

MWD	7.0C00
-----	--------

Run number		1	2	3	4						
Bit size	in	26	17.5	12.25	12.25						
Bit start depth	m	1425.0	1835.0	2459.0	2695.0						
Bit end depth	m	1835.0	2459.0	2695.0	2979.0						
Top interval logged	m	1425.0	1820.0	2444.0	2678.5						
Bottom interval logged	m	1820.0	2444.0	2678.5	2963.0						
Begin log: time		08:20:00	13:10:00	03:50:00	8:30:00						
Begin log: date		20-Nov-04	27-Nov-04	4-Dec-04	6-Dec-04						
End log: time		16:30:00	22:15:00	7:00:00	16:00:00						
End log: date		22-Nov-04	1-Dec-04	6-Dec-04	7-Dec-04						
Mud data											
Depth	m	1835.0	2459.0	2695.0	2979.0						
Type		Sea water	KCl/PHPA/Glycol	KCl/PHPA/Glycol	KCl/PHPA/Glycol						
Mud weight	ppg	8.6	9.2	9.5	9.6						
Solids	%	N/A	4.0	8.8	9.5						
Chlorides	mg/l	N/A	38500	52500	48000						
Rm	OHMM@°C	N/A	0.1192@25.1	0.078@26.3	0.0968@25.2						
Rmf	OHMM@°C	N/A	0.1087@24.9	0.0732@25.8	0.0891@24.9						
Rmc	OHMM@°C	N/A	0.1248@26.8	0.1005@25.5	0.1285@24.5						

Potassium	%	N/A	4.0	5.4	5.1						
Environmental data											
GR											
Mud weight	ppg	8.6	9.2	9.5	9.6						
Bit size	in	26	17.5	12.25	12.25						
Resistivity											
Neutron porosity											
Hole Size	in	26	17.5	12.25	12.25						
Mud weight	ppg	8.6	9.2	9.5	9.6						
Bottom Hole Temperature	°C	17.0	23.0	24.0	26.0						
Mud salinity	ppm	N/A	N/A	N/A	N/A						
Formation salinity	ppm	N/A	N/A	N/A	N/A						
Recording rate 1	SEC	6	6	6	6	GR-APWD RES					
Recording rate 2	SEC	6	6	6	6						
Filtering GR		3-Point	3-point	3-point	3-point						
Filtering density		N/A	N/A	N/A	N/A						
Filtering Neutron		N/A	N/A	N/A	N/A						
Company representative		D. Atkins	P. King	J. Young	R. Subramanian						
Anadrill personnel		D. Borges	O. Radicevic	L. Watson	B. Manjenic						

<p style="text-align: center;">DISCLAIMER</p> <p>THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.</p>		
OTHER SERVICES FOR RUN1 Directional Surveys Performance Drilling Annular Pressure, ECD & Temperature Internet Web Witness	OTHER SERVICES FOR RUN2 Directional Surveys Performance Drilling Annular Pressure, ECD & Temperature Internet Web Witness	OTHER SERVICES FOR RUN3 Directional Surveys Performance Drilling Annular Pressure, ECD & Temperature Multi Vibrational Chassis (MVC) Internet Web Witness
REMARKS: RUN NUMBER 1 Depth is Driller's Depth. CDR gamma ray is corrected for bit size, mud weight and tool size. CDR resistivity is borehole compensated but not environmentally corrected. Run Objective: Jet in 30" casing & continue to drill 26" to TD. POOH: Section TD. Remarks: Low Gamma Ray readings are due to enlarged hole size.	REMARKS: RUN NUMBER 2 Depth is Driller's Depth. CDR gamma ray is corrected for bit size, mud weight and tool size. CDR resistivity is borehole compensated but not environmentally corrected. Run Objective: Drill 17.5" section to TD. POOH: Section TD.	REMARKS: RUN NUMBER 3 Depth is Driller's Depth. CDR gamma ray is corrected for bit size, mud weight and tool size. CDR resistivity is borehole compensated but not environmentally corrected. Run Objective: Drill 12.25" section to TD. POOH: Rate of penetration.

