

<p style="text-align: center;">DISCLAIMER</p> <p>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.</p>		
<p>OTHER SERVICES FOR RUN1 MWD Surveys</p>	<p>OTHER SERVICES FOR RUN2 MWD Surveys</p>	<p>OTHER SERVICES FOR RUN</p>
<p>REMARKS: RUN NUMBER 1 The data presented is from the tool memory. There was barrite in the mud. The ARC gamma ray is corrected for bit size, mud weight, collar thickness and potassium content. The ARC resistivity is borehole compensated but not environmentally corrected. Interval drilled from 849m – 1580m. Interval logged from 790m – 1558m.</p>	<p>REMARKS: RUN NUMBER 2 The data presented is from the tool memory. There was barrite in the mud. The CDR gamma ray is corrected for bit size, mud weight and collar thickness. The CDR resistivity is borehole compensated but not environmentally corrected. Interval drilled from 1580m – 1905m. Interval logged from 1555m – 1884m. Run objective: drill vertically to TD.</p>	<p>REMARKS: RUN NUMBER</p>

Interval logged from 790m – 1558m.

Run objective: drill vertically to TD.
POOH: low ROP due to worn bit.

Loss of realtime ARC communication at 820m
due to high shocks encountered when
drilling shoetrack with seawater.
ARC transmitter failure from 820m – 944m
due to high shocks encountered when
drilling shoetrack with seawater.

Run objective: drill vertically to TD.
POOH: after reaching TD at 1905m.

ARC tool from Run 1 laid out and backup
CDR tool picked up.
P28H_UNC corresponds to PSR.
A28H_UNC corresponds to ATR.

EQUIPMENT DESCRIPTION

RUN1

RUN2

RUN

DOWNHOLE EQ

DOWNHOLE E

PowerPuls
Software ver

33.3

D&I
GR

29.1
28.5

ARC8 #8

Software ver

R-O P
T5
T3
T1
Receiv
Gamma
T2
T4
ARC AP

22.6
22.5
22.2
21.9
21.5
21.4
21.2
20.9
20.7

12 1/4 in. St
207A3

19.1

8 1/4 in. Drill
144-

16.7

PowerPuls
Software ver

35.6

D&I

31.3

CDR9 #9

Software ver

Gamma
R-O P
Pressu
Upper
Receiv
Lower

24.9
22.5
22.1
21.5
21.4
21.2

12 1/4 in. St
207A3

19.1

8 1/4 in. Drill
144-

16.7

GR											
Mud weight	ppg	9.8	9.8								
Bit size	in.	12 1/4	12 1/4								
Resistivity											
Neutron porosity											
Hole Size	in.	12 1/4	12 1/4								
Mud weight	ppg	9.8	9.8								
Temperature	degC	63	67								
Mud salinity	mg/l	58,575	58,575								
Formation salinity											
Recording rate 1	SEC	10	10	GR							
Recording rate 2	SEC	10	10	Res							
Filtering GR		3	3								
Filtering density		n/a	n/a								
Filtering Neutron		n/a	n/a								
Company representative		B.Brigby	G.Starkey	T.Basset							
Anadrill personnel		W.Bertheux	C.Borbas	K.Handley							

IDF

CDR	IDEAL Version: ID7 0C 02	MWD 10	IDEAL Version: ID7 0C 02
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Format: CDR/ARC RM LOG 1:500 Vertical Scale: 1:500 Graphics File Created: 07-Aug-2002 09:52

Parameters

DLIS Name

Description

Value

BS RM

Bit Size (RM)

12.250

in

DO

Depth Offset

0.

m

MW_RM

Mud Weight (RM)

9.800

lbm/gal

PLATEAU

CDR: Plateau GR sensor

YES

PIP SUMMARY

ARC Resistivity Samples

ARC Gamma Ray Samples

CDR Gamma Ray Samples

- CDR Resistivity Samples

CDR Resistivity Time After Bit (TAB_
CDR_RES)

0 (HR) 10

Rate of Penetration, Averaged over Last 5ft (ROP5_RM)	
ROP5_RM	0.0000

200 (M/HR) 0

ARC Resistivity Time After Bit (TAB_
ARC_RES)

0 (HR) 10

CDR Gamma Ray (GR_CDR)

0 (GAPI) 200

ARC Gamma Ray (GR_ARC)

0 (GAPI) 200

Uncorrected Phase Shift Resistivity (PSR)

0.2	(OHMM)	2000
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ARC Non-BH Corr Attenuation Resistivity 28-in. at 2 MHz (A28H_UNC)
0.2 (OHMM) 2000

ARC Non-BHCorr Phase-Shift Resistivity 28-in. at 2 MHz (P28H UNC)

0.2 (OHMM) 2000

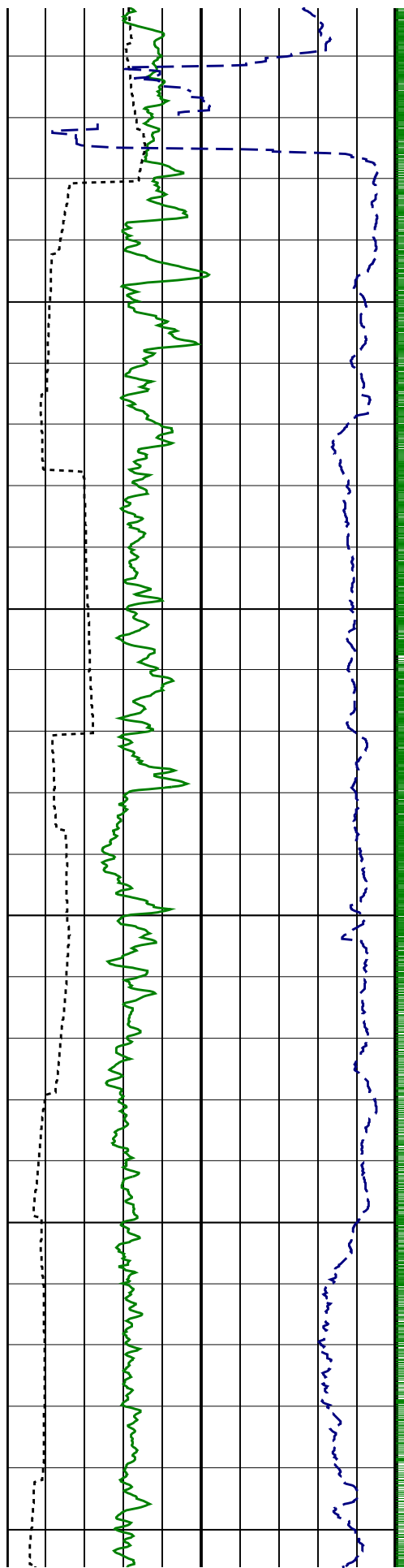
Uncorrected Attenuation Resistivity (ATR)

