

# Bit Run Summary

Type		KCL/PHPA/Glycol	KCL/PHPA/Glycol								
Mud weight	ppg	10.0	10.0								
Solids	%	7.1	7.1								
Chlorides	mg/L	31000	31000								
Rm	ohm.m@°C	0.14@24.1	0.14@24.1								
Rmf	ohm.m@°C	0.12@23.5	0.12@23.5								
Rmc	ohm.m@°C	0.23@24.5	0.23@24.5								
Potassium	%	6.0	6.0								
<b>Environmental data</b>											
<b>GR</b>											
Mud weight	ppg	10.0	10.0								
Bit size	in.	8.5	8.5								
<b>Resistivity</b>											
<b>Neutron porosity</b>											
Hole Size	in.	8.5	8.5								
Mud weight	ppg	10.0	10.0								
Temperature	°C	70.6	70.6								
Mud salinity	ppm	45746	45746								
Formation salinity											
Recording rate 1	SEC	10 sec.	10 sec.								
Recording rate 2	SEC	10 sec.	10 sec.								
Filtering GR		3 pt.	3 pt.								
Filtering density		3 pt.	3 pt.								
Filtering Neutron		3 pt.	3 pt.								
Company representative		B. Steel	M. Jackson	A. Bassett							
Anadrill personnel		K. Handley	M. Y. Tan	R. Burns	K. Wilson	D. Hay					

#### DISCLAIMER

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OTHER SERVICES FOR RUN2 Directional Drilling D&I Survey	OTHER SERVICES FOR RUN3 Directional Drilling D&I Survey	OTHER SERVICES FOR RUN
REMARKS: RUN NUMBER 2 8-1/2 in. hole section was drilled from 851.0 m to 2108.0 m.  Depth is referenced to Driller's Depth.  All data presented is from tool memory.  GR corrected for mud weight, tool and bit size.  GVR*6 resistivity is corrected for bit size, mud resistivity and borehole temperature.  Neutron porosity is calculated with a limestone matrix and is corrected for bit size, borehole salinity, temperature and mud hydrogen index.  Ultrasonic Caliper not available during sliding intervals.	REMARKS: RUN NUMBER 3 8-1/2 in. hole section was reamed from 1570.0 m to 1625.0 m.  Depth is referenced to Driller's Depth.  All data presented is from tool memory.  GR corrected for mud weight, tool and bit size.  GVR*6 resistivity is corrected for bit size, mud resistivity and borehole temperature.  Neutron porosity is calculated with a limestone matrix and is corrected for bit size, borehole salinity, temperature and mud hydrogen index.  PEF readings were affected by the presence of Barite in the mud system.	REMARKS: RUN NUMBER

sliding intervals.

PEF readings were affected by the presence of Barite in the mud system.

Data density compromised at high ROP.

POOH due to drill plug.

Barite in the mud system.

POOH to change BHA.

