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# ENGINEERING BORELOG

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

BOREHOLE No : 211  
SHEET : 1 OF 2  
REFERENCE No : H8156

PROJECT : SOUTH EAST TRANSIT BUS LANE PROJECT - SECTION 2  
LOCATION : 3501.1E 163120.6N  
PROJECT No : C60117 SURFACE R.L. : 26.75 DRILLER : DALY BROTHERS PTY LTD  
JOB No : 650302CN DATUM : AHD DATE DRILLED : 5/12/97

DEPTH (m)	R.L. (m)	AUGER CORE DRILLING Casing OTHER	RQD (%) CORE REC%	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH EH VH I M V	DEFECT SPACING (mm) 20 50 100 200 500 1000 2000	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	26.75				<b>SILTY CLAY</b> Brown, moist, silty clay.	CH				Drillers log only	
1	26.25				<b>PHYLLITE</b> GREY TO SILKLY GREEN, FINE TO MEDIUM GRAINED FOLIATED METASEDIMENTARY ROCK. BOTH DARK (MICA) & WHITE (QUARTZ) INTERLAYERS; QUARTZ VEINS (BOTH CONCORD- ANT AND DISCORDANT); BEDDING CONTORTED, IRREGULAR, 50-70 AND HORIZONTAL (<10) DEGREES. HW : Frequent core stones and rock kernels.	HW				30/110 N=>50	
2			38							F/D=041/65	
3	23.89		(15) 86		<b>MW PHYLLITE</b> Occasional argillite interlayers; frequent quartz veins (both concordant and discordant) and HW zones.					F/D=064/54	
4			(15) 65								
5			(24) 100			MW					
6			(39) 100							F/D=080/54	
7			(17) 88								
8			(15) 93			HW				Is(50)=0.09MPa	x
9	17.60		(34) 100			MW				6.0-14.0m: WPT <1 Lugeons	
10			(41) 100		<b>PHYLLITE AND ARGILLITE</b> Green grey to dark blue; highly fractu- red zone (Probable transition zone).	MW				BROKEN ZONE F/D=090/29	
			(21) 100								

REMARKS : \*See the attached list for defect descriptions.

LOGGED BY  
DISS

# ENGINEERING BORELOG

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

BOREHOLE No : 211  
SHEET : 2 OF 2  
REFERENCE No : H8156

PROJECT : SOUTH EAST TRANSIT BUS LANE PROJECT - SECTION 2  
LOCATION : 3501.1E 163120.6N  
PROJECT No : C60117 SURFACE R.L. : 26.75 DRILLER : DALY BROTHERS PTY LTD  
JOB No : 650302CN DATUM : AHD DATE DRILLED : 5/12/97

DEPTH (m)	R.L. (m)	AUGER CORE DRILLING CORE CASING OTHER	RQD (%) CORE REC%	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH EH VH H M VL	DEFECT SPACING (mm) 20 60 200 600 2000	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
10	16.75				PHYLLITE AND ARGILLITE: as above..	MW				BROKEN ZONE	
	16.52										
	16.23		(17) 87		ARGILLITE GREY TO BLUE GREY FINE TO MEDIUM GRAINED BEDDED METASEDIMENTARY ROCK. BEDDING 75 DEGREES TO IRREGULAR. ROCK TENDS TO BREAK ALONG BEDDING PARTINGS. DEFECTS 45-60 AND <20 DEGREES.					5/12/97 Is (50) = 0.10MPa	x
11			(61) 100			SW					
12			(67) 100							Is (50) = 0.63MPa 10.0-14.0m: WPT <1 Lugeons F/D=079/55	x
13			(35) 100			MW				Is (50) = 0.72MPa	x
										BROKEN ZONE F/D=086/56	
14	12.65		(49) 100			SW				Is (50) = 0.49MPa	x
					END OF HOLE						
15											
16											
17											
18											
19											
20											

REMARKS :

