

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

Hole size	from	to	Size	Density	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

[illegible]

Type	Mud record		Borehole deviation record			
	from	to	Min	Max	from	to
PETROFREE	336.0 m	1890.0 m	10.15 deg.	89.38 deg.	331.9 m	1873.21 m
BARADRIL-N	1890.0 m	2290.0 m	88.28 deg.	90.14 deg.	1933.88 m	2272.56 m

Surface equipment	Software record
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Unit	OLU-KC0101	IDEAL Wis	ID9_1c_01r		
Depth system	Geograph+GTE	SPM	hspm9_2c_08		
		LWD	V6.4B 01		
		MWD	70C00		

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					

EQUIPMENT DESCRIPTION

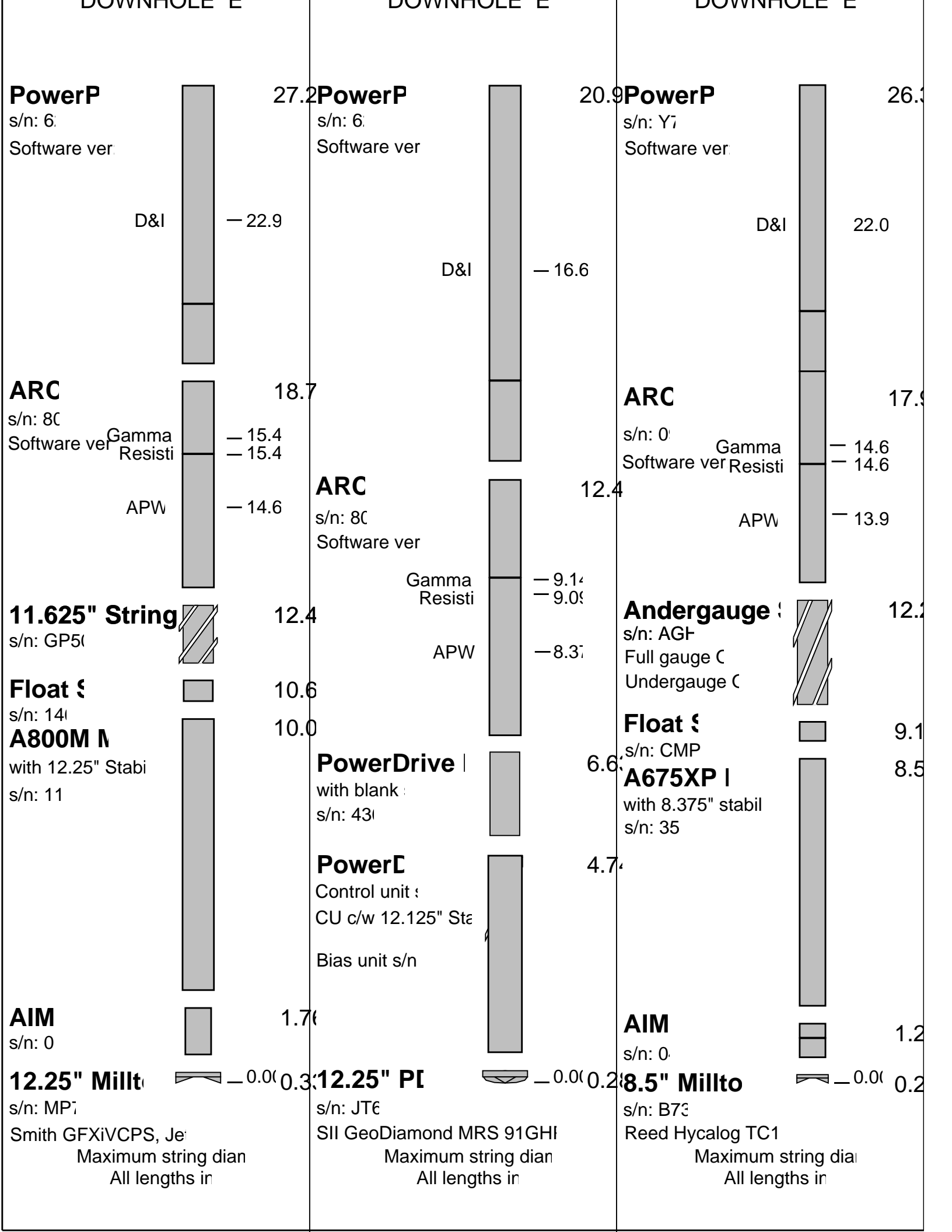
RUN2

RUN3

DOWNHOLE E E

DOWNHOLE E E

DOWNHOLE E F



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 RUN4</p> <p>Directional Surveys</p> <p>APWD (Annular Pressure While Drilling)</p> <p>MVC (Multiple Vibration Chassis)</p>	<p>OTHER SERVICES FOR RUN</p>	<p>OTHER SERVICES FOR RUN</p>
<p>REMARKS: RUN NUMBER 4</p> <p>ARC Gamma Ray measurements are corrected for mud weight, tool size, bit size and for Potassium content in the mud.</p> <p>ARC Resistivity measurements are borehole compensated and environmentally corrected.</p> <p>POOH: Baleen-4 TD.</p>	<p>REMARKS: REPEAT SECTION</p> <p>Repeat Section data obtained whilst tripping out of hole, with no control on ROP. Repeat section was unofficial thus data density is sparse.</p>	<p>REMARKS: RUN NUMBER</p>

[illegible]

PowerP
s/n: Y7
Software ver: 1.0

DOWNHOLE E

Category	Value
RUN4	20.8
RUN	16.5
RUN	16.5

D&I

ARC

s/n: 0

Software ver

Gamma Resist

APW

12.4

9.14

9.06

8.36

Anderg

s/n: AG

Full gauge C

Undergauge C

6.70

NM Pony Dr

s/n: DOTS

3.62

8.4375" NB S

s/n: DOTS

2.00

8.5" Inse

s/n: W4

Hughes MXS2OD

Maximum string dia

All lengths in

0.24

Run 1Run 2Run 3Run 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"

Parameters

DLIS Name

Description

Value

DO

Depth Offset

0.0 m

PIP SUMMARY

└ ARC Gamma Ray Samples

└ ARC Resistivity Samples

ARC Resistivity Time After Bit
(TAB_ARC_RES)

0 (HR) 10

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

200 (M/HR) 0

True vertical Depth (TVDE)

720 (M) 705

ARC Gamma Ray (GR_ARC)

0 (GAPI) 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

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

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
34-in. at 2 MHz (P34H)

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
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 Phase-Shift Resistivity
16-in. at 2 MHz (P16H)

