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ENGINEERING BORELOG

Main Roads

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/0-1998

BOREHOLE No : 1
SHEET : 1 OF 4
REFERENCE No : H8607

PROJECT : TUGUN BYPASS
LOCATION : 547593E, 6885243N
PROJECT No : C60290 SURFACE R.L. : 63.00 DRILLER : Daly Bros Pty Ltd
JOB No : DATUM : AHD DATE DRILLED : 22/9/99

DEPTH (m)	R.L. (m)	AUGER / CORE DRILLING / CASING / OTHER	RQD ( )% CORE REC%	SAMPLE	MATERIAL DESCRIPTION	USC	WEATHERING	INTACT STRENGTH (EH VH H M L)	DEFECT SPACING (mm) (20 60 200 600 2000)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	TESTS
0	63.00				Gravelly silty CLAY, orange brown	CL							
	62.70				**ARGILLITE & MINOR METAGREYWACKE** Grey, fine grained, weakly foliated metasedimentary rock. XW: generally exhibits engineering properties of grey, brown hard silty clay	XW							
1	61.70										irregular FeSt defects		
2			(0) 43										
3	60.00				HW: pale grey to brown, very low strength.						foliation 60 deg FeSt joints		
4			(0) 25										
5											some EW bands core fragmented		
6			(0) 30			HW					jt 40 deg, planar, FeSt some EW bands jt, 30 deg, curved, FeSt		
7			(37) 80								jt, 30 deg, curved, FeSt jt, 76 deg, planar, FeSt Is(50)=0.02MPa		x
8			(38) 100								foliation 60 deg		
9			(78) 100								poorly jointed foliation 64 deg		
10	53.00												

REMARKS : adjacent road cutting, foliation S7/234

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Main Roads

ENGINEERING BOREL OG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM PROJECT 017/0-1993

BOREHOLE No : 1
SHEET : 2 OF 4
REFERENCE No : H8607

PROJECT : TUGUN BYPASS
LOCATION : 547593E, 6885243N
PROJECT No : C60290 SURFACE R.L. : 63.00 DRILLER : Daly Bros Pty Ltd
JOB No : DATUM : AHD DATE DRILLED : 22/9/99

DEPTH (m)	R.L. (m)	MATERIAL DESCRIPTION	USC	WEATHERING	INTACT STRENGTH (EH VH H M L VL)	DEFECT SPACING (mm) (20 60 200 600 2000)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	TESTS
10	53.00	**ARGILLITE & MINOR METAGREYWACKE** (as above)						Is(50)=0.04MPa		x
		(80) 100						some EW bands foliation 55 deg joint 90 deg, irregular, FeSt		
11		HW: pale grey to brown, very low strength.								
								iron staining along foliation		
12		(26) 100								
	50.20							irregular FeSt along discontinuities bedding 58 deg		
13		180 m METAGREYWACKE Brown, fine grained (74) 100	HW							
								jt 48 deg sl. irreg FeSt		
	48.95							Is(50)=0.03MPa		x
14		**METAGREYWACKE** Grey, fine to medium grained metasedimentary rock								
		(48) 100						poorly bedded		
15								FeSt defects jt, 60 deg planar FeSt		
16		HW: brown, very low to low strength								
	46.65	(36) 100						Is(50)=0.32MPa		x
		MW: brown, medium strength	MW					poorly bedded		
17								jt, 80 deg irreg FeSt		
	45.10	(79) 100								
18		HW: brown, very low strength						jt, 85 deg planar, heavily FeSt		
	44.30	**INTERBEDDED ARGILLITE & METAGREYWACKE** Grey, fine to medium grained, foliated metasedimentary rock.	HW					FeSt defects, irreg		
19		(15) 100						some very low strength bands foliation 45 deg, FeSt		
20	43.00									

REMARKS :

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ENGINEERING BORELOG

Main Roads

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/0-1998

BOREHOLE No : 1
SHEET : 3 OF 4
REFERENCE No : H8607

PROJECT : TUGUN BYPASS
LOCATION : 547593E, 6885243N
PROJECT No : C60290 SURFACE R.L. : 63.00 DRILLER : Daly Bros Pty Ltd
JOB No : DATUM : AHD DATE DRILLED : 22/9/99

