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ENGINEERING BORELOG

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

BOREHOLE No : 234
 SHEET : 1 OF 2
 REFERENCE No : H8172

PROJECT : SOUTH EAST TRANSIT PROJECT - SECTION 2
 LOCATION : 4145.2E 162007.1N
 PROJECT No : C60117 SURFACE R.L. : 14.85 DRILLER : DALY BROTHERS PTY LTD
 JOB No : 650302CN DATUM : AHD DATE DRILLED : 28/11/97

DEPTH (m)	R.L. (m)	AUGER DRILLING CORE DRILLING CASING OTHER	RQD (%) CORE REC%	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	14.85			SUBBASE Pale brown gravelly silty clay.					Driller's log only	
14.25										
1	13.48			XW TUFF XW: exhibits engineering properties of pale green, moist to dry, hard sandy silty clay; medium plasticity. isolated mottled zones; some gravel particles.	XW				10,20,30/70=>50	SPT
2			(0) 100	HW TUFF Brown, corestones and rock kernels throughout.						
3	11.83		(20) 75						Is(50)=0.07MPa Sheared zone; F/D = 017/27 28/11/97	x
4			(95) 97		HW				Is(50)=0.05MPa	x
5			(25) 97						16.30MPa	UCS
6									Is(50)=0.03MPa	x
7	7.95			MW TUFF Orange brown; completely red-brown iron-staining.						
8			(91) 100						4.95MPa Is(50)=0.07MPa	UCS x
9	6.35		(67) 100		MW				Is(50)=0.60MPa Is(50)=0.36MPa	x x
10										

REMARKS : *See attached list for defect descriptions.
 Some of the defect data were extracted from BIPS.

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 DISS



ENGINEERING BORELOG

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

BOREHOLE No : 234
SHEET : 2 OF 2
REFERENCE No : H8172

PROJECT : SOUTH EAST TRANSIT PROJECT - SECTION 2
LOCATION : 4145.2E 162007.1N
PROJECT No : C60117 SURFACE R.L. : 14.85 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	WEATHERING						DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS	
						USC	EH	VH	H	M	L					20
10	4.85				MW TUFF as above	MW										
11	4.15		(88) 100		SW TUFF Pale green, massive, prophyritic texture	SW								Is(50) = 1.41MPa	x	
12	2.35		(100) 100											Is(50) = 1.14MPa	x	
13					END OF HOLE											
14																
15																
16																
17																
18																
19																
20																

REMARKS :

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DEFECT DESCRIPTIONS OF BORELOGS

[FOR GEOTECHNICAL TERMS AND SYMBOLS

REFER FORM BQF 075:191/95]

BOREHOLE NO :	234
SHEET :	1 of 1
REFERENCE NO :	H8172

PROJECT	SOUTH EAST TRANSIT PROJECT - SECTION 2		
LOCATION :	4155.205E	162007.144N	
PROJECT NO :	C60117	SURFACE R.L. :	14.75
JOB NO :	650302CN	DATUM :	AHD
		DRILLER :	DALY BROTHERS PTY LTD
		DATE DRILLED :	28/11/97

DEPTH	DEFECT TYPE	DIP(Degrees)	PLANARITY	ROUGHNESS	APERTURE	WALL ALTERATION	OTHER
8.25	J	15	Ir	R		CoFeSt	
8.39		15			T	CoFeSt	
8.42	J	15	Ir	R		CoFeSt	
8.72		15	Ir			CoFeSt	
8.95		20	Ir				Cn
9.7	J		Ir			CoFeSt	H
9.85			Ir		T	CoFeSt	H
10.15			Ir			CoFeSt	
10.21		15		R		CoFeSt	
10.28	J	15		R		CoFeSt	

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
				SZ	Sheared Zone	SI	Sand Infil
PI	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 234
START 1:37
END 12:50

