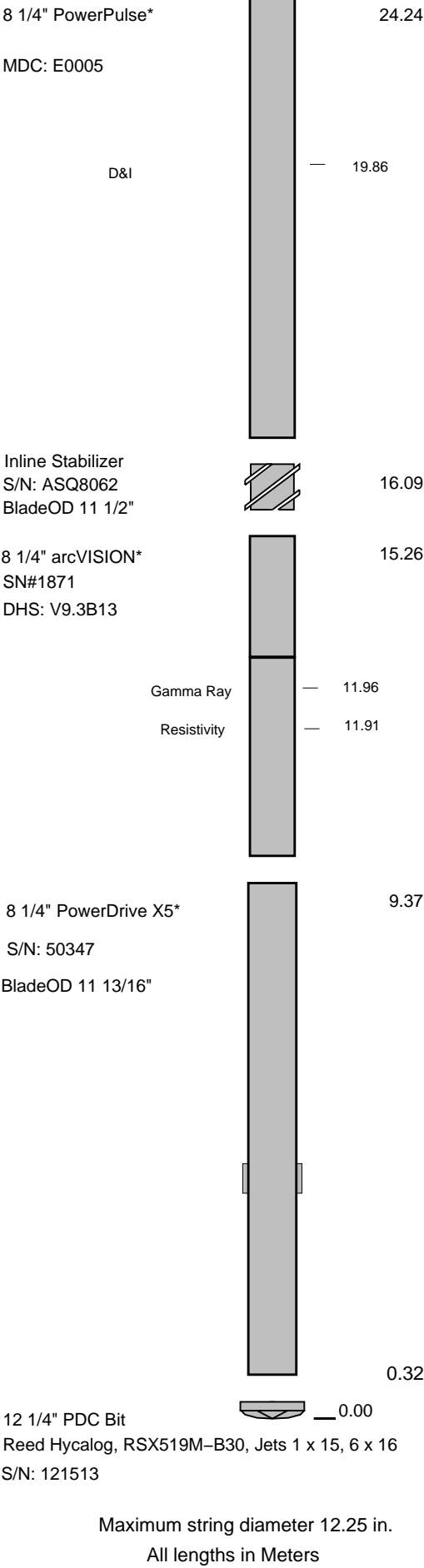
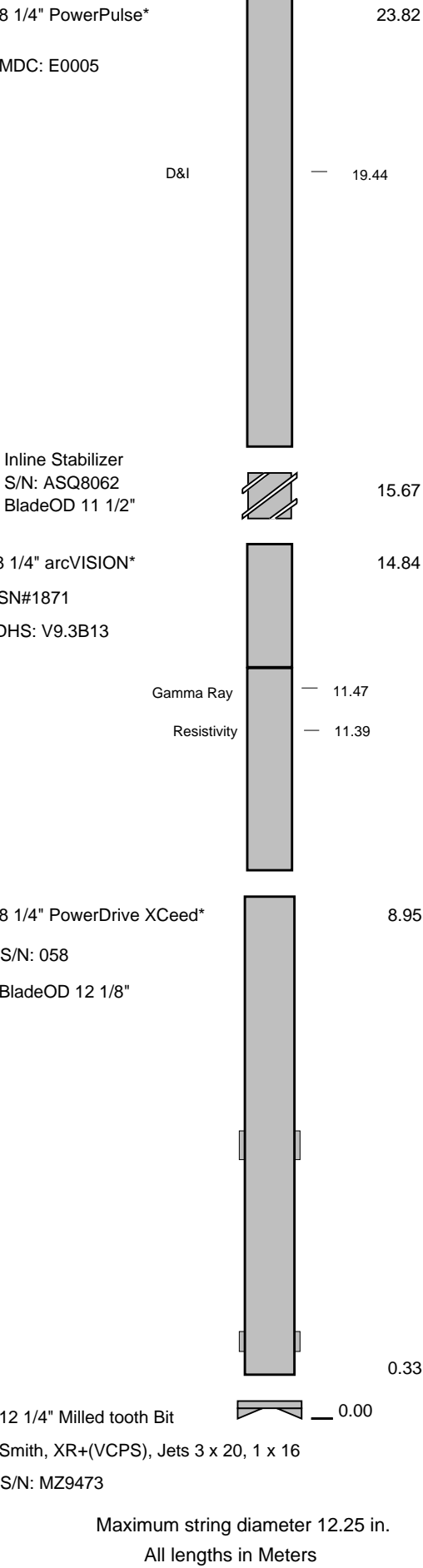


Potassium	%	3.68	3.68								
Environmental data											
GR											
Mud weight	ppg	11.00	11.0								
Bit size	in	12.25	12.25								
Resistivity											
Neutron porosity											
Hole Size	in	12.25	12.25								
Mud weight	ppg	11.00	11.0								
Temperature	°C										
Mud salinity	ppk	79.03	79.03								
Formation salinity		NA	NA								
Recording rate 1	SEC	6 ARC	6 ARC								
Recording rate 2	SEC										
Filtering GR		3 PTS	3 PTS								
Filtering density		NA	NA								
Filtering Neutron		NA	NA								
Company representative		Peter Devine	Rohan Richardson								
Anadrill personnel		Agus Partono	Matt Blacker	Anagh Kohli	Uzma Hassan	Mike van Kampen					

<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>		
OTHER SERVICES FOR RUN6 Directional Drilling. Directional Surveys. Annulus pressure and temperature. Washout detection.	OTHER SERVICES FOR RUN7 Directional Drilling. Directional Surveys. Annulus pressure and temperature. Washout detection.	OTHER SERVICES FOR RUN
REMARKS: RUN NUMBER 6 Depth is refernced to Driller's depth. ARC Gamma Ray is corrected for mud weight, bit size, tool collar size, and potassium content in mud. ARC Resistivity is borehole compensated and environmentally corrected for bit size, mud resistivity and temperature. POOH due to change of Bit and BHA.	REMARKS: RUN NUMBER 7 Depth is refernced to Driller's depth. ARC Gamma Ray is corrected for mud weight, bit size, tool collar size, and potassium content in mud. ARC Resistivity is borehole compensated and environmentally corrected for bit size, mud resistivity and temperature. POOH due to TD @ 2047m.	REMARKS: RUN NUMBER

