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ENGINEERING BORELOG

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

BOREHOLE No :	231
SHEET :	1 OF 2
REFERENCE No :	H8169

PROJECT : SOUTH EAST TRANSIT BUS LANE PROJECT-SECTION 2
 LOCATION : 4117.9E 162077.9N
 PROJECT No : C60117 SURFACE R.L. : 20.73 DRILLER : DALY BROTHERS PTY LTD
 JOB No : 650302CN DATUM : AHD DATE DRILLED : 26/11/97

DEPTH (m)	R.L. (m)	AUGER DRILLING CORE REC% OTHER	RQD (%) CORE REC%	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH					DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
							UH	U+M	U+L	U	VL				
0	20.73				SILTY CLAY Red-brown to brown, moist stiff to very stiff; sandy to gravelly in parts; low to medium plasticity. (Probable residual soil from tuff).	CL								Driller's log only.	
1	19.73				XW TUFF	XW								4, 20, 30/85 N=>50	SPT
2	19.34		(47) 100		MW TUFF White to grey white medium to coarse grained massive; rich in feldspar; frequent pyroclasts; porphyritic texture angular to subangular quartz grains; frequent subhorizontal fractures(<25 degrees).									Is (50) = 0.33MPa	x
3			(73) 100											Is (50) = 0.29MPa	x
4					At 3.55, pale grey to orange brown, fine to coarse grained massive; frequent sub-horizontal fractures(<10degrees).								Broken zone.		
5			(85) 100											Is (50) = 0.17MPa	x
6						MW								Is (50) = 0.38MPa	x
7	14.49		(85) 94										26/11/97	Is (50) = 0.21MPa	x
8			(100) 100											Is (50) = 0.64MPa	x
9														15.60MPa	UCS
9			(88) 100											Is (50) = 0.54MPa	x
10	10.73													Is (50) = 0.25MPa	x

REMARKS : *See attached list for defect descriptions.

LOGGED BY
DISS



ENGINEERING BORELOG

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

BOREHOLE No : 231

SHEET : 2 OF 2

REFERENCE No : HB169

PROJECT : SOUTH EAST TRANSIT BUS LANE PROJECT-SECTION 2
 LOCATION : 4117.9E 162077.9N
 PROJECT No : C60117 SURFACE R.L. : 20.73 DRILLER : DALY BROTHERS PTY LTD
 JOB No : 650302CN DATUM : AHD DATE DRILLED : 26/11/97

DEPTH (m)	R.L. (m)	AUGER CORE DRILLING 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				
10	10.73				MW TUFF Pink brown, medium to coarse grained, massive; frequent pyroclasts; porphyritic texture; quartz sub-angular to angular; frequent subhorizontal fractures (<10 degrees).							8.08MPa UCS	
11			(95) 100									Is (50) = 0.38MPa 14.90MPa UCS	x
12			(100) 100			MW						Is (50) = 0.82MPa 10.50MPa UCS	x
13			(100) 100									Is (50) = 0.98MPa	x
14			(100) 100									Is (50) = 0.38MPa Is (50) = 0.75MPa	x x
15	5.85		(100) 100		TUFF Grey green to black grey, fine to medium pyroclastic rock (TUFF). Black baked zone throughout.	XW					Weathered zone.		
16			(100) 100			HW							
17	3.83		(100) 100			MW							
18					END OF HOLE						Broken zone.		
19													
20													

REMARKS :

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DISS

DEFECT DESCRIPTIONS OF BORELOGS

[FOR GEOTECHNICAL TERMS AND SYMBOLS

REFER FORM BQF 075:191/95]

BOREHOLE NO :	231
SHEET :	1 of 3
REFERENCE NO :	H8169

PROJECT	SOUTH EAST TRANSIT PROJECT - SECTION 2				
LOCATION :	4118.433E	162077.128N			
PROJECT NO :	C60117	SURFACE R.L. :	20.71	DRILLER :	DALY BROTHERS PTY LTD
JOB NO :	650302CN	DATUM :	AHD	DATE DRILLED :	26/11/97

DEPTH	DEFECT TYPE	DIP	PLANARITY	ROUGHNESS	APERTURE	WALL ALTERATION	OTHER
0.05							HFZ
1.48	J	40					Cn
1.49	J	10					P,CI
-1.5	J	10					
1.58	J	55		R			P,CI
1.8	J	62		R			P,CI
2.2	J	27		R		PFeSt	P,CI
2.32	J	27		R	T	FeSt	CI
2.5	J	27		R	T	FeSt	CI
2.6	J	27		R	T	FeSt	CI
2.68	J	27		R	T	FeSt	CI
3.12	J	20			T		H,Cn
3.25	J	45		R			Cn
3.33	J	50					HFZ
3.5	J	40		R	O		Cn
3.68	J			R			H,Cn
3.78	J	20		R		FeSt	V
4.08	J	85		R		FeSt	V
4.5	J	50	Ir		T		
4.65	J	35	Ir		T		Cn
6.18	J	25	Ir		T		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
				SZ	Sheared Zone	SI	Sand Infill
PLANARITY		APERTURE		WS	Weathered Seam	H	Horizontal
Pl	Planar	C	Closed	CZ	Crushed Zone	V	Vertical
St	Stepped	O	Open	SM	Secondary Mineralisation	Cl	Clay Infill
Un	Undulating	F	Filled	BZ	Broken Zone	Cn	Clean
Cu	Curved	T	Tight	HFZ	Highly Fractured Zone		
Ir	Irregular						

