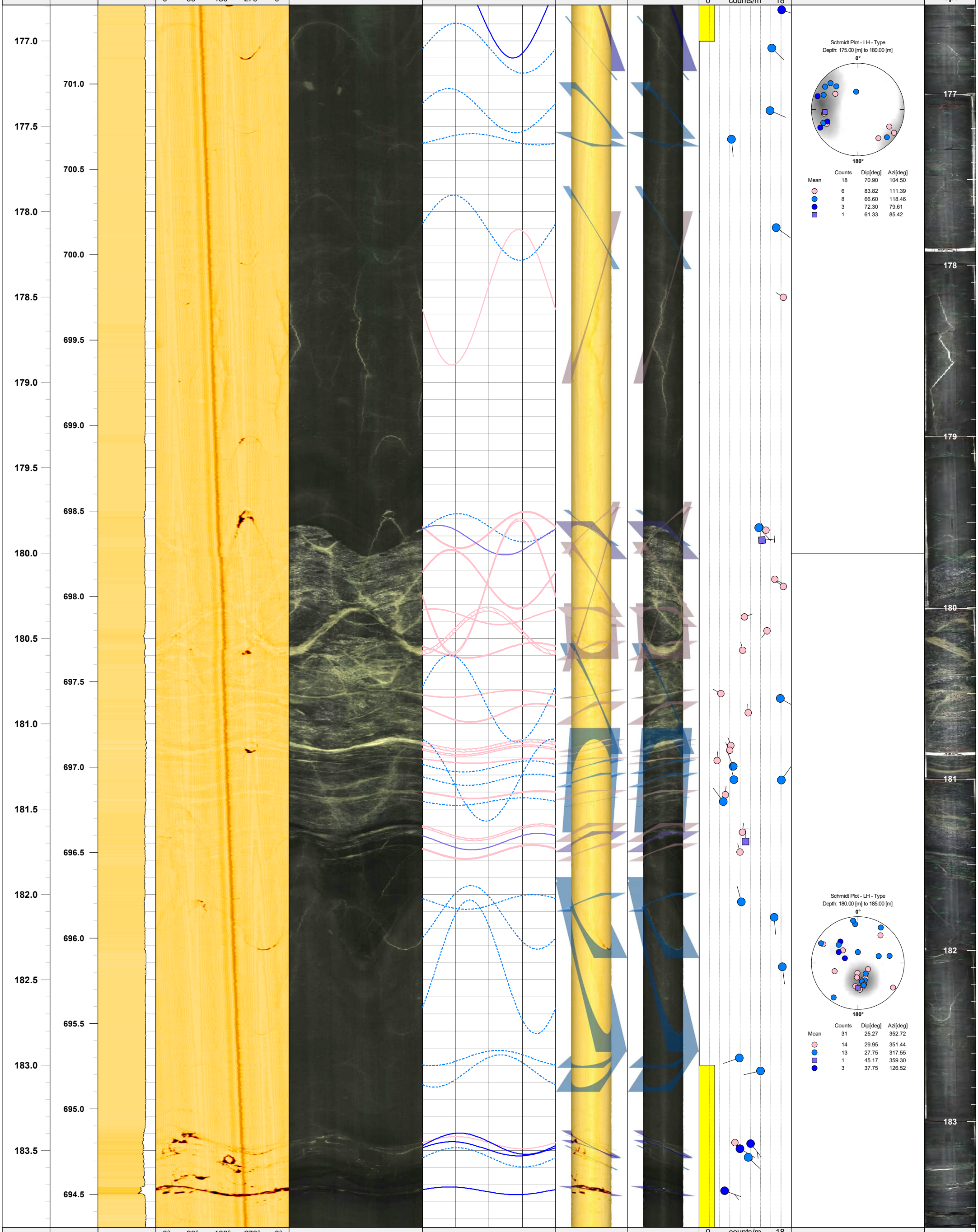
Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 – 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 – 90 Freq/metre; 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



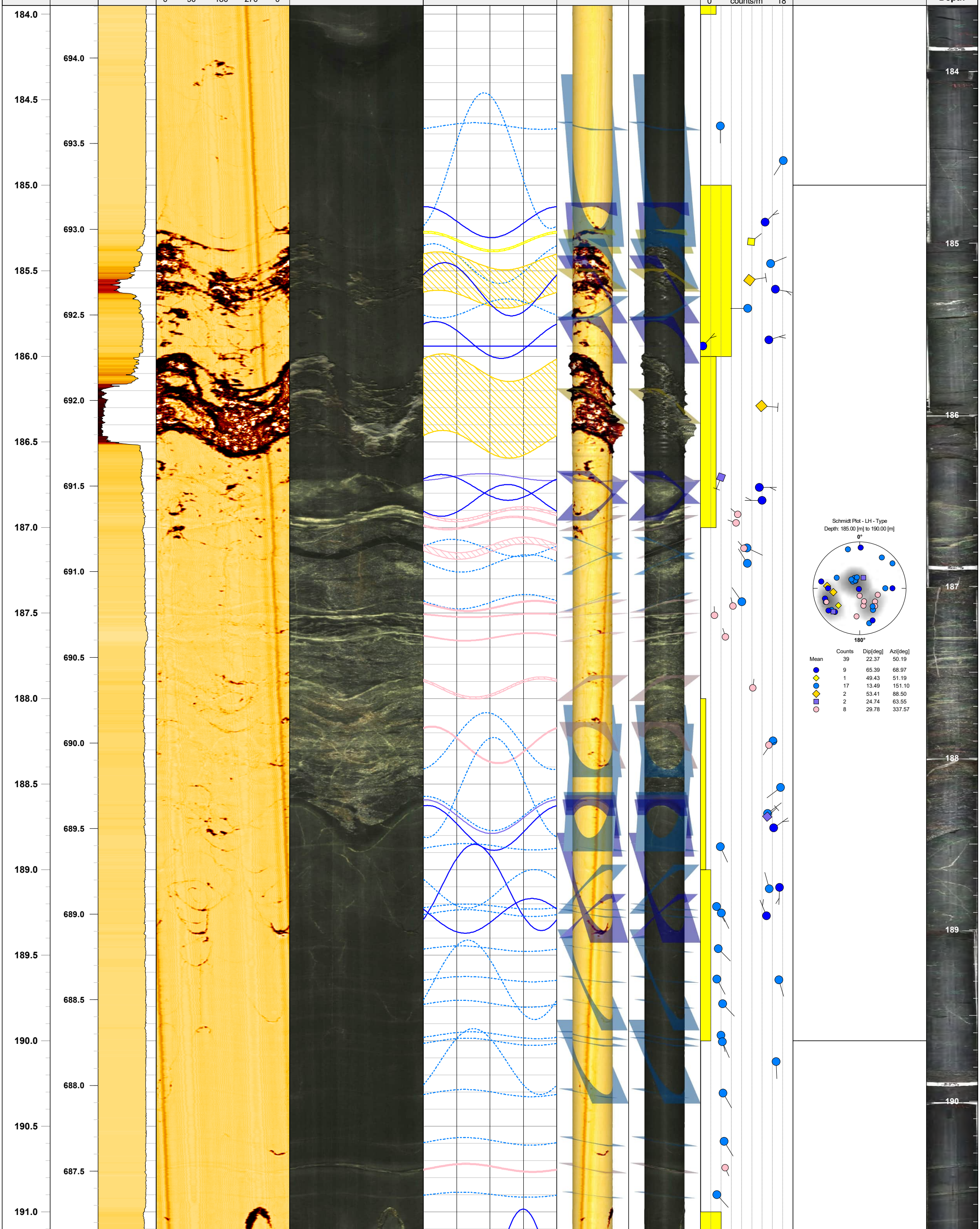
1m:20m	AHD		500 – 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 – 90 Freq/metre; 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
Depth		Image Logs			Structural Data					Core

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



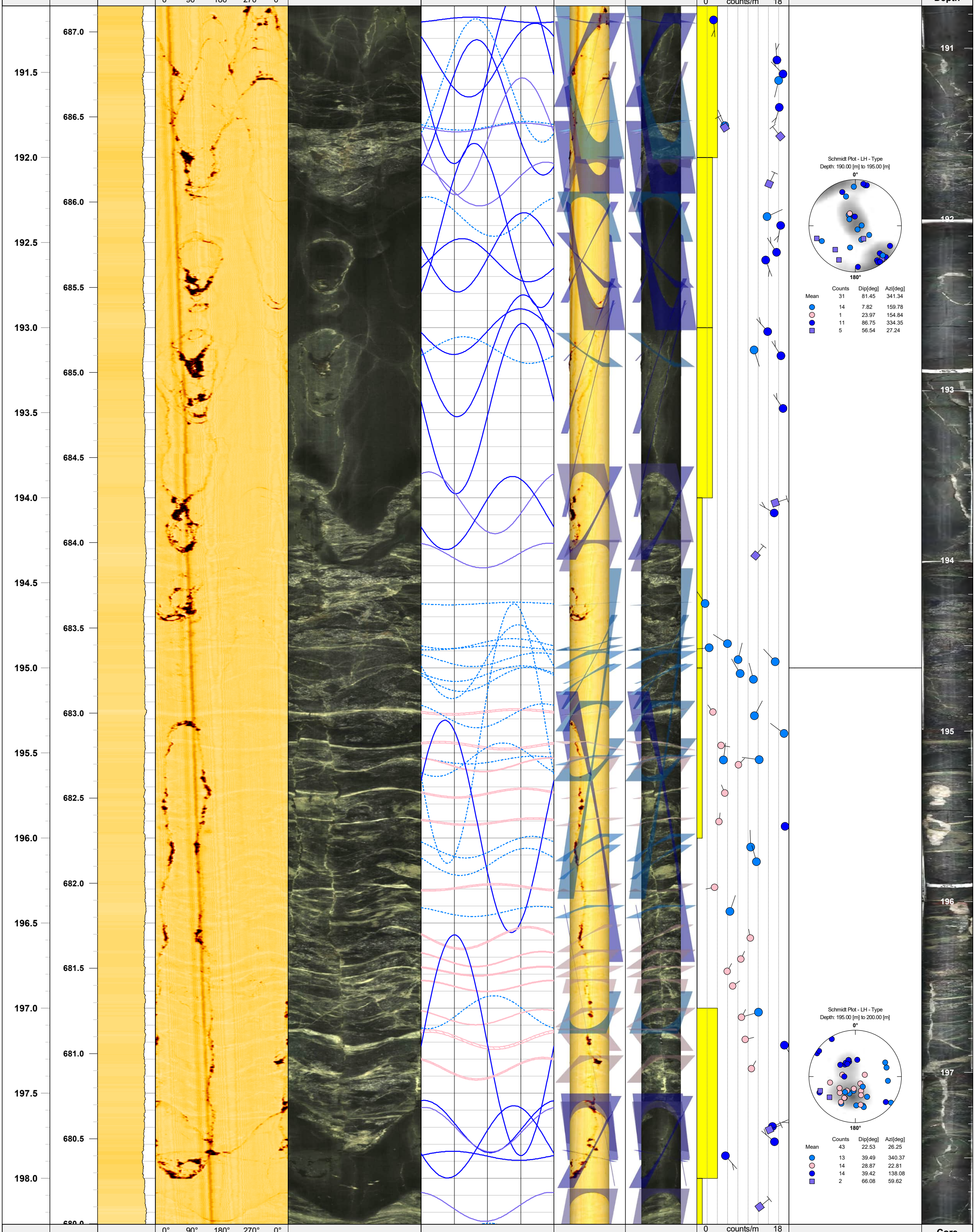
Depth		Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Depth
1m:20m	AHD		0° 90° 180° 270° 0° 500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 90	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
Depth		Image Logs			Structural Data					Core

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



Depth		Image Logs			Structural Data					Core
1m:20m	AHD		0° 90° 180° 270° 0° 500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 90	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

198.5 679.5 199.0 679.0 199.5 678.5 200.0 678.0 200.5 677.5 201.0 677.0 201.5 676.5 202.0 676.0 202.5 675.5 203.0 675.0 203.5 674.5 204.0 674.0 204.5 673.5 205.0 673.0

Schmidt Plot - LH - Type
Depth: 200.00 [m] to 205.00 [m]

0° 180°

	Counts	Dip[deg]	Azi[deg]
Mean	37	21.07	46.55
	1	63.01	150.58
	14	83.91	123.23
	12	29.54	39.93
	7	7.34	333.07
	3	32.06	31.56

198 199 200 201 202 203 204 205

Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200					0 90		Core Depth
			0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	Freq/metre	Schmidt Plot - LH - Type	
								0 counts/m 18		

Depth (m): 205.5, 206.0, 206.5, 207.0, 207.5, 208.0, 208.5, 209.0, 209.5, 210.0, 210.5, 211.0, 211.5, 212.0, 212.5

RL m (AHD): 672.5, 672.0, 671.5, 671.0, 670.5, 670.0, 669.5, 669.0, 668.5, 668.0, 667.5, 667.0, 666.5, 666.0

Schmidt Plot - LH - Type
Depth: 205.00 [m] to 210.00 [m]
0°
180°

	Counts	Dip[deg]	Azi[deg]
Mean	36	29.55	44.73
	17	30.45	48.85
	6	13.13	354.12
	10	50.23	300.08
	3	46.13	63.96

Schmidt Plot - LH - Type
Depth: 210.00 [m] to 215.00 [m]
0°

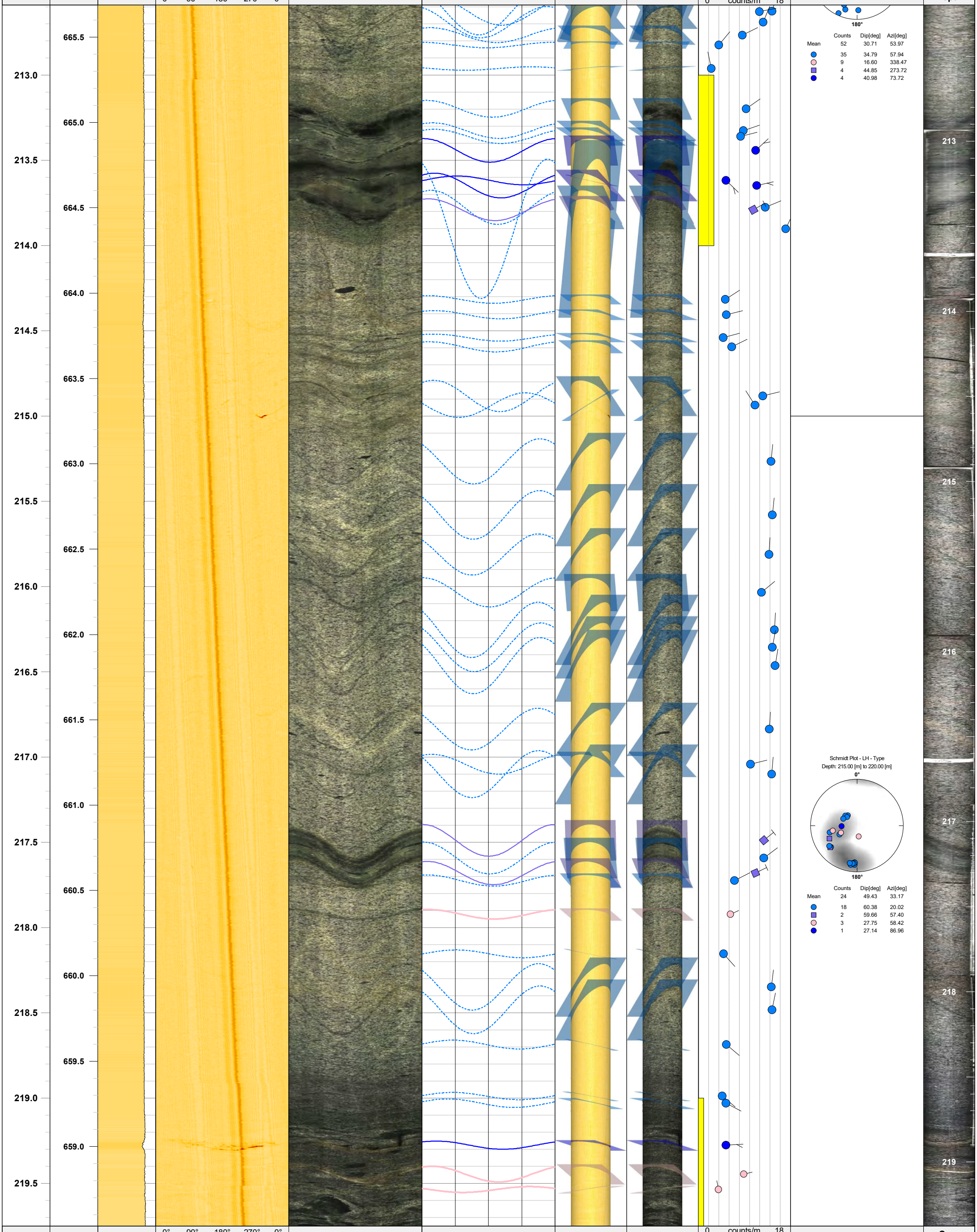
Core Depth: 206, 207, 208, 209, 210, 211, 212

1m:20m AHD Depth RL m Reflectivity Amplitude-HS HPF Image-HS PROC Apparent Structures 3D ATV 3D OTV Structures - TN Stereoplots Core Depth Core Photo
Depth Image Logs Structural Data Core
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Depth		Image Logs			Structural Data						Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type		Core Depth



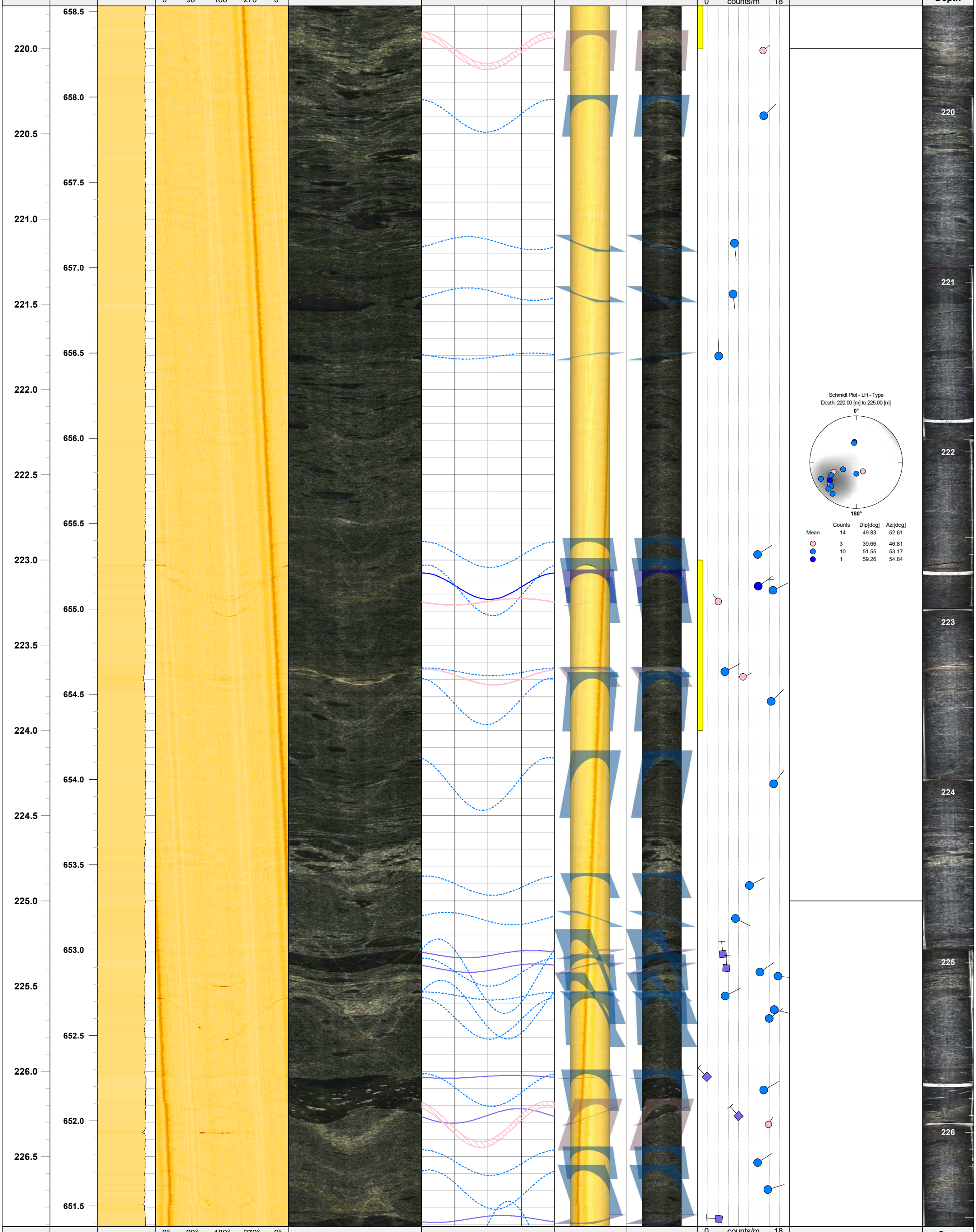
Depth		Image Logs			Structural Data						Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type		Core Depth

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



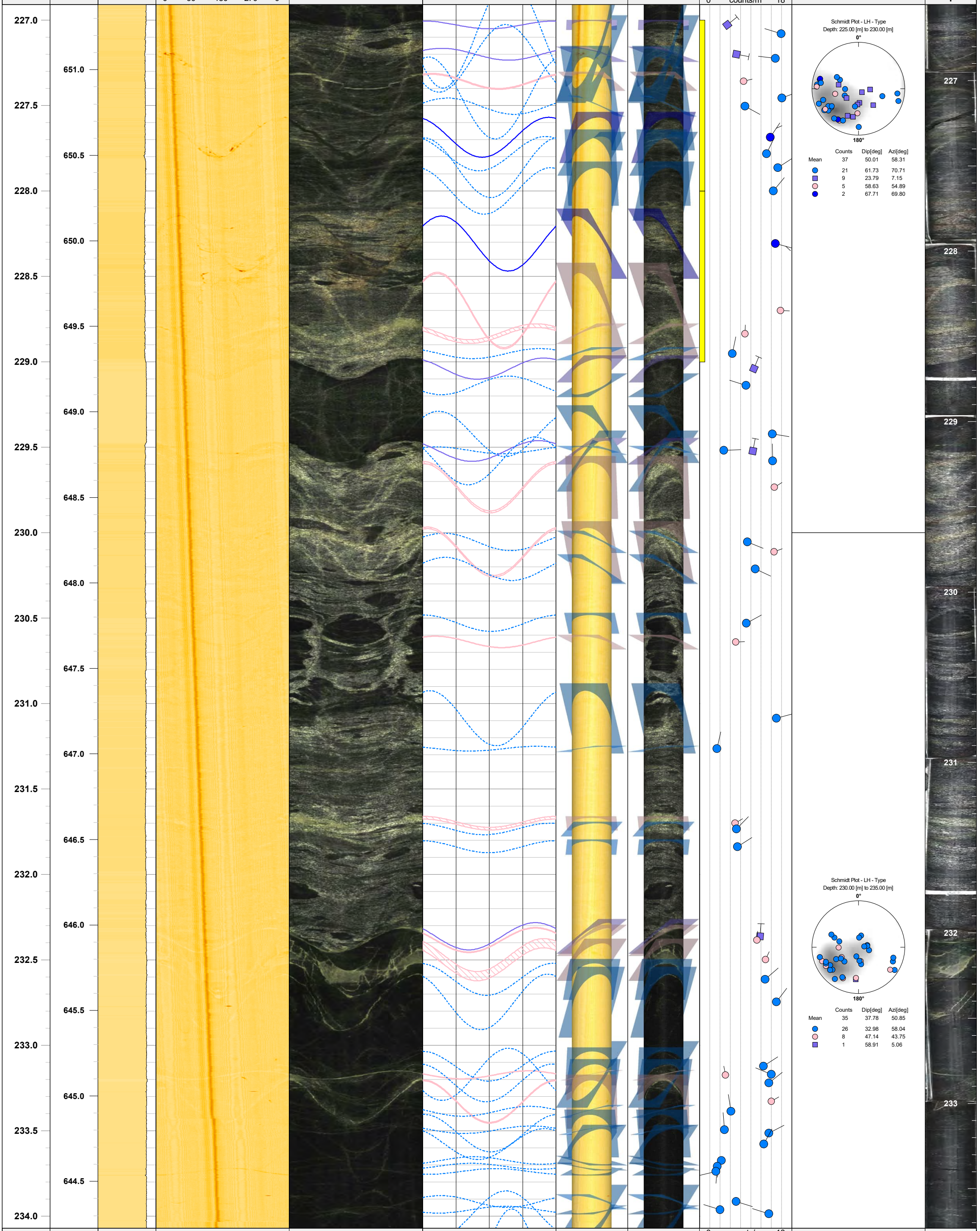
Depth		Image Logs			Structural Data					Core
1m:20m	AHD		0° 90° 180° 270° 0° 500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 90	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo

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Depth		Image Logs			Structural Data						Core	
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo	
1m:20m	AHD		500 7200					0 90			Core Depth	
			0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	Freq/metre	Schmidt Plot - LH - Type			
								0 counts/m 18				



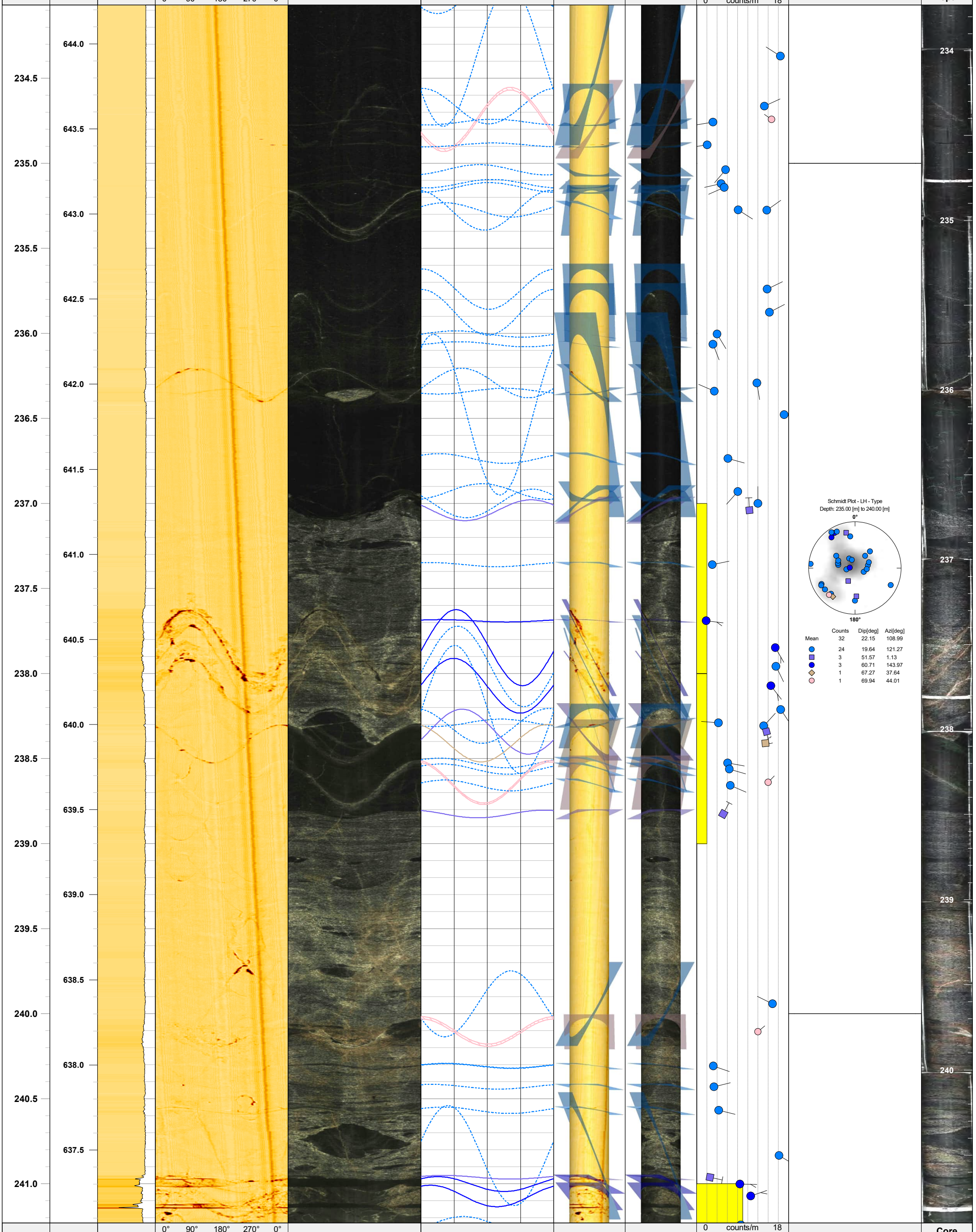
Depth		Image Logs			Structural Data						Core	
1m:20m	AHD		0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18	Schmidt Plot - LH - Type		Core Depth	
Depth	RL m	Reflectivity	500 7200 Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Freq/metre 0 90 Structures - TN	Stereoplots		Core Photo	

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



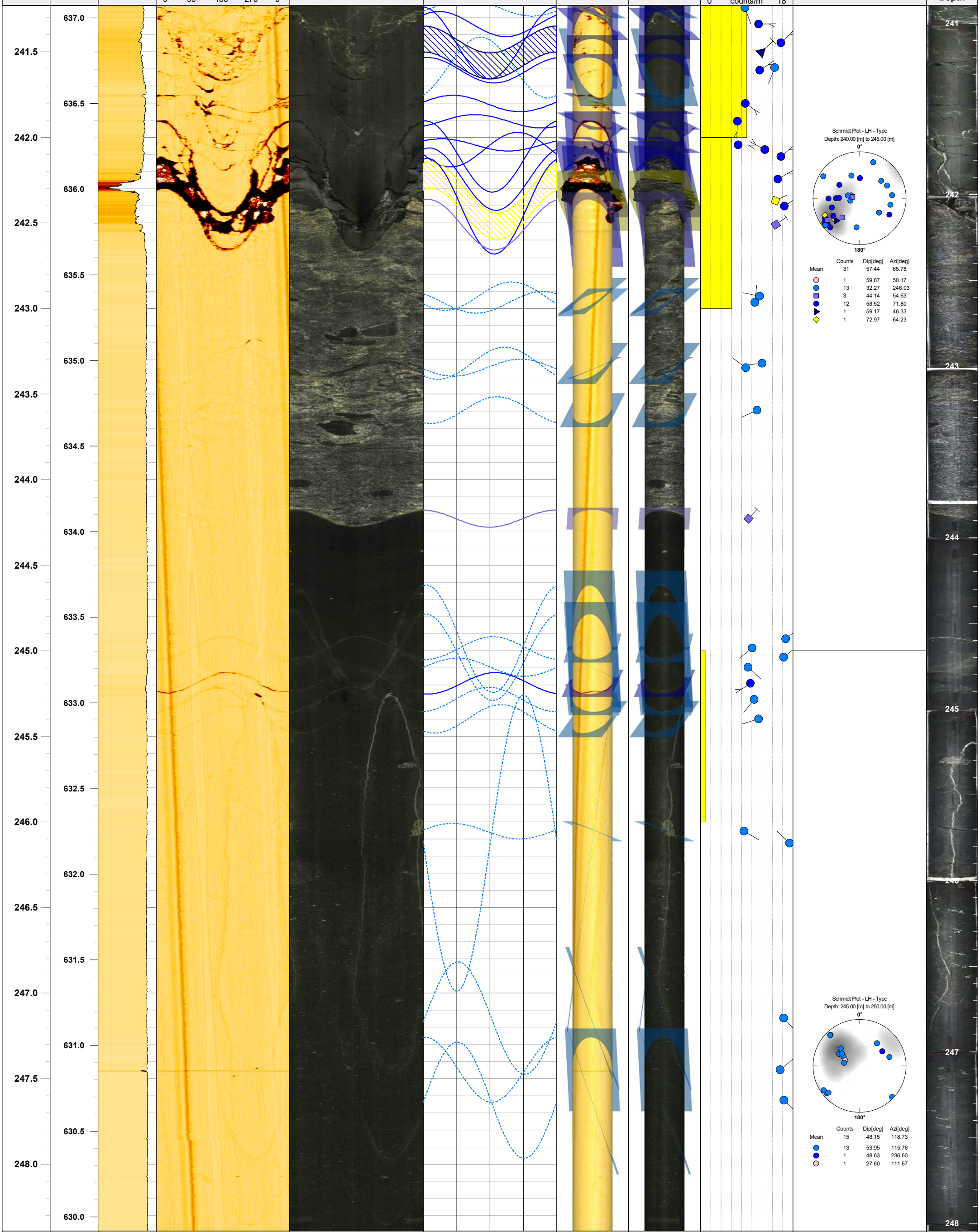
Depth		Image Logs			Structural Data					Core
1m:20m	AHD		0° 90° 180° 270° 0° 500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 90	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

248.5 / 629.5 / 249.0 / 629.0 / 249.5 / 628.5 / 250.0 / 628.0 / 250.5 / 627.5 / 251.0 / 627.0 / 251.5 / 626.5 / 252.0 / 626.0 / 252.5 / 625.5 / 253.0 / 625.0 / 253.5 / 624.5 / 254.0 / 624.0 / 254.5 / 623.5 / 255.0 / 623.0 / 255.5

Schmidt Plot - LH - Type
Depth: 250.00 [m] to 255.00 [m]

	Counts	Dip[deg]	Azi[deg]
Mean	19	31.93	67.19
	3	36.45	82.69
	6	29.29	86.05
	5	36.36	33.79
	5	19.49	335.35

250 / 251 / 252 / 253 / 254 / 255

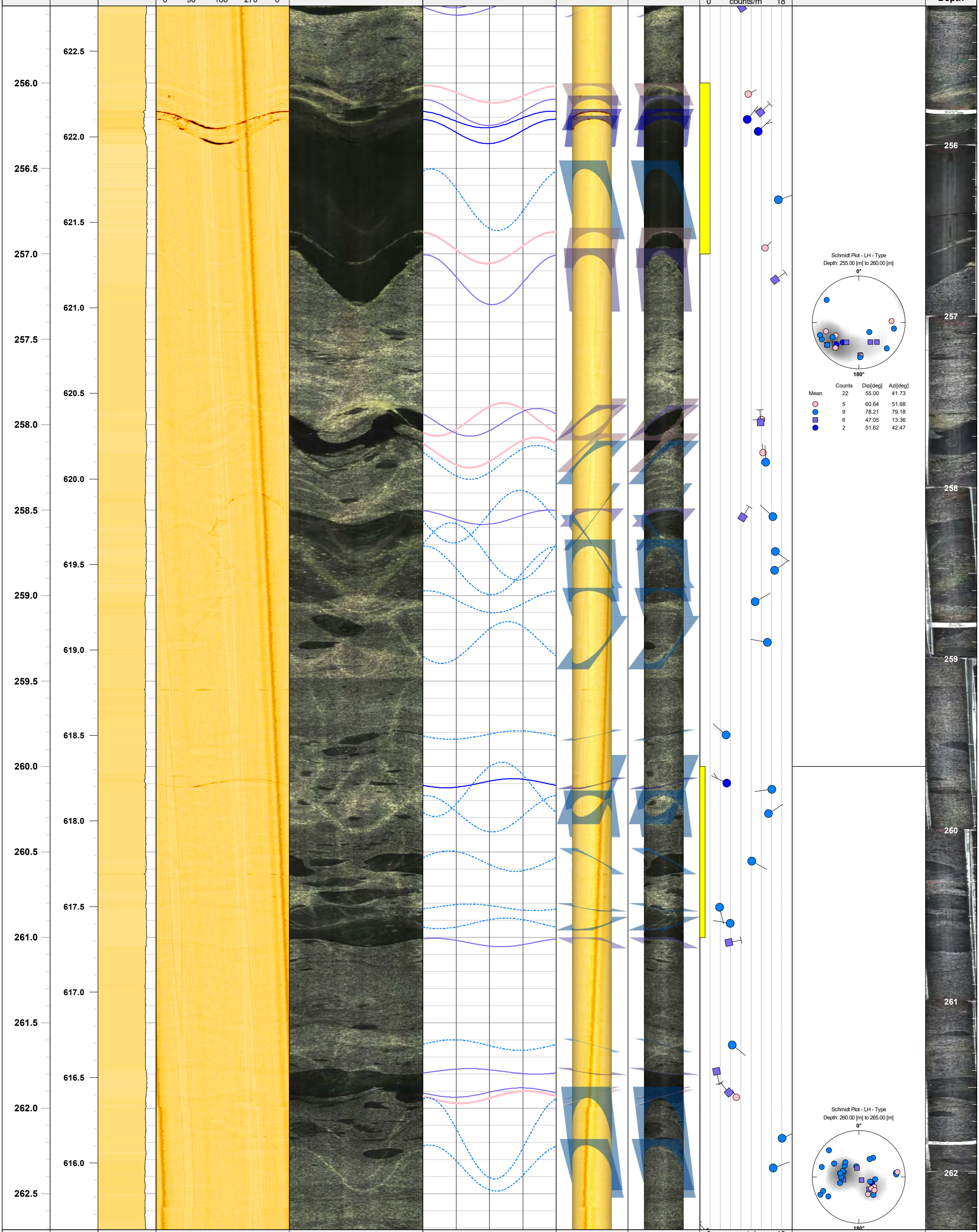
Depth		Image Logs			Structural Data					Core
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 90	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



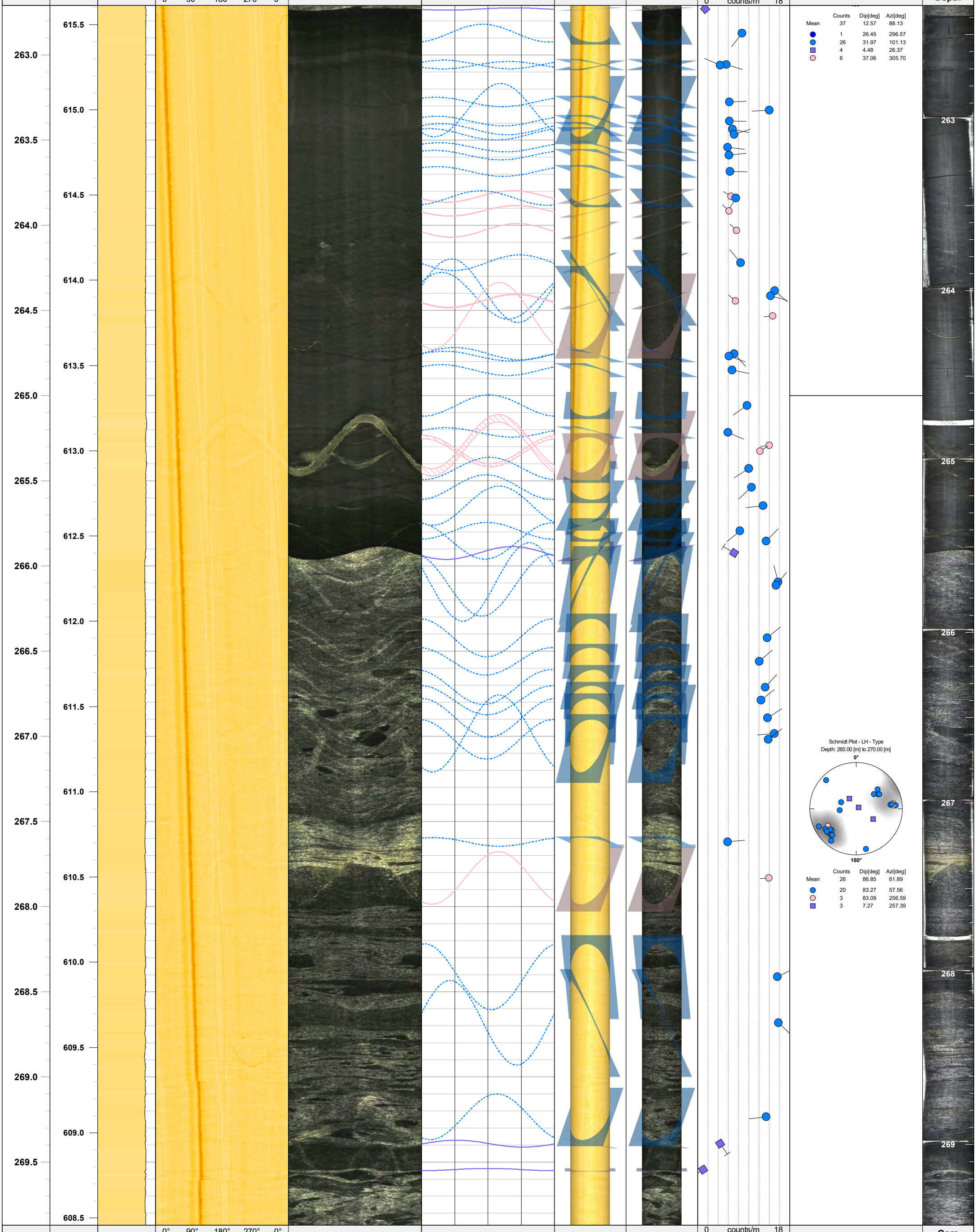
Depth		Image Logs			Structural Data					Core
1m:20m	AHD		0° 90° 180° 270° 0° 500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 90	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
Depth		Image Logs			Structural Data					Core

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Depth		Image Logs			Structural Data						Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type		Core Depth



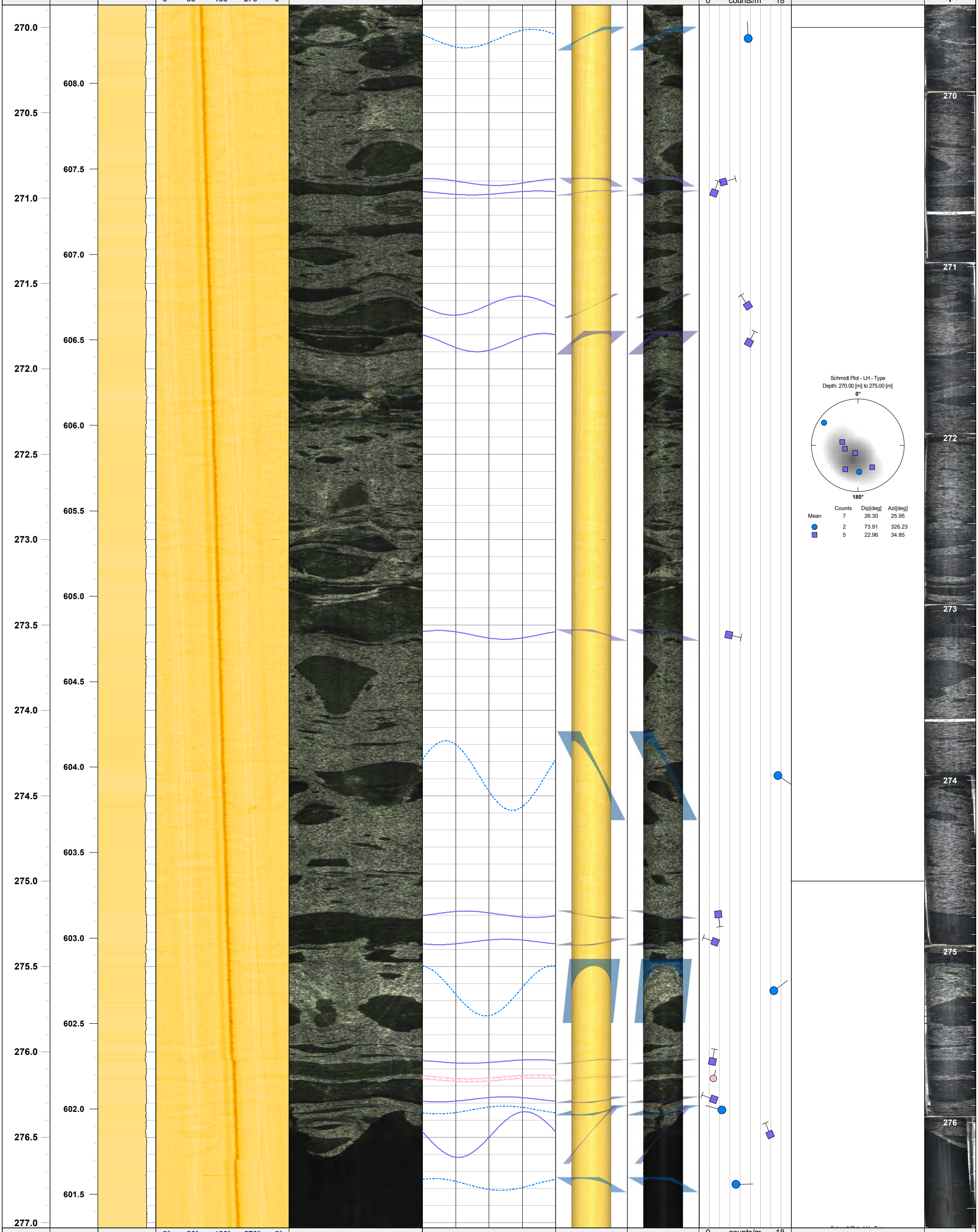
Depth		Image Logs			Structural Data						Core
1m:20m	AHD		0° 90° 180° 270° 0° 500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 90	Schmidt Plot - LH - Type		Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo
Depth		Image Logs			Structural Data						Core

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



1m:20m	AHD		0° 90° 180° 270° 0° 500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 90	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
Depth		Image Logs			Structural Data					Core

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Depth		Image Logs			Structural Data						Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type		Core Depth

277.5 · 601.0
278.0 · 600.5
278.5 · 600.0
279.0 · 599.5
279.5 · 599.0
280.0 · 598.5
280.5 · 598.0
281.0 · 597.5
281.5 · 597.0
282.0 · 596.5
282.5 · 596.0
283.0 · 595.5
283.5 · 595.0
284.0 · 594.5

Schmidt Plot - LH - Type
Depth: 275.00 [m] to 280.00 [m]
0°
180°

	Counts	Dip[deg]	Azi[deg]
Mean	19	15.49	29.21
	8	2.43	214.03
	10	43.58	53.26
	1	13.86	14.85

Schmidt Plot - LH - Type
Depth: 280.00 [m] to 285.00 [m]
0°
180°

	Counts	Dip[deg]	Azi[deg]
Mean	21	65.17	328.47
	17	61.70	13.61
	1	18.66	334.14
	3	82.04	301.25

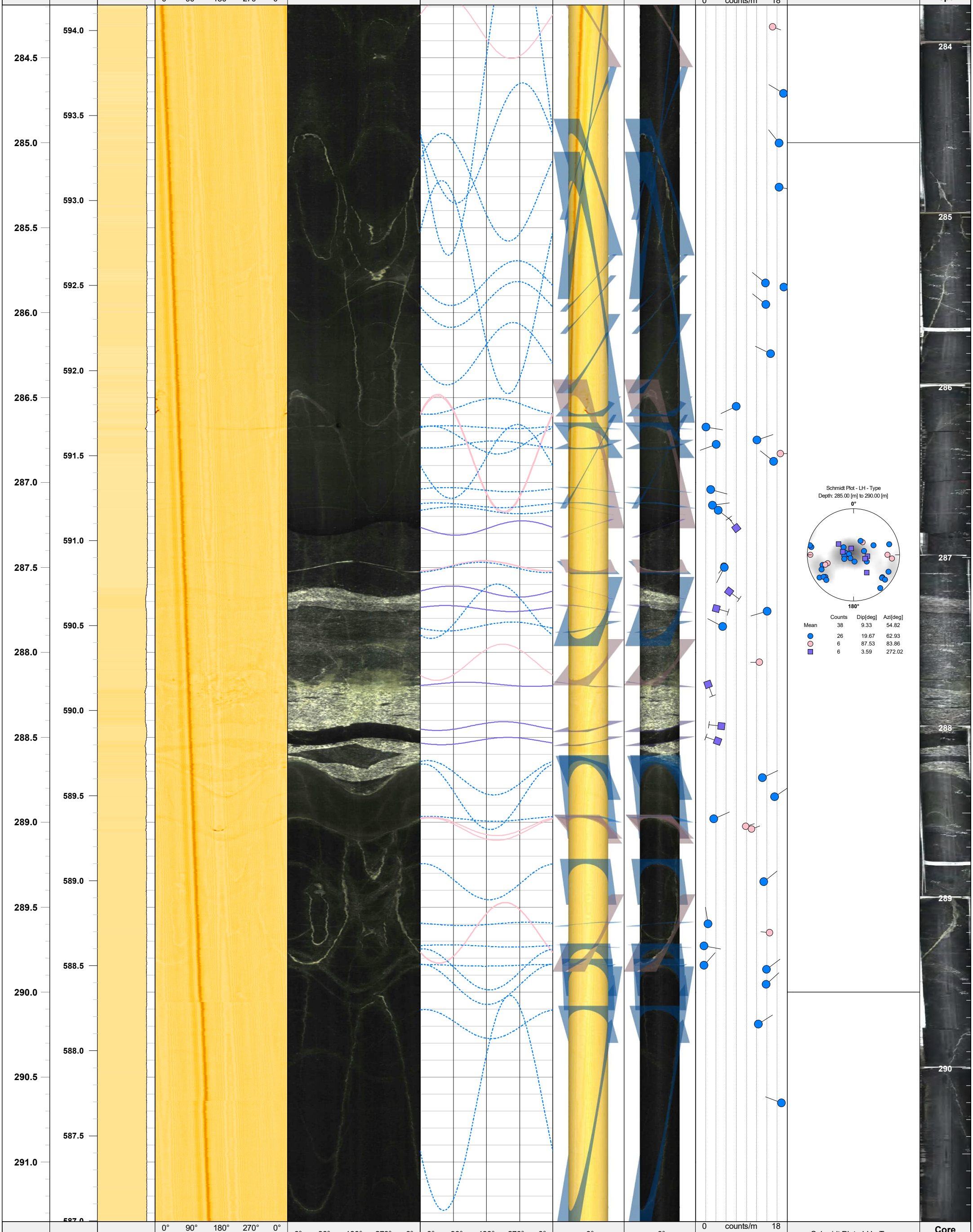
277 · 278 · 279 · 280 · 281 · 282 · 283

1m:20m AHD Depth RL m Reflectivity Amplitude-HS HPF 500 7200 0° 90° 180° 270° 0° Image-HS PROC 0° 90° 180° 270° 0° Apparent Structures 0° 90° 180° 270° 0° 3D ATV -0° 3D OTV -0° Structures - TN 0 90 Freq/metre 0 counts/m 18 Stereoplots Schmidt Plot - LH - Type Core Depth Core Photo
Depth Image Logs Structural Data Core
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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



