

Thank You for Choosing Schlumberger

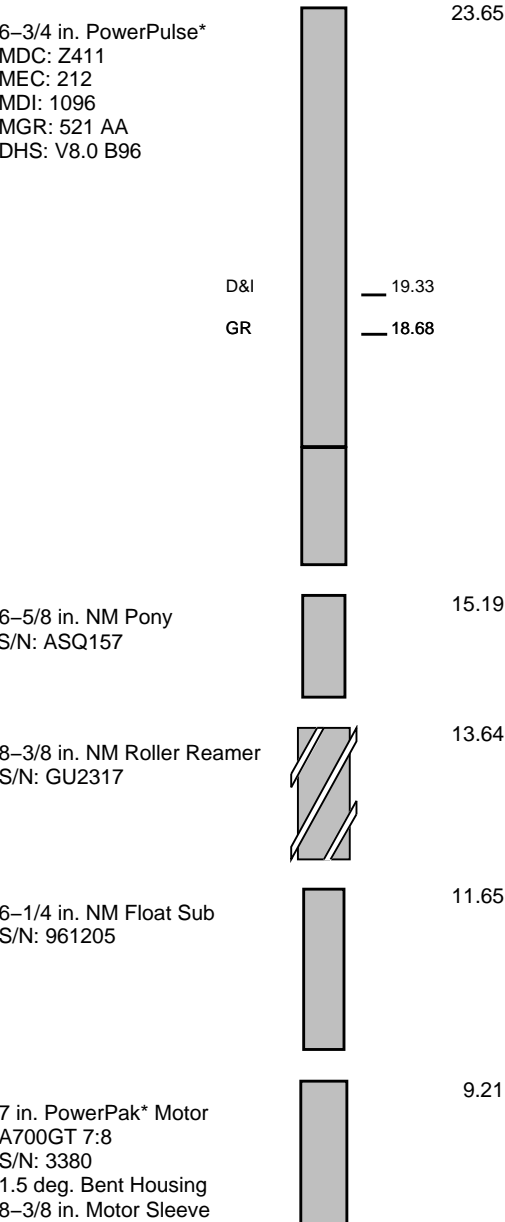
EQUIPMENT DESCRIPTION

RUN3

RUN

RUN

DOWNHOLE EQUIPMENT





0.00

0.22

Smith PDC Bit
OD: 8–1/2 in.
S73VPX S/N: JT6967

Maximum string diameter 8.50 in.
All lengths in Meters

Bit Run Summary

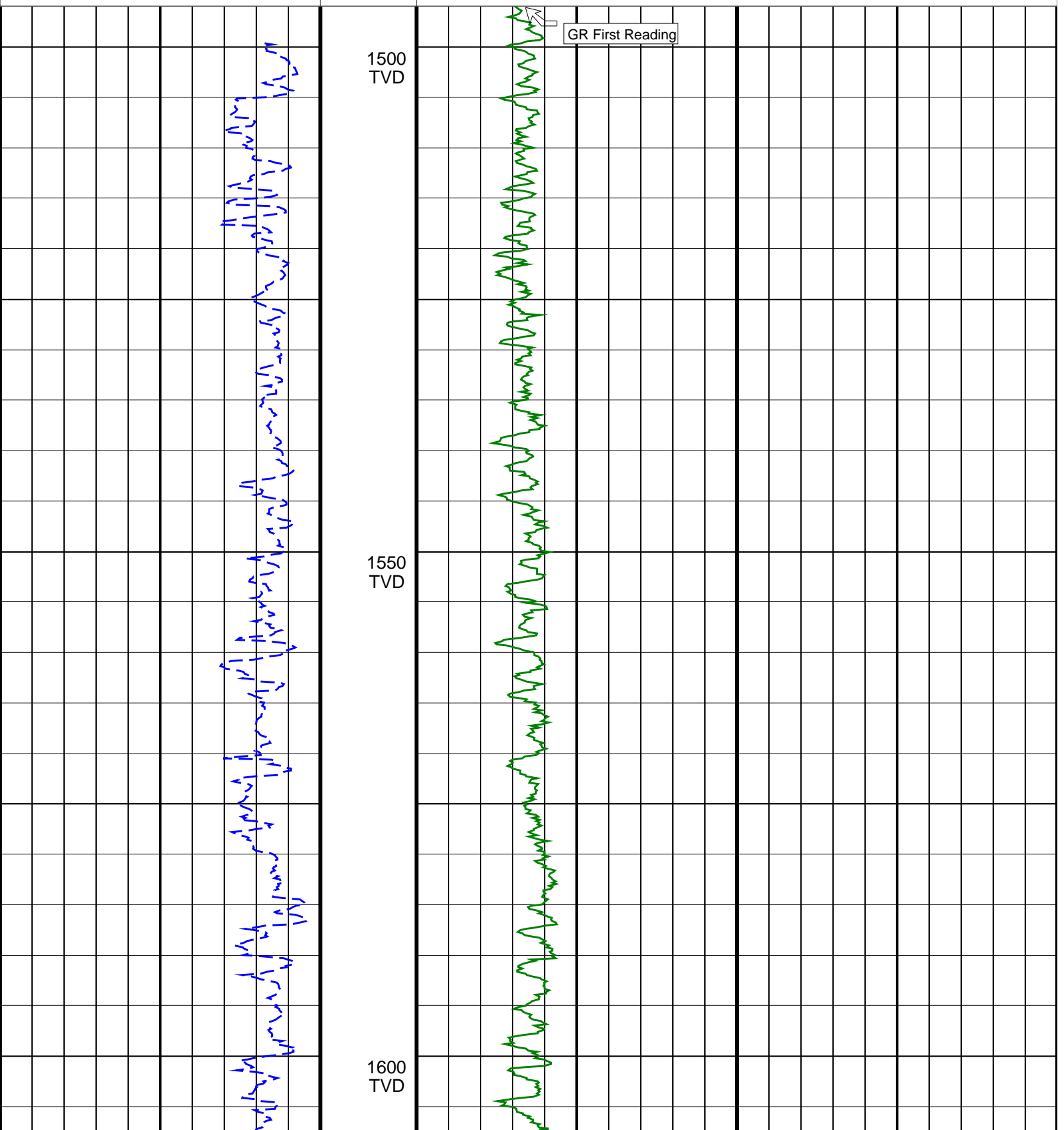
Run number		1									
Bit size	in.	8.5									
Bit start depth	m	2248.0									
Bit end depth	m	3302.0									
Top interval logged	m	2241.0									
Bottom interval logged	m	3282.6									
Begin log: time		10:10									
Begin log: date		09–Jul–05									
End log: time		18:23									
End log: date		11–Jul–05									
Mud data											
Depth	m	3302.0									
Type		KCl/PHPA/Gly.									
Mud weight	ppg	9.95									
Solids	%	7.4									
Chlorides	mg/L	46,500									
Rm		N/A									
Rmf		N/A									
Rmc		N/A									
Potassium	%	4.2									
Environmental data											
GR											
Mud weight	ppg	9.95									
Bit size	in.	8.5									
Resistivity											
Neutron porosity											
Hole Size		N/A									
Mud weight		N/A									
Temperature		N/A									
Mud salinity		N/A									
Formation salinity		N/A									
Recording rate 1	SEC	9.47									
Recording rate 2	SEC	N/A									
Filtering GR		3 pt.									
Filtering density		N/A									
Filtering Neutron		N/A									
Company representative		G. Campbell	B. Steel	W. Westman							
Schlumberger D&M Personnel		R. Borjas	L. Johnston	C. Cocks	L. Muskett						

