



Type		KCl/Polymer	KCl/Polymer	KCl/Polymer						
Mud weight	sg	1.16	1.12	1.12						
Solids	% vol	5.6	5.2	5.2						
Chlorides	mg/l	31,500	32,500	31,500						
Rm	ohm.m@degC	0.111@23	0.125@23	0.126@22						
Rmf	ohm.m@degC	0.096@23	0.108@23	0.109@22						
Rmc	ohm.m@degC	0.074@23	0.165@23	0.103@22						
Potassium	ppb	23.5	21.8	21.8						
<b>Environmental data</b>										
<b>GR</b>										
Mud weight	sg	1.16	1.12	1.12						
Bit size	inch	8.5	8.5	8.5						
<b>Resistivity</b>										
<b>Neutron porosity</b>										
Hole Size	inch	8.5	8.5	8.5						
Mud weight	sg	1.16	1.12	1.12						
Temperature	degC	83	87	97						
Mud salinity	n/a	n/a	n/a	n/a						
Formation salinity	n/a	n/a	n/a	n/a						
Recording rate 1	SEC	10 sec	ARC_RES							
Recording rate 2	SEC	10 sec	ARC_GR							
Filtering GR		n/a	n/a							
Filtering density		n/a	n/a							
Filtering Neutron		n/a	n/a							
Company representative		D. Bell	M. Jackson	S. Douglas	G. Weste	C. Menhennitt				
Anadrill personnel		A. Abad	M. Saicic							

**DISCLAIMER**

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

<p>OTHER SERVICES FOR RUN5</p> <p>MWD</p> <p>Powerpak Motor</p>	<p>OTHER SERVICES FOR RUN6</p> <p>MWD</p>	<p>OTHER SERVICES FOR RUN7</p> <p>MWD</p>
<p>REMARKS: RUN NUMBER 5</p> <p>Rotary Drilled from: 2706 m to 2856 m</p> <p>Depth Logged from: 2700 m to 2843 m</p> <p>ARC GR is corrected for bit size and mud weight.</p> <p>ARC Resisitivity is borehole compensted but not environmentally corrected.</p> <p>Reaming operation performed on the way to bottom to log rat hole from 2700 m to 2710m.</p> <p>All recorded memory data was dumped from the tool and processed.</p> <p>POOH due to slow ROP.</p>	<p>REMARKS: RUN NUMBER 6</p> <p>Rotary Drilled from: 2856 m to 3102 m</p> <p>Depth Logged from: 2843 m to 3097 m</p> <p>ARC GR is corrected for bit size and mud weight.</p> <p>ARC Resisitivity is borehole compensted but not environmentally corrected.</p> <p>Reaming operation performed on the way to bottom to log depth interval when motor was laid down.</p> <p>Ream down started from 2835 m to 2856 m.</p> <p>Logging speed at 50 m/hr.</p> <p>All recorded memory data was dumped from the tool and processed.</p> <p>POOH for a bit trip.</p>	<p>REMARKS: RUN NUMBER 7</p> <p>Rotary Drilled from: 3102 m to 3345 m</p> <p>Depth Logged from: 3097 m to 3340 m</p> <p>ARC GR is corrected for bit size and mud weight.</p> <p>ARC Resisitivity is borehole compensted but not environmentally corrected.</p> <p>All recorded memory data was dumped from the tool and processed.</p> <p>This run resulted to TD of the well.</p>

# EQUIPMENT DESCRIPTION

RUN5

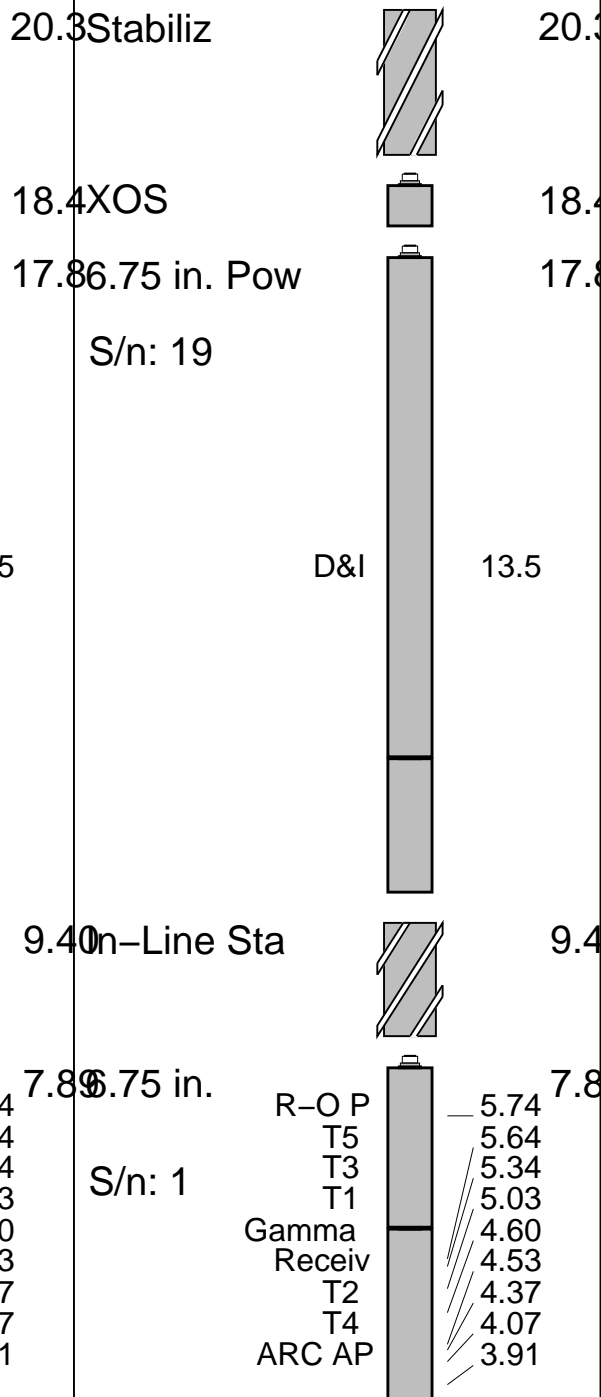
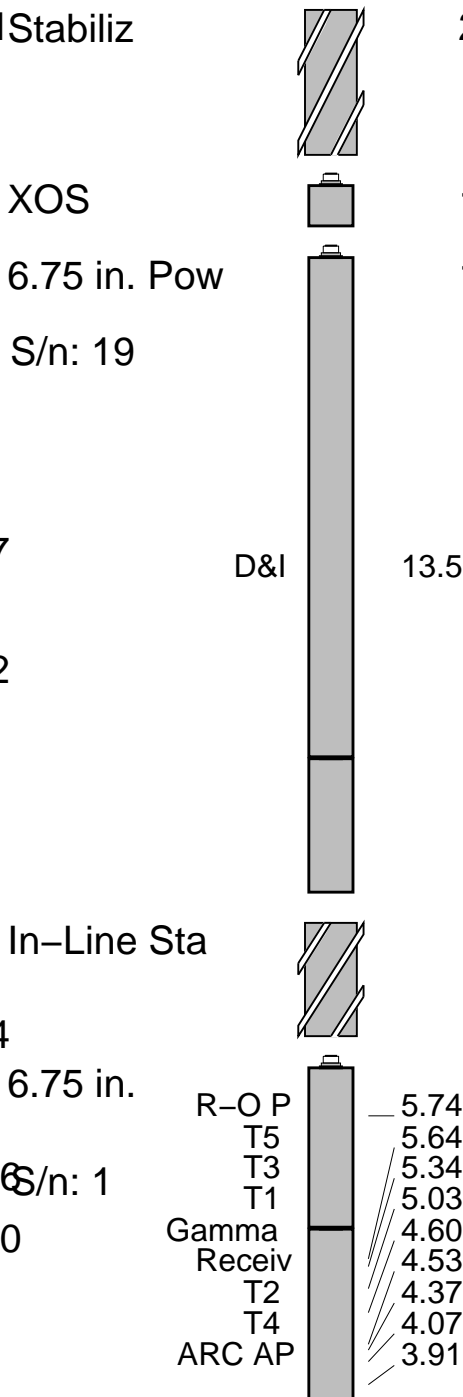
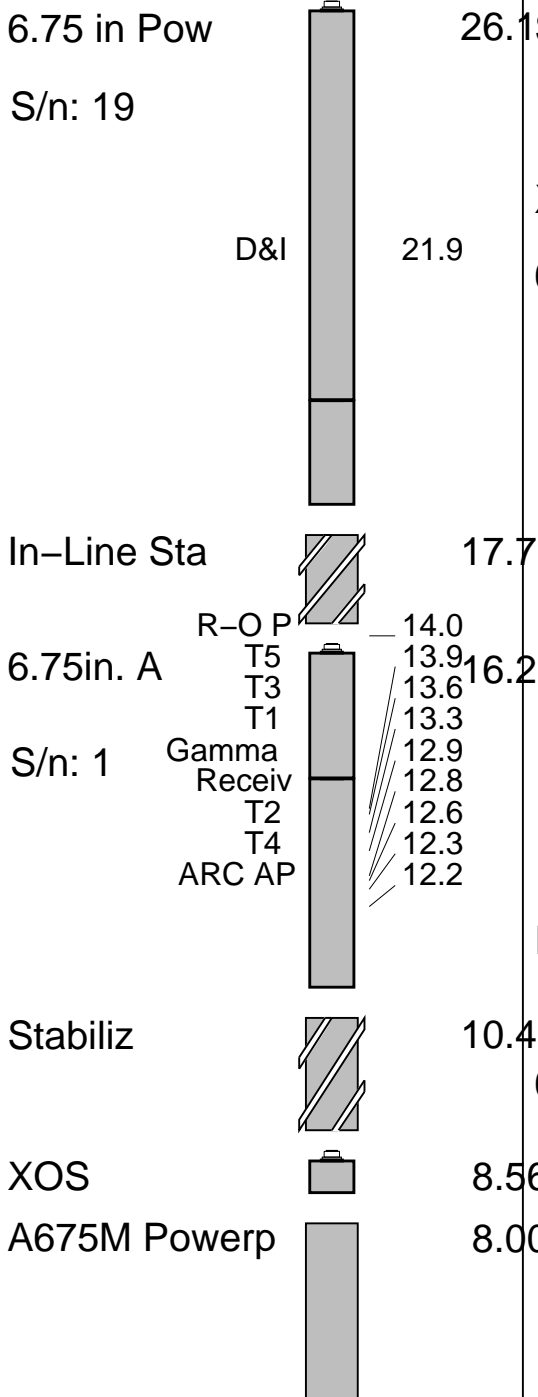
RUN6

