



## WELL INFORMATION

<b>MWD Run Number</b>	100	200	400		
<b>Date run completed</b>	13-Apr-05	15-Apr-05	18-Apr-05		
<b>Rig Bit Number</b>	1	2	4		
<b>Bit Size (mm)</b>	216	216	216		
<b>Tool Nominal OD (mm)</b>	171	171	171		
<b>Log Start Depth (MD, m)</b>	853.00	1,514.00	1,808.00		
<b>Log End Depth (MD, m)</b>	1,514.00	1,808.00	1,941.00		
<b>Drill or Wipe</b>	Drilling	Drilling	Drilling		
<b>Drill/Wipe Start Date and Time</b>	10-Apr-05 16:35	13-Apr-05 07:02	17-Apr-05 11:00		
<b>Drill/Wipe End Date and Time</b>	12-Apr-05 17:26	15-Apr-05 02:53	17-Apr-05 17:30		
<b>Min Inc (deg) @ Depth (MD, m)</b>	2.36 @ 909.54	21.26 @ 1,771.45	19.03 @ 1,936.36		
<b>Max Inc (deg) @ Depth (MD, m)</b>	23.70 @ 1,397.82	22.06 @ 1,625.95	20.58 @ 1,855.71		
<b>Bit TFA(in2) / Bit Type</b>	1.180 / Smith MA89BVCTPX	1.108 / DBS FMF3553	1.357 / DBS FM3653		
<b>Flow Rate (gpm)</b>	715	700	680		
<b>Max AV (mpm) / CV (mpm) @ MWD</b>	210.0 / 215.0	210.0 / 191.4	198.6 / 210.6		
<b>Fluid Type</b>	AQUA-DRILL	AQUA-DRILL	AQUA-DRILL		
<b>Density (sg) / Viscosity (spl)</b>	1.25 / 60.20	1.25 / 67.50	1.25 / 91.80		
<b>Filtrate CL (ppm)</b>	39,000	47,000	52,000		
<b>pH / Fluid Loss (cptm)</b>	11.10 / 4.0	9.50 / 4.0	9.00 / 3.7		
<b>PV (cp) / YP (pa)</b>	37 / 13.90	38 / 16.00	41 / 19.63		
<b>% Solids / % Sand</b>	7.8 / 1.00	8.29 / 0.75	8.75 / 0.50		
<b>% Oil / Oil:Water Ratio</b>	N/A / NA:100	N/A / N/A:100	N/A / N/A:100		
<b>Rm @ Measured Temp (degC)</b>	0.11 @ 28.00	0.12 @ 23.00	0.14 @ 24.00		
<b>Rmf @ Measured Temp (degC)</b>	0.07 @ 29.00	0.09 @ 22.00	0.08 @ 24.00		
<b>Rmc @ Measured Temp (degC)</b>	0.22 @ 28.00	0.19 @ 23.00	0.29 @ 24.00		
<b>Max Tool Temp (degC) / Source</b>	75.00 / EWR-P4	75.00 / EWR-P4	73.00 / EWR-P4		
<b>Rm @ Max Tool Temp (degC)</b>	0.06 @ 75.00	0.06 @ 75.00	0.07 @ 73.00		
<b>Lead MWD Engineer</b>	T.Oborne	T.Oborne	T. Oborne		
<b>Customer Representative</b>	D.Thorpe	D. Thorpe	D. Thorpe		

## SENSOR INFORMATION

### Downhole Processor Information

Tool Type	HCIM	HCIM	HCIM		
Software Version	68.18	68.18	68.18		
Sub Serial Number	107429	107429	10562757		
Insert Serial Number	76442	76442	160772		
Logging String Serial Number	90069311XHWRG6	90069311XHWRG6	90069312XHWRG6		
Date and Time Initialized	10-Apr-05 11:20	13-Apr-05 07:46	16-Apr-05 21:50		
Date and Time Read	13-Apr-05 03:00:57	15-Apr-05 11:25:49	18-Apr-05 05:11:00		

### Directional Sensor Information

Tool Type	DM	DM	DM		
Distance From Bit (m)	8.97	8.98	3.14		
Software Version	3.15	3.15	3.15		
Sub Serial Number	783004	783004	30534076		
Sonde Serial Number	87896	87896	581139		
Sensor ID Number	N/A	N/A	N/A		
Survey String Serial Number	N/A	N/A	N/A		
Toolface Offset (deg)	N/A	N/A	N/A		

### Gamma Ray Sensor Information

Tool Type	DGR	DGR	DGR		
Distance From Bit (m)	11.53	11.54	5.57		
Recorded Sample Period (sec)	12	12	12		
Software Version	N/A	N/A	N/A		
Sub Serial Number	070755	070755	131257		
Insert/Sonde Serial Number	10505416	10505416	176691		

### Resistivity Sensor Information

Tool Type	EWR-P4	EWR-P4	EWR-P4		
Distance From Bit (m)	13.85	13.86	7.87		
Recorded Sample Period (sec)	14	14	12		
Software Version	1.38	1.38	1.38		
Sub Serial Number	65267	65267	197652		
Receiver Insert Serial Number	61101	61101	74703		
Transmitter Insert Serial Number	77011	77011	62499		
Receiver Orientation	Down	Down	Down		

### Neutron Sensor Information

Tool Type	CTN	CTN	CTN		
Distance From Bit (m)	26.13	26.14	20.06		
Recorded Sample Period (sec)	12	12	12		
Sub Serial Number	185450	185450	185450		
Insert Serial Number	173972	173972	173972		
Source Serial Number	0102NN	0102NN	0102NN		
Source Factor					
Pin Orientation	Up	Up	Up		

### Density Sensor Information

Tool Type	SLD	SLD	SLD		
Distance From Bit (m)	22.05	22.06	16.01		
Recorded Sample Period (sec)	14	14	12		
Software Version	11.00	11.00	11.00		
Sub Serial Number	105252	105252	105252		
Insert Serial Number	182726	182726	182726		
Sensor ID Number	226	226	226		

Source Serial Number	2615GW	2615GW	2615GW		
Pin Orientation	Up	Up	Up		
Stabilizer Blade O.D. (mm)	209.550	209.550	209.550		
DPA Offset	0	0	0		

