



Compact

COMPENSATED SONIC

1:500 TVD

COMPANY	ESSO AUSTRALIA PTY LTD			
WELL	BREAM A19A			
FIELD	BREAM			
PROVINCE/COUNTRY	BASS STRAIT			
COUNTRY/STATE	AUSTRALIA			
LOCATION	S 38 29 58.893, E 147 46 19.968 N 5738458.220 m, E 567336.120 m			
LSD	SEC	TWP	RGE	Other Services
API Number	DUAL LATEROLOG			
Permit Number	PHOTO DENSITY			
Permanent Datum MSL	, Elevation 0.0 metres			
Log Measured From RT @ 32.82 M	above Permanent Datum			
Drilling Measured From RT	COMPENSATED NEUTRON			
Date	30-Nov-2005			
Run Number	ONE			
Depth Driller	2020.90 metres			
Depth Logger	2017.60 metres			
First Reading	2007.20 metres			
Last Reading	973.00 metres			
Casing Driller	973.00 metres			
Casing Logger	973.00 metres			
Bit Size	8.50 inches			
Hole Fluid Type	KCL/GYL/POLY			
Density / Viscosity	10.15 lb/USg 62.00 CP			
PH / Fluid Loss	9.00 2.60			
Sample Source	FLOWLINE			
Rm @ Measured Temp	0.228 @ 25.0 ohm-m			
Rmf @ Measured Temp	0.091 @ 25.0 ohm-m			
Rmc @ Measured Temp	0.359 @ 25.0 ohm-m			
Source Rmf / Rmc	PRESS PRESS			
Rm @ BHT	0.119 @ 67.5 ohm-m			
Time Since Circulation	27.5 HOURS			
Max Recorded Temp	70.60 deg C			
Equipment Name	5" CWS/CML			
Equipment / Base	1 SALE			
Recorded By	R. TENCH, B. MOSS			
Witnessed By	TREVOR LOBO			
CIRC STOPPED	00:15 29/NOV			

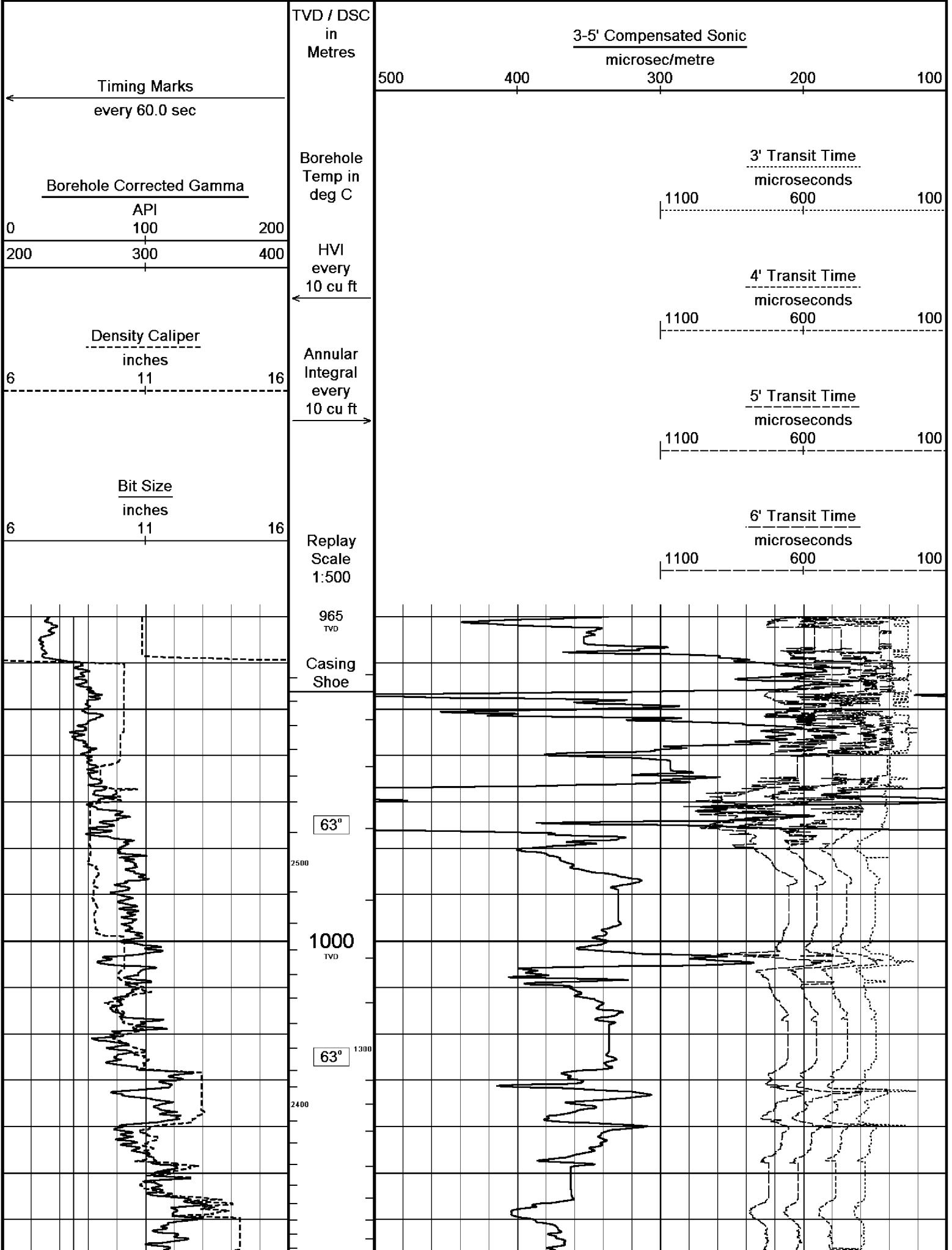
BOREHOLE RECORD				
Bit Size inches		Depth From metres		Depth To metres
8.500		1434.00		2804.00
CASING RECORD				
Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
K-55	10.750	0.00	1434.00	40.50