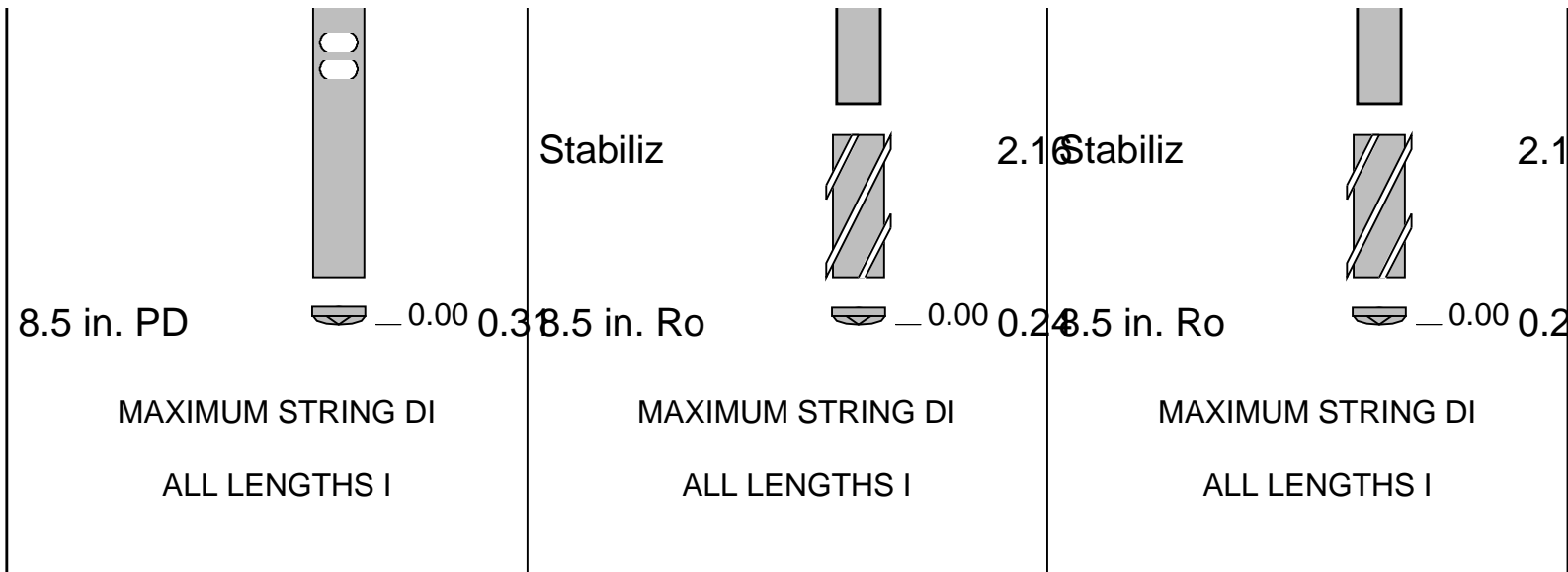
RUN7

## DOWNHOLE EQ

## DOWNHOLE E

## DOWNHOLE EQ





**IDEAL Version: ID6\_1C\_10**  
IDF

ARC5\_675      id6\_1c\_10      MWD\_10      id6\_1c\_10

Format: ARC Dual 500      Vertical Scale: 1:500      Graphics File Created: 14-Nov-2001 13:05