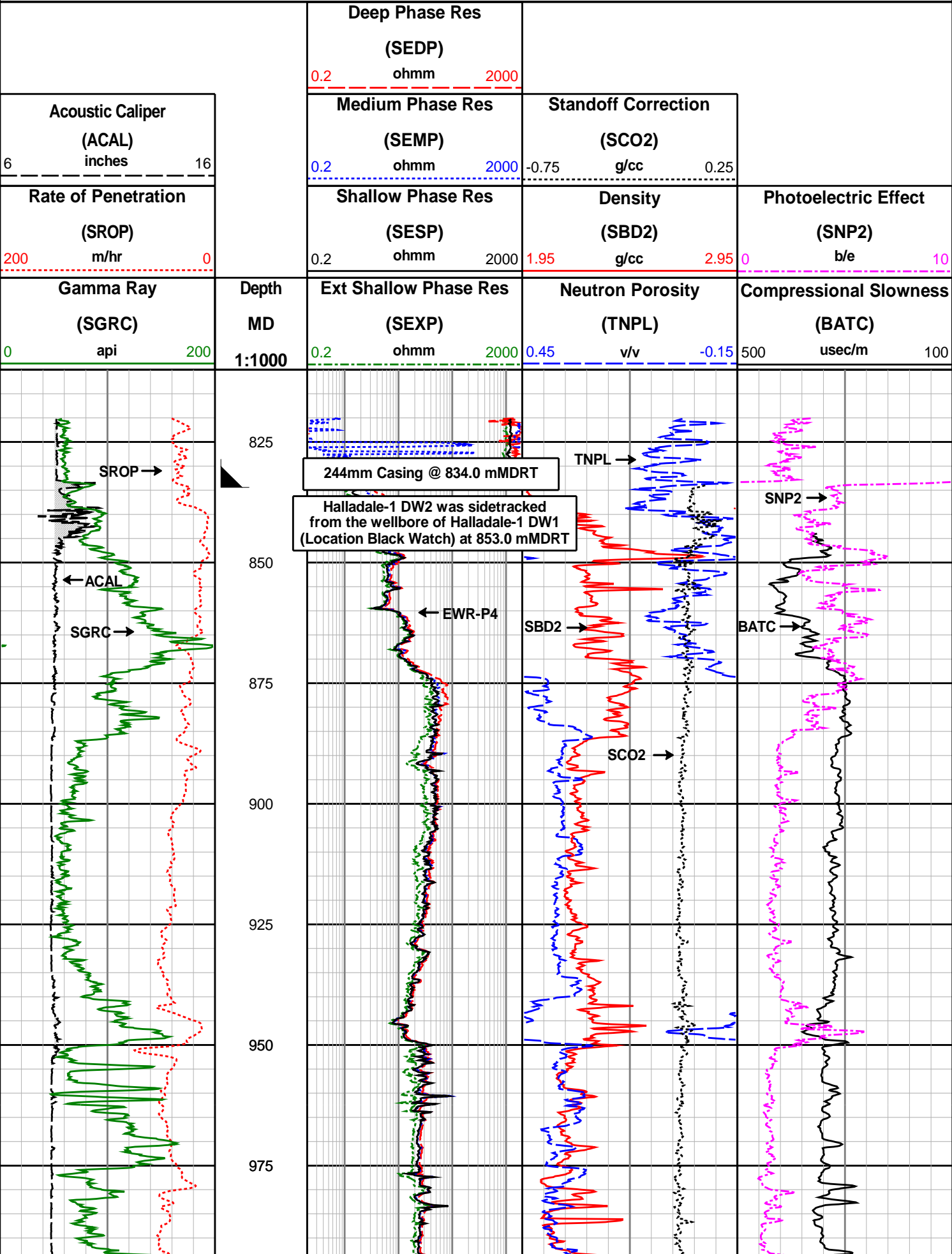
Sonic Sensor Information					
Tool Type	BAT	BAT	BAT		
Distance From Bit (m)	30.90	30.91	24.86		
Recorded Sample Period (sec)	18	18	16		
Software Version	4.00	4.00	4.00		
Sub Serial Number	179394	179393	179393		
Receiver Insert Serial Number	134954	145079	145079		
Transmitter Insert Serial Number	190319	190321	190321		

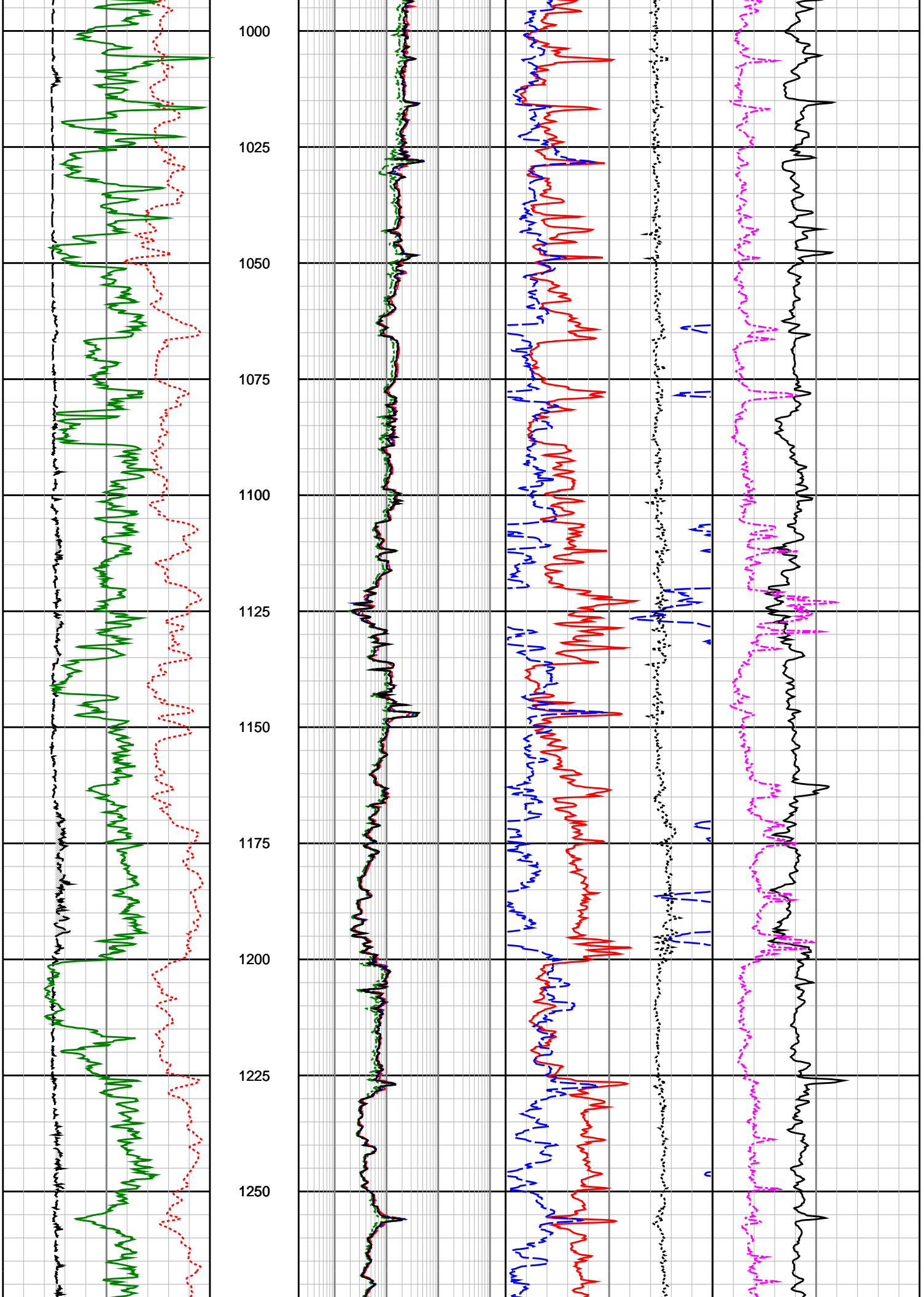
GeoPilot Sensor Information					
Tool Type	GP	GP			
Distance From Bit (m)	1.32	1.33			
Software Version	3	3			
Sub Serial Number	GP0850TL088	GP0850TL088			

