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# ENGINEERING BORELOG

FOR GEOTECHNICAL TERMS AND  
SYMBOLS REFER FORM BQF 075:191/95

BOREHOLE No : 228  
SHEET : 1 OF 2  
REFERENCE No : H8166

PROJECT : SOUTH EAST TRANSIT TUNNEL-PACKAGE 2  
LOCATION : 4017.287E 162208.747N  
PROJECT No : C60117 SURFACE R.L. : 21.27 DRILLER : DALY BROTHERS PTY LTD  
JOB No : 650302CN DATUM : AHD DATE DRILLED : 28/11/97

DEPTH (m)	R.L. (m)	AUGER CORE DRILLING CASING OTHER	RQD (%)	CORE REC%	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	21.27											
						FILL Pale brown dry gravels.					Driller's log only	
1	20.27											
	19.77					XW INTERBEDDED ARGILLITE AND GREYWACKE Exhibits engineering properties of grey brown to green grey, moist to dry, hard sandy silty clay.	XW				6,11,15 N=26	SPT
2						HW INTERBEDDED ARGILLITE AND GREYWACKE Frequent corestones and rock kernels	HW				19,25,30/90=>50	SPT
	18.82					MW INTERBEDDED GREYWACKE AND ARGILLITE Orange brown to grey; partly red brown ironstaining; thin (<20mm) frequent XW-HW weathered bands.						
3											Is (50)=0.45MPa	O
			(49)	96							F/D=230/27	
4												
			(55)	100							Broken zone	
5											SW zone	
							MW				F/D=304/43	
											Broken zone	
6												
			(66)	100							Broken zone	
7												
			(95)	100							HW broken zone	
											Is (50)=0.49MPa	O
8	13.32					SW INTERBEDDED ARGILLITE AND GREYWACKE Red brown ironstaining mainly along defects.					F/D=000/20 Broken zone	
9			(78)	100			SW				Is (50)=0.24MPa	X
											Sheared zone	
10	11.27											

REMARKS : Extensive weathering along argillite bands shows differential strength along rockmass. \*See attached list for defect descriptions.

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# ENGINEERING BORELOG

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BOREHOLE No : 228  
SHEET : 2 OF 2  
REFERENCE No : H8166

PROJECT : SOUTH EAST TRANSIT TUNNEL-PACKAGE 2  
LOCATION : 4017.287E 162208.747N  
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DEPTH (m)	R.L. (m)	AUGER CORE DRILLING CASING OTHER	RQD (%) CORE REC%	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING EH VH H M VL	INTACT STRENGTH	DEFECT SPACING (mm) 20 60 200 600 2000	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
10	11.27		(64) 100		SW INTERBEDDED ARGILLITE AND GREYWACKE Red brown ironstaining mainly along defects.					Is (50)=0.27MPa XW broken zone	o
11											
12			(70) 100			SW				F/D=050/23 Broken zone	
13			(76) 100							F/D=237/39; Sheared zone Is (50)=0.47MPa	x
14	7.27		(38) 100								
14					END OF HOLE						
15											
16											
17											
18											
19											
20											

REMARKS : Failure during Point load tests predominantly along foliation plane and/or  
bedding partings. \*Some of the defect data were extracted from BIPS.

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# DEFECT DESCRIPTIONS OF BORELOGS

[FOR GEOTECHNICAL TERMS AND SYMBOLS]

REFER FORM BQF 075:191/95]

BOREHOLE NO : 228

SHEET : 1 of 2

REFERENCE NO : H8166

PROJECT	SOUTH EAST TRANSIT PROJECT - SECTION 2						
LOCATION :	4017.287E	162208.747N					
PROJECT NO :	C60117	SURFACE R.L. :	21.27	DRILLER :	DALY BROTHERS PTY LTD		
JOB NO :	650302CN	DATUM :	AHD	DATE DRILLED :	2/12/97		