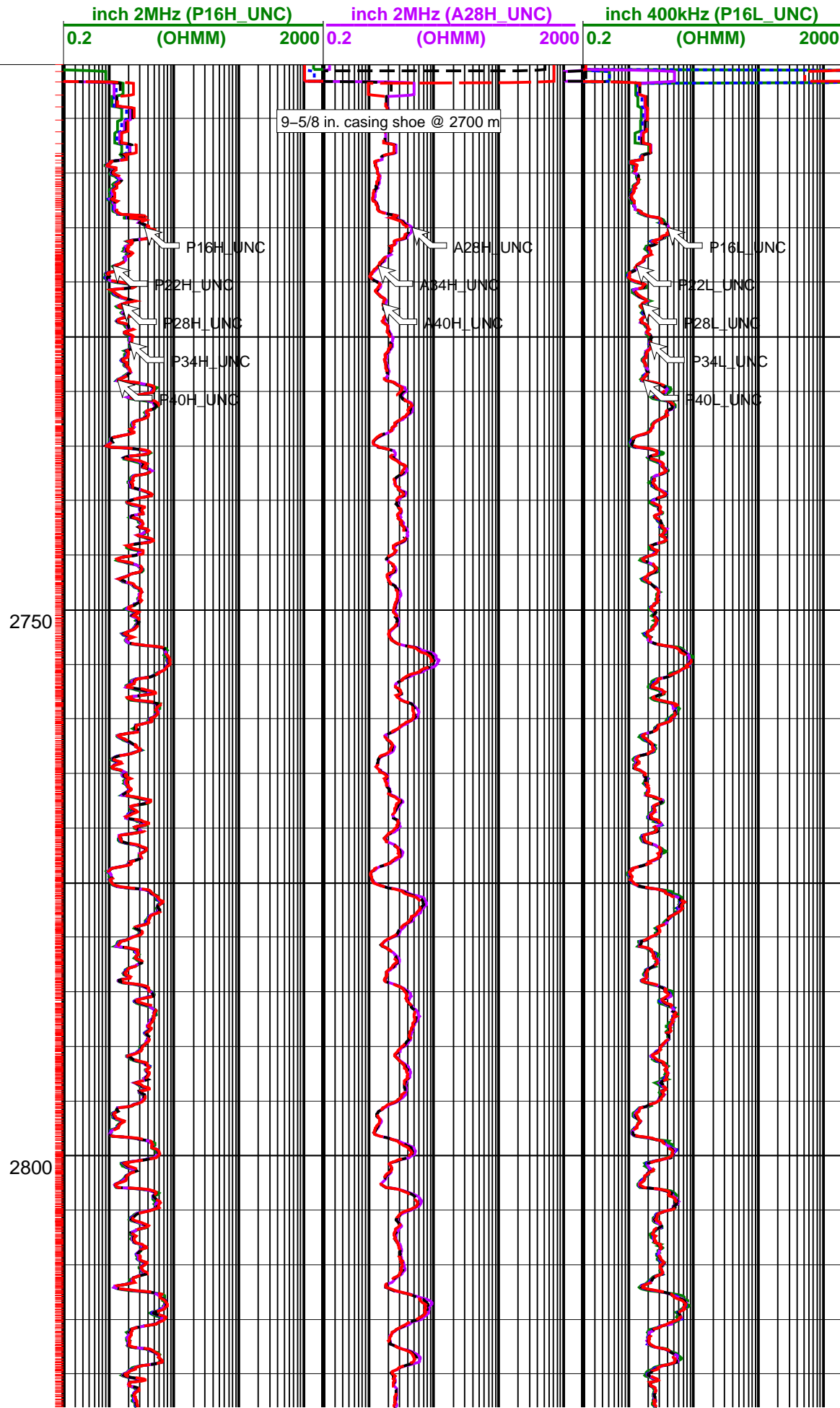
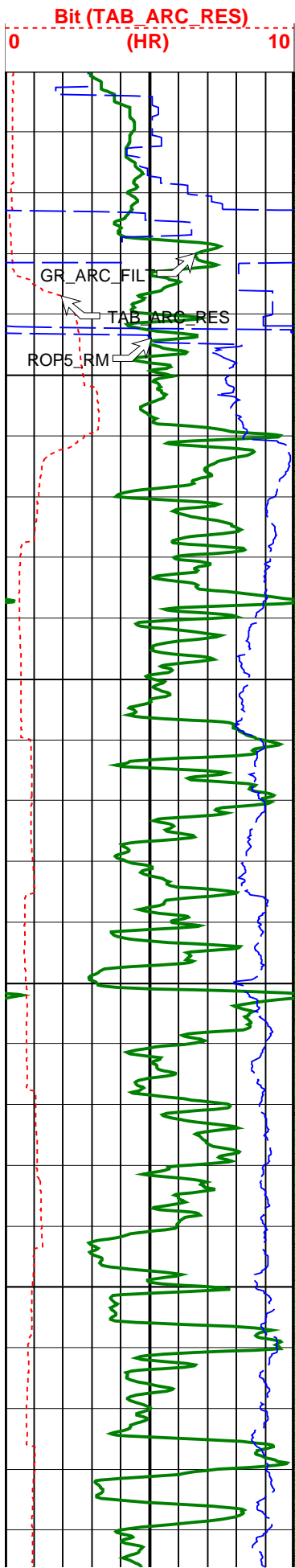
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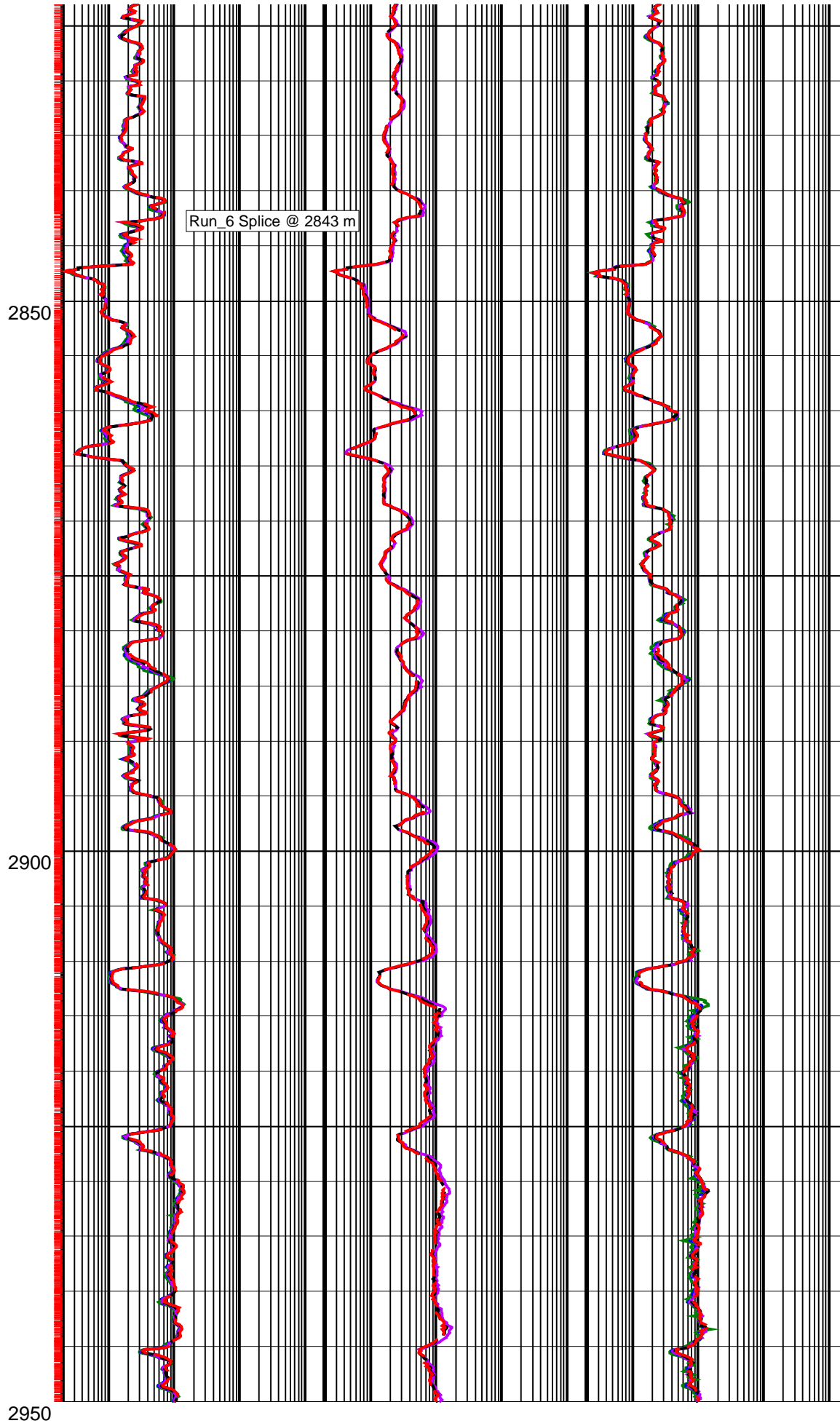
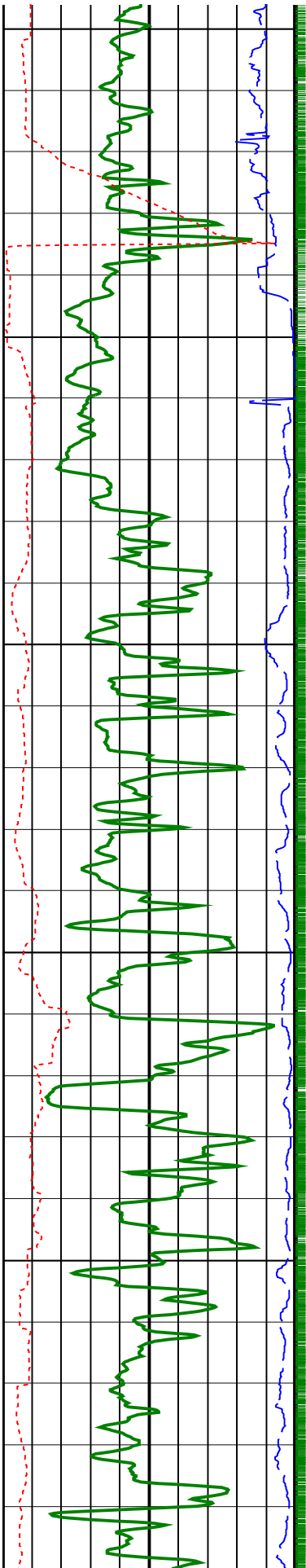
DLIS Name	Description	Value
AAPS	ARC5 Attenuation and Phase-Shift source	1_UPHOLE
APICG	ARC5 Gamma Ray API and Gain Combined Factor	1.147
ATRN	ARC5 Tool Run Number	MELV-1_8-8-5_R1
ATSN	ARC5 Tool Serial Number	117
BS_RM	Bit Size (RM)	8.500 in
DO	Depth Offset	0.0 m
KPER	ARC5:Potassium Concentration	6.000
MST_RM	Mud Sample temperature (RM)	22.780 degC
MW_RM	Mud Weight (RM)	1.120 g/cm3
RMS_RM	Resistivity of Mud Sample (RM)	0.126 ohm.m
VERS_ARC	ARC5 Down hole software version Number	6.400
WRK	ARC5: Way to Report Potassium Concentration	POTASSIUM_BY_WEIGHT_%

