



Company: **ESSO Australia Pty Ltd**

12.25 In. Section

Well: **SNA A19A**

Field: **SNAPPER**

Rig: ISDL 175

State:

Victoria

Gamma Ray Service

1:500 True Vertical Depth

Real Time Log

Location	
Total depth:	4031.0 m
Spud date:	27-Mar-08
Runs:	1 To 2
Permanent datum:	Mean Sea Level
Log measured from:	Drill Floor
Depth reference:	Driller's Depth
	Elev.: 0.0 m
	41.7 m above Perm. datum

ISDL 175

SNAPPER

Bass Strait

SNA A19A

Company: ESSO Australia Pty Ltd

Rig:

Field:

Location:

Well:

Company:

Service Order
07ASQ0023

X = E 589,787.584 m
Y = N 5,772,180.379 m

Longitude	Latitude
E 148° 1' 31.298"	S 38° 11' 37.84"

Depth logged:

817.2 m To 4018.6 m

Mag decl: 13.01 deg.

Other services:

Date logged:

01-Apr-08 To 07-Apr-08

Mag dip: -68.71 deg

See Remarks

Bore hole record				Casing record			
Hole size	from	to	Size	Density	from	to	
12.25 in.	817.2 m	4031.0 m	13.38 in.	54.5 lb/ft	27.1 m	817.2 m	

Surface equipment	Software record
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Unit	ESSO Office Unit	IDEAL Wis	ID13_0c_06	
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Depth system	PDACLT	HSPM	13_0c_03		
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	LWD	N/A	

	MWD	8.0C04	

Bit Run Summary

Run number		1	2							
Bit size	in	12.25	12.25							
Bit start depth	m	756.0	888.0							
Bit end depth	m	888.0	4031.0							
Top interval logged	m	817.2	875.6							
Bottom interval logged	m	875.6	4018.6							
Begin log: time		00:15	03:23							
Begin log: date		01-Apr-08	02-Apr-08							
End log: time		10:57	07:38							
End log: date		01-Apr-08	07-Apr-08							
Mud data										
Depth	m	888.0	4031.0							
Type		Accolade SBM	Accolade SBM							
Mud weight	ppg	11.0	11.3							
Solids	%	13.9	17.1							
Chlorides	mg/l	47,200	42,100							
Rm	ohm.m@°C	N/A	N/A							
Rmf	ohm.m@°C	N/A	N/A							
Rmc	ohm.m@°C	N/A	N/A							

Potassium	%	0	0								
Environmental data											
GR											
Mud weight	ppg	11.0	11.3								
Bit size	in	12.25	12.25								
Resistivity											
Neutron porosity											
Hole Size	in	12.25	12.25								
Mud weight	ppg	11.0	11.3								
Temperature	°C	N/A	N/A								
Mud salinity	ppb	N/A	N/A								
Formation salinity	ppb	N/A	N/A								
Recording rate 1	SEC	N/A	N/A								
Recording rate 2	SEC	N/A	N/A								
Filtering GR		3 pts.	3 pts.								
Filtering density		N/A	N/A								
Filtering Neutron		N/A	N/A								
Company representative		R. C. Moore	G. Doty								
Anadrill personnel		J. Ikeda	M. Sihite								

EQUIPMENT DESCRIPTION

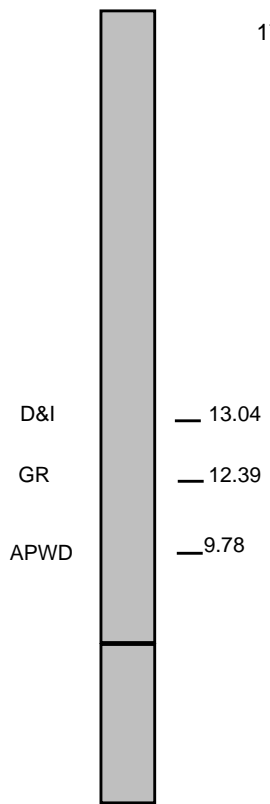
RUN2

DOWNHOLE EQUIPMENT

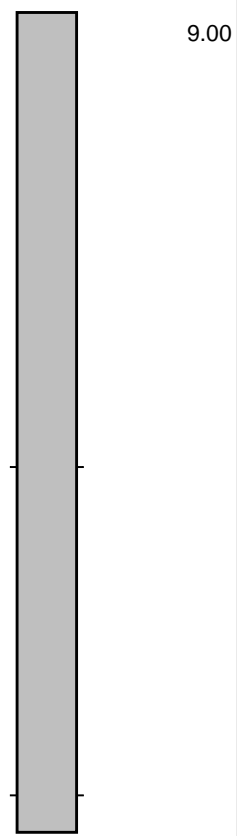
DOWNHOLE EQUIPMENT

DOWNHOLE EQUIPMENT

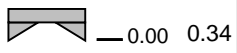
PowerPulse*
MDC: VE14
MEC: 1620
MDI: 1297
MGR: 091
DHS: 8.0C04



900-PowerDrive Xceed*
S/N: CRS-069
BladeOD 12.13

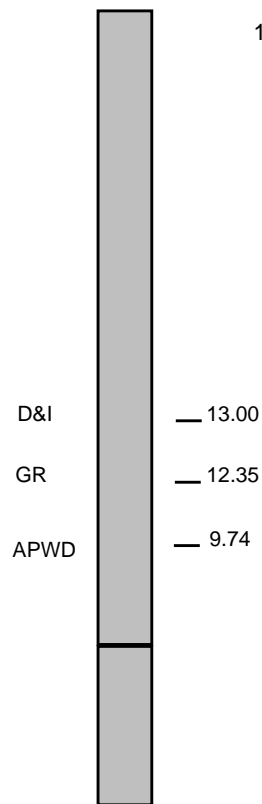


12-1/4" Reed-Hyc Milled Bit
S/N: CP2616

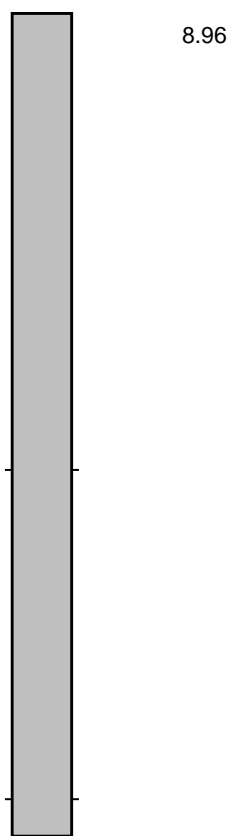


Maximum string diameter 12.25 in.
All lengths in Meters

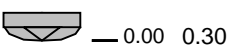
PowerPulse*
MDC: VE14
MEC: 1620
MDI: 1297
MGR: 091
DHS: 8.0C04



