

Company: **Woodside Energy Limited**

Well: **Geographe-1** **Exploration**

Field: **Permit VIC/P43**

Rig: **Ocean Bounty** State: **Victoria**

Rig: Ocean Bounty Field: Permit VIC/P43 Location: Otway Basin, Offshore Victoria Well: Geographe-1 Company: Woodside Energy Limited			VISION APWD / IWOB Log Measured Depth Scale 1:500			
	Total depth: 2430 m		Elevation	Water Depth 85 m		
	Spud date: 30 May 2001			RT to LAT 25.0 m		
	Runs: 1 To 3		RT to Seabed 110.0 m			
Permanent datum: <u>Lowest Astronomical Tide</u>		Elev.: <u>Rotary Table</u>				
Log measured from: <u>Rotary Table</u>		25.0 m above Perm. datum				
Depth reference: <u>Driller's Pipe Tally</u>						
API serial no.	Vertical Section	Longitude		Latitude		
	0 deg	E 142 55' 38.9176"		S 39 06' 47.1258"		
Depth logged: 1662 m To 2427 m		Mag decl: 11.05 deg		Other services:		
Date logged: 07 June 01 To 16 June 01		Mag dip: -70.29 deg		MWD		
Bore hole record			Casing record			
Hole size	from	to	Size	Density	from	to
12.25 in	605 m	1666 m	13.375 in	61 lb/ft	110.0 m	597.5 m
8.5 in	1666 m	2430 m	9.625 in	47 lb/ft	110.0 m	1648.0 m
Mud record			Borehole deviation record			
Type	from	to	Min	Max	from	to
KCl/Polymer	1666 m	2430 m	1.32 deg	4.18 deg	1666 m	2430 m
Surface equipment		Software record		IDEAL services from Anadrill		
Unit	TWIS-EA	IDEAL Wis	6.1c_03			
Depth system	Geolograph	SPM	6.1c_03			
		LWD	6.3			
		MWD	6.1			

Bit Run Summary

Run number	1	2	3
Bit size	8.5	8.5	8.5
Bit start depth	1666	1814	1907
Bit end depth	1814	1907	2430
Top interval logged	1662	1810	1903
Bottom interval logged	1810	1903	2427
Begin log: time	18:50	15:10	04:10
Begin log: date	10 June 01	12 June 01	14 June 01
End log: time	08:40	21:00	01:20
End log: date	11 June 01	12 June 01	16 June 01
Mud data			
Depth	1814	1885	2364
Type	KCl/Polymer	KCl/Polymer	KCl/Polymer

Type		KCl/Polymer	KCl/Polymer	KCl/Polymer						
Mud weight	sg	1.30	1.30	1.31						
Solids	%vol	12.5	13.0	13.5						
Chlorides	mg/l	53,000	49,000	53,000						
Rm	ohm.m@degC	0.129@27	0.105@26	0.123@22						
Rmf	ohm.m@degC	0.093@27	0.088@26	0.083@22						
Rmc	ohm.m@degC	0.229@27	0.186@26	0.248@22						
Potassium	mg/l	45,000	44,000	44,000						
Environmental data										
GR										
Mud weight	sg	1.30	1.30	1.31						
Bit size	in	8.5	8.5	8.5						
Resistivity										
Neutron porosity										
Hole Size										
Mud weight										
Temperature										
Mud salinity										
Formation salinity										
Recording rate 1	SEC	10 sec	10 sec	10 sec	ARC GR					
Recording rate 2	SEC	10 sec	10 sec	10 sec	ARC RES					
Filtering GR		3 point	3 point	3 point						
Filtering density										
Filtering Neutron										
Company representative		D.Bell	M.Bilek	G.Westie						
Anadrill personnel		A.Strahan	L.Muskett							

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.

OTHER SERVICES FOR RUN1	OTHER SERVICES FOR RUN2	OTHER SERVICES FOR RUN3
MWD Surveys. DWOB/DTORQ. APWD monitoring.	MWD Surveys. DWOB/DTORQ. APWD monitoring.	MWD Surveys. DWOB/DTORQ. APWD monitoring.
REMARKS: RUN NUMBER 1 Rotary drilled from 1666-1814m. Environmental conditions applied:- ARC GR: K+, borehole size and mud weight ARC resistivity is borehole compensated but not environmentally corrected. 10 June 01 06:48 Initialise ARC#087 with 10sec GR, 2MHz and 400KHz resistivity configuration. 09:15 BHA below rotary table. 18:50 On bottom drilling new formation in the 8 1/2" hole at 1666m 11 June 01 01:10 Real-time data lost between 1648m-1689m due to corrupt surface software. 08:40 TD at 1814m for coring. 16:20 BHA above rotary table. Retrieve ARC recorded mode memory data.	REMARKS: RUN NUMBER 2 Ream logging data from 1814-1850m Rotary drilled from 1850-1907m. Environmental conditions applied:- ARC GR: K+, borehole size and mud weight ARC resistivity is borehole compensated but not environmentally corrected. 12 June 01 10:32 Initialise ARC#087 with 10sec GR, 2MHz and 400KHz resistivity configuration. 11:15 BHA below rotary table. 15:10 Ream down to acquire LWD data from 1814-1850m. 17:10 On bottom drilling at 1850m 21:00 TD at 1907m for coring 13 June 01 2:45 BHA above rotary table. Retrieve ARC recorded mode memory data.	REMARKS: RUN NUMBER 3 Ream logging data from 1907-1915m Rotary drilled from 1915-2430m. Environmental conditions applied:- ARC GR: K+, borehole size and mud weight ARC resistivity is borehole compensated but not environmentally corrected. 14 June 01 00:15 Initialise ARC#087 with 10sec GR, 2MHz and 400KHz resistivity configuration. 00:30 BHA below rotary table. 04:10 Ream down to acquire LWD data from 1907-1915m. 04:35 On bottom drilling at 1915m 16 June 01 01:20 TD at 2430m 15:40 BHA above rotary table. Retrieve ARC recorded mode memory data.