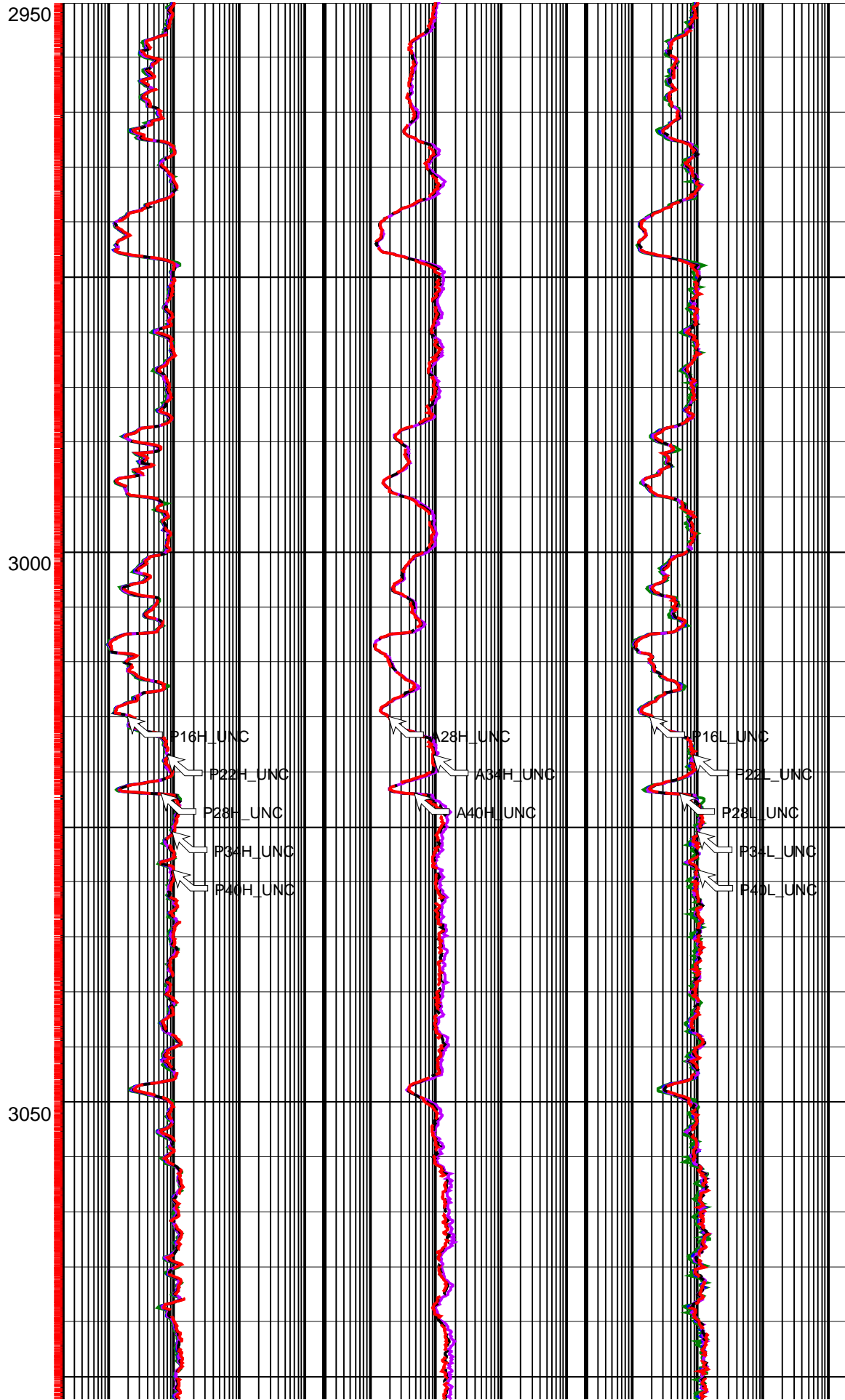
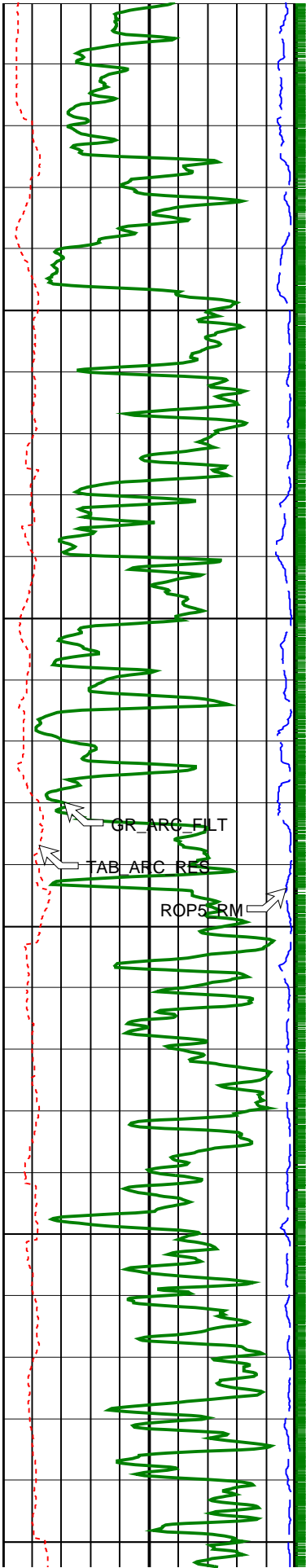
**PIP SUMMARY**

