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ENGINEERING BORELOG

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

BOREHOLE No : 202

SHEET : 1 OF 2

REFERENCE No : H8147

PROJECT : SOUTH EAST TRANSIT PROJECT-SECTION 2
 LOCATION : 3219.545E 163438.958N
 PROJECT No : C60117 SURFACE R.L. : 22.58 DRILLER : DALY BROTHERS PTY LTD
 JOB No : 650302CN DATUM : AHD DATE DRILLED : 2/12/97

DEPTH (m)	R.L. (m)	AUGER CORE DRILLING CASING OTHER	RQD (%) CORE REC%	SAMPLE	MATERIAL DESCRIPTION	INTACT STRENGTH WEATHERING				DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
						USC	EH	VH	H				
0	22.58												
1			(0) 100		PHYLLITE: YELLOW BROWN TO DARK GREY FINE TO MEDIUM GRAINED FOLIATED METASEDIMETARY ROCK. BEDDING 10-70 DEGREES AND IRREGULAR TO CONTORTED; ALTERNATIVE DARK (MICA) & LIGHT (QUARTZ) LAYERS. FREQUENT CONCORDANT AND DISCORDANT QUARTZ VEINS.	HW					Driller's log only		
			(0) 50								Broken zone F/D=035/28	26,30/50 N=>50	SPT
2	20.68				MW: Partly or completely red brown ironstaining throughout.						Coarse grained quartz vein		
			(0) 89		Rock tends to break along bedding partings during handling.						Coarse grained quartz vein		
3			(66) 100		DEFECTS -70 degrees, -30 to 40 degrees, -40 degrees (cross cutting)	MW					Broken zone		
			(33) 92								Coarse grained quartz vein		
4	18.58				SW: Red-brown ironstaining only along defects.							Is (50)=0.23MPa	x
5			(72) 100								Broken zone F/D=164/43	5.76	UCS
6			(50) 100										
7	15.98					SW					8/1/98	Is (50)=0.11MPa	x
			(62) 100								F/D=310/43	5.23	UCS
8											Broken zone	Is (50)=0.24MPa	x
			(90) 100								Coarse grained quartz vein	Is (50)=0.23MPa	x
9												Is (50)=0.35MPa	x
10	12.58												
											F/D=099/47		

REMARKS : Rock failed predominantly along foliation planes during Point Load Test resulting lower strength values.

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ENGINEERING BORELOG

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

BOREHOLE No : 202
SHEET : 2 OF 2
REFERENCE No : H8147

PROJECT : SOUTH EAST TRANSIT PROJECT-SECTION 2
LOCATION : 3219.545E 163438.958N
PROJECT No : C60117 SURFACE R.L. : 22.58 DRILLER : DALY BROTHERS PTY LTD
JOB No : 650302CN DATUM : AHD DATE DRILLED : 2/12/97

DEPTH (m)	R.L. (m)	ALGER CORE DRILLING CASING OTHER	RQD (%) CORE REC%	SAMPLE	MATERIAL DESCRIPTION	INTACT STRENGTH					DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS	
						USC	WEATHERING	EH	VH	HM					VL
10	12.58		(63)		SW: As above	SW									
	12.28		100		END OF HOLE										
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															

REMARKS : *See attached sheet for defect descriptions.
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 :	202
SHEET :	1 of 1
REFERENCE NO :	H8147

PROJECT	SOUTH EAST TRANSIT PROJECT - SECTION 2		
LOCATION :	3219.545E	163438.958N	
PROJECT NO :	C60117	SURFACE R.L. :	22.59
JOB NO :	650302CN	DATUM :	AHD
		DRILLER :	DALY BROTHERS PTY LTD
		DATE DRILLED :	2/12/97

DEPTH	DEFECT TYPE	DIP(Degrees)	PLANARITY	ROUGHNESS	APERTURE	WALL ALTERATION	OTHER
2.47	J	20	Ir	R			
2.6	J	20	Ir	R			
2.8	J	69		R			
3.08	J	60	Ir	R			
3.5	J	70 & 10	Ir				
3.6	J	42					
3.86	J	45	Ir	R			
3.99	J	35	Ir	R			
4.02	J		Ir	R			
5.2	J	45	Ir				
5.75	J	60		R			
5.98	J	75		Sm			
6.06	J	80					Sm
6.61	J	43	Ir				
7.15	J	25		Sm			
8.05	J	35	Ir			CoFeSt	
9.36		20	Ir				QZ
9.4	J	10	Ir			PFeSt	CI
9.47	J	10	Ir	R		CoFeSt	
10.1	J	10	Ir				