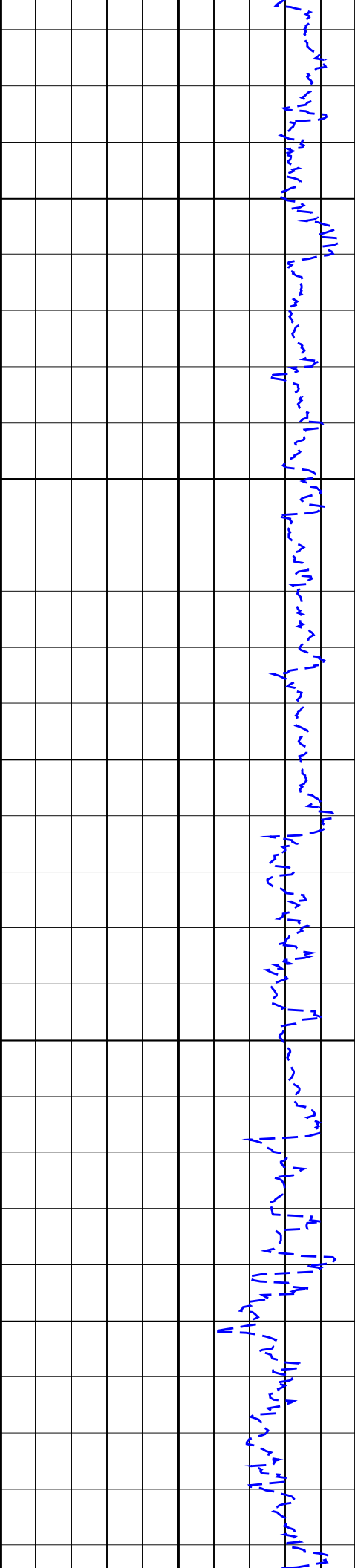
BMA A23A RT 1:500 TVD

IDEAL Version: ID10_2B_08 <TVD> Vertical Scale: 1:500

Graphics File Created: 12-Jul-2005 21:20

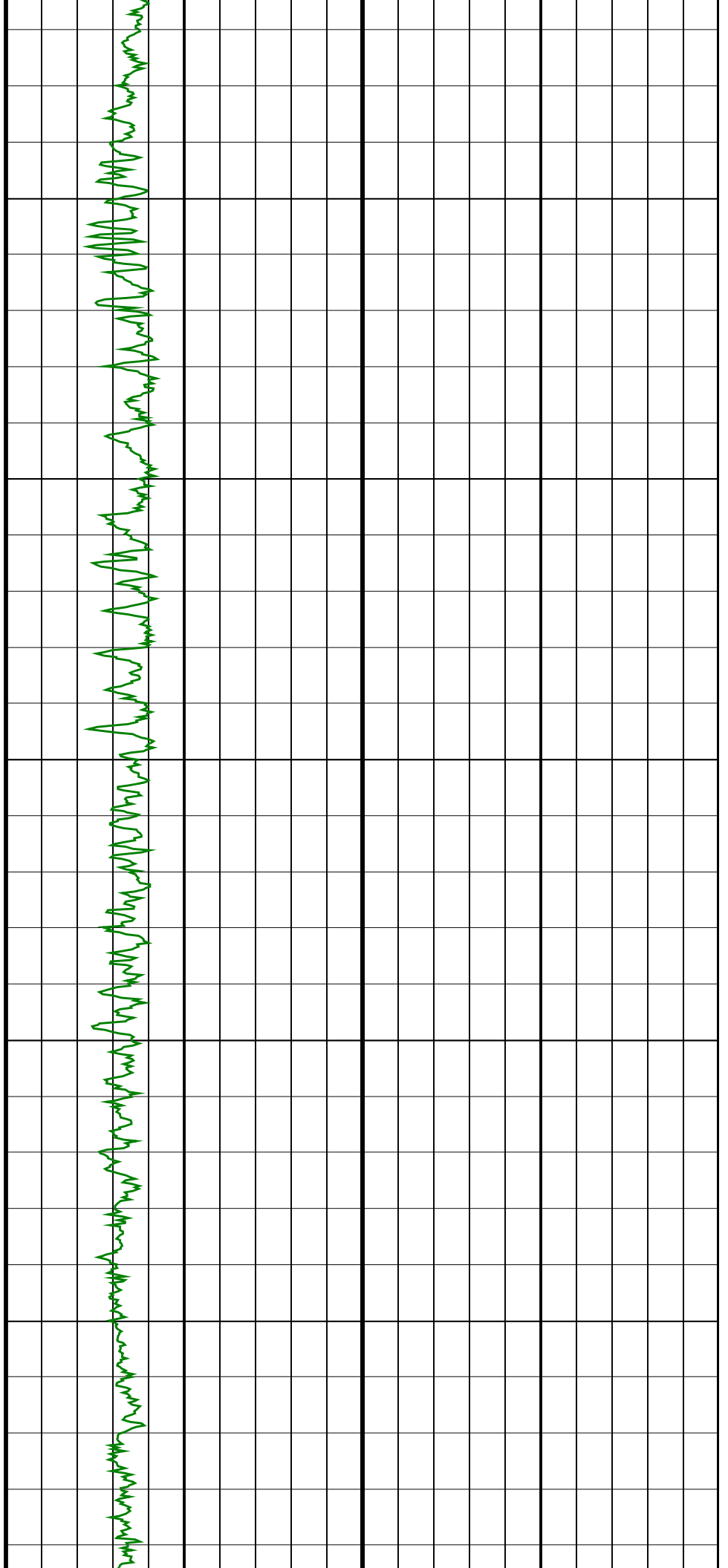
ROP*5 (ROP5) (M/HR) 0 0 GR(TM) (GRM1) (GAPI) 400

