

**DGR Dual Gamma Ray
ACAL Acoustic Caliper
EWR-Phase 4
ALD Azimuthal Lithodensity
CTN Compensated Thermal Neutron**

Sperry Drilling Services

1 : 500

Country		: Australia	
Field		: Exploration	
Location		: Lat: 38° 5' 8.75" South Long: 147° 33' 44.11" East	
Well		: Galloway-1	
Company		: SANTOS Ltd.	
Rig		: Ensign Rig 32	
LOCATION		Other Services Directional Drilling	
Latitude : 38° 5' 8.75" South Longitude : 147° 33' 44.11" East UTM Easting = 549,307.00 m UTM Northing = 5,784,519.99 m			
Company : SANTOS Ltd. Rig : Ensign Rig 32 Well : Galloway-1 Field : Exploration Country : Australia DOE Number :			

Permanent Datum : Mean Sea Level		Elevation : 0.00 m		Elev. KB	
Log Measured From : Drill Floor		8.60 m		DF 8.60 m	
Drilling Measured From : Drill Floor		Above Permanent Datum		GL 2.78 m	
		TVD LOG		WD	

Depth Logged : 314.88 m		To 1,364.69 m		Unit No. : 182		Job No. : AU-FE-0004392520	
Date Logged : 25-Jul-06		To 22-Aug-06		Plot Type : Final			
Total Depth MD : 2,315.00 m		TVD : 1,364.69 m		Plot Date : 04-Oct-06			
Spud Date : 25-Jul-06							

Run No.		Borehole Record (TVD)		Run No.		Borehole Record (TVD)	
Size		From To		Size		From To	
1	17,500 in	60.00 m	314.88 m				
2	12,250 in	314.88 m	525.19 m				
3	12,250 in	525.19 m	830.45 m				
4	8,500 in	830.45 m	848.32 m				
5	8,500 in	848.32 m	855.74 m	Size	Casing Record (TVD)		
6	8,500 in	855.74 m	965.75 m		Weight	From	To
7	8,500 in	965.75 m	1,364.69 m	20,000 in	198.00 kgpm	SURFACE	60.00 m
				13,380 in	101.00 kgpm	SURFACE	312.11 m
				9,625 in	70.00 kgpm	SURFACE	827.87 m

