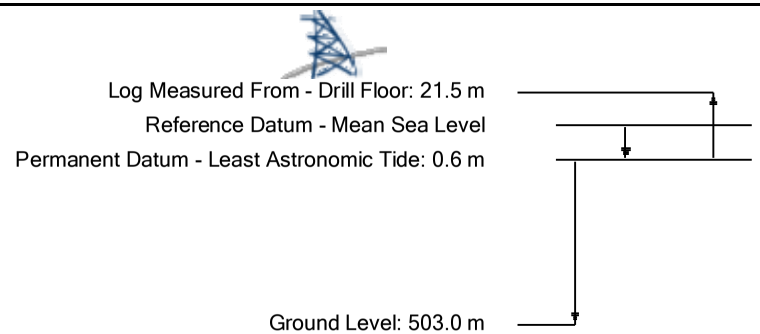
Schlumberger

VISION* Service
12.25" Section
FIELD PRINT

Company:	Woodside Energy Ltd
Well:	Somerset-1
Field:	T34P
Rig Name:	Ocean Patriot
State:	Tasmania
Country:	Australia

Latitude:	39° 20' 36.76" S	UWID:	n.a
Longitude:	142° 44' 56.14" E	Rig Name:	Ocean Patriot
Block:	n.a	Rig Type:	Semi-Submersible

FL: Otway Basin
FL1:
FL2:



Acquisition Dates:	24 Oct 09 to 02 Nov 09
Print Interval:	1275.0(m) to 2912.5(m)
Index Types:	True Vertical Depth
Index Scales:	1:500
Depth Source:	Driller's Depth
Depth Sensor:	DES
Conveyance:	Drill Pipe
Print Type:	Field
Spud Date:	19-Oct-2009

Other Services:
PERFORM Drilling
Directional Surveys
Shock & Vibrations
Annular Pressure & Temperature

Disclaimer

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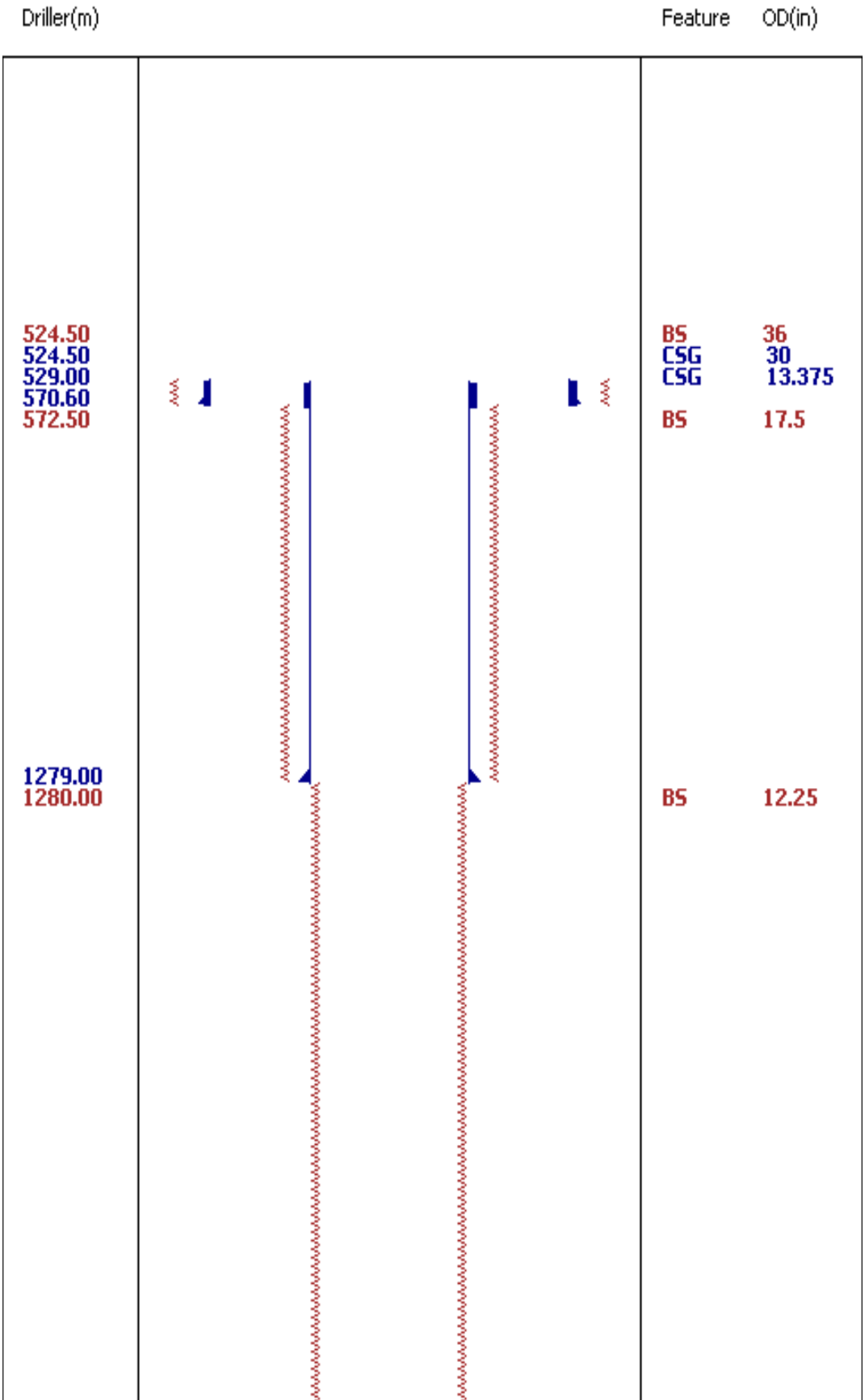
Well Sketch


Driller(m)
Feature
OD(in)
524.50
524.50
529.00
570.60
572.50
1279.00
1280.00
BS
CSG
CSG
BS
BS
36
30
13.375
17.5
12.25

Borehole Size/Casing Record

Bit						
Bit Size (in)	36	17.5	12.25			
Bottom Driller (m)	572.5	1280	2912.69			
Casing						
Size (in)	30	13.375				
Weight (kg/m)	169.64	71.92				
Inner Diameter (in)	29.296	12.696				
Grade	H40	N80				
Top Driller (m)	524.5	529				
Bottom Driller (m)	570.6	1279				

Operational Run Summary

Parameter (unit)	**Run 2**					
Date Log Started	24-Oct-2009					
Time Log Started	13:36:13					
Date Log Finished	02-Nov-2009					
Time Log Finished	09:45:09					
Bit Size (in)	12.250					
Bit Start Depth (m)	1274.72					
Bit Stop Depth (m)	2912.69					
Top Log Interval (m)	1279.00					
Bottom Log Interval (m)	2903.38					
Max Hole Deviation (deg)	1.54					
Azimuth of Max Deviation (deg)	198.58					
Logging Unit Number	OLU-KC-0702					
Logging Unit Location						
Recorded By	Marganda/Mewan/Russell					
Witnessed By	David/Todd					
Service Order Number	09ASQ0030					

Borehole Fluids

Parameter (unit)	**Run 2**					
Type Fluid	Water					
Max Recorded Temperature (degC)	109					
Source of Sample	Active Tank					
Salinity (ppm)	Zoned					
Density (g/cm3)	Zoned					

Density (g/cm3)	Zoned					
Viscosity (s)						
Fluid Loss (cm3)						
pH	Zoned					
Source Rmf						
Source Rmc	Pressed					
Rm @ Meas Temp (ohm.m@degC)	Zoned					
Rmf @ Meas Temp (ohm.m@degC)	Zoned					
Rmc @ Meas Temp (ohm.m@degC)	Zoned					
Rm @ BHT (ohm.m@degC)	Zoned					
Rmf @ BHT (ohm.m@degC)	Zoned					
Rmc @ BHT (ohm.m@degC)	Zoned					

Zoned Borehole Fluids

Run 2

Parameter	Value	Start
Salinity	70000	10/24/2009 1:36:13 PM
Salinity	65000	10/25/2009 8:14:10 AM
Salinity	52000	10/26/2009 4:24:53 AM
Salinity	56000	10/27/2009 5:09:59 AM
Density	1.29	10/24/2009 1:36:13 PM
Density	1.26	10/26/2009 2:52:31 AM
Density	1.3	10/27/2009 5:10:29 AM
pH	8.5	10/24/2009 1:36:13 PM
pH	10.2	10/25/2009 8:14:10 AM
pH	10	10/26/2009 2:52:07 AM
pH	9	10/26/2009 4:24:53 AM
Meas Temp	19.4	10/24/2009 1:36:13 PM
Meas Temp	18.8	10/26/2009 4:24:53 AM
Meas Temp	20	10/27/2009 1:55:15 AM
Meas Temp	19.4	10/24/2009 1:36:13 PM
Meas Temp	18.9	10/26/2009 4:24:53 AM
Meas Temp	19.7	10/27/2009 1:55:15 AM
Rm @ Meas Temp	0.08 @ 19.4	10/24/2009 1:36:13 PM
Rm @ Meas Temp	0.09 @ 18.8	10/26/2009 4:24:53 AM
Rm @ Meas Temp	0.10 @ 20	10/27/2009 1:55:15 AM
Rmf @ Meas Temp	0.06 @ 19.4	10/24/2009 1:36:13 PM
Rmf @ Meas Temp	0.08 @ 18.9	10/26/2009 4:24:53 AM
Rmf @ Meas Temp	0.08 @ 19.7	10/27/2009 1:55:15 AM
Rmc @ Meas Temp	0.09 @ 20	10/24/2009 1:36:13 PM
Rmc @ Meas Temp	0.14 @ 20	10/26/2009 4:24:53 AM
Rmc @ Meas Temp	0.18 @ 20	10/27/2009 1:55:15 AM
Rm @ BHT	0.04 @ 62	10/24/2009 1:36:13 PM
Rm @ BHT	0.06 @ 62	10/26/2009 4:24:53 AM
Rm @ BHT	0.10 @ 62	10/27/2009 1:52:45 AM
Rm @ BHT	0.07 @ 62	10/27/2009 1:55:15 AM
Rmf @ BHT	0.03 @ 62	10/24/2009 1:36:13 PM
Rmf @ BHT	0.05 @ 62	10/26/2009 4:24:53 AM
Rmf @ BHT	0.08 @ 62	10/27/2009 1:53:02 AM
Rmf @ BHT	0.06 @ 62	10/27/2009 1:55:15 AM

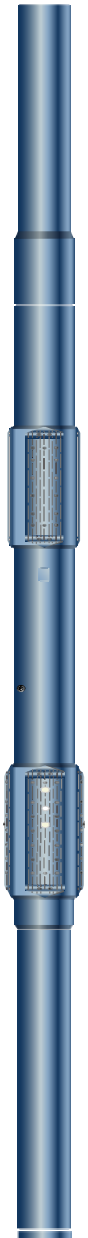
Rmf @ BHT	0.06 @ 62	10/27/2009 1:55:15 AM
Rmc @ BHT	0.04 @ 62	10/24/2009 1:36:13 PM
Rmc @ BHT	0.13 @ 62	10/26/2009 4:24:53 AM
Rmc @ BHT	0.18 @ 62	10/27/2009 1:46:10 AM
Rmc @ BHT	0.12 @ 62	10/27/2009 1:55:15 AM