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

DEFECT DESCRIPTIONS OF BORELOGS

[FOR GEOTECHNICAL TERMS AND SYMBOLS

REFER FORM BQF 075:191/95]

BOREHOLE NO :	231
SHEET :	2 of 3
REFERENCE NO :	H8169

PROJECT	SOUTH EAST TRANSIT PROJECT - SECTION 2		
LOCATION :	4118.433E	162077.128N	
PROJECT NO :	C60117	SURFACE R.L. :	20.71
JOB NO :	650302CN	DATUM :	AHD
		DRILLER :	DALY BROTHERS PTY LTD
		DATE DRILLED :	26/11/97

DEPTH	DEFECT TYPE	DIP	PLANARITY	ROUGHNESS	APERTURE	WALL ALTERATION	OTHER
6.23	J	25	Ir		T		Cn
6.3	J	25	Ir		T		Cn
6.57	J		Ir	R	T		H,Cn
6.78	J	20					
6.95	J	20					
7.04	J		Ir				H,Cn
7.2	HFZ		Ir	R			H
7.25	J	75	Ir	R			
7.38	HFZ	15	Ir	R			H
7.98		10					H
8.8		65		R			Cn
8.83		65		R			Cn
9.33			Ir				H
9.4	J	40		R		FeSt	Cn
9.47	J		Ir	R		FeSt	H
9.74	J		Ir	R	T	FeSt	
10.15	J		Ir	R		FeSt	H
10.45	J	45	Ir			CoFeSt	
10.77		10	Ir				CI

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 Infill
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.

DEFECT DESCRIPTIONS OF BORELOGS

[FOR GEOTECHNICAL TERMS AND SYMBOLS

REFER FORM BQF 075:191/95]

BOREHOLE NO : 231

SHEET : 3 of 3

REFERENCE NO : H8169

PROJECT : SOUTH EAST TRANSIT PROJECT - SECTION 2

LOCATION : 4118.433E 162077.128N

PROJECT NO : C60117 SURFACE R.L : 20.71 DRILLER : DALY BROTHERS PTY LTD

JOB NO : 650302CN DATUM : AHD DATE DRILLED : 26/11/97

DEPTH	DEFECT TYPE	DIP(Degrees)	PLANARITY	ROUGHNESS	APERTURE	WALL ALTERATION	OTHER
11.1	J		Ir	R			PSI,H
11.22	J		Ir		T		H
12.17	J	85	Ir	R			Cn
12.5	J	85	Ir	R			Cn
13.7	J	25		R			CI
14.2	J	75	Ir	R			Cn
14.4	J	40			T	FeSt	Cn
14.51	J		Ir		T		H,Cn
15.37	J	42		Sm			Cn
16.3	J		Ir	R			H
16.4	J		Ir	R			H
16.51	J		Ir	R			H
16.62	J		Ir	R			H

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 Infill
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		

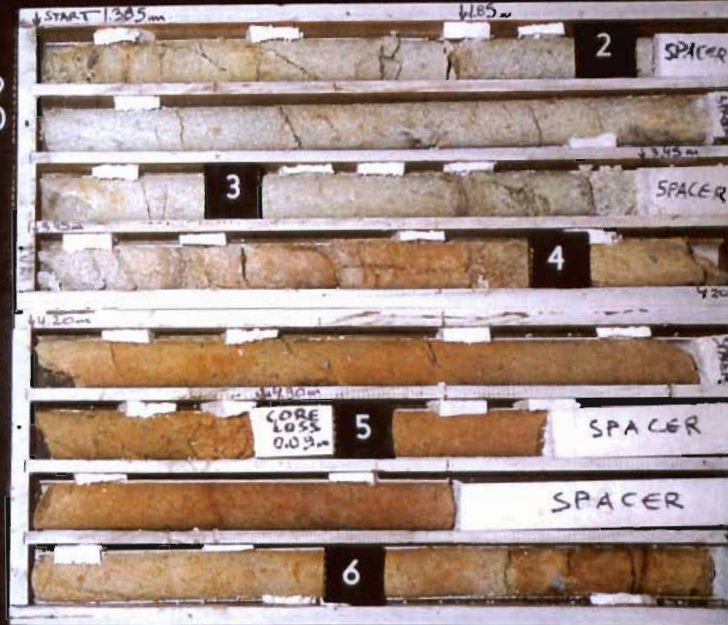
NOTE: This sheet should be read in conjunction with appropriate Engineering Borelog.