900-PowerDrive Xceed*
S/N : CRS-069
BladeOD 12.25



12-1/4" Reed-Hyc PDC Bit
S/N: 216501



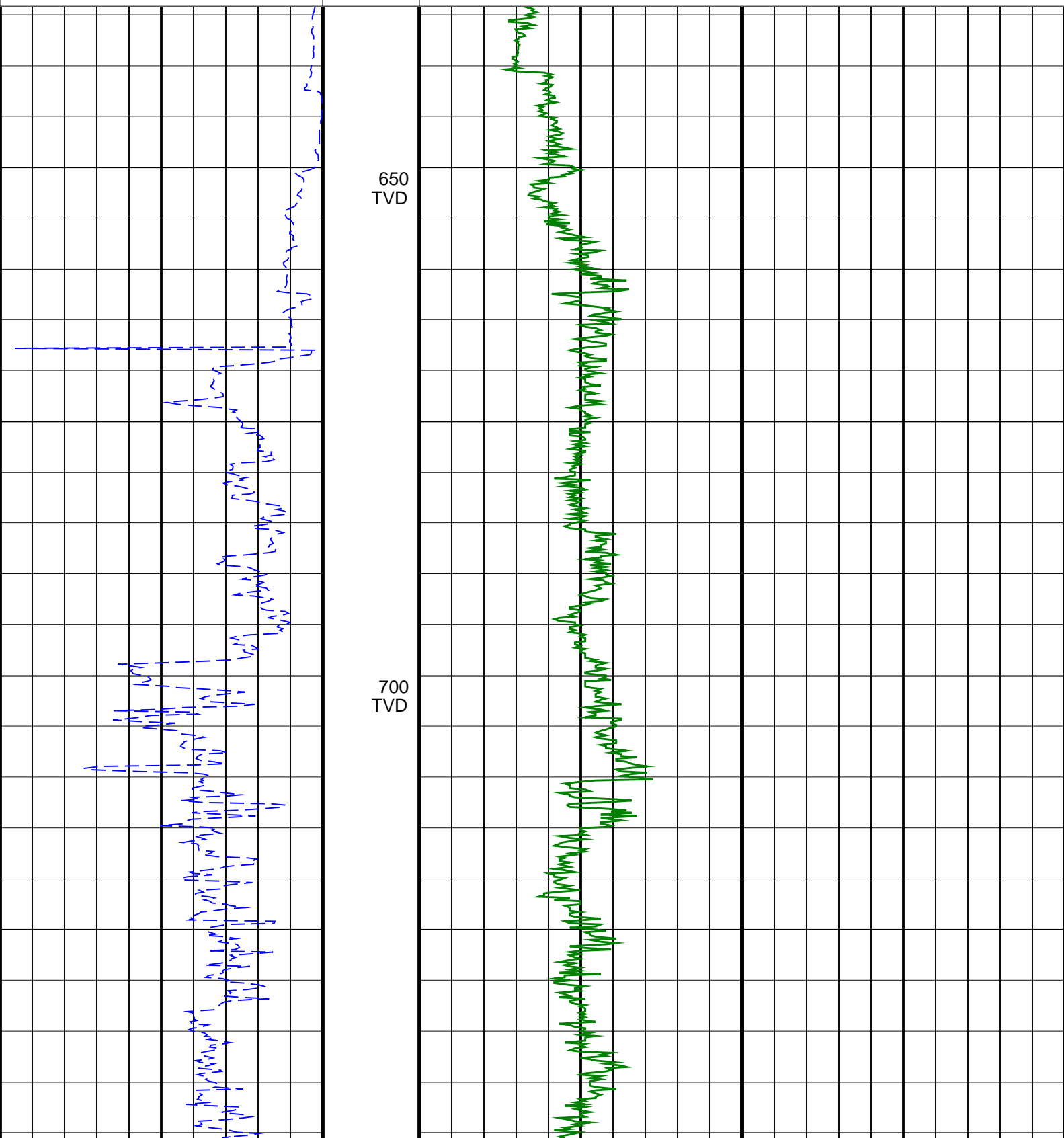
Maximum string diameter 12.25 in.
All lengths in Meters