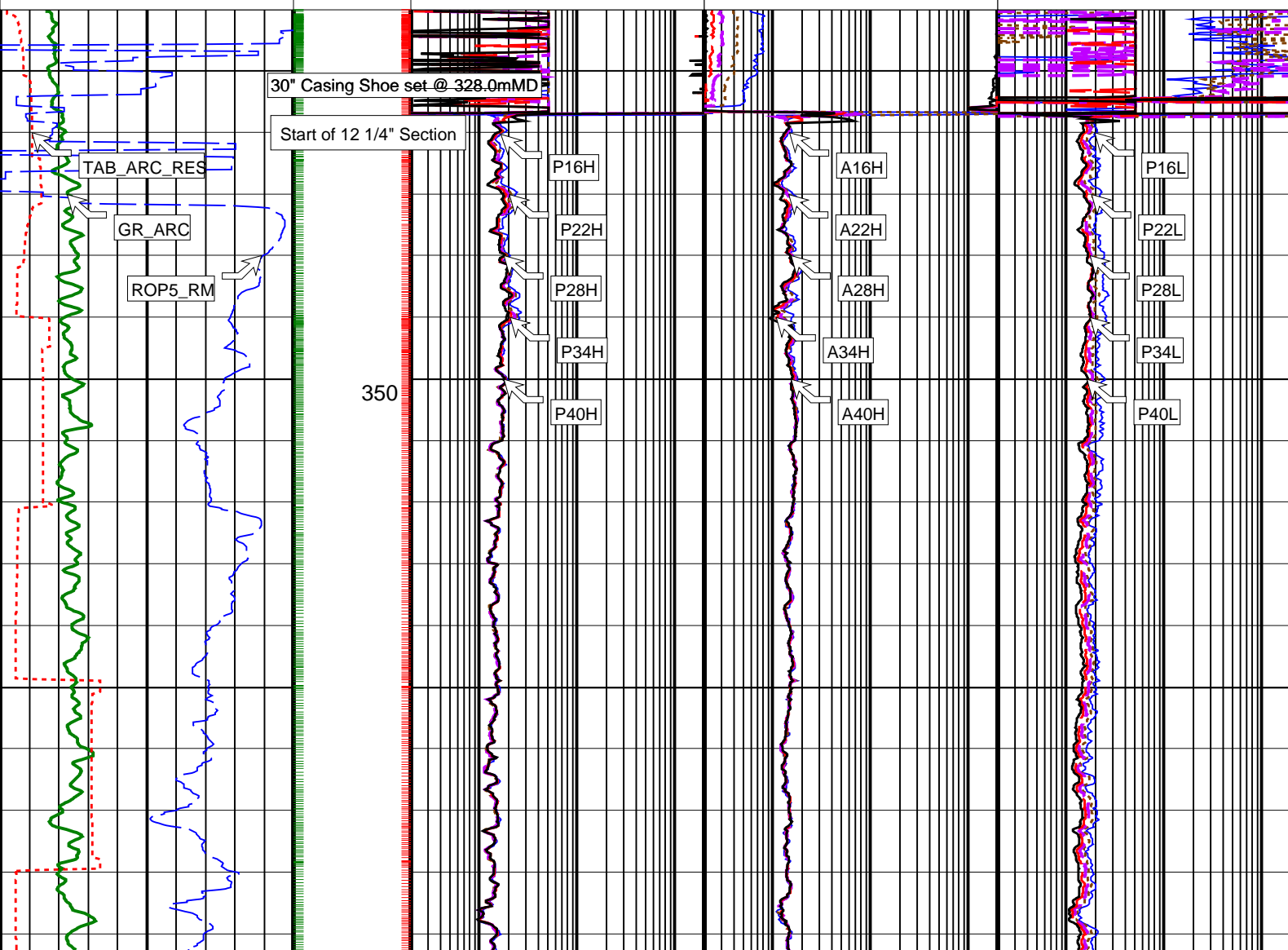
0.2 (OHMM) 200

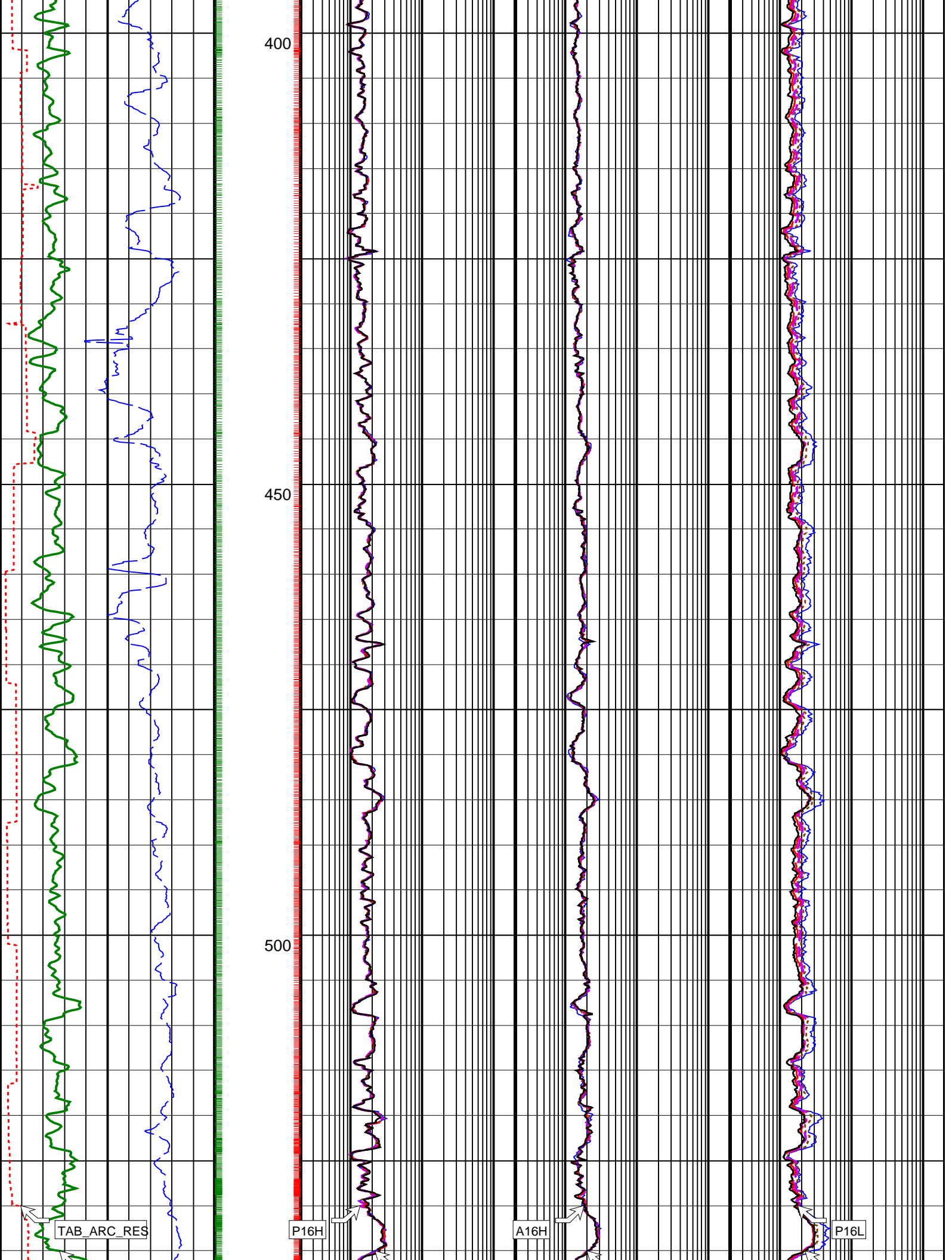
ARC Attenuation Resistivity
16-in. at 2 MHz (A16H)

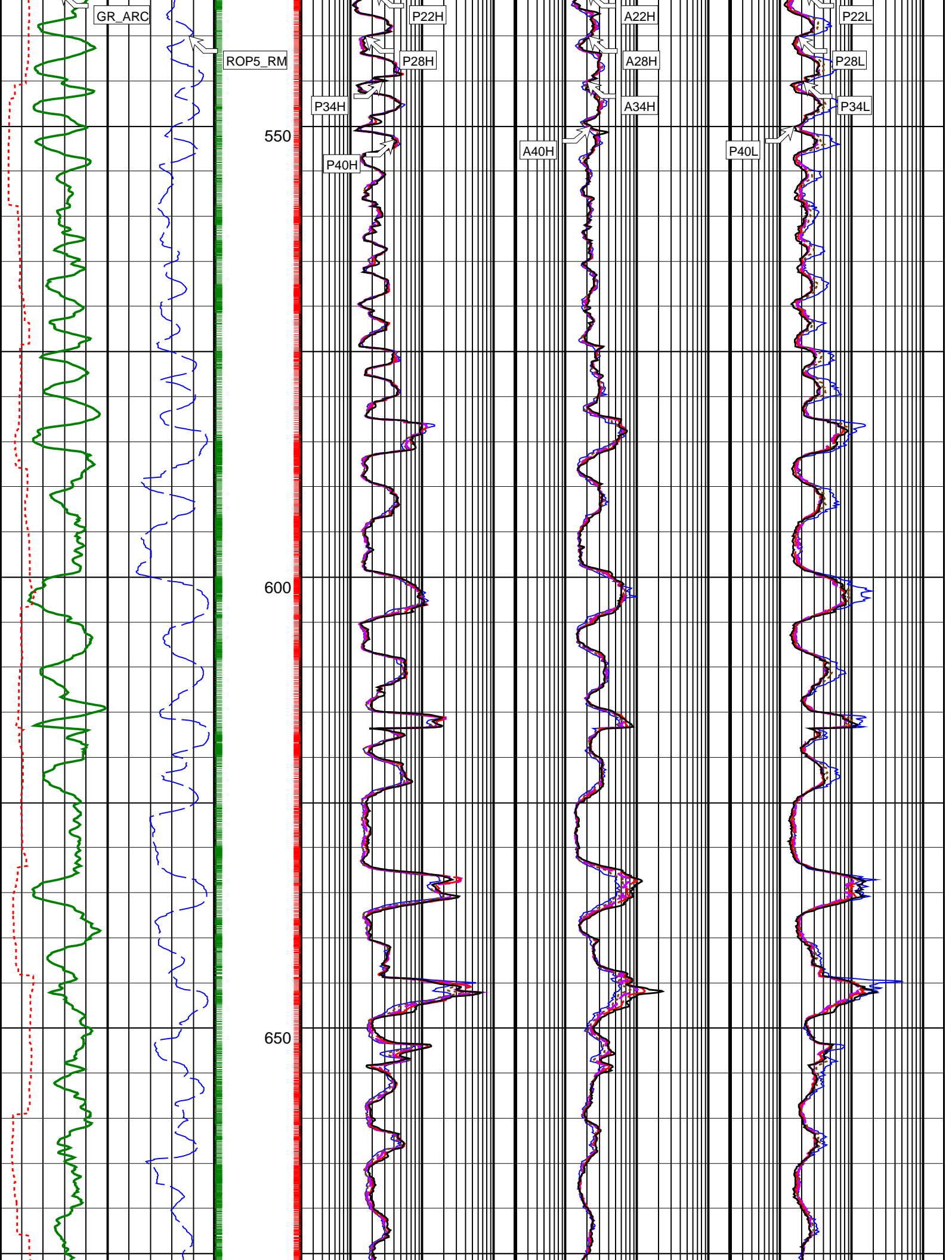
0.2 (OHMM) 200

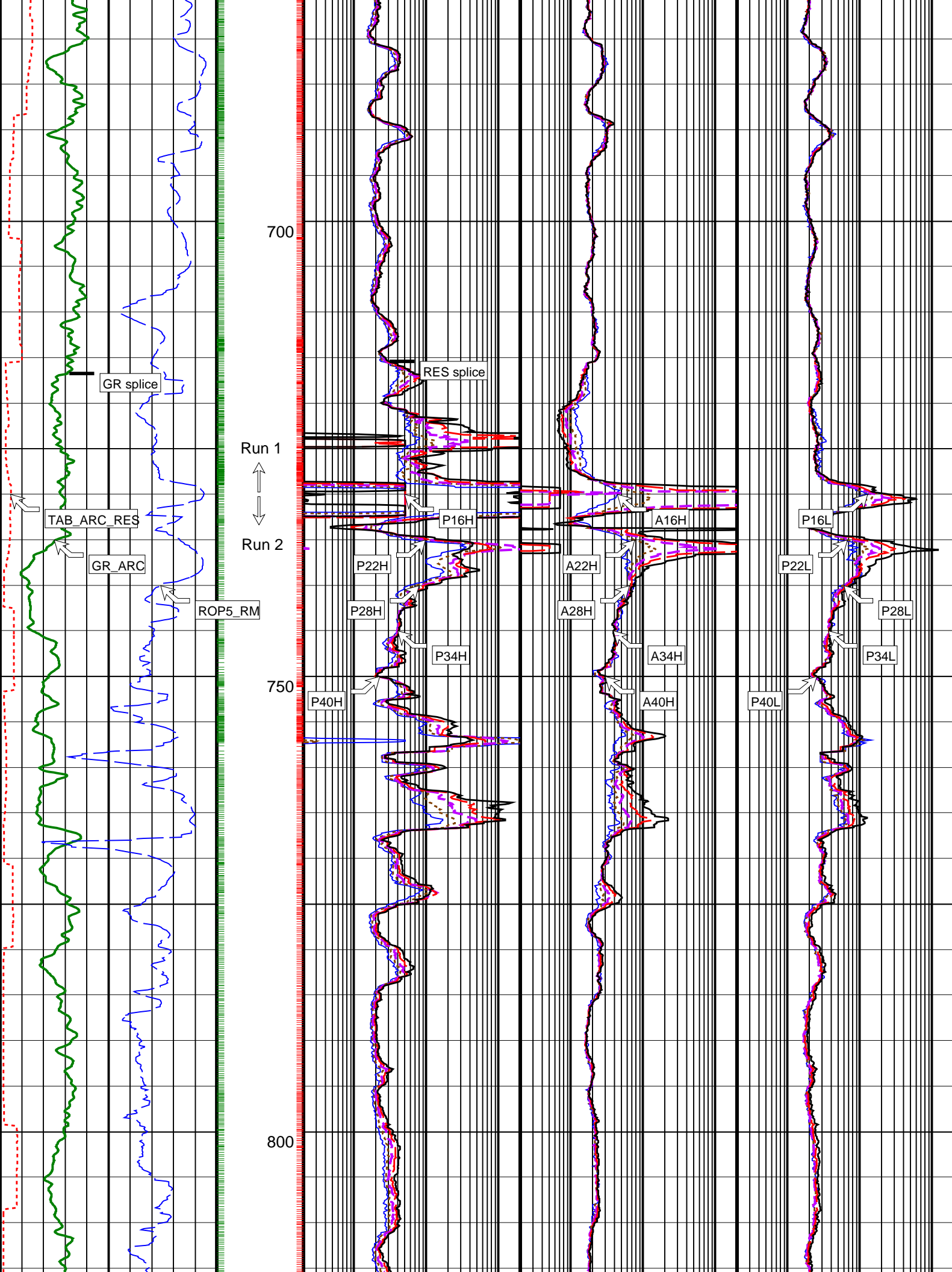
ARC Phase-Shift Resistivity
16-in. at 400 KHz (P16L)

