

<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</p> <p>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.</p> <p>Interval drilled from 849m – 1580m. Interval logged from 790m – 1558m.</p>	<p>REMARKS: RUN NUMBER 2</p> <p>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.</p> <p>Interval drilled from 1580m – 1905m. Interval logged from 1555m – 1884m.</p> <p>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

Environmental data

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.Borbias	K.Handley							

IDEAL Version: ID7_0C_02
IDF

CDR IDEAL Version: ID7_0C_02 MWD_10 IDEAL Version: ID7_0C_02

Format: CDR/ARC RM LOG 1:200 Vertical Scale: 1:200 Graphics File Created: 07-Aug-2002 09:52

Parameters

DLIS Name	Description	Value
BS_RM	Bit Size (RM)	12.250 in
DO	Depth Offset	0.0 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

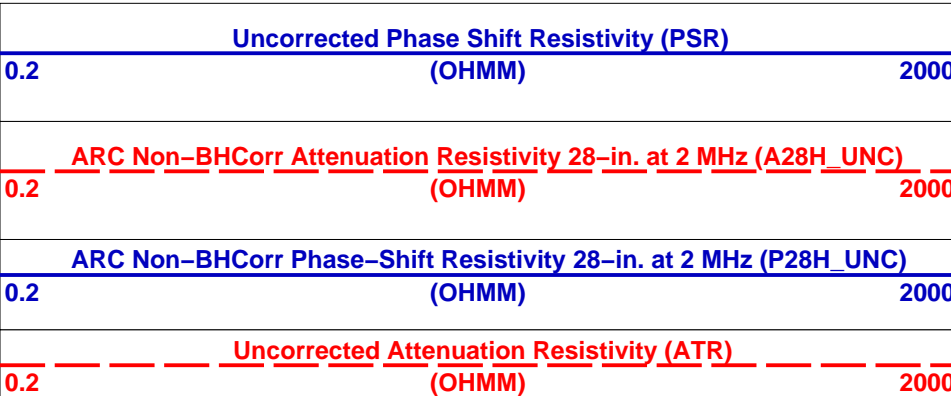
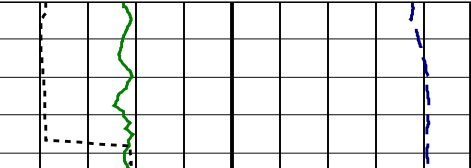
CDR Resistivity Time After Bit (TAB_
CDR_RES)
0 (HR) 10

Rate of Penetration, Averaged over Last
5ft (ROP5_RM)
200 (M/HR) 0

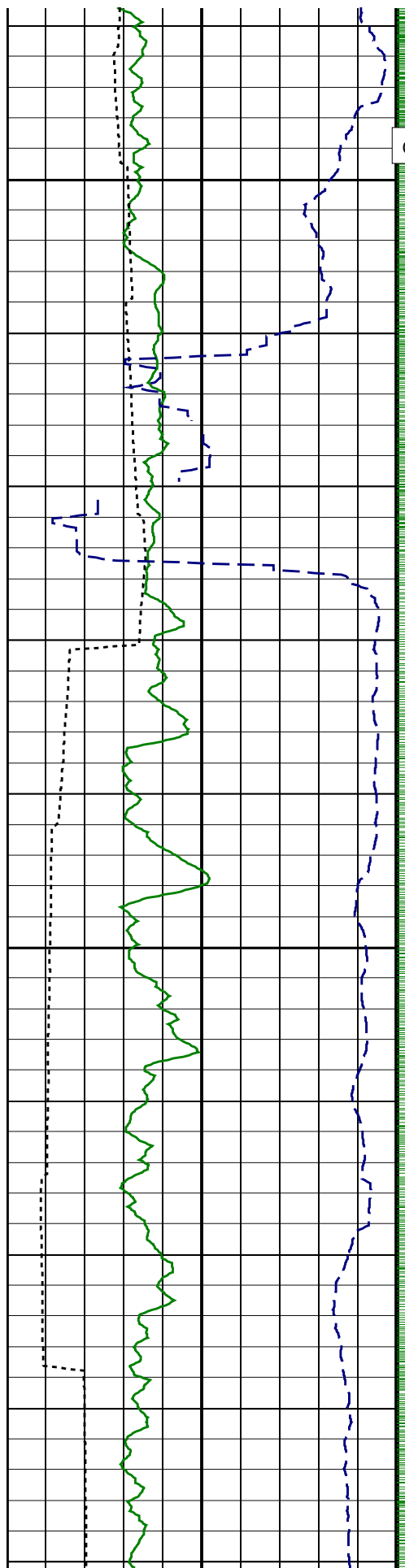
ARC Resistivity Time After Bit (TAB_
ARC_RES)
0 (HR) 10

CDR Gamma Ray (GR_CDR)
0 (GAPI) 200

ARC Gamma Ray (GR_ARC)
0 (GAPI) 200



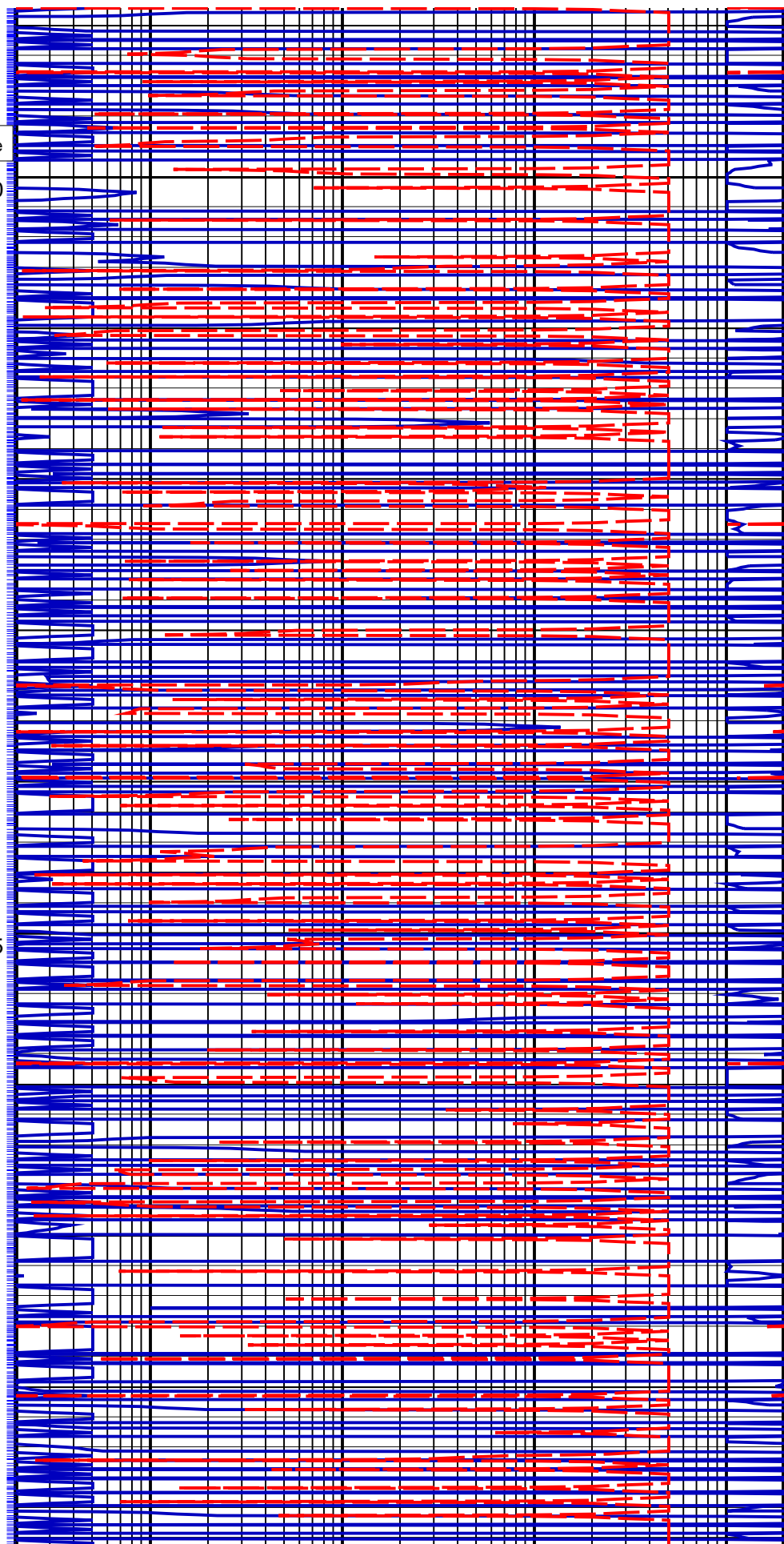
ARC resistivity transmitter failure due to high shock when drilling shoetrack

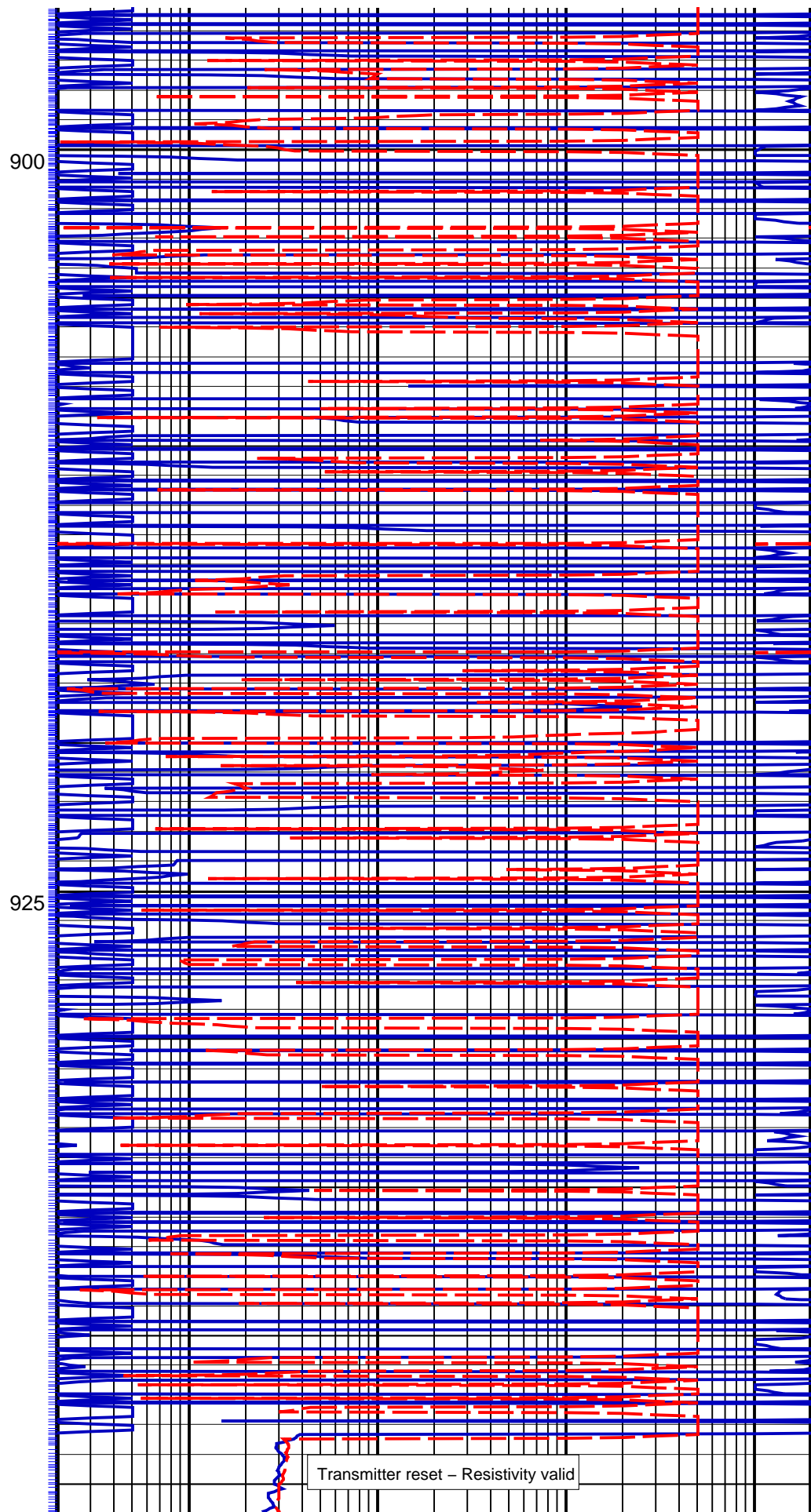
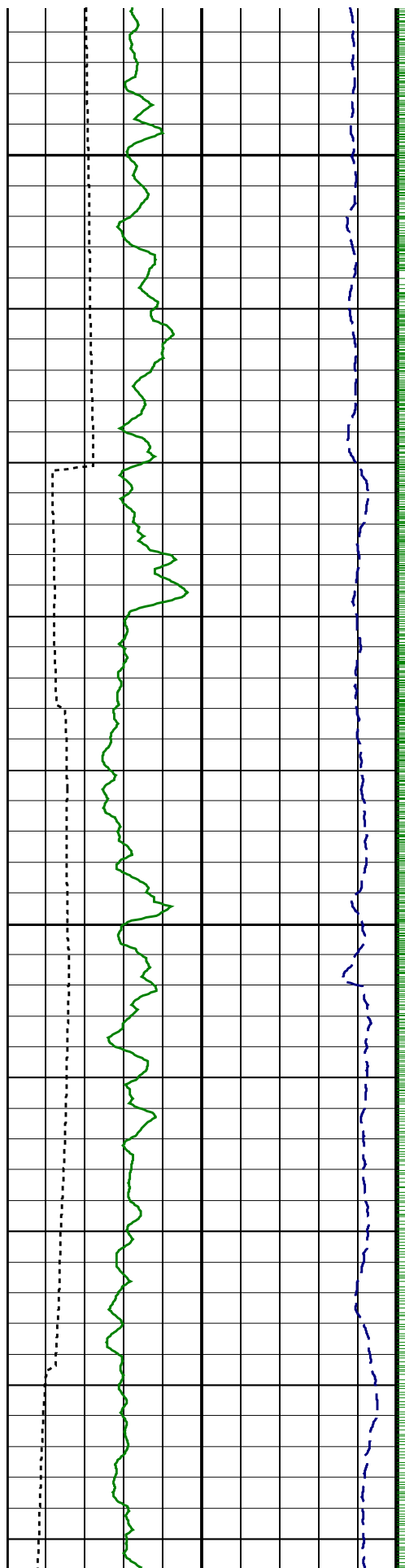