Schmidt Plot - LH - Type
Depth: 285.00 [m] to 290.00 [m]

	Counts	Dip[deg]	Azi[deg]
Mean	38	9.33	54.82
	26	19.67	62.93
	6	87.53	83.86
	6	3.59	272.02

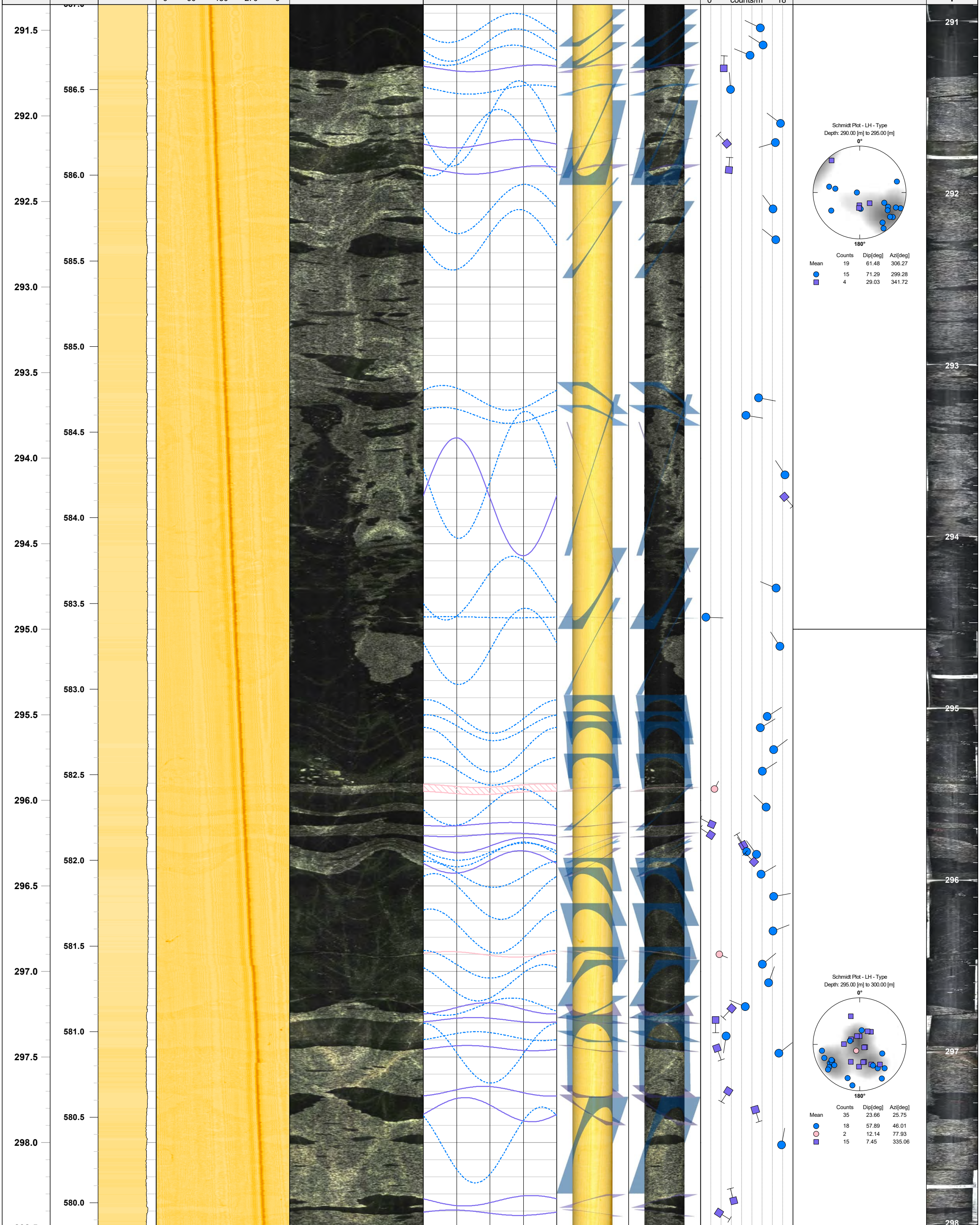
Depth		Image Logs			Structural Data					Core
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo

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Depth		Image Logs			Structural Data						Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type		Core Depth



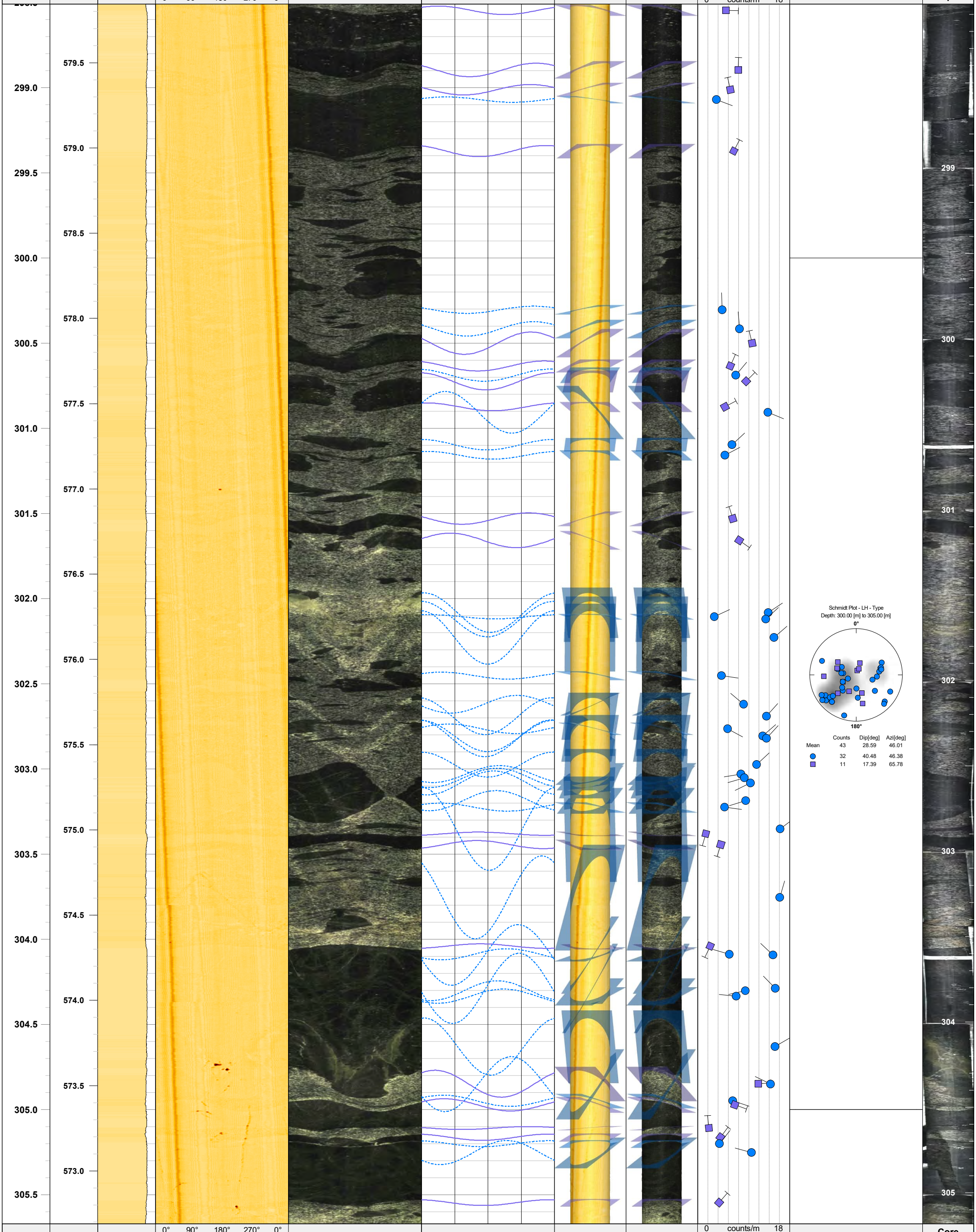
1m:20m	AHD		0° 90° 180° 270° 0° 500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 90	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
Depth		Image Logs			Structural Data					Core

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



Schmidt Plot - LH - Type
Depth: 300.00 [m] to 305.00 [m]

	Counts	Dip[deg]	Azi[deg]
Mean	43	28.59	46.01
	32	40.48	46.38
	11	17.39	65.78

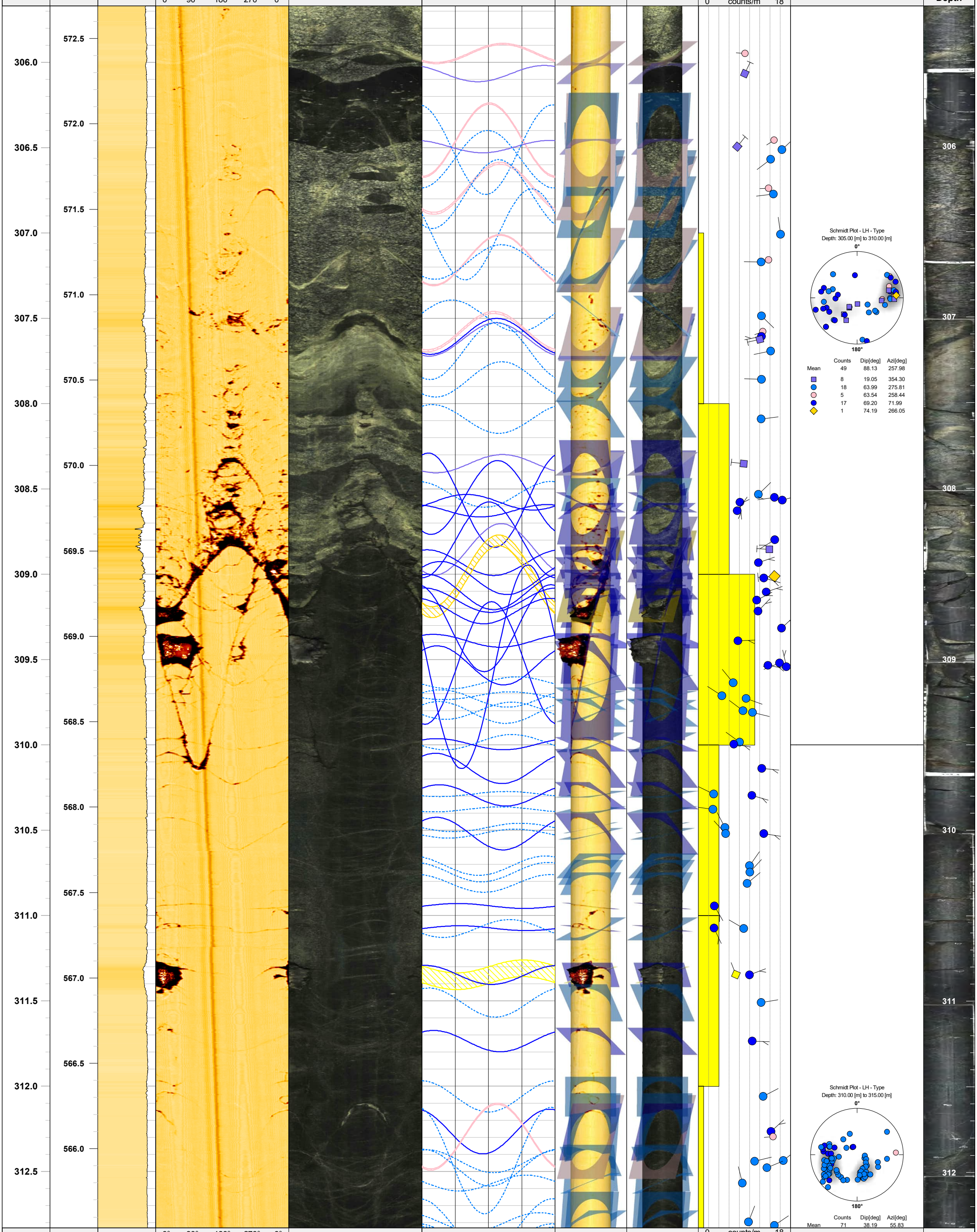
1m:20m	AHD		0° 90° 180° 270° 0° 500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 90	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
Depth		Image Logs			Structural Data					Core

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



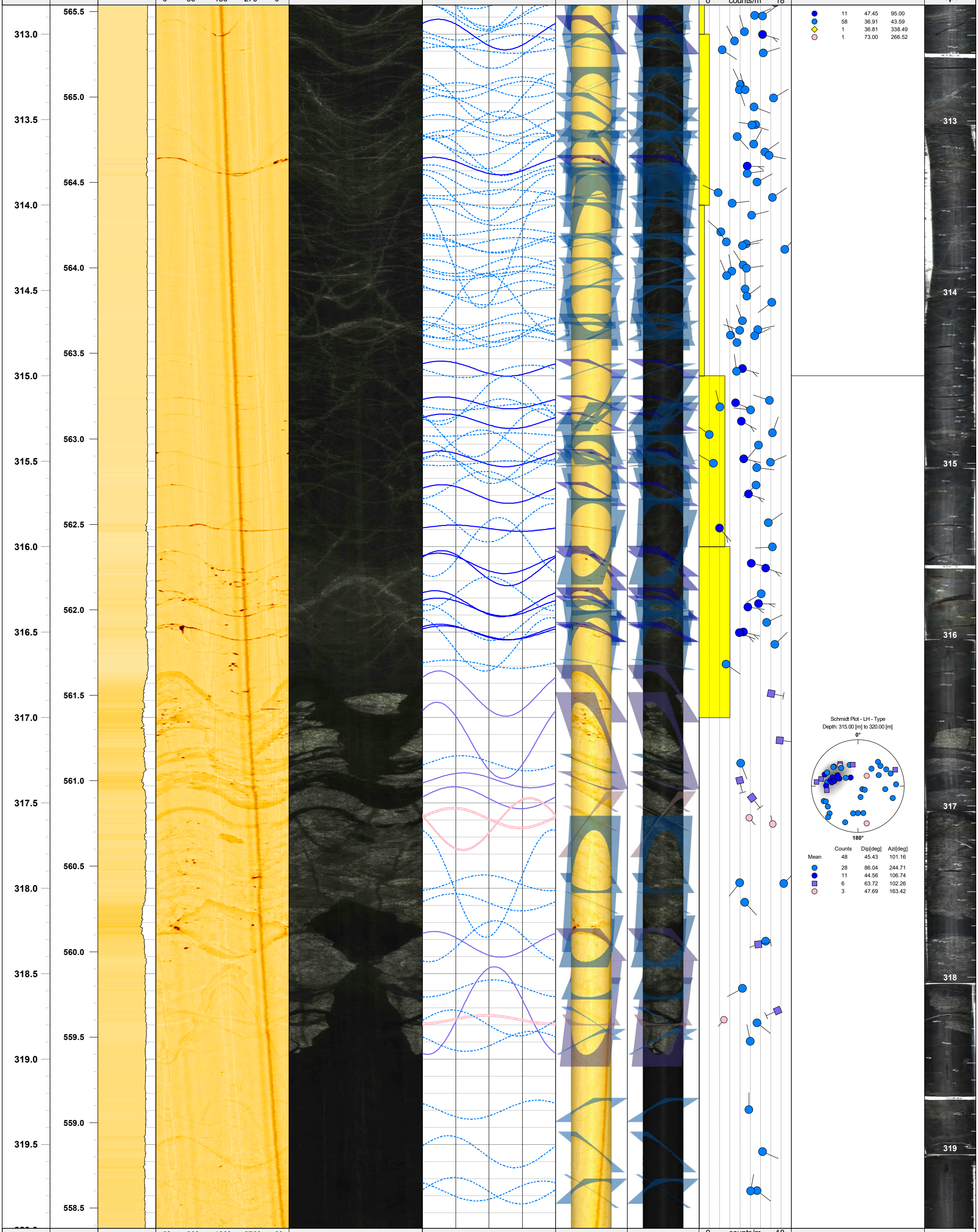
Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 – 7200 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 – 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



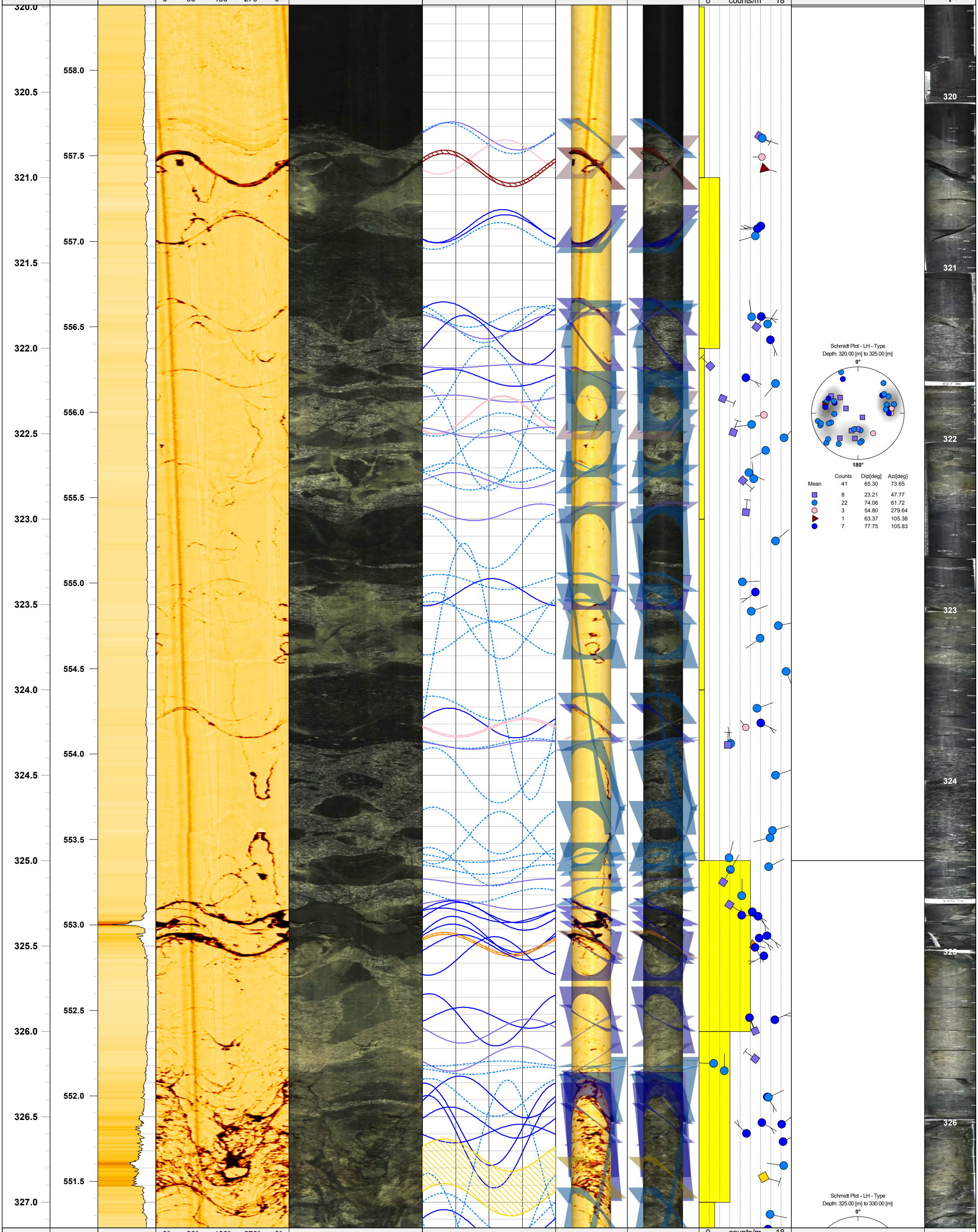
Depth		Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Depth
1m:20m	AHD		0° 90° 180° 270° 0° 500 – 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 – 90	Schmidt Plot - LH - Type	Core Photo
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core

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Depth		Image Logs			Structural Data						Core	
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo	
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type		Core Depth	



Depth		Image Logs			Structural Data						Core	
1m:20m	AHD		0° 90° 180° 270° 0° 500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 90	Schmidt Plot - LH - Type		Core Depth	
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo	

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200			-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth
			0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°					

Depth: 327.5 328.0 328.5 329.0 329.5 330.0 330.5 331.0 331.5 332.0 332.5 333.0 333.5 334.0

RL m: 551.0 550.5 550.0 549.5 549.0 548.5 548.0 547.5 547.0 546.5 546.0 545.5 545.0 544.5

Core Depth: 327 328 329 330 331 332 333

Stereoplots — Schmidt Plot - LH - Type

	Counts	Dip[deg]	Azi[deg]
Mean	59	39.29	87.94
	19	17.52	10.95
	4	29.01	341.51
	33	51.49	101.27
	1	52.72	106.27
	1	63.04	105.86
	1	25.29	303.58

Schmidt Plot - LH - Type
Depth: 330.00 [m] to 335.00 [m]

	Counts	Dip[deg]	Azi[deg]
Mean	5	43.10	295.97
	3	80.61	269.45
	1	42.10	14.54
	1	46.81	282.78

Depth		Image Logs			Structural Data					Core
1m:20m	AHD		500 7200			-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
Depth		Image Logs			Structural Data					Core

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200					0 90		Core Depth
			0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	Freq/metre	Schmidt Plot - LH - Type	
								0 counts/m 18		

334.5 544.0
335.0 543.5
335.5 543.0
336.0 542.5
336.5 542.0
337.0 541.5
337.5 541.0
338.0 540.5
338.5 540.0
339.0 539.5
339.5 539.0
340.0 538.5
340.5 538.0
341.0 537.5
537.0

Schmidt Plot - LH - Type
Depth: 335.00 [m] to 340.00 [m]

0°
180°

	Counts	Dip[deg]	Azi[deg]
Mean	58	48.72	268.47
	43	35.43	271.96
	11	68.46	262.10
	2	51.40	6.43
	2	62.59	267.95

Core: 334 335 336 337 338 339 340

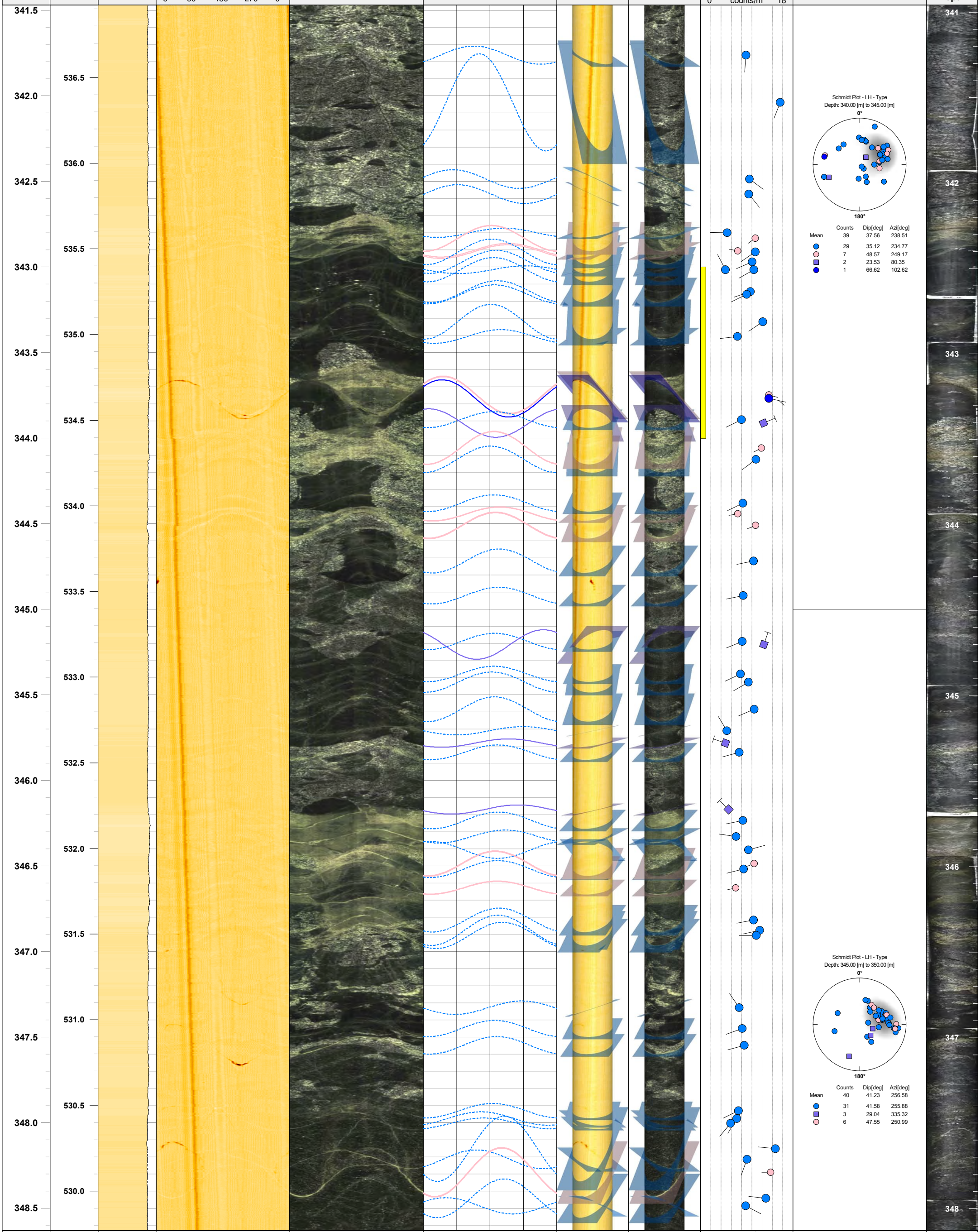
Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200					0 90		Core Depth
			0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	Freq/metre	Schmidt Plot - LH - Type	
								0 counts/m 18		

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



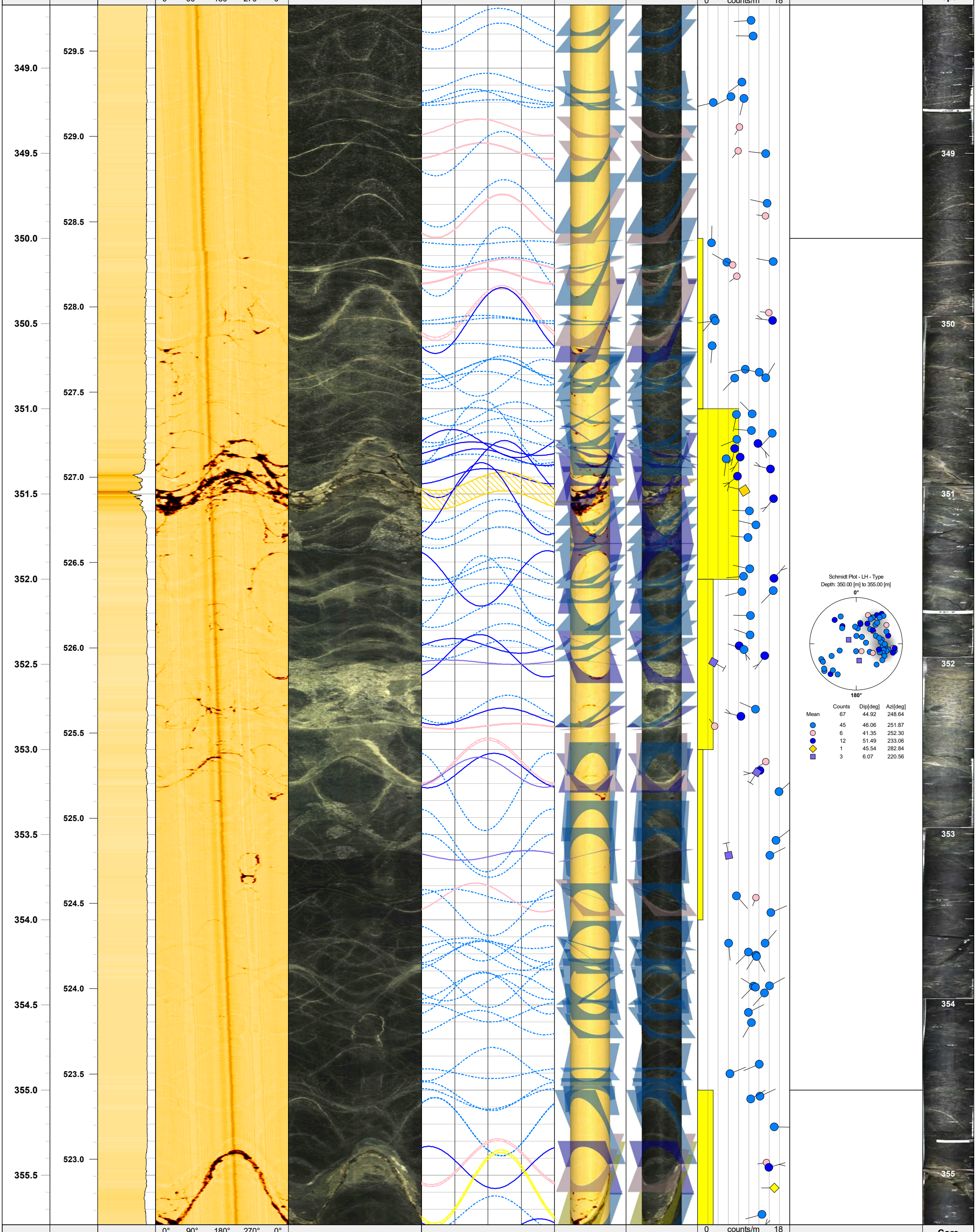
Depth		Image Logs			Structural Data					Core
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



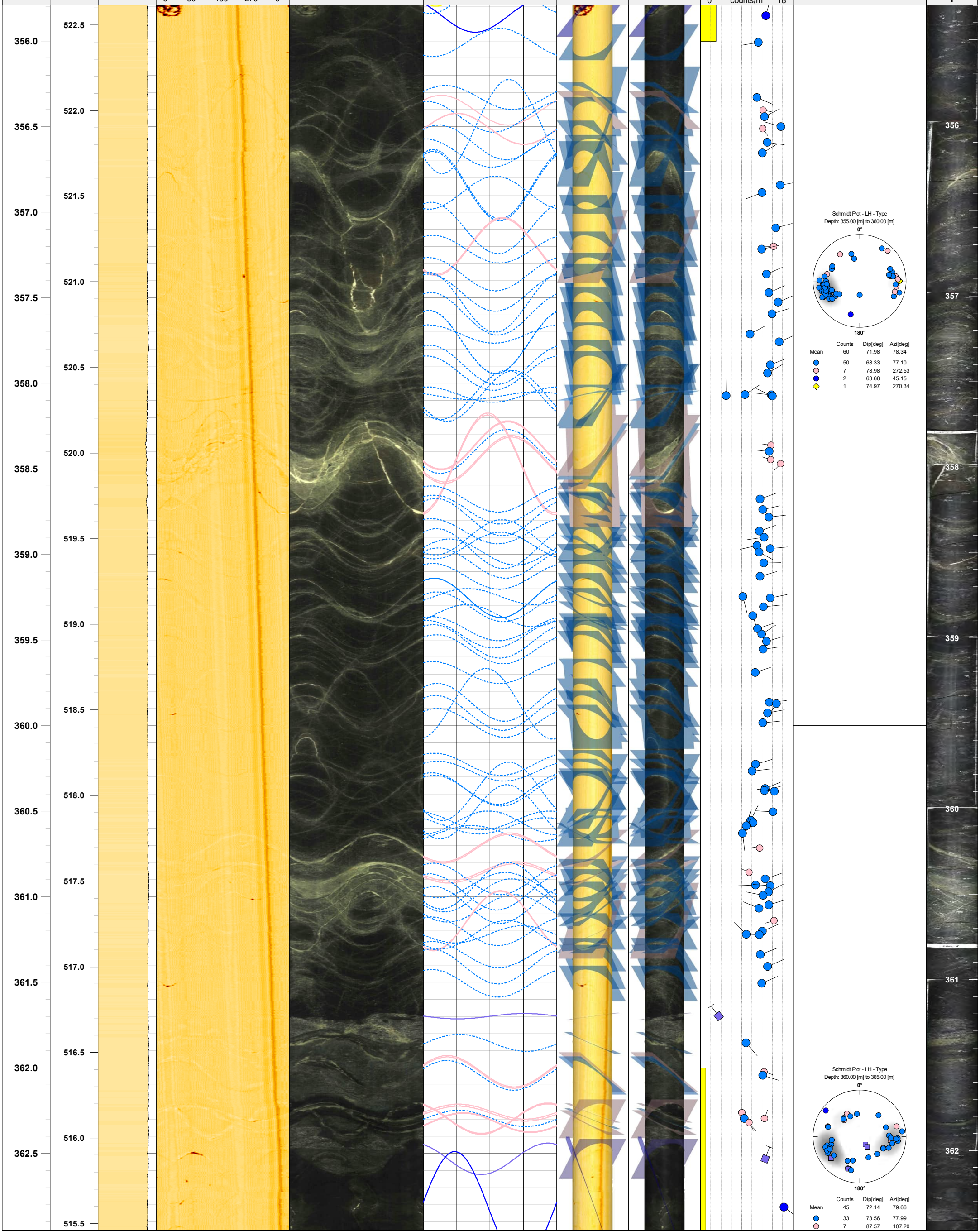
Depth		Image Logs			Structural Data					Core
1m:20m	AHD		0° 90° 180° 270° 0° 500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 90	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



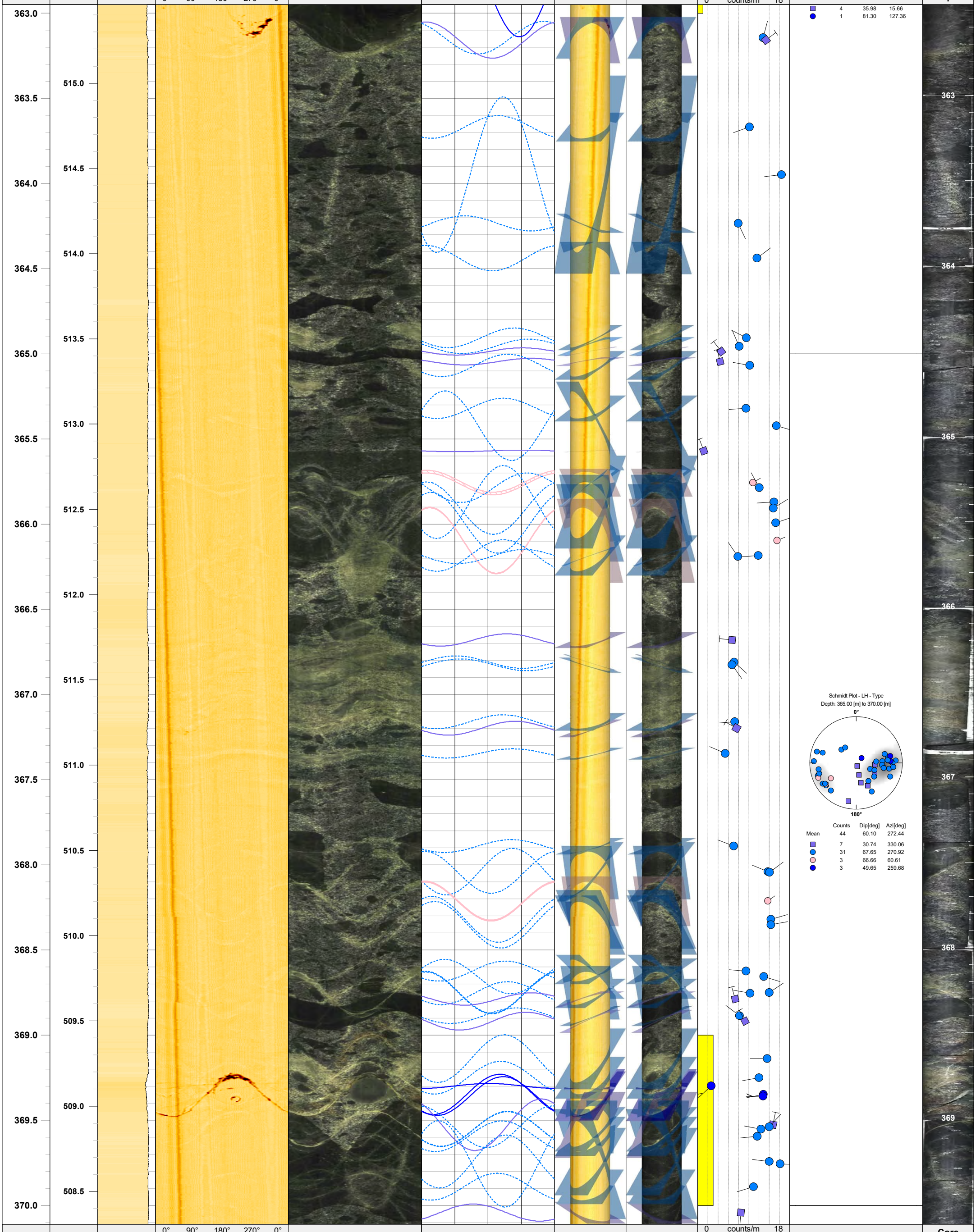
Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



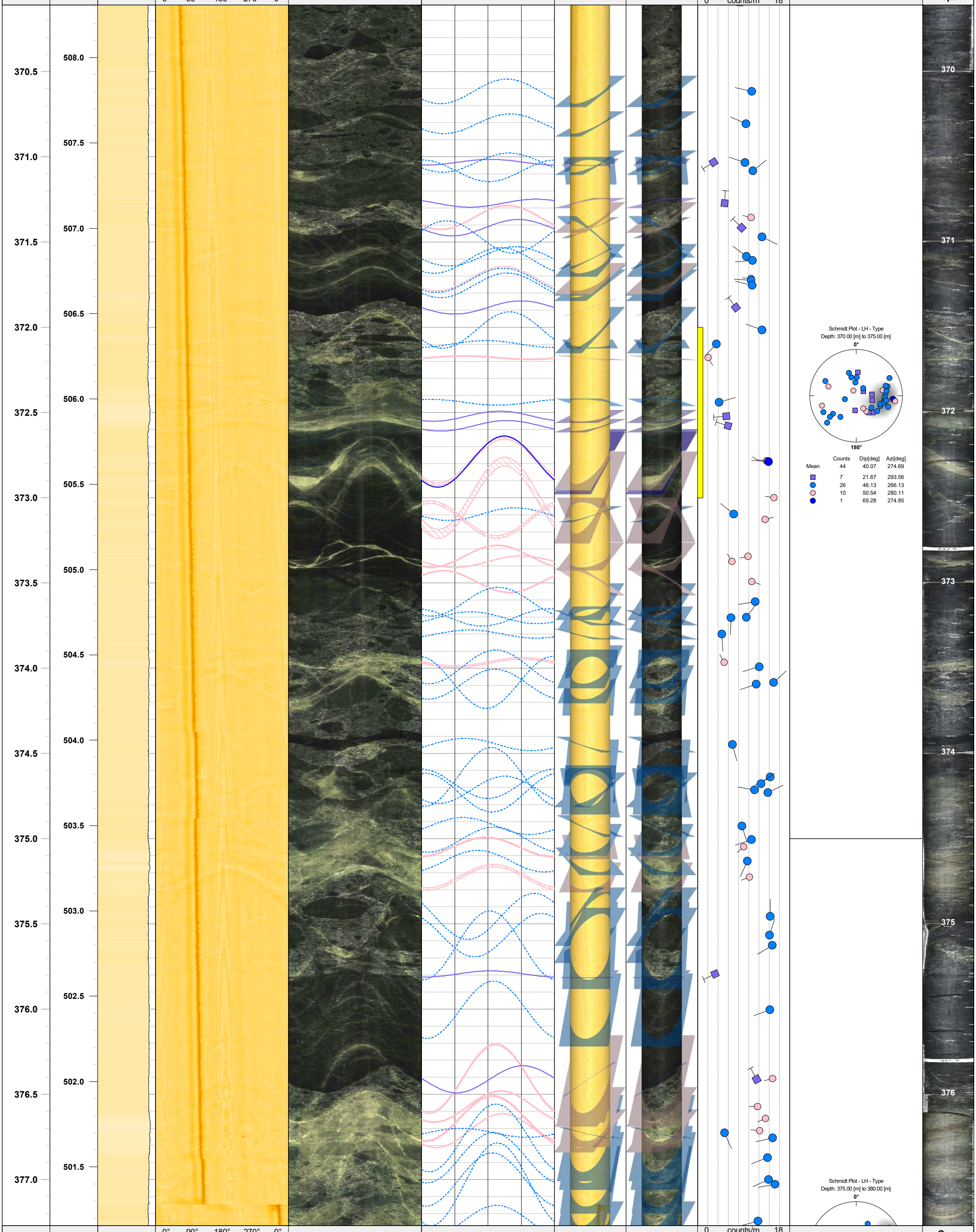
Depth		Image Logs			Structural Data					Core
1m:20m	AHD		0° 90° 180° 270° 0° 500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 90	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



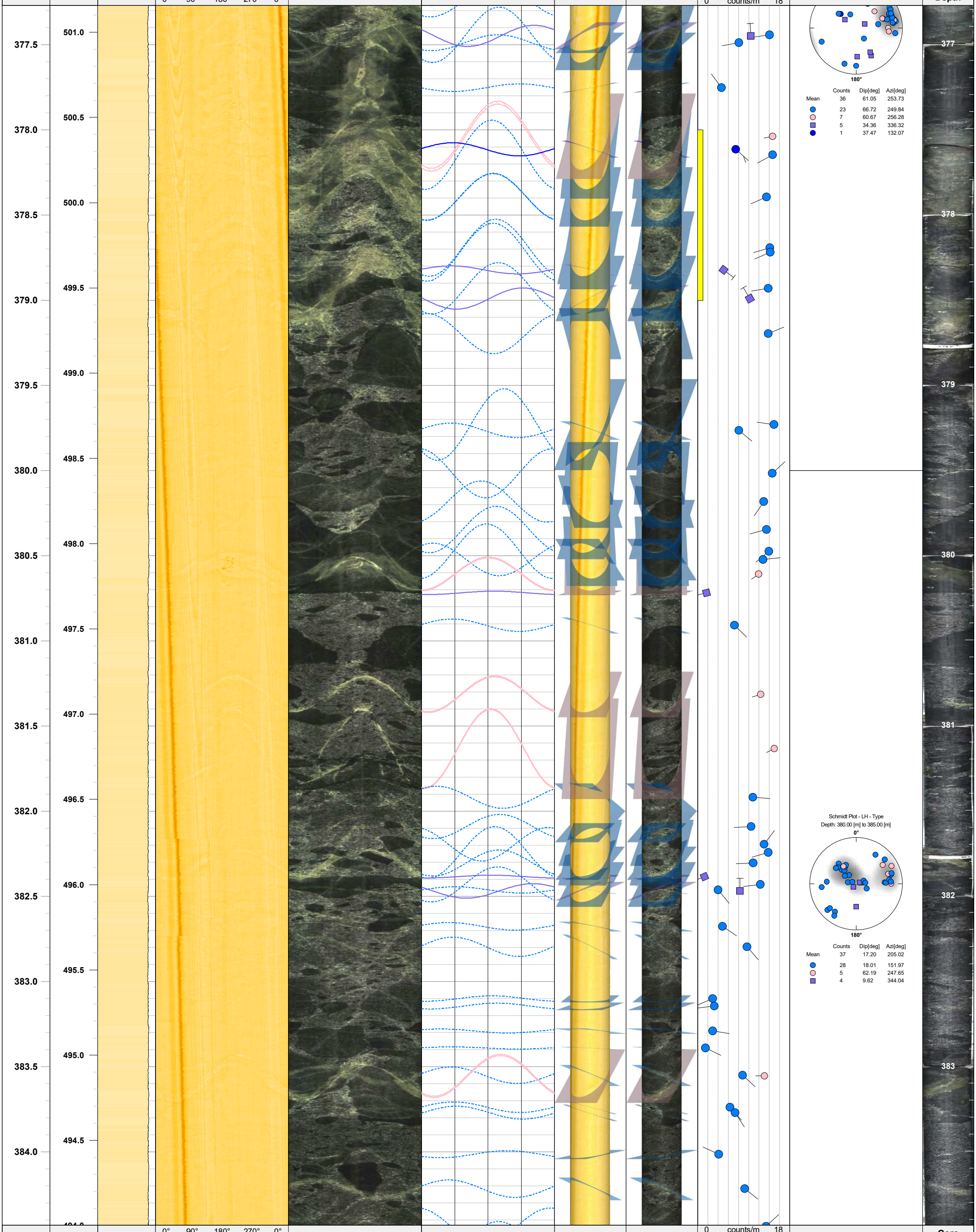
Depth		Image Logs			Structural Data					Core
1m:20m	AHD		0° 90° 180° 270° 0° 500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 90	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 – 7200 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 – 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



1m:20m	AHD		0° 90° 180° 270° 0° 500 – 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 – 90	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
Depth		Image Logs			Structural Data					Core

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

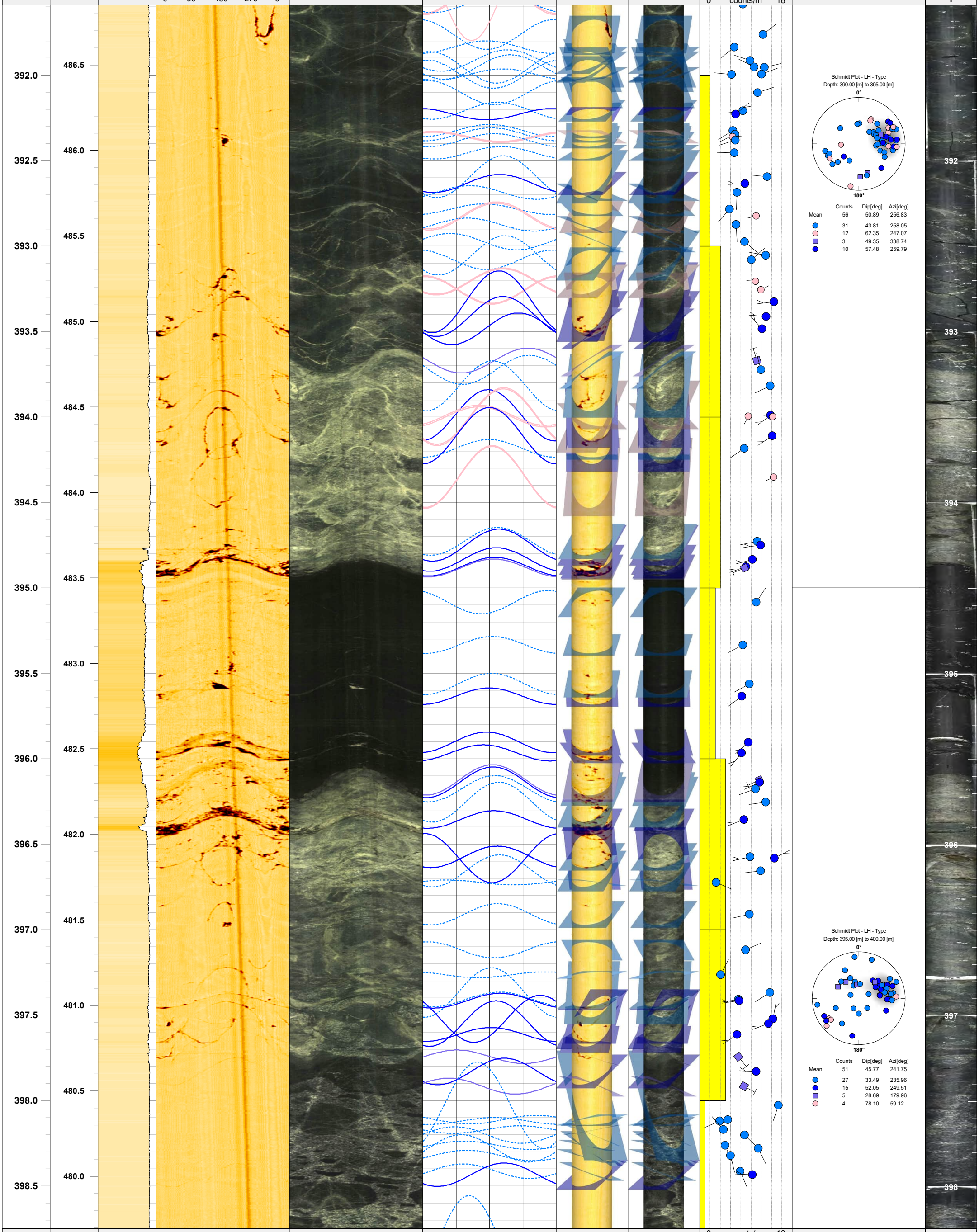
Schmidt Plot - LH - Type
Depth: 385.00 [m] to 390.00 [m]