DEPTH (m)	R.L. (m)	AUGER / CORE DRILLING / CASING / OTHER	RQD ( )% CORE REC%	SAMPLE	MATERIAL DESCRIPTION	USC	WEATHERING	INTACT STRENGTH (EH VH H M L VL)	DEFECT SPACING (mm) (20 60 200 600 2000)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	TESTS
20	43.00				**INTERBEDDED ARGILLITE & METAGREYWACKE** (as above)						jt 85 deg, planar, sl FeSt		
			(25) 100								closely spaced FeSt defects		
21					HW: pale grey and brown, very low to low strength.	HW							
	41.55				**METAGREYWACKE** Grey, fine grained metasedimentary rock HW: Brown, low strength						jt 52 deg, planar, sl FeSt Is(50)=0.08MPa		x
22	40.90		(18) 86										
					MW: brown, low strength.						jt 85 deg, sl irreg FeSt		
23											fragmented along closely spaced FeSt joints jts 35 deg, 60 deg planar FeSt		
	39.20		(17) 93										
24					**INBEDDED ARGILLITE AND METAGREYWACKE,** (as above)						Is(50)=0.23MPa		x
					MW: Brown, low strength.						jt 57 deg, planar FeSt		
25	37.70		(25) 67								~~jt 10 deg, planar FeSt~~		
					METAGREYWACKE (as above)								
26					MW: brown, low strength	MW					Is(50)=0.29MPa		x
			(51) 100										
27											jt, 60 deg, sl irreg FeSt		
											10 - 25mm qtz vein		
28	34.70		(25) 71										
					INTERBEDDED METAGREYWACKE AND ARGILLITE (as above)						bedding 52 deg Is(50)=0.28MPa		x
29					MW: Brown and pale grey, low strength.						core fragmented along FeSt defects.		
			(32) 55										
30	33.00						HW						

REMARKS : Piezometer 28.4 m - 37.1 m

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ENGINEERING BORELOG

Main Roads

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/0-1998

BOREHOLE No : 1
SHEET : 4 OF 4
REFERENCE No : H8607

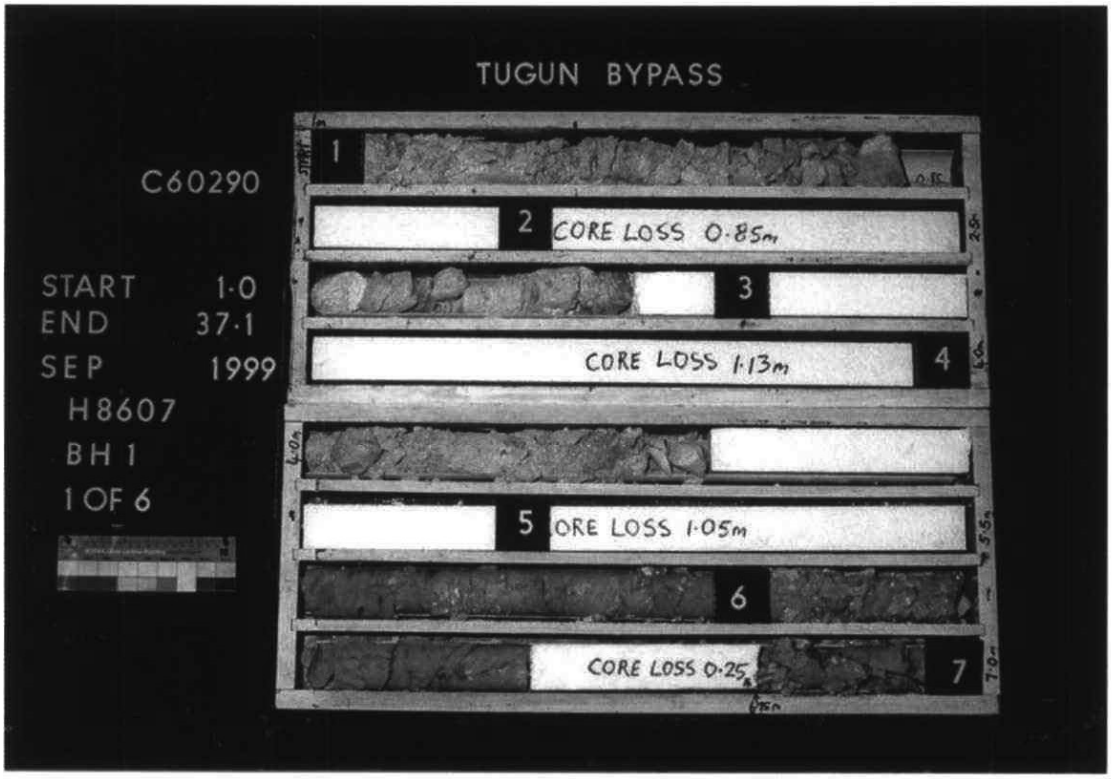
PROJECT : TUGUN BYPASS
LOCATION : 547593E, 6885243N
PROJECT No : C60290 SURFACE R.L. : 63.00 DRILLER : Daly Bros Pty Ltd
JOB No : DATUM : AHD DATE DRILLED : 22/9/99