EQUIPMENT DESCRIPTION		
RUN1	RUN2	RUN3
DOWNHOLE F	DOWNHOLE F	DOWNHOLE F

DOWNHOLE E

DOWNHOLE E

DOWNHOLE E

PowerPl
Software ver:
s/n W4

CDR
Software ver:
s/n L96

26" WB St
s/n 536

Float S
s/n 32

A962GT Po
s/n 10
lobes
Stabilizer Sleeve

26" Mill To
Smith MSDS, Jets 2x
s/n MR3

Maximum string dian
All lengths in



28.6
— 24.3
— 18.4
— 15.7
— 15.0
13.0
11.3
10.3
0.0

PowerPl
Software ver:
s/n: W4

CDR
Software ver:
s/n: L96

17 1/2" String
s/n 207

Float S
s/n: 32

A962GT Po
s/n: 1C
lobes
Stabiilizer sleeve

17 1/2" Mill 1
Reed T11C, Jets
s/n: J61

Maximum string dian
All lengths in



28.8
— 24.4
— 18.6
— 15.8
— 15.1
13.2
11.1
10.1
0.0

PowerPl
Software ver
s/n: ED

In Line Sta
OD 12
s/n: 2132

CDR
Software ver:
OD 8

12 1/4" String
s/n: AIB

XO
s/n: X/1

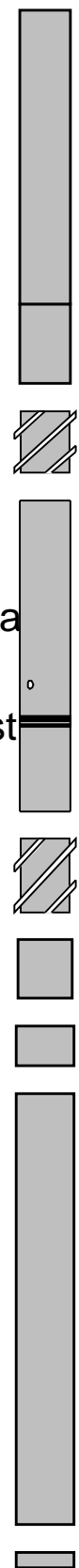
Float S
s/n: 37

A962GT Po
s/n: 2C
lobes:
Stabilizer sleeve

XO
s/n: L 9

12 1/4" PI
Hughes HCH606
s/n 7003

Maximum string dian
All lengths in



30.9
— 26.7
— 26.0
22.0
21.5
— 19.4
— 16.6
— 16.1
14.5
12.5
11.5
10.5
0.6
0.3

DISCLAIMER

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OTHER SERVICES FOR RUN4 Directional Surveys Performance Drilling Annular Pressure, ECD & Temperature Multi Vibrational Chassis (MVC) Internet Web Witness	OTHER SERVICES FOR RUN	OTHER SERVICES FOR RUN
REMARKS: RUN NUMBER 4 Depth is Driller's Depth. CDR gamma ray is corrected for bit size, mud weight and tool size. CDR resistivity is borehole compensated but not environmentally corrected. Run Objective: Drill 12.25" section to TD. POOH: TD of Armit-1.	REMARKS: RUN NUMBER	REMARKS: RUN NUMBER

EQUIPMENT DESCRIPTION

RUN4	RUN	RUN
<div>DOWNHOLE E</div> <div><div>PowerPul</div><div>Software version: ED</div><div>D&I MVC</div><div><div></div><div></div><div></div></div><div>In Line Station</div><div>OD 12</div></div> <div>30.9</div> <div>26.7</div> <div>26.0</div> <div>22.5</div>		

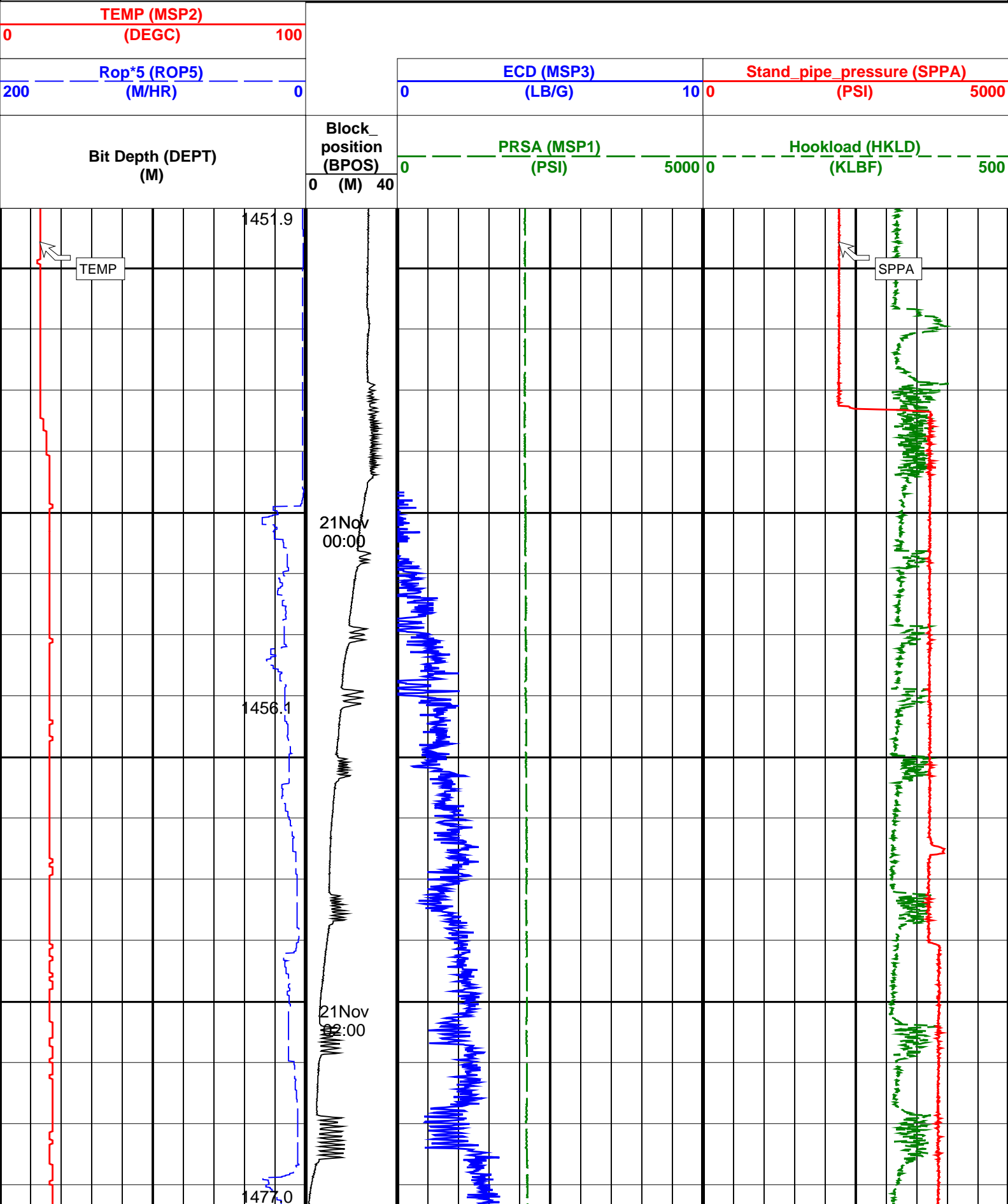
Variable Name	Variable Description	Run Name & Value				
		Run #1	Run #2	Run #3	Run #4	
BHT_RM	Bottom Hole Temperature (degC)		17.000000	23.000000	24.000000	26.000000
BS_RM	Bit Size (in)	26.000000	17.500000	12.250000	12.250000	
MST_RM	Mud Sample temperature (degC)		12.000000	25.100000	26.300000	25.200000
MW_RM	Mud Weight (ppg)	8.600000	9.200000	9.500000	9.600000	
OBMF_RM	Oil Based Mud	NO	NO	NO	NO	
RMS_RM	Resistivity of Mud Sample (ohmm)		0.000000	0.119200	0.078000	0.096800
SHT_RM	Surface Hole Temperature (degC)		12.000000	15.000000	15.000000	15.000000
TD_RM	Total Measured Depth (m)	1835.000000	2459.000000	2695.000000	2979.000000	
ENV_SELECT	Res. Env. Corr. Selection	BS	BS	BS	BS	
TSIZ_CDR	CDR Tool Size (in)	9.500000	9.500000	8.250000	8.250000	
PLATEU	CDR: Plateau GR sensor	YES	YES	YES	YES	
VERS_CDR	CDR Down hole software version Number		6.0B0800	6.0B0800	6.0B0800	6.0B0800
Schlumberger Drilling & Measurements			Parameter Insert Header Software version 1.1c			