	Counts	Dip[deg]	Azi[deg]
Mean	46	49.21	265.77
	27	53.54	259.17
	8	17.94	306.97
	10	60.73	263.70
	1	64.66	335.31

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Depth		Image Logs			Structural Data						Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type		Core Depth



1m:20m	AHD		0° 90° 180° 270° 0° 500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 90	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
Depth		Image Logs			Structural Data					Core

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 – 7200 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 – 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

399.0 / 479.5
399.5 / 479.0
400.0 / 478.5
400.5 / 478.0
401.0 / 477.5
401.5 / 477.0
402.0 / 476.5
402.5 / 476.0
403.0 / 475.5
403.5 / 475.0
404.0 / 474.5
404.5 / 474.0
405.0 / 473.5
405.5 / 473.0

Schmidt Plot - LH - Type
Depth: 400.00 [m] to 405.00 [m]

0°

180°

	Counts	Dip[deg]	Azi[deg]
Mean	63	44.01	67.11
	20	82.87	266.53
	35	36.07	61.67
	7	20.94	80.01
	1	48.15	116.23

399
400
401
402
403
404
405

Depth		Image Logs			Structural Data					Core
1m:20m	AHD		0° 90° 180° 270° 0° 500 – 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 – 90	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo

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Depth		Image Logs			Structural Data						Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo
1m:20m	AHD		500 7200					0 90			Core Depth
			0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	Freq/metre	Schmidt Plot - LH - Type		
								0 counts/m 18			

406.0 / 472.5
406.5 / 472.0
407.0 / 471.5
407.5 / 471.0
408.0 / 470.5
408.5 / 470.0
409.0 / 469.5
409.5 / 469.0
410.0 / 468.5
410.5 / 468.0
411.0 / 467.5
411.5 / 467.0
412.0 / 466.5
412.5 / 466.0
413.0 / 465.5

Schmidt Plot - LH - Type
Depth: 405.00 [m] to 410.00 [m]
0°
180°

	Counts	Dip[deg]	Azi[deg]
Mean	49	73.43	72.13
	4	42.65	270.84
	44	68.00	75.97
	1	82.36	37.04

Schmidt Plot - LH - Type
Depth: 410.00 [m] to 415.00 [m]
0°
180°

	Counts	Dip[deg]	Azi[deg]
Mean	25	66.21	86.07
	10	59.87	90.46
	8	62.84	74.21
	2	46.90	190.38
	4	45.09	288.82
	1	79.12	43.65

406 407 408 409 410 411 412

Depth		Image Logs			Structural Data						Core
1m:20m	AHD		0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18	Schmidt Plot - LH - Type		Core Depth
			500 7200					Freq/metre			
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	0 90	Stereoplots		Core Photo
								Structures - TN			
Depth		Image Logs			Structural Data						Core

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

413.5 / 465.0
414.0 / 464.5
414.5 / 464.0
415.0 / 463.5
415.5 / 463.0
416.0 / 462.5
416.5 / 462.0
417.0 / 461.5
417.5 / 461.0
418.0 / 460.5
418.5 / 460.0
419.0 / 459.5
419.5 / 459.0
420.0 / 458.5

Schmidt Plot - LH - Type
Depth: 415.00 [m] to 420.00 [m]
0°
180°

	Counts	Dip[deg]	Azi[deg]
Mean	65	19.43	128.46
	45	25.11	151.81
	12	78.14	82.30
	3	22.42	132.85
	4	24.06	288.33
	1	71.35	47.64

413 414 415 416 417 418 419

Depth		Image Logs			Structural Data					Core
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 90	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

Depth: 420.0 to 427.0 m (1m:20m)

AHD: 458.0, 457.5, 457.0, 456.5, 456.0, 455.5, 455.0, 454.5, 454.0, 453.5, 453.0, 452.5, 452.0, 451.5

Schmidt Plot - LH - Type
Depth: 420.00 [m] to 425.00 [m]

	Counts	Dip[deg]	Azi[deg]
Mean	45	30.25	59.74
●	18	76.52	47.55
■	13	17.95	137.20
●	12	43.74	21.19
●	2	84.59	235.93

Schmidt Plot - LH - Type
Depth: 425.00 [m] to 430.00 [m]

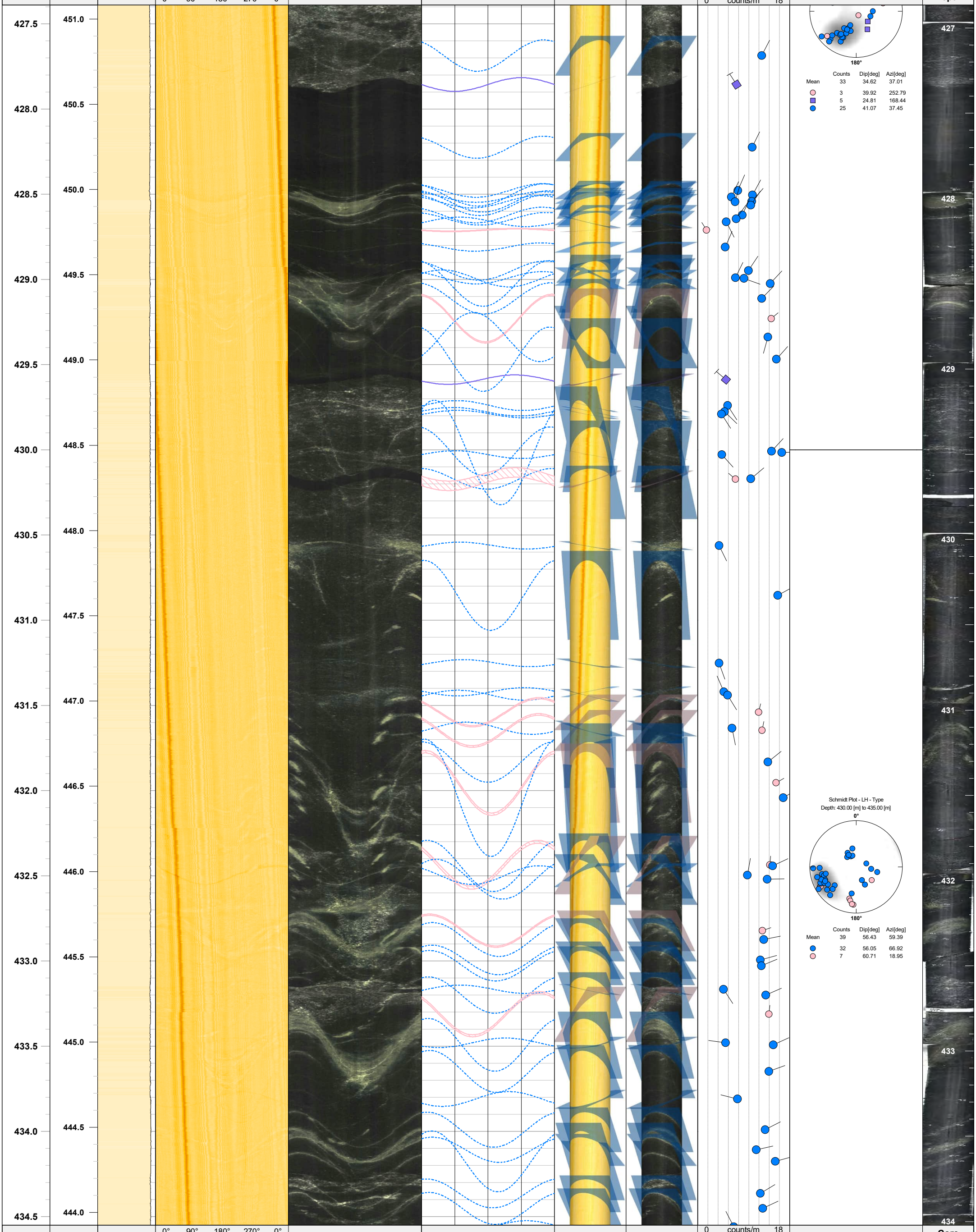
Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

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Depth		Image Logs			Structural Data						Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type		Core Depth



Depth		Image Logs			Structural Data						Core
1m:20m	AHD		0° 90° 180° 270° 0° 500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 90	Schmidt Plot - LH - Type		Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

435.0 443.5
435.5 443.0
436.0 442.5
436.5 442.0
437.0 441.5
437.5 441.0
438.0 440.5
438.5 440.0
439.0 439.5
439.5 439.0
440.0 438.5
440.5 438.0
441.0 437.5
441.5 437.0

Schmidt Plot - LH - Type
Depth: 435.00 [m] to 440.00 [m]
0°
180°

	Counts	Dip[deg]	Azi[deg]
Mean	33	66.24	67.02
	29	65.53	66.98
	4	84.98	72.90

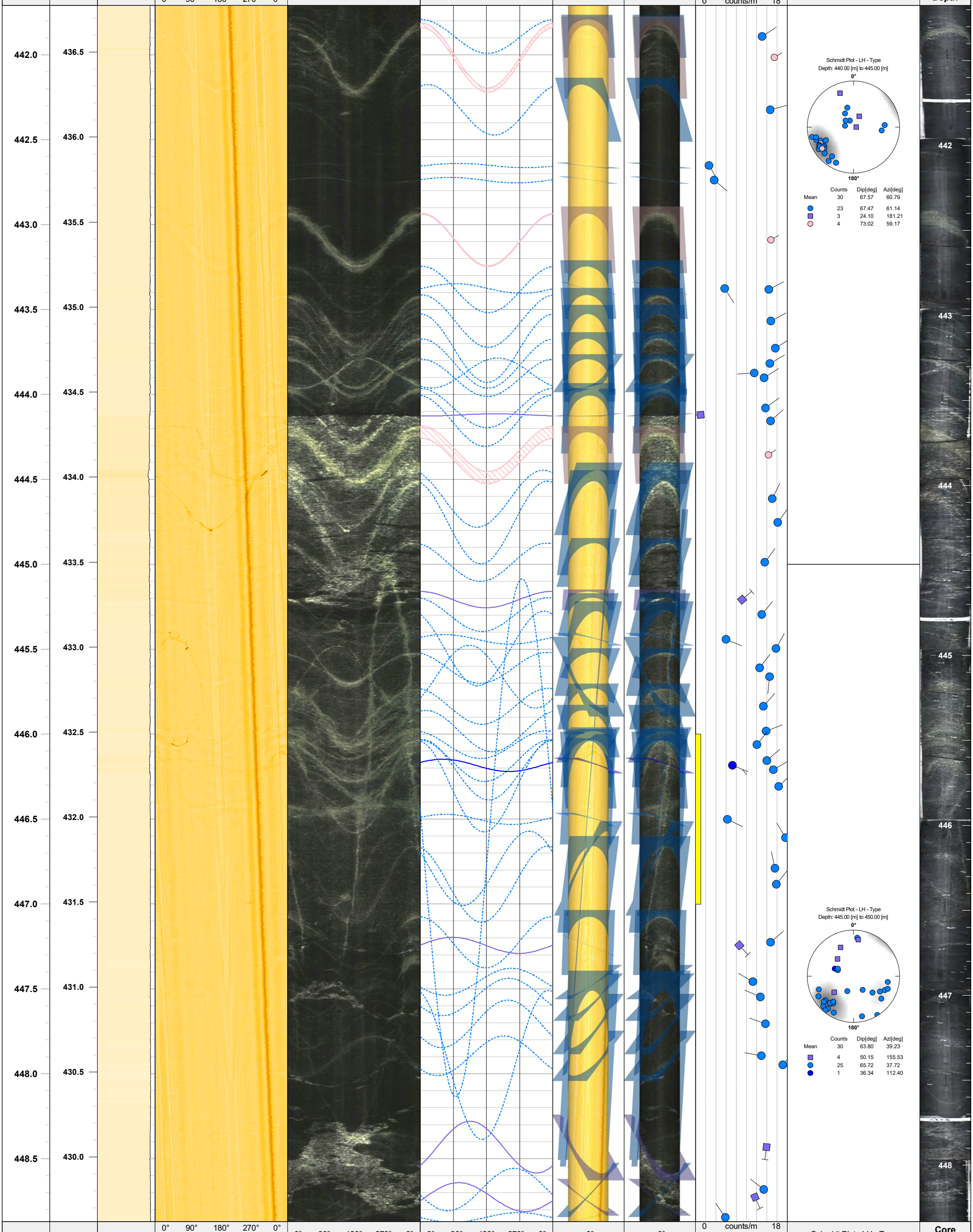
435 436 437 438 439 440 441

1m:20m AHD Depth RL m Reflectivity Amplitude-HS HPF 500 7200 0° 90° 180° 270° 0° Image-HS PROC 0° 90° 180° 270° 0° Apparent Structures 0° 90° 180° 270° 0° 3D ATV -0° 3D OTV -0° Structures - TN 0 90 Freq/metre 0 counts/m 18 Stereoplots Schmidt Plot - LH - Type Core Depth Core Photo
Depth Image Logs Structural Data Core
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Depth		Image Logs			Structural Data						Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo
1m:20m	AHD		500 7200					0 90			Core Depth
			0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	Freq/metre	Schmidt Plot - LH - Type		
								0 counts/m 18			



1m:20m	AHD		0° 90° 180° 270° 0° 500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 90	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
Depth		Image Logs			Structural Data					Core

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

449.0 / 429.5
449.5 / 429.0
450.0 / 428.5
450.5 / 428.0
451.0 / 427.5
451.5 / 427.0
452.0 / 426.5
452.5 / 426.0
453.0 / 425.5
453.5 / 425.0
454.0 / 424.5
454.5 / 424.0
455.0 / 423.5
455.5 / 423.0
456.0 / 422.5

Schmidt Plot - LH - Type
Depth: 450.00 [m] to 455.00 [m]

0°

180°

	Counts	Dip[deg]	Azi[deg]
Mean	41	39.80	62.71
	3	27.56	351.60
	33	45.54	71.46
	5	29.24	31.55

449
450
451
452
453
454
455

Depth		Image Logs			Structural Data					Core
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

456.5 422.0
457.0 421.5
457.5 421.0
458.0 420.5
458.5 420.0
459.0 419.5
459.5 419.0
460.0 418.5
460.5 418.0
461.0 417.5
461.5 417.0
462.0 416.5
462.5 416.0
463.0 415.5

Schmidt Plot - LH - Type
Depth: 455.00 [m] to 460.00 [m]
0°
180°

	Counts	Dip[deg]	Azi[deg]
Mean	69	30.79	67.47
	53	30.03	71.66
	9	45.58	44.17
	5	34.48	97.84
	2	17.29	338.36

Schmidt Plot - LH - Type
Depth: 460.00 [m] to 465.00 [m]
0°
180°

	Counts	Dip[deg]	Azi[deg]
Mean	46	43.85	107.59
	38	48.76	106.83
	1	6.08	304.83
	3	48.71	115.03
	4	12.82	117.76

1m:20m AHD Reflectivity 0° 90° 180° 270° 0° 500 7200 Amplitude-HS HPF 0° 90° 180° 270° 0° Image-HS PROC 0° 90° 180° 270° 0° Apparent Structures -0° 3D ATV -0° 3D OTV 0 counts/m 18 Freq/metre 0 90 Structures - TN Schmidt Plot - LH - Type Stereoplots Core Depth Core Photo
Depth RL m Reflectivity Amplitude-HS HPF Image-HS PROC Apparent Structures 3D ATV 3D OTV Structures - TN Stereoplots Core Photo
Depth Image Logs Structural Data Core
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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth
463.5	415.0									463
464.0	414.5									
464.5	414.0									464
465.0	413.5									
465.5	413.0									465
466.0	412.5									
466.5	412.0									466
467.0	411.5									
467.5	411.0									467
468.0	410.5									
468.5	410.0									468
469.0	409.5									
469.5	409.0									469
470.0	408.5									

Schmidt Plot - LH - Type
Depth: 465.00 [m] to 470.00 [m]

0°

180°

	Counts	Dip[deg]	Azi[deg]
Mean	42	60.62	59.47
	33	57.43	63.77
	6	74.89	51.55
	2	18.46	97.14
	1	52.03	320.70

1m:20m | AHD | Reflectivity | 500 7200 0° 90° 180° 270° 0° | 0° 90° 180° 270° 0° | 0° 90° 180° 270° 0° | -0° | -0° | 0 counts/m 18 Freq/metre 0 90 | Schmidt Plot - LH - Type | Core Depth
Depth | RL m | Amplitude-HS HPF | Image-HS PROC | Apparent Structures | 3D ATV | 3D OTV | Structures - TN | Stereoplots | Core Photo
Depth | Image Logs | Structural Data | Core
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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

470.5 408.0
471.0 407.5
471.5 407.0
472.0 406.5
472.5 406.0
473.0 405.5
473.5 405.0
474.0 404.5
474.5 404.0
475.0 403.5
475.5 403.0
476.0 402.5
476.5 402.0
477.0 401.5

Schmidt Plot - LH - Type
Depth: 470.00 [m] to 475.00 [m]
0°
180°

	Counts	Dip[deg]	Azi[deg]
Mean	75	58.08	65.93
	7	68.53	65.01
	62	56.80	68.64
	4	21.81	339.30
	2	62.74	214.70

Schmidt Plot - LH - Type
Depth: 475.00 [m] to 480.00 [m]
0°

470 471 472 473 474 475 476

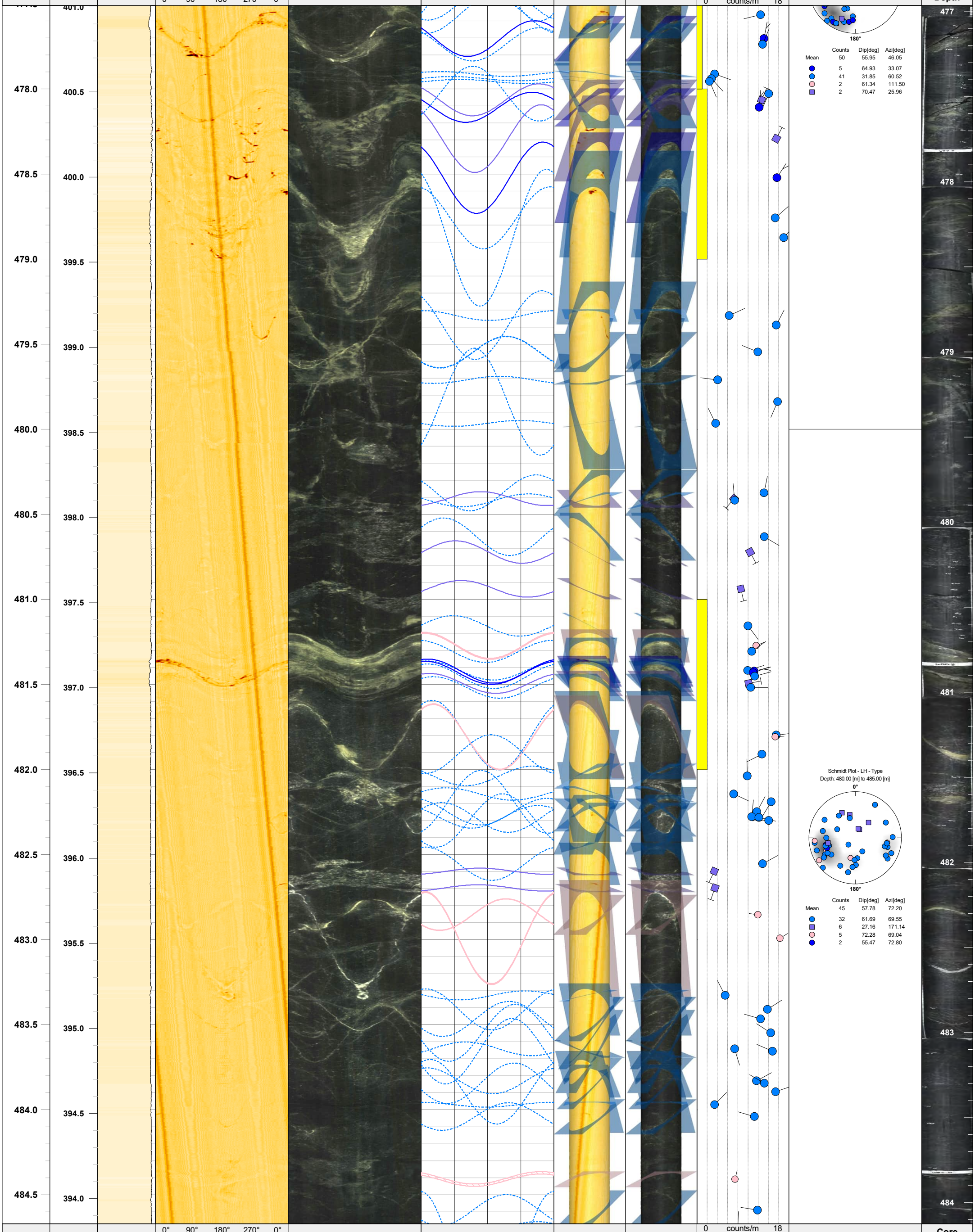
Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



Depth		Image Logs			Structural Data					Core
1m:20m	AHD		0° 90° 180° 270° 0° 500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 90	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 – 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 – 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

485.0 / 393.5
485.5 / 393.0
486.0 / 392.5
486.5 / 392.0
487.0 / 391.5
487.5 / 391.0
488.0 / 390.5
488.5 / 390.0
489.0 / 389.5
489.5 / 389.0
490.0 / 388.5
490.5 / 388.0
491.0 / 387.5
491.5 / 387.0

Schmidt Plot - LH - Type
Depth: 485.00 [m] to 490.00 [m]

0°

180°

	Counts	Dip[deg]	Azi[deg]
Mean	40	82.29	242.74
	4	6.91	180.81
	2	60.12	19.48
	34	83.68	244.98

485 / 486 / 487 / 488 / 489 / 490 / 491

1m:20m AHD Depth RL m Reflectivity 0° 90° 180° 270° 0° 500 – 7200 Amplitude-HS HPF 0° 90° 180° 270° 0° Image-HS PROC 0° 90° 180° 270° 0° Apparent Structures -0° 3D ATV -0° 3D OTV 0 counts/m 18 Freq/metre 0 – 90 Structures - TN Schmidt Plot - LH - Type Stereoplots Core Depth Core Photo

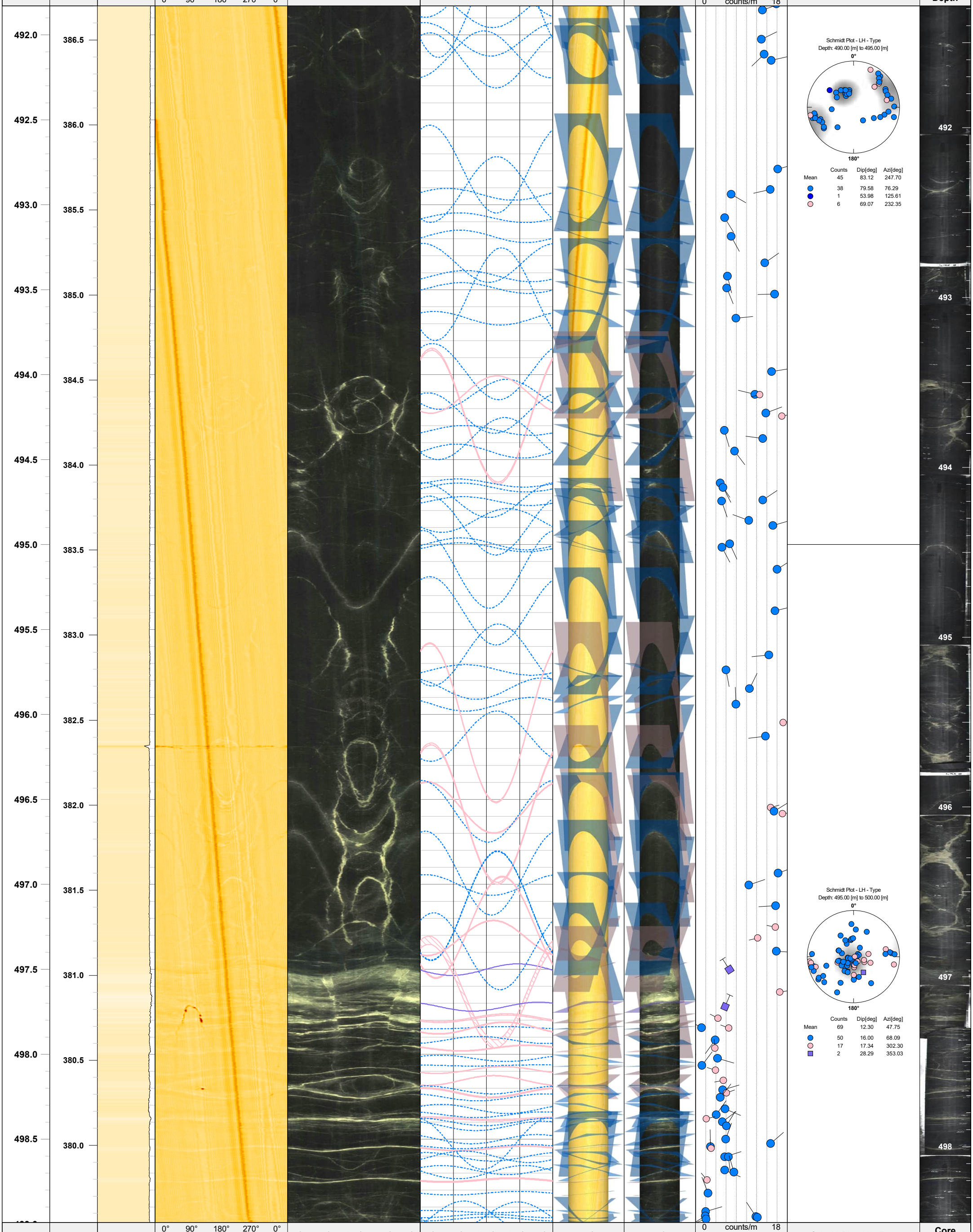
Depth Image Logs Structural Data Core

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 – 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 – 90 Freq/metre; 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 – 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 – 90 Freq/metre; 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

499.0 379.5
499.5 379.0
500.0 378.5
500.5 378.0
501.0 377.5
501.5 377.0
502.0 376.5
502.5 376.0
503.0 375.5
503.5 375.0
504.0 374.5
504.5 374.0
505.0 373.5
505.5 373.0
506.0 372.5

Schmidt Plot - LH - Type
Depth: 500.00 [m] to 505.00 [m]

0°
180°

	Counts	Dip[deg]	Azi[deg]
Mean	68	21.47	247.46
	51	19.93	275.96
	13	33.23	191.57
	2	82.48	163.08
	2	47.15	246.31

499 500 501 502 503 504 505

1m:20m AHD Reflectivity 0° 90° 180° 270° 0° 500 7200 Amplitude-HS HPF 0° 90° 180° 270° 0° Image-HS PROC 0° 90° 180° 270° 0° Apparent Structures -0° 3D ATV -0° 3D OTV 0 counts/m 18 Freq/metre 0 90 Structures - TN Schmidt Plot - LH - Type Stereoplots Core Depth Core Photo
Depth RL m Reflectivity Amplitude-HS HPF Image-HS PROC Apparent Structures 3D ATV 3D OTV Structures - TN Stereoplots Core Photo
Depth Image Logs Structural Data Core
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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

506.5 372.0
507.0 371.5
507.5 371.0
508.0 370.5
508.5 370.0
509.0 369.5
509.5 369.0
510.0 368.5
510.5 368.0
511.0 367.5
511.5 367.0
512.0 366.5
512.5 366.0
513.0 365.5

Schmidt Plot - LH - Type
Depth: 505.00 [m] to 510.00 [m]
0° 180°

	Counts	Dip[deg]	Azi[deg]
Mean	48	20.08	353.12
	41	19.72	349.11
	5	72.57	52.15
	1	74.90	138.68
	1	33.16	154.74

Schmidt Plot - LH - Type
Depth: 510.00 [m] to 515.00 [m]
0° 180°

	Counts	Dip[deg]	Azi[deg]
Mean	43	83.67	270.49
	32	85.60	275.03
	4	77.66	214.80
	7	76.19	265.96

506 507 508 509 510 511 512

1m:20m AHD Depth RL m Reflectivity Amplitude-HS HPF 500 7200 0° 90° 180° 270° 0° Image-HS PROC 0° 90° 180° 270° 0° Apparent Structures 0° 90° 180° 270° 0° 3D ATV -0° 3D OTV -0° 0 counts/m 18 Freq/metre 0 90 Structures - TN Schmidt Plot - LH - Type Stereoplots Core Depth Core Photo

Depth Image Logs Structural Data Core

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

513.5 365.0
514.0 364.5
514.5 364.0
515.0 363.5
515.5 363.0
516.0 362.5
516.5 362.0
517.0 361.5
517.5 361.0
518.0 360.5
518.5 360.0
519.0 359.5
519.5 359.0
520.0 358.5

513 514 515 516 517 518 519

Schmidt Plot - LH - Type
Depth: 515.00 [m] to 520.00 [m]
0° 180°

	Counts	Dip[deg]	Azi[deg]
Mean	43	86.50	266.11
	33	88.63	89.76
	5	86.73	292.93
	4	58.45	232.90
	1	54.27	56.52

1m:20m AHD Depth RL m Reflectivity Amplitude-HS HPF 500 7200 0° 90° 180° 270° 0° Image-HS PROC 0° 90° 180° 270° 0° Apparent Structures 0° 90° 180° 270° 0° 3D ATV -0° 3D OTV -0° 0 counts/m 18 Freq/metre 0 90 Structures - TN Schmidt Plot - LH - Type Stereoplots Core Depth Core Photo

Depth	Image Logs	Structural Data	Core

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 – 7200 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 – 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

520.5 / 358.0
521.0 / 357.5
521.5 / 357.0
522.0 / 356.5
522.5 / 356.0
523.0 / 355.5
523.5 / 355.0
524.0 / 354.5
524.5 / 354.0
525.0 / 353.5
525.5 / 353.0
526.0 / 352.5
526.5 / 352.0
527.0 / 351.5
527.5 / 351.0

Schmidt Plot - LH - Type
Depth: 520.00 [m] to 525.00 [m]
0°
180°

	Counts	Dip[deg]	Azi[deg]
Mean	75	65.83	86.85
	38	31.29	83.46
	34	80.34	95.71
	1	31.10	150.09
	2	31.47	2.39

Schmidt Plot - LH - Type
Depth: 525.00 [m] to 530.00 [m]
0°

520 / 521 / 522 / 523 / 524 / 525 / 526 / 527

Depth | Image Logs | Structural Data | Core
Depth | RL m | Reflectivity | Amplitude-HS HPF | Image-HS PROC | Apparent Structures | 3D ATV | 3D OTV | Structures - TN | Stereoplots | Core Photo
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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

528.0 / 350.5
528.5 / 350.0
529.0 / 349.5
529.5 / 349.0
530.0 / 348.5
530.5 / 348.0
531.0 / 347.5
531.5 / 347.0
532.0 / 346.5
532.5 / 346.0
533.0 / 345.5
533.5 / 345.0
534.0 / 344.5
534.5 / 344.0

Stereoplots (Schmidt Plot - LH - Type):

	Counts	Dip[deg]	Azi[deg]
Mean	51	78.49	252.71
	20	88.24	260.04
	26	67.25	256.47
	5	82.90	29.51

Schmidt Plot - LH - Type
Depth: 530.00 [m] to 535.00 [m]

	Counts	Dip[deg]	Azi[deg]
Mean	15	85.84	245.48
	9	25.73	257.04
	4	79.66	56.71
	1	69.04	268.22
	1	69.64	267.12

Core: 528 529 530 531 532 533 534

Depth | Image Logs | Structural Data | Core
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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

535.0 / 343.5
535.5 / 343.0
536.0 / 342.5
536.5 / 342.0
537.0 / 341.5
537.5 / 341.0
538.0 / 340.5
538.5 / 340.0
539.0 / 339.5
539.5 / 339.0
540.0 / 338.5
540.5 / 338.0
541.0 / 337.5
541.5 / 337.0

Schmidt Plot - LH - Type
Depth: 535.00 [m] to 540.00 [m]
0°
180°

	Counts	Dip[deg]	Azi[deg]
Mean	40	65.29	26.16
	22	73.24	359.47
	1	65.81	246.93
	1	71.27	251.63
	15	84.03	262.82
	1	52.92	227.98

535
536
537
538
539
540
541

1m:20m AHD Depth RL m Reflectivity Amplitude-HS HPF 500 7200 0° 90° 180° 270° 0° Image-HS PROC 0° 90° 180° 270° 0° Apparent Structures 0° 90° 180° 270° 0° 3D ATV -0° 3D OTV -0° Structures - TN 0 90 Freq/metre 0 counts/m 18 Stereoplots Schmidt Plot - LH - Type Core Depth Core Photo
Depth Image Logs Structural Data Core
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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 – 7200 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 – 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

542.0 / 336.5
542.5 / 336.0
543.0 / 335.5
543.5 / 335.0
544.0 / 334.5
544.5 / 334.0
545.0 / 333.5
545.5 / 333.0
546.0 / 332.5
546.5 / 332.0
547.0 / 331.5
547.5 / 331.0
548.0 / 330.5
548.5 / 330.0
549.0 / 329.5

Schmidt Plot - LH - Type
Depth: 540.00 [m] to 545.00 [m]
0°
180°

	Counts	Dip[deg]	Azi[deg]
Mean	49	85.53	77.35
	8	73.27	100.43
	39	88.79	256.33
	1	67.63	3.72
	1	32.61	316.57

Schmidt Plot - LH - Type
Depth: 545.00 [m] to 550.00 [m]
0°
180°

	Counts	Dip[deg]	Azi[deg]
Mean	55	74.78	265.20
	36	72.81	252.67
	2	42.98	159.41
	17	80.04	286.87

542 / 543 / 544 / 545 / 546 / 547 / 548

1m:20m	AHD		0° 90° 180° 270° 0° 500 – 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 – 90	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
Depth		Image Logs			Structural Data					Core
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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

549.5 329.0
550.0 328.5
550.5 328.0
551.0 327.5
551.5 327.0
552.0 326.5
552.5 326.0
553.0 325.5
553.5 325.0
554.0 324.5
554.5 324.0
555.0 323.5
555.5 323.0
556.0 322.5

Schmidt Plot - LH - Type
Depth: 550.00 [m] to 555.00 [m]
0°
180°

	Counts	Dip[deg]	Azi[deg]
Mean	38	78.11	76.13
	30	82.72	78.61
	4	63.74	62.12
	3	84.57	83.72
	1	74.05	76.56

549 550 551 552 553 554 555

Depth		Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Depth
1m:20m	AHD		0° 90° 180° 270° 0° 500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 90	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
Depth		Image Logs			Structural Data					Core
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Depth		Image Logs			Structural Data						Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type		Core Depth

556.5 322.0
557.0 321.5
557.5 321.0
558.0 320.5
558.5 320.0
559.0 319.5
559.5 319.0
560.0 318.5
560.5 318.0
561.0 317.5
561.5 317.0
562.0 316.5
562.5 316.0
563.0 315.5

Schmidt Plot - LH - Type
Depth: 555.00 [m] to 560.00 [m]
0°
180°

	Counts	Dip[deg]	Azi[deg]
Mean	54	23.79	331.05
	44	26.62	317.76
	3	27.03	12.79
	6	75.35	52.62
	1	25.75	120.97

Schmidt Plot - LH - Type
Depth: 560.00 [m] to 565.00 [m]
0°
180°

	Counts	Dip[deg]	Azi[deg]
Mean	46	80.79	41.83
	37	82.36	44.06
	2	82.74	303.90
	1	21.53	311.70
	6	80.01	34.46

556 557 558 559 560 561 562

Depth		Image Logs			Structural Data						Core
1m:20m	AHD		0° 90° 180° 270° 0° 500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 90	Schmidt Plot - LH - Type		Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo
Depth		Image Logs			Structural Data						Core

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

563.5 / 315.0
564.0 / 314.5
564.5 / 314.0
565.0 / 313.5
565.5 / 313.0
566.0 / 312.5
566.5 / 312.0
567.0 / 311.5
567.5 / 311.0
568.0 / 310.5
568.5 / 310.0
569.0 / 309.5
569.5 / 309.0
570.0 / 308.5
570.5

Schmidt Plot - LH - Type
Depth: 565.00 [m] to 570.00 [m]

	Counts	Dip[deg]	Azi[deg]
Mean	40	82.33	59.75
	29	88.87	73.06
	1	18.29	324.97
	7	89.89	196.52
	2	68.20	45.30
	1	62.99	48.13

563 564 565 566 567 568 569 570

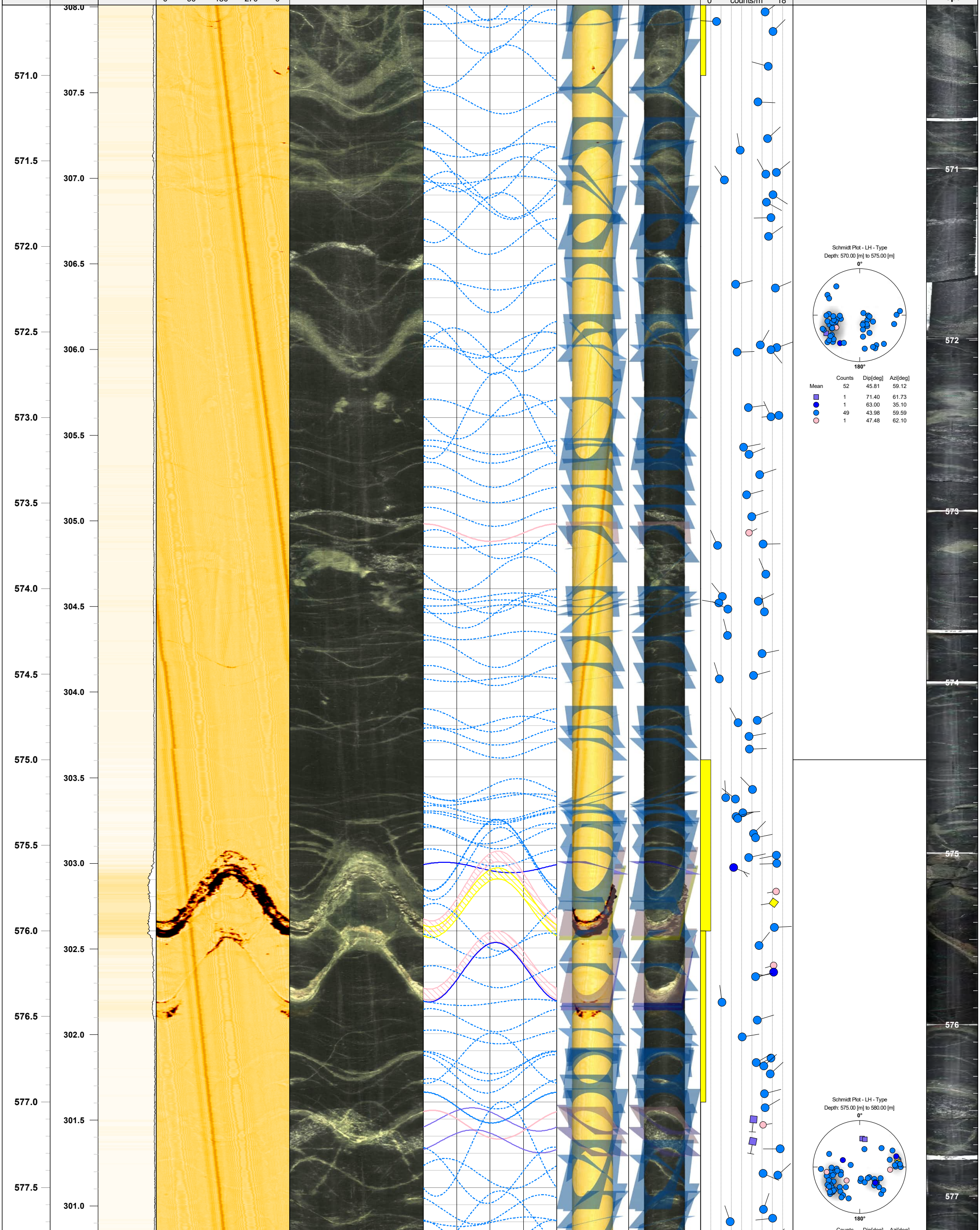
Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



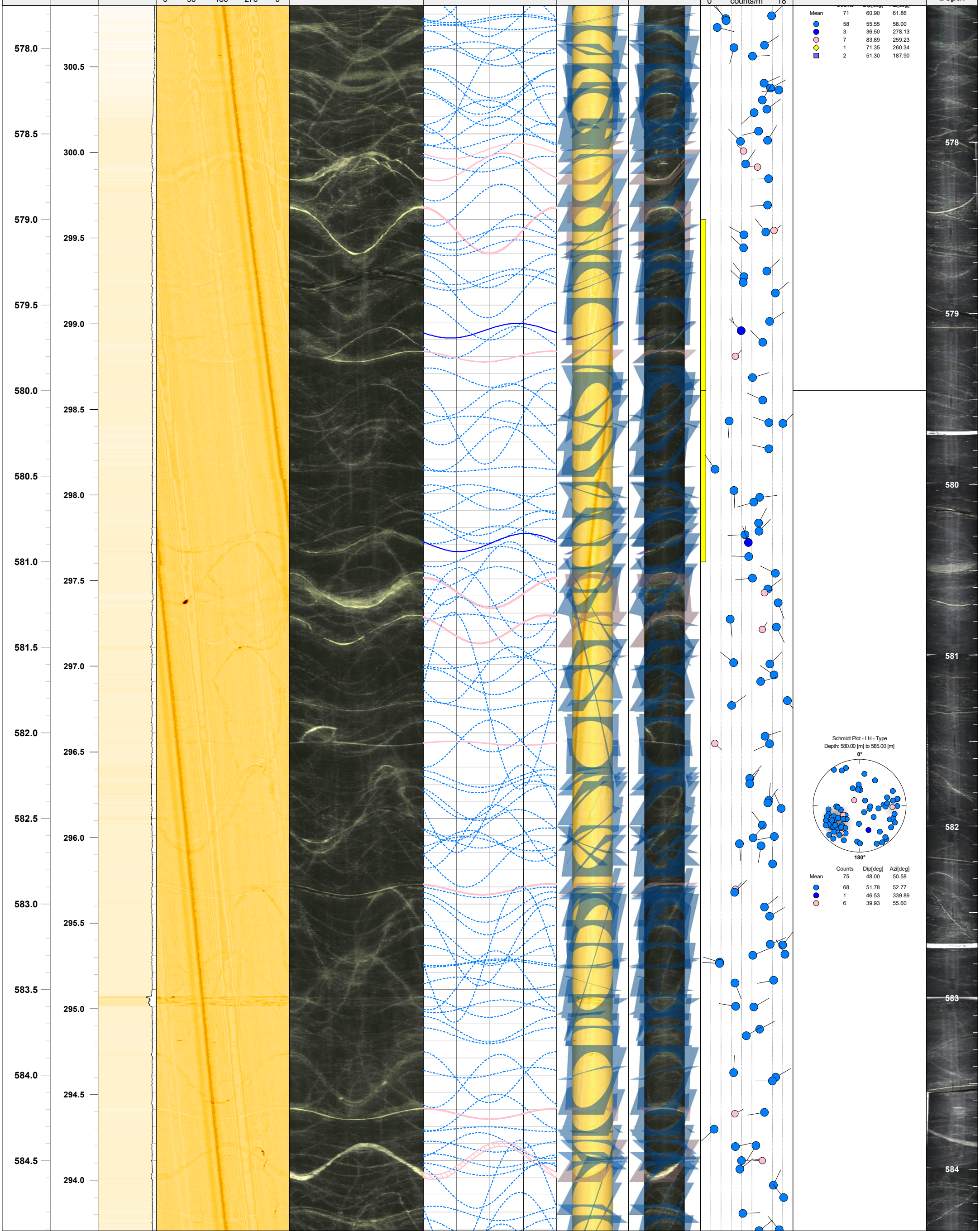
Depth		Image Logs			Structural Data					Core
1m:20m	AHD		0° 90° 180° 270° 0° 500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 90	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

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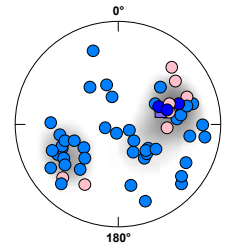
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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

585.0 / 293.5
585.5 / 293.0
586.0 / 292.5
586.5 / 292.0
587.0 / 291.5
587.5 / 291.0
588.0 / 290.5
588.5 / 290.0
589.0 / 289.5
589.5 / 289.0
590.0 / 288.5
590.5 / 288.0
591.0 / 287.5
591.5 / 287.0
592.0

Schmidt Plot - LH - Type
Depth: 585.00 [m] to 590.00 [m]



	Counts	Dip[deg]	Azi[deg]
Mean	57	29.38	276.73
	44	16.75	356.49
	9	56.42	243.00
	1	35.60	254.13
	3	43.24	250.57

585 586 587 588 589 590 591

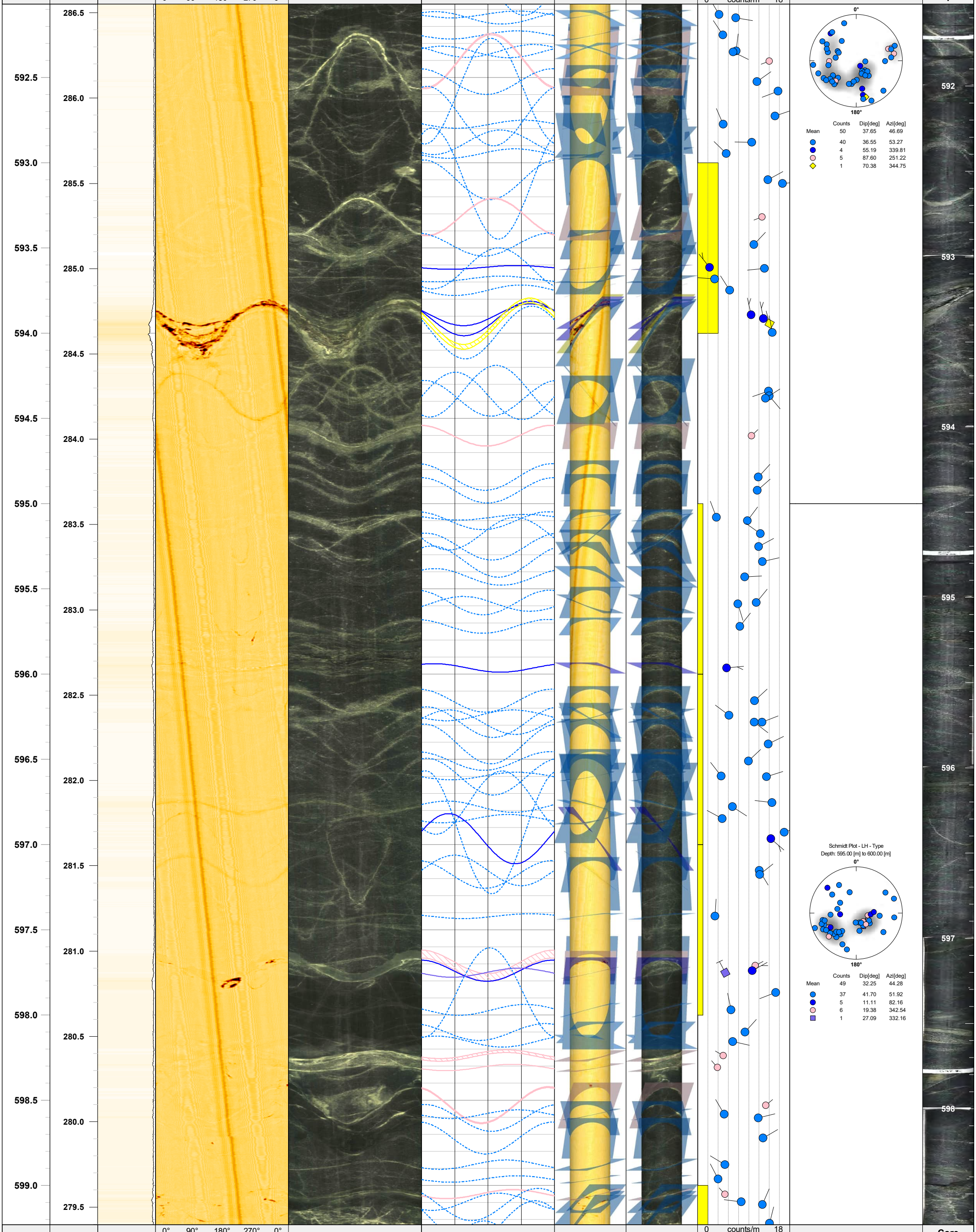
Depth		Image Logs			Structural Data					Core
1m:20m	AHD		0° 90° 180° 270° 0° 500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 90	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
Depth		Image Logs			Structural Data					Core