DEPTH	DEFECT TYPE	DIP(Degrees)	PLANARITY	ROUGHNESS	APERTURE	WALL ALTERATION	OTHER
2.5	J	35	Ir	R		PFeSt	
2.8		35	Ir			PFeSt	20mm QZ
2.9							QZ
3.14	J	20	Ir	R		PFeSt	
3.47	J	25	Ir	R		T	
3.56	J	58		Sm			Cn
4.05	J	35	Ir	R		PFeSt	
4.65	J			R		CoFeSt	
4.88	J	80	Ir	R			Cn
5.1	J	35	Ir	R			CI
5.23	J	40	Ir	R			In
5.33							QZ
5.39							QZ
5.88	J		Ir				
6.1	J	15	Ir				Cn
6.5	J	22	Ir	R			
6.77	J		Ir			CoFeSt	H
7.48	J	15					CI
7.6	J		Ir				H,Cn
8.26	J	20		Sm			T,Cn
8.55	J	20	Ir			FeST	
9.07	J	20	Ir			CoFeSt	
9.44	J	55				CoFeSt	O,H
9.78	J	50	Ir				Cn

## Abbreviations

ROUGHNESS		WALL ALTERATIONS		TYPE		OTHER	
R	Rough	FeSt	Iron Stained	J	Joint	P	Partly
Sm	Smooth	W	Weathered	B	Bedding	QZ	Quartz Vein
SL	Slickensided			BP	Bedding Parting	Co	Completely
				F	Foliation	In	Incipient
PLANARITY		APERTURE		SZ	Sheared Zone	SI	Sand Infill
Pl	Planar	C	Closed	WS	Weathered Seam	H	Horizontal
St	Stepped	O	Open	CZ	Crushed Zone	V	Vertical
Un	Undulating	F	Filled	SM	Secondary Mineralisation	CI	Clay Infill
Cu	Curved	T	Tight	BZ	Broken Zone	Cn	Clean
Ir	Irregular			HFZ	Highly Fractured Zone		

NOTE: This sheet should be read in conjunction with appropriate Engineering Borelog.

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# DEFECT DESCRIPTIONS OF BORELOGS

[FOR GEOTECHNICAL TERMS AND SYMBOLS]

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BOREHOLE NO :	228
SHEET :	2 OF 2
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PROJECT	SOUTH EAST TRANSIT PROJECT - SECTION 2					
LOCATION :	4017.287E	162208.747N				
PROJECT NO :	C60117	SURFACE R.L :	21.27	DRILLER :	DALY BROTHERS PTY LTD	
JOB NO :	650302CN	DATUM :	AHD	DATE DRILLED :	2/12/97	

DEPTH	DEFECT TYPE	DIP(Degrees)	PLANARITY	ROUGHNESS	APERTURE	WALL ALTERATION	OTHER
10.95	J	25		Sm	T		Cn
11.55	J	25	Ir				
11.84	J	30		Sm	T		Cn
12.25	J		Ir	R		PFeSt	
12.36	J	50		Sm	T		Cn
12.5	J		Ir			FeSt	
12.55							QZ
12.82							QZ
13.08	J	20		Sm			CI
13.23	J	40	Ir				CI
13.36	J	40	Ir			FeSt	
13.4	J	45	Ir			FeSt	
13.65	J	60	Ir			FeSt	
13.7	J	40	Ir			FeSt	
13.83	J	40	Ir			FeSt	
13.85	J	40	Ir			FeSt	
13.87	J	40	Ir			FeSt	
13.91	J	40	Ir			FeSt	

## Abbreviations

ROUGHNESS		WALL ALTERATIONS		TYPE		OTHER	
R	Rough	FeSt	Iron Stained	J	Joint	P	Partly
Sm	Smooth	W	Weathered	B	Bedding	QZ	Quartz Vein
SL	Slickensided			BP	Bedding Parting	Co	Completely
				F	Foliation	In	Incipient
PLANARITY		APERTURE		SZ	Sheared Zone	SI	Sand Infil
Pl	Planar	C	Closed	WS	Weathered Seam	H	Horizontal
St	Stepped	O	Open	CZ	Crushed Zone	V	Vertical
Un	Undulating	F	Filled	SM	Secondary	CI	Clay Infil
Cu	Curved	T	Tight	BZ	Broken Zone	Cn	Clean
Ir	Irregular			HFZ	Highly Fractured Zone		