0.2 (OHMM) 2000

ARC resistivity transmitter failure due to high shock when drilling shoetrack

Casing Shoe

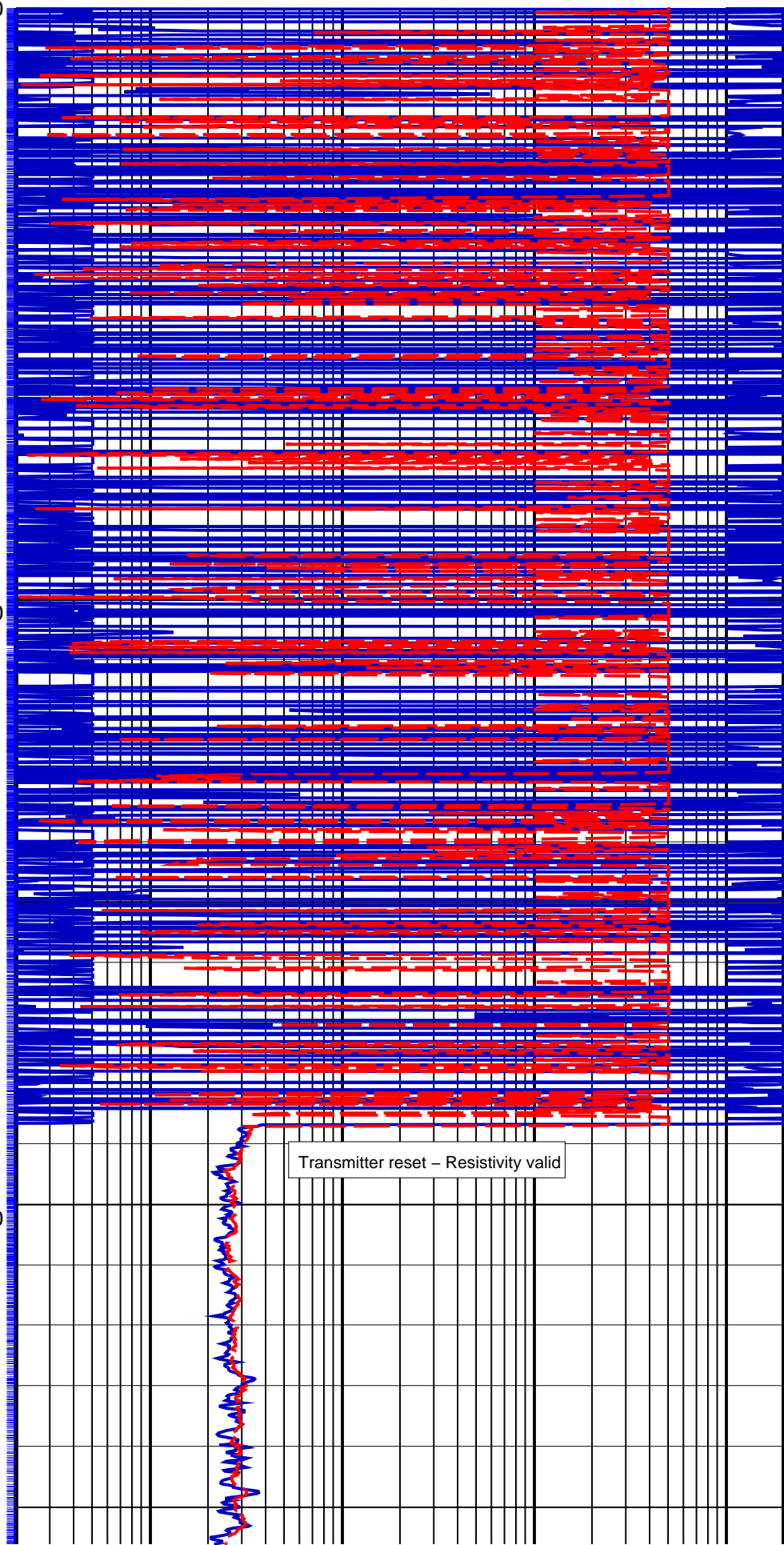
850

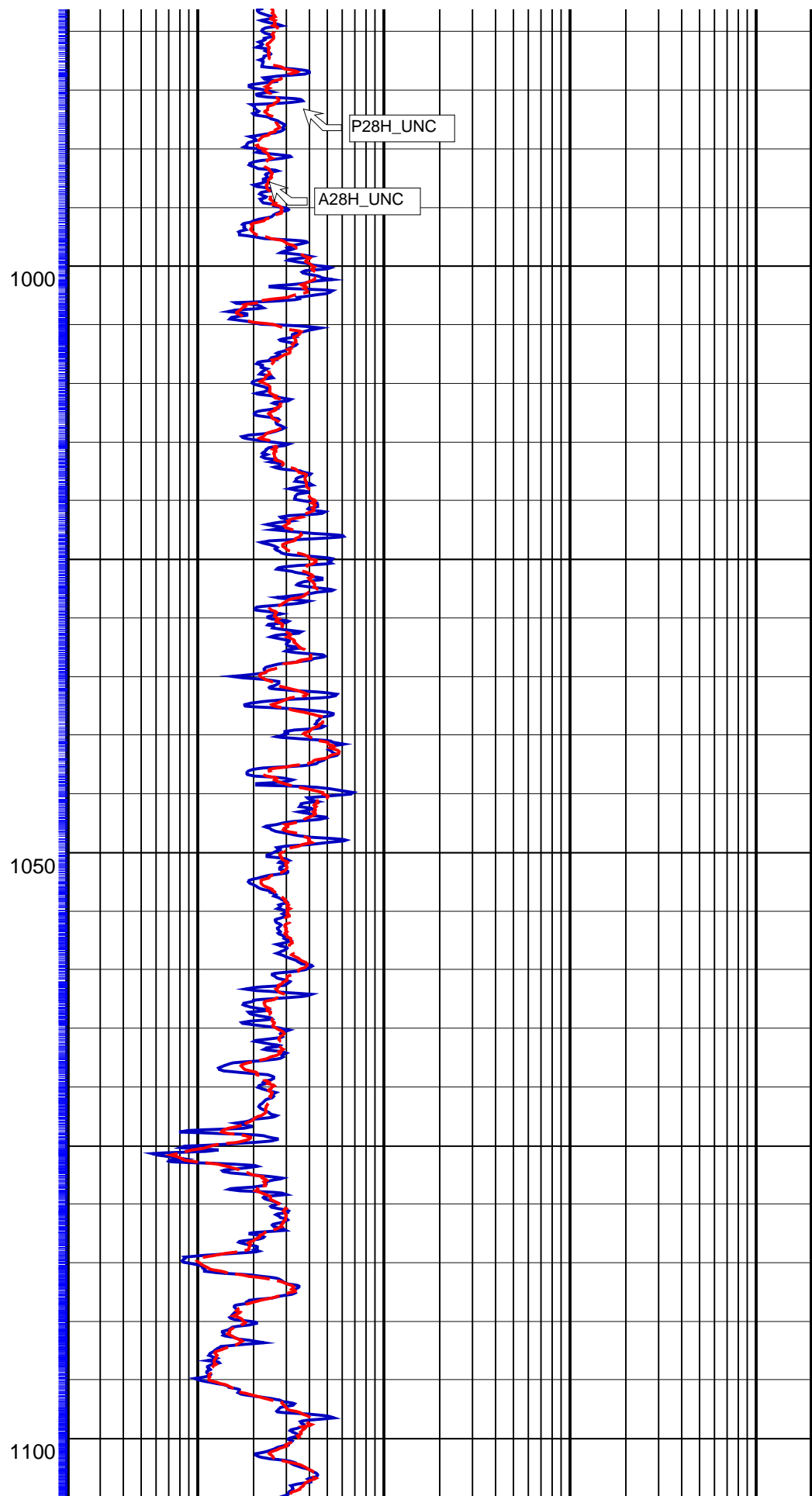
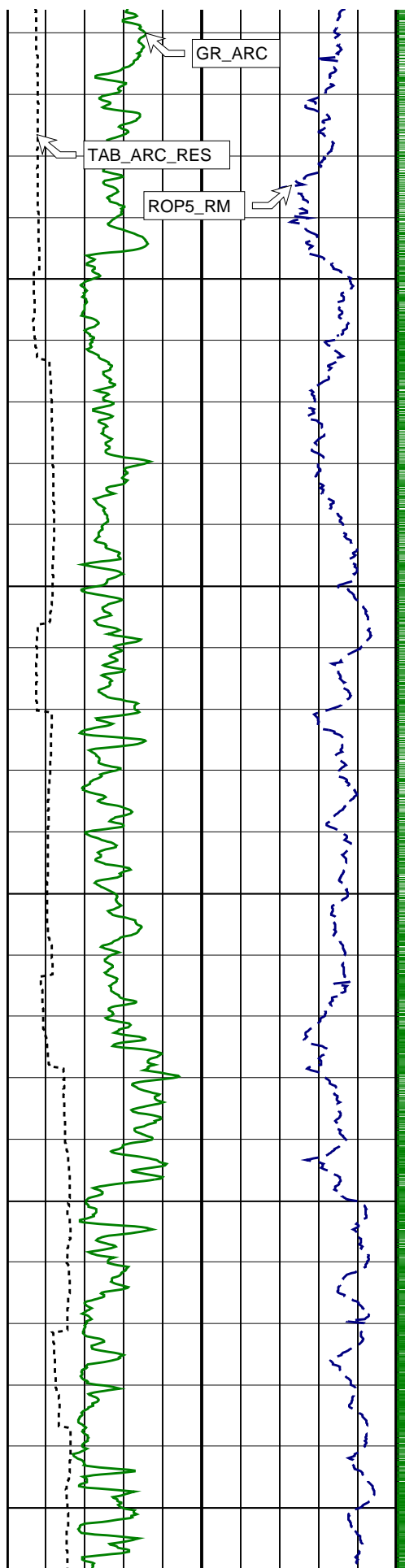