EQUIPMENT DESCRIPTION		
RUN6	RUN7	RUN
DOWNHOLE EQUIPMENT	DOWNHOLE EQUIPMENT	



Variable Name	Variable Description	Run Name & Value		
	Run Number		6	7
	General Information			
BHT_RM	Bottom Hole Temperature (RM)	DEGC	58.00	65.000
BSAL_RM	Mud Salinity (RM)	PPK	79.027	80.387
BS_RM	Bit Size (RM)	IN	12.250	12.250
COEF_M	User Defined FEXP in Clean Sand	----	1.650	1.650
C_WS	Overpressure correction to Sw and M	----	1.000	1.000
FEXP	Formation Factor Exponent (RM)	----	2.000	2.000
FNUM	Formation Factor Enumerator(RM)	----	1.000	1.000
FPHI_RM	Formation Factor Porosity Source (RM)	----	XPLOT	XPLOT
MST_RM	Mud Sample temperature (RM)	DEGC	23.889	23.800
MW_RM	Mud Weight (RM)	LB/G	10.000	11.000
OBMF_RM	Oil Based Mud (RM)	----	NO	NO
RHOF_RM	Mud Filtrate Density (RM)	G/C3	1.000	1.000
RHOM_RM	Matrix density (RM)	G/C3	2.710	2.710
RMS_RM	Resistivity of Mud Sample (RM)	OHMM	0.120	0.108
RWA_COMP_M	Rwa computation model			
RWA_DEN_AD	Rwa Density Input ADN			
RWA_DEN_CD	Rwa Density Input CDN			
RWA_DEN_IN	Rwa Density Input			
RWA_FORM_M	Rwa computation formation model			
RWA_RES_IN	Rwa computation resistivity input			
RWS_RM	Resistivity of Connate Water (RM)	OHMM	1.000	1.000
SHT_RM	Ground Level Temperature (Mud-Line When Offshore) (RM)	DEGC	10.000	10.000
TD_RM	Total Measured Depth (RM)	M	1708.00	2047.000
TWS_RM	Temperature of Connate Water (RM)	DEGC	23.889	23.889
VF_ILLI	Fraction of illite in shales	----	0.500	0.500
VF_KAOL	Fraction of kaolinite in shales	----	0.500	0.500
VF_MONT	Fraction of montmorillonite in shales	----	0.000	0.000
XPDM_RM	Cross plot density porosity multiplier	----	0.675	0.675
XPNM_RM	Cross plot neutron porosity multiplier	----	0.325	0.325
	ARC			
A12A	ARC Air Cal Attenuation From T1 at 2 MHz	DB	8.288	8.288
A14A	ARC Air Cal Attenuation From T1 at 400 KHz	DB	8.320	8.320
A22A	ARC Air Cal Attenuation From T2 at 2 MHz	DB	6.362	6.362
A24A	ARC Air Cal Attenuation From T2 at 400 KHz	DB	6.340	6.340
A32A	ARC Air Cal Attenuation From T3 at 2 MHz	DB	5.012	5.012
A34A	ARC Air Cal Attenuation From T3 at 400 KHz	DB	5.037	5.037
A42A	ARC Air Cal Attenuation From T4 at 2 MHz	DB	4.319	4.319
A44A	ARC Air Cal Attenuation From T4 at 400 KHz	DB	4.302	4.302
A52A	ARC Air Cal Attenuation From T5 at 2 MHz	DB	3.602	3.602
A54A	ARC Air Cal Attenuation From T5 at 400 KHz	DB	3.639	3.639
ABNT	Abnormal Transmitter Indicator	----	No_Tx_Failed	No_Tx_Failed
ADHS	ARC Down Hole Software Version	----	No_Tx_Failed	No_Tx_Failed
AM2A	ARC Air Cal Amplitude Offset at 2 MHz	----	-50000.000	-50000.000
ANISO_COMPUTE	Anisotropy Computation Option	----	YES	YES
APICG	ARC5 Gamma Ray Gain Factor	----	1.064	1.064
APIG	ARC Gamma Ray API Gain Factor	----	-1.000	-1.000
ARC_DATA_FIX	ARC: Create A Corrected ARC Time Data File	----	NO	NO
ARC_DATA_LTB	ARC: Create An ARC LTB Data File	----	NO	NO
ATMP_ARC	ARC Select Temperature Channel	----	Annulus_Temp	Annulus_Temp
ATRN	ARC Tool Run Number	----	6	7
ATSN	ARC Tool Serial Number	----	1871	1871
AZMF	Formation DIP Azimuth	DEG	0.000	0.000
BH_COMPUTE	Borehole Inversion Computation Option	----	YES	YES
CALG	ARC Gamma Ray Cal Gain Factor	----	1.064	1.064
CALI_SLCT_ARC	ARC Caliper Selection	----	BITSIZE	BITSIZE
CDPTH_ARC	Process Start Depth	M	30.480	30.480
DIELEC_COMPUTE	Dielectric Computation Option	----	YES	YES
DIPF	Formation DIP Angle	DEG	0.000	0.000
ERRCT	Percentage Error Cutoff	----	4.500	4.500
GRSH	GR Shale (Invasion Computation Cutoff)	GAPI	1000.000	1000.000
HIGH_BLEND	High Resistivity Threshold for Blending	OHMM	2.000	2.000
INCLIN_B0	ARC Bias Constant (mg)	----	0.000	0.000
INCLIN_B1	ARC Bias First-order Coefficient (mg/degC)	----	0.000	0.000
INCLIN_B2	ARC Bias Secod-order Coeeficient (mg/degC)	----	0.000	0.000
INCLIN_B3	ARC Bias Third-order Coeeficient (mg/degC)	----	0.000	0.000
INCLIN_C0	ARC Current Scale Factor Constant (mA/g)	----	1.000	1.000
INCLIN_C1	ARC Scale First-order Coeeficient (mA/g/degC)	----	0.000	0.000
INCLIN_C2	ARC Scale Second-order Coeeficient (mA/g/degC)	----	0.000	0.000
INCLIN_C3	ARC Scale Third-order Coeeficient (mA/g/degC)	----	0.000	0.000
INVAS_COMPUTE	Invasion Computation Option	----	YES	YES
JSD_ARC	ARC Acquisition start date dd-mmm-yyyy	----	14-Sep-2008	16-Sep-2008
KPER	Potassium Concentration (RM)	%	3.680	3.680
LOW_BLEND	Low Resistivity Threshold for Blending	OHMM	1.000	1.000
MSWS	ARC Wizard Model Switch Window	M	1.524	1.524
MULTIEFFECT_COM	Multi Effect Option	----	YES	YES
P11AC_RM	ARC: Air Calibration For Phase T1 to R1	DEG	-999.250	-999.250
P12A	ARC Air Cal Phase-Shift From T1 at 2 MHz	DEG	2.991	2.991
P14A	ARC Air Cal Phase-Shift From T1 at 400 KHz	DEG	-1.569	-1.569
P22A	ARC Air Cal Phase-Shift From T2 at 2 MHz	DEG	-2.875	-2.875
P24A	ARC Air Cal Phase-Shift From T2 at 400 KHz	DEG	1.403	1.403
P32A	ARC Air Cal Phase-Shift From T3 at 2 MHz	DEG	2.903	2.903
P34A	ARC Air Cal Phase-Shift From T3 at 400 KHz	DEG	-1.514	-1.514
P42A	ARC Air Cal Phase-Shift From T4 at 2 MHz	DEG	-2.905	-2.905
P44A	ARC Air Cal Phase-Shift From T4 at 400 KHz	DEG	1.425	1.425
P52A	ARC Air Cal Phase-Shift From T5 at 2 MHz	DEG	2.873	2.873
P54A	ARC Air Cal Phase-Shift From T5 at 400 KHz	DEG	-1.540	-1.540

POFFSET_ARC	ARC: Pressure Offset	PSI	0.000	0.000
PRTD	Preferred Resistivity Log for Rt Display while Multi-Effects	----	P34B	P34B
PSOF_ADJ_T1	ARC: User Input Phase offset	DEG	0.000	0.000
RESTIK	ARC resistivity tick source	----	Phase	Phase
RSD	LWD run start date dd-mmm-yyyy	----	14-Sep-2008	16-Sep-2008
RWA_COMP_MOD	Rwa computation model	----	BASIC	BASIC
RWA_DEN_ADN	Rwa Density Input	----	RHOB	RHOB
RWA_DEN_CDN	Rwa Density Input	----	RHOB	RHOB
RWA_DEN_INPUT	Rwa Density Input	----	RHOB	RHOB
RWA_FORM_MOD	Rwa computation formation model	----	CLASTIC	CLASTIC
RWA_RES_INPUT	Rwa computation resistivity input	----	RT	RT
SHIG	ARC High Shock Risk Level	CPS	0.500	0.500
SMED	ARC Medium Shock Risk Level	CPS	0.330	0.330
SMIN	ARC Minimum Shock Risk Level	CPS	0.160	0.160
SUPD	ARC Real Time Shock Update Rate	S	30.000	30.000
TCODE_ARC	ARC Tool File Code	S	30.000	30.000
TSIZ_ARC	ARC Tool Size	IN	8.250	8.250
UNIFORM_COMPUTE	Uniform Rock Option	----	YES	YES
VERS_ARC	ARC Down hole software version Number	----	9.300	9.300
WRK	to Report Potassium Concentration (RM)	----	K_by_Wgt_%	K_by_Wgt_%

