

Company: **OMV Australia Pty Ltd**

Well: **Baleen-4**

Field: **Baleen Field**

Rig: **Ocean Bounty**

State: **Victoria**

Rig: Ocean Bounty
 Field: Baleen Field
 Location: VIC/L21
 Well: Baleen-4
 Company: OMV Australia Pty Ltd

VISION Resistivity – 400kHz – Borehole Corrected 1:200 True Vertical Depth Recorded Memory Data

Location		Elevation		K.B. Top Drive	
Total depth:	2290.0 m				
Spud date:	29-Sep-2004			G.L. -78.1 m	
Runs:	1 To 4			D.F. 25.0 m	
Permanent datum:	MSL			Elev.: 0.0 m	
Log measured from:	Rotary Table			25.0 m above Perm. datum	
Depth reference:	Driller's Pipe Tally				
X = 626 675.90mE			Longitude		
Y = 5 792 541.30mN			Latitude		
			148° 26' 34.42"E 38° 00' 20.99"S		

Depth logged: 320.0 m To 2281.6 m Mag decl: 13.16 deg.
 Date logged: 10-Oct-04 To 23-Oct-04 Mag dip: -68.52 deg. Other services: Directional Drilling

Bore hole record

Casing record

Hole size	from		to		Size	Density	Borehole deviation record			
	in.	m	m	in.			Min	Max	from	to
12.25 in.	336.0 m	1890.0 m	30.0 in.	310.0 lb/ft	78.1 m				328.0 m	
8.5 in.	1890.0 m	2290.0 m	9.625 in.	47.0 lb/ft	78.1 m				1885.3 m	

Surface equipment

Software record

Unit	OLLU-KC0101	IDEAL Wis	ID9_1c_01r
Depth system	Geograph+GTE	SPM	hspm9_2c_08
		LWD	V6.4B 01
		MWD	70C00

Bit Run Summary

Run number	1	2	3	4
Bit size	in. 12.25	12.25	8.5	8.5
Bit start depth	m 336.0	733.0	1890.0	2010.5
Bit end depth	m 733.0	1890.0	2010.5	2290.0
Top interval logged	m 320.0	717.6	1881.5	1995.9
Bottom interval logged	m 717.6	1881.5	1995.9	2281.6
Begin log: time	00:45	23:00	18:00	18:00
Begin log: date	10-Oct-04	11-Oct-04	19-Oct-04	21-Oct-04
End log: time	19:00	20:00	16:30	7:45
End log: date	11-Oct-04	14-Oct-04	21-Oct-04	23-Oct-04
Mud data				
Depth	m 733.0	1890.0	1987.0	2290.0
Type	PETROFREE	PETROFREE	BARADRIL-N	BARADRIL-N
Mud weight	lb/gal 9.3	9.5	9.1	9.3
Solids	%by vol 6.7	6.9	3.1	4.4
Chlorides	mg/L 73200	75000	29000	27500
Rm	ohmm@degC n/a	n/a	0.1518@25.2	0.1469@26.4
Rmf	ohmm@degC n/a	n/a	0.1387@24.8	0.1298@26.3
Rmc	ohmm@degC n/a	n/a	0.1568@25.4	0.1518@25.4

Potassium	%	n/a	n/a	2.86	2.7						
Environmental data											
GR											
Mud weight	lb/gal	9.3	9.5	9.1	9.3						
Bit size	in.	12.25	12.25	8.5	8.5						
Resistivity											
Neutron porosity											
Hole Size	in.	12.25	12.25	8.5	8.5						
Mud weight	lb/gal	9.3	9.5	9.1	9.3						
Downhole Temperature	degC	70.0	85.0	92.5	58.0						
Mud salinity	ppk	n/a	n/a	n/a	n/a						
Formation salinity	mg/L	n/a	n/a	n/a	n/a						
Recording rate 1	SEC	10sec	10sec	10sec	10sec	GR					
Recording rate 2	SEC	10sec	10sec	10sec	10sec	RES					
Filtering GR		3pt	3pt	3pt	3pt						
Filtering density		n/a	n/a	n/a	n/a						
Filtering Neutron		n/a	n/a	n/a	n/a						
Company representative		G.Howard	C.Roots	H.Heinzle	T. Tesdale	G. Wakelin-King					
Schlumberger D&M personnel		O.Radicevic	M.Saicic	C.Soper	D.Hay	K.Wilson					

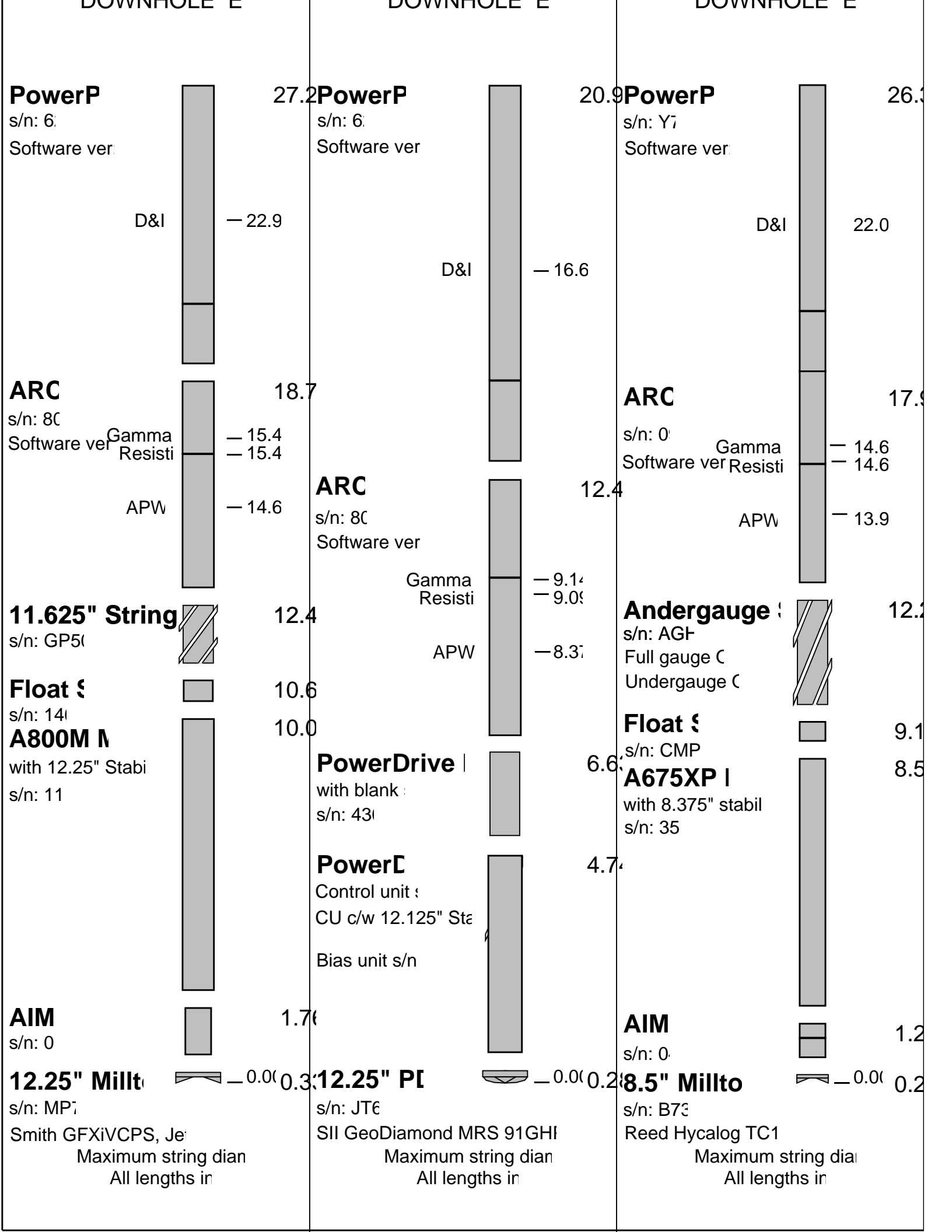
DISCLAIMER

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES FOR RUN1 Directional Surveys APWD (Annular Pressure While Drilling) MVC (Multiple Vibration Chassis)	OTHER SERVICES FOR RUN2 Directional Surveys APWD (Annular Pressure While Drilling) MVC (Multiple Vibration Chassis)	OTHER SERVICES FOR RUN3 Directional Surveys APWD (Annular Pressure While Drilling) MVC (Multiple Vibration Chassis)
REMARKS: RUN NUMBER 1 ARC Gamma Ray measurements are corrected for mud weight, tool size and bit size. ARC Resistivity measurements are borehole compensated. POOH: To run rotary steerable assembly.	REMARKS: RUN NUMBER 2 ARC Gamma Ray measurements are corrected for mud weight, tool size and bit size. ARC Resistivity measurements are borehole compensated. POOH: TD of the section.	REMARKS: RUN NUMBER 3 ARC Gamma Ray measurements are corrected for mud weight, tool size, bit size and for Potassium content in the mud. ARC Resistivity measurements are borehole compensated and environmentally corrected. POOH: To change BHA.