BUS TRANSIT TUNNEL - PACKAGE TWO

HOLE 231
START 1.39
END 16.90

H 8169
1 OF 4
NOV 1997

C60117



BUS TRANSIT TUNNEL - PACKAGE TWO

HOLE 231
START 1.39
END 16.90

H 8169
2 OF 4
NOV 1997

C60117

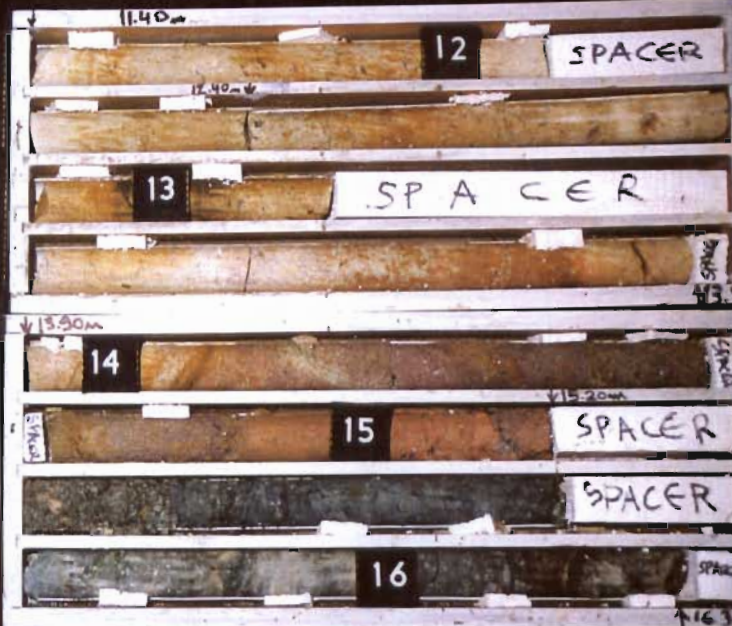


BUS TRANSIT TUNNEL - PACKAGE TWO

HOLE 231
START 1.39
END 16.90

H 8169
3 OF 4
NOV 1997

C60117

