Reeves

COMPENSATED SONIC
1:500 TVD

COMPANY	ESSO AUSTRALIA PTY. LTD.
WELL	FLOUNDER A12a
FIELD	GIPPSLAND BASIN
PROVINCE/COUNTY	BASS STRAIT
COUNTRY/STATE	AUSTRALIA
LOCATION	5758709.11 m N, 625849.47 m E
	38°18'39.173" S, 148°26'21.833" E

LSD	SEC	TWP	RGE	Other Services
				DUAL LATEROLOG
API Number				PHOTO DENSITY
Permit Number				COMPENSATED NEUTRON

Permanent Datum MSL , Elevation 0 metres
Log Measured From RT@33.85 metres above Permanent Datum
Drilling Measured From RT

Elevations:

KB		metres
DF	33.85	metres
GL	-93.00	metres

Date	12-APR-2003			
Run Number	1			
Depth Driller	2636.40	metres		
Depth Logger	2637.40	metres		
First Reading	2636.90	metres		
Last Reading	1084.00	metres		
Casing Driller	754.70	metres		
Casing Logger	754.50	metres		
Bit Size	8.50	inches		
Hole Fluid Type	KCl/PHPA/GLY			
Density / Viscosity	9.90 lb/USg	68.00 sec/qt		
PH / Fluid Loss	9.40	2.50 ml/30Min		
Sample Source	FLOWLINE			
Rm @ Measured Temp	0.124 @ 25.0	ohm-m		
Rmf @ Measured Temp	0.113 @ 25.0	ohm-m		
Rmc @ Measured Temp	0.179 @ 25.0	ohm-m		
Source Rmf / Rmc	PRESS	PRESS		
Rm @ BHT	0.048 @100.0	ohm-m		
Time Since Circulation	17:45 HRS			
Max Recorded Temp	100.00	deg C		
Equipment Name	COMPACT			
Equipment / Base	1			
Recorded By	M.Barnes, R.Tench		G.McManus	
Witnessed By	E.Espiritu			
Circ.Stopped	08:00 11-APR			

BOREHOLE RECORD

Bit Size inches	Depth From metres	Depth To metres
8.500	0.00	2920.00

CASING RECORD

Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
K-55	10.750	0.00	856.25	40.50

REMARKS

DRILLING RIG: NABORS (ISDL) 453.

TOP OF WINDOW: 856.25m
TOP OF WHIPSTOCK: 856.75m
BTTM OF WINDOW: 863.25m

REEVES COMPACT WIRELINE TOOLS RUN ON SCHLUMBERGER UNIT.

MPD CALIPER AND MMR CALIPER ARE INDEPENDENT OF EACH OTHER, DUE TO SWIVALS ABOVE AND BELOW DENSITY/NEUTRON SECTION.

SPIKES IN DEEP LATEROLOG @ 2094m MD AND 2113m MD ARE INVALID.

HTHP: 11.2 ml/30 min @ Deg 121 deg C.

MAX DEVIATION: 53.8 DEGREES AT 2137.0 m.
DOGLEG AT 892 M, WITH DLS > 6.0 DEGREES/30 m.

REEVES CREW: M.BARNES, R.TENCH, G.MCMANUS.
SCHLUMBERGER CREW: B.GLOVER, B.TAYLOR, J.LIGHT, R.DEGROOT.

MAIN LOG B 1:500

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 26-MAY-2003 14:10
Filename: C:\Fla a12a\MAIN LOG B DSC.dta
Recorded on 12-APR-2003 04:49
System Configuration Dates: Logged 23-OCT-2002: Processed 23-OCT-2002: Plotted 23-OCT-2002:

Timing Marks every 60.0 sec

Borehole Corrected Gamma
API
0 100 200
200 300 400

Density Caliper
inches
6 11 16

Bit Size
inches
6 11 16

TVD in Metres

Borehole Temp in deg C

HVI every 0.1 cu m

Annular Integral every 0.1 cu m

Replay Scale 1:500

3-5' Compensated Sonic
microsec/metre
500 400 300 200 100

3' Transit Time
microseconds
1100 600 100

4' Transit Time
microseconds
1100 600 100

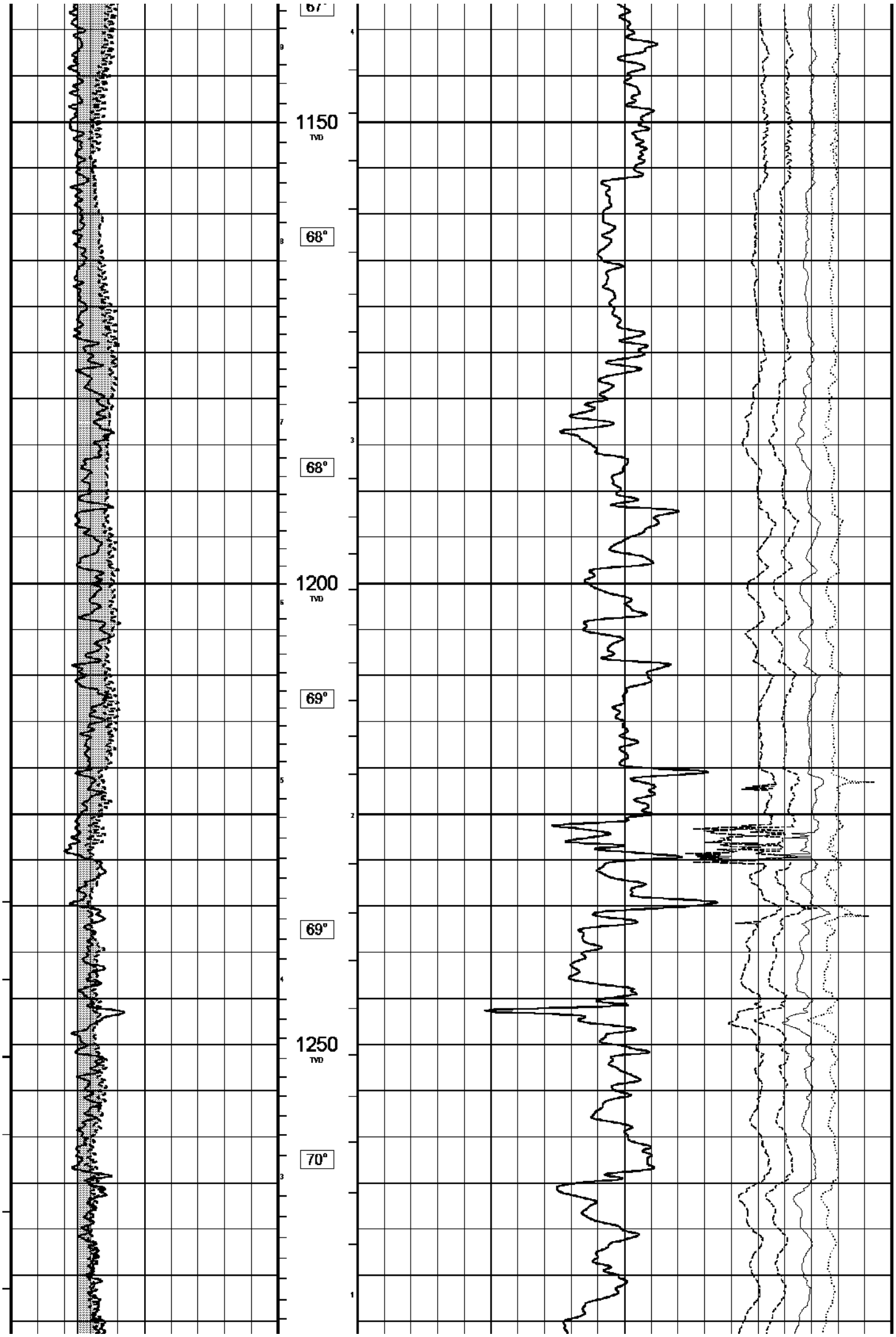
5' Transit Time
microseconds
1100 600 100