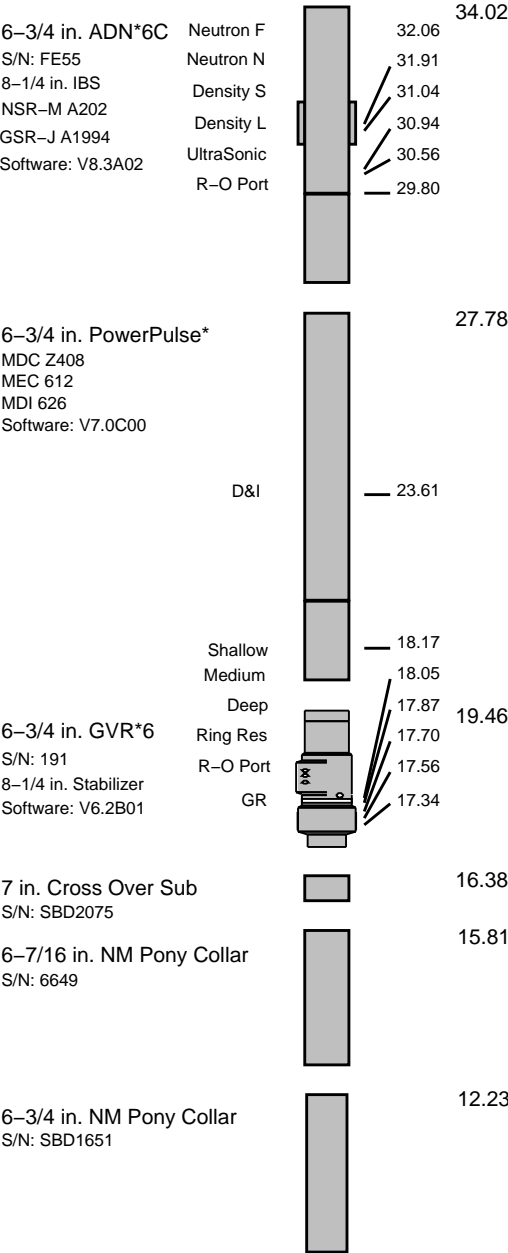
EQUIPMENT DESCRIPTION

RUN2

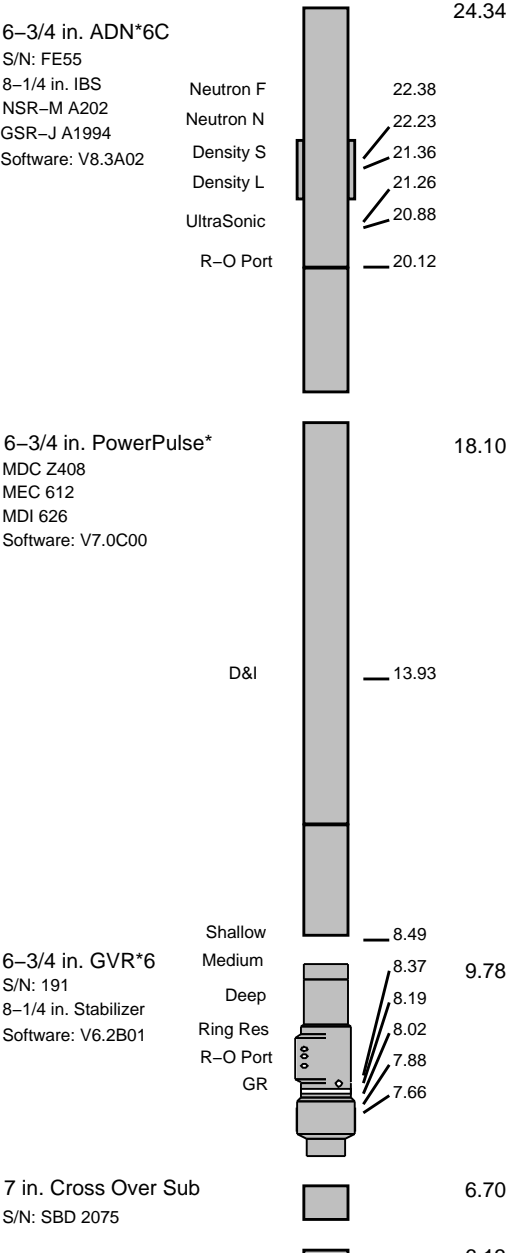
RUN3

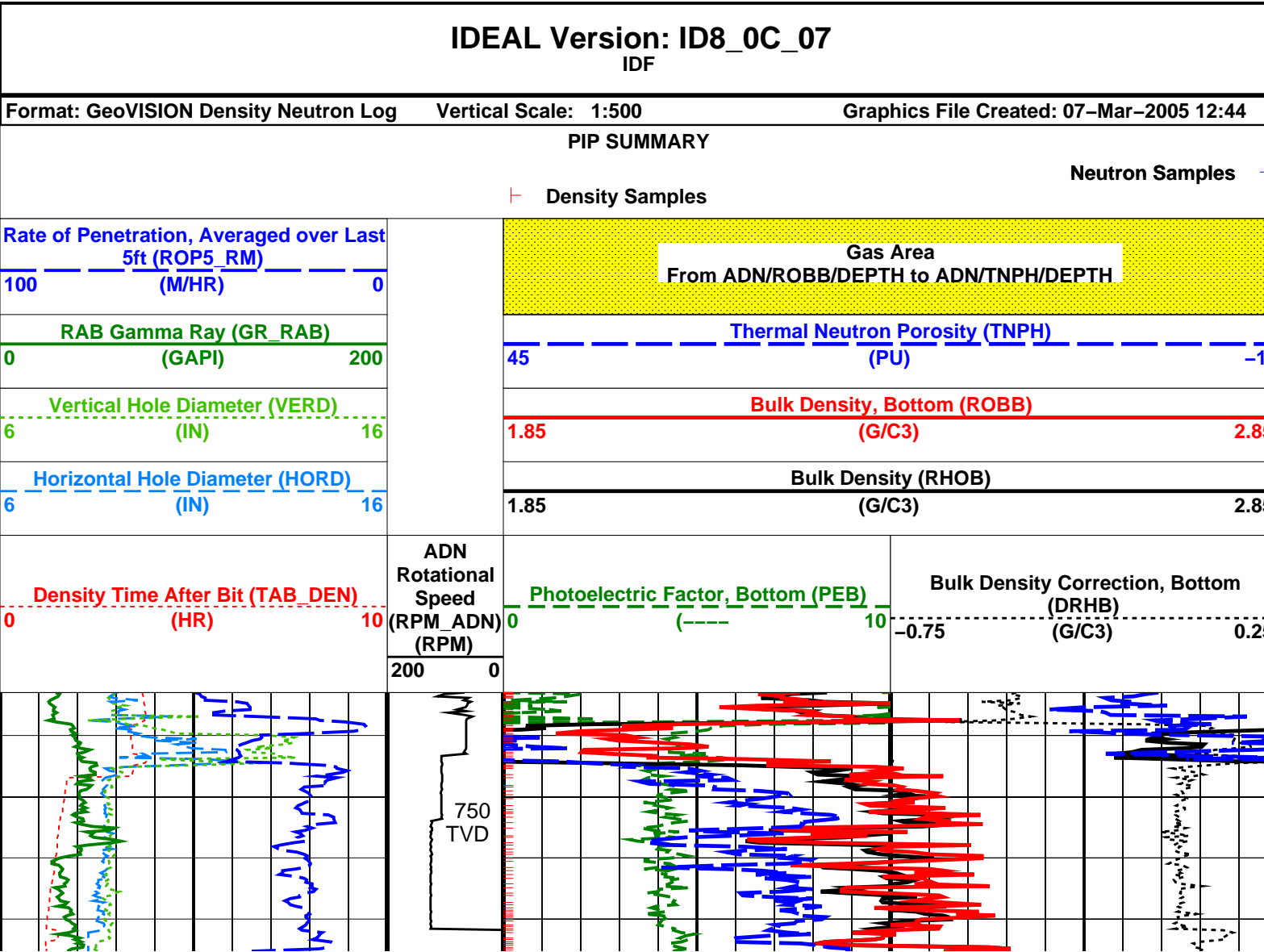
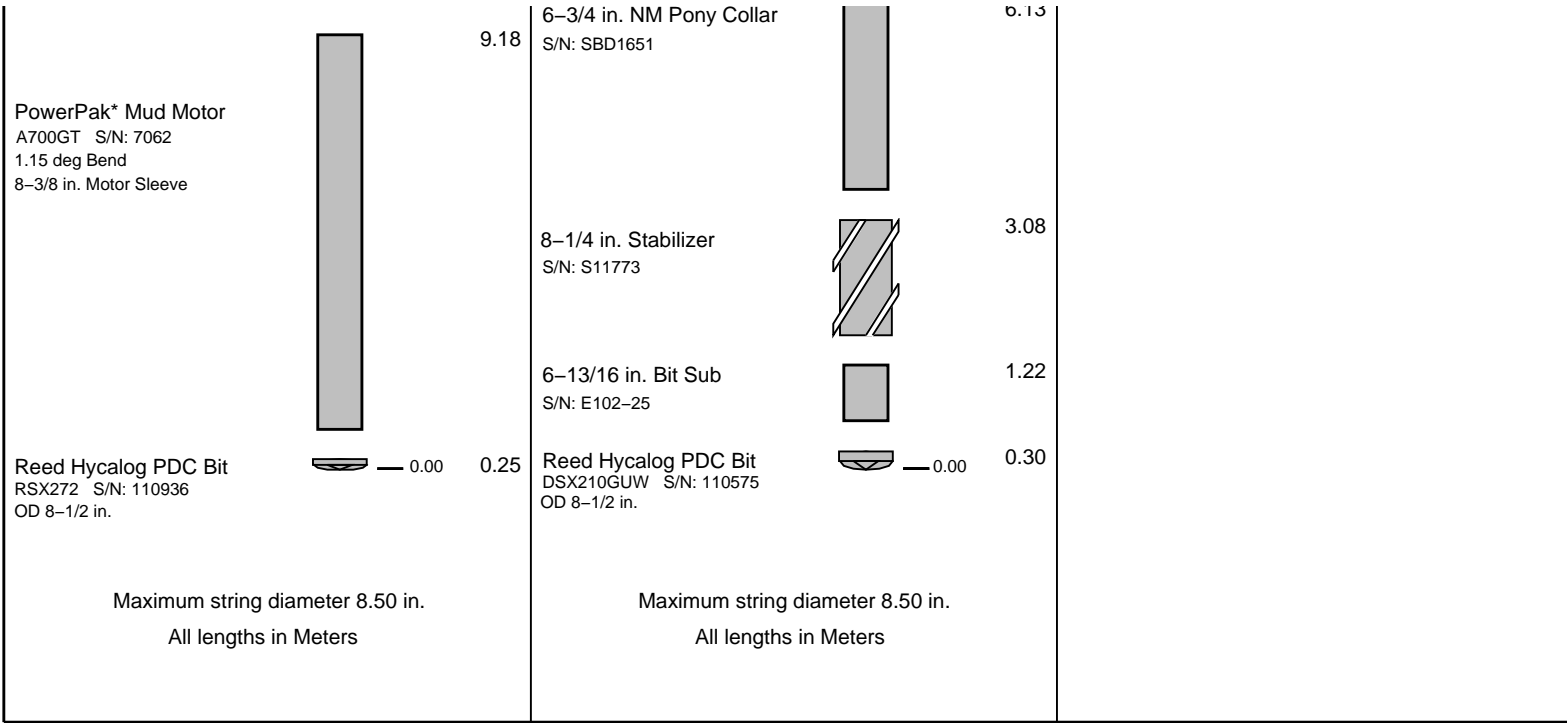
RUN