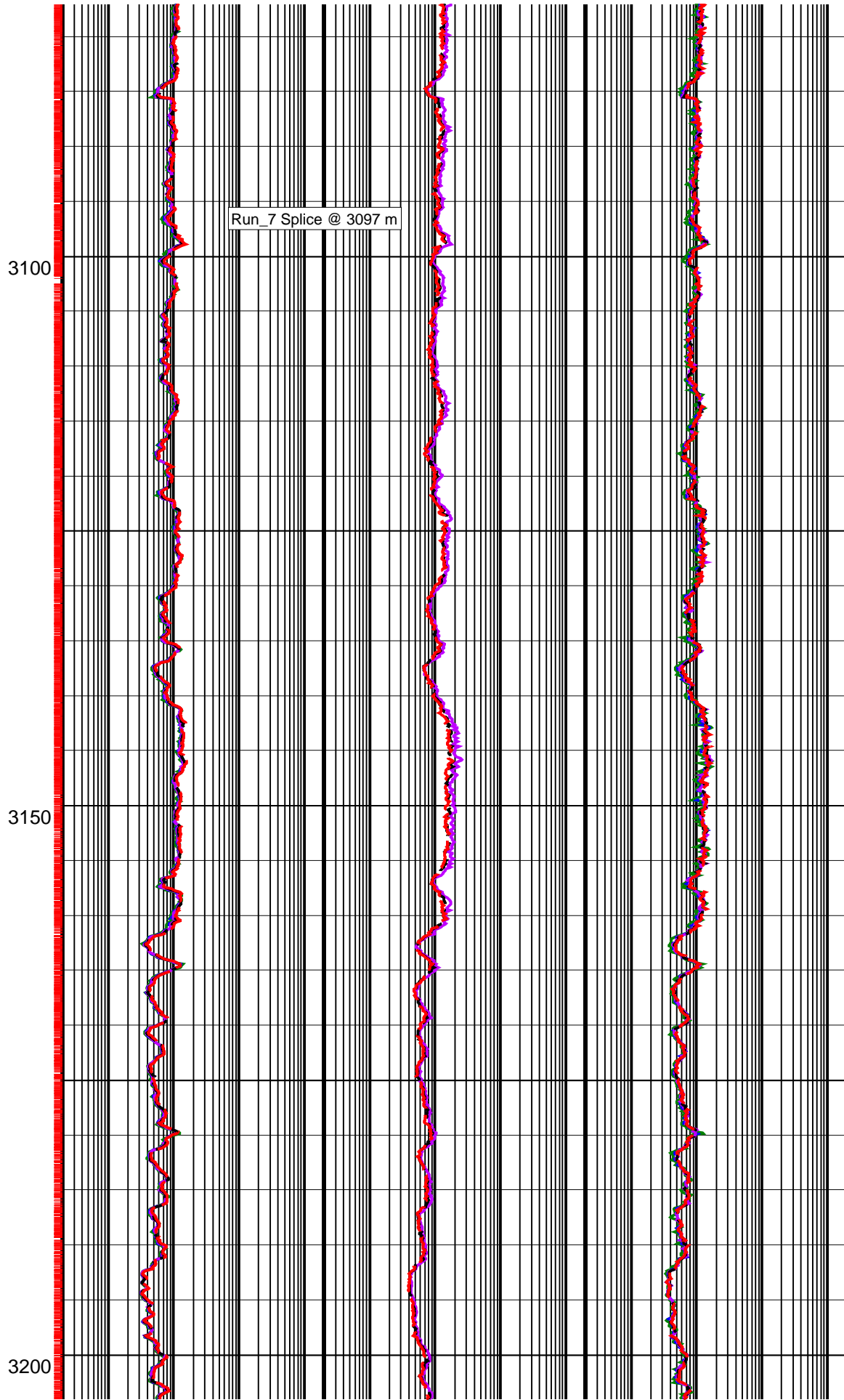
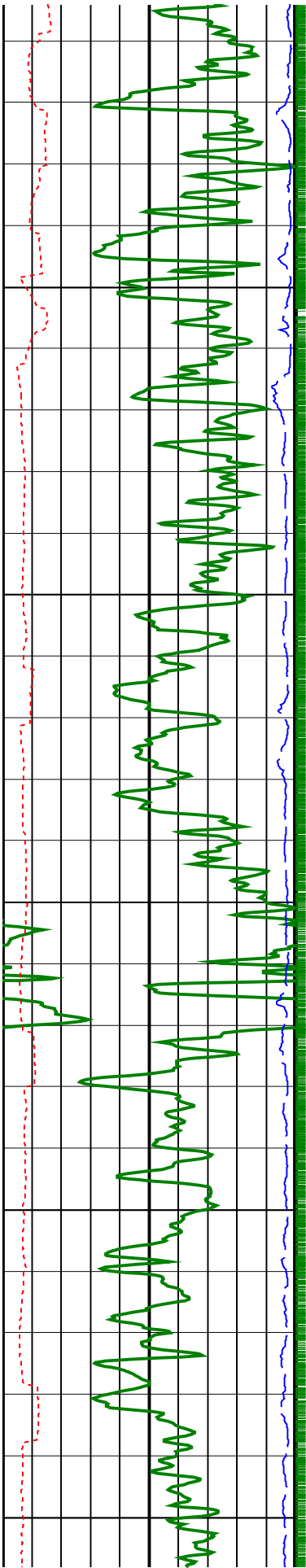
- └ ARC Gamma Ray Samples
- └ ARC Resistivity Samples

	ARC5 Phase Shift Res. 40 inch 2MHz (P40H_UNC) 0.2 (OHMM) 2000		ARC5 Phase Shift Res. 40 inch 400kHz (P40L_UNC) 0.2 (OHMM) 2000
	ARC5 Phase Shift Res. 34 inch 2MHz (P34H_UNC) 0.2 (OHMM) 2000		ARC5 Phase Shift Res. 34 inch 400kHz (P34L_UNC) 0.2 (OHMM) 2000
ARC Gamma Ray (GR_ARC_FILT) 0 (GAPI) 200	ARC5 Phase Shift Res. 28 inch 2MHz (P28H_UNC) 0.2 (OHMM) 2000	ARC5 Attenuation Res. 40 inch 2MHz (A40H_UNC) 0.2 (OHMM) 2000	ARC5 Phase Shift Res. 28 inch 400kHz (P28L_UNC) 0.2 (OHMM) 2000
Rate of Penetration, 5 ft Filtered (ROP5_RM) 200 (M/HR) 0	ARC5 Phase Shift Res. 22 inch 2MHz (P22H_UNC) 0.2 (OHMM) 2000	ARC5 Attenuation Res. 34 inch 2MHz (A34H_UNC) 0.2 (OHMM) 2000	ARC5 Phase Shift Res. 22 inch 400kHz (P22L_UNC) 0.2 (OHMM) 2000
ARC5 Resistivity Time After Bit (TAB_ARC_RES) 0 (HR) 10	ARC5 Phase Shift Res. 16 inch 2MHz (P16H_UNC) 0.2 (OHMM) 2000	ARC5 Attenuation Res. 28 inch 2MHz (A28H_UNC) 0.2 (OHMM) 2000	ARC5 Phase Shift Res. 16 inch 400kHz (P16L_UNC) 0.2 (OHMM) 2000