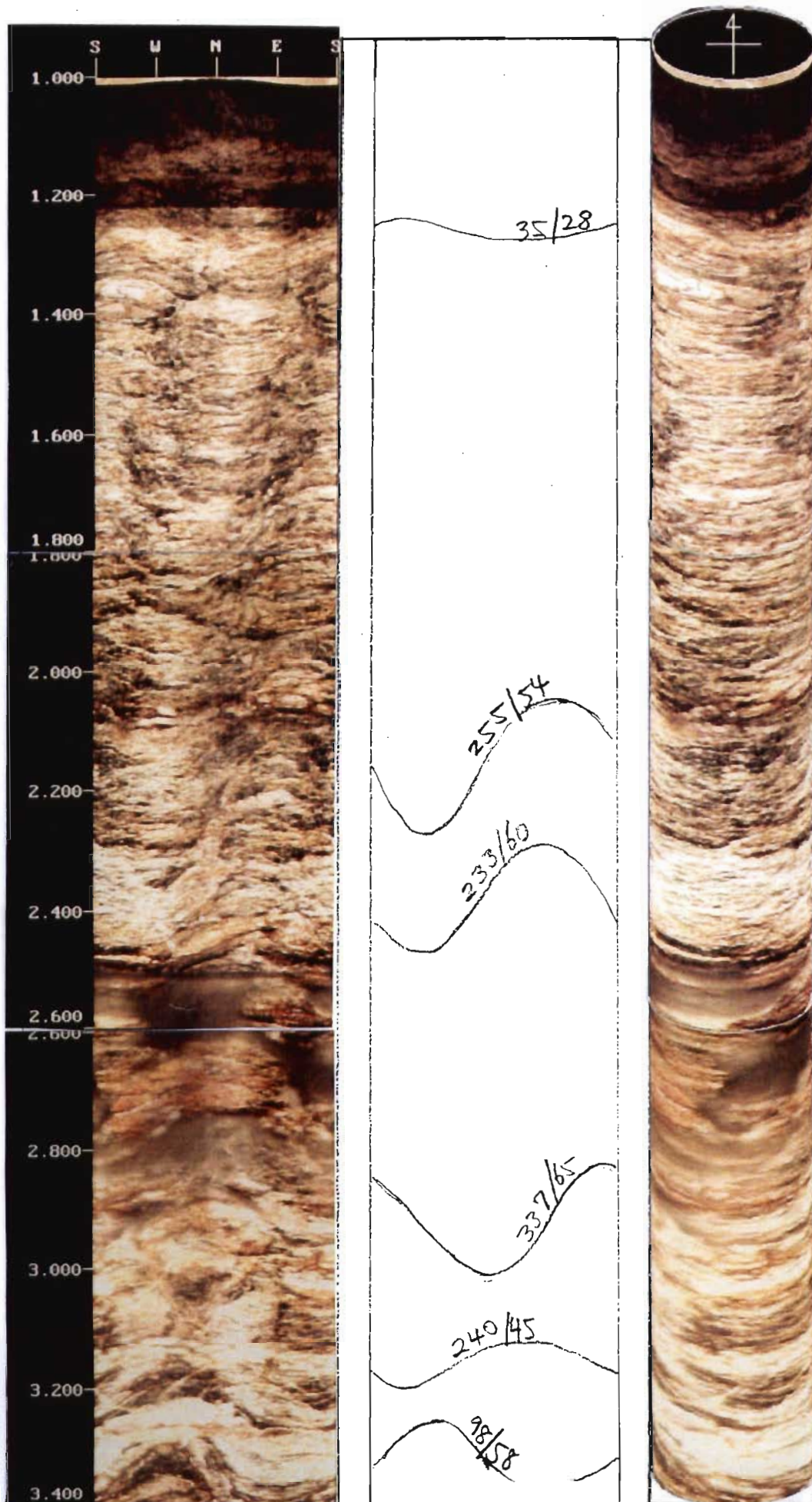
Abbreviations

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 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.