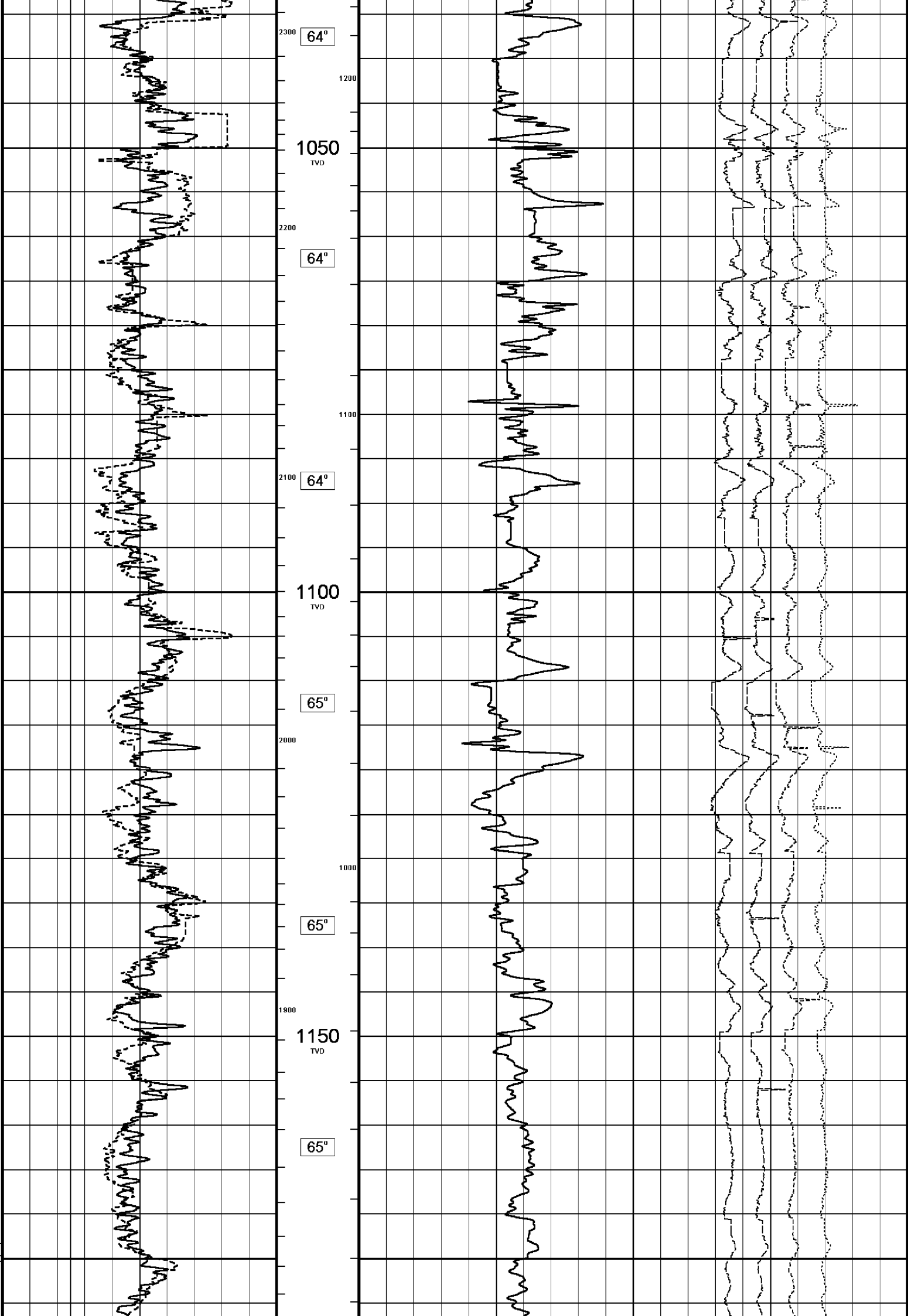
REMARKS
RIG: NABORS 453
5" SHUTTLE/MEMORY COMPACT OPERATION. CREW: R TENCH , B MOSS , B GOODWIN, M KOLCZE.
FIELD FINAL LOGS TO BE CORRELATED TO ANADRILL GAMMA LOG. FIELD FINALS REQUIRE CORRECTION TO TIME DEPTH CORRELATION ABOVE 1800mMD.
BRIDGED OF AT 2786mMD ON TRIP IN, REQUIRED 60RPM AND 10BBL/MIN TO ALLOW PIPE TO BE WASHED TO TD.
MAX. TEMPERATURE: 70.6 DEG C AT 2379m MD MAX. INCLINATION: 60.56 DEG AT 1478.37m MD MAX. DOGLEG SERVERITY: 6.78DEG/30m AT 1478.37m MD DEPLOYMENT ANGLE: 32.90DEG
HVOL: 2524 FT^3 AVOL: 1346 FT^3

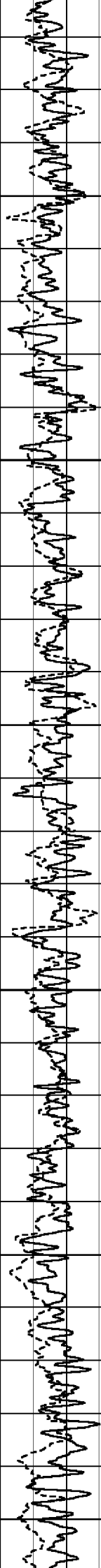
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\logs\BMA_A19A\FIELD DATA\BMA_A19A_MSS.dta
System Configuration Dates: Logged 17-JUN-2004: Processed 17-JUN-2004: Plotted 17-JUN-2004:

Plotted on 30-NOV-2005 21:52
Recorded on 30-NOV-2005 14:16







1800
1200
1700
1250
1600
1300
1500

65°

900

1200
TVD

66°

66°

1250
TVD

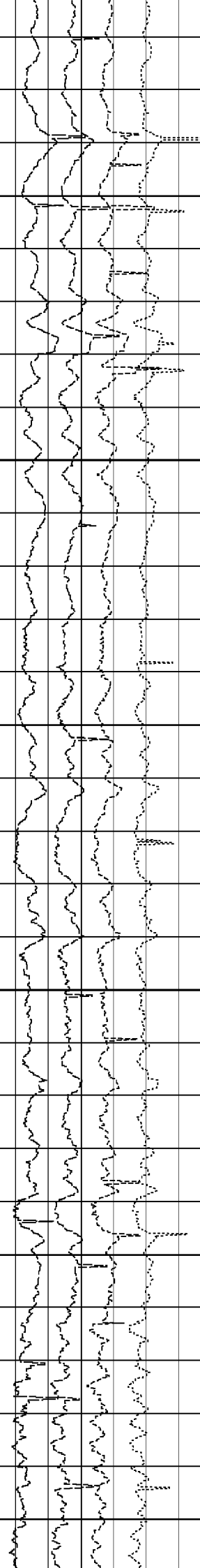
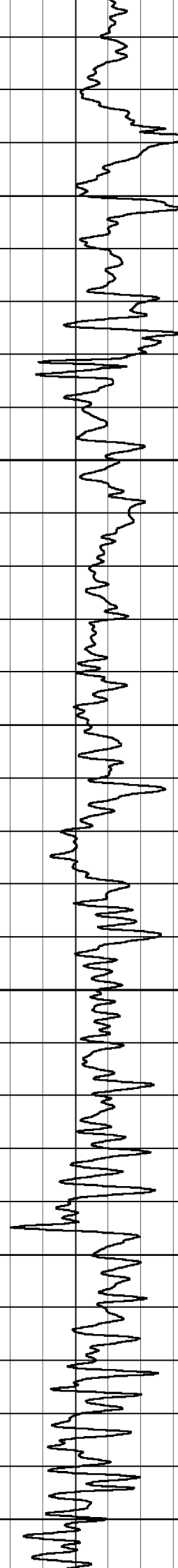
66°

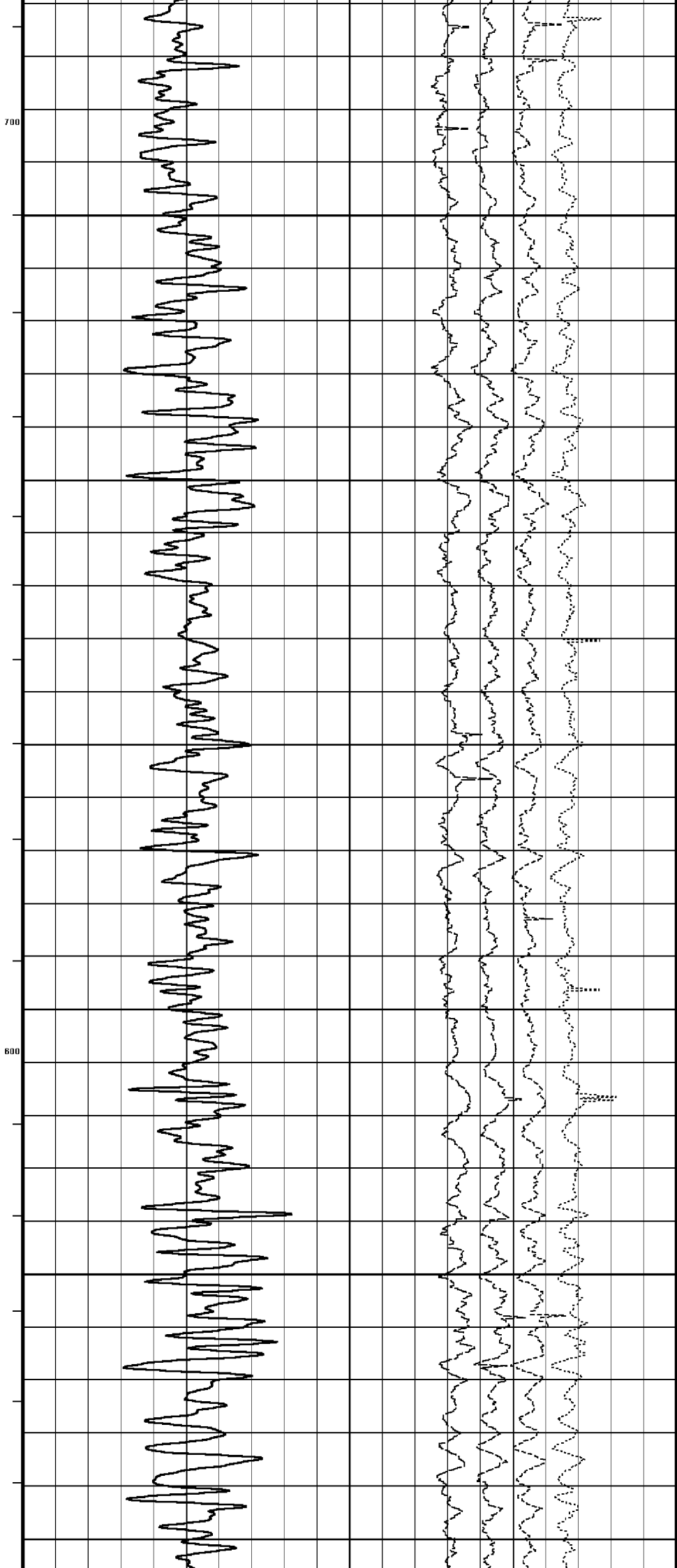
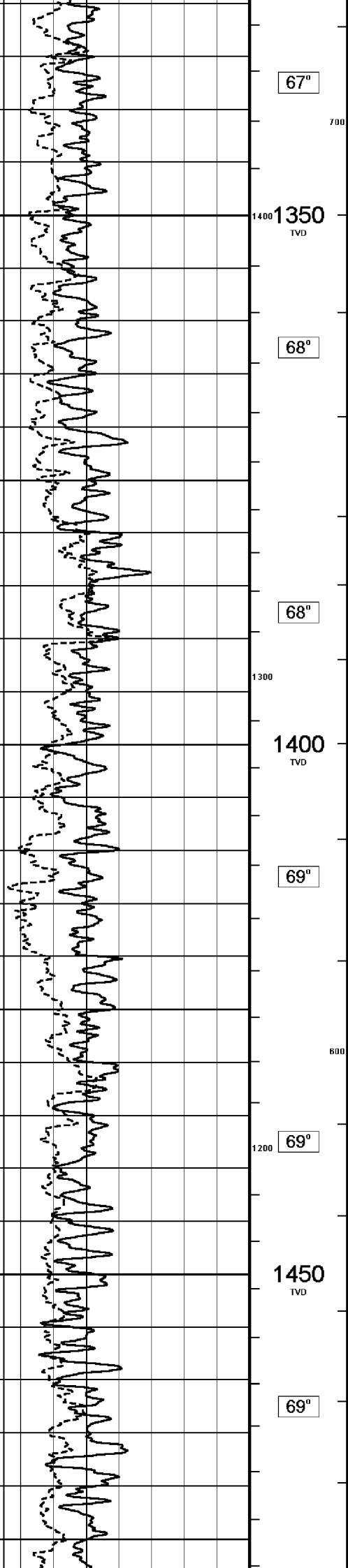
800