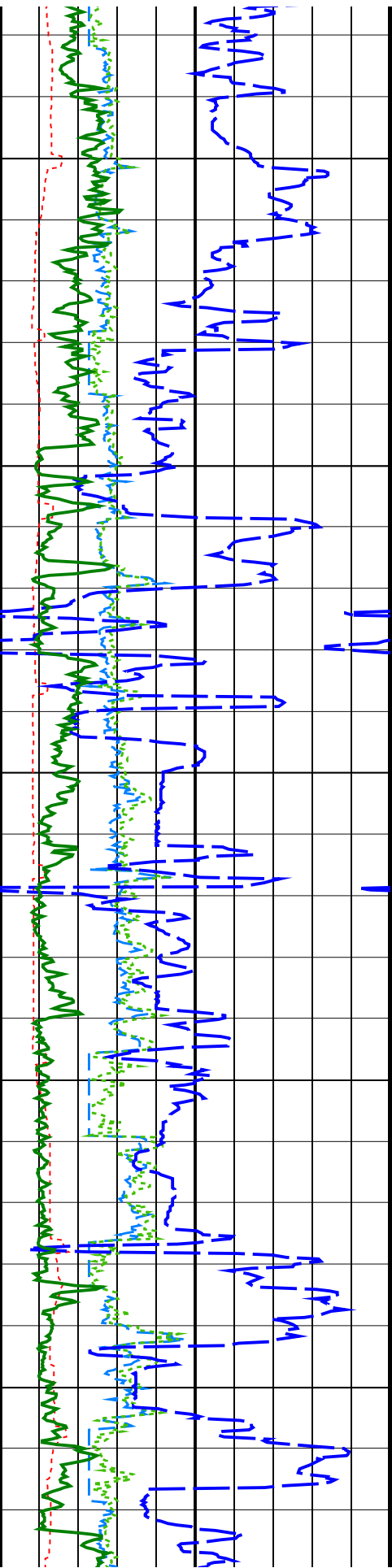
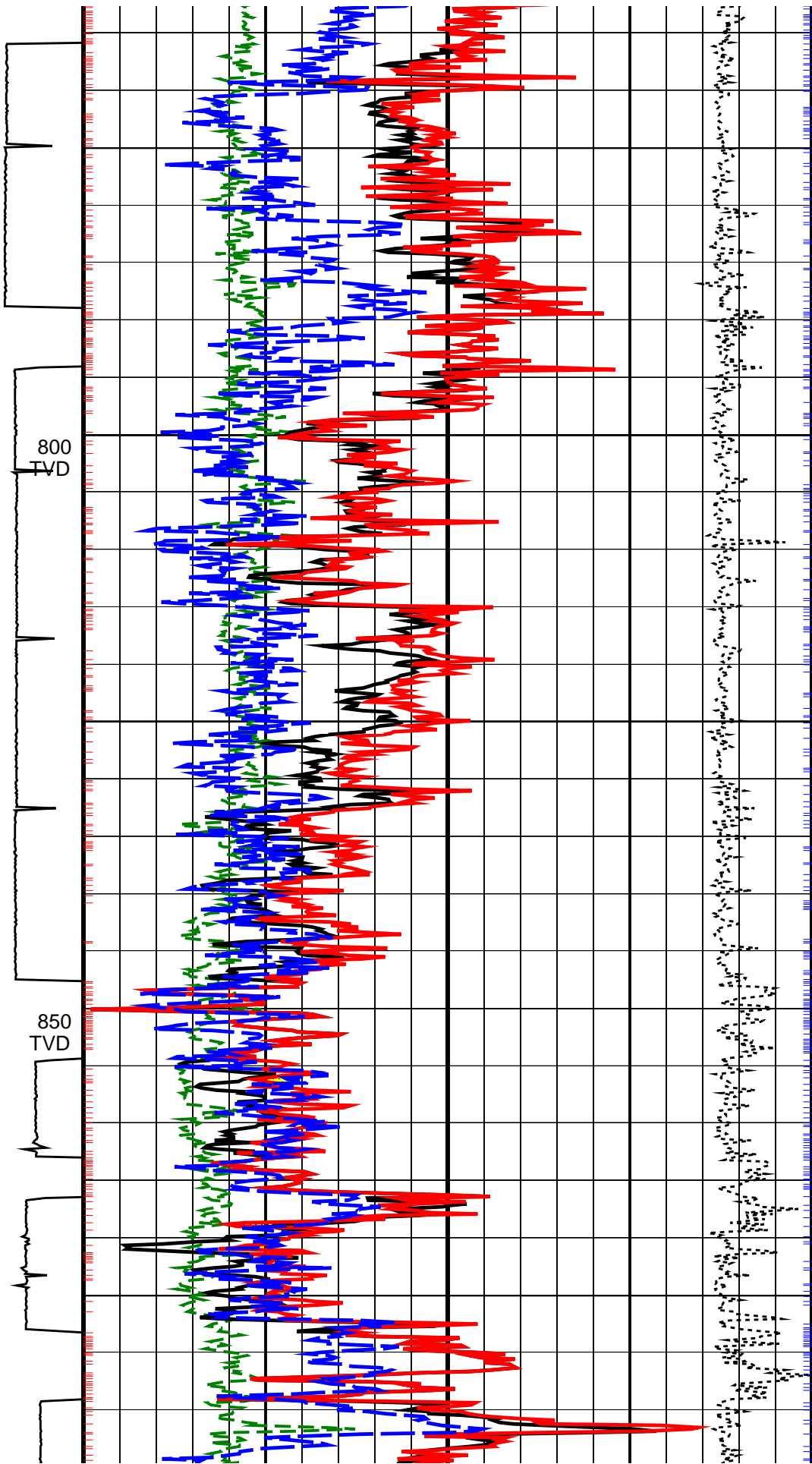
DOWNHOLE EQUIPMENT

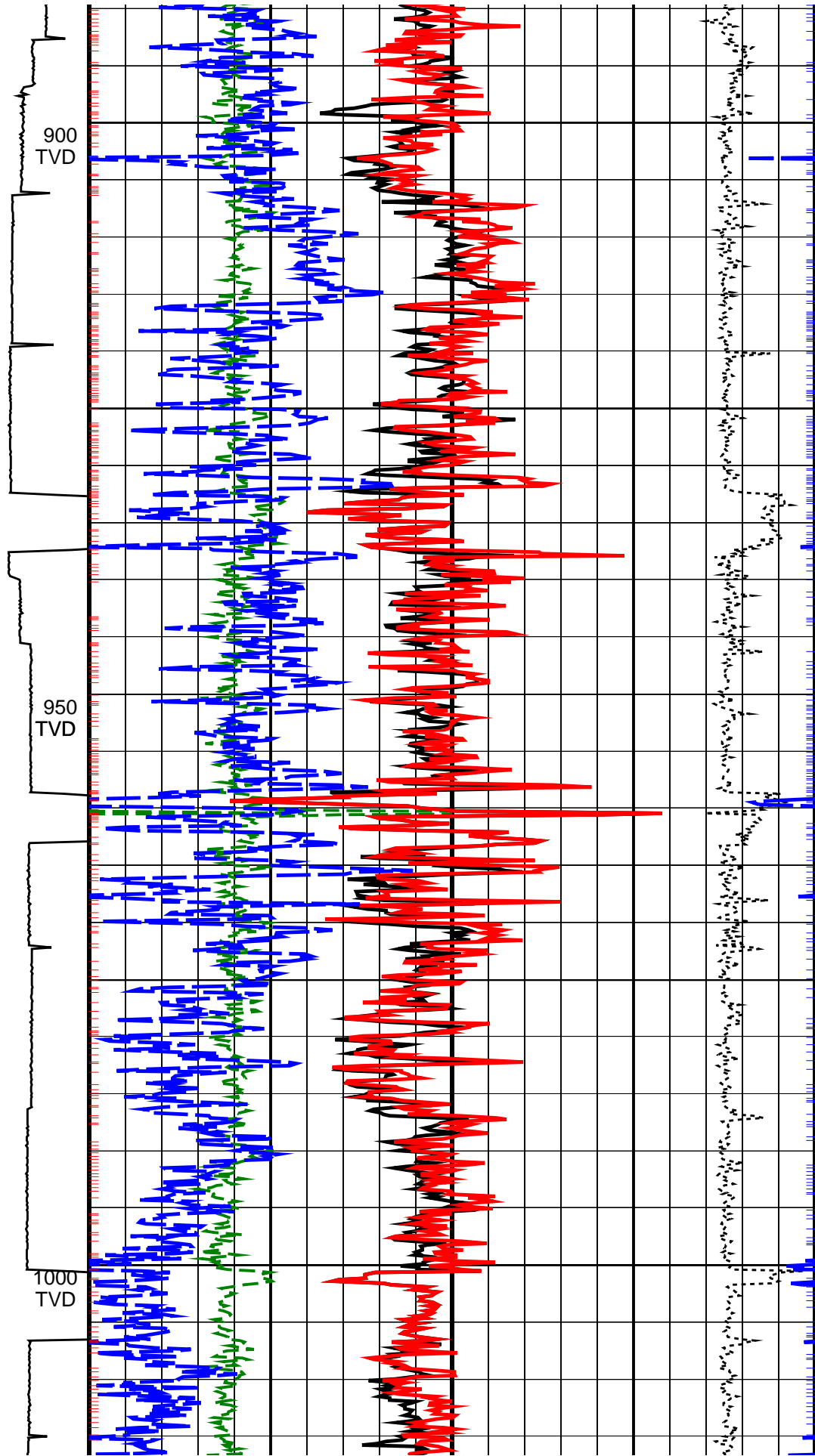
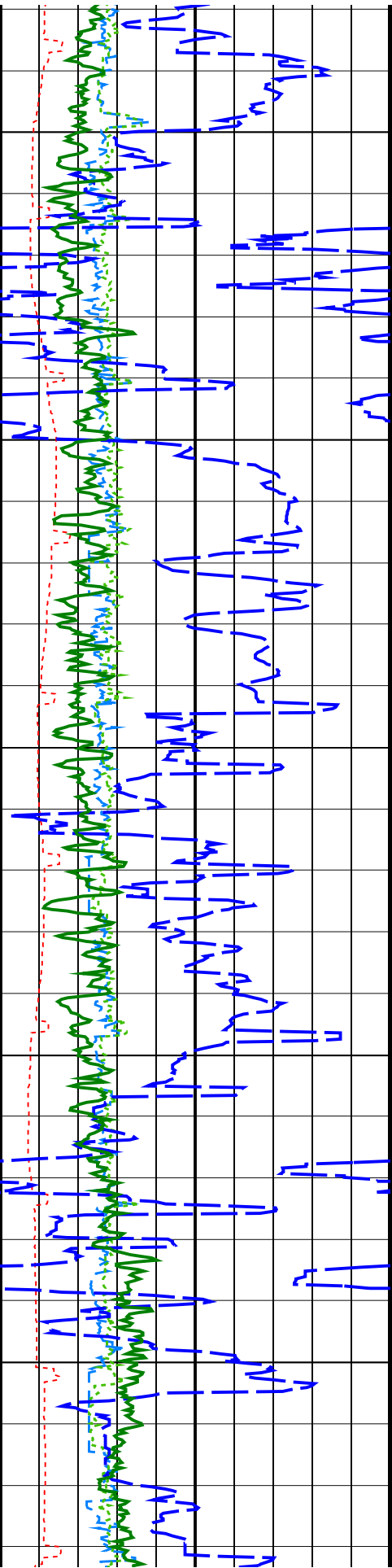


