

Thank You for Choosing Schlumberger D&M

9.41

Environmental data											
GR											
Mud weight	ppg	10.23	10.20								
Bit size	in.	6.0	6.0								
Resistivity											
Neutron porosity											
Hole Size		N/A	N/A								
Mud weight		N/A	N/A								
Temperature		N/A	N/A								
Mud salinity		N/A	N/A								
Formation salinity		N/A	N/A								
Recording rate 1	SEC	10.0	10.0								
Recording rate 2	SEC	N/A	N/A								
Filtering GR		3pt.	3pt.								
Filtering density		N/A	N/A								
Filtering Neutron		N/A	N/A								
Company representative		W. Westman	J. Mackinnon	B. Davis							
Schlumberger D&M Personnel		D. Hastie	L. Johnston	C. Cocks	L. Muskett						

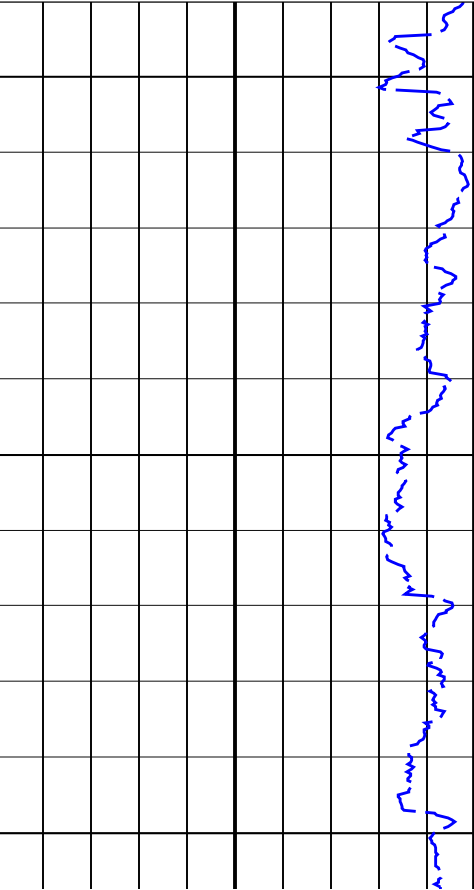
BMA_A22AST_RM_500TVD

IDEAL Version: ID10_2C_01 <TVD> Vertical Scale: 1:500 Graphics File Created: 23-Sep-2005 08:57

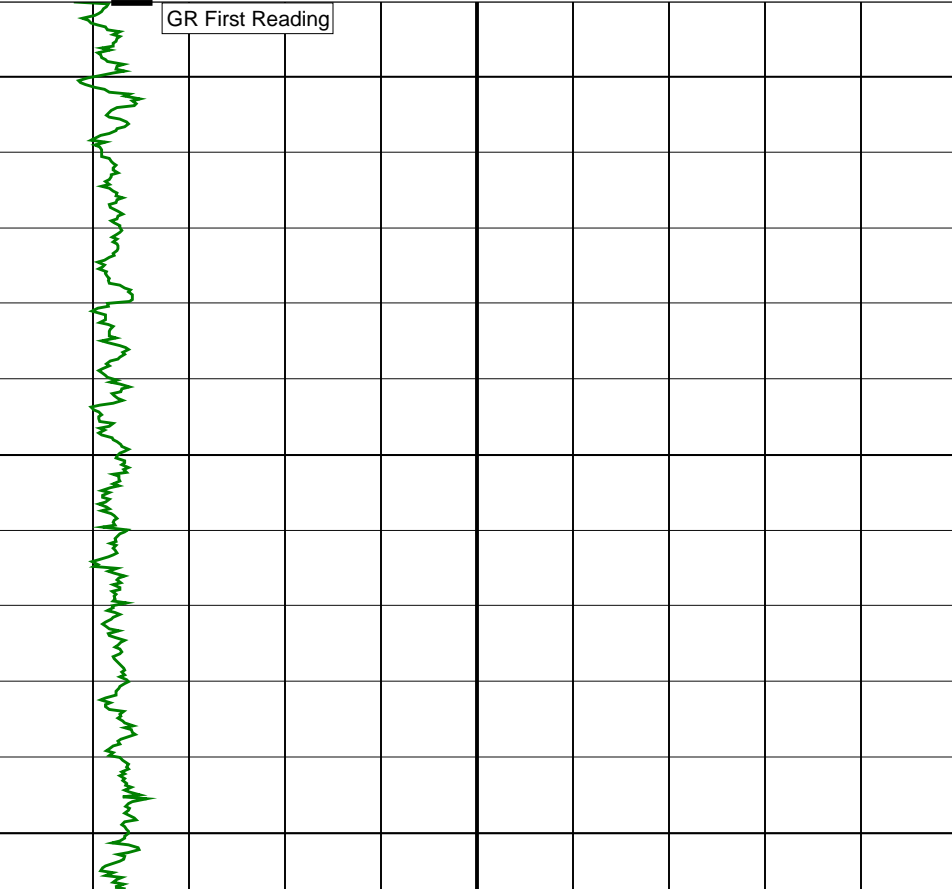
Rate of Penetration, Averaged over Last
5ft (ROP5_RM)
200 (M/HR) 0

