ENGINEERING BORELOG

Main Roads

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)	AUGER / CORE DRILLING / CASING / OTHER	RQD ( )% CORE REC%	SAMPLE	MATERIAL DESCRIPTION	USC	WEATHERING	INTACT STRENGTH (EH VH H M L VL)	DEFECT SPACING (mm) (20 60 200 600 2000)	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(50)=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											Is(50)=0.19MPa		x
5			(85) 100										
	19.28										Is(50)=0.34MPa		x
6			(81) 100		Pale grey to white; frequent pyroclasts; red brown ironstaining only along defects	MW							
7											Is(50)=0.09MPa		x
	17.11		(84) 100								Is(50)=0.34MPa		x
8					Pale orange to white; partly red brown ironstaining throughout								
	15.90												
9			(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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10	14.83												
			(95) 100		**MW TUFF** Pink to pink grey		MW				*8.75MPa Occasional highly fractured zones Sheared zone; F/D=243/40.		UCS
11											Is(50)=0.20MPa		x
12			(27) 100								Is(50)=0.02MPa		x
	12.08												
	11.83				**HW TUFF**		HW						
13			(21) 76		**MW TUFF** Green grey to pale pink grey; bedded		MW						
14													
			(84) 100								13.50MPa Is(50)=0.35MPa		UCS x
15	9.73				**PHYLIITE: 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
	9.08		(40) 100										
16			100								Closely spaced defects from 15.75m to 16.75m, parallel to foliation plane.		
17											Is(50)=0.11MPa		x
18			(33) 100		SW PHYLLITE Grey to green grey.		SW						
19											Is(50)=0.41MPa		o
	5.03		(50%) 100										
20					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	Folliation	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	Cl	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.

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JOB NO	:	650302CN	DATUM	:	AHD	DATE DRILLED	: 9/12/97

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			Cl
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	Folliation	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	Cl	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.