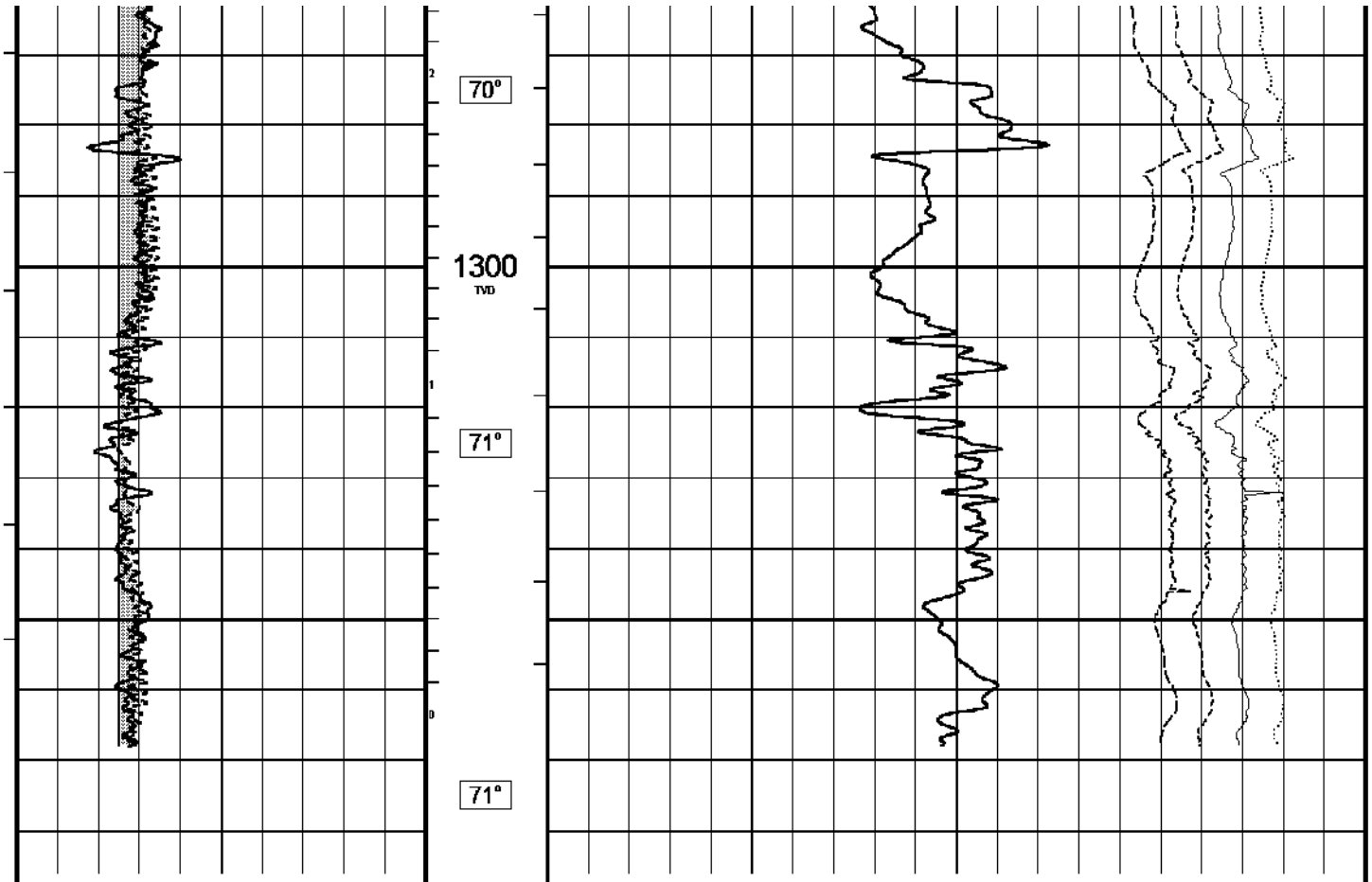
6' Transit Time
microseconds
1100 600 100

67°

1100 TVD

67°


1150
TVD
68°
68°
1200
TVD
69°
69°
1250
TVD
70°



TVD in Metres

3-5' Compensated Sonic
microsec/metre
500 400 300 200 100

Timing Marks every 60.0 sec

Borehole Temp in deg C

3' Transit Time
microseconds
1100 600 100

Borehole Corrected Gamma
API
0 100 200

HVI every 0.1 cu m
200 300 400

4' Transit Time
microseconds
1100 600 100

Density Caliper
inches
6 11 16

Annular Integral every 0.1 cu m

5' Transit Time
microseconds
1100 600 100

Bit Size
inches
6 11 16

Replay Scale 1:500

6' Transit Time
microseconds
1100 600 100

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 26-MAY-2003 14:10
Filename: C:\Fla a12a\MAIN LOG B DSC.dta
Recorded on 12-APR-2003 04:49
System Configuration Dates: Logged 23-OCT-2002: Processed 23-OCT-2002: Plotted 23-OCT-2002:

MAIN LOG B 1:500

MAIN LOG A 1:500

MAIN LOG A 1:500

Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\Fla a12a\MAIN LOG A DSC.dta
System Configuration Dates: Logged 23-OCT-2002 Processed 23-OCT-2002 Plotted 23-OCT-2002