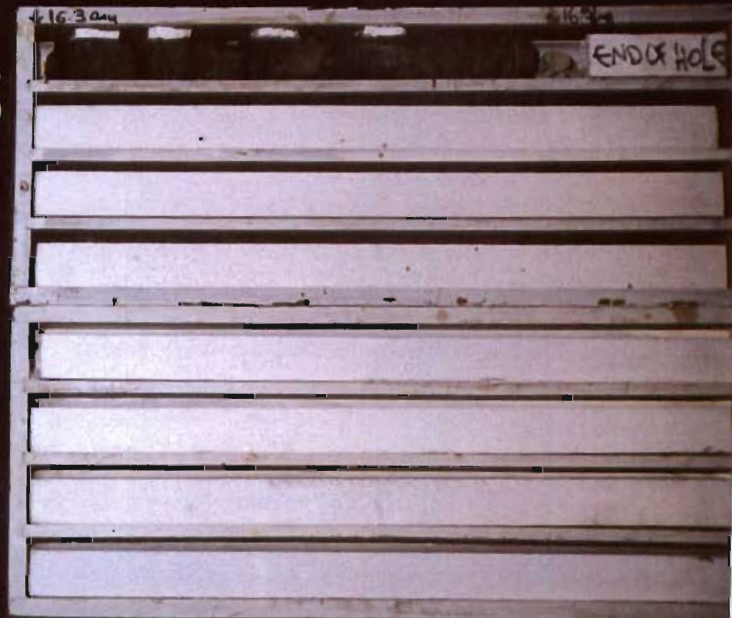


BUS TRANSIT TUNNEL - PACKAGE TWO

HOLE 231
START 1.39
END 16.90

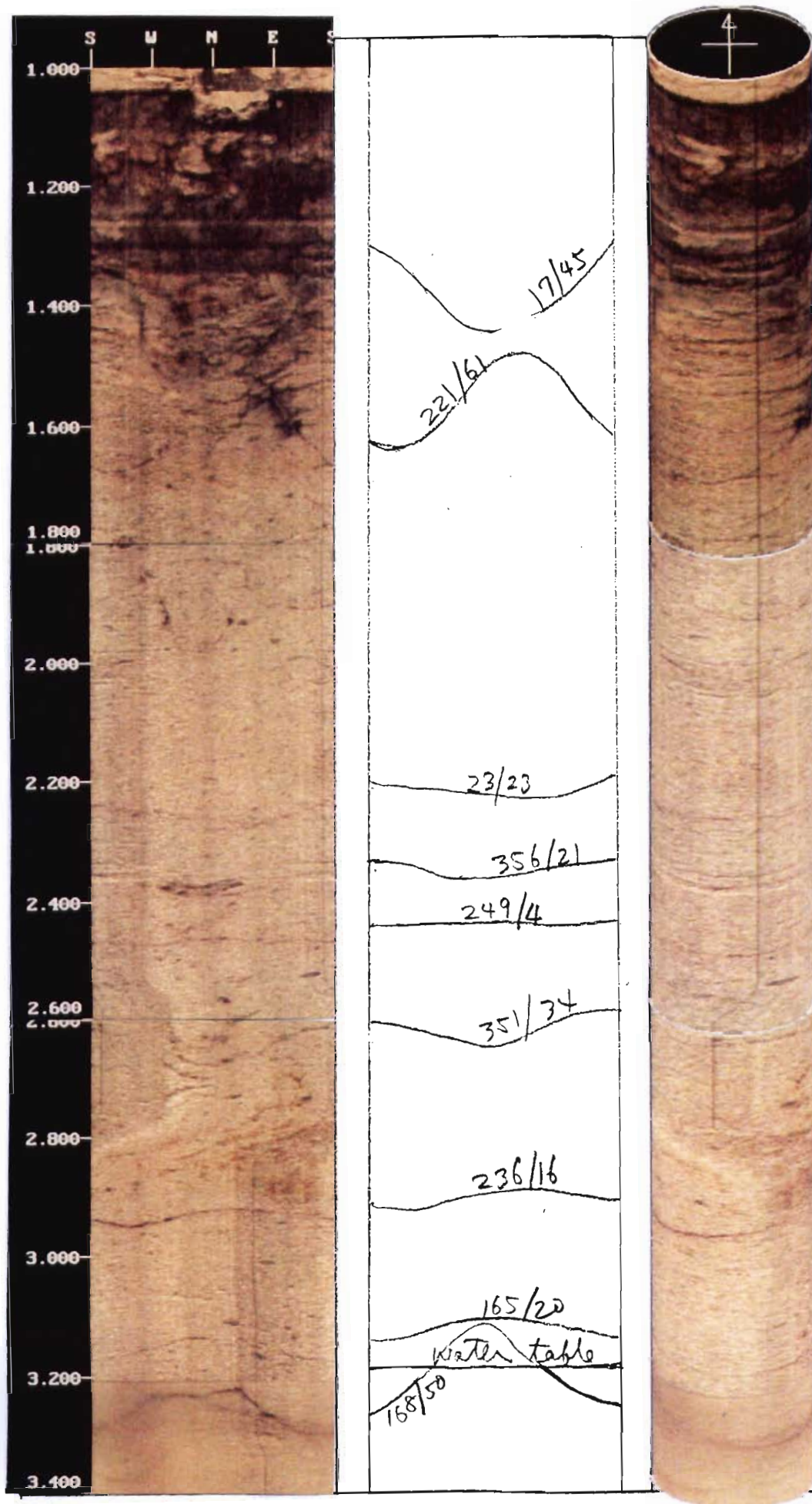
H 8169
4 OF 4
NOV 1997

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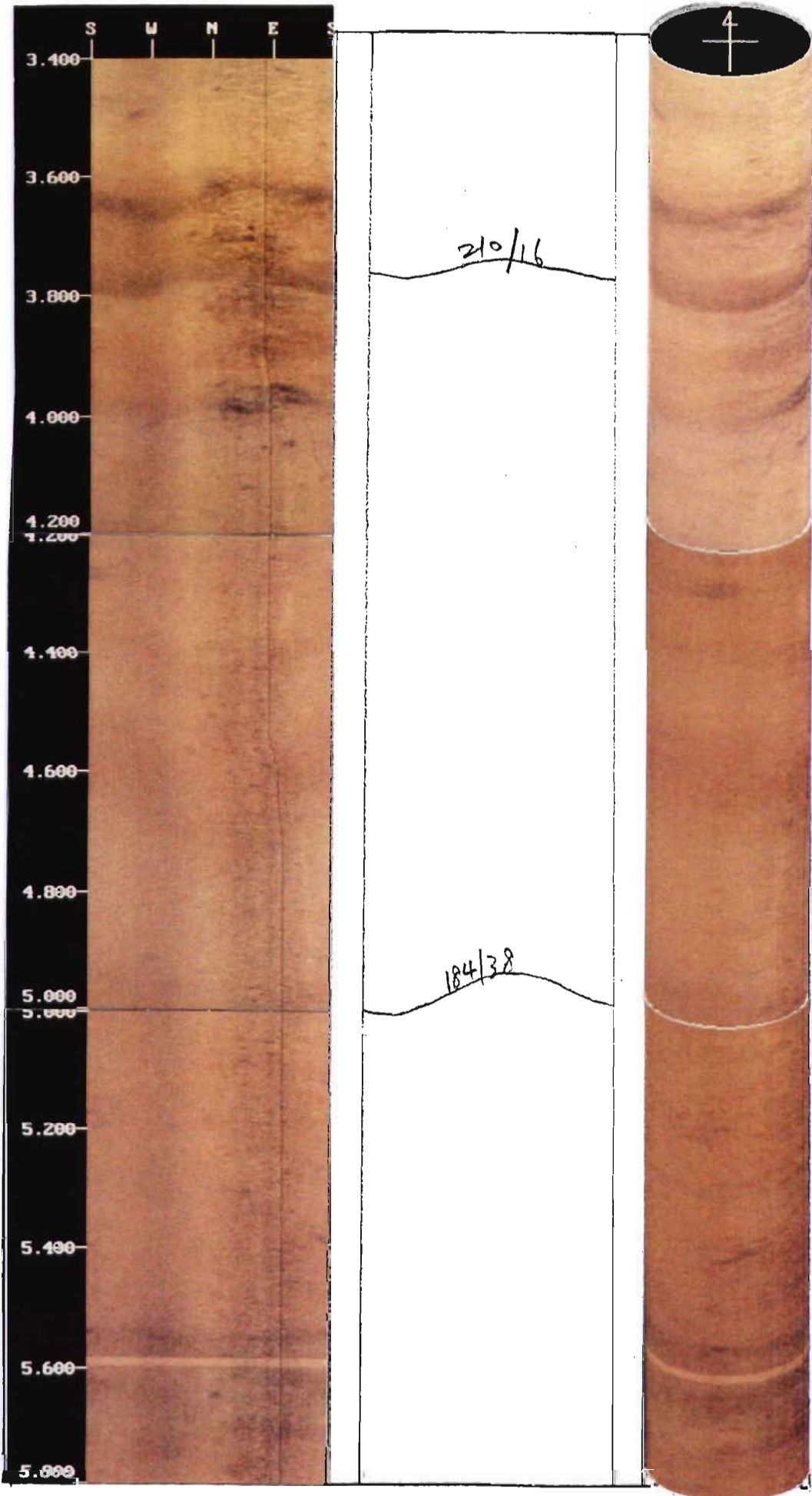
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BH 231 1.00 - 3.40 M