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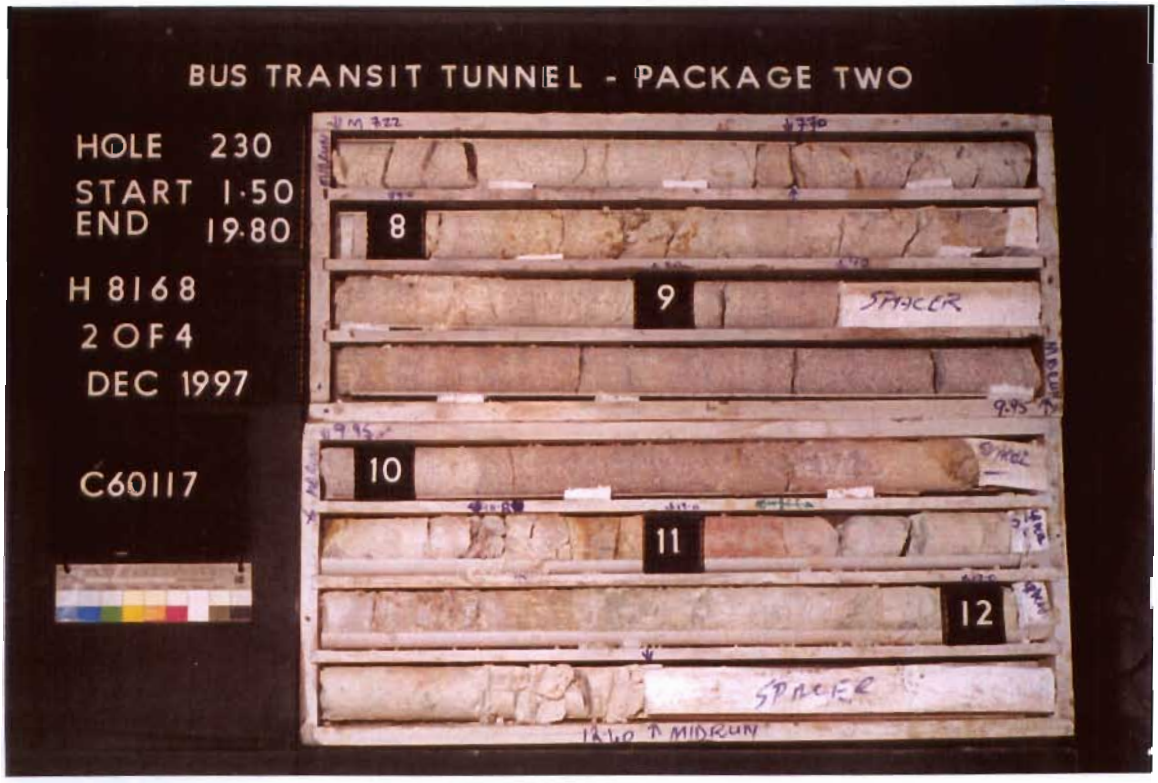