Remarks and Equipment Summary

Run 2: Toolstring

Cum. Length 39.36
SADN8:42709

sadnVISION825



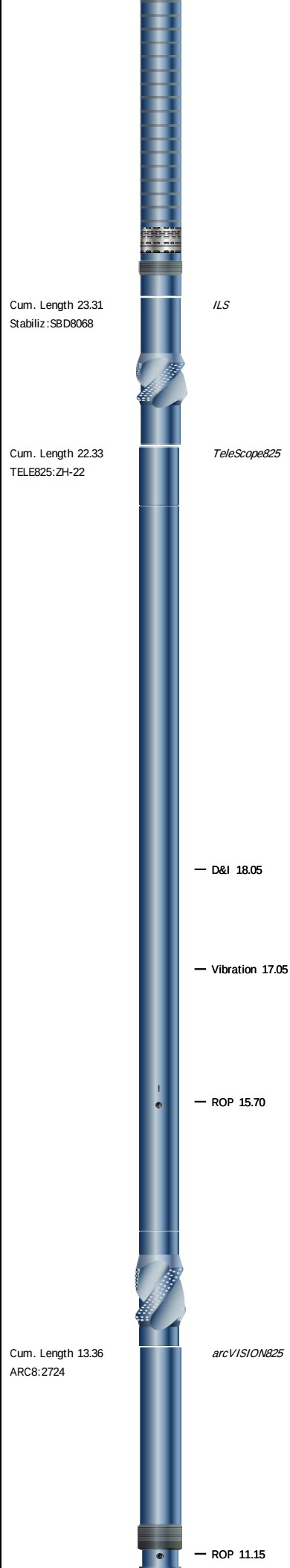
Cum. Length 30.51
Svr Sub::OSS0809

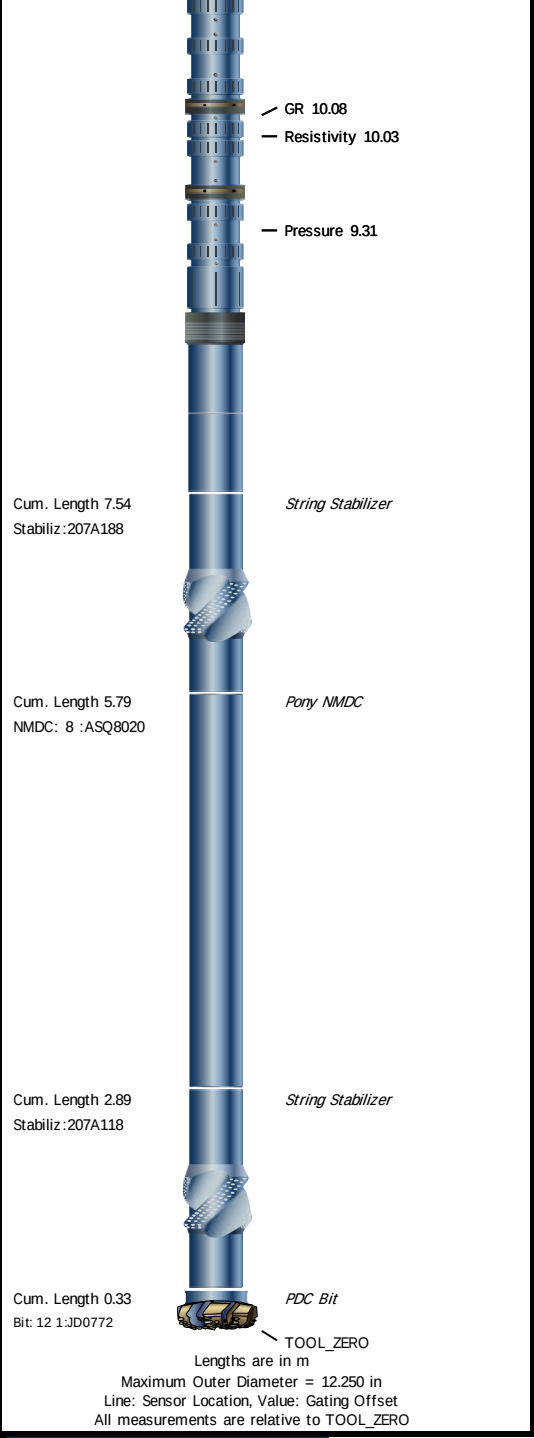
Saver Sub

Cum. Length 30.19
SONICVISIO:E1620

sonicVISION825

Run 2: Remarks


Cum. Length 23.31
Stabiliz:SBD8068
ILS
Cum. Length 22.33
TELE825:ZH-22
TeleScope825
D&I 18.05
Vibration 17.05
ROP 15.70
Cum. Length 13.36
ARC8:2724
arcVISION825
ROP 11.15



Survey Record

Survey Calculation

Method :	Minimum Radius of Curvature	DLS Method :	Lubinski
North Reference :	Grid North	Total Correction Formula :	Magnetic Dec - Grid Convergence
Grid Convergence :	-1.11 deg		

Rig Location

Latitude :	39° 20' 36.76" S	Longitude :	142° 44' 56.14" E

Tie In Point

Measured Depth:	0.00 m	Inclination:	0.00 deg	Azimuth:	0.00 deg
True Vertical Depth:	0.00 m	North Displacement:	0.00 m	East Displacement:	0.00 m
N/-S VSec Origin:	0.00 m	E/-W VSec Origin:	0.00 m	Vertical Section Azimuth:	0.00 deg

D&I Inits Computed and Values Used - Run 1

Geomagnetic Model :	BGGM 2009	Geomagnetic Date :	20-Oct-2009
Computed Location B :	61074.75 nT +/- 300.00nT	Used Location B :	61074.75 nT +/- 300.00nT
Computed Location G :	999.45 mgn +/- 2.50mgn	Used Location G :	999.45 mgn +/- 2.50mgn

Computed Magnetic Dip :	-70.38 deg +/- 0.45deg	Used Magnetic Dip :	-70.38 deg +/- 0.45deg
Computed Magnetic Dec :	11.03 deg	Used Magnetic Dec :	11.03 deg
Computed Total Correction :	12.14 deg	Used Total Correction :	12.14 deg

D&I Inits Computed and Values Used - Run 2

Geomagnetic Model :	BGGM 2009	Geomagnetic Date :	24-Oct-2009
Computed Location B :	61074.62 nT +/- 300.00nT	Used Location B :	61074.62 nT +/- 300.00nT
Computed Location G :	999.45 mgn +/- 2.50mgn	Used Location G :	999.45 mgn +/- 2.50mgn
Computed Magnetic Dip :	-70.38 deg +/- 0.45deg	Used Magnetic Dip :	-70.38 deg +/- 0.45deg
Computed Magnetic Dec :	11.03 deg	Used Magnetic Dec :	11.03 deg
Computed Total Correction :	12.14 deg	Used Total Correction :	12.14 deg

Survey Quality Index

10 : DMAG-Corrected

Seq	MD (m)	Incl (deg)	Azim (deg)	Course (m)	TVD (m)	V Sec (m)	N/ -S (m)	E/ -W (m)	Closure (m)	at Azi (deg)	DLS deg/30m	Tool Type	QI	CI
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	TIP		
2	524.50	0.00	0.00	524.50	524.50	0.00	0.00	0.00	0.00	90.00	0.00	Manual	10	
3	599.08	0.58	120.59	74.58	599.08	-0.19	-0.19	0.32	0.38	120.59	0.23	Manual	10	
4	684.35	0.43	120.90	85.27	684.35	-0.58	-0.58	0.97	1.13	120.68	0.05	Manual	10	
5	713.04	0.53	133.63	28.69	713.03	-0.72	-0.72	1.16	1.37	121.94	0.15	Manual	10	
6	972.34	0.91	95.08	259.30	972.31	-1.73	-1.73	4.08	4.43	113.02	0.07	Manual	10	
7	1001.37	0.91	84.18	29.03	1001.34	-1.73	-1.73	4.54	4.86	110.87	0.18	Manual	10	
8	1059.78	0.95	75.47	58.41	1059.74	-1.56	-1.56	5.47	5.69	105.94	0.08	Manual	10	
9	1090.08	0.78	51.04	30.30	1090.04	-1.37	-1.37	5.87	6.03	103.12	0.40	Manual	10	
10	1117.31	0.70	46.36	27.23	1117.27	-1.14	-1.14	6.14	6.24	100.50	0.11	Manual	10	
11	1203.66	0.94	59.46	86.35	1203.61	-0.41	-0.41	7.13	7.14	93.32	0.11	Manual	10	
12	1251.88	0.96	60.07	48.22	1251.82	-0.01	-0.01	7.82	7.82	90.08	0.01	Manual	10	
13	1395.50	0.46	85.91	143.62	1395.43	0.63	0.63	9.44	9.46	86.18	0.12	Manual	10	
14	1423.48	0.37	96.26	27.98	1423.41	0.63	0.63	9.64	9.66	86.27	0.13	Manual	10	
15	1450.69	0.34	103.29	27.21	1450.62	0.60	0.60	9.80	9.82	86.49	0.06	Manual	10	
16	1739.63	0.23	147.23	288.94	1739.56	-0.08	-0.08	10.95	10.95	90.44	0.02	Manual	10	
17	1885.00	0.40	189.10	145.37	1884.92	-0.83	-0.83	11.03	11.06	94.31	0.06	Manual	10	
18	2029.52	0.77	194.71	144.52	2029.44	-2.27	-2.27	10.70	10.94	101.96	0.08	Manual	10	
19	2086.65	0.83	198.58	57.13	2086.56	-3.03	-3.03	10.47	10.90	106.14	0.04	Manual	10	
20	2201.88	0.95	193.38	115.23	2201.78	-4.75	-4.75	9.99	11.06	115.44	0.04	Manual	10	
21	2288.48	0.98	181.58	86.60	2288.37	-6.19	-6.19	9.80	11.59	122.28	0.07	Manual	10	
22	2316.76	1.03	184.29	28.28	2316.64	-6.69	-6.69	9.77	11.84	124.37	0.07	Manual	10	
23	2345.02	1.10	185.02	28.26	2344.90	-7.21	-7.21	9.73	12.11	126.53	0.08	Manual	10	
24	2374.64	1.28	185.91	29.62	2374.51	-7.82	-7.82	9.67	12.44	128.96	0.18	Manual	10	
25	2403.54	1.36	187.90	28.90	2403.40	-8.48	-8.48	9.59	12.80	131.48	0.10	Manual	10	
26	2518.96	1.54	189.36	115.42	2518.78	-11.37	-11.37	9.15	14.60	141.17	0.05	Manual	10	
27	2546.16	1.43	188.77	27.20	2545.98	-12.07	-12.07	9.04	15.08	143.15	0.12	Manual	10	
28	2604.71	1.38	184.64	58.55	2604.51	-13.49	-13.49	8.87	16.15	146.67	0.06	Manual	10	
29	2661.70	1.39	181.51	56.99	2661.48	-14.87	-14.87	8.80	17.27	149.38	0.04	Manual	10	
30	2691.87	1.33	180.69	30.17	2691.64	-15.58	-15.58	8.78	17.89	150.58	0.06	Manual	10	
31	2719.22	1.31	179.24	27.35	2718.99	-16.21	-16.21	8.79	18.44	151.55	0.04	Manual	10	
32	2748.22	1.24	175.26	29.00	2747.98	-16.86	-16.86	8.82	19.02	152.39	0.12	Manual	10	
33	2776.91	1.12	171.85	28.69	2776.66	-17.44	-17.44	8.88	19.57	153.02	0.15	Manual	10	
34	2806.83	1.09	179.52	29.92	2806.58	-18.02	-18.02	8.92	20.11	153.65	0.15	Manual	10	
35	2834.17	1.10	172.01	27.34	2833.91	-18.54	-18.54	8.96	20.59	154.19	0.16	Manual	10	
36	2863.33	1.17	161.51	29.16	2863.07	-19.10	-19.10	9.10	21.15	154.53	0.23	Manual	10	