Plotted on 26-MAY-2003 14:10
Recorded on 12-APR-2003 01:43

Timing Marks every 60.0 sec

Borehole Corrected Gamma
API
0 100 200
200 300 400

Density Caliper
inches
6 11 16

Bit Size
inches
6 11 16

TVD in Metres

Borehole Temp in deg C

HVI every 0.1 cu m

Annular Integral every 0.1 cu m

Replay Scale 1:500

3-5' Compensated Sonic
microsec/metre
500 400 300 200 100

3' Transit Time
microseconds
1100 600 100

4' Transit Time
microseconds
1100 600 100

5' Transit Time
microseconds
1100 600 100

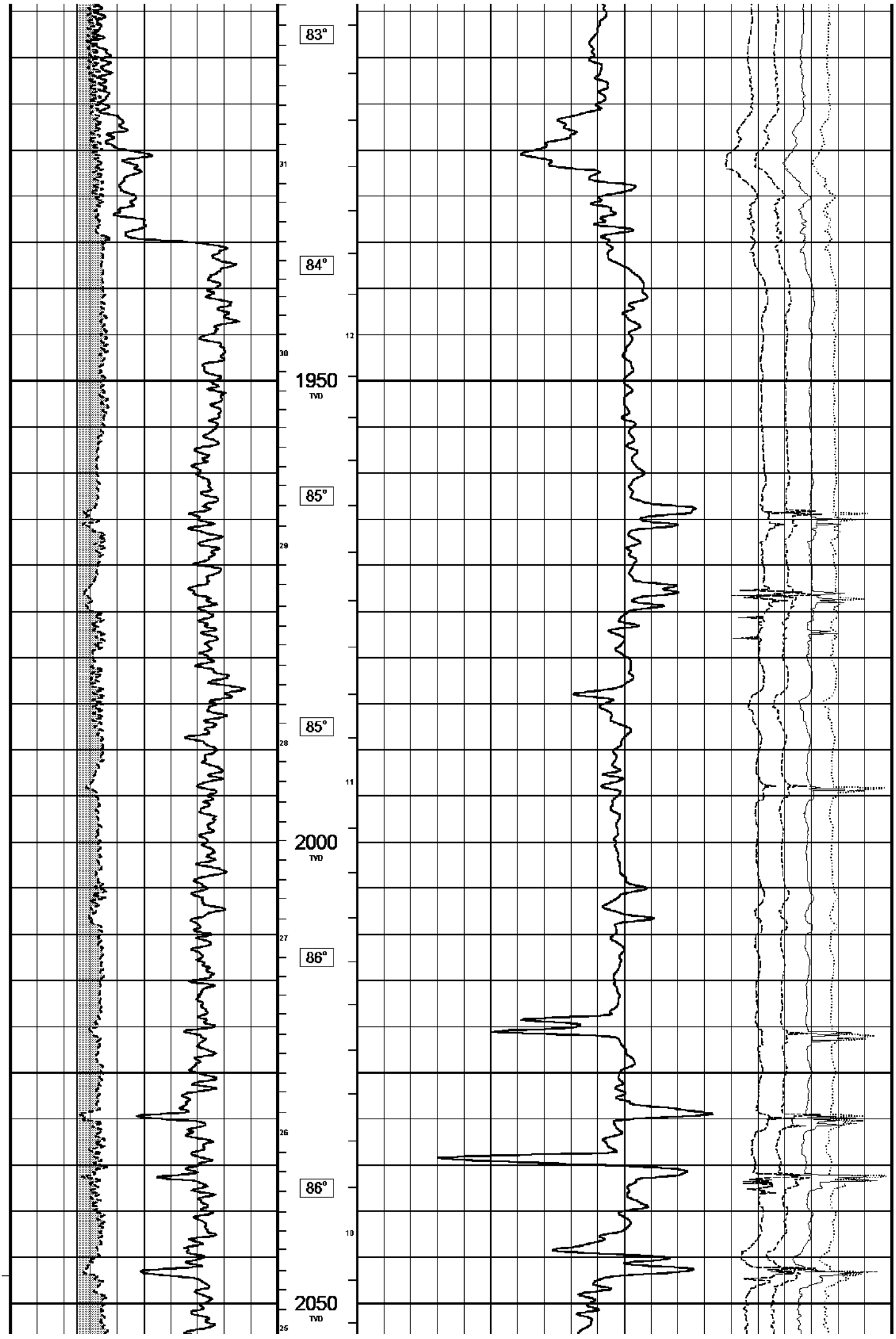
6' Transit Time
microseconds
1100 600 100