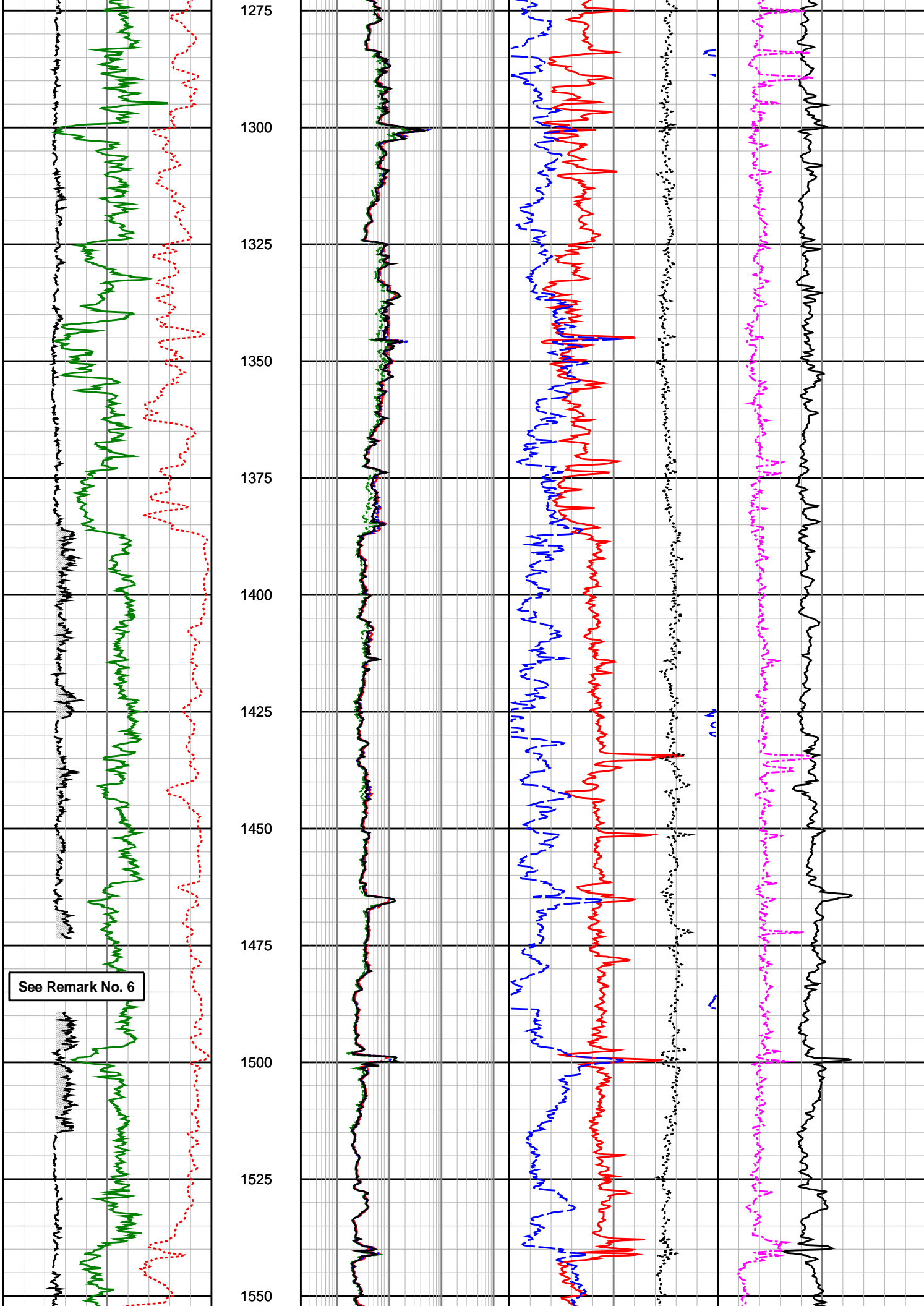
REMARKS					
<p>1. All depths are bit depths and referenced to the drillers pipe tally.</p> <p>2. AV/CV is calculated at the MWD collar using the Powers Law for water based muds and is in m/min.</p> <p>3. Curve mnemonics are:</p> <p>SGRC - Smoothed Gamma Ray Combined, api</p> <p>SEXP - Smoothed Extra Shallow Phase-Shift Derived Resistivity, ohm-m</p> <p>SESP - Smoothed Shallow Phase-Shift Derived Resistivity, ohm-m</p> <p>SEMP - Smoothed Medium Phase-Shift Derived Resistivity, ohm-m</p> <p>SEDP - Smoothed Deep Phase Resistivity, ohm-m</p> <p>SROP - Smoothed Rate of Penetration, m/hr</p> <p>ACAL - Smoothed ACAL Caliper, in</p> <p>SBD2 - Smoothed Best Bin Bulk Density Compensated, g/cc</p> <p>TNPL - Smoothed CTN Neutron Porosity corrected for Salinity, Temperature and Pressure, v/v</p> <p>SCO2 - Smoothed Best Bin Stand-off Correction, g/cc</p> <p>SNP2 - Smoothed Best Bin Near Detector PE, b/e</p> <p>BATC - Smoothed Bi-Modal Acoustic Compressional Slowness, us/m</p> <p>RUN_SPD - Smoothed Running Speed, m/hr</p> <p>4. CTN data has been processed using the following parameters:</p> <p>MW = 1.16 - 1.25</p> <p>Formation Salinity = 50,000 ppm Cl</p> <p>Mud Salinity = 41,000 - 49,000 ppm Cl</p> <p>Matrix Density = 2.71 g/cc</p> <p>Fluid Density = 1.00 g/cc</p> <p>5. CTN data has been reprocessed using data from the Caliper tool for borehole diameter.</p> <p>6. Acoustic Caliper data is missing due to memory fill.</p> <p>7. Data from 1808.0 - 1835.0 mMDRT was wiped after coring this interval prior to Run 400.</p>					