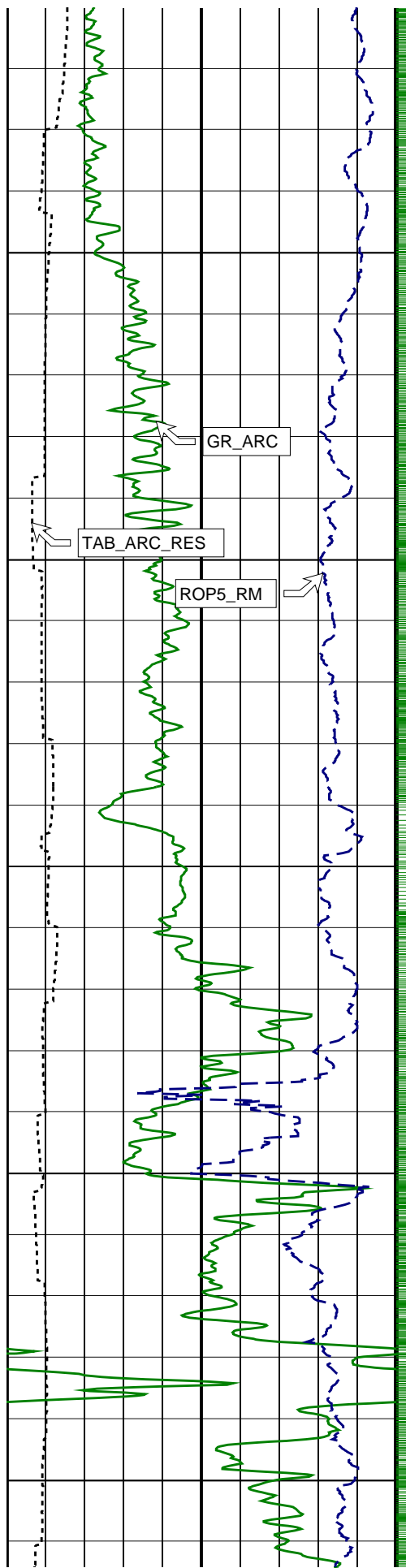
850

900

950

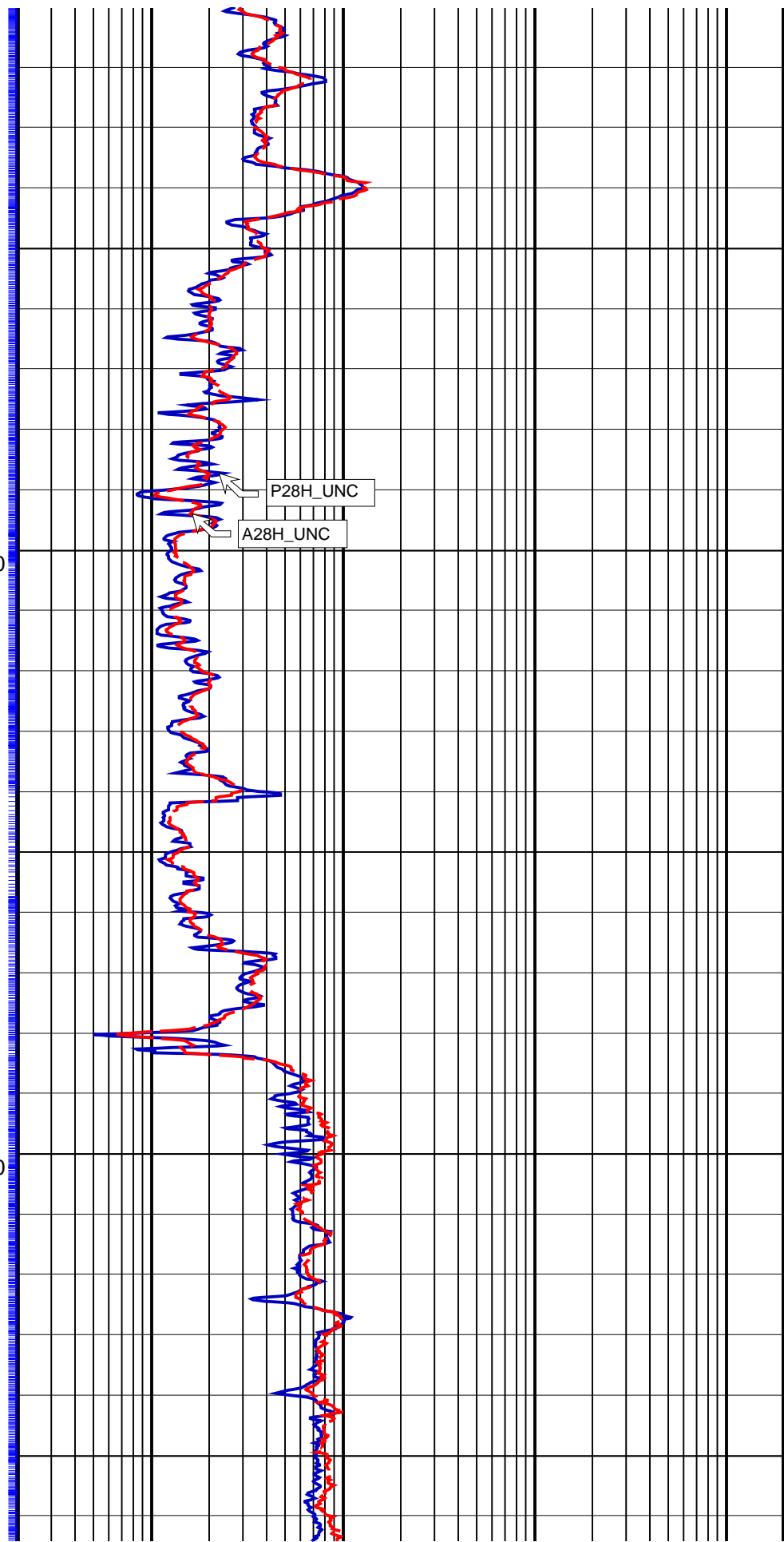


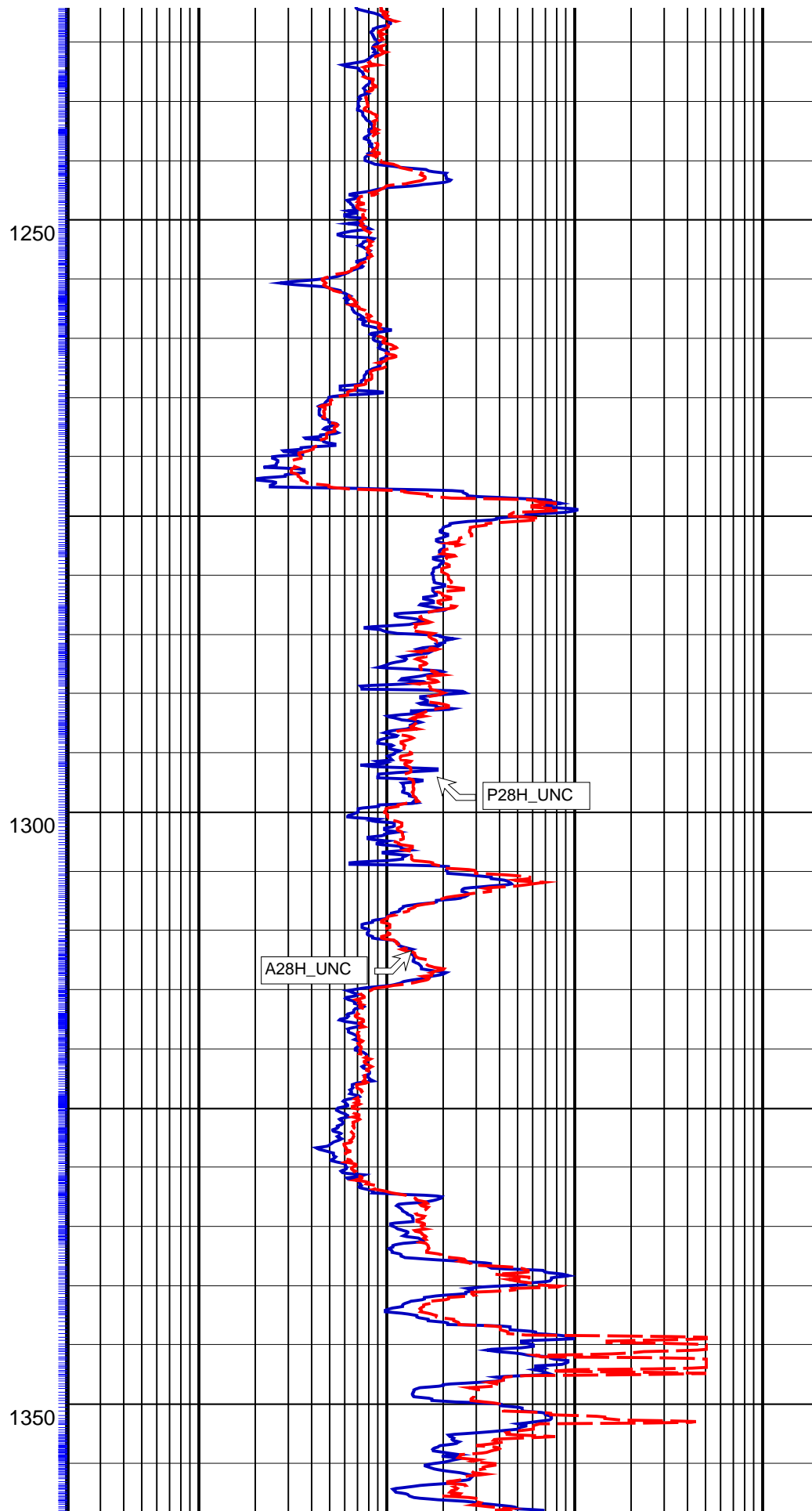
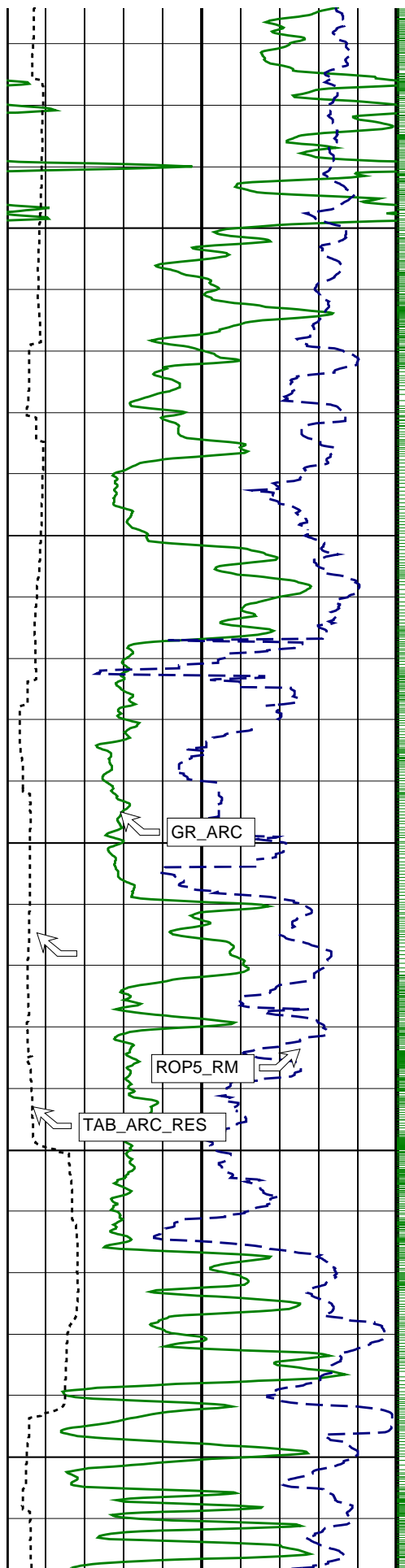