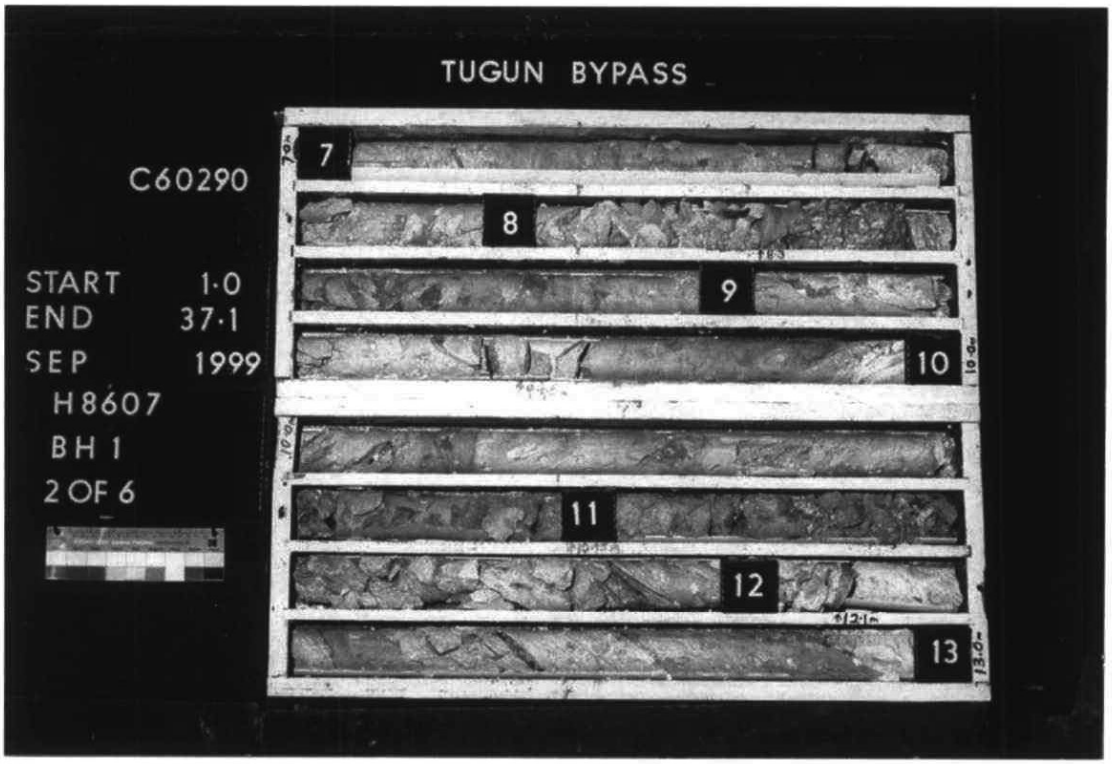
DEPTH (m)	R.L. (m)	AUGER / CORE DRILLING / CASING / OTHER	RQD ( )% CORE REC%	SAMPLE	MATERIAL DESCRIPTION	USC	WEATHERING	INTACT STRENGTH EH VH H M L VL	DEFECT SPACING (mm) 20 60 200 600 2000	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	TESTS
30	33.00				**INTERBEDDED METAGREYWACKE AND ARGILLITE** (as above)						jt 40 deg, planar, FeSt		
31			(0) 26		HW: pale grey & brown, low strength		HW				bedding 40 deg some MW		
32			(0) 40								core fragmented along FeSt defects		
											Is(50)=0.24MPa		x
33	30.00				**METAGREYWACKE** (as above)						jt, 80 deg, planar, FeSt jt, 52 deg, planar, poorly bedded		
34			(81) 100		MW: Brown, medium strength						discontinuities 25 - 30deg FeCem		
											Is(50)=0.50MPa		x
	28.40				**INTERBEDDED METAGREYWACKE AND AGRILLITE** (as above)		MW				some low strength HW bands		
35			(0) 53		MW: pale grey and brown, low - medium strength						jt, 90 eg, planar, FeSt core fragmented.		
36													
37	25.90		(0) 46				HW						
					END OF HOLE								
38													
39													
40													