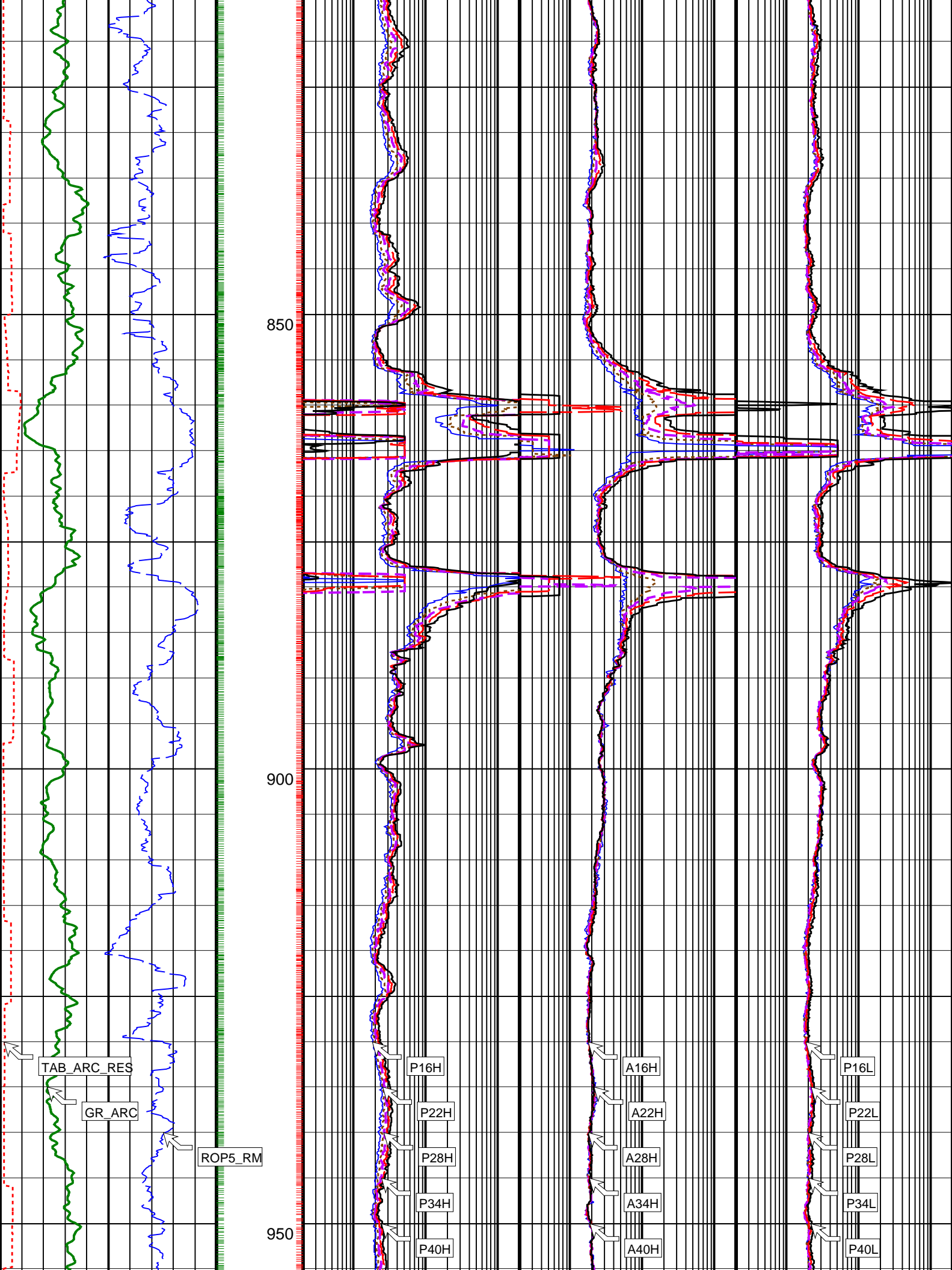
0.2 (OHMM) 200

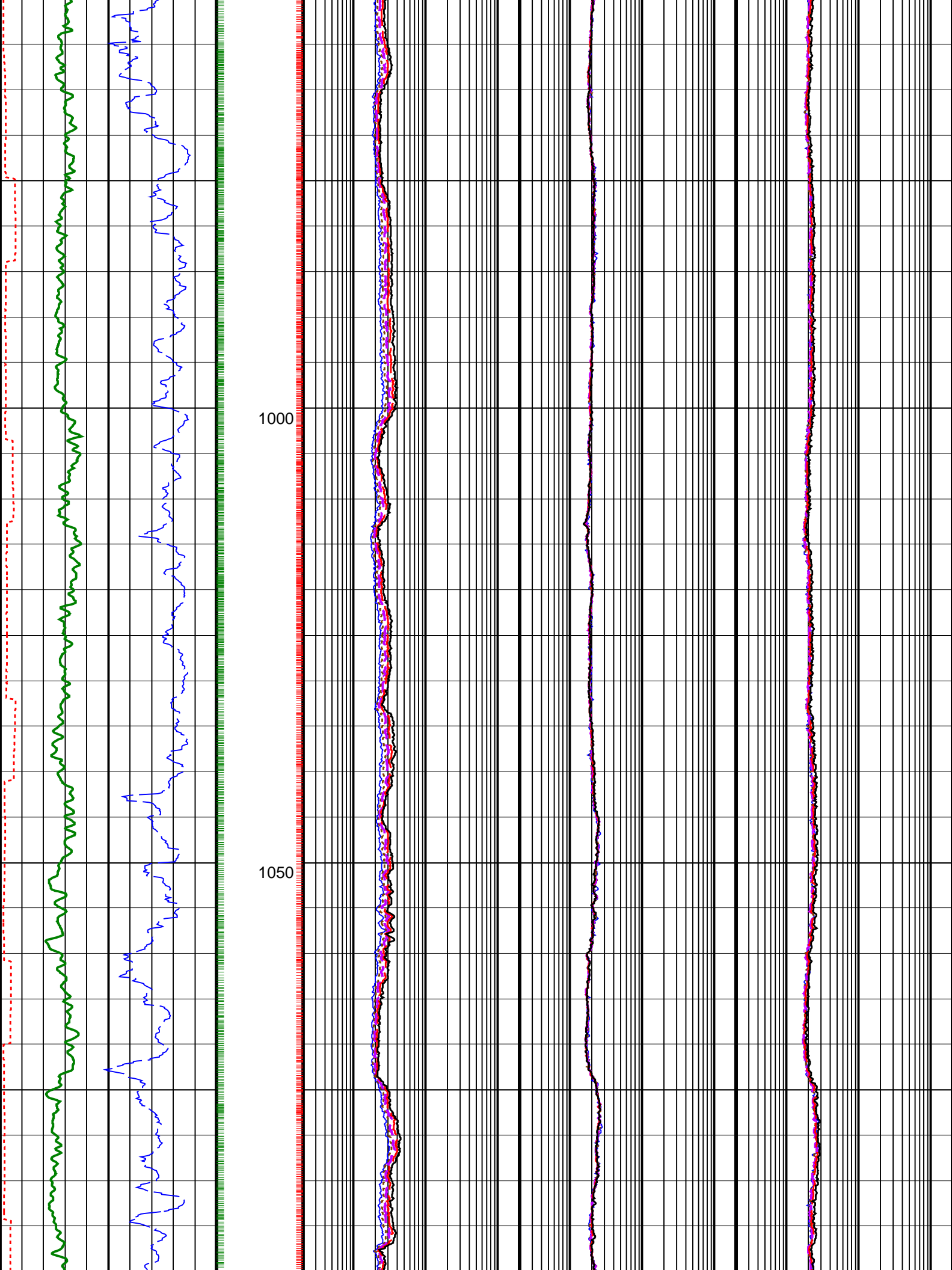


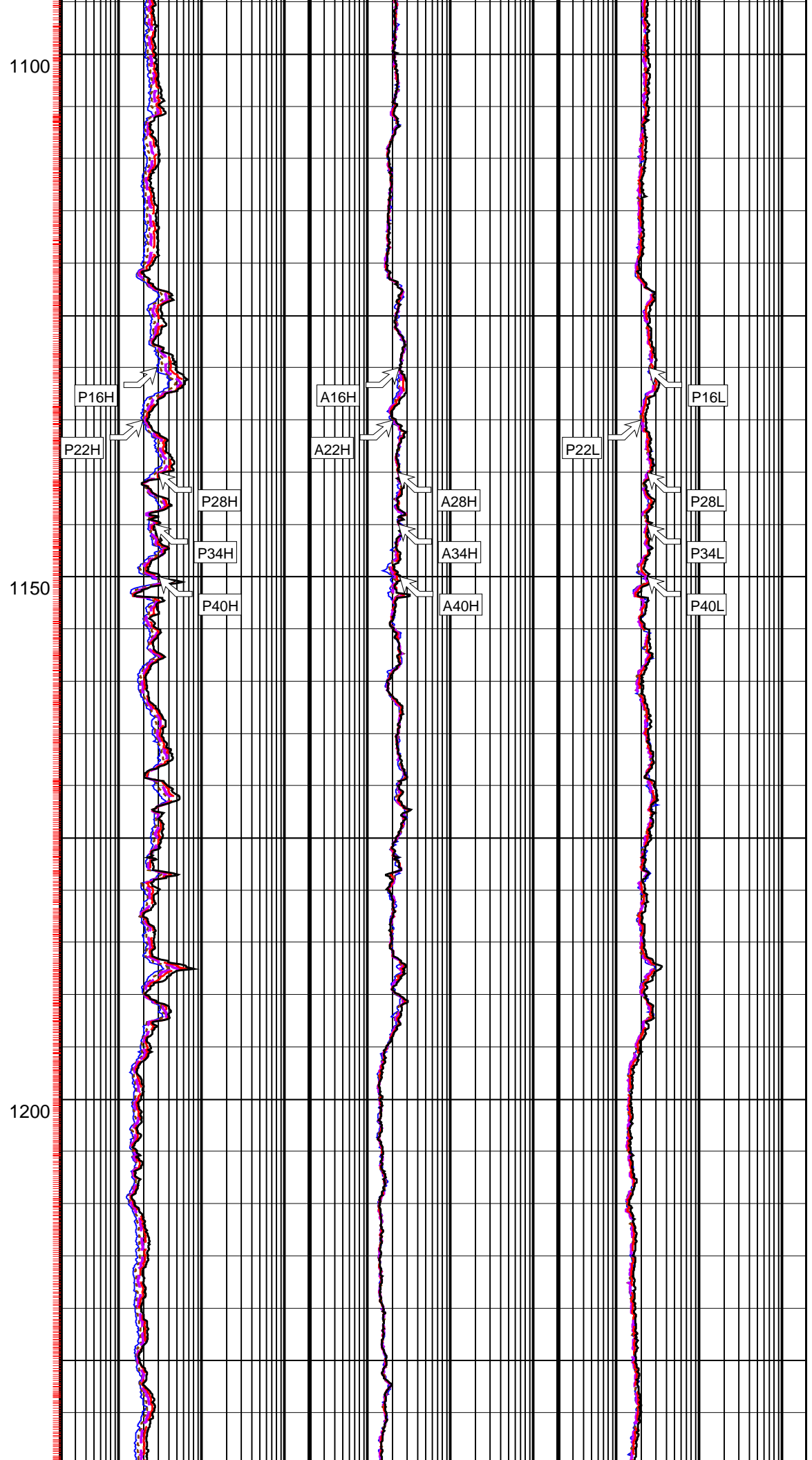
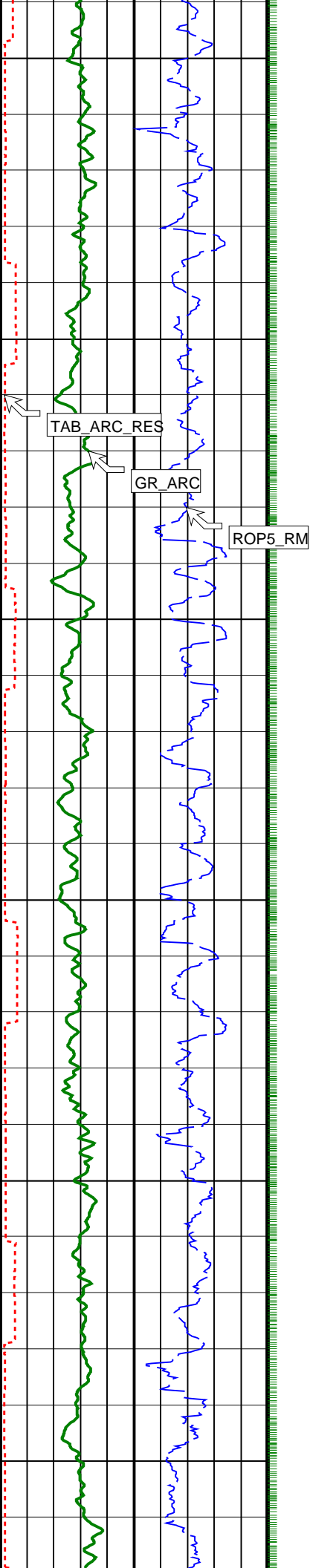