EQUIPMENT DESCRIPTION

RUN1	RUN2	RUN3
DOWNHOLE F	DOWNHOLE F	DOWNHOLE F



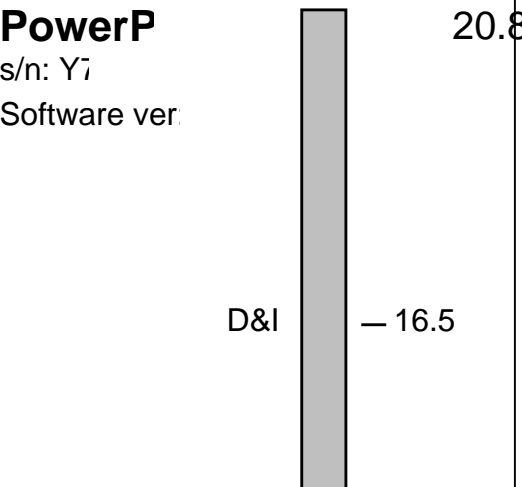
DISCLAIMER

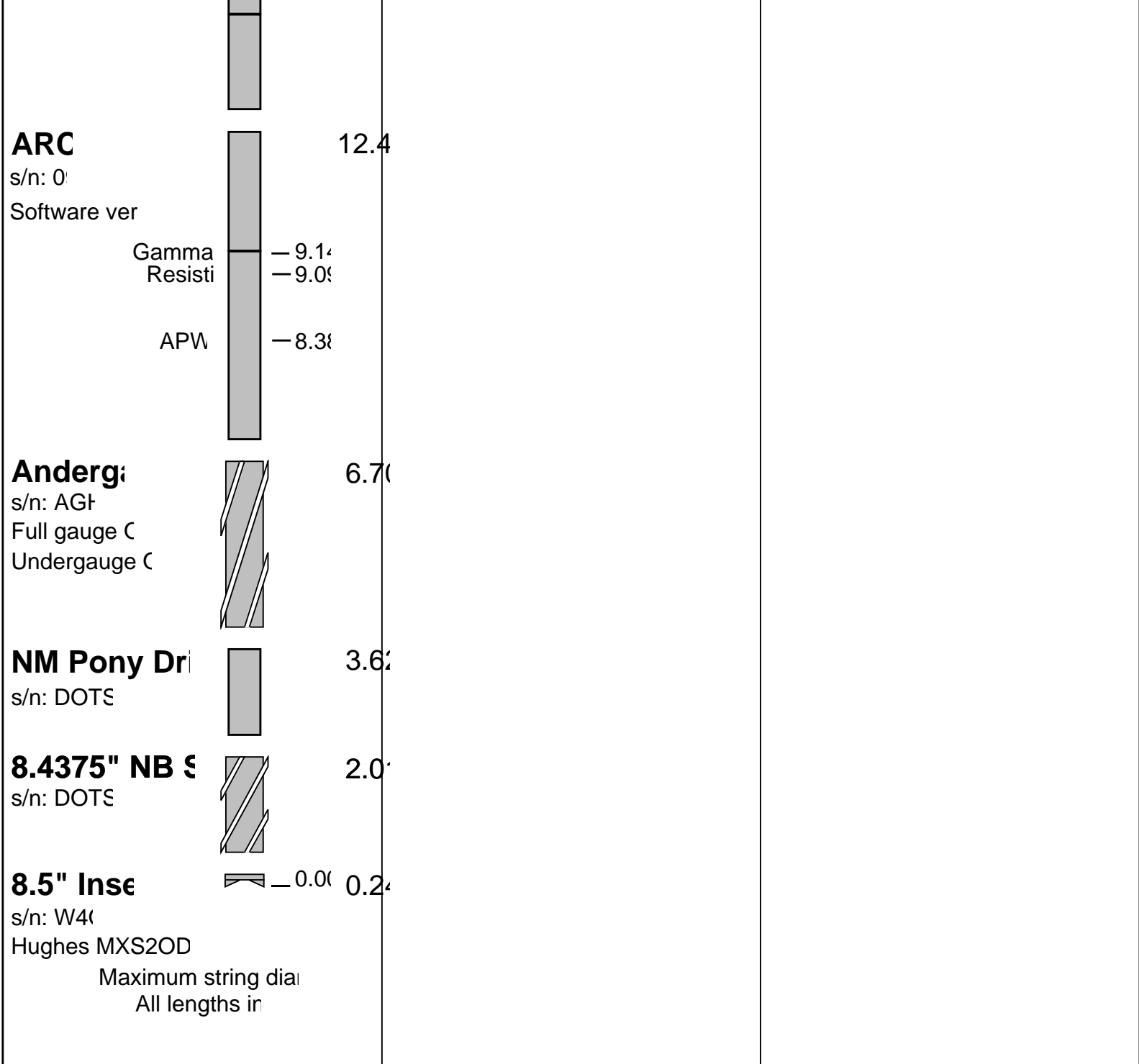
THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES FOR RUN4 Directional Surveys APWD (Annular Pressure While Drilling) MVC (Multiple Vibration Chassis)	OTHER SERVICES FOR RUN	OTHER SERVICES FOR RUN
REMARKS: RUN NUMBER 4 ARC Gamma Ray measurements are corrected for mud weight, tool size, bit size and for Potassium content in the mud. ARC Resistivity measurements are borehole compensated and environmentally corrected. POOH: Baleen-4 TD.	REMARKS: RUN NUMBER	REMARKS: RUN NUMBER

EQUIPMENT DESCRIPTION

RUN4	RUN	RUN
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<p align="center">DOWNHOLE E</p> 		
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Run 1 Run 2 Run 3 Run 4

Bottom Hole Temperature (degC)	70.000000	85.000000	92.500000	58.000000
Bit Size (in)	12.250000	12.250000	8.500000	8.500000
Mud Weight (ppg)	9.300000	9.500000	9.100000	9.100000
Oil Based Mud (RM)	YES	YES	NO	NO
Resistivity of Mud Sample (RM)	1000.000000	1000.000000	0.152800	0.146900
Mud Sample Temperature (degC)	25.000000	25.000000	25.200000	26.400000
Total Measured Depth (m)	733.000000	1890.000000	2010.500000	2290.000000
ARC Tool Size (in)	8.250000	8.250000	6.750000	6.750000
ARC Down hole software version Number	6.400000	6.400000	6.400000	6.400000
Potassium Concentration (mg/L)	0.000000	0.000000	2.860000	2.700000
Way to Report Potassium Concentration (RM)	K_by_Wgt_%	K_by_Wgt_%	K_by_Wgt_%	K_by_Wgt_%
ARC Down Hole Software Version	8019.000000	8026.000000	99.000000	99.000000
ARC Tool Serial Number				

Parameter Insert Header Software version 2.0c"