Run 2

Software Version

Acquisition System	Version
MaxWell	1.2.8706.0
Framework Patch	FWK-BGC-20090918-1.2.8706.1030
Application Patch	APL-BGC-DnM-1.2.8706.1021

Computation	Description	Version
ULTRASON_PROC	Ultrasonic Processing, ADN	1.2.8706.0
NEUTRON_PROC	Neutron Processing, ADN	1.2.8706.0
ARC8GammaRayComputation	ARC8 Gamma Ray Computation Package for both Real-time and Recorded Mode	1.2.8706.1021
DENSITY_PROC	Density Processing, ADN	1.2.8706.0
ARC8PressureComputatio	ARC8 Pressure Computation Package for both Real-time and Recorded Mode	1.2.8706.1021
ARCResistivity	ARC Resistivity Computation Package for ARC Tool Family	1.2.8706.1021

Tool Elements	Description	Software Version	Firmware Version
ARDC	ARC 8.25 Inch Tool Drilling Collar	1.2.8706.1021	V9.4B
DRILLING_SURFACE	DRILLING_SURFACE	1.2.8706.1030	
ADNP	Azimuth Neutron Detector Package	1.2.8706.0	V8.3A
NDUS	Azimuth Uson Detector Package	1.2.8706.0	V8.3A
ADDP	Azimuth Density Detector Package	1.2.8706.0	V8.3A

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Acquisition Start Date	Acquisition Start Time
Run 2	Drilling	Down	1274.72 m	2912.69 m	24-Oct-2009	19:34:49

All depths are referenced to toolstring zero

Log

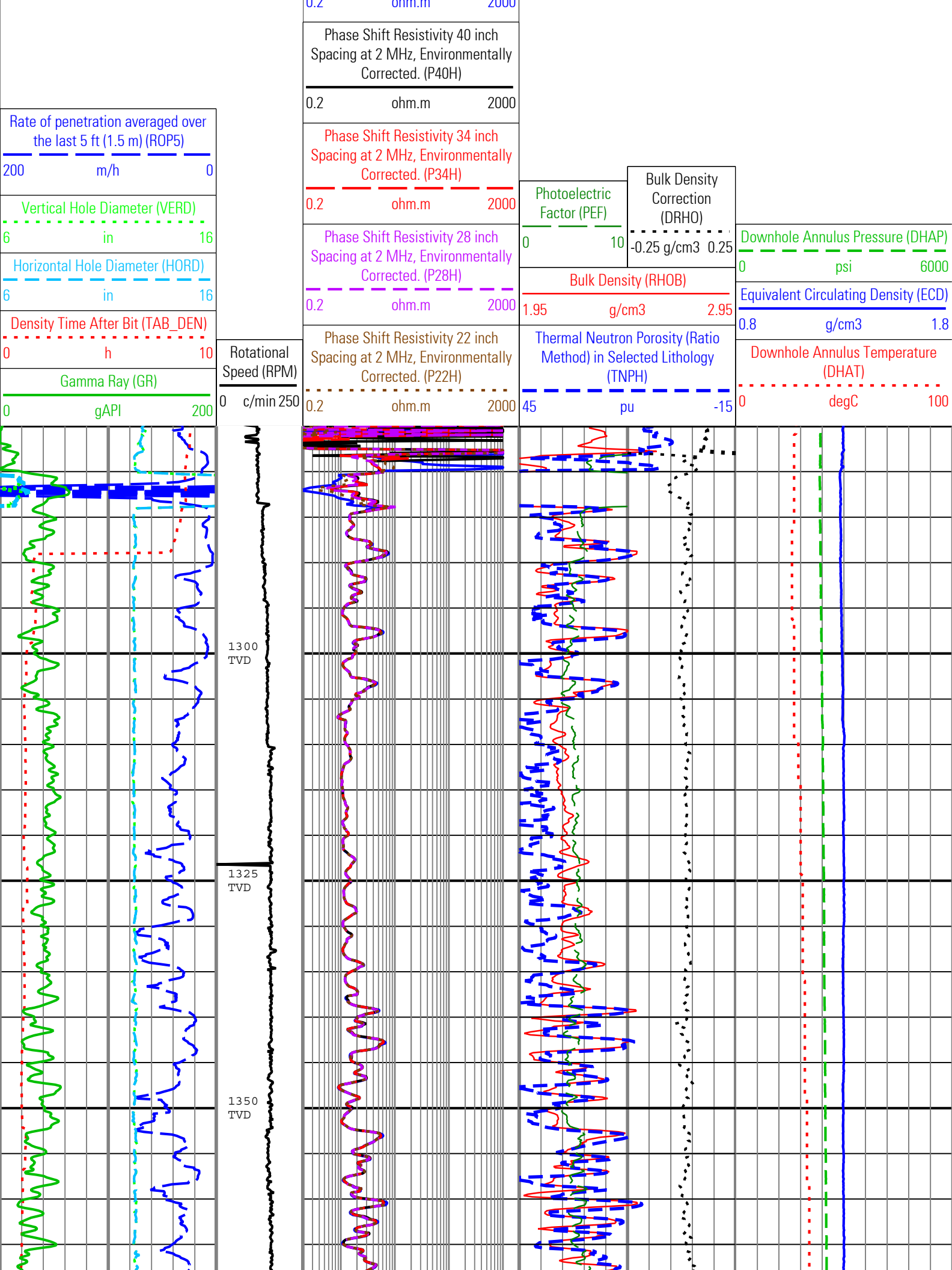
Run 2: Drilling E2100D83-971D-4474-8039-4856F35B64ED

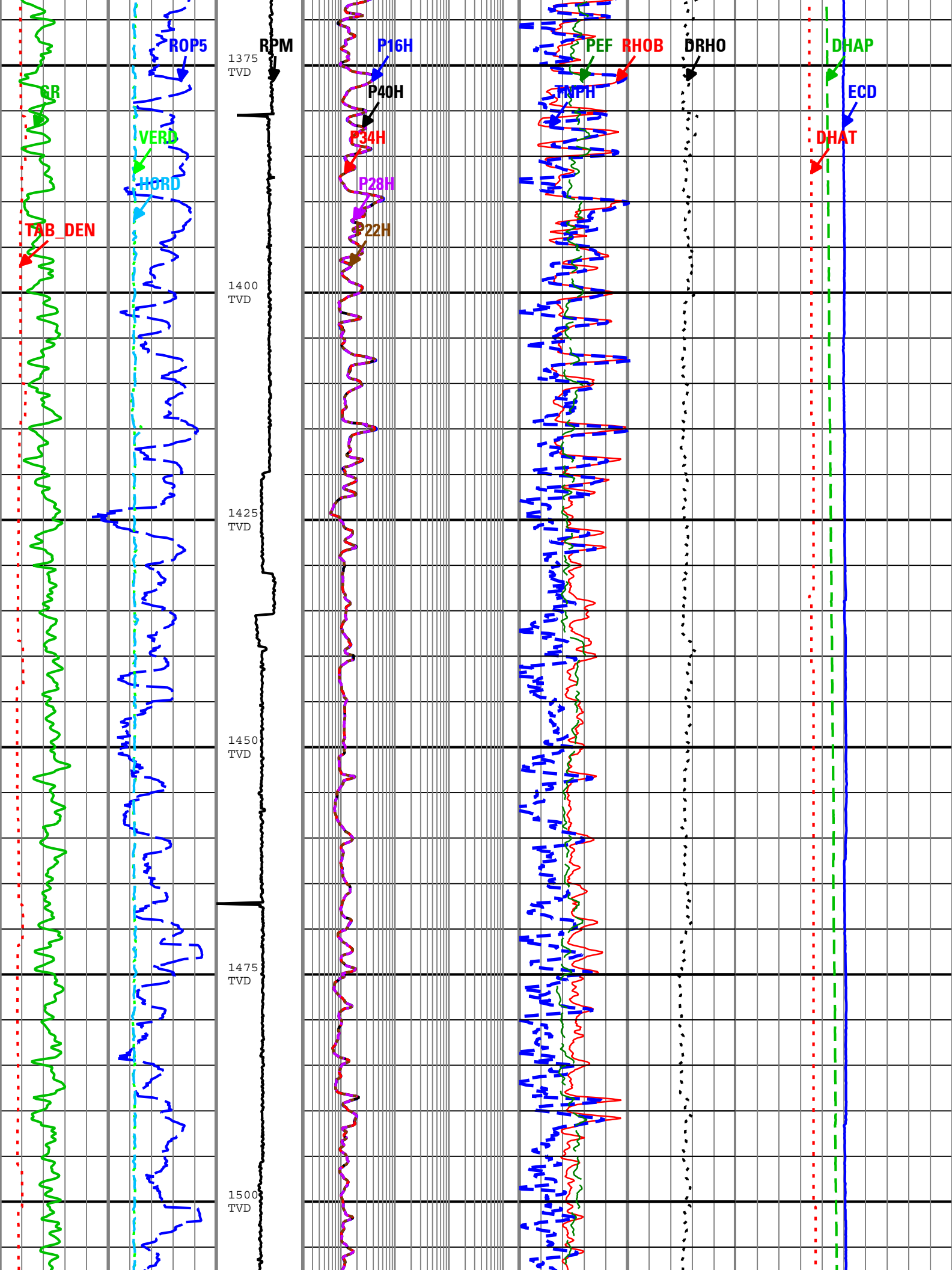
Description: ARC + VDN + sonicVISION Format: Log (VISION Service RM - Woodside) Index Scale: 1:500 Index Unit: m Index Type: TVD Creation Date: 03-Nov-2009 04:27:28