EQUIPMENT DESCRIPTION

RUN1

RUN2

RUN3

DOWNHOLE EQ

DOWNHOLE E

DOWNHOLE EQ

PowerPulse MW

17.0

PowerPulse MW

17.1

PowerPulse MW

17.1

D&I

— 12.8

D&I

— 12.8

D&I

— 12.8

In-line Stabilis

8.63

In-line Stabilis

8.67

In-line Stabilis

8.67

ARC675

7.15

ARC675

7.19

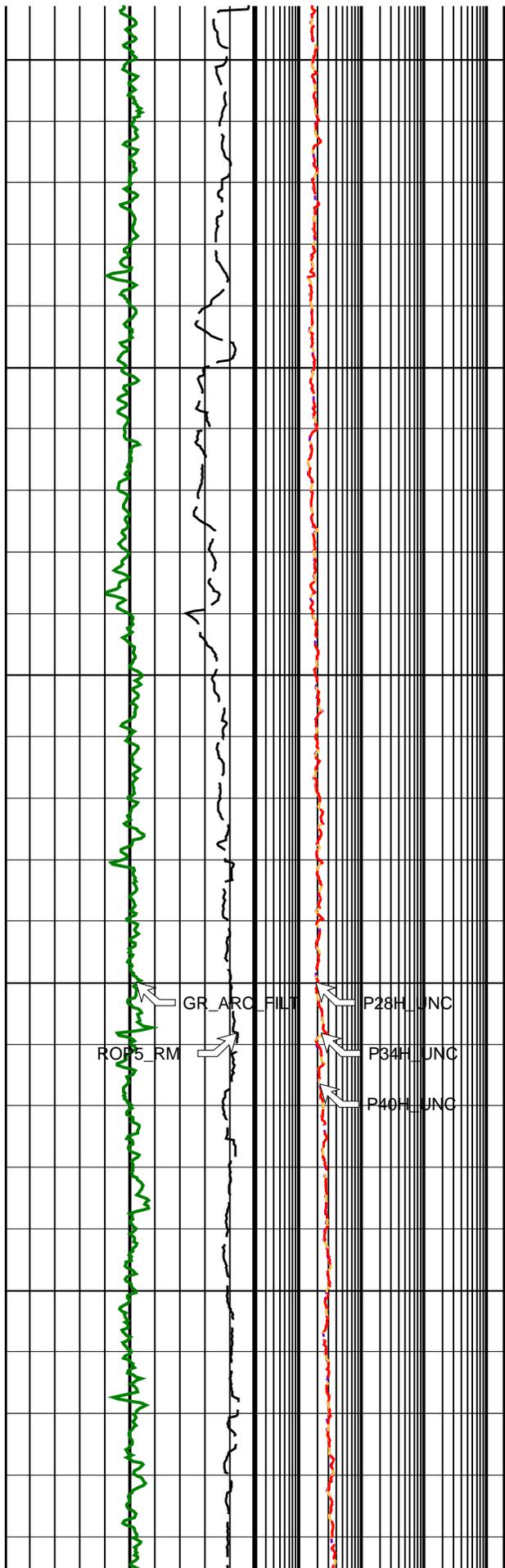
ARC675

7.19

R-O P	—	4.89
T5	—	4.79
T3	—	4.48
T1	—	4.18
Gamma	///	3.75
Receiv	///	3.67
T2	///	3.52
T4	///	3.21
ARC AP	///	3.06

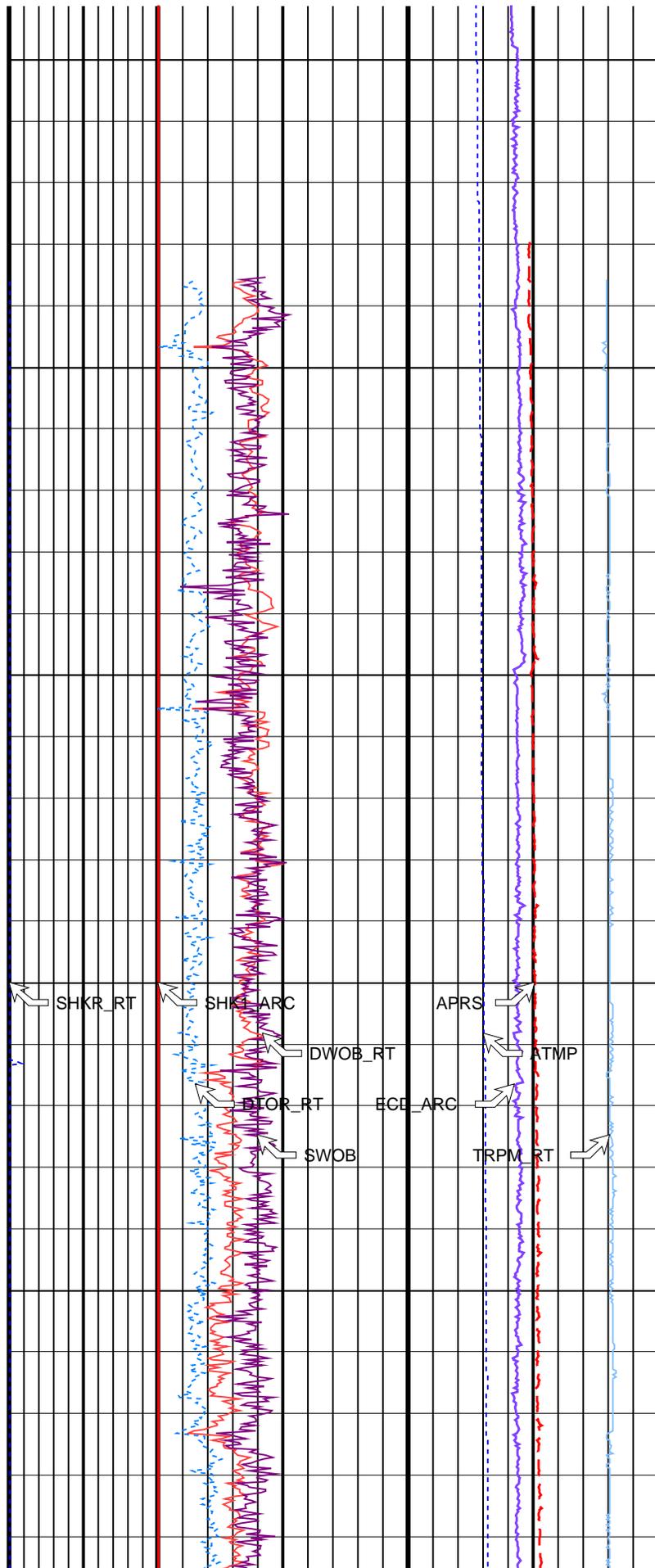
R-O P	—	4.93
T5	—	4.83
T3	—	4.52
T1	—	4.22
Gamma	///	3.79
Receiv	///	3.71
T2	///	3.56
T4	///	3.25
ARC AP	///	3.10