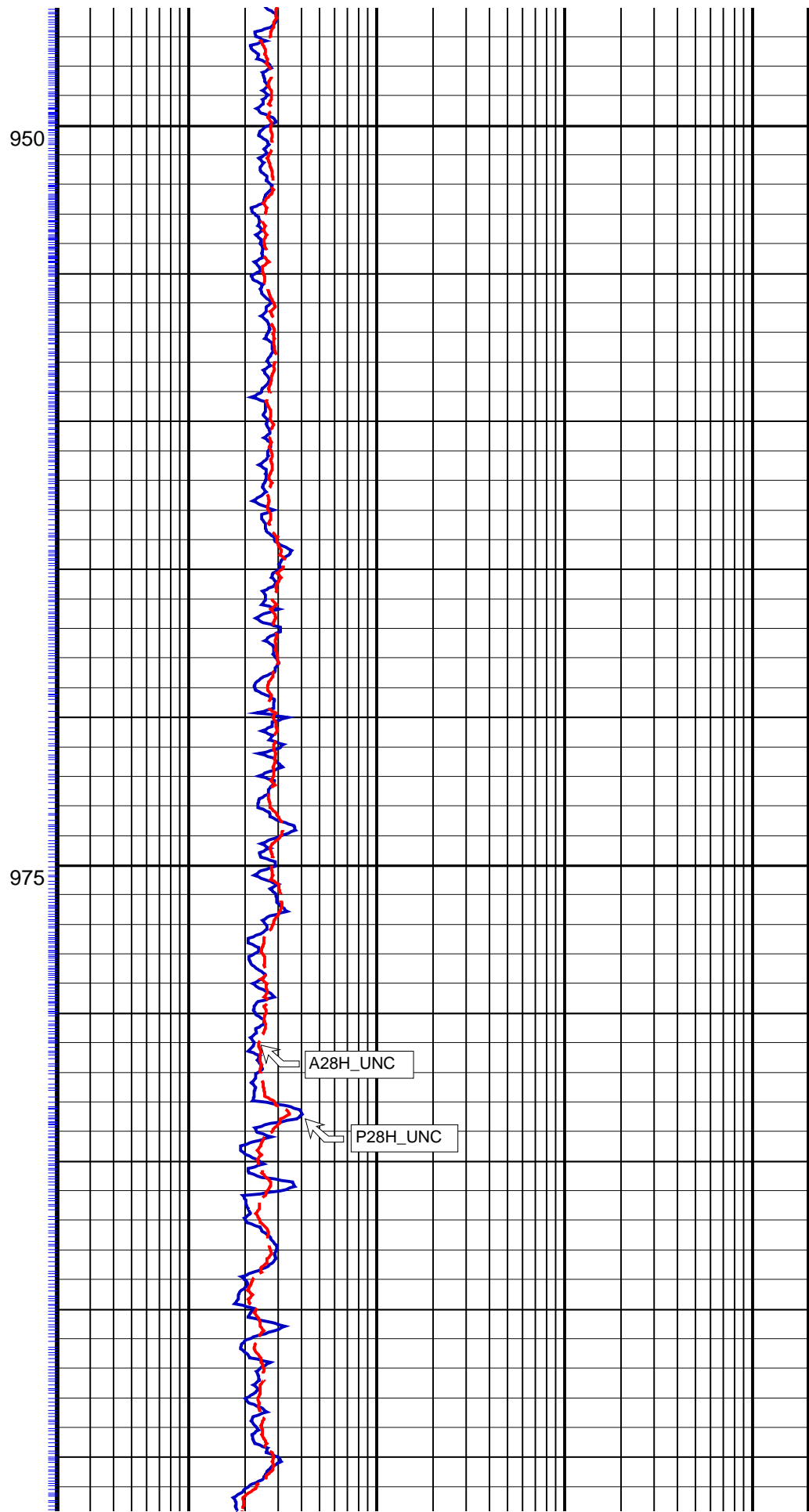
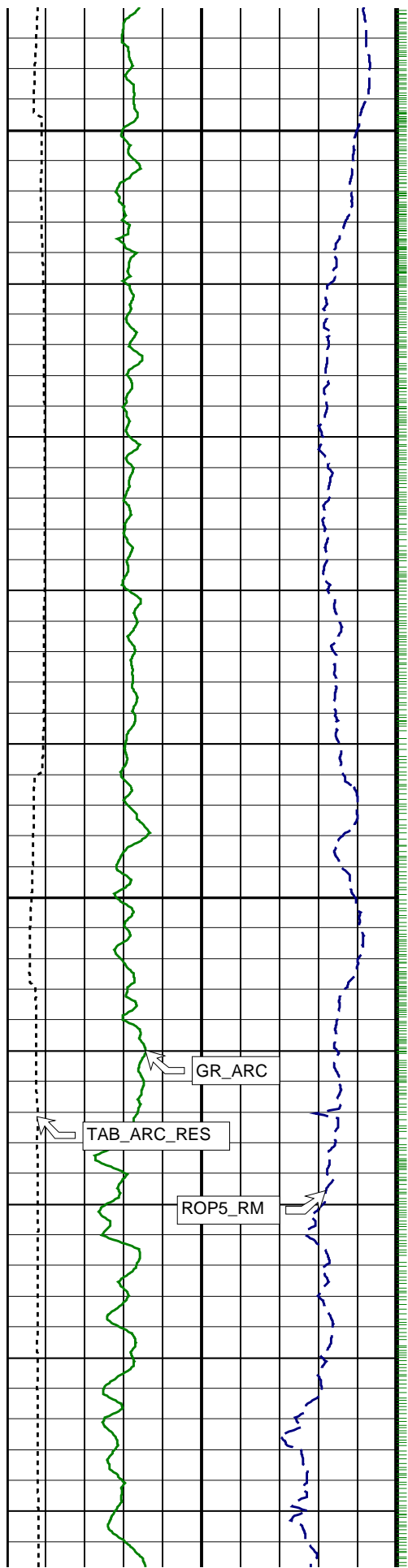
Casing Shoe

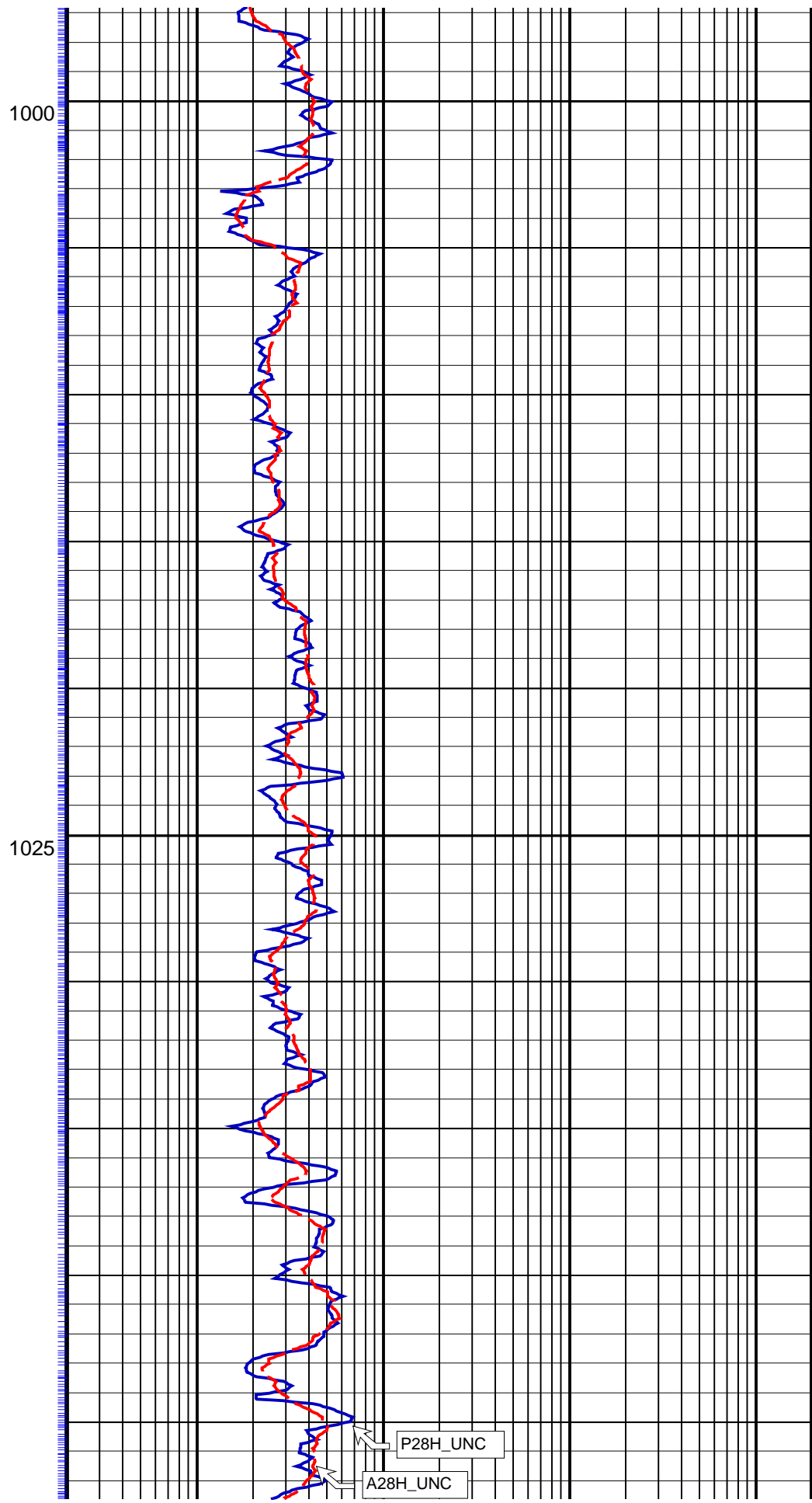
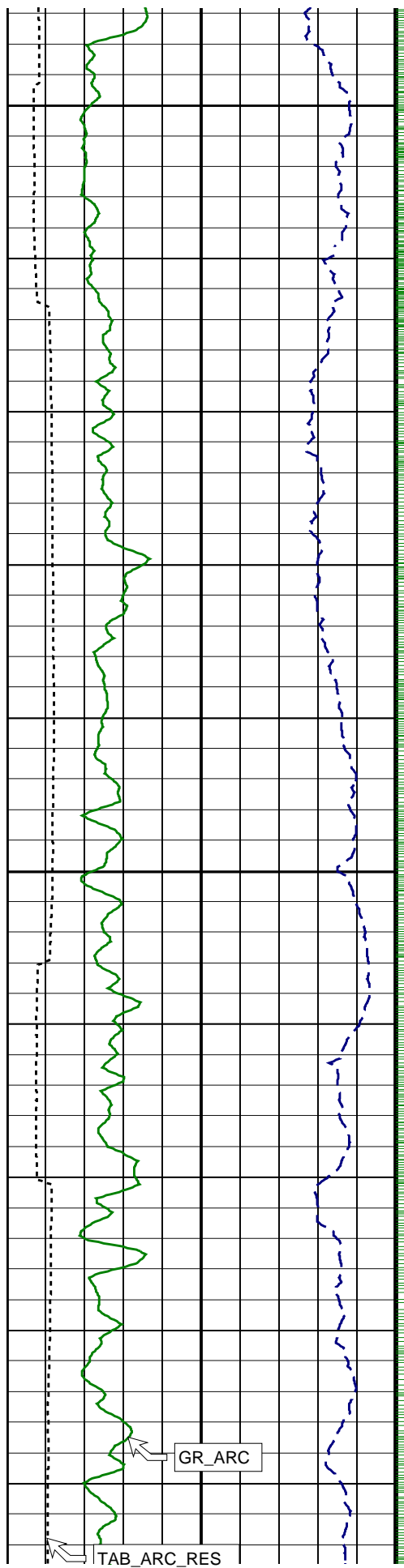
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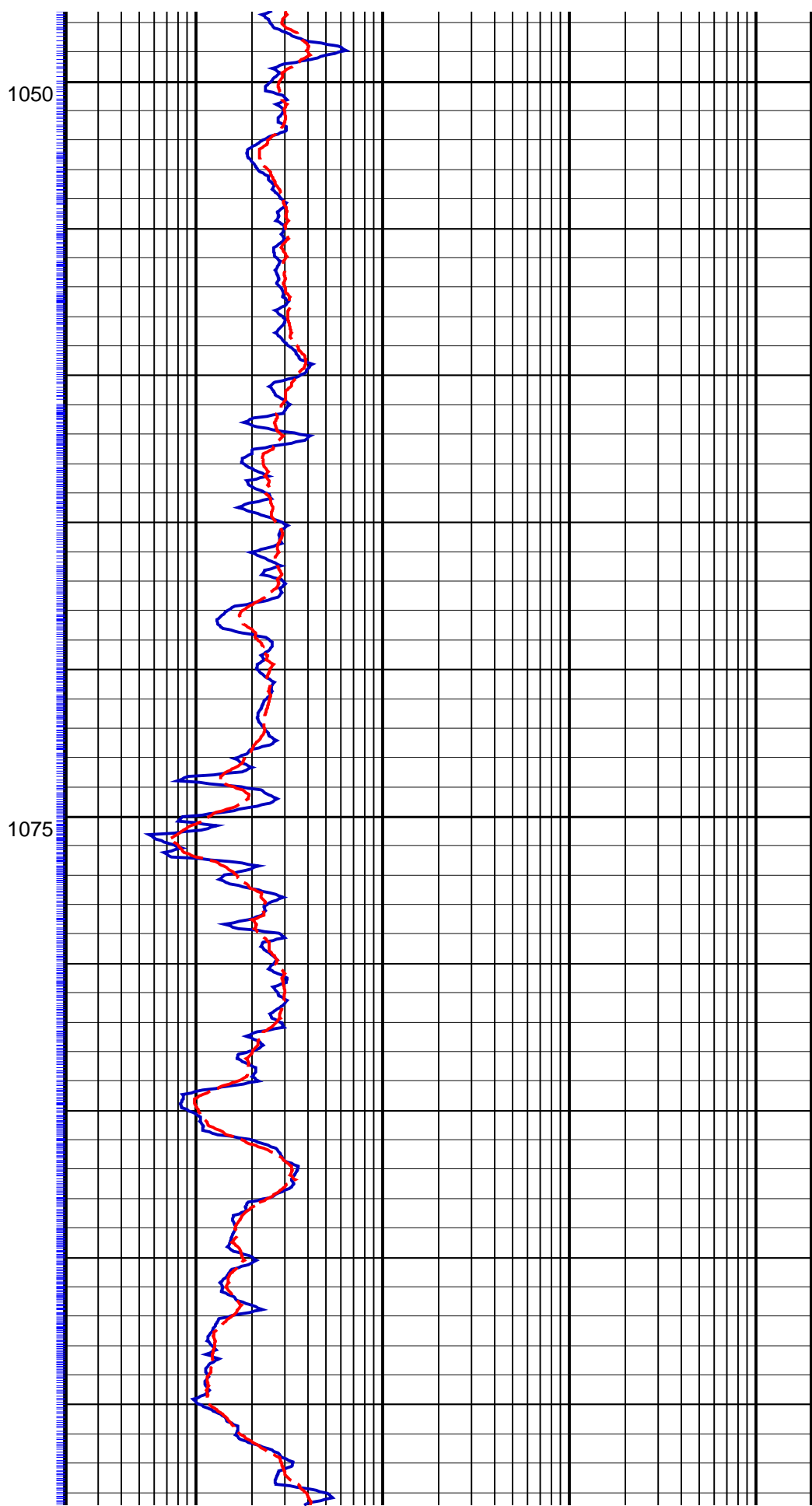
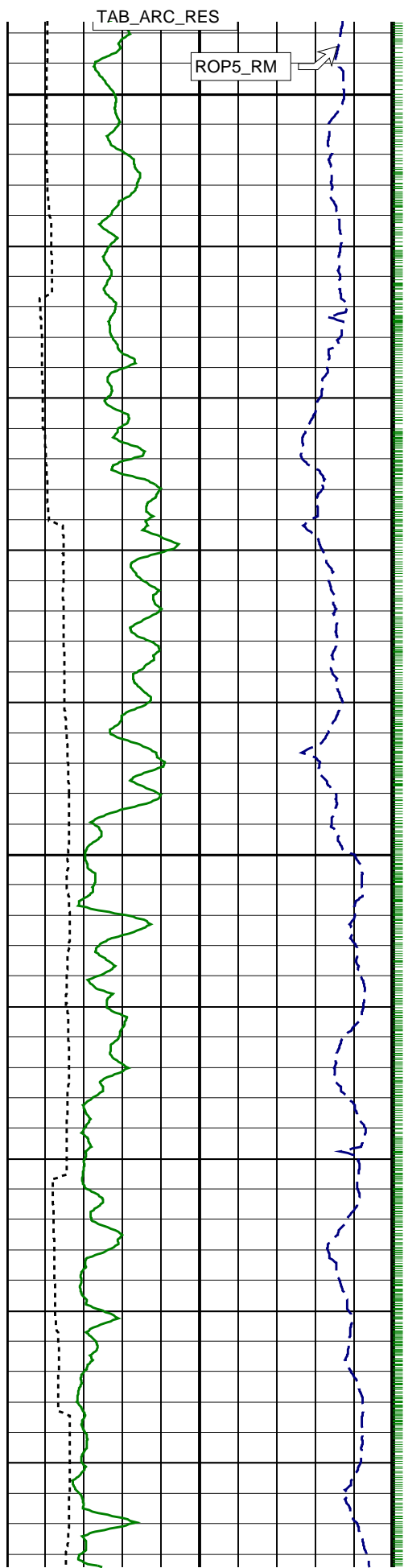
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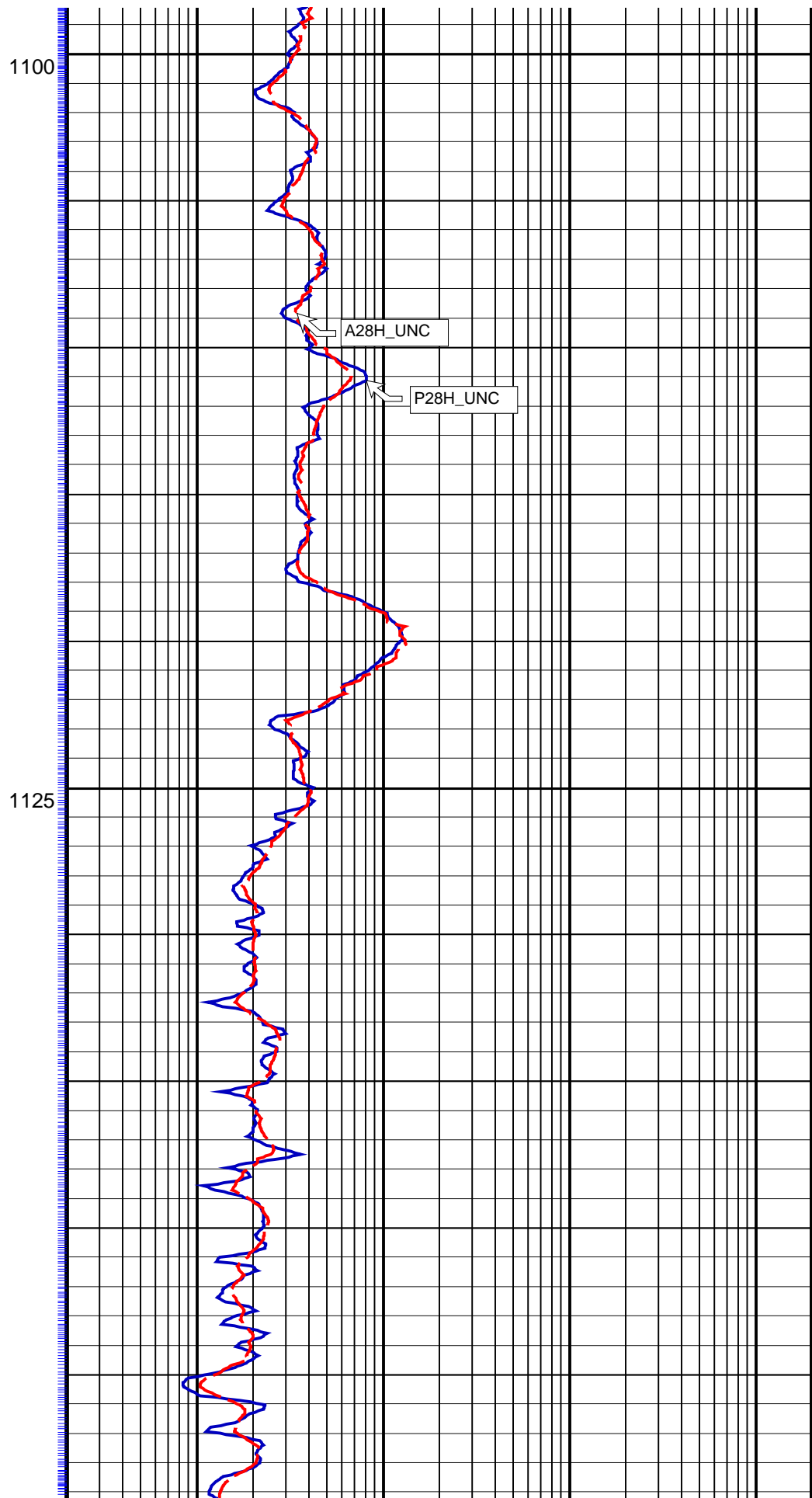
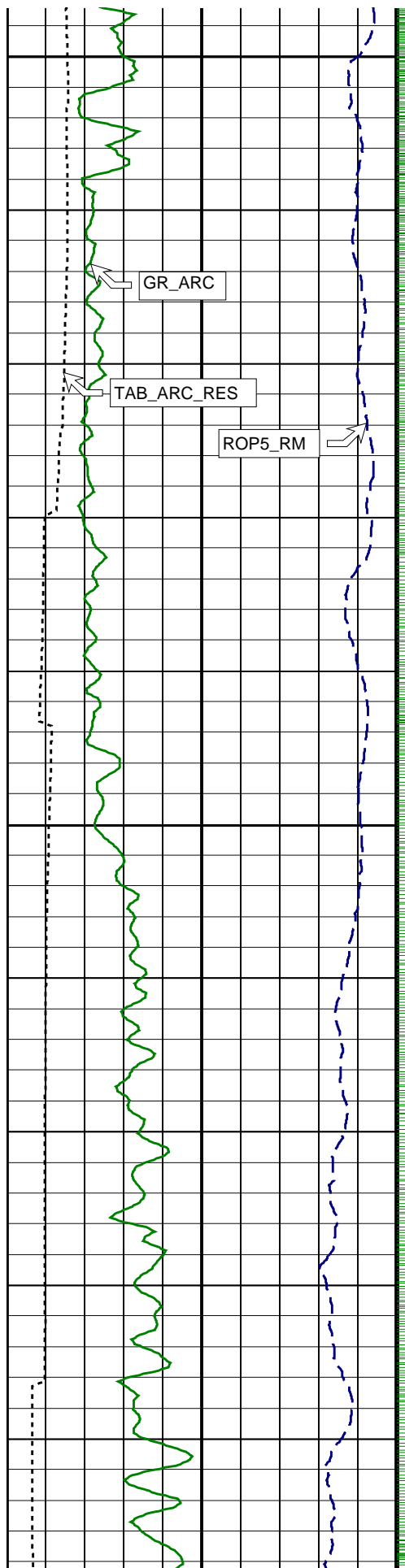