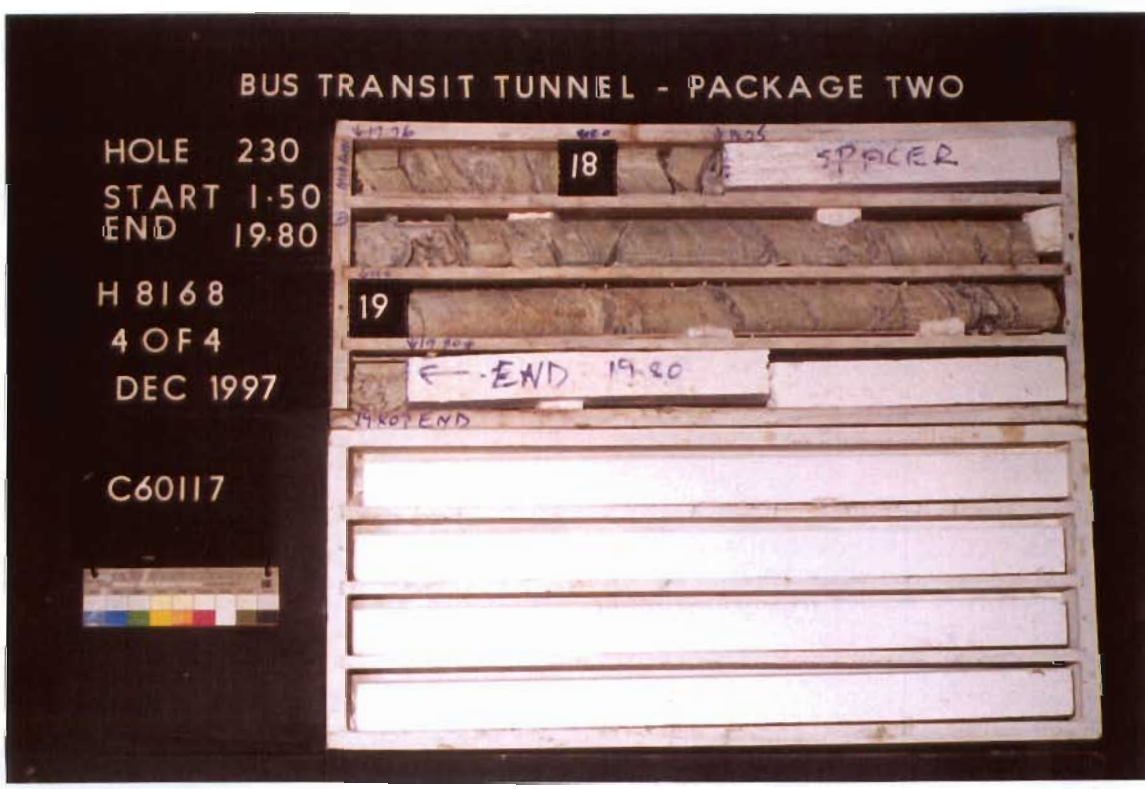
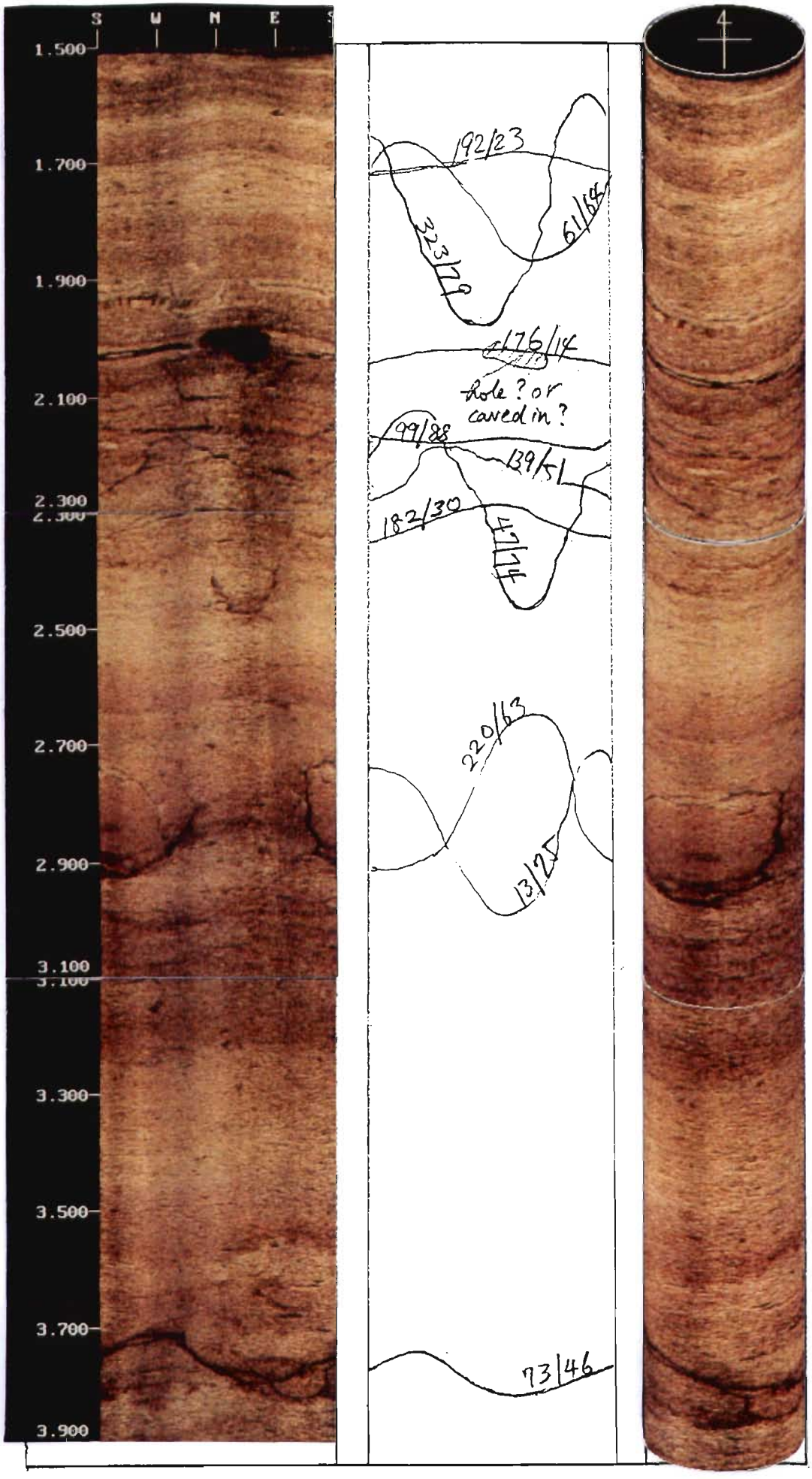