Input DLIS Files

IDEAL Version: ID9_1C_01

IDF

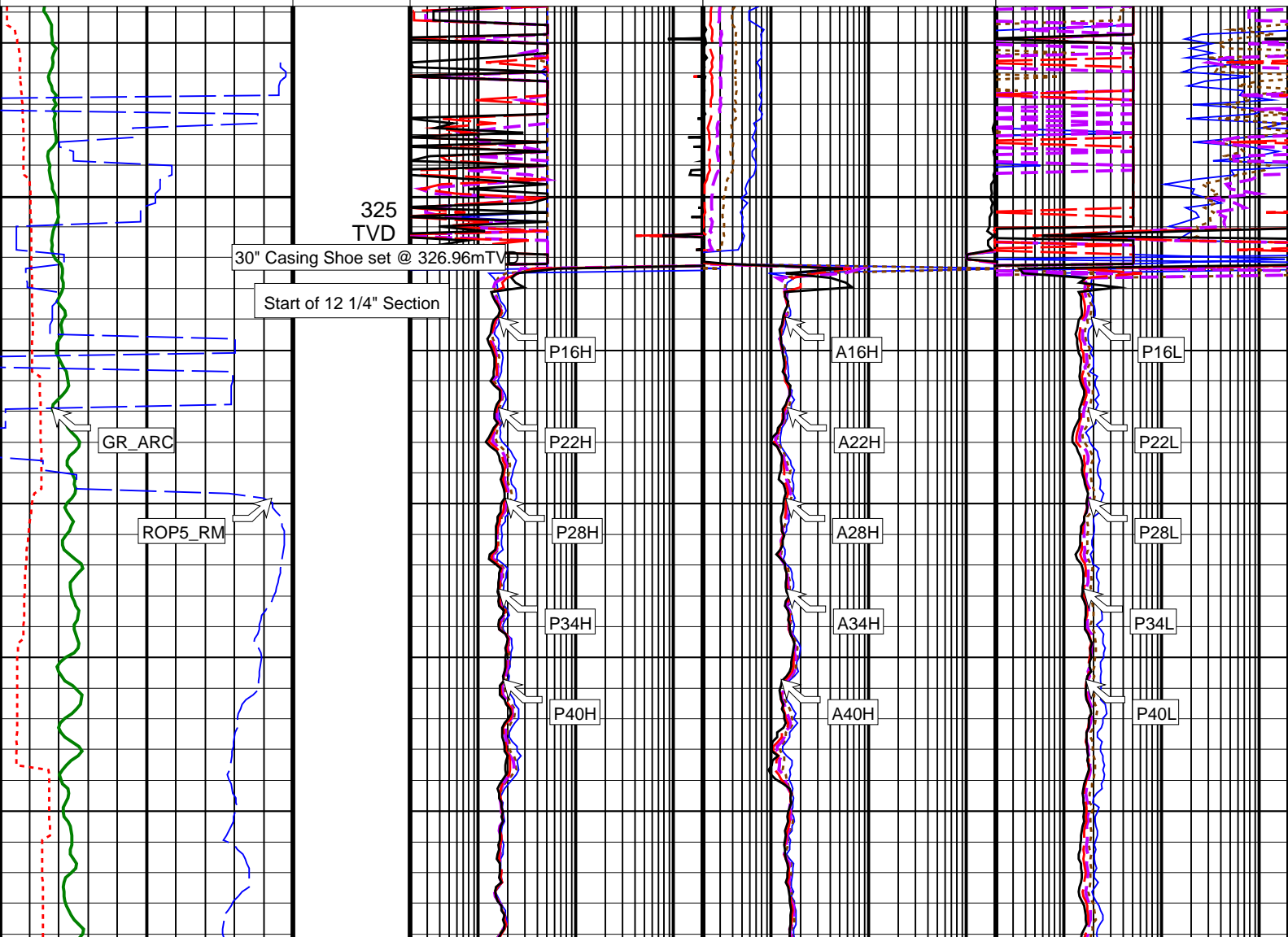
Format: VISION Resistivity 200TVD RM

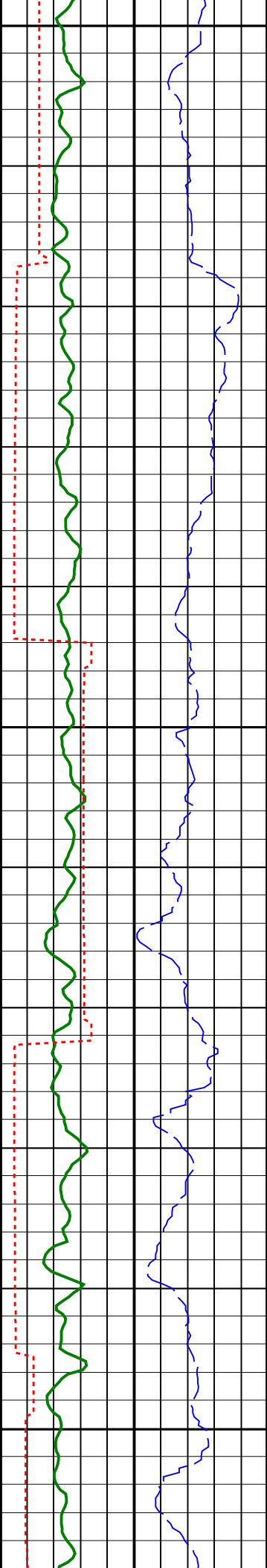
Vertical Scale: 1:200

Graphics File Created: 23-Oct-2004 18:45

Parameters

DLIS Name	Description	Value
DO	Depth Offset	0.0 m
	ARC Phase-Shift Resistivity 40-in. at 2 MHz (P40H)	ARC Attenuation Resistivity 40-in. at 2 MHz (A40H)
	0.2 (OHMM) 200	0.2 (OHMM) 200
	ARC Phase-Shift Resistivity 34-in. at 2 MHz (P34H)	ARC Attenuation Resistivity 34-in. at 2 MHz (A34H)
	0.2 (OHMM) 200	0.2 (OHMM) 200
	ARC Phase-Shift Resistivity 28-in. at 2 MHz (P28H)	ARC Attenuation Resistivity 28-in. at 2 MHz (A28H)
	0.2 (OHMM) 200	0.2 (OHMM) 200
	ARC Phase-Shift Resistivity 22-in. at 2 MHz (P22H)	ARC Attenuation Resistivity 22-in. at 2 MHz (A22H)
	0.2 (OHMM) 200	0.2 (OHMM) 200
	ARC Phase-Shift Resistivity 16-in. at 2 MHz (P16H)	ARC Attenuation Resistivity 16-in. at 2 MHz (A16H)
	0.2 (OHMM) 200	0.2 (OHMM) 200
	ARC Phase-Shift Resistivity 40-in. at 400 KHz (P40L)	ARC Attenuation Resistivity 40-in. at 400 KHz (A40L)
	0.2 (OHMM) 200	0.2 (OHMM) 200
	ARC Phase-Shift Resistivity 34-in. at 400 KHz (P34L)	ARC Attenuation Resistivity 34-in. at 400 KHz (A34L)
	0.2 (OHMM) 200	0.2 (OHMM) 200
	ARC Phase-Shift Resistivity 28-in. at 400 KHz (P28L)	ARC Attenuation Resistivity 28-in. at 400 KHz (A28L)
	0.2 (OHMM) 200	0.2 (OHMM) 200
	ARC Phase-Shift Resistivity 22-in. at 400 KHz (P22L)	ARC Attenuation Resistivity 22-in. at 400 KHz (A22L)
	0.2 (OHMM) 200	0.2 (OHMM) 200
	ARC Phase-Shift Resistivity 16-in. at 400 KHz (P16L)	ARC Attenuation Resistivity 16-in. at 400 KHz (A16L)
	0.2 (OHMM) 200	0.2 (OHMM) 200
ARC Resistivity Time After Bit (TAB_ARC_RES)	(HR)	10
Rate of Penetration, Averaged over Last 5ft (ROP5_RM)	(M/HR)	0
ARC Gamma Ray (GR_ARC)	(GAPI)	200