LOGGED BY  
DISS



## [FOR GEOTECHNICAL TERMS AND SYMBOLS]

BOREHOLE NO :	211
SHEET :	1 of 1
REFERENCE NO :	H8156

PROJECT SOUTH EAST TRANSIT PROJECT - SECTION 2

LOCATION	:	3501.072E	163107.572N
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PROJECT NO :	C60117	SURFACE R.L :	26.83	DRILLER :	DALY BROTHERS P/L
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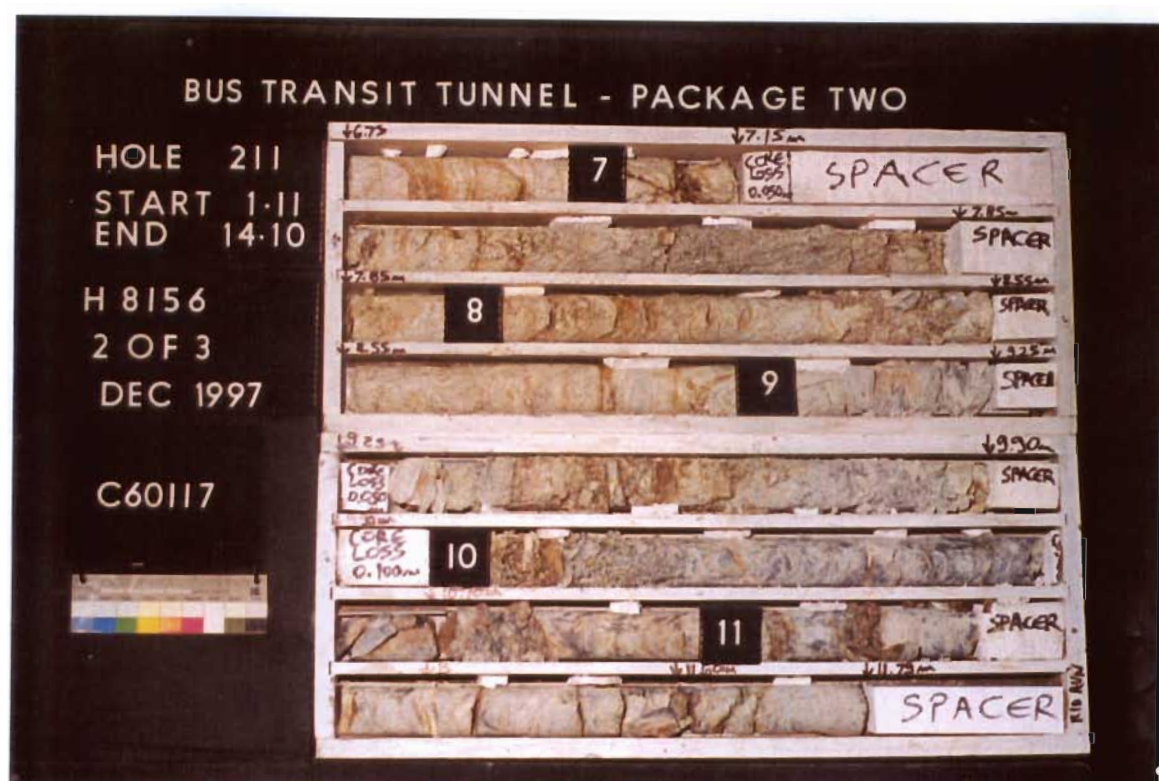
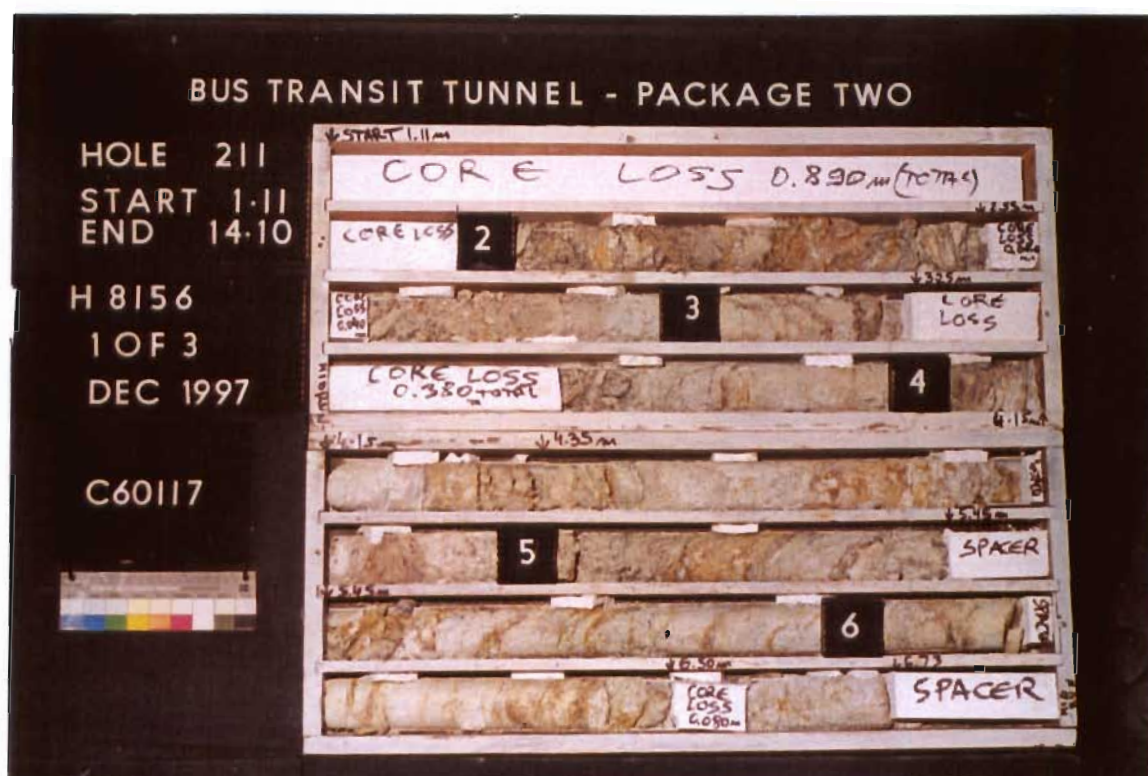
JOB NO : 650302CN      DATUM : AHD      DATE DRILLED : 8/12/97