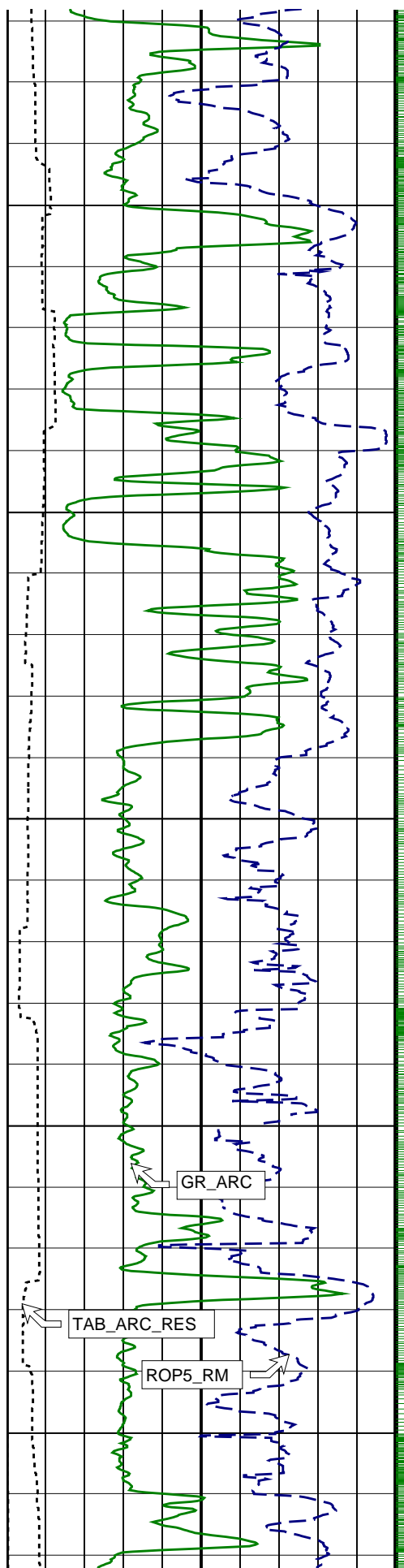


1150

1200

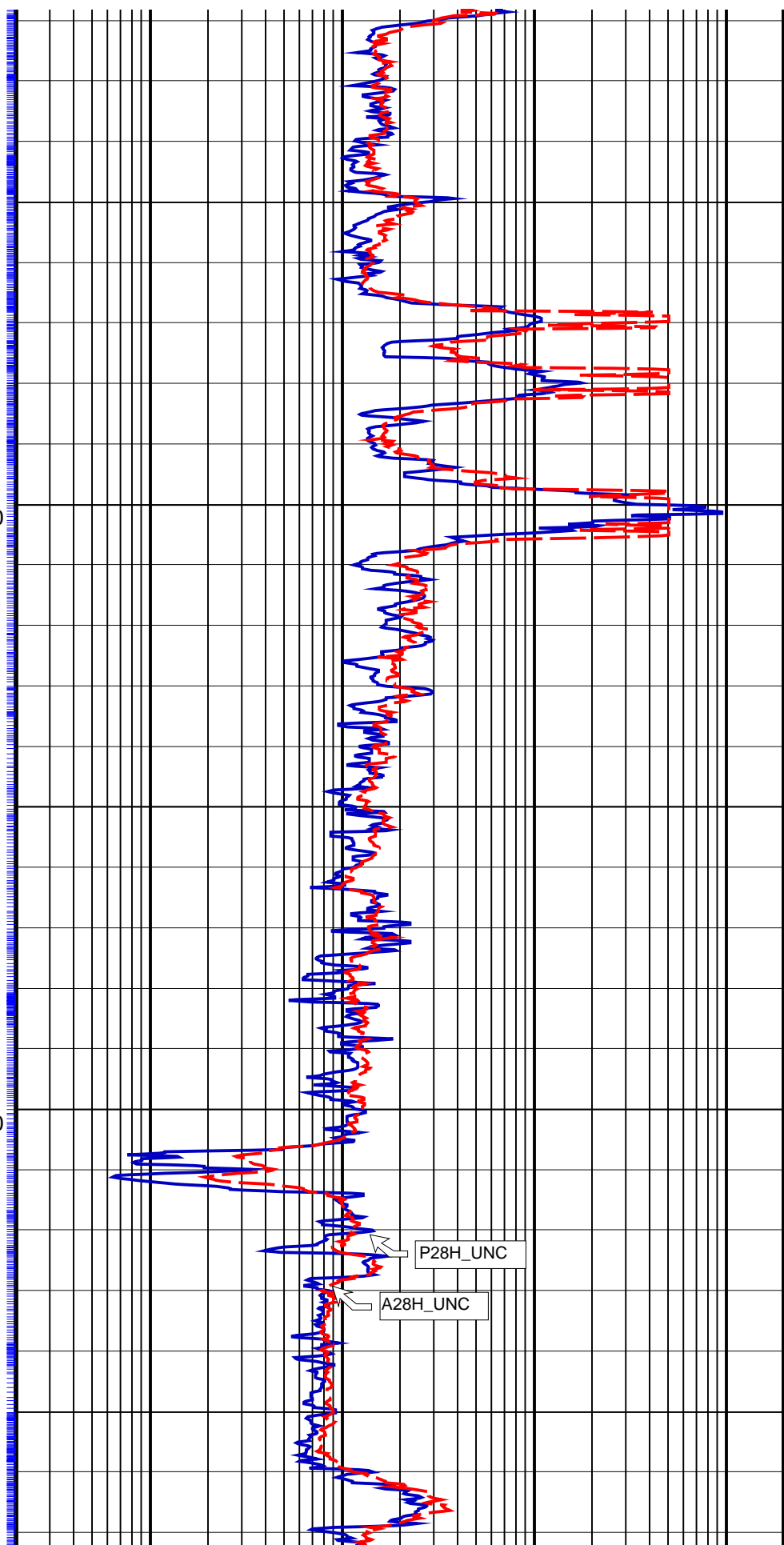