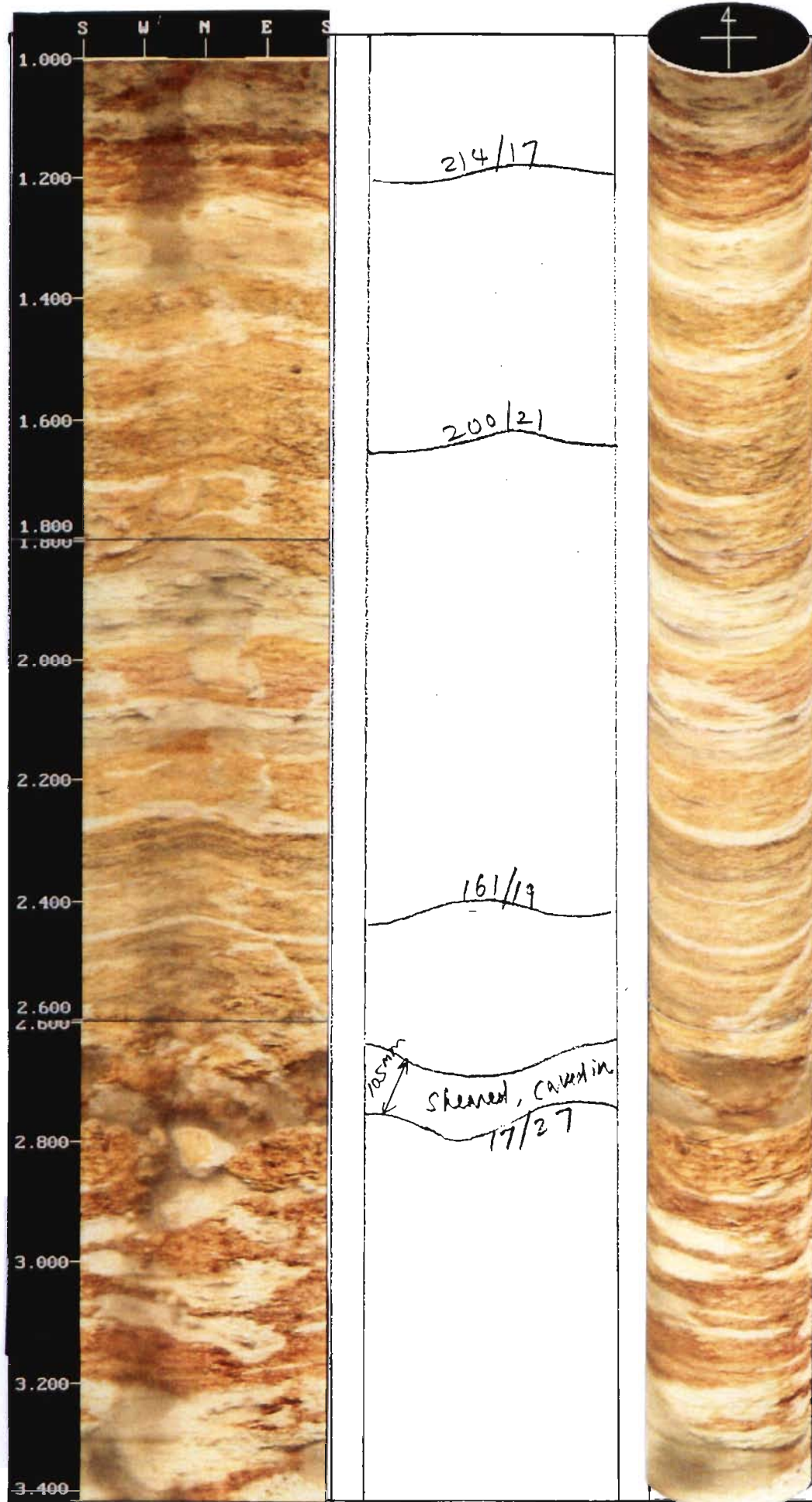
H 8172
3 OF 3
NOV 1997

C60117

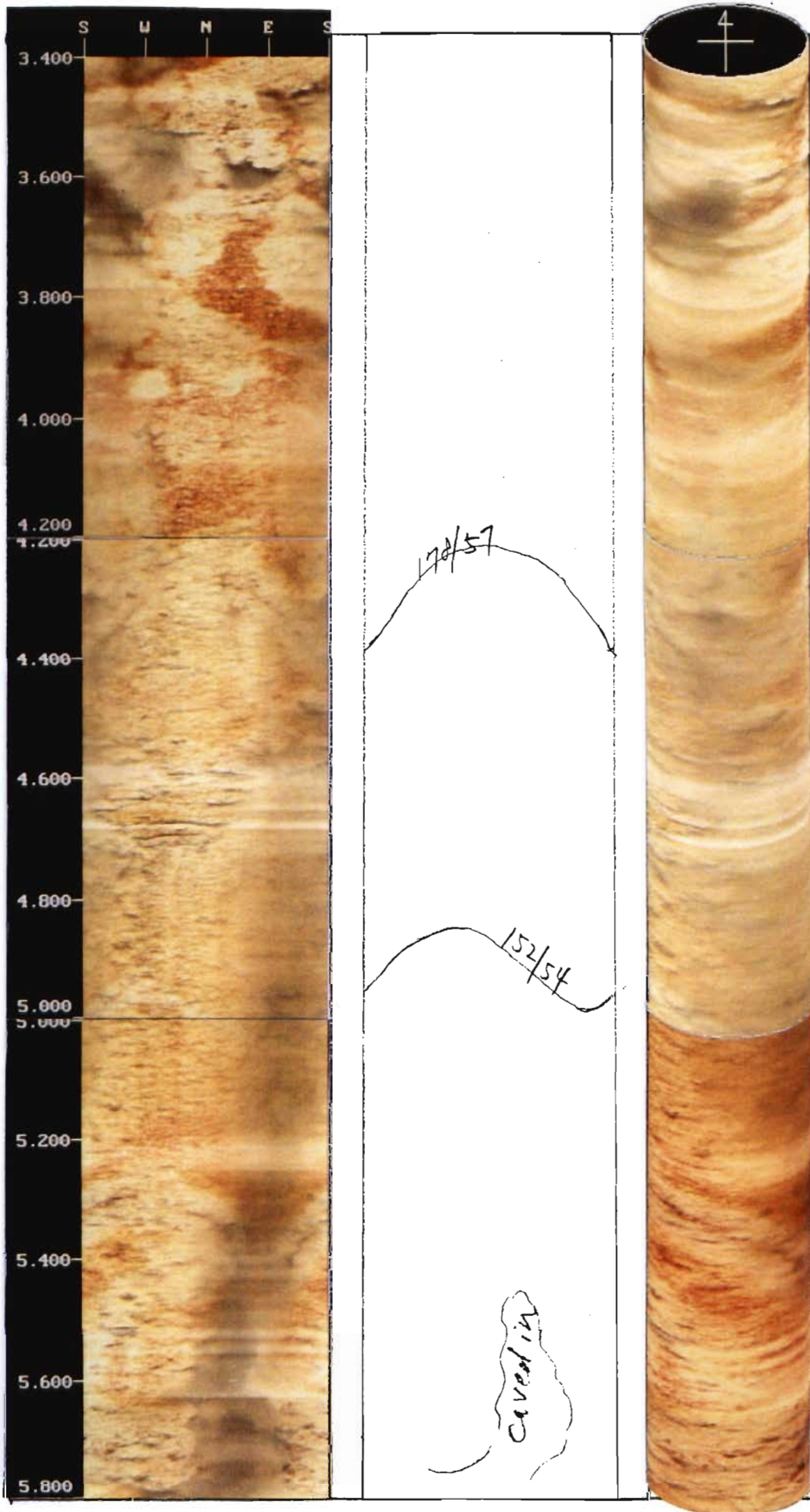


SOUTH EAST TRANSIT PROJECT

BH 234 1.00 - 3.40 M

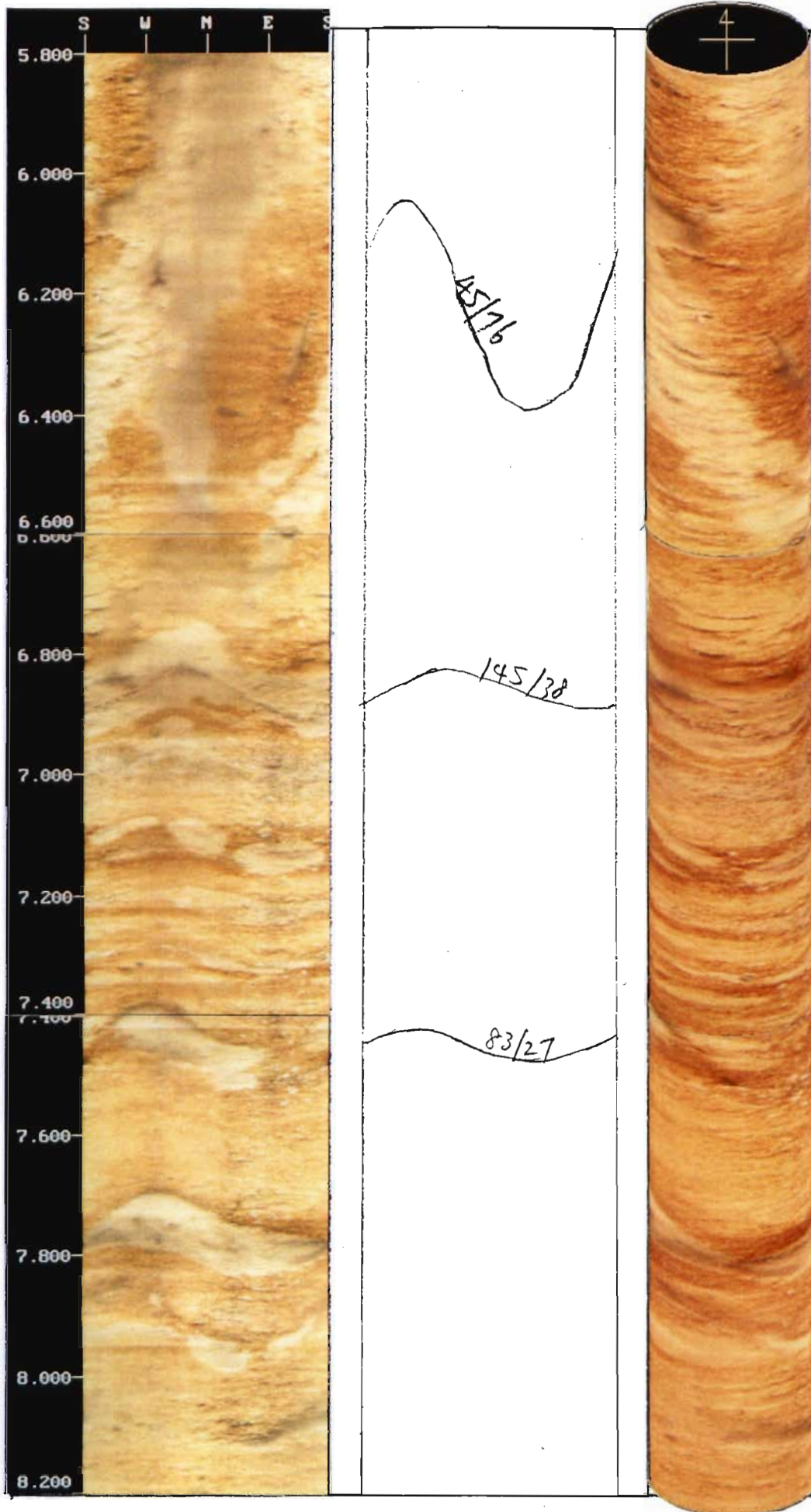


SOUTH EAST TRANSIT PROJECT BH 234 3.40 - 5.80 M



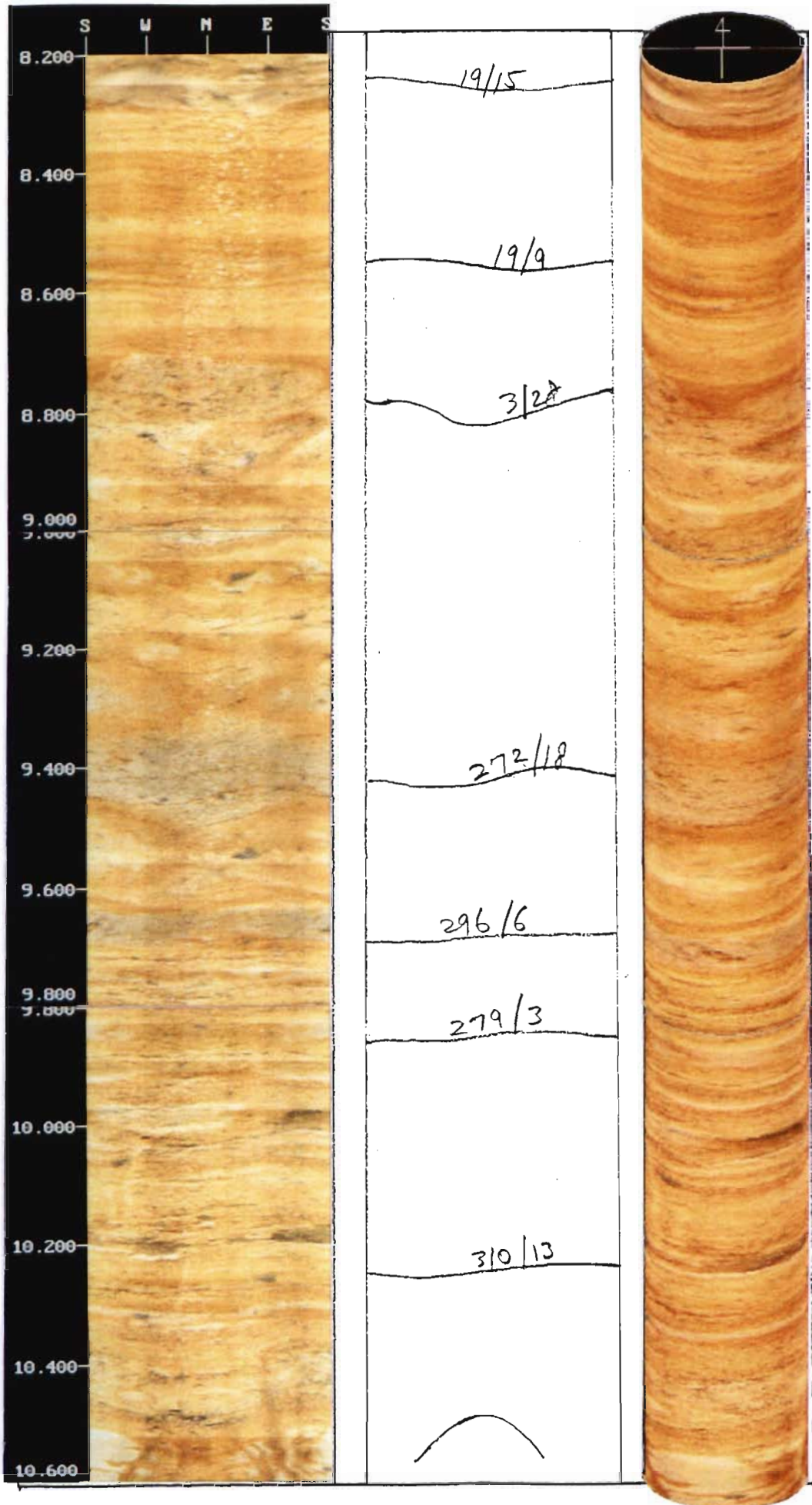