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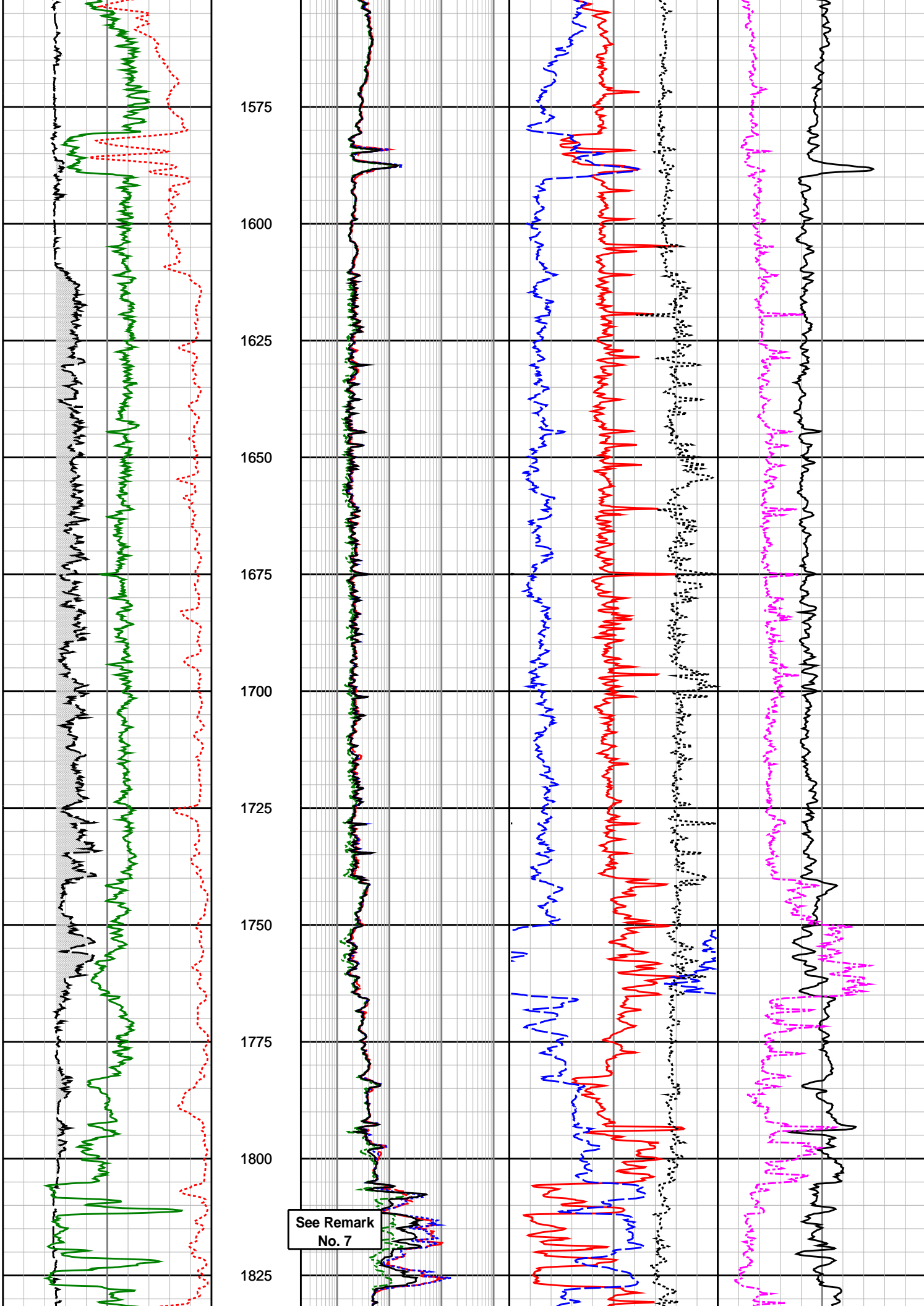
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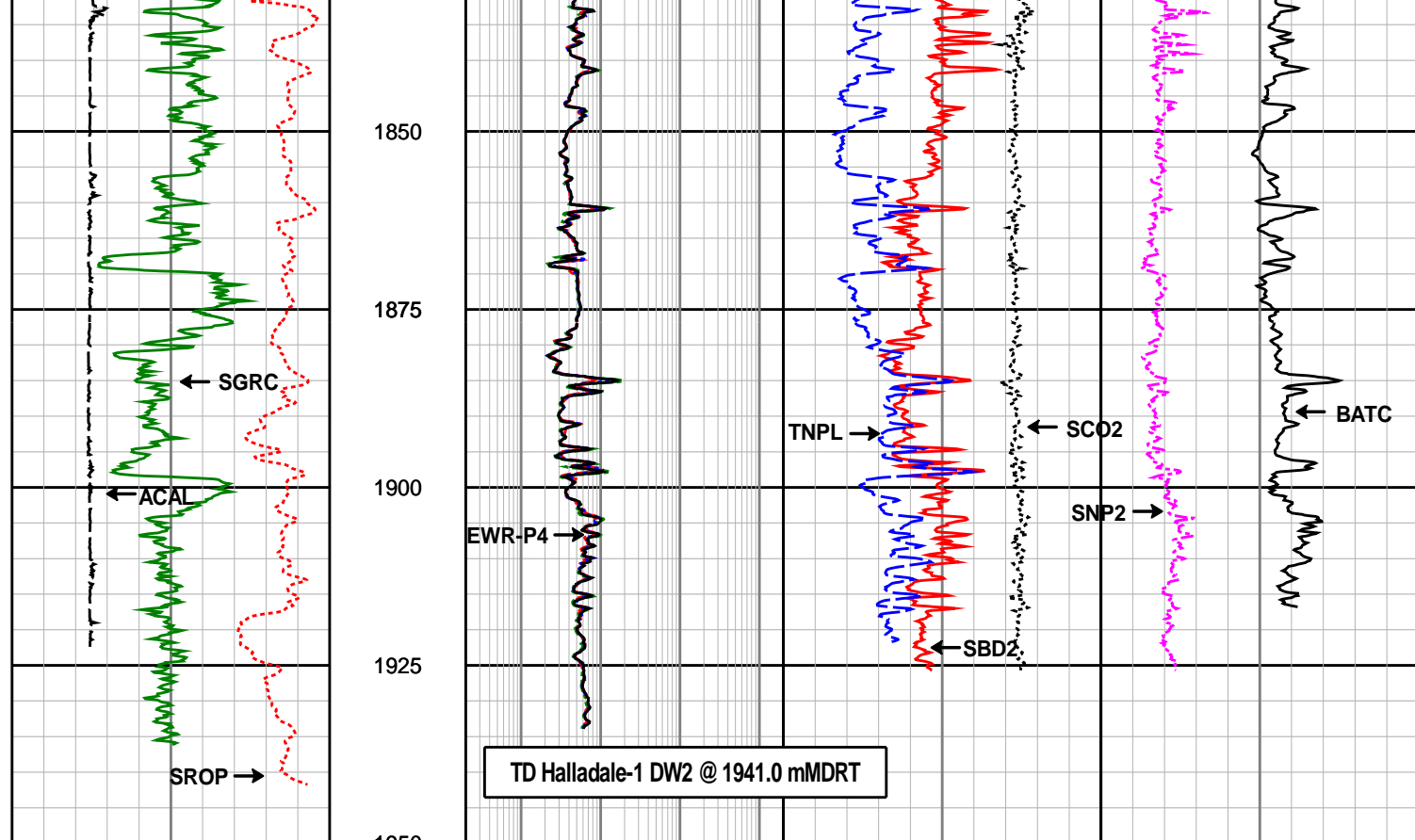