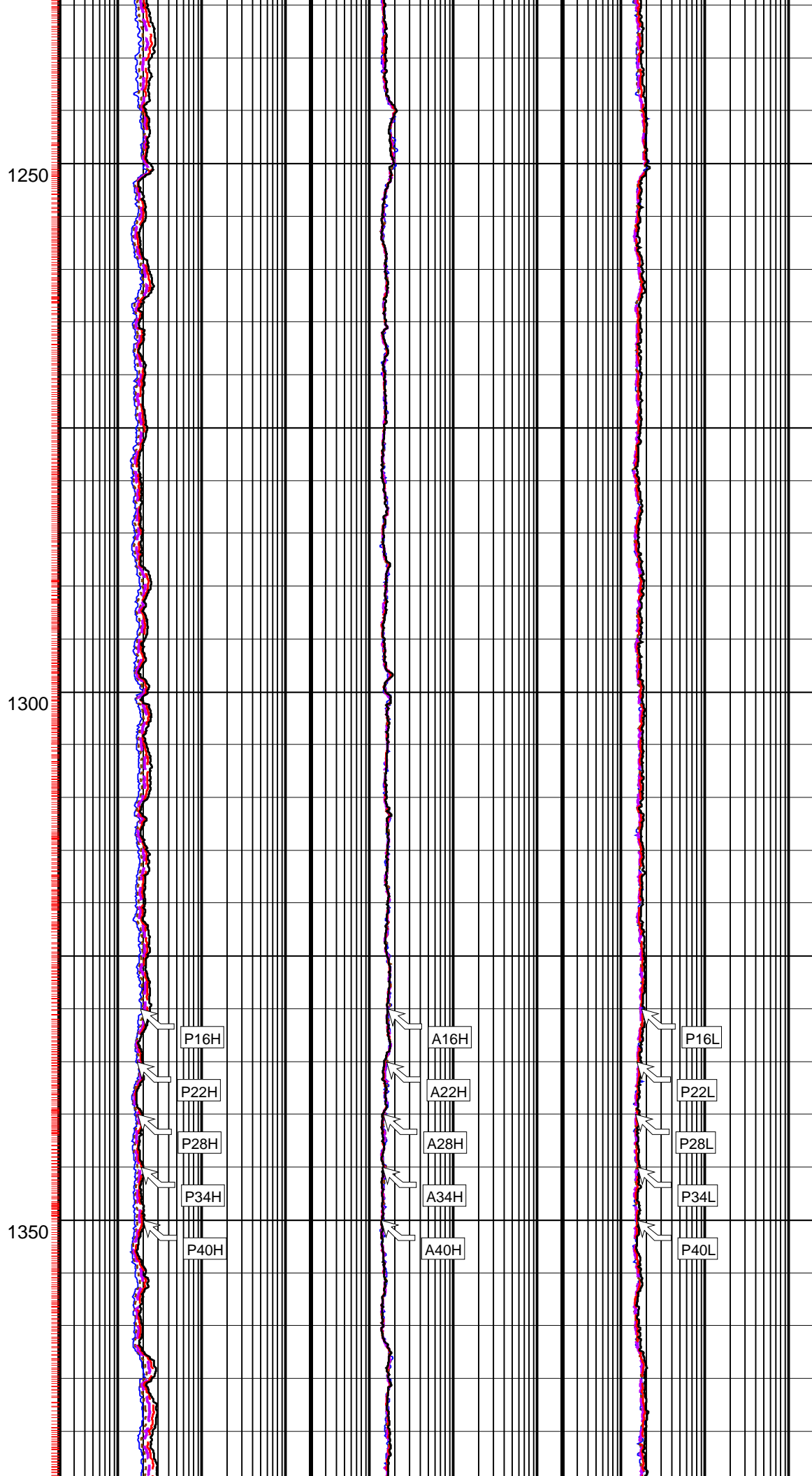
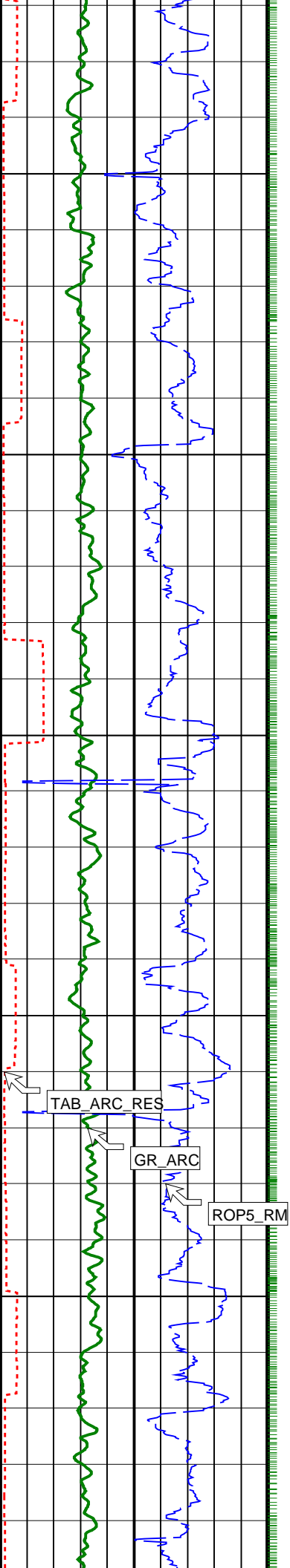


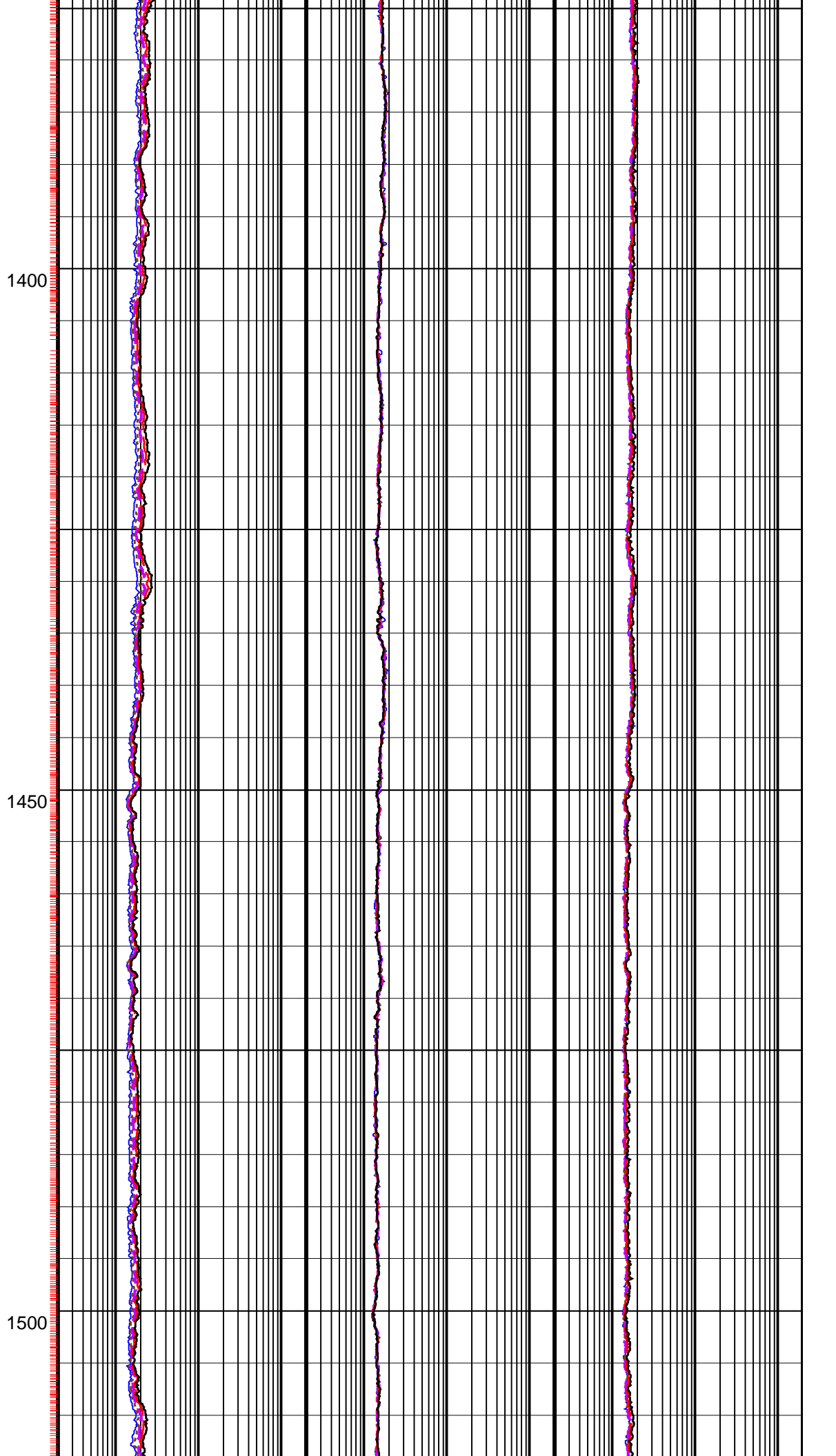
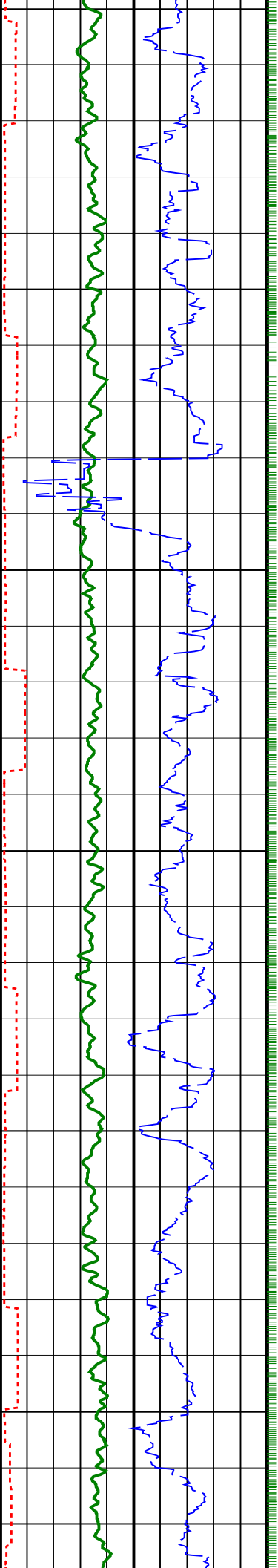