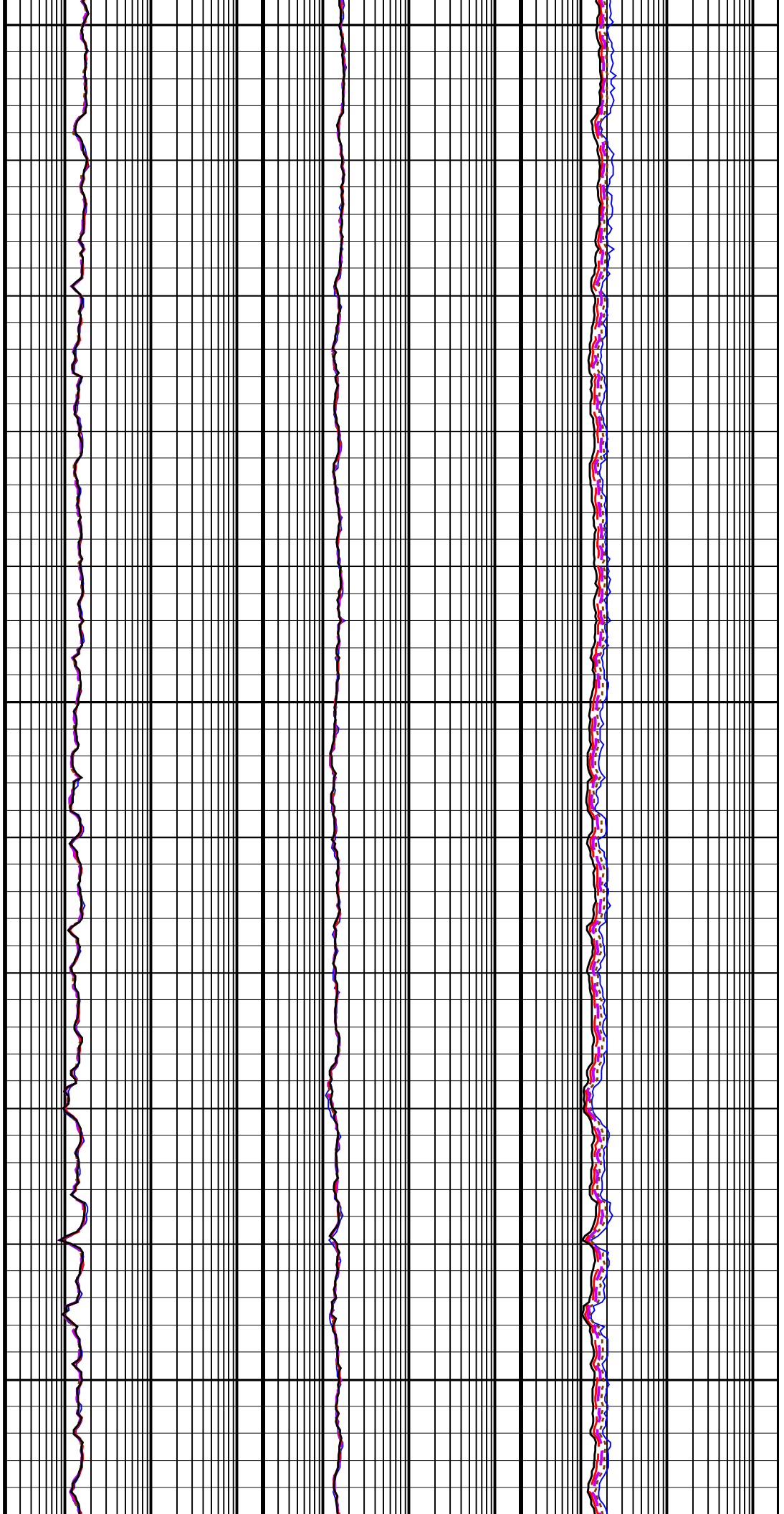


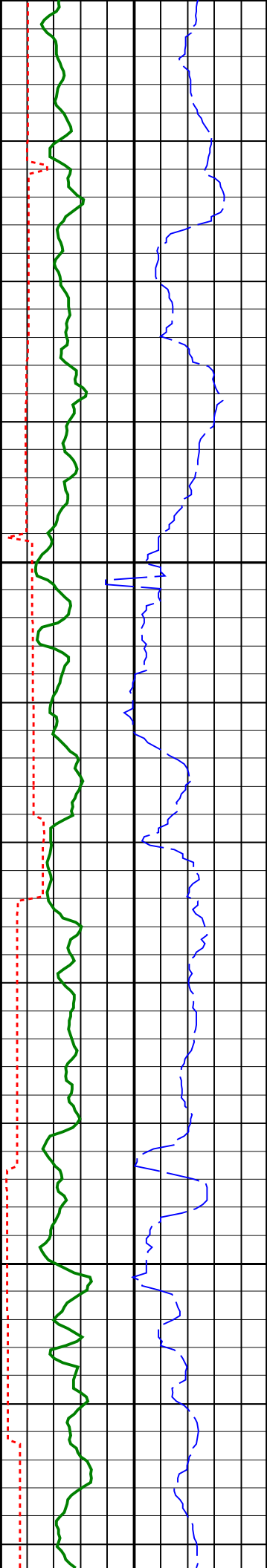


350
TVD

375
TVD

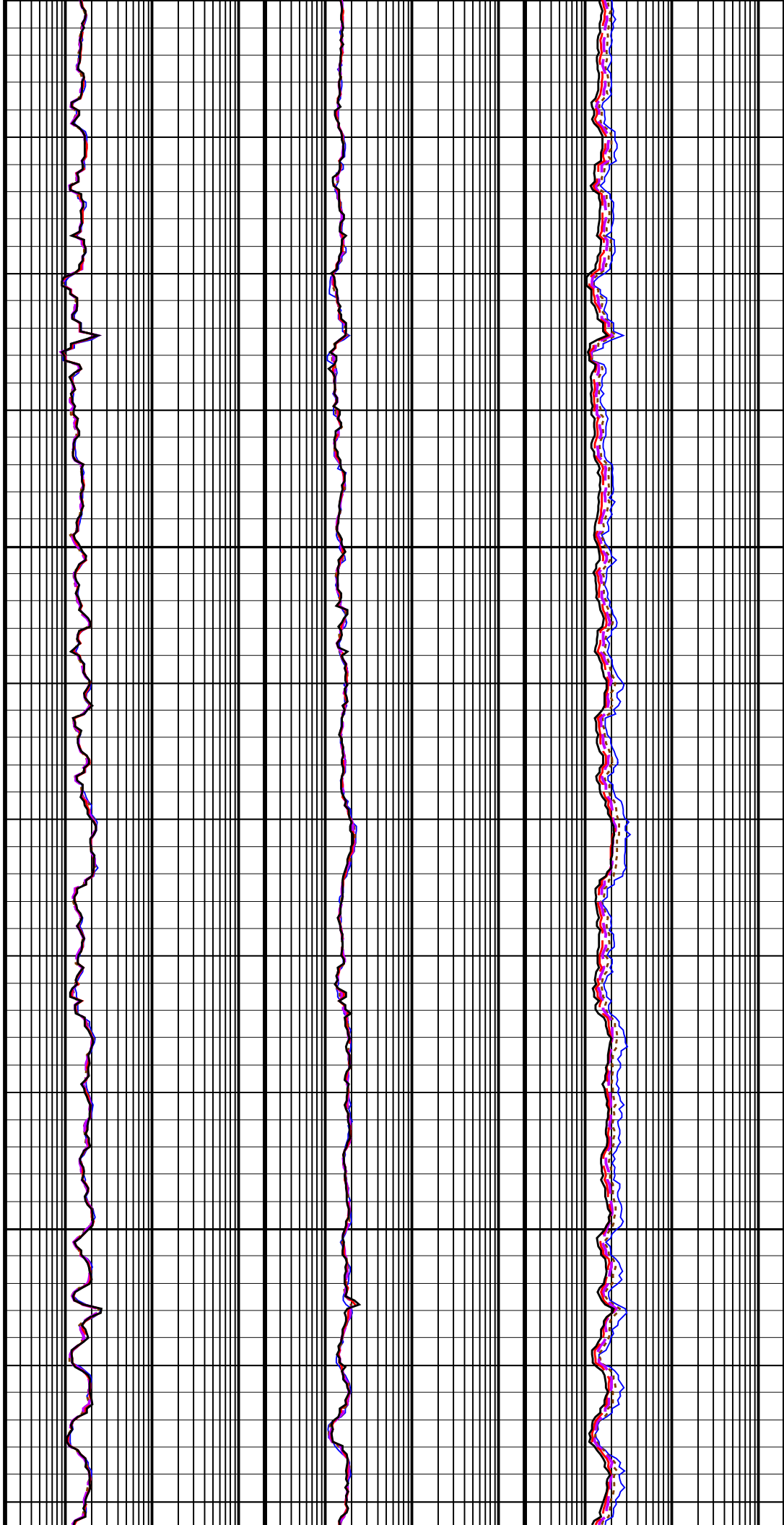
400
TVD

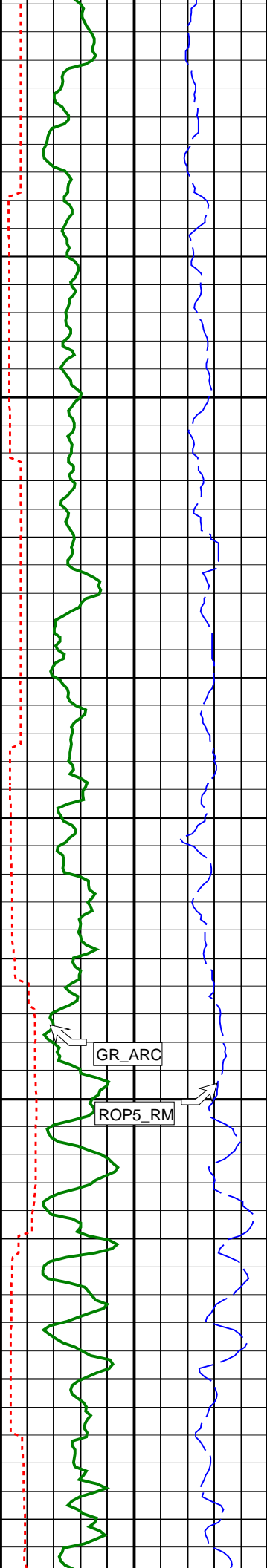




425
TVD

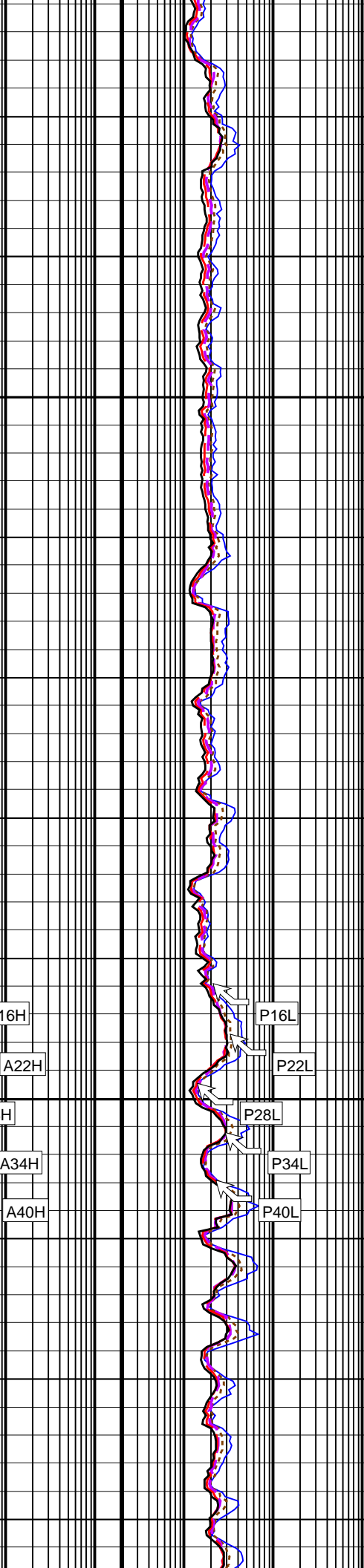
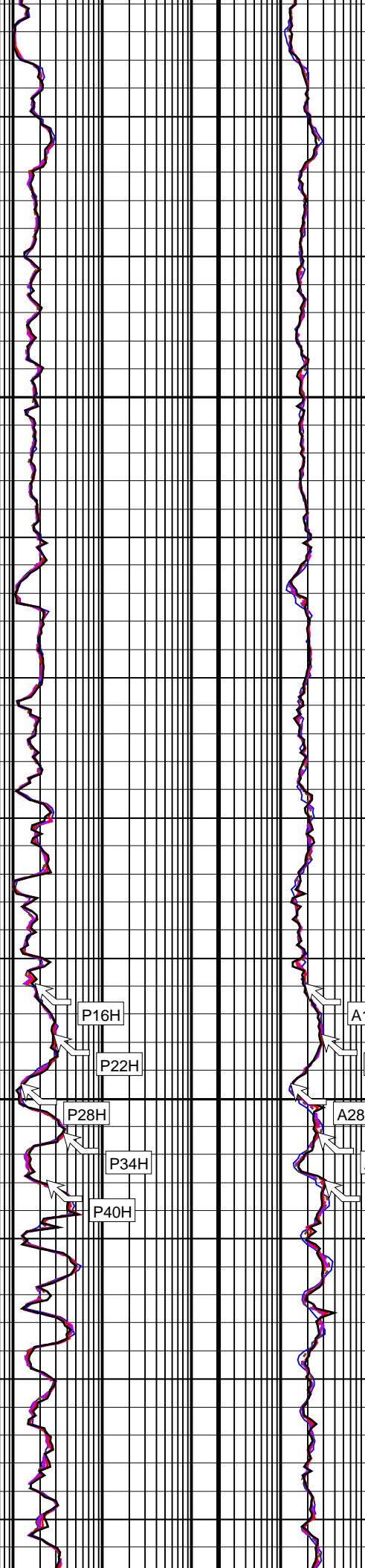
450
TVD