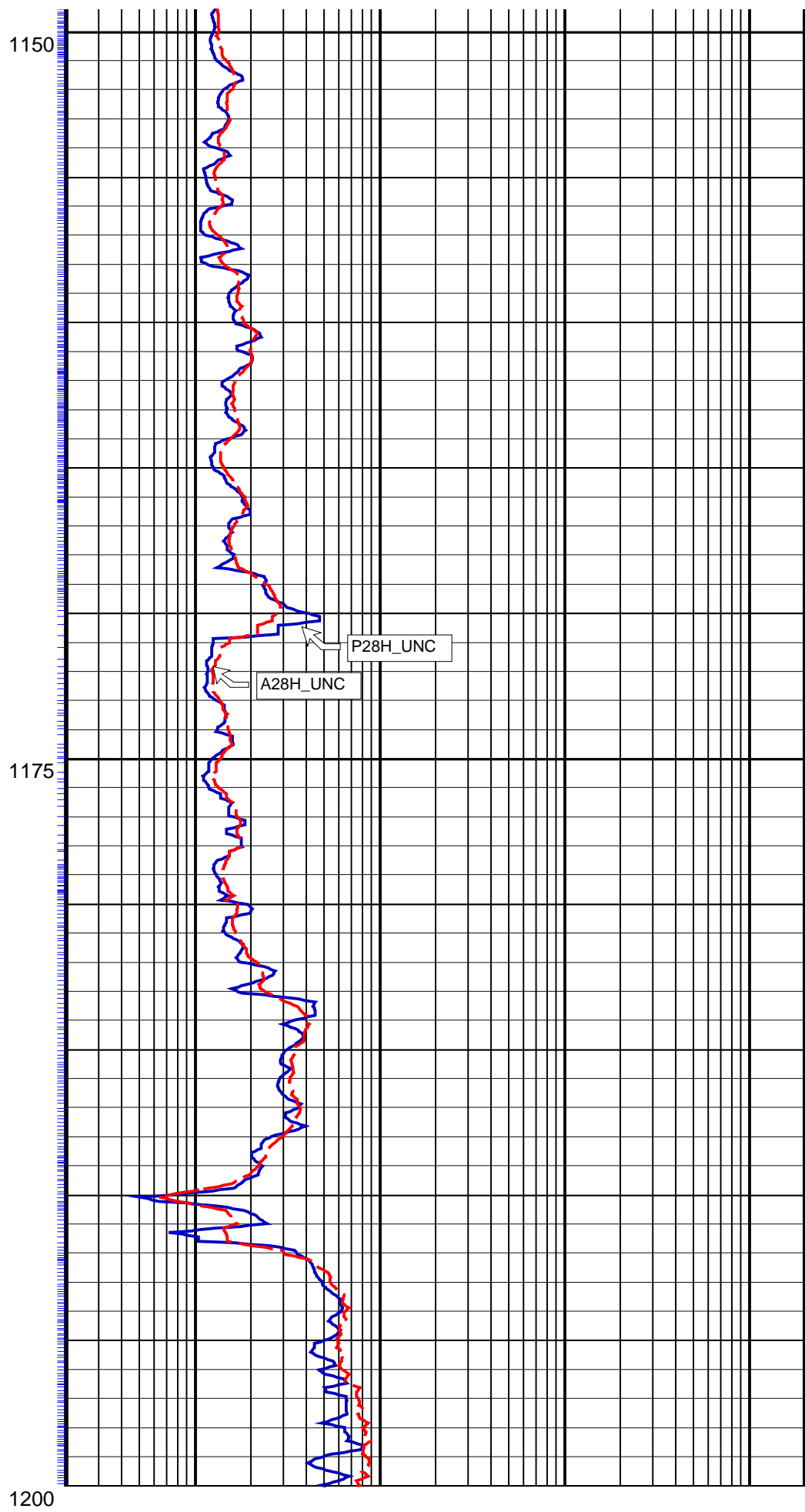
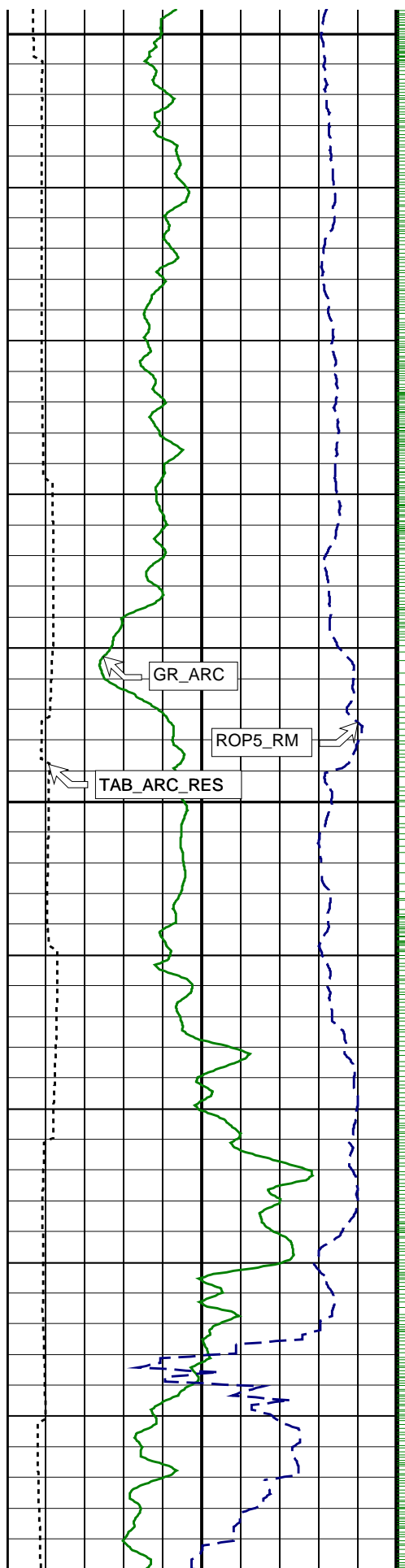


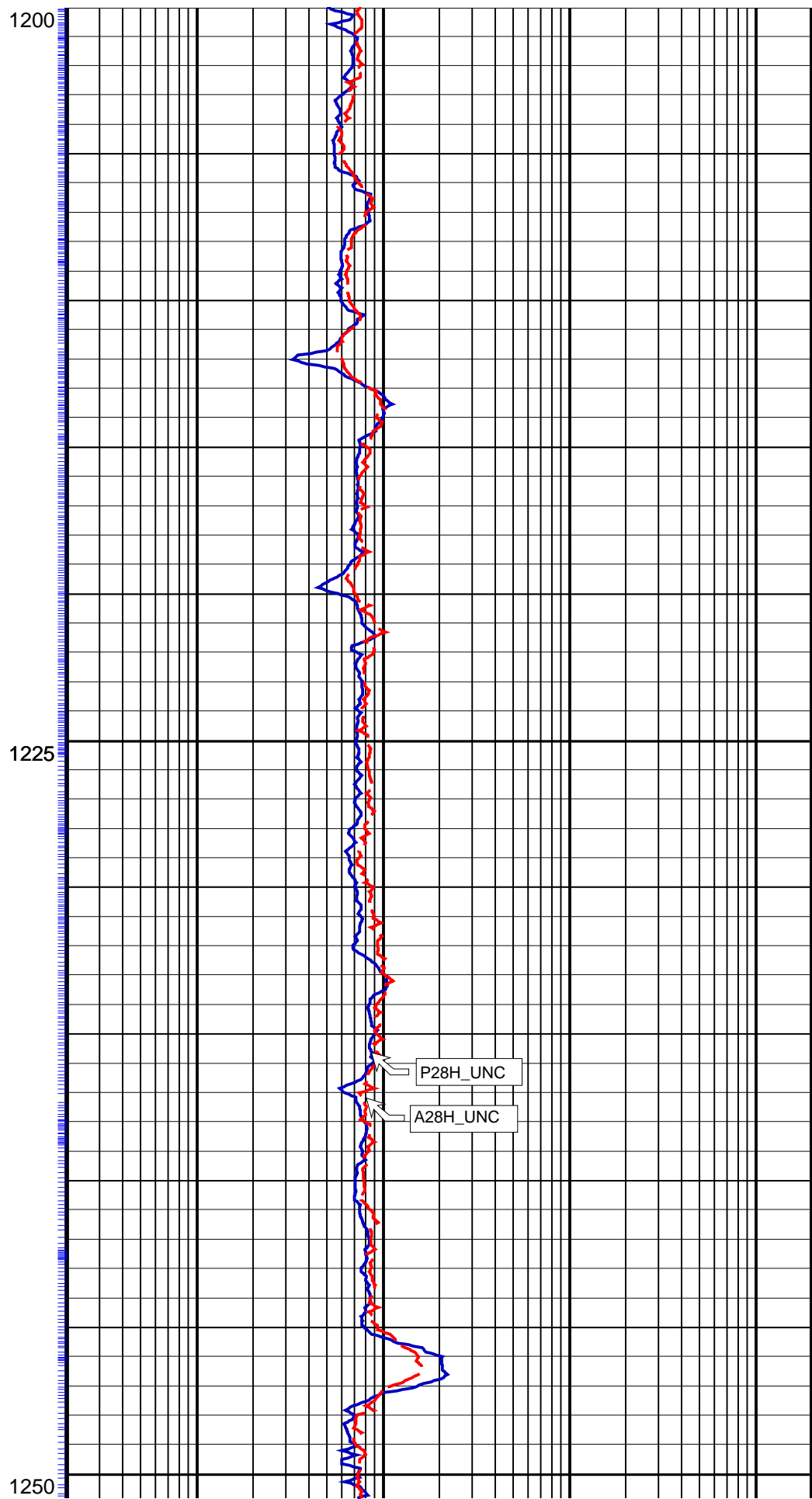
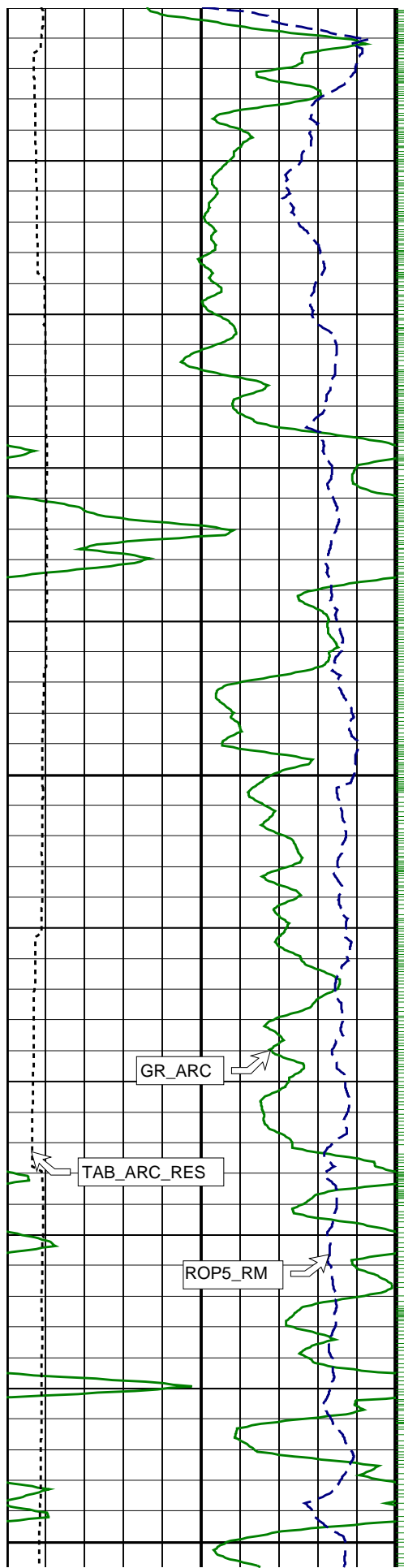