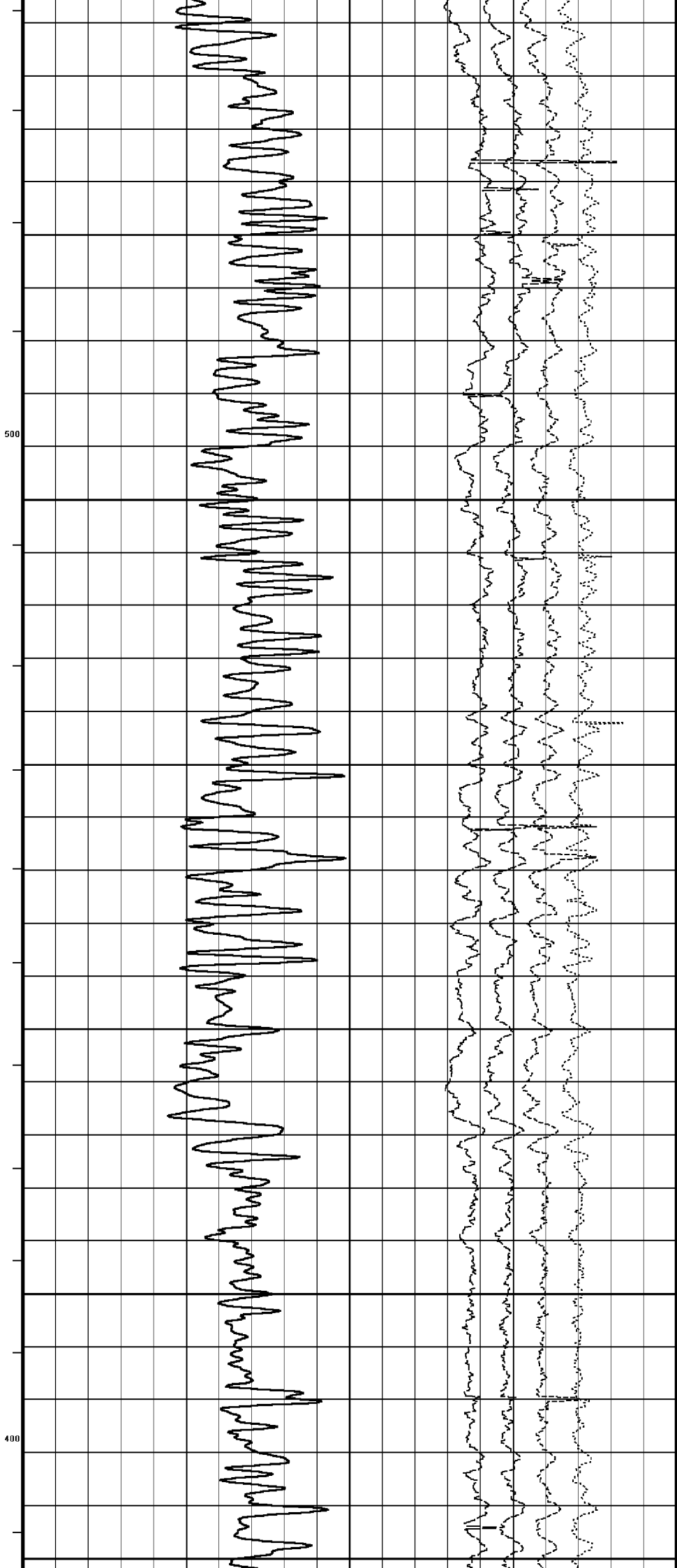
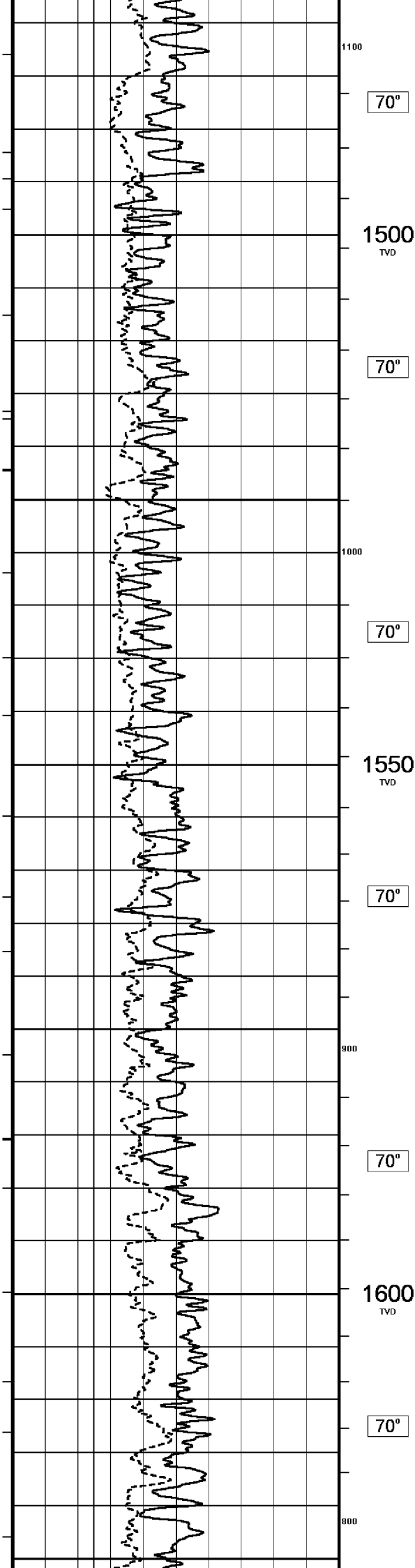
67°