**NOTE:** This sheet should be read in conjunction with appropriate Engineering Borelog.



BUS TRANSIT TUNNEL - PACKAGE TWO

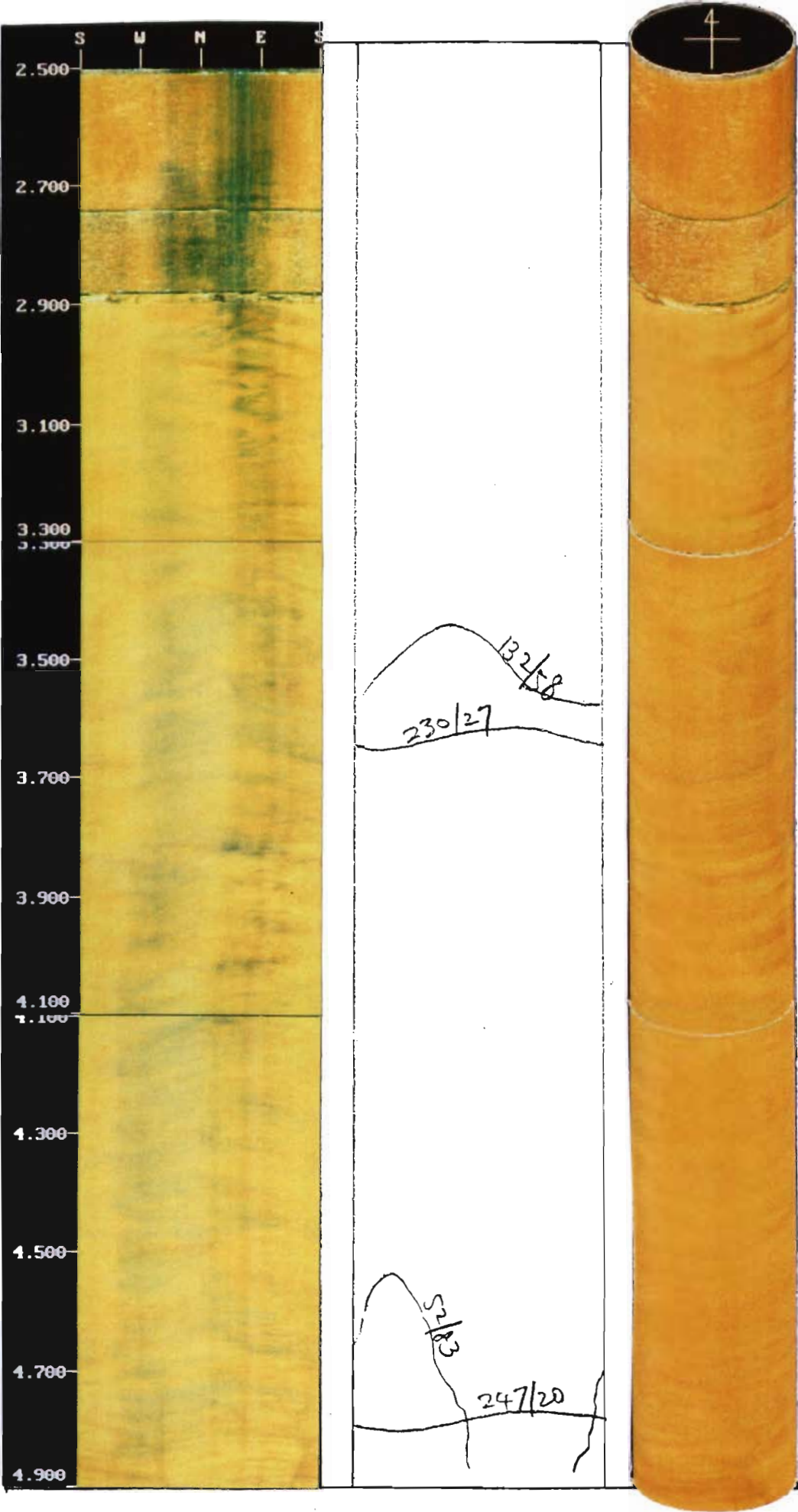
HOLE 228  
START 2.40  
END 14.00

H 8166  
3 OF 3  
NOV 1997