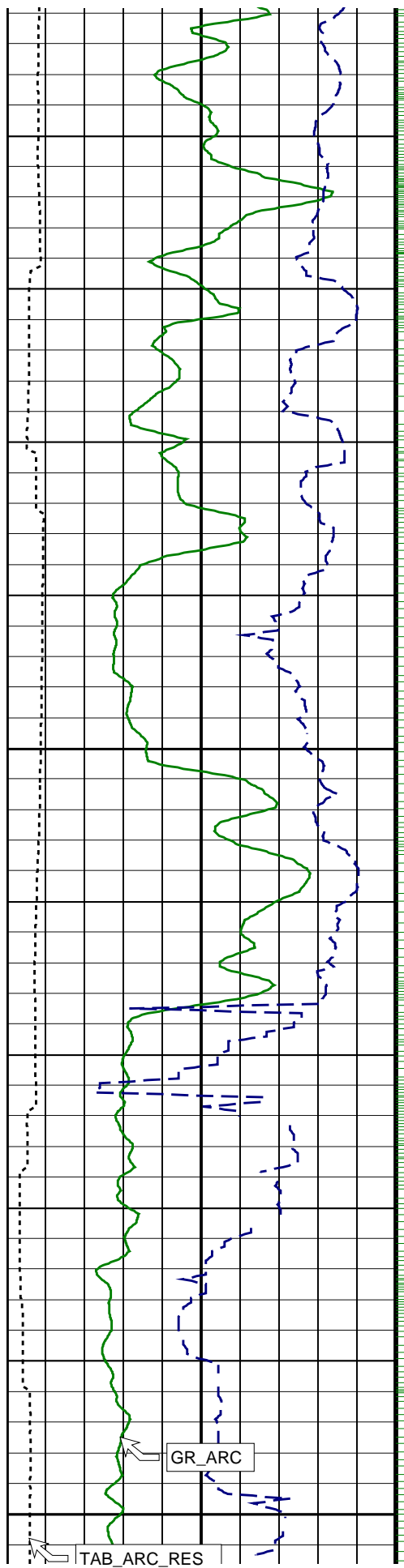








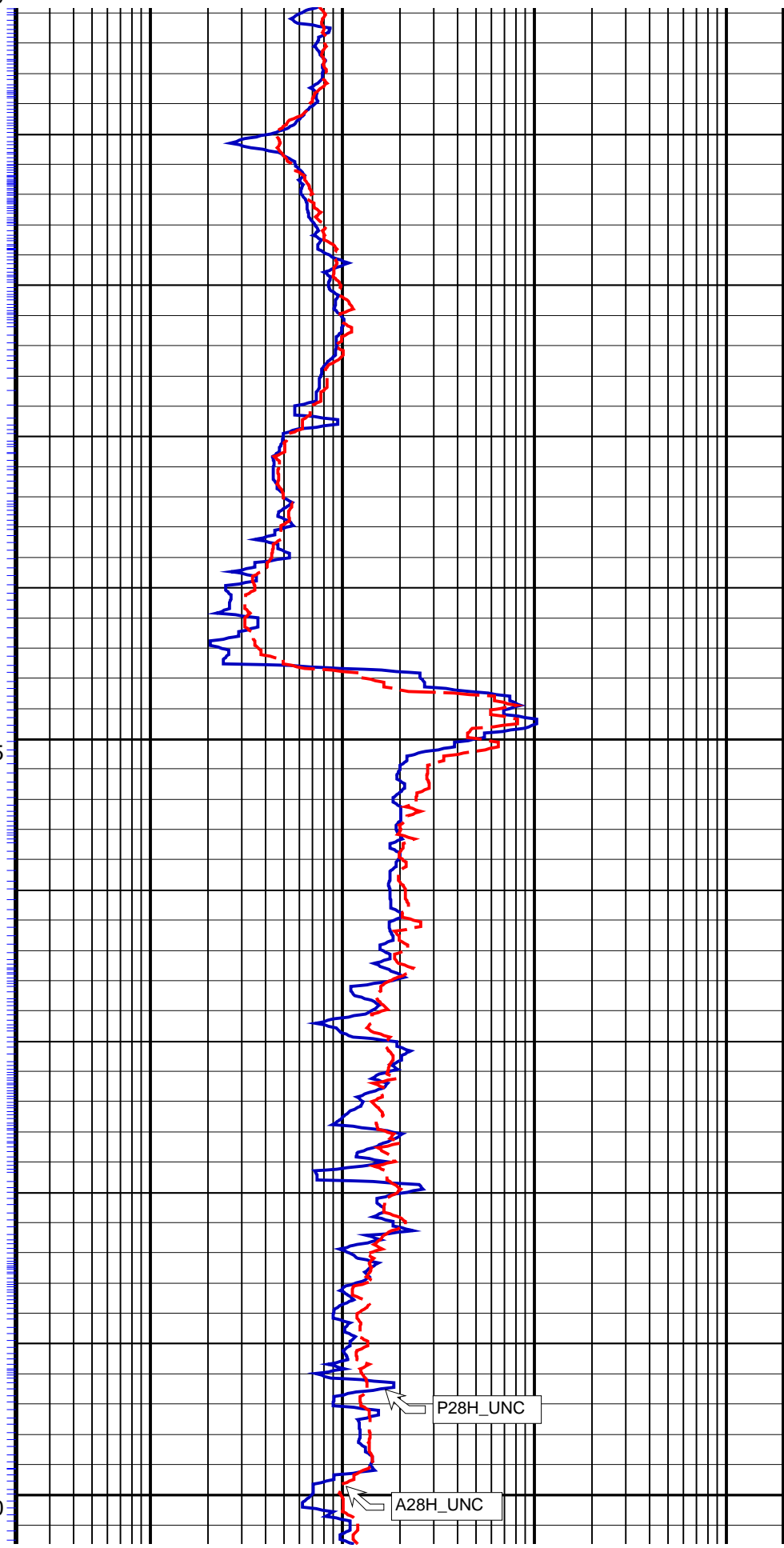


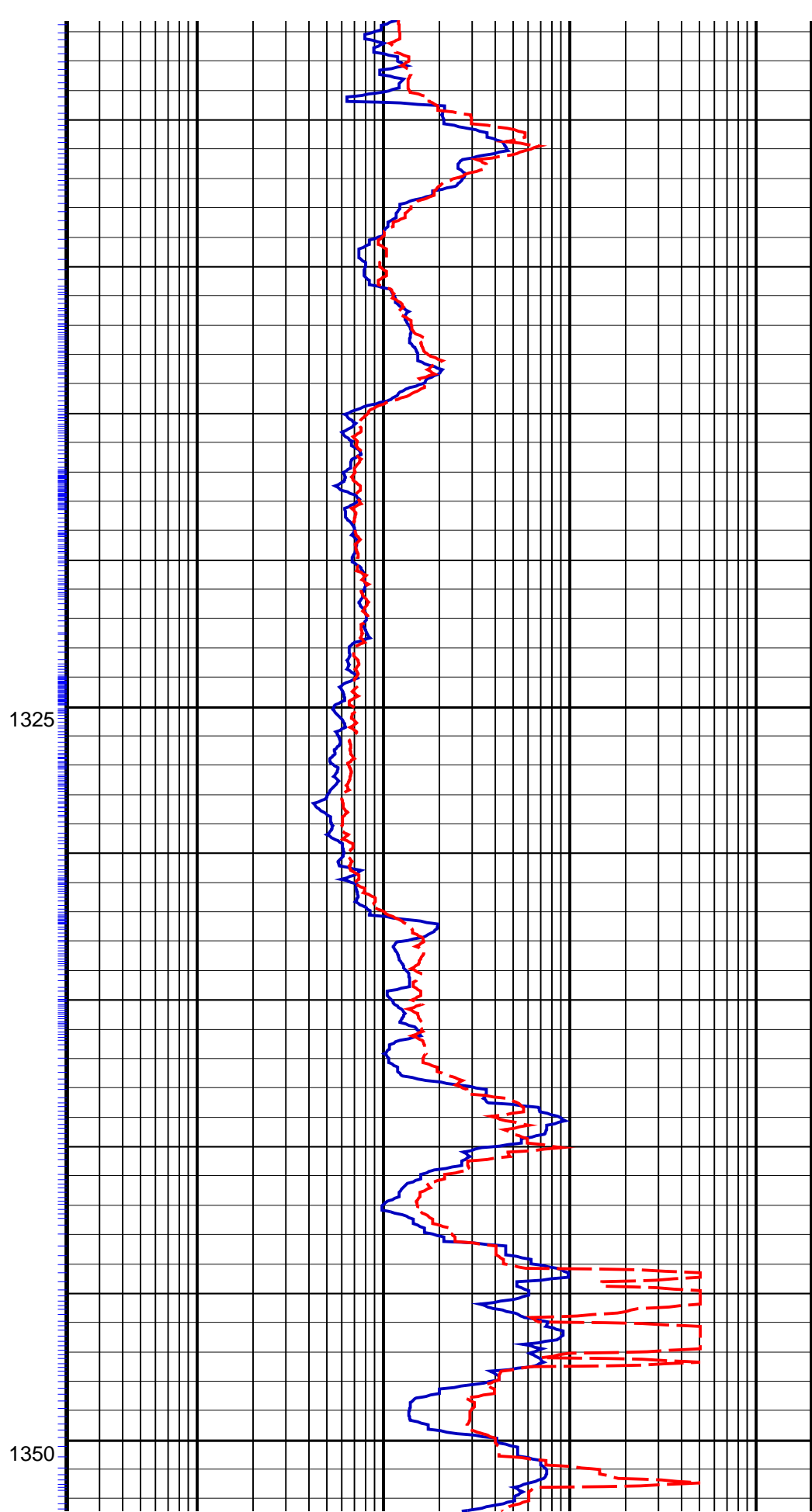
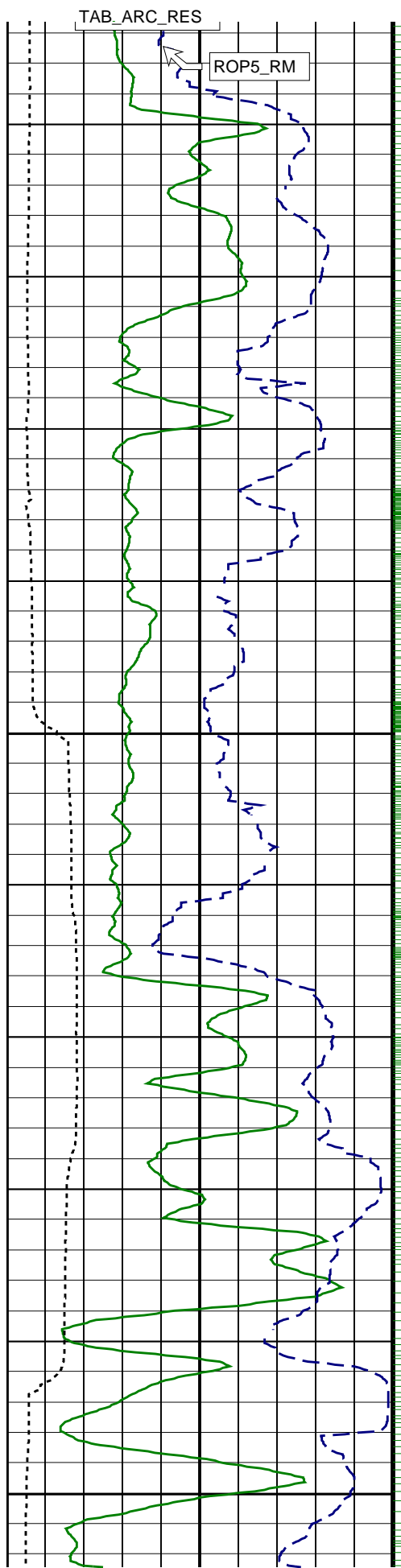


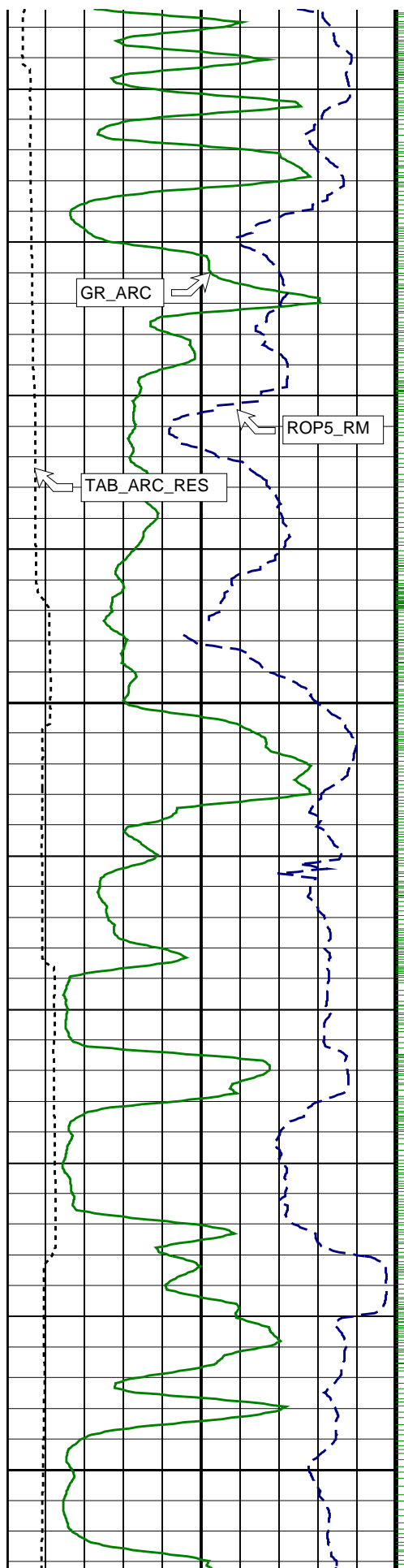
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1275