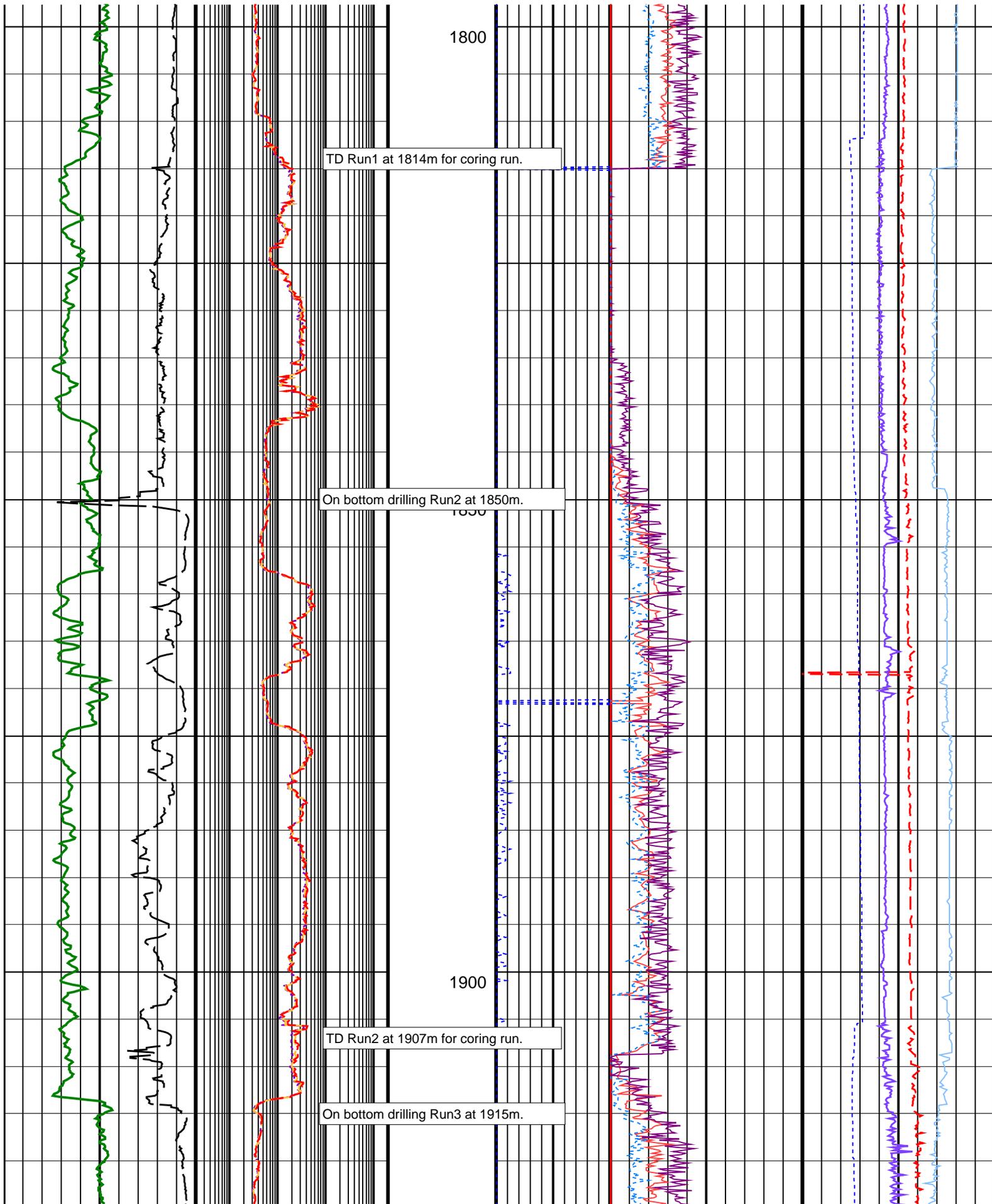
R-O P	—	4.93
T5	—	4.83
T3	—	4.52
T1	—	4.22
Gamma	///	3.79
Receiv	///	3.71
T2	///	3.56
T4	///	3.25
ARC AP	///	3.10