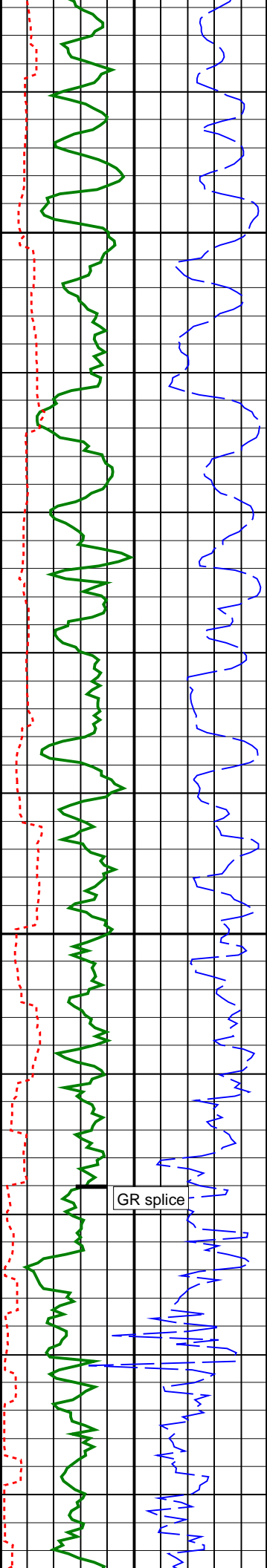




475
TVD

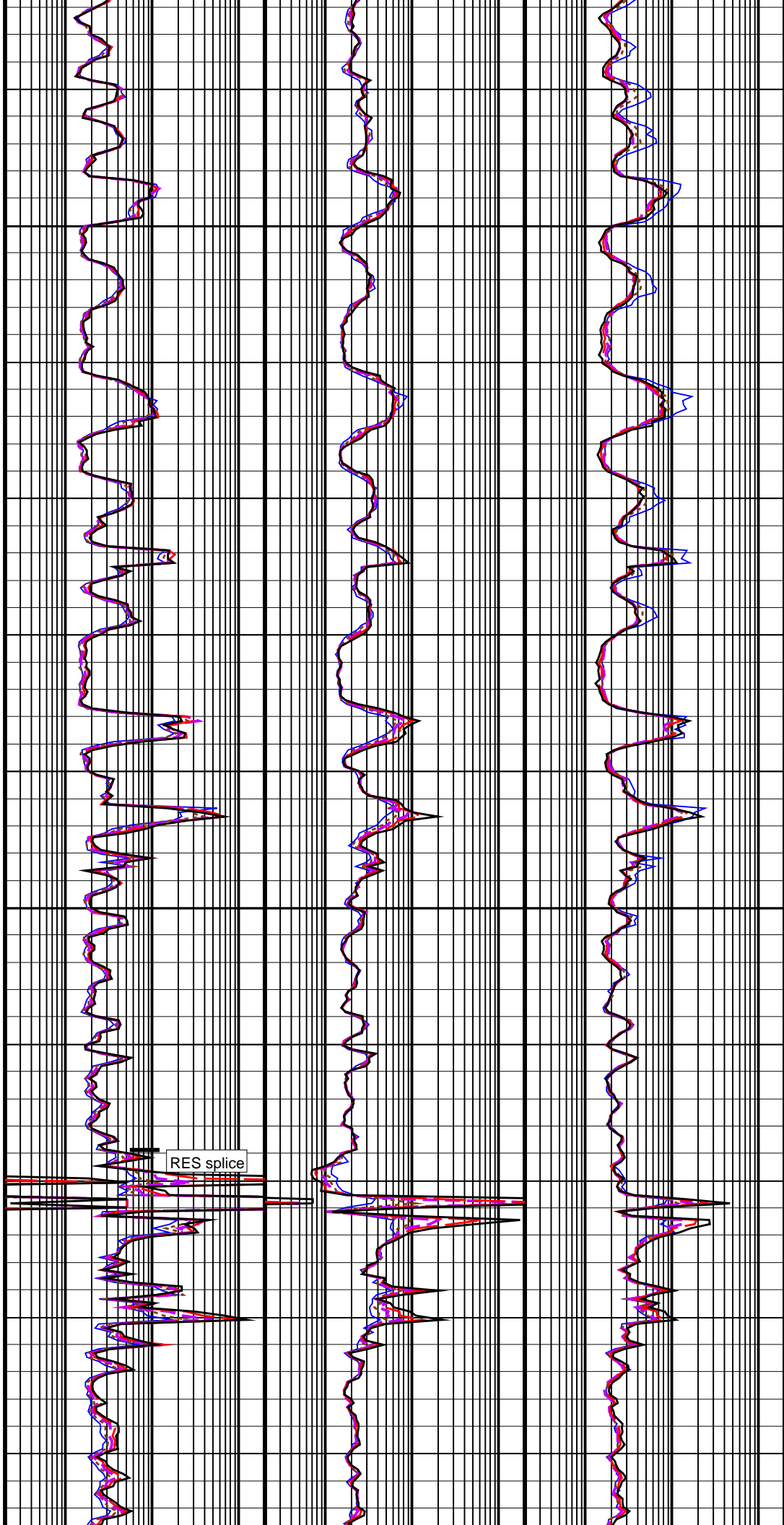
500
TVD

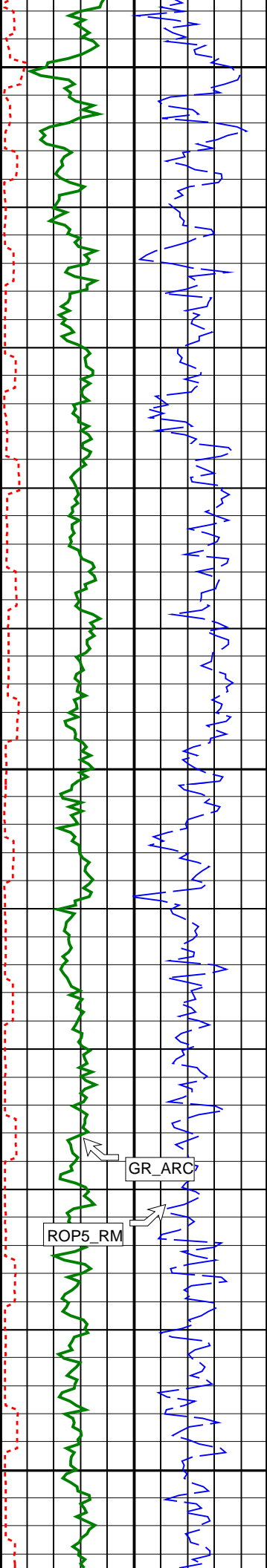




525
TVD

550
TVD

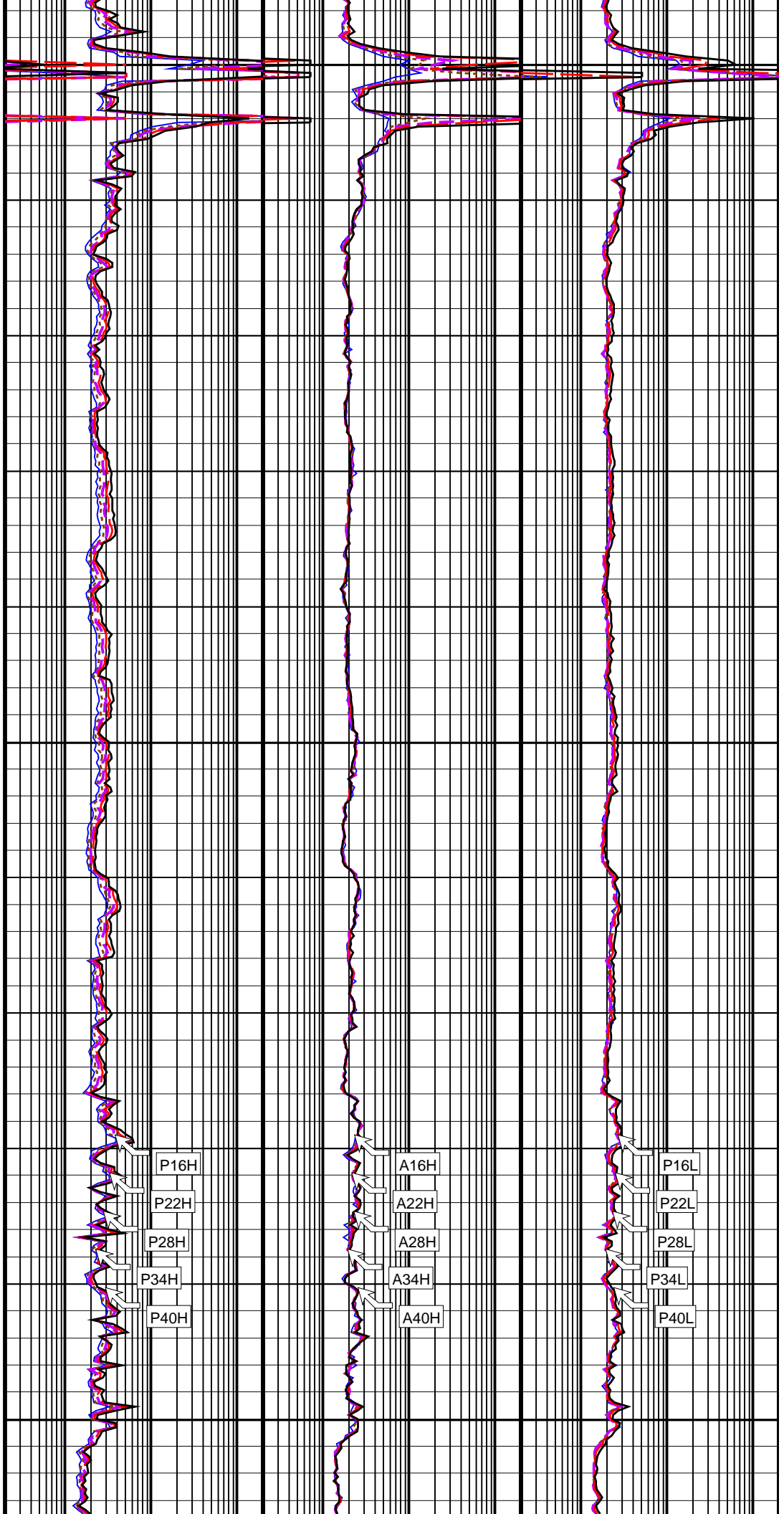




575
TVD

600
TVD

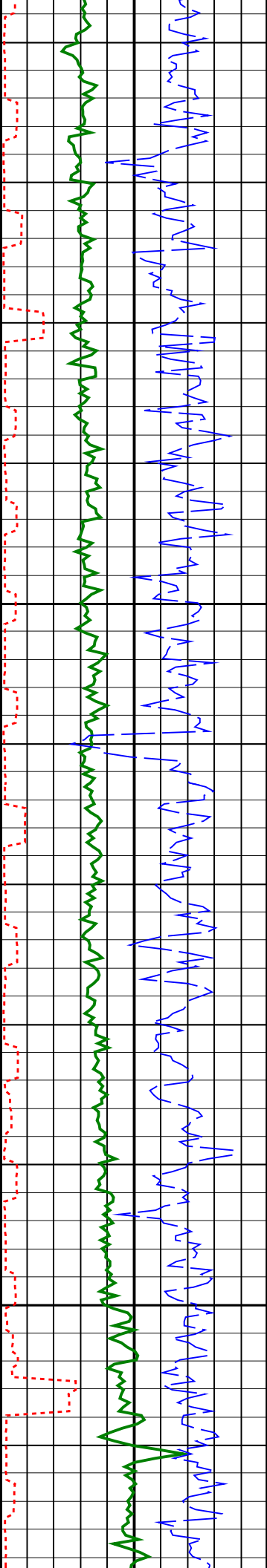
625
TVD



P16H
P22H
P28H
P34H
P40H

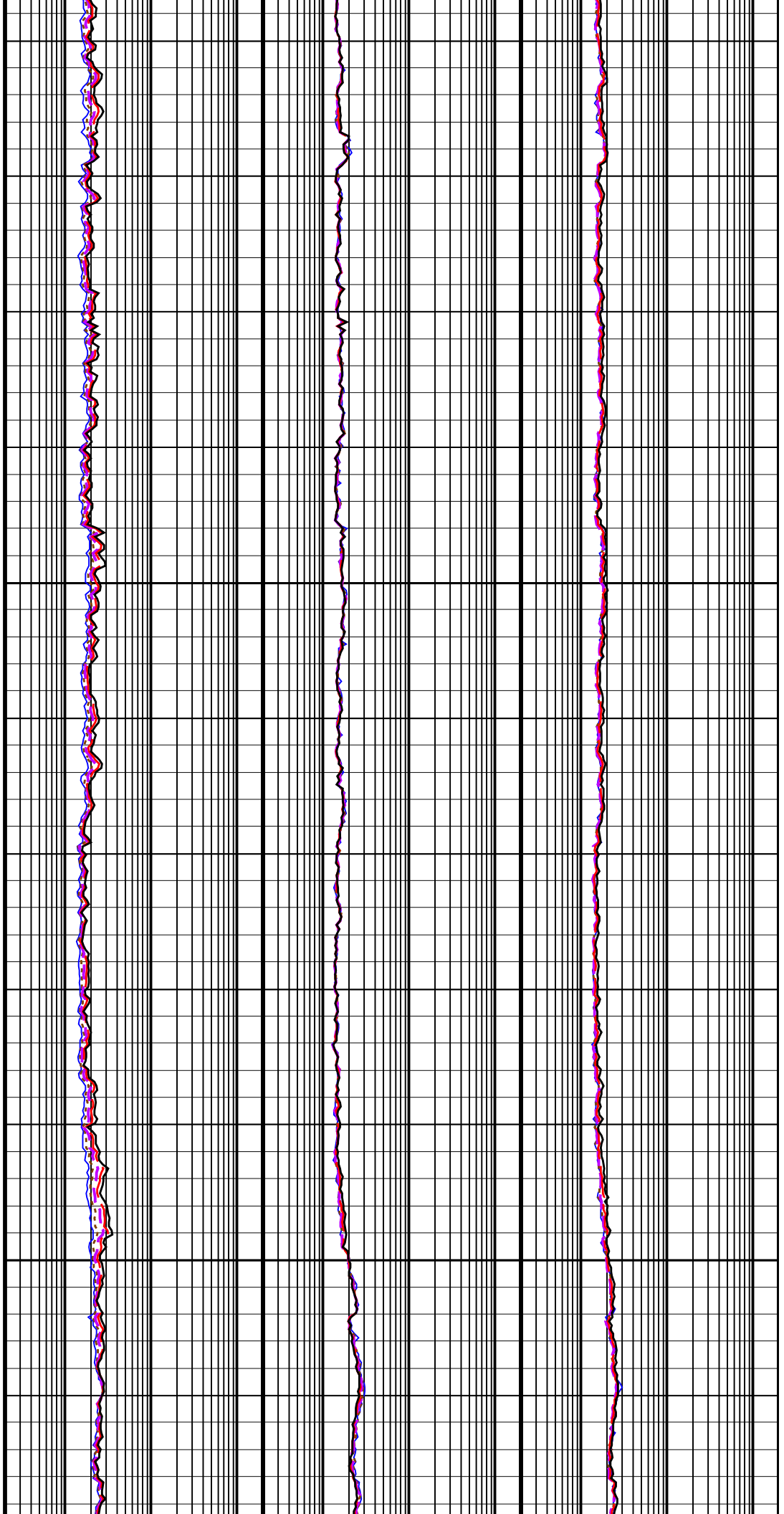
A16H
A22H
A28H
A34H
A40H

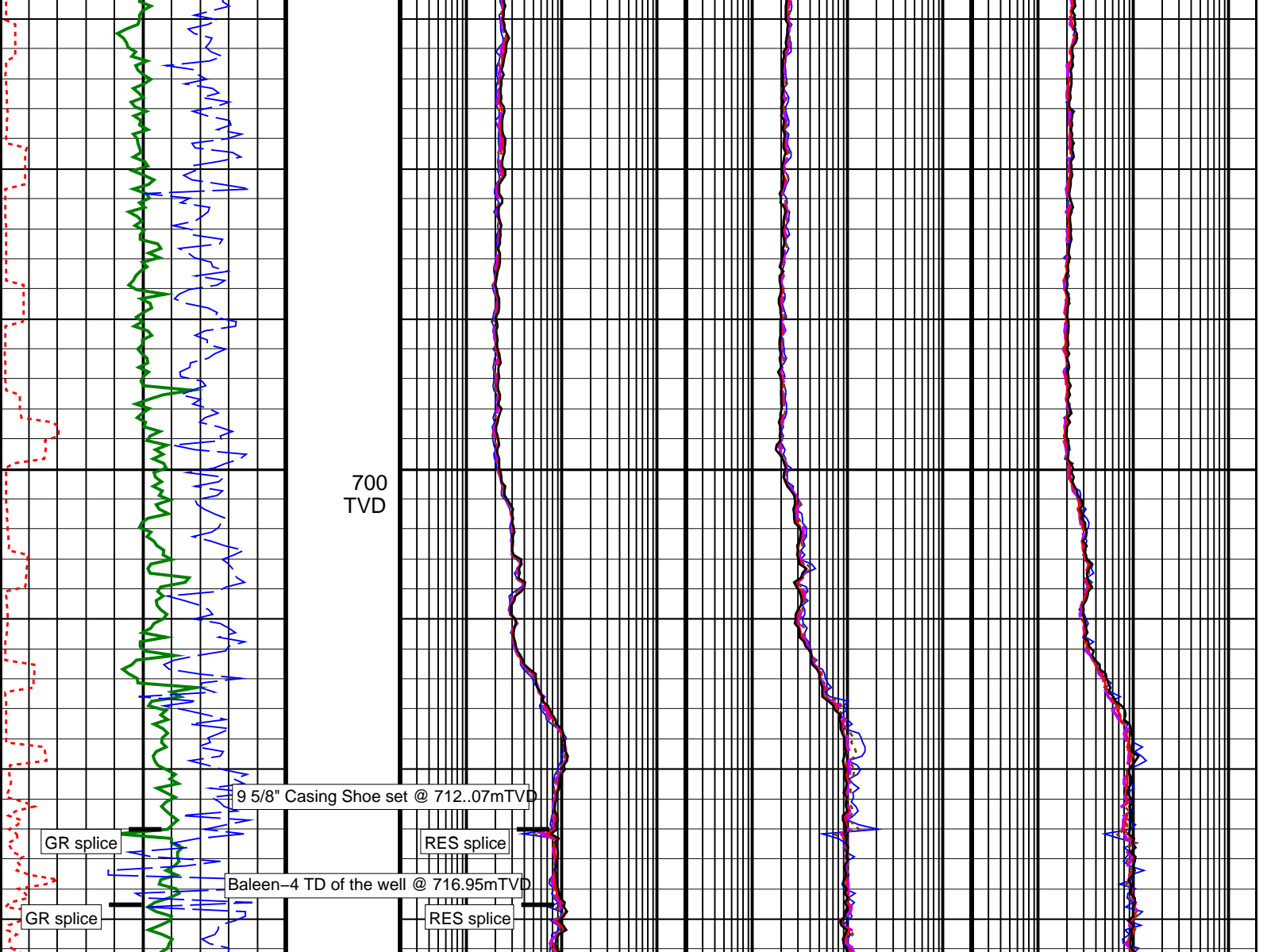
P16L
P22L
P28L
P34L
P40L



650
TVD

675
TVD





ARC Gamma Ray (GR_ARC) 0 (GAPI) 200	ARC Phase-Shift Resistivity 16-in. at 2 MHz (P16H) 0.2 (OHMM) 200	ARC Attenuation Resistivity 16-in. at 2 MHz (A16H) 0.2 (OHMM) 200	ARC Phase-Shift Resistivity 16-in. at 400 KHz (P16L) 0.2 (OHMM) 200
Rate of Penetration, Averaged over Last 5ft (ROP5_RM) 200 (M/HR) 0	ARC Phase-Shift Resistivity 22-in. at 2 MHz (P22H) 0.2 (OHMM) 200	ARC Attenuation Resistivity 22-in. at 2 MHz (A22H) 0.2 (OHMM) 200	ARC Phase-Shift Resistivity 22-in. at 400 KHz (P22L) 0.2 (OHMM) 200
ARC Resistivity Time After Bit (TAB_ARC_RES) 0 (HR) 10	ARC Phase-Shift Resistivity 28-in. at 2 MHz (P28H) 0.2 (OHMM) 200	ARC Attenuation Resistivity 28-in. at 2 MHz (A28H) 0.2 (OHMM) 200	ARC Phase-Shift Resistivity 28-in. at 400 KHz (P28L) 0.2 (OHMM) 200
	ARC Phase-Shift Resistivity 34-in. at 2 MHz (P34H) 0.2 (OHMM) 200	ARC Attenuation Resistivity 34-in. at 2 MHz (A34H) 0.2 (OHMM) 200	ARC Phase-Shift Resistivity 34-in. at 400 KHz (P34L) 0.2 (OHMM) 200
	ARC Phase-Shift Resistivity 40-in. at 2 MHz (P40H) 0.2 (OHMM) 200	ARC Attenuation Resistivity 40-in. at 2 MHz (A40H) 0.2 (OHMM) 200	ARC Phase-Shift Resistivity 40-in. at 400 KHz (P40L) 0.2 (OHMM) 200

IDEAL Version: ID9_1C_01
IDF

Input DLIS Files

8.25-in. Array Resistivity Compensated / Equipment Identification

Primary Equipment:
 Tool Name and Serial Number
 ARC825 Calibration Status

ARC8 – AA 8019
 -

Master: 28-Aug-2004 3:28											
8.25-in. Array Resistivity Compensated Calibration											
Resistivity: Air											
Phase	Phase-Shift T1		Value	Phase	Phase-Shift T2		Value	Phase	Phase-Shift T3		Value
Master			1.012	Master			-0.5076	Master			0.5194
	-3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)		-3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)		-3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)
Phase	Phase-Shift T4		Value	Phase	Phase-Shift T5		Value	Phase	Phase-Shift T1 at 400KHz		Value
Master			-0.4304	Master			-0.02064	Master			1.783
	-3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)		-3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)		-3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)
Phase	Phase-Shift T2 at 400KHz		Value	Phase	Phase-Shift T3 at 400KHz		Value	Phase	Phase-Shift T4 at 400KHz		Value
Master			-1.325	Master			1.616	Master			-1.325
	-3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)		-3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)		-3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)
Phase	Phase-Shift T5 at 400KHz		Value								
Master			1.564								
	-3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)								

Master: 28-Aug-2004 3:28											
8.25-in. Array Resistivity Compensated Calibration											
Resistivity: Air											
Phase	Attenuation T1		Value	Phase	Attenuation T2		Value	Phase	Attenuation T3		Value
Master			8.369	Master			6.359	Master			5.053
	6.500 (Minimum)	8.500 (Nominal)	10.50 (Maximum)		4.500 (Minimum)	6.500 (Nominal)	8.500 (Maximum)		2.500 (Minimum)	4.500 (Nominal)	6.500 (Maximum)
