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ENGINEERING BORELOG

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

BOREHOLE No : 230

SHEET : 1 OF 2

REFERENCE No : H8168

PROJECT : SOUTH EAST TRANSIT BUS LANE PROJECT - SECTION 2
LOCATION : 4091.051E 162118.133N ON MARKED LOCATION
PROJECT No : C60117 SURFACE R.L. : 24.83 DRILLER : DALY BROTHERS PTY LTD
JOB No : 650302CN DATUM : AHD DATE DRILLED : 9/12/97

DEPTH (m)	R.L. (m)	ALGER 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	24.83					XW TUFF	XW				Driller's log only.	
1	23.83					HW TUFF	HW				10, 7, 30/105=>50	SPT
	23.33					TUFF : PALE GREEN TO PALE GREY, FINE TO COARSE GRAINED MASSIVE PYROCLASTIC ROCK. PORPHYRITIC TEXTURE; FREQUENT PYROCLASTS THROUGHOUT.					Is (30) = 0.76MPa	x
2						MW TUFF : Pale brown to orange; partly to completely red brown ironstaining throughout.					Is (50) = 0.69MPa	x
3			(80%)	100							Is (50) = 0.24MPa	x
4			(85)	100							Is (50) = 0.19MPa	x
5											Is (50) = 0.34MPa	x
6	19.28		(81)	100		Pale grey to white; frequent pyroclasts; red brown ironstaining only along defects	MW				Is (50) = 0.09MPa	x
7			(84)	100							Is (50) = 0.34MPa	x
8						Pale orange to white; partly red brown ironstaining throughout						
9	15.90		(47)	100		Pink to pink grey; coarse grained					Is (50) = 0.64MPa	x
10	14.83											

REMARKS : *NOTE: Specimen was subjected to Modulus testing prior to UCS Testing.

Therefore these strength values may be underestimated.

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ENGINEERING BORELOG

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BOREHOLE No : 230
SHEET : 2 OF 2
REFERENCE No : H8168

PROJECT : SOUTH EAST TRANSIT BUS LANE PROJECT - SECTION 2
LOCATION : 4091.051E 162118.133N ON MARKED LOCATION
PROJECT No : C60117 SURFACE R.L. : 24.83 DRILLER : DALY BROTHERS PTY LTD
JOB No : 650302CN DATUM : AHD DATE DRILLED : 9/12/97

DEPTH (m)	R.L. (m)	AUGER CORE DRILLING CORE CASING OTHER	RQD (%)	CORE REC%	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
10	14.83											
						MW TUFF Pink to pink grey					*8.75MPa Occasional highly fractured zones	UCS
			(95)	100							Sheared zone; F/D=243/40.	
11							MW				Is (50)=0.20MPa	x
12			(27)	100							Is (50)=0.02MPa	x
12.08												
13	11.83					HW TUFF	HW					
			(21)	76		MW TUFF Green grey to pale pink grey; bedded						
14							MW					
			(84)	100							13.50MPa Is (50)=0.35MPa	UCS x
15	9.73											
			(40)	100		PHYLITE: GREEN TO GREY GREEN FINE TO MEDIUM GRAINED BEDDED METASEDIMENTARY ROCK. BEDDING 40-60 DEGREES; FRIABLE AND BREAKABLE ALONG FOLIATION PLANE AND BEDDING PARTINGS; CONCORDANT QUARTZ VEINS UP TO 40MM.	MW				Is (50)=0.57MPa	o
16											Closely spaced defects from 15.75m to 16.75m, parallel to foliation plane.	
				100								
17											Is (50)=0.11MPa	x
18			(33)	100		SW PHYLITE Grey to green grey.	SW					
19												
			(50%)	100							Is (50)=0.41MPa	o
20	5.03					END OF HOLE						

REMARKS : *See attached list for defect descriptions.

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DEFECT DESCRIPTIONS OF BORELOGS

[FOR GEOTECHNICAL TERMS AND SYMBOLS]

REFER FORM BQF 075.191/95]

BOREHOLE NO : 230
SHEET : 1 of 2
REFERENCE NO : H8168

PROJECT : SOUTH EAST TRANSIT PROJECT - SECTION 2
LOCATION : 4091.051E 162118.133N
PROJECT NO : C60117 SURFACE R.L : 24.84 DRILLER : DALY BROTHERS P/L
JOB NO : 650302CN DATUM : AHD DATE DRILLED : 9/12/97

DEPTH	DEFECT TYPE	DIP(Degrees)	PLANARITY	ROUGHNESS	APERTURE	WALL ALTERATION	OTHER
1.52	J		Ir	R		PFeSt	H
1.57	J	10	Ir	R		PFeSt	
1.72	J	10	Ir			PFeSt	
1.76	J	10		R		PFeSt	
1.9	J	10		R			Cn
2	J	10	Ir			PFeSt	
2.12	J	10		R	T	PFeSt	
2.28	J	30	Ir	R			CI
2.52	J		Ir	R		PFeSt	
2.72	J	90			T	CoFeSt	
2.85	J	90			T	CoFeSt	
3	J		Ir				H
3.72	J	10	Ir	R		CoFeSt	
4.16	J	10	Ir	R		CoFeSt	
4.42	J	10					
4.7	J	10	Ir			CoFeSt	CI
4.9	J	10		R		CoFeSt	
4.92	J	10		R		CoFeSt	
5.12	J	10		R			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
PLANARITY		APERTURE		SZ	Sheared Zone	SI	Sand Intill
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 Intill
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]