SOUTH EAST TRANSIT PROJECT

BH 230 1.50 - 3.90 M



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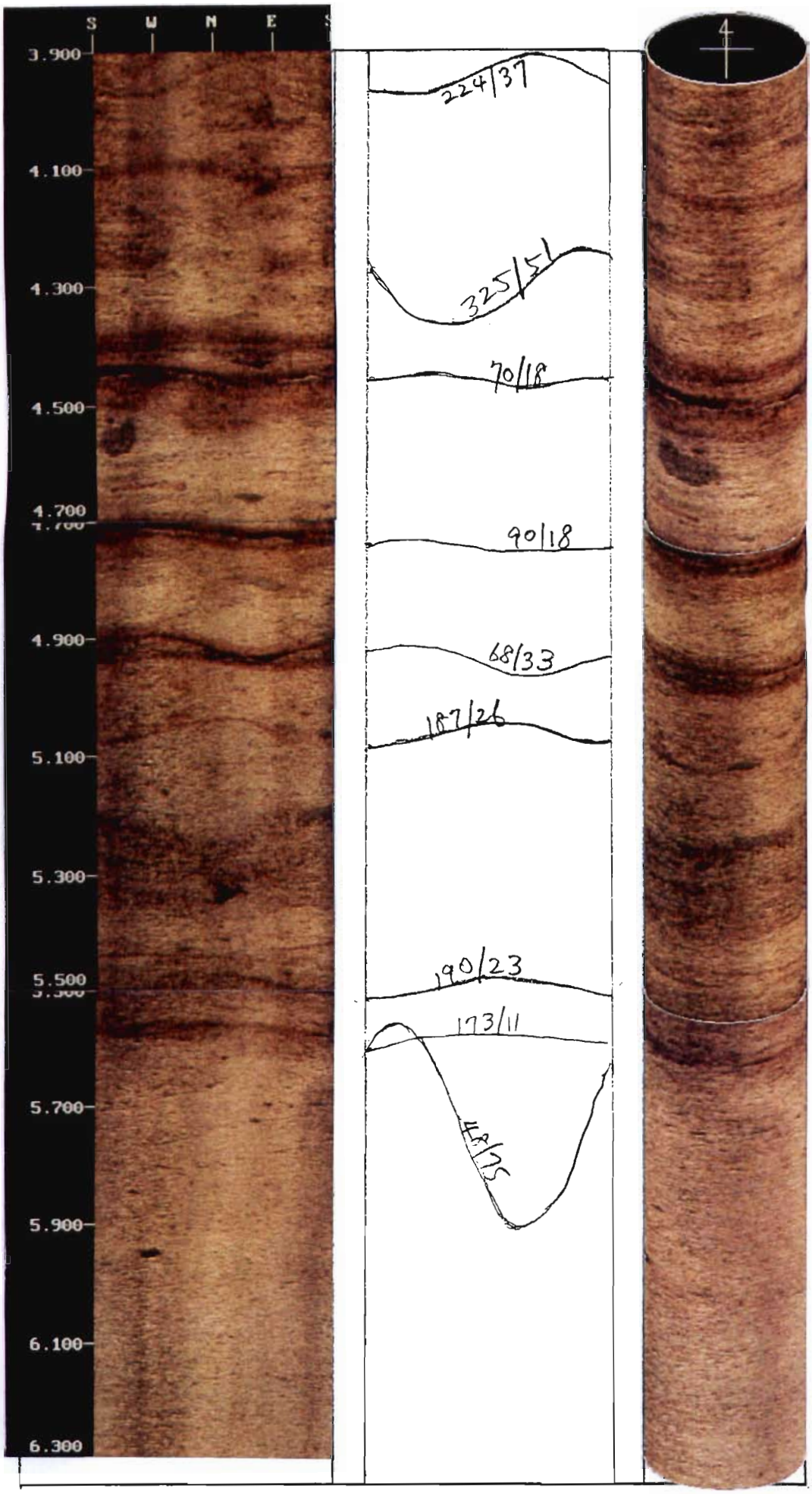

SOUTH EAST TRANSIT PROJECT

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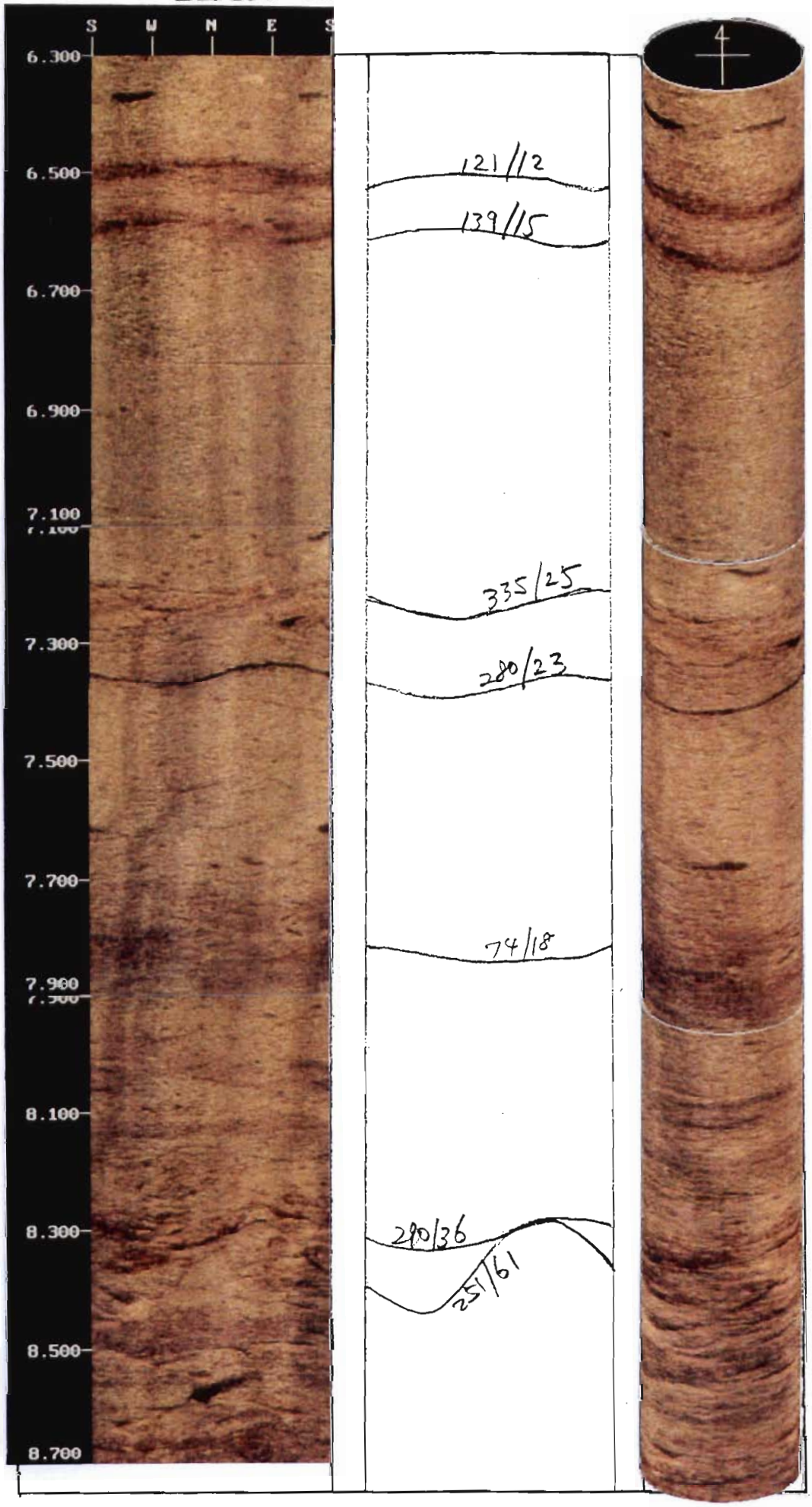