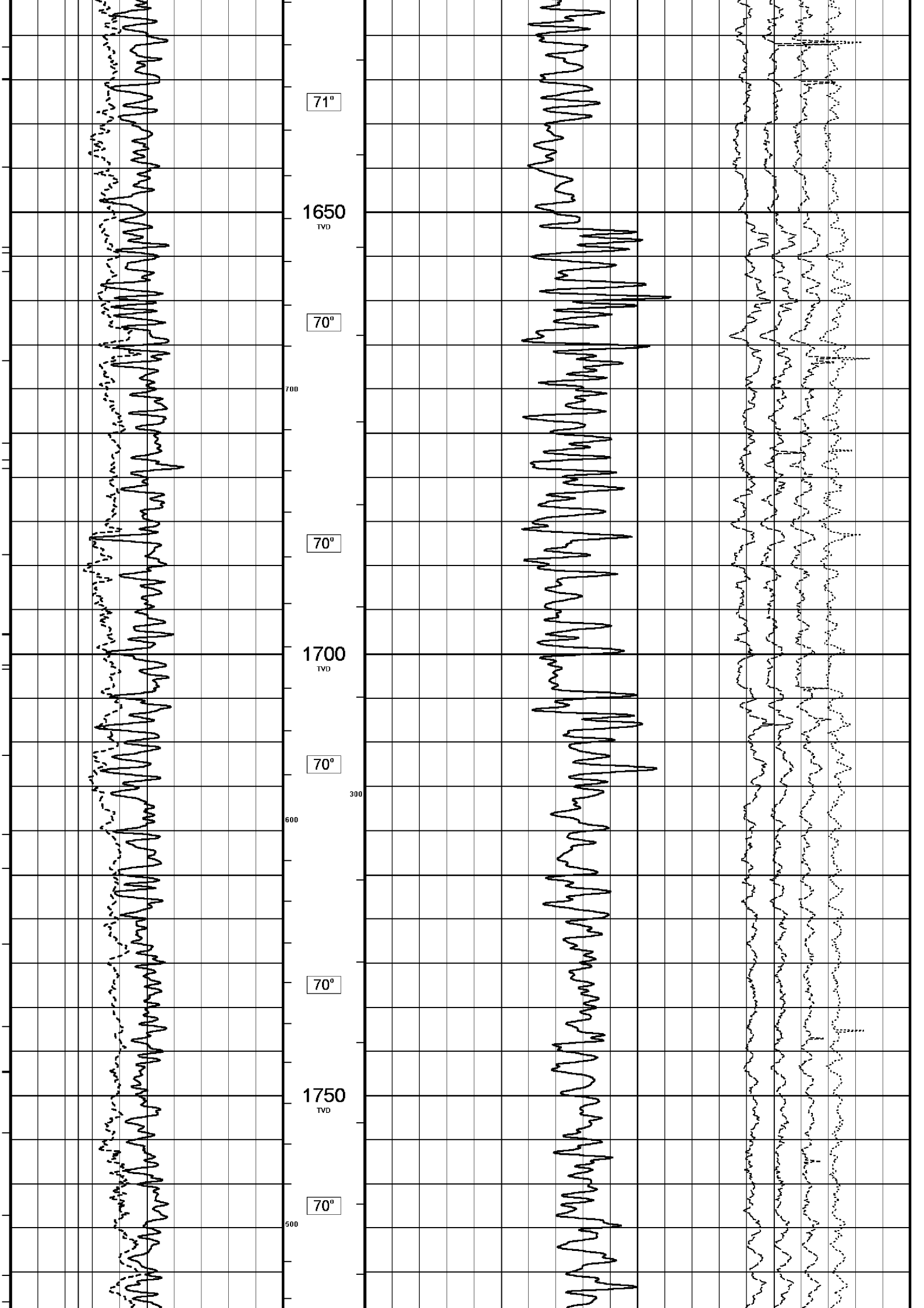
1300
TVD

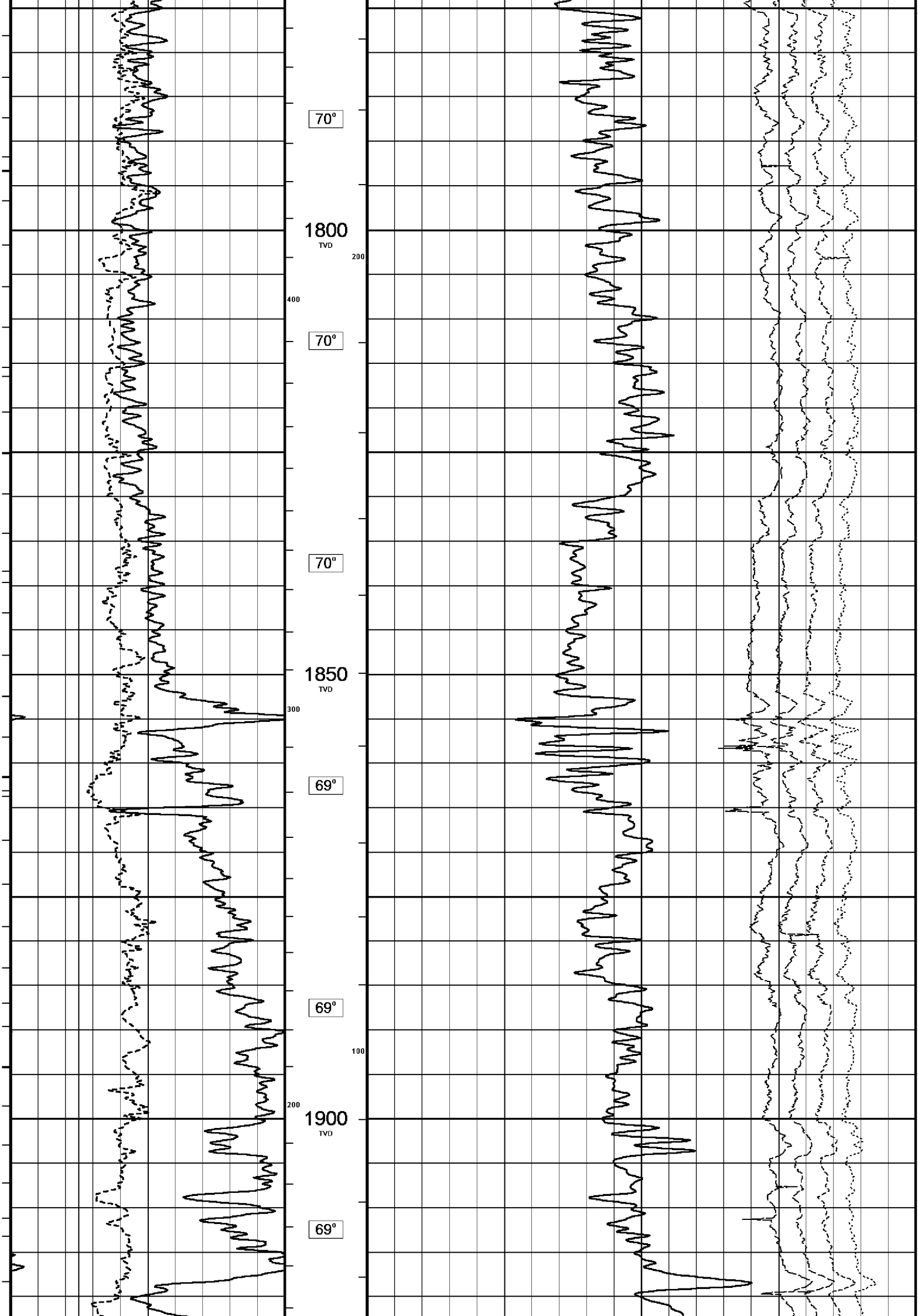
67°

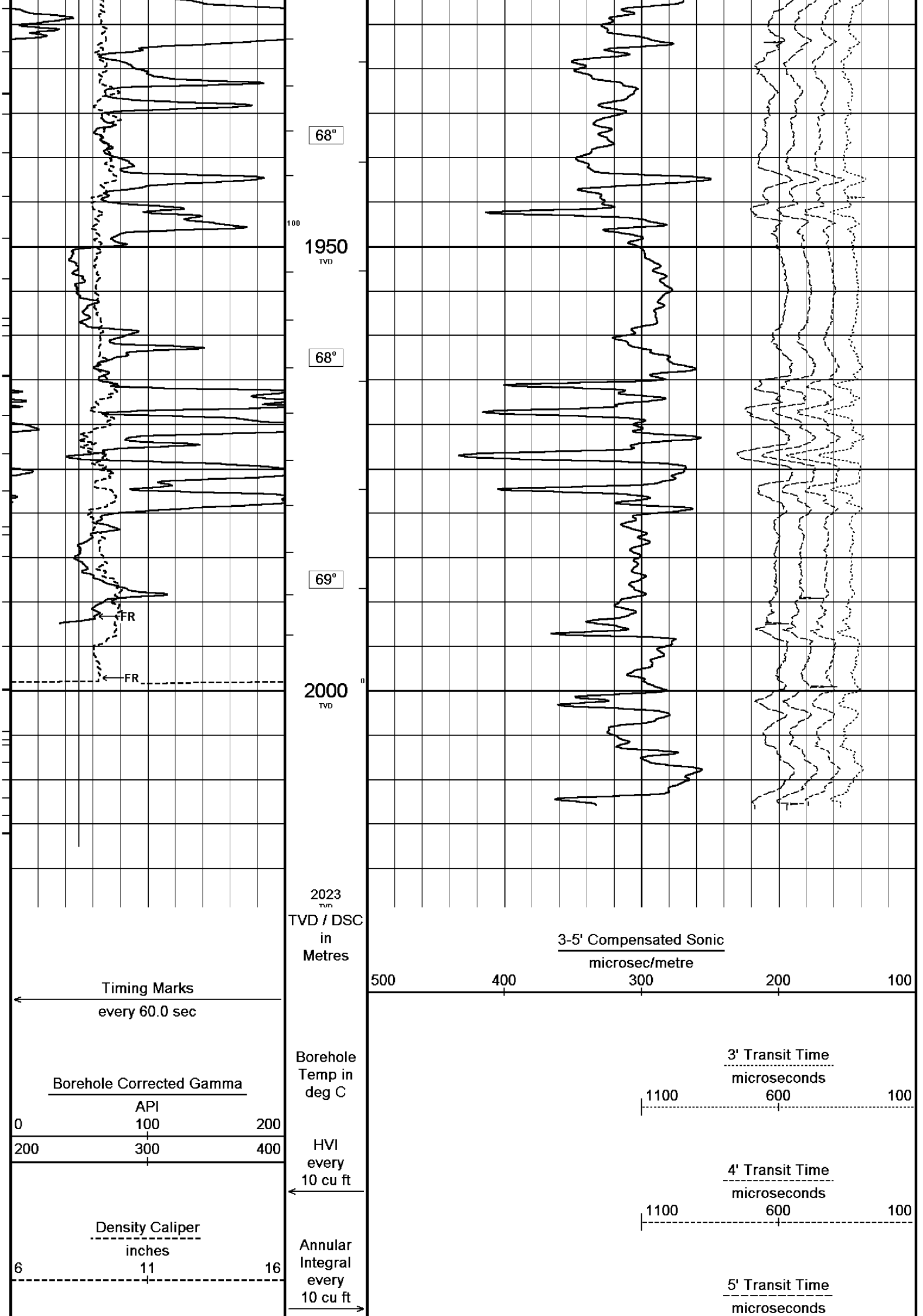














Depth Based Data - Maximum Sampling Increment 10.0cm

Plotted on 30-NOV-2005 21:52

Filename: C:\logs\BMA_A19A\FIELD DATA\BMA_A19A_MSS.dta

Recorded on 30-NOV-2005 14:16

System Configuration Dates: Logged 17-JUN-2004: Processed 17-JUN-2004: Plotted 17-JUN-2004:

BEFORE SURVEY CALIBRATION

C:\logs\BMA_A19A\FIELD DATA\BMA_A19A_TIME_LOG14.dta

General Constants All 000		
General Parameters		
Mud Resistivity	0.113	ohm-metres
Mud Resistivity Temperature	25.000	degrees C
Water Level	0.000	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	7.000	inches
Caliper for Differential Caliper	None	
Rwa Parameters		
Porosity used	Limestone Sonic Porosity	
Resistivity used	Deep Induction	
RWA Constant A	0.610	
RWA Constant M	2.150	

High Resolution Temperature Calibration MCG 142			Field Calibration on 7-NOV-2005,03:12
	Measured	Calibrated(Deg C)	
Lower	0.00	0.00	
Upper	100.00	100.00	