REFER FORM BQF 075:191/95]

BOREHOLE NO : 230
SHEET : 2 of 2
REFERENCE NO : H8168

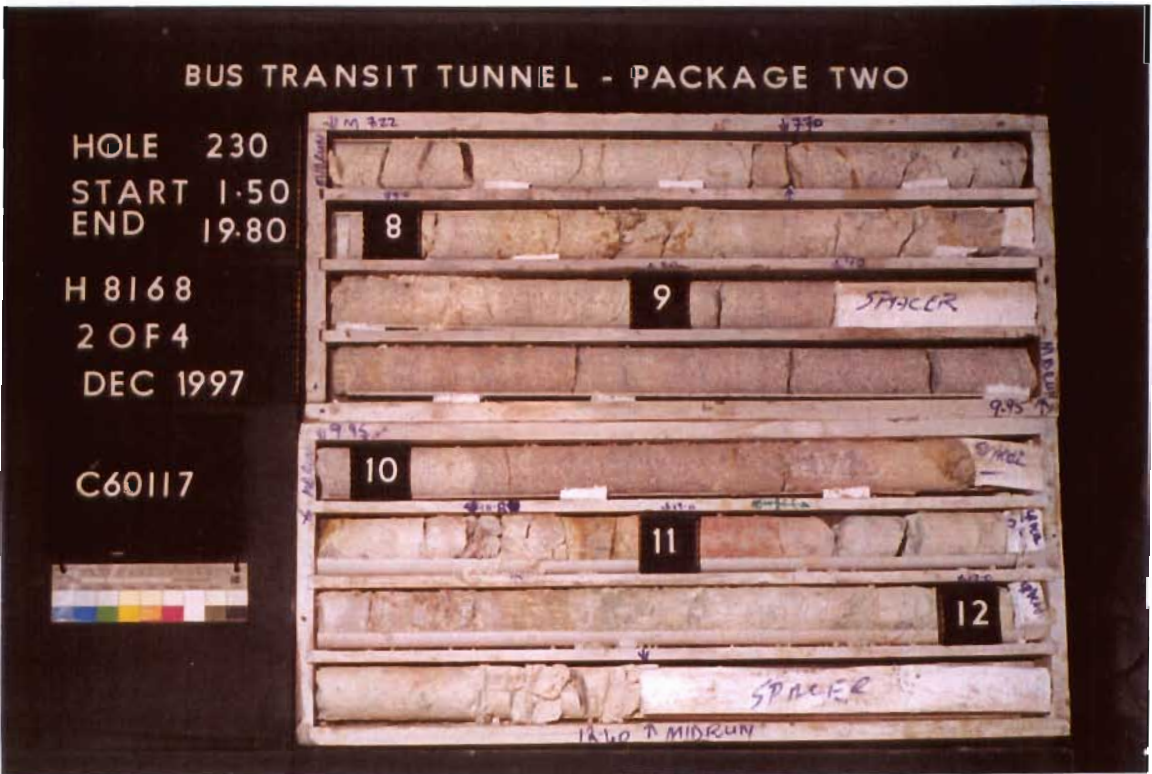
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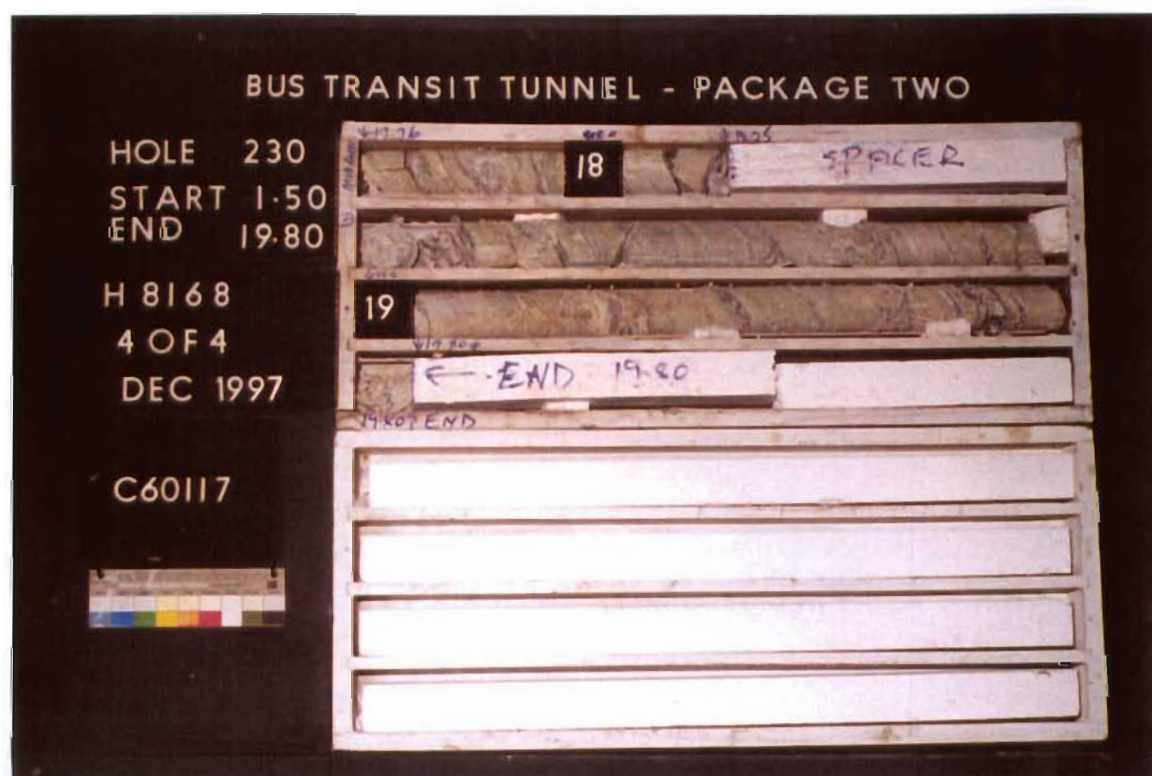
DEPTH	DEFECT TYPE	DIP(Degrees)	PLANARITY	ROUGHNESS	APERTURE	WALL ALTERATION	OTHER
5.18	J	10		R			Cn
5.3	J	10		R			Cn
5.45	J	10		R			Cn
5.7	J	30	Pl	Sm			CI
6.47	J	10			T	CoFeSt	
7.28	J	10	Ir	R		PFeSt	
7.37	J	10	Ir	R		PFeSt	
8.26	J	30		R		PFeSt	
8.56	J	40			T		Cn
9.69	J	20	Ir		O		Cn
9.8	J	10			T		Cn
13.85	J						QZ
14.5							QZ