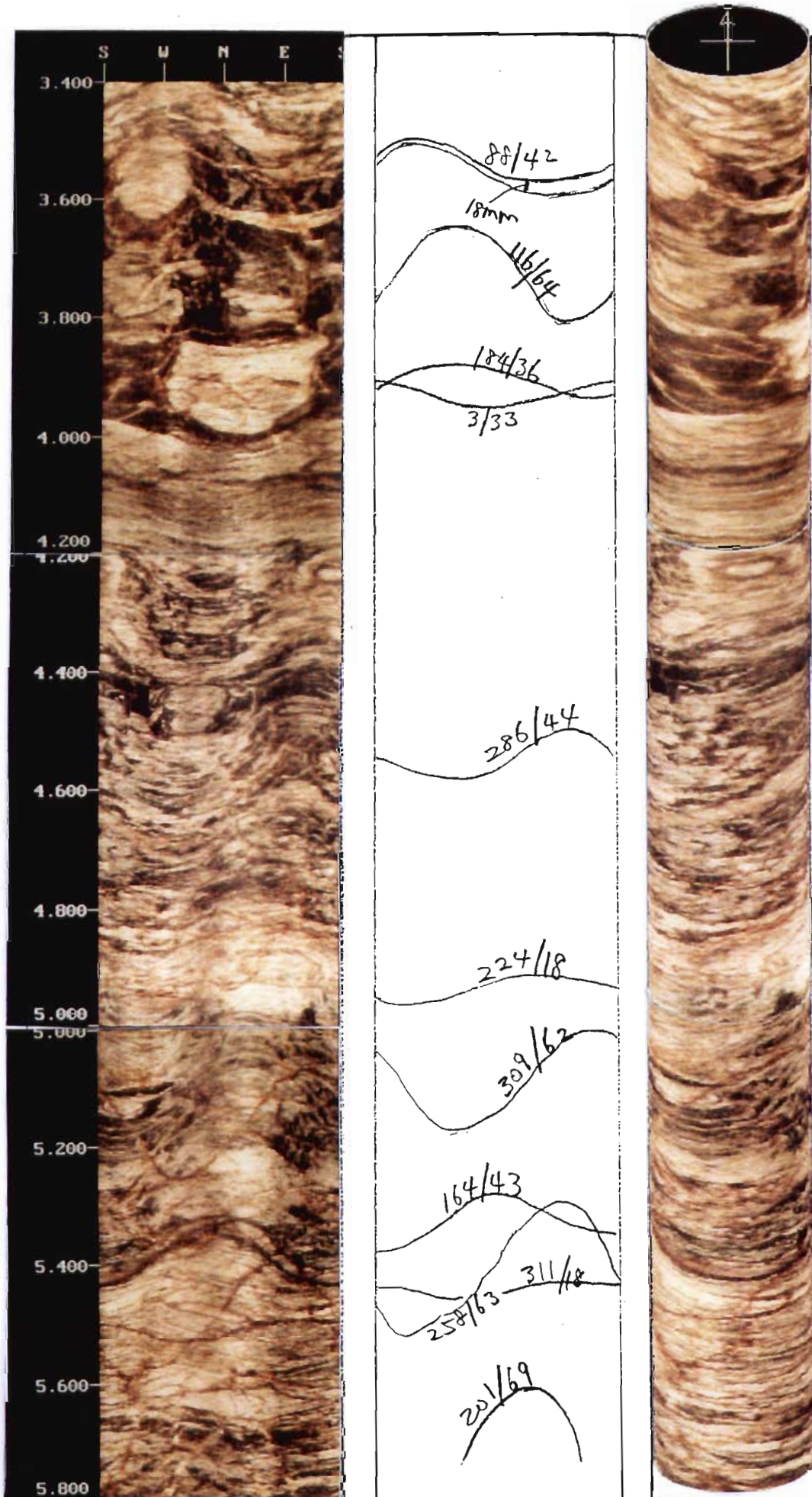
SOUTH EAST TRANSIT PROJECT

BH 202 1.00 - 3.40 M



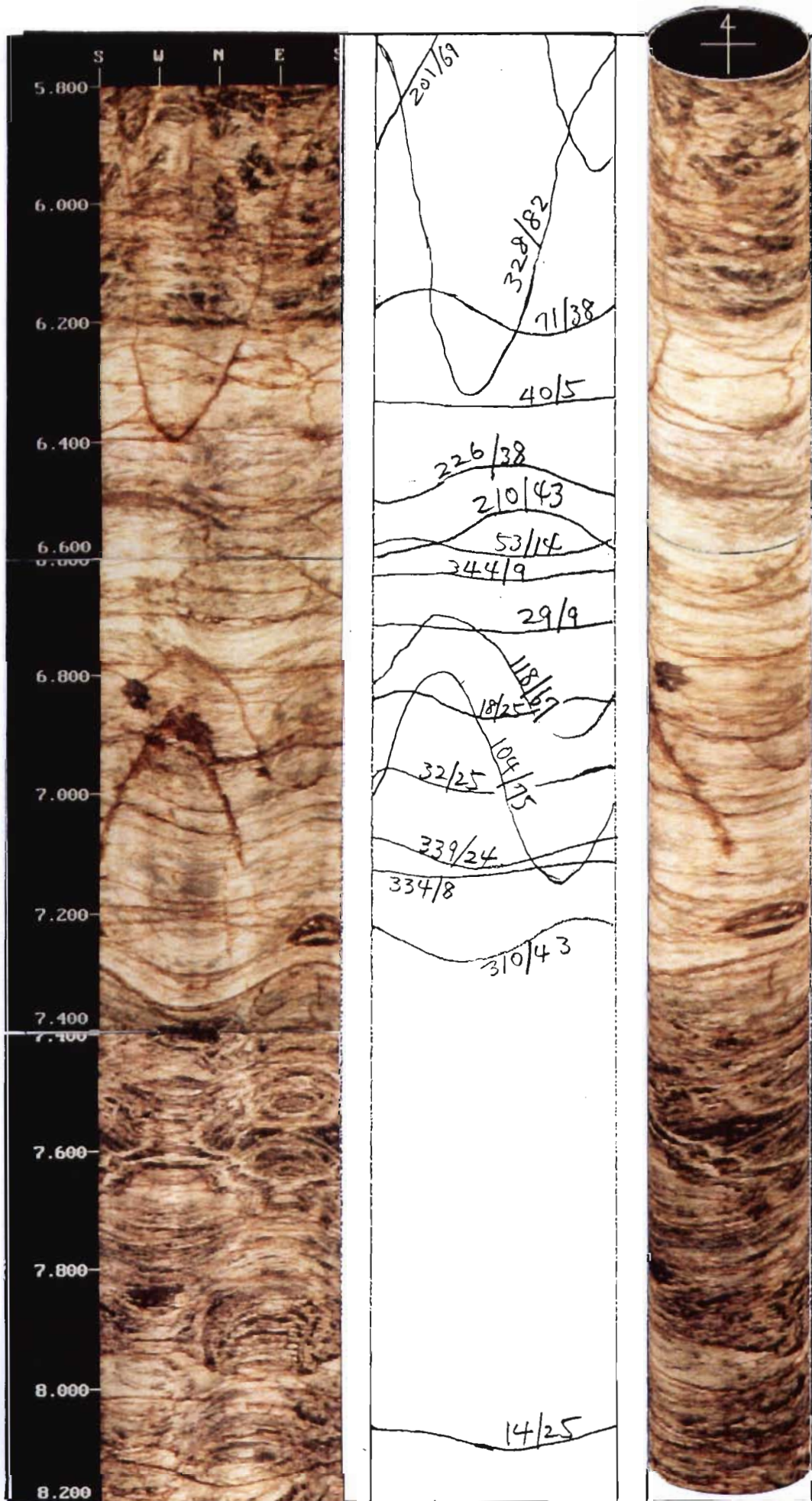
SOUTH EAST TRANSIT PROJECT

BH 202 3.40 - 5.80 M



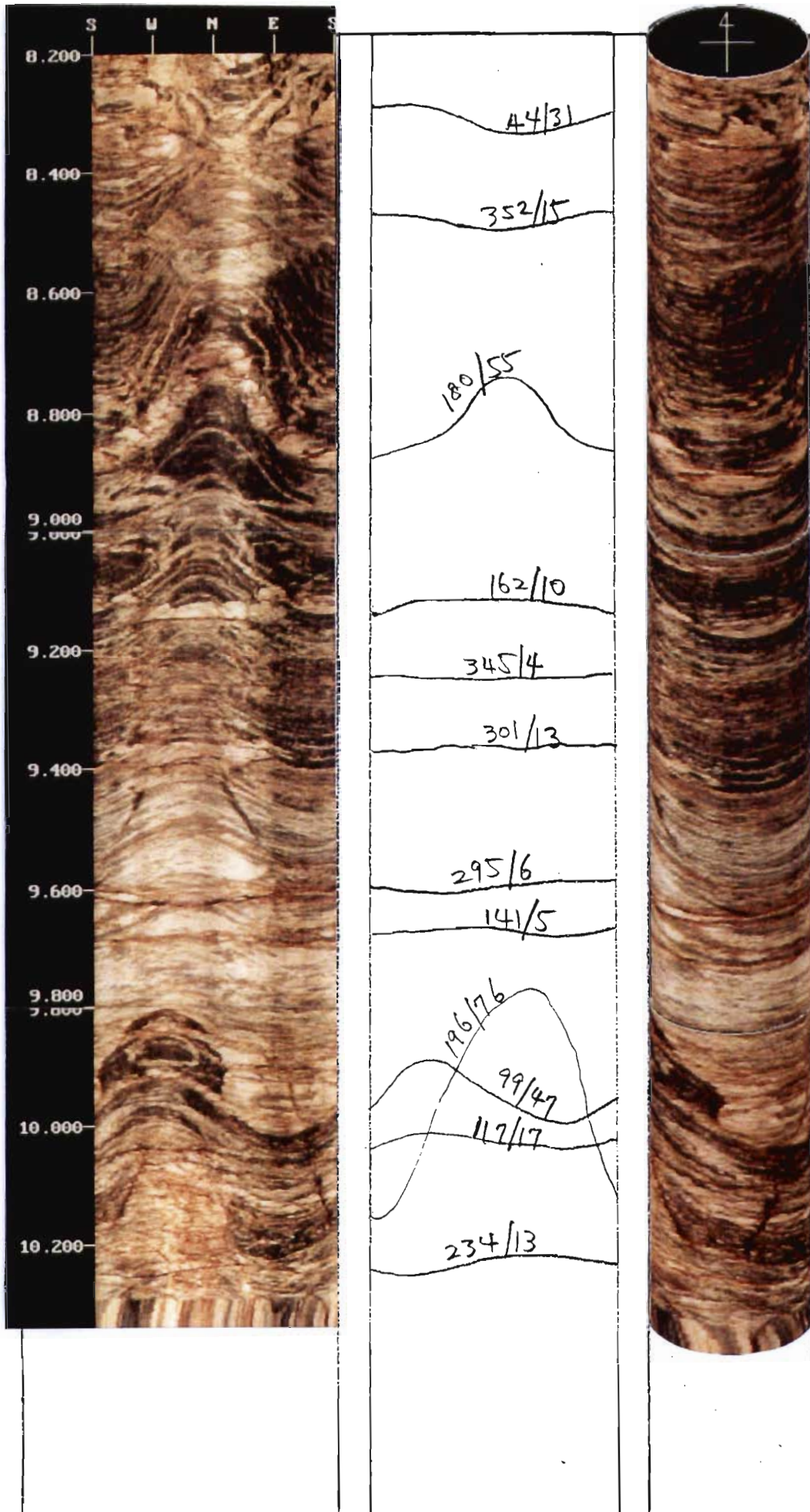
SOUTH EAST TRANSIT PROJECT

BH 202 5.80 - 8.20 M



SOUTH EAST TRANSIT PROJECT

BH 202 8.20 - 10.30 M



SOUTH EAST TRANSIT PROJECT, SECTION 2

WATER PRESSURE TEST RESULTS

2 LUGEONS

Drill Hole: 202
Test No: 1

Date: 2/12/97

	From (m)	To (m)	Length (m)
Test Section:	5	10.3	5.3

Groundwater Depth (m): 6.6
Gauge Height (m): 1.53
Hydrostatic Head (kPa): 81.3

Gauge Pressure (kPa)	Effective Pressure (kPa)	Test Duration (min)	Meter Start (litres)	Meter End (litres)	Water Loss (litres)	Leakage (l/m/min)	Lugeons
50	131.3	5	85	89.3	4.3	0.16	1.24
120	201.3	5	97.8	106.8	9	0.34	1.69
180	261.3	5	124.9	140.4	15.5	0.58	2.24