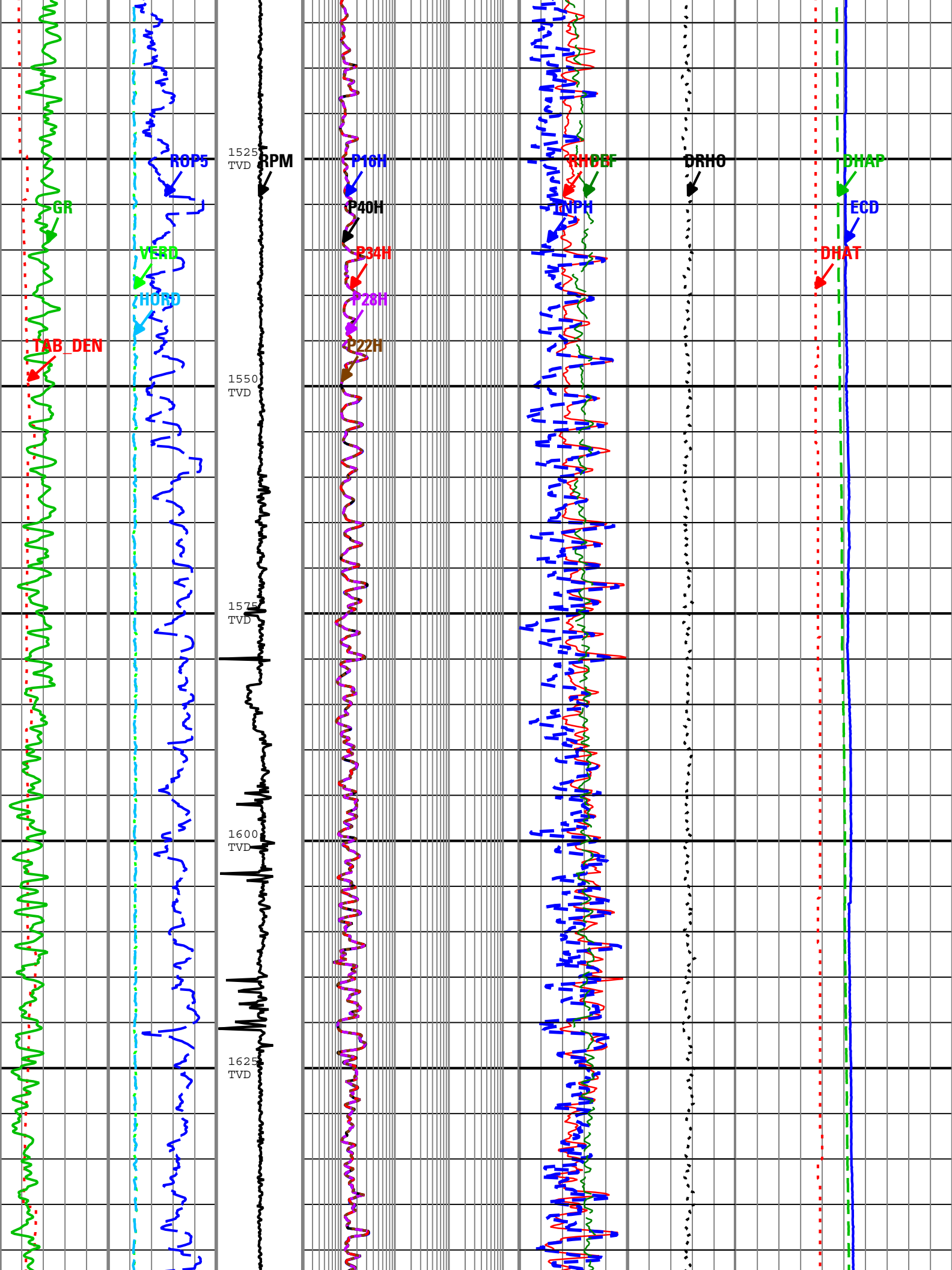
DHAP	ARC8:ARC8	6in	- RM
DHAT	ARC8:ARC8	6in	- RM
DRHO	SADN8:SADN8:ADDP	6in	- RM
ECD	ARC8:ARC8:ARDC	6in	- RM
GR	ARC8:ARC8:ARDC	6in	- RM
HORD	SADN8:SADN8:NDUS	6in	- RM
P16H	ARC8:ARC8:ARDC	6in	- RM
P22H	ARC8:ARC8:ARDC	6in	- RM
P28H	ARC8:ARC8:ARDC	6in	- RM
P34H	ARC8:ARC8:ARDC	6in	- RM
P40H	ARC8:ARC8:ARDC	6in	- RM
PEF	SADN8:SADN8:ADDP	6in	- RM
RHOB	SADN8:SADN8:ADDP	6in	- RM
ROP5	DRILLING_SURFACE	6in	- RT
RPM	SADN8:SADN8	6in	- RM
TAB_DEN	SADN8:SADN8:ADDP	6in	
TNPH	SADN8:SADN8:ADNP	6in	- RM
VERD	SADN8:SADN8:NDUS	6in	- RM

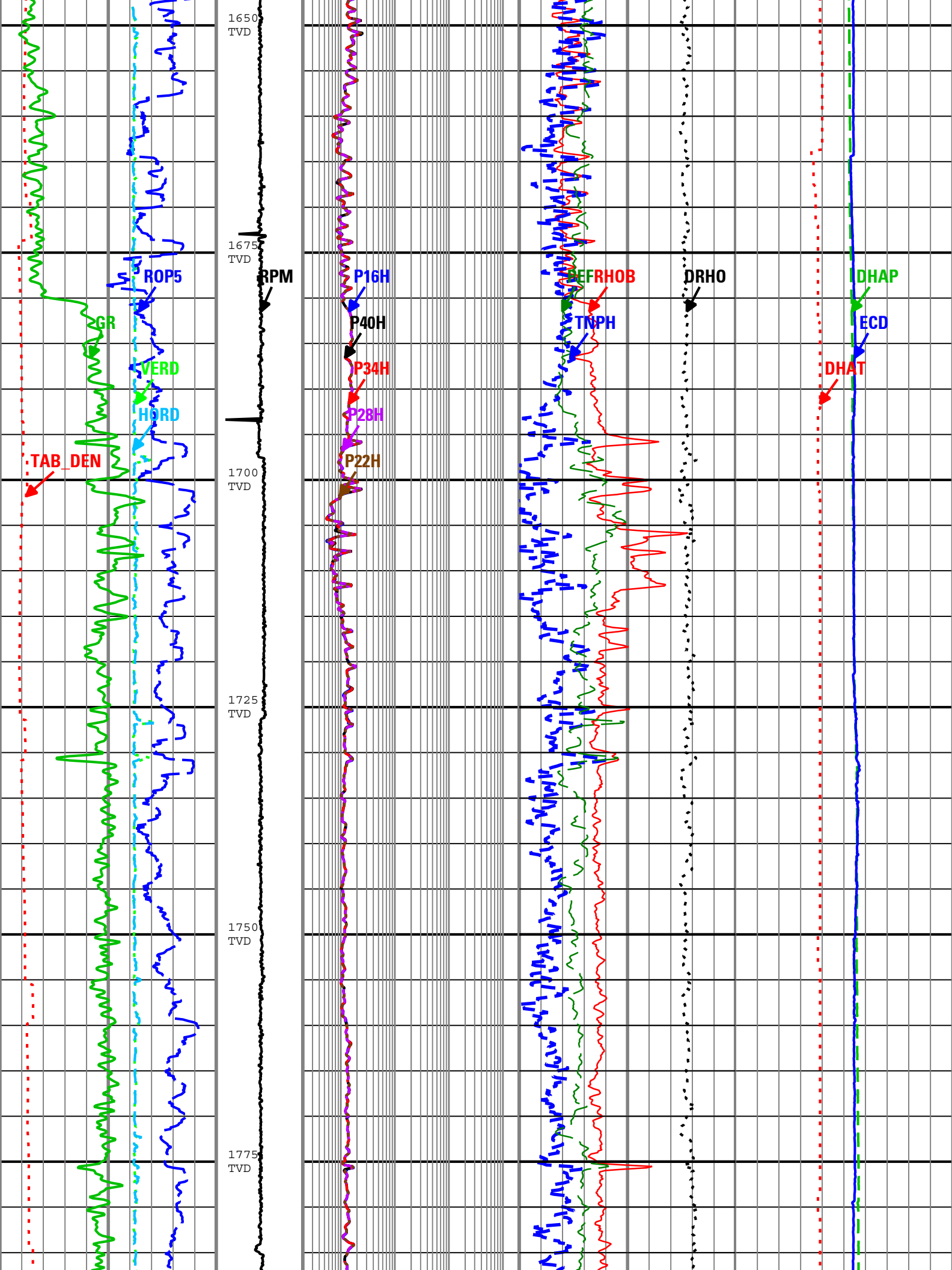
Phase Shift Resistivity 16 inch Spacing at 2 MHz, Environmentally Corrected. (P16H)