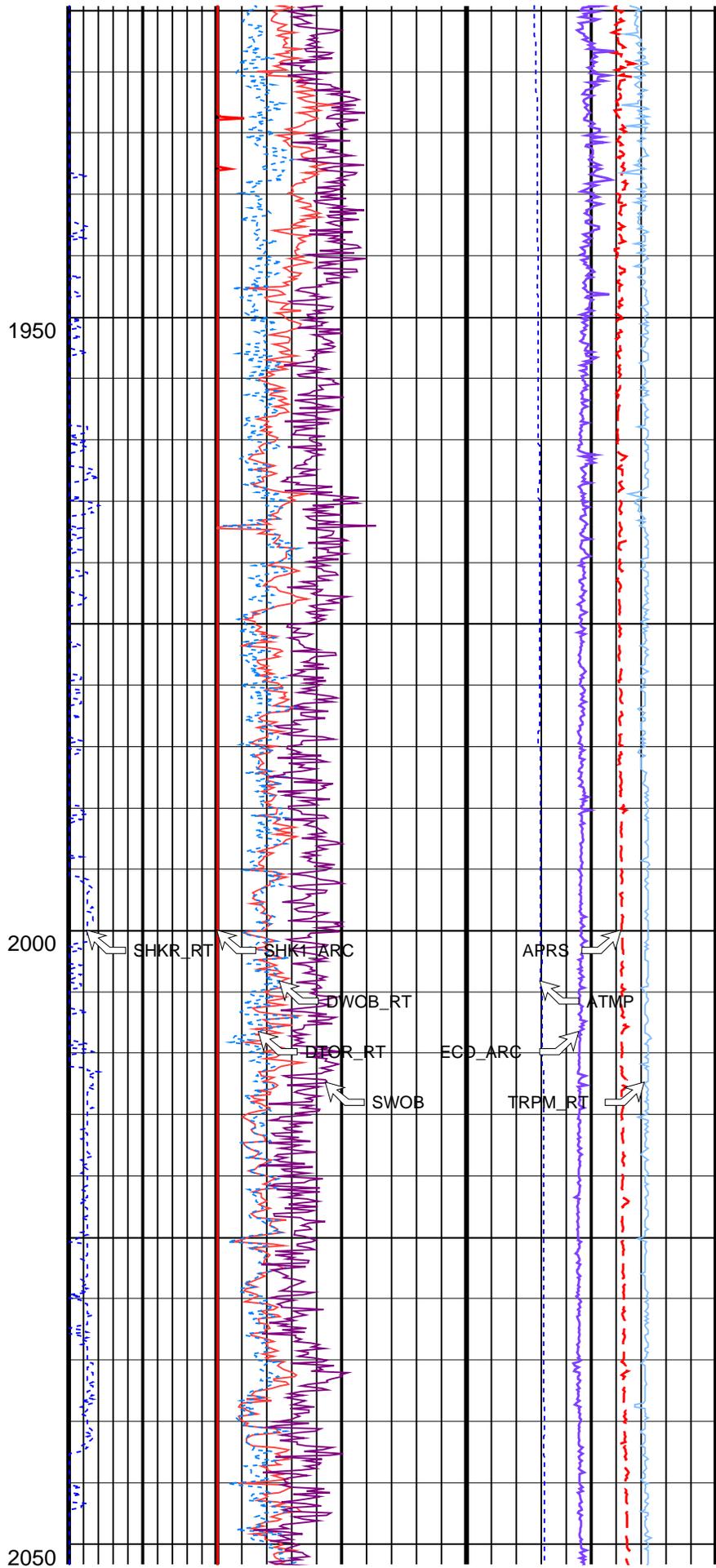
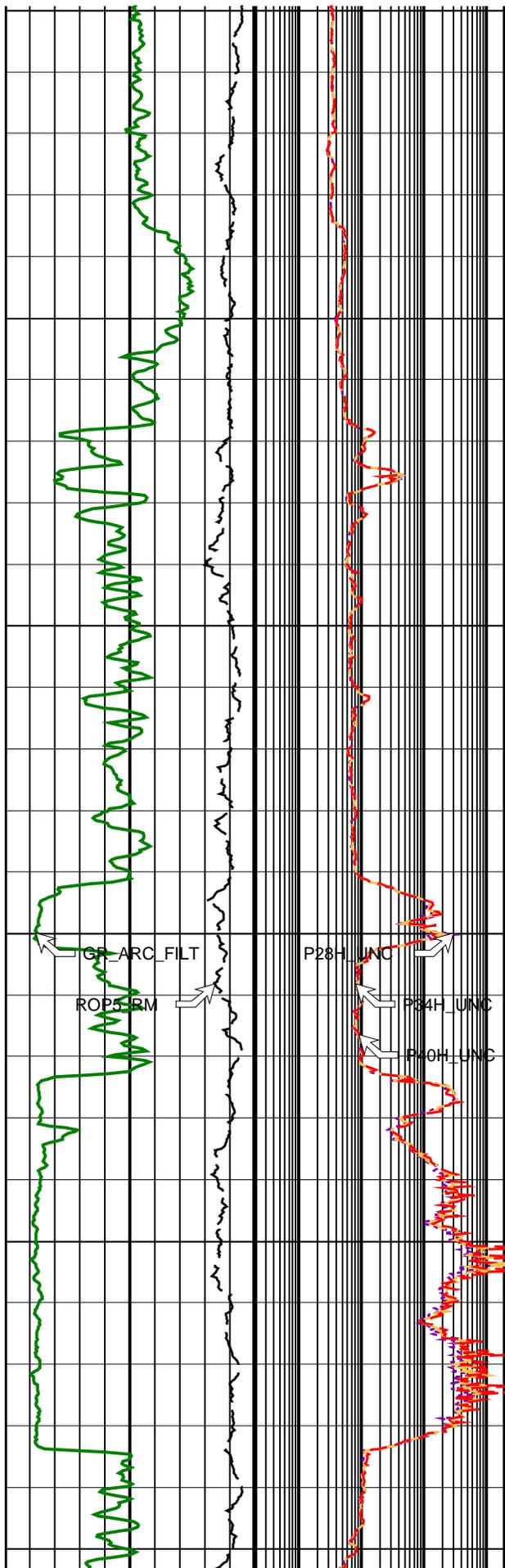