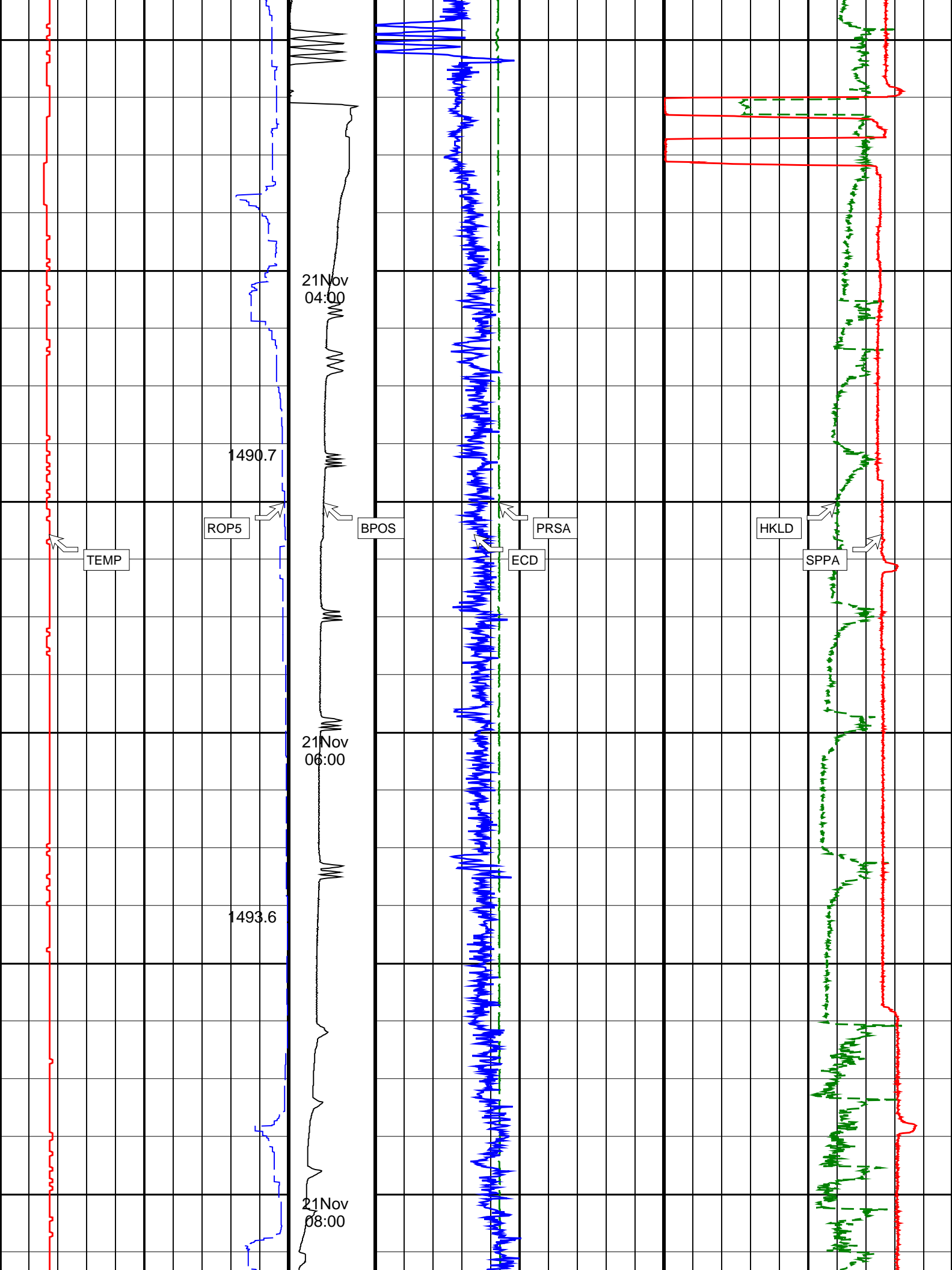
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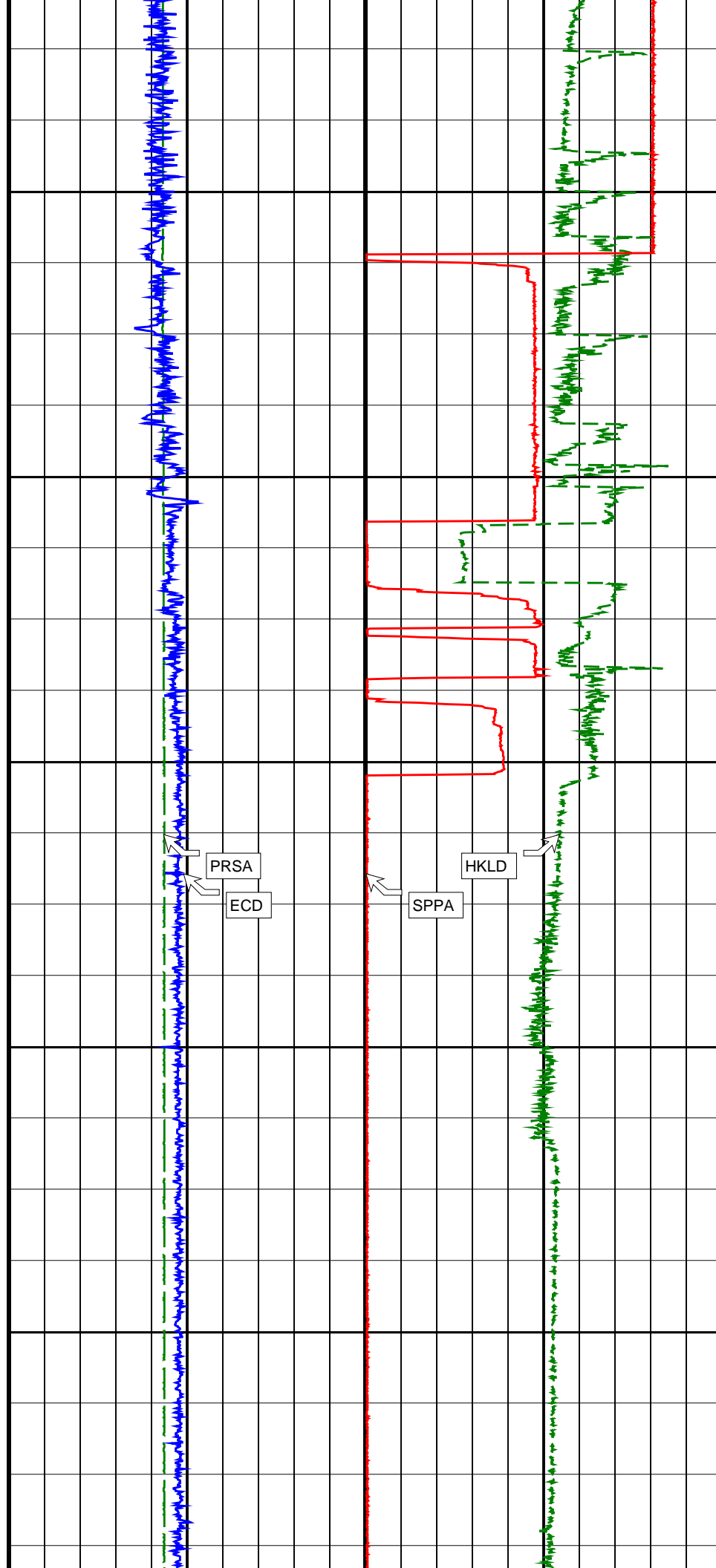