[illegible]

## **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.



BUS TRANSIT TUNNEL - PACKAGE TWO

HOLE 211  
START 1.11  
END 14.10

H 8156  
3 OF 3  
DEC 1997

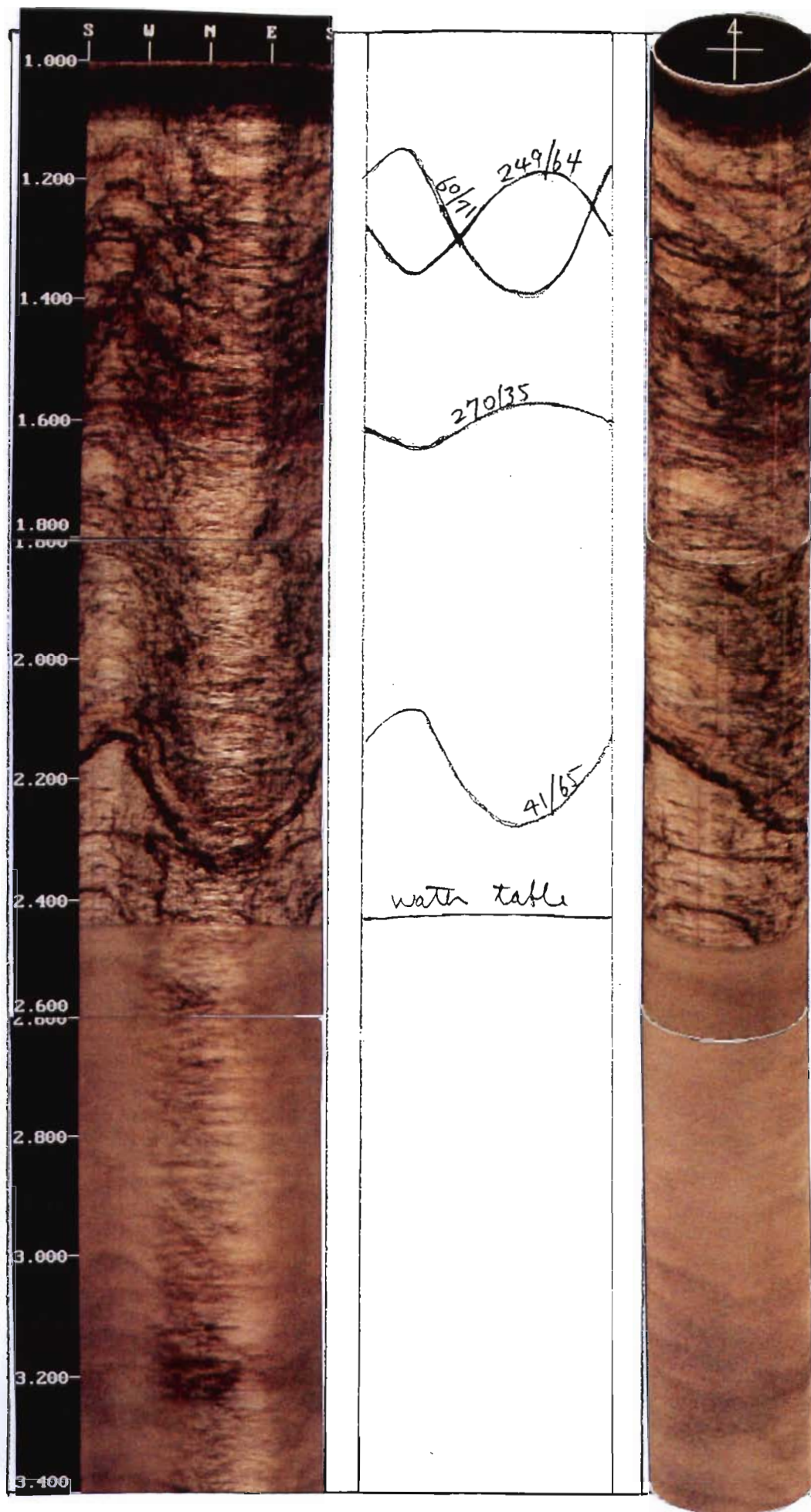
C60117





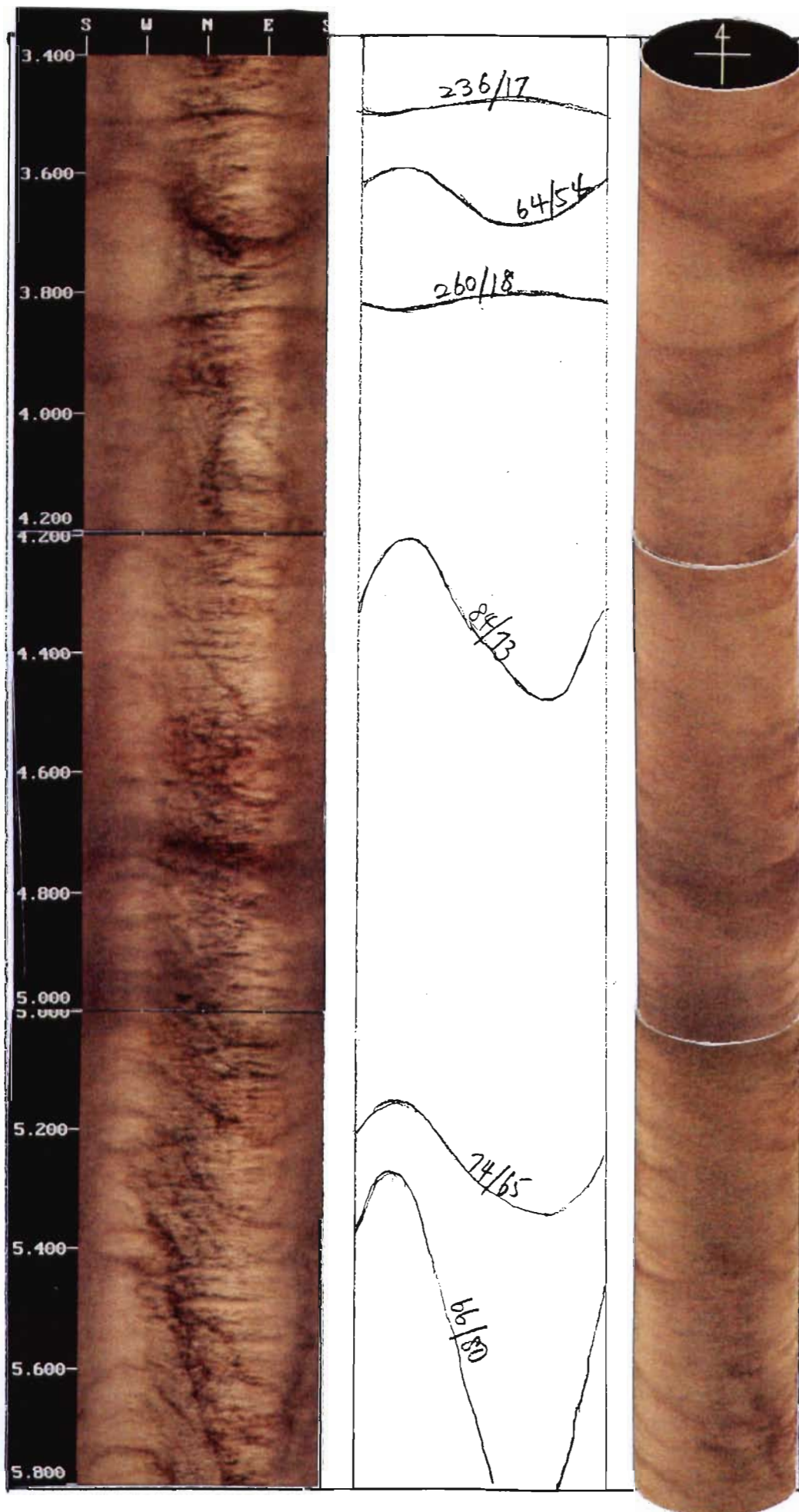
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BH 211 1.00 - 3.40 M