SOUTH EAST TRANSIT PROJECT
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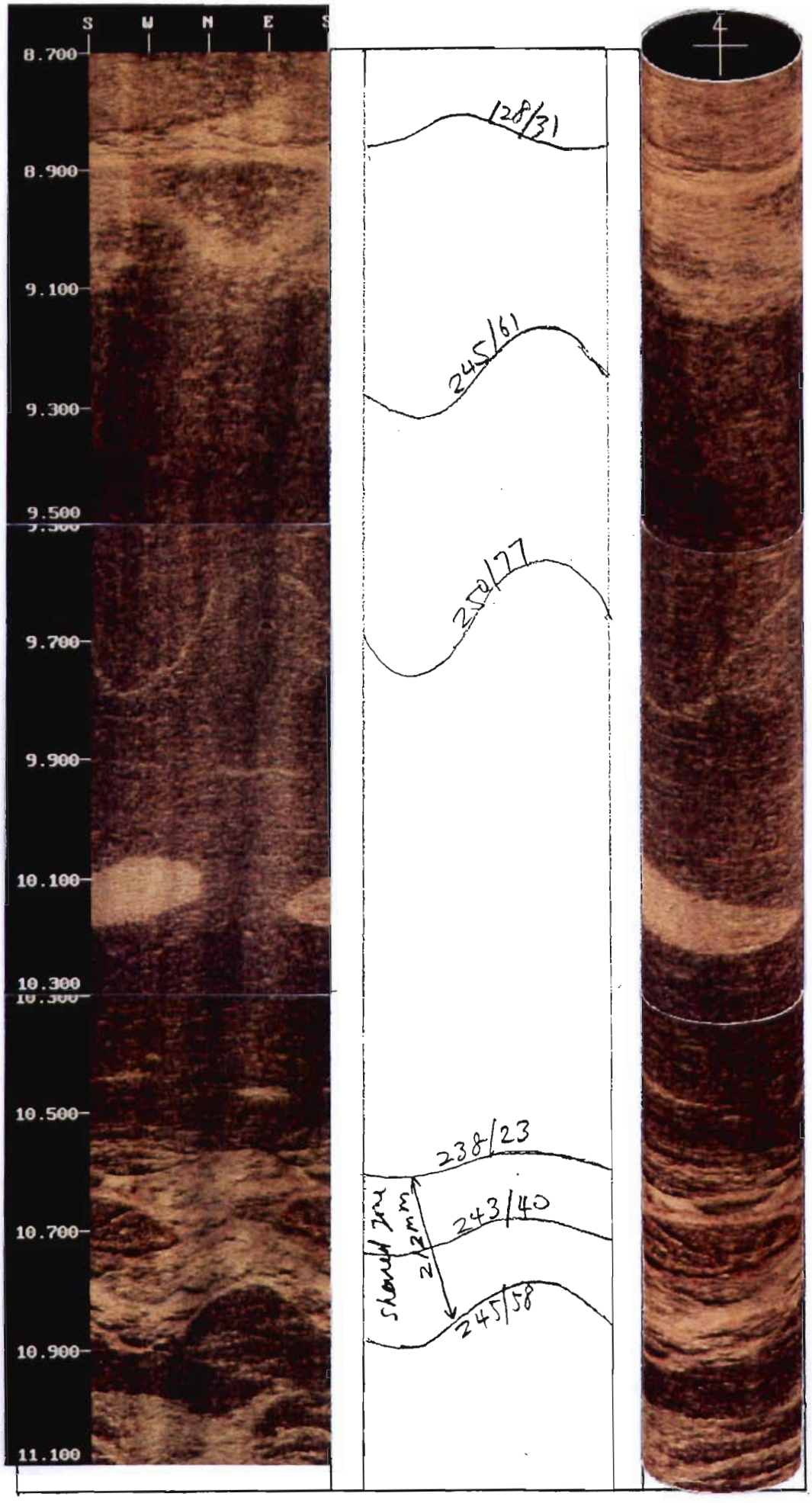