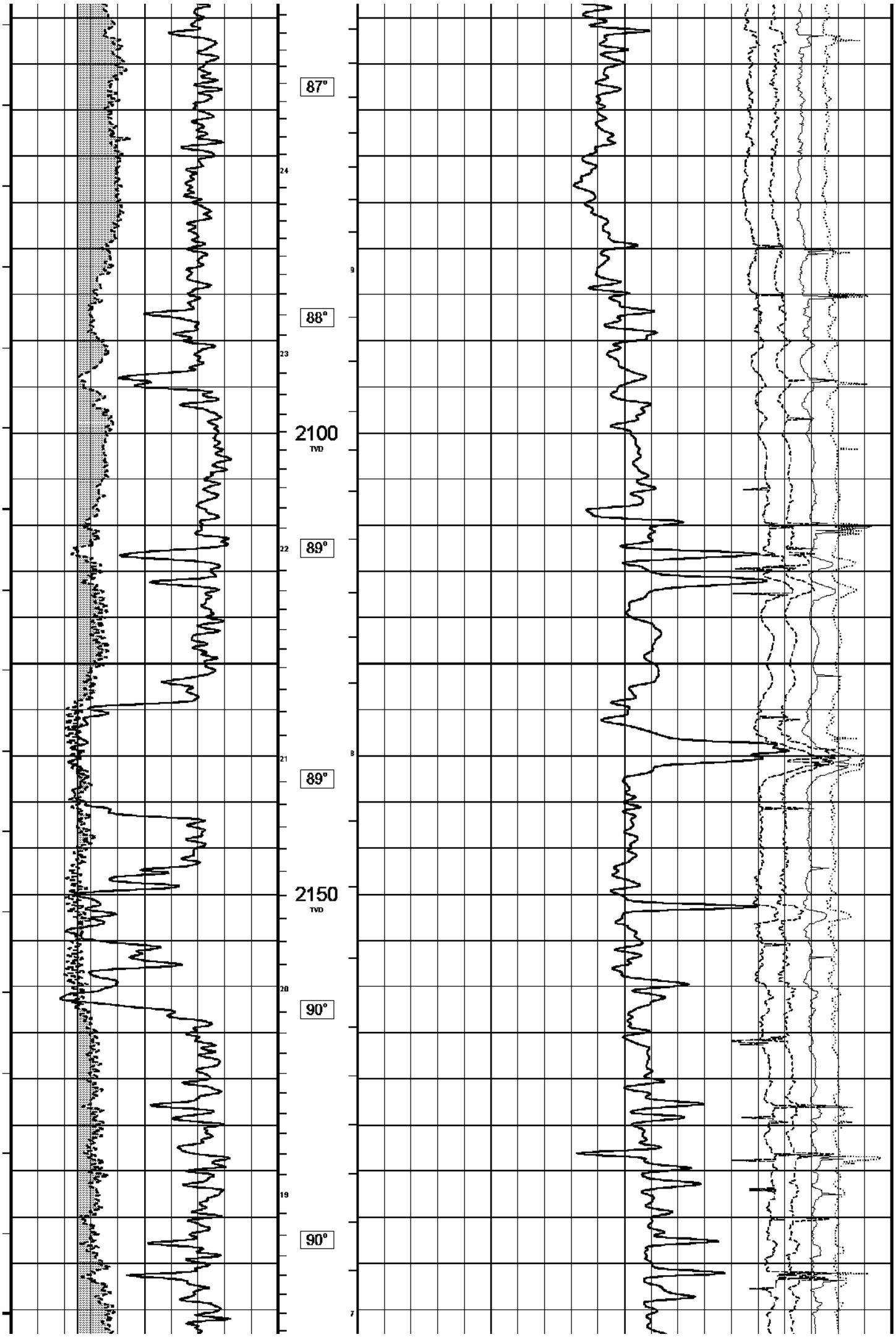
1850 TVD

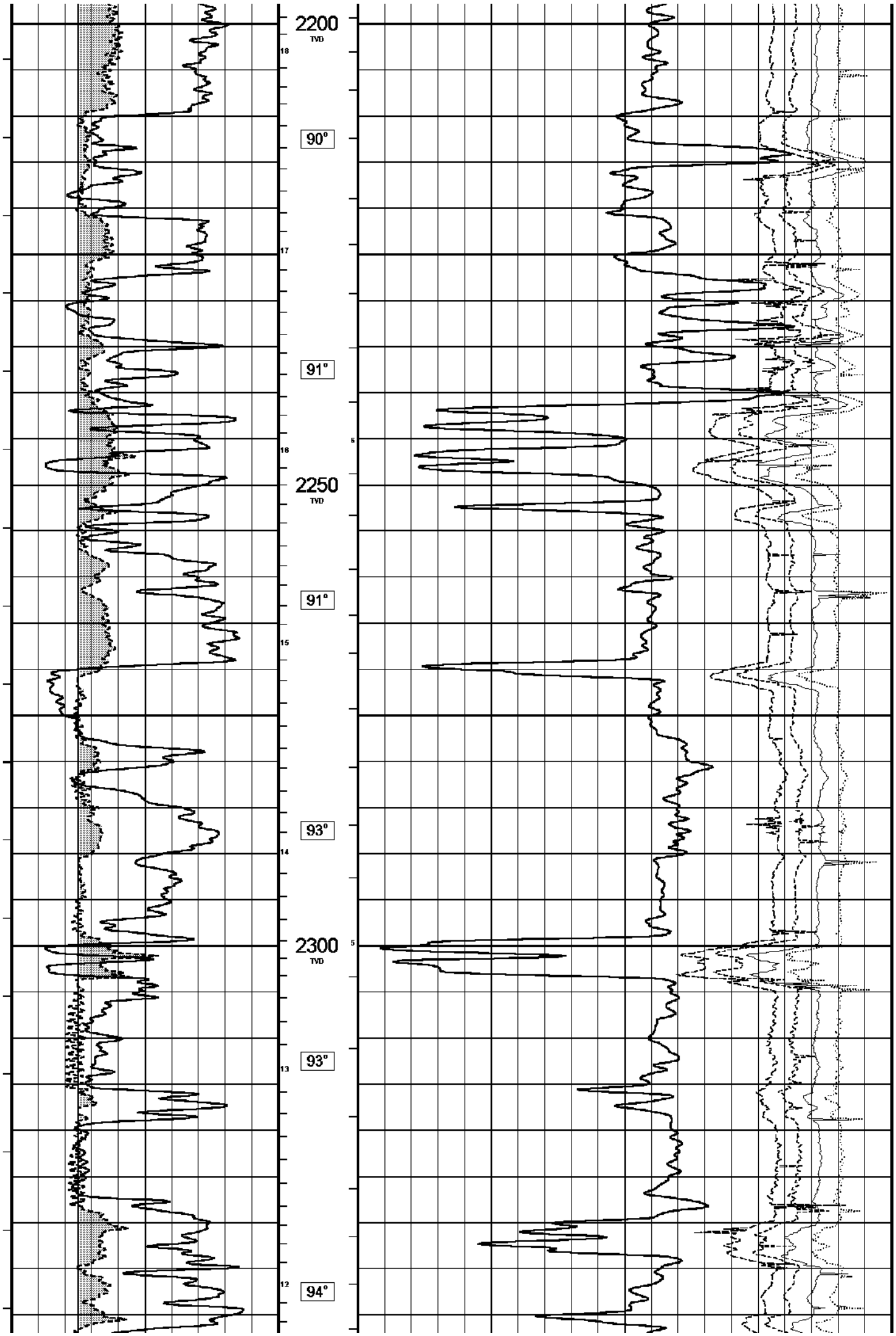
82°

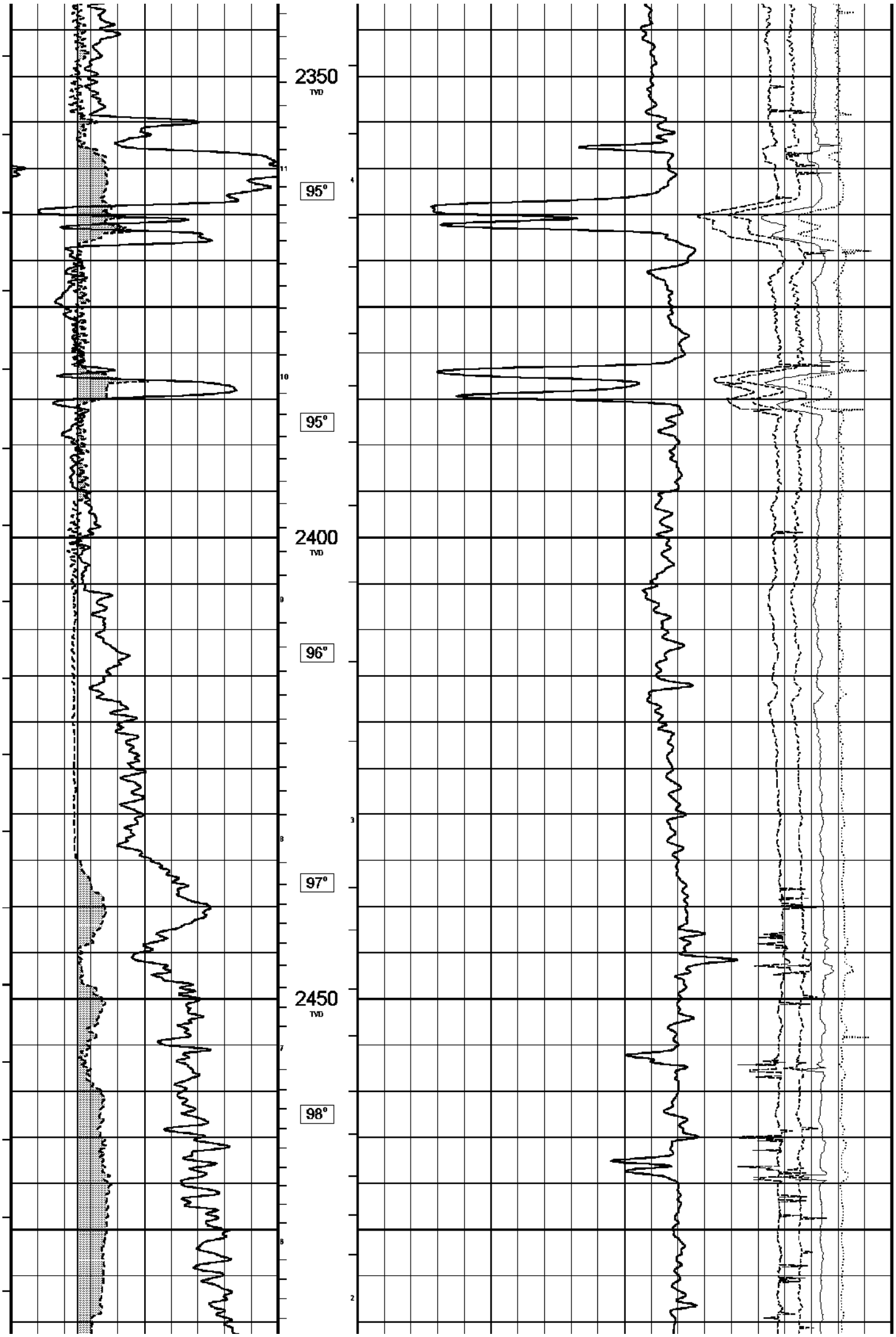
83°

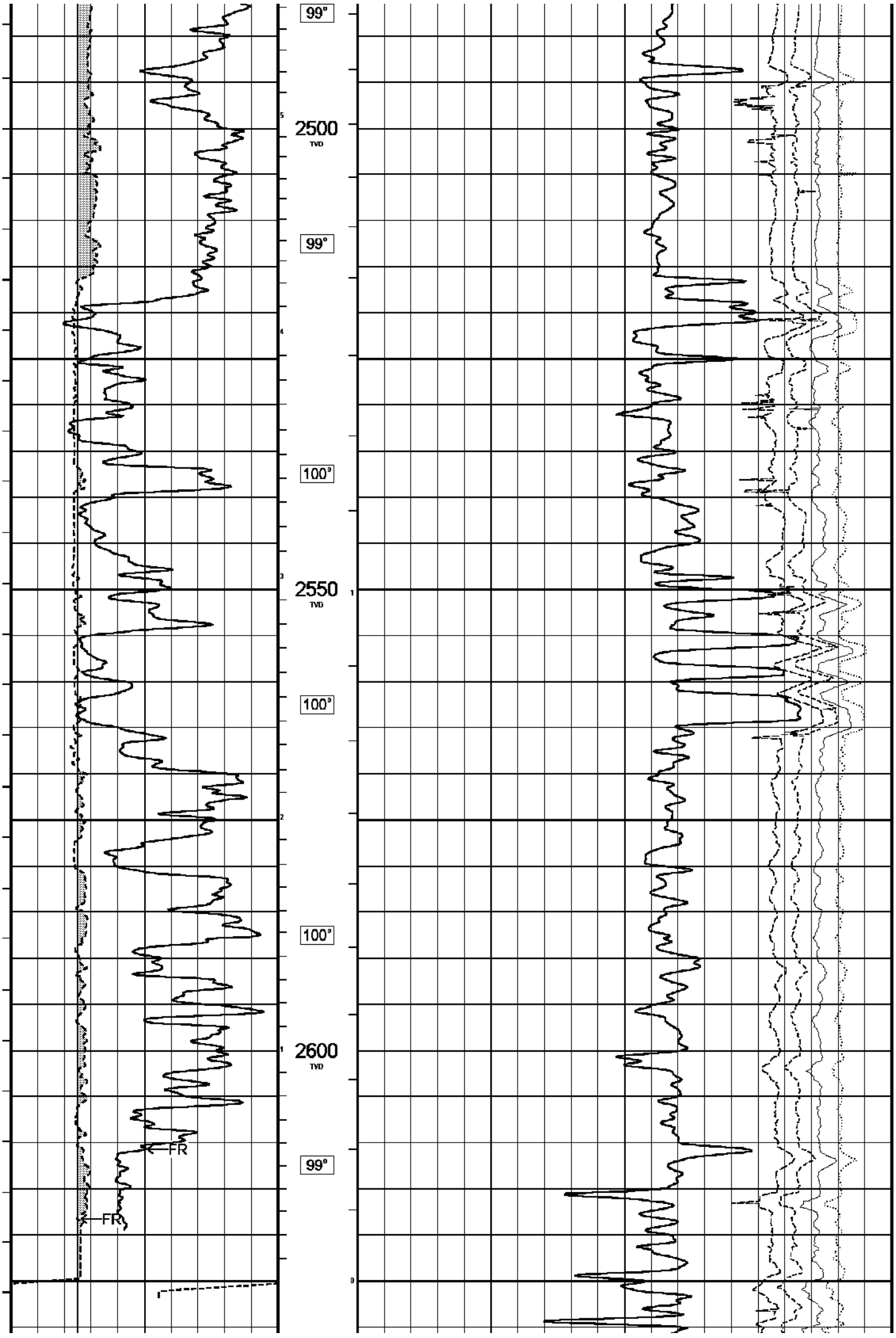
1900 TVD

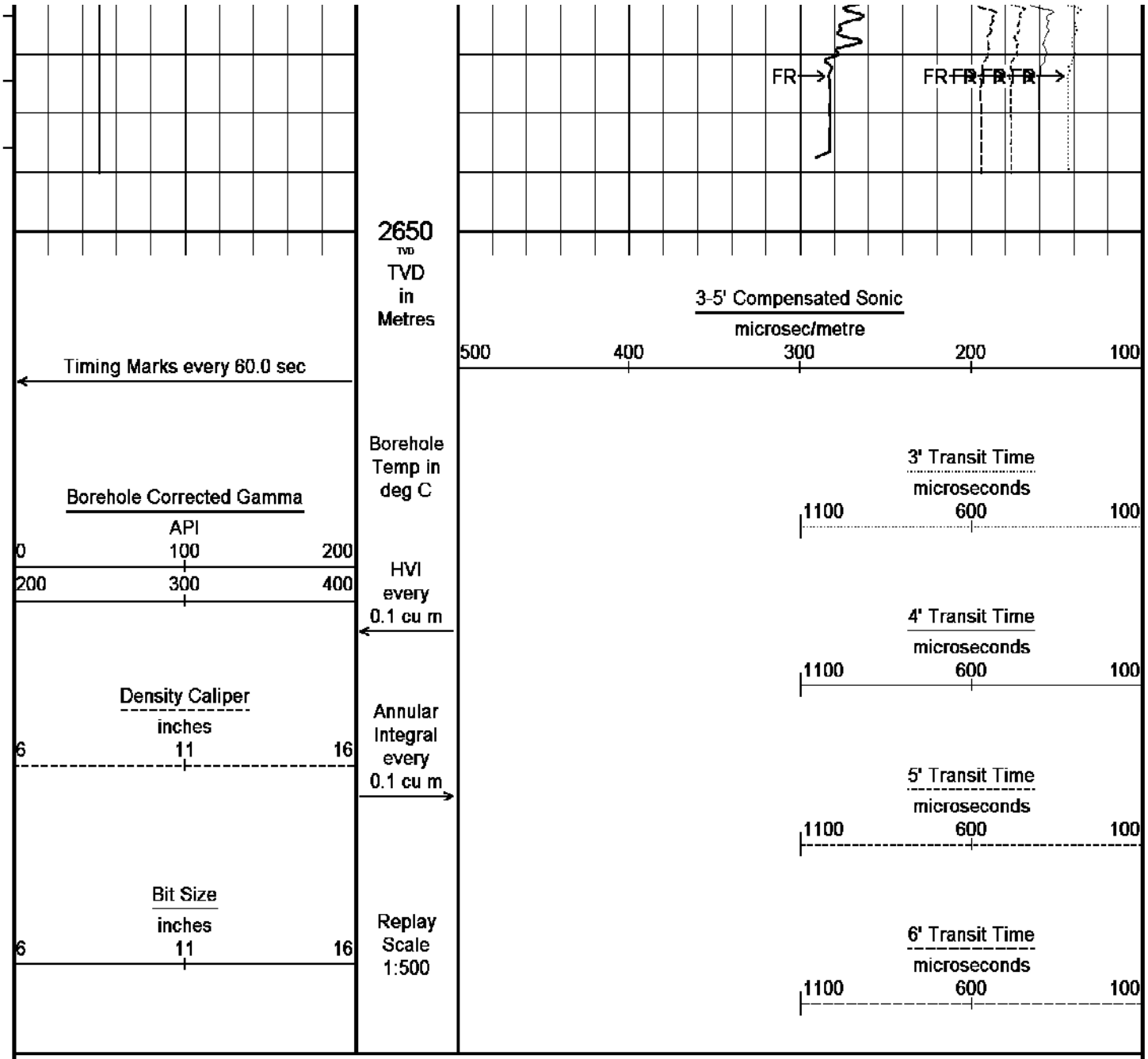

83°
84°
1950
TVD
85°
85°
2000
TVD
86°