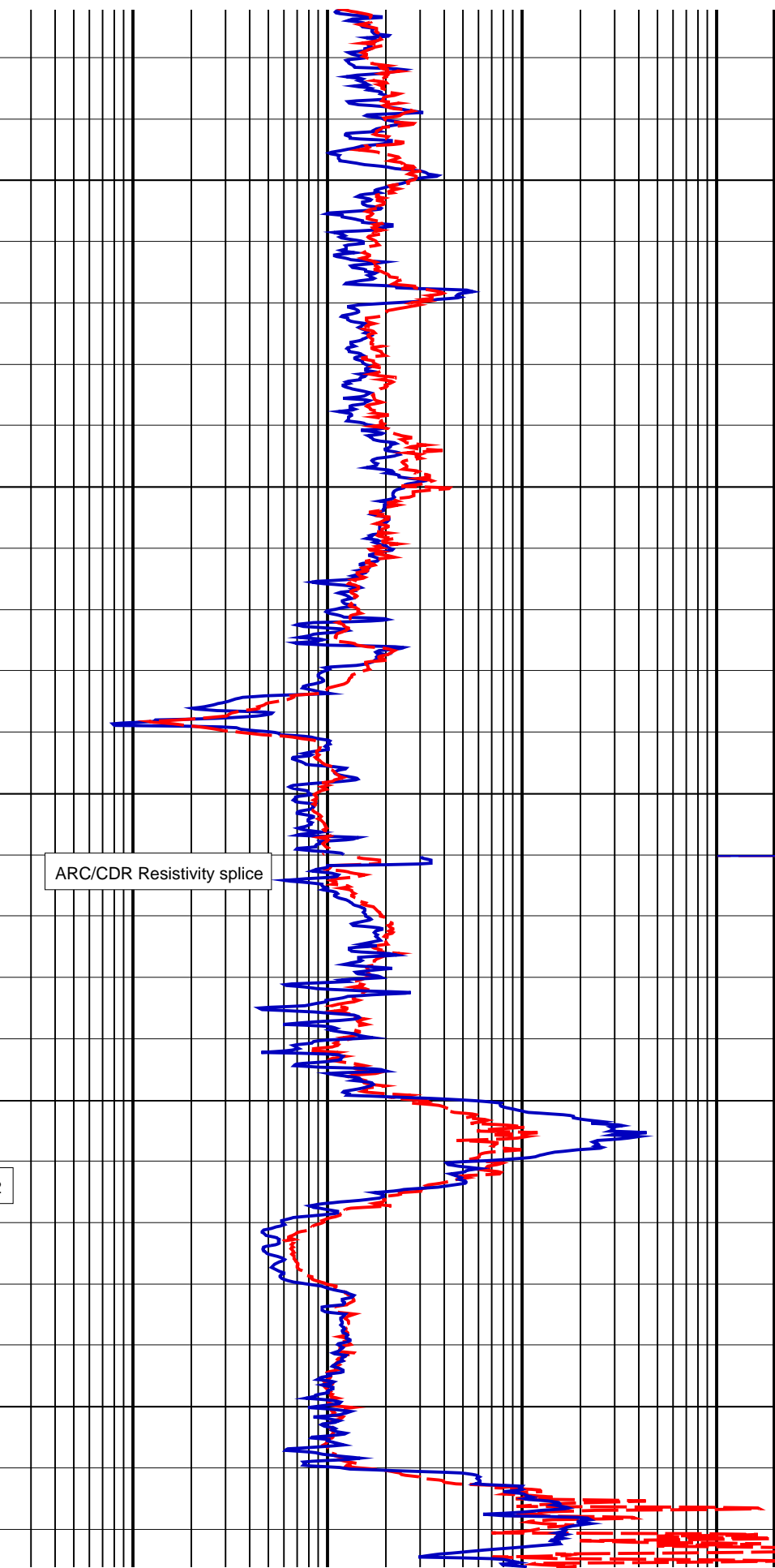
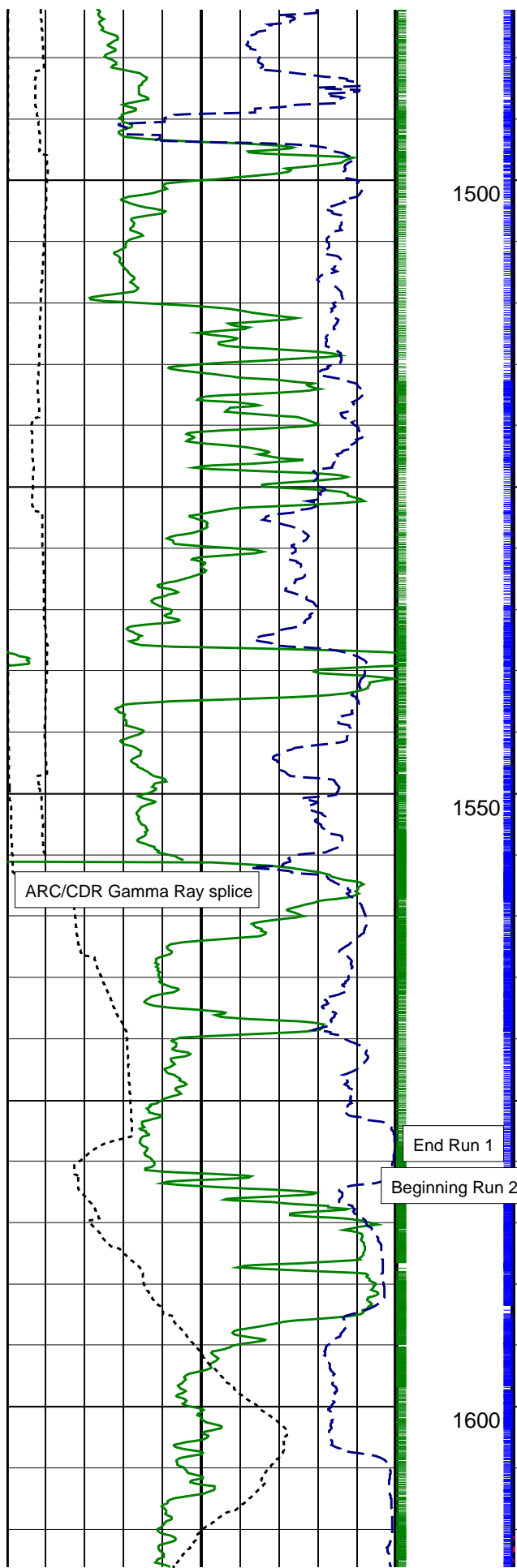