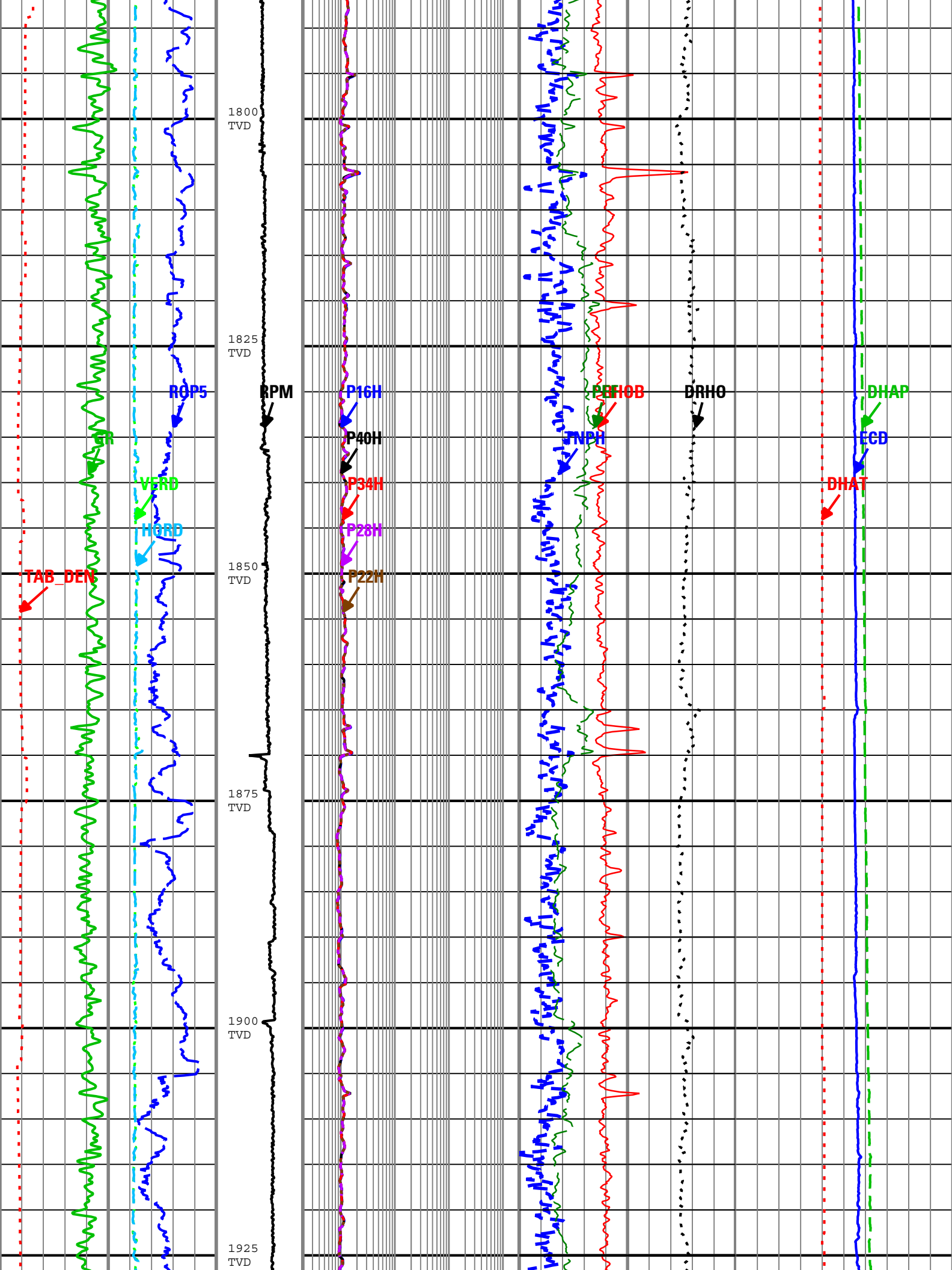
0.2 ohm.m 2000


Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5)
200 m/h 0
Vertical Hole Diameter (VERD)
6 in 16
Horizontal Hole Diameter (HORD)
6 in 16
Density Time After Bit (TAB_DEN)
0 h 10
Gamma Ray (GR)
0 gAPI 200
Rotational Speed (RPM)
0 c/min 250
0.2 ohm.m 2000
Phase Shift Resistivity 40 inch Spacing at 2 MHz, Environmentally Corrected. (P40H)
0.2 ohm.m 2000
Phase Shift Resistivity 34 inch Spacing at 2 MHz, Environmentally Corrected. (P34H)
0.2 ohm.m 2000
Phase Shift Resistivity 28 inch Spacing at 2 MHz, Environmentally Corrected. (P28H)
0.2 ohm.m 2000
Phase Shift Resistivity 22 inch Spacing at 2 MHz, Environmentally Corrected. (P22H)
0.2 ohm.m 2000
Photoelectric Factor (PEF)
0 10
Bulk Density Correction (DRHO)
-0.25 g/cm3 0.25
Bulk Density (RHOB)
1.95 g/cm3 2.95
Thermal Neutron Porosity (Ratio Method) in Selected Lithology (TNPH)
45 pu -15
Downhole Annulus Pressure (DHAP)
0 psi 6000
Equivalent Circulating Density (ECD)
0.8 g/cm3 1.8
Downhole Annulus Temperature (DHAT)
0 degC 100
1300 TVD
1325 TVD
1350 TVD


ROP5
RPM
P16H
PEF
RHOB
DRHO
DHAP
GR
P40H
TNPH
ECD
VERD
P34H
DHAT
HORD
P28H
TAB_DEN
P22H
1375
TVD
1400
TVD
1425
TVD
1450
TVD
1475
TVD
1500
TVD


ROP5
GR
VERD
HORD
TAB_DEN
1525
TVD
RPM
P16H
P40H
P34H
P28H
P22H
1550
TVD
1575
TVD
1600
TVD
1625
TVD
RHOBF
NPH
DRHO
DHAP
ECD
DHAT


1650
TVD
1675
TVD
1700
TVD
1725
TVD
1750
TVD
1775
TVD
ROP5
GR
VERD
HORD
TAB_DEN
RPM
P16H
P40H
P34H
P28H
P22H
DEFRHOB
TNPH
DRHO
DHAP
ECD
DHAT


1800
TVD
1825
TVD
1850
TVD
1875
TVD
1900
TVD
1925
TVD
ROP5
RPM
P16H
P40H
P34H
P28H
P22H
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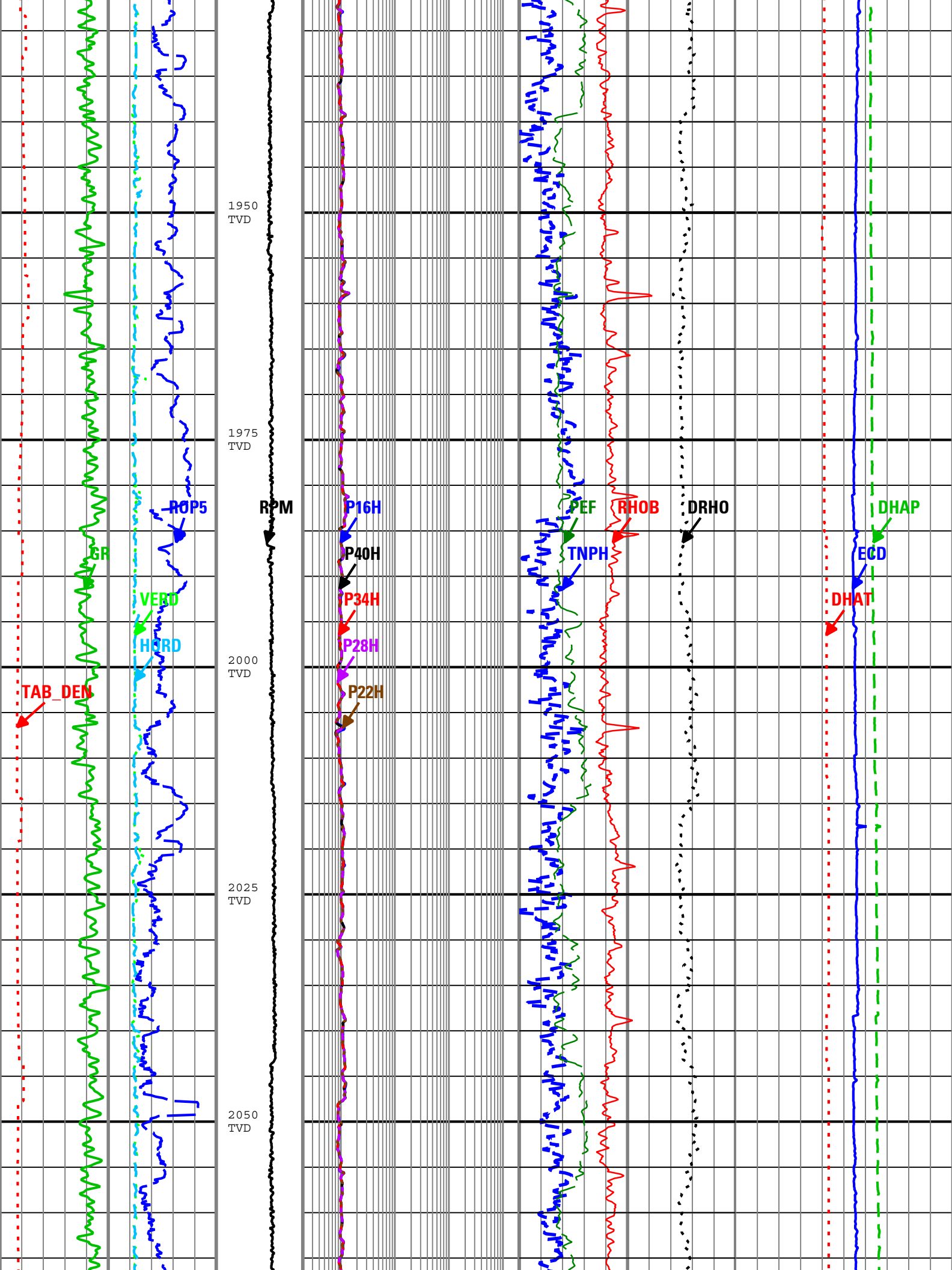
VERD
HORD
TAB_DEN