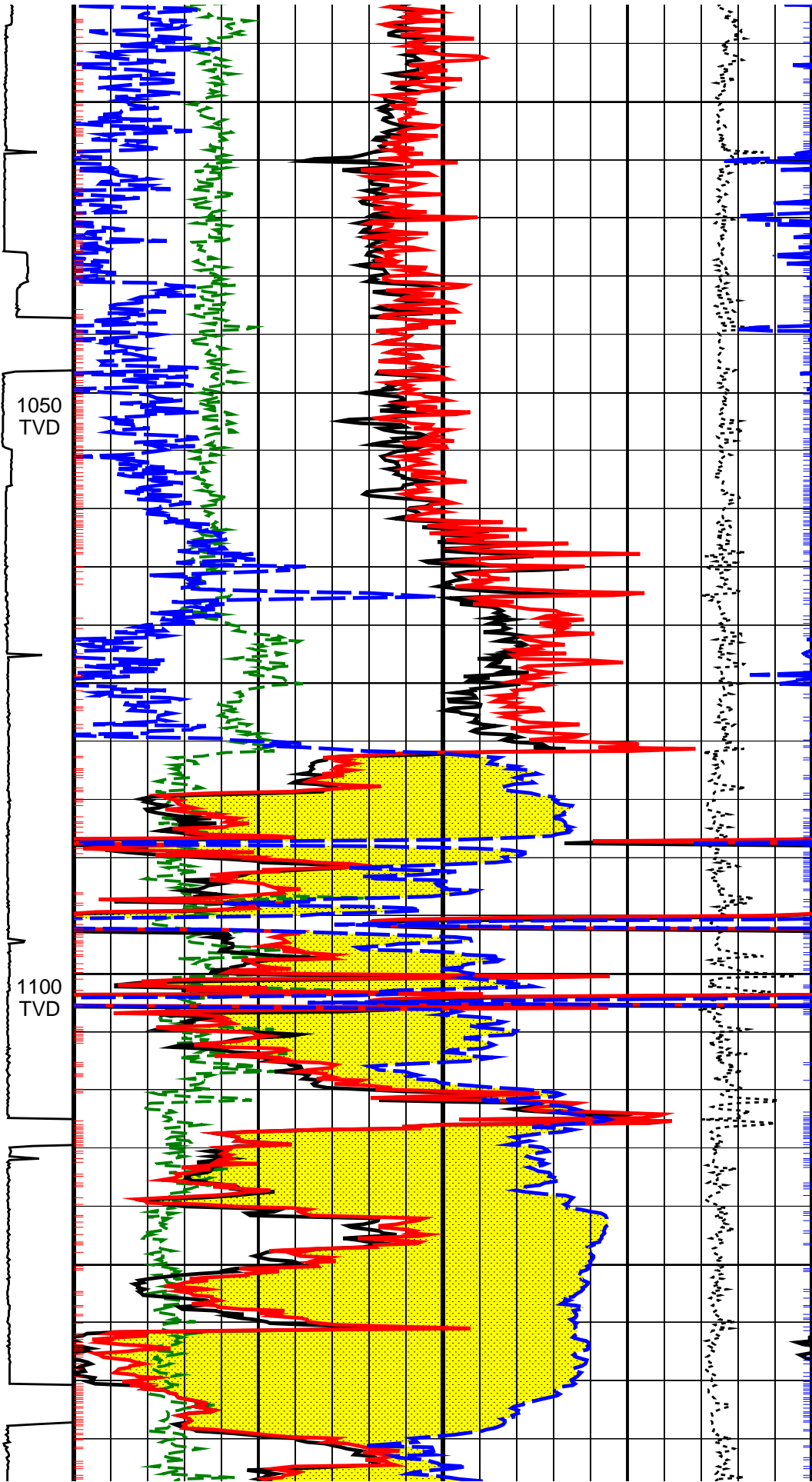
DOWNHOLE EQUIPMENT





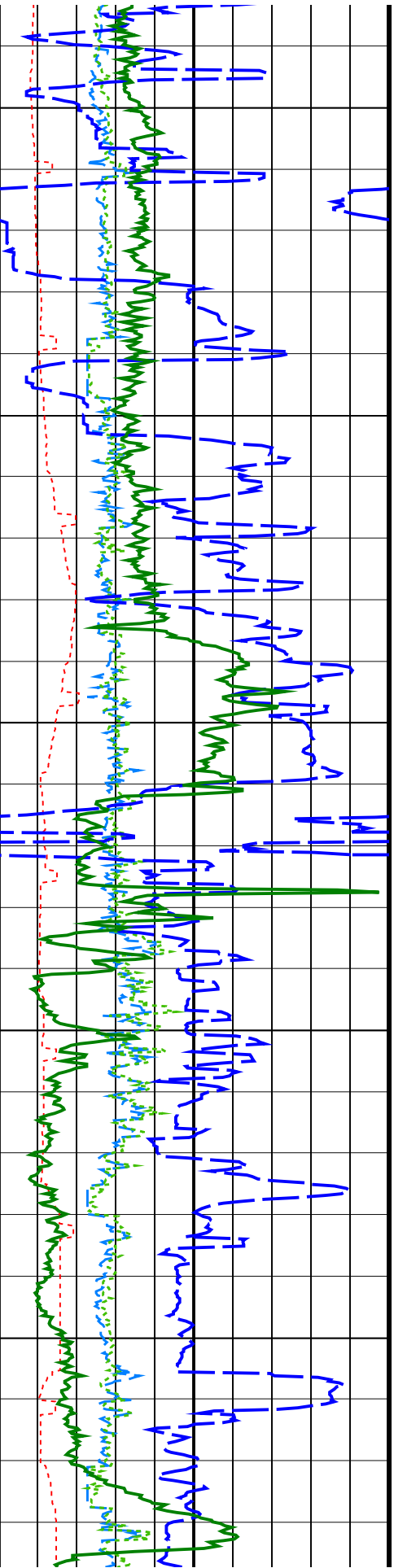