REMARKS : Piezometer 28.4 m = 37.1 m

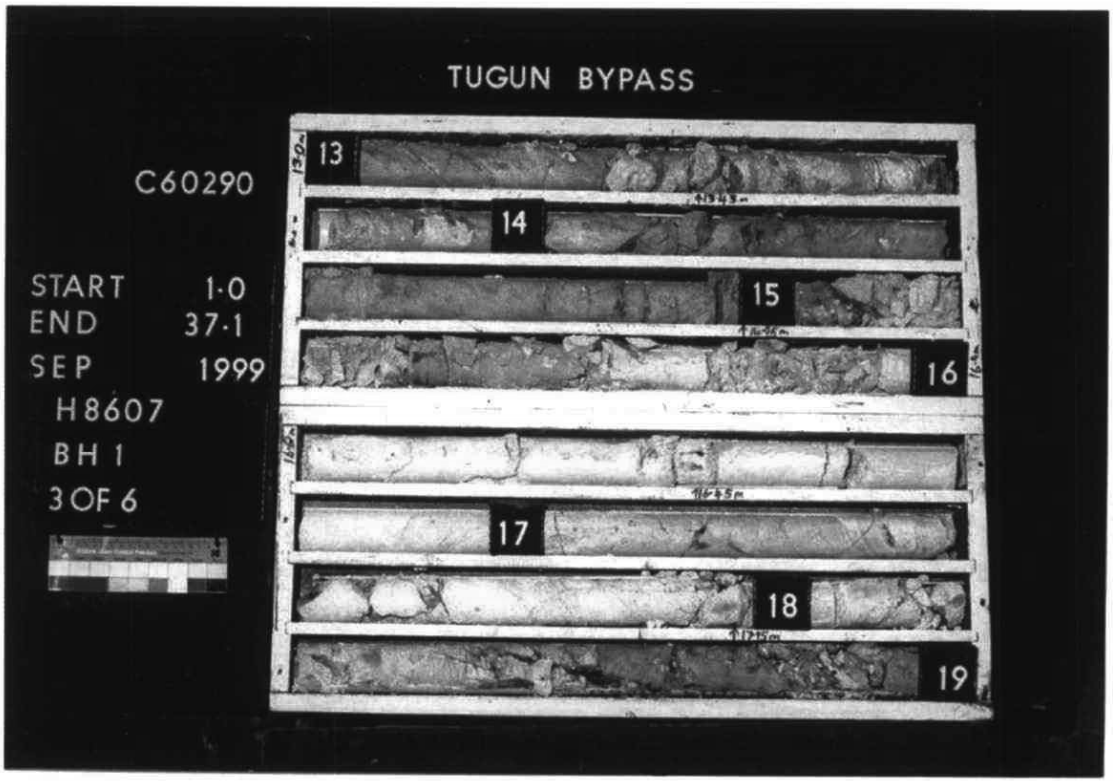
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