1950
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TVD
2000
TVD
2025
TVD
2050
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ROP5
RPM
P16H
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RHOB
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DHAP
GR
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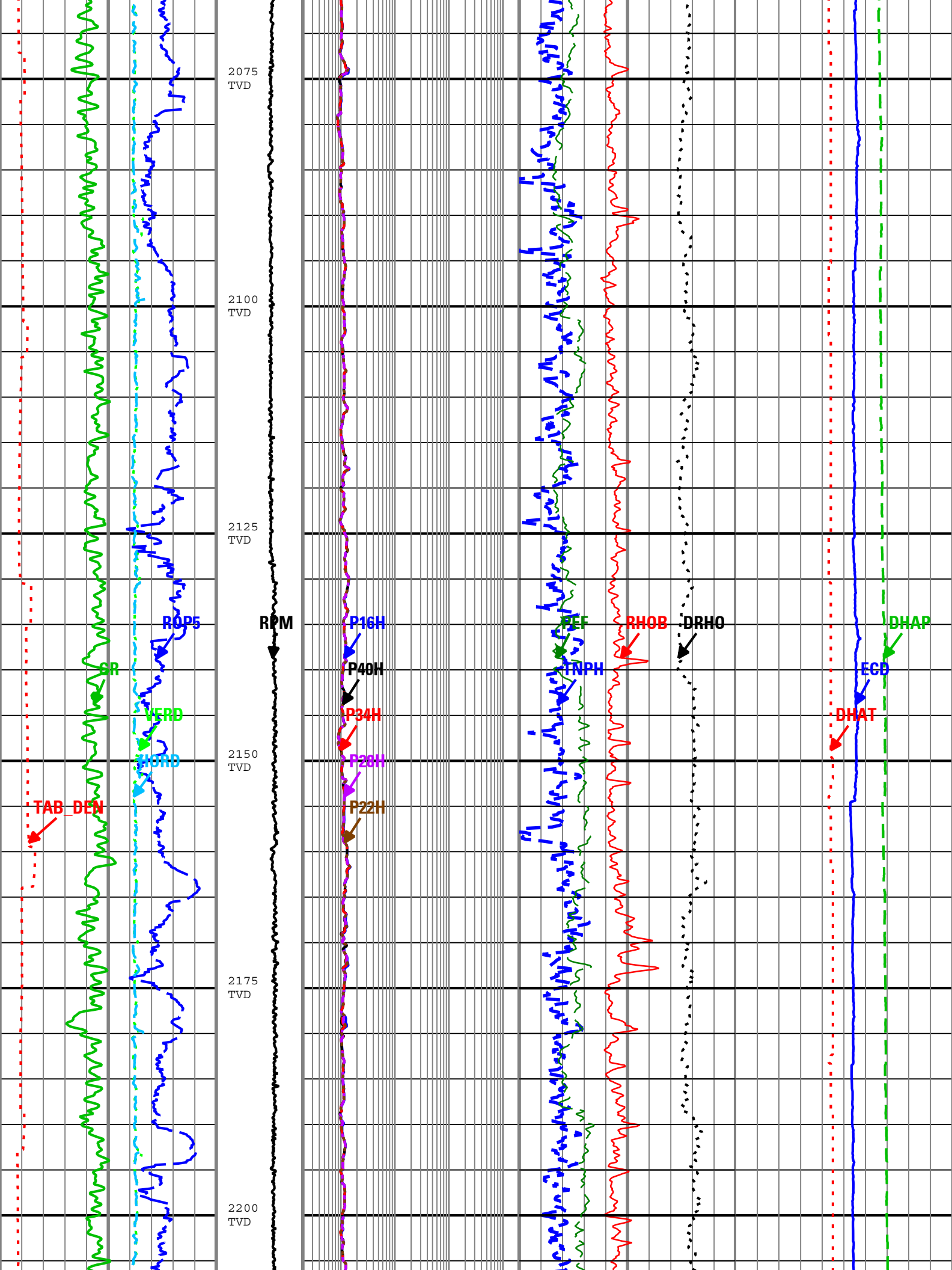
DHAT
HORD
P28H
TAB_DEN
P22H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2100
TVD
2125
TVD
2150
TVD
2175
TVD
2200
TVD
ROP5
GR
VERD
HORD
TAB_DEN
RPM
P16H
P40H
P34H
P26H
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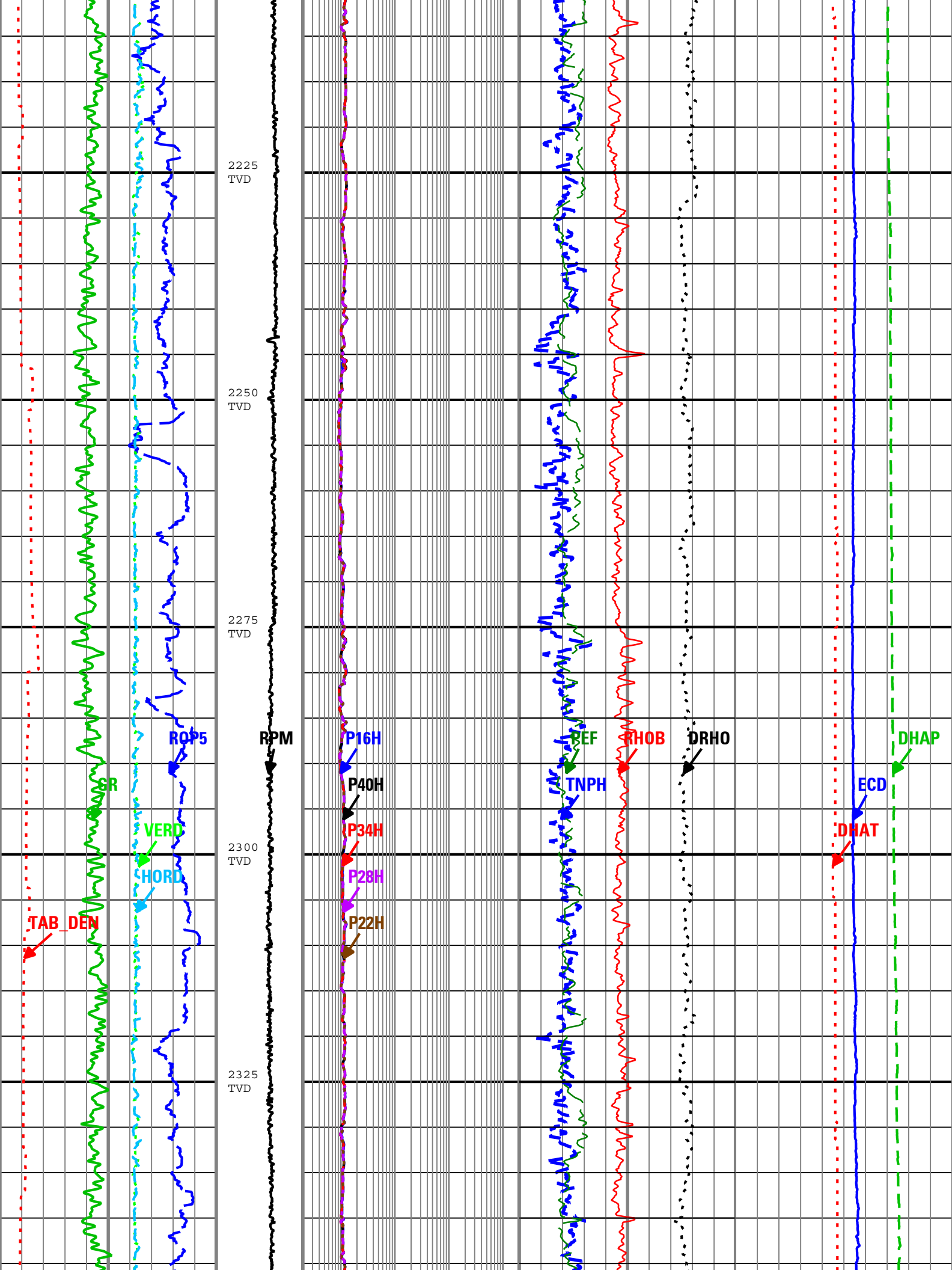
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2275
TVD
2300
TVD
2325
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RPM
P16H
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RHOB
DRHO
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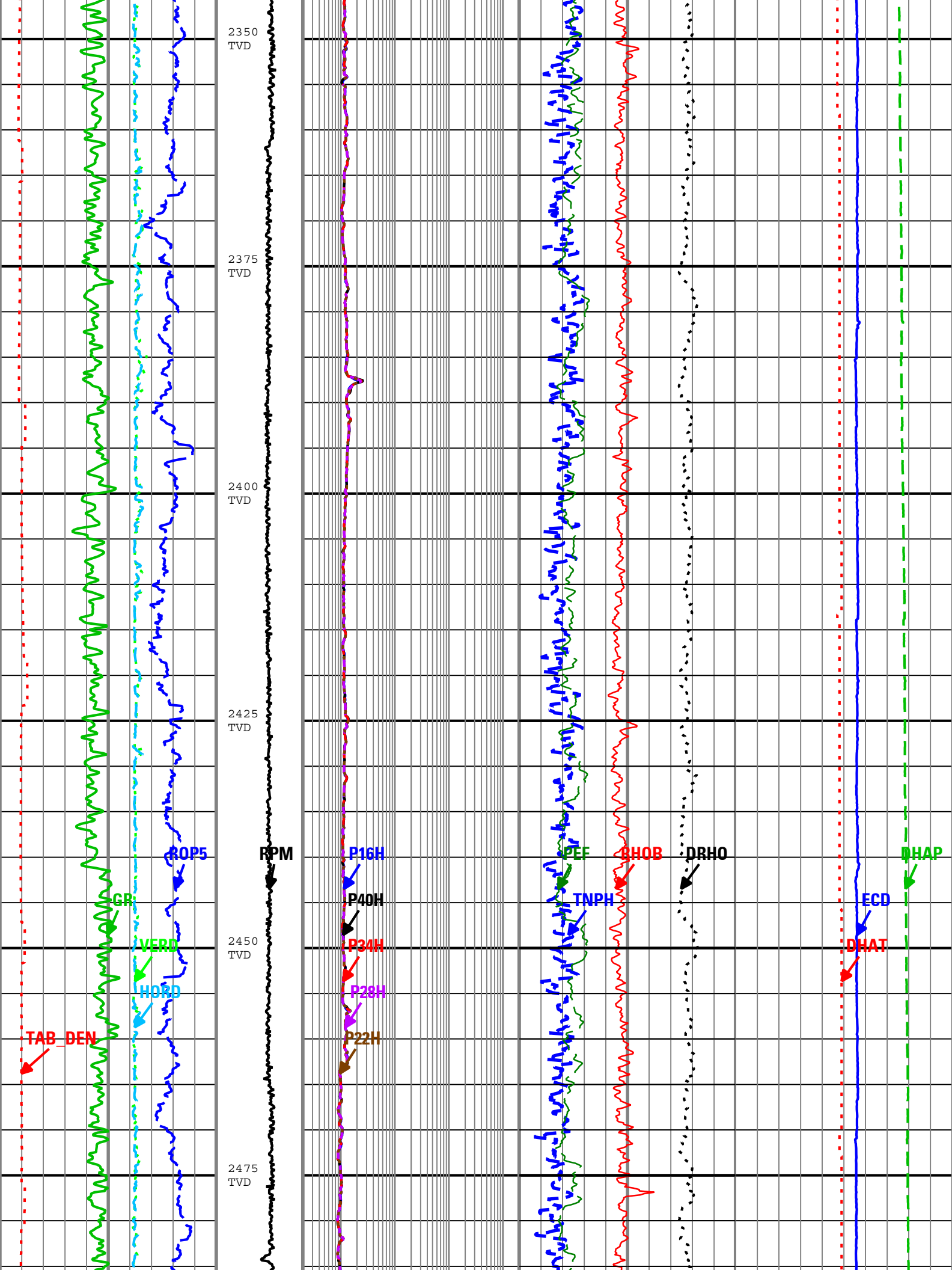
P22H