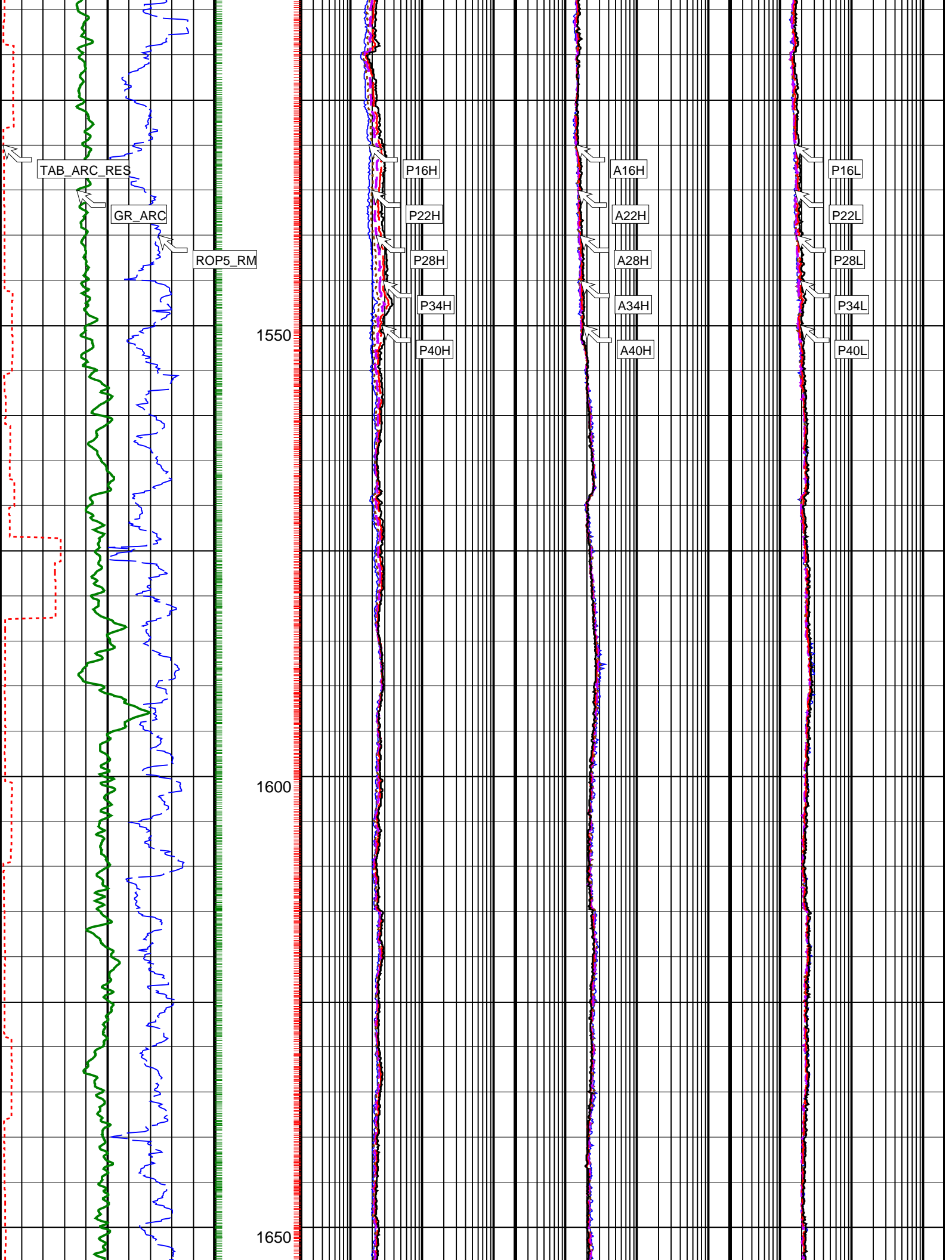


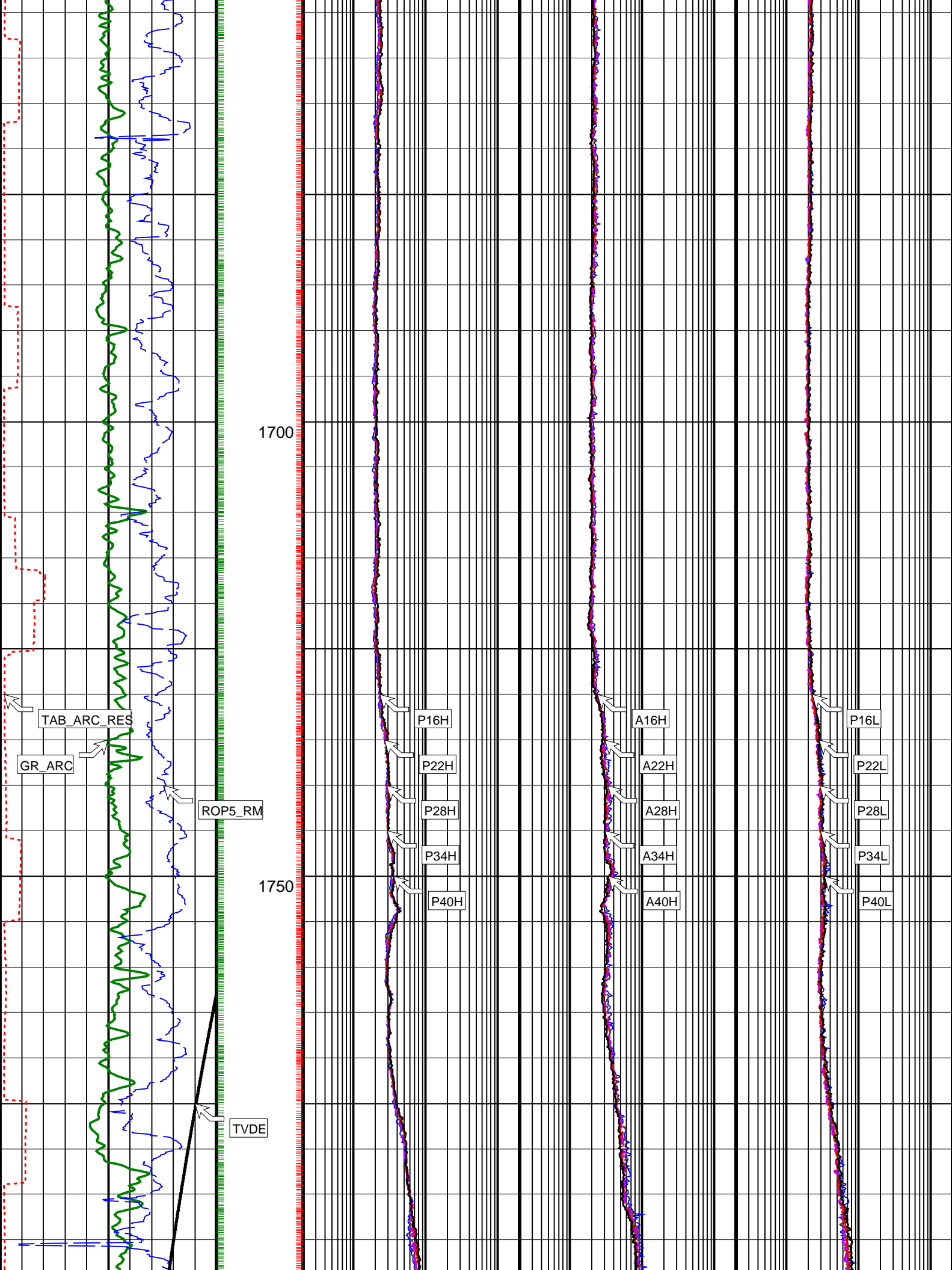


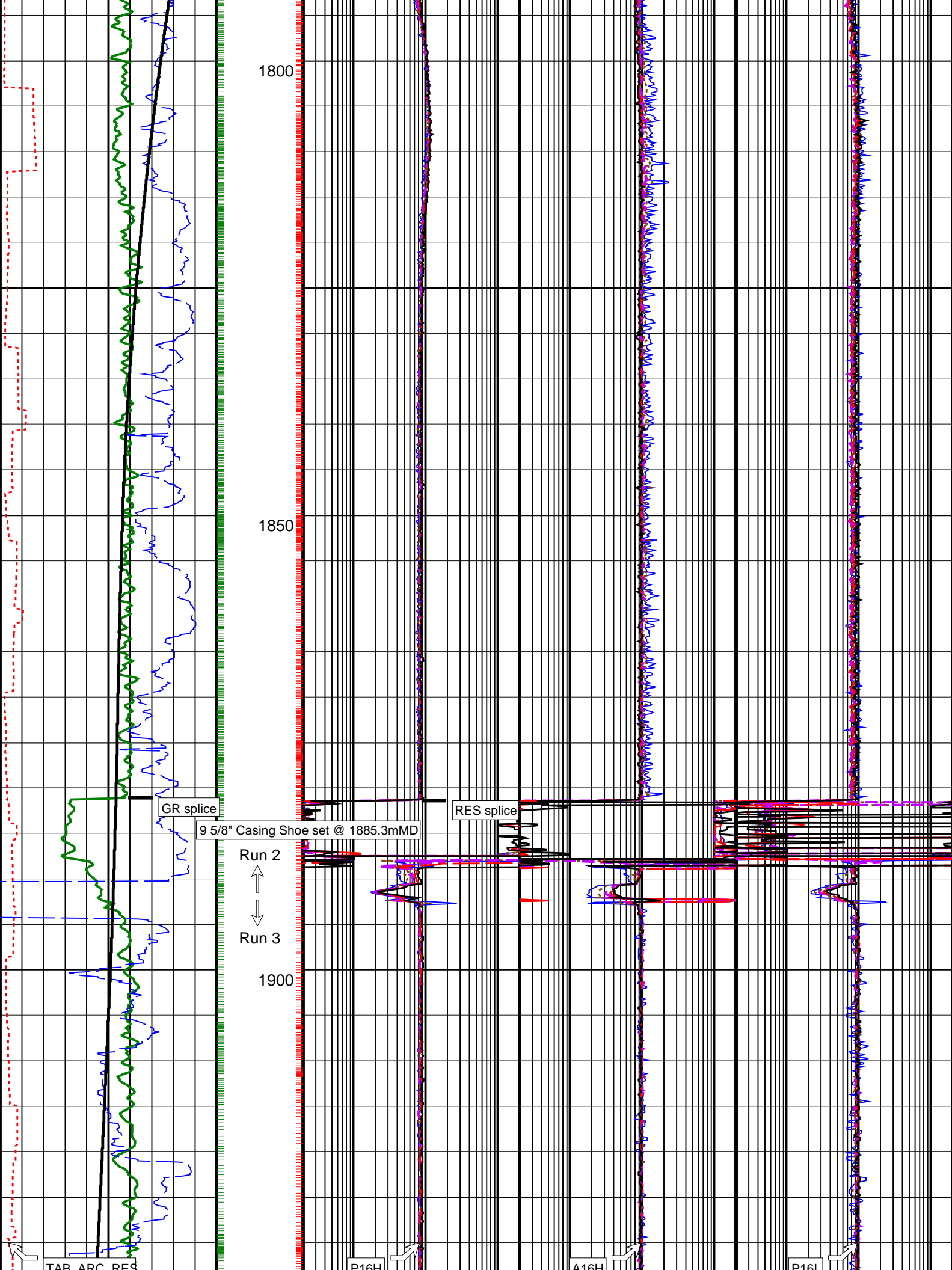