Schlumberger Drilling & Measurements

ID13 Parameter Insert Header Software vers:

VISION Resistivity 400Khz 200MD

Format: VISION Resistivity 400kHz Vertical Scale: 1:200 Graphics File Created: 05-Oct-2008 08:25

PIP SUMMARY

- └ ARC Gamma Ray Samples
- └ ARC Resistivity Samples

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

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

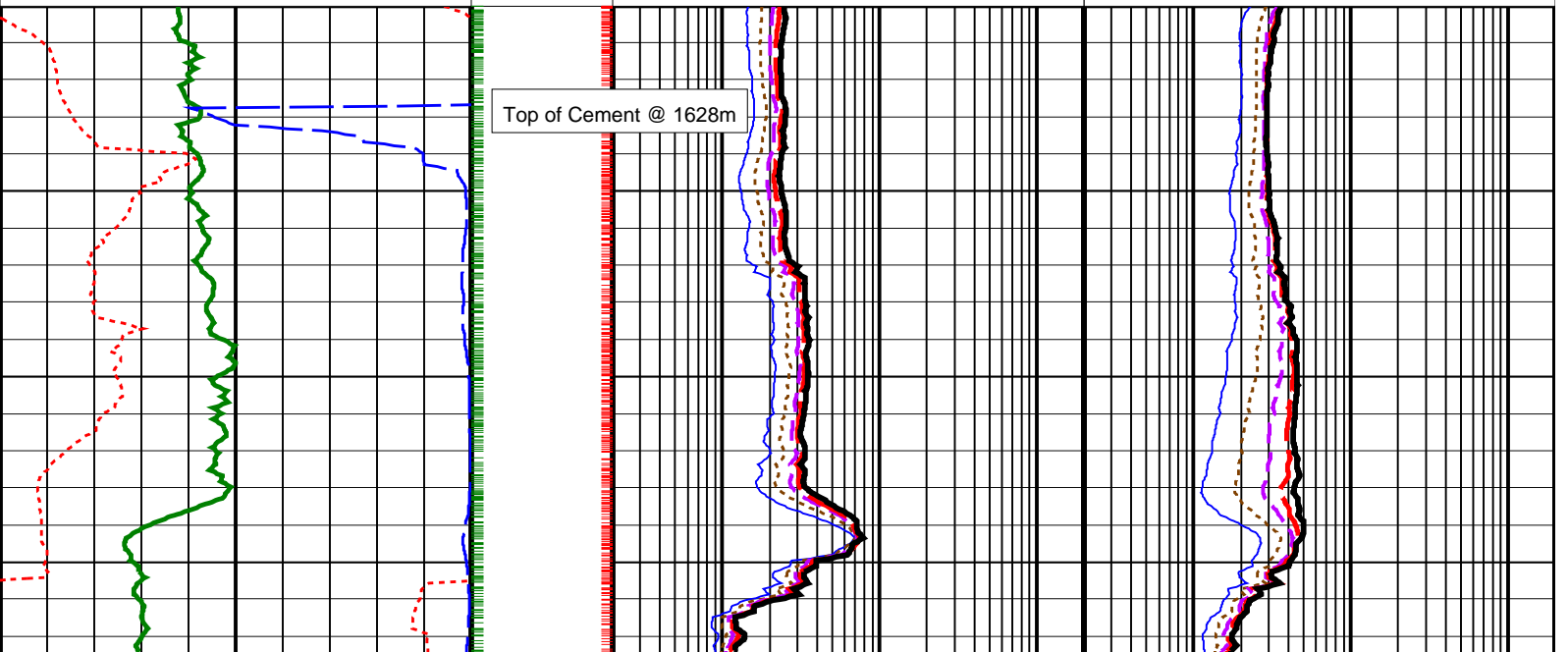
200 (M/HR) 0

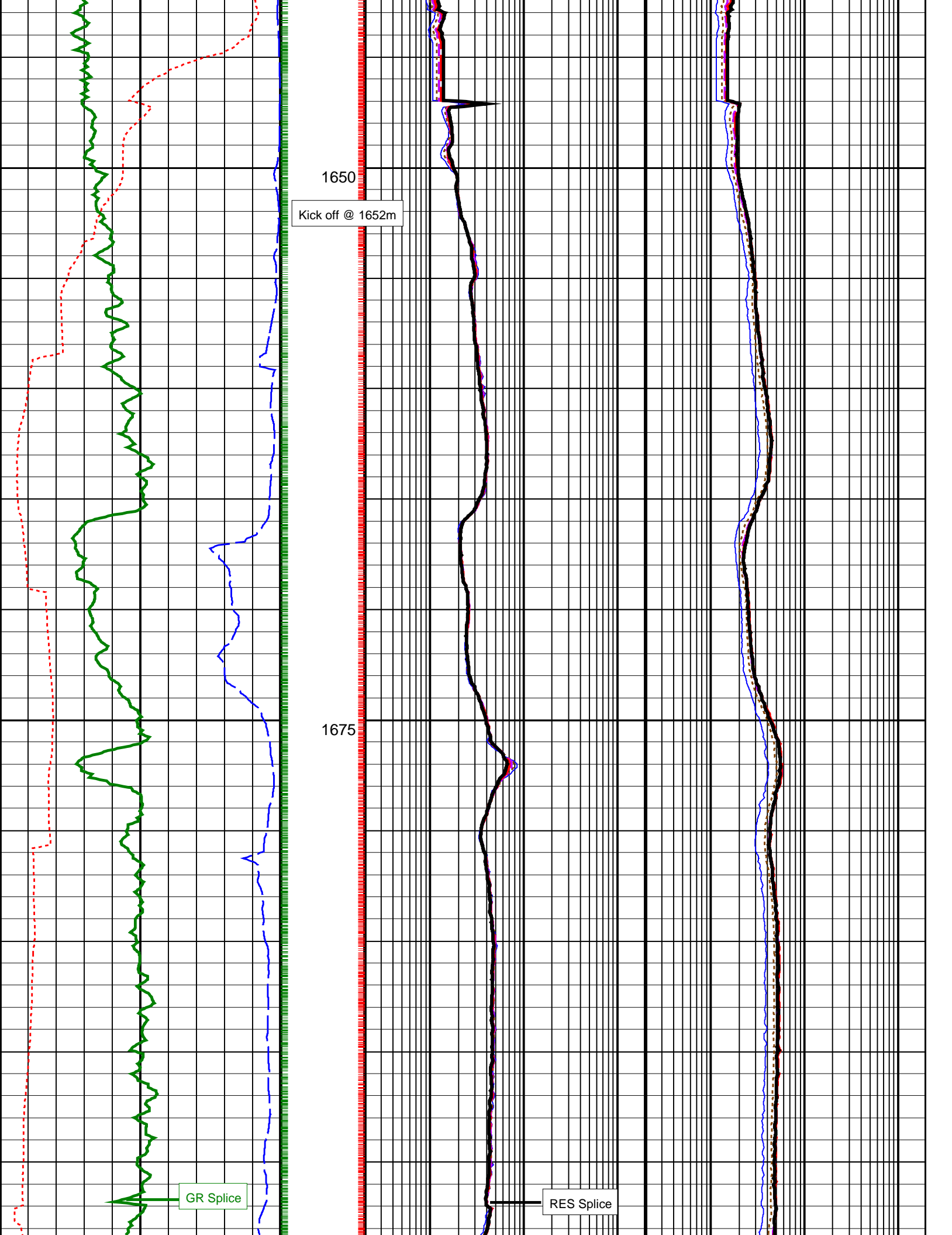
ARC Resistivity Time After Bit (TAB_ARC_RES)