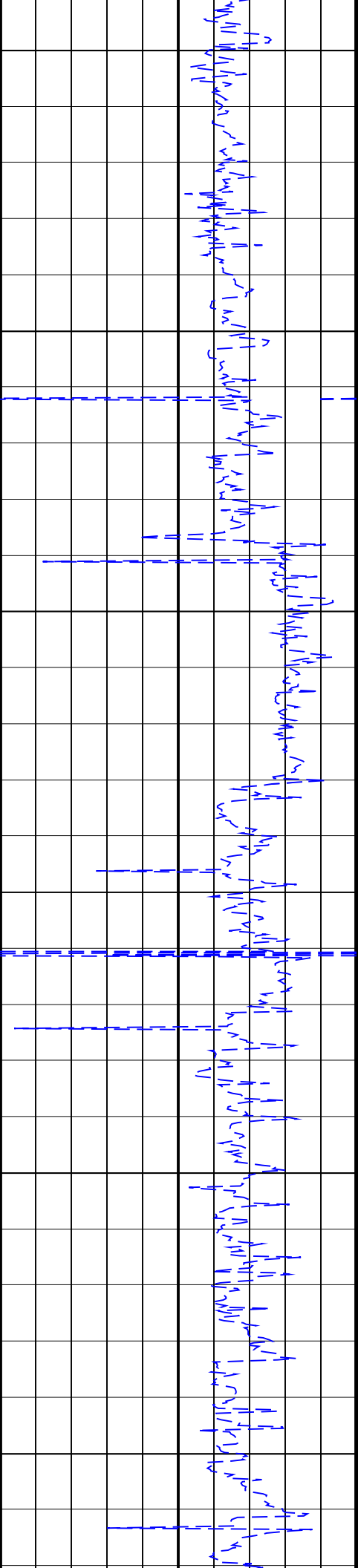
SNA A19A GR 500TVD

IDEAL Version: ID13_OC_08 <TVD> Vertical Scale: 1:500

Graphics File Created: 28-Apr-2008 19:05

200 ROP*5 (ROP5) 0 GR(TM) (GRM1) 0 200
(M/HR) (GAPI)

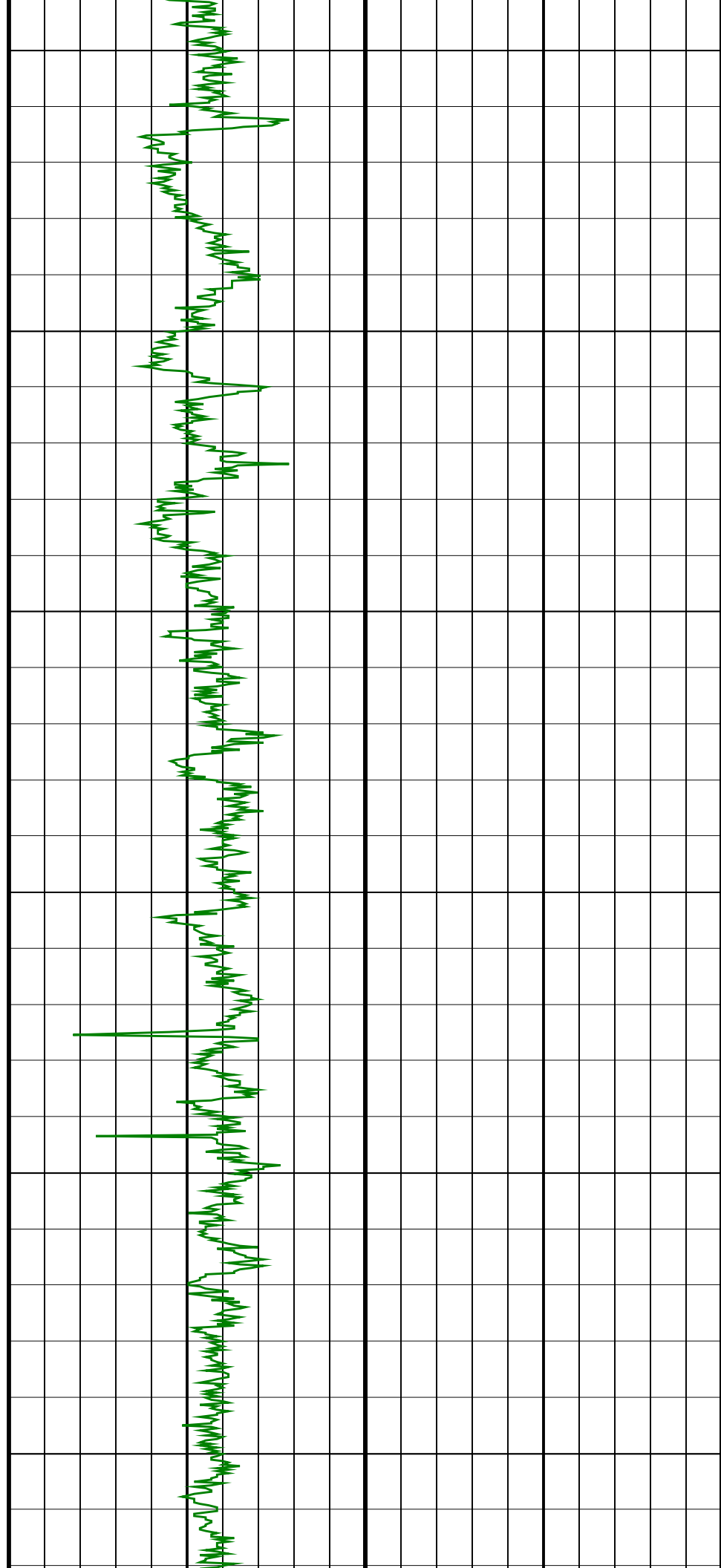


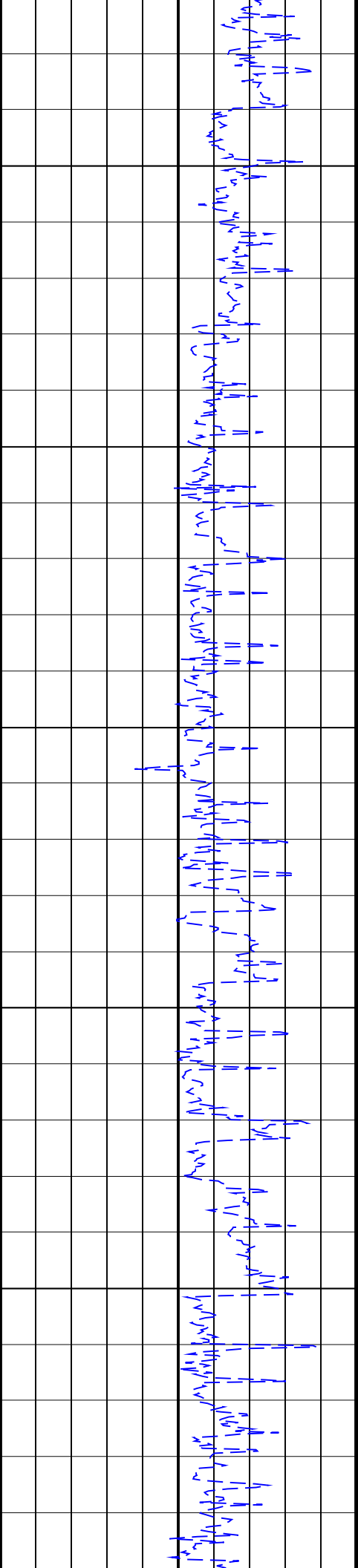


750
TVD

800
TVD

850
TVD

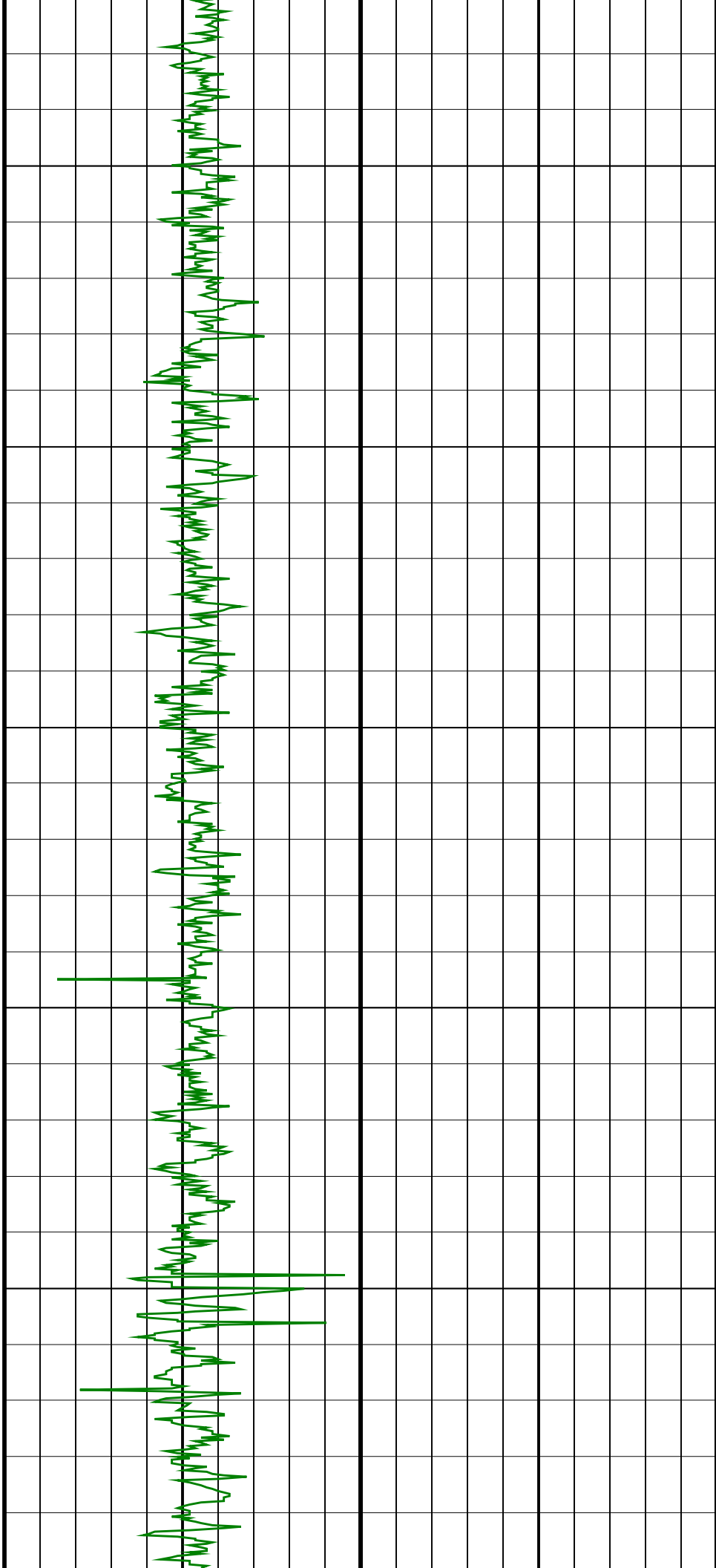


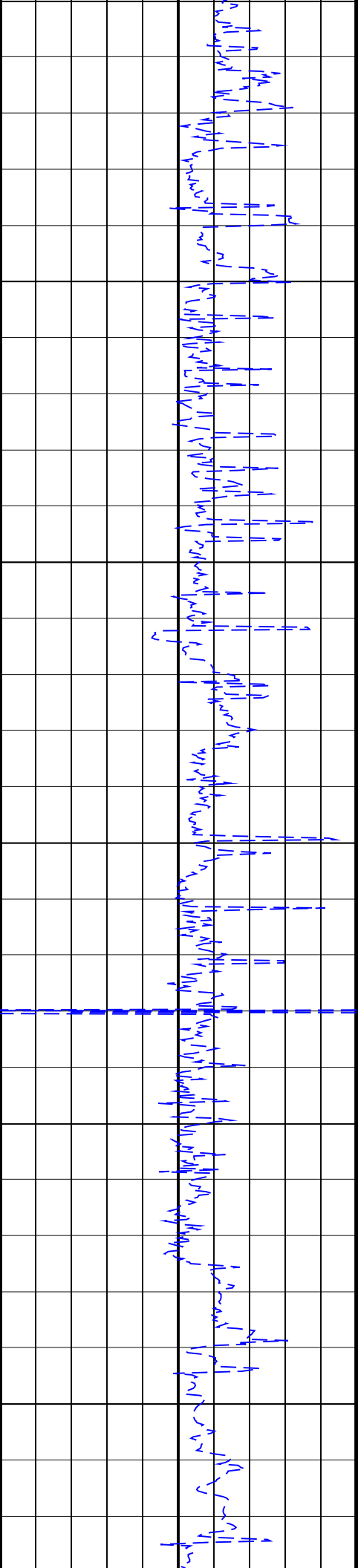


900
TVD

950
TVD

1000
TVD

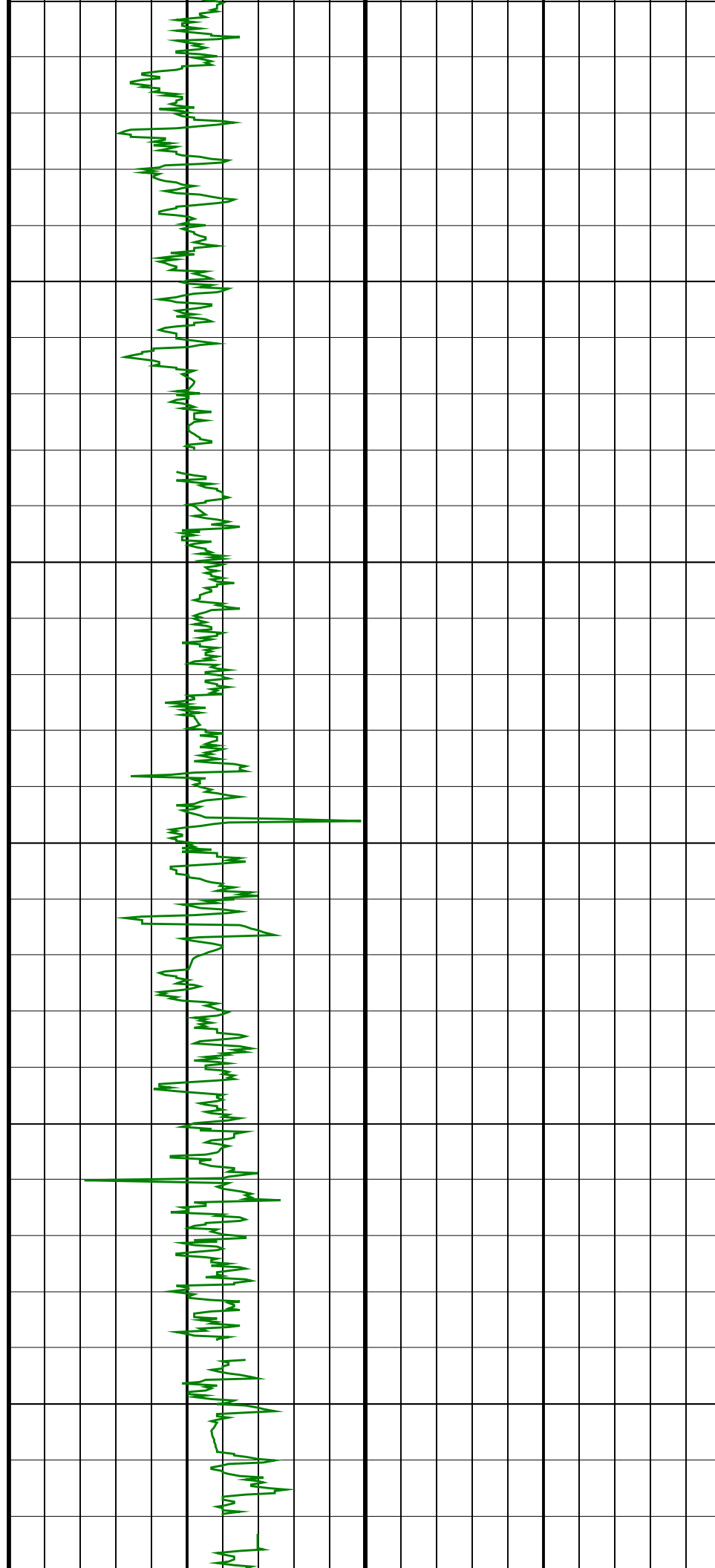


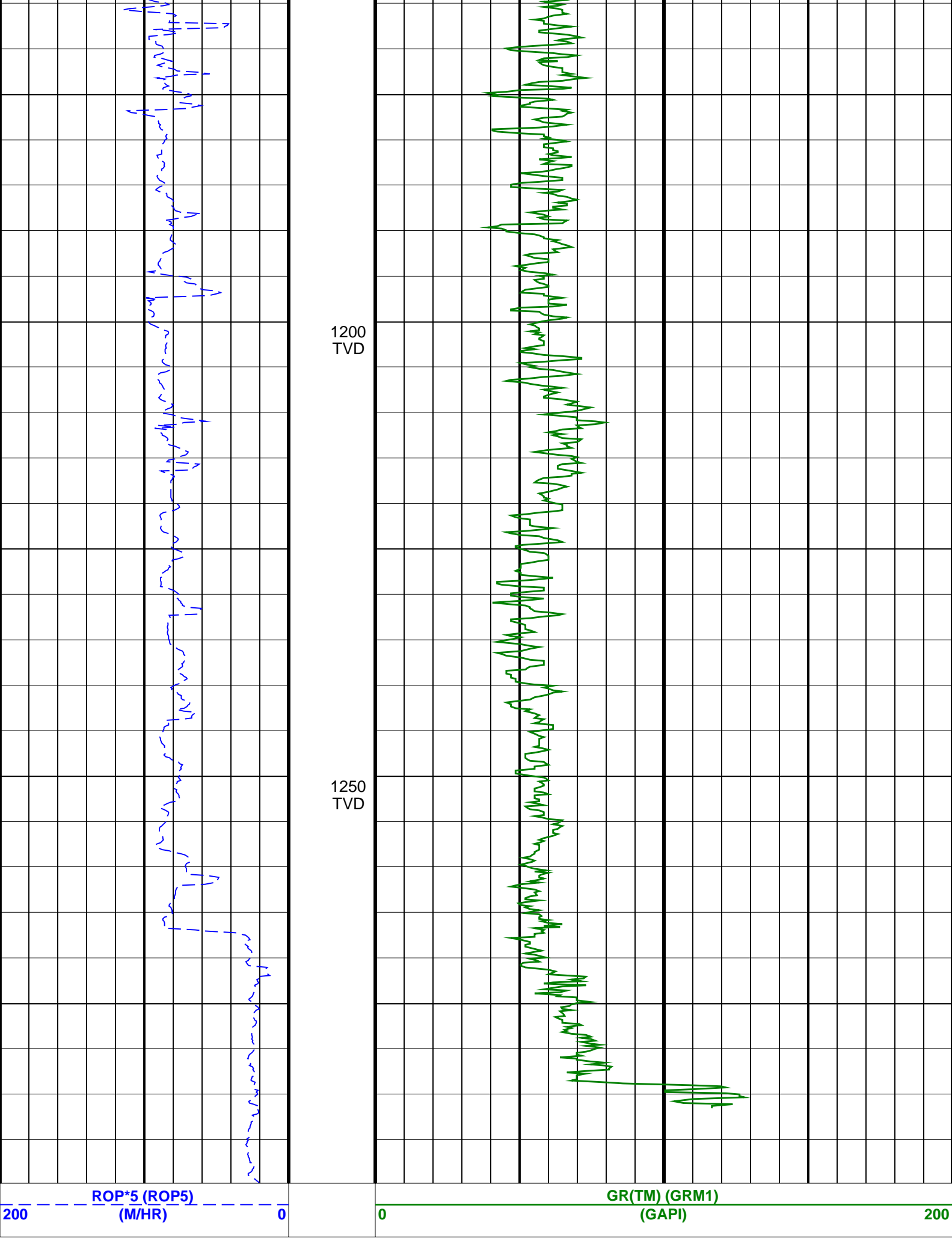


1050
TVD

1100
TVD

1150
TVD





SCHLUMBERGER

Survey report

8-Apr-2008 01:57:43

Client.....: ESSO Australia Pty Ltd.
Field.....: Snapper

Well.....: SNA-A19A
Service Order no.....: 07ASQ0023
Engineer.....: MS/JI

RIG.....: ISDL 175
STATE.....: Victoria

Spud date.....: 27-Mar-08
Last survey date.....: 07-Apr-08
Total accepted surveys....: 110
MD of first survey.....: 818.00 m
MD of last survey.....: 4016.94 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.....: -55.00 m
KB above permanent.....: Top Drive
DF above permanent.....: 41.70 m

----- Vertical section origin-----

Latitude (+N/S-).....: -4.23 m
Departure (+E/W-).....: 0.54 m

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

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

Azimuth from Vsect Origin to target: 222.93 degrees