Abbreviations

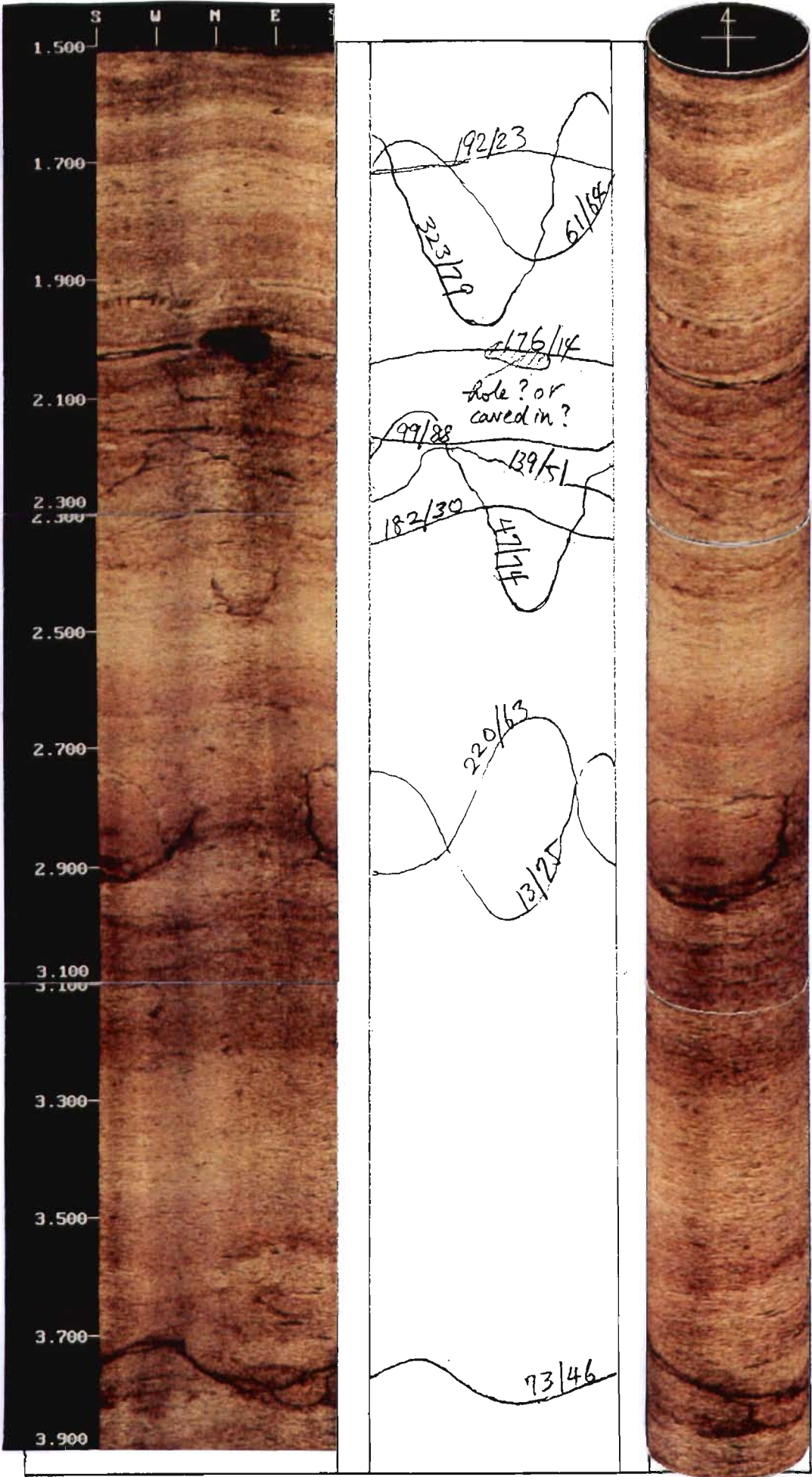
ROUGHNESS		WALL ALTERATIONS		TYPE		OTHER	
R	Rough	FeSt	Iron Stained	J	Joint	P	Partly
Sm	Smooth	W	Weathered	B	Bedding	QZ	Quartz Vein
SL	Slickensided			BP	Bedding Parting	Co	Completely
				F	Foliation	In	Incipient
PLANARITY		APERTURE		SZ	Sheared Zone	SI	Sand Infil
Pl	Planar	C	Closed	WS	Weathered Seam	H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