Phase	Attenuation T4		Value	Phase	Attenuation T5		Value	Phase	Attenuation T1 at 400KHz		Value
Master			4.266	Master			3.602	Master			8.300
	2.600 (Minimum)	4.600 (Nominal)	6.600 (Maximum)		1.600 (Minimum)	3.600 (Nominal)	5.600 (Maximum)		6.500 (Minimum)	8.500 (Nominal)	10.50 (Maximum)
Phase	Attenuation T2 at 400KHz		Value	Phase	Attenuation T3 at 400KHz		Value	Phase	Attenuation T4 at 400KHz		Value
Master			6.340	Master			5.058	Master			4.313
	4.500 (Minimum)	6.500 (Nominal)	8.500 (Maximum)		2.500 (Minimum)	4.500 (Nominal)	6.500 (Maximum)		2.600 (Minimum)	4.600 (Nominal)	6.600 (Maximum)
Phase	Attenuation T5 at 400KHz		Value								
Master			3.640								
	1.600 (Minimum)	3.600 (Nominal)	5.600 (Maximum)								

Master: 28-Aug-2004 1:45									
8.25-in. Array Resistivity Compensated Calibration									
Gamma Ray: Blanket									
Phase	Gamma ray factor (equals Calibration Gain multiplied by API Gain Factor) CPS								Value
Master									8.587
	4.960 (Minimum)	7.200 (Nominal)						9.650 (Maximum)	

8.25-in. Array Resistivity Compensated / Equipment Identification

Primary Equipment:
 Tool Name and Serial Number
 ARC825 Calibration Status

ARC8 – AA 8026
 -

8.25-in. Array Resistivity Compensated Calibration

Resistivity: Air

Phase	Phase-Shift T1	Value	Phase	Phase-Shift T2	Value	Phase	Phase-Shift T3	Value
Master		0.02420	Master		0.4614	Master		-0.1478
	-3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)			-3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)			-3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)	
Phase	Phase-Shift T4	Value	Phase	Phase-Shift T5	Value	Phase	Phase-Shift T1 at 400KHz	Value
Master		0.1925	Master		-0.3114	Master		-0.3613
	-3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)			-3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)			-3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)	
Phase	Phase-Shift T2 at 400KHz	Value	Phase	Phase-Shift T3 at 400KHz	Value	Phase	Phase-Shift T4 at 400KHz	Value
Master		0.5359	Master		-0.6794	Master		0.3575
	-3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)			-3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)			-3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)	
Phase	Phase-Shift T5 at 400KHz	Value						
Master		-0.4279						
	-3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)							

8.25-in. Array Resistivity Compensated Calibration

Resistivity: Air

Phase	Attenuation T1	Value	Phase	Attenuation T2	Value	Phase	Attenuation T3	Value
Master		7.421	Master		7.380	Master		4.073
	6.500 (Minimum) 8.500 (Nominal) 10.50 (Maximum)			4.500 (Minimum) 6.500 (Nominal) 8.500 (Maximum)			2.500 (Minimum) 4.500 (Nominal) 6.500 (Maximum)	
Phase	Attenuation T4	Value	Phase	Attenuation T5	Value	Phase	Attenuation T1 at 400KHz	Value
Master		5.267	Master		2.625	Master		7.436
	2.600 (Minimum) 4.600 (Nominal) 6.600 (Maximum)			1.600 (Minimum) 3.600 (Nominal) 5.600 (Maximum)			6.500 (Minimum) 8.500 (Nominal) 10.50 (Maximum)	
Phase	Attenuation T2 at 400KHz	Value	Phase	Attenuation T3 at 400KHz	Value	Phase	Attenuation T4 at 400KHz	Value
Master		7.260	Master		4.126	Master		5.256
	4.500 (Minimum) 6.500 (Nominal) 8.500 (Maximum)			2.500 (Minimum) 4.500 (Nominal) 6.500 (Maximum)			2.600 (Minimum) 4.600 (Nominal) 6.600 (Maximum)	
Phase	Attenuation T5 at 400KHz	Value						
Master		2.744						
	1.600 (Minimum) 3.600 (Nominal) 5.600 (Maximum)							