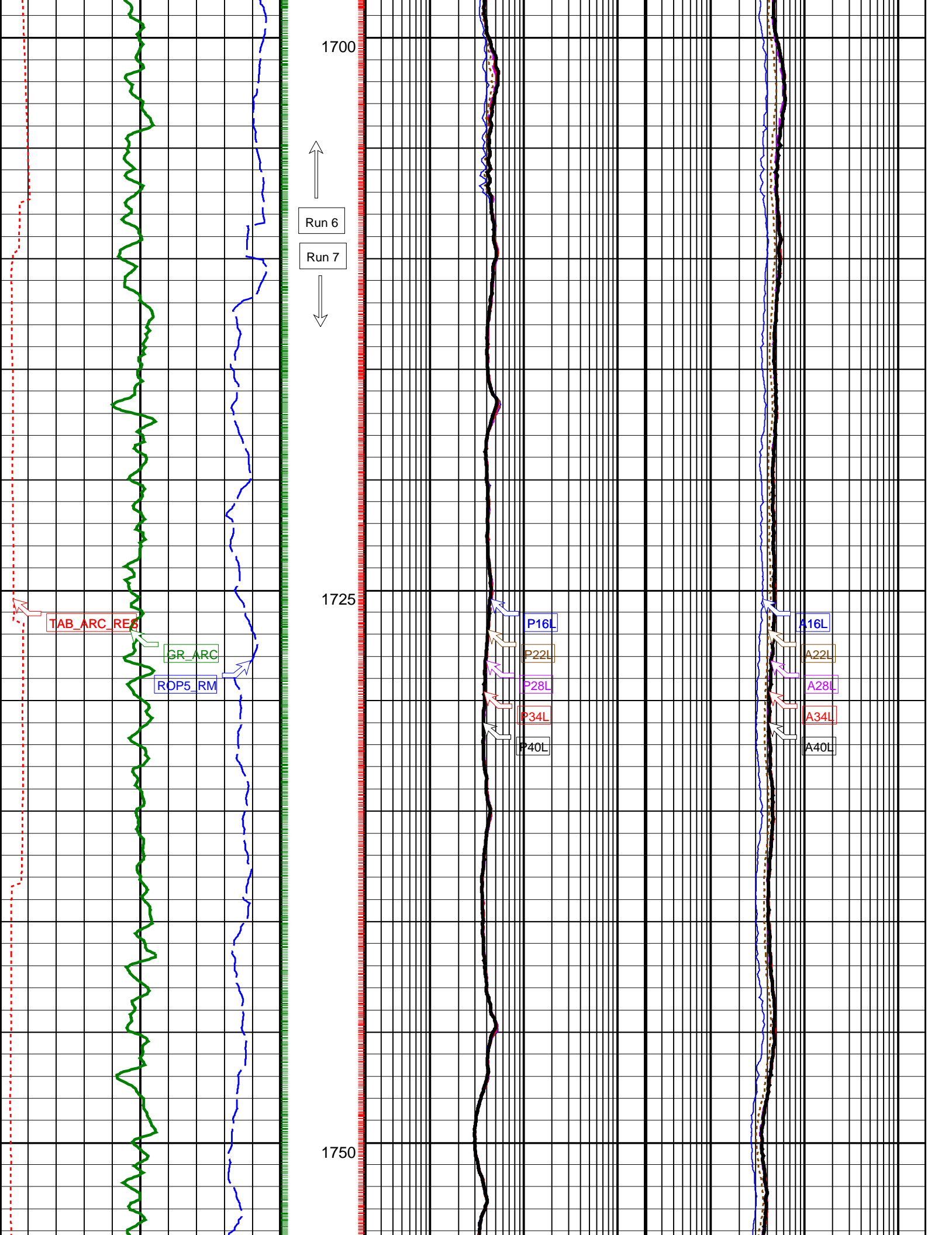
0 (HR) 10

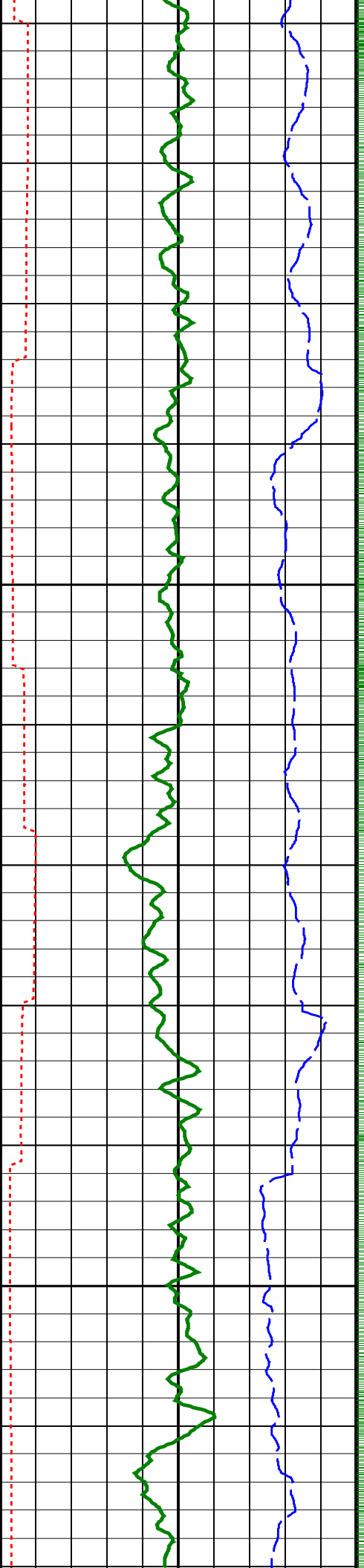
ARC Gamma Ray (GR_ARC)