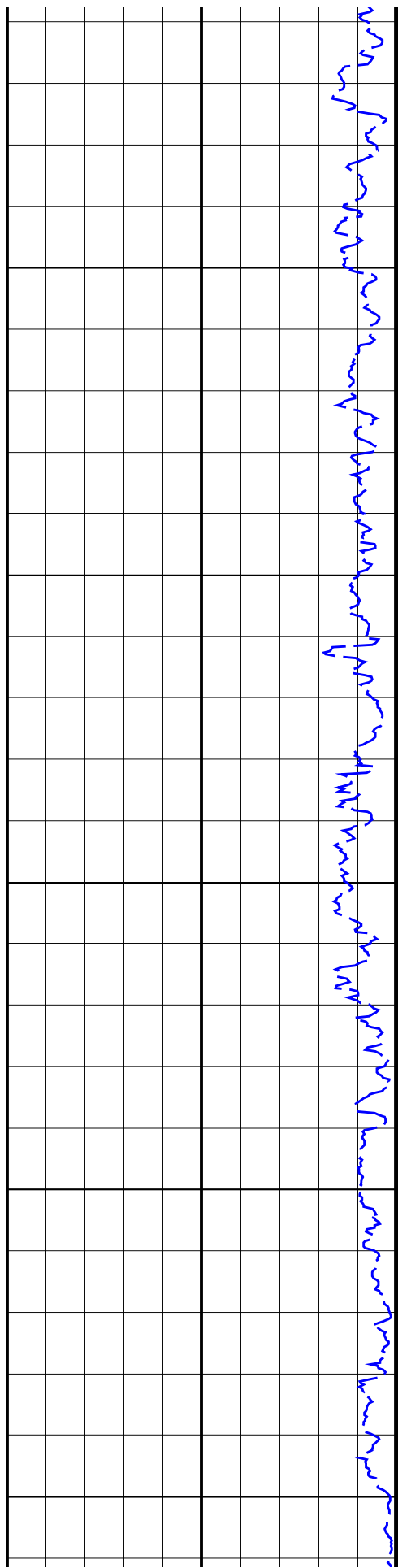
SLIMPULSE BHC Gr (GR_SPULSE_BHC)
(GAPI)