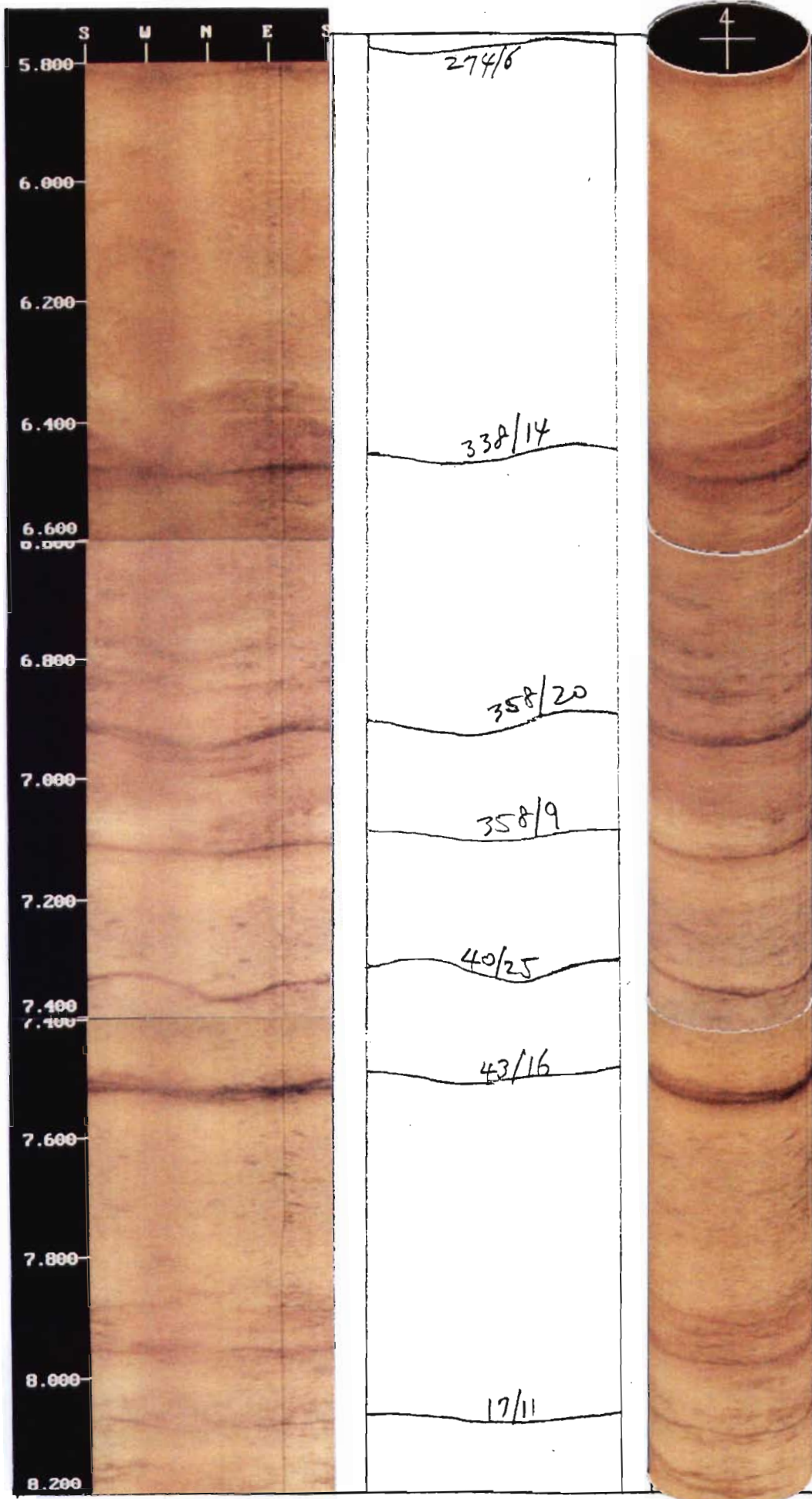


SOUTH EAST TRANSIT PROJECT

BH 231 3.40 - 5.80 M

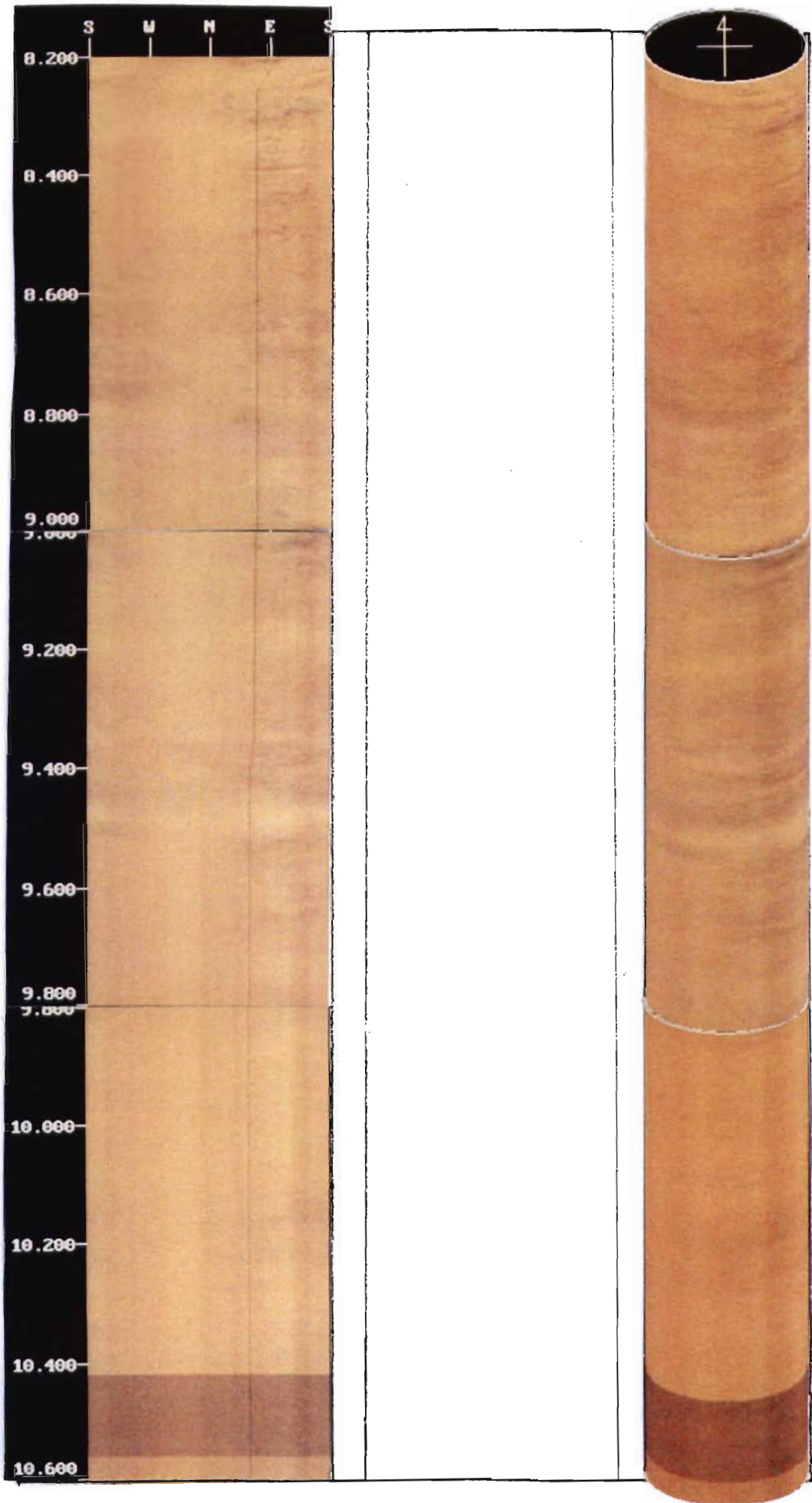


SOUTH EAST TRANSIT PROJECT