86°
2050
TVD


87°
88°
2100
TVD
89°
89°
2150
TVD
90°
90°


2200
TVD
90°
91°
2250
TVD
91°
93°
2300
TVD
93°
94°


2350
TVD
95°
95°
2400
TVD
96°
97°
2450
TVD
98°


99°
2500
TVD
99°
100°
2550
TVD
100°
100°
2600
TVD
99°
FR
FR

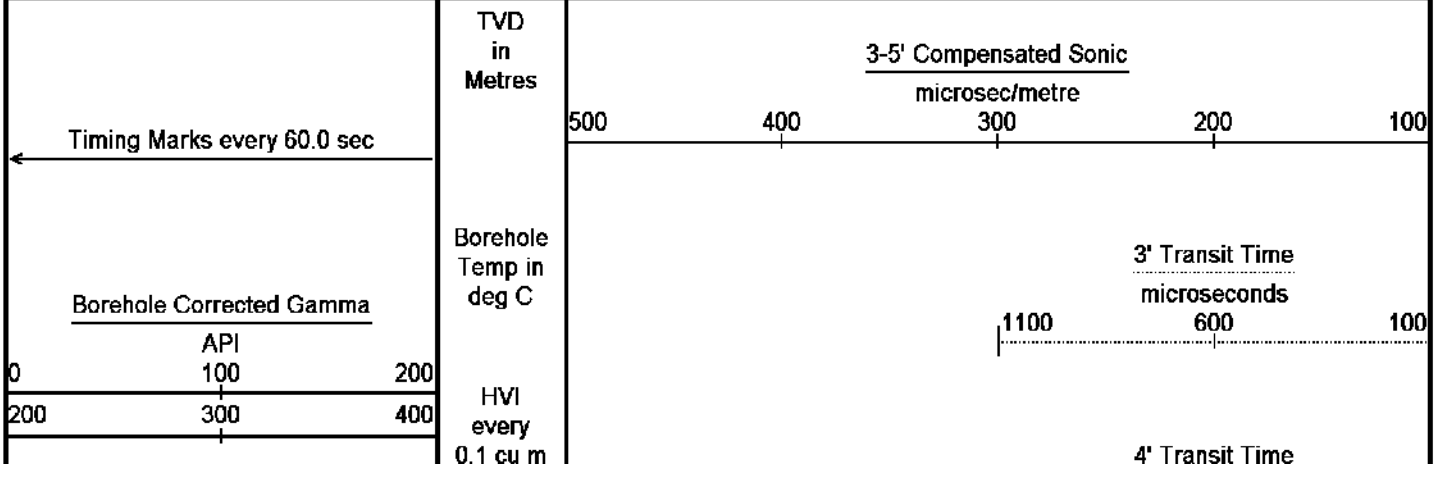