0 400



1750
TVD

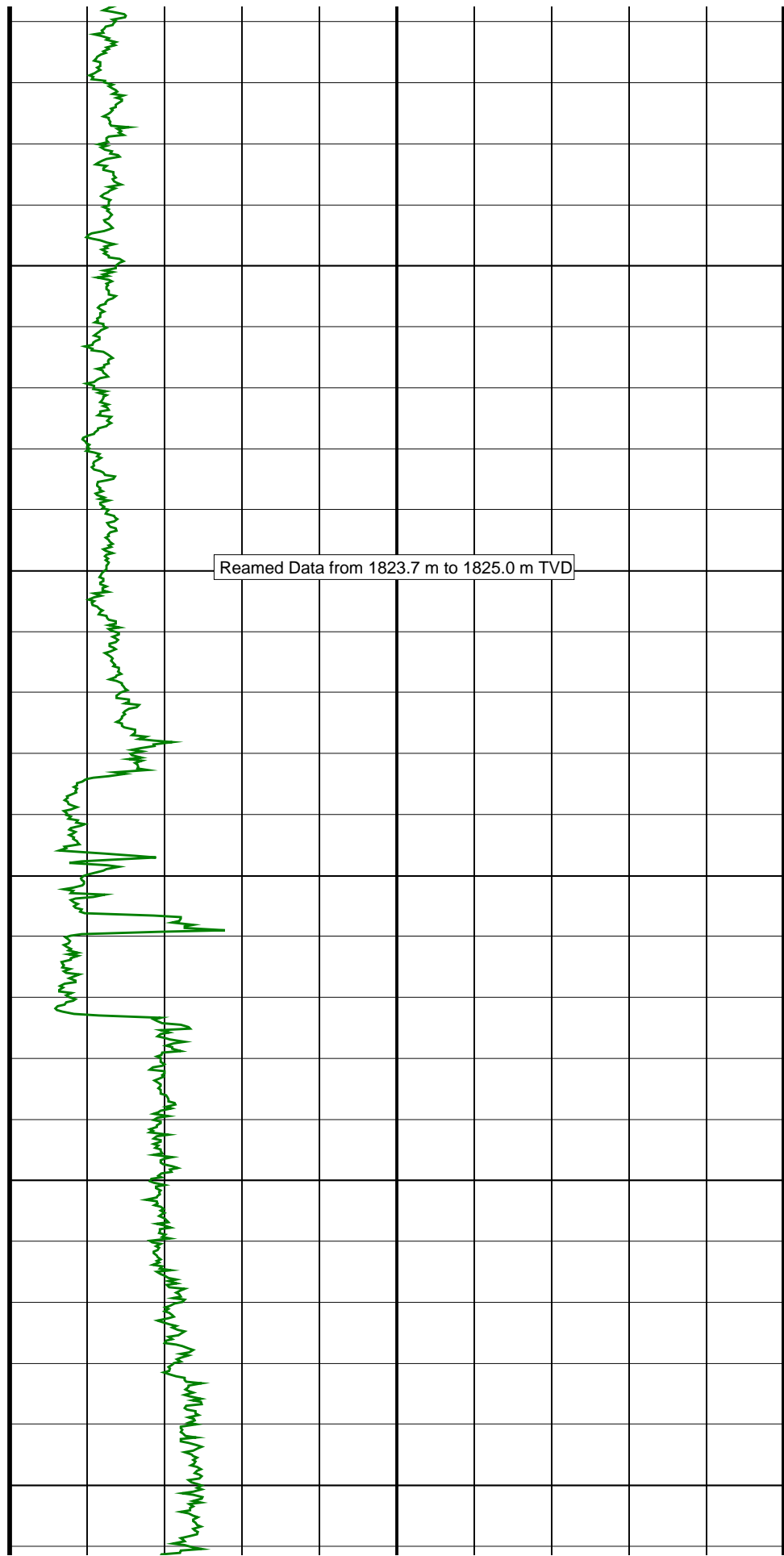


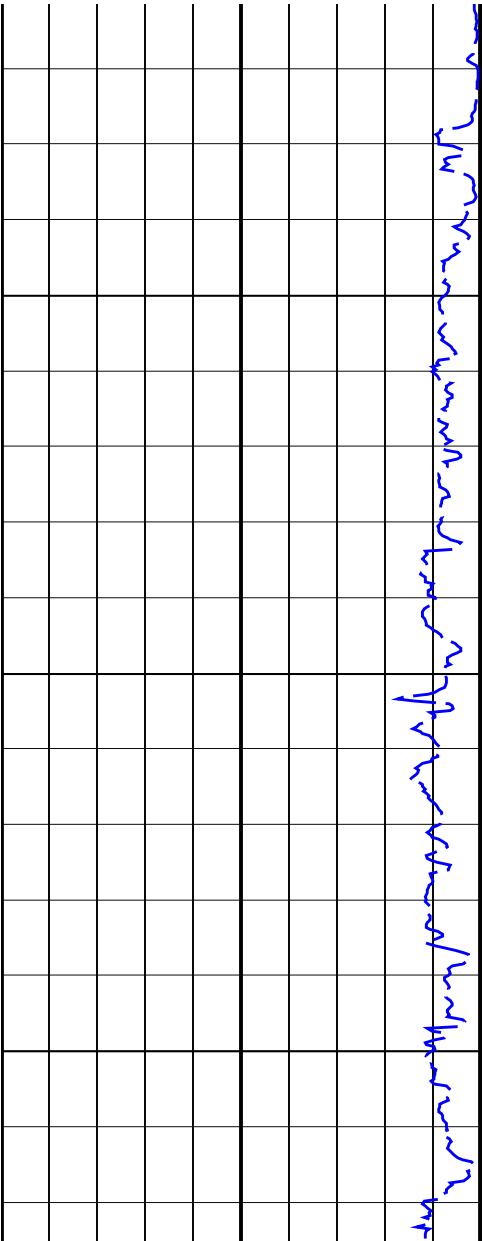


1800
TVD

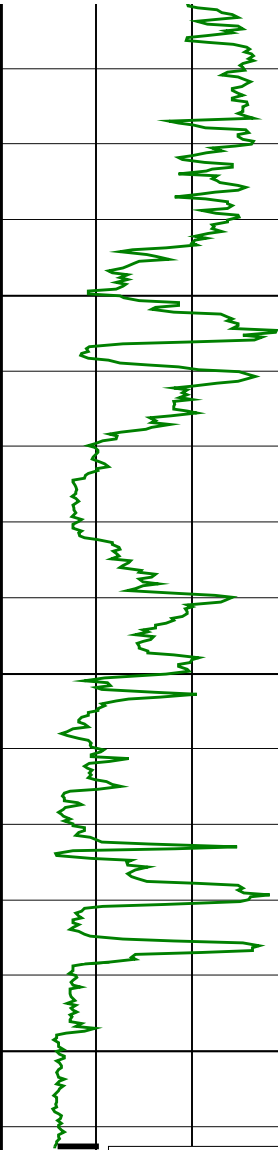
1850
TVD

1900
TVD





1950
TVD



GR Last Reading

Rate of Penetration, Averaged over Last
5ft (ROP5_RM)
200 (M/HR) 0

SLIMPULSE BHC Gr (GR_SPULSE_BHC)
0 (GAPI) 400

Input DLIS Files

CDF-09/22/2005,17:51:22 File ID:CDF_BMA_A22AST FN:11 23-Sep-2005 04:29 5643.2 FT 6519.8 FT

SCHLUMBERGER

Survey report 22-Sep-2005 08:45:48 Page 1 of 2

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

Well..... BMA A22AST
API number..... N/A
Engineer..... D.Hastie, L.Johnston

Rig..... ISDL 453
STATE..... Victoria

Spud date..... 17-Sept-2005
Last survey date..... 22-Sep-05
Total accepted surveys... 22
MD of first survey..... 2702.00 m
MD of last survey..... 3364.00 m

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

----- Geomagnetic data -----
Magnetic model..... BGGM version 2005
Magnetic date..... 16-Sep-2005
Magnetic field strength..... 3000.00 nT

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----- Depth reference -----
Permanent datum.....: Mean Sea Level
Depth reference.....: Drillers 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-).....: -4.82 m
Departure (+E/W-).....: 5.99 m

----- Platform reference point-----
Latitude (+N/S-).....: 5738457.64
Departure (+E/W-).....: 567342.49

Azimuth from Vsect Origin to target: 205.02 degrees

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magnetic field strength...: 1202.93 HCNT
Magnetic dec (+E/W-).....: 13.07 degrees
Magnetic dip.....: -69.04 degrees