Gamma Ray (SGRC) api	Depth MD 1:1000	Ext Shallow Phase Res (SEXP) ohmm	Neutron Porosity (TNPL) v/v	Compressional Slowness (BATC) usec/m
0 200		0.2 2000	0.45 -0.15	500 100
Rate of Penetration (SROP) m/hr		Shallow Phase Res (SESP) ohmm	Density (SBD2) g/cc	Photoelectric Effect (SNP2) b/e
200 0		0.2 2000	1.95 2.95	0 10
Acoustic Caliper (ACAL) inches		Medium Phase Res (SEMP) ohmm	Standoff Correction (SCO2) g/cc	
6 16		0.2 2000	-0.75 0.25	
		Deep Phase Res (SEDP) ohmm		
		0.2 2000		

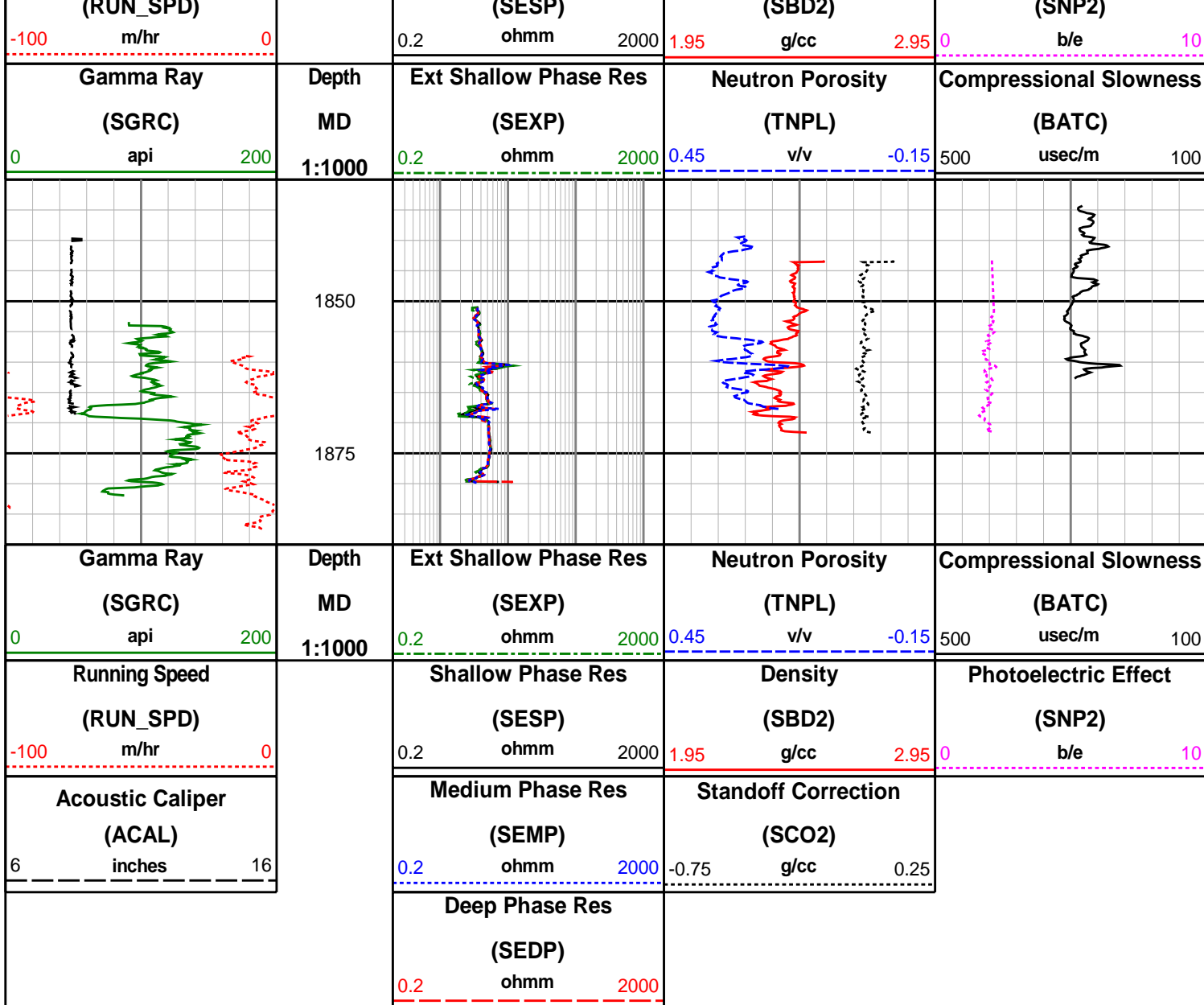
## Repeat Section 1

Section wiped while pumping and rotating after Run 400

From 1859.0 - 1888.0 mMDRT on 17th April 2005 18:14 - 19:05

Acoustic Caliper (ACAL) inches	Deep Phase Res (SEDP) ohmm	Medium Phase Res (SEMP) ohmm	Standoff Correction (SCO2) g/cc	Density (SBD2) g/cc	Photoelectric Effect (SNP2) b/e
6 16	0.2 2000	0.2 2000	-0.75 0.25	1.95 2.95	0 10
Running Speed (RPM) (SROP)	Shallow Phase Res (SEXP) ohmm	Neutron Porosity (TNPL) v/v	Compressional Slowness (BATC) usec/m		
	0.2 2000	0.45 -0.15	500 100		





# HALLIBURTON

## DIRECTIONAL SURVEY REPORT

Woodside Energy Ltd  
Halladale-1 DW2  
VIC  
Australia

AU-FE-0003325468

The final survey has been projected to TD. RT-LAT=21.5m

Measured Depth (metres)	Inclination (degrees)	Direction (degrees)	Vertical Depth (metres)	Latitude (metres)	Departure (metres)	Vertical Section (metres)	Dogleg (deg/30m)
810.510	4.59	213.32	810.220	1.716 S	9.639 W	-5.042	TIE-IN
852.560	4.74	218.31	852.131	4.485 S	11.640 W	-8.343	0.31
881.040	3.38	227.57	880.539	5.975 S	12.990 W	-10.216	1.59
909.540	2.36	275.21	909.007	6.489 S	14.194 W	-11.125	2.63
938.460	2.99	330.60	937.900	5.777 S	15.158 W	-10.805	2.64
967.340	4.38	356.47	966.721	4.020 S	15.595 W	-9.319	2.22
996.060	7.12	4.58	995.294	1.151 S	15.521 W	-6.612	2.98
1024.960	9.29	0.02	1023.897	2.968 N	15.377 W	-2.713	2.35
1055.560	12.32	353.37	1053.952	8.682 N	15.753 W	2.491	3.21