1300

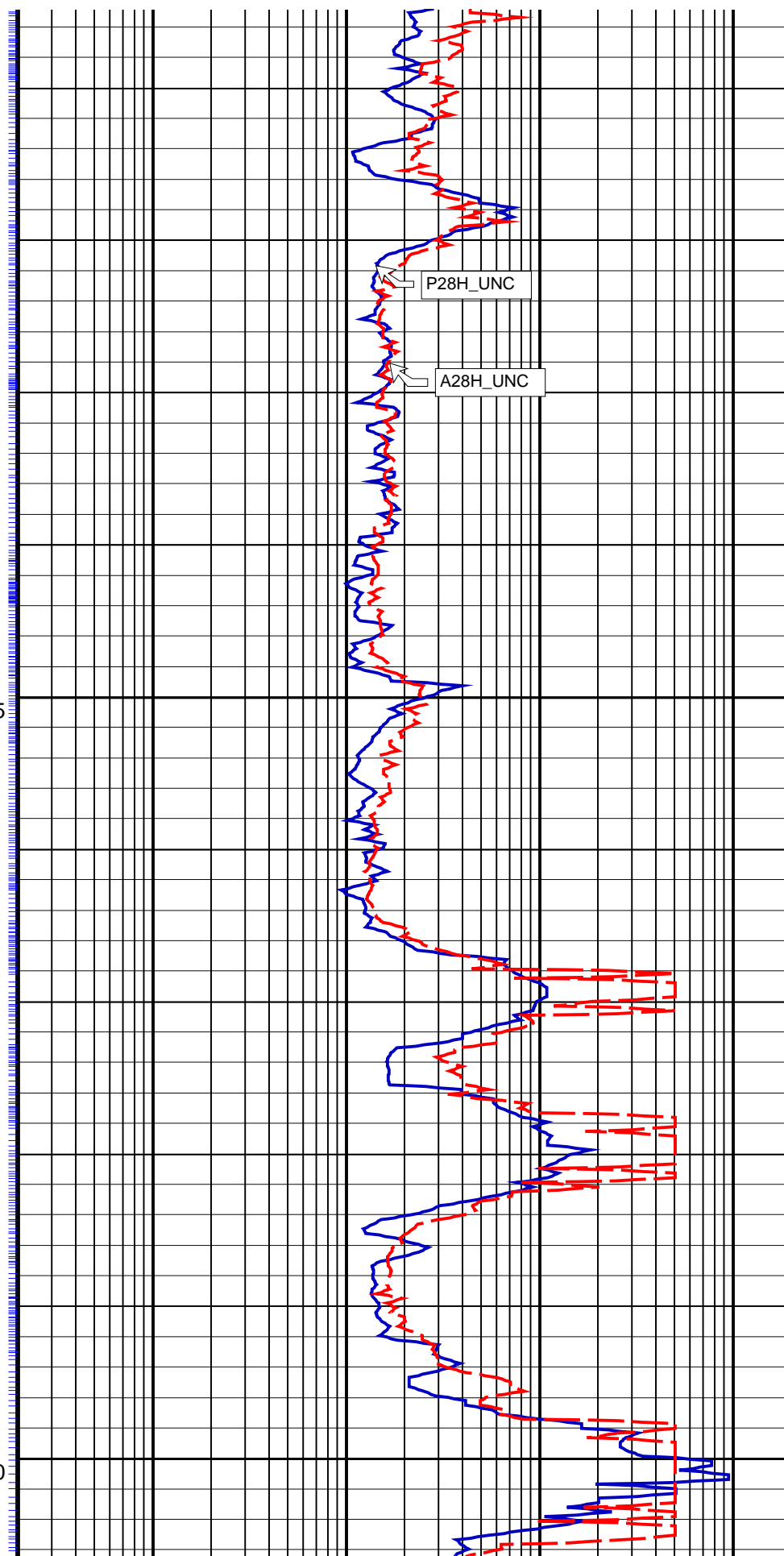


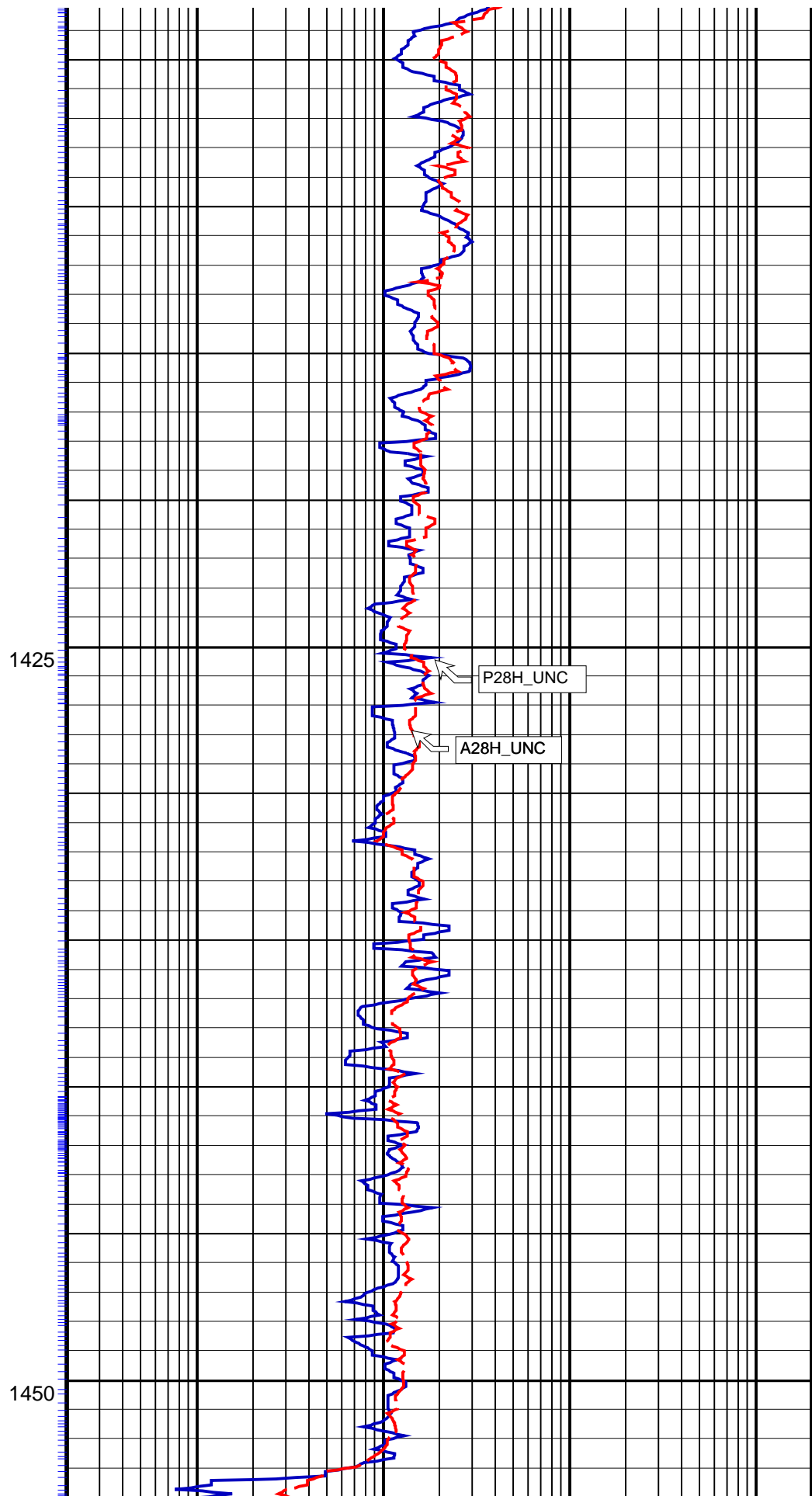
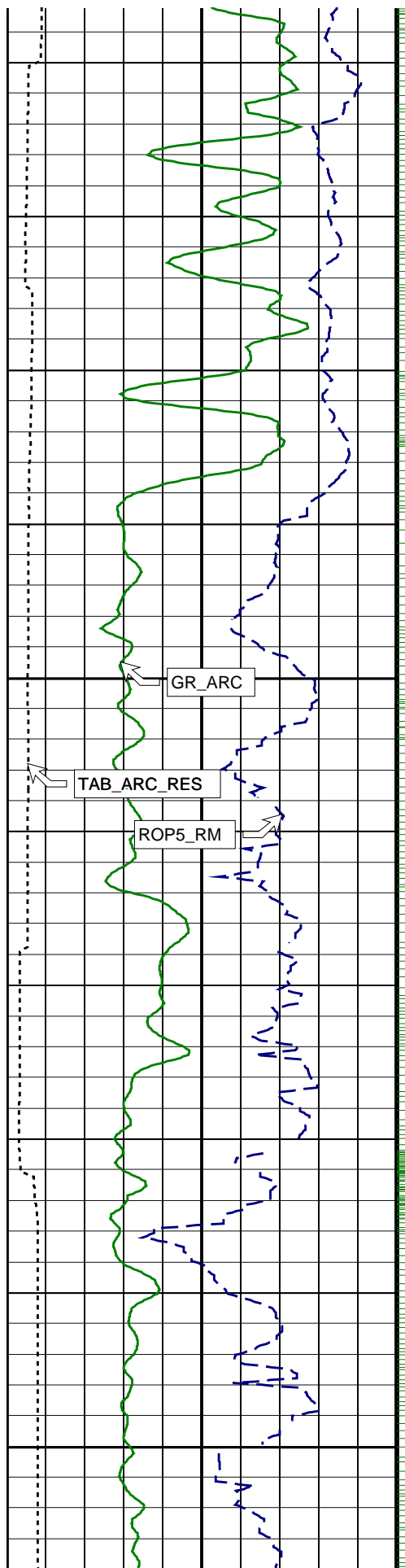


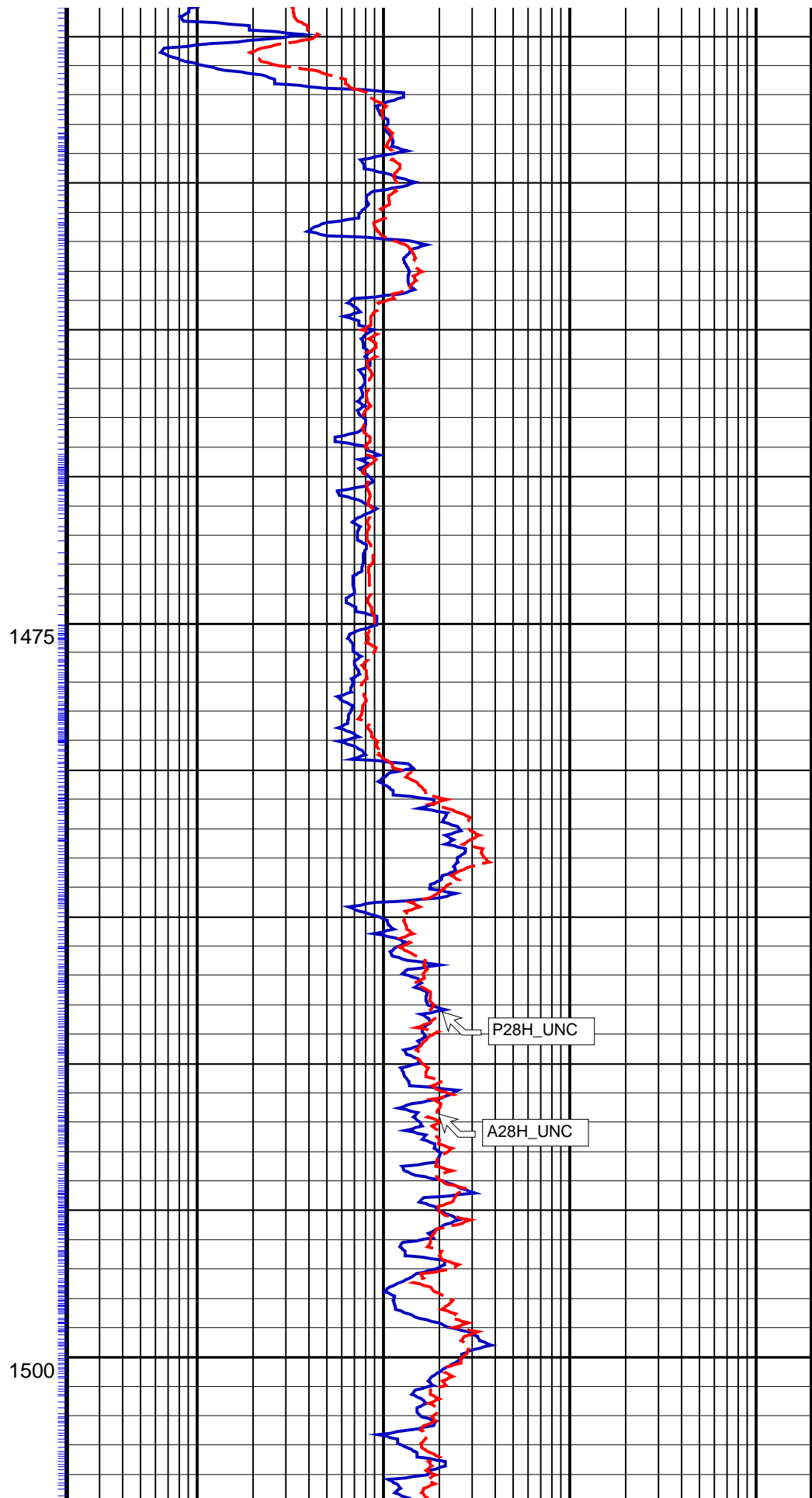
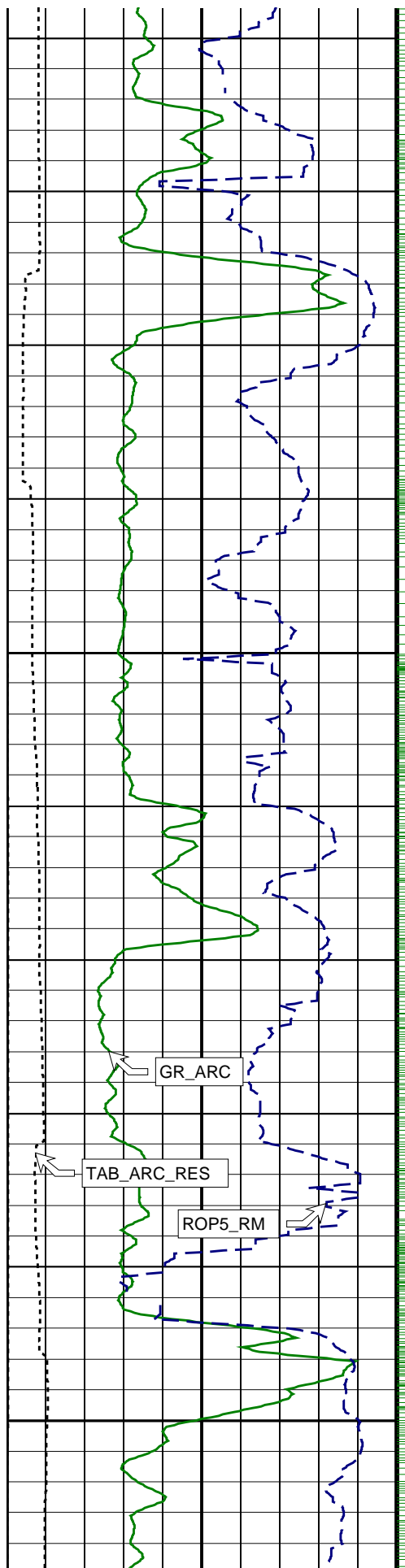