BH 231 5.80 - 8.20 M



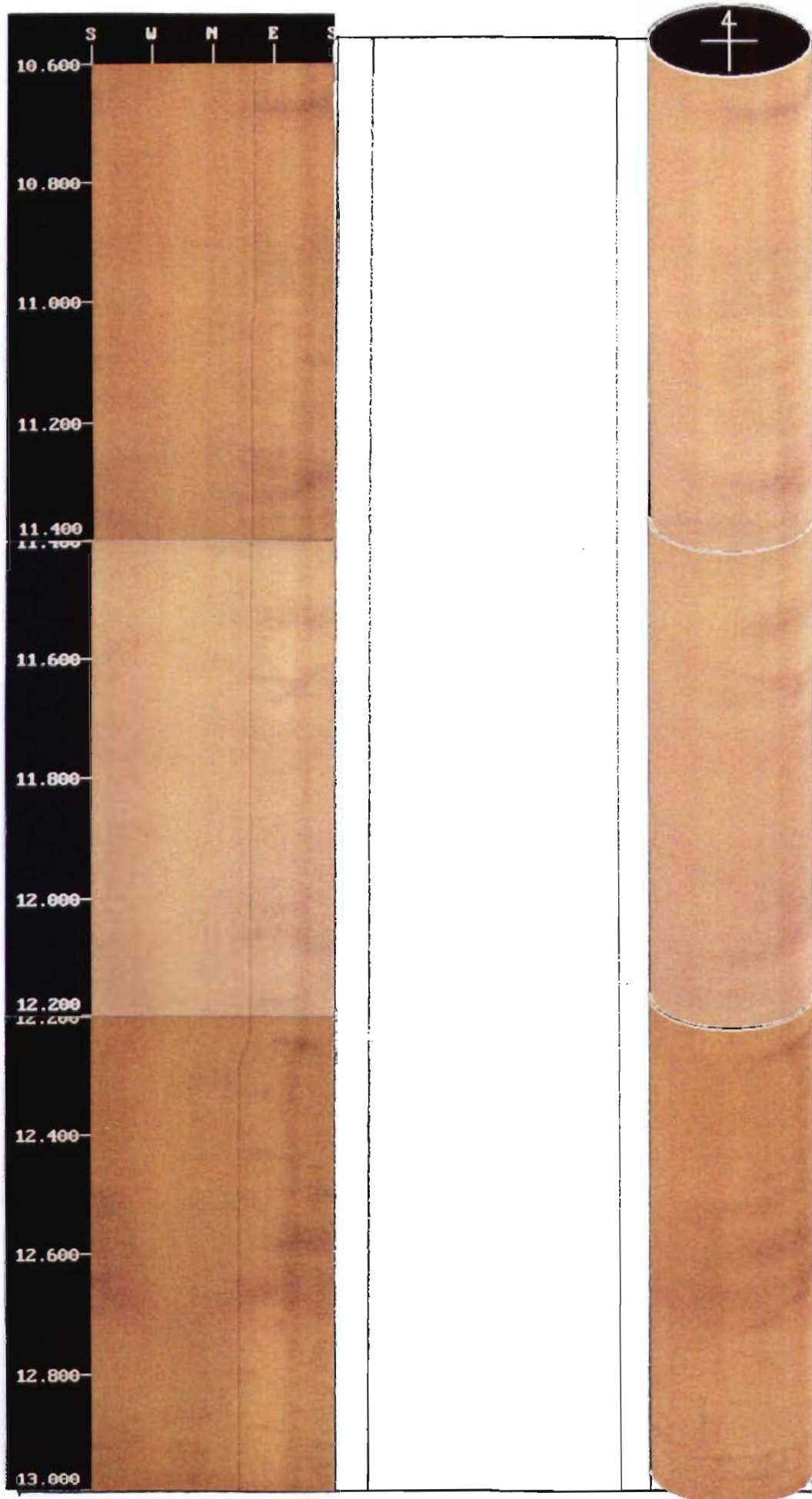
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BH 231 8.20 - 10.60 M