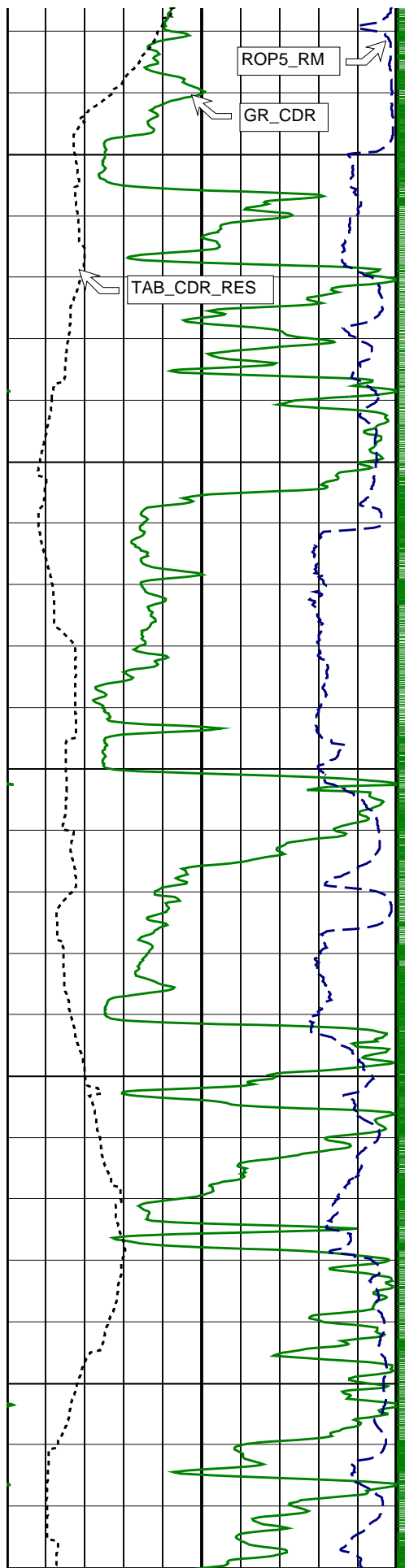


1400

1450

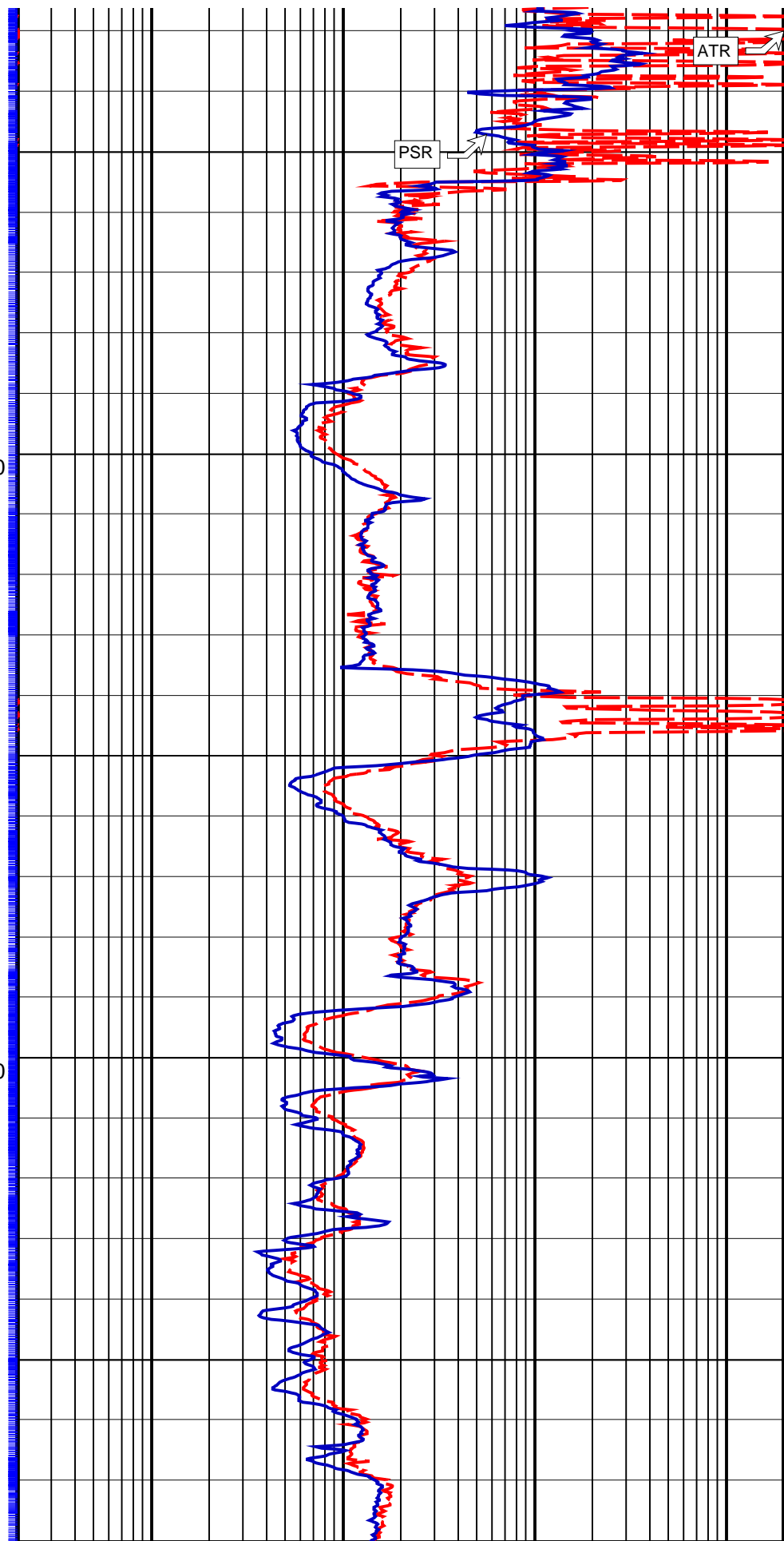


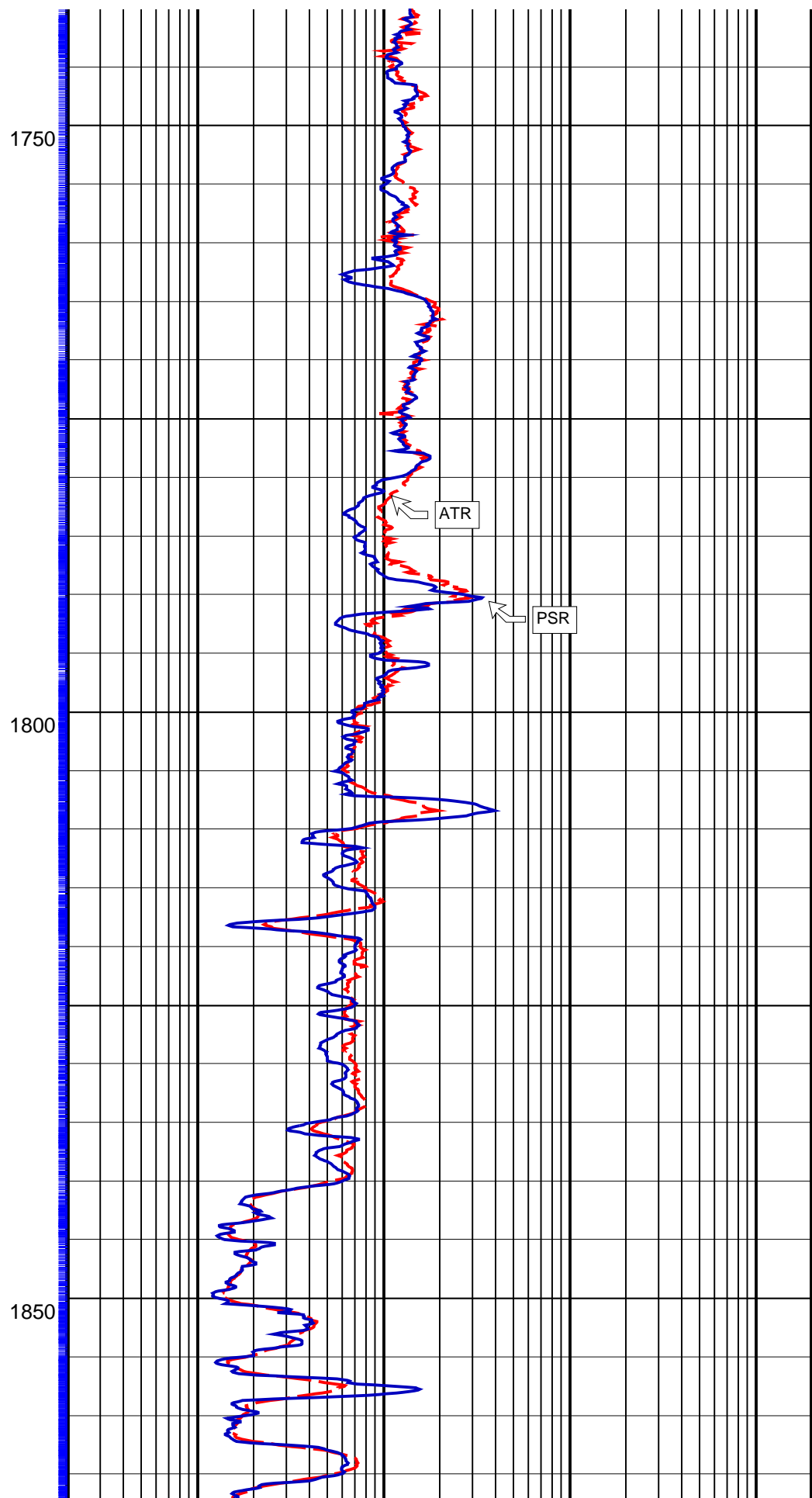
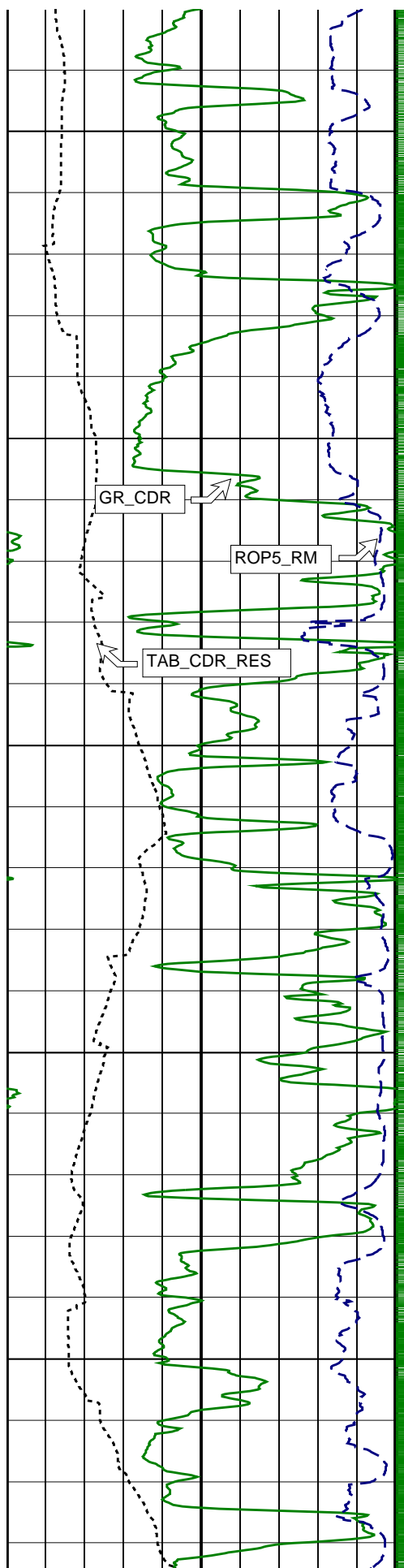