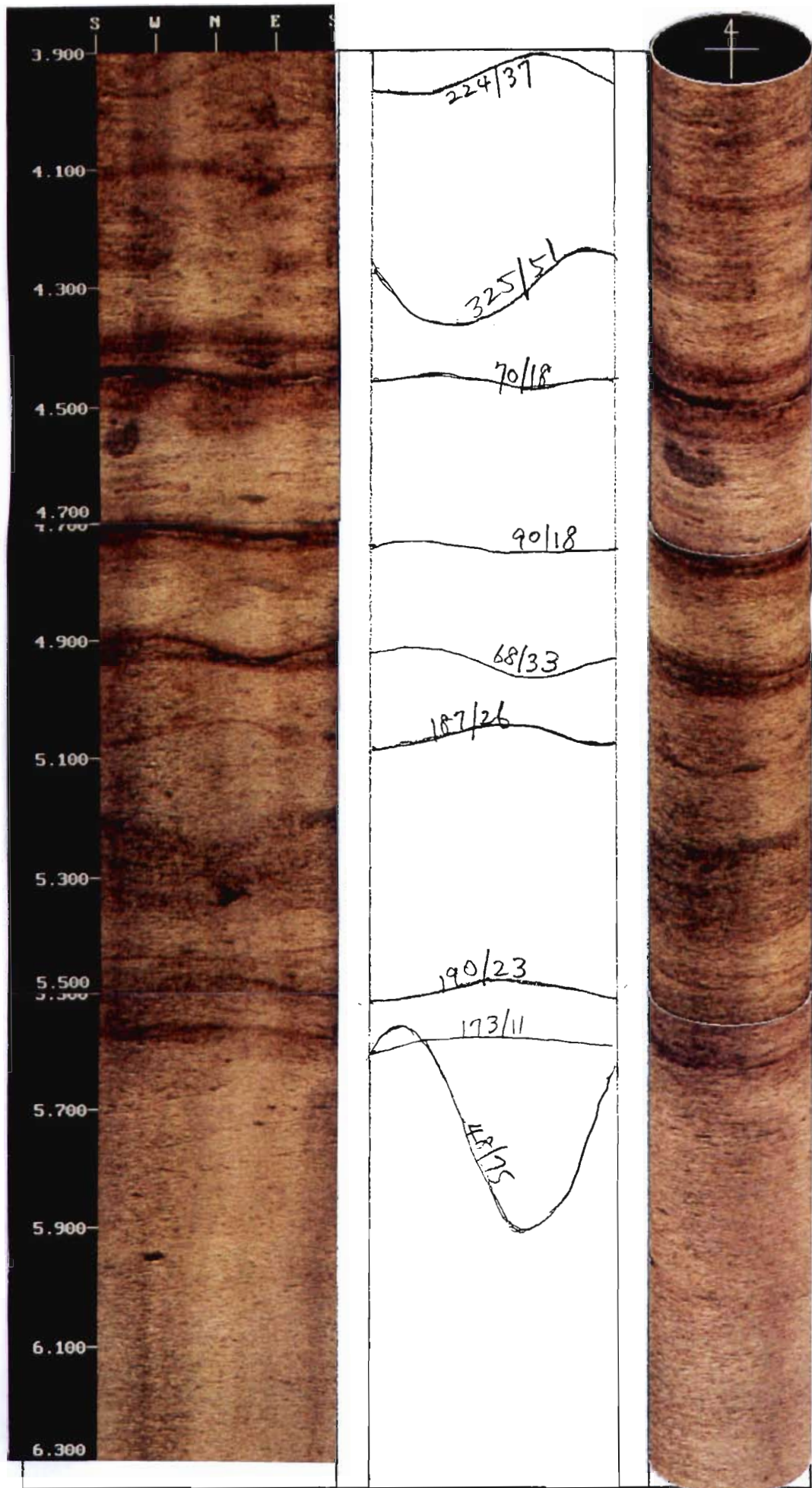




SOUTH EAST TRANSIT PROJECT
BH 230 1.50 - 3.90 M

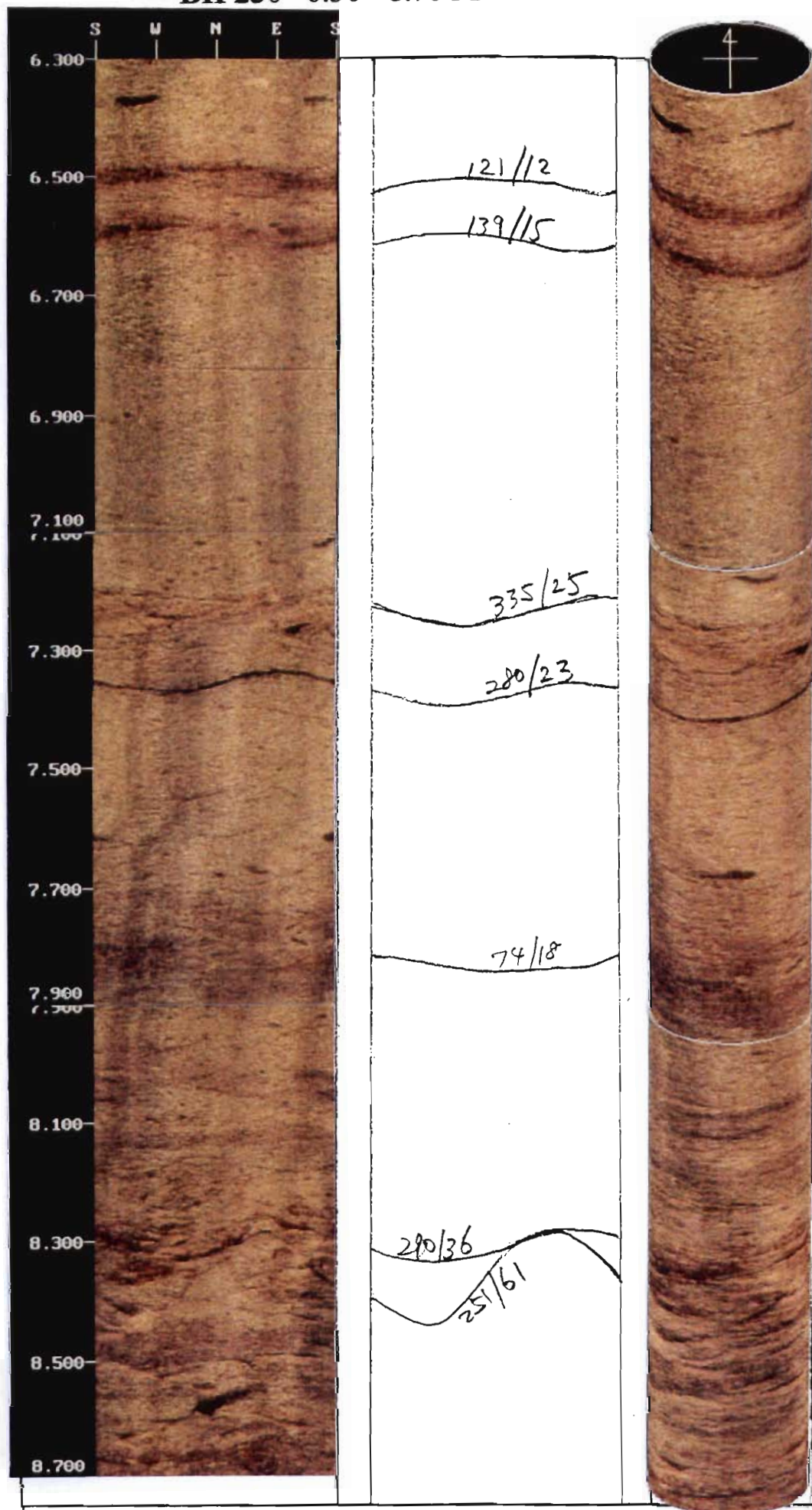