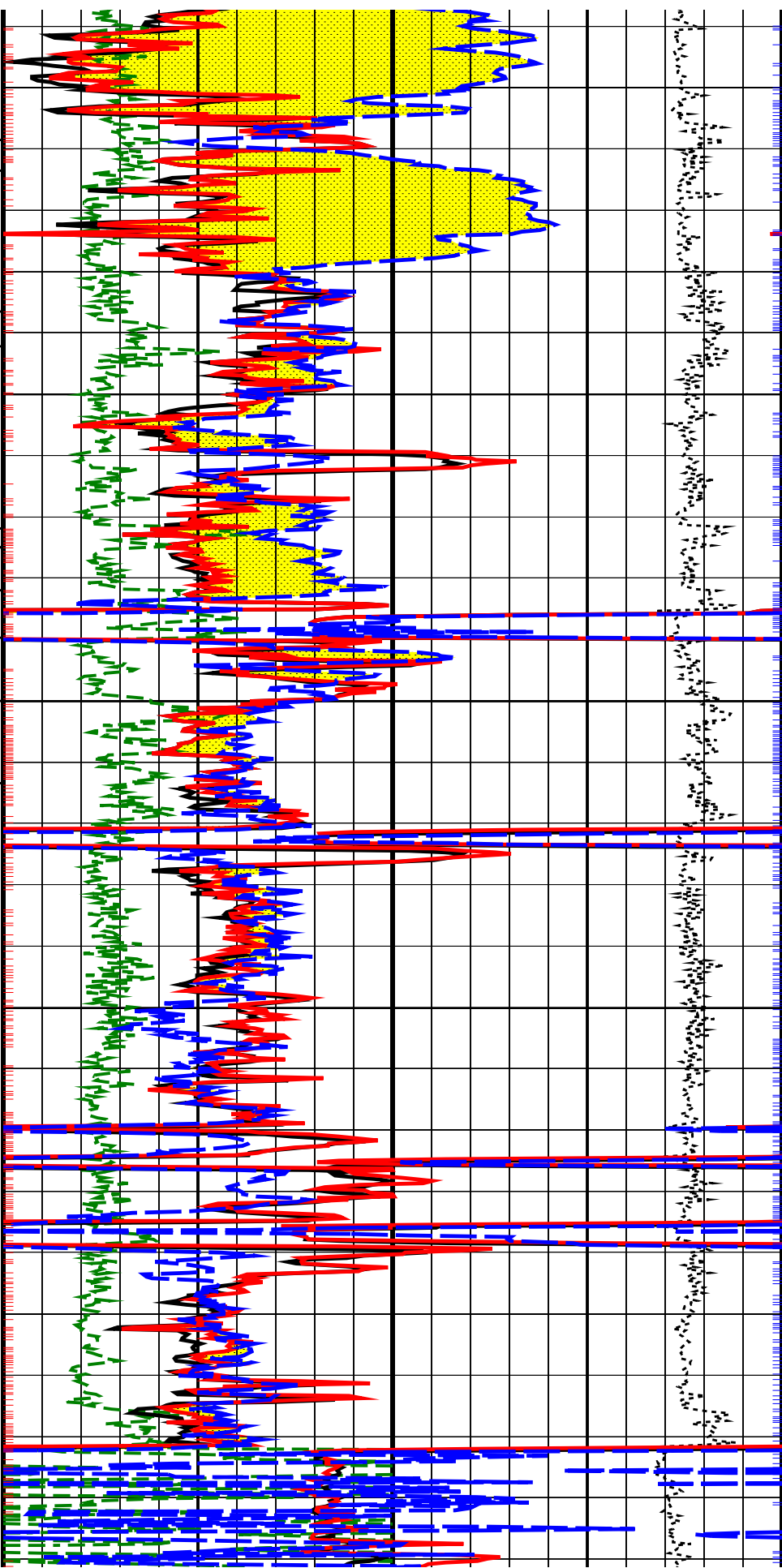
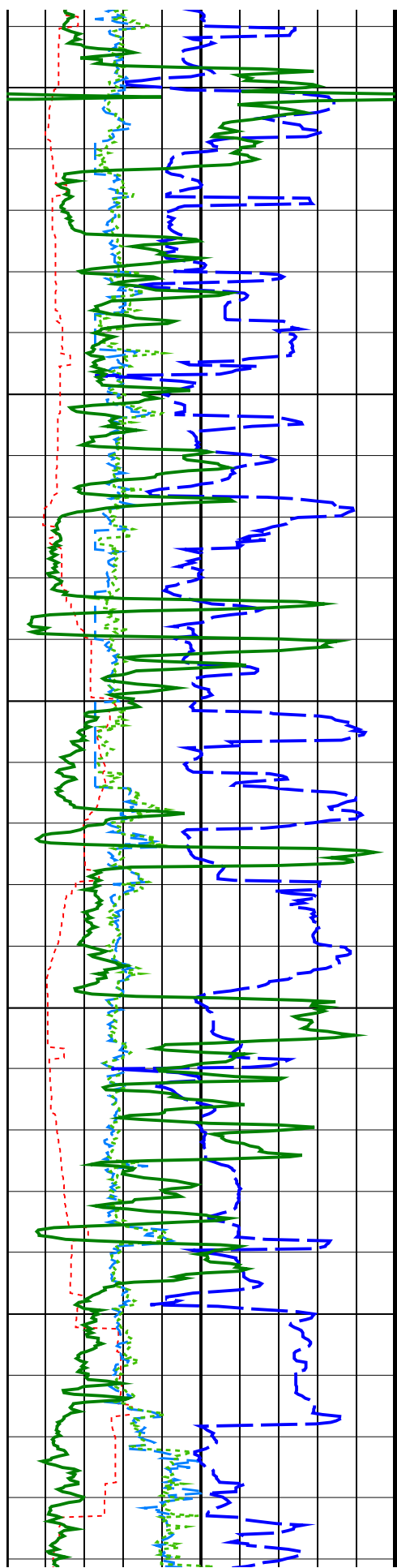