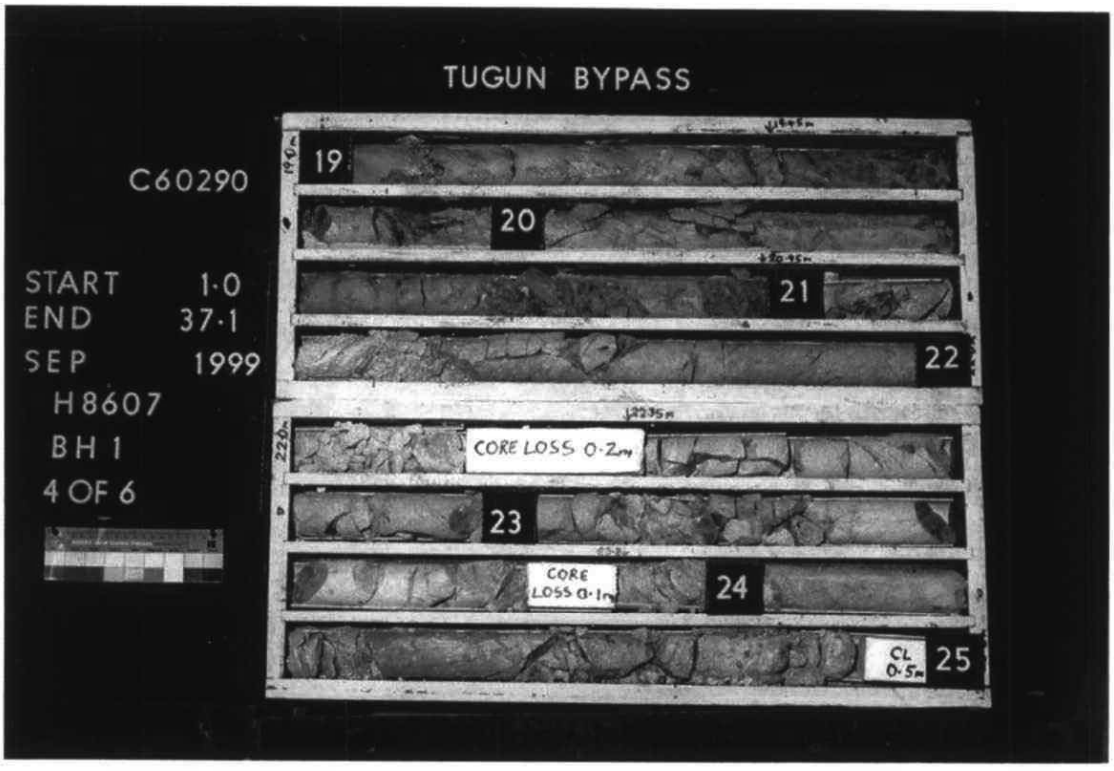
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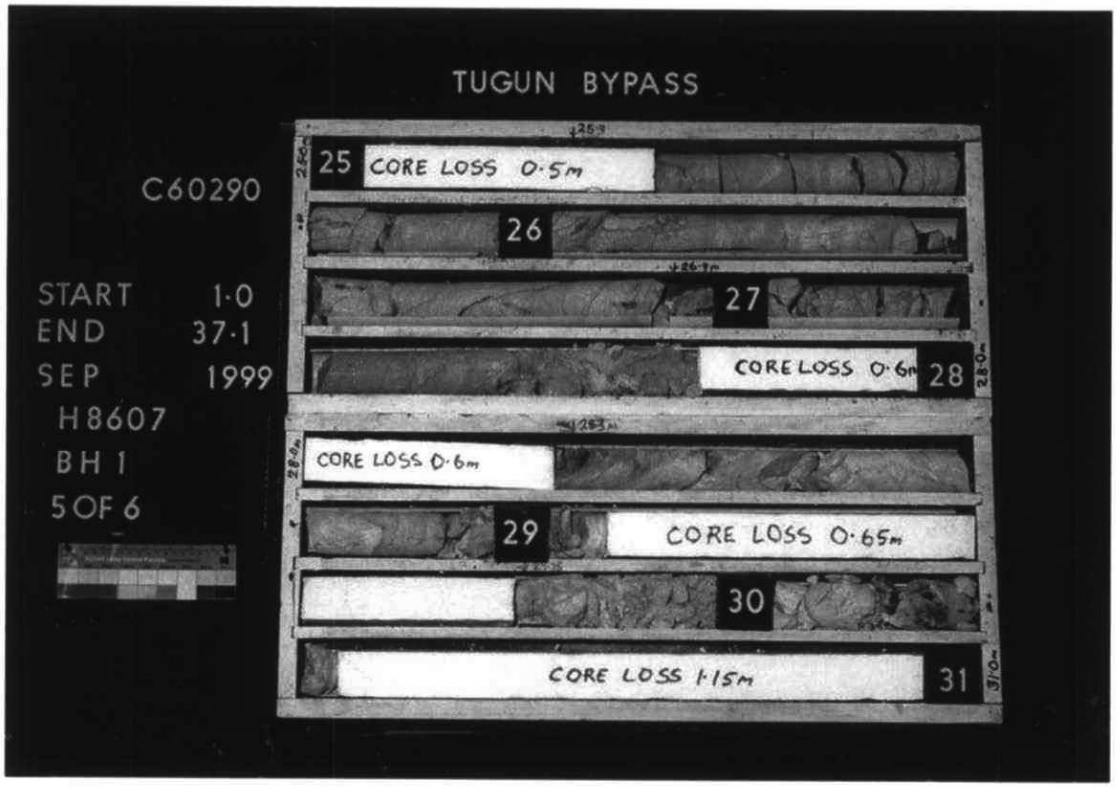