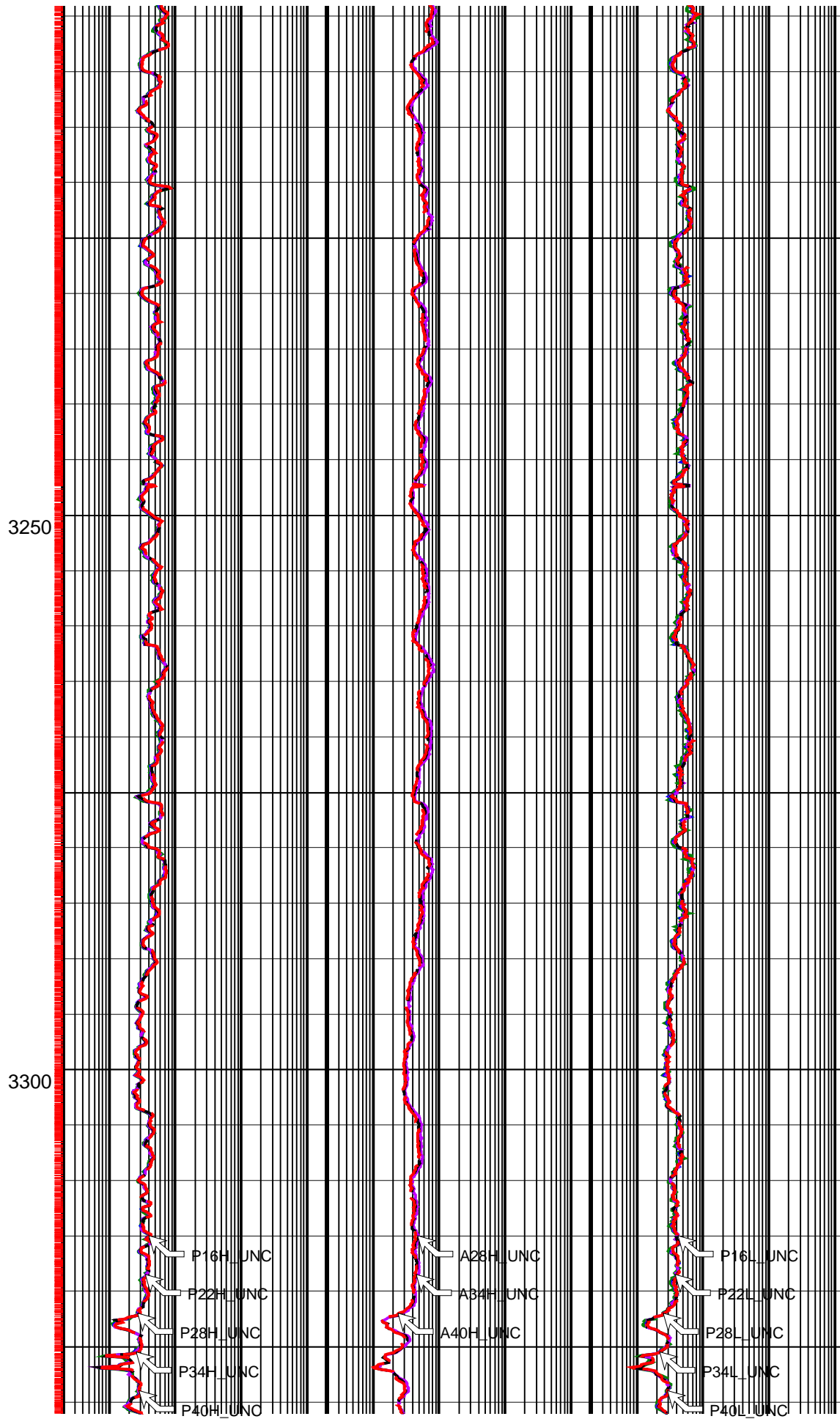
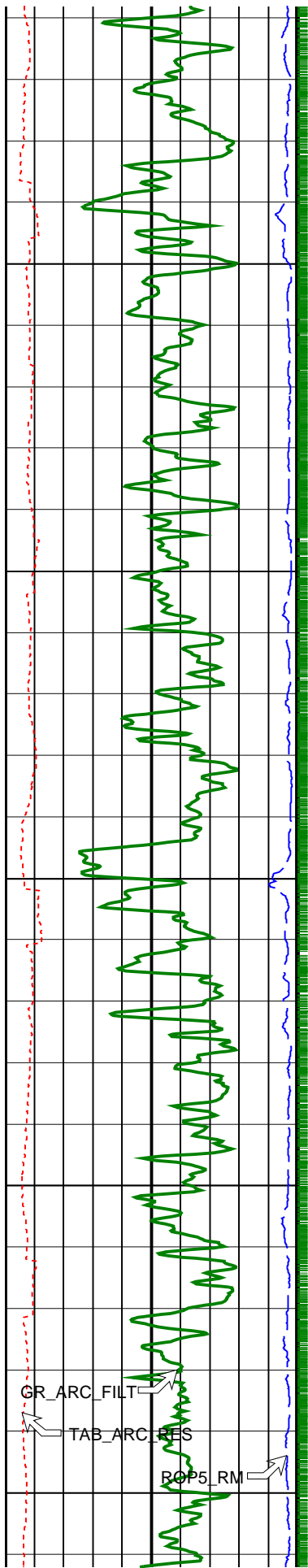