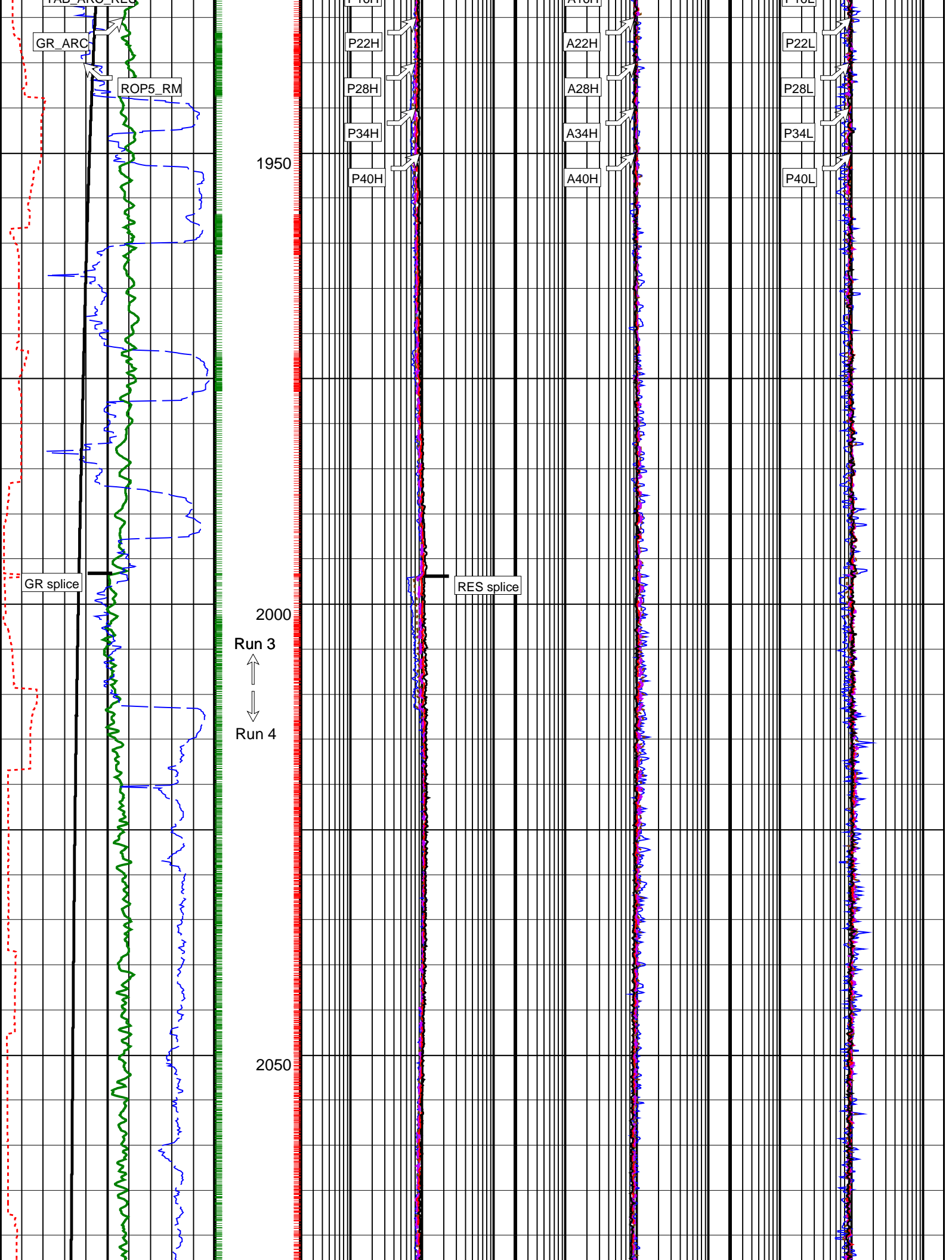


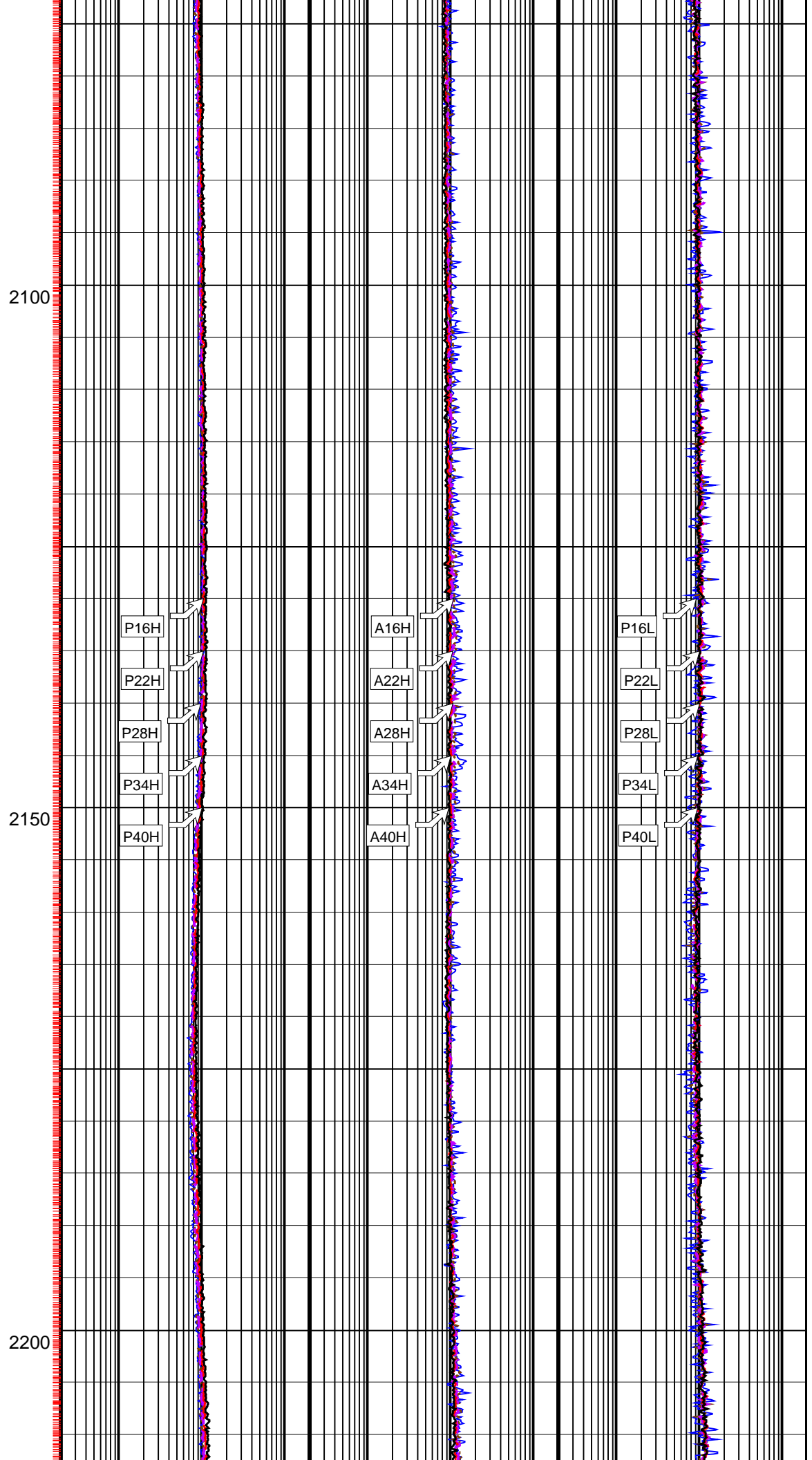
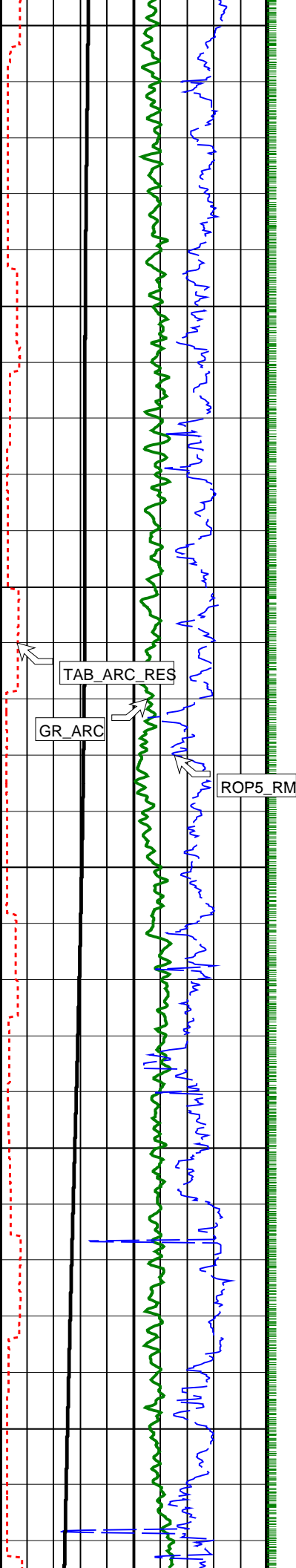


