

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								
Environmental data											
GR											
Mud weight	ppg	10.0	10.0								
Bit size	in.	8.5	8.5								
Resistivity											
Neutron porosity											
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.

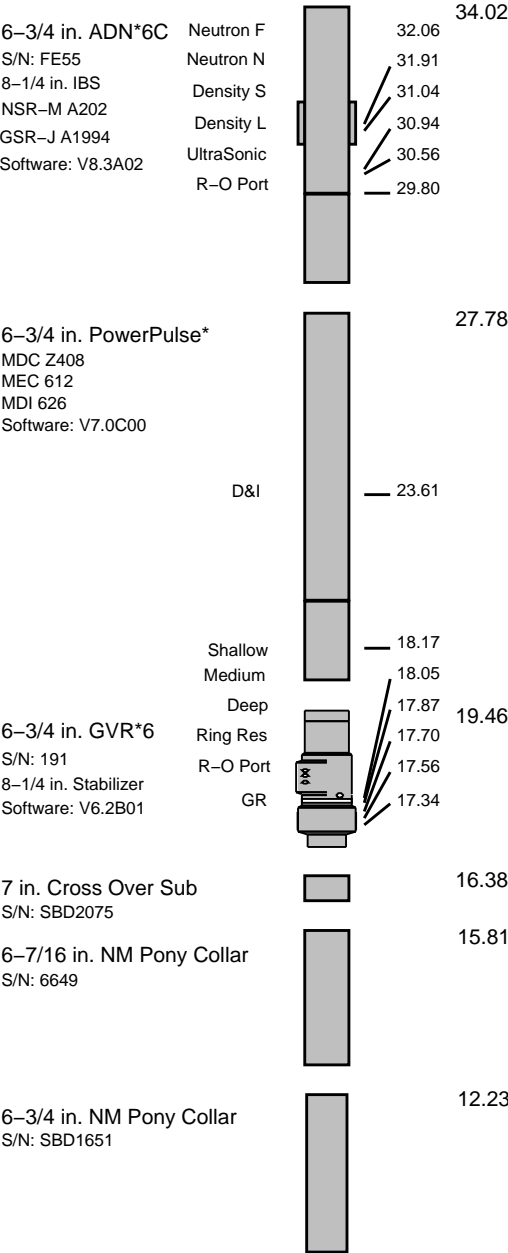
EQUIPMENT DESCRIPTION

RUN2

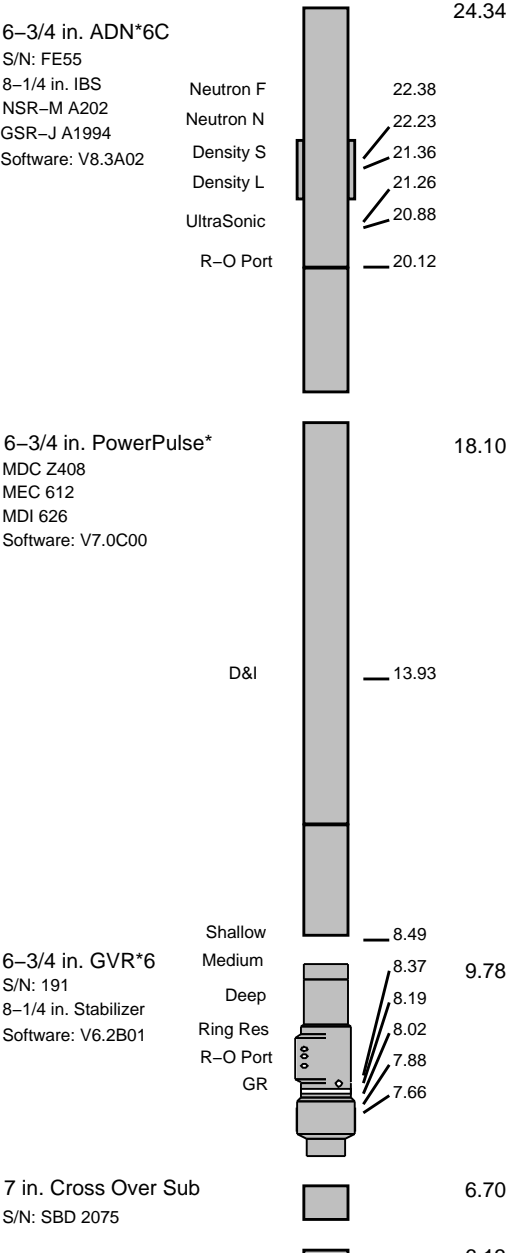
RUN3







RUN

DOWNHOLE EQUIPMENT

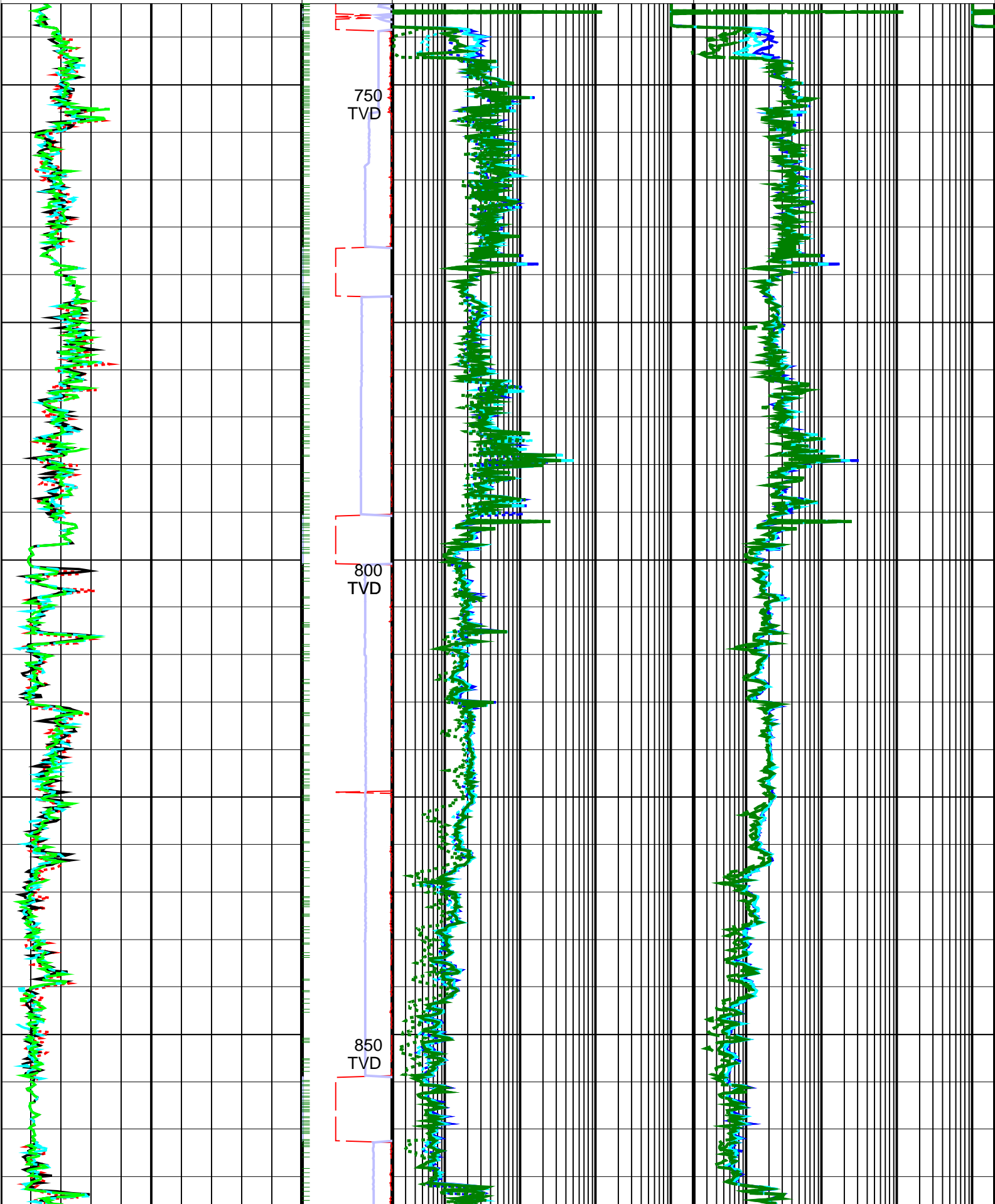


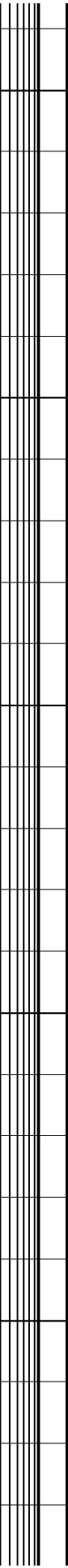