----- Geomagnetic data -----

Magnetic model.....: BGGM version 2007
Magnetic date.....: 28-Mar-2008
Magnetic field strength...: 1197.76 HCNT
Magnetic dec (+E/W-).....: 13.01 degrees
Magnetic dip.....: -68.71 degrees

----- MWD survey Reference Criteria -----

Reference G.....: 1000.02 mGal
Reference H.....: 1197.76 HCNT
Reference Dip.....: -68.71 degrees
Tolerance of G.....: (+/-) 2.50 mGal
Tolerance of H.....: (+/-) 6.00 HCNT
Tolerance of Dip.....: (+/-) 0.45 degrees

----- Corrections -----

Magnetic dec (+E/W-).....: 13.01 degrees
Grid convergence (+E/W-)..: -0.63 degrees
Total az corr (+E/W-).....: 13.64 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

[(c)2008 IDEAL ID13_OC_06]
SCHLUMBERGER Survey Report

8-Apr-2008 01:57:43

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/ 100f)	Srvy tool type	Tool Corr (deg)
1	818.00	65.15	237.47	0.00	641.54	385.23	-247.50	-303.54	391.65	230.81	0.00	TIP	None
2	825.33	66.85	236.89	7.33	644.52	391.72	-251.13	-309.17	398.31	230.91	7.40	MWD	None
3	844.01	67.54	235.57	18.68	651.76	408.48	-260.70	-323.48	415.46	231.13	2.28	MWD	None
4	934.88	71.97	232.69	90.87	683.20	492.08	-310.66	-392.52	500.59	231.64	1.74	MWD	None
5	964.33	73.85	231.11	29.45	691.86	519.89	-328.03	-414.67	528.73	231.65	2.50	MWD	None