SOUTH EAST TRANSIT PROJECT

BH 234 5.80 - 8.20 M



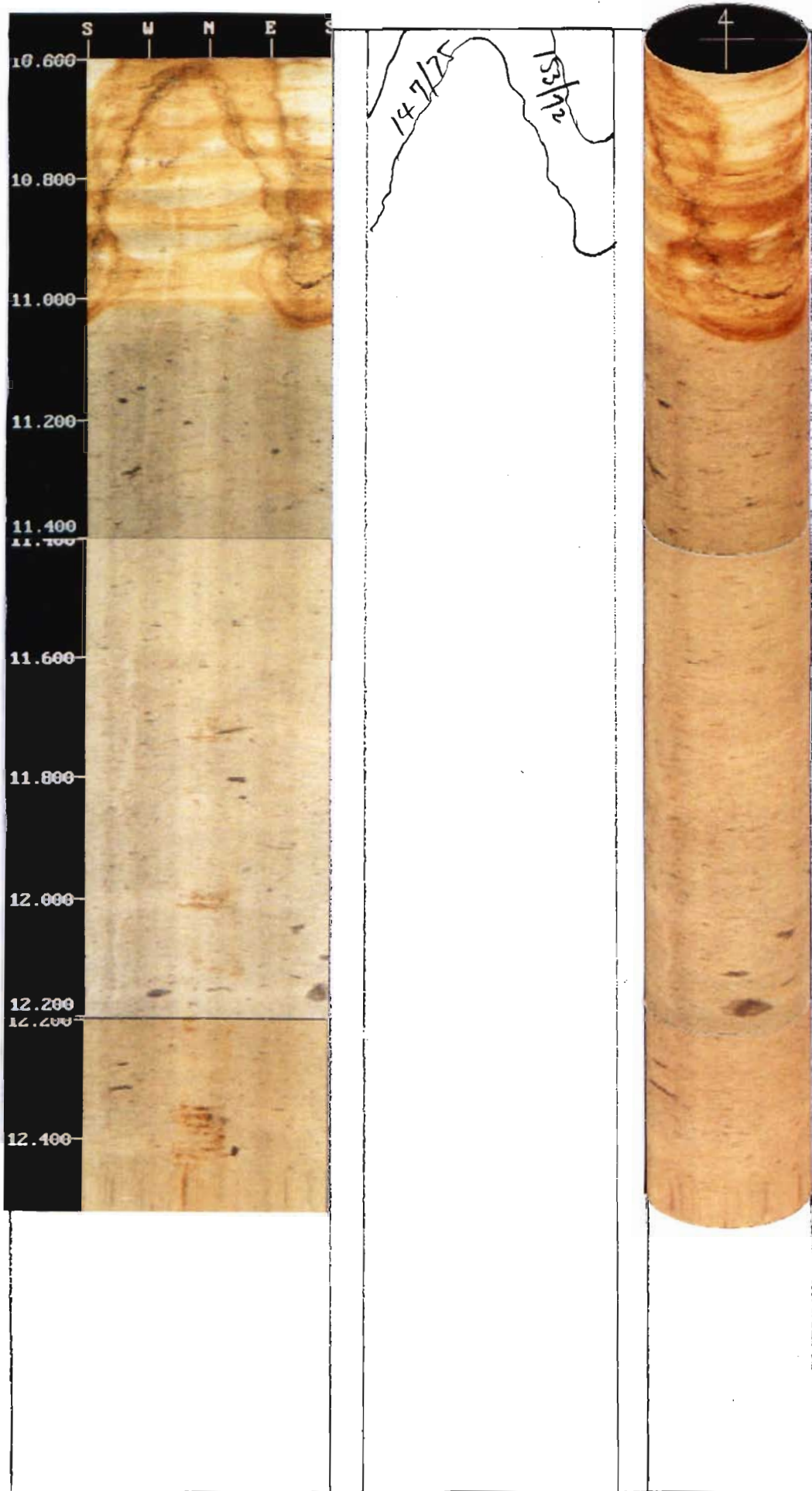
SOUTH EAST TRANSIT PROJECT

BH 234 8.20 - 10.60 M



SOUTH EAST TRANSIT PROJECT

BH 234 10.60 - 12.45 M



SOUTH EAST TRANSIT PROJECT, SECTION 2

WATER PRESSURE TEST RESULTS

2 LUGEONS