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 – 7200 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 – 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



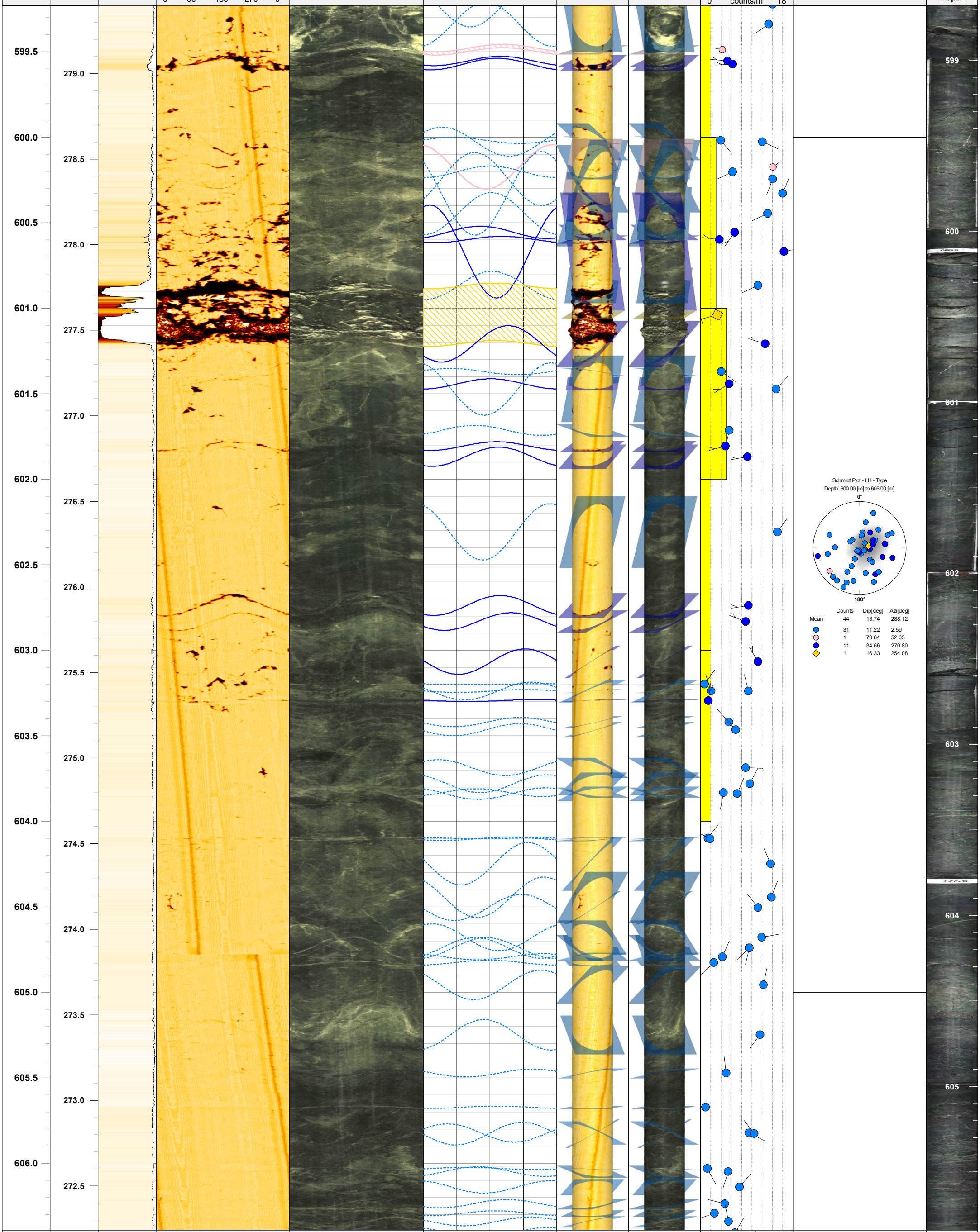
Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 – 7200 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 – 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



Schmidt Plot - LH - Type
Depth: 600.00 [m] to 605.00 [m]

	Counts	Dip[deg]	Azi[deg]
Mean	44	13.74	288.12
	31	11.22	2.59
	1	70.64	52.05
	11	34.66	270.80
	1	16.33	254.08

Depth		Image Logs			Structural Data					Core
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo

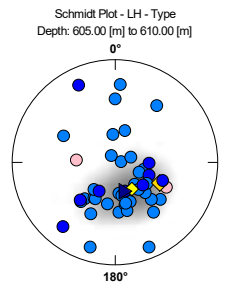
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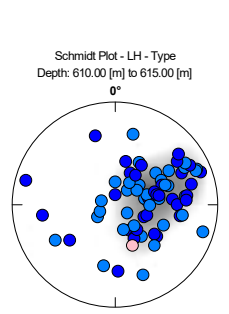
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Depth		Image Logs			Structural Data						Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type		Core Depth

606.5 — 272.0 — 607.0 — 271.5 — 607.5 — 271.0 — 608.0 — 270.5 — 608.5 — 270.0 — 609.0 — 269.5 — 609.5 — 269.0 — 610.0 — 268.5 — 610.5 — 268.0 — 611.0 — 267.5 — 611.5 — 267.0 — 612.0 — 266.5 — 612.5 — 266.0 — 613.0 — 265.5 — 613.5





606 607 608 609 610 611 612 613

Depth		Image Logs			Structural Data						Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type		Core Depth

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

Schmidt Plot - LH - Type
Depth: 615.00 [m] to 620.00 [m]

	Counts	Dip[deg]	Azi[deg]
Mean	98	31.77	310.95
	77	34.42	316.60
	3	36.76	320.97
	10	12.98	292.71
	8	71.38	273.13

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Depth		Image Logs			Structural Data						Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type		Core Depth
621.0	257.5										621
621.5	257.0										
622.0	256.5										622
622.5	256.0										
623.0	255.5										623
623.5	255.0										
624.0	254.5										624
624.5	254.0										
625.0	253.5										625
625.5	253.0										
626.0	252.5										626
626.5	252.0										
627.0	251.5										627
627.5	251.0										

Schmidt Plot - LH - Type
Depth: 620.00 [m] to 625.00 [m]
0°
180°

	Counts	Dip[deg]	Azi[deg]
Mean	81	38.61	285.98
	51	30.65	290.34
	17	80.48	272.32
	4	49.08	282.83
	9	38.90	293.51

Schmidt Plot - LH - Type
Depth: 625.00 [m] to 630.00 [m]
0°
180°

	Counts	Dip[deg]	Azi[deg]
Mean	47	37.40	286.36

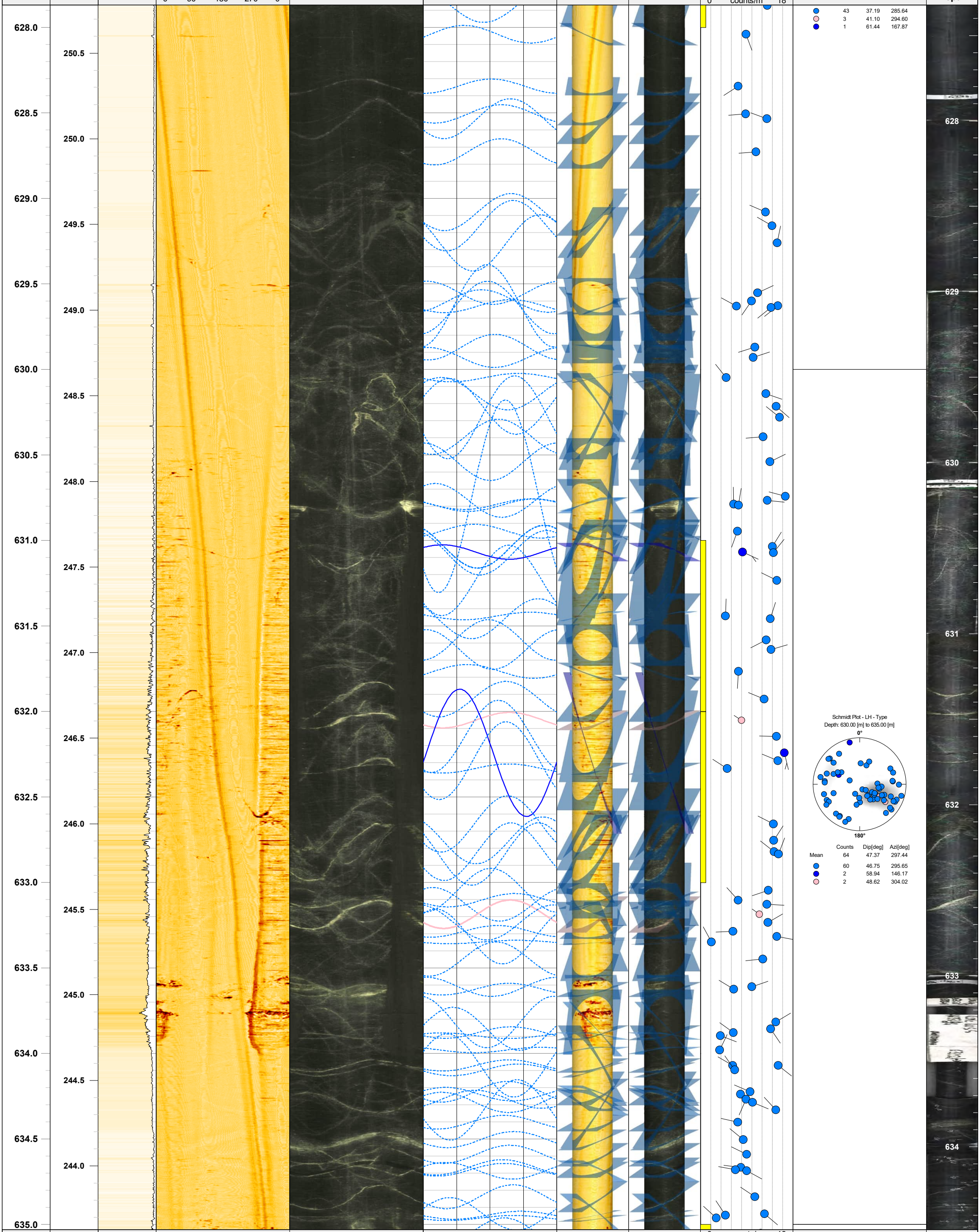
Depth		Image Logs			Structural Data						Core
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type		Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

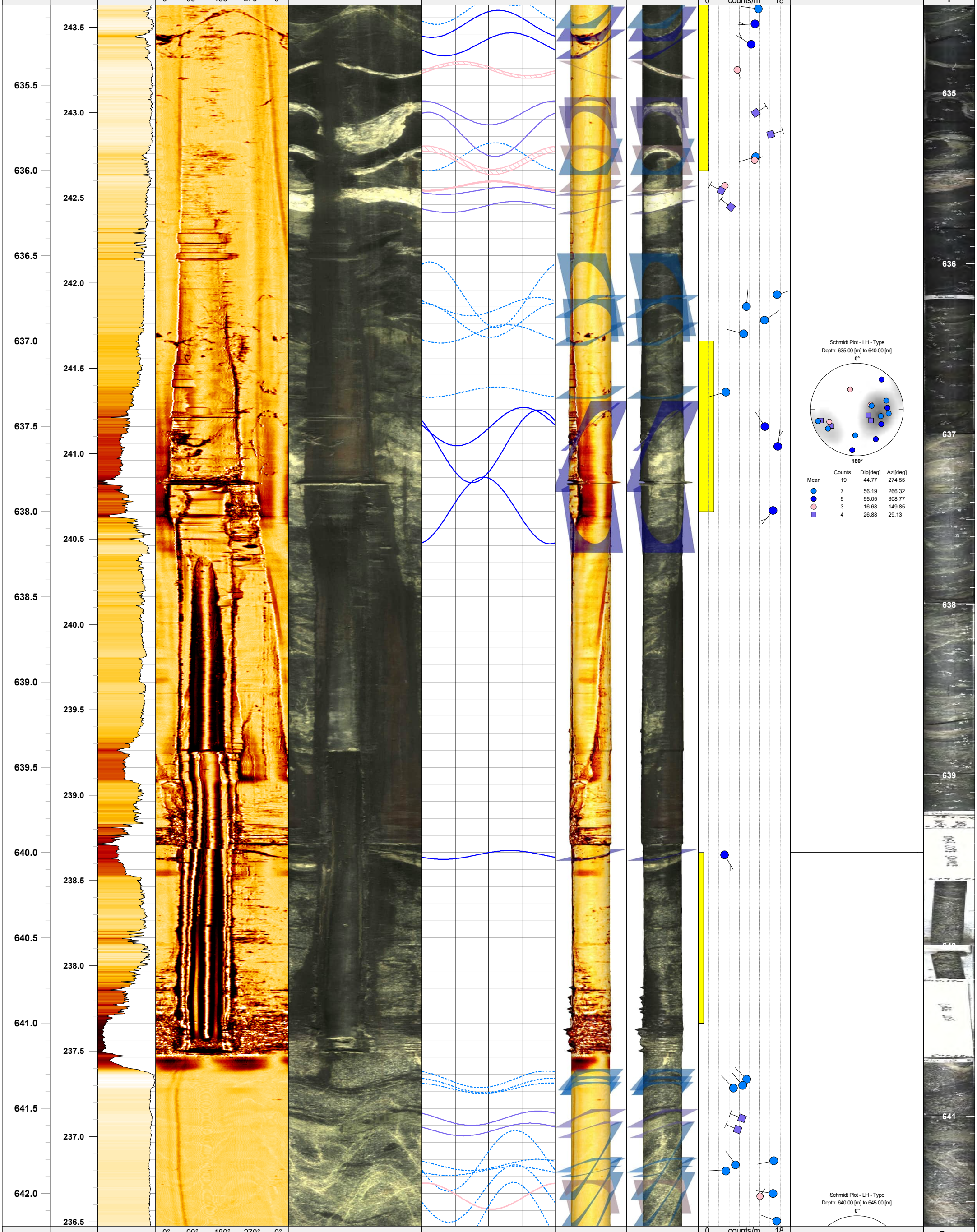
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Depth | **Image Logs** | **Structural Data** | **Core**

Depth (1m:20m) | RL m (AHD) | Reflectivity | Amplitude-HS HPF (500 – 7200; 0° 90° 180° 270° 0°) | Image-HS PROC (0° 90° 180° 270° 0°) | Apparent Structures (0° 90° 180° 270° 0°) | 3D ATV (-0°) | 3D OTV (-0°) | Structures - TN (0 – 90; Freq/metre; 0 counts/m 18) | Stereoplots (Schmidt Plot - LH - Type) | Core Photo | Core Depth



Depth (1m:20m) | RL m (AHD) | Reflectivity | Amplitude-HS HPF (500 – 7200; 0° 90° 180° 270° 0°) | Image-HS PROC (0° 90° 180° 270° 0°) | Apparent Structures (0° 90° 180° 270° 0°) | 3D ATV (-0°) | 3D OTV (-0°) | Structures - TN (0 – 90; Freq/metre; 0 counts/m 18) | Stereoplots (Schmidt Plot - LH - Type) | Core Depth | Core Photo

Depth | **Image Logs** | **Structural Data** | **Core**

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

642.5 / 236.0
643.0 / 235.5
643.5 / 235.0
644.0 / 234.5
644.5 / 234.0
645.0 / 233.5
645.5 / 233.0
646.0 / 232.5
646.5 / 232.0
647.0 / 231.5
647.5 / 231.0
648.0 / 230.5
648.5 / 230.0
649.0 / 229.5

Stereoplot 180°

	Counts	Dip[deg]	Azi[deg]
Mean	33	55.44	295.00
	1	25.76	149.65
	26	60.11	291.80
	2	40.37	290.86
	4	53.66	322.27

Core Depth: 642, 643, 644, 645, 646, 647, 648

Schmidt Plot - LH - Type
Depth: 645.00 [m] to 650.00 [m]
0° 180°

	Counts	Dip[deg]	Azi[deg]
Mean	42	44.63	288.89
	24	52.81	272.85
	17	38.18	321.60
	1	60.40	254.43

1m:20m AHD Depth RL m Reflectivity Amplitude-HS HPF 500 7200 0° 90° 180° 270° 0° Image-HS PROC 0° 90° 180° 270° 0° Apparent Structures 0° 90° 180° 270° 0° 3D ATV -0° 3D OTV -0° 0 counts/m 18 Freq/metre 0 90 Structures - TN Schmidt Plot - LH - Type Stereoplots Core Depth Core Photo Core

Depth Image Logs Structural Data Core
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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 – 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 – 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

649.5 / 229.0
650.0 / 228.5
650.5 / 228.0
651.0 / 227.5
651.5 / 227.0
652.0 / 226.5
652.5 / 226.0
653.0 / 225.5
653.5 / 225.0
654.0 / 224.5
654.5 / 224.0
655.0 / 223.5
655.5 / 223.0
656.0 / 222.5
656.5

Schmidt Plot - LH - Type
Depth: 650.00 [m] to 655.00 [m]
0°
180°

	Counts	Dip[deg]	Azi[deg]
Mean	36	68.53	276.34
	13	50.26	290.61
	19	87.88	261.93
	3	68.52	102.16
	1	46.02	187.14

649 / 650 / 651 / 652 / 653 / 654 / 655

1m:20m | AHD | Reflectivity | 0° 90° 180° 270° 0° 500 – 7200 Amplitude-HS HPF | 0° 90° 180° 270° 0° Image-HS PROC | 0° 90° 180° 270° 0° Apparent Structures | -0° 3D ATV | -0° 3D OTV | 0 counts/m 18 Freq/metre 0 – 90 Structures - TN | Schmidt Plot - LH - Type Stereoplots | Core Depth Core Photo
Depth | RL m | Image Logs | Structural Data | Core
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Depth		Image Logs			Structural Data						Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo
1m:20m	AHD		500 7200					0 90			Core Depth
			0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	Freq/metre	Schmidt Plot - LH - Type		
								0 counts/m 18			
657.0	222.0								Schmidt Plot - LH - Type Depth: 655.00 [m] to 660.00 [m] 0° 180°		656
657.5	221.5										657
658.0	221.0										
658.5	220.5										658
659.0	220.0										
659.5	219.5										659
660.0	219.0										
660.5	218.5										660
661.0	218.0										
661.5	217.5										661
662.0	217.0										
662.5	216.5								Schmidt Plot - LH - Type Depth: 660.00 [m] to 665.00 [m] 0° 180°		662
663.0	216.0										
663.5	215.5										663

	Counts	Dip[deg]	Azi[deg]
Mean	25	71.57	278.11
	11	56.82	280.07
	12	85.68	281.18
	1	73.93	90.73
	1	55.16	257.02

	Counts	Dip[deg]	Azi[deg]
Mean	36	46.52	287.45
	16	50.95	285.41
	18	39.93	295.25
	2	63.01	269.25

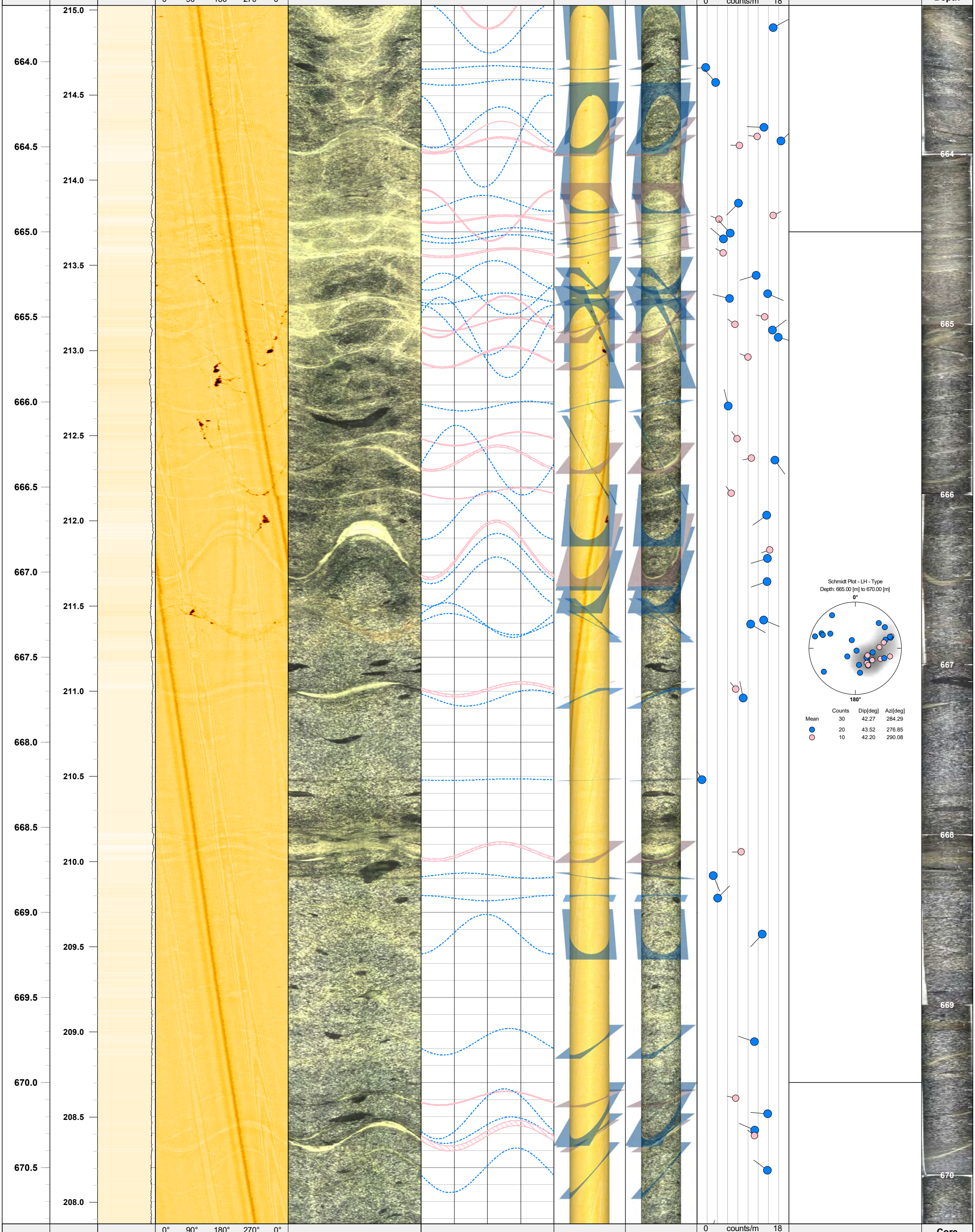
Depth		Image Logs			Structural Data						Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Depth
1m:20m	AHD		500 7200					0 90			Core Photo
			0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	Freq/metre	Schmidt Plot - LH - Type		
								0 counts/m 18			

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 – 7200 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 – 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



Schmidt Plot - LH - Type
Depth: 665.00 [m] to 670.00 [m]

0°

180°

	Counts	Dip[deg]	Azi[deg]
Mean	30	42.27	284.29
	20	43.52	276.85
	10	42.20	290.08

Depth		Image Logs			Structural Data					Core
1m:20m	AHD		0° 90° 180° 270° 0° 500 – 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 – 90	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
Depth		Image Logs			Structural Data					Core

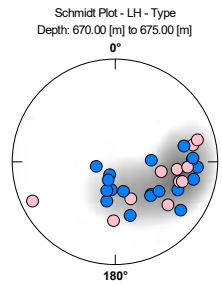
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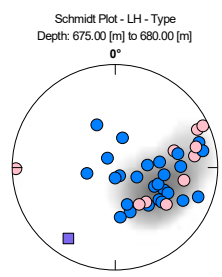
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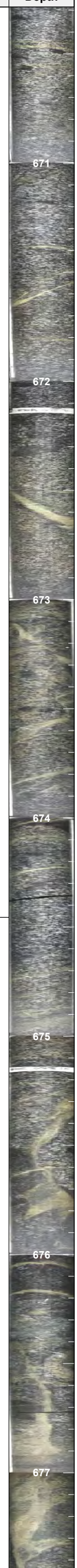
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Depth		Image Logs			Structural Data						Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo
1m:20m	AHD		500 7200					0 90			Core Depth
			0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	Freq/metre	Schmidt Plot - LH - Type		
								0 counts/m 18			

671.0 / 207.5 — 671.5 / 207.0 — 672.0 / 206.5 — 672.5 / 206.0 — 673.0 / 205.5 — 673.5 / 205.0 — 674.0 / 204.5 — 674.5 / 204.0 — 675.0 / 203.5 — 675.5 / 203.0 — 676.0 / 202.5 — 676.5 / 202.0 — 677.0 / 201.5 — 677.5 / 201.0







Depth		Image Logs			Structural Data						Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo
1m:20m	AHD		500 7200					0 90			Core Depth
			0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	Freq/metre	Schmidt Plot - LH - Type		
								0 counts/m 18			

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

678.0 / 200.5 · 678.5 / 200.0 · 679.0 / 199.5 · 679.5 / 199.0 · 680.0 / 198.5 · 680.5 / 198.0 · 681.0 / 197.5 · 681.5 / 197.0 · 682.0 / 196.5 · 682.5 / 196.0 · 683.0 / 195.5 · 683.5 / 195.0 · 684.0 / 194.5 · 684.5 / 194.0 · 685.0

Schmidt Plot - LH - Type
Depth: 680.00 [m] to 685.00 [m]

	Counts	Dip[deg]	Azi[deg]
Mean	57	14.97	250.95
	51	13.13	247.76
	6	25.60	261.49

1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 90	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
Depth		Image Logs			Structural Data					Core
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Depth | **Image Logs** | **Structural Data** | **Core**

Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo / Core Depth
1m:20m	AHD		500 – 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 – 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

Depth: 685.00 [m] to 690.00 [m]

	Counts	Dip[deg]	Azi[deg]
Mean	42	38.74	273.14
	11	41.72	265.67
	31	37.38	277.28

Depth: 690.00 [m] to 695.00 [m]

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

692.5 186.0 693.0 185.5 693.5 185.0 694.0 184.5 694.5 184.0 695.0 183.5 695.5 183.0 696.0 182.5 696.5 182.0 697.0 181.5 697.5 181.0 698.0 180.5 698.5 180.0 699.0 179.5

Schmidt Plot - LH - Type

	Counts	Dip[deg]	Azi[deg]
Mean	46	37.93	266.77
	36	37.47	262.61
	2	62.43	326.07
	8	42.96	276.13

Schmidt Plot - LH - Type
Depth: 695.00 [m] to 700.00 [m]

	Counts	Dip[deg]	Azi[deg]
Mean	28	29.11	286.55
	15	28.94	278.17
	13	29.18	292.40

692 693 694 695 696 697 698

Depth | Image Logs | Structural Data | Core
Depth | RL m | Reflectivity | Amplitude-HS HPF | Image-HS PROC | Apparent Structures | 3D ATV | 3D OTV | Structures - TN | Stereoplots | Core Photo
1m:20m | AHD | 0° 90° 180° 270° 0° 500 7200 | 0° 90° 180° 270° 0° | 0° 90° 180° 270° 0° | -0° | -0° | 0 counts/m 18 Freq/metre 0 90 | Schmidt Plot - LH - Type | Core Depth
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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 – 7200 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 – 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

699.5 / 179.0
700.0 / 178.5
700.5 / 178.0
701.0 / 177.5
701.5 / 177.0
702.0 / 176.5
702.5 / 176.0
703.0 / 175.5
703.5 / 175.0
704.0 / 174.5
704.5 / 174.0
705.0 / 173.5
705.5 / 173.0
706.0 / 172.5
706.5

Schmidt Plot - LH - Type
Depth: 700.00 [m] to 705.00 [m]
0°
180°

	Counts	Dip[deg]	Azi[deg]
Mean	19	45.33	266.60
	8	43.54	266.50
	11	47.00	266.74

699 700 701 702 703 704 705 706

Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		0° 90° 180° 270° 0° 500 – 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 – 90	Schmidt Plot - LH - Type	Core Depth

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Depth		Image Logs			Structural Data						Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo
1m:20m	AHD		500 7200					0 90			Core Depth
			0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	Freq/metre	Schmidt Plot - LH - Type		
								0 counts/m 18			

Depth: 172.0 – 707.0 – 171.5 – 707.5 – 171.0 – 708.0 – 170.5 – 708.5 – 170.0 – 709.0 – 169.5 – 709.5 – 169.0 – 710.0 – 168.5 – 710.5 – 168.0 – 711.0 – 167.5 – 711.5 – 167.0 – 712.0 – 166.5 – 712.5 – 166.0 – 713.0 – 165.5 – 713.5 – 165.0

Schmidt Plot - LH - Type
Depth: 705.00 [m] to 710.00 [m]
0° / 180°

	Counts	Dip[deg]	Azi[deg]
Mean	25	23.85	255.92
	21	25.74	251.28
	2	40.73	276.00
	2	5.40	242.71

Schmidt Plot - LH - Type
Depth: 710.00 [m] to 715.00 [m]
0° / 180°

	Counts	Dip[deg]	Azi[deg]
Mean	18	54.25	252.75
	6	55.23	259.72
	11	79.59	61.62
	1	48.35	277.03

Core Depth: 707 – 708 – 709 – 710 – 711 – 712 – 713

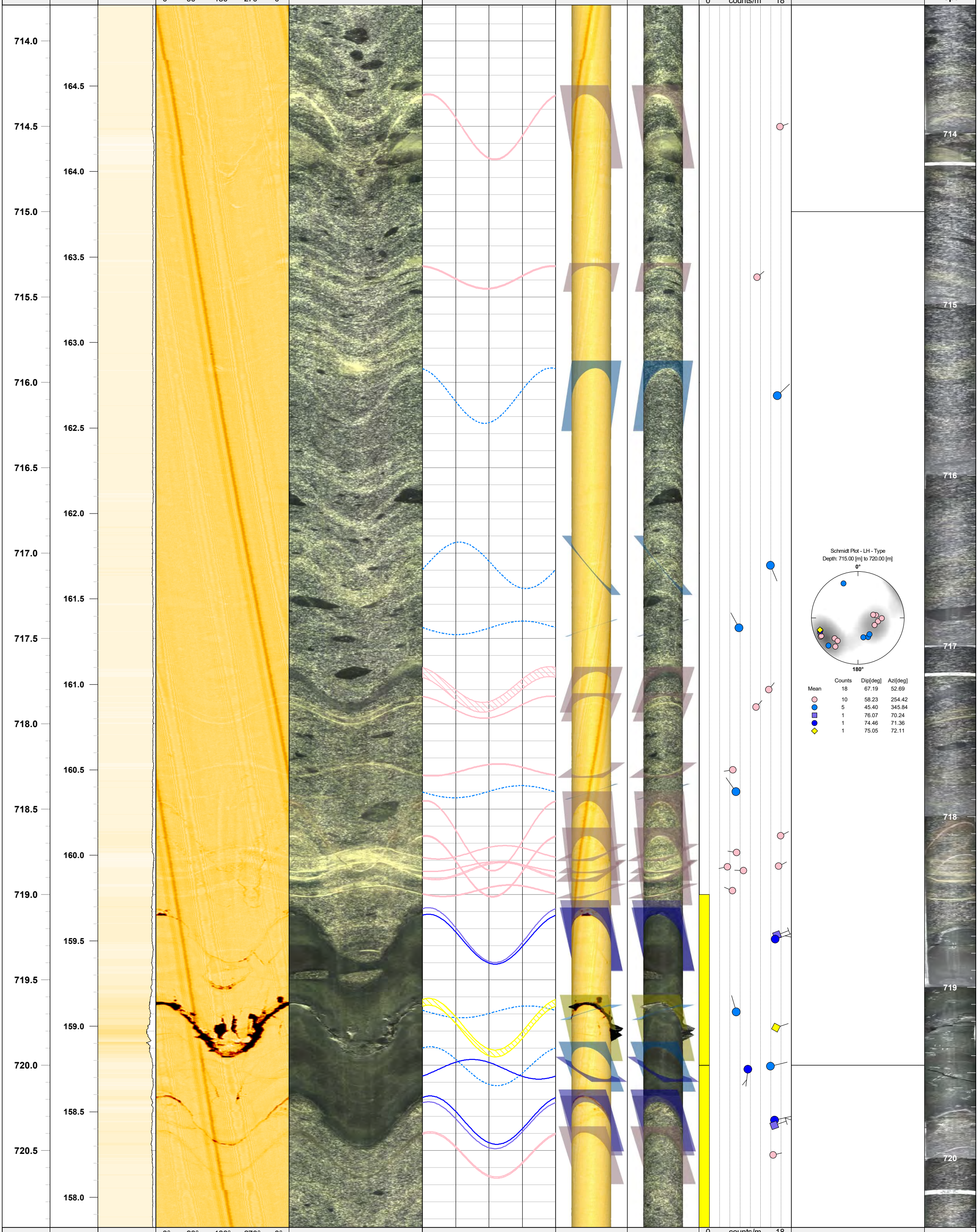
Depth		Image Logs			Structural Data						Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo
1m:20m	AHD		500 7200					0 90			Core Depth
			0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	Freq/metre	Schmidt Plot - LH - Type		
								0 counts/m 18			

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 – 7200 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 – 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



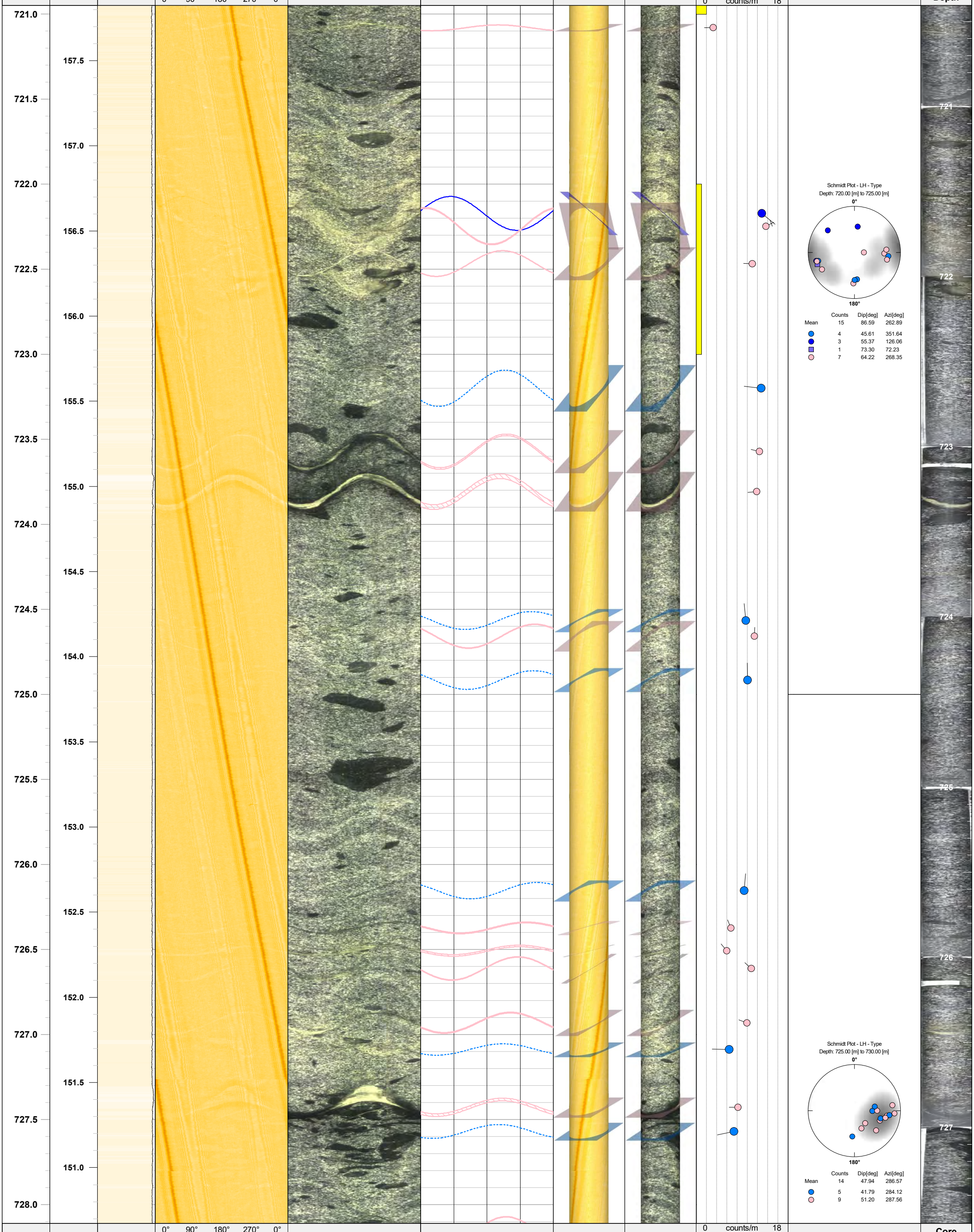
1m:20m	AHD		0° 90° 180° 270° 0° 500 – 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 – 90	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
Depth		Image Logs			Structural Data					Core

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



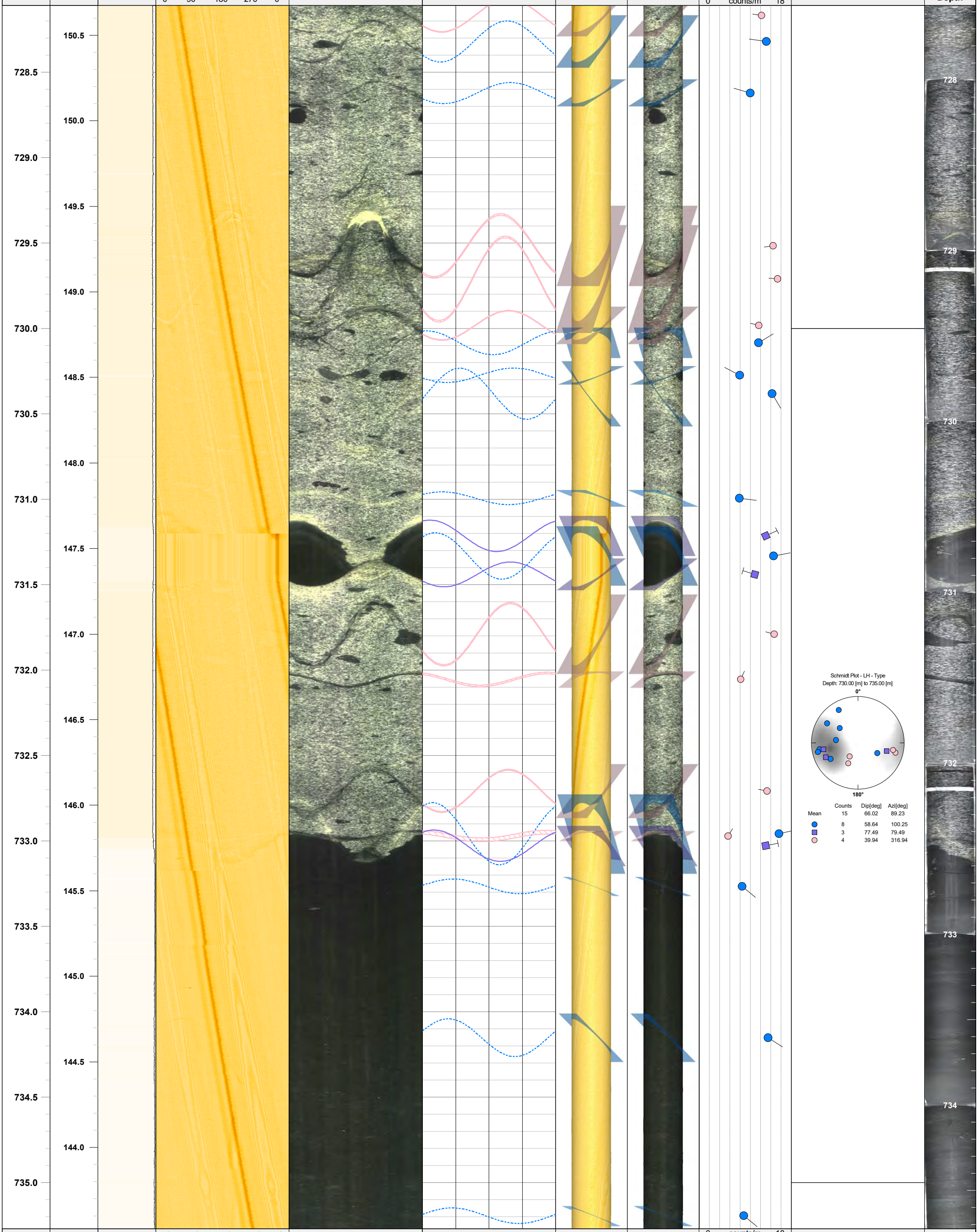
Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 – 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 – 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



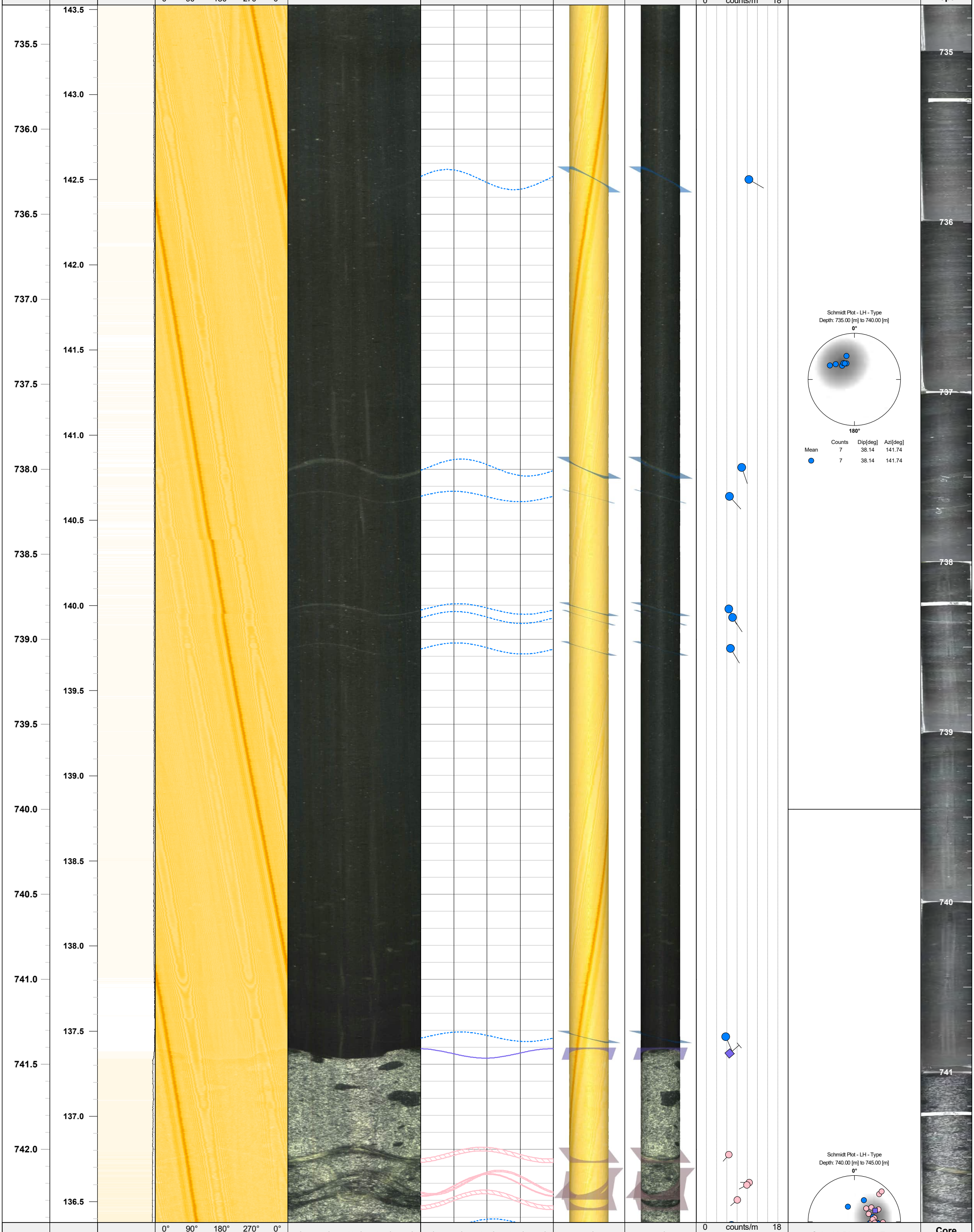
Depth		Image Logs			Structural Data					Core
1m:20m	AHD		0° 90° 180° 270° 0° 500 – 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 – 90	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

742.5 / 136.0 / 743.0 / 135.5 / 743.5 / 135.0 / 744.0 / 134.5 / 744.5 / 134.0 / 745.0 / 133.5 / 745.5 / 133.0 / 746.0 / 132.5 / 746.5 / 132.0 / 747.0 / 131.5 / 747.5 / 131.0 / 748.0 / 130.5 / 748.5 / 130.0 / 749.0 / 129.5 / 749.5

Stereoplots:

	Counts	Dip[deg]	Azi[deg]
Mean	24	36.27	259.77
	8	33.18	277.34
	3	26.75	265.33
	13	40.58	252.66

Schmidt Plot - LH - Type
Depth: 745.00 [m] to 750.00 [m]

	Counts	Dip[deg]	Azi[deg]
Mean	19	47.15	253.76
	6	71.27	249.98
	13	38.11	257.43

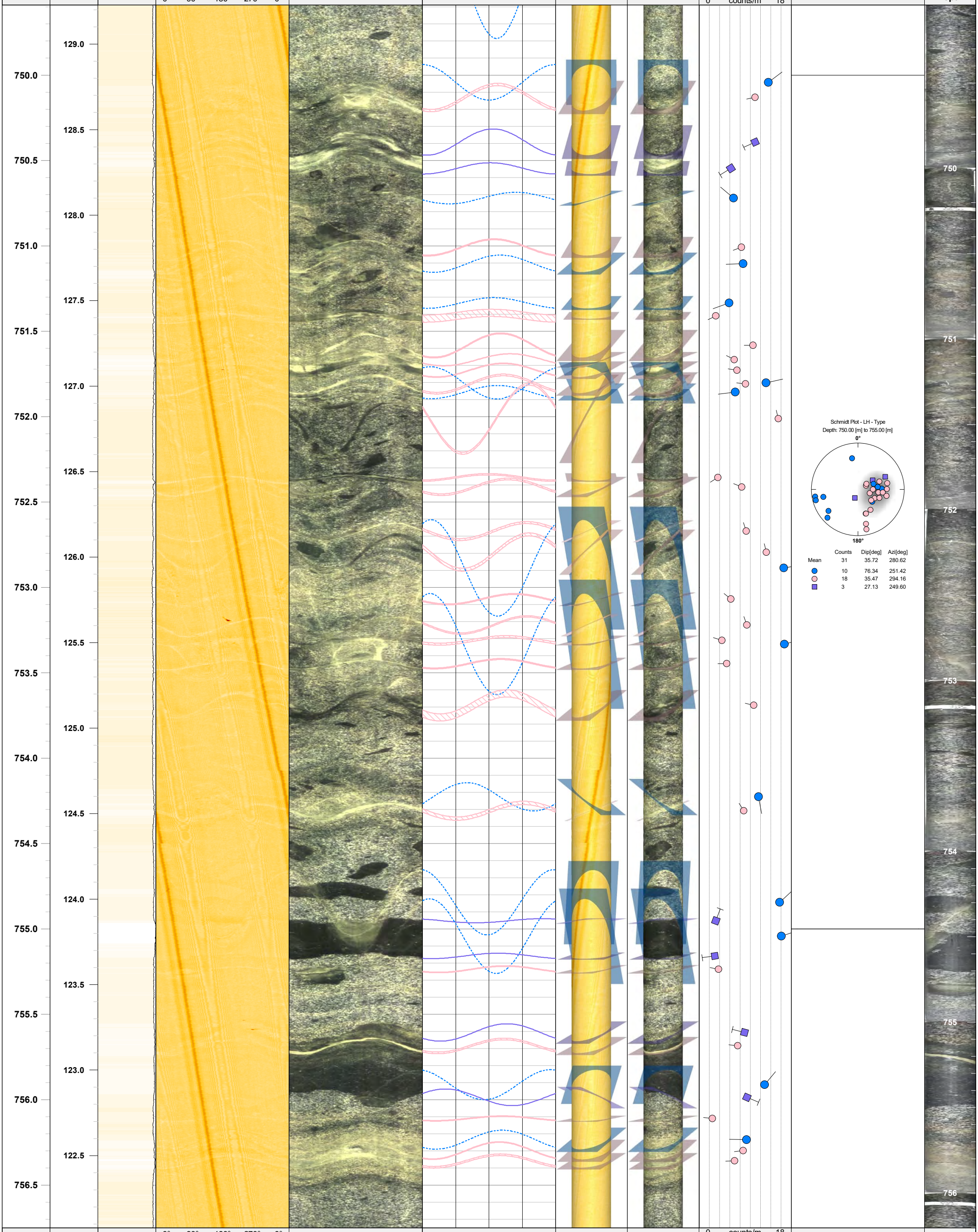
Core: 742 / 743 / 744 / 745 / 746 / 747 / 748 / 749

Depth | Image Logs | Structural Data | Core
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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 – 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 – 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