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BH 230 3.90 - 6.30 M

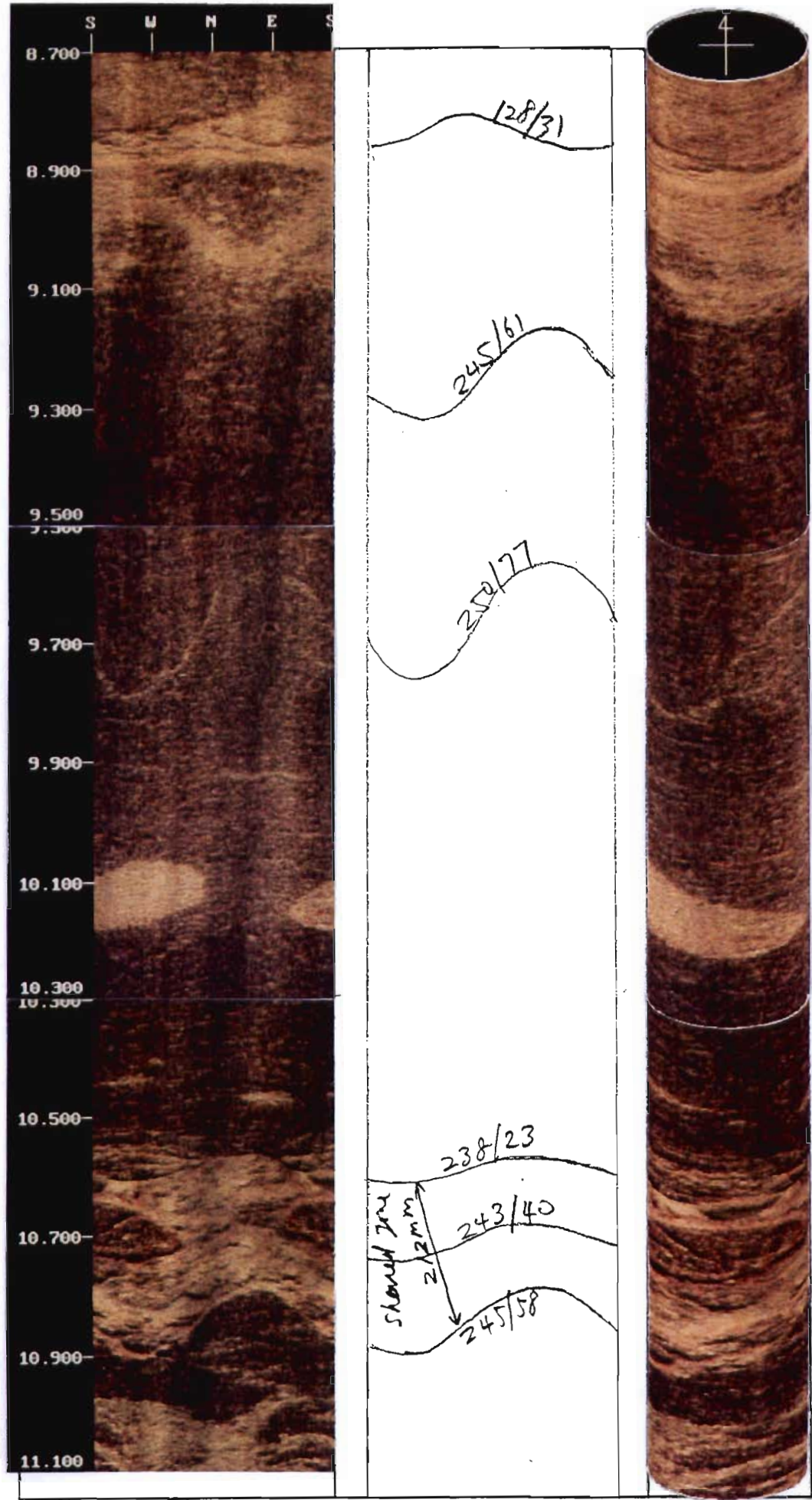


SOUTH EAST TRANSIT PROJECT