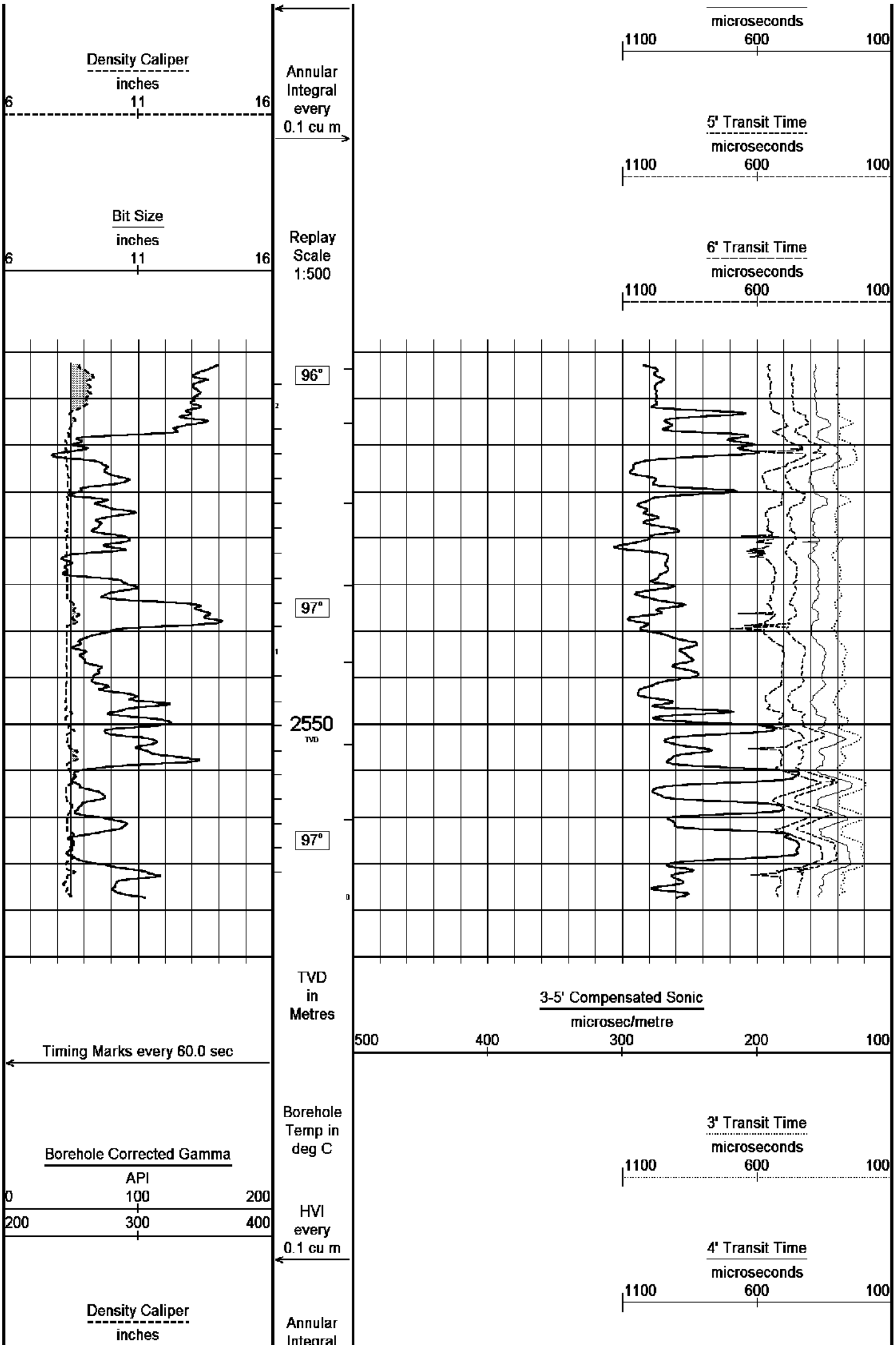
Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 26-MAY-2003 14:10
Filename: C:\Fla a12a\MAIN LOG A DSC.dta — Recorded on 12-APR-2003 01:43
System Configuration Dates: Logged 23-OCT-2002: Processed 23-OCT-2002: Plotted 23-OCT-2002:

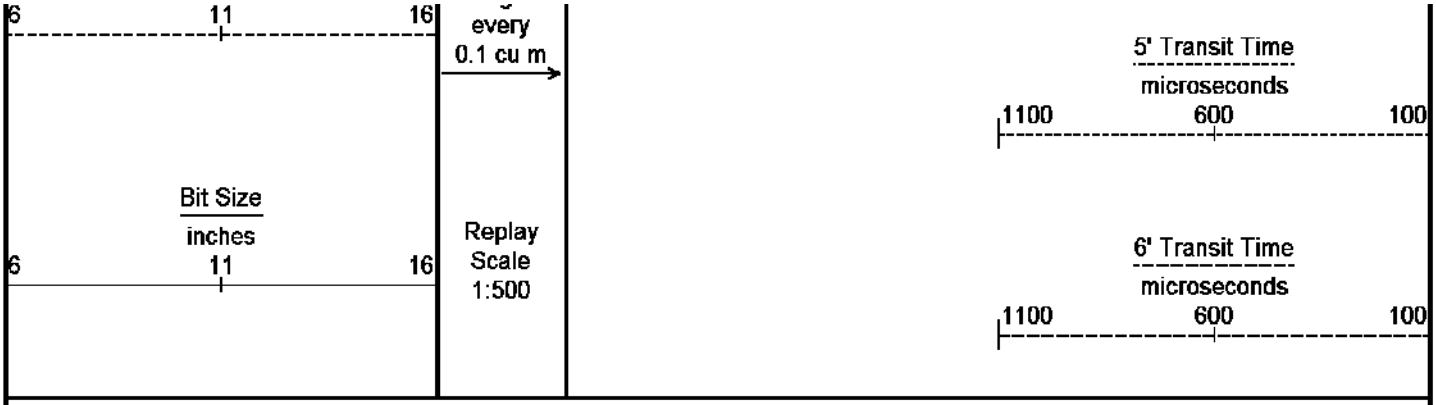
MAIN LOG A 1:500

REPEAT SECTION 1:500

Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 26-MAY-2003 14:10
Filename: C:\Fla a12a\REPEAT SECTION DSC.dta — Recorded on 12-APR-2003 01:08
System Configuration Dates: Logged 23-OCT-2002: Processed 23-OCT-2002: Plotted 23-OCT-2002:




Density Caliper
inches
6
11
16
Annular Integral every 0.1 cu m
microseconds
1100
600
100
5' Transit Time
microseconds
1100
600
100
Bit Size
inches
6
11
16
Replay Scale 1:500
6' Transit Time
microseconds
1100
600
100
96°
97°
2550
TVD
97°
TVD in Metres
3-5' Compensated Sonic
microsec/metre
500
400
300
200
100
Timing Marks every 60.0 sec
Borehole Temp in deg C
3' Transit Time
microseconds
1100
600
100
Borehole Corrected Gamma
API
0
100
200
200
300
400
HVI every 0.1 cu m
4' Transit Time
microseconds
1100
600
100
Density Caliper
inches
Annular Integral



Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 26-MAY-2003 14:10
Filename: C:\Fla a12a\REPEAT SECTION DSC.dta — Recorded on 12-APR-2003 01:08
System Configuration Dates: Logged 23-OCT-2002: Processed 23-OCT-2002: Plotted 23-OCT-2002:

REPEAT SECTION 1:500

BEFORE SURVEY CALIBRATION

C:\Fla a12a\MAIN LOG A DSC.dta

General Constants All 000

General Parameters		
Mud Resistivity	0.05	ohm-metres
Mud Resistivity Temperature	100.00	degrees C
Water Level	0.00	metres
Density/Neutron Processing	Wet Hole	
Hole/Annular Volume and Differential Caliper Parameters		
HVOL Caliper 1	Density Caliper	
HVOL Caliper 2	Density Caliper	
Annular Volume Diameter	7.00	inches
Caliper for Differential Caliper	Density Caliper	
Rwa Parameters		
Porosity used	Limestone Sonic Porosity	
Resistivity used	Deep Laterolog	
RWA Constant A	0.61	
RWA Constant M	2.15	

Gamma Calibration MCG 076

Field Calibration on 7-APR-2003,14:34

	Measured	Calibrated (API)
Background	16	10
Calibrator (Gross)	1432	919
Calibrator (Net)	1416	909

Gamma Constants MCG 076

Gamma Calibrator Number	60	
Mud Density	1.19	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

High Resolution Temperature Calibration MCG 076

Field Calibration on 19-FEB-2003,09:40

	Measured	Calibrated(Deg C)
Lower	0.00	0.00
Upper	100.00	100.00

High Resolution Temperature Constants MCG 076

Pre-filter Length	11

Caliper Calibration MPD 067

Base Calibration on 12-APR-2003,03:34
Field Calibration on

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	14809	4.61
2	24384	6.59
3	34204	8.50

4	44327	10.54
5	55504	12.61
6	N/A	N/A

Field Calibration

0	0
0.00	0.00

Sonic Constants MSS 028

Maximum Boundary Contrast	328.08	micro-sec/m
Fluid Transit Time	620.08	micro-sec/m
Limestone Transit Time	155.84	micro-sec/m
Sandstone Transit Time	182.09	micro-sec/m
Dolomite Transit Time	142.72	micro-sec/m
Sonic used for Porosities	3-5' Compensated Sonic	
Correction for Sonde Skew	Applied	
Cycle Stretch Algorithm	Applied	
MN3FT	N/A	micro-sec
MX3FT	N/A	micro-sec

Fixed Gate Parameters

Start Time (micro-sec)	End Time (micro-sec)	Discriminator (mV)	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	

Down Hole Fixed Gate Parameters

Gate Start	N/A	micro-sec
Gate Width	N/A	micro-sec

Full Waveform Parameters

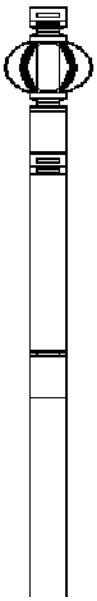
Use derived TR for 3' Waveform	N/A	
Use derived TR for 4' Waveform	N/A	
Use derived TR for 5' Waveform	N/A	
Use derived TR for 6' Waveform	N/A	
3' Waveform Discriminator Level	N/A	mV
4' Waveform Discriminator Level	N/A	mV
5' Waveform Discriminator Level	N/A	mV
6' Waveform Discriminator Level	N/A	mV
3' Waveform Filter	N/A	
4' Waveform Filter	N/A	
5' Waveform Filter	N/A	
6' Waveform Filter	N/A	

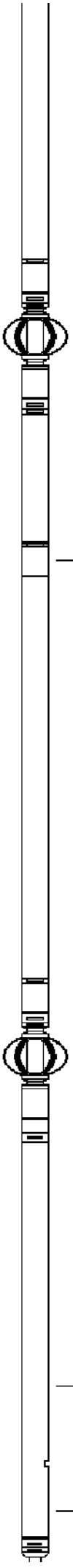
DOWNHOLE EQUIPMENT

All measurements relative to tool zero.