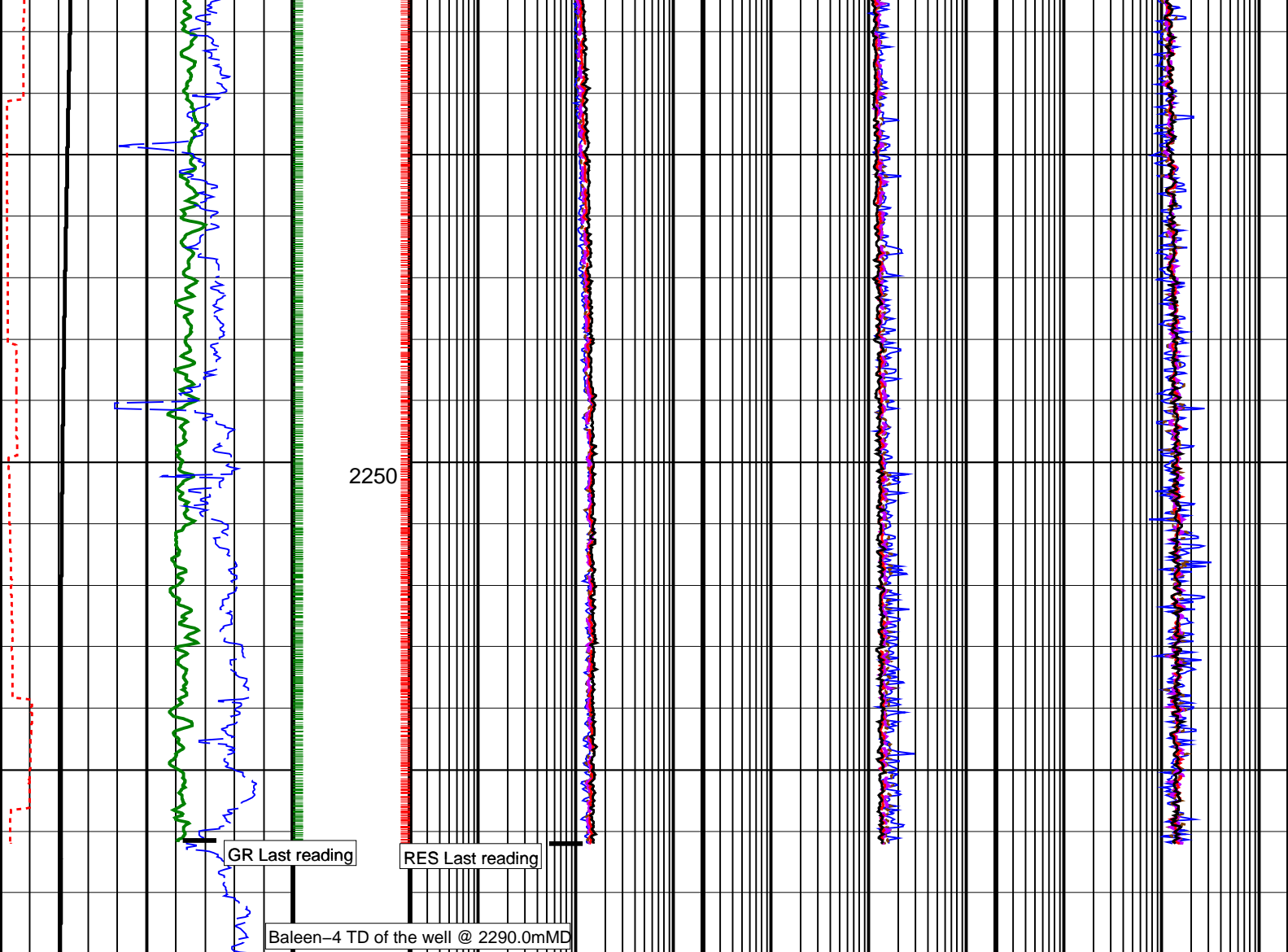












ARC Gamma Ray (GR_ARC) (GAPI)	200	ARC Phase-Shift Resistivity 16-in. at 2 MHz (P16H)		ARC Attenuation Resistivity 16-in. at 2 MHz (A16H)		ARC Phase-Shift Resistivity 16-in. at 400 KHz (P16L)	
		0.2	(OHMM)	200	0.2	(OHMM)	200
True vertical Depth (TVDE) (M)	705	ARC Phase-Shift Resistivity 22-in. at 2 MHz (P22H)		ARC Attenuation Resistivity 22-in. at 2 MHz (A22H)		ARC Phase-Shift Resistivity 22-in. at 400 KHz (P22L)	
		0.2	(OHMM)	200	0.2	(OHMM)	200
Rate of Penetration, Averaged over Last 5ft (ROP5_RM)	0	ARC Phase-Shift Resistivity 34-in. at 2 MHz (P34H)		ARC Attenuation Resistivity 28-in. at 2 MHz (A28H)		ARC Phase-Shift Resistivity 28-in. at 400 KHz (P28L)	
		200	(M/HR)	0	0.2	(OHMM)	200
ARC Resistivity Time After Bit (TAB_ARC_RES)	10	ARC Phase-Shift Resistivity 28-in. at 2 MHz (P28H)		ARC Attenuation Resistivity 34-in. at 2 MHz (A34H)		ARC Phase-Shift Resistivity 34-in. at 400 KHz (P34L)	
		0	(HR)	10	0.2	(OHMM)	200
		ARC Phase-Shift Resistivity 40-in. at 2 MHz (P40H)		ARC Attenuation Resistivity 40-in. at 2 MHz (A40H)		ARC Phase-Shift Resistivity 40-in. at 400 KHz (P40L)	
		0.2	(OHMM)	200	0.2	(OHMM)	200

PIP SUMMARY

- ARC Gamma Ray Samples
- ARC Resistivity Samples

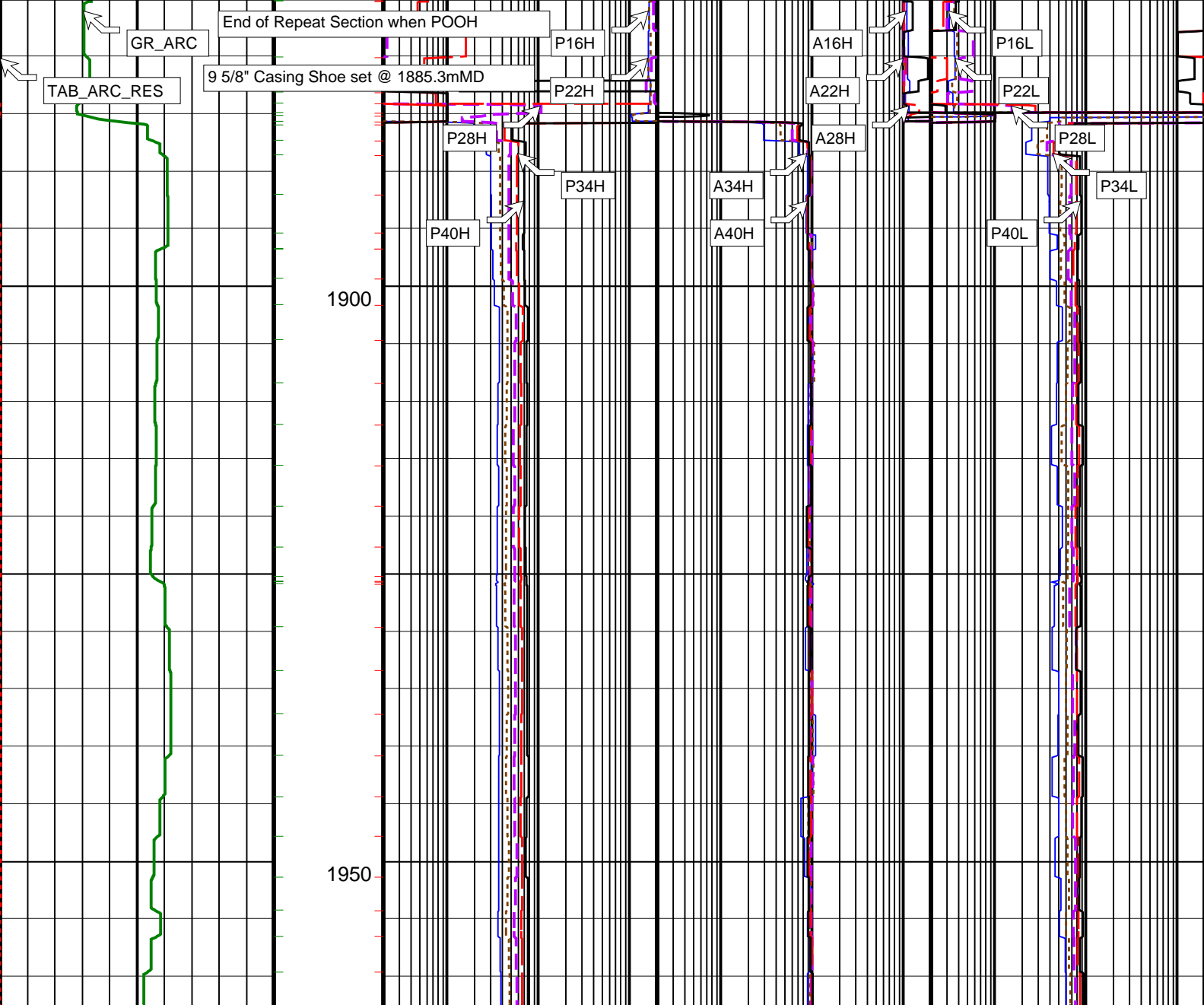
IDEAL Version: ID9_1C_01
IDF

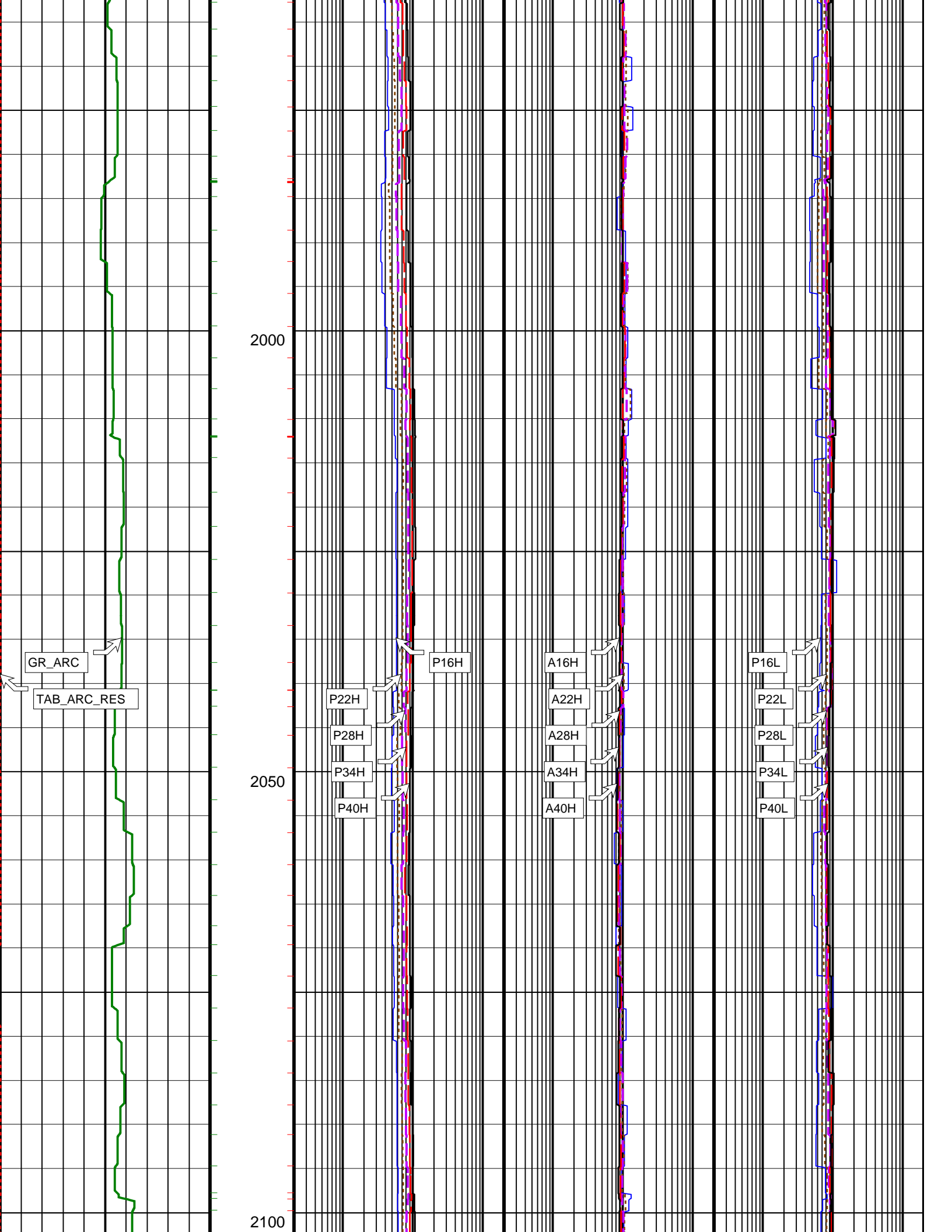
Repeat Section whilst Tripping Out of Hole