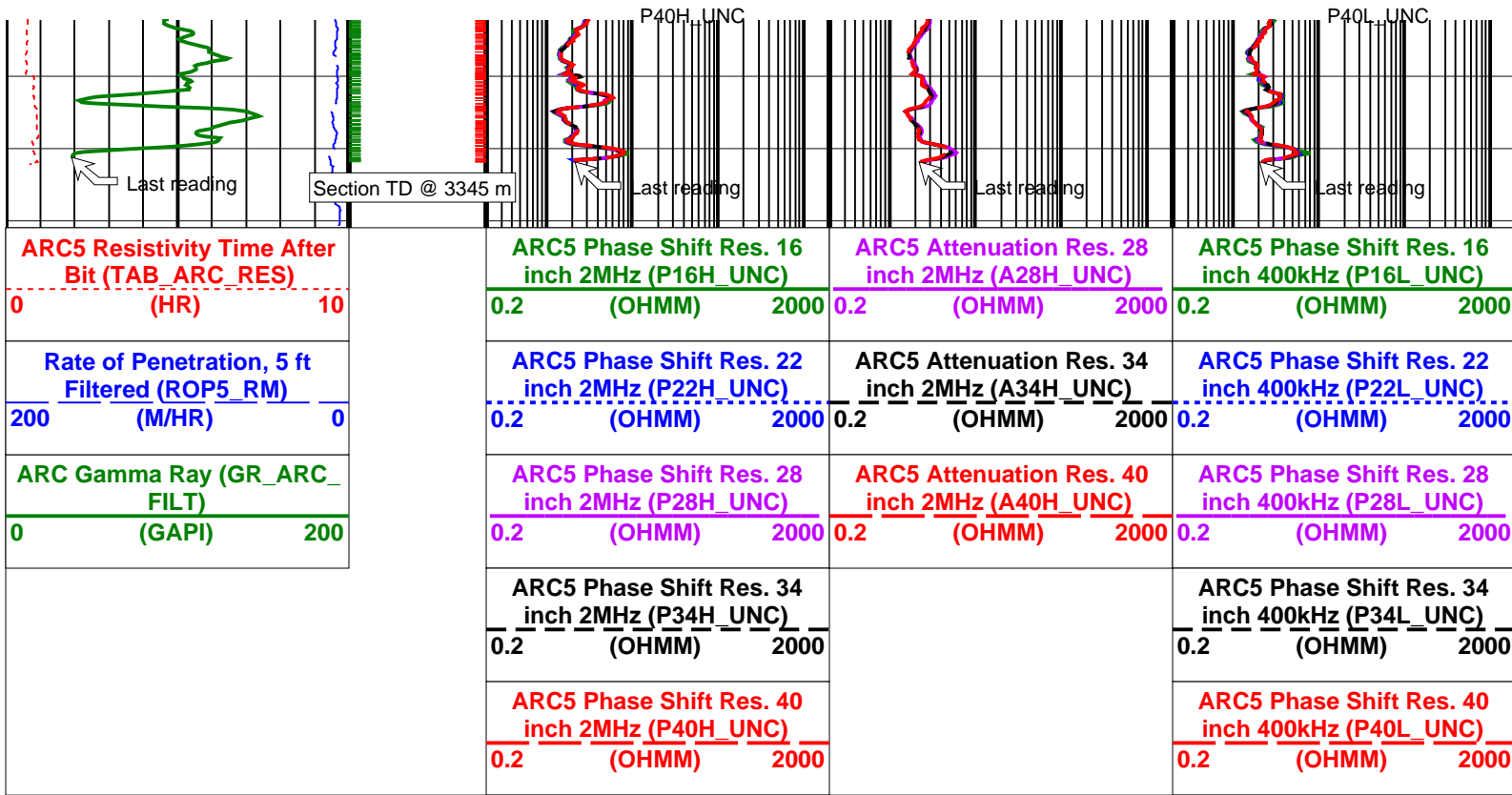












PIP SUMMARY

- └ ARC Gamma Ray Samples
- └ ARC Resistivity Samples

IDEAL Version: ID6\_1C\_10  
IDF

ARC5\_675      id6\_1c\_10      MWD\_10      id6\_1c\_10

6.75-in. Array Resistivity Compensated / Equipment Identification

Primary Equipment:  
Tool Name and Serial Number

ARC6 - S/n: 117

Calibration date: 07-Sep-01

6.75-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		-2.512	Master		2.776	Master		-2.626
	-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		2.722	Master		-2.583	Master		-1.894
	-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		2.074	Master		-1.944	Master		2.089
	-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						

Phase	Phase-Shift T5 at 400KHz	DEG	Value
Master			-1.943
	-3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)

Calibration date: 07-Sep-01

6.75-in. Array Resistivity Compensated Calibration

Resistivity: Air

Phase	Attenuation T1 DB	Value	Phase	Attenuation T2 DB	Value	Phase	Attenuation T3 DB	Value	
Master		7.940	Master		7.156	Master		4.528	
	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		4.992	Master		3.037	Master		7.965	
	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		7.076	Master		4.557	Master		4.960	
	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		3.109							
	1.600 (Minimum)	3.600 (Nominal)	5.600 (Maximum)						

Calibration date: 07-Sep-01

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			5.506
	2.780 (Minimum)	4.800 (Nominal)	6.000 (Maximum)

ANADRILL

SCHLUMBERGER

Survey report 13-Nov-2001 13:04:23 Page 1 of 3

Client.....: Bass Strait Oil Company  
Field.....: Permit VIC/P42

Well.....: Melville-1  
API number.....:  
Engineer.....: A. Abad / M. Saicic

COUNTY.....: Ocean Bounty  
STATE.....: Victoria

Spud date.....: 17-Oct-01  
Last survey date.....: 13-Nov-01  
Total accepted surveys...: 60  
MD of first survey.....: 1432.10 m  
MD of last survey.....: 3345.00 m

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

----- Depth reference -----  
Permanent datum.....: L.A.T.  
Depth reference.....: Driller's Pipe Tally  
GL above permanent.....: -100.00 m  
KB above permanent.....: 75.00 m  
DF above permanent.....: 25.00 m

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

----- Platform reference point-----  
Latitude (+N/S-).....: 5,717,796 m  
Departure (+E/W-).....: 585,729.8 m

Azimuth from rotary table to target: 0.00 degrees

----- Geomagnetic data -----  
Magnetic model.....: BGGM version 2000  
Magnetic date.....: 24-Oct-2001  
Magnetic field strength...: 1206.71 HCNT  
Magnetic dec (+E/W-).....: 13.17 degrees  
Magnetic dip.....: -69.20 degrees

----- MWD survey Reference Criteria -----  
Reference G.....: 1000.07 mGal  
Reference H.....: 1206.71 HCNT  
Reference Dip.....: -69.20 degrees  
Tolerance of G.....: (+/-) 2.50 mGal  
Tolerance of H.....: (+/-) 6.00 HCNT  
Tolerance of Dip.....: (+/-) 0.45 degrees

----- Corrections -----  
Magnetic dec (+E/W-).....: 13.17 degrees  
Grid convergence (+E/W-)..: -1.17 degrees  
Total az corr (+E/W-).....: 14.34 degrees  
(Total az corr = magnetic dec - grid conv)  
Sag applied (Y/N).....: No degree: 0.00