8.25-in. Array Resistivity Compensated Calibration

Gamma Ray: Blanket

Phase	Gamma ray factor (equals Calibration Gain multiplied by API Gain Factor)	CPS	Value
Master			7.296
	4.960 (Minimum)	7.200 (Nominal)	9.650 (Maximum)

6.75-in. Array Resistivity Compensated / Equipment Identification

Primary Equipment:
Tool Name and Serial Number
ARC675 Calibration Status

ARC6 - BA 99
-

6.75-in. Array Resistivity Compensated Calibration

Resistivity: Air

Phase	Phase-Shift T1	Value	Phase	Phase-Shift T2	Value	Phase	Phase-Shift T3	Value
Master		-1.300	Master		1.567	Master		-1.481
	-3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)			-3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)			-3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)	

Phase	Phase-Shift T4	Value	Phase	Phase-Shift T5	Value	Phase	Phase-Shift T1 at 400KHz	Value
Master		1.451	Master		-1.402	Master		-1.723
	-3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)			-3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)			-3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)	
Phase	Phase-Shift T2 at 400KHz	Value	Phase	Phase-Shift T3 at 400KHz	Value	Phase	Phase-Shift T4 at 400KHz	Value
Master		1.969	Master		-1.814	Master		1.966
	-3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)			-3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)			-3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)	
Phase	Phase-Shift T5 at 400KHz	Value						
Master		-1.824						
	-3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)							

Master: 21-Sep-2004 3:35								
6.75-in. Array Resistivity Compensated Calibration								
Resistivity: Air								
Phase	Attenuation T1	Value	Phase	Attenuation T2	Value	Phase	Attenuation T3	Value
Master		8.281	Master		6.704	Master		4.911
	6.500 (Minimum) 8.500 (Nominal) 10.50 (Maximum)			4.500 (Minimum) 6.500 (Nominal) 8.500 (Maximum)			2.500 (Minimum) 4.500 (Nominal) 6.500 (Maximum)	
Phase	Attenuation T4	Value	Phase	Attenuation T5	Value	Phase	Attenuation T1 at 400KHz	Value
Master		4.564	Master		3.414	Master		8.234
	2.600 (Minimum) 4.600 (Nominal) 6.600 (Maximum)			1.600 (Minimum) 3.600 (Nominal) 5.600 (Maximum)			6.500 (Minimum) 8.500 (Nominal) 10.50 (Maximum)	
Phase	Attenuation T2 at 400KHz	Value	Phase	Attenuation T3 at 400KHz	Value	Phase	Attenuation T4 at 400KHz	Value
Master		6.698	Master		4.859	Master		4.599
	4.500 (Minimum) 6.500 (Nominal) 8.500 (Maximum)			2.500 (Minimum) 4.500 (Nominal) 6.500 (Maximum)			2.600 (Minimum) 4.600 (Nominal) 6.600 (Maximum)	
Phase	Attenuation T5 at 400KHz	Value						
Master		3.418						
	1.600 (Minimum) 3.600 (Nominal) 5.600 (Maximum)							

Master: 21-Sep-2004 5:21		
6.75-in. Array Resistivity Compensated Calibration		
Gamma Ray: Blanket		
Phase	Gamma ray factor (equals Calibration Gain multiplied by API Gain Factor) CPS	Value
Master		5.278
	2.780 (Minimum) 4.800 (Nominal) 6.000 (Maximum)	

SCHLUMBERGER D&M

Survey report

Client.....: OMV Australia Pty. Ltd.
Field.....: Baleen

Well.....: Baleen-4 Spud date.....: 27-Sep-04
Location.....: VIC/L21 Last survey date.....: 22-Oct-04
Engineer.....: O.Radicevic, M.Saicic Total accepted surveys...: 110
MD of first survey.....: 0.00 m
Rig.....: Ocean Bounty MD of last survey.....: 2290.00 m
STATE.....: Victoria

----- Survey calculation methods ----- ----- Geomagnetic data -----
Method for positions.....: Minimum curvature Magnetic model.....: BGM version 2004
Method for DLS.....: Mason & Taylor Magnetic date.....: 28-Sep-2004
Magnetic field strength...: 1196.76 HCNT
----- Depth reference ----- Magnetic dec (+E/W-).....: 13.16 degrees
Permanent datum.....: MSL Magnetic dip.....: -68.51 degrees
Depth reference.....: Driller's Pipe Tally
GL above permanent.....: -53.10 m ----- MWD survey Reference Criteria -----
KB above permanent.....: Top Drive Reference G.....: 1000.01 mGal
DF above permanent.....: 25.00 m Reference H.....: 1196.76 HCNT
Reference Dip.....: -68.51 degrees
----- Vertical section origin ----- Tolerance of G.....: (+/-) 2.50 mGal
Latitude (+N/S-).....: 0.00 m Tolerance of H.....: (+/-) 6.00 HCNT
Departure (+E/W-).....: 0.00 m Tolerance of Dip.....: (+/-) 0.45 degrees

Platform reference point

Corrections

Latitude (+N/S-).....: 0.00 m
 Departure (+E/W-).....: 0.00 m
 Azimuth from Vsect Origin to target: 236.54 degrees
 Magnetic dec (+E/W-).....: 13.16 degrees
 Grid convergence (+E/W-).....: -0.89 degrees
 Total az corr (+E/W-).....: 14.05 degrees
 (Total az corr = magnetic dec - grid conv)
 Survey Correction Type:
 I=Sag Corrected Inclination
 M=Schlumberger Magnetic Correction
 S=Shell Magnetic Correction
 F=Failed Axis Correction
 R=Magnetic Resonance Tool Correction
 D=Dmag Magnetic Correction

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 SCHLUMBERGER Survey Report

Seq	Measured depth (m)	Incl (deg)	Course (deg)	Course (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total Displ (deg)	At 10m	DLS type	Srvy tool	Tool Corr
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	TIP	None	
2	85.50	0.72	148.00	85.50	85.50	0.01	-0.46	0.28	0.54	148.00	0.08	GYRO	None
3	114.41	0.83	148.79	28.91	114.41	0.03	-0.79	0.49	0.93	148.18	0.04	GYRO	None
4	143.28	1.06	157.74	28.87	143.27	0.09	-1.21	0.70	1.40	150.08	0.09	GYRO	None
5	172.21	1.69	173.27	28.93	172.19	0.33	-1.89	0.85	2.07	155.73	0.25	GYRO	None
6	201.10	3.17	186.11	28.89	201.06	1.03	-3.10	0.82	3.21	165.28	0.54	GYRO	None
7	23None	5.19	198.92	28.92	229.90	2.58	-5.14	0.31	5.15	176.59	0.77	GYRO	None
8	240.66	5.90	205.43	10.64	240.49	3.43	-6.09	-0.08	6.09	180.80	0.89	GYRO	None
9	250.30	6.08	217.27	9.64	250.08	4.33	-6.94	-0.61	6.97	185.00	1.29	GYRO	None
10	258.91	6.16	226.44	8.61	258.64	5.22	-7.62	-1.22	7.72	189.08	1.14	GYRO	None
11	269.55	6.32	227.70	10.64	269.21	6.36	-8.41	-2.06	8.66	193.80	0.20	GYRO	None
12	279.19	6.90	234.11	9.64	278.79	7.46	-9.10	-2.93	9.56	197.82	0.97	GYRO	None
13	287.80	7.85	242.47	8.61	287.33	8.56	-9.68	-3.87	10.42	201.78	1.66	GYRO	None
14	298.42	9.21	237.18	10.62	297.83	10.13	-10.48	-5.22	11.71	206.51	1.48	GYRO	None
15	308.05	10.10	238.53	9.63	307.33	11.75	-11.33	-6.59	13.11	210.18	0.95	GYRO	None
16	316.68	10.29	242.74	8.63	315.82	13.27	-12.08	-7.92	14.45	213.25	0.89	GYRO	None
17	327.20	10.18	241.47	10.52	326.17	15.13	-12.96	-9.57	16.11	216.46	0.24	GYRO	None
18	331.90	10.15	239.35	4.70	330.80	15.96	-13.37	-10.30	16.87	217.61	0.80	GYRO	None
19	338.44	11.15	241.24	6.54	337.23	17.16	-13.96	-11.35	17.99	219.09	1.62	GYRO	None
20	347.85	12.69	243.31	9.41	346.43	19.10	-14.87	-13.07	19.79	221.32	1.70	GYRO	None
21	356.99	14.80	245.14	9.14	355.31	21.25	-15.81	-15.02	21.81	223.54	2.36	GYRO	None
22	366.24	16.83	246.11	9.25	364.21	23.74	-16.85	-17.32	24.16	225.79	2.21	GYRO	None
23	375.50	18.93	247.36	9.26	373.02	26.54	-17.97	-19.93	26.84	227.97	2.31	GYRO	None
24	385.68	21.05	245.80	10.18	382.59	29.96	-19.35	-23.12	30.15	230.07	2.15	GYRO	None
25	393.95	23.12	244.79	8.27	390.25	33.04	-20.65	-25.95	33.16	231.48	2.54	GYRO	None
26	403.21	25.13	243.56	9.26	398.70	36.79	-22.30	-29.35	36.87	232.77	2.24	GYRO	None
27	412.35	27.12	242.95	9.14	406.91	40.78	-24.12	-32.95	40.83	233.80	2.20	GYRO	None
28	421.51	29.19	241.96	9.16	414.98	45.08	-26.12	-36.78	45.11	234.62	2.32	GYRO	None
29	430.70	31.35	242.55	9.19	422.92	49.69	-28.27	-40.88	49.70	235.33	2.37	GYRO	None
30	439.89	33.43	241.60	9.19	430.68	54.59	-30.58	-45.23	54.59	235.94	2.33	GYRO	None
31	449.94	35.39	241.28	10.05	438.97	60.25	-33.29	-50.22	60.25	236.46	1.96	GYRO	None
32	468.29	39.80	240.85	18.35	453.51	71.41	-38.71	-60.01	71.41	237.18	2.41	GYRO	None
33	477.94	41.95	240.56	9.65	460.80	77.70	-41.80	-65.52	77.71	237.46	2.24	GYRO	None
34	487.58	44.05	239.96	9.64	467.85	84.26	-45.06	-71.22	84.28	237.68	2.22	GYRO	None
35	497.20	46.23	239.87	9.62	474.64	91.07	-48.48	-77.12	91.10	237.85	2.27	GYRO	None
36	516.42	50.04	239.89	19.22	487.46	105.36	-55.66	-89.50	105.40	238.12	1.98	GYRO	None
37	535.75	54.20	239.30	19.33	499.33	120.59	-63.38	-102.66	120.65	238.31	2.17	GYRO	None
38	545.39	56.25	239.90	9.64	504.83	128.50	-67.39	-109.49	128.56	238.39	2.19	GYRO	None
39	555.03	58.27	239.89	9.64	510.04	136.59	-71.46	-116.50	136.67	238.48	2.10	GYRO	None
40	564.67	60.27	239.99	9.64	514.97	144.86	-75.61	-123.67	144.95	238.56	2.08	GYRO	None
41	574.28	62.30	240.43	9.61	519.58	153.27	-79.79	-130.99	153.38	238.65	2.15	GYRO	None
42	583.92	64.31	241.44	9.64	523.91	161.86	-83.98	-138.51	161.98	238.77	2.29	GYRO	None
43	593.56	64.94	241.50	9.64	528.04	170.54	-88.14	-146.17	170.68	238.91	0.66	GYRO	None
44	603.17	65.46	242.25	9.61	532.08	179.22	-92.25	-153.86	179.40	239.05	0.89	GYRO	None
45	612.79	67.36	242.52	9.62	535.92	187.99	-96.33	-161.67	188.20	239.21	1.99	GYRO	None
46	622.42	69.45	243.10	9.63	539.47	196.89	-100.43	-169.64	197.13	239.37	2.24	GYRO	None
47	632.05	71.85	243.39	9.63	542.66	205.92	-104.52	-177.75	206.20	239.54	2.51	GYRO	None
48	641.65	73.95	242.70	9.60	545.48	215.03	-108.67	-185.93	215.36	239.69	2.29	GYRO	None
49	651.26	76.30	241.46	9.61	547.95	224.28	-113.02	-194.13	224.64	239.79	2.74	GYRO	None
50	660.89	77.49	241.55	9.63	550.13	233.62	-117.50	-202.38	234.01	239.86	1.24	GYRO	None
51	670.52	78.54	240.82	9.63	552.13	243.01	-122.04	-210.63	243.43	239.91	1.32	GYRO	None
52	680.16	80.37	240.13	9.64	553.90	252.46	-126.71	-218.88	252.91	239.93	2.02	GYRO	None
53	689.79	81.27	240.34	9.63	555.43	261.95	-131.43	-227.13	262.41	239.94	0.96	GYRO	None
54	702.00	82.61	240.96	12.21	557.14	274.01	-137.35	-237.67	274.50	239.98	1.21	GYRO	None
55	731.61	82.57	242.66	29.61	560.96	303.24	-151.22	-263.54	303.85	240.15	0.57	MWD-I	0.02
56	760.44	83.41	243.48	28.83	564.48	331.67	-164.18	-289.06	332.43	240.40	0.41	MWD-I	0.02
57	789.80	83.92	243.72	29.36	567.72	360.63	-177.16	-315.19	361.57	240.66	0.19	MWD-I	0.02
58	819.61	84.33	243.67	29.81	570.77	390.06	-190.30	-341.78	391.18	240.89	0.14	MWD-I	0.02
59	848.28	84.04	242.61	28.67	573.68	418.39	-203.19	-367.22	419.68	241.04	0.38	MWD-I	0.02
60	878.56	83.78	242.74	30.28	576.89	448.32	-217.01	-393.97	449.78	241.15	0.10	MWD-I	0.02
61	906.63	82.77	242.44	28.07	580.18	476.05	-229.84	-418.72	477.65	241.24	0.38	MWD-I	0.02