High Resolution Temperature Constants MCG 142	
Pre-filter Length	11

Gamma Calibration MCG 142			Field Calibration on 7-NOV-2005 03:17
	Measured	Calibrated (API)	
Background	21	14	
Calibrator (Gross)	1367	923	
Calibrator (Net)	1346	909	

Gamma Constants MCG 142		
Gamma Calibrator Number	060	
Mud Density	1.21	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Centred	
Concentration of KCl	0.00	kppm

Caliper Calibration MPD 083			Base Calibration on 28-OCT-2005 18:13
			Field Calibration on 7-NOV-2005 03:20
Base Calibration			
Reading No	Measured	Calibrator Size (in)	
1	13616	4.01	
2	21847	5.99	
3	30336	7.98	
4	38762	9.94	
5	47872	12.01	
6	N/A	N/A	

Field Calibration

Measured Caliper (in)

7.94

Actual Caliper (in)

7.98

Sonic Constants MSS 066

Maximum Boundary Contrast	100.00	micro-sec/ft
Fluid Transit Time	189.00	micro-sec/ft
Limestone Transit Time	47.50	micro-sec/ft
Sandstone Transit Time	55.50	micro-sec/ft
Dolomite Transit Time	43.50	micro-sec/ft
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	N/A

Down Hole Fixed Gate Parameters

Gate Start	N/A	micro-sec
Gate Width	N/A	micro-sec
Initial Discriminator Level	0.0000	mVolts

Full Waveform Parameters

Use 3' Waveform to derive TR	No	
Use 4' Waveform to derive TR	No	
Use 5' Waveform to derive TR	No	
Use 6' Waveform to derive TR	No	
3' Waveform Discriminator Level	0.45	mV
4' Waveform Discriminator Level	0.45	mV
5' Waveform Discriminator Level	0.35	mV
6' Waveform Discriminator Level	0.35	mV
3' Waveform Filter	None	
4' Waveform Filter	None	
5' Waveform Filter	None	
6' Waveform Filter	None	
Semblance Level	0.50	
Semblance Window Width	120.00	micro-sec
Sonic 1 Despiker	100.00	micro-sec/ft
Sonic 2 Despiker	100.00	micro-sec/ft

DOWNHOLE EQUIPMENT

C:\logs\BMA_A19A\FIELD DATA\BMA_A19A_TIME_LOG14.dta

Compact Swivel Head Adaptor F

SHA 71 Length: 0.83 m Weight: 26.5 lb

Compact Knuckle Joint

SKJ 100 Length: 0.66 m Weight: 24.3 lb

Compact Battery Sub.

MBS 99 Length: 4.41 m Weight: 44.1 lb

Compact Inline Standoff B

MIS 73 Length: 0.65 m Weight: 15.4 lb

Compact Stiff Bridle Electrode Sub.