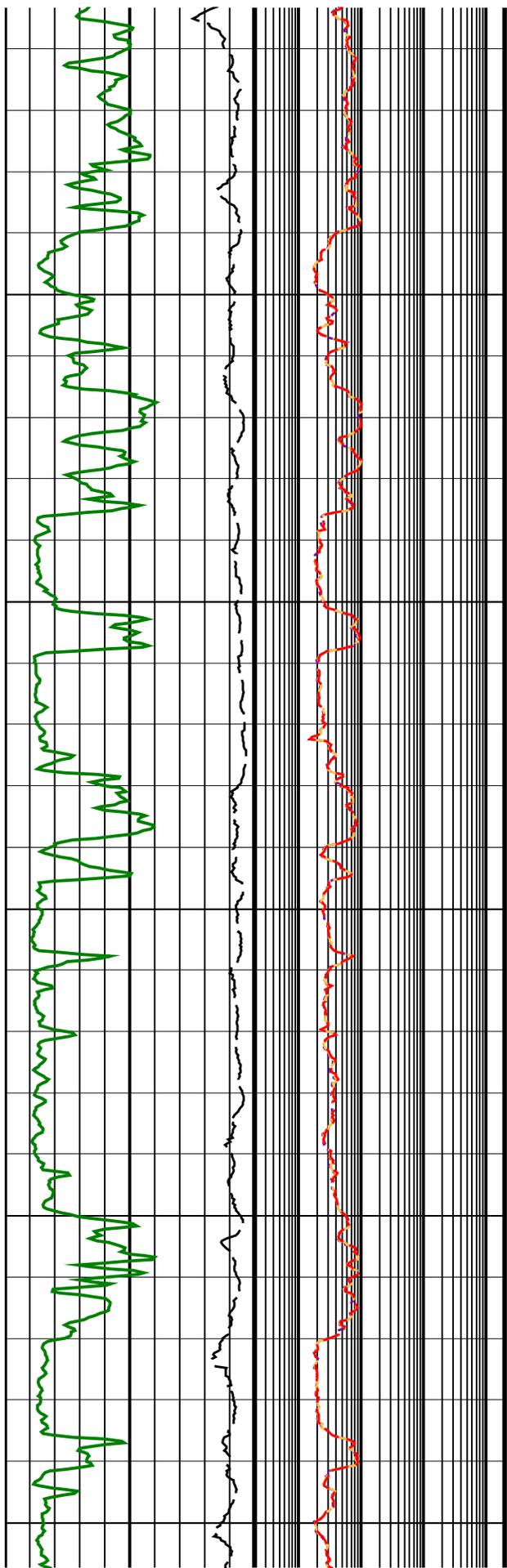
1700

1750





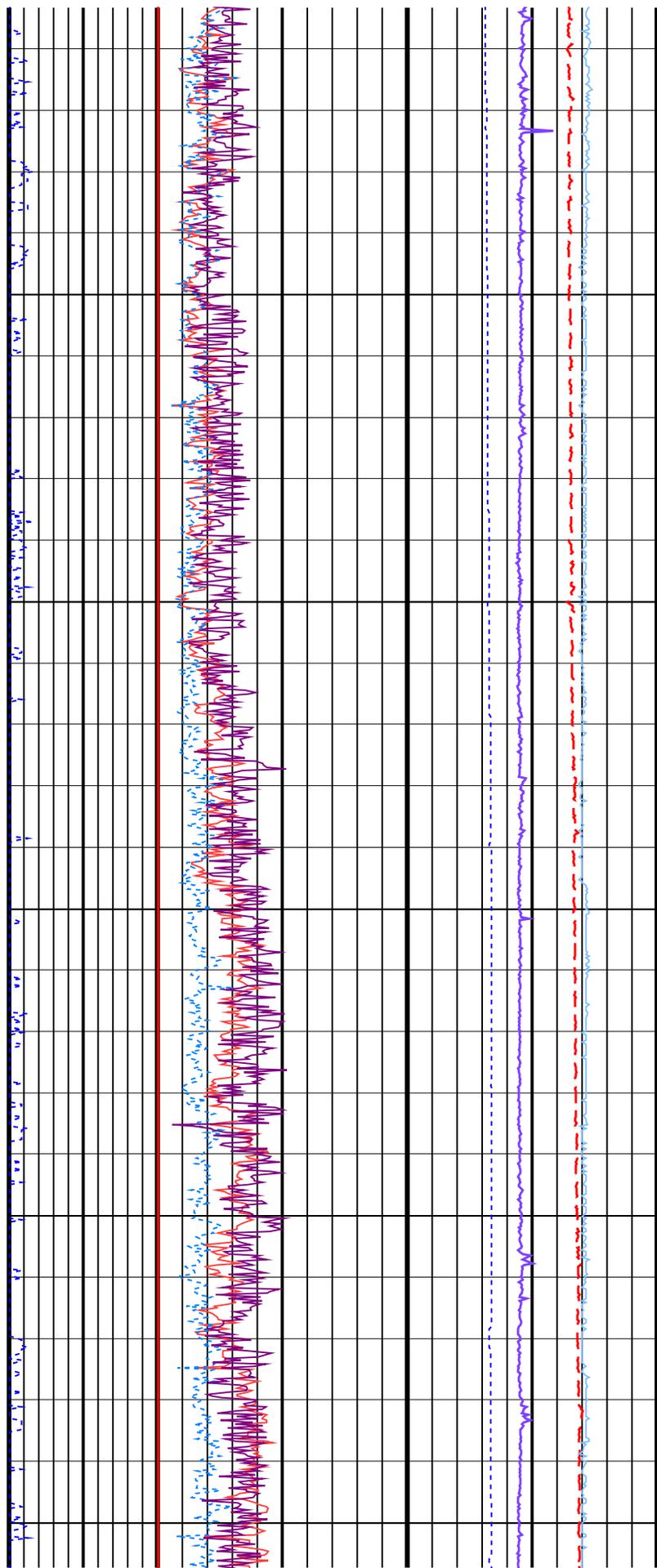