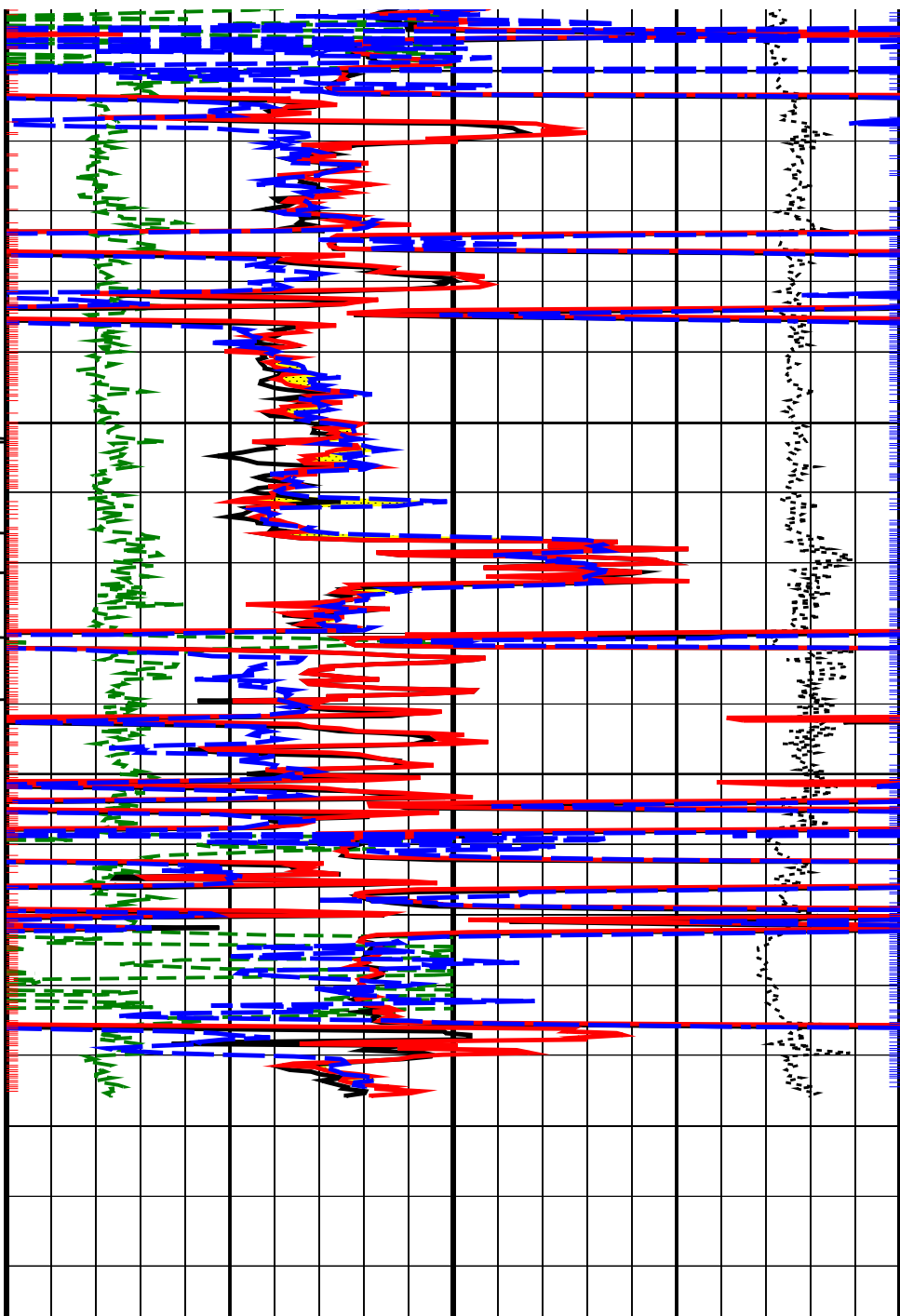
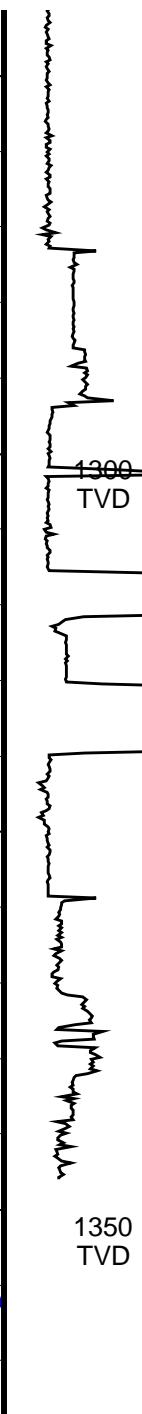
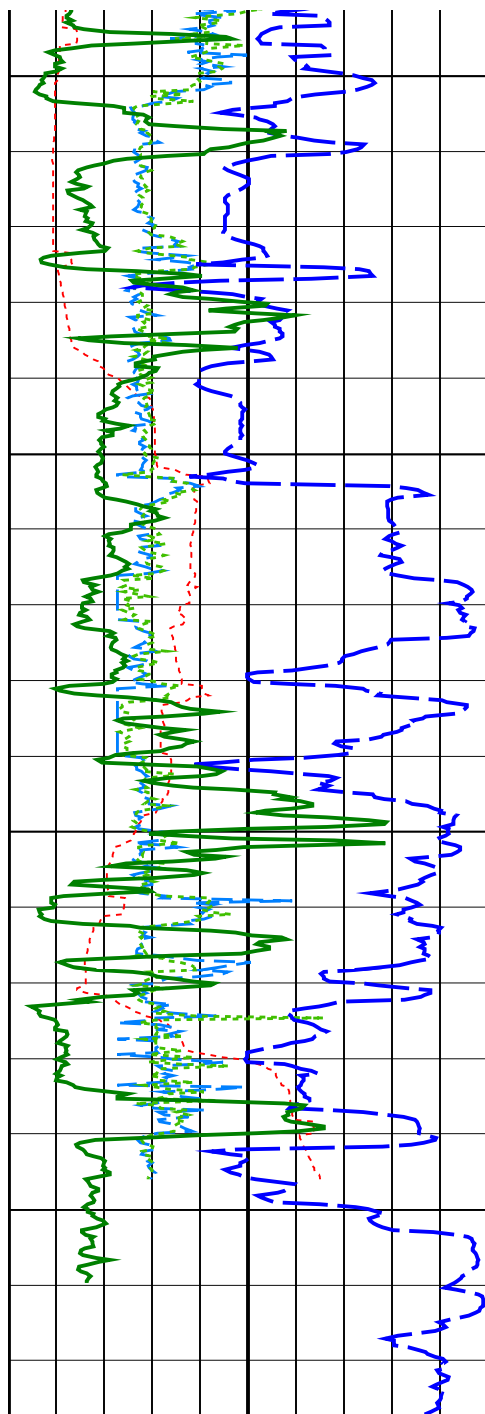
1050  
TVD

1100  
TVD









Density Time After Bit (TAB_DEN) (HR)	0	10
Horizontal Hole Diameter (HORD) (IN)	6	16
Vertical Hole Diameter (VERD) (IN)	6	16
RAB Gamma Ray (GR_RAB) (GAPI)	0	200
Rate of Penetration, Averaged over Last 5% (ROP_AVG)		

ADN Rotational Speed (RPM_ADN) (RPM)	200	0
--	-----	---

Photoelectric Factor, Bottom (PEB) (-----)	0	10
Bulk Density Correction, Bottom (DRHB) (G/C3)	-0.75	0.25
Bulk Density (RHOB) (G/C3)	1.85	2.85
Bulk Density, Bottom (ROBB) (G/C3)	1.85	2.85
Thermal Neutron Porosity (TNPH) (PU)	45	-15
Gas Area		

PIP SUMMARY

Density Samples

Neutron Samples

IDEAL Version: ID8\_OC\_07




IDF

6.75-in. Azimuthal Density Neutron / Equipment Identification

Primary Equipment:  
Tool Name and Serial Number  
Collar Type and Serial Number  
Chassis Type and Serial Number  
  
Neutron Logging Source  
Density Logging Source  
Stabilizer Size  
Calibration Status

ADN6 - CA  
ADDC - AA  
ADSE - EA  
  
NSB - M  
GSR - JZ  
8.25 - in.  
Valid

FE55  
FE55  
380  
  
202  
1994















Master: 4-Jan-2005 21:40														
6.75-in. Azimuthal Density Neutron Calibration														
Density: Magnesium Block														
Phase	LS window 3 – Mg CPS			Value	Phase	SS window 1 – Mg CPS			Value	Phase	SS window 3 – Mg CPS			Value
Master				1041	Master				2505	Master				6228
	250.0	4125	8000		700.0	9350	18000			2500	23750	45000		
	(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)			(Minimum)	(Nominal)	(Maximum)		


Master: 4-Jan-2005 21:40														
6.75-in. Azimuthal Density Neutron Calibration														
Density: Aluminum Block														
Phase	LS window 3 – Al CPS			Value	Phase	SS window 1 – Al CPS			Value	Phase	SS window 3 – Al CPS			Value
Master	<div></div>			156.5	Master	<div></div>			1275	Master	<div></div>			3922
	50.00	725.0	1400			500.0	4250	8000			1500	15750	30000	
	(Minimum)	(Nominal)	(Maximum)			(Minimum)	(Nominal)	(Maximum)			(Minimum)	(Nominal)	(Maximum)	

Master: 4-Jan-2005 21:40														
6.75-in. Azimuthal Density Neutron Calibration														
Density: Background														
Phase	LS window 3 – Background CPS			Value	Phase	SS window 1 – Background CPS			Value	Phase	SS window 3 – Background CPS			Value
Master	<div><div></div></div>			51.03	Master	<div><div></div></div>			129.8	Master	<div><div></div></div>			563.0
	15.00	82.50	150.0		40.00	220.0	400.0		150.0	825.0	1500			
	(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)			







Master: 4-Jan-2005 21:40											
6.75-in. Azimuthal Density Neutron Calibration											
Density: Water Block Check											
Phase	Long spacing water density G/C3			Value	Phase	Short spacing water density G/C3			Value		
Master				1.029	Master				1.116		
	1.024	1.039	1.054			1.096	1.126	1.156			
	(Minimum)	(Nominal)	(Maximum)			(Minimum)	(Nominal)	(Maximum)			