0 (GAPI) 200



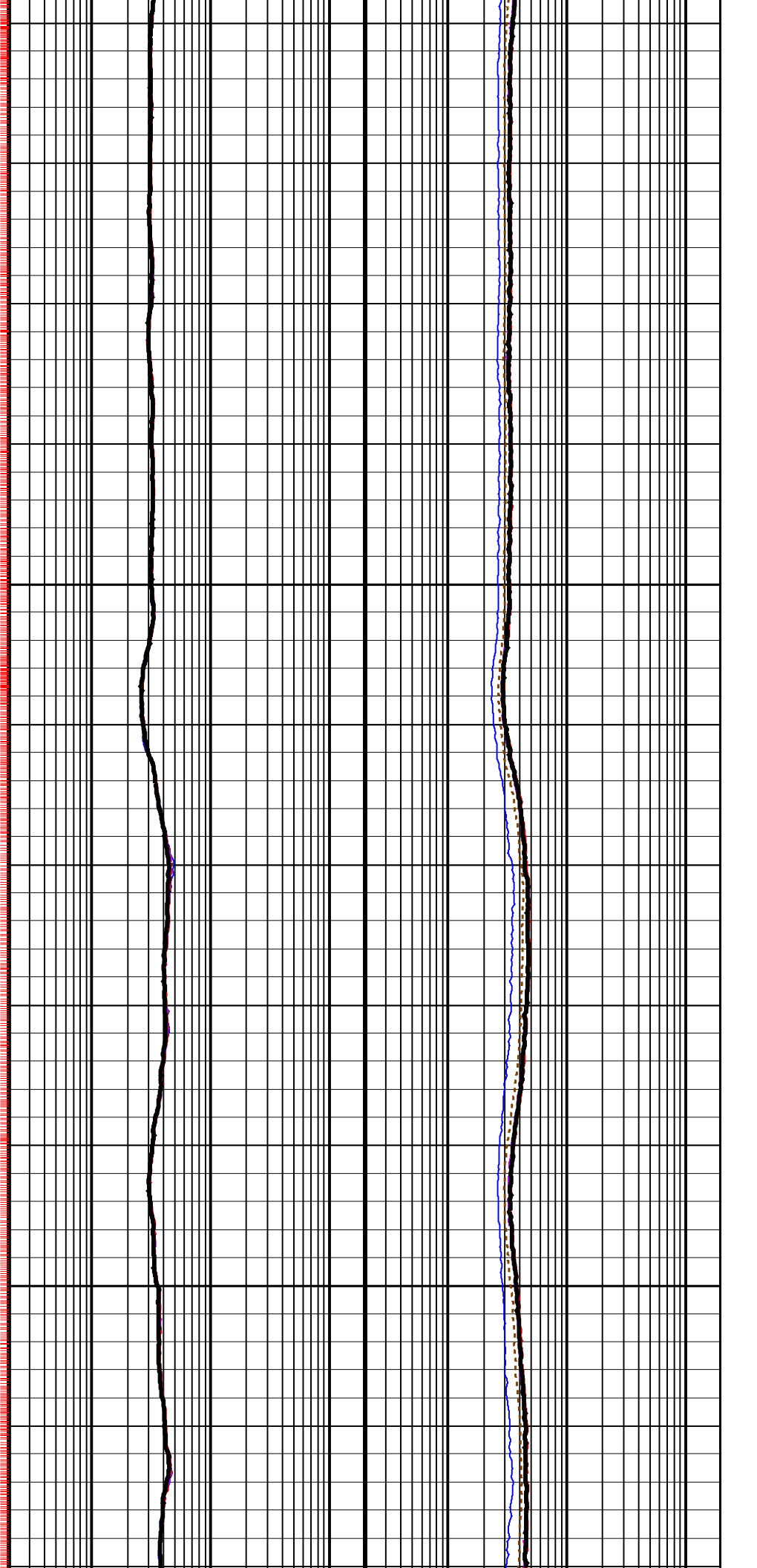


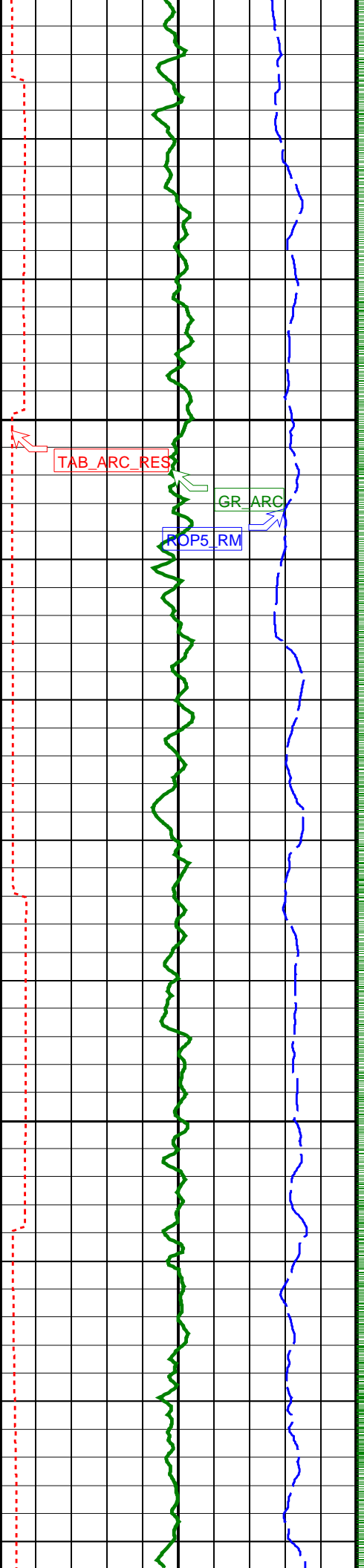




1775