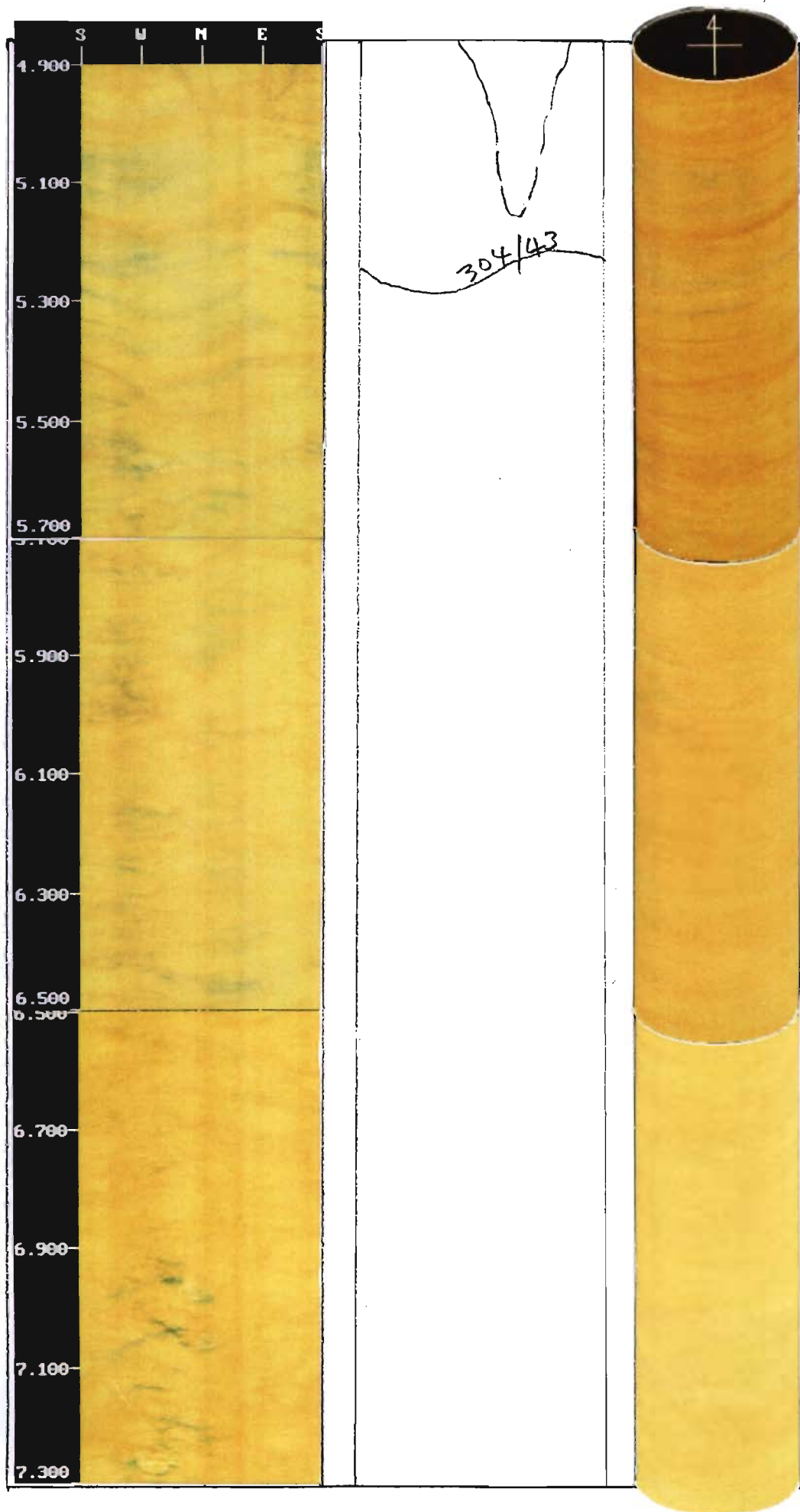
C60117



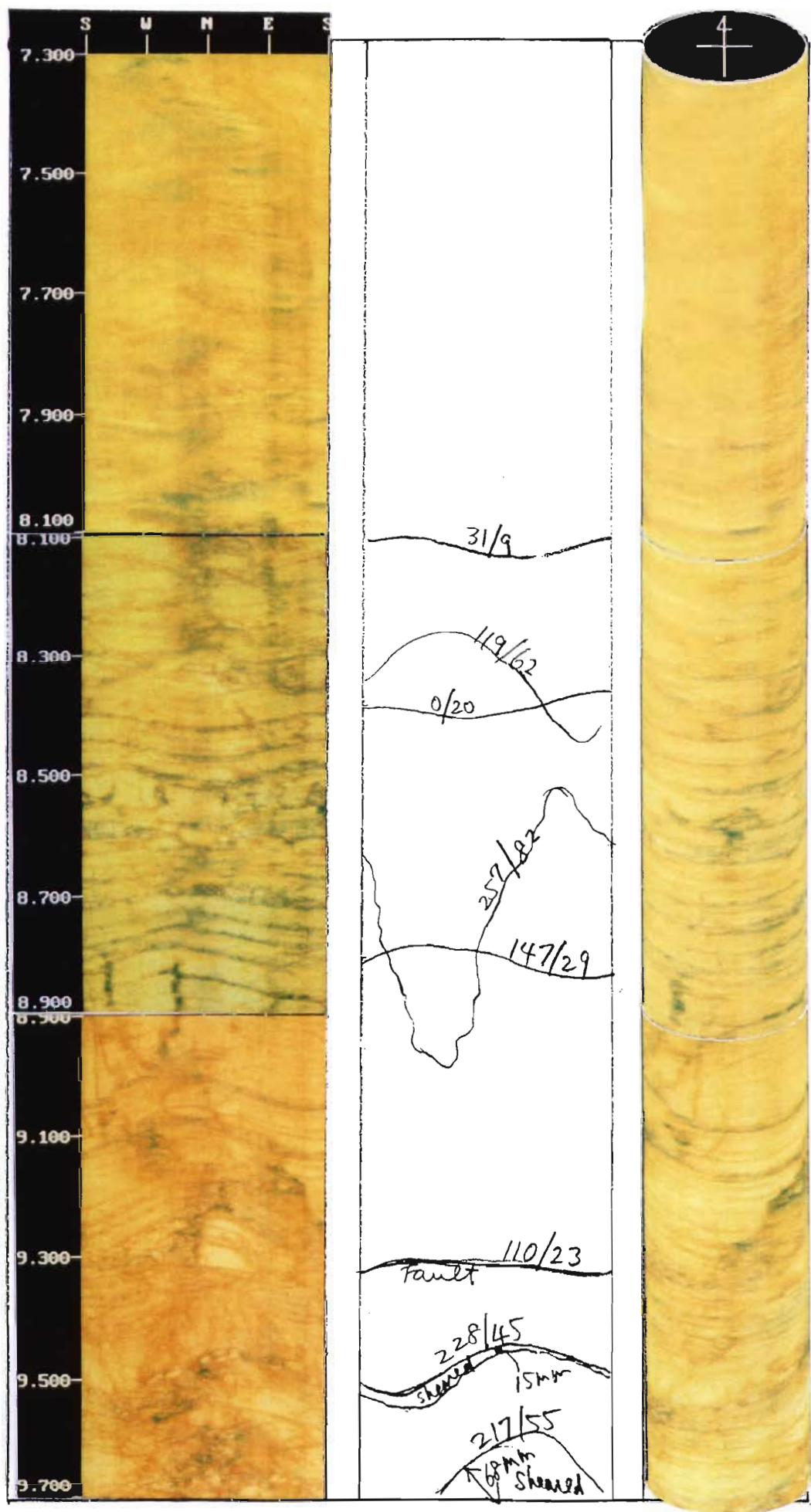
SOUTH EAST TRANSIT PROJECT  
BH 228 2.50 - 4.90 M