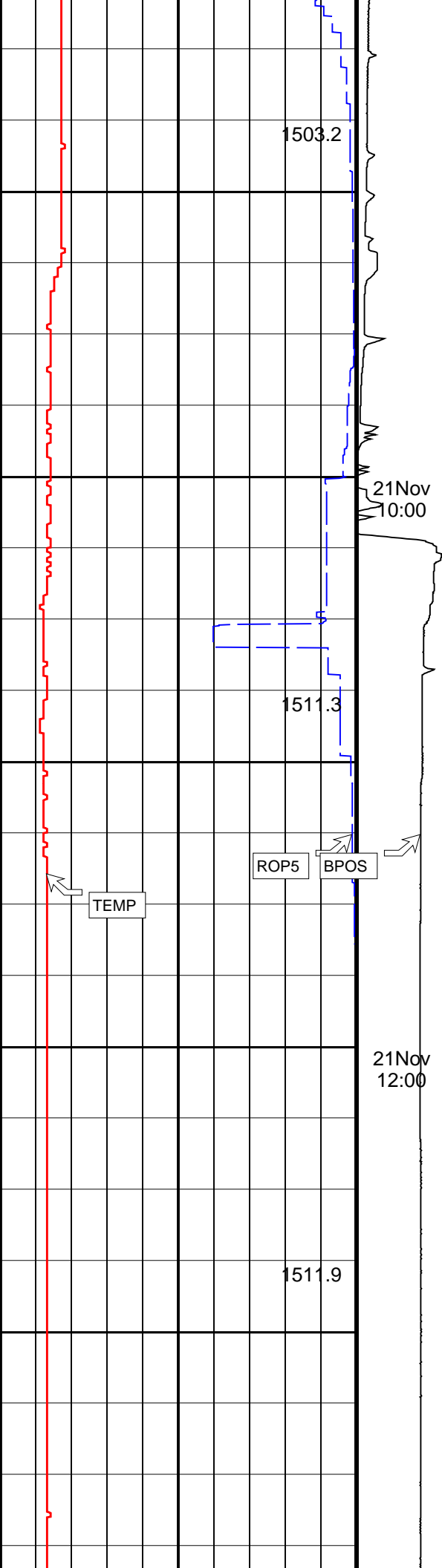
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