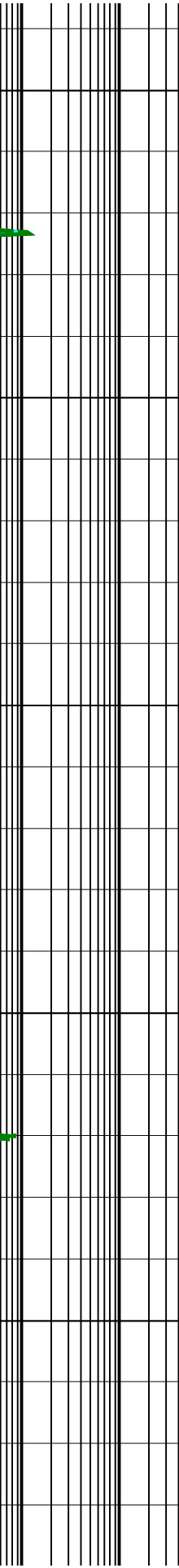
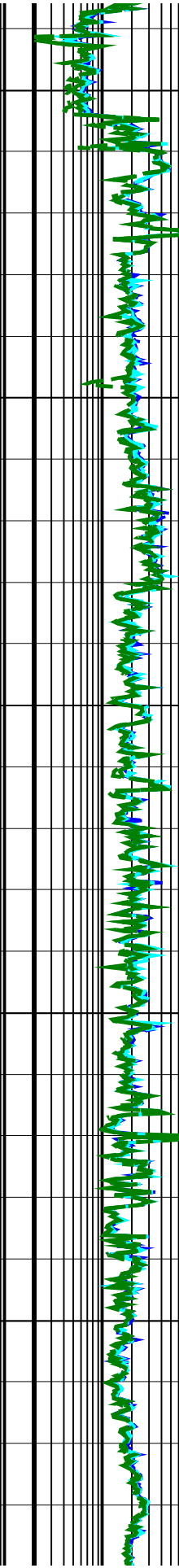
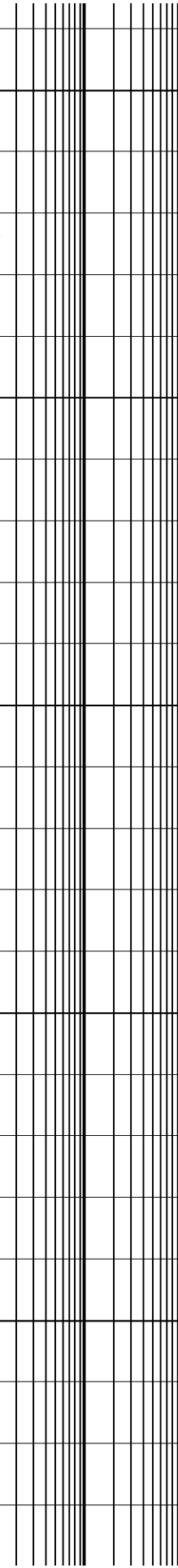
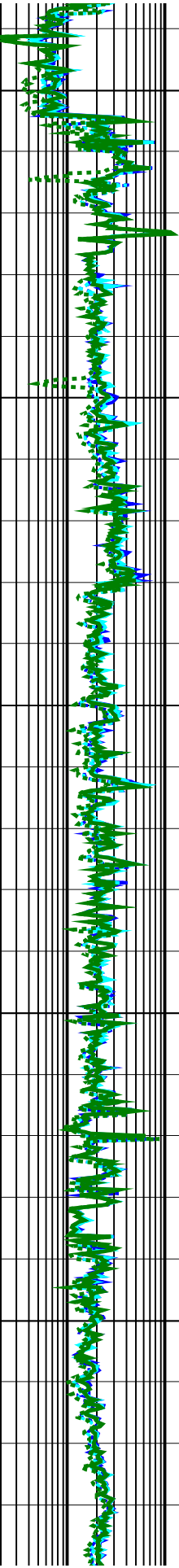
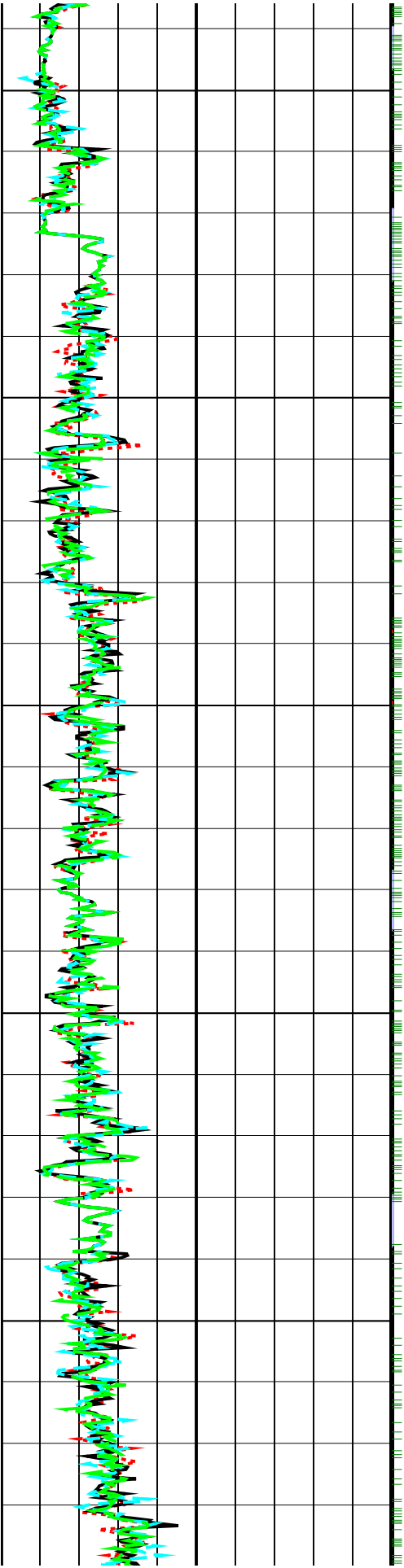
DOWNHOLE EQUIPMENT