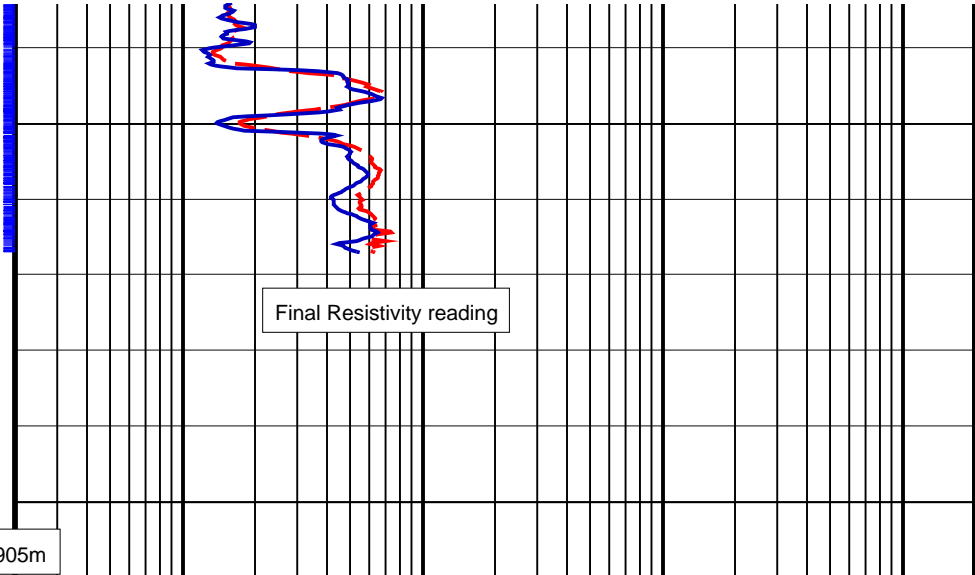
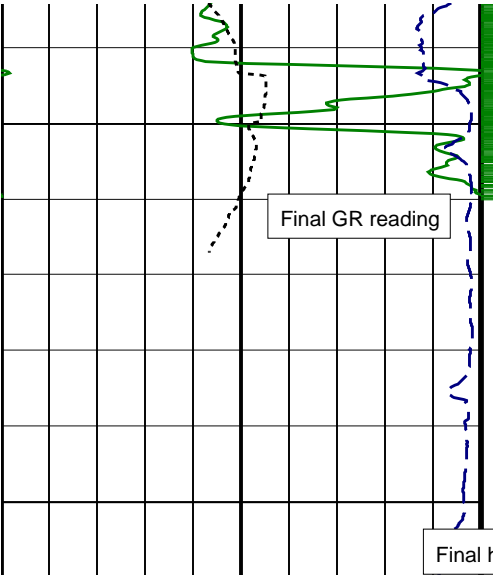


1650

1700







ARC Gamma Ray (GR_ARC)		
0	(GAPI)	200
CDR Gamma Ray (GR_CDR)		
0	(GAPI)	200
ARC Resistivity Time After Bit (TAB_ARC_RES)		
0	(HR)	10
Rate of Penetration, Averaged over Last 5ft (ROP5_RM)		
200	(M/HR)	0
CDR Resistivity Time After Bit (TAB_CDR_RES)		
0	(HR)	10

Uncorrected Attenuation Resistivity (ATR)		
0.2	(OHMM)	2000
ARC Non-BHCorr Phase-Shift Resistivity 28-in. at 2 MHz (P28H_UNC)		
0.2	(OHMM)	2000
ARC Non-BHCorr Attenuation Resistivity 28-in. at 2 MHz (A28H_UNC)		
0.2	(OHMM)	2000
Uncorrected Phase Shift Resistivity (PSR)		
0.2	(OHMM)	2000

PIP SUMMARY

- + ARC Resistivity Samples
- + ARC Gamma Ray Samples
- + CDR Gamma Ray Samples
- + CDR Resistivity Samples

IDEAL Version: ID7_0C_02
IDF

CDR IDEAL Version: ID7_0C_02 MWD_10 IDEAL Version: ID7_0C_02

8.25-in. Array Resistivity Compensated / Equipment Identification

Primary Equipment:
Tool Name and Serial Number
ARC825 Calibration Status

ARC5 - 825
Done

Master: 9-May-2002 23:20

8.25-in. Array Resistivity Compensated Calibration

Resistivity: Air

Phase	Phase-Shift T1	DEG	Value	Phase	Phase-Shift T2	DEG	Value	Phase	Phase-Shift T3	DEG	Value
Master			-0.05300	Master			1.356	Master			-0.5005

Master				Master				Master			
-0.05300				1.356				-0.5005			
<div><div></div><div></div><div></div></div>				<div><div></div><div></div><div></div></div>				<div><div></div><div></div><div></div></div>			
-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 DEG		Value	Phase	Phase-Shift T5 DEG		Value	Phase	Phase-Shift T1 at 400KHz DEG		Value
Master	<div><div></div><div></div><div></div></div>		0.8290	Master	<div><div></div><div></div><div></div></div>		-0.7850	Master	<div><div></div><div></div><div></div></div>		-0.06700
-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 DEG		Value	Phase	Phase-Shift T3 at 400KHz DEG		Value	Phase	Phase-Shift T4 at 400KHz DEG		Value
Master	<div><div></div><div></div><div></div></div>		0.7060	Master	<div><div></div><div></div><div></div></div>		-0.3930	Master	<div><div></div><div></div><div></div></div>		0.8680
-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 DEG		Value								
Master	<div><div></div><div></div><div></div></div>		-0.5750								
-3.900 (Minimum) 0.1000 (Nominal) 4.100 (Maximum)											

Master: 9-May-2002 23:20														
8.25-in. Array Resistivity Compensated Calibration														
Resistivity: Air														
Phase	Attenuation T1 DB			Value	Phase	Attenuation T2 DB			Value	Phase	Attenuation T3 DB			Value
Master	<div><div></div><div></div><div></div></div>			7.866	Master	<div><div></div><div></div><div></div></div>			6.785	Master	<div><div></div><div></div><div></div></div>			4.630
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 DB			Value	Phase	Attenuation T5 DB			Value	Phase	Attenuation T1 at 400KHz DB			Value
Master	<div><div></div><div></div><div></div></div>			4.702	Master	<div><div></div><div></div><div></div></div>			3.162	Master	<div><div></div><div></div><div></div></div>			7.873
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 DB			Value	Phase	Attenuation T3 at 400KHz DB			Value	Phase	Attenuation T4 at 400KHz DB			Value
Master	<div><div></div><div></div><div></div></div>			6.799	Master	<div><div></div><div></div><div></div></div>			4.576	Master	<div><div></div><div></div><div></div></div>			4.760
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 DB			Value										
Master	<div><div></div><div></div><div></div></div>			3.212										
1.600 (Minimum) 3.600 (Nominal) 5.600 (Maximum)														

Master: 9-May-2002 23:19											
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	<div> <div></div> <div></div> <div></div> </div>										8.134
4.960 (Minimum)				7.200 (Nominal)				9.650 (Maximum)			

9.50-in. Compensated Dual Resistivity / Equipment Identification											
Primary Equipment: Tool Name and Serial Number Gamma Ray Type Calibration Status											
RGS9 – AA Plat – GR Done											
955											

Master: 1-Jul-2002 1:43														
9.50-in. Compensated Dual Resistivity Calibration														
Resistivity: Air														
Phase	Attenuation down DB			Value	Phase	Attenuation up DB			Value	Phase	BHC attenuation DB			Value
Master	<div><div></div><div></div><div></div></div>			3.895	Master	<div><div></div><div></div><div></div></div>			3.935	Master	<div><div></div><div></div><div></div></div>			3.915
3.290 (Minimum) 3.890 (Nominal) 4.490 (Maximum)					3.290 (Minimum) 3.890 (Nominal) 4.490 (Maximum)					3.790 (Minimum) 3.890 (Nominal) 3.990 (Maximum)				

3.290 (Minimum)	3.890 (Nominal)	4.490 (Maximum)	3.290 (Minimum)	3.890 (Nominal)	4.490 (Maximum)	3.790 (Minimum)	3.890 (Nominal)	3.990 (Maximum)
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Master: 1-Jul-2002 1:43											
9.50-in. Compensated Dual Resistivity Calibration											
Resistivity: Air											
Phase	Phase shift down	DEG	Value	Phase	Phase shift up	DEG	Value	Phase	BHC phase shift	DEG	Value
Master			0.5410	Master			-0.4280	Master			0.05650
-2.400 (Minimum)	0.1000 (Nominal)	2.600 (Maximum)		-2.400 (Minimum)	0.1000 (Nominal)	2.600 (Maximum)		-0.9000 (Minimum)	0.1000 (Nominal)	1.100 (Maximum)	

Master: 1-Jul-2002 1:46											
9.50-in. Compensated Dual Resistivity Calibration											
Gamma Ray: Blanket											
Phase	Gain							Value			
Master								0.9200			
	0.8000 (Minimum)	1.000 (Nominal)						1.200 (Maximum)			