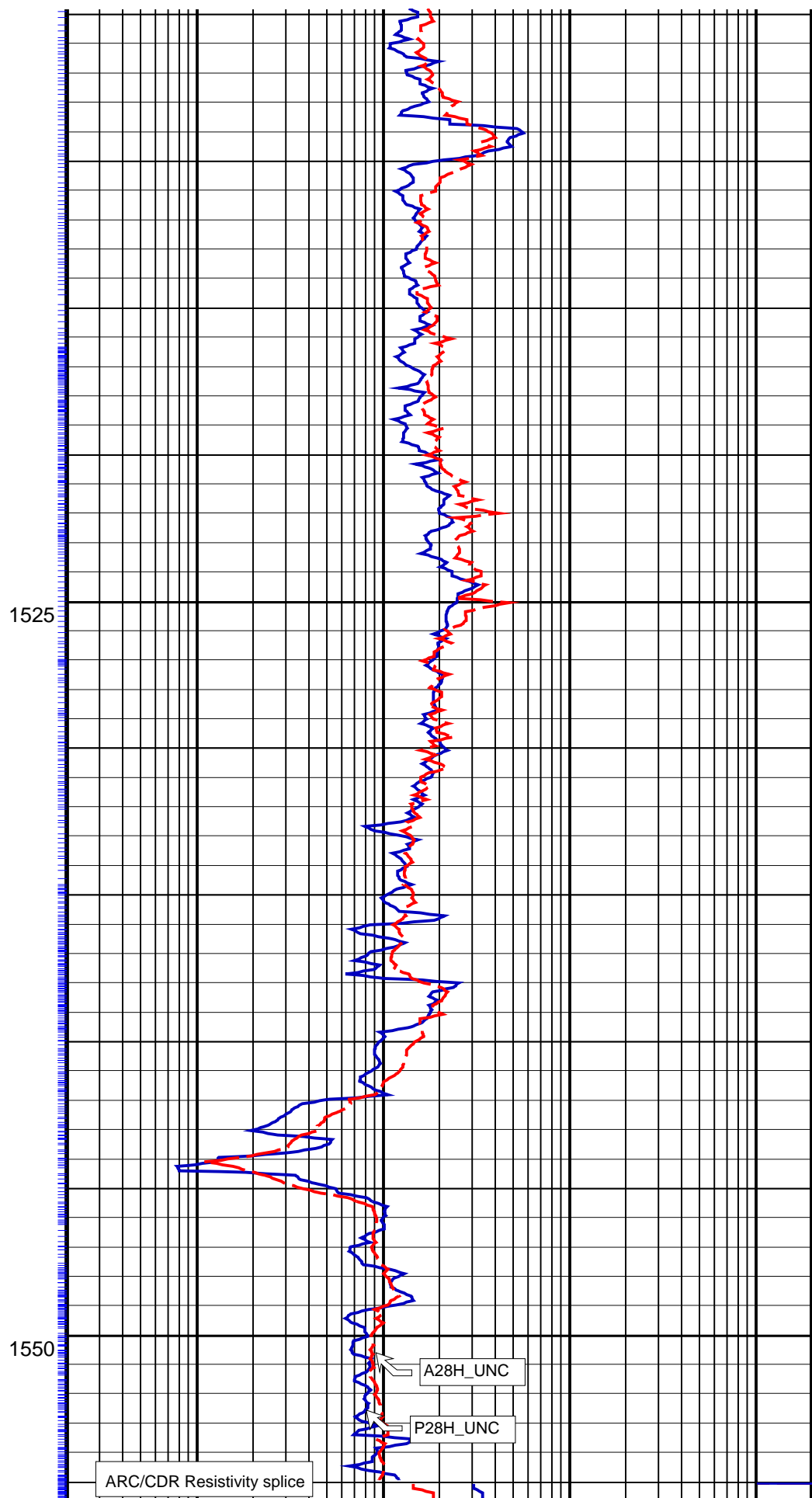
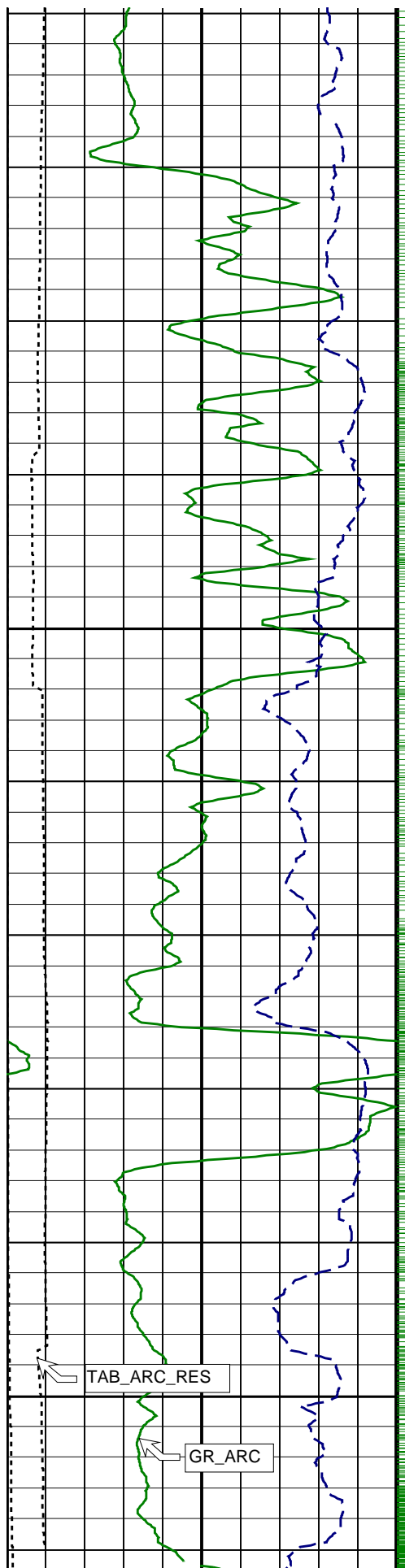
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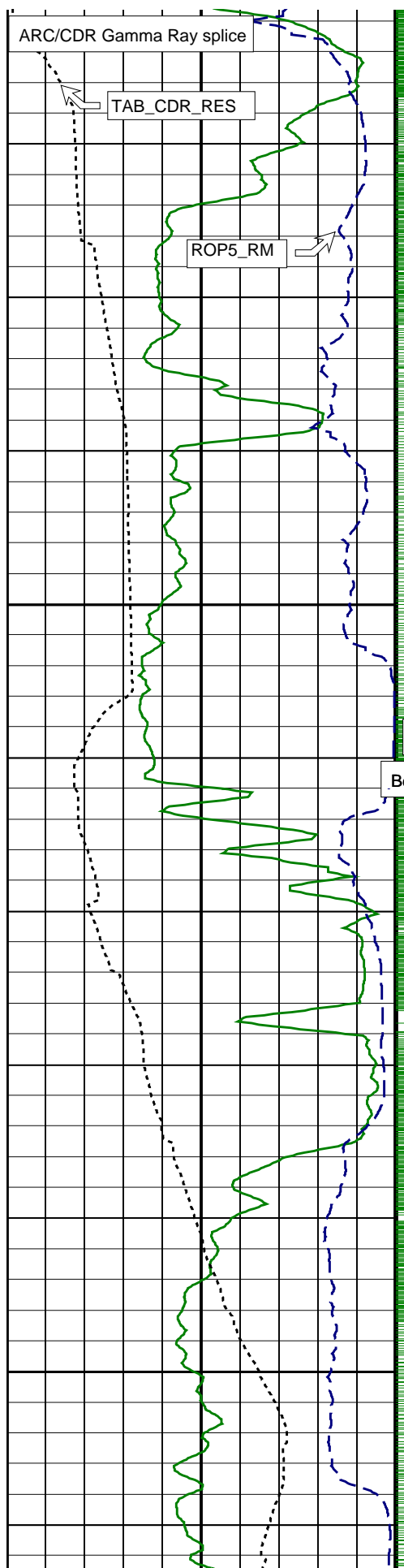
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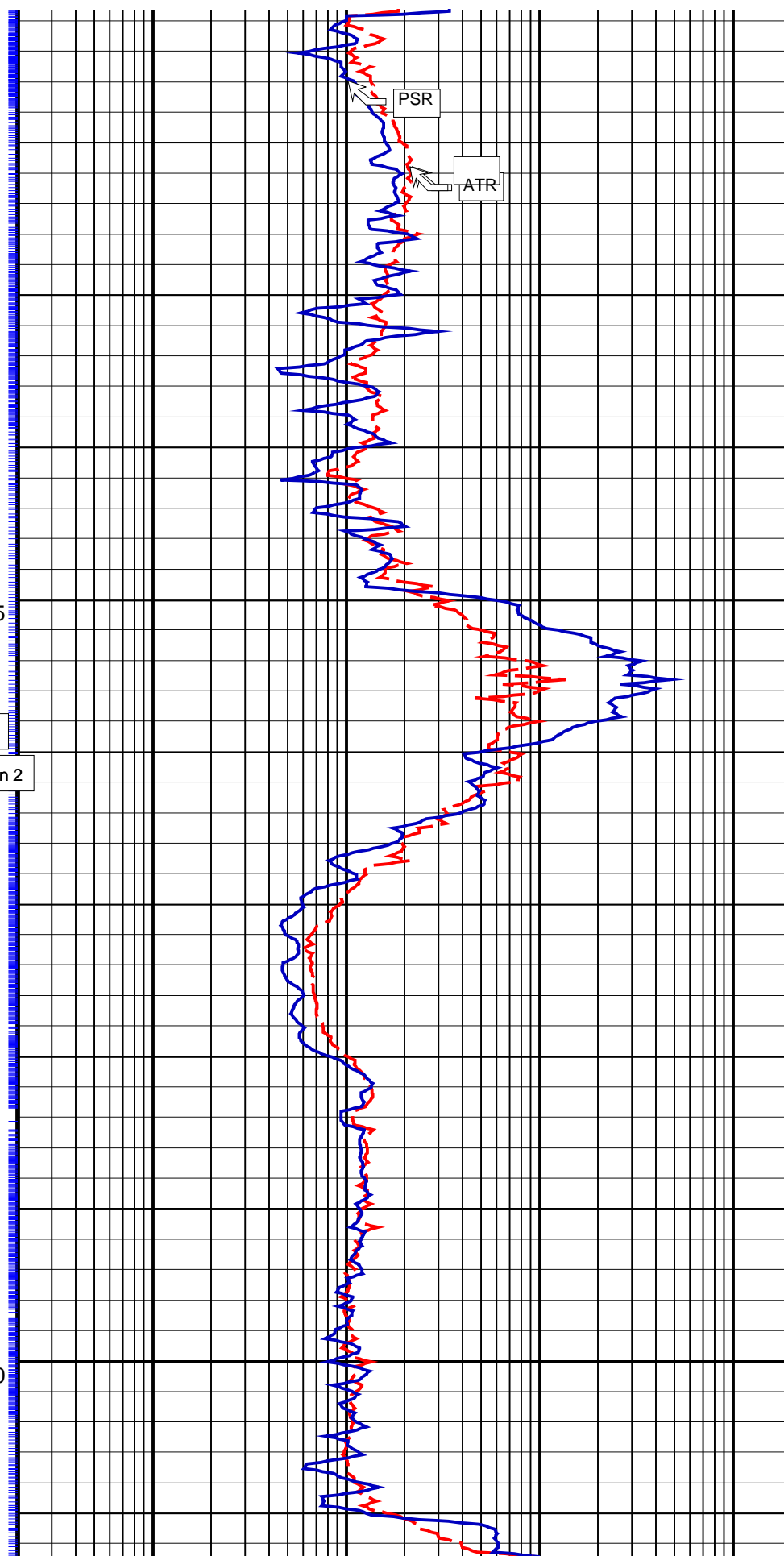


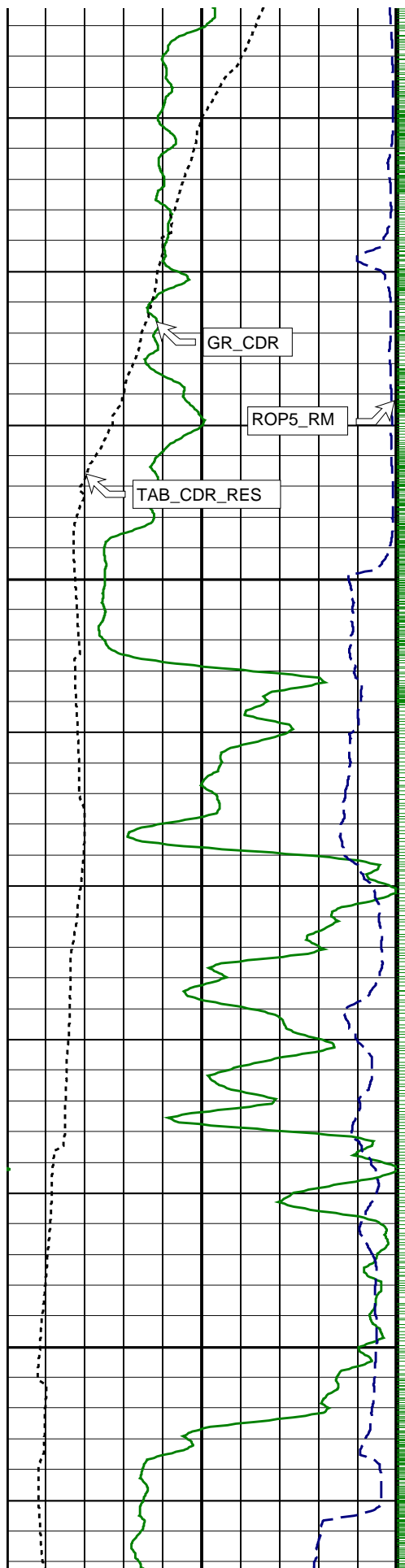
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End Run 1

Beginning Run 2

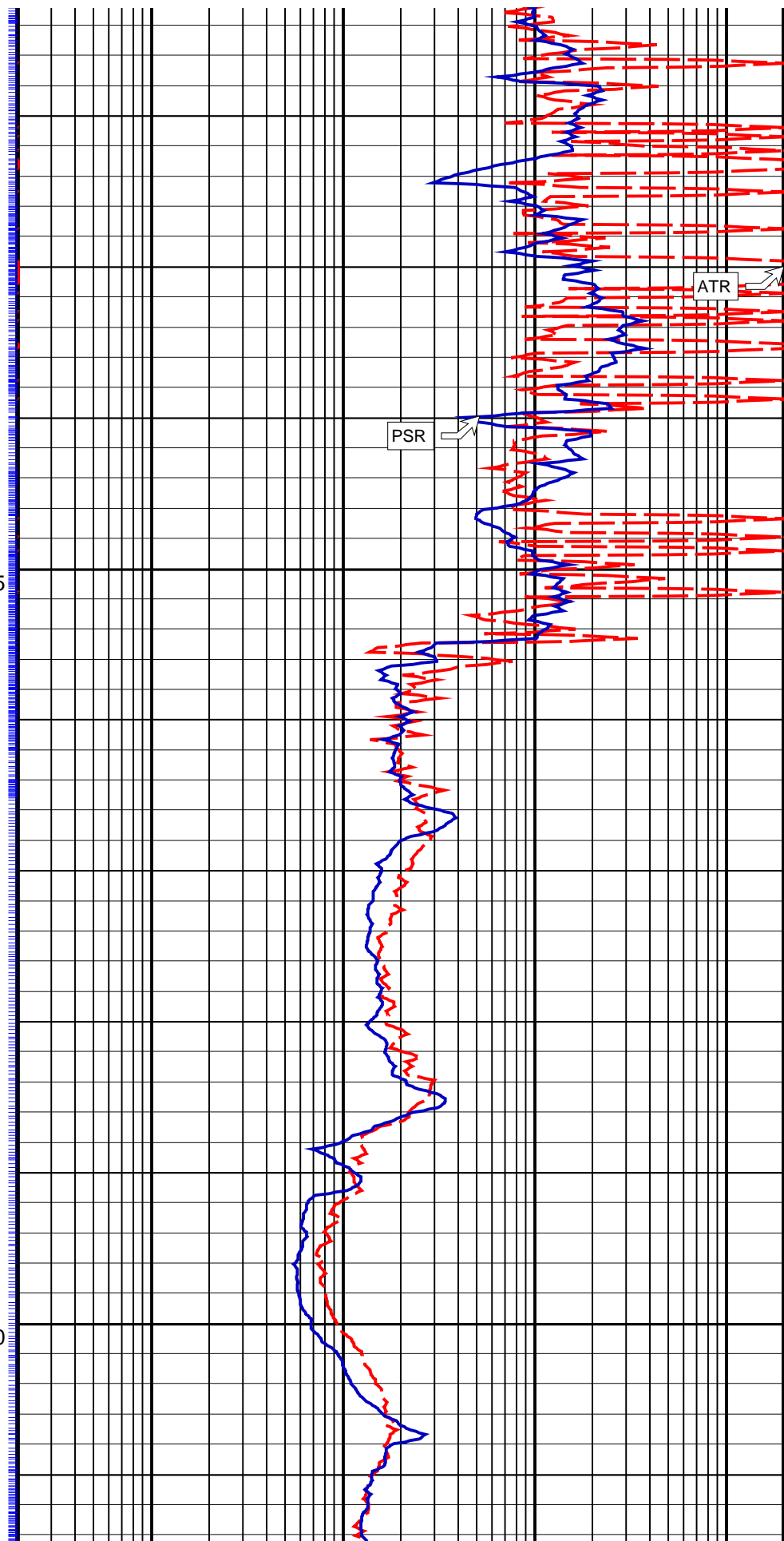
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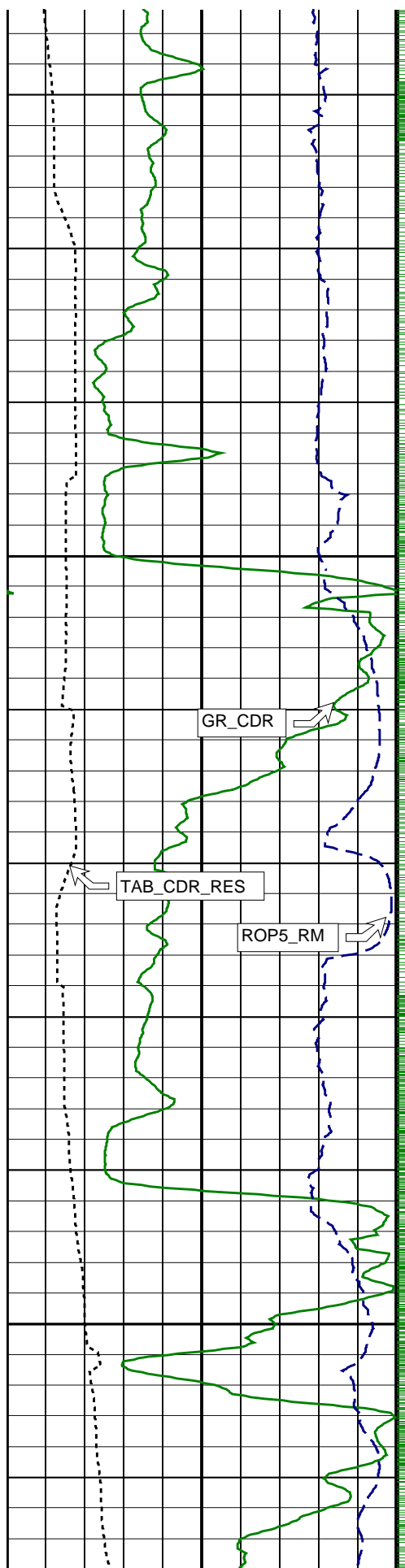