MBE 18 Length: 3.76 m Weight: 94.8 lb



Compact Inline Standoff B
MIS 138 Length: 0.65 m Weight: 15.4 lb

Compact Stiff Bridle Electrode Sub.
MBE 19 Length: 3.76 m Weight: 94.8 lb

Compact Inline Standoff B
MIS 136 Length: 0.65 m Weight: 15.4 lb

MBE21 - THIRD BRIDLE
MLK 111 Length: 3.76 m Weight: 30.9 lb

Compact Inline Standoff B
MIS 133 Length: 0.65 m Weight: 15.4 lb

Compact Gamma
MCG 142 Length: 2.65 m Weight: 63.9 lb

32.22 m GGCE - Borehole Corrected Gamma
31.33 m CGXT - MCG External Temperature

Compact Memory Sub A.C
MMS 38 Length: 0.95 m Weight: 30.9 lb

Compact Knuckle Joint
SKJ 45 Length: 0.66 m Weight: 24.3 lb

Compact Swivel Head Adaptor F
SHA 64 Length: 0.83 m Weight: 26.5 lb

Compact Inline Bowspring A
MIS 94 Length: 1.74 m Weight: 33.1 lb

Compact Neutron
MDN 85 Length: 1.53 m Weight: 50.7 lb

26.17 m NPRL - Limestone Neutron Por.

Compact Density/Caliper
MPD 83 Length: 2.92 m Weight: 90.4 lb

23.48 m AVOL - Annular Volume
23.48 m HVOL - Hole Volume
23.48 m CLDC - Density Caliper
23.27 m DEN - Compensated Density

Compact Inline Bowspring A
MIS 24 Length: 1.74 m Weight: 33.1 lb

Compact Swivel Head Adaptor
SHA 28 Length: 0.83 m Weight: 26.5 lb

Compact Knuckle Joint
SKJ 110 Length: 0.66 m Weight: 24.3 lb

Compact Inline Standoff B
MIS 72 Length: 0.65 m Weight: 15.4 lb

Compact Upper Guard Sub.
MUG 30 Length: 2.74 m Weight: 68.3 lb

Compact Inline Standoff B
MIS 141 Length: 0.65 m Weight: 15.4 lb

Compact Laterolog Electrode Sub.
MLE 31 Length: 3.76 m Weight: 92.6 lb

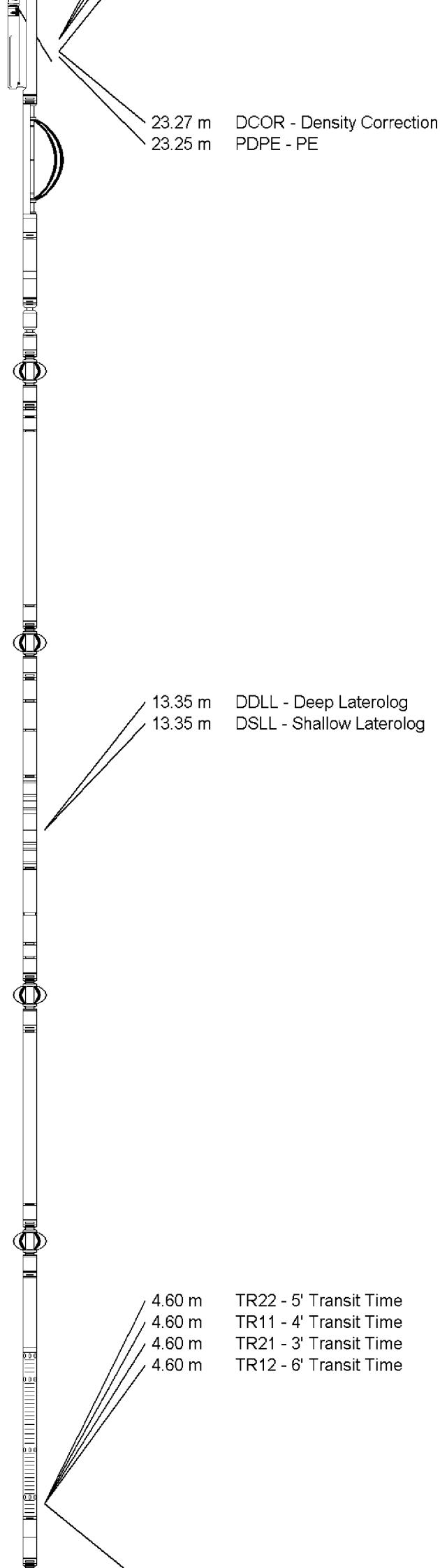
Compact Inline Standoff B
MIS 127 Length: 0.65 m Weight: 15.4 lb

Compact Lower Guard Sub.
MLG 7 Length: 2.44 m Weight: 55.1 lb

Compact Inline Standoff B
MIS 129 Length: 0.65 m Weight: 15.4 lb

Compact Sonic
MSS 66 Length: 3.82 m Weight: 72.8 lb

Compact Inline Standoff B

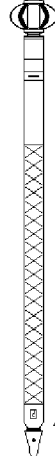


Compact inline Standoff B
MIS 126 Length: 0.65 m Weight: 15.4 lb

Compact Induction
MAI 39 Length: 3.29 m Weight: 48.5 lb

Pressure Bung + Hole Finder
HFS 4 Length: 0.40 m Weight: 6.6 lb

Total Length: 54.01 m Weight: 1201.5 lb



DT35 - 3-5' Compensated Sonic

Tool Zero

(0.44m from bottom)

All measurements relative to tool zero.

COMPANY	ESSO AUSTRALIA PTY LTD
WELL	BREAM A19A
FIELD	BREAM
PROVINCE/COUNTY	BASS STRAIT
COUNTRY/STATE	AUSTRALIA

Elevation Kelly Bushing		metres	First Reading	2007.20	metres
Elevation Drill Floor	32.82	metres	Depth Driller	2020.90	metres
Elevation Ground Level	-59.40	metres	Depth Logger	2017.60	metres



COMPENSATED SONIC
1:500 TVD