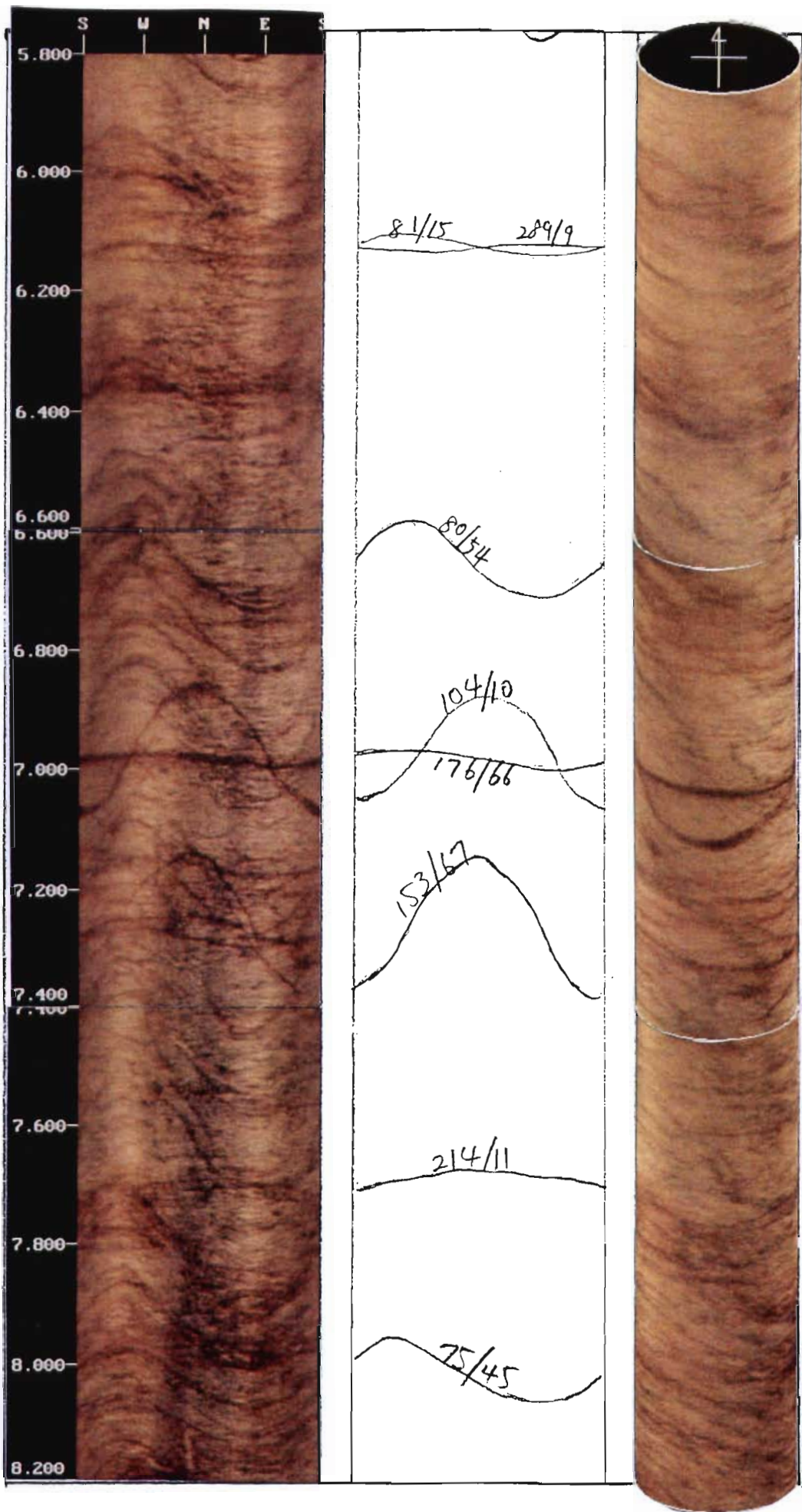
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BH 211 3.40 - 5.80 M