Schmidt Plot - LH - Type
Depth: 750.00 [m] to 755.00 [m]

0°

180°

	Counts	Dip[deg]	Azi[deg]
Mean	31	35.72	280.62
	10	76.34	251.42
	18	35.47	294.16
	3	27.13	249.60

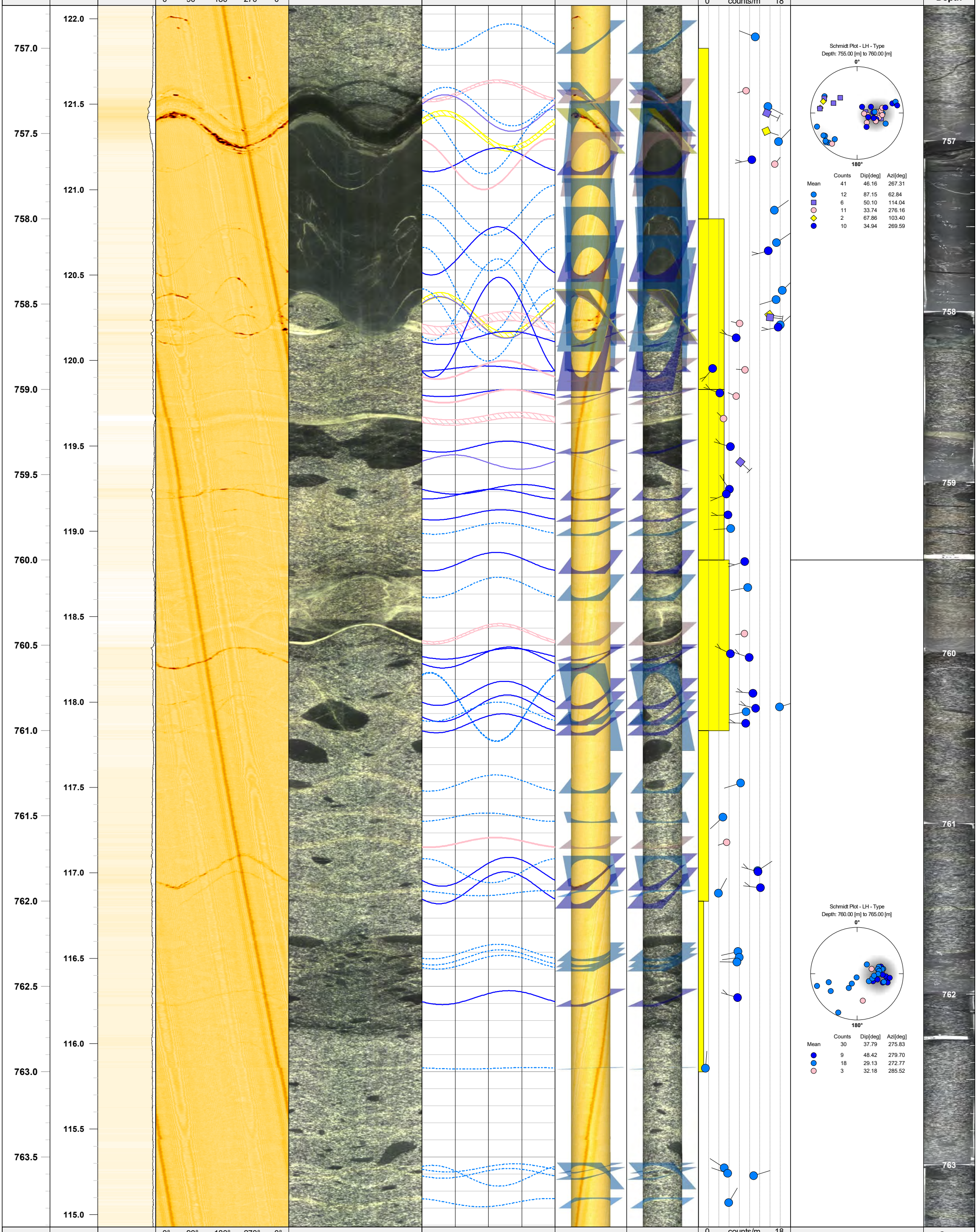
Depth		Image Logs			Structural Data					Core
1m:20m	AHD		500 – 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 – 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo

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Depth		Image Logs			Structural Data						Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo
1m:20m	AHD		500 7200					0 90			Core Depth
			0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	Freq/metre	Schmidt Plot - LH - Type		
								0 counts/m 18			



1m:20m	AHD		0° 90° 180° 270° 0° 500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 90	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
Depth		Image Logs			Structural Data					Core

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

764.0 114.5 764.5 114.0 765.0 113.5 765.5 113.0 766.0 112.5 766.5 112.0 767.0 111.5 767.5 111.0 768.0 110.5 768.5 110.0 769.0 109.5 769.5 109.0 770.0 108.5 770.5 108.0 771.0

Schmidt Plot - LH - Type
Depth: 765.00 [m] to 770.00 [m]

0°

180°

	Counts	Dip[deg]	Azi[deg]
Mean	30	33.96	273.82
	12	52.03	261.62
	16	30.11	280.18
	2	19.78	238.67

764 765 766 767 768 769 770

1m:20m AHD Depth RL m Reflectivity 0° 90° 180° 270° 0° 500 7200 Amplitude-HS HPF 0° 90° 180° 270° 0° Image-HS PROC 0° 90° 180° 270° 0° Apparent Structures -0° 3D ATV -0° 3D OTV 0 counts/m 18 Freq/metre 0 90 Structures - TN Schmidt Plot - LH - Type Stereoplots Core Depth Core Photo

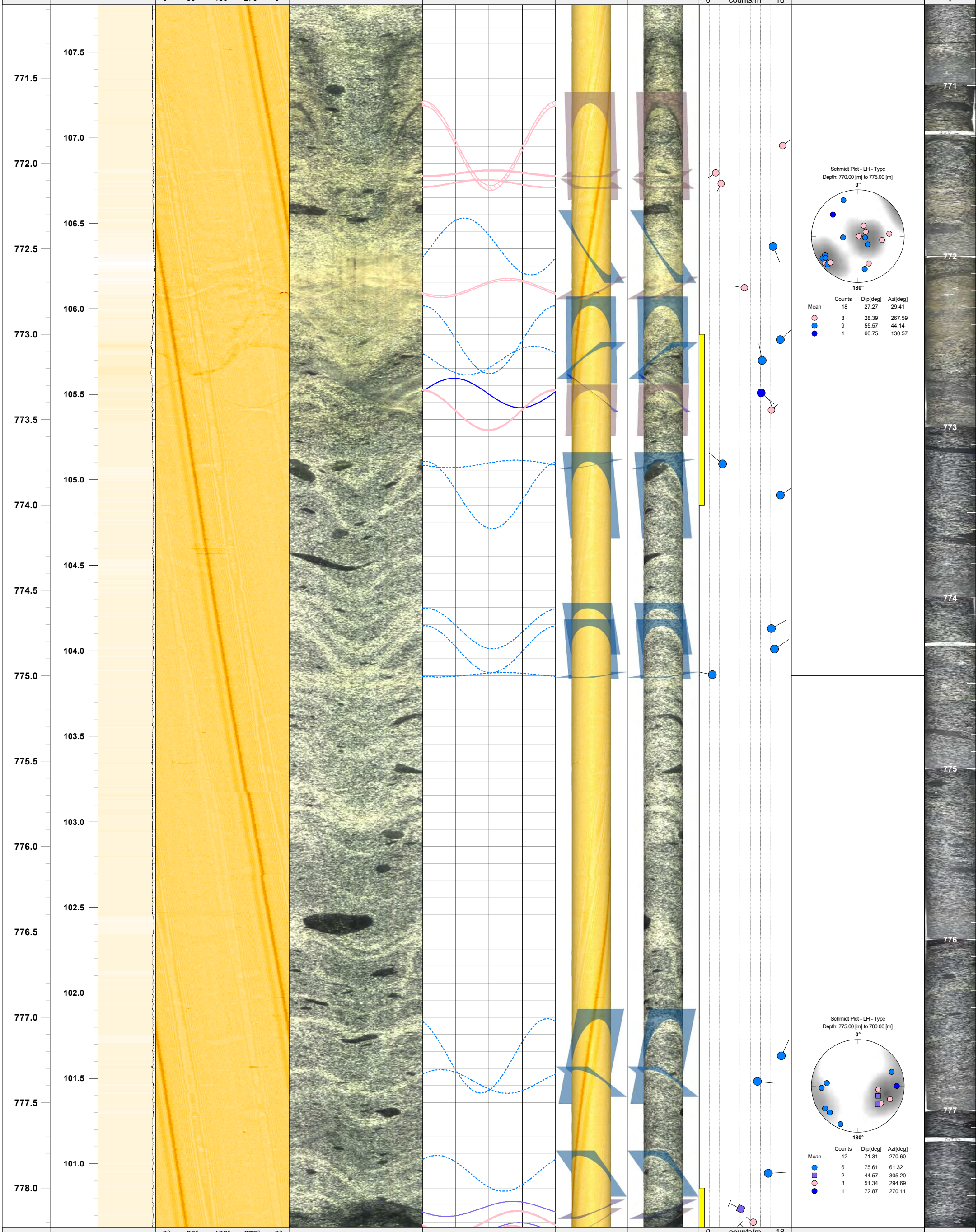
Depth Image Logs Structural Data Core

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Depth
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Photo

Depth	Image Logs	Structural Data	Core

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

778.5 100.5
779.0 100.0
779.5 99.5
780.0 99.0
780.5 98.5
781.0 98.0
781.5 97.5
782.0 97.0
782.5 96.5
783.0 96.0
783.5 95.5
784.0 95.0
784.5 94.5
785.0 94.0
93.5

Schmidt Plot - LH - Type
Depth: 780.00 [m] to 785.00 [m]

	Counts	Dip[deg]	Azi[deg]
Mean	21	74.65	79.29
	14	58.38	75.29
	3	60.87	269.94
	1	51.75	275.41
	3	69.50	159.87

778 779 780 781 782 783 784

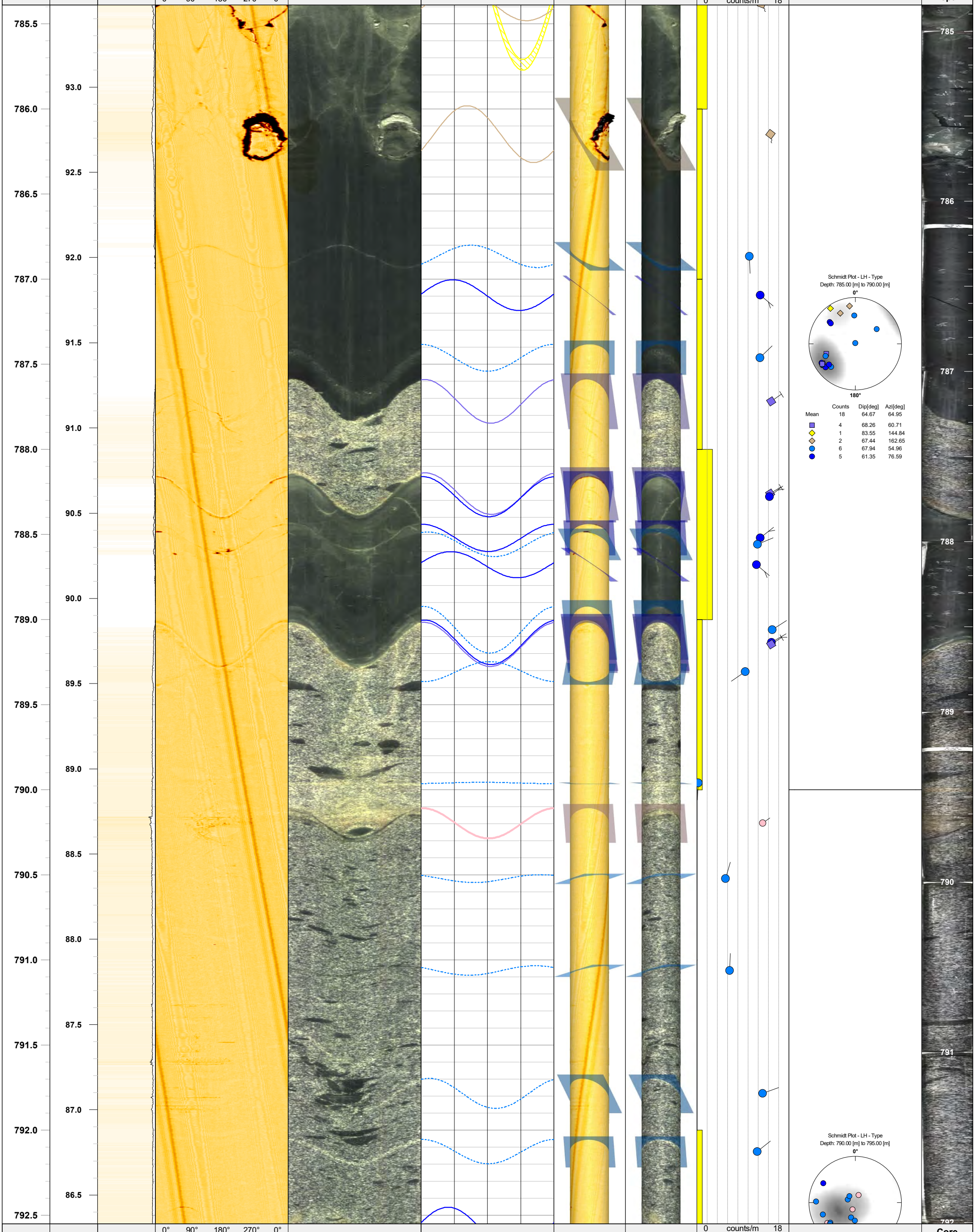
Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

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Depth		Image Logs			Structural Data						Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type		Core Depth



1m:20m	AHD		0° 90° 180° 270° 0° 500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 90	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
Depth		Image Logs			Structural Data					Core

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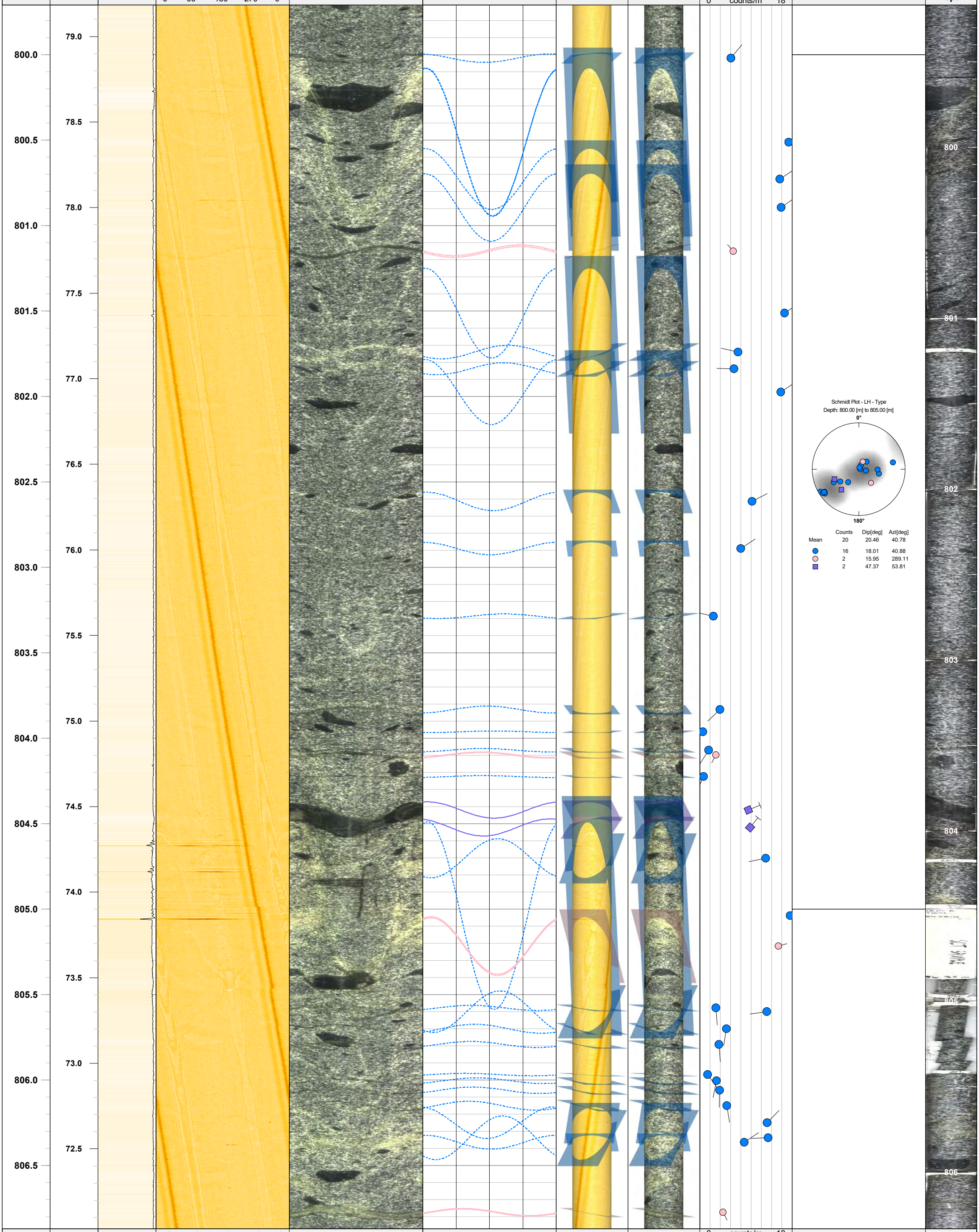
Depth		Image Logs			Structural Data						Core	
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo	
1m:20m	AHD		500 7200					0 90			Core Depth	
			0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	Freq/metre	Schmidt Plot - LH - Type			
								0 counts/m 18				
793.0	86.0								180°		793	
									Counts Dip[deg] Azi[deg]			
									Mean 12 34.72 63.83			
									3 15.86 52.67			
									8 38.73 58.93			
									1 70.44 121.24			
793.5	85.5											
794.0	85.0										794	
794.5	84.5											
795.0	84.0											
795.5	83.5										795	
796.0	83.0											
796.5	82.5										796	
797.0	82.0								Schmidt Plot - LH - Type			
									Depth: 795.00 [m] to 800.00 [m]			
797.5	81.5								0°		797	
									Counts Dip[deg] Azi[deg]			
									Mean 27 3.25 6.20			
									12 3.79 11.76			
									12 9.91 28.50			
									2 18.22 247.03			
									1 67.68 149.60			
798.0	81.0											
798.5	80.5										798	
799.0	80.0											
799.5	79.5										799	
1m:20m	AHD		0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18	Schmidt Plot - LH - Type		Core Depth	
			500 7200					Freq/metre				
								0 90			Core Photo	
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core	
Depth		Image Logs			Structural Data						Core	

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



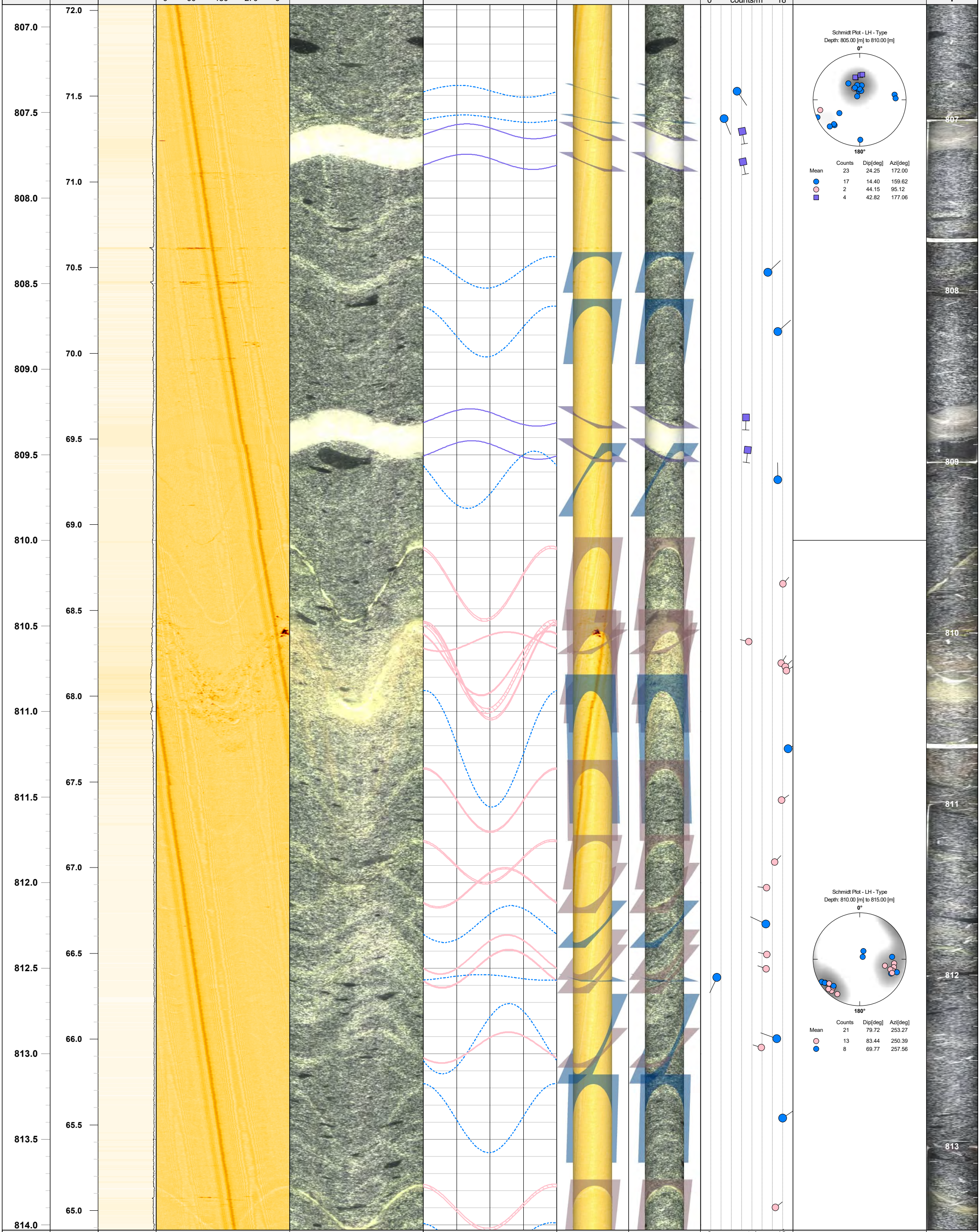
1m:20m	AHD		0° 90° 180° 270° 0° 500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 90	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
Depth		Image Logs			Structural Data					Core

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 – 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 – 90 Freq/metre; 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



Depth		Image Logs			Structural Data					Core
1m:20m	AHD		500 – 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre; 0 – 90	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

814.5 64.5
815.0 64.0
815.5 63.5
816.0 63.0
816.5 62.5
817.0 62.0
817.5 61.5
818.0 61.0
818.5 60.5
819.0 60.0
819.5 59.5
820.0 59.0
820.5 58.5
821.0 58.0

Schmidt Plot - LH - Type
Depth: 815.00 [m] to 820.00 [m]

0°
180°

	Counts	Dip[deg]	Azi[deg]
Mean	23	31.33	243.30
	12	27.64	225.81
	11	33.76	254.84

814 815 816 817 818 819 820

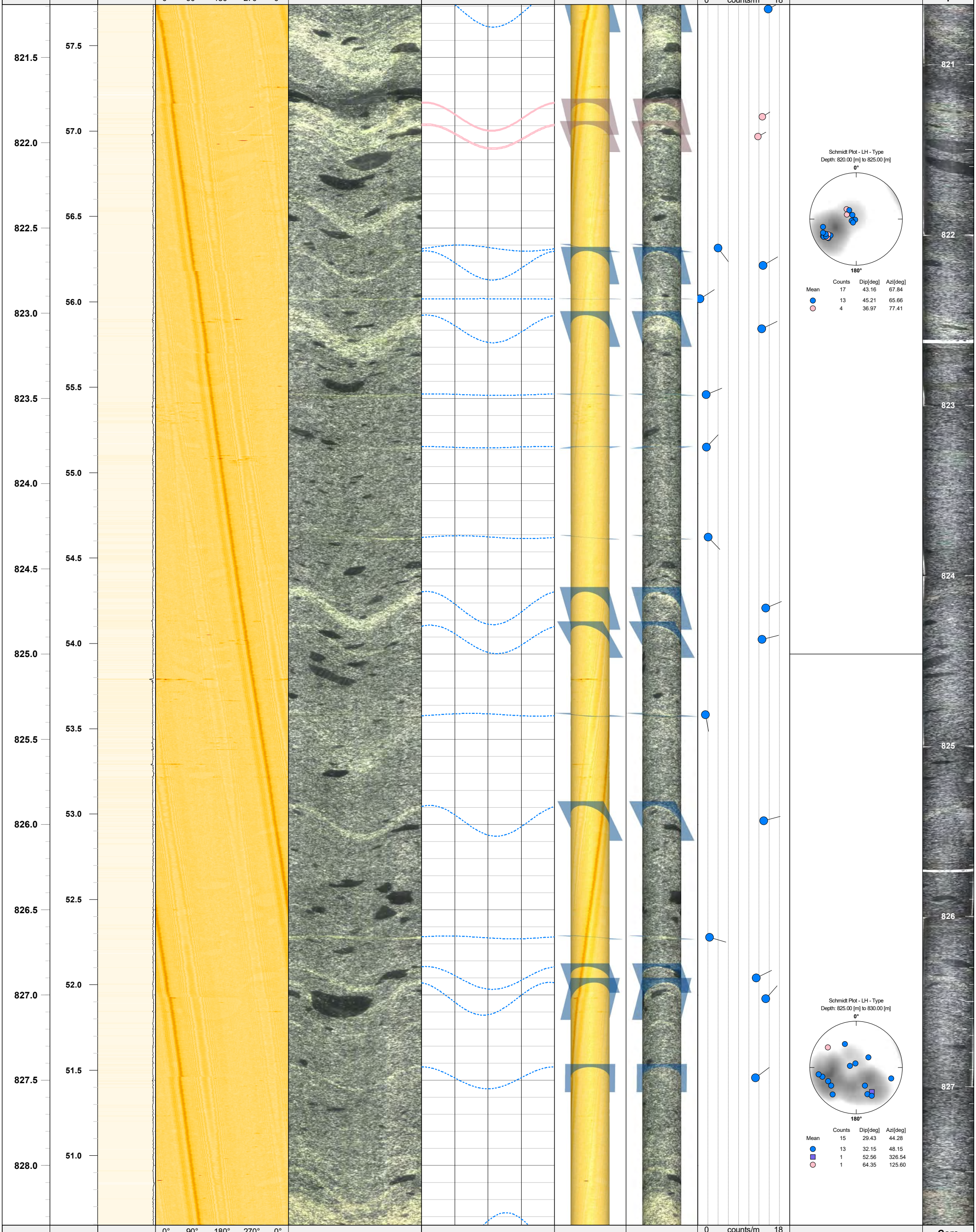
1m:20m AHD Depth RL m Reflectivity 500 7200 0° 90° 180° 270° 0° Amplitude-HS HPF 0° 90° 180° 270° 0° Image-HS PROC 0° 90° 180° 270° 0° Apparent Structures -0° 3D ATV -0° 3D OTV 0 counts/m 18 Freq/metre 0 90 Structures - TN Schmidt Plot - LH - Type Stereoplots Core Depth Core Photo Core

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Depth		Image Logs			Structural Data						Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type		Core Depth



Depth		Image Logs			Structural Data						Core
1m:20m	AHD		0° 90° 180° 270° 0° 500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 90	Schmidt Plot - LH - Type		Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

828.5 / 50.5
829.0 / 50.0
829.5 / 49.5
830.0 / 49.0
830.5 / 48.5
831.0 / 48.0
831.5 / 47.5
832.0 / 47.0
832.5 / 46.5
833.0 / 46.0
833.5 / 45.5
834.0 / 45.0
834.5 / 44.5
835.0 / 44.0
835.5 / 43.5

Schmidt Plot - LH - Type
Depth: 830.00 [m] to 835.00 [m]

0°
180°

	Counts	Dip[deg]	Azi[deg]
Mean	37	6.72	93.79
●	20	30.84	118.54
●	12	8.13	319.94
◆	1	72.75	341.07
■	1	74.03	334.28
●	1	79.86	331.08
●	2	66.64	315.89

828
829
830
831
832
833
834

1m:20m	AHD		0° 90° 180° 270° 0° 500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 90	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
Depth		Image Logs			Structural Data					Core

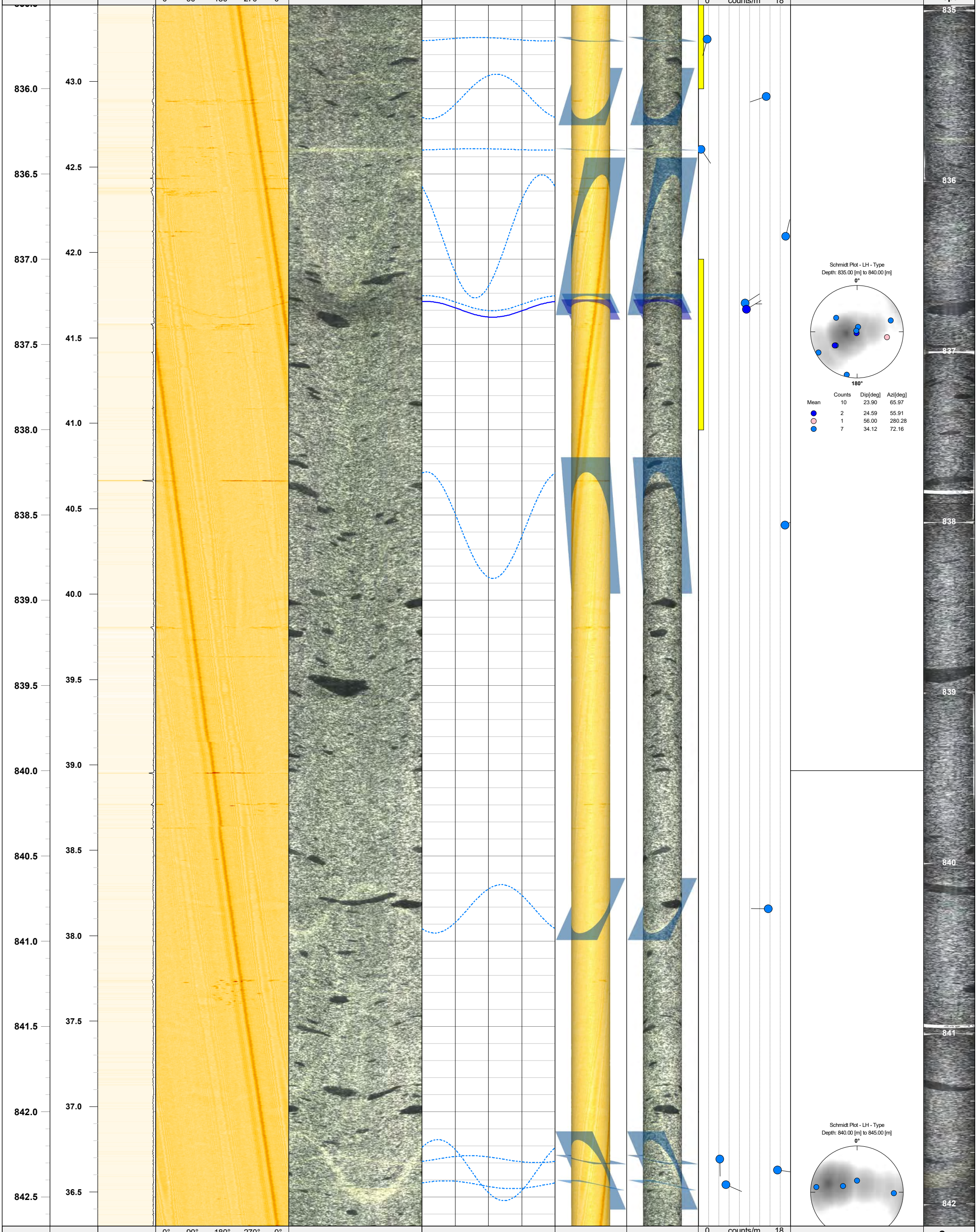
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Depth | **Image Logs** | **Structural Data** | **Core**

Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo / Core Depth
1m:20m	AHD		500 – 7200; 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 – 90; Freq/metre; 0 counts/m 18	Schmidt Plot - LH - Type	



Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Depth / Core Photo
1m:20m	AHD		500 – 7200; 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 – 90; Freq/metre; 0 counts/m 18	Schmidt Plot - LH - Type	

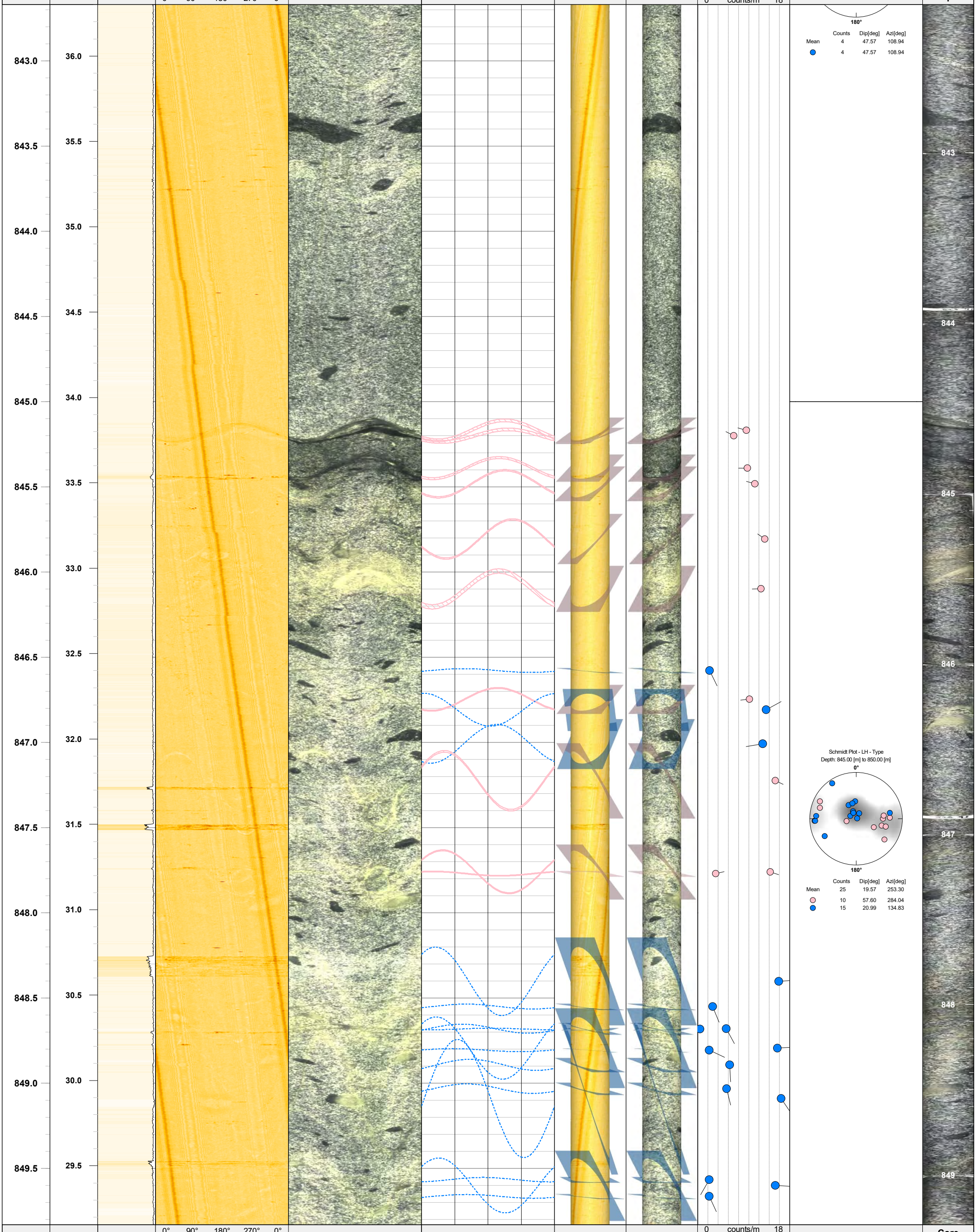
Depth | **Image Logs** | **Structural Data** | **Core**

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Depth		Image Logs			Structural Data						Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type		Core Depth



Depth		Image Logs			Structural Data						Core
1m:20m	AHD		0° 90° 180° 270° 0° 500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 counts/m 18 Freq/metre 0 90	Schmidt Plot - LH - Type		Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo

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Depth		Image Logs			Structural Data						Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo
1m:20m	AHD		500 7200					0 90			Core Depth
			0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	Freq/metre	Schmidt Plot - LH - Type		
								0 counts/m 18			

850.0 / 29.0
850.5 / 28.5
851.0 / 28.0
851.5 / 27.5
852.0 / 27.0
852.5 / 26.5
853.0 / 26.0
853.5 / 25.5
854.0 / 25.0
854.5 / 24.5
855.0 / 24.0
855.5 / 23.5
856.0 / 23.0
856.5 / 22.5

Schmidt Plot - LH - Type
Depth: 850.00 [m] to 855.00 [m]
0°
180°

	Counts	Dip[deg]	Azi[deg]
Mean	25	33.35	275.18
	11	26.49	258.66
	7	32.29	71.50
	1	70.68	309.36
	6	35.23	278.08

850 851 852 853 854 855 856

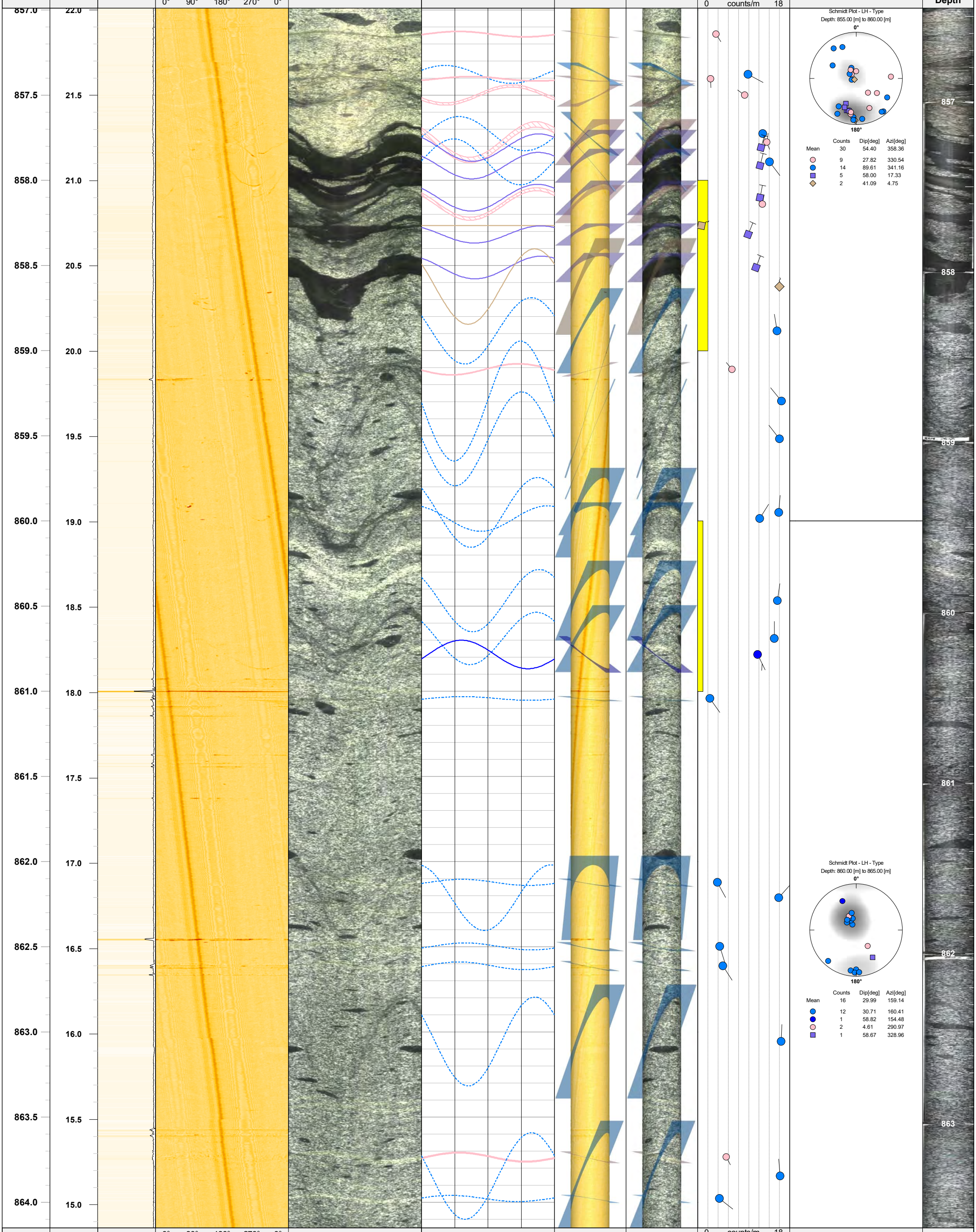
1m:20m AHD Depth RL m Reflectivity 500 7200 0° 90° 180° 270° 0° Amplitude-HS HPF 0° 90° 180° 270° 0° Image-HS PROC 0° 90° 180° 270° 0° Apparent Structures -0° 3D ATV -0° 3D OTV 0 counts/m 18 Freq/metre 0 90 Structures - TN Schmidt Plot - LH - Type Stereoplots Core Depth Core Photo

Depth Image Logs Structural Data Core
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Depth		Image Logs			Structural Data						Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo
1m:20m	AHD		500 – 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 – 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type		Core Depth



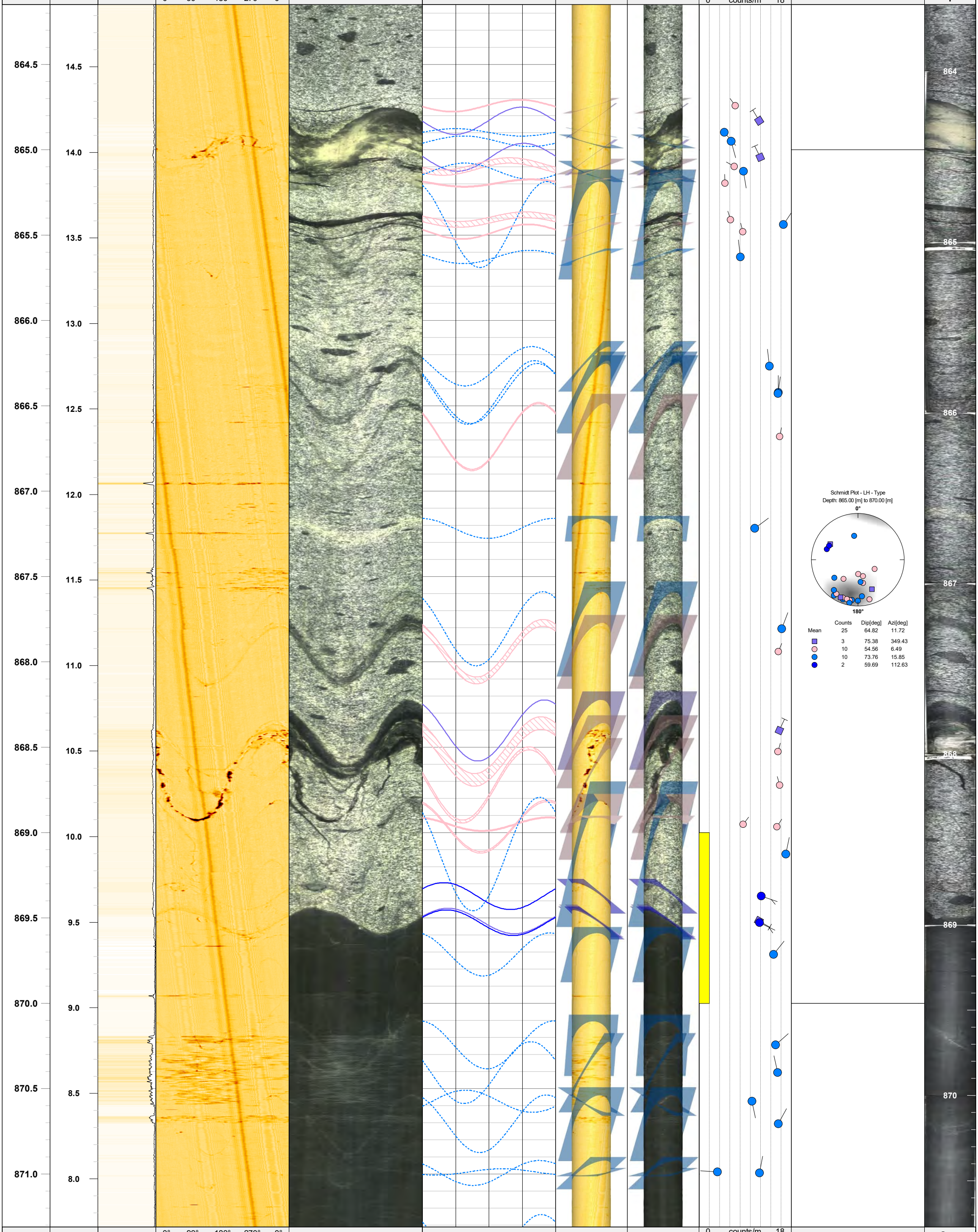
Depth		Image Logs			Structural Data						Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo
1m:20m	AHD		500 – 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 – 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type		Core Depth

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth



Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

871.5 7.5
872.0 7.0
872.5 6.5
873.0 6.0
873.5 5.5
874.0 5.0
874.5 4.5
875.0 4.0
875.5 3.5
876.0 3.0
876.5 2.5
877.0 2.0
877.5 1.5
878.0 1.0

Schmidt Plot - LH - Type
Depth: 870.00 [m] to 875.00 [m]

	Counts	Dip[deg]	Azi[deg]
Mean	31	73.10	30.40
	17	73.04	28.94
	2	89.14	297.85
	3	78.63	354.45
	3	77.55	156.75
	6	65.79	267.43

Schmidt Plot - LH - Type
Depth: 875.00 [m] to 880.00 [m]

	Counts	Dip[deg]	Azi[deg]
Mean	19	84.80	44.09
	3	68.96	164.86
	12	69.84	51.31
	4	47.06	260.99

871 872 873 874 877

Depth		Image Logs			Structural Data					Core
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo

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Depth | Image Logs | Structural Data | Core

Depth | RL m | Reflectivity | Amplitude-HS HPF | Image-HS PROC | Apparent Structures | 3D ATV | 3D OTV | Structures - TN | Stereoplots | Core Photo

1m:20m | AHD | 500 – 7200 | 0° 90° 180° 270° 0° | -0° | Freq/metre 0 – counts/m – 18 | Schmidt Plot - LH - Type | Core Depth

878.5 (0.5) · 879.0 (-0.0) · 879.5 (-0.5) · 880.0 (-1.0) · 880.5 (-1.5) · 881.0 (-2.0) · 881.5 (-2.5) · 882.0 (-3.0) · 882.5 (-3.5) · 883.0 (-4.0) · 883.5 (-4.5) · 884.0 (-5.0) · 884.5 (-5.5) · 885.0 (-6.0) · 885.5 (-6.5)

Structures - TN: 0 – 90

Schmidt Plot - LH - Type
Depth: 880.00 [m] to 885.00 [m]

	Counts	Dip[deg]	Azi[deg]
Mean	20	54.43	120.65
	7	40.14	82.21
	8	66.56	150.29
	3	51.60	56.80
	1	86.55	73.06
	1	77.71	69.87

Core: 878 · 879 · 880 · 881 · 882 · 883 · 884 · 885

Depth | RL m | Reflectivity | Amplitude-HS HPF | Image-HS PROC | Apparent Structures | 3D ATV | 3D OTV | Structures - TN | Stereoplots | Core Depth | Core Photo

Depth | Image Logs | Structural Data | Core

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Depth		Image Logs			Structural Data						Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo
1m:20m	AHD		500 7200			-0°	-0°	0 90	Schmidt Plot - LH - Type		Core Depth
			0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°			Freq/metre 0 counts/m 18			
886.0	-7.0										886
886.5	-7.5										
887.0	-8.0										
887.5	-8.5										887
888.0	-9.0										
888.5	-9.5										888
889.0	-10.0										
889.5	-10.5										889
890.0	-11.0										
890.5	-11.5										890
891.0	-12.0										
891.5	-12.5										891
892.0	-13.0										
892.5	-13.5										892

Schmidt Plot - LH - Type
Depth: 885.00 [m] to 890.00 [m]
0°
180°

	Counts	Dip[deg]	Azi[deg]
Mean	33	86.91	239.63
	19	31.02	235.52
	5	24.73	259.84
	6	69.37	48.33
	3	65.90	52.19

Schmidt Plot - LH - Type
Depth: 890.00 [m] to 895.00 [m]
0°
180°

Depth		Image Logs			Structural Data						Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots		Core Photo

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Depth		Image Logs			Structural Data					Core
Depth	RL m	Reflectivity	Amplitude-HS HPF	Image-HS PROC	Apparent Structures	3D ATV	3D OTV	Structures - TN	Stereoplots	Core Photo
1m:20m	AHD		500 7200	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	-0°	-0°	0 90 Freq/metre 0 counts/m 18	Schmidt Plot - LH - Type	Core Depth

Depth: 893.0 – 899.5 m; RL m: -14.0 – -20.5 AHD

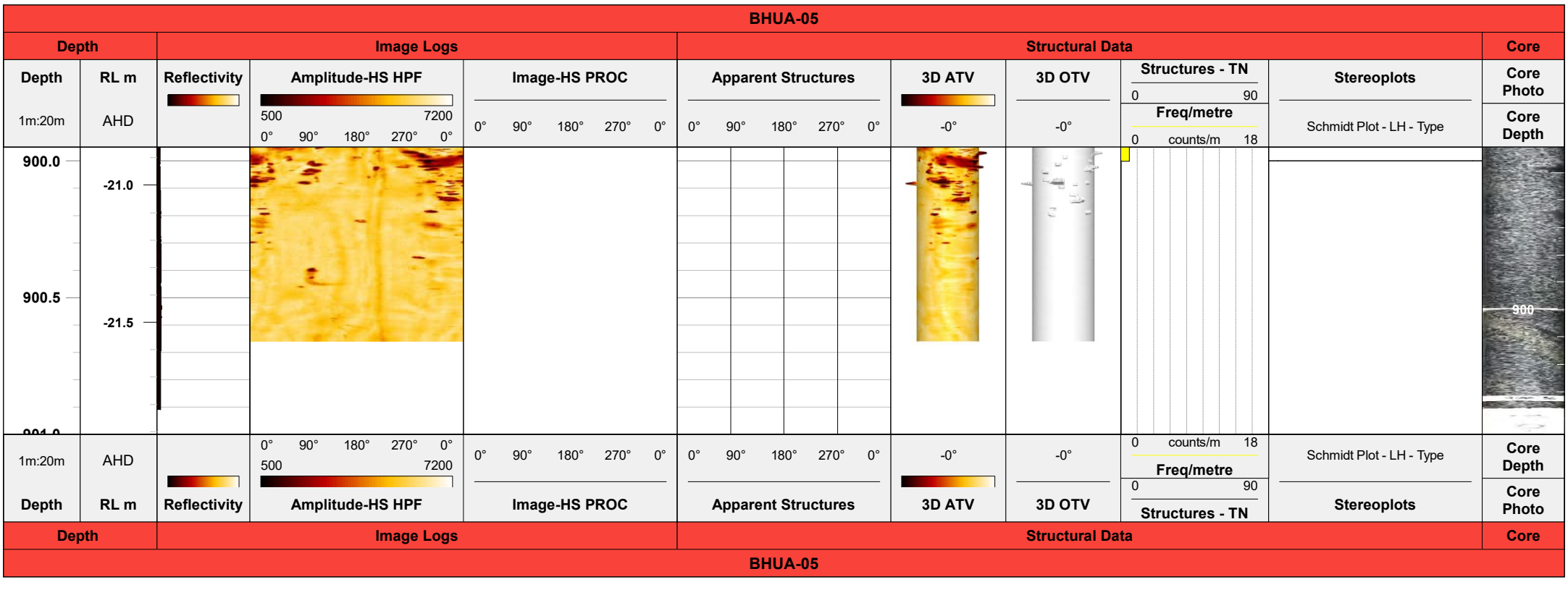
Stereoplots:

	Counts	Dip[deg]	Azi[deg]
Mean	10	65.50	74.25
	9	66.08	71.97
	1	70.19	162.00

Schmidt Plot - LH - Type
Depth: 895.00 [m] to 900.00 [m]

	Counts	Dip[deg]	Azi[deg]
Mean	13	78.74	68.64
	9	67.02	70.68
	3	42.26	217.29
	1	45.16	281.87

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BHUA-05 Composite Logs

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WSP Australia Pty Limited
Level 12, 900 Ann Street
Fortitude Valley
QLD 4006
Australia

GEOPHYSICAL RECORD OF BOREHOLE: BHUA-05

PROJECT: Pioneer-Burdekin PHES | JOB # PS138693

CLIENT: Queensland Hydro | DATE: 11-Sept-2024

BOREHOLE DETAILS

LOCATION:	Upper Reservoir	BH DEPTH:	900.36 m
EASTING:	659313.15 m	BH DIAMETER:	HQ (96 mm)
NORTHING:	7666351.20 m	BH AZIMUTH:	-87°
ELEVATION:	878.11 m	BH PLUNGE:	233°
COORD SYSTEM:	MGA2020	CASING DEPTH:	155.3 m
LOGGING DATUM:	Ground Level	CASING TYPE:	HWT

DOCUMENT DETAILS

LOGGED BY:	GH, JH
LOGGED DATE:	27/06/2024
DRAWN BY:	SB
REVIEWED BY:	GH
FILE:	BHUA-05_Comp_RevB
LOGGED DEPTH:	900.66 m

NOTES

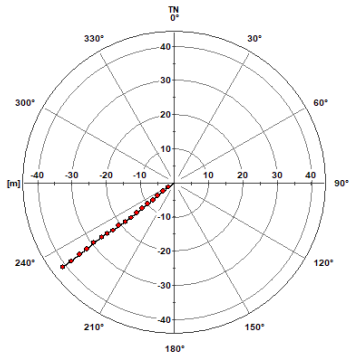
Image logs are oriented relative to borehole high side. Final structure log is oriented relative to true north using magnetic declination of 8.2° East.