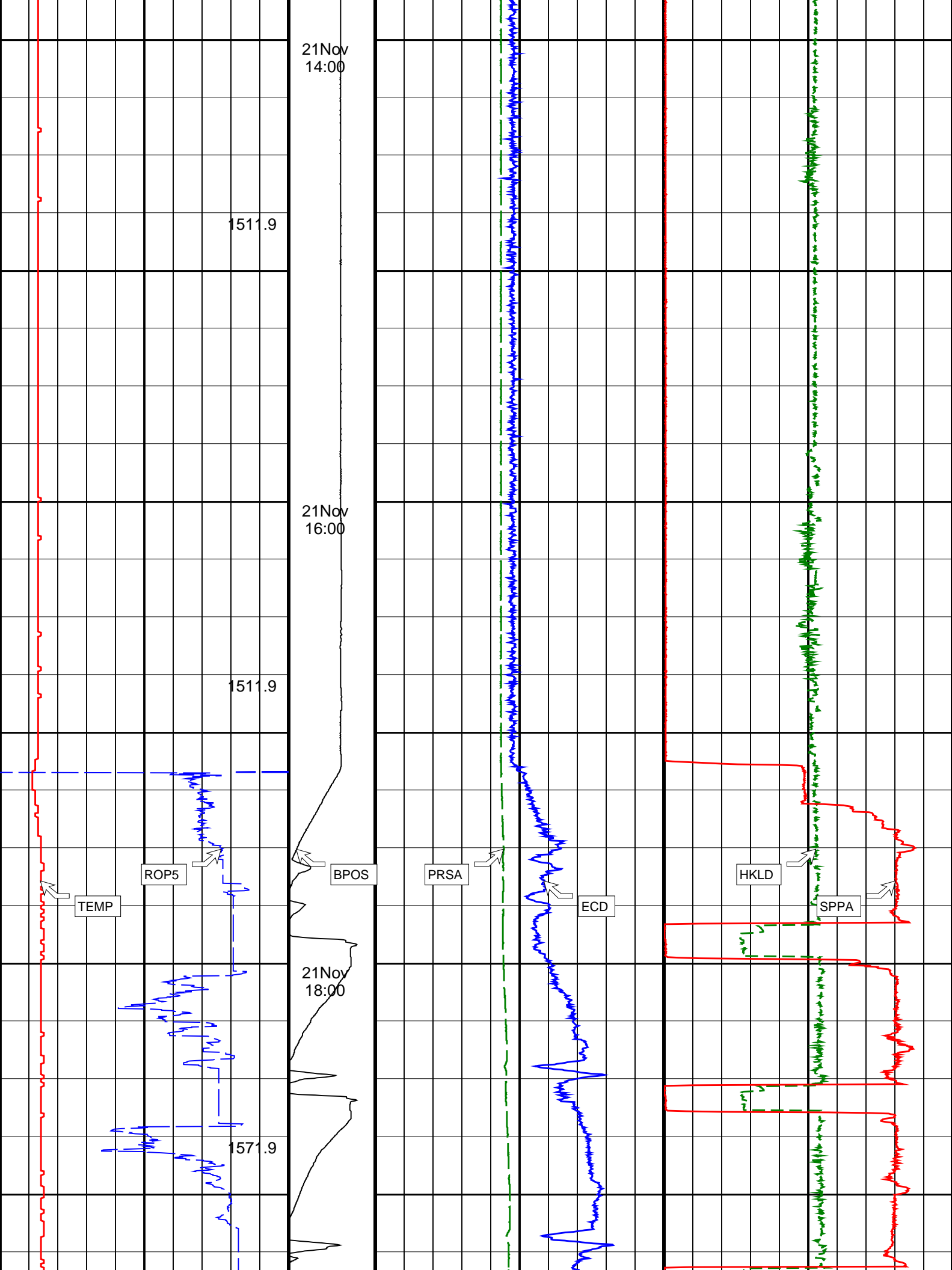
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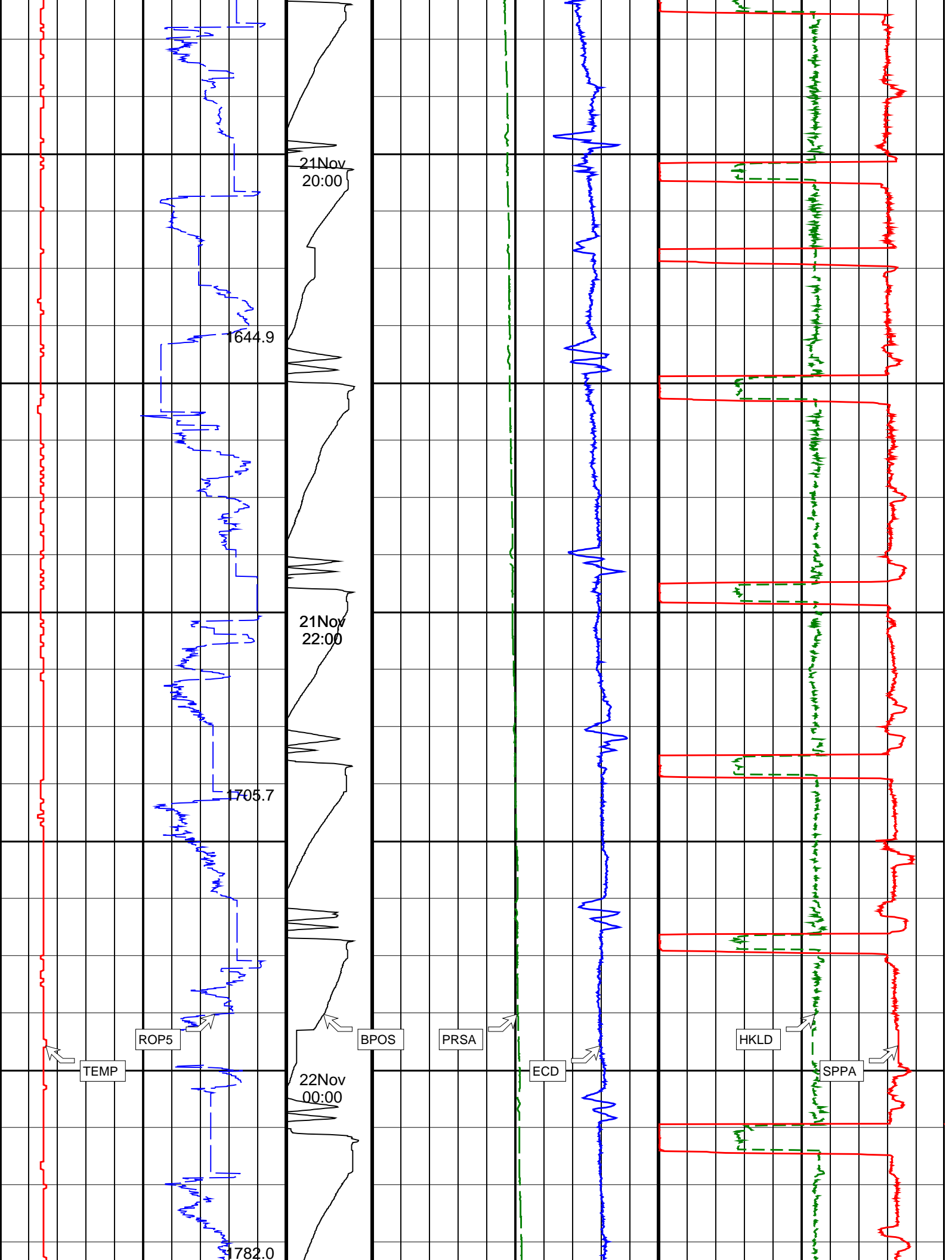