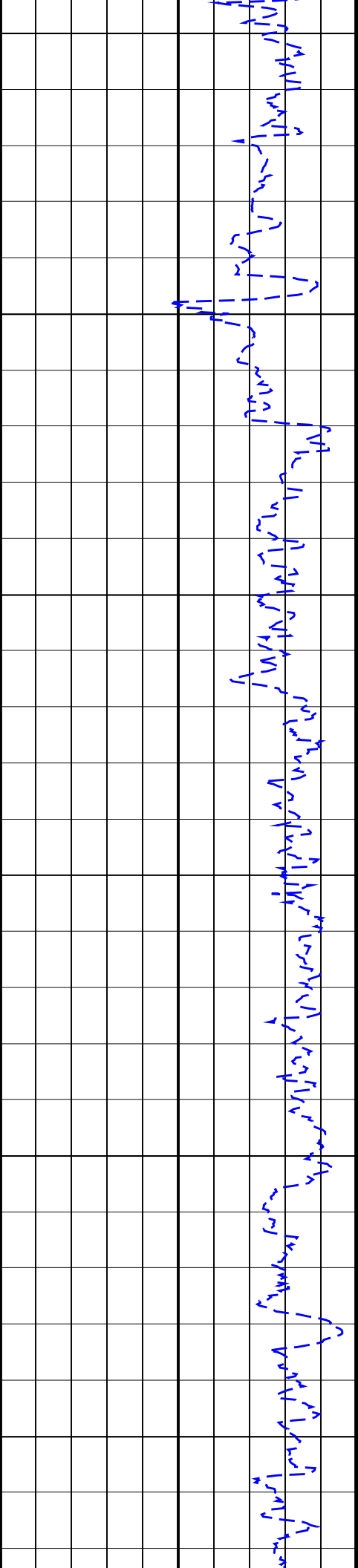




1650
TVD

1700
TVD

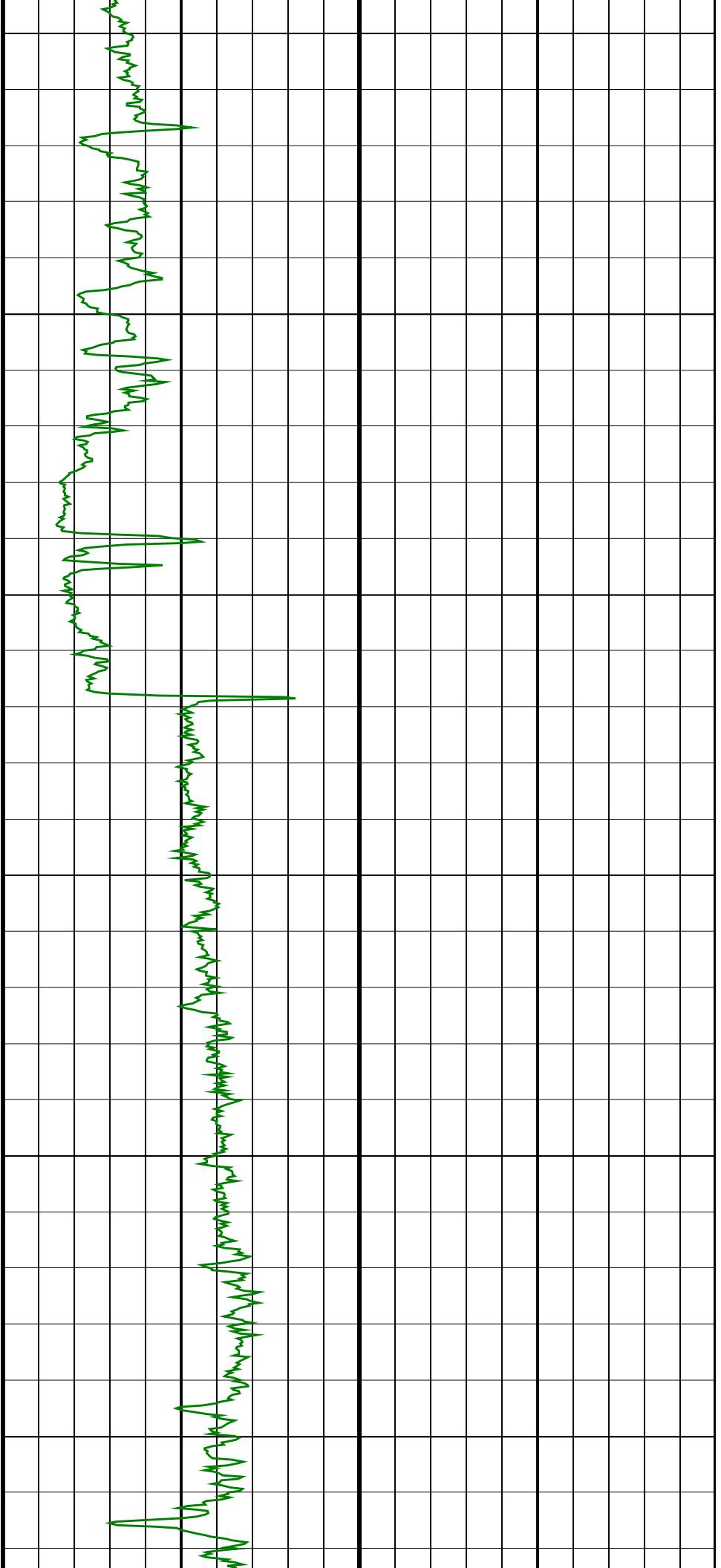


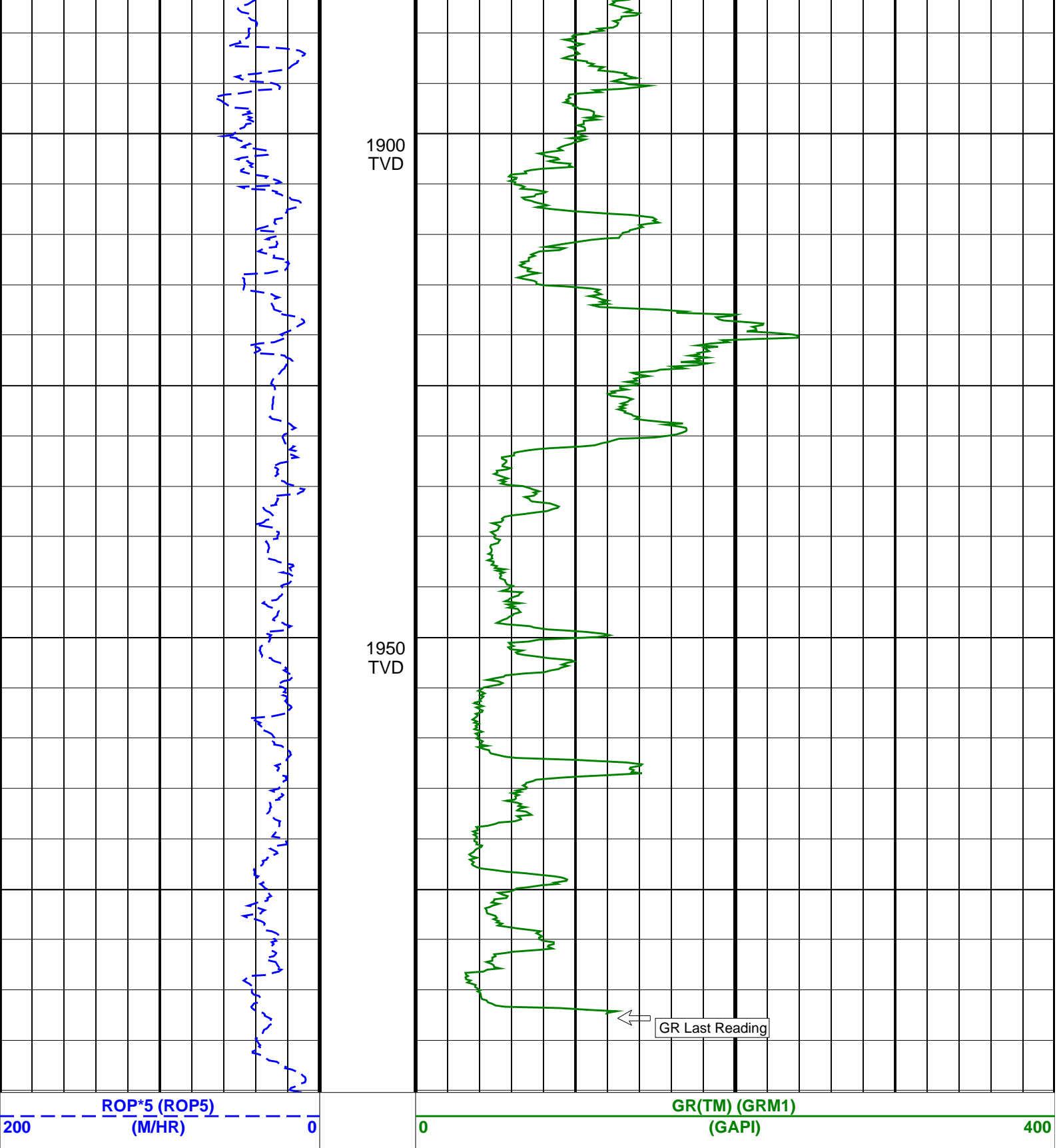


1750
TVD

1800
TVD

1850
TVD





SCHLUMBERGER

Survey report

14-Jul-2005 13:31:42

Page 1 of 3

Client..... ESSO Australia Pty. Ltd.
Field..... Bream A

Well..... BMA-A23A
API number.....
Engineer..... R. Borjas, L. Johnston

COUNTY..... Gippsland
STATE..... Victoria

Spud date..... 7-Jul-2005
Last survey date..... 11-Jul-05
Total accepted surveys... 37
MD of first survey..... 2234.00 m
MD of last survey..... 3302.00 m

Survey calculation methods

Geomagnetic data

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.....: -59.40 m
KB above permanent.....: 32.82 m
DF above permanent.....: 32.82 m

----- Vertical section origin-----
Latitude (+N/S-).....: -5.01 m
Departure (+E/W-).....: 8.11 m

Azimuth from Vsect Origin to target: 160.27 degrees

Geomagnetic data
Magnetic model.....: BGGM version 2004
Magnetic date.....: 03-Jul-2005
Magnetic field strength...: 1202.95 HCNT
Magnetic dec (+E/W-).....: 13.10 degrees
Magnetic dip.....: -69.03 degrees

----- MWD survey Reference Criteria -----
Reference G.....: 1000.05 mGal
Reference H.....: 1202.95 HCNT
Reference Dip.....: -69.03 degrees
Tolerance of G.....: (+/-) 2.50 mGal
Tolerance of H.....: (+/-) 6.00 HCNT
Tolerance of Dip.....: (+/-) 0.45 degrees

----- Corrections -----
Magnetic dec (+E/W-).....: 13.10 degrees
Grid convergence (+E/W-)..: -0.48 degrees
Total az corr (+E/W-).....: 13.58 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