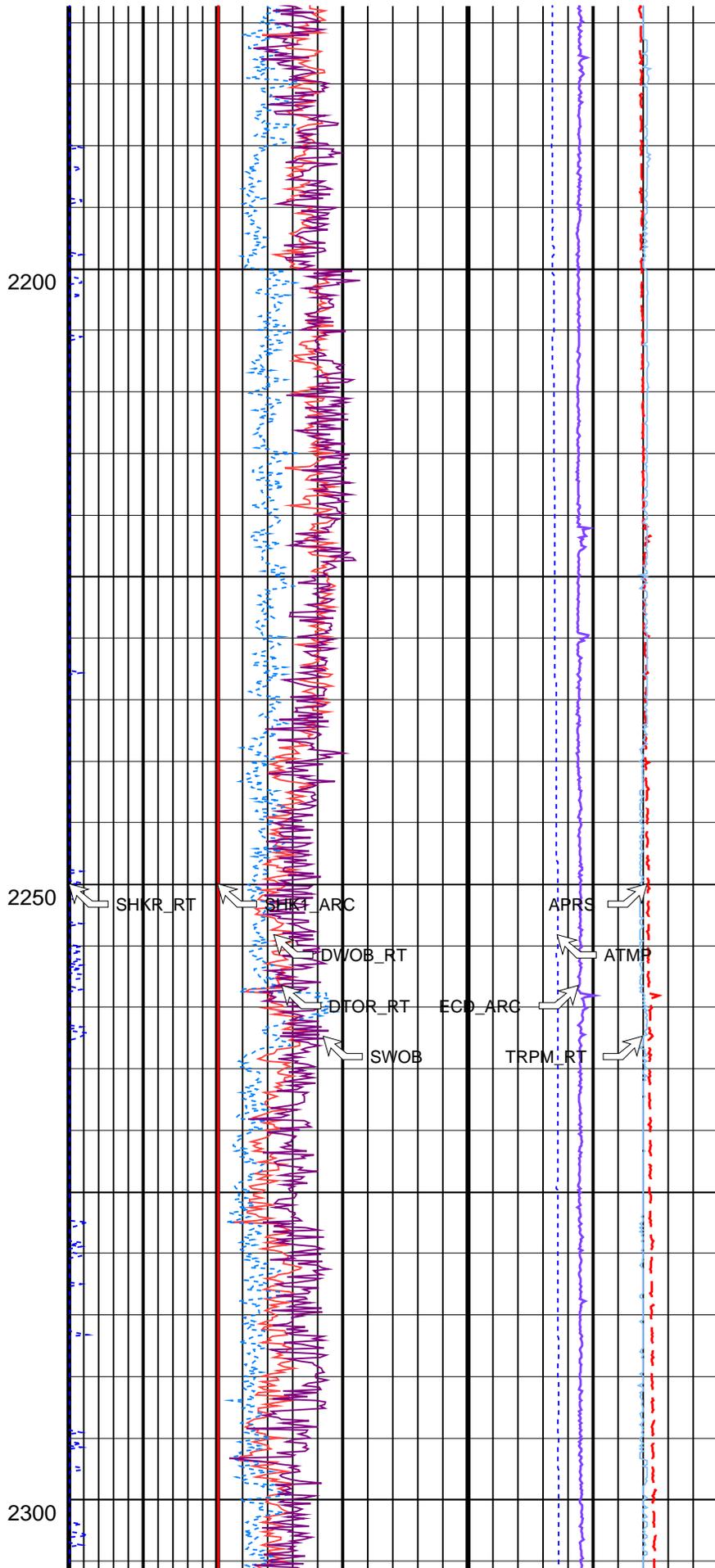
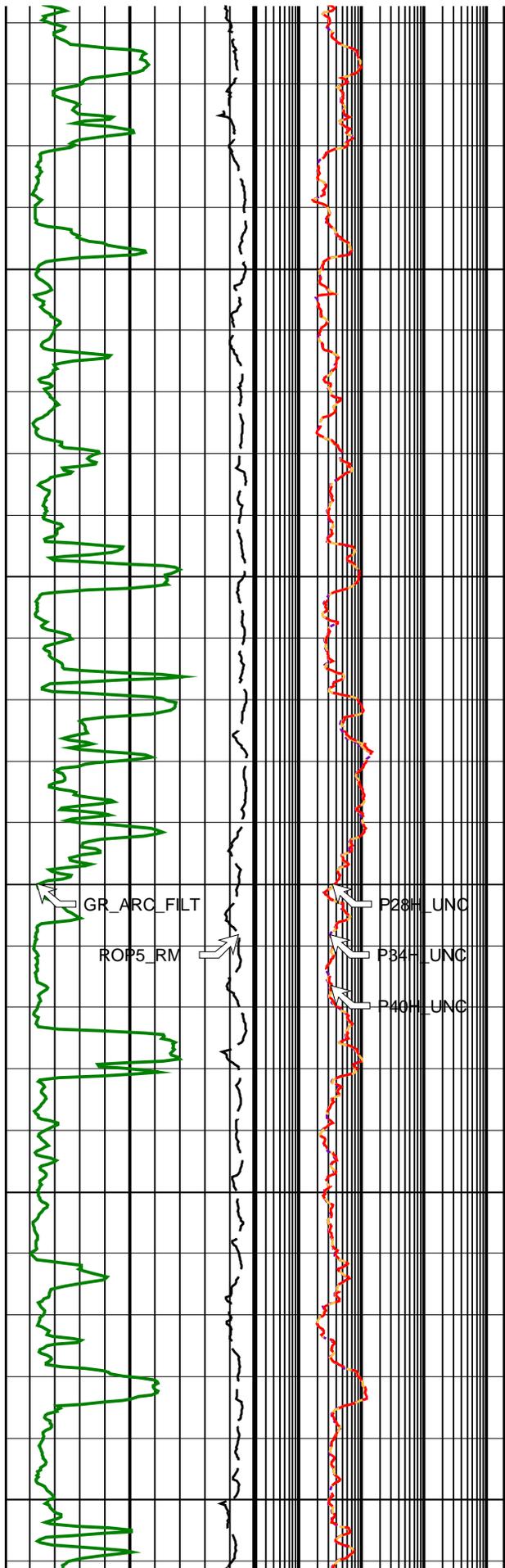