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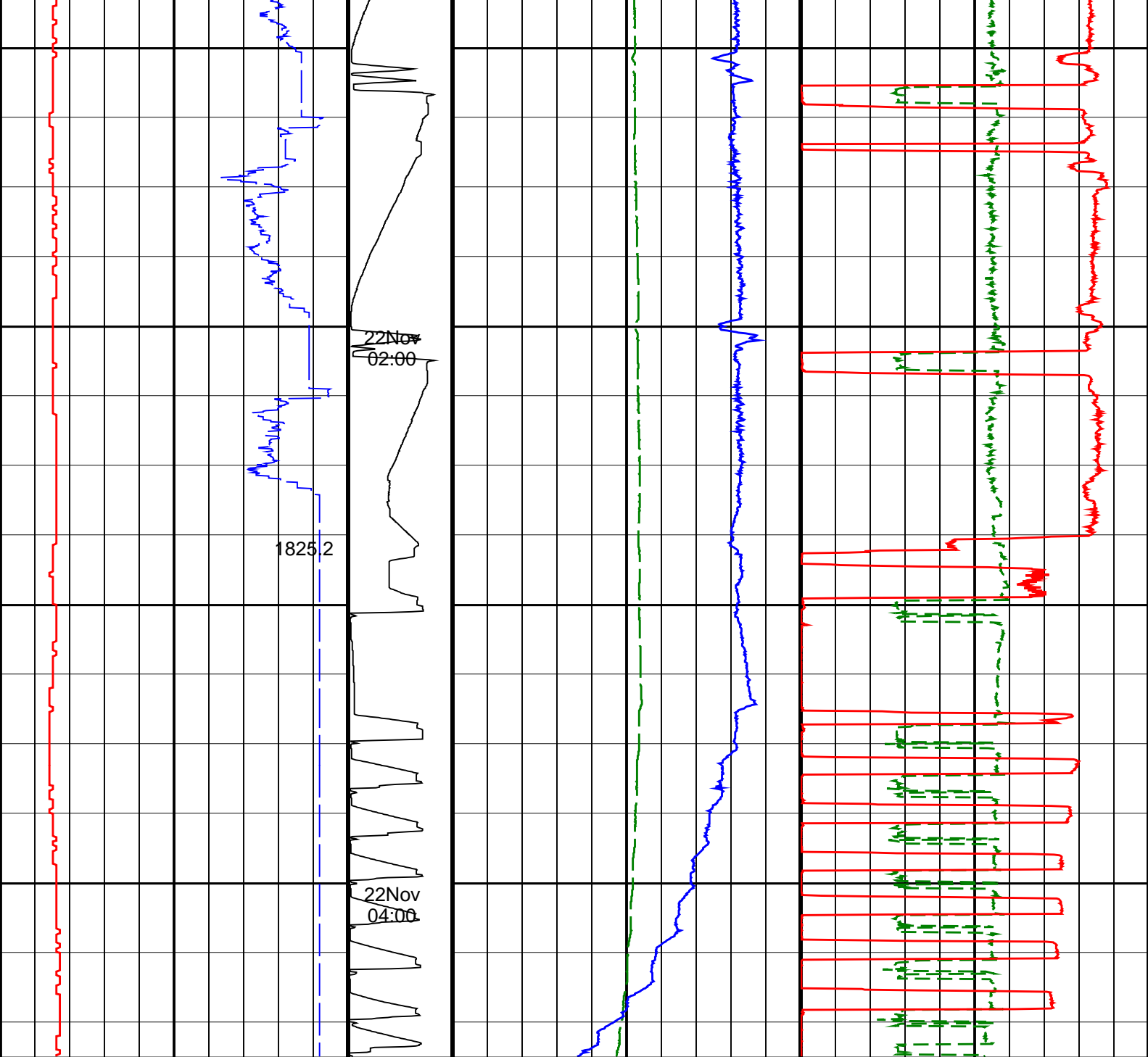