14-Jul-2005 13:31:42

Page 2 of 3

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	2234.00	57.42	149.38	0.00	1491.96	1465.38	-1299.22	740.20	1495.28	150.33	0.00	TIP	None
2	2278.18	58.79	156.97	44.18	1515.33	1502.56	-1332.66	757.09	1532.70	150.40	1.49	MWD	None
3	2307.01	59.27	159.71	28.83	1530.16	1527.26	-1355.63	766.21	1557.18	150.52	0.83	MWD	None
4	2335.95	58.56	161.36	28.94	1545.11	1552.04	-1379.00	774.47	1581.60	150.68	0.55	MWD	None
5	2364.59	59.08	165.02	28.64	1559.94	1576.51	-1402.45	781.55	1605.52	150.87	1.11	MWD	None
6	2393.32	60.26	169.21	28.73	1574.45	1601.12	-1426.62	787.08	1629.33	151.11	1.32	MWD	None
7	2421.74	60.13	171.43	28.42	1588.58	1625.40	-1450.92	791.22	1652.64	151.40	0.68	MWD	None
8	2450.45	60.43	175.62	28.71	1602.82	1649.66	-1475.69	794.03	1675.75	151.72	1.27	MWD	None
9	2478.80	61.18	178.14	28.35	1616.65	1673.37	-1500.40	795.38	1698.18	152.07	0.82	MWD	None
10	2507.50	62.88	180.13	28.70	1630.11	1697.35	-1525.74	795.76	1720.79	152.46	0.85	MWD	None
11	2536.48	62.92	180.20	28.98	1643.31	1721.61	-1551.54	795.68	1743.67	152.85	0.03	MWD	None
12	2564.63	62.42	179.65	28.15	1656.23	1745.16	-1576.55	795.71	1765.97	153.22	0.25	MWD	None
13	2593.68	61.92	179.62	29.05	1669.80	1769.40	-1602.24	795.88	1789.02	153.59	0.17	MWD	None
14	2622.49	62.59	179.58	28.81	1683.21	1793.46	-1627.73	796.06	1811.97	153.94	0.23	MWD	None
15	2650.52	61.90	179.63	28.03	1696.26	1816.87	-1652.54	796.23	1834.35	154.27	0.25	MWD	None
16	2679.52	62.73	179.70	29.00	1709.74	1841.09	-1678.22	796.38	1857.59	154.61	0.29	MWD	None
17	2707.88	63.13	179.20	28.36	1722.64	1864.94	-1703.47	796.62	1880.53	154.94	0.21	MWD	None
18	2736.87	62.57	179.46	28.99	1735.87	1889.32	-1729.26	796.92	1904.06	155.26	0.21	MWD	None
19	2765.84	62.90	179.13	28.97	1749.14	1913.67	-1755.01	797.24	1927.60	155.57	0.15	MWD	None
20	2794.57	62.25	178.92	28.73	1762.37	1937.81	-1780.51	797.67	1951.02	155.87	0.24	MWD	None
21	2822.91	63.03	178.85	28.34	1775.40	1961.67	-1805.67	798.16	1974.21	156.15	0.28	MWD	None
22	2879.17	63.16	178.95	56.26	1800.86	2009.21	-1855.83	799.13	2020.57	156.70	0.03	MWD	None
23	2908.78	63.03	178.87	29.61	1814.26	2034.23	-1882.23	799.63	2045.05	156.98	0.05	MWD	None
24	2937.39	62.16	178.76	28.61	1827.42	2058.31	-1907.63	800.15	2068.64	157.24	0.31	MWD	None
25	2966.18	61.51	179.07	28.79	1841.01	2082.36	-1933.00	800.64	2092.25	157.50	0.24	MWD	None
26	2994.73	61.44	179.71	28.55	1854.65	2106.06	-1958.09	800.91	2115.55	157.75	0.20	MWD	None
27	3023.58	62.22	179.38	28.85	1868.27	2130.06	-1983.52	801.11	2139.19	158.01	0.29	MWD	None
28	3052.17	61.44	178.90	28.59	1881.76	2153.91	-2008.72	801.49	2162.71	158.25	0.31	MWD	None
29	3080.57	62.48	179.07	28.40	1895.11	2177.65	-2033.78	801.93	2186.17	158.48	0.37	MWD	None
30	3109.62	63.19	179.18	29.05	1908.38	2202.11	-2059.62	802.32	2210.38	158.72	0.25	MWD	None

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SCHLUMBERGER Survey Report

14-Jul-2005 13:31:42

Page 3 of 3

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31	3138.42	62.26	179.01	28.80	1921.57	2226.34	-2085.22	802.73	2234.39	158.95	0.33	MWD	None
32	3166.88	62.13	178.59	28.46	1934.85	2250.21	-2110.39	803.26	2258.09	159.16	0.14	MWD	None
33	3195.55	62.68	178.34	28.67	1948.13	2274.35	-2135.79	803.94	2282.08	159.37	0.21	MWD	None
34	3224.28	63.08	178.43	28.73	1961.23	2298.65	-2161.35	804.66	2306.27	159.58	0.14	MWD	None
35	3252.72	63.80	178.34	28.44	1973.94	2322.83	-2186.78	805.37	2330.37	159.78	0.25	MWD	None
36	3282.05	64.46	178.43	29.33	1986.74	2347.91	-2213.16	806.12	2355.39	159.99	0.23	MWD	None
37	3302.00	64.91	178.49	19.95	1995.27	2365.04	-2231.18	806.60	2372.51	160.12	0.23	MWD_M	None

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Company: **ESSO Australia Pty. Ltd.**

Well: **BMA A23A**

Schlumberger

Field:	Bream A
Rig:	ISDL 453
State:	Victoria
	Gamma Ray Service
	1:500 True Vertical Depth
	Real Time Log