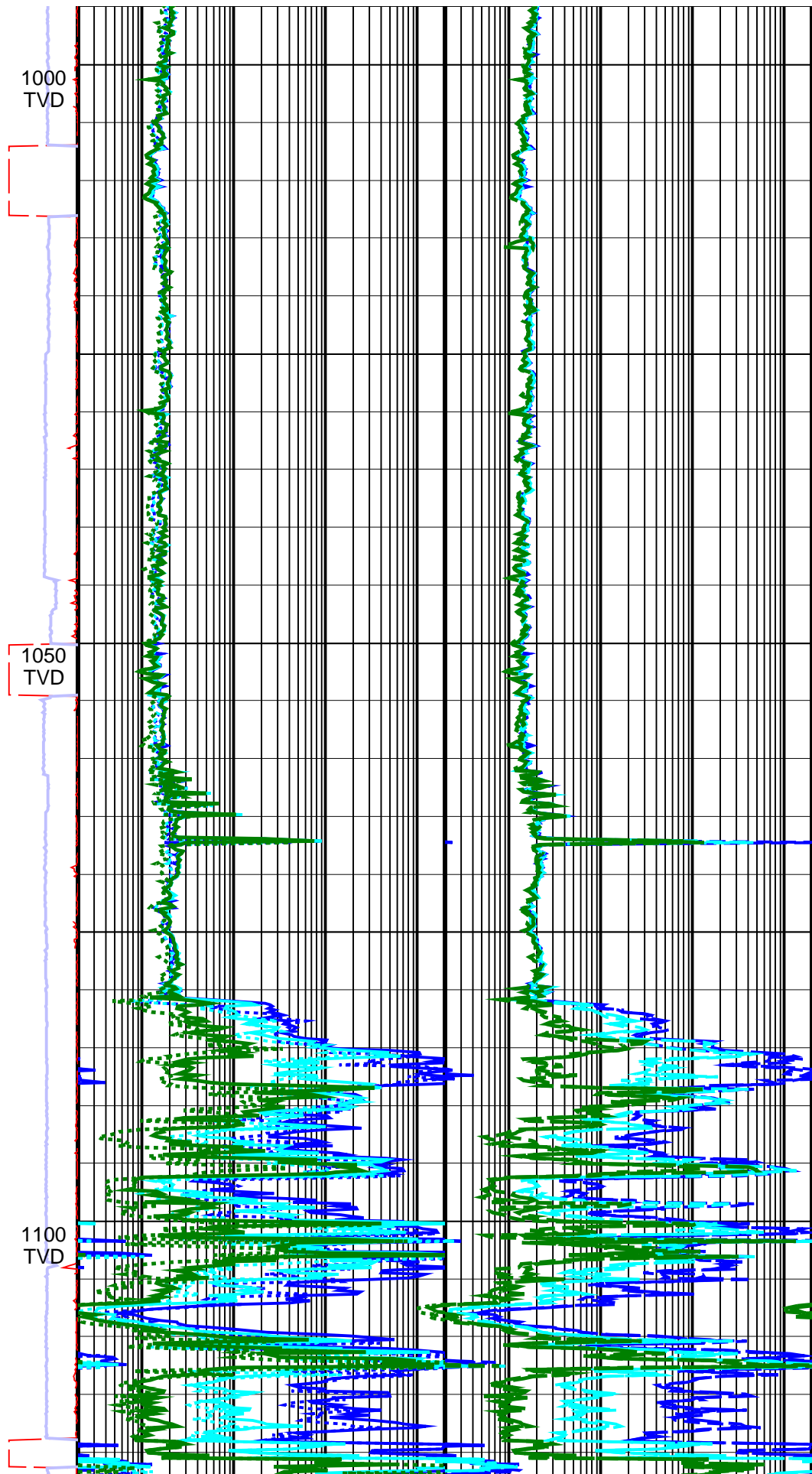
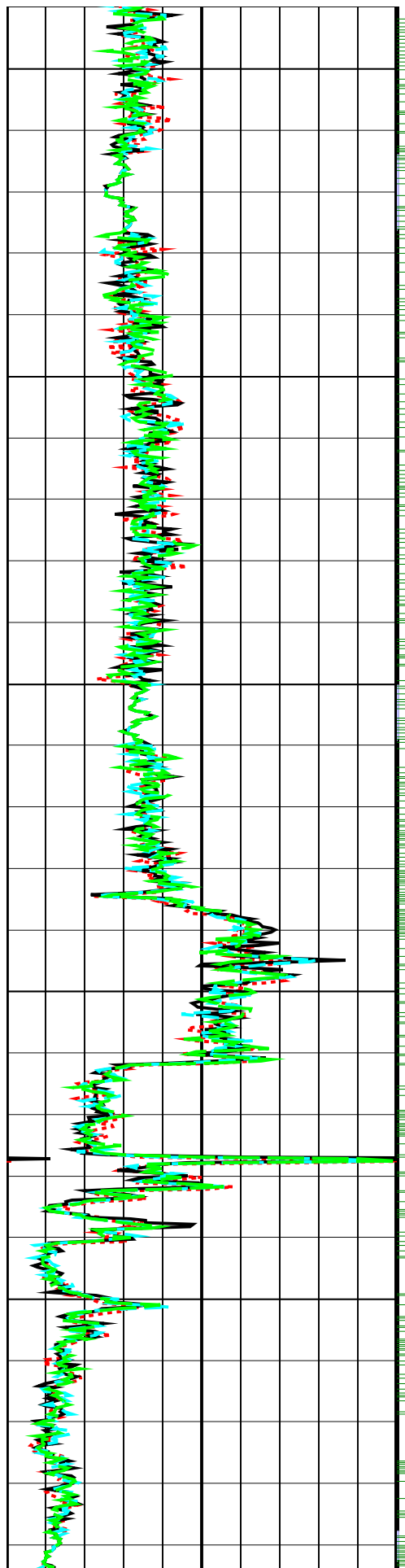