Bit Depth (DEPT) (M)	Block position (BPOS) (M) 40	PRSA (MSP1) (PSI)	Hookload (HKLD) (KLBF)
		0 5000	0 500
Rop*5 (ROP5) (M/HR)		ECD (MSP3) (LB/G)	Stand_pipe_pressure (SPPA) (PSI)
0 200		0 10	0 5000
TEMP (MSP2) (DEGC)			
0 100			

IDEAL Version: ID9_1C_01 IDF			
CDR	id9_1c_01	MWD_10	id9_1c_01

Master: 2–Oct–2004 8:36

9.50–in. Compensated Dual Resistivity Calibration

Resistivity: Air

Phase	Attenuation down	DB	Value	Phase	Attenuation up	DB	Value	Phase	BHC attenuation	DB	Value
Master			3.705	Master			3.932	Master			3.818
	3.290 (Minimum)	3.890 (Nominal)	4.490 (Maximum)		3.290 (Minimum)	3.890 (Nominal)	4.490 (Maximum)		3.790 (Minimum)	3.890 (Nominal)	3.990 (Maximum)

Master: 2–Oct–2004 8:36

9.50–in. Compensated Dual Resistivity Calibration


Resistivity: Air

Phase	Phase shift down	DEG	Value	Phase	Phase shift up	DEG	Value	Phase	BHC phase shift	DEG	Value
Master			0.1082	Master			0.09295	Master			0.1006
	–2.400 (Minimum)	0.1000 (Nominal)	2.600 (Maximum)		–2.400 (Minimum)	0.1000 (Nominal)	2.600 (Maximum)		–0.9000 (Minimum)	0.1000 (Nominal)	1.100 (Maximum)

Master: 2–Oct–2004 7:55

9.50–in. Compensated Dual Resistivity Calibration

Gamma Ray: Blanket

Gamma Ray: Example			
Phase	Gain		Value
Master			0.9923
	0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)

SCHLUMBERGER

Survey report

Client.....: SANTOS – INPEX – UNOCAL
Field.....: AmritWell.....: Amrit–1
API number.....:
Engineer.....: D.Borges, L.Watson, O.Radicevic
RIG.....: Jack Bates
STATE.....: Victoria
Spud date.....: 20–Nov–2004
Last survey date.....: 07–Dec–04
Total accepted surveys....: 44
MD of first survey.....: 0.00 m
MD of last survey.....: 2979.00 m

----- Survey calculation methods -----
Method for positions.....: Minimum curvature
Method for DLS.....: Mason & Taylor
----- Depth reference -----
Permanent datum.....: LAT
Depth reference.....: Driller's Pipe Tally
GL above permanent.....: –1396.00 m
KB above permanent.....: Top Drive
DF above permanent.....: 29.00 m
----- Vertical section origin -----
Latitude (+N/S–).....: 0.00 m
Departure (+E/W–).....: 0.00 m
----- Platform reference point -----
Latitude (+N/S–).....: 0.00 m
Departure (+E/W–).....: 0.00 m
Azimuth from Vsect Origin to target:
----- Geomagnetic data -----
Magnetic model.....: BGGM version 2004
Magnetic date.....: 20–Nov–2004
Magnetic field strength...: 1221.99 HCNT
Magnetic dec (+E/W–).....: –70.25 degrees
Magnetic dip.....: –70.25 degrees
----- MWD survey Reference Criteria -----
Reference G.....: 1000.09 mGal
Reference H.....: 1221.99 HCNT
Reference Dip.....: –70.25 degrees
Tolerance of G.....: (+/–)
Tolerance of H.....: (+/–) 6.00 HCNT
Tolerance of Dip.....: (+/–) 0.45 degrees
----- Corrections -----
Magnetic dec (+E/W–).....: 10.48 degrees
Grid convergence (+E/W–): –0.46 degrees
Total az corr (+E/W–).....: 10.94 degrees
0.00 degrees (Total az corr = magnetic dec – grid conv)
Survey Correction Type ...:
I=Sag Corrected Inclination
M=Schlumberger Magnetic Correction
S=Shell Magnetic Correction
F=Failed Axis Correction
R=Magnetic Resonance Tool Correction
D=Dmag Magnetic Correction