ANADRILL													
SCHLUMBERGER													
Survey report				5-Aug-2002 10:00:32				Page		1 of 3			
Client.....: ESSO Australia Ltd.													
Field.....: Exploration													
Well.....: Beardie-1				Spud date.....: 26-Jul-02									
API number.....:				Last survey date.....: 04-Aug-02									
Engineer.....: W.Bertheux, C.Borbas, K.Handley				Total accepted surveys...: 45									
COUNTY.....: Ocean Bountly				MD of first survey.....: 0.00 m									
STATE.....: Victoria				MD of last survey.....: 1905.00 m									
----- Survey calculation methods-----													
Method for positions.....: Minimum curvature				----- Geomagnetic data -----									
Method for DLS.....: Mason & Taylor				Magnetic model.....: BGGM version 2001									
----- Depth reference -----				Magnetic date.....: 30-Jul-2002									
Permanent datum.....: MEAN SEA LEVEL				Magnetic field strength..: 1202.85 HCNT									
Depth reference.....: Drillers Depth				Magnetic dec (+E/W-).....: 12.95 degrees									
GL above permanent.....: -51.20 m				Magnetic dip.....: -68.85 degrees									
KB above permanent.....: 0.00 m				----- MWD survey Reference Criteria -----									
DF above permanent.....: 25.00 m				Reference G.....: 1000.03 mGal									
----- Vertical section origin-----				Reference H.....: 1202.85 HCNT									
Latitude (+N/S-).....: 0.00 m				Reference Dip.....: -68.85 degrees									
Departure (+E/W-).....: 0.00 m				Tolerance of G.....: (+/-) 2.50 mGal									
----- Platform reference point-----				Tolerance of H.....: (+/-) 6.00 HCNT									
Latitude (+N/S-).....: 0.00 m				Tolerance of Dip.....: (+/-) 0.45 degrees									
Departure (+E/W-).....: 0.00 m				----- Corrections -----									
Azimuth from rotary table to target: 0.00 degrees				Magnetic dec (+E/W-).....: 12.95 degrees									
				Grid convergence (+E/W-)..: -0.50 degrees									
				Total az corr (+E/W-).....: 13.45 degrees									
				(Total az corr = magnetic dec - grid conv)									
				Sag applied (Y/N).....: No degree: 0.00									
[(c)2002 Anadrill IDEAL ID7_OC_02]													
ANADRILL SCHLUMBERGER Survey Report				5-Aug-2002 10:00:32				Page		2 of 3			
Seq	Measured	Incl	Azimuth	Course	TVD	Vertical	Displ	Displ	Total	At	DLS	Srvy	Tool
#	depth	angle	angle	length	depth	section	+N/S-	+E/W-	displ	Azim	(deg/	tool	qual
-	(m)	(deg)	(deg)	(m)	(m)	(m)	(m)	(m)	(m)	(deg)	10m)	type	type
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	TIP	-
2	75.80	0.00	0.00	75.80	75.80	0.00	0.00	0.00	0.00	0.00	0.00	GYR	-
3	103.70	0.15	148.92	27.90	103.70	-0.03	-0.03	0.02	0.04	148.92	0.05	GYR	-
4	130.50	0.12	223.02	26.80	130.50	-0.08	-0.08	0.02	0.08	167.72	0.06	GYR	-
5	157.50	0.05	236.77	27.00	157.50	-0.11	-0.11	-0.01	0.11	185.94	0.03	GYR	-
6	184.20	0.05	297.06	26.70	184.20	-0.11	-0.11	-0.03	0.11	195.95	0.02	GYR	-
7	212.20	0.07	153.34	28.00	212.20	-0.12	-0.12	-0.03	0.12	196.14	0.04	GYR	-
8	240.40	0.04	159.19	28.20	240.40	-0.14	-0.14	-0.02	0.15	189.22	0.01	GYR	-
9	268.60	0.09	144.59	28.20	268.60	-0.17	-0.17	-0.01	0.17	182.37	0.02	GYR	-
10	296.30	0.07	298.19	27.70	296.30	-0.18	-0.18	-0.01	0.18	182.97	0.06	GYR	-
11	324.10	0.10	212.83	27.80	324.10	-0.19	-0.19	-0.04	0.20	190.96	0.04	GYR	-
12	351.70	0.24	245.32	27.60	351.70	-0.24	-0.24	-0.10	0.26	203.41	0.06	GYR	-
13	380.50	0.37	241.18	28.80	380.50	-0.31	-0.31	-0.24	0.39	217.84	0.05	GYR	-
14	409.60	0.36	254.31	29.10	409.60	-0.38	-0.38	-0.41	0.56	227.30	0.03	GYR	-
15	438.60	0.38	243.71	29.00	438.60	-0.45	-0.45	-0.58	0.73	232.65	0.02	GYR	-
16	467.20	0.30	227.88	28.60	467.20	-0.54	-0.54	-0.72	0.90	233.41	0.04	GYR	-
17	496.30	0.40	206.80	29.10	496.30	-0.68	-0.68	-0.83	1.07	230.58	0.06	GYR	-

16	467.20	0.30	227.88	28.60	467.20	-0.54	-0.54	-0.72	0.90	233.41	0.04	GYR	-
17	496.30	0.40	206.80	29.10	496.30	-0.68	-0.68	-0.83	1.07	230.58	0.06	GYR	-
18	525.20	0.41	205.20	28.90	525.20	-0.86	-0.86	-0.92	1.26	226.71	0.01	GYR	-
19	553.90	0.44	205.99	28.70	553.90	-1.05	-1.05	-1.01	1.46	223.70	0.01	GYR	-
20	583.20	0.45	201.04	29.30	583.19	-1.26	-1.26	-1.10	1.67	221.01	0.01	GYR	-
21	612.10	0.42	202.70	28.90	612.09	-1.47	-1.47	-1.18	1.88	218.82	0.01	GYR	-
22	641.10	0.48	206.49	29.00	641.09	-1.67	-1.67	-1.28	2.10	217.31	0.02	GYR	-
23	669.80	0.46	203.26	28.70	669.79	-1.89	-1.89	-1.37	2.33	216.07	0.01	GYR	-
24	698.80	0.48	202.05	29.00	698.79	-2.11	-2.11	-1.47	2.57	214.83	0.01	GYR	-
25	727.90	0.50	195.89	29.10	727.89	-2.34	-2.34	-1.55	2.81	213.44	0.02	GYR	-
26	757.00	0.52	180.34	29.10	756.99	-2.60	-2.60	-1.58	3.04	211.36	0.05	GYR	-
27	786.20	0.52	176.91	29.20	786.19	-2.86	-2.86	-1.58	3.27	208.85	0.01	GYR	-
28	814.70	0.58	177.65	28.50	814.69	-3.13	-3.13	-1.56	3.50	206.51	0.02	GYR	-
29	843.60	0.55	168.87	28.90	843.58	-3.42	-3.42	-1.53	3.74	204.13	0.03	GYR	-
30	852.70	0.56	173.86	9.10	852.68	-3.50	-3.50	-1.52	3.82	203.41	0.05	GYR	-

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Seq # -	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/ 10m)	Srvy tool type	Tool qual type
31	907.95	0.55	184.35	55.25	907.93	-4.04	-4.04	-1.51	4.31	200.49	0.02	MWD	-
32	1025.73	0.60	210.10	117.78	1025.71	-5.13	-5.13	-1.86	5.46	199.92	0.02	MWD	-
33	1083.00	0.46	228.69	57.27	1082.97	-5.54	-5.54	-2.18	5.96	201.49	0.04	MWD	-
34	1169.99	0.47	231.26	86.99	1169.96	-6.00	-6.00	-2.72	6.59	204.42	0.00	MWD	-
35	1257.42	0.51	245.44	87.43	1257.39	-6.38	-6.38	-3.36	7.21	207.74	0.01	MWD	-
36	1344.31	0.67	230.55	86.89	1344.27	-6.87	-6.87	-4.10	8.00	210.85	0.03	MWD	-
37	1431.33	0.79	216.92	87.02	1431.29	-7.67	-7.67	-4.85	9.08	212.33	0.02	MWD	-
38	1517.17	1.19	222.49	85.84	1517.11	-8.80	-8.80	-5.81	10.55	213.44	0.05	MWD	-
39	1551.21	1.09	226.63	34.04	1551.15	-9.28	-9.28	-6.29	11.21	214.10	0.04	MWD	-
40	1639.11	0.83	214.91	87.90	1639.03	-10.38	-10.38	-7.26	12.67	214.96	0.04	MWD	-
41	1725.47	0.90	209.82	86.36	1725.38	-11.48	-11.48	-7.95	13.97	214.71	0.01	MWD	-
42	1754.65	0.83	200.48	29.18	1754.56	-11.88	-11.88	-8.14	14.40	214.43	0.05	MWD	-
43	1834.52	0.89	216.64	79.87	1834.42	-12.92	-12.92	-8.71	15.58	214.00	0.03	MWD	-
44	1869.06	0.98	215.87	34.54	1868.96	-13.37	-13.37	-9.05	16.15	214.08	0.03	MWD	-
45	1905.00	0.98	215.87	35.94	1904.89	-13.87	-13.87	-9.41	16.76	214.15	0.00	MWD	Projected to TD

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Company: **ESSO Australia Ltd.**

Schlumberger

Well: **Beardie-1**

Field: **Exploration**

Rig: **Ocean Bounty**

State: **Victoria**

**CDR – Resistivity
1:500 Measured Depth
Recorded Mode**