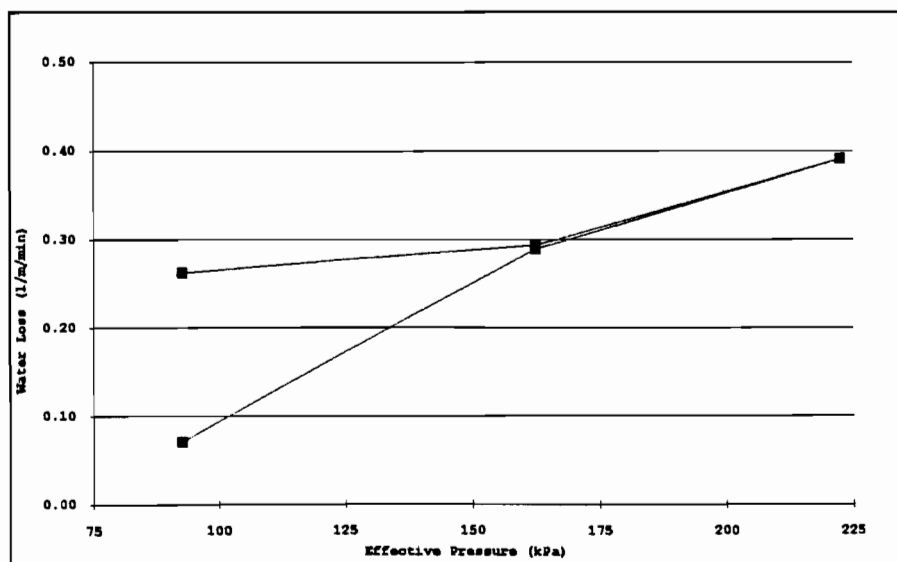
Drill Hole: 234
Test No: 1

Date: 1/12/97

	From (m)	To (m)	Length (m)
Test Section:	8.00	12.50	4.50

Groundwater Depth (m): 3.02
Gauge Height (m): 1.23
Hydrostatic Head (kPa): 42.5

Gauge Pressure (kPa)	Effective Pressure (kPa)	Test Duration (min)	Meter Start (litres)	Meter End (litres)	Water Loss (litres)	Leakage (l/m/min)	Lugeons
50	92.5	5	50.3	51.9	1.6	0.07	0.77
120	162.5	5	55.1	61.6	6.5	0.29	1.78
180	222.5	5	73.5	82.3	8.8	0.39	1.76
120	162.5	5	100	106.6	6.6	0.29	1.81
50	92.5	5	109.9	115.8	5.9	0.26	2.83



SOUTH EAST TRANSIT PROJECT, SECTION 2

WATER PRESSURE TEST RESULTS

<1 LUGEONS

Drill Hole: 234
 Test No: 2

Date: 1/12/97

Test Section: From (m) To (m) Length (m)
 5.00 12.50 7.50

Groundwater Depth (m): 3.02
 Gauge Height (m): 1.13
 Hydrostatic Head (kPa): 41.5

Gauge Pressure (kPa)	Effective Pressure (kPa)	Test Duration (min)	Meter Start (litres)	Meter End (litres)	Water Loss (litres)	Leakage (l/m/min)	Lugeons
50	91.5	5	74.2	74.2	0	0.00	0.00
80	121.5	5	74.9	78.3	3.4	0.09	0.75
130	171.5	5	85.2	90.3	5.1	0.14	0.79
80	121.5	5	101	105.2	4.2	0.11	0.92
50	91.5	5	116.1	117.7	1.6	0.04	0.47