Seq	Measured	inci	Azimuth	Course	IVD	vertical	Displ	Displ	Total	At	DLS	Srvy Tool
#	depth	angle	angle	length	depth	section	+N/S-	+E/W-	displ	Azim	(deg/	tool Corr
-	(m)	(deg)	(deg)	(m)	(m)	(m)	(m)	(m)	(m)	(deg)	10m)	(deg)
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	TIP	None
2	1425.49	0.59	234.33	1425.49	1425.46	-4.28	-4.28	-5.96	7.34	234.33	0.00	MWD None
3	1454.01	1.07	295.89	28.52	1453.98	-4.25	-4.25	-6.32	7.62	236.09	0.33	MWD None
4	1487.29	0.97	129.33	33.28	1487.26	-4.29	-4.29	-6.38	7.69	236.08	0.61	MWD None
5	1510.95	0.86	56.64	23.66	1510.92	-4.32	-4.32	-6.08	7.46	234.60	0.46	MWD None
6	1539.34	0.80	303.78	28.39	1539.31	-4.09	-4.09	-6.07	7.32	235.99	0.49	MWD None
7	1568.02	0.85	315.97	28.68	1567.98	-3.83	-3.83	-6.38	7.44	239.03	0.06	MWD None
8	1595.59	0.53	308.57	27.57	1595.55	-3.60	-3.60	-6.62	7.54	241.45	0.12	MWD None
9	1624.12	0.56	304.38	28.53	1624.08	-3.44	-3.44	-6.84	7.66	243.29	0.02	MWD None
10	1653.18	0.34	298.89	29.06	1653.14	-3.32	-3.32	-7.03	7.78	244.73	0.08	MWD None
11	1681.34	0.26	305.03	28.16	1681.30	-3.24	-3.24	-7.16	7.86	245.63	0.03	MWD None
12	1709.52	0.31	319.56	28.18	1709.48	-3.15	-3.15	-7.26	7.91	246.56	0.03	MWD None
13	1737.89	0.40	311.67	28.37	1737.85	-3.02	-3.02	-7.38	7.98	247.73	0.04	MWD None
14	1766.33	0.35	299.78	28.44	1766.29	-2.92	-2.92	-7.53	8.08	248.85	0.03	MWD None
15	1809.32	0.26	261.27	42.99	1809.28	-2.86	-2.86	-7.74	8.26	249.70	0.05	MWD None
16	1849.73	0.23	231.00	40.41	1849.69	-2.93	-2.93	-7.90	8.42	249.65	0.03	MWD None
17	1878.02	0.37	193.70	28.29	1877.98	-3.05	-3.05	-7.96	8.53	249.02	0.08	MWD None
18	1908.10	0.34	223.98	30.08	1908.06	-3.21	-3.21	-8.05	8.67	248.24	0.06	MWD None
19	1935.76	0.18	265.57	27.66	1935.72	-3.28	-3.28	-8.15	8.78	248.11	0.09	MWD None
20	1963.97	0.17	252.91	28.21	1963.92	-3.29	-3.29	-8.23	8.87	248.21	0.01	MWD None
21	1991.95	0.12	204.40	27.98	1991.90	-3.33	-3.33	-8.29	8.93	248.11	0.05	MWD None
22	2020.87	0.20	231.00	28.92	2020.82	-3.39	-3.39	-8.34	9.00	247.88	0.04	MWD None
23	2049.42	0.23	223.20	28.55	2049.37	-3.46	-3.46	-8.41	9.10	247.64	0.01	MWD None
24	2077.78	0.26	214.74	28.36	2077.73	-3.56	-3.56	-8.49	9.21	247.27	0.02	MWD None
25	2105.32	0.33	183.75	27.54	2105.27	-3.69	-3.69	-8.53	9.29	246.63	0.06	MWD None
26	2134.71	0.29	176.46	29.39	2134.66	-3.85	-3.85	-8.53	9.36	245.74	0.02	MWD None
27	2162.92	0.22	203.34	28.21	2162.87	-3.97	-3.97	-8.55	9.42	245.11	0.05	MWD None
28	2192.60	0.14	180.37	29.68	2192.55	-4.06	-4.06	-8.57	9.48	244.68	0.04	MWD None
29	2220.68	0.29	203.20	28.08	2220.63	-4.15	-4.15	-8.60	9.55	244.21	0.06	MWD None
30	2248.46	0.15	220.05	27.78	2248.41	-4.25	-4.25	-8.65	9.64	243.85	0.05	MWD None
31	2277.42	0.31	183.89	28.96	2277.37	-4.35	-4.35	-8.68	9.71	243.36	0.07	MWD None
32	2306.21	0.34	216.07	28.79	2306.16	-4.50	-4.50	-8.74	9.83	242.74	0.06	MWD None
33	2334.13	0.40	185.07	27.92	2334.08	-4.67	-4.67	-8.79	9.95	242.05	0.07	MWD None
34	2361.66	0.37	221.08	27.53	2361.61	-4.83	-4.83	-8.86	10.09	241.42	0.09	MWD None
35	2390.55	0.33	232.85	28.89	2390.50	-4.95	-4.95	-8.99	10.26	241.17	0.03	MWD None
36	2419.57	0.32	200.20	29.02	2419.52	-5.08	-5.08	-9.08	10.40	240.81	0.06	MWD None
37	2433.15	0.24	208.59	13.58	2433.10	-5.14	-5.14	-9.11	10.46	240.59	0.07	MWD None
38	2476.28	0.50	232.35	43.13	2476.23	-5.33	-5.33	-9.30	10.72	240.19	0.07	MWD None
39	2534.29	0.33	216.60	58.01	2534.24	-5.62	-5.62	-9.60	11.13	239.67	0.04	MWD None
40	2649.13	0.37	195.11	114.84	2649.07	-6.24	-6.24	-9.90	11.70	237.76	0.01	MWD None
41	2762.85	0.23	199.79	113.72	2762.79	-6.81	-6.81	-10.07	12.16	235.92	0.01	MWD None
42	2878.16	0.23	190.81	115.31	2878.10	-7.26	-7.26	-10.19	12.51	234.55	0.00	MWD None
43	2950.00	0.26	140.59	71.84	2949.94	-7.52	-7.52	-10.11	12.61	233.35	0.03	MWD None
44	2979.00	0.26	140.59	29.00	2978.94	-7.63	-7.63	-10.03	12.60	232.76	0.00	Proj. to TD

[(c)2004 IDEAL ID9_1C_01]

Company:	SANTOS – INPEX – UNOCAL	Schlumberger
Well:	Amrit-1	
Field:	Exploration	
Rig:	Jack Bates	VIC-P-52
State:	Victoria	
PERFORM – APWD		
Time Based – 2" per 3600'		
Recorded Mode Data		