6	993.65	75.70	229.32	29.32	699.56	547.95	-346.14	-436.41	557.01	231.58	2.63	MWD	None
7	1022.61	78.39	227.17	28.96	706.05	576.04	-364.93	-457.46	585.19	231.42	3.59	MWD	None
8	1051.74	79.84	224.41	29.13	711.55	604.61	-384.88	-477.96	613.66	231.16	3.22	MWD	None
9	1080.99	80.78	221.07	29.25	716.48	633.44	-406.05	-497.52	642.19	230.78	3.57	MWD	None
10	1109.77	81.26	218.53	28.78	720.97	661.82	-427.89	-515.72	670.11	230.32	2.71	MWD	None
11	1139.06	81.08	218.70	29.29	725.47	690.68	-450.50	-533.78	698.48	229.84	0.26	MWD	None
12	1168.54	81.05	219.37	29.48	730.05	719.74	-473.12	-552.12	727.11	229.41	0.69	MWD	None
13	1197.52	81.09	220.70	28.98	734.54	748.33	-495.04	-570.54	755.37	229.05	1.38	MWD	None
14	1226.81	81.27	221.45	29.29	739.04	777.26	-516.86	-589.55	784.04	228.76	0.79	MWD	None
15	1256.11	81.12	220.88	29.30	743.52	806.20	-538.66	-608.61	812.75	228.49	0.61	MWD	None
16	1286.01	81.12	220.82	29.90	748.14	835.72	-561.00	-627.94	842.04	228.22	0.06	MWD	None
17	1314.74	80.88	220.55	28.73	752.63	864.07	-582.52	-646.43	870.18	227.98	0.38	MWD	None
18	1342.72	81.14	219.97	27.98	757.00	891.68	-603.61	-664.29	897.57	227.74	0.69	MWD	None
19	1368.44	81.43	219.81	25.72	760.90	917.07	-623.12	-680.60	922.76	227.52	0.39	MWD	None
20	1401.74	81.06	220.34	33.30	765.97	949.94	-648.30	-701.79	955.41	227.27	0.59	MWD	None