SOUTH EAST TRANSIT PROJECT

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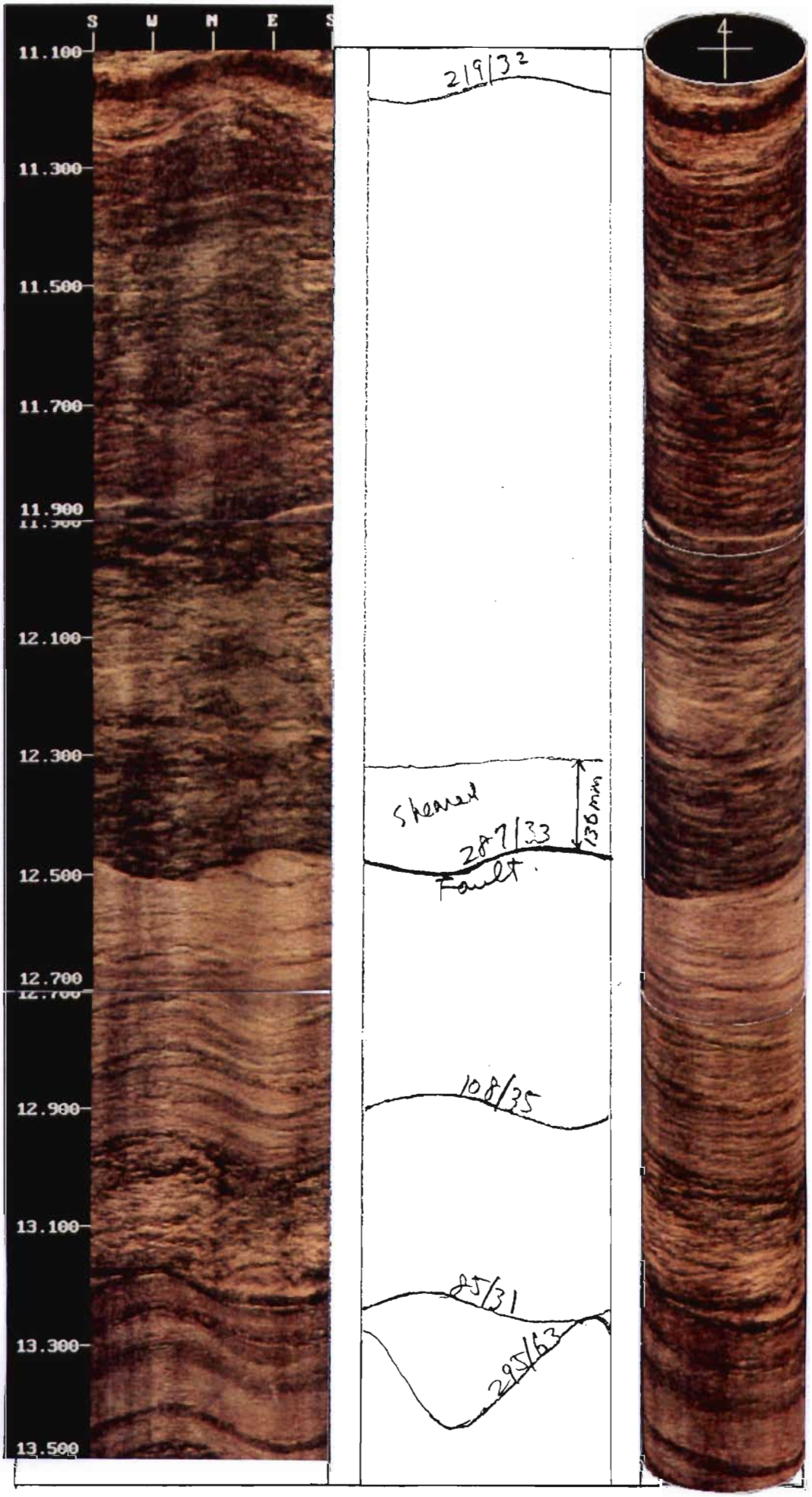