Master: 4-Jan-2005 21:40											
6.75-in. Azimuthal Density Neutron Calibration											
Neutron: Water Tank											
Phase	Far 1 tube 1 gain			Value	Phase	Far 1 tube 1 offset CPS			Value		
Master				1.068	Master				0.06511		
	0.8000	1.050	1.300			-1.000	0	1.000			
	(Minimum)	(Nominal)	(Maximum)			(Minimum)	(Nominal)	(Maximum)			
Phase	Far 1 tube 2 gain			Value	Phase	Far 1 tube 2 offset CPS			Value		


Master		1.013	Master		-0.03114
0.8000 (Minimum)	1.050 (Nominal)	1.300 (Maximum)	-1.000 (Minimum)	0 (Nominal)	1.000 (Maximum)
Phase	Far 1 tube 3 gain	Value	Phase	Far 1 tube 3 offset CPS	Value
Master		1.039	Master		0.01313
0.8000 (Minimum)	1.050 (Nominal)	1.300 (Maximum)	-1.000 (Minimum)	0 (Nominal)	1.000 (Maximum)
Phase	Far 2 tube 1 gain	Value	Phase	Far 2 tube 1 offset CPS	Value
Master		1.096	Master		0.07837
0.8000 (Minimum)	1.050 (Nominal)	1.300 (Maximum)	-1.000 (Minimum)	0 (Nominal)	1.000 (Maximum)
Phase	Far 2 tube 2 gain	Value	Phase	Far 2 tube 2 offset CPS	Value
Master		0.9974	Master		-0.1285
0.8000 (Minimum)	1.050 (Nominal)	1.300 (Maximum)	-1.000 (Minimum)	0 (Nominal)	1.000 (Maximum)
Phase	Far 2 tube 3 gain	Value	Phase	Far 2 tube 3 offset CPS	Value
Master		1.042	Master		0.1064
0.8000 (Minimum)	1.050 (Nominal)	1.300 (Maximum)	-1.000 (Minimum)	0 (Nominal)	1.000 (Maximum)
Phase	Near 1 tube 1 gain	Value	Phase	Near 1 tube 1 offset CPS	Value
Master		0.9812	Master		-40.77
0.8000 (Minimum)	1.050 (Nominal)	1.300 (Maximum)	-100.0 (Minimum)	0 (Nominal)	100.0 (Maximum)
Phase	Near 2 tube 1 gain	Value	Phase	Near 2 tube 1 offset CPS	Value
Master		0.9674	Master		-32.21
0.8000 (Minimum)	1.050 (Nominal)	1.300 (Maximum)	-100.0 (Minimum)	0 (Nominal)	100.0 (Maximum)

Master: 4-Jan-2005 21:40		
6.75-in. Azimuthal Density Neutron Calibration		
Neutron: Water Block Check		
Phase	Far Neutron water porosity PU	Value
Master		103.2
90.00 (Minimum)	100.0 (Nominal)	125.0 (Maximum)

6.75-in. Resistivity At-the-Bit / Equipment Identification		
Primary Equipment:		
Tool Name and Serial Number	RAB6 - CA	191
Calibration Status	Valid	

Master: 28-Jan-2005 18:29											
6.75-in. Resistivity At-the-Bit Calibration											
Resistivity: Fixture											
Phase	Ring/T1 factor		Value	Phase	Ring/T2 factor		Value	Phase	M0/T1 factor		Value
Master			0.9967	Master			0.9942	Master			1.007
0.9750 (Minimum)			1.000 (Nominal)	1.025 (Maximum)			0.9750 (Minimum)			1.000 (Nominal)	1.025 (Maximum)
Phase	M0/T2 factor		Value	Phase	M2/T1 factor		Value	Phase	M2/T2 factor		Value
Master			1.004	Master			1.007	Master			1.004
0.9750 (Minimum)			1.000 (Nominal)	1.025 (Maximum)			0.9750 (Minimum)			1.000 (Nominal)	1.025 (Maximum)

0.9750 (Minimum)1.000 (Nominal)1.025 (Maximum)			0.9750 (Minimum)1.000 (Nominal)1.025 (Maximum)			0.9750 (Minimum)1.000 (Nominal)1.025 (Maximum)					
Phase	BTN shallow/T1 factor		Value	Phase	BTN shallow/T2 factor		Value	Phase	BTN medium/T1 factor		Value
Master			1.003	Master			0.9999	Master			0.9950
0.9750 (Minimum)1.000 (Nominal)1.025 (Maximum)			0.9750 (Minimum)1.000 (Nominal)1.025 (Maximum)			0.9750 (Minimum)1.000 (Nominal)1.025 (Maximum)					
Phase	BTN medium/T2 factor		Value	Phase	BTN deep/T1 factor		Value	Phase	BTN deep/T2 factor		Value
Master			0.9919	Master			1.012	Master			1.009
0.9750 (Minimum)1.000 (Nominal)1.025 (Maximum)			0.9750 (Minimum)1.000 (Nominal)1.025 (Maximum)			0.9750 (Minimum)1.000 (Nominal)1.025 (Maximum)					

Master: 28-Jan-2005 18:29									
6.75-in. Resistivity At-the-Bit Calibration									
Gamma Ray: Blanket									
Phase		Gamma ray factor						Value	
Master								0.9256	
		0.7500 (Minimum)		1.000 (Nominal)		1.250 (Maximum)			

# SCHLUMBERGER

Survey report

6-Mar-2005 15:10:58

Page 1 of 4

Client..... ENSCO  
Field..... Barracouta

Well..... BTA-A4A  
API number.....  
Engineer..... K.Handley, M.Y.Tan, R.Burns

Rig:..... ENSCO 102  
STATE:..... Victoria

Spud date..... 24-Feb-05  
Last survey date..... 06-Mar-05  
Total accepted surveys... 63  
MD of first survey..... 344.00 m  
MD of last survey..... 2108.00 m

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

----- Depth reference -----  
Permanent datum..... Mean Sea Level  
Depth reference..... Driller's Depth  
GL above permanent..... -45.70 m  
KB above permanent..... Top Drive  
DF above permanent..... 56.00 m

----- Vertical section origin-----  
Latitude (+N/S-)..... 0.85 m  
Departure (+E/W-)..... 8.53 m

----- Platform reference point-----  
Latitude (+N/S-)..... -304.57 m  
Departure (+E/W-)..... -304.57 m

Azimuth from Vsect Origin to target: 76.22 degrees

----- Geomagnetic data -----  
Magnetic model..... BGGM version 2004  
Magnetic date..... 22-Feb-2005  
Magnetic field strength... 1201.43 HCNT  
Magnetic dec (+E/W-)..... 12.97 degrees  
Magnetic dip..... -68.87 degrees

----- MWD survey Reference Criteria -----  
Reference G..... 1000.03 mGal  
Reference H..... 1201.43 HCNT  
Reference Dip..... -68.87 degrees  
Tolerance of G..... (+/-) 2.50 mGal  
Tolerance of H..... (+/-) 6.00 HCNT  
Tolerance of Dip..... (+/-) 0.45 degrees

----- Corrections -----  
Magnetic dec (+E/W-)..... 12.97 degrees  
Grid convergence (+E/W-).. -0.42 degrees  
Total az corr (+E/W-)..... 13.39 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

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SCHLUMBERGER Survey Report

6-Mar-2005 15:10:58

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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 Corr
1	344.00	0.25	235.37	0.00	343.99	0.73	0.55	9.36	9.38	86.64	0.00	TIP	None
2	351.60	3.14	130.65	7.60	351.59	0.84	0.40	9.50	9.51	87.56	4.23	GYR	None
3	371.56	6.26	115.73	19.96	371.48	2.00	-0.42	10.90	10.91	92.23	1.67	MWD	None
4	400.60	10.44	98.23	29.04	400.21	5.66	-1.49	14.93	15.01	95.69	1.67	GYR	None
5	430.00	13.39	92.42	29.40	428.97	11.40	-2.01	20.97	21.07	95.48	1.08	MWD	None
6	458.41	16.35	82.38	28.41	456.43	18.54	-1.62	28.22	28.27	93.29	1.38	MWD	None
7	487.44	19.21	75.25	29.03	484.08	27.38	0.14	36.90	36.90	89.79	1.24	MWD	None
8	516.58	22.78	75.14	29.14	511.28	37.82	2.80	46.99	47.07	86.58	1.23	MWD	None
9	545.52	27.31	73.86	28.94	537.49	50.06	6.09	58.79	59.10	84.09	1.58	MWD	None
10	574.63	31.33	72.34	29.11	562.87	64.29	10.24	72.42	73.14	81.95	1.40	MWD	None