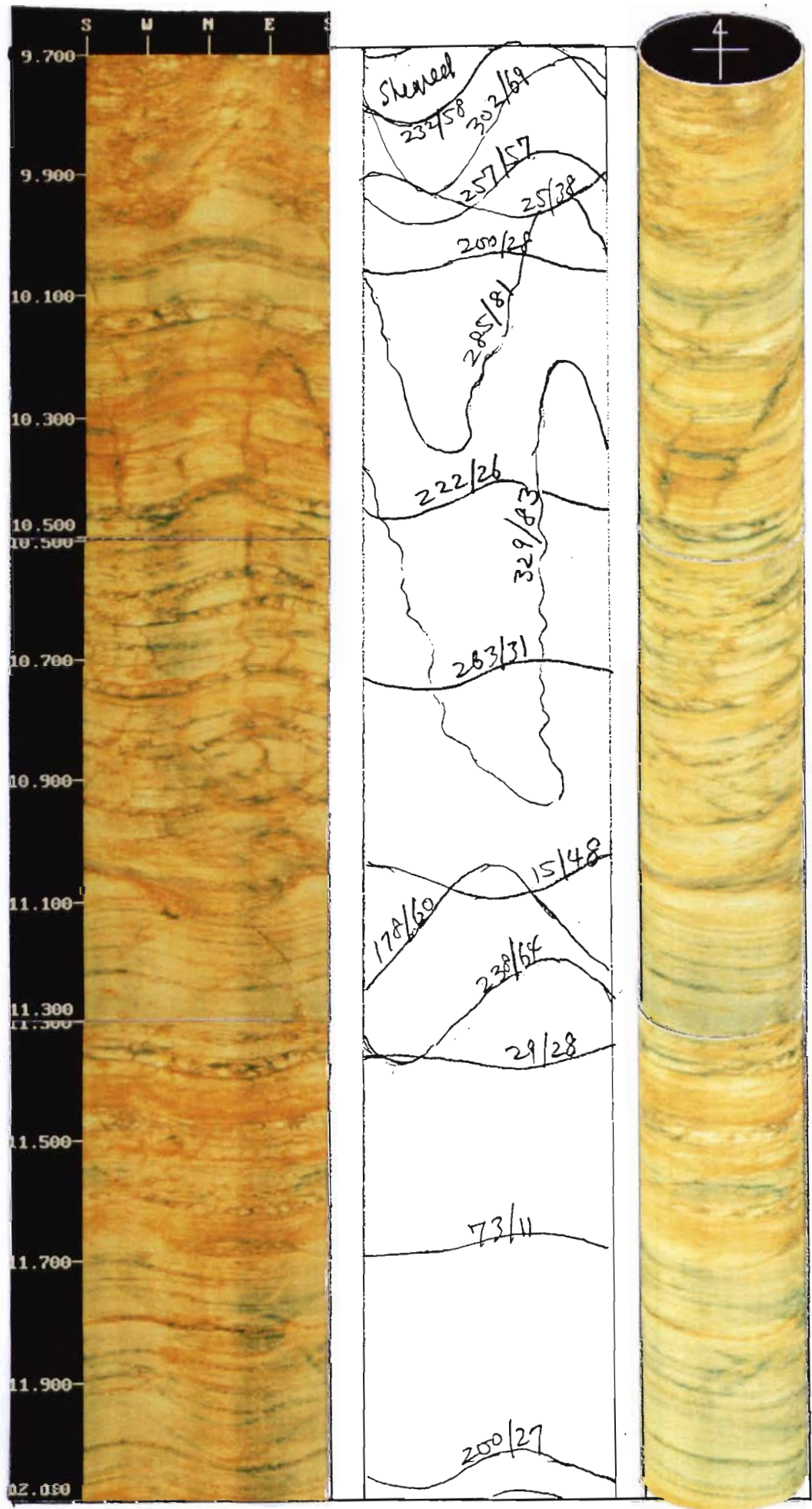
SOUTH EAST TRANSIT PROJECT  
BH 228 4.90 - 7.30 M



SOUTH EAST TRANSIT PROJECT  
BH 228 7.30 - 9.70 M



SOUTH EAST TRANSIT PROJECT  
BH 228 9.70 - 12.10 M



# **SOUTH EAST TRANSIT PROJECT** **BH 228 12.10 - 14.20 M**