62	935.67	82.34	241.95	29.04	583.94	504.70	-243.27	-444.19	506.44	241.29	0.22	MWD-I	0.02
63	964.49	82.74	241.30	28.82	587.68	533.16	-256.85	-469.33	535.02	241.31	0.26	MWD-I	0.02
64	993.19	82.08	241.48	28.70	591.47	561.51	-270.47	-494.30	563.46	241.31	0.24	MWD-I	0.02
65	1022.00	80.63	241.42	28.81	595.80	589.89	-284.09	-519.32	591.95	241.32	0.50	MWD-I	0.02
66	1050.01	79.81	241.45	28.01	600.56	617.39	-297.28	-543.57	619.55	241.33	0.29	MWD-I	0.02
67	1079.00	79.87	241.49	28.99	605.68	645.82	-310.91	-568.64	648.08	241.33	0.02	MWD-I	0.02
68	1108.15	80.17	241.77	29.15	610.73	674.42	-324.55	-593.90	676.79	241.34	0.14	MWD-I	0.02
69	1136.63	79.87	241.60	28.48	615.66	702.35	-337.86	-618.59	704.84	241.36	0.12	MWD-I	0.02
70	1164.16	79.81	241.74	27.53	620.52	729.34	-350.72	-642.44	731.94	241.37	0.05	MWD-I	0.02
71	1195.46	80.42	241.80	31.30	625.89	760.05	-365.30	-669.61	762.77	241.39	0.20	MWD-I	0.02
72	1223.16	81.00	241.65	27.70	630.36	787.27	-378.25	-693.68	790.11	241.40	0.22	MWD-I	0.02
73	1249.70	82.16	240.03	26.54	634.25	813.45	-391.05	-716.61	816.36	241.38	0.75	MWD-I	0.02
74	1283.50	83.04	237.45	33.80	638.60	846.94	-408.44	-745.26	849.84	241.28	0.80	MWD-I	0.01
75	1310.16	83.29	235.43	26.66	641.78	873.41	-423.07	-767.32	876.22	241.13	0.76	MWD-I	0.02
76	1334.84	83.23	233.85	24.68	644.67	897.91	-437.25	-787.30	900.58	240.95	0.64	MWD-I	0.02
77	1364.84	83.14	233.59	30.00	648.23	927.66	-454.88	-811.32	930.13	240.72	0.09	MWD-I	0.03
78	1394.75	82.73	233.54	29.91	651.91	957.30	-472.51	-835.20	959.59	240.50	0.14	MWD-I	0.03
79	1424.29	81.77	233.40	29.54	655.90	986.53	-489.93	-858.72	988.65	240.29	0.33	MWD-I	0.02
80	1452.78	81.47	233.04	28.49	660.05	1014.67	-506.81	-881.29	1016.63	240.10	0.16	MWD-I	0.02
81	1481.47	81.43	232.20	28.69	664.31	1042.97	-524.03	-903.84	1044.76	239.90	0.29	MWD-I	0.02
82	1508.70	81.53	231.80	27.23	668.35	1069.82	-540.61	-925.06	1071.44	239.70	0.15	MWD-I	0.02
83	1535.81	81.67	231.24	27.11	672.31	1096.53	-557.30	-946.05	1098.00	239.50	0.21	MWD-I	0.02
84	1562.22	81.87	230.85	26.41	676.09	1122.55	-573.73	-966.38	1123.86	239.30	0.16	MWD-I	0.02
85	1591.19	82.39	231.01	28.97	680.06	1151.11	-591.82	-988.66	1152.26	239.09	0.19	MWD-I	0.02
86	1619.48	82.42	230.70	28.29	683.79	1179.01	-609.52	-1010.41	1180.01	238.90	0.11	MWD-I	0.02
87	1646.78	81.70	230.29	27.30	687.57	1205.90	-626.72	-1031.27	1206.77	238.71	0.30	MWD-I	0.02
88	1677.16	80.92	230.59	30.38	692.16	1235.76	-645.85	-1054.42	1236.50	238.51	0.27	MWD-I	0.02
89	1707.15	80.69	230.54	29.99	696.95	1265.21	-664.65	-1077.28	1265.82	238.33	0.08	MWD-I	0.02
90	1736.63	81.59	230.66	29.48	701.49	1294.18	-683.14	-1099.79	1294.69	238.15	0.31	MWD-I	0.02
91	1765.16	83.00	231.09	28.53	705.31	1322.31	-700.98	-1121.73	1322.74	238.00	0.52	MWD-I	0.02
92	1793.80	84.76	231.63	28.64	708.37	1350.67	-718.76	-1143.97	1351.03	237.86	0.64	MWD-I	0.02
93	1821.68	86.72	232.17	27.88	710.44	1378.38	-735.92	-1165.85	1378.68	237.74	0.73	MWD-I	0.01
94	1851.10	88.88	232.86	29.42	711.57	1407.71	-753.81	-1189.17	1407.96	237.63	0.77	MWD-I	0.03
95	1873.21	89.38	232.65	22.11	711.90	1429.76	-767.19	-1206.77	1429.99	237.55	0.25	MWD-I	0.02
96	1904.82	88.39	232.85	31.61	712.52	1461.30	-786.31	-1231.93	1461.48	237.45	0.32	MWD	None
97	1933.88	88.28	232.85	29.06	713.36	1490.29	-803.86	-1255.08	1490.44	237.36	0.04	MWD	None
98	1962.47	89.05	233.43	28.59	714.03	1518.82	-821.00	-1277.95	1518.95	237.28	0.34	MWD	None
99	2000.17	89.31	233.58	37.70	714.57	1556.46	-843.42	-1308.25	1556.56	237.19	0.08	MWD	None
100	2029.18	89.63	234.03	29.01	714.84	1585.44	-860.55	-1331.66	1585.52	237.13	0.19	MWD	None
101	2058.39	89.74	233.39	29.21	715.00	1614.61	-877.84	-1355.21	1614.68	237.07	0.22	MWD	None
102	2087.22	89.54	233.14	28.83	715.18	1643.39	-895.08	-1378.31	1643.45	237.00	0.11	MWD	None
103	2115.64	90.11	233.12	28.42	715.26	1671.76	-912.14	-1401.05	1671.80	236.93	0.20	MWD	None
104	2144.55	89.40	233.24	28.91	715.39	1700.62	-929.46	-1424.19	1700.65	236.87	0.25	MWD	None
105	2173.03	88.94	233.45	28.48	715.80	1729.05	-946.46	-1447.03	1729.07	236.81	0.18	MWD	None
106	2201.69	89.17	233.55	28.66	716.27	1757.67	-963.51	-1470.07	1757.68	236.76	0.09	MWD	None
107	2230.24	89.31	233.75	28.55	716.65	1786.18	-980.43	-1493.06	1786.19	236.71	0.09	MWD	None
108	2263.70	89.77	234.05	33.46	716.92	1819.61	-1000.14	-1520.10	1819.61	236.66	0.16	MWD	None
109	2272.56	90.14	234.01	8.86	716.93	1828.46	-1005.35	-1527.27	1828.46	236.64	0.42	MWD	None
110	2290.00	89.70	234.00	17.44	716.95	1845.88	-1015.60	-1541.38	1845.88	236.62	0.25	Proj. to TD	

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Company:	OMV Australia Pty Ltd	Schlumberger
Well:	Baleen-4	
Field:	Baleen Field	
Rig:	Ocean Bounty	
State:	Victoria	
VISION Resistivity – 400kHz – Borehole Corrected		
1:200 True Vertical Depth		
Recorded Memory Data		