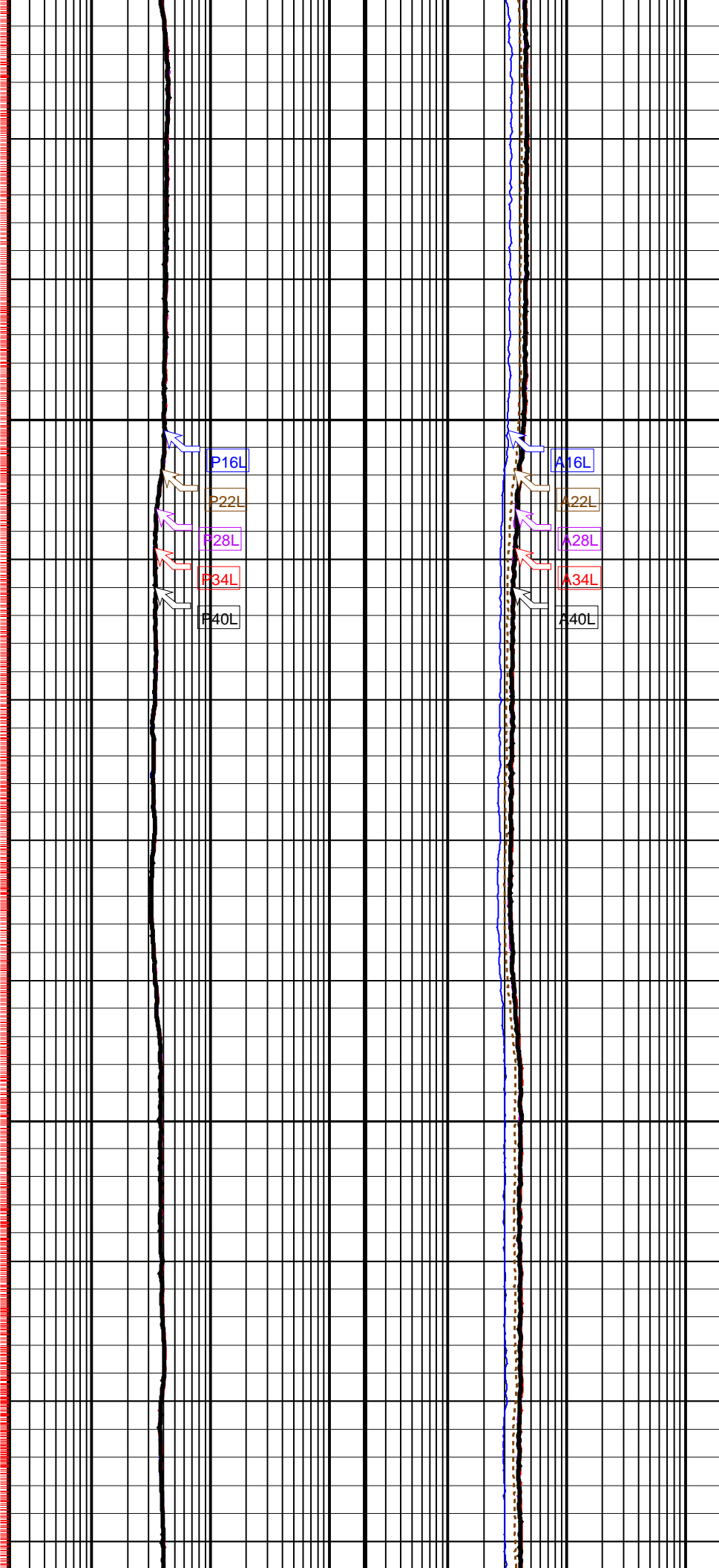
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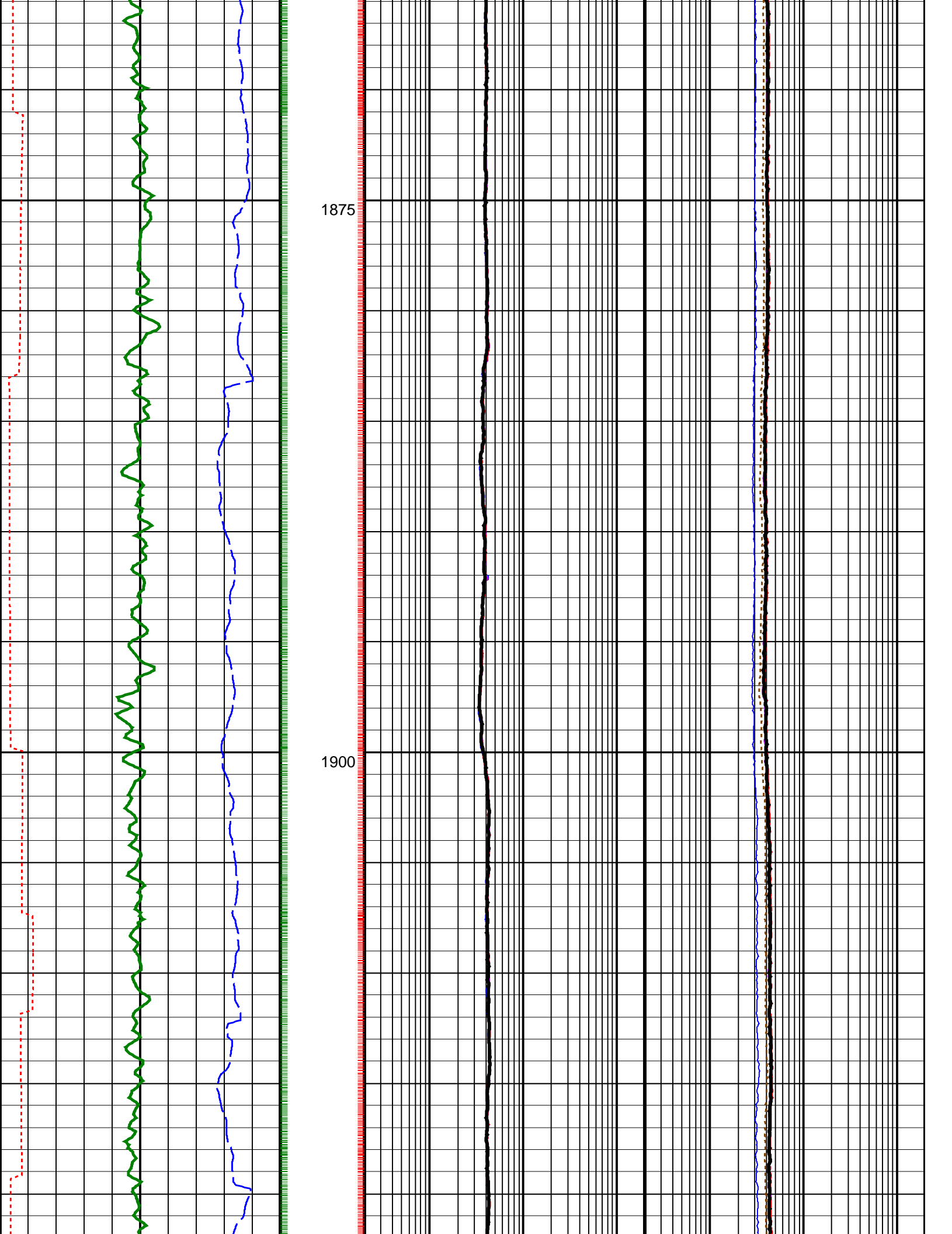