1084.420	14.52	350.57	1082.023	15.310 N	16.701 W	8.345	2.38
1112.890	16.05	349.61	1109.485	22.702 N	17.996 W	14.789	1.63
1141.340	17.92	346.59	1136.693	30.829 N	19.720 W	21.766	2.18
1169.860	20.36	343.90	1163.635	39.866 N	22.114 W	29.354	2.73
1198.200	21.57	340.05	1190.100	49.500 N	25.259 W	37.232	1.94

1226.910	21.90	339.02	1216.769	59.460 N	28.977 W	45.211	0.53
1256.080	22.21	337.21	1243.804	69.622 N	33.060 W	53.248	0.77
1284.960	21.89	340.96	1270.573	79.744 N	36.931 W	61.323	1.50
1311.610	23.12	342.06	1295.194	89.418 N	40.163 W	69.207	1.46
1340.280	23.01	345.53	1321.573	100.200 N	43.297 W	78.161	1.43
1368.830	22.99	346.35	1347.853	111.021 N	46.007 W	87.303	0.34
1397.820	23.70	346.53	1374.470	122.188 N	48.701 W	96.775	0.74
1426.750	22.93	345.84	1401.037	133.307 N	51.434 W	106.188	0.85
1454.770	22.79	347.81	1426.857	143.904 N	53.915 W	115.202	0.83
1503.000	21.72	346.50	1471.494	161.713 N	57.971 W	130.393	0.73
1510.750	21.22	346.89	1478.706	164.473 N	58.623 W	132.739	2.01
1539.560	21.91	348.03	1505.499	174.810 N	60.921 W	141.575	0.84
1568.700	21.37	347.26	1532.586	185.307 N	63.219 W	150.562	0.63
1597.380	21.89	344.99	1559.246	195.568 N	65.756 W	159.243	1.03
1625.950	22.06	342.29	1585.741	205.823 N	68.768 W	167.749	1.08
1654.300	21.72	343.30	1612.047	215.919 N	71.895 W	176.065	0.54
1683.200	21.55	344.71	1638.912	226.161 N	74.831 W	184.586	0.57
1714.560	21.72	343.34	1668.062	237.276 N	78.013 W	193.834	0.51
1742.320	21.67	344.05	1693.856	247.125 N	80.894 W	202.007	0.29
1771.450	21.26	343.64	1720.966	257.364 N	83.860 W	210.514	0.45
1795.600	21.51	343.38	1743.453	265.807 N	86.360 W	217.511	0.33
1855.710	20.58	343.78	1799.553	286.512 N	92.463 W	234.676	0.47
1884.130	19.43	342.64	1826.258	295.820 N	95.268 W	242.370	1.28
1912.690	19.24	343.45	1853.207	304.865 N	98.026 W	249.836	0.35
1936.360	19.03	343.20	1875.569	312.297 N	100.252 W	255.986	0.29
1941.000	19.03	343.20	1879.956	313.746 N	100.690 W	257.183	0.00