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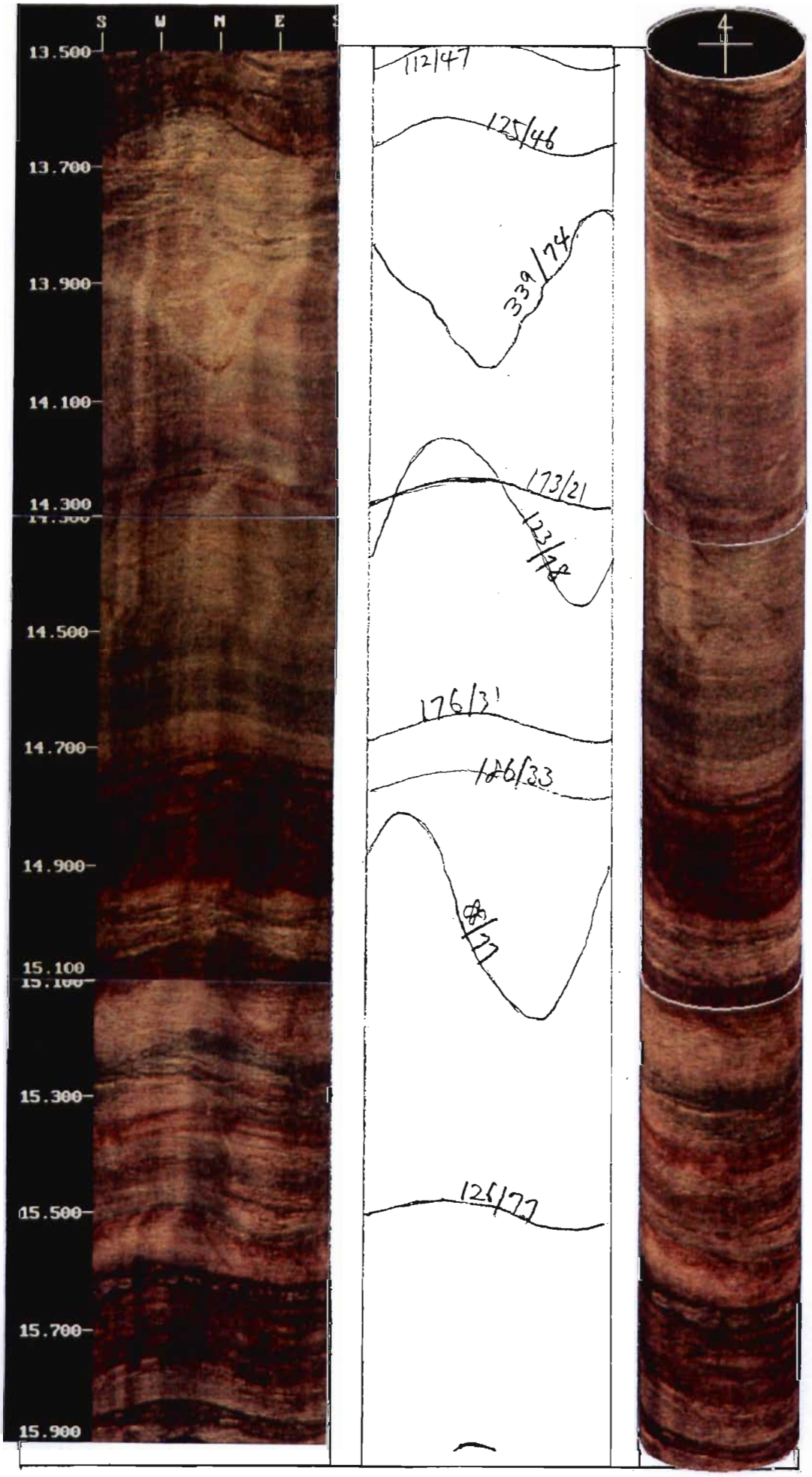