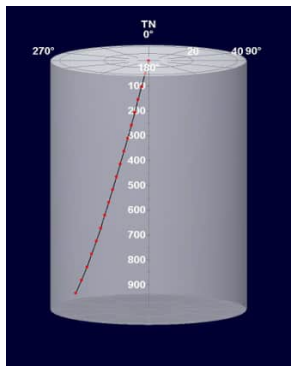
Mechanical calliper log used for structure dip corrections.

All logs zerored to ground level. Cased section assumed straight for deviation calculations.

Image logs depth-corrected using anchor points from the in-run at 899.42 m and start-finish zero depths recorded at collar. The purpose of this correction is to reduce the effect of wireline stretch during the out-run.

BOREHOLE DEVIATION





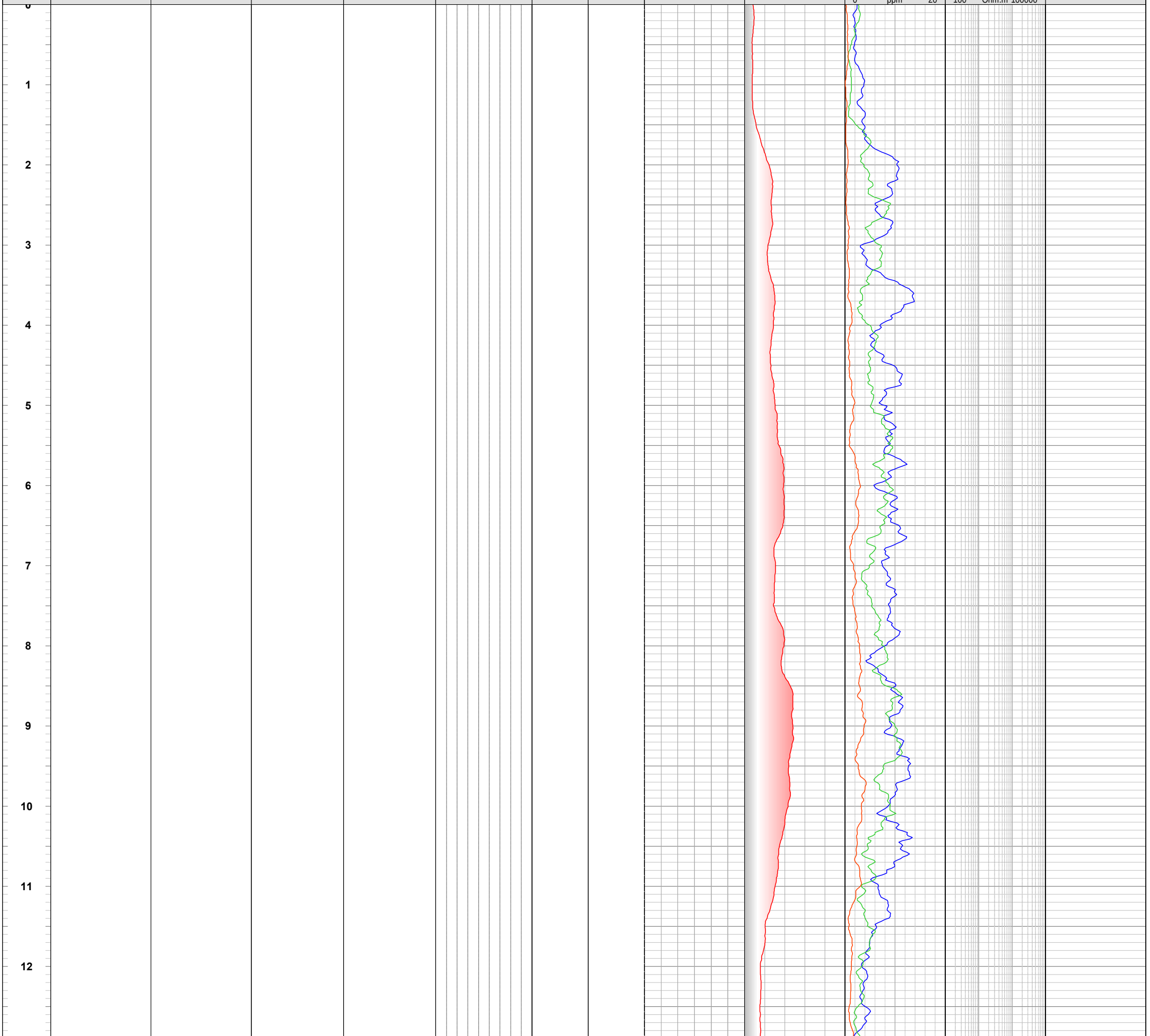
INTERPRETED STRUCTURES

Contact | Crushed Seam | Fracture Zone | Infilled Seam | Joint | Shear Seam | Sheared Surface

Shear Zone | Vein | Healed Joint | Drilling-Induced Fracture

BHUA-05

Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs	Electrical Logs		
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°	Core Depth	1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000	0 ms 50
	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	0 ms 50
										Th	N8	
										0 ppm 20	100 Ohm.m 100000	



Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs	Electrical Logs		
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Freq/metre	3D ATV	Core Depth	Vp	GR	Th	N8	Ma64
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 counts/m 18	-0°	Matched Core	1000 m/s 7000	0 API 250	K	N32	Ma16
	0° 90° 180° 270° 0°				Structures - TN			Vs		0 % 10	100 Ohm.m 100000	0 ms 50
					0 90			1000 m/s 7000		0 ppm 10	100 Ohm.m 100000	
										U	N16	

Depth	Image Logs	Calliper	Structural Logs	Sonic Logs	Gamma Logs	Electrical Logs

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Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs	Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U / K / Th	N16 / N32 / N8	Ma16 / Ma64
1m:50m	500 – 6800 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0 – 10000	80 mm 160	0 – 90 Freq/metre 0 counts/m 18	-0°	Core Depth	1000 m/s 7000 Vp 1000 m/s 7000	0 API 250	0 ppm 10 K 0 % 10 Th 0 ppm 20	100 Ohm.m 100000 N32 100 Ohm.m 100000 N8 100 Ohm.m 100000	0 ms 50 Ma64 0 ms 50

13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs	Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U / K / Th	N16 / N32 / N8	Ma16 / Ma64
1m:50m	500 – 6800 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0 – 10000	80 mm 160	0 – 90 Freq/metre 0 counts/m 18	-0°	Core Depth	1000 m/s 7000 Vp 1000 m/s 7000	0 API 250	0 ppm 10 K 0 % 10 Th 0 ppm 20	100 Ohm.m 100000 N32 100 Ohm.m 100000 N8 100 Ohm.m 100000	0 ms 50 Ma64 0 ms 50

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Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°	Core Depth	1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000	0 ms 50
	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	0 ms 50
										Th	N8	
										0 ppm 20	100 Ohm.m 100000	

30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47

Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°	Core Depth	1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000	0 ms 50
	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	0 ms 50
										Th	N8	
										0 ppm 20	100 Ohm.m 100000	

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Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°	Core Depth	1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000	0 ms 50
	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	
										Th	N8	
										0 ppm 20	100 Ohm.m 100000	

48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64

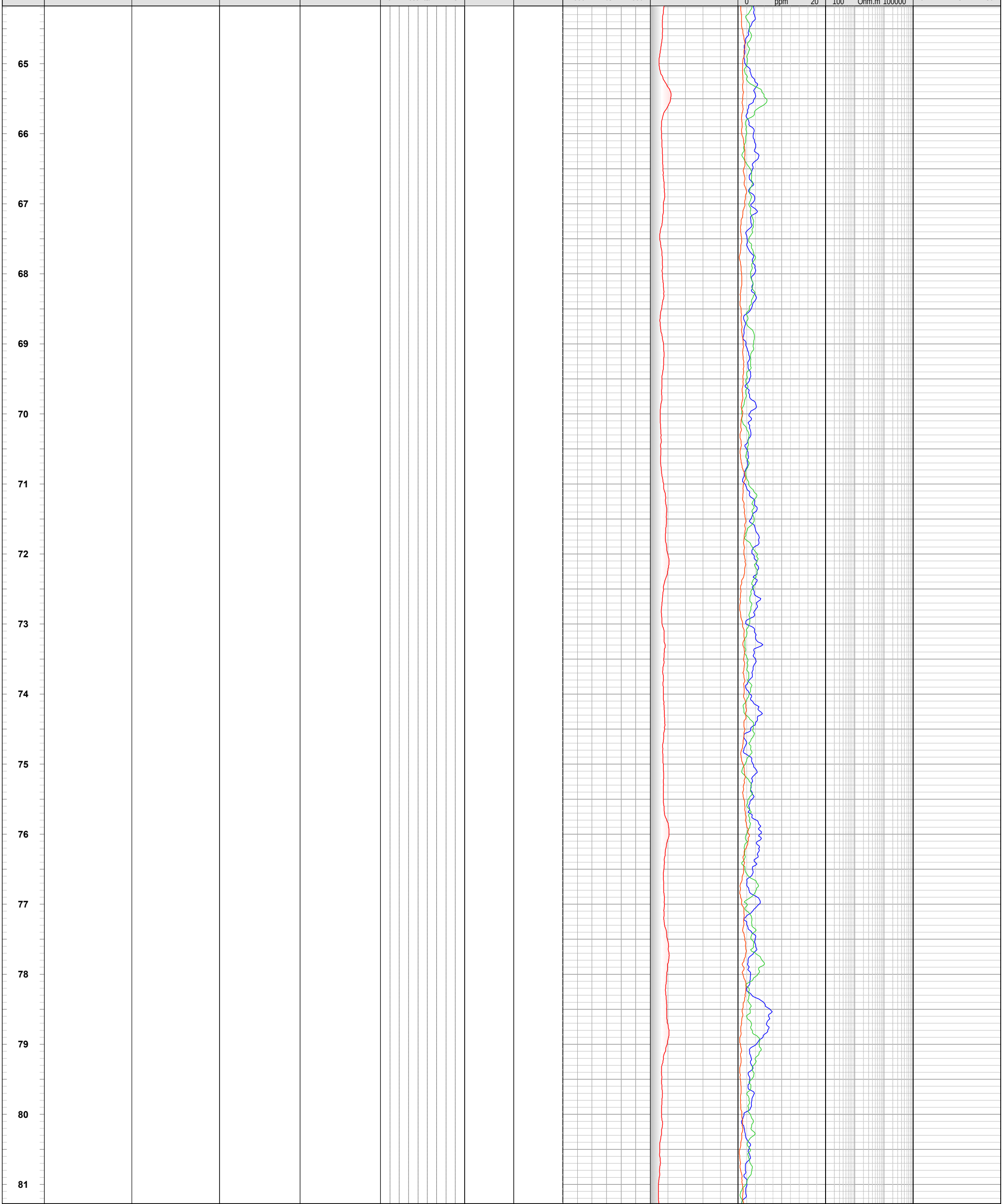
Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°	Core Depth	1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000	0 ms 50
	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	
										Th	N8	
										0 ppm 20	100 Ohm.m 100000	

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Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth 1m:50m	Amplitude-HS HPF 500 6800 0° 90° 180° 270° 0°	Image-HS PROC 0° 90° 180° 270° 0°	Reflectivity 0 10000	CAL 80 mm 160	Structures - TN 0 90 Freq/metre 0 counts/m 18	3D ATV -0°	Matched Core Core Depth	Vs 1000 m/s 7000 Vp 1000 m/s 7000	GR 0 API 250	U 0 ppm 10 K 0 % 10 Th 0 ppm 20	N16 100 Ohm.m 100000 N32 100 Ohm.m 100000 N8 100 Ohm.m 100000	Ma16 0 ms 50 Ma64 0 ms 50



Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth 1m:50m	Amplitude-HS HPF 0° 90° 180° 270° 0° 500 6800	Image-HS PROC 0° 90° 180° 270° 0°	Reflectivity 0 10000	CAL 80 mm 160	Structures - TN 0 90 Freq/metre 0 counts/m 18	3D ATV -0°	Matched Core Core Depth	Vs 1000 m/s 7000 Vp 1000 m/s 7000	GR 0 API 250	U 0 ppm 10 K 0 % 10 Th 0 ppm 20	N16 100 Ohm.m 100000 N32 100 Ohm.m 100000 N8 100 Ohm.m 100000	Ma16 0 ms 50 Ma64 0 ms 50

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Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
	500 6800		0 10000	80 mm 160	0 90	-0°		1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000	0 ms 50
1m:50m	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°			Freq/metre		Core Depth	Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	0 ms 50
										Th	N8	
										0 ppm 20	100 Ohm.m 100000	

82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98

Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
	500 6800		0 10000	80 mm 160	0 90	-0°		1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000	0 ms 50
1m:50m	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°			Freq/metre		Core Depth	Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	0 ms 50
										Th	N8	
										0 ppm 20	100 Ohm.m 100000	

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Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°	Core Depth	1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000	0 ms 50
	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	0 ms 50
										Th	N8	
										0 ppm 20	100 Ohm.m 100000	

99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115

Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°	Core Depth	1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000	0 ms 50
	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	0 ms 50
										Th	N8	
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Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°		1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000	0 ms 50
	0° 90° 180° 270° 0°				Freq/metre		Core Depth	Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	0 ms 50
										Th	N8	
										0 ppm 20	100 Ohm.m 100000	

116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132

Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°		1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000	0 ms 50
	0° 90° 180° 270° 0°				Freq/metre		Core Depth	Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	0 ms 50
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Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°		1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000	0 ms 50
	0° 90° 180° 270° 0°				Freq/metre		Core Depth	Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	0 ms 50
										Th	N8	
										0 ppm 20	100 Ohm.m 100000	

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Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°		1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000	0 ms 50
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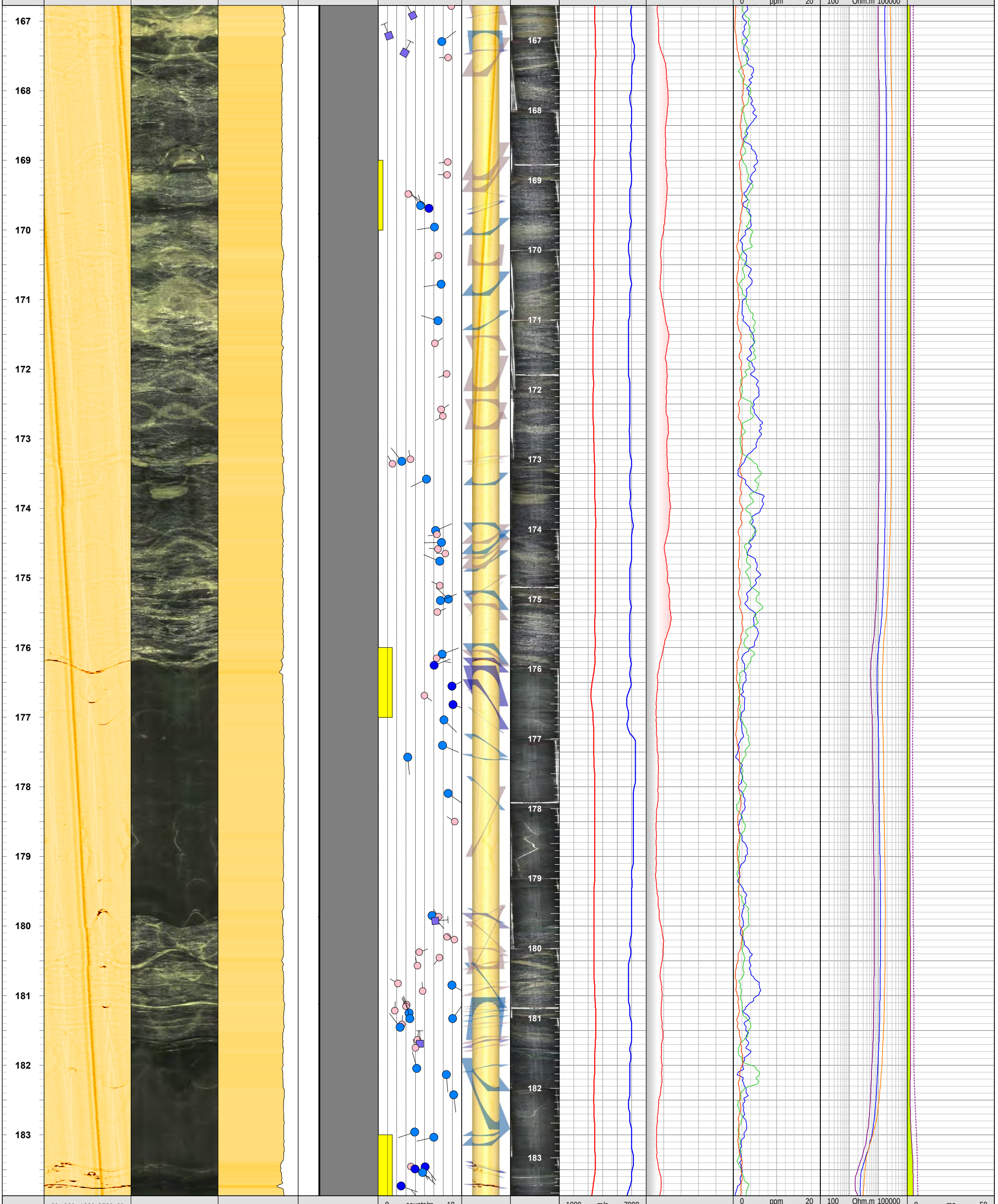
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Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs	Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°	Core Depth	1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000	0 ms 50
	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32	Ma64
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										0 ppm 20	100 Ohm.m 100000	

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Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
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	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	0 ms 50
										Th	N8	
										0 ppm 20	100 Ohm.m 100000	



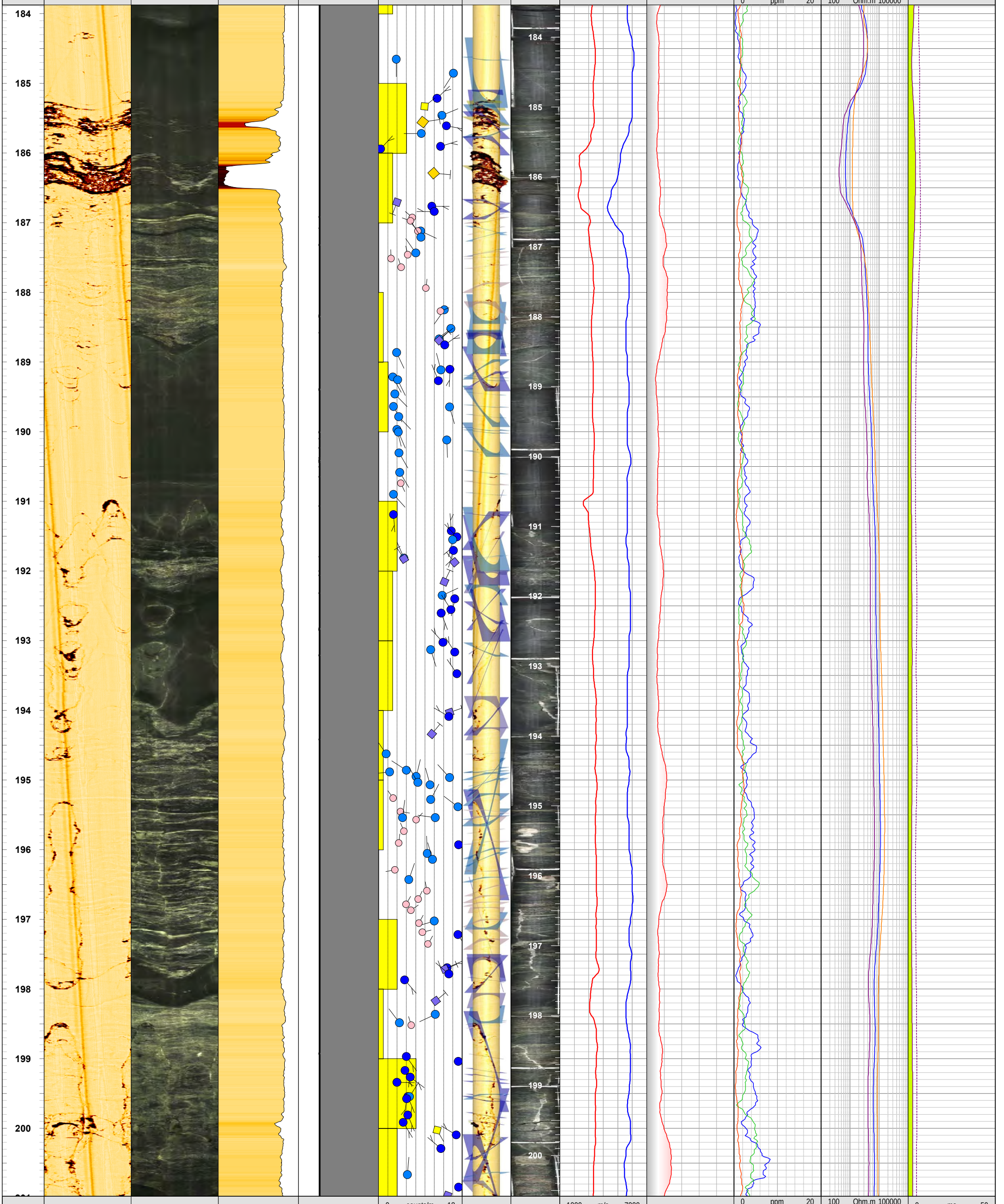
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Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
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					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	0 ms 50
										Th	N8	
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Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
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					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	0 ms 50
										Th	N8	
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Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
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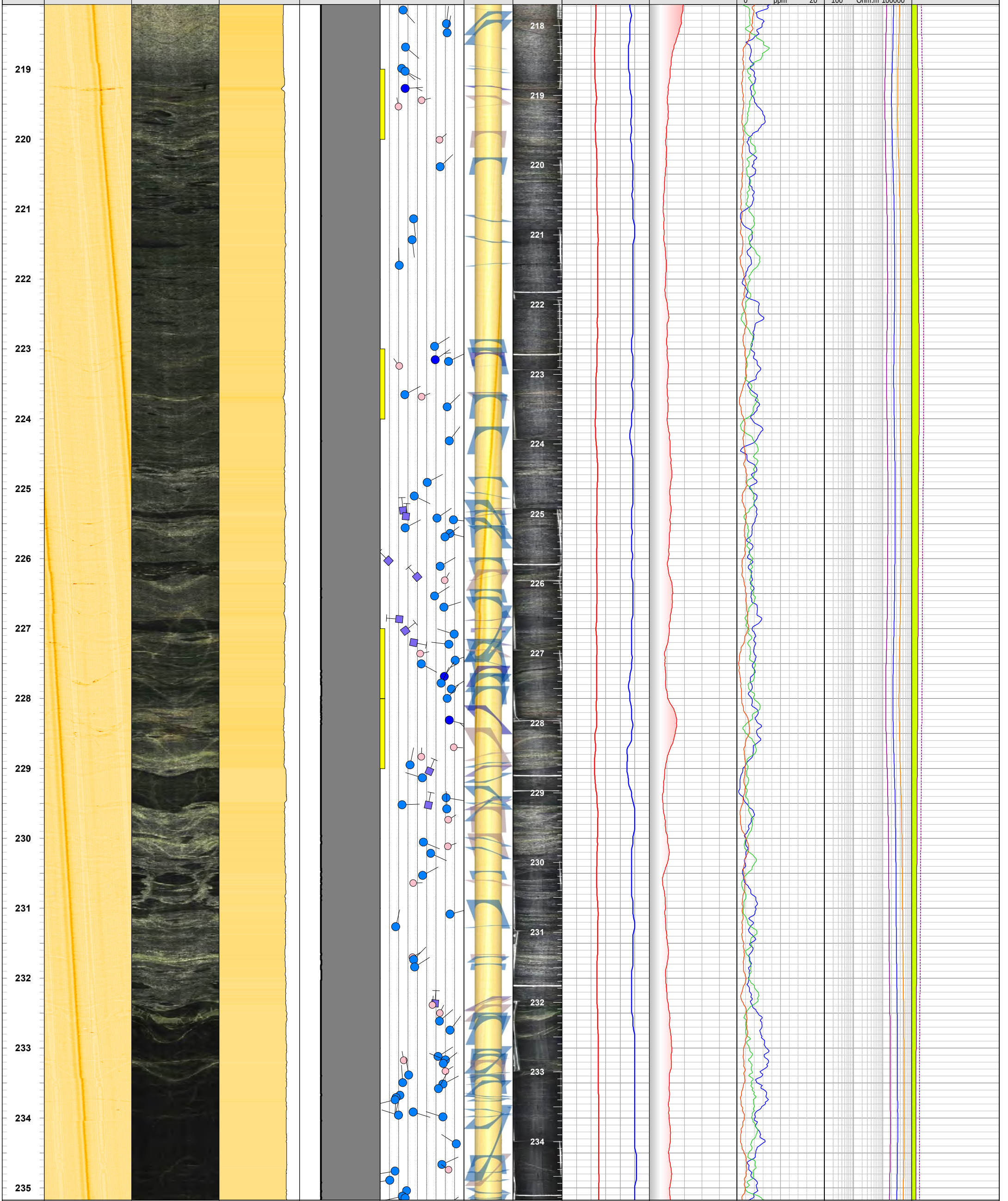
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Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°	Core Depth	1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000	0 ms 50
	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32	Ma64
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										0 ppm 20	100 Ohm.m 100000	

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Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
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										Th	N8	
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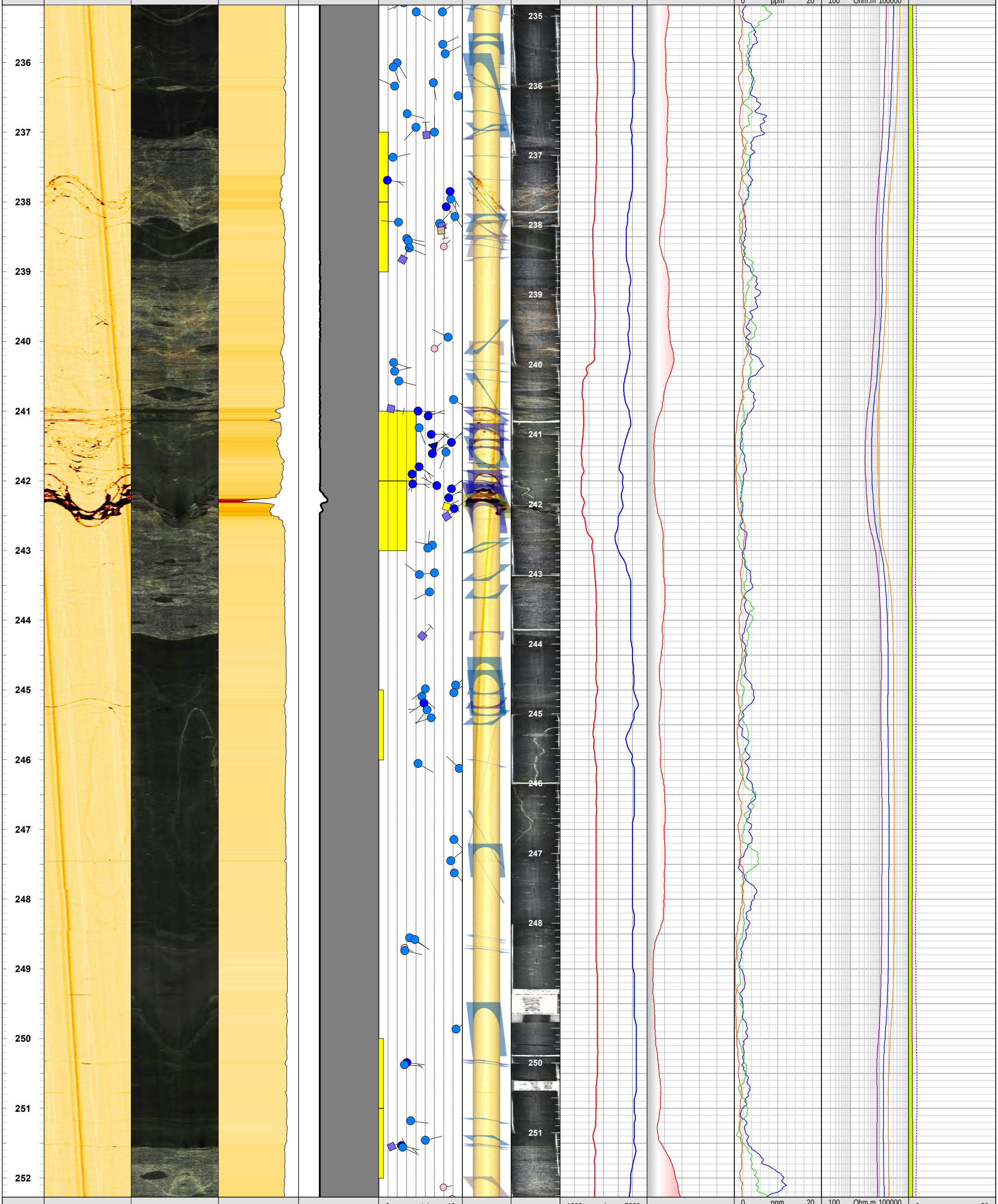
Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
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					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	0 ms 50
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Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
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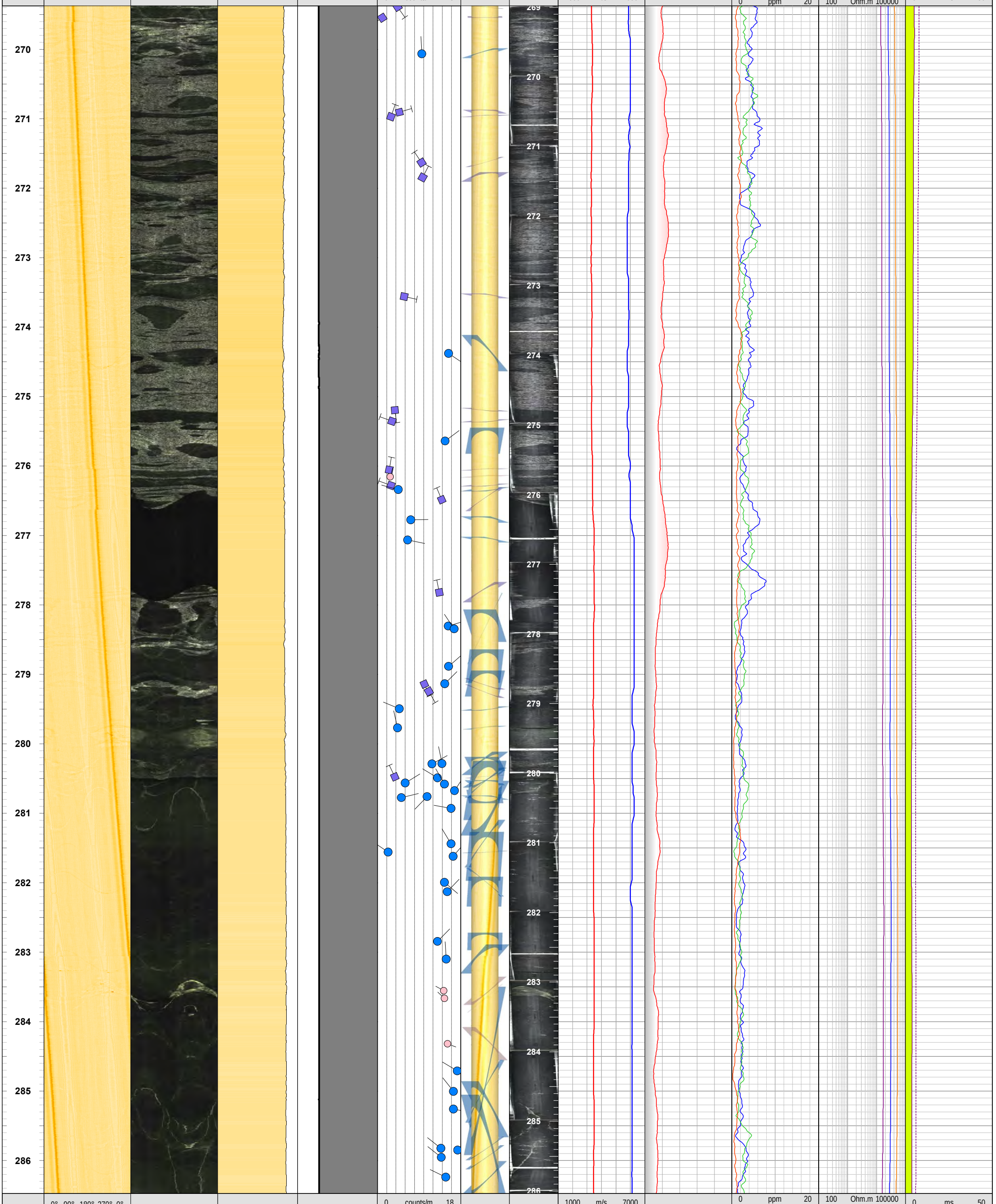
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Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
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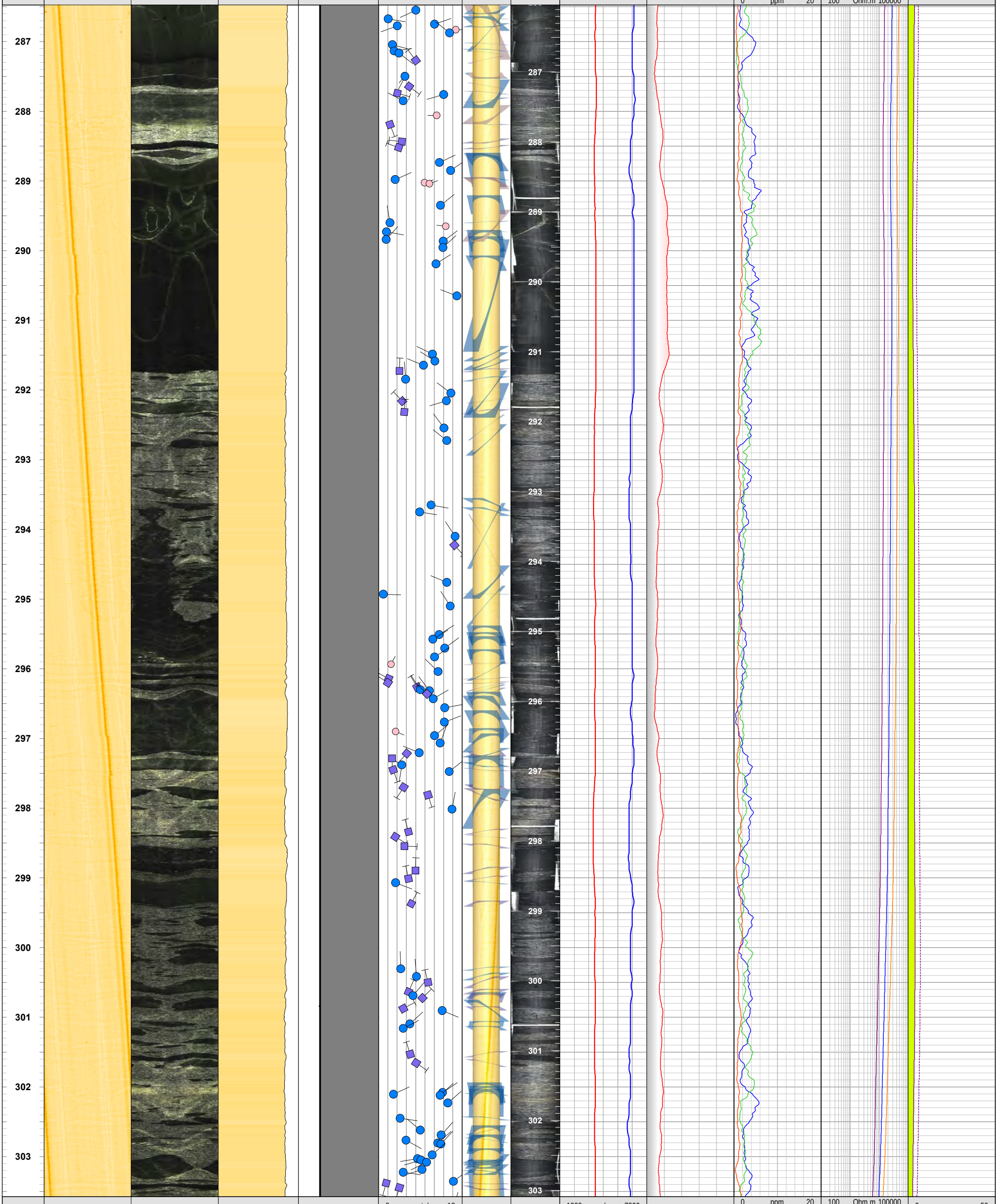
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Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
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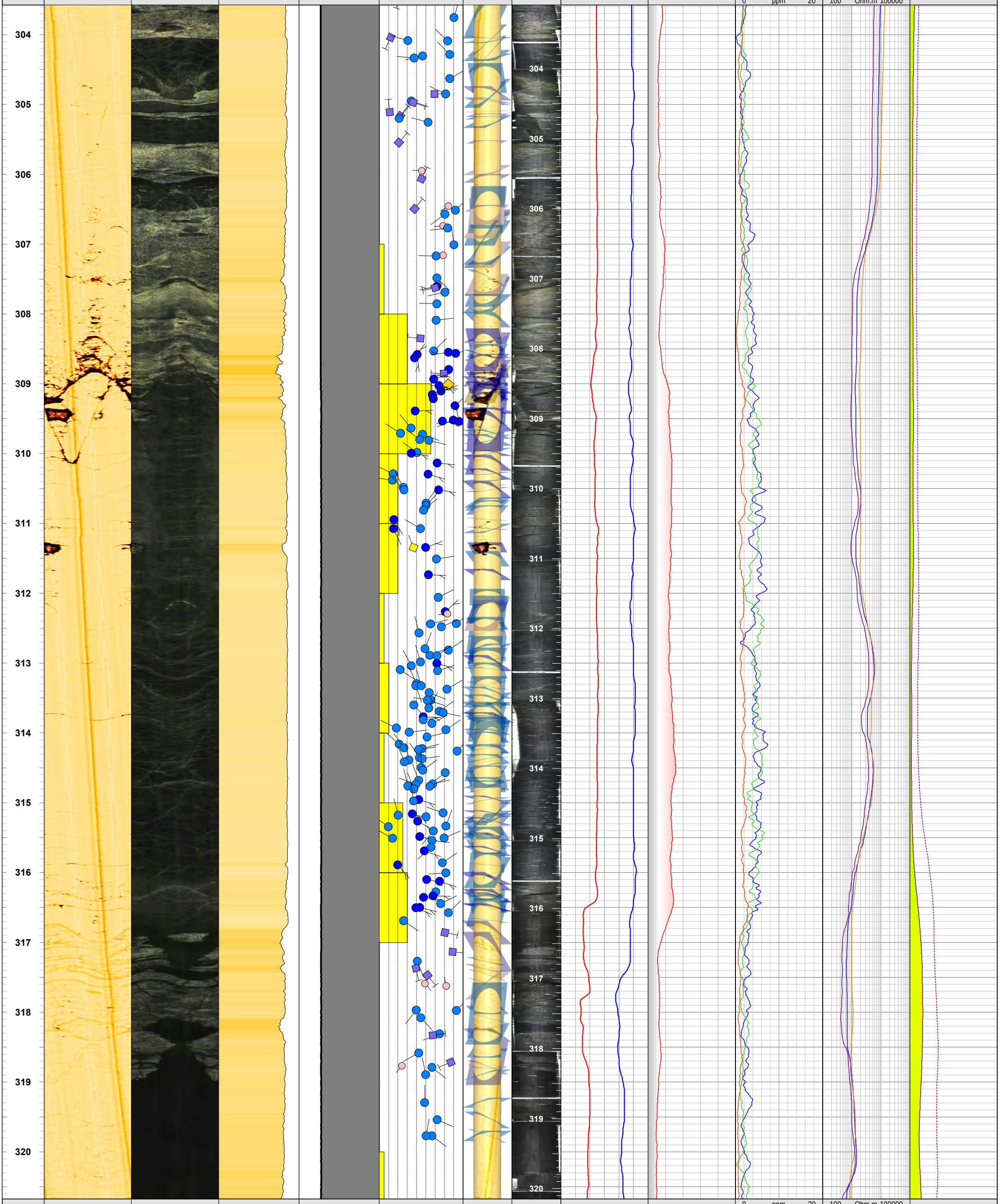
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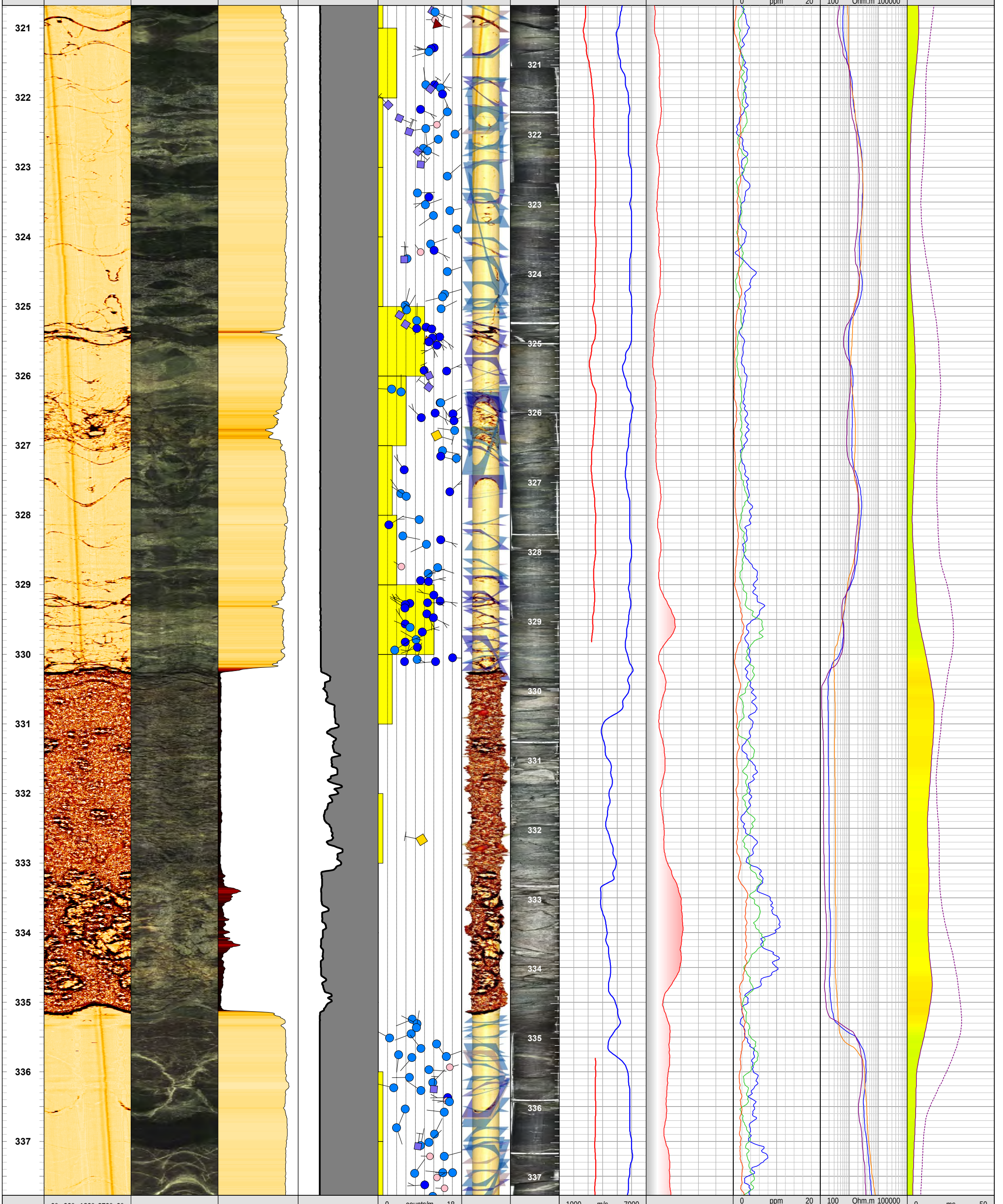
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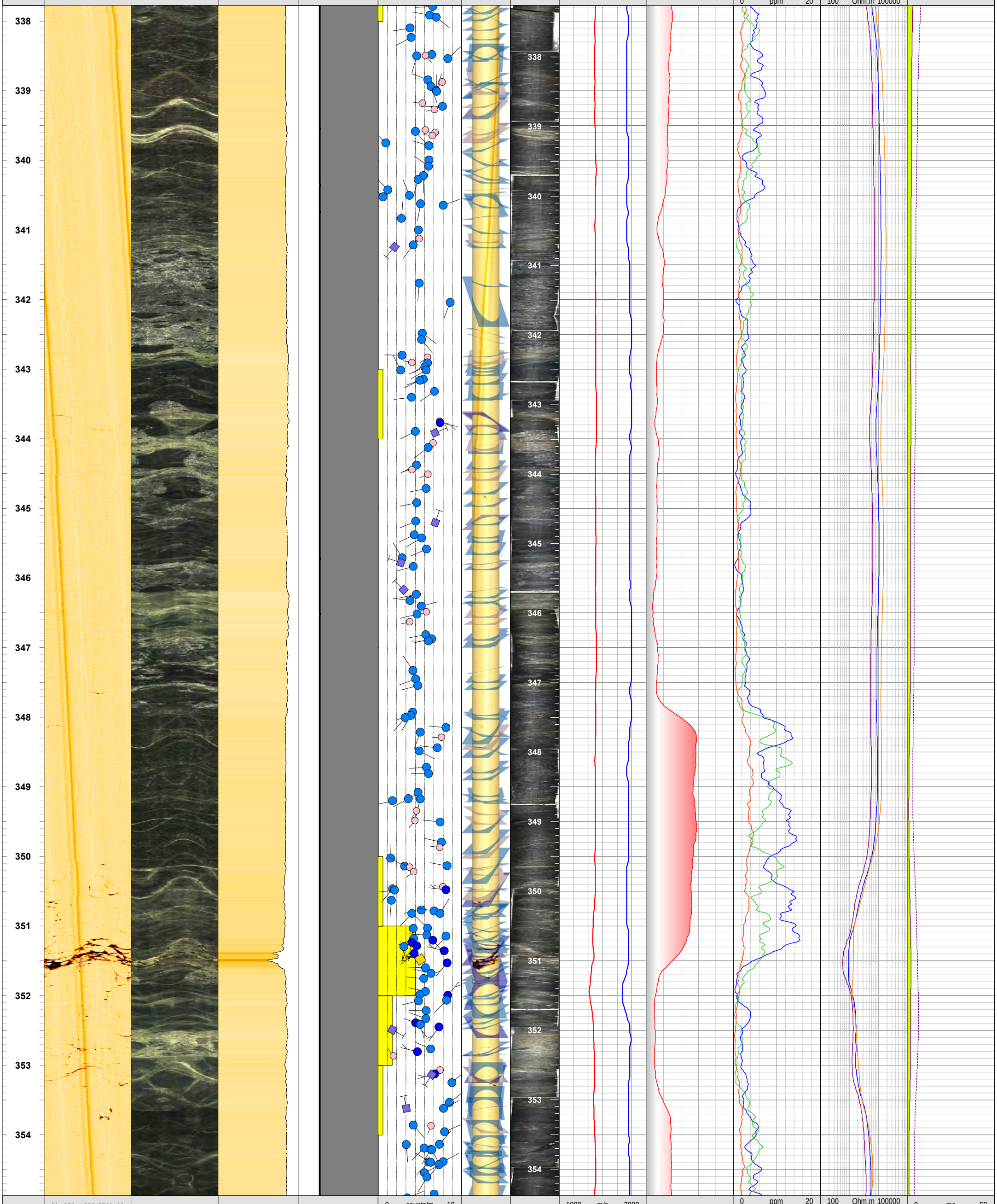
Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°	Core Depth	1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000	0 ms 50
	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	0 ms 50
										Th	N8	
										0 ppm 20	100 Ohm.m 100000	