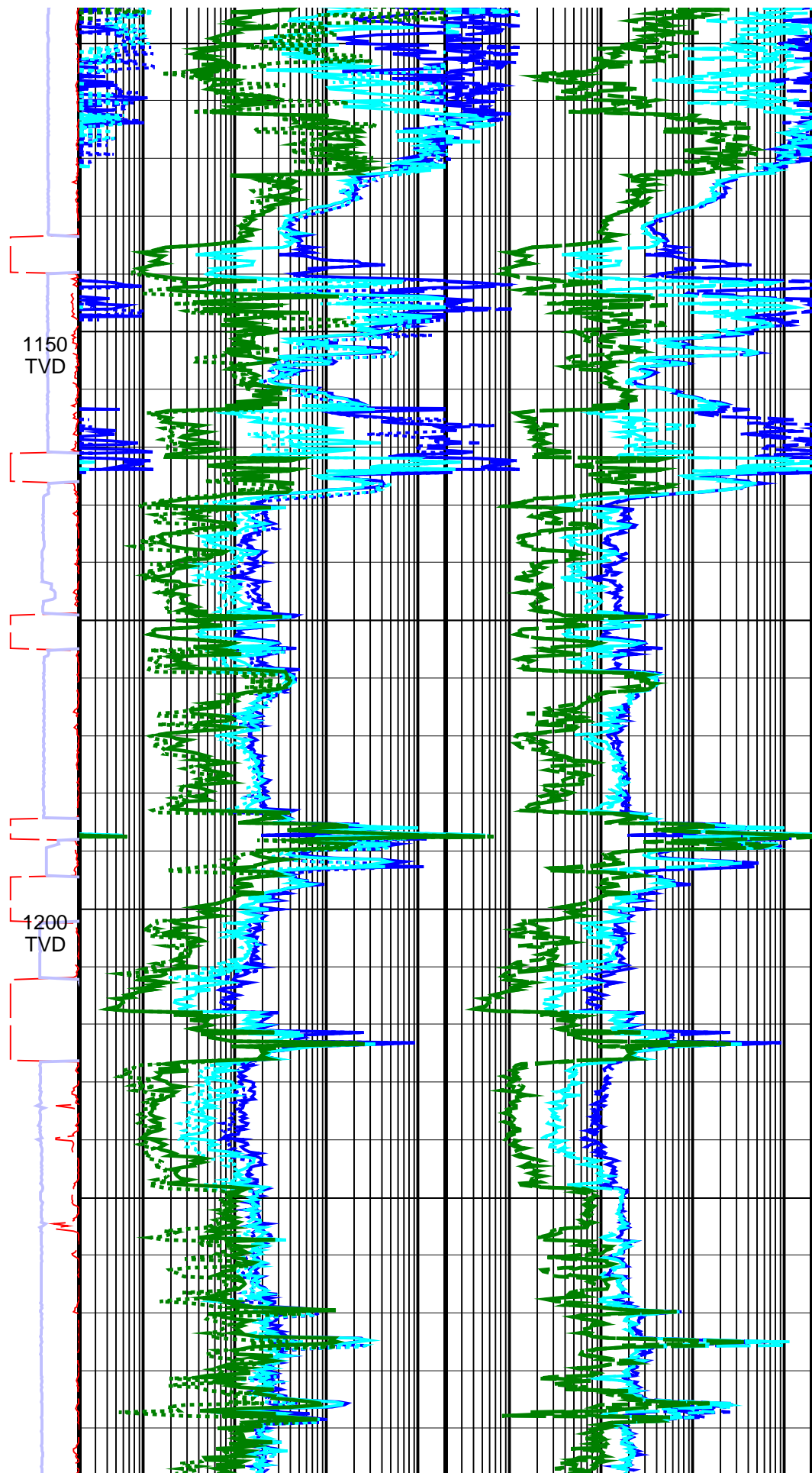
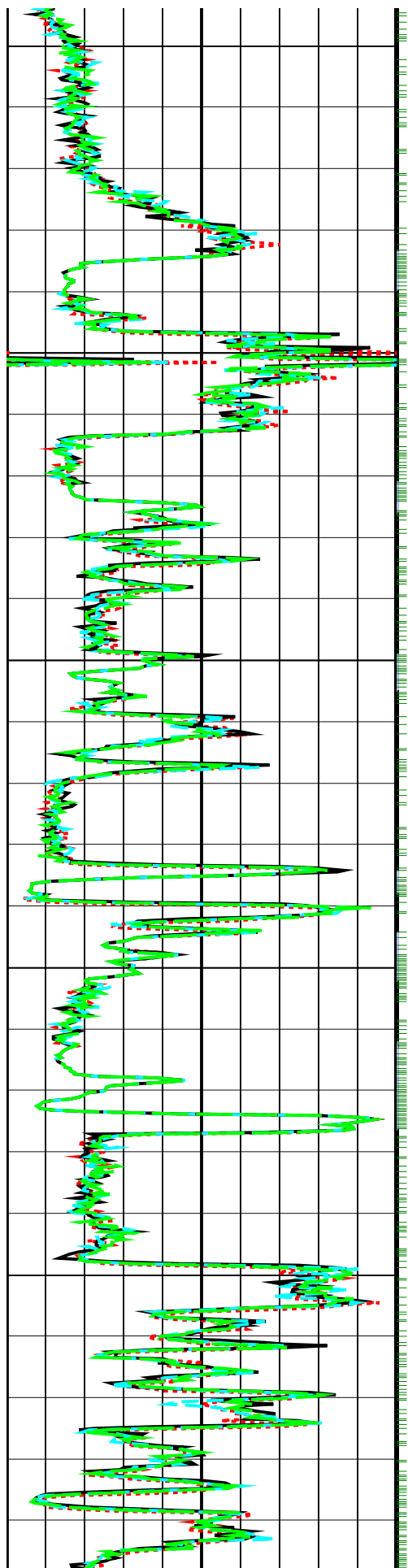
<p>PowerPak* Mud Motor A700GT S/N: 7062 1.15 deg Bend 8-3/8 in. Motor Sleeve</p>  <p>9.18</p> <p>Reed Hycalog PDC Bit RSX272 S/N: 110936 OD 8-1/2 in.</p>  <p>0.00 0.25</p> <p>Maximum string diameter 8.50 in. All lengths in Meters</p>	<p>6-3/4 in. NM Pony Collar S/N: SBD1651</p>  <p>0.13</p> <p>8-1/4 in. Stabilizer S/N: S11773</p>  <p>3.08</p> <p>6-13/16 in. Bit Sub S/N: E102-25</p>  <p>1.22</p> <p>Reed Hycalog PDC Bit DSX210GUW S/N: 110575 OD 8-1/2 in.</p>  <p>0.00 0.30</p> <p>Maximum string diameter 8.50 in. All lengths in Meters</p>	
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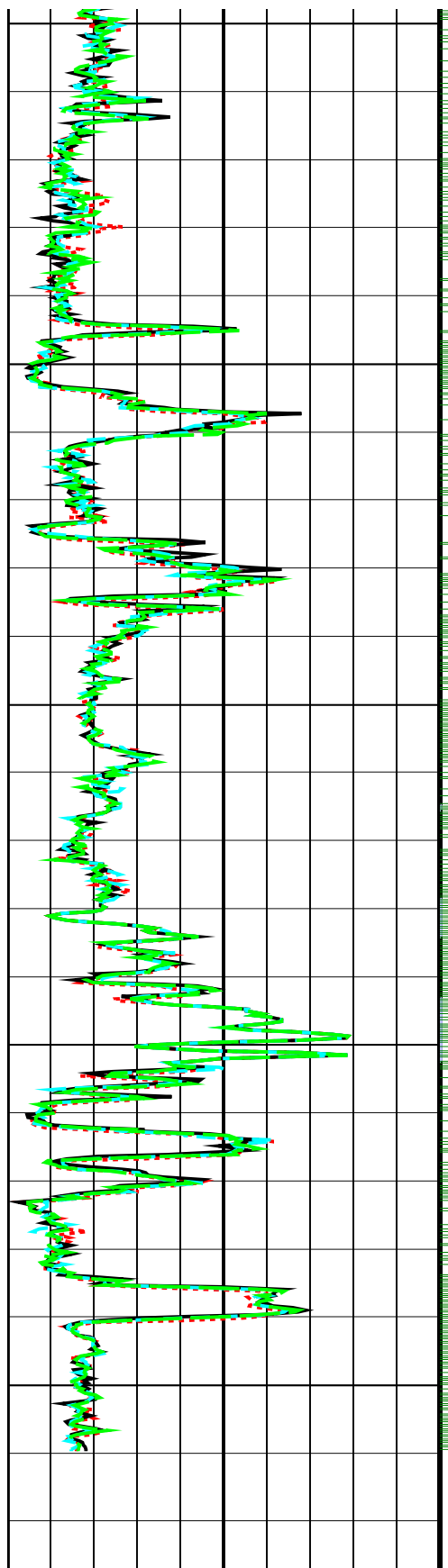
True Vertical Depth Log				
IDEAL Version: ID8_OC_07 IDF				
Format: GeoVISION Quad Resistivity Log		Vertical Scale: 1:500		
Graphics File Created: 07-Mar-2005 12:44				
PIP SUMMARY				
└ Gamma Ray Samples				
<div><div>Shallow Button Resistivity, Down (RES_BS_DN)</div><div>0.2 (OHMM) 2000</div></div> <div><div>Shallow Button Resistivity, Up (RES_BS_UP)</div><div>0.2 (OHMM) 2000</div></div> <div><div>RAB Gamma Ray, Right (GR_RAB_RG)</div><div>0 (GAPI) 200</div></div> <div><div>RAB Gamma Ray, Left (GR_RAB_LF)</div><div>0 (GAPI) 200</div></div>	<div><div>Shallow Button Resistivity, Right (RES_BS_RG)</div><div>0.2 (OHMM) 2000</div></div> <div><div>Shallow Button Resistivity, Left (RES_BS_LF)</div><div>0.2 (OHMM) 2000</div></div> <div><div>Medium Button Resistivity, Down (RES_BM_DN)</div><div>0.2 (OHMM) 2000</div></div> <div><div>Medium Button Resistivity, Up (RES_BM_UP)</div><div>0.2 (OHMM) 2000</div></div>	<div><div>Deep Button Resistivity, Down (RES_BD_DN)</div><div>0.2 (OHMM) 2000</div></div> <div><div>Deep Button Resistivity, Up (RES_BD_UP)</div><div>0.2 (OHMM) 2000</div></div>	<div><div>Deep Button Resistivity, Right (RES_BD_RG)</div><div>0.2 (OHMM) 2000</div></div> <div><div>Deep Button Resistivity, Left (RES_BD_LF)</div><div>0.2 (OHMM) 2000</div></div>	
				<div><div>RAB Gamma Ray, Down (GR_RAB_DN)</div><div>0 (GAPI) 200</div></div> <div><div>RAB Rotational Speed (RPM_RAB) (RPM)</div><div>400 0</div></div> <div><div>RAB Gamma Ray, Up (GR_RAB_UP)</div><div>0 (GAPI) 200</div></div> <div><div>Angular Acceleration Indicator (AAI) (----)</div><div>400 0</div></div>