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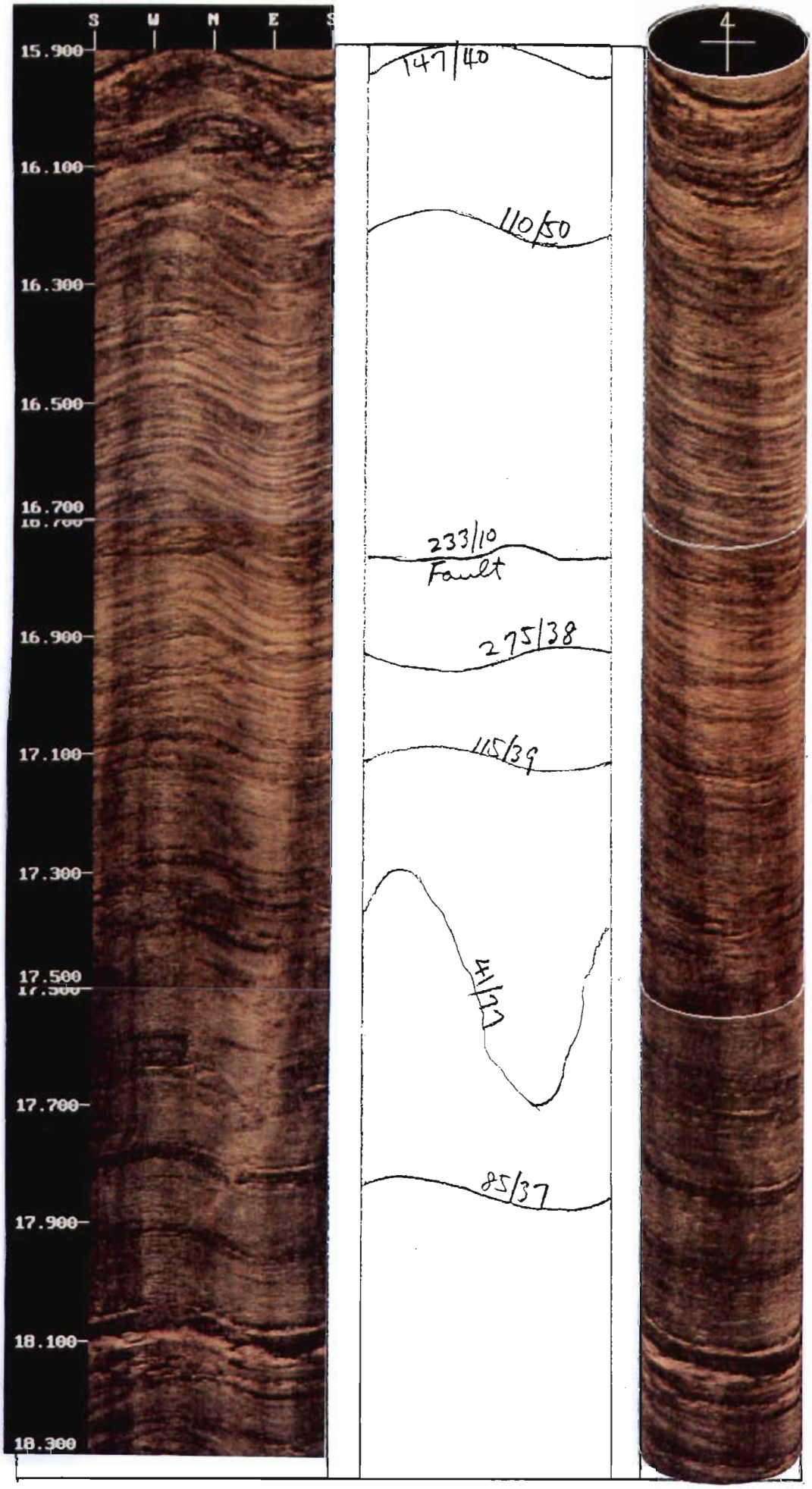

SOUTH EAST TRANSIT PROJECT

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