11	603.86	34.81	75.42	29.23	587.36	80.22	14.65	87.74	88.95	80.52	1.32	MWD	None
12	632.38	38.27	75.46	28.52	610.27	97.19	18.92	104.17	105.88	79.71	1.21	MWD	None
13	661.80	41.30	75.07	29.42	632.87	116.01	23.71	122.38	124.65	79.04	1.03	MWD	None
14	691.10	45.16	74.90	29.30	654.22	136.07	28.91	141.76	144.67	78.47	1.32	MWD	None
15	719.99	48.91	74.32	28.89	673.90	157.20	34.52	162.13	165.77	77.98	1.31	MWD	None
16	749.12	52.83	74.48	29.13	692.28	179.78	40.59	183.89	188.32	77.55	1.35	MWD	None
17	778.33	56.53	75.07	29.21	709.17	203.61	46.85	206.89	212.13	77.24	1.28	MWD	None
18	806.73	58.42	75.06	28.40	724.44	227.54	53.02	230.02	236.05	77.02	0.67	MWD	None
19	826.51	60.05	75.43	19.78	734.56	244.54	57.35	246.46	253.04	76.90	0.84	MWD	None
20	857.08	60.11	75.02	30.57	749.80	271.03	64.11	272.08	279.53	76.74	0.12	MWD	None
21	885.76	61.34	74.96	28.68	763.83	296.04	70.58	296.24	304.53	76.60	0.43	MWD	None
22	914.88	60.95	74.82	29.12	777.88	321.54	77.23	320.86	330.03	76.47	0.14	MWD	None
23	943.53	60.68	75.21	28.65	791.85	346.55	83.70	345.03	355.03	76.36	0.15	MWD	None
24	972.56	59.77	76.43	29.03	806.27	371.74	89.87	369.45	380.23	76.33	0.48	MWD	None
25	1001.50	59.54	77.10	28.94	820.89	396.72	95.59	393.77	405.20	76.35	0.22	MWD	None
26	1030.64	59.11	76.93	29.14	835.76	421.78	101.22	418.19	430.26	76.39	0.16	MWD	None
27	1059.78	57.85	76.77	29.14	850.99	446.61	106.87	442.38	455.10	76.42	0.43	MWD	None
28	1089.10	58.34	76.70	29.32	866.49	471.50	112.59	466.60	479.99	76.43	0.17	MWD	None
29	1118.03	59.62	78.08	28.93	881.39	496.29	118.00	490.80	504.78	76.48	0.60	MWD	None
30	1147.18	61.65	77.56	29.15	895.69	521.68	123.36	515.63	530.18	76.55	0.71	MWD	None

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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 Corr (deg)
31	1176.44	62.74	77.42	29.26	909.34	547.56	128.96	540.89	556.06	76.59	0.37	MWD	None
32	1205.78	63.29	77.18	29.34	922.65	573.70	134.71	566.40	582.20	76.62	0.20	MWD	None
33	1234.53	63.22	77.02	28.75	935.59	599.37	140.44	591.43	607.87	76.64	0.06	MWD	None
34	1263.41	63.32	74.80	28.88	948.58	625.16	146.72	616.44	633.66	76.61	0.69	MWD	None
35	1292.28	62.74	73.74	28.87	961.67	650.88	153.70	641.21	659.37	76.52	0.38	MWD	None
36	1321.68	61.29	72.83	29.40	975.47	676.80	161.16	666.07	685.29	76.40	0.56	MWD	None
37	1350.51	60.59	72.52	28.83	989.47	701.95	168.67	690.13	710.44	76.27	0.26	MWD	None
38	1379.66	60.36	72.02	29.15	1003.84	727.26	176.39	714.29	735.75	76.13	0.17	MWD	None
39	1408.57	60.11	72.24	28.91	1018.19	752.29	184.09	738.18	760.78	76.00	0.11	MWD	None
40	1437.70	60.53	73.72	29.13	1032.61	777.56	191.50	762.37	786.06	75.90	0.46	MWD	None
41	1466.67	60.32	73.21	28.97	1046.91	802.72	198.67	786.53	811.23	75.82	0.17	MWD	None
42	1494.99	59.98	74.68	28.32	1061.01	827.27	205.46	810.13	835.78	75.77	0.47	MWD	None
43	1524.16	60.08	76.01	29.17	1075.58	852.53	211.85	834.58	861.05	75.76	0.40	MWD	None
44	1553.56	60.34	75.95	29.40	1090.19	878.05	218.04	859.33	886.56	75.76	0.09	MWD	None
45	1582.31	59.93	76.35	28.75	1104.50	902.98	224.00	883.54	911.49	75.77	0.19	MWD	None
46	1611.11	60.27	75.83	28.80	1118.86	927.95	230.01	907.77	936.46	75.78	0.20	MWD	None
47	1640.37	60.83	76.43	29.26	1133.25	953.42	236.11	932.51	961.94	75.79	0.26	MWD	None
48	1669.37	61.92	76.44	29.00	1147.14	978.88	242.08	957.25	987.39	75.81	0.38	MWD	None
49	1697.95	61.74	77.55	28.58	1160.63	1004.07	247.75	981.80	1012.58	75.84	0.35	MWD	None
50	1727.34	61.10	76.95	29.39	1174.69	1029.88	253.45	1006.98	1038.38	75.87	0.28	MWD	None
51	1756.52	60.74	76.03	29.18	1188.87	1055.38	259.41	1031.77	1063.88	75.89	0.30	MWD	None
52	1785.84	61.68	75.81	29.32	1202.99	1081.07	265.66	1056.69	1089.58	75.89	0.33	MWD	None
53	1814.73	60.60	74.63	28.89	1216.94	1106.37	272.11	1081.16	1114.88	75.87	0.52	MWD	None
54	1843.93	59.17	75.44	29.20	1231.59	1131.62	278.63	1105.56	1140.13	75.85	0.55	MWD	None
55	1873.01	60.22	75.24	29.08	1246.26	1156.72	284.99	1129.85	1165.24	75.84	0.37	MWD	None
56	1901.51	60.30	75.12	28.50	1260.40	1181.47	291.32	1153.77	1189.98	75.83	0.05	MWD	None
57	1930.50	59.14	74.53	28.99	1275.02	1206.49	297.87	1177.93	1215.01	75.81	0.44	MWD	None
58	1959.59	60.04	74.44	29.09	1289.74	1231.57	304.58	1202.11	1240.09	75.78	0.31	MWD	None
59	1988.62	60.66	73.85	29.03	1304.10	1256.78	311.47	1226.37	1265.31	75.75	0.28	MWD	None
60	2017.48	61.16	73.65	28.86	1318.14	1281.98	318.53	1250.59	1290.51	75.71	0.18	MWD	None

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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 Corr (deg)
61	2046.69	59.38	74.45	29.21	1332.62	1307.32	325.50	1274.97	1315.87	75.68	0.65	MWD	None
62	2075.98	59.44	74.58	29.29	1347.53	1332.52	332.24	1299.27	1341.08	75.66	0.04	MWD	None
63	2108.00	59.44	74.48	32.02	1363.81	1360.08	339.59	1325.84	1368.64	75.63	0.03	Projection to TD	

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Well: **BTA-A4A**

Field: **Barracouta**

Rig: **ENSCO 102**8.5 in. Section

State: **Victoria**

GeoVISION Density Neutron

1:500 True Vertical Depth

Recorded Mode Log