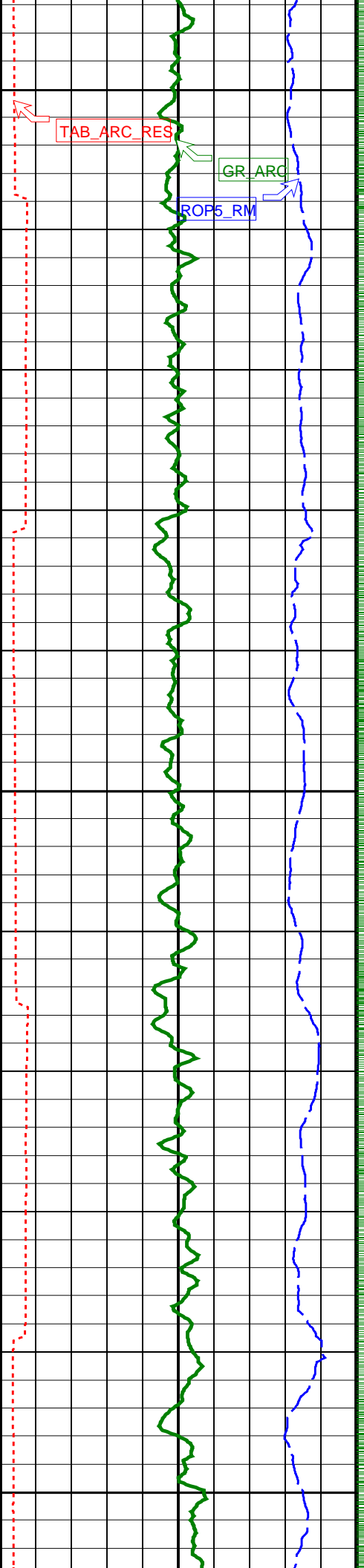


1825

1850



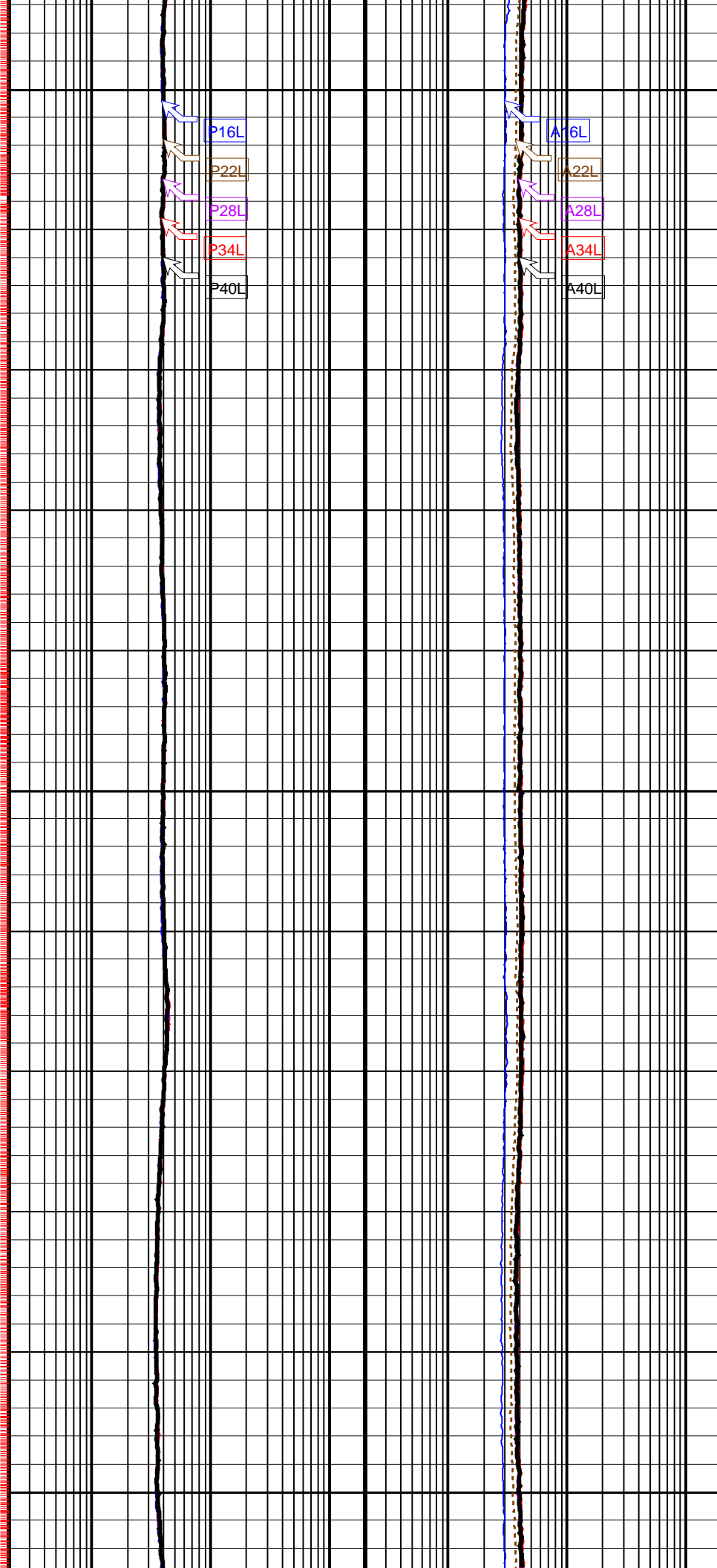


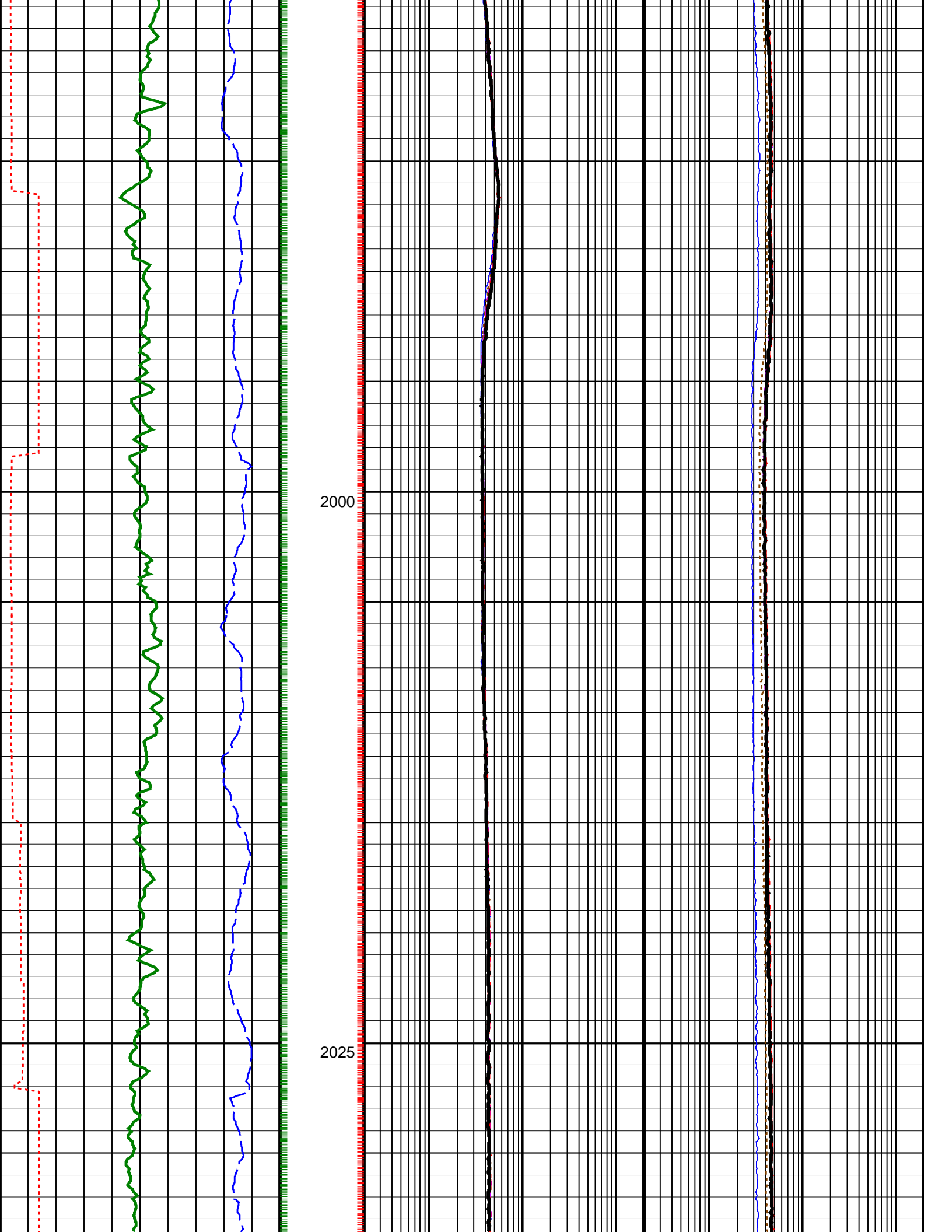


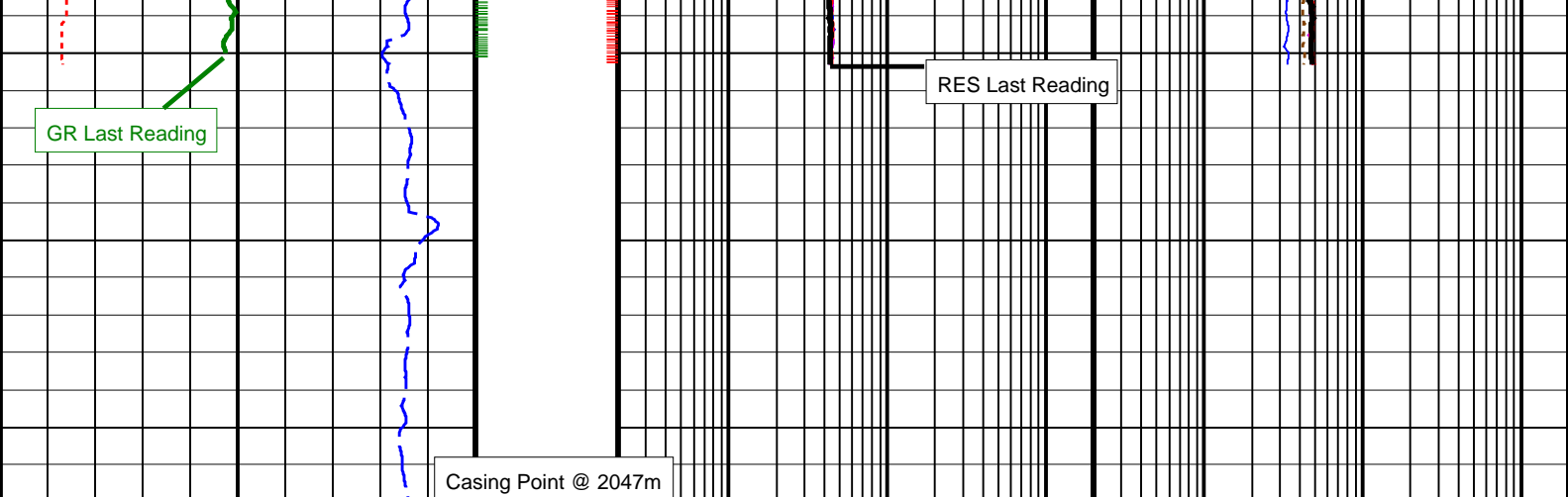
1925

1950

1975







ARC Gamma Ray (GR_ARC) (GAPI)		ARC Phase-Shift Resistivity 16-in. at 400 KHz (P16L)		ARC Attenuation Resistivity 16-in. at 400 KHz (A16L)	
0	200	0.2	200	0.2	200
ARC Resistivity Time After Bit (TAB_ARC_RES) (HR)		ARC Phase-Shift Resistivity 22-in. at 400 KHz (P22L)		ARC Attenuation Resistivity 22-in. at 400 KHz (A22L)	
0	10	0.2	200	0.2	200
Rate of Penetration, Averaged over Last 5ft (ROP5_RM) (M/HR)		ARC Phase-Shift Resistivity 28-in. at 400 KHz (P28L)		ARC Attenuation Resistivity 28-in. at 400 KHz (A28L)	
200	0	0.2	200	0.2	200
		ARC Phase-Shift Resistivity 34-in. at 400 KHz (P34L)		ARC Attenuation Resistivity 34-in. at 400 KHz (A34L)	
		0.2	200	0.2	200
		ARC Phase-Shift Resistivity 40-in. at 400 KHz (P40L)		ARC Attenuation Resistivity 40-in. at 400 KHz (A40L)	
		0.2	200	0.2	200











PIP SUMMARY	
+ ARC Gamma Ray Samples	
+ ARC Resistivity Samples	


IDEAL Version: ID13_OC_11
IDF

8.25-in. Array Resistivity Compensated / Equipment Identification		
Primary Equipment:		
Tool Name and Serial Number	ARC8 – AA	1871
ARC825 Calibration Status	VALID	

Master: 28-Jul-2008 20:41														
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				2.991	Master				-2.875	Master				2.903
	-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				-2.905	Master				2.873	Master				-1.569
	-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				1.403	Master				-1.514	Master				1.425
	-3.900	0.1000	4.100		-3.900	0.1000	4.100		-3.900	0.1000	4.100			

(Minimum)	(Nominal)	(Maximum)	(Minimum)	(Nominal)	(Maximum)
Phase	Phase-Shift T5 at 400KHz		Value		
Master			-1.540		
	-3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)		

Master: 28-Jul-2008 20:41											
8.25-in. Array Resistivity Compensated Calibration											
Resistivity: Air											
Phase	Attenuation T1		Value	Phase	Attenuation T2		Value	Phase	Attenuation T3		Value
Master			8.288	Master			6.362	Master			5.012
	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			4.319	Master			3.602	Master			8.320
	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			5.037	Master			4.302
	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			3.639								
	1.600 (Minimum)	3.600 (Nominal)	5.600 (Maximum)								

Master: 28-Jul-2008 14:35			
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			7.658
	4.960 (Minimum)	7.200 (Nominal)	9.650 (Maximum)

SCHLUMBERGER

Survey report

5-Oct-2008 01:31:21

Page 1 of 2

Client.....: Santos Limited
Field.....: Otway

Well.....: Henry-2DW1
API number.....: 08ASQ0011
Engineer.....: Anagh Kohli

Rig.....: Ocean Patriot
STATE.....: Victoria

Spud date.....: 25-Aug-08
Last survey date.....: 18-Sep-2008
Total accepted surveys...: 17
MD of first survey.....: 1606.72 m
MD of last survey.....: 2047.00 m