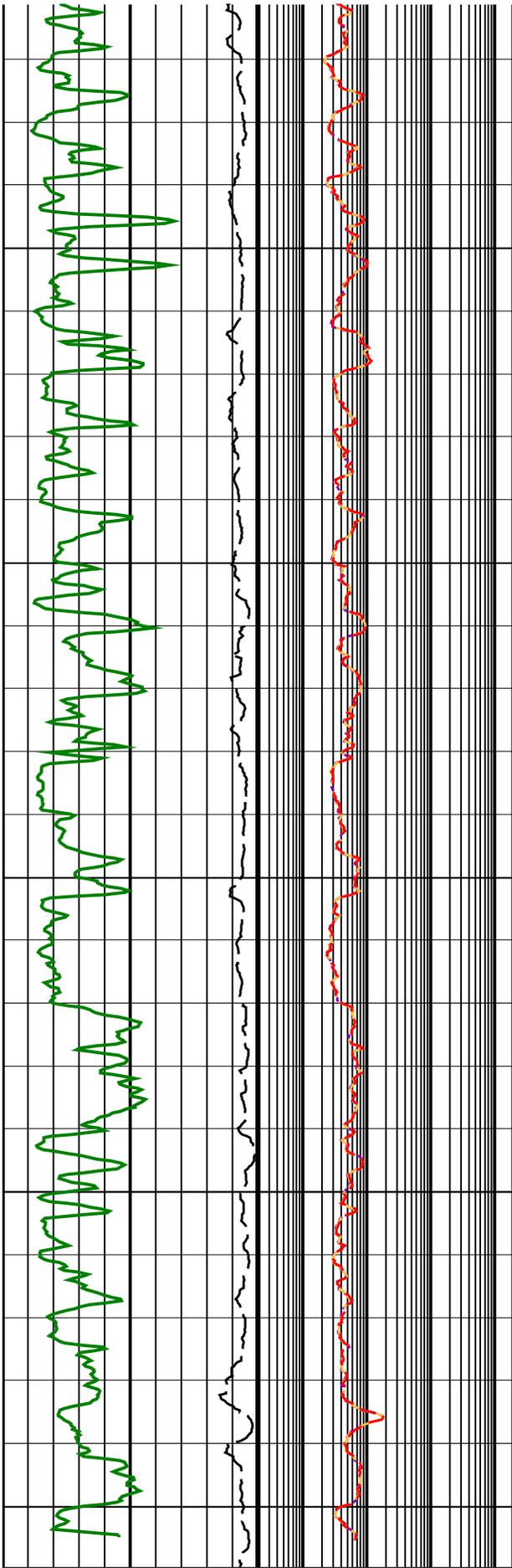
2050

2100

2150



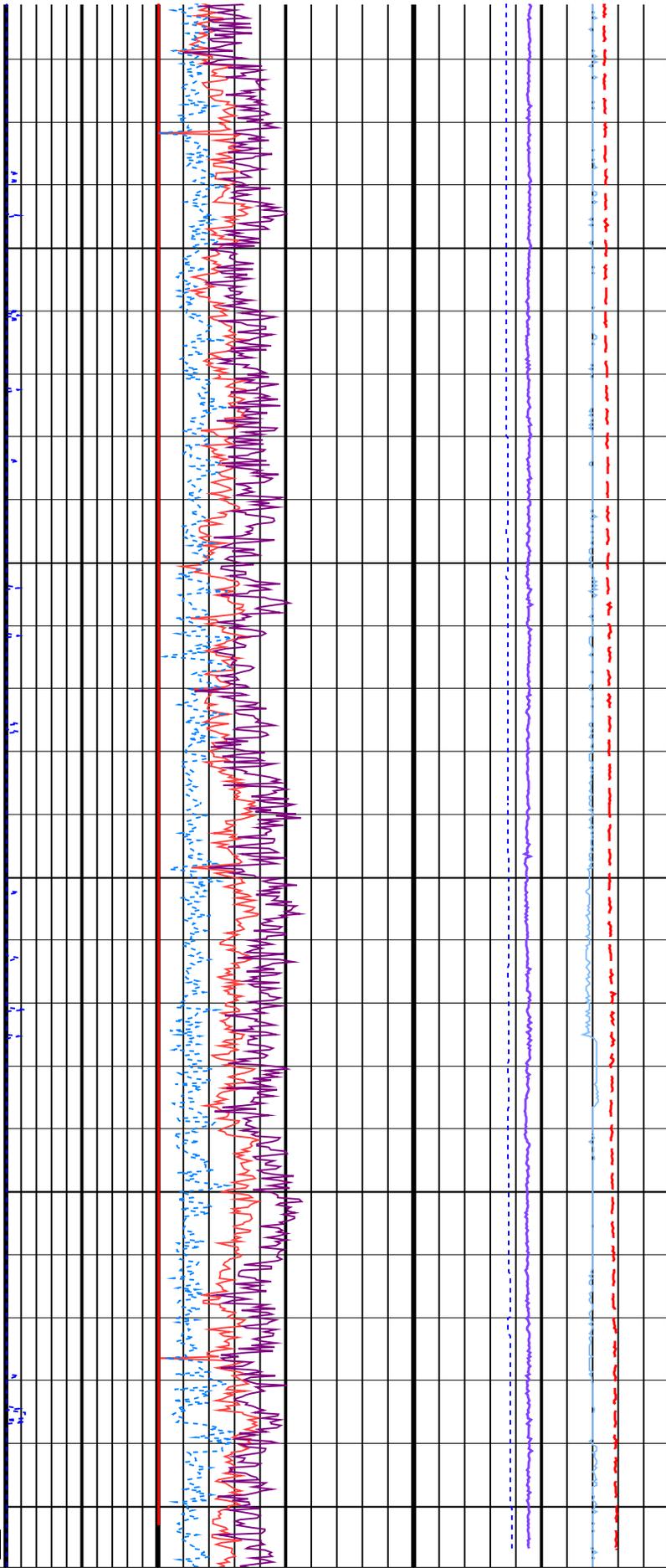




TD at 2430m.

2350

2400



Rate of Penetration, Averaged over Last 5ft

ARC Non-BH Corr Phase-Shift Resistivity

MWD Shock Rate (SHKR_

ARC Average Tool

Annulus Pressure (APRS)