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	1432.10	2.40	228.90	0.00	1432.00	-2.80	-2.80	-1.60	3.22	209.74	0.00	EMS	TIP
2	1443.09	2.50	236.20	10.99	1442.98	-3.08	-3.08	-1.97	3.66	212.60	0.30	MWD	6-axis
3	1494.71	2.59	236.48	51.62	1494.55	-4.35	-4.35	-3.88	5.83	221.70	0.02	MWD	6-axis
4	1557.58	2.56	237.49	62.87	1557.36	-5.89	-5.89	-6.25	8.59	226.67	0.01	MWD	6-axis
5	1615.86	2.80	236.37	58.28	1615.57	-7.38	-7.38	-8.53	11.28	229.13	0.04	MWD	6-axis
6	1644.61	2.69	236.51	28.75	1644.29	-8.14	-8.14	-9.68	12.65	229.93	0.04	MWD	6-axis
7	1668.50	2.86	238.36	23.89	1668.15	-8.77	-8.77	-10.65	13.80	230.56	0.08	MWD	6-axis
8	1699.25	2.65	238.80	30.75	1698.87	-9.54	-9.54	-11.92	15.26	231.33	0.07	MWD	6-axis
9	1727.71	2.60	239.64	28.46	1727.30	-10.20	-10.20	-13.03	16.55	231.95	0.02	MWD	6-axis
10	1756.63	2.51	238.85	28.92	1756.19	-10.86	-10.86	-14.14	17.83	232.48	0.03	MWD	6-axis
11	1786.00	2.34	240.28	29.37	1785.53	-11.49	-11.49	-15.21	19.07	232.93	0.06	MWD	6-axis
12	1814.34	2.29	240.62	28.34	1813.85	-12.06	-12.06	-16.21	20.20	233.36	0.02	MWD	6-axis
13	1843.18	2.18	239.19	28.84	1842.67	-12.62	-12.62	-17.18	21.32	233.70	0.04	MWD	6-axis
14	1901.41	1.96	237.87	58.23	1900.86	-13.72	-13.72	-18.98	23.42	234.14	0.04	MWD	6-axis
15	1931.65	1.78	237.81	30.24	1931.08	-14.24	-14.24	-19.81	24.40	234.29	0.06	MWD	6-axis
16	1960.46	1.72	237.86	28.81	1959.88	-14.71	-14.71	-20.56	25.28	234.41	0.02	MWD	6-axis
17	1989.04	1.62	235.40	28.58	1988.45	-15.17	-15.17	-21.25	26.11	234.49	0.04	MWD	6-axis
18	2047.36	1.44	230.77	58.32	2046.74	-16.10	-16.10	-22.50	27.67	234.41	0.04	MWD	6-axis
19	2075.90	1.46	228.72	28.54	2075.28	-16.57	-16.57	-23.05	28.39	234.30	0.02	MWD	6-axis
20	2104.97	1.26	223.46	29.07	2104.34	-17.04	-17.04	-23.55	29.07	234.11	0.08	MWD	6-axis
21	2133.36	1.26	222.20	28.39	2132.72	-17.50	-17.50	-23.97	29.68	233.87	0.01	MWD	6-axis
22	2161.89	1.14	222.54	28.53	2161.24	-17.94	-17.94	-24.38	30.27	233.64	0.04	MWD	6-axis
23	2190.93	1.21	218.85	29.04	2190.28	-18.39	-18.39	-24.76	30.85	233.40	0.04	MWD	6-axis
24	2220.38	1.11	218.25	29.45	2219.72	-18.86	-18.86	-25.13	31.42	233.12	0.03	MWD	6-axis
25	2249.29	1.04	218.39	28.91	2248.63	-19.29	-19.29	-25.47	31.95	232.87	0.02	MWD	6-axis
26	2278.19	0.90	218.62	28.90	2277.52	-19.67	-19.67	-25.78	32.42	232.65	0.05	MWD	6-axis
27	2307.52	0.99	219.17	29.33	2306.85	-20.04	-20.04	-26.08	32.89	232.45	0.03	MWD	6-axis
28	2336.95	1.01	219.68	29.43	2336.27	-20.44	-20.44	-26.41	33.39	232.26	0.01	MWD	6-axis
29	2365.20	0.95	216.00	28.25	2364.52	-20.82	-20.82	-26.70	33.86	232.05	0.03	MWD	6-axis
30	2394.92	1.02	211.37	29.72	2394.24	-21.25	-21.25	-26.98	34.35	231.78	0.04	MWD	6-axis

[(c)2001 Anadrill IDEAL ID6\_1C\_10]  
ANADRILL SCHLUMBERGER Survey Report

13-Nov-2001 13:04:23

Page 3 of 3

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	2422.33	1.09	213.07	27.41	2421.64	-21.67	-21.67	-27.25	34.82	231.51	0.03	MWD	6-axis
32	2480.97	1.04	210.77	58.64	2480.27	-22.60	-22.60	-27.83	35.85	230.92	0.01	MWD	6-axis
33	2538.48	1.07	207.79	57.51	2537.77	-23.52	-23.52	-28.35	36.84	230.31	0.01	MWD	6-axis
34	2558.35	1.06	210.59	19.87	2557.64	-23.84	-23.84	-28.53	37.18	230.11	0.03	MWD	6-axis
35	2590.86	1.13	214.63	32.50	2590.13	-24.37	-24.37	-28.86	37.77	229.83	0.03	MWD	6-axis
36	2648.71	1.10	221.39	57.86	2647.98	-25.25	-25.25	-29.55	38.87	229.49	0.02	MWD	6-axis
37	2677.84	1.17	224.01	29.13	2677.10	-25.68	-25.68	-29.95	39.45	229.39	0.03	MWD	6-axis
38	2743.69	1.35	230.93	65.85	2742.94	-26.65	-26.65	-31.02	40.89	229.33	0.04	MWD	6-axis
39	2772.78	1.31	229.00	29.09	2772.02	-27.08	-27.08	-31.53	41.57	229.34	0.02	MWD	6-axis
40	2801.94	1.34	230.09	29.16	2801.17	-27.52	-27.52	-32.05	42.24	229.34	0.01	MWD	6-axis
41	2830.87	1.60	226.88	28.93	2830.09	-28.01	-28.01	-32.60	42.98	229.33	0.09	MWD	6-axis
42	2862.03	1.75	228.47	31.16	2861.24	-28.63	-28.63	-33.27	43.89	229.29	0.05	MWD	6-axis
43	2889.90	2.04	226.84	27.87	2889.10	-29.25	-29.25	-33.95	44.81	229.26	0.11	MWD	6-axis
44	2919.06	2.08	227.19	29.16	2918.24	-29.96	-29.96	-34.72	45.86	229.21	0.01	MWD	6-axis
45	2948.01	1.81	221.56	28.95	2947.17	-30.66	-30.66	-35.41	46.84	229.11	0.11	MWD	6-axis
46	2977.28	1.63	219.95	29.27	2976.43	-31.33	-31.33	-35.98	47.71	228.96	0.06	MWD	6-axis
47	3005.24	1.51	212.47	27.96	3004.38	-31.94	-31.94	-36.44	48.46	228.76	0.08	MWD	6-axis
48	3033.85	1.32	208.32	28.61	3032.98	-32.55	-32.55	-36.80	49.13	228.50	0.08	MWD	6-axis
49	3063.37	0.92	208.53	29.52	3062.49	-33.06	-33.06	-37.07	49.67	228.27	0.14	MWD	6-axis
50	3086.82	0.89	200.42	23.45	3085.94	-33.39	-33.39	-37.22	50.01	228.10	0.06	MWD	6-axis
51	3119.68	0.65	170.45	32.86	3118.80	-33.82	-33.82	-37.28	50.33	227.79	0.14	MWD	6-axis
52	3149.04	1.19	129.46	29.36	3148.15	-34.18	-34.18	-37.02	50.38	227.29	0.28	MWD	6-axis
53	3177.87	1.26	140.82	28.83	3176.98	-34.61	-34.61	-36.59	50.36	226.59	0.09	MWD	6-axis
54	3206.58	1.60	135.02	28.71	3205.68	-35.14	-35.14	-36.10	50.38	225.78	0.13	MWD	6-axis
55	3237.14	1.95	129.83	30.56	3236.22	-35.77	-35.77	-35.40	50.33	224.70	0.13	MWD	6-axis
56	3264.76	2.44	130.63	27.62	3263.82	-36.46	-36.46	-34.60	50.26	223.50	0.18	MWD	6-axis
57	3294.49	2.68	134.69	29.73	3293.52	-37.36	-37.36	-33.62	50.26	221.99	0.10	MWD	6-axis
58	3317.25	2.89	133.42	22.76	3316.26	-38.13	-38.13	-32.83	50.31	220.73	0.10	MWD	6-axis
59	3329.04	2.96	135.16	11.79	3328.03	-38.55	-38.55	-32.40	50.35	220.04	0.10	MWD	6-axis
60	3345.00	3.00	137.00	15.96	3343.97	-39.15	-39.15	-31.82	50.45	219.11	0.06	Projection to TD	

[(c)2001 Anadrill IDEAL ID6\_1C\_10]

Well: Melville-1 8.5 in. hole  
Field: Gippsland Basin  
Rig: Ocean Bounty  
State: Victoria

**IDEAL** services from **Anadrill**

**VISION Resistivity**  
**1:500 Measured Depth**  
**Recorded Mode**

**Schlumberger**