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Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°	Core Depth	1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000	0 ms 50
	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	0 ms 50
										Th	N8	
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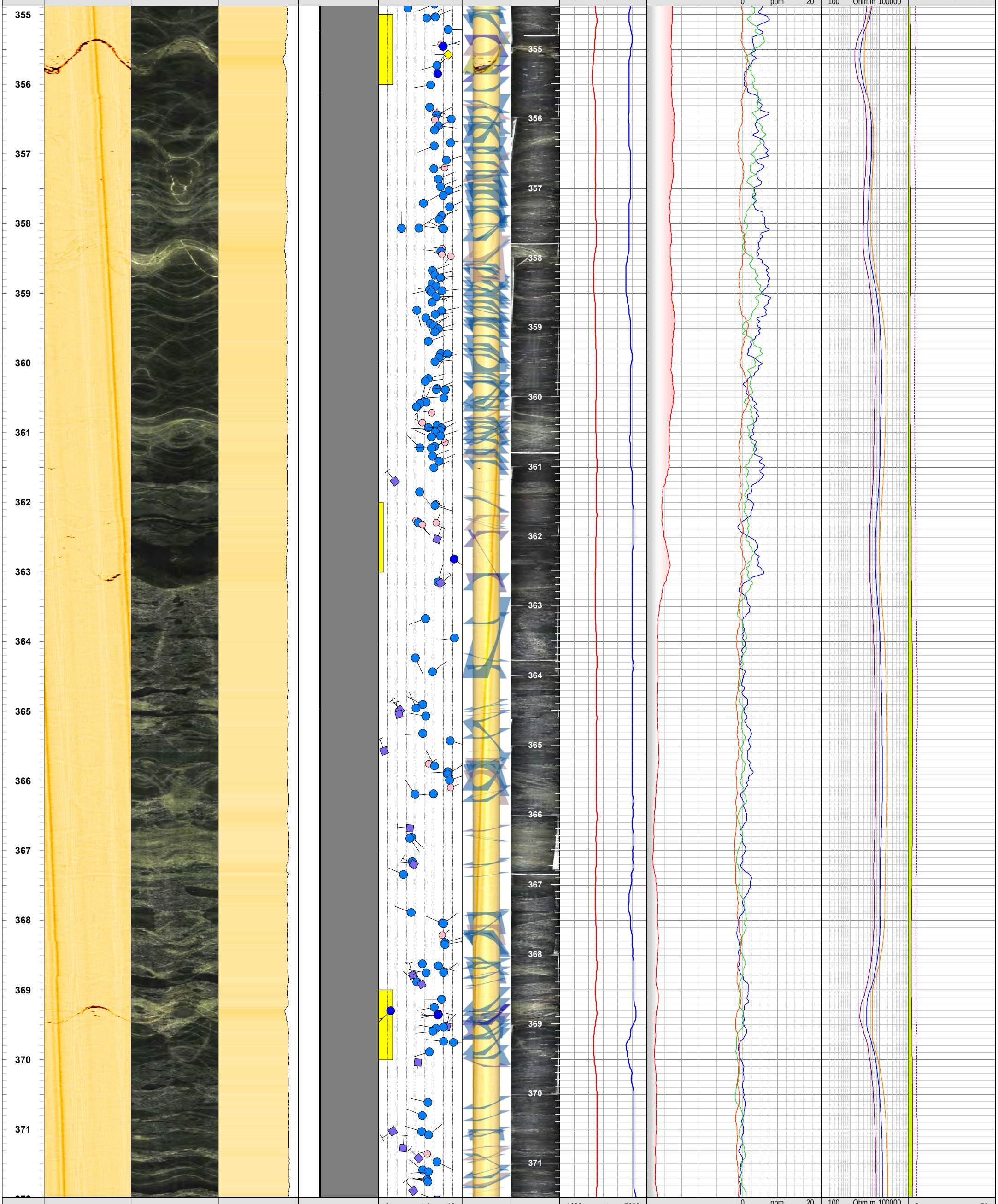
Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°	Core Depth	1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000	0 ms 50
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Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°	Core Depth	1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000	0 ms 50
	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	0 ms 50
										Th	N8	
										0 ppm 20	100 Ohm.m 100000	



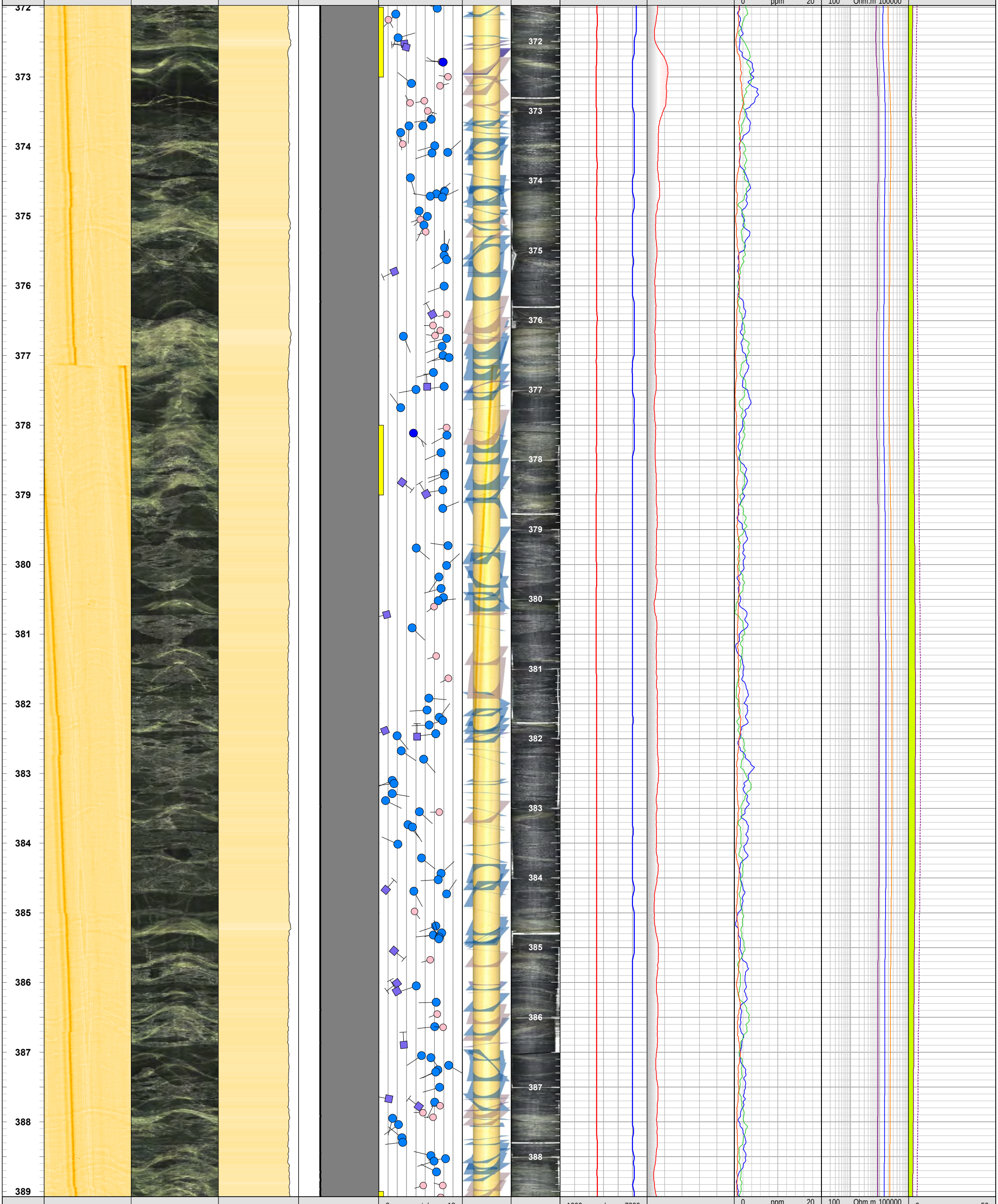
Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°	Core Depth	1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000	0 ms 50
	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	0 ms 50
										Th	N8	
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Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°	Core Depth	1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000	0 ms 50
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					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	0 ms 50
										Th	N8	
										0 ppm 20	100 Ohm.m 100000	



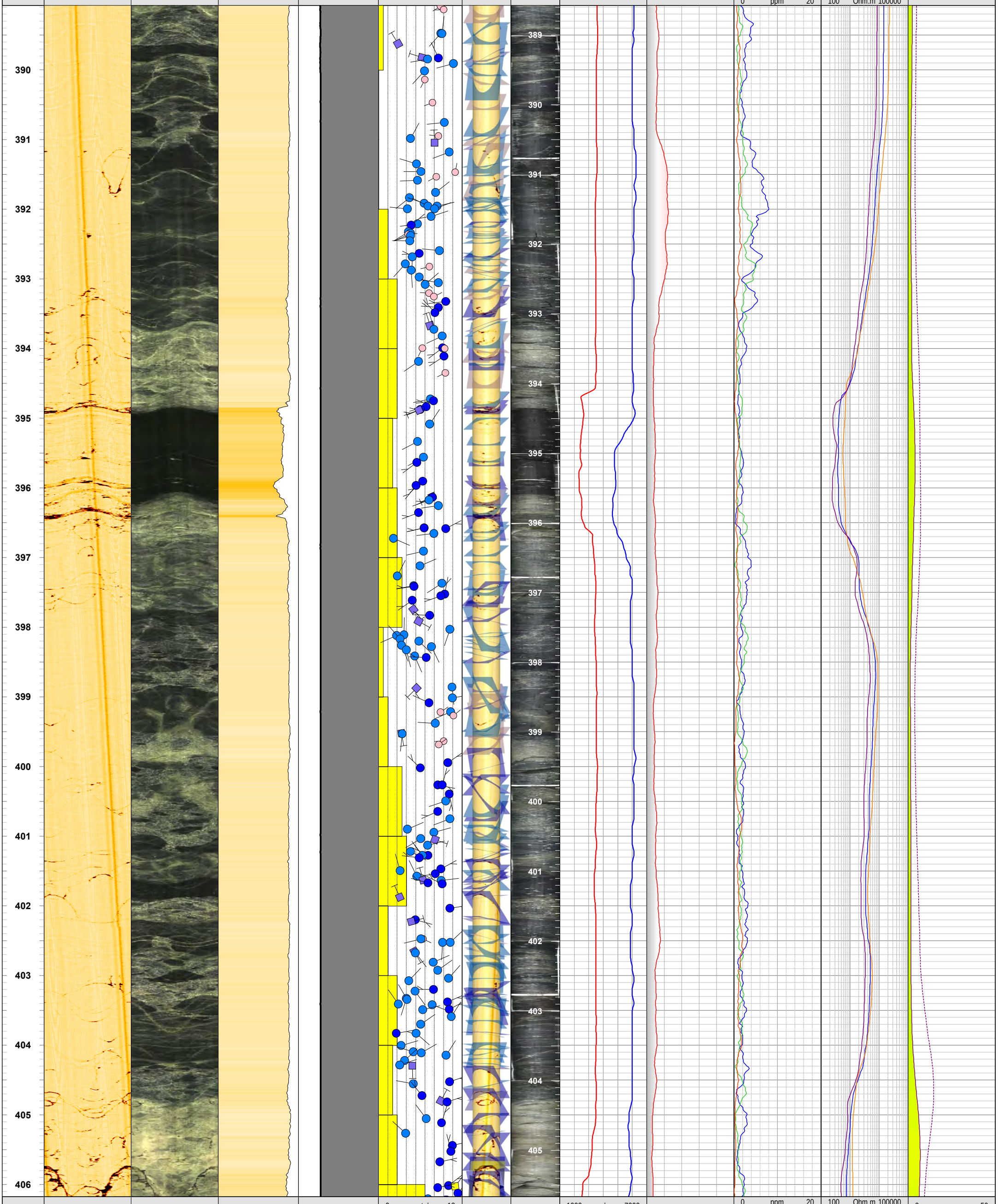
Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°	Core Depth	1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000	0 ms 50
	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	0 ms 50
										Th	N8	
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Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°	Core Depth	1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000	0 ms 50
	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		Th	N8	
										0 ppm 20	100 Ohm.m 100000	



1m:50m	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Core Depth	Vp	GR	Th	N8	Ma64
	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°	Matched Core	1000 m/s 7000	0 API 250	0 ppm 20	100 Ohm.m 100000	0 ms 50
	0° 90° 180° 270° 0°				Freq/metre			Vs		K	N32	Ma16
					0 counts/m 18			1000 m/s 7000		U	N16	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16

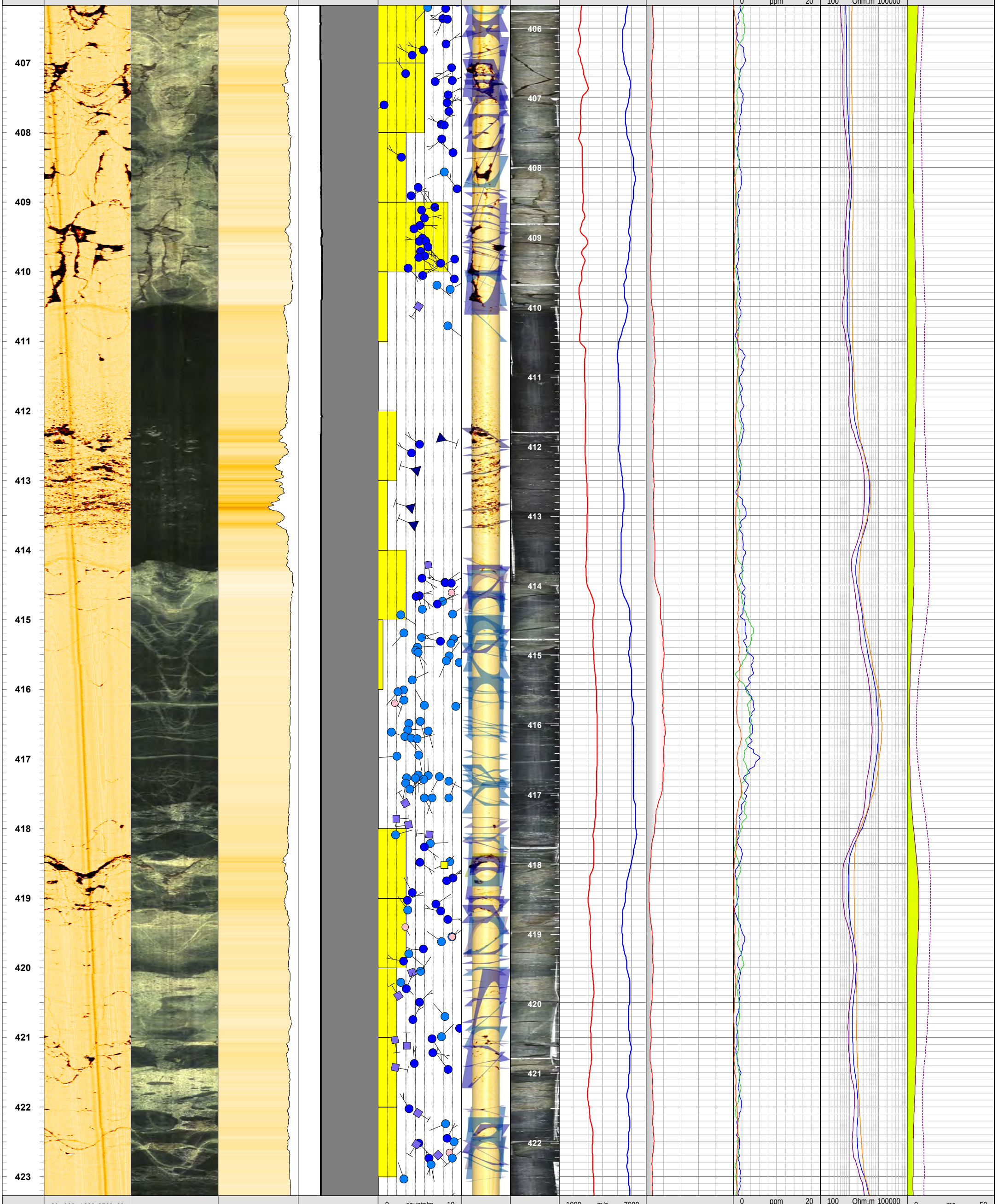
Depth	Image Logs	Calliper	Structural Logs	Sonic Logs	Gamma Logs	Electrical Logs

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Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°	Core Depth	1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000	0 ms 50
	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		Th	N8	
										0 ppm 20	100 Ohm.m 100000	0 ms 50



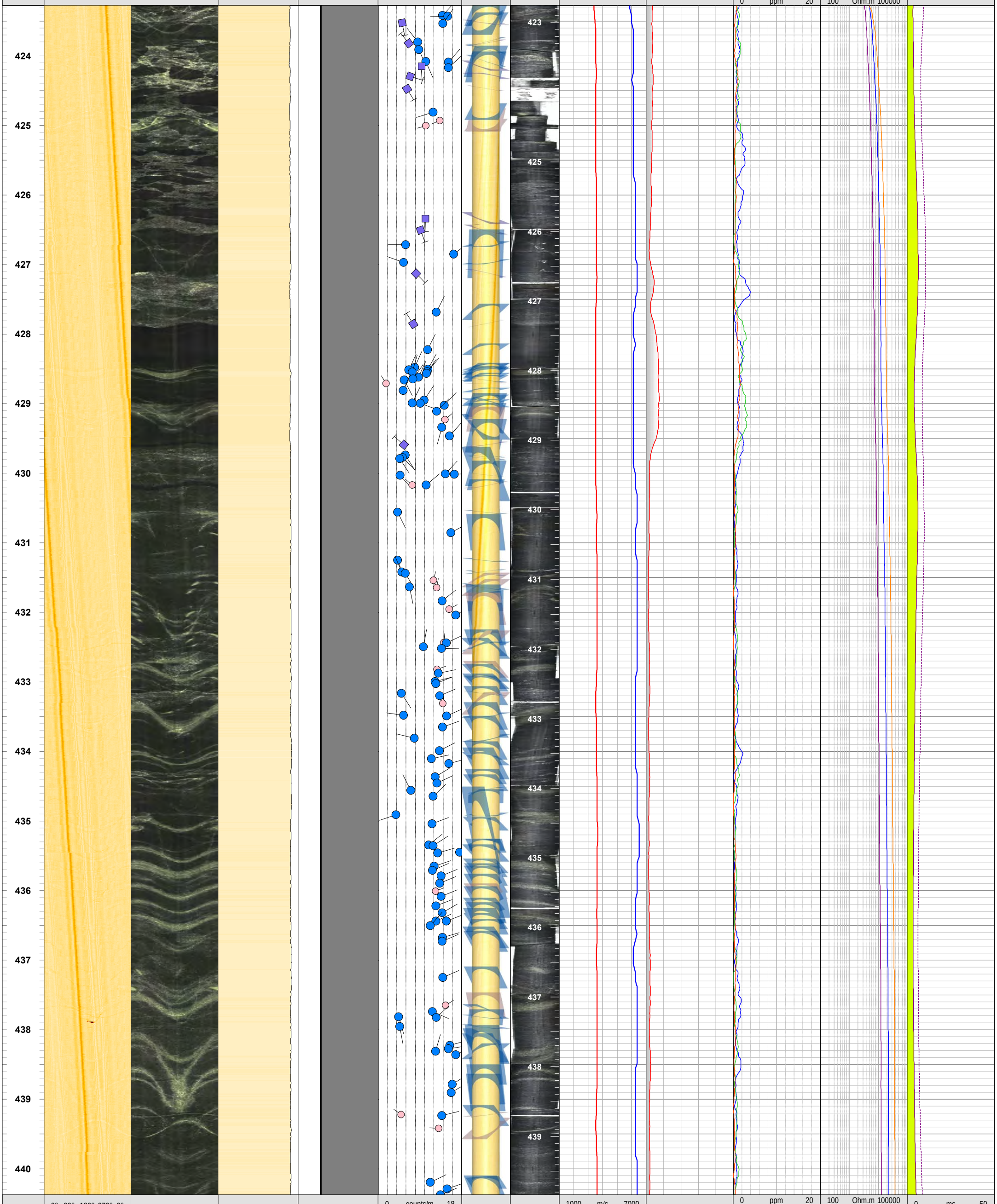
Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°	Core Depth	1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000	0 ms 50
	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		Th	N8	
										0 ppm 20	100 Ohm.m 100000	0 ms 50

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Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs	Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U / K / Th	N16 / N32 / N8	Ma16 / Ma64
1m:50m	500 – 6800 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0 – 10000	80 mm 160	0 – 90 Freq/metre 0 counts/m 18	-0°	Core Depth	1000 m/s 7000 Vp 1000 m/s 7000	0 API 250	U: 0 ppm 10 K: 0 % 10 Th: 0 ppm 20	100 Ohm.m 100000 N16 N32 N8	0 ms 50 Ma16 Ma64



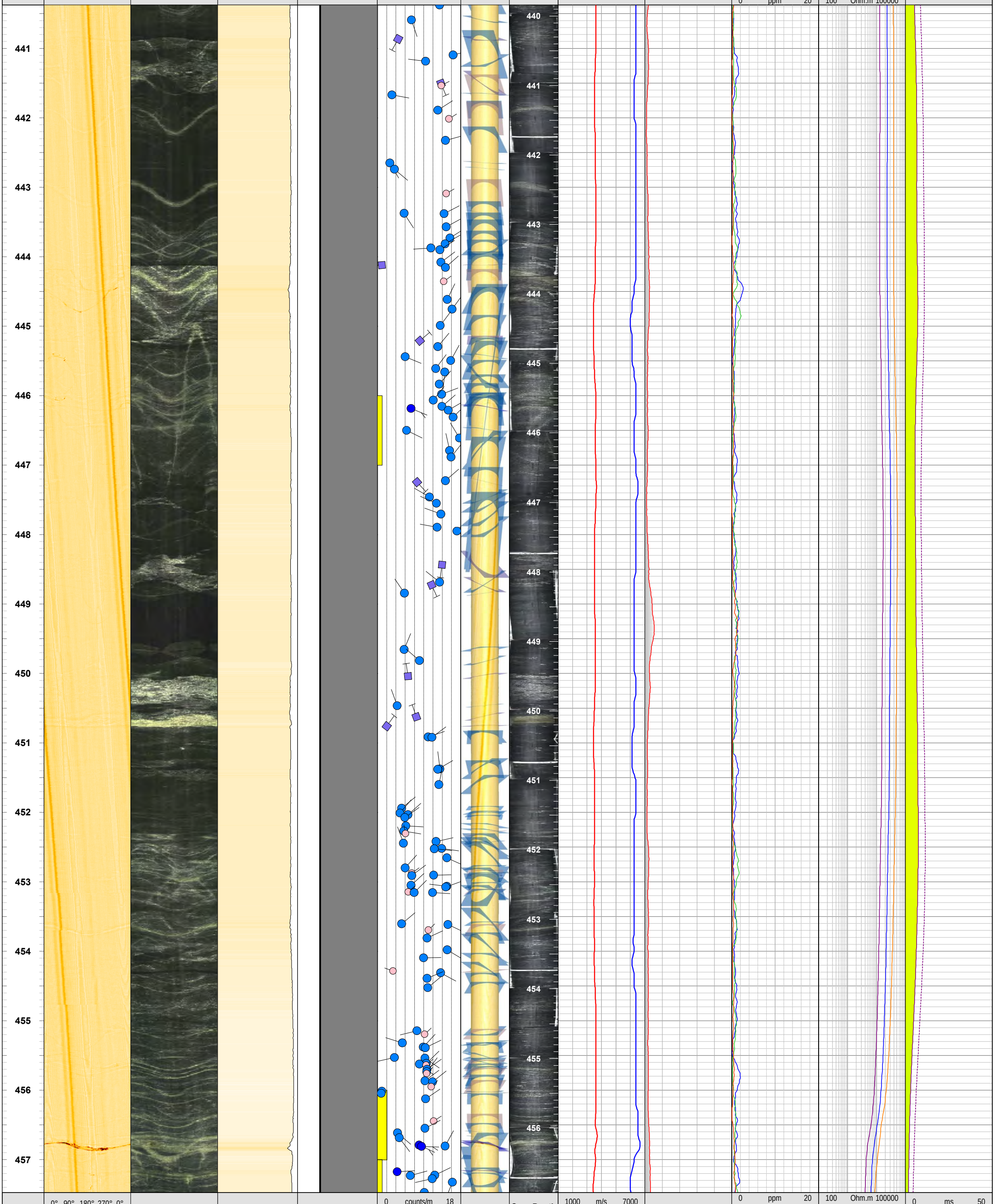
Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs	Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U / K / Th	N16 / N32 / N8	Ma16 / Ma64
1m:50m	500 – 6800 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0 – 10000	80 mm 160	0 – 90 Freq/metre 0 counts/m 18	-0°	Core Depth	1000 m/s 7000 Vp 1000 m/s 7000	0 API 250	U: 0 ppm 10 K: 0 % 10 Th: 0 ppm 20	100 Ohm.m 100000 N16 N32 N8	0 ms 50 Ma16 Ma64

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Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°	Core Depth	1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000	0 ms 50
	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	
										Th	N8	
										0 ppm 20	100 Ohm.m 100000	



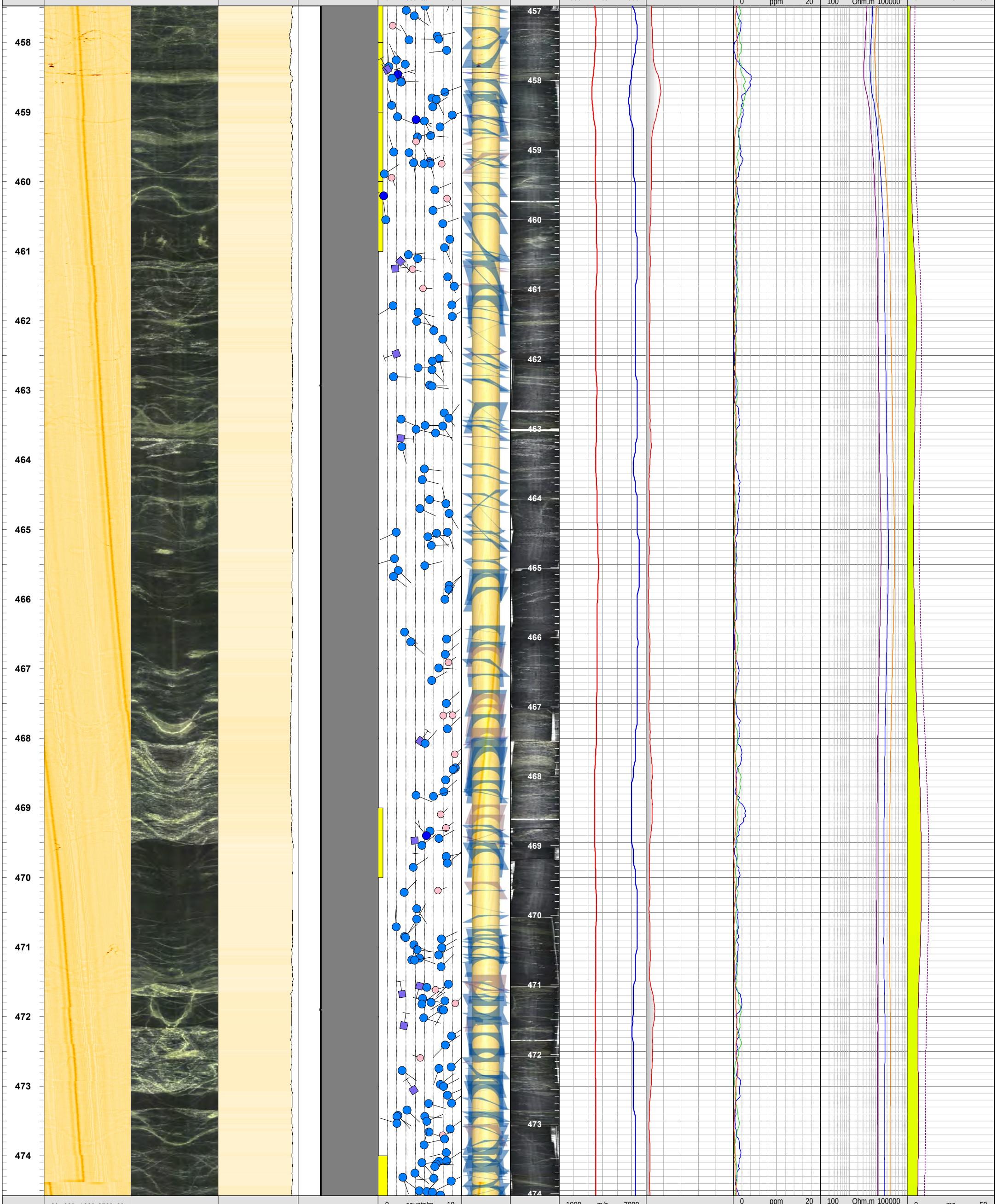
Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
1m:50m	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 counts/m 18	-0°	Core Depth	1000 m/s 7000	0 API 250	0 ppm 20	100 Ohm.m 100000	0 ms 50
	500 6800				Freq/metre			Vp		Th	N8	Ma64
					0 90			1000 m/s 7000		0 % 10	100 Ohm.m 100000	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	K	N32	
										0 ppm 10	100 Ohm.m 100000	
										U	N16	Ma16
												0 ms 50

Depth	Image Logs	Calliper	Structural Logs	Sonic Logs	Gamma Logs	Electrical Logs
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Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°	Core Depth	1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000	0 ms 50
	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	0 ms 50
										Th	N8	
										0 ppm 20	100 Ohm.m 100000	



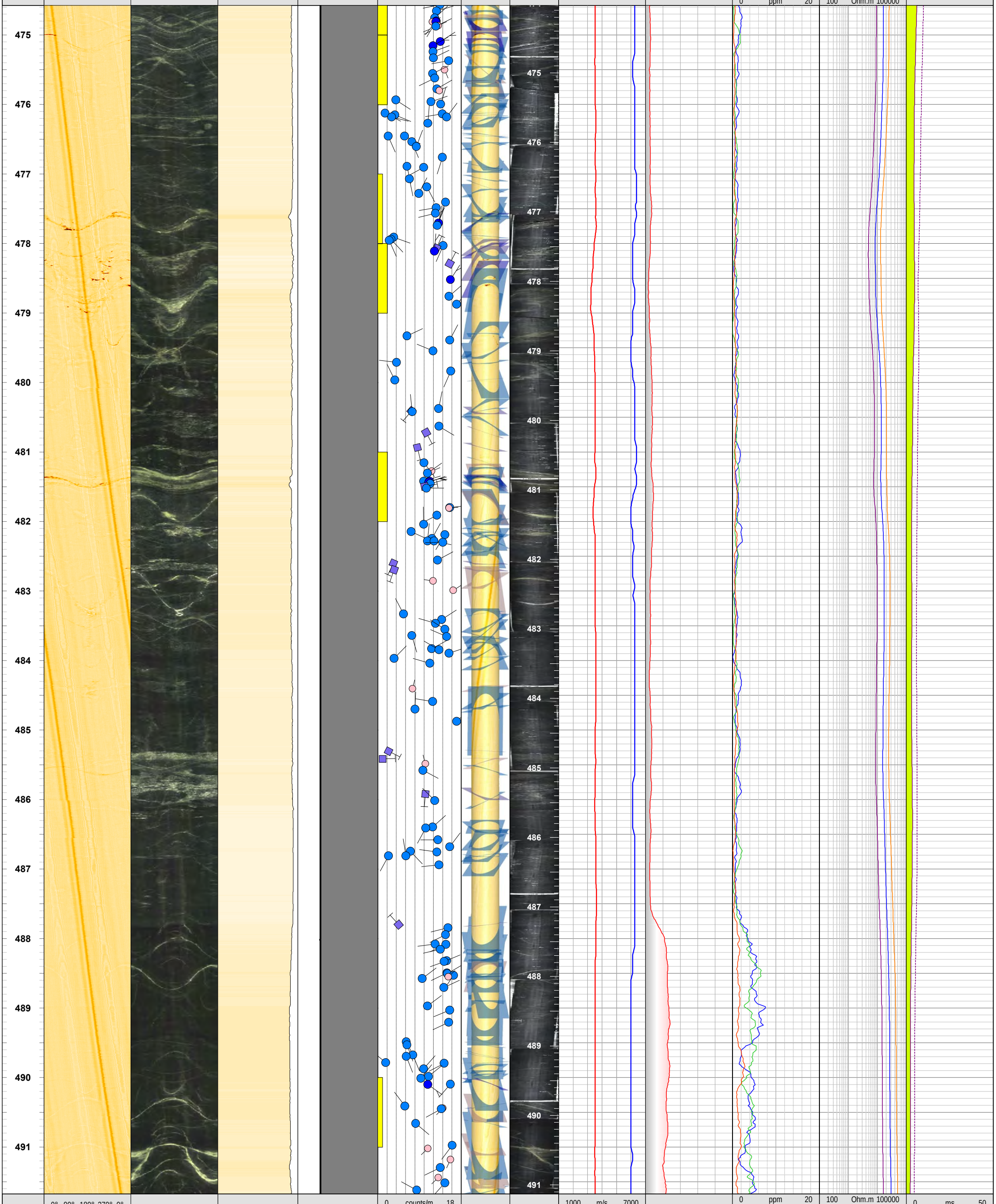
Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°	Core Depth	1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000	0 ms 50
	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	0 ms 50
										Th	N8	
										0 ppm 20	100 Ohm.m 100000	

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Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs	Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°	Core Depth	1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000
	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000
										Th	N8
										0 ppm 20	100 Ohm.m 100000

Ma16	Ma64
0 ms 50	0 ms 50



Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs	Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°	Core Depth	1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000
	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000
										Th	N8
										0 ppm 20	100 Ohm.m 100000

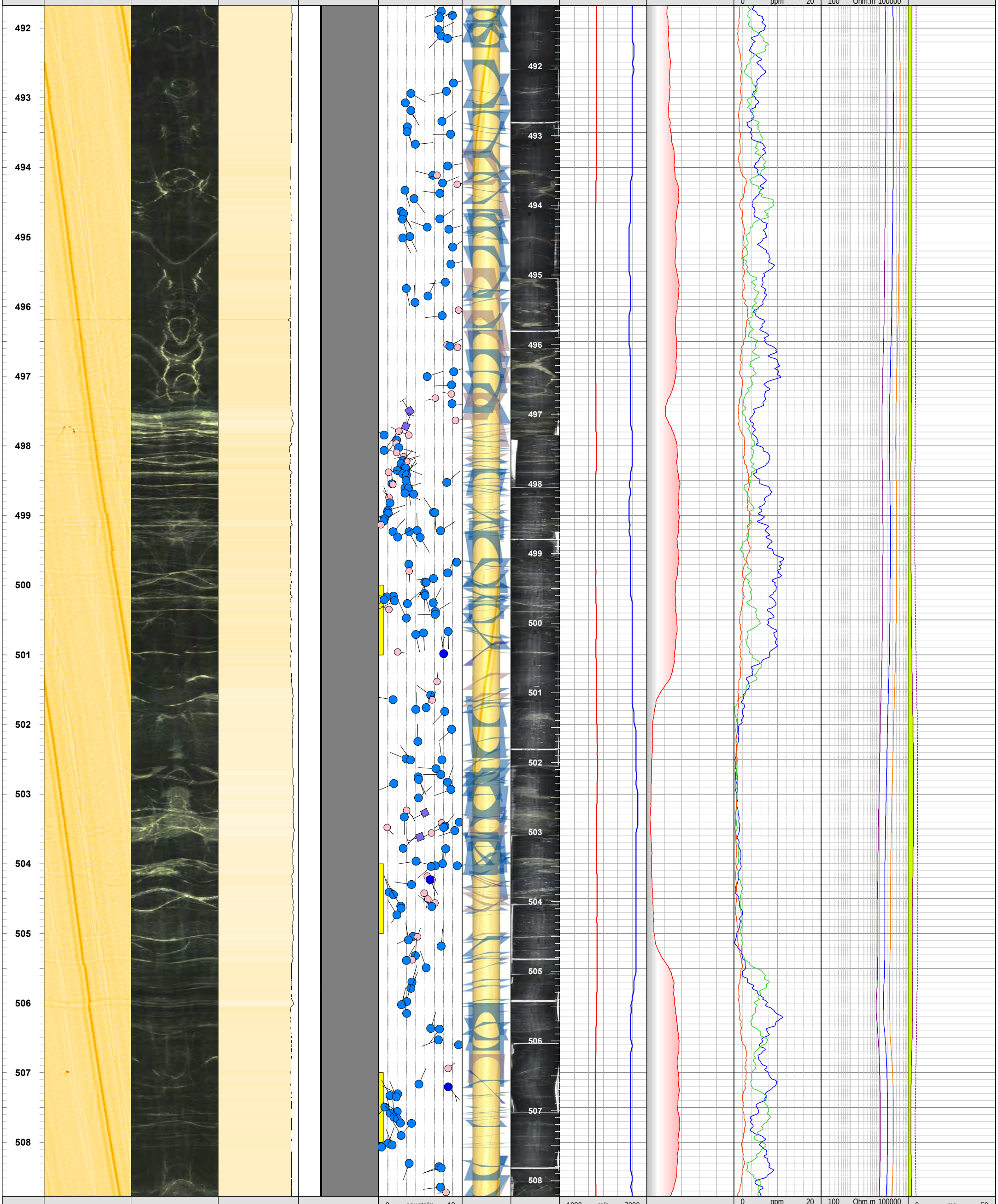
Ma16	Ma64
0 ms 50	0 ms 50

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Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16
	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°		1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000
1m:50m	0° 90° 180° 270° 0°				Freq/metre		Core Depth	Vp		K	N32
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000
										Th	N8
										0 ppm 20	100 Ohm.m 100000
											Ma16
											0 ms 50
											Ma64
											0 ms 50

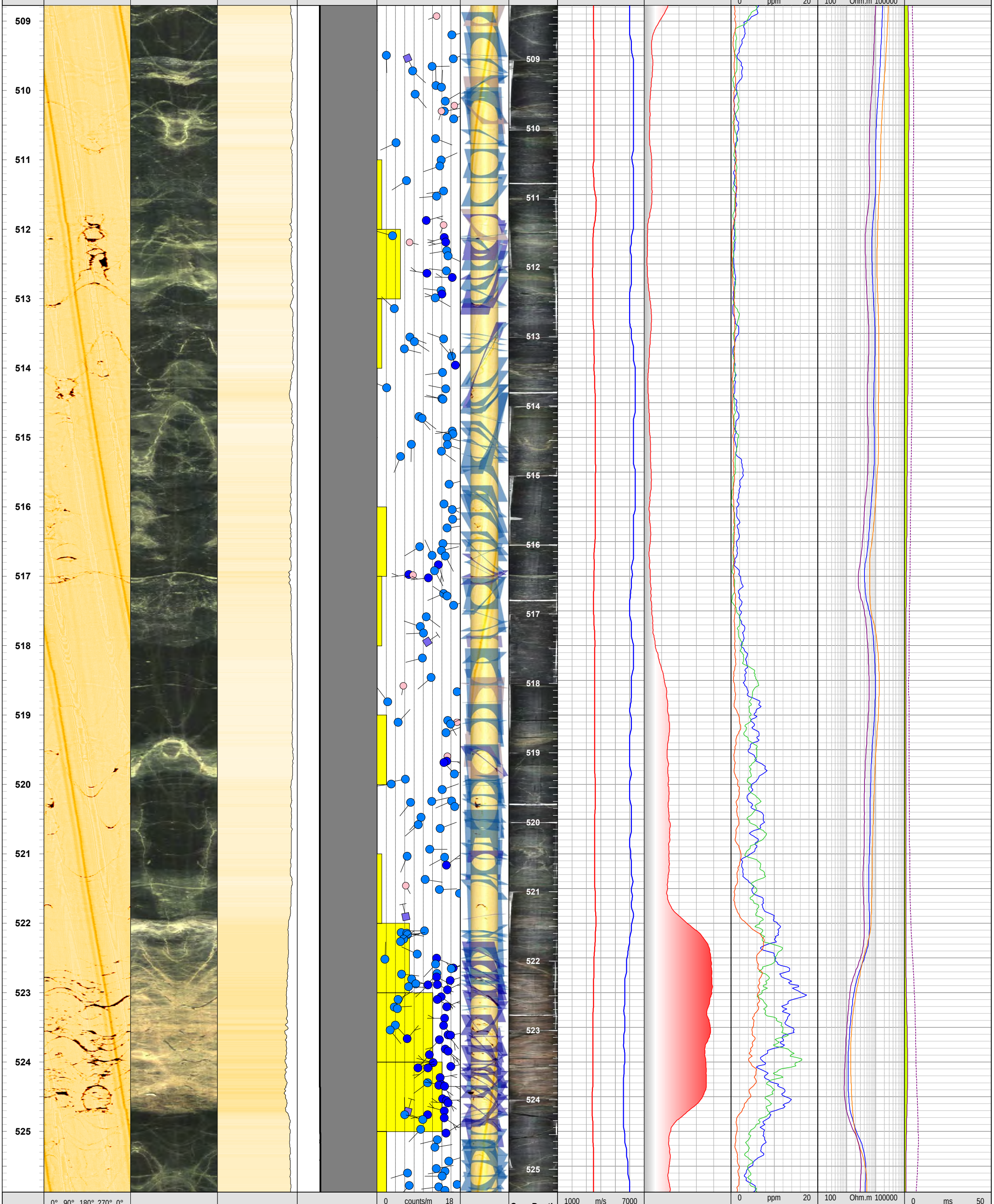


Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs	Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16
	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°		1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000
1m:50m	0° 90° 180° 270° 0°				Freq/metre		Core Depth	Vp		K	N32
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000
										Th	N8
										0 ppm 20	100 Ohm.m 100000
											Ma16
											0 ms 50
											Ma64
											0 ms 50

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Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U / K / Th	N16 / N32 / N8	Ma16 / Ma64
1m:50m	500 – 6800 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0 – 10000	80 mm 160	0 – 90 Freq/metre 0 counts/m 18	-0°	Core Depth	1000 m/s 7000 Vp 1000 m/s 7000	0 API 250	U: 0 ppm 10 K: 0 % 10 Th: 0 ppm 20	100 Ohm.m 100000	0 ms 50



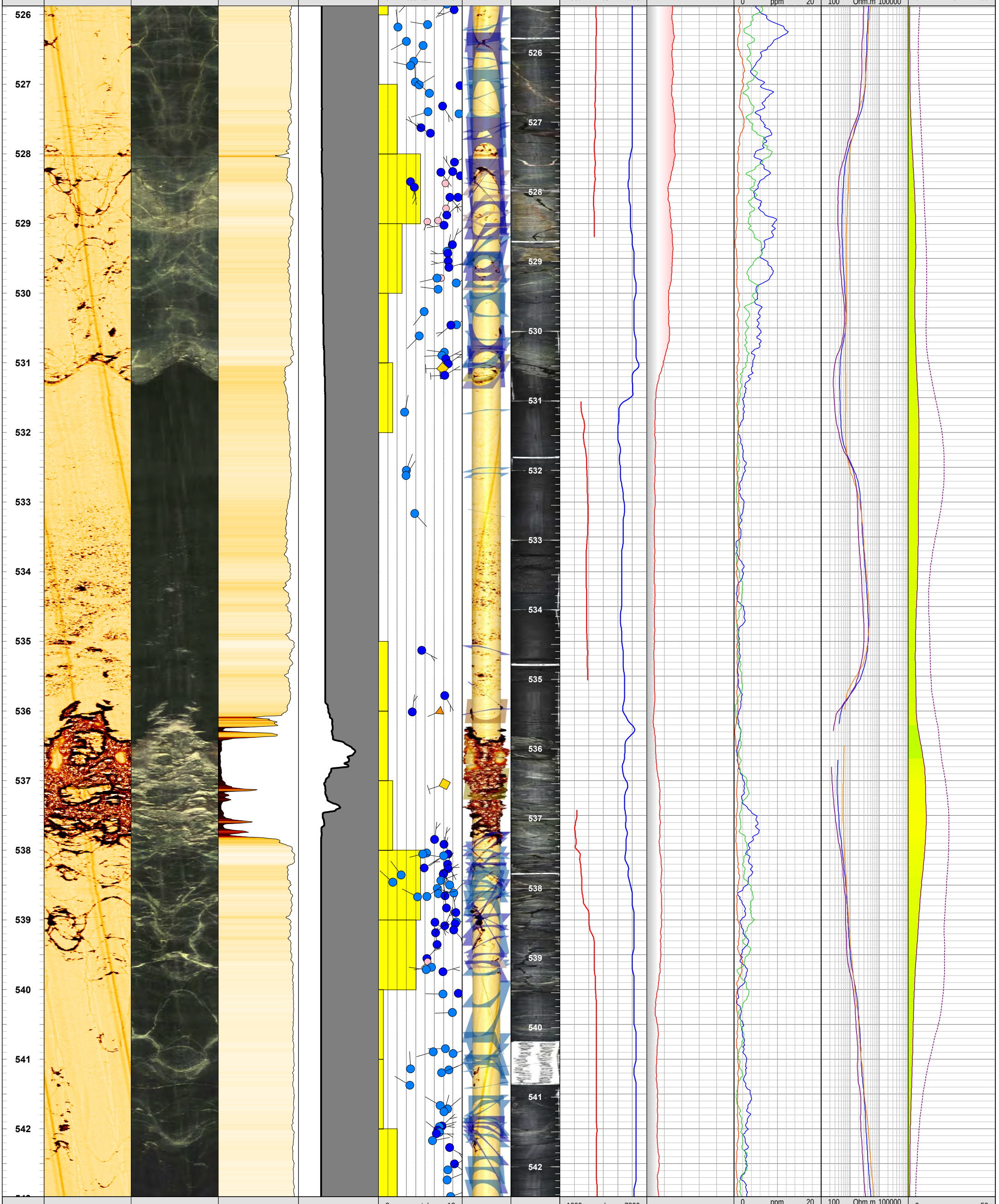
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Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U / K / Th	N16 / N32 / N8	Ma16 / Ma64
1m:50m	500 – 6800 0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0 – 10000	80 mm 160	0 – 90 Freq/metre 0 counts/m 18	-0°	Core Depth	1000 m/s 7000 Vp 1000 m/s 7000	0 API 250	U: 0 ppm 10 K: 0 % 10 Th: 0 ppm 20	100 Ohm.m 100000	0 ms 50