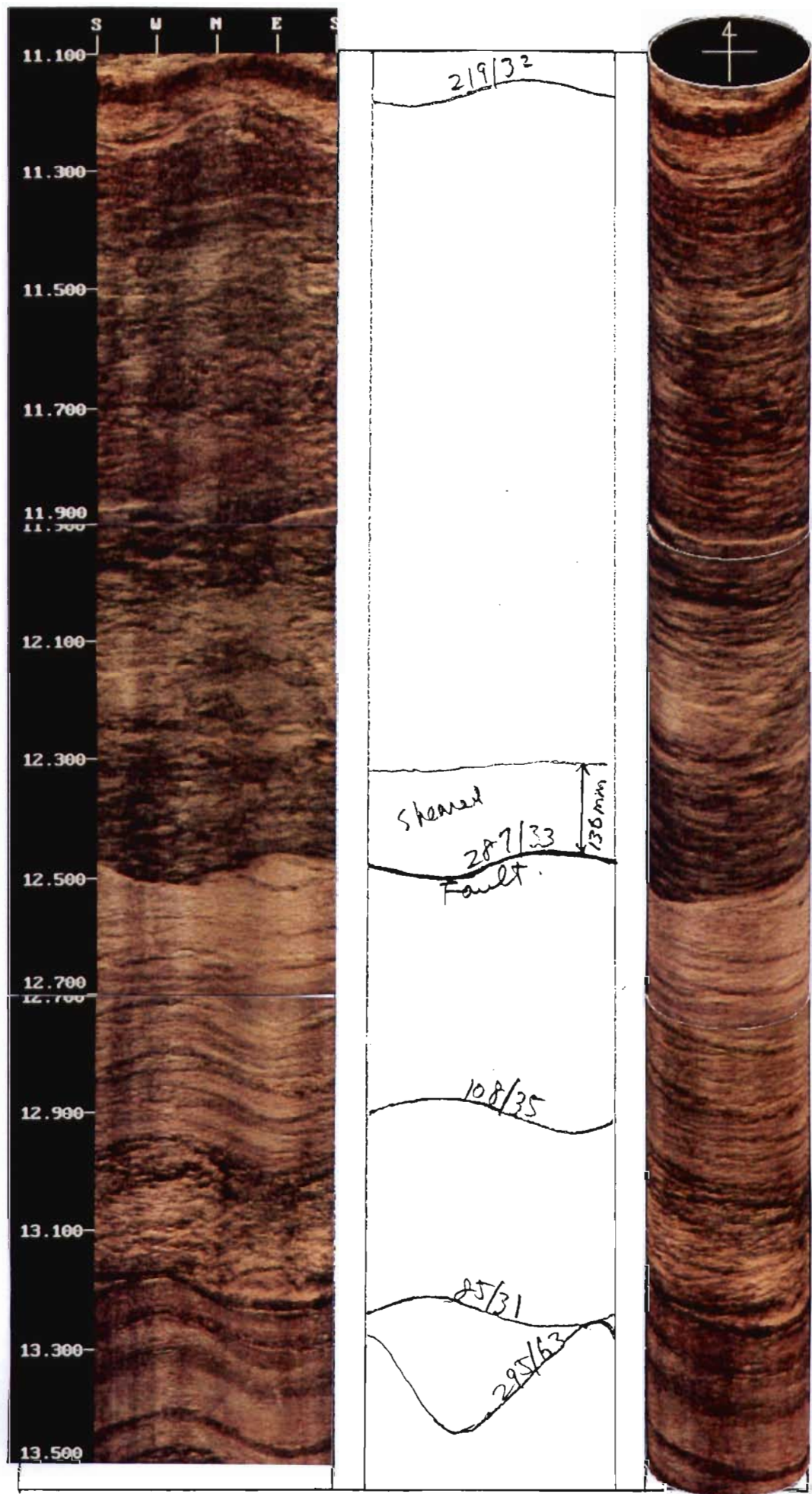
BH 230 6.30 - 8.70 M



SOUTH EAST TRANSIT PROJECT
BH 230 8.70 - 11.10 M