2350
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2375
TVD
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TVD
2425
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2475
TVD
ROP5
RPM
P16H
PEF
RHOB
DRHO
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VERD
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DHAT
HORD
P28H
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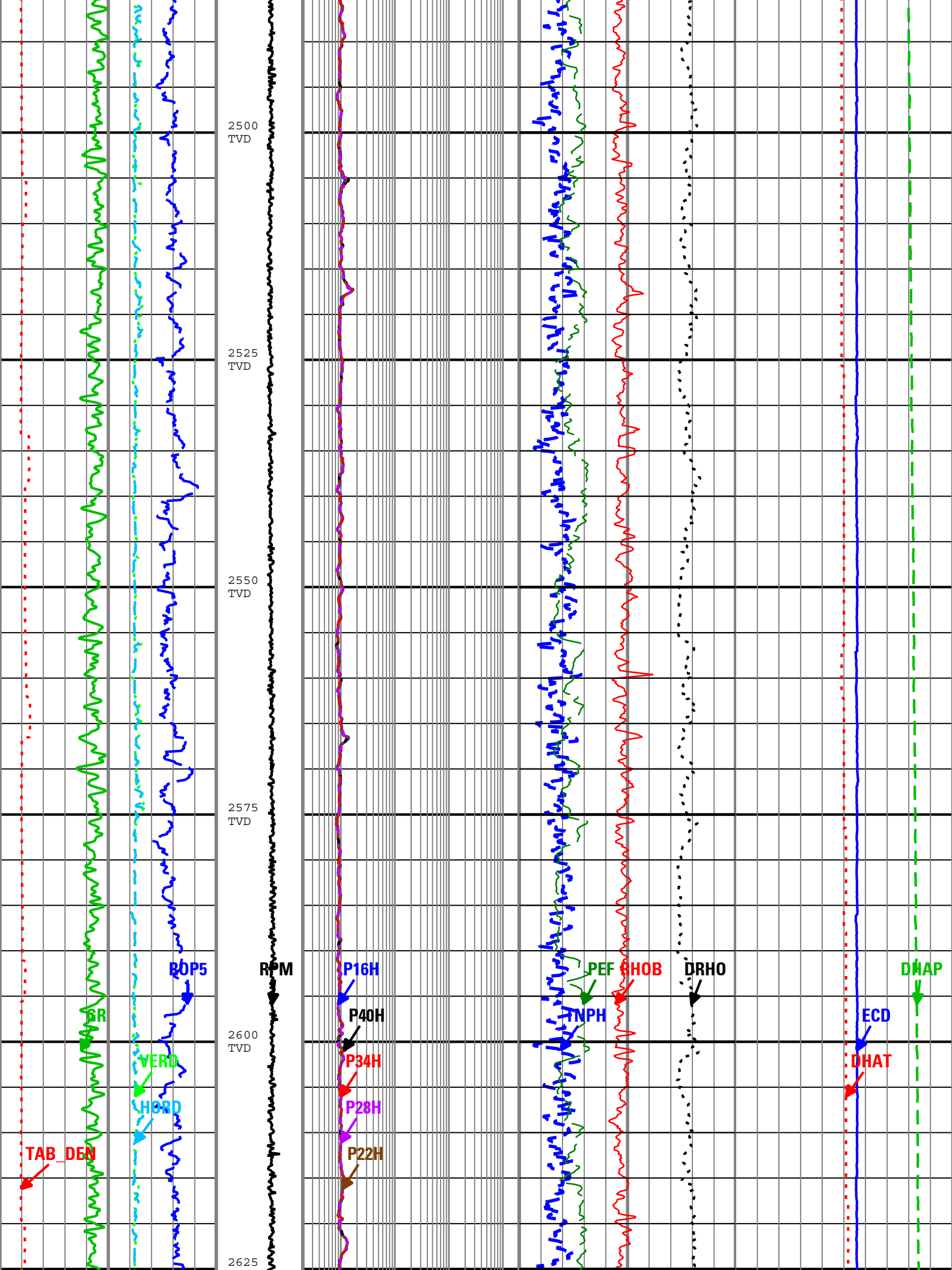
P22H


2500
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TVD
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2625
ROP5
RPM
P16H
PEF
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GR
P40H
TNPH
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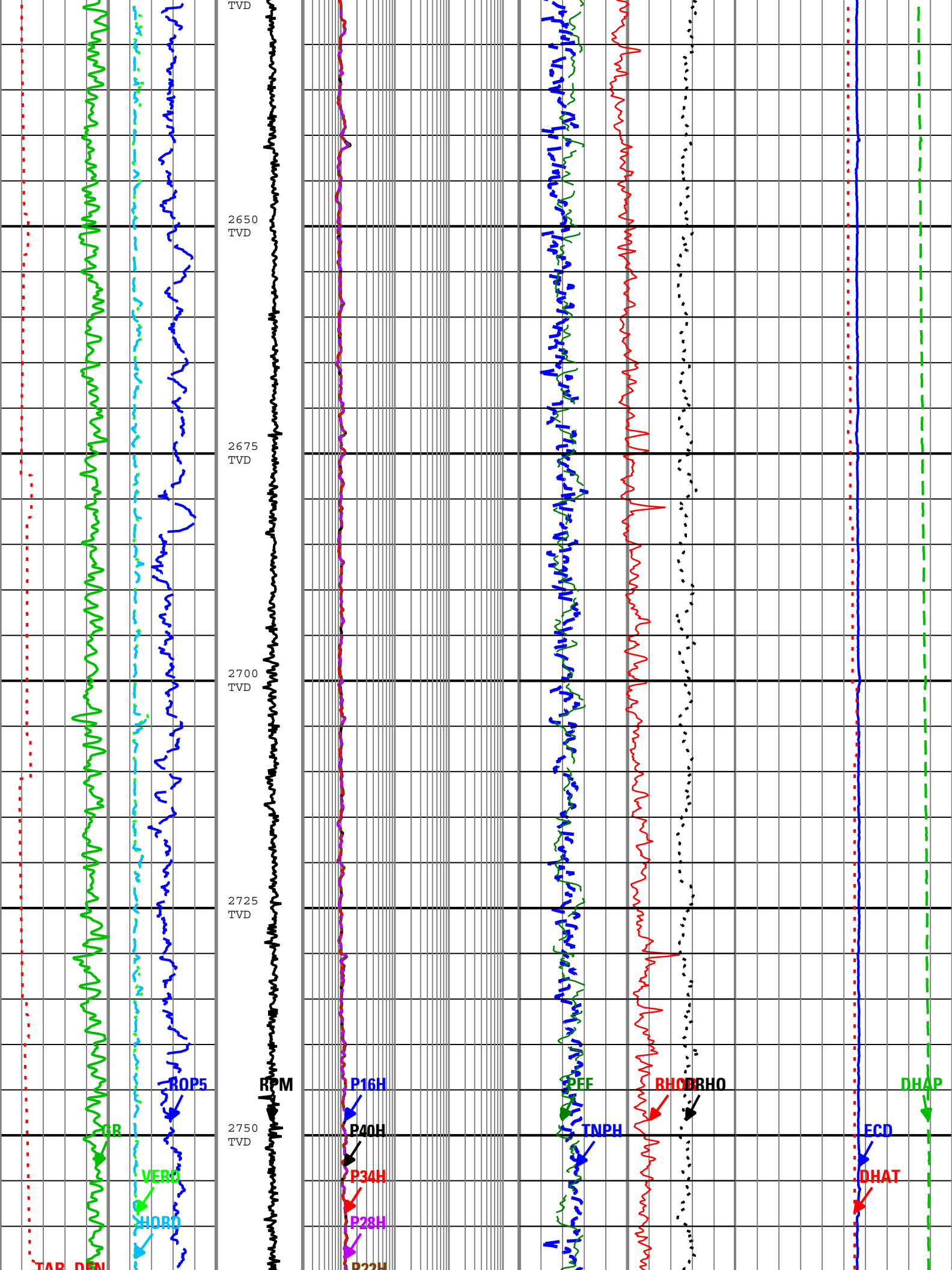
P34H
DHAT
HORD
P28H
TAB_DEN
P22H


TVD
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2675
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2700
TVD
2725
TVD
2750
TVD
ROP5
RPM
P16H
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RHOB
DRHO
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VERD
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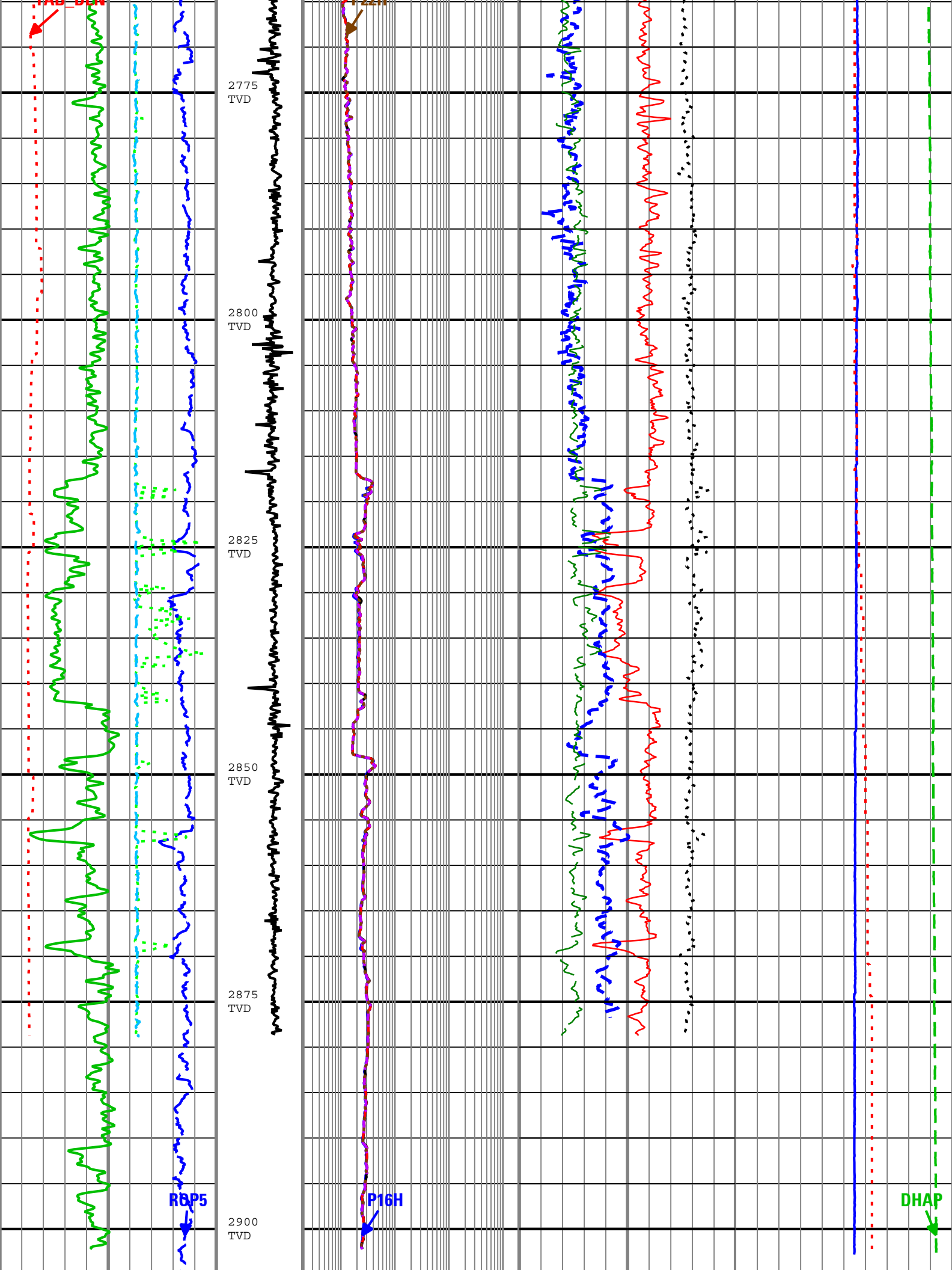
DHAT
HORD
P28H
TAB_DEN
P22H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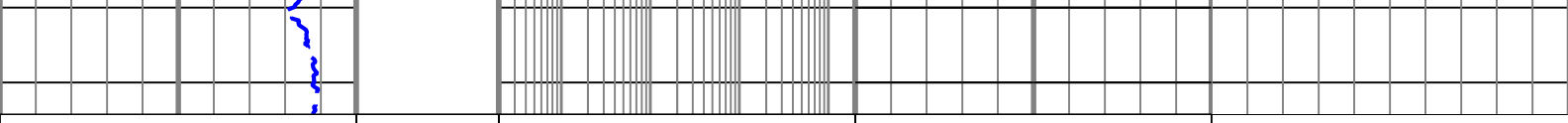
TVD
P16H
DHAP