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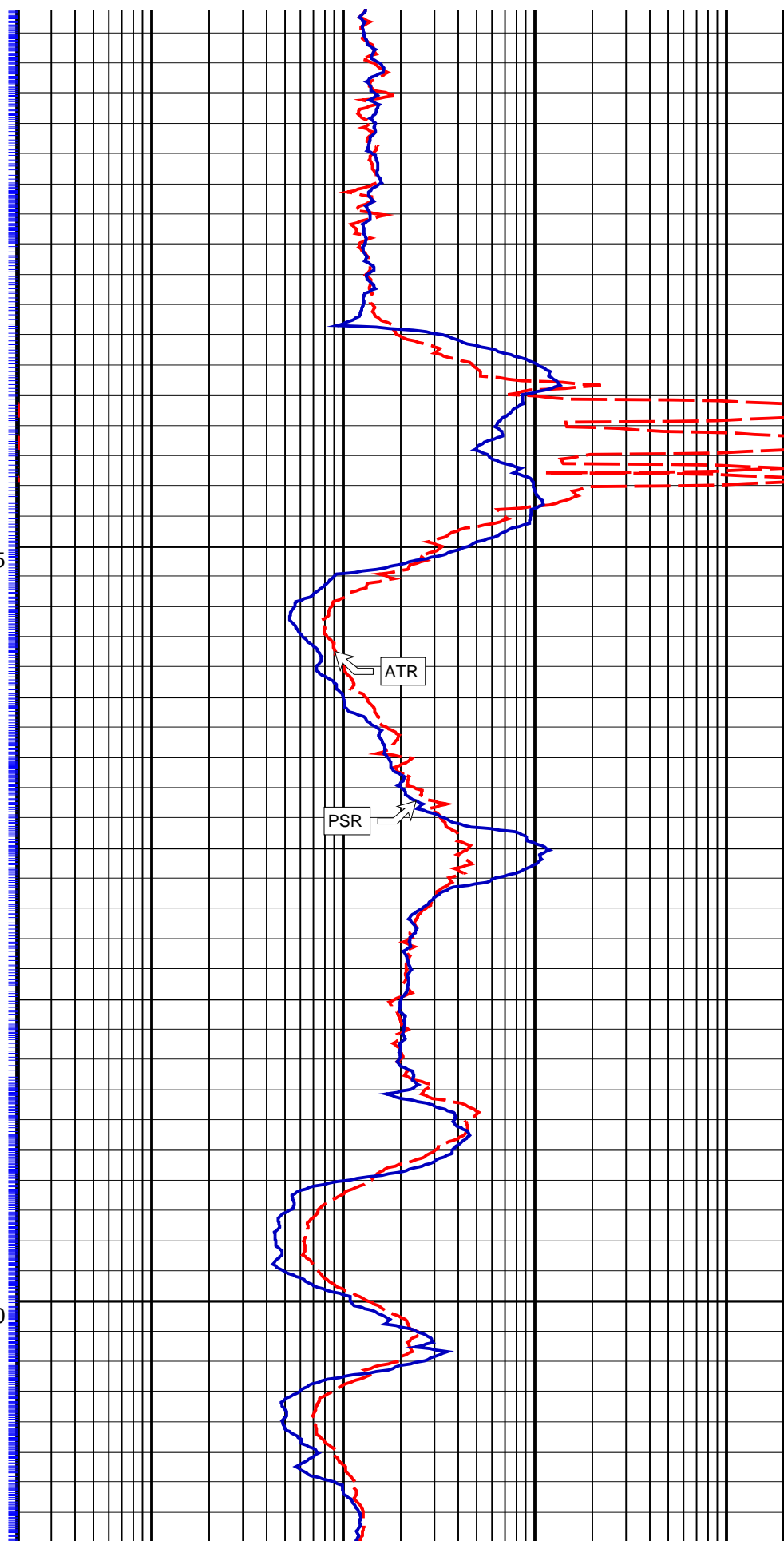
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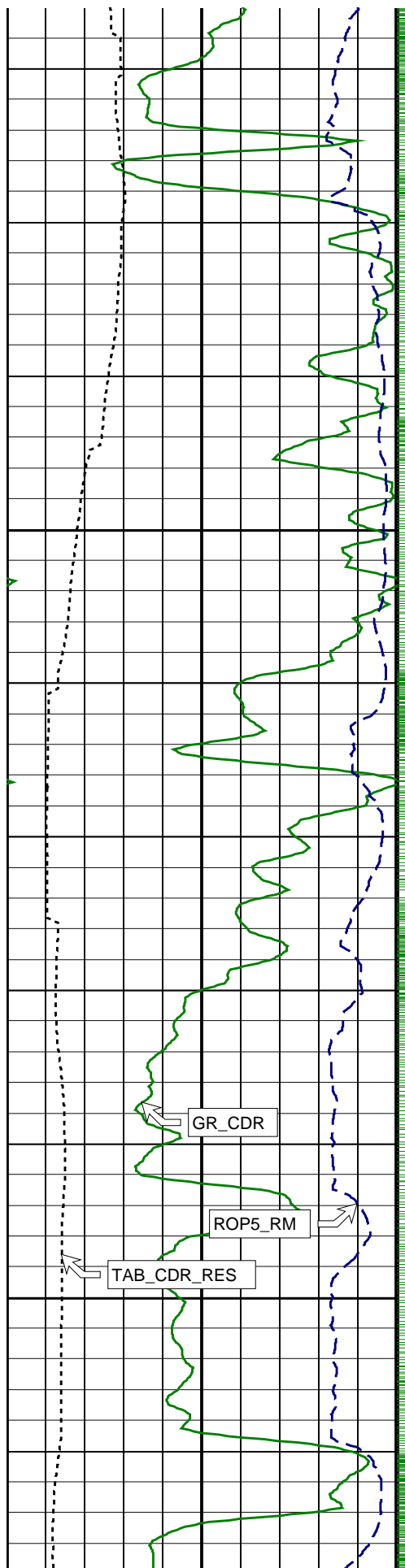




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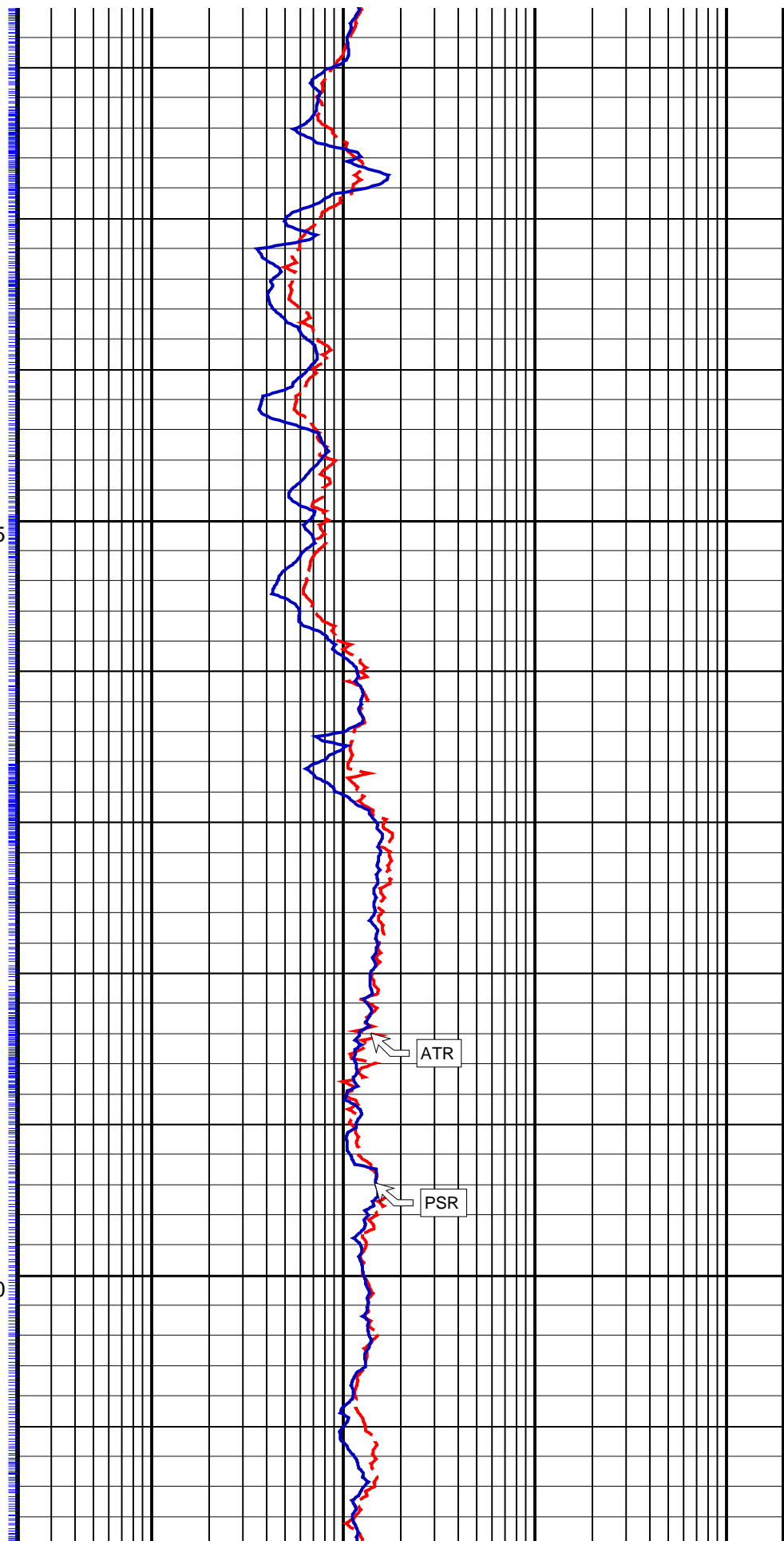
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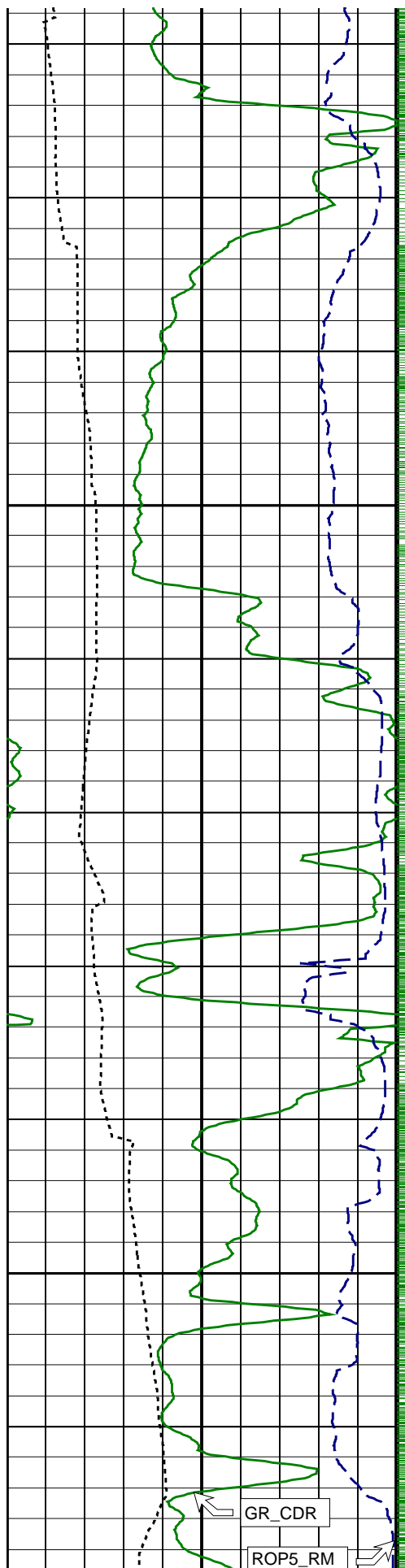