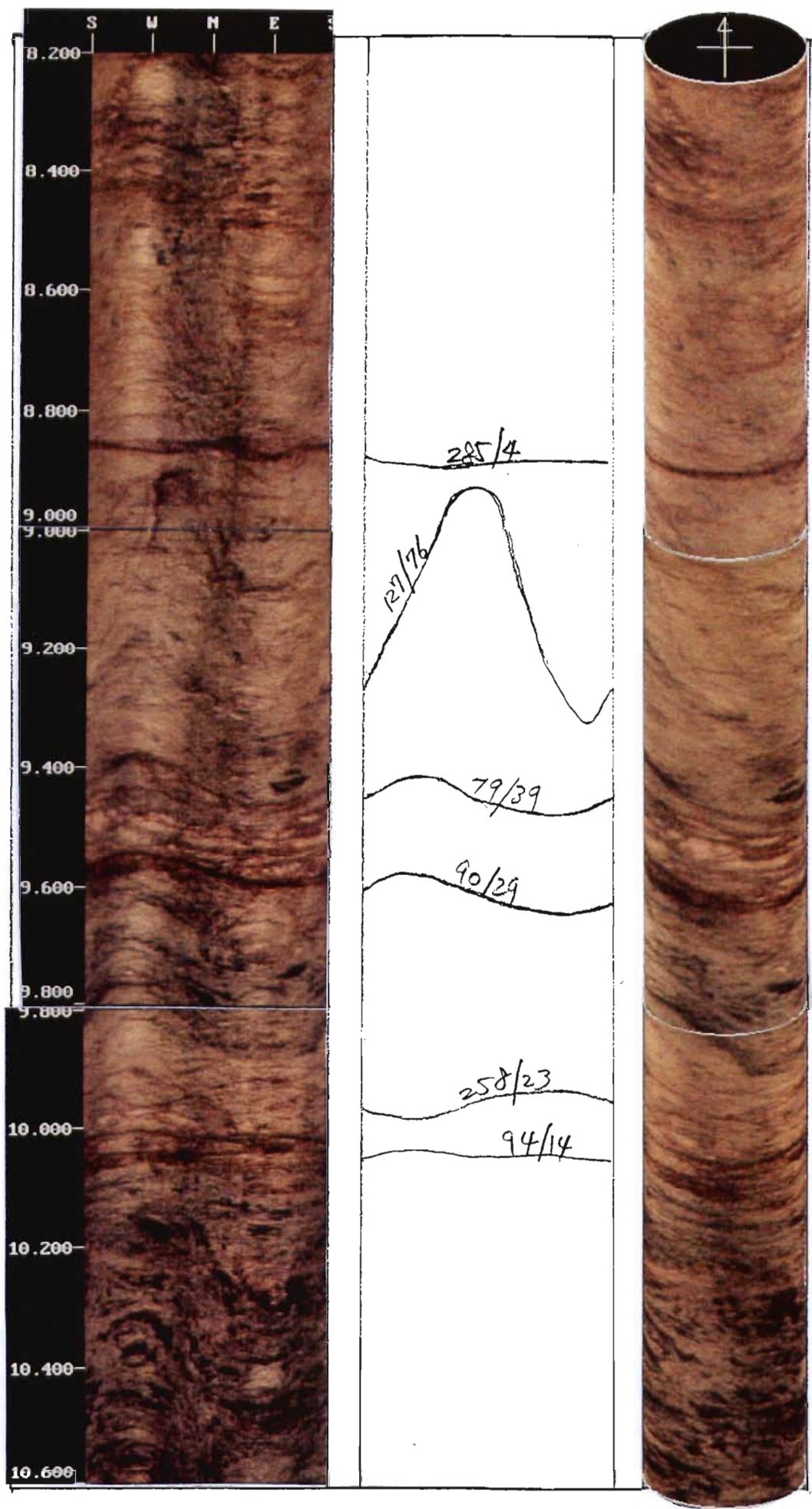




SOUTH EAST TRANSIT PROJECT  
BH 211 5.80 - 8.20 M

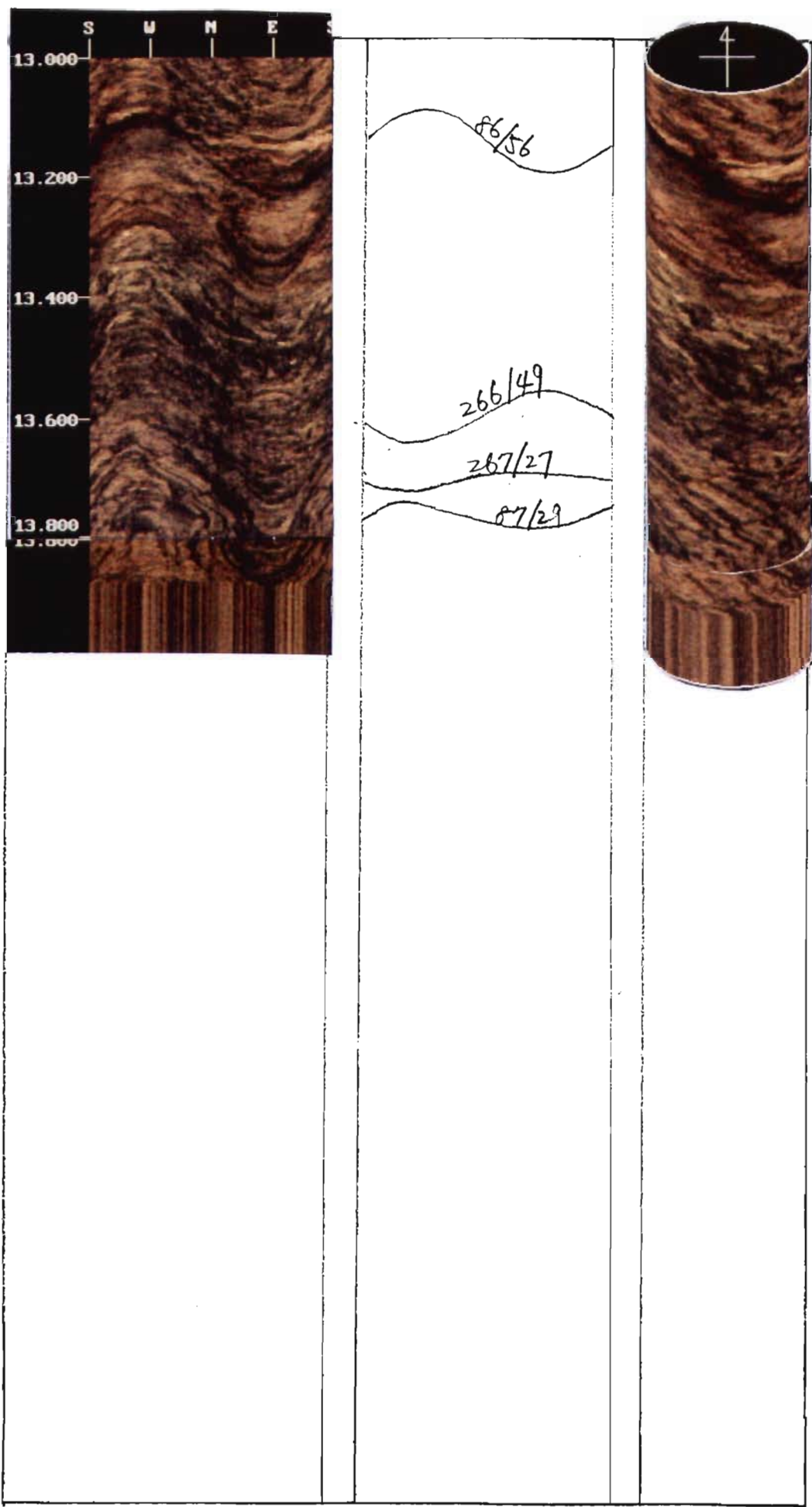


SOUTH EAST TRANSIT PROJECT  
BH 211 8.20 - 10.60 M





SOUTH EAST TRANSIT PROJECT  
BH 211 13.00 - 13.85 M



**SOUTH EAST TRANSIT PROJECT, SECTION 2**

**WATER PRESSURE TEST RESULTS**

**<1  
LUGEONS**

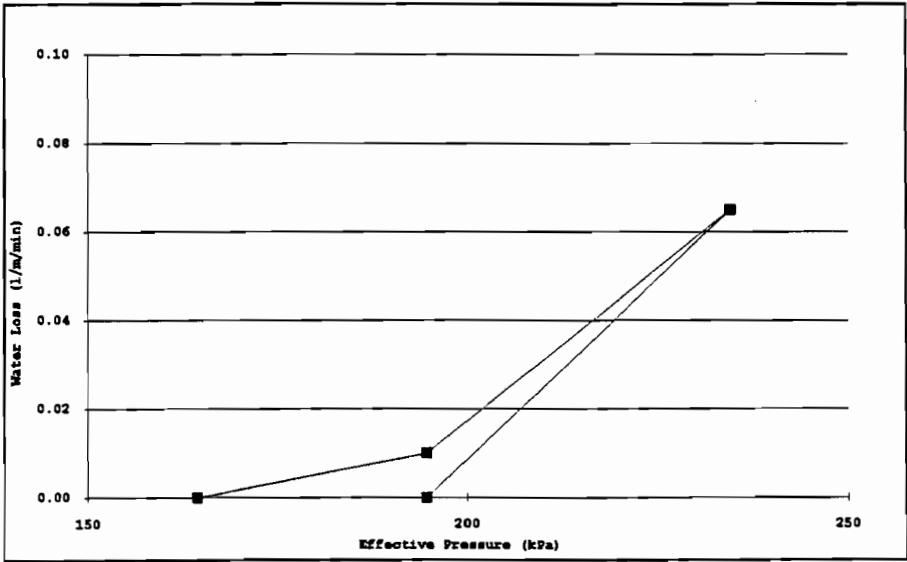
Drill Hole: 211  
Test No: 1

Date: 8/12/97

Test Section: From (m) 10 To (m) 14 Length (m) 4

-Groundwater Depth (m): 10.52  