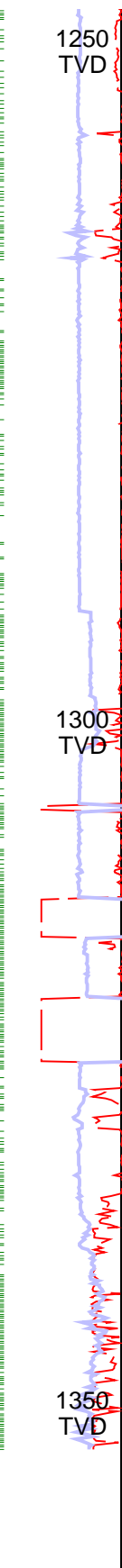






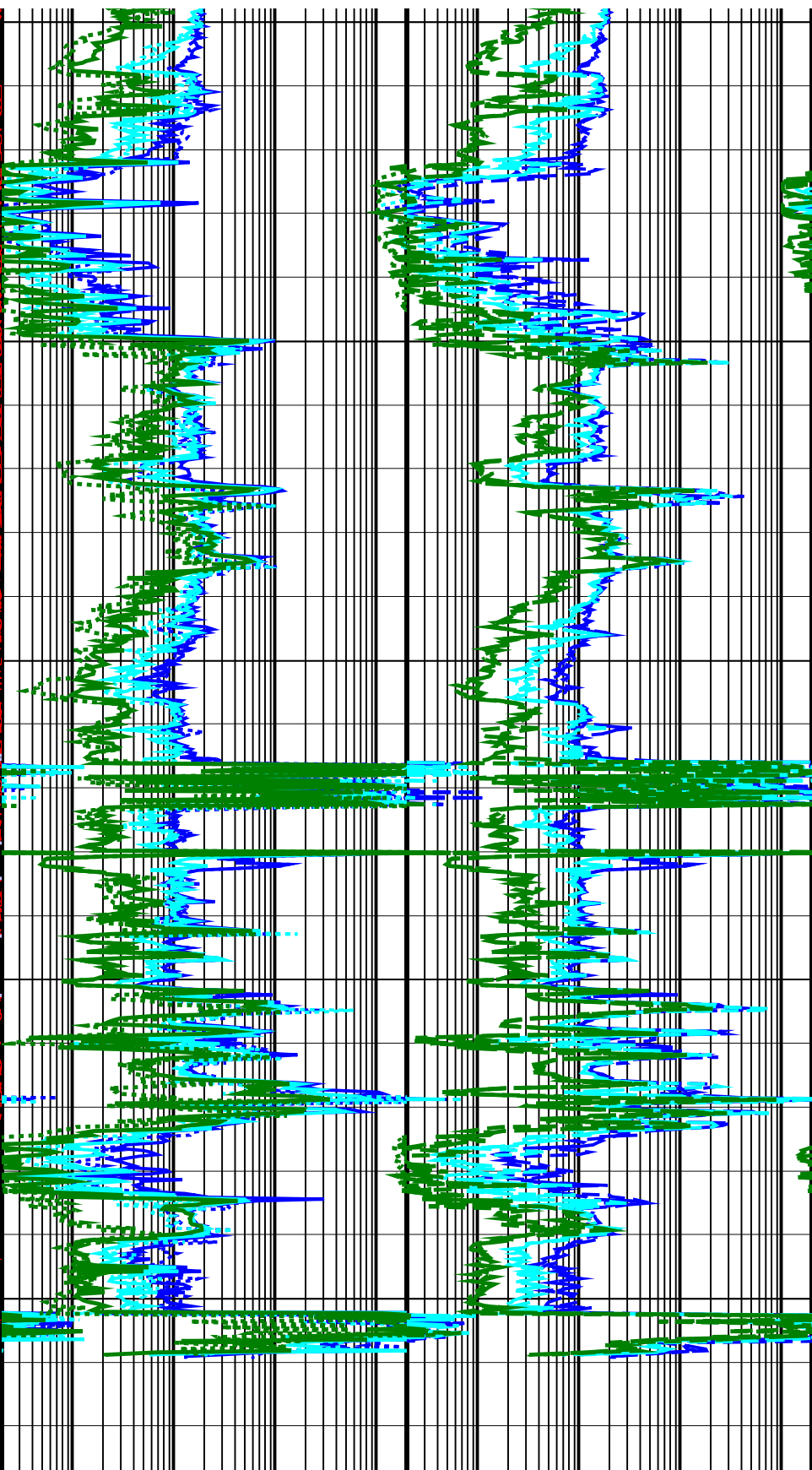
RAB Gamma Ray, Up (GR_RAB_UP)
(GAPI)

0 200



Angular
Acceleratio
n Indicator
(AAI)
(----

400 0



Deep Button Resistivity, Up (RES_BD_UP)
(OHMM)

0.2 2000

Deep Button Resistivity, Left (RES_BD_LF)
(OHMM)