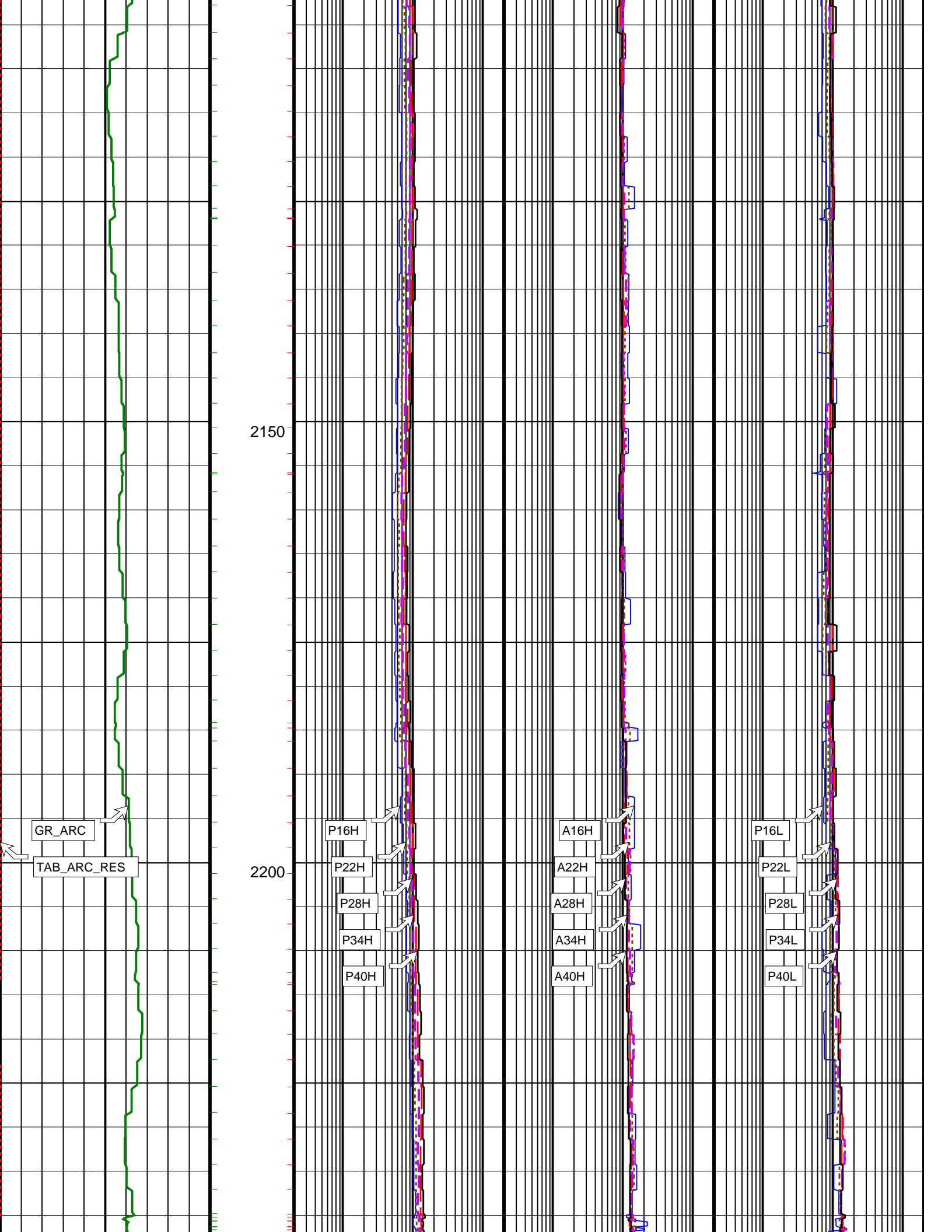
PIP SUMMARY

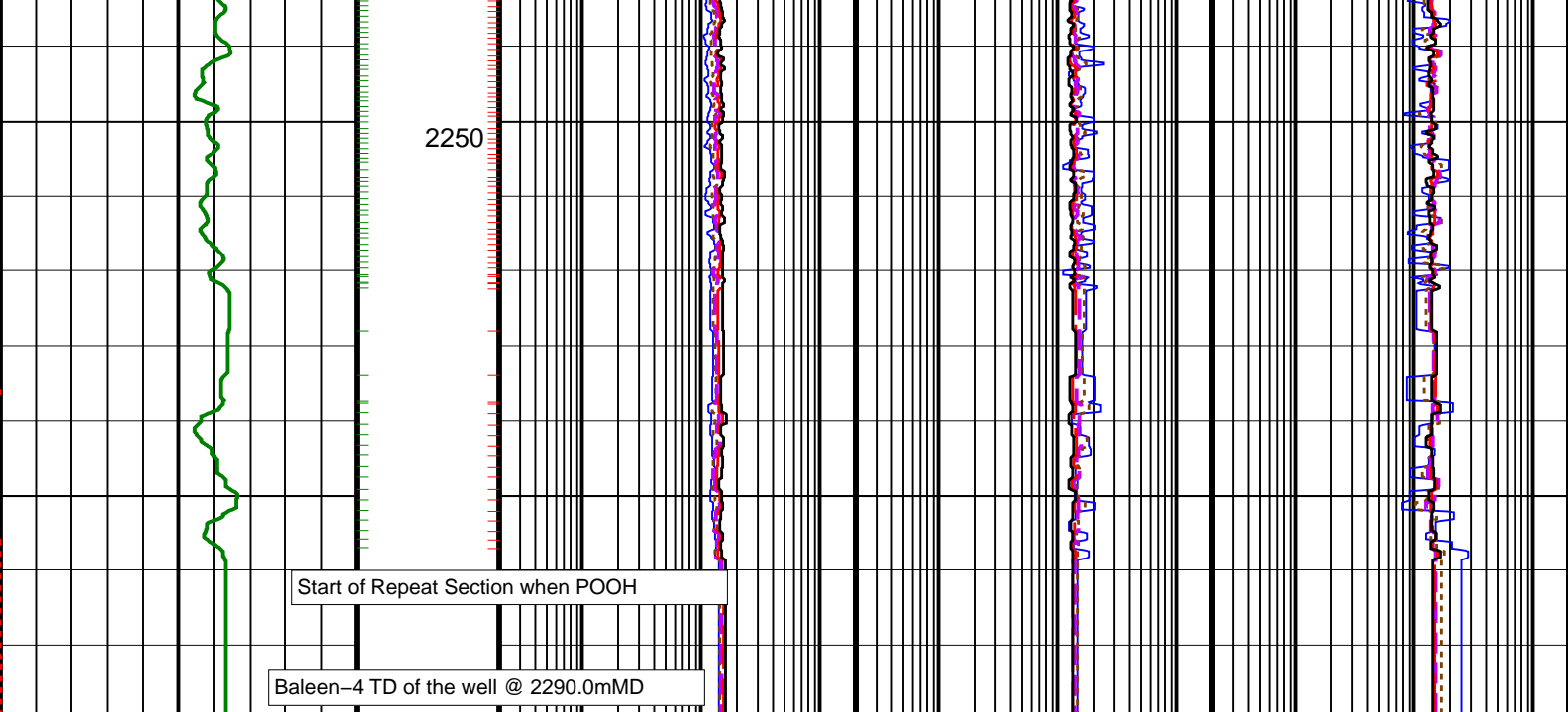
- ARC Gamma Ray Samples
- ARC Resistivity Samples

	ARC Phase-Shift Resistivity 28-in. at 2 MHz (P28H) 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
	ARC Phase-Shift Resistivity 40-in. at 2 MHz (P40H) 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 34-in. at 2 MHz (P34H) 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 Resistivity Time After Bit (TAB_ARC_RES) 0 (HR) 10	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 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












<div>ARC Gamma Ray (GR_ARC) (GAPI)</div> <div>ARC Resistivity Time After Bit (TAB_ARC_RES) (HR)</div>	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
	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 Phase-Shift Resistivity 34-in. at 2 MHz (P34H) 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 40-in. at 2 MHz (P40H) 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 28-in. at 2 MHz (P28H) 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

PIP SUMMARY			
└ ARC Gamma Ray Samples			
└ ARC Resistivity Samples			

IDEAL Version: ID9_1C_01
IDF

8.25-in. Array Resistivity Compensated / Equipment Identification			
Primary Equipment:		ARC8 – AA 8019	
Tool Name and Serial Number		-	
ARC825 Calibration Status			

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	<div><div></div></div>	-0.4304	Master	<div><div></div></div>	-0.02064	Master	<div><div></div></div>	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	<div><div></div></div>	-1.325	Master	<div><div></div></div>	1.616	Master	<div><div></div></div>	-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	<div><div></div></div>	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						ARC8 – AA		8026			
ARC825 Calibration Status						–					

Master: 24-Sep-2004 4:00											
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)		

Master: 21-Sep-2004 3:35	6.75-in. Array Resistivity Compensated Calibration
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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.....: BGGM 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 Magnetic dec (+E/W-).....: 13.16 degrees
Departure (+E/W-).....: 0.00 m Grid convergence (+E/W-).....: -0.89 degrees
Total az corr (+E/W-).....: 14.05 degrees
Azimuth from Vsect Origin to target: 236.54 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

[(c)2004 IDEAL ID9_1C_01]
SCHLUMBERGER Survey Report

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Seq Measured Incl Azimuth Course TVD Vertical Displ Displ Total At DLS Srvy Tool
# depth angle length depth section +N/S- +E/W- displ Azim (deg/ tool Corr
- (m) (deg) (deg) (m) (m) (m) (m) (m) (deg) 10m) type (deg)
=====

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1	0.00	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 1:500 Measured Depth Recorded Memory Data		