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	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	0 ms 50
										Th	N8	
										0 ppm 20	100 Ohm.m 100000	



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Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
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	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	0 ms 50
										Th	N8	
										0 ppm 20	100 Ohm.m 100000	

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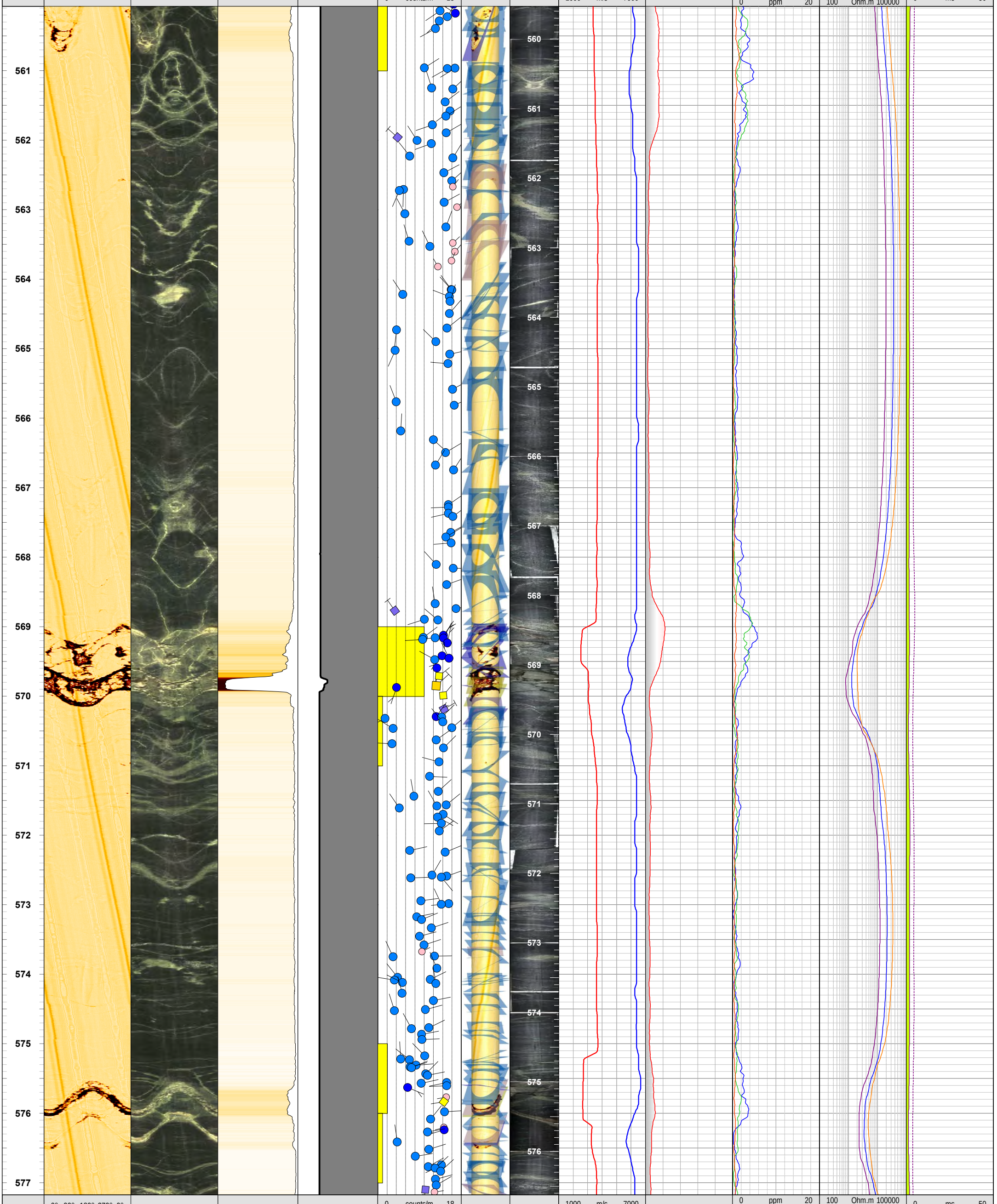
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Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°	Core Depth	1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000	0 ms 50
	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	0 ms 50
										Th	N8	
										0 ppm 20	100 Ohm.m 100000	

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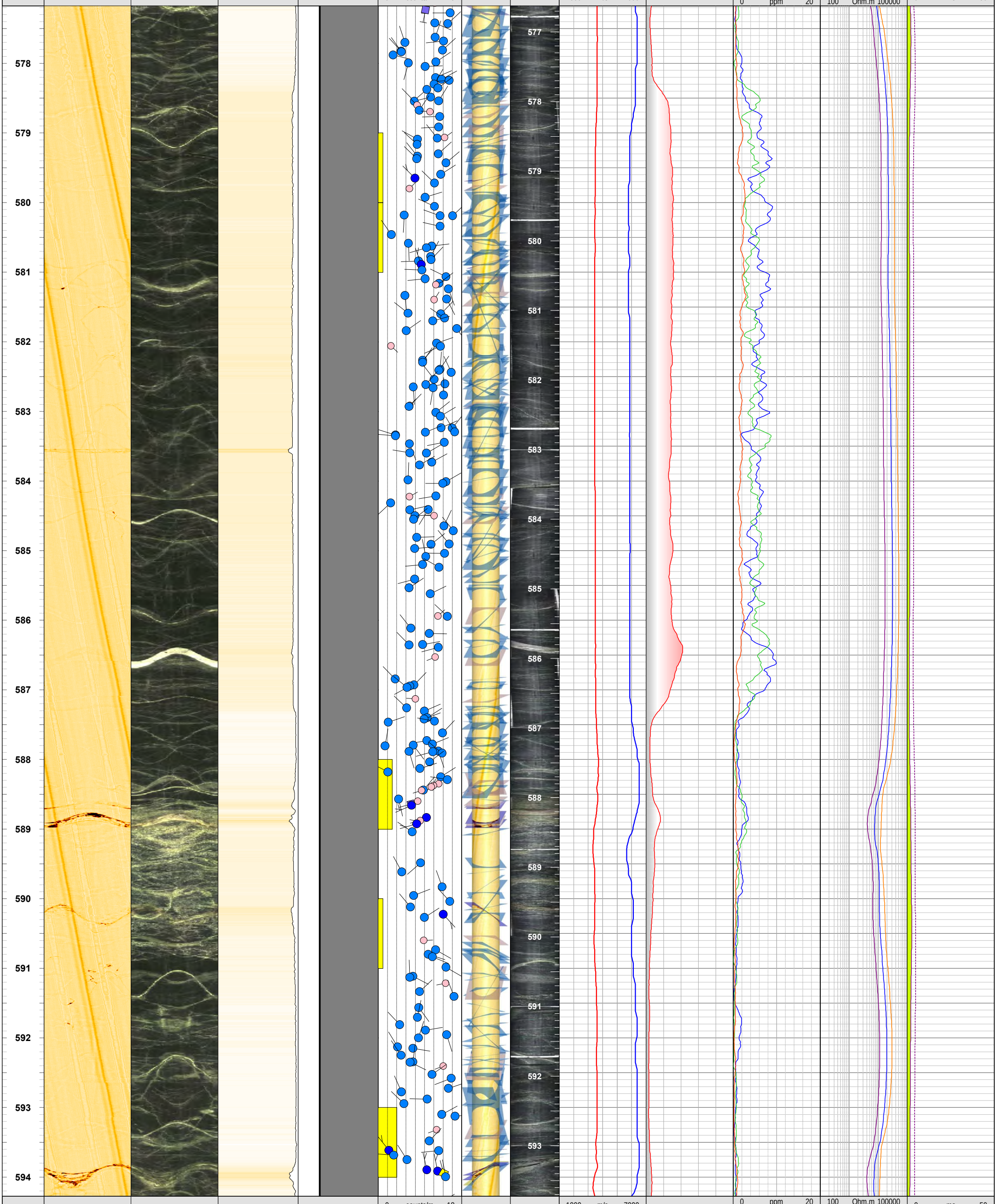
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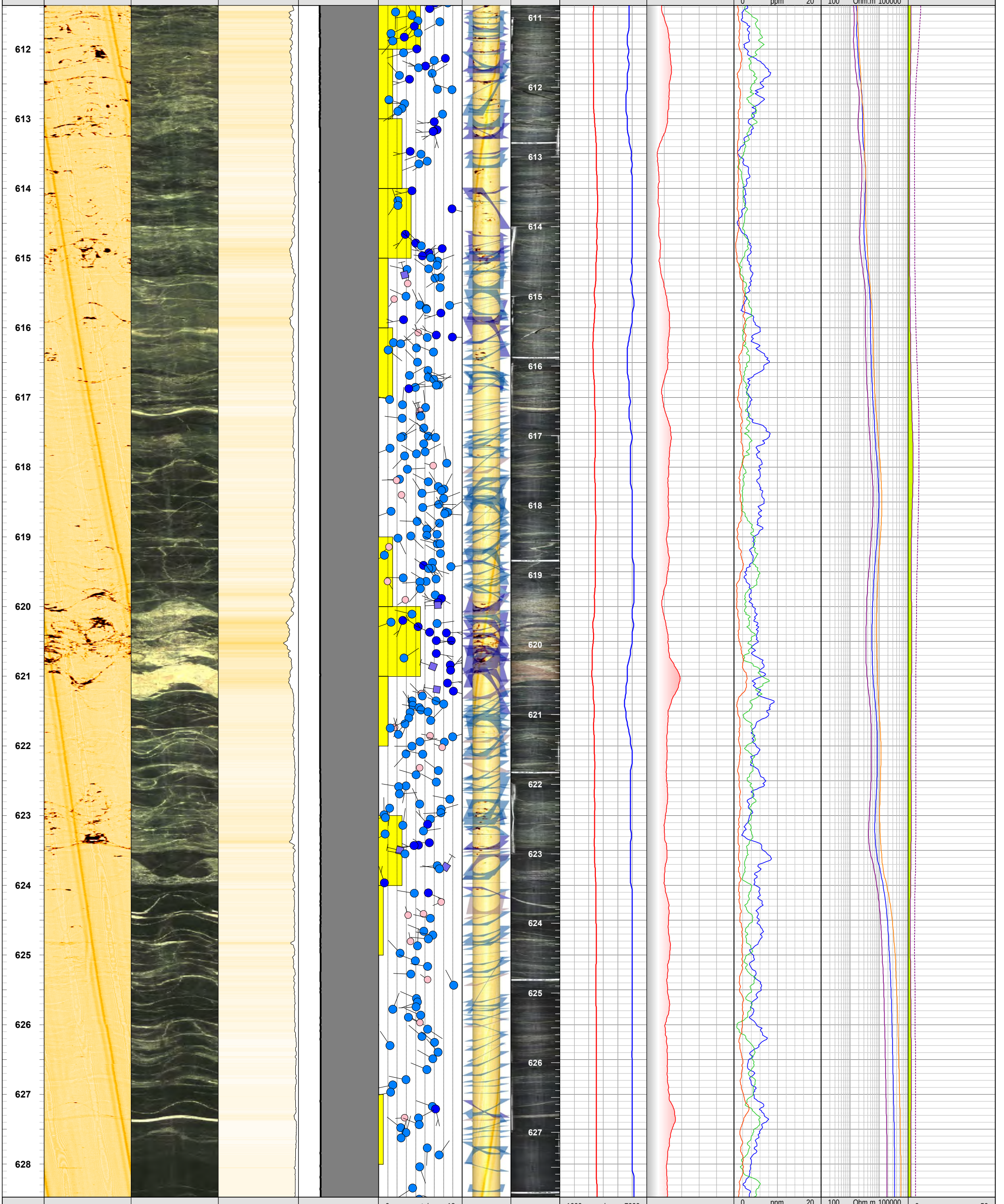
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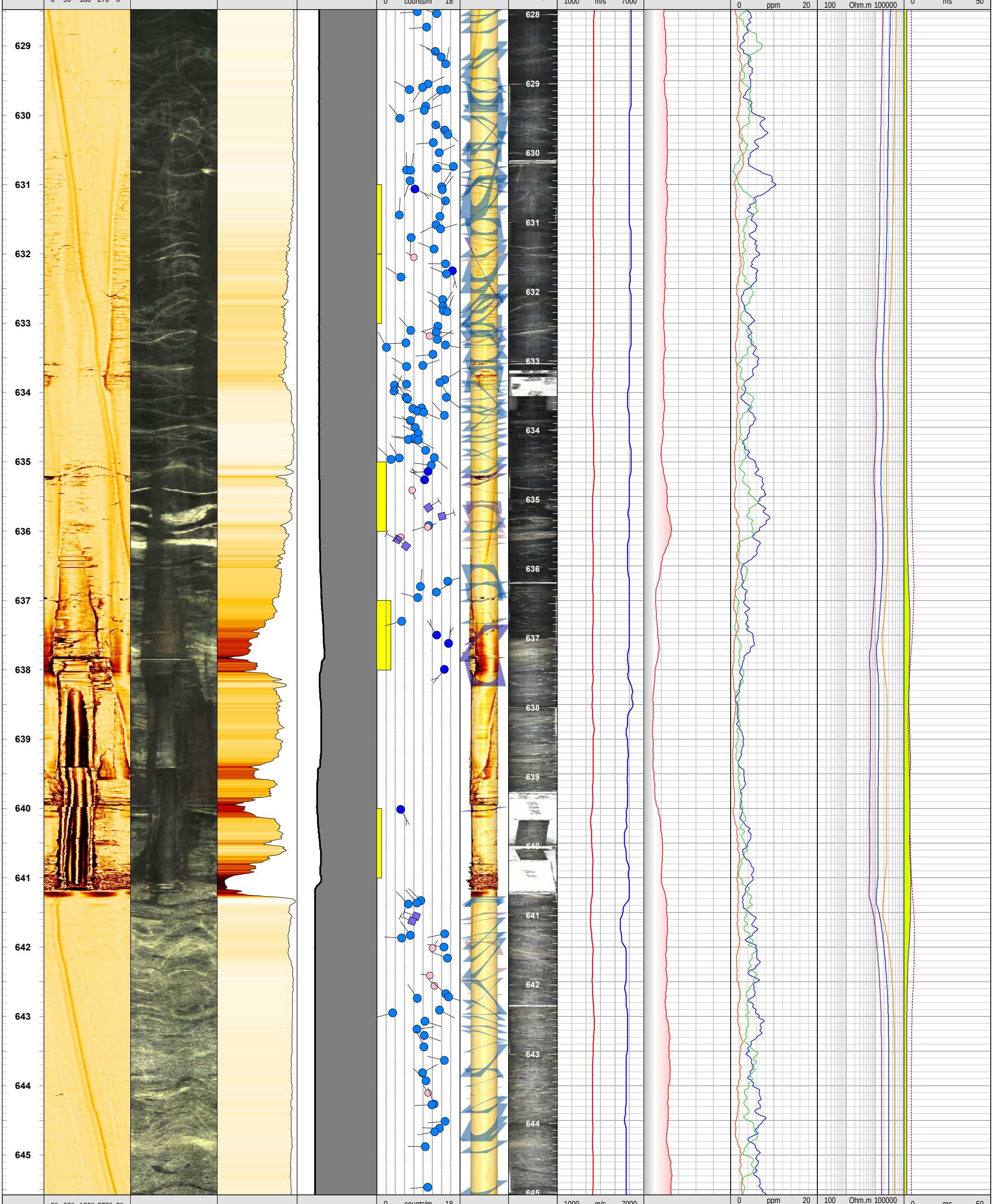
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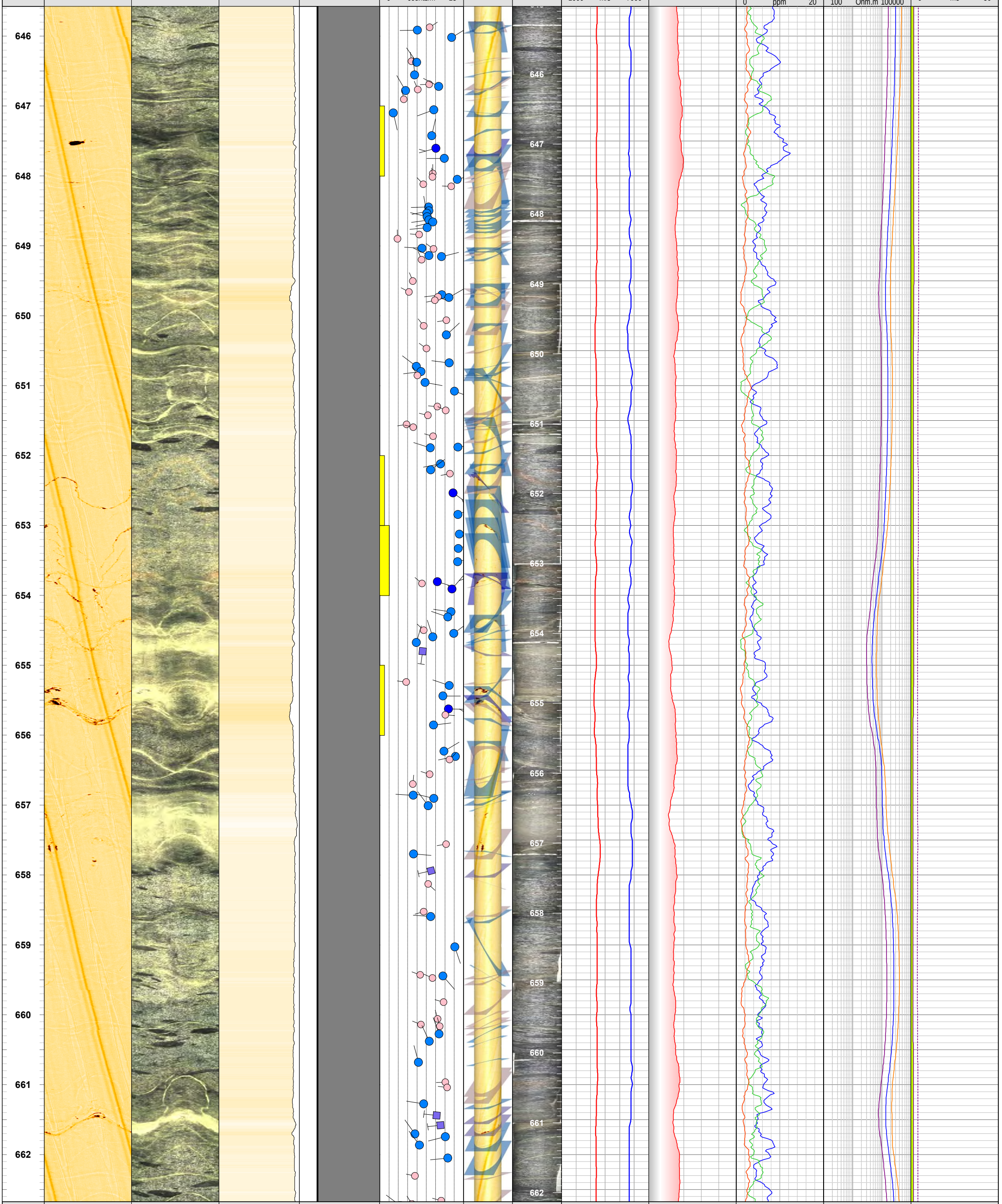
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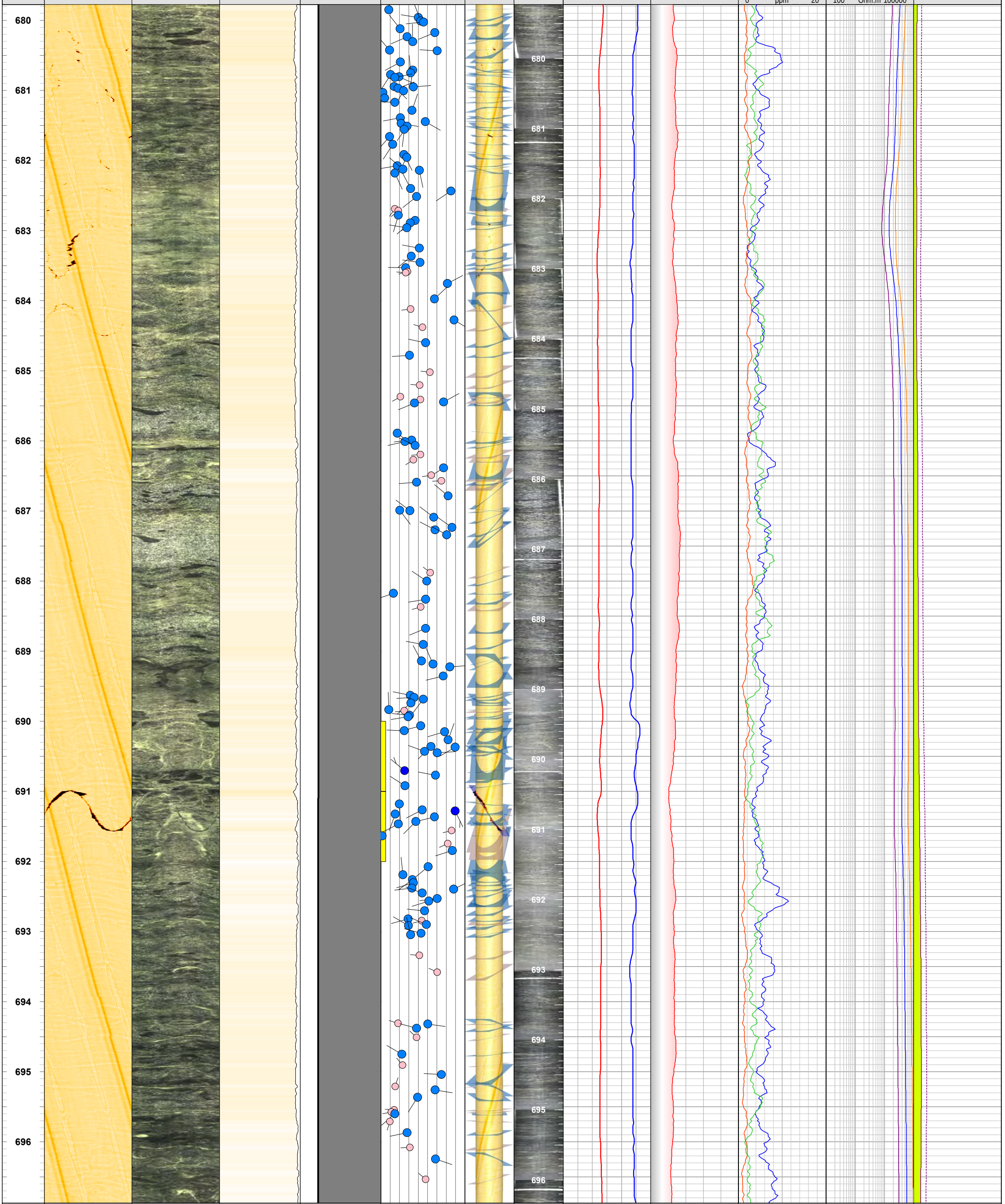
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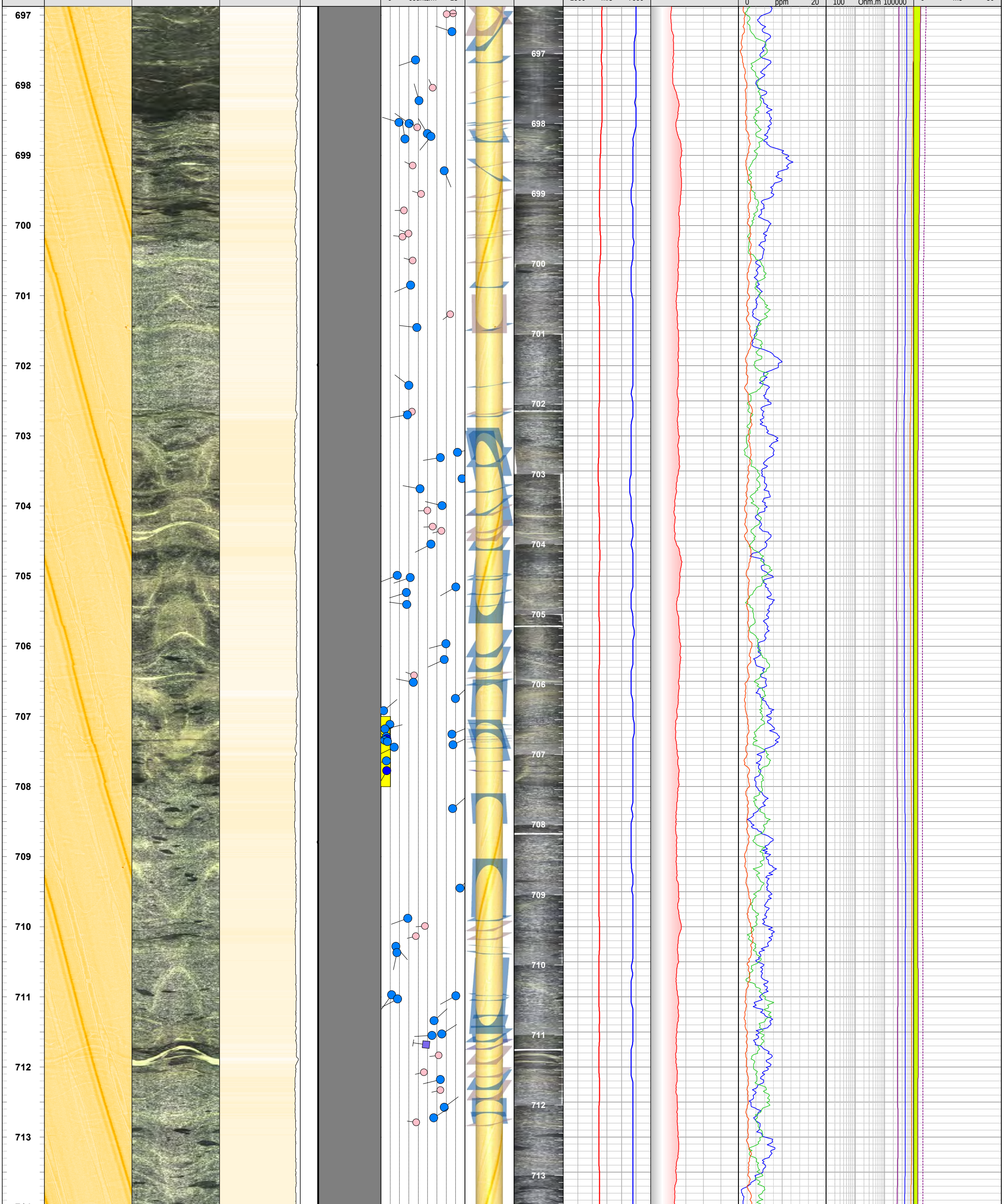
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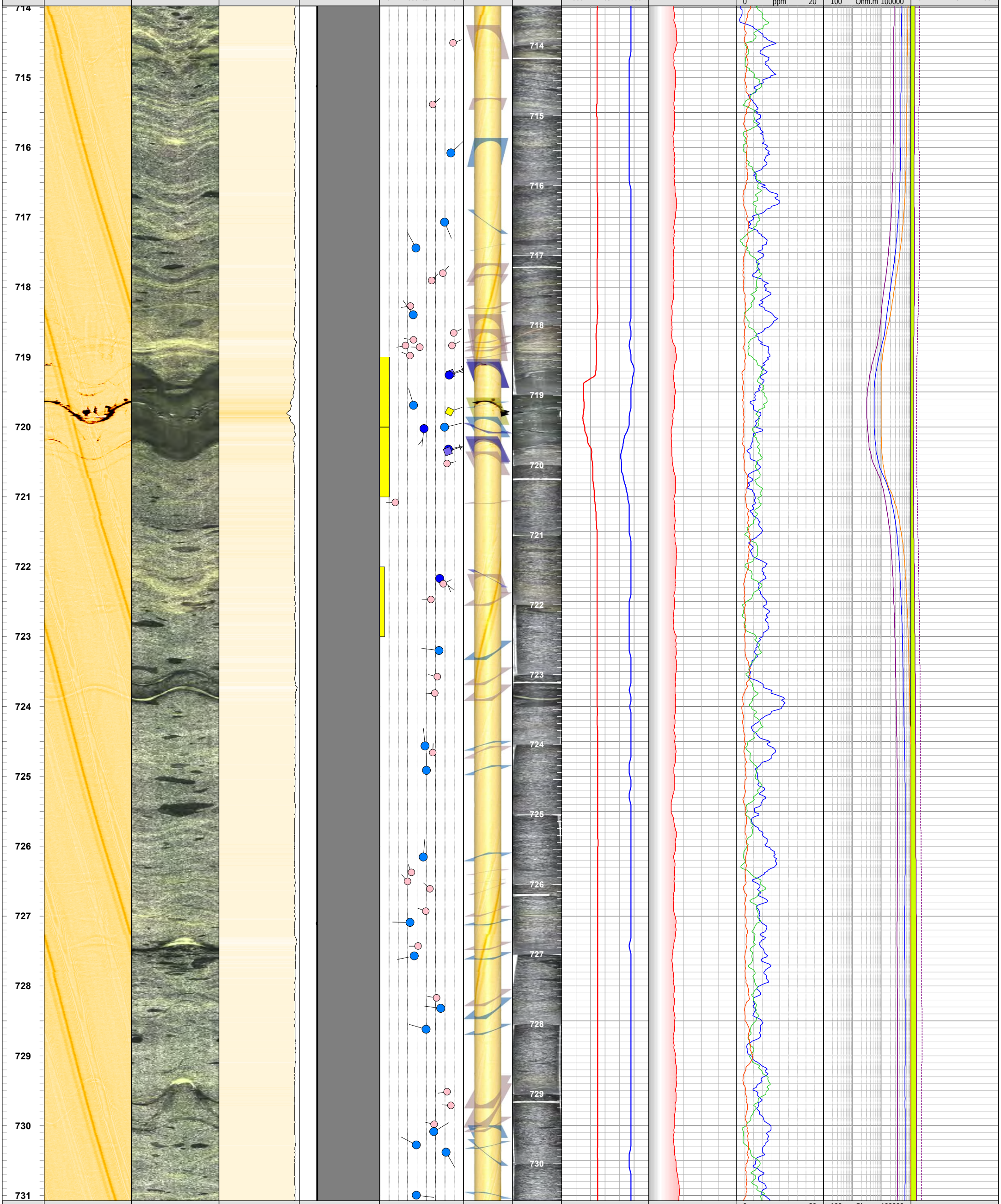
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732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748

731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747

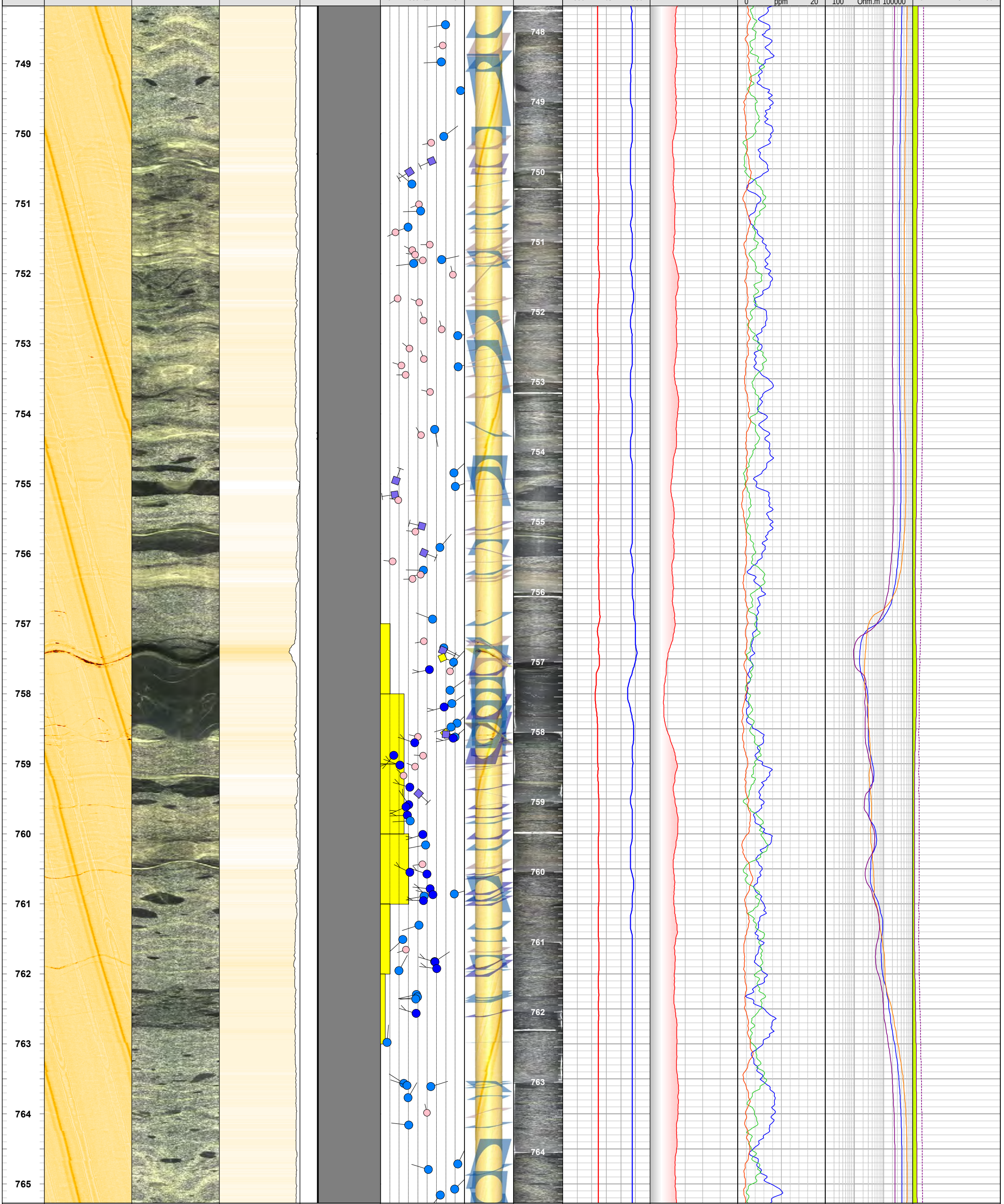
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Ma16	Ma64
0 ms 50	0 ms 50

765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782

Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs	Electrical Logs	
1m:50m	0° 90° 180° 270° 0° 500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 counts/m 18	-0°	Core Depth	1000 m/s 7000	0 API 250	0 ppm 20	100 Ohm.m 100000
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Freq/metre	3D ATV	Matched Core	Vp	GR	Th	N8
					0 90			1000 m/s 7000		0 % 10	100 Ohm.m 100000
					Structures - TN			Vs		K	N32
										0 ppm 10	100 Ohm.m 100000
										U	N16

Ma64	Ma16
0 ms 50	0 ms 50

Depth	Image Logs	Calliper	Structural Logs	Sonic Logs	Gamma Logs	Electrical Logs

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Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°	Core Depth	1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000	0 ms 50
	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	
										Th	N8	
										0 ppm 20	100 Ohm.m 100000	

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Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°	Core Depth	1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000	0 ms 50
	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	0 ms 50
										Th	N8	
										0 ppm 20	100 Ohm.m 100000	

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	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	
										Th	N8	
										0 ppm 20	100 Ohm.m 100000	

817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833

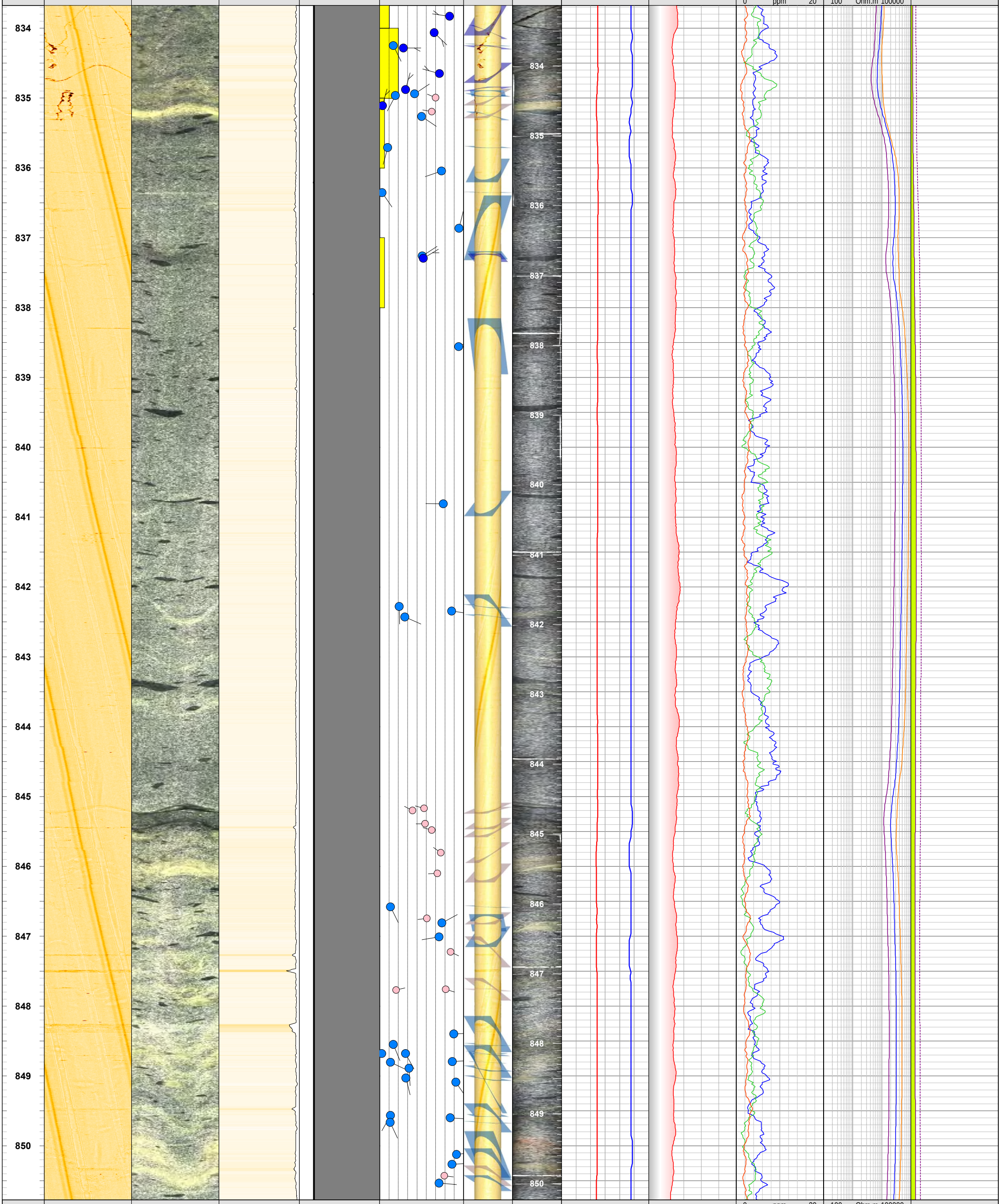
Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
1m:50m	500 6800	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 90	-0°	Core Depth	1000 m/s 7000	0 API 250	0 ppm 10	100 Ohm.m 100000	0 ms 50
	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	
										Th	N8	
										0 ppm 20	100 Ohm.m 100000	

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Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
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	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	0 ms 50
										Th	N8	
										0 ppm 20	100 Ohm.m 100000	



Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs		Electrical Logs	
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	Structures - TN	3D ATV	Matched Core	Vs	GR	U	N16	Ma16
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	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000	0 ms 50
										Th	N8	
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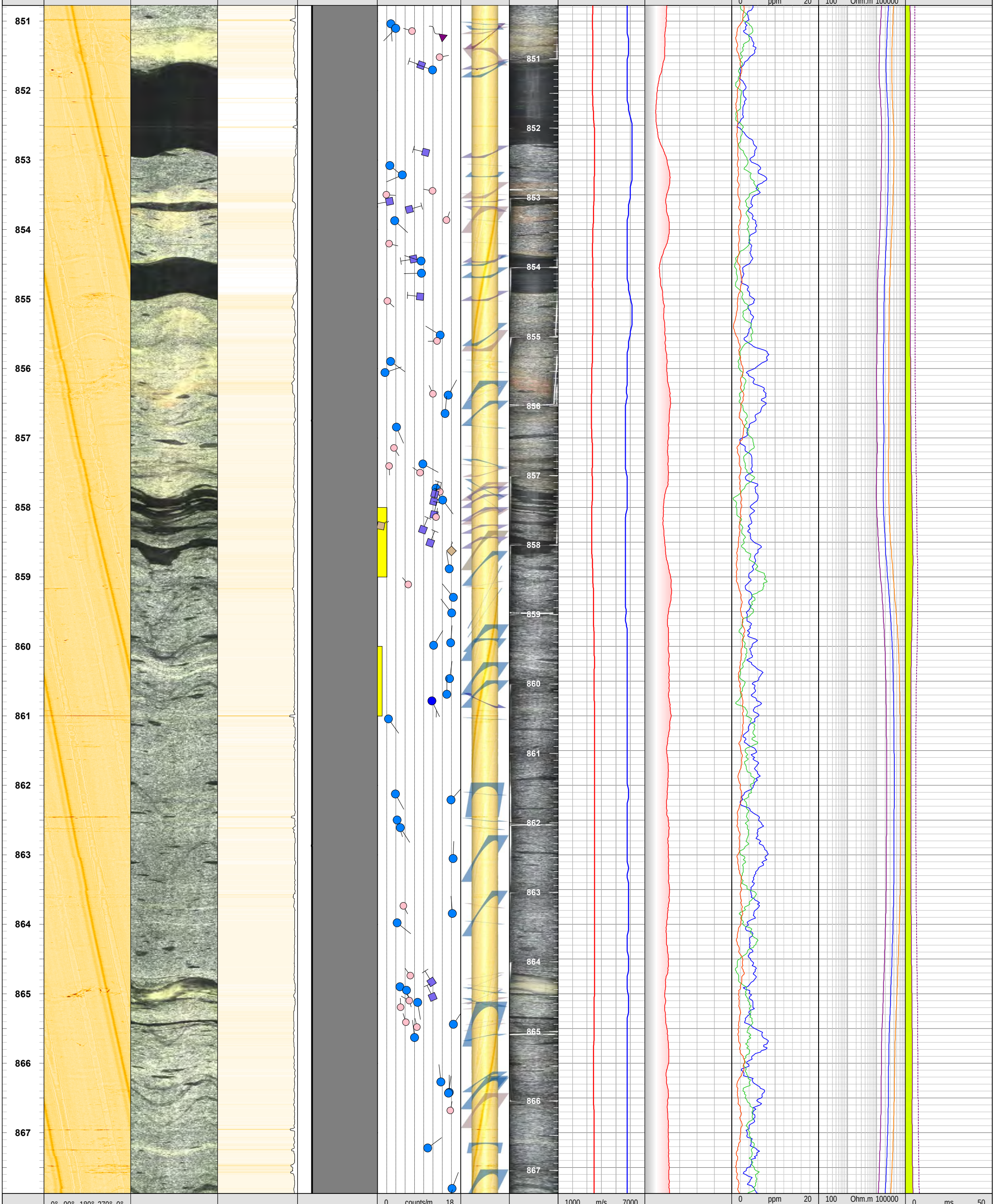
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Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs	Electrical Logs	
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	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32
					0 counts/m 18			1000 m/s 7000		0 % 10	100 Ohm.m 100000
										Th	N8
										0 ppm 20	100 Ohm.m 100000

Ma16	Ma64
0 ms 50	0 ms 50



Depth	Image Logs			Calliper	Structural Logs			Sonic Logs	Gamma Logs	Electrical Logs	
1m:50m	0° 90° 180° 270° 0°	0° 90° 180° 270° 0°	0 10000	80 mm 160	0 counts/m 18	-0°	Core Depth	1000 m/s 7000	0 API 250	0 ppm 20	100 Ohm.m 100000
	500 6800				Freq/metre			Vp		Th	N8
Depth	Amplitude-HS HPF	Image-HS PROC	Reflectivity	CAL	0 90	3D ATV	Matched Core	1000 m/s 7000	GR	0 % 10	100 Ohm.m 100000
					Structures - TN			Vs		K	N32
										0 ppm 10	100 Ohm.m 100000
										U	N16

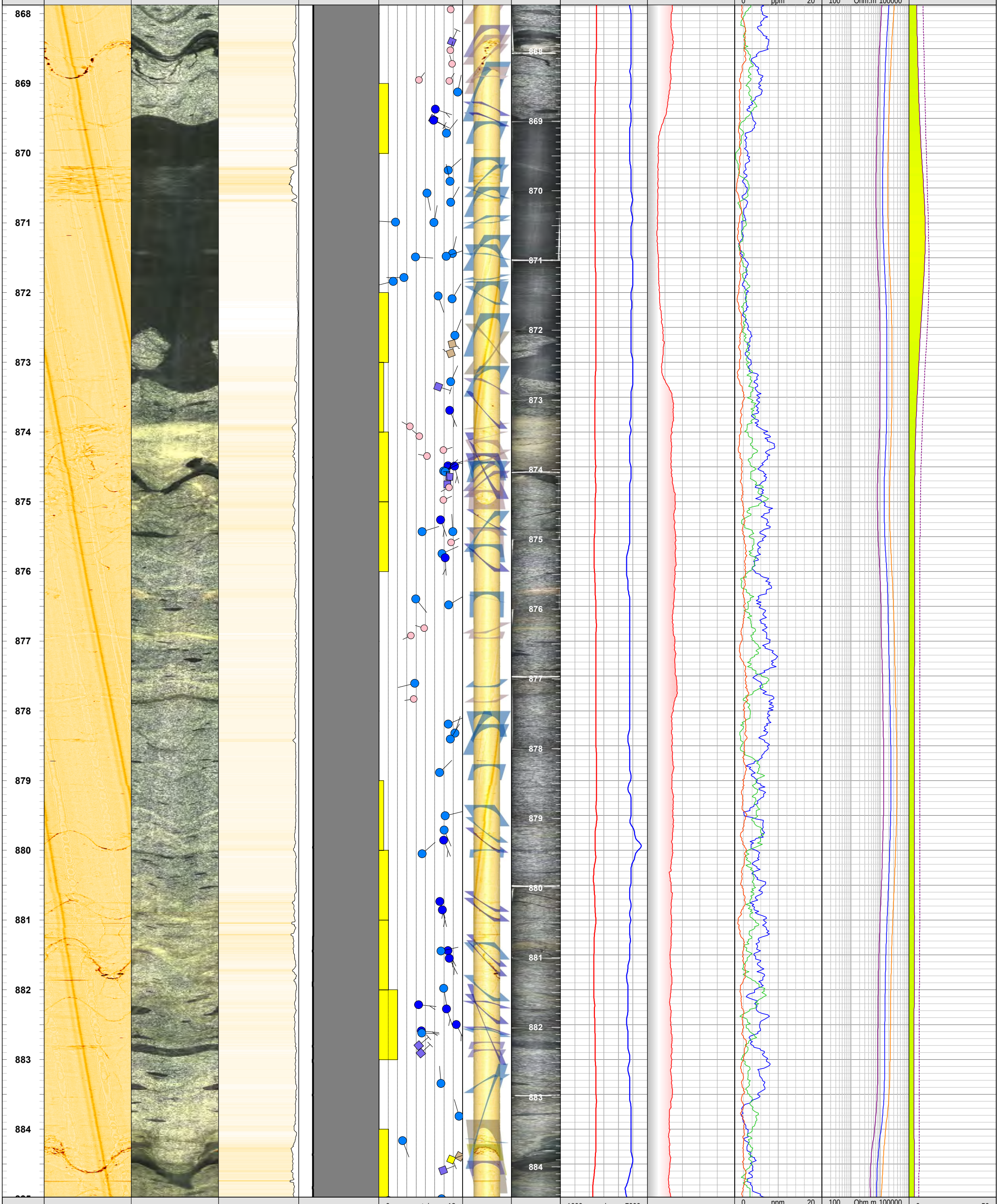
Ma64	Ma16
0 ms 50	0 ms 50
Depth	Image Logs	Calliper	Structural Logs	Sonic Logs	Gamma Logs	Electrical Logs

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	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		Th	N8	
										0 ppm 20	100 Ohm.m 100000	0 ms 50



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	0° 90° 180° 270° 0°				Freq/metre			Vp		K	N32	Ma64
					0 counts/m 18			1000 m/s 7000		Th	N8	
										0 ppm 20	100 Ohm.m 100000	0 ms 50

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