21	1431.03	80.77	220.65	29.29	770.59	978.83	-670.30	-720.57	984.13	227.07	0.44	MWD	None
22	1458.21	81.01	220.57	27.18	774.90	1005.65	-690.67	-738.04	1010.80	226.90	0.28	MWD	None
23	1487.53	80.62	220.01	29.32	779.58	1034.56	-712.75	-756.75	1039.56	226.72	0.70	MWD	None
24	1517.39	80.13	220.32	29.86	784.57	1063.97	-735.25	-775.74	1068.81	226.54	0.59	MWD	None
25	1545.95	80.37	220.05	28.56	789.41	1092.08	-756.75	-793.90	1096.79	226.37	0.38	MWD	None
26	1576.23	80.43	219.86	30.28	794.46	1121.90	-779.64	-813.08	1126.47	226.20	0.20	MWD	None
27	1605.64	80.05	220.46	29.41	799.44	1150.85	-801.79	-831.77	1155.29	226.05	0.73	MWD	None
28	1634.87	80.22	220.54	29.23	804.45	1179.62	-823.68	-850.47	1183.96	225.92	0.20	MWD	None
29	1663.67	80.63	221.96	28.80	809.24	1208.01	-845.03	-869.20	1212.26	225.81	1.54	MWD	None
30	1693.30	80.54	221.29	29.63	814.09	1237.23	-866.89	-888.61	1241.42	225.71	0.69	MWD	None
31	1721.76	80.62	220.31	28.46	818.75	1265.29	-888.14	-906.96	1269.39	225.60	1.04	MWD	None
32	1750.85	80.55	220.10	29.09	823.50	1293.95	-910.06	-925.48	1297.97	225.48	0.23	MWD	None
33	1778.12	80.47	219.58	27.27	828.00	1320.81	-930.71	-942.71	1324.74	225.37	0.58	MWD	None
34	1808.70	80.28	219.55	30.58	833.11	1350.91	-953.95	-961.92	1354.74	225.24	0.19	MWD	None
35	1838.39	80.73	220.24	29.69	838.01	1380.15	-976.42	-980.70	1383.89	225.13	0.84	MWD	None