Description: ARC + VDN + sonicVISION Format: Log (VISION Service RM - Woodside) Index Scale: 1:500 Index Unit: m Index Type: TVD Creation Date: 03-Nov-2009 04:27:28

Channel Processing Parameters

Parameter	Description	ToolPath	Value	Unit
BHK	Drilling Fluid Potassium Concentration	Borehole	Time Zoned	%
BHT	Bottom Hole Temperature	Borehole	62	degC
BS	Bit Size	COMPLETION	Depth Zoned	in
BSAL	Borehole Salinity	Borehole	Time Zoned	ppm
DFD	Drilling Fluid Density	Borehole	Time Zoned	g/cm3
DFT	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	220	us/ft
FLEV	Depth of Drilling Fluid Level to LMF (Log Measured From)	Borehole	2.44	m
GGRD	Geothermal Gradient	Borehole	1.1	degF/100ft
GRSE	Generalized Mud Resistivity Selection	Borehole	Computed (GEN-9)	
GTSE	Generalized Temperature Selection	Borehole	Gradient From Surface	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	LIMESTONE	
MST	Mud Sample Temperature	Borehole	Time Zoned	degC
RHO_SEAWATER	Density of the Sea Water	Borehole	1.02	g/cm3
RMS	Resistivity of Mud Sample	Borehole	Time Zoned	ohm.m
SF_FLAG	Mud Return to Sea Floor (No Riser)?	Borehole	No	
SHT	Surface Hole Temperature	Borehole	10	degC
TD	Total Measured Depth	Borehole	2912	m
TEMP_SEL_ARC	ARC Temperature Selection	ARC8:ARC8:ARDC	Annular	

Depth Zone Parameters

Parameter	Value	Start (m)	Stop (m)
BS	17.5	1275	1279.94
BS	12.25	1279.94	2912.12

All depth are actual.

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (m)	Stop Depth (m)
BHK	5.77	24-Oct-2009 19:34:49	25-Oct-2009 08:14:10	1274.72	1278.41
BHK	5.77	25-Oct-2009 08:14:10	27-Oct-2009 05:09:59	1278.41	2451.68
BHK	4.52	27-Oct-2009 05:09:59	02-Nov-2009 09:45:08	2451.68	2912.69
BSAL	70000	24-Oct-2009 19:34:49	25-Oct-2009 08:14:10	1274.72	1278.41
BSAL	65000	25-Oct-2009 08:14:10	26-Oct-2009 04:24:53	1278.41	1673.78
BSAL	52000	26-Oct-2009 04:24:53	27-Oct-2009 05:09:59	1673.78	2451.68
BSAL	56000	27-Oct-2009 05:09:59	02-Nov-2009 09:45:08	2451.68	2912.69
DFD	1.29	24-Oct-2009 19:34:49	26-Oct-2009 02:52:31	1274.72	1626.54
DFD	1.26	26-Oct-2009 02:52:31	27-Oct-2009 05:10:29	1626.54	2451.68
DFD	1.3	27-Oct-2009 05:10:29	02-Nov-2009 09:45:08	2451.68	2912.69
MST	19.4	24-Oct-2009 19:34:49	26-Oct-2009 04:24:53	1274.72	1673.78
MST	18.8	26-Oct-2009 04:24:53	27-Oct-2009 01:55:15	1673.78	2342.67
MST	20	27-Oct-2009 01:55:15	02-Nov-2009 09:45:08	2342.67	2912.69
RMS	0.08	24-Oct-2009 19:34:49	26-Oct-2009 04:24:53	1274.72	1673.78
RMS	0.09	26-Oct-2009 04:24:53	27-Oct-2009 01:55:15	1673.78	2342.67
RMS	0.1	27-Oct-2009 01:55:15	02-Nov-2009 09:45:08	2342.67	2912.69

All depth are at tool zero.

Tool Control Parameters

Parameter	Description	ToolPath	Value	Unit
OFFBTM_TH	Threshold for deciding whether the bit is off bottom		Time Zoned	m

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (m)	Stop Depth (m)
OFFBTM_TH	0.6	24-Oct-2009 19:34:49	25-Oct-2009 23:15:02	1274.72	1529.56
OFFBTM_TH	0.5	25-Oct-2009 23:15:02	26-Oct-2009 00:11:46	1529.56	1558.04
OFFBTM_TH	0.4	26-Oct-2009 00:11:46	26-Oct-2009 18:26:10	1558.04	2126.79
OFFBTM_TH	0.5	26-Oct-2009 18:26:10	26-Oct-2009 18:26:39	2126.79	2127.1
OFFBTM_TH	0.6	26-Oct-2009 18:26:39	26-Oct-2009 18:36:19	2127.1	2132.63
OFFBTM_TH	0.4	26-Oct-2009 18:36:19	02-Nov-2009 09:45:08	2132.63	2912.69

All depth are at tool zero.

Concise Calibration Record

Run 2: ARC8 : Calibration Resistivity

Primary Set Components	Description	Tool Element	Serial Number
	DC without AIM	ARDC	2724

Calibration Dates	Shop Calibration		
Date & Time / Date Validity	05-Oct-2009 02:19:44 PM - Valid		
Calibration Source	Time Frame File		

Calibration Type: Resistivity: Air

Description	Min/Nominal/Max	Shop	Unit
All Resistivity: Air Measurements within Tolerance			

Run 2: ARC8 : Calibration Gamma Ray

Primary Set Components	Description	Tool Element	Serial Number
	DC without AIM	ARDC	2724

	DC without AIM	ARDC	2724

Calibration Dates	Shop Calibration		
Date & Time / Date Validity	05-Oct-2009 09:57:16 AM - Valid		
Calibration Source	Time Frame File		

Calibration Type:	Gamma Ray: Blanket		
Description	Min/Nominal/Max	Shop	Unit
All Gamma Ray: Blanket Measurements within Tolerance			

Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Density LS Window 3 Calibration

Primary Set Components	Description	Tool Element	Serial Number
	Chassis	ADSE	083
	Density Blade	ADBD	
	Retrievable Neutron Gamma Src	RNGS	

Calibration Dates	Shop Calibration		
Date & Time / Date Validity	29-Aug-2009 12:14:05 AM - Valid		
Calibration Source	Time Frame File		

Calibration Type:	Density: LS Window 3		
Description	Min/Nominal/Max	Shop	Unit
All Density: LS Window 3 Measurements within Tolerance			

Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Density SS Window 1 Calibration

Primary Set Components	Description	Tool Element	Serial Number
	Chassis	ADSE	083

Calibration Dates	Shop Calibration		
Date & Time / Date Validity	29-Aug-2009 12:14:05 AM - Valid		
Calibration Source	Time Frame File		

Calibration Type:	Density: SS Window 1		
Description	Min/Nominal/Max	Shop	Unit
All Density: SS Window 1 Measurements within Tolerance			

Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Density SS Window 3 Calibration

Primary Set Components	Description	Tool Element	Serial Number
	Chassis	ADSE	083

Calibration Dates	Shop Calibration		
Date & Time / Date Validity	29-Aug-2009 12:14:05 AM - Valid		
Calibration Source	Time Frame File		

Calibration Type:	Density: SS Window 3		
Description	Min/Nominal/Max	Shop	Unit
All Density: SS Window 3 Measurements within Tolerance			

Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Neutron Far Tube 1 Calibration

Primary Set Components	Description	Tool Element	Serial Number
	Chassis	ADSE	083
	Neutron Blade	NDBN	

Calibration Dates	Shop Calibration		
Date & Time / Date Validity	29-Aug-2009 12:14:05 AM - Valid		
Calibration Source	Time Frame File		

Calibration Type:	Neutron: Far tube 1		
Description	Min/Nominal/Max	Shop	Unit
All Neutron: Far tube 1 Measurements within Tolerance			

Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Neutron Far Tube 2 Calibration

Primary Set Components	Description	Tool Element	Serial Number

	Chassis	ADSE	083

Calibration Dates	Shop Calibration		
Date & Time / Date Validity	29-Aug-2009 12:14:05 AM - Valid		
Calibration Source	Time Frame File		

Calibration Type:	Neutron: Far tube 2		
Description	Min/Nominal/Max	Shop	Unit
	All Neutron: Far tube 2 Measurements within Tolerance		

Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Neutron Far Tube 3 Calibration

Primary Set Components	Description	Tool Element	Serial Number
	Chassis	ADSE	083

Calibration Dates	Shop Calibration		
Date & Time / Date Validity	29-Aug-2009 12:14:05 AM - Valid		
Calibration Source	Time Frame File		

Calibration Type:	Neutron: Far tube 3		
Description	Min/Nominal/Max	Shop	Unit
	All Neutron: Far tube 3 Measurements within Tolerance		

Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Neutron Near Tube 1 Calibration

Primary Set Components	Description	Tool Element	Serial Number
	Chassis	ADSE	083

Calibration Dates	Shop Calibration		
Date & Time / Date Validity	29-Aug-2009 12:14:05 AM - Valid		
Calibration Source	Time Frame File		

Calibration Type:	Neutron: Near tube 1		
Description	Min/Nominal/Max	Shop	Unit
	All Neutron: Near tube 1 Measurements within Tolerance		

Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Neutron Near Tube 2 Calibration

Primary Set Components	Description	Tool Element	Serial Number
	Chassis	ADSE	083

Calibration Dates	Shop Calibration		
Date & Time / Date Validity	29-Aug-2009 12:14:05 AM - Valid		
Calibration Source	Time Frame File		

Calibration Type:	Neutron: Near tube 2		
Description	Min/Nominal/Max	Shop	Unit
	All Neutron: Near tube 2 Measurements within Tolerance		

Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Neutron Near Tube 3 Calibration

Primary Set Components	Description	Tool Element	Serial Number
	Chassis	ADSE	083

Calibration Dates	Shop Calibration		
Date & Time / Date Validity	29-Aug-2009 12:14:05 AM - Valid		
Calibration Source	Time Frame File		

Calibration Type:	Neutron: Near tube 3		
Description	Min/Nominal/Max	Shop	Unit
	All Neutron: Near tube 3 Measurements within Tolerance		

Company: Woodside Energy Ltd

Well: Somerset-1

Field: T34P

Rig Name: Ocean Patriot

State: Tasmania

Country: Australia

Schlumberger

VISION* Service

12.25" Section

FIELD PRINT