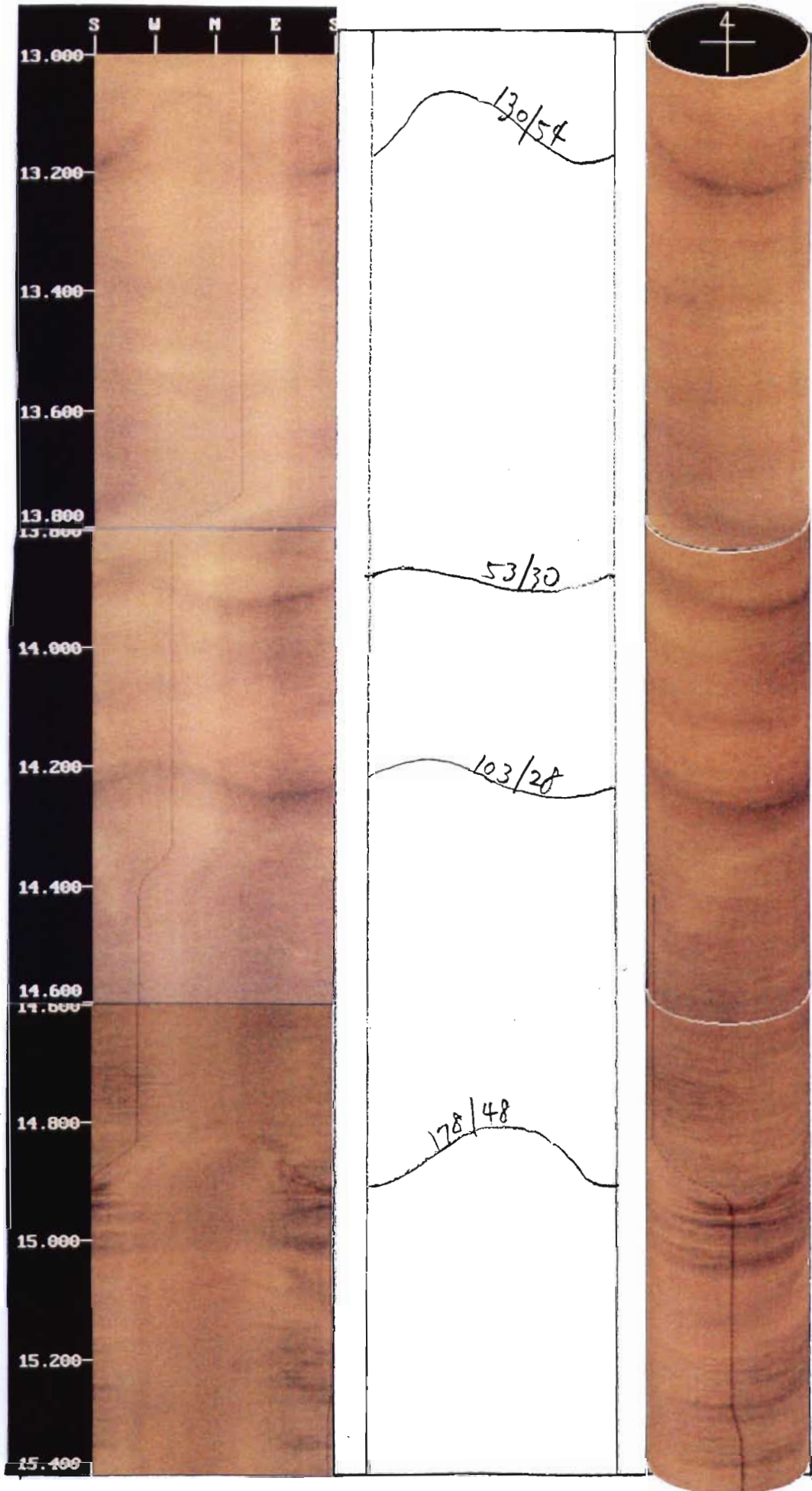


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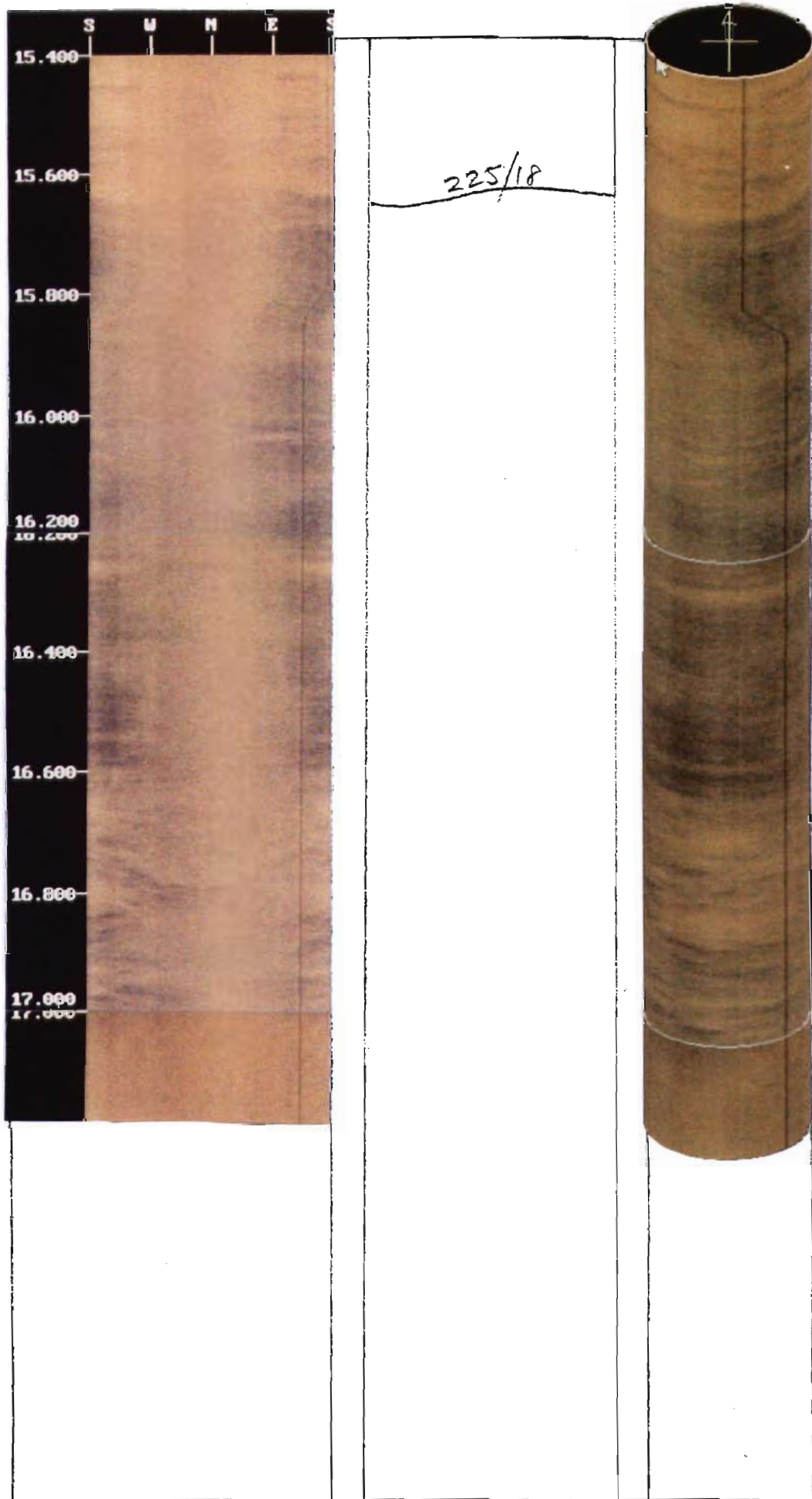
BH 231 10.60 - 13.00 M



SOUTH EAST TRANSIT PROJECT
BH 231 13.00 - 15.40 M



SOUTH EAST TRANSIT PROJECT
BH 231 15.40 - 17.20 M



SOUTH EAST TRANSIT PROJECT, SECTION 2

WATER PRESSURE TEST RESULTS

0 LUGEONS

Drill Hole: 231
Test No: 1

Date: 27/11/97

	From (m)	To (m)	Length (m)
Test Section:	13.00	16.90	3.90

Groundwater Depth (m):	6.24
Gauge Height (m):	1.85
Hydrostatic Head (kPa):	80.9

Gauge Pressure (kPa)	Effective Pressure (kPa)	Test Duration (min)	Meter Start (litres)	Meter End (litres)	Water Loss (litres)	Leakage (l/m/min)	Lugeons
50	130.9	5	24	24	0	0.00	0.00
80	160.9	5	24	24	0	0.00	0.00
180	260.9	5	24	24	0	0.00	0.00
80	160.9	5	24	24	0	0.00	0.00
50	130.9	5	24	24	0	0.00	0.00