36	1867.48	80.18	220.10	29.09	842.83	1408.80	-998.34	-999.20	1412.48	225.02	0.59	MWD	None
37	1896.95	80.60	221.42	29.47	847.75	1437.84	-1020.35	-1018.18	1441.45	224.94	1.41	MWD	None
38	1925.66	81.03	222.12	28.71	852.34	1466.17	-1041.48	-1037.05	1469.75	224.88	0.86	MWD	None
39	1953.25	80.60	221.87	27.59	856.74	1493.41	-1061.73	-1055.28	1496.95	224.83	0.55	MWD	None
40	1983.62	80.97	221.75	30.37	861.60	1523.38	-1084.07	-1075.26	1526.89	224.77	0.39	MWD	None
41	2012.53	80.83	221.32	28.91	866.18	1551.92	-1105.44	-1094.19	1555.39	224.71	0.47	MWD	None
42	2042.33	80.77	221.97	29.80	870.94	1581.33	-1127.42	-1113.74	1584.77	224.65	0.66	MWD	None
43	2072.85	80.83	221.91	30.52	875.82	1611.45	-1149.83	-1133.87	1614.86	224.60	0.08	MWD	None
44	2101.05	80.86	222.26	28.20	880.31	1639.29	-1170.49	-1152.53	1642.68	224.56	0.37	MWD	None
45	2130.10	80.60	222.11	29.05	884.99	1667.95	-1191.74	-1171.79	1671.32	224.52	0.31	MWD_M	None
46	2158.30	80.63	221.62	28.20	889.59	1695.77	-1212.46	-1190.36	1699.12	224.47	0.52	MWD	None
47	2187.92	80.37	221.13	29.62	894.47	1724.97	-1234.38	-1209.67	1728.29	224.42	0.56	MWD	None
48	2216.87	80.19	220.82	28.95	899.36	1753.49	-1255.92	-1228.38	1756.77	224.36	0.37	MWD	None
49	2246.30	80.48	220.42	29.43	904.30	1782.48	-1277.94	-1247.26	1785.72	224.30	0.51	MWD	None
50	2275.82	80.31	220.26	29.52	909.23	1811.56	-1300.13	-1266.11	1814.76	224.24	0.24	MWD	None
51	2304.97	80.42	219.89	29.15	914.11	1840.26	-1322.12	-1284.61	1843.43	224.18	0.40	MWD	None
52	2334.71	80.48	220.07	29.74	919.04	1869.55	-1344.59	-1303.45	1872.68	224.11	0.19	MWD	None
53	2363.60	80.22	220.65	28.89	923.88	1898.00	-1366.30	-1321.89	1901.10	224.05	0.66	MWD	None
54	2391.27	80.21	220.78	27.67	928.59	1925.25	-1386.96	-1339.68	1928.32	224.01	0.14	MWD	None
55	2422.94	80.42	221.30	31.67	933.92	1956.45	-1410.51	-1360.18	1959.50	223.96	0.53	MWD	None
56	2450.47	80.72	221.00	27.53	938.43	1983.59	-1430.96	-1378.05	1986.62	223.92	0.47	MWD	None
57	2480.06	80.83	220.99	29.59	943.17	2012.79	-1453.00	-1397.21	2015.79	223.88	0.11	MWD	None
58	2510.37	80.92	220.91	30.31	947.98	2042.69	-1475.61	-1416.82	2045.68	223.84	0.12	MWD	None
59	2537.19	80.66	221.32	26.82	952.27	2069.16	-1495.55	-1434.23	2072.12	223.80	0.55	MWD	None
60	2567.88	80.16	221.91	30.69	957.38	2099.41	-1518.18	-1454.33	2102.36	223.77	0.76	MWD	None
61	2595.87	80.50	221.41	27.99	962.08	2126.99	-1538.79	-1472.67	2129.94	223.74	0.65	MWD	None
62	2624.74	80.48	222.25	28.87	966.85	2155.46	-1560.01	-1491.66	2158.39	223.72	0.87	MWD	None
63	2654.71	80.54	222.52	29.97	971.79	2185.02	-1581.84	-1511.59	2187.95	223.70	0.28	MWD	None
64	2683.77	80.72	222.05	29.06	976.53	2213.69	-1603.05	-1530.88	2216.61	223.68	0.52	MWD	None
65	2712.74	80.57	221.95	28.97	981.23	2242.27	-1624.29	-1550.00	2245.18	223.66	0.19	MWD	None
66	2742.20	80.57	220.94	29.46	986.06	2271.32	-1646.08	-1569.24	2274.22	223.63	1.03	MWD	None
67	2772.49	80.85	220.30	30.29	990.95	2301.19	-1668.77	-1588.70	2304.07	223.59	0.70	MWD	None
68	2800.58	80.76	220.32	28.09	995.44	2328.89	-1689.91	-1606.64	2331.76	223.55	0.10	MWD	None
69	2829.67	80.71	219.94	29.09	1000.12	2357.57	-1711.87	-1625.14	2360.42	223.51	0.40	MWD	None
70	2858.19	80.80	220.73	28.52	1004.71	2385.69	-1733.32	-1643.36	2388.52	223.47	0.84	MWD	None
71	2887.36	80.76	220.63	29.17	1009.38	2414.46	-1755.16	-1662.13	2417.28	223.44	0.11	MWD	None
72	2916.76	80.74	221.21	29.40	1014.11	2443.46	-1777.08	-1681.14	2446.27	223.41	0.59	MWD	None
73	2945.85	80.51	221.74	29.09	1018.84	2472.15	-1798.59	-1700.15	2474.96	223.39	0.60	MWD	None
74	2975.36	80.06	222.19	29.51	1023.82	2501.23	-1820.22	-1719.60	2504.04	223.37	0.65	MWD	None