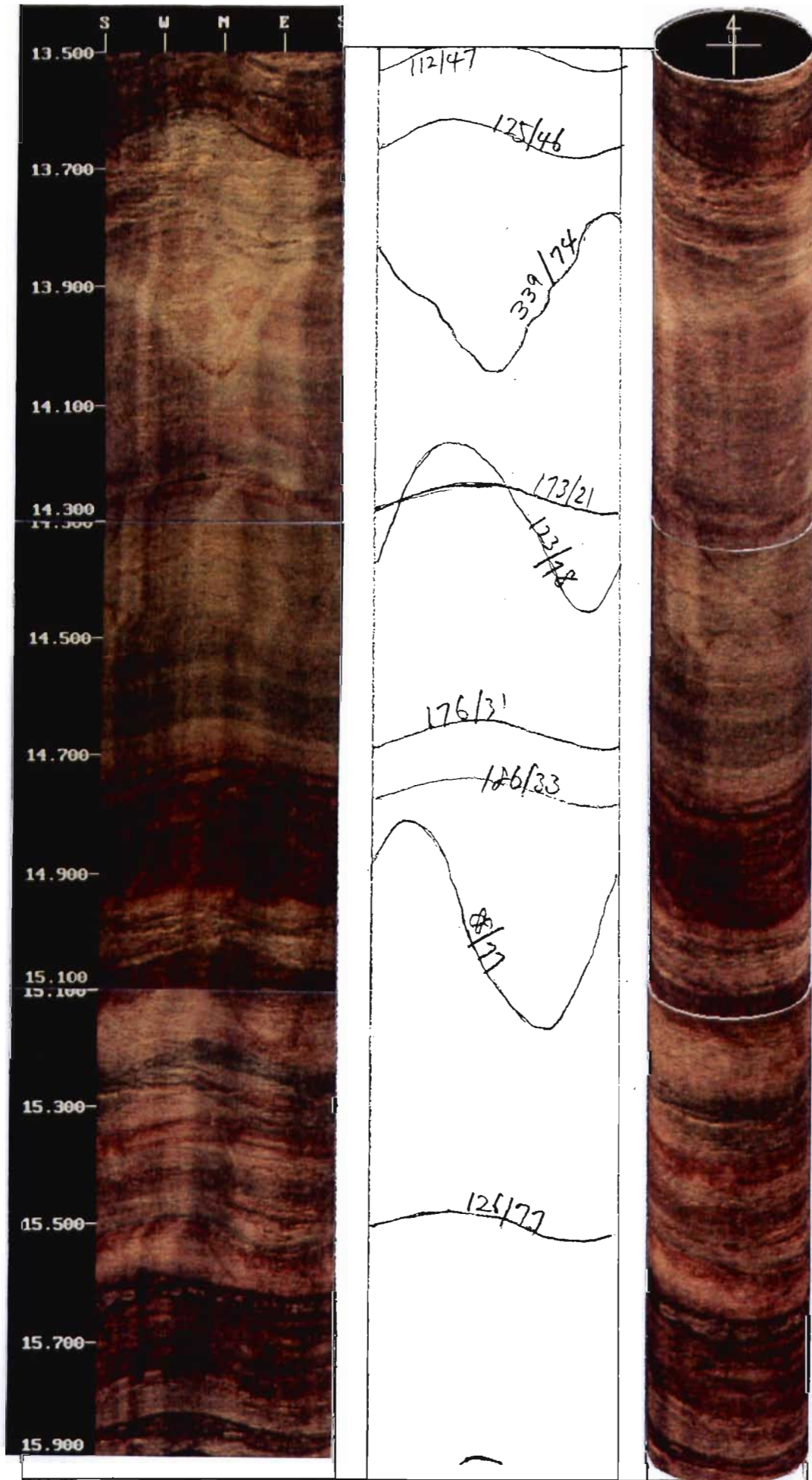


SOUTH EAST TRANSIT PROJECT
BH 230 11.10 - 13.50 M

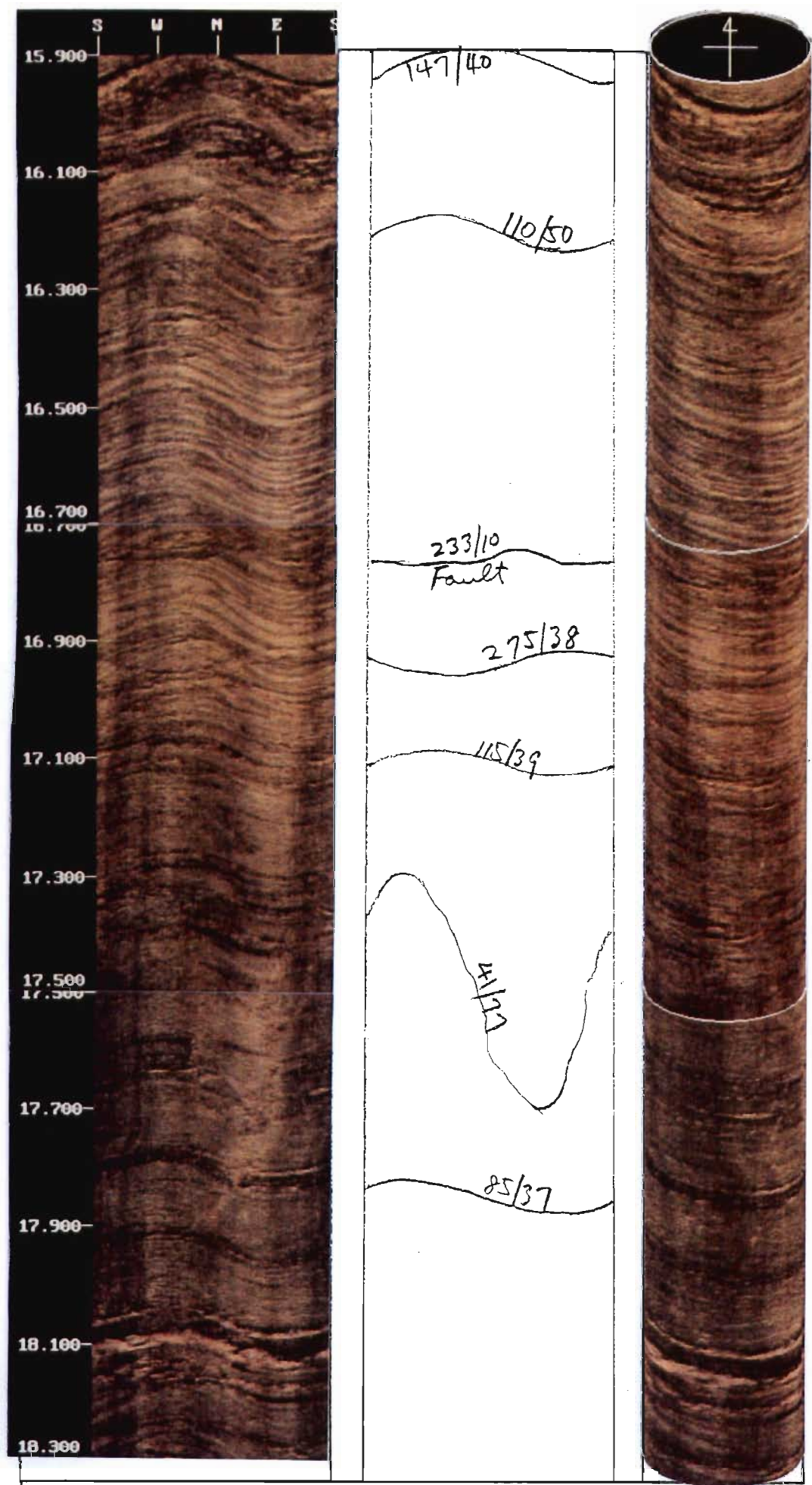


SOUTH EAST TRANSIT PROJECT

BH 230 13.50 - 15.90 M



SOUTH EAST TRANSIT PROJECT
BH 230 15.90 - 18.30 M



SOUTH EAST TRANSIT PROJECT
BH 230 18.30 - 19.90 M