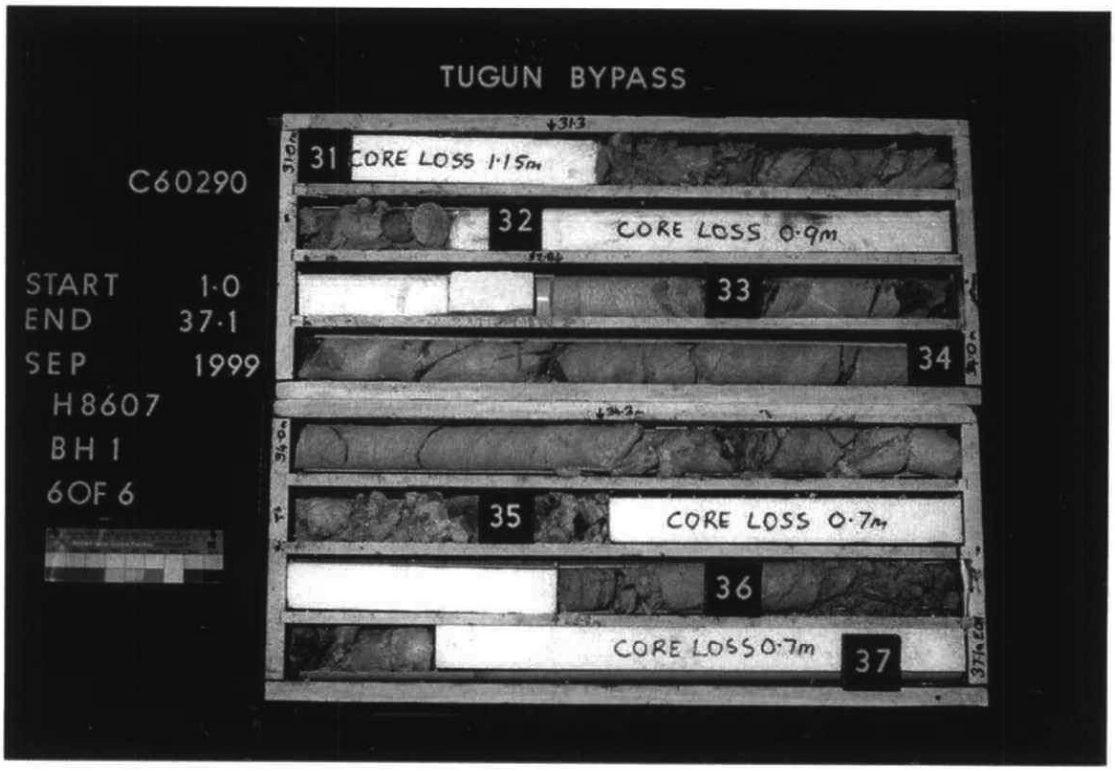
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