75	3003.97	80.15	221.72	28.61	1028.74	2529.41	-1841.18	-1738.44	2532.21	223.36	0.50	MWD	None
76	3033.50	79.67	222.24	29.53	1033.91	2558.48	-1862.79	-1757.88	2561.28	223.34	0.72	MWD	None
77	3062.62	79.67	221.55	29.12	1039.14	2587.13	-1884.11	-1777.01	2589.92	223.32	0.71	MWD	None
78	3091.61	79.44	222.28	28.99	1044.39	2615.63	-1905.33	-1796.06	2618.42	223.31	0.79	MWD	None
79	3120.91	79.61	222.33	29.30	1049.72	2644.44	-1926.64	-1815.45	2647.22	223.30	0.18	MWD	None
80	3149.93	80.48	222.12	29.02	1054.74	2673.02	-1947.80	-1834.66	2675.80	223.29	0.94	MWD	None
81	3178.97	80.63	222.47	29.04	1059.50	2701.67	-1968.99	-1853.94	2704.44	223.28	0.40	MWD	None
82	3208.02	81.50	222.14	29.05	1064.01	2730.36	-1990.22	-1873.25	2733.14	223.27	0.97	MWD	None
83	3237.27	80.92	221.67	29.25	1068.48	2759.26	-2011.73	-1892.56	2762.04	223.25	0.77	MWD	None
84	3266.58	80.65	221.14	29.31	1073.18	2788.18	-2033.43	-1911.70	2790.95	223.23	0.61	MWD	None
85	3295.91	80.28	220.73	29.33	1078.03	2817.09	-2055.28	-1930.65	2819.85	223.21	0.57	MWD	None
86	3324.75	80.71	220.45	28.84	1082.80	2845.51	-2076.88	-1949.15	2848.27	223.18	0.54	MWD	None
87	3354.19	80.66	220.25	29.44	1087.56	2874.53	-2099.02	-1967.96	2877.28	223.15	0.21	MWD	None
88	3383.34	81.06	220.52	29.15	1092.19	2903.29	-2120.94	-1986.61	2906.03	223.13	0.50	MWD	None
89	3411.85	80.80	220.17	28.51	1096.69	2931.41	-2142.40	-2004.84	2934.15	223.10	0.46	MWD	None
90	3441.10	80.62	219.86	29.25	1101.41	2960.24	-2164.51	-2023.40	2962.98	223.07	0.37	MWD	None
91	3471.00	80.22	220.93	29.90	1106.39	2989.69	-2186.96	-2042.50	2992.43	223.04	1.15	MWD	None
92	3499.53	80.98	221.49	28.53	1111.04	3017.83	-2208.14	-2061.05	3020.56	223.03	1.00	MWD	None
93	3526.72	80.62	221.36	27.19	1115.39	3044.66	-2228.26	-2078.81	3047.39	223.01	0.43	MWD	None
94	3558.23	80.57	220.79	31.51	1120.54	3075.73	-2251.70	-2099.23	3078.46	222.99	0.55	MWD	None
95	3586.63	80.54	221.34	28.40	1125.20	3103.73	-2272.82	-2117.63	3106.46	222.98	0.58	MWD	None
96	3615.78	80.47	221.37	29.15	1130.01	3132.47	-2294.40	-2136.63	3135.20	222.96	0.08	MWD	None
97	3645.77	80.45	221.74	29.99	1134.98	3162.03	-2316.53	-2156.25	3164.76	222.95	0.37	MWD	None
98	3673.81	79.98	220.61	28.04	1139.75	3189.65	-2337.33	-2174.44	3192.38	222.93	1.31	MWD	None
99	3704.01	76.76	220.68	30.20	1145.83	3219.21	-2359.77	-2193.70	3221.93	222.91	3.25	MWD	None
100	3733.39	73.46	220.93	29.38	1153.38	3247.57	-2381.26	-2212.26	3250.30	222.89	3.43	MWD	None
101	3762.33	70.99	220.58	28.94	1162.22	3275.11	-2402.13	-2230.25	3277.84	222.88	2.62	MWD	None
102	3791.82	68.55	220.92	29.49	1172.41	3302.76	-2423.10	-2248.31	3305.49	222.86	2.54	MWD	None
103	3821.50	66.44	220.69	29.68	1183.77	3330.16	-2443.85	-2266.22	3332.89	222.84	2.18	MWD	None
104	3849.31	64.16	220.95	27.81	1195.39	3355.41	-2462.97	-2282.74	3358.14	222.83	2.51	MWD	None
105	3878.48	60.98	220.70	29.17	1208.83	3381.28	-2482.56	-2299.66	3384.01	222.81	3.33	MWD	None
106	3907.65	57.78	220.86	29.17	1223.68	3406.36	-2501.56	-2316.06	3409.10	222.79	3.35	MWD	None
107	3936.40	54.61	221.73	28.75	1239.68	3430.23	-2519.51	-2331.82	3432.97	222.78	3.45	MWD	None
108	3965.37	51.67	222.11	28.97	1257.05	3453.41	-2536.76	-2347.30	3456.15	222.78	3.11	MWD	None
109	3995.09	48.88	222.61	29.72	1276.05	3476.26	-2553.65	-2362.70	3479.00	222.78	2.89	MWD	None
110	4016.94	47.67	222.56	21.85	1290.59	3492.57	-2565.65	-2373.73	3495.31	222.77	1.69	MWD	None

Company: **ESSO Australia Pty Ltd**

Schlumberger

Well: **SNA A19A**

Field: **SNAPPER**

Rig: **ISDL 175**

12.25 In. Section

State: **Victoria**

Gamma Ray Service

1:500 True Vertical Depth

Real Time Log