Compact Inline Standoff B
MIS 52 Length: 0.65 m Weight: 15.43 lb

Compact Stiff Bridle Electrode Sub.
MBE 9 Length: 3.76 m Weight: 94.80 lb





Compact Inline Standoff B
MIS 77 Length: 0.65 m Weight: 15.43 lb

Compact Stiff Bridle Electrode Sub.
MBE 5 Length: 3.76 m Weight: 94.80 lb

31.84 m SPDL - Spontaneous Potential

Compact Inline Standoff B
MIS 31 Length: 0.65 m Weight: 15.43 lb

Compact Gamma
MCG 76 Length: 2.65 m Weight: 63.93 lb

26.85 m GGCE - Borehole Corrected Gamma

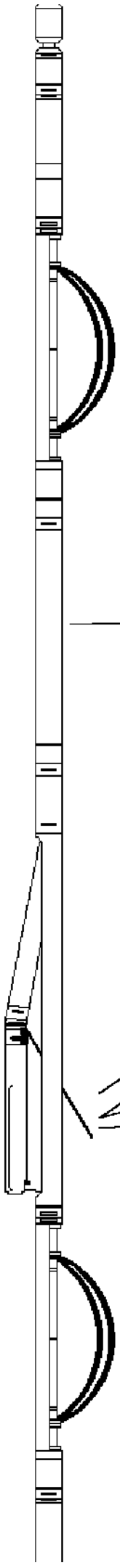
25.96 m CGXT - MCG External Temperature

Compact Knuckle Joint
SKJ 46 Length: 0.66 m Weight: 24.25 lb

Compact Swivel Head Adaptor
SHA 27 Length: 0.83 m Weight: 26.46 lb

Compact Inline Bowspring A
MIS 24 Length: 1.74 m Weight: 33.07 lb

Compact Neutron
MDN 69 Length: 1.53 m Weight: 50.71 lb



Compact Density/Caliper
MPD 67 Length: 2.92 m Weight: 90.39 lb

Compact Inline Bowspring A
MIS 25 Length: 1.74 m Weight: 33.07 lb

Compact Swivel Head Adaptor
SHA 28 Length: 0.83 m Weight: 26.46 lb

Compact Knuckle Joint
SKJ 45 Length: 0.66 m Weight: 24.25 lb

Compact Inline Standoff B
MIS 53 Length: 0.65 m Weight: 15.43 lb

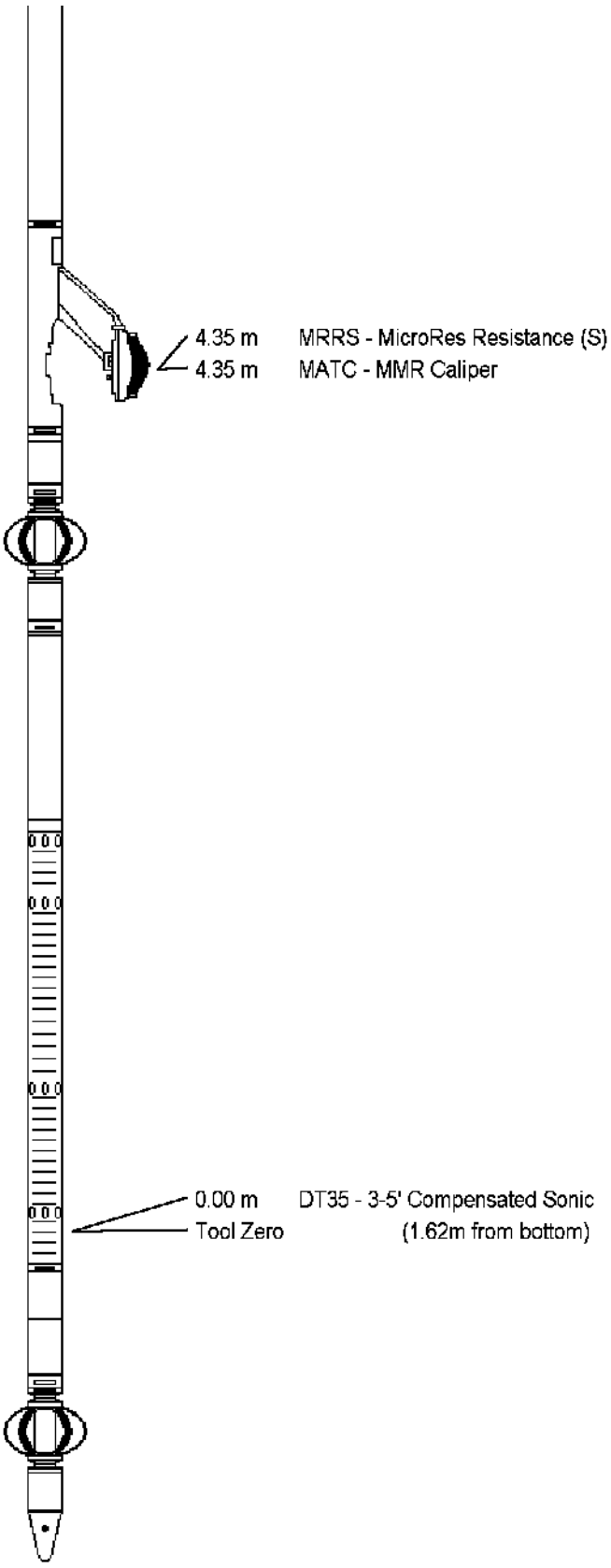
Compact Upper Guard Sub.
MUG 17 Length: 2.74 m Weight: 68.34 lb

Compact Inline Standoff B
MIS 49 Length: 0.65 m Weight: 15.43 lb

Compact Laterolog Electrode Sub.
MLE 15 Length: 3.76 m Weight: 92.59 lb

8.93 m DSLL - Shallow Laterolog
8.93 m DGLL - Deep Laterolog

Compact Inline Standoff B
MIS 76 Length: 0.65 m Weight: 15.43 lb



COMPANY	ESSO AUSTRALIA PTY. LTD.
WELL	FLOUNDER A12a
FIELD	GIPPSLAND BASIN
PROVINCE/COUNTY	BASS STRAIT
COUNTRY/STATE	AUSTRALIA

Elevation Kelly Bushing		metres	First Reading	2636.90	metres
Elevation Drill Floor	33.85	metres	Depth Driller	2636.40	metres
Elevation Ground Level	-93.00	metres	Depth Logger	2637.40	metres

Reeves

COMPENSATED SONIC

1:500 TVD