13	508.10	0.22	183.67	29.00	508.09	-7.37	-7.37	7.15	10.27	135.87	0.13	MS	-
14	537.10	0.18	205.51	29.00	537.09	-7.47	-7.47	7.13	10.33	136.33	0.03	MS	-
15	560.10	0.13	125.20	23.00	560.09	-7.52	-7.52	7.14	10.36	136.49	0.09	MS	-
16	623.90	0.45	124.14	63.80	623.89	-7.70	-7.70	7.40	10.68	136.13	0.05	MS	-
17	652.80	0.42	116.52	28.90	652.79	-7.81	-7.81	7.59	10.89	135.82	0.02	MS	-
18	681.70	0.49	120.36	28.90	681.69	-7.92	-7.92	7.79	11.11	135.47	0.03	MS	-
19	710.70	0.51	109.34	29.00	710.69	-8.03	-8.03	8.02	11.35	135.02	0.03	MS	-
20	739.80	0.62	110.62	29.10	739.79	-8.12	-8.12	8.29	11.61	134.42	0.04	MS	-
21	768.70	0.79	99.81	28.90	768.69	-8.21	-8.21	8.63	11.92	133.57	0.07	MS	-
22	797.80	0.73	96.47	29.10	797.78	-8.27	-8.27	9.01	12.23	132.52	0.03	MS	-
23	826.90	0.71	102.56	29.10	826.88	-8.33	-8.33	9.38	12.54	131.61	0.03	MS	-
24	855.80	0.58	113.58	28.90	855.78	-8.43	-8.43	9.68	12.84	131.02	0.06	MS	-
25	884.70	0.50	169.10	28.90	884.68	-8.61	-8.61	9.84	13.07	131.17	0.18	MS	-
26	913.50	0.39	172.08	28.80	913.48	-8.83	-8.83	9.88	13.25	131.78	0.04	MS	-
27	942.60	0.10	201.84	29.10	942.58	-8.95	-8.95	9.88	13.33	132.16	0.11	MS	-
28	971.70	0.10	134.56	29.10	971.68	-8.99	-8.99	9.89	13.37	132.27	0.04	MS	-
29	1000.80	0.12	143.17	29.10	1000.78	-9.03	-9.03	9.93	13.42	132.30	0.01	MS	-
30	1029.90	0.19	237.08	29.10	1029.88	-9.08	-9.08	9.91	13.44	132.52	0.08	MS	-

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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	1059.00	0.15	220.33	29.10	1058.98	-9.14	-9.14	9.84	13.43	132.88	0.02	MS	-
32	1088.00	0.37	305.43	29.00	1087.98	-9.11	-9.11	9.74	13.34	133.10	0.13	MS	-
33	1116.50	0.39	285.43	28.50	1116.48	-9.03	-9.03	9.57	13.16	133.35	0.05	MS	-
34	1145.50	0.43	350.19	29.00	1145.48	-8.90	-8.90	9.46	12.99	133.26	0.15	MS	-
35	1174.00	0.23	282.58	28.50	1173.97	-8.78	-8.78	9.38	12.85	133.11	0.14	MS	-
36	1203.20	0.28	267.73	29.20	1203.17	-8.77	-8.77	9.26	12.75	133.47	0.03	MS	-
37	1232.50	0.41	270.75	29.30	1232.47	-8.77	-8.77	9.08	12.63	134.02	0.04	MS	-
38	1261.70	0.56	273.94	29.20	1261.67	-8.76	-8.76	8.83	12.44	134.78	0.05	MS	-
39	1290.60	0.65	250.61	28.90	1290.57	-8.81	-8.81	8.54	12.27	135.90	0.09	MS	-
40	1319.60	0.58	232.53	29.00	1319.57	-8.95	-8.95	8.26	12.18	137.29	0.07	MS	-
41	1348.80	0.40	236.73	29.20	1348.77	-9.10	-9.10	8.06	12.16	138.45	0.06	MS	-
42	1378.00	0.44	196.58	29.20	1377.97	-9.26	-9.26	7.95	12.20	139.37	0.10	MS	-
43	1406.60	0.39	315.22	28.60	1406.57	-9.30	-9.30	7.85	12.17	139.84	0.25	MS	-
44	1435.70	0.22	329.68	29.10	1435.67	-9.18	-9.18	7.75	12.01	139.84	0.06	MS	-
45	1464.50	0.74	239.16	28.80	1464.47	-9.23	-9.23	7.56	11.93	140.67	0.27	MS	-
46	1493.00	0.49	244.45	28.50	1492.96	-9.37	-9.37	7.29	11.88	142.12	0.09	MS	-
47	1522.30	0.27	290.71	29.30	1522.26	-9.40	-9.40	7.11	11.79	142.89	0.12	MS	-
48	1551.30	0.54	354.50	29.00	1551.26	-9.24	-9.24	7.04	11.62	142.72	0.17	MS	-
49	1580.60	0.73	23.01	29.30	1580.56	-8.93	-8.93	7.10	11.41	141.54	0.12	MS	-
50	1609.70	0.52	2.07	29.10	1609.66	-8.63	-8.63	7.17	11.22	140.27	0.11	MS	-
51	1629.00	0.60	320.28	19.30	1628.96	-8.47	-8.47	7.11	11.06	139.97	0.21	MS	-
52	1644.90	0.82	304.70	15.90	1644.86	-8.34	-8.34	6.97	10.86	140.12	0.18	MS	-
53	1712.56	1.32	331.60	67.66	1712.51	-7.38	-7.38	6.20	9.63	139.96	0.10	MWD	6-axis
54	1771.96	2.31	281.29	59.40	1771.88	-6.54	-6.54	4.70	8.05	144.31	0.30	MWD	6-axis
55	1858.15	2.75	285.30	86.19	1857.98	-5.65	-5.65	1.00	5.74	169.97	0.05	MWD	6-axis
56	1892.08	2.74	285.94	33.93	1891.88	-5.22	-5.22	-0.56	5.25	186.18	0.01	MWD	6-axis
57	1982.51	3.40	279.36	90.43	1982.18	-4.19	-4.19	-5.29	6.75	231.63	0.08	MWD	6-axis
58	2069.37	3.67	272.00	86.86	2068.87	-3.67	-3.67	-10.61	11.23	250.91	0.06	MWD	6-axis
59	2217.19	4.06	267.99	147.82	2216.35	-3.69	-3.69	-20.57	20.89	259.83	0.03	MWD	6-axis
60	2314.68	4.18	272.34	97.49	2313.59	-3.67	-3.67	-27.57	27.81	262.43	0.03	MWD	6-axis

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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
61	2430.00	4.18	272.34	115.32	2428.61	-3.32	-3.32	-35.96	36.12	264.72	0.00	MWD	Proj

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Company: Woodside Energy Limited

Well: Geographe-1 Exploration

Field: Permit VIC/P43

Rig: Ocean Bounty
State: Victoria

IDEAL services from Anadrill

VISION APWD / IWOB Log
Measured Depth
Scale 1:500

Schlumberger