**CALCULATION BASED ON MINIMUM CURVATURE METHOD**

**SURVEY COORDINATES RELATIVE TO WELL SYSTEM REFERENCE POINT  
TVD VALUES GIVEN RELATIVE TO DRILLING MEASUREMENT POINT**

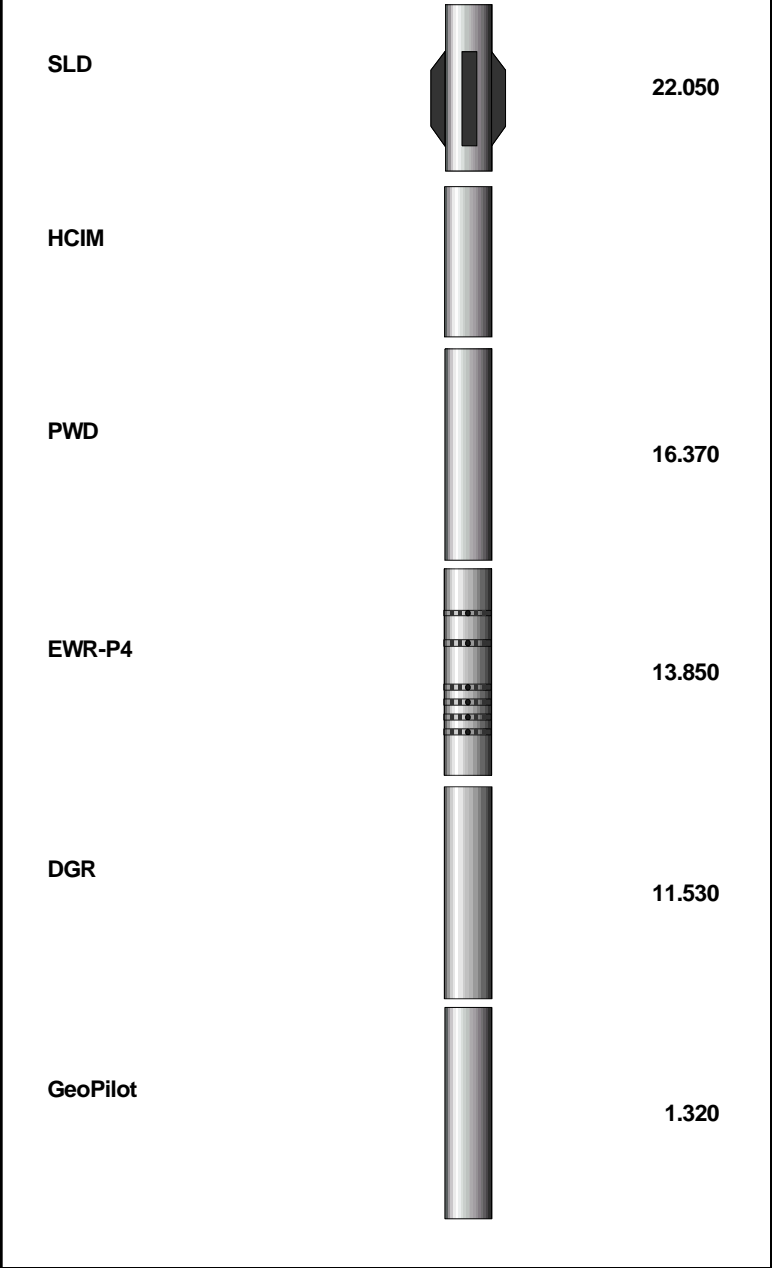
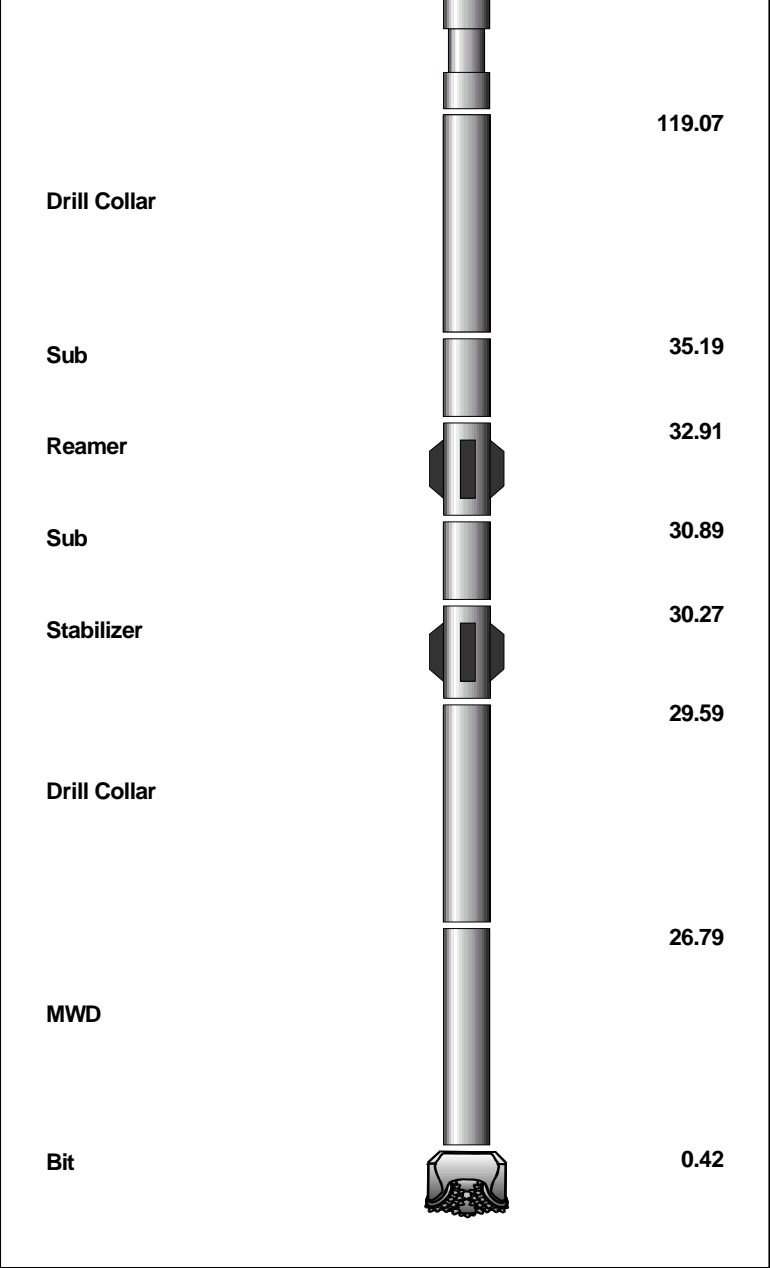
**VERTICAL SECTION RELATIVE TO WELL HEAD  
VERTICAL SECTION IS COMPUTED ALONG A DIRECTION OF 20.90 DEGREES (GRID)  
A TOTAL CORRECTION OF 11.97 DEG FROM MAGNETIC NORTH TO GRID NORTH HAS BEEN APPLIED**

**HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD.  
HORIZONTAL DISPLACEMENT(CLOSURE) AT 1941.000 METRES  
IS 329.507 METRES ALONG 342.21 DEGREES (GRID)**

# MWD RUN 100 - BHA

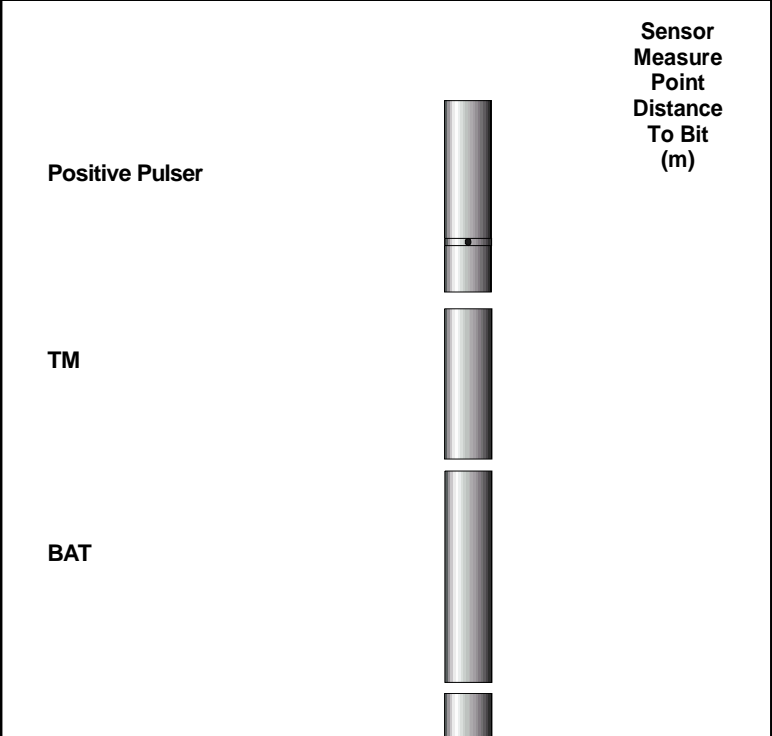
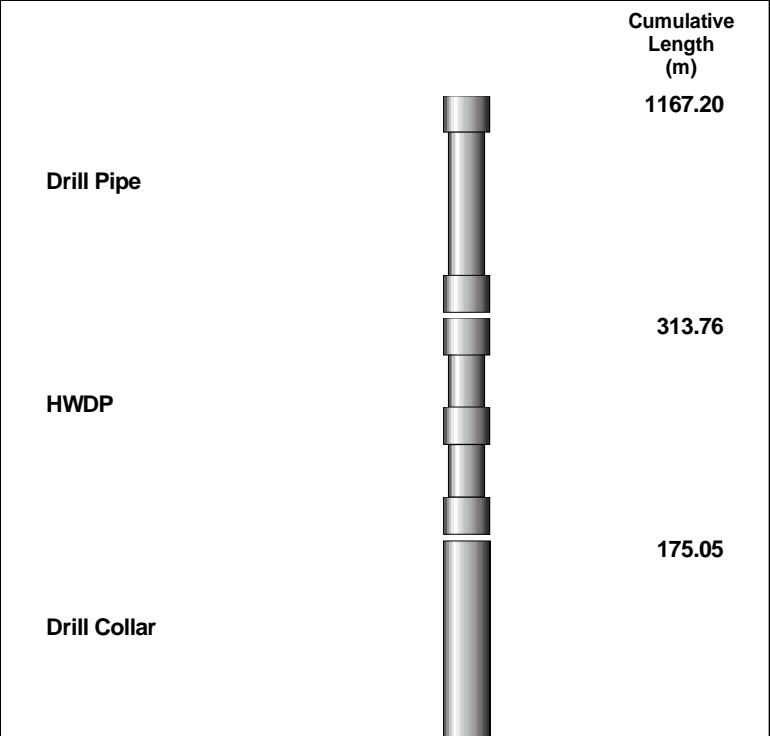
# MWD RUN 100 - MWD
















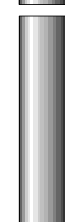




	Cumulative Length (m)		Sensor Measure Point Distance To Bit (m)
Drill Pipe	1139.71	Positive Pulser	
HWDP	286.27	TM	
Drill Collar	147.56	BAT	
Jar	128.87	CTN	26.130



MWD RUN 200 - BHA



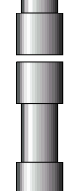

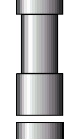

MWD RUN 200 - MWD

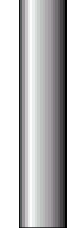



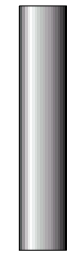




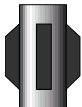
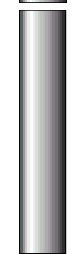

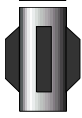
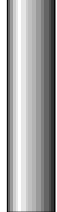




Jar		156.36	CTN		26.140
			SLD		22.060
Drill Collar		146.63	HCIM		
		34.79			
Reamer		32.51	PWD		16.370
Sub		30.90			
Stabilizer		30.28	EWR-P4		13.860
Drill Collar		29.60			
		26.80	DGR		11.540
MWD			GeoPilot		1.330
Bit		0.43			

# MWD RUN 400 - BHA

# MWD RUN 400 - MWD

Drill Pipe		Cumulative Length (m) 2810.48	Positive Pulser		Sensor Measure Point Distance To Bit (m)
		310.48	TM		
HWDP		171.77	BAT		

Drill Collar			153.08	CTN		20.060
Jar				SLD		16.010
Drill Collar			143.35	HCIM		
				PWD		10.400
Sub			31.51			
Sub			29.23			
Stabilizer			28.61	EWR-P4		7.870
			27.94	DGR		5.570
MWD						
Stabilizer			1.67			
Bit			0.30	PM	