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

----- Depth reference -----
Permanent datum.....: MSL
Depth reference.....: Driller's Depth
GL above permanent.....: -67.00 m
KB above permanent.....: 20.80 m
DF above permanent.....: 20.80 m

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

----- Platform reference point-----
Latitude (+N/S-).....: -304.57 m
Departure (+E/W-).....: -304.57 m

Azimuth from Vsect Origin to target: 119.01 degrees

----- Geomagnetic data -----
Magnetic model.....: BGGM version 2008
Magnetic date.....: 25-Sep-2008
Magnetic field strength...: 1216.30 HCNT
Magnetic dec (+E/W-).....: 10.77 degrees
Magnetic dip.....: -69.86 degrees

----- MWD survey Reference Criteria -----
Reference G.....: 1000.07 mGal
Reference H.....: 1216.30 HCNT
Reference Dip.....: -69.86 degrees
Tolerance of G.....: (+/-) 2.50 mGal
Tolerance of H.....: (+/-) 6.00 HCNT
Tolerance of Dip.....: (+/-) 0.45 degrees

----- Corrections -----
Magnetic dec (+E/W-).....: 10.77 degrees
Grid convergence (+E/W-)..: -1.01 degrees
Total az corr (+E/W-).....: 11.78 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

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/ 100f)	Srvy tool type	Tool Corr (deg)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
1	1606.72	41.45	112.42	0.00	1507.50	331.64	-171.57	284.08	331.87	121.13	0.00	TIP	None
2	1632.48	42.47	113.86	25.76	1526.66	348.77	-178.34	299.92	348.93	120.74	1.66	PUP	None
3	1659.21	42.31	111.94	26.73	1546.40	366.69	-185.35	316.51	366.79	120.35	1.49	PUP	None
4	1687.29	44.02	112.28	28.08	1566.88	385.76	-192.58	334.31	385.81	119.94	1.87	PUP	None
5	1715.86	46.85	112.60	28.57	1586.92	405.98	-200.35	353.12	406.00	119.57	3.03	PUP	None
6	1744.82	50.14	111.64	28.96	1606.11	427.51	-208.51	373.21	427.51	119.19	3.54	PUP	None
7	1773.18	53.83	111.56	28.36	1623.58	449.66	-216.74	393.98	449.66	118.82	3.97	PUP	None
8	1802.92	57.48	112.07	29.74	1640.35	474.02	-225.86	416.77	474.04	118.45	3.77	PUP	None
9	1832.14	60.75	112.81	29.22	1655.35	498.93	-235.44	439.95	498.98	118.15	3.47	PUP	None
10	1861.18	64.01	114.45	29.04	1668.81	524.54	-245.75	463.51	524.63	117.93	3.75	PUP	None
11	1889.06	67.45	115.13	27.88	1680.27	549.88	-256.41	486.58	550.01	117.79	3.82	PUP	None
12	1918.99	71.15	114.70	29.93	1690.85	577.80	-268.20	511.97	577.97	117.65	3.79	PUP	None
13	1946.70	75.01	115.29	27.71	1698.91	604.25	-279.40	535.99	604.45	117.53	4.29	PUP	None
14	1975.88	78.74	115.03	29.18	1705.54	632.59	-291.48	561.71	632.84	117.43	3.91	PUP	None
15	2005.06	82.46	115.16	29.18	1710.30	661.31	-303.69	587.78	661.60	117.32	3.89	PUP	None
16	2026.77	82.19	115.78	21.71	1713.20	682.78	-312.94	607.20	683.10	117.27	0.94	PUP	None
17	2047.00	82.15	116.38	20.23	1715.96	702.80	-321.75	625.20	703.14	117.23	0.90	Proj.	To TD

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Company:
Santos Limited

Well:
Henry 2–DW1

Field:
Otway

Rig:
Ocean Patriot

State:
Victoria

Schlumberger

VISION Resistivity 400kHz
1:200 Measured Depth
Recorded Mode Log