0.2 2000

<div> <div>RAB Gamma Ray, Down (GR_RAB_DN)</div> <div>0 (GAPI) 200</div> </div> <div> <div>RAB Gamma Ray, Left (GR_RAB_LF)</div> <div>0 (GAPI) 200</div> </div> <div> <div>RAB Gamma Ray, Right (GR_RAB_RG)</div> <div>0 (GAPI) 200</div> </div>	<div>RAB Rotational Speed (RPM_RAB) (RPM)</div> <div>400 0</div>	<div>Deep Button Resistivity, Down (RES_</div> <div>BD_DN)</div> <div>0.2 (OHMM) 2000</div>	<div>Deep Button Resistivity, Right (RES_</div> <div>BD_RG)</div> <div>0.2 (OHMM) 2000</div>
		<div>Medium Button Resistivity, Up (RES_</div> <div>BM_UP)</div> <div>0.2 (OHMM) 2000</div>	<div>Medium Button Resistivity, Left (RES_</div> <div>BM_LF)</div> <div>0.2 (OHMM) 2000</div>
		<div>Medium Button Resistivity, Down (RES_</div> <div>BM_DN)</div> <div>0.2 (OHMM) 2000</div>	<div>Medium Button Resistivity, Right (RES_</div> <div>BM_RG)</div> <div>0.2 (OHMM) 2000</div>
		<div>Shallow Button Resistivity, Up (RES_</div> <div>BS_UP)</div> <div>0.2 (OHMM) 2000</div>	<div>Shallow Button Resistivity, Left (RES_</div> <div>BS_LF)</div> <div>0.2 (OHMM) 2000</div>
		<div>Shallow Button Resistivity, Down (RES_</div> <div>BS_DN)</div> <div>0.2 (OHMM) 2000</div>	<div>Shallow Button Resistivity, Right (RES_</div> <div>BS_RG)</div> <div>0.2 (OHMM) 2000</div>




<div>PIP SUMMARY</div> <div>Gamma Ray Samples</div>
<div>IDEAL Version: ID8_0C_07</div> <div>IDF</div>
<div>True Vertical Depth Log</div>

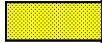

<div>6.75–in. Azimuthal Density Neutron / Equipment Identification</div>		
<div>Primary Equipment:</div> <div>Tool Name and Serial Number</div> <div>Collar Type and Serial Number</div> <div>Chassis Type and Serial Number</div> <div>Neutron Logging Source</div> <div>Density Logging Source</div> <div>Stabilizer Size</div> <div>Calibration Status</div>	<div>ADN6 – CA</div> <div>ADDC – AA</div> <div>ADSE – EA</div> <div>NSR – M</div> <div>GSR – J/Z</div> <div>8.25 – in.</div> <div>Valid</div>	<div>FE55</div> <div>FE55</div> <div>380</div> <div>202</div> <div>1994</div>

















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
Master	<div> <div></div> </div>			1041	Master	<div> <div></div> </div>			2505
	250.0 (Minimum)	4125 (Nominal)	8000 (Maximum)			700.0 (Minimum)	9350 (Nominal)	18000 (Maximum)	
Phase	SS window 3 – Mg CPS			Value	Phase	SS window 3 – Al CPS			Value
Master	<div> <div></div> </div>			6228	Master	<div> <div></div> </div>			3922
	2500 (Minimum)	23750 (Nominal)	45000 (Maximum)			1500 (Minimum)	15750 (Nominal)	30000 (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
Master	<div> <div></div> </div>			156.5	Master	<div> <div></div> </div>			1275
	50.00 (Minimum)	725.0 (Nominal)	1400 (Maximum)			500.0 (Minimum)	4250 (Nominal)	8000 (Maximum)	
Phase	SS window 3 – Al CPS			Value	Phase	SS window 3 – Background CPS			Value
Master	<div> <div></div> </div>			3922	Master	<div> <div></div> </div>			3922
	1500 (Minimum)	15750 (Nominal)	30000 (Maximum)			1500 (Minimum)	15750 (Nominal)	30000 (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
	<div> <div></div> </div>					<div> <div></div> </div>			
	50.00 (Minimum)	725.0 (Nominal)	1400 (Maximum)			500.0 (Minimum)	4250 (Nominal)	8000 (Maximum)	
Phase	SS window 3 – Background CPS			Value	Phase	SS window 3 – Background CPS			Value
	<div> <div></div> </div>					<div> <div></div> </div>			
	1500 (Minimum)	15750 (Nominal)	30000 (Maximum)			1500 (Minimum)	15750 (Nominal)	30000 (Maximum)	

Master		51.03	Master		129.8	Master		563.0
15.00 (Minimum)	82.50 (Nominal)	150.0 (Maximum)	40.00 (Minimum)	220.0 (Nominal)	400.0 (Maximum)	150.0 (Minimum)	825.0 (Nominal)	1500 (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		
Master				1.029	Master			
1.024 (Minimum)	1.039 (Nominal)	1.054 (Maximum)			1.096 (Minimum)	1.126 (Nominal)	1.156 (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			
0.8000 (Minimum)	1.050 (Nominal)	1.300 (Maximum)			-1.000 (Minimum)	0 (Nominal)	1.000 (Maximum)	
Phase	Far 1 tube 2 gain			Value	Phase	Far 1 tube 2 offset CPS		Value
Master				1.013	Master			
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			
0.8000 (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			
0.8000 (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			
0.8000 (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			
0.8000 (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			
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			
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

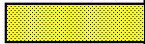
Resistivity: Fixture

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)		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)
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.....: ESSO
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

----- Geomagnetic data -----
Magnetic model.....: BGM 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

----- Platform reference point-----

Latitude (+N/S-).....: -304.57 m
Departure (+E/W-).....: -304.57 m

Azimuth from Vsect Origin to target: 76.22 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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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)
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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Company: **ESSO Australia Pty. Ltd.**

Schlumberger

Well: **BTA-A4A**

Field: **Barracouta**

Rig: **ENSCO 102**

8.5 in. Section

State: **Victoria**

**GeoVISION Quadrant Resistivity
1:500 True Vertical Depth
Recorded Mode Log**