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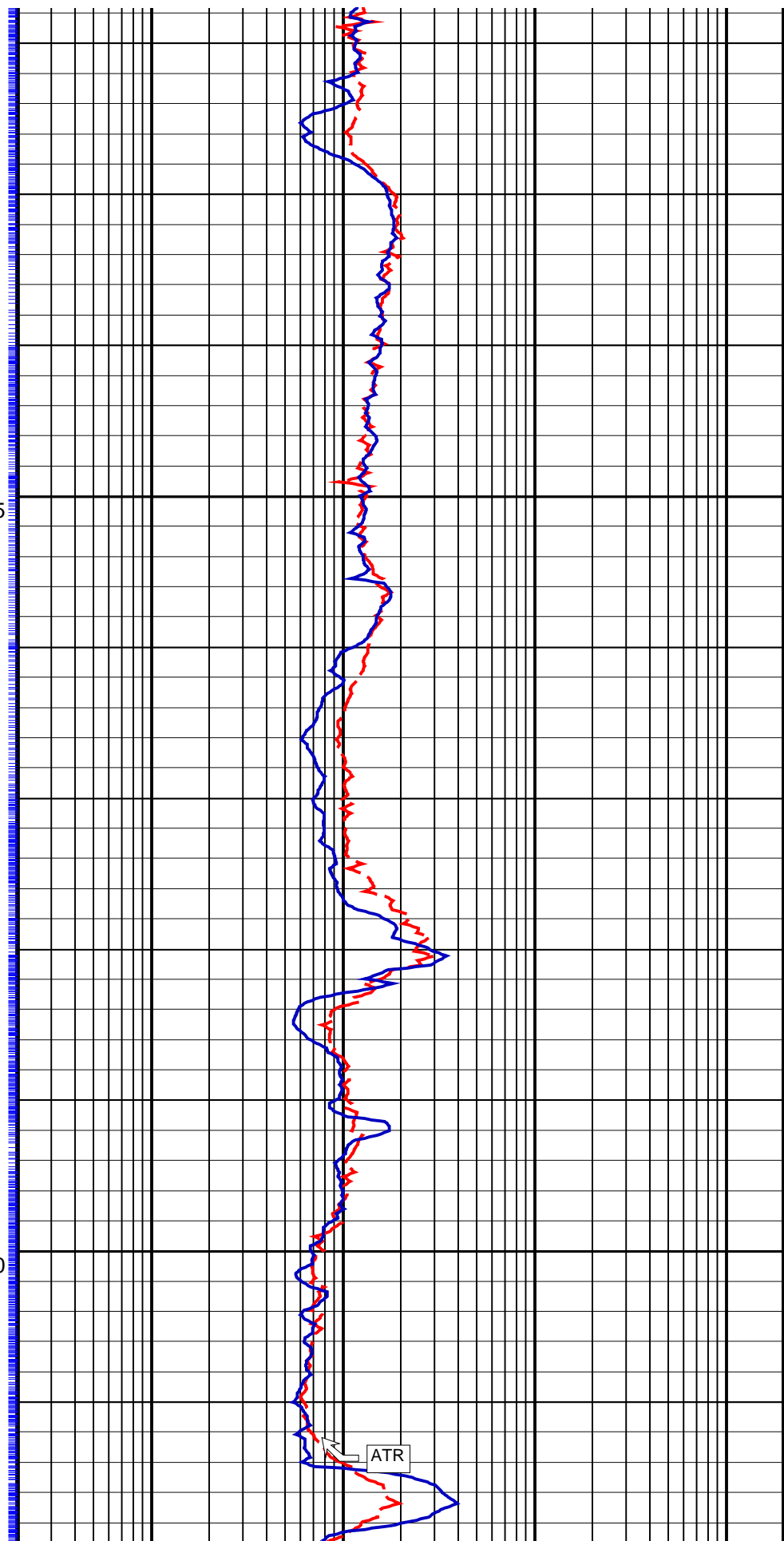
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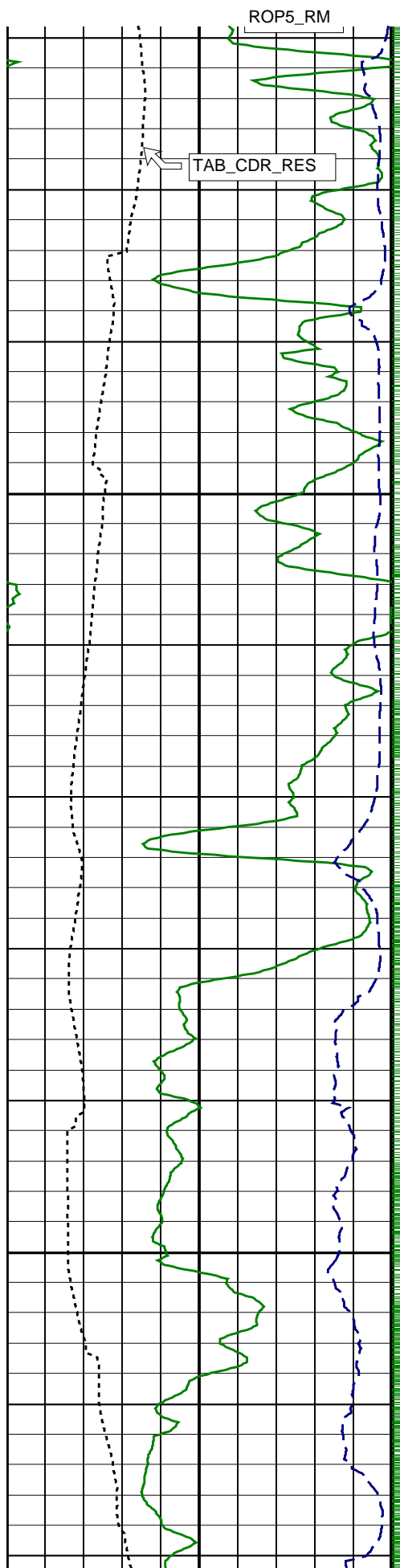




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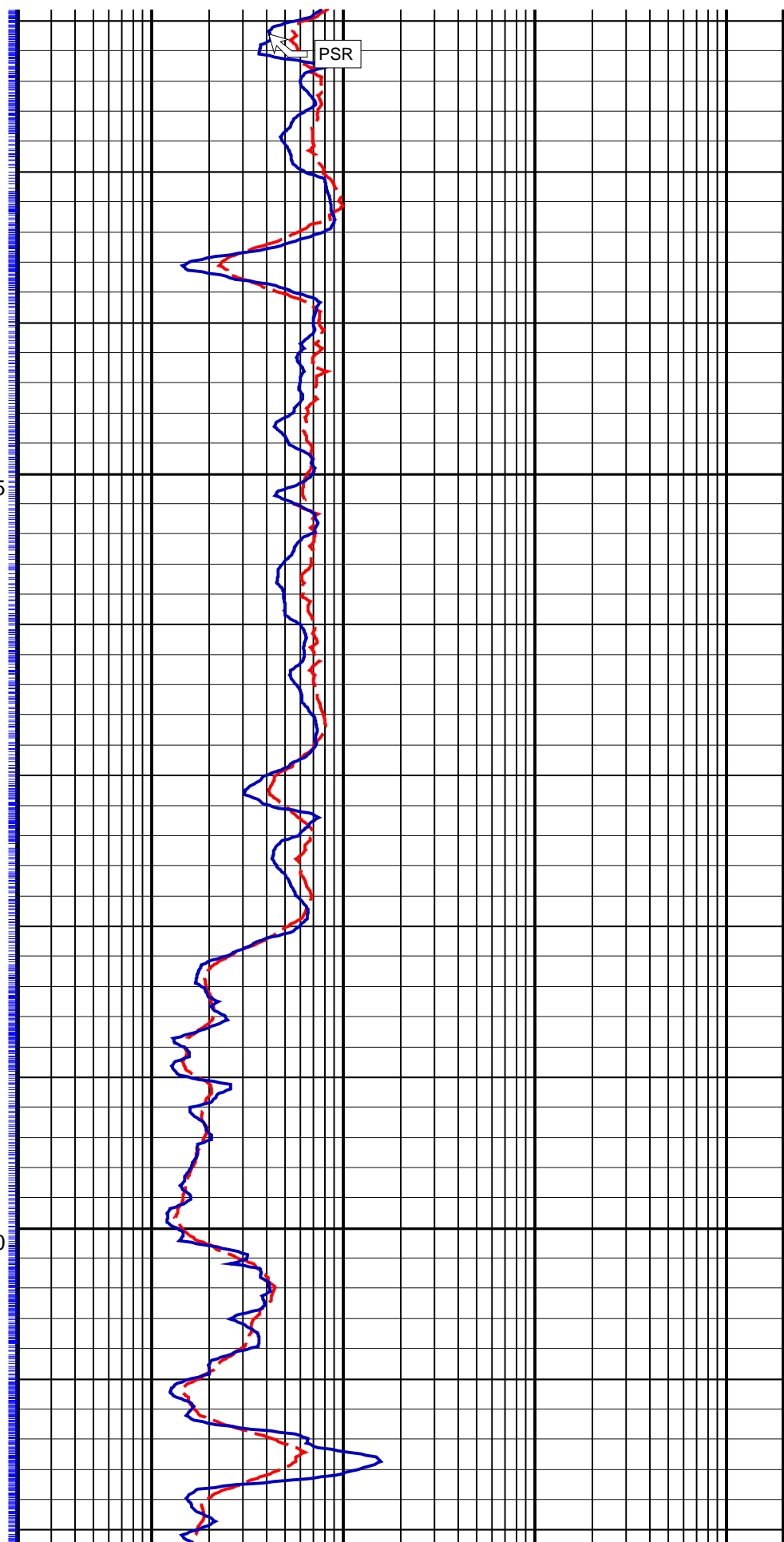
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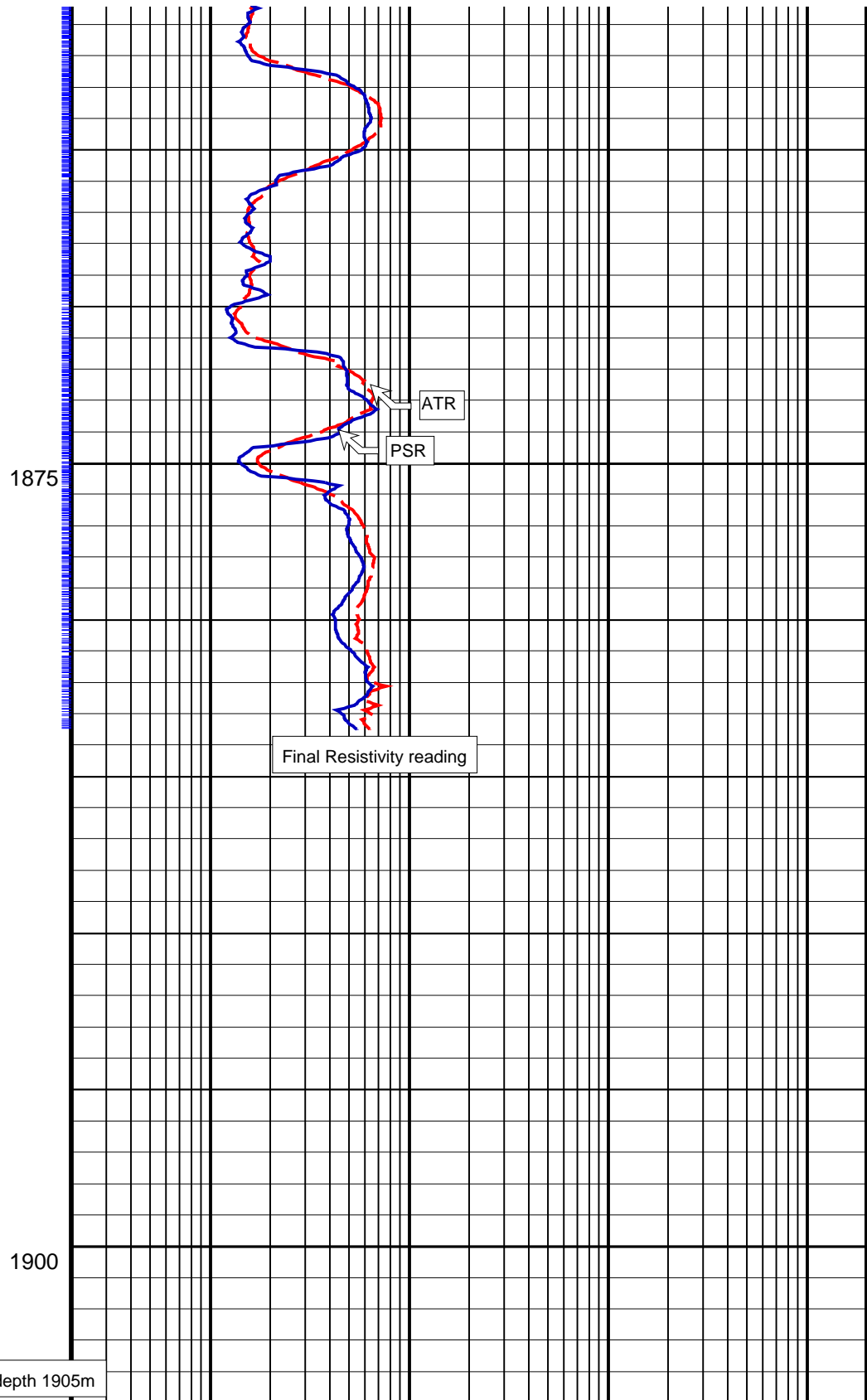
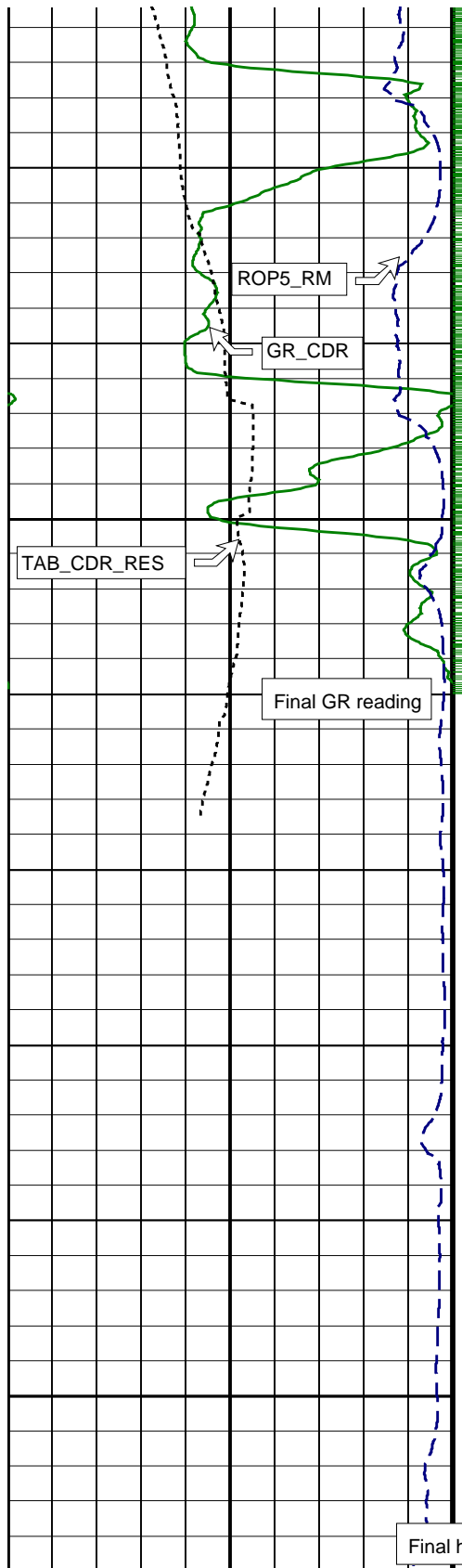




1825

1850





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

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











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







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	ARC5 – 825
ARC825 Calibration Status	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
	-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			0.8290	Master			-0.7850	Master			-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			0.7060	Master			-0.3930	Master			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			-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			7.866	Master			6.785	Master			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			4.702	Master			3.162	Master			7.873
	2.600	4.600	6.600		1.600	3.600	5.600		6.500	8.500	10.50

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			6.799	Master			4.576	Master			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			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										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						RGS9 - AA			955		
Gamma Ray Type						Plat - GR					
Calibration Status						Done					

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			3.895	Master			3.935	Master			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)	

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)		

Well.....: Beardie-1
API number.....:
Engineer.....: W.Bertheux, C.Borbas, K.Handley
COUNTY.....: Ocean Bounty
STATE.....: Victoria

Spud date.....: 26-Jul-02
Last survey date.....: 04-Aug-02
Total accepted surveys...: 45
MD of first survey.....: 0.00 m
MD of last survey.....: 1905.00 m

----- Survey calculation methods-----
Method for positions.....: Minimum curvature
Method for DLS.....: Mason & Taylor

----- Geomagnetic data -----
Magnetic model.....: BGGM version 2001
Magnetic date.....: 30-Jul-2002
Magnetic field strength...: 1202.85 HCNT
Magnetic dec (+E/W-).....: 12.95 degrees
Magnetic dip.....: -68.85 degrees

----- Depth reference -----
Permanent datum.....: MEAN SEA LEVEL
Depth reference.....: Drillers Depth
GL above permanent.....: -51.20 m

----- MWD survey Reference Criteria -----

KB above permanent.....: 0.00 m
DF above permanent.....: 25.00 m

Reference G.....: 1000.03 mGal
Reference H.....: 1202.85 HCNT
Reference Dip.....: -68.85 degrees
Tolerance of G.....: (+/-) 2.50 mGal
Tolerance of H.....: (+/-) 6.00 HCNT
Tolerance of Dip.....: (+/-) 0.45 degrees

----- Vertical section origin-----
Latitude (+N/S-).....: 0.00 m
Departure (+E/W-).....: 0.00 m

----- Platform reference point-----
Latitude (+N/S-).....: 0.00 m
Departure (+E/W-).....: 0.00 m

----- Corrections -----
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

Azimuth from rotary table to target: 0.00 degrees

[(c)2002 Anadrill IDEAL ID7_0C_02]
ANADRILL SCHLUMBERGER Survey Report

5-Aug-2002 10:00:32

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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
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	-
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	-

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
1:200 Measured Depth
Recorded Mode