Gauge Height (m): 0.95  
Hydrostatic Head (kPa): 114.7

Gauge Pressure (kPa)	Effective Pressure (kPa)	Test Duration (min)	Meter Start (litres)	Meter End (litres)	Water Loss (litres)	Leakage (l/m/min)	Lugeons
50	164.7	5	50	50	0	0.00	0.00
80	194.7	5	50.1	50.1	0	0.00	0.00
120	234.7	5	50.2	51.5	1.3	0.06	0.28
80	194.7	5	54.2	54.4	0.2	0.01	0.05
50	164.7	5	54.9	54.9	0	0.00	0.00





**SOUTH EAST TRANSIT PROJECT, SECTION 2**

**WATER PRESSURE TEST RESULTS**

**<1  
LUGEONS**

Drill Hole: 211  
Test No: 2

Date: 8/12/97

Test Section: From (m) 6 To (m) 14 Length (m) 8

Groundwater Depth (m): 10.52  
Gauge Height (m): 1.41  
Hydrostatic Head (kPa): 114.1

Gauge Pressure (kPa)	Effective Pressure (kPa)	Test Duration (min)	Meter Start (litres)	Meter End (litres)	Water Loss (litres)	Leakage (l/m/min)	Lugeons
25	139.1	5	30.1	30.9	0.8	0.02	0.14
45	159.1	5	32.5	34.6	2.1	0.05	0.33
65	179.1	5	38.7	41.3	2.6	0.06	0.36
45	159.1	5	46.6	46.6	0	0.00	0.00
25	139.1	5	46.7	46.7	0	0.00	0.00