----- MWD survey Reference Criteria -----
Reference G.....: 1000.05 mGal
Reference H.....: 1202.93 HCNT
Reference Dip.....: -69.02 degrees
Tolerance of G.....: (+/-) 2.50 mGal
Tolerance of H.....: (+/-) 6.00 HCNT
Tolerance of Dip.....: (+/-) 0.45 degrees

----- Corrections -----
Magnetic dec (+E/W-).....: 13.07 degrees
Grid convergence (+E/W-)..: -0.48 degrees
Total az corr (+E/W-).....: 13.55 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

22-Sep-2005 08:45:48

Page 2 of 2

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	2702.00	57.44	216.13	0.00	1720.05	1918.34	-1722.95	-848.61	1920.60	206.22	0.00	TIP	None
2	2818.30	61.07	204.37	116.30	1779.65	2017.61	-1809.15	-898.65	2020.05	206.41	0.92	SP	None
3	2846.66	63.02	200.48	28.36	1792.95	2042.63	-1832.30	-908.20	2045.03	206.37	1.39	SP	None
4	2875.53	66.54	196.48	28.87	1805.25	2068.56	-1857.06	-916.46	2070.89	206.27	1.75	SP	None
5	2904.24	68.82	195.84	28.71	1816.15	2094.80	-1882.57	-923.85	2097.04	206.14	0.82	SP	None
6	2932.64	67.67	194.34	28.40	1826.68	2120.79	-1908.04	-930.72	2122.93	206.00	0.64	SP	None
7	2961.11	67.71	194.19	28.47	1837.49	2146.66	-1933.56	-937.21	2148.73	205.86	0.05	SP	None
8	2989.53	67.94	195.04	28.42	1848.21	2172.55	-1959.03	-943.85	2174.55	205.72	0.29	SP	None
9	3018.06	67.18	194.80	28.53	1859.10	2198.51	-1984.51	-950.64	2200.45	205.60	0.28	SP	None
10	3047.04	67.46	194.08	28.98	1870.28	2224.79	-2010.40	-957.31	2226.69	205.46	0.25	SP	None
11	3075.33	67.49	197.11	28.29	1881.12	2250.57	-2035.57	-964.33	2252.44	205.35	0.99	SP	None
12	3104.27	68.12	196.99	28.94	1892.05	2277.10	-2061.19	-972.19	2278.96	205.25	0.22	SP	None
13	3132.95	68.06	196.72	28.68	1902.75	2303.44	-2086.65	-979.90	2305.28	205.16	0.09	SP	None
14	3161.24	67.83	196.45	28.29	1913.38	2329.38	-2111.78	-987.39	2331.21	205.06	0.12	SP	None
15	3190.70	68.11	196.04	29.46	1924.43	2356.37	-2138.00	-995.03	2358.20	204.96	0.16	SP	None
16	3219.49	68.65	196.29	28.79	1935.03	2382.81	-2163.71	-1002.48	2384.66	204.86	0.20	SP	None
17	3248.61	68.12	196.83	29.12	1945.76	2409.59	-2189.66	-1010.20	2411.45	204.77	0.25	SP	None
18	3277.49	68.49	196.60	28.88	1956.44	2436.14	-2215.36	-1017.91	2438.02	204.68	0.15	SP	None
19	3306.00	68.79	196.69	28.51	1966.82	2462.41	-2240.80	-1025.52	2464.32	204.59	0.11	SP	None
20	3335.00	69.50	196.14	29.00	1977.15	2489.21	-2266.79	-1033.18	2491.14	204.50	0.30	SP	None
21	3347.19	69.40	196.66	12.19	1981.42	2500.49	-2277.74	-1036.40	2502.44	204.47	0.41	SP	None
22	3364.00	69.50	196.70	16.81	1987.32	2516.07	-2292.82	-1040.92	2516.14	204.42	0.06	Projection to TD	

[(c)2005 IDEAL ID10_2C_01]

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

Schlumberger

Well: **BMA A22AST**

Field: **Bream A**

Rig: **ISDL 453**

State: **Victoria**

**Gamma Ray Service
1:500 True Vertical Depth
Recorded Mode**