MWD Run Number	200	300	400	500	600
Date run completed	03-Aug-06	06-Aug-06	13-Aug-06	15-Aug-06	16-Aug-06
Rig Bit Number	3	4	7	8	8RR
Bit Size (in)	12.25	12.25	8.5	8.5	8.5
Tool Nominal OD (in)	8.00	8.00	6.75	6.75	6.75
Log Start Depth (TVD, m)	314.87	525.19	834.88	848.32	855.74
Log End Depth (TVD, m)	525.19	830.45	848.32	855.74	965.75
Drill or Wipe	Drilling	Drilling	Drilling	Drilling	Drilling
Drill/Wipe Start Date and Time	02-Aug-06 22:42	04-Aug-06 12:19	12-Aug-06 02:08	13-Aug-06 13:12	15-Aug-06 09:35
Drill/Wipe End Date and Time	03-Aug-06 14:45	06-Aug-06 02:19	12-Aug-06 14:24	14-Aug-06 20:52	16-Aug-06 06:41
Min Inc (deg) @ Depth (TVD, m)	22.40 @ 319.6	70.35 @ 550.27	69.84 @ 844.03	N/A @ N/A	47.98 @ 945.05
Max Inc (deg) @ Depth (TVD, m)	70.37 @ 520.63	73.81 @ 577.54	71.72 @ 834.93	N/A @ N/A	67.72 @ 854.73
Bit TFA(in2) / Bit Type	1.03 / Reed T11C	1.37 / Reed RSX516S	90 / Reed RSX616MB	90 / Reed RSX616MB	49 / Reed RSX616MB
Flow Rate (gpm)	701	770	580	554	600
Max AV (mpm) / CV (mpm) @ MWD	76.1 / 127.0	96.1 / 64.0	162.4 / 167.0	164.8 / 167.0	168.0 / 162.0
Fluid Type	Polymer	Polymer	Polymer	Polymer	Polymer
Density (sg) / Viscosity (spqt)	1.09 / 45	1.13 / 58	1.15 / 53	1.17 / 55	1.25 / 51
Filtrate CL (ppm)	25,307	34,742	30,062	30,062	36,602
pH / Fluid Loss (mptm)	10.00 / 5	9.00 / 5.8	9.50 / 5	9.50 / 5	9.00 / 9.0
PV (cP) / YP (lbf2)	12 / 14	22 / 40	12 / 21	16 / 24	21 / 29
% Solids / % Sand	3.4 / 0.75	4.6 / 1	6.5 / 0.1	6.6 / 0.3	8.6 / 0.2
% Oil / Oil:Water Ratio	0 / 0:100	0 / 0:100	0 / 0:100	0 / 0:100	0 / 0:100
Rm @ Measured Temp (degC)	N/A @ N/A	N/A @ N/A	0.15 @ 22.00	0.14 @ 21.00	0.10 @ 22.00
Rm_f @ Measured Temp (degC)	N/A @ N/A	0 @ N/A	0.12 @ 24.00	0.12 @ 20.00	0.09 @ 20.00
Rm_c @ Measured Temp (degC)	N/A @ N/A	N/A @ N/A	0.3 @ 24.00	0.25 @ 26.00	0.18 @ 22.00
Max Tool Temp (degC) / Source	51.00 / HCIM	67.00 / HCIM	47.00 / EWR-P4	52.00 / EWR-P4	67.00 / EWR-P4
Rm @ Max Tool Temp (degC)	N/A @ 51.00	N/A @ 67.00	0.10 @ 47.00	0.09 @ 52.00	0.03 @ 67.00
Lead MWD Engineer	A. Rule	A. Rule	M. Lee	M. Lee	M. Lee
Customer Representative	T. Reid	T. Reid	T. Reid	T. Reid	T. Reid

SENSOR INFORMATION

Downhole Processor Information					
Tool Type	HCIM	HCIM	HCIM	HCIM	HCIM
Software Version	72.13	72.13	72.13	72.13	72.13
Sub Serial Number	078516	078516	145273	145273	145273
Insert Serial Number	076895	076895	81832	81832	81832
Date and Time Initialized	02-Aug-06 15:32	04-Aug-06 00:49	11-Aug-06 14:53	13-Aug-06 21:32	15-Aug-06 04:48:08
Date and Time Read	03-Aug-06 19:49	06-Aug-06 16:25	13-Aug-06 00:04	15-Aug-06 02:05	16-Aug-06 14:41:15

Directional Sensor Information					
Tool Type	DM	DM	DM	DM	DM
Distance From Bit (m)	12.99	8.90	8.95	8.96	8.96
Software Version	3.15	3.15	3.15	3.15	3.15
Sub Serial Number	10603354	CP5763	CP1004338	CP1004338	CP1004338
Sonde Serial Number	85268	85267	85268	85268	85268
Sensor ID Number	N/A	N/A	N/A	N/A	N/A
Toolface Offset (deg)	168	Rotary	Rotary	Rotary	Rotary

Gamma Ray Sensor Information					
Tool Type	DGR	DGR	DGR	DGR	DGR
Distance From Bit (m)	16.34	11.99	11.42	11.43	11.43
Recorded Sample Period (sec)	12	12	12	12	12
Software Version	N/A	N/A	N/A	N/A	N/A
Sub Serial Number	177739	177739	176027	176027	176027
Insert/Sonde Serial Number	10602972	10602972	16131	16131	16131

Resistivity Sensor Information					
Tool Type			EWR-P4	EWR-P4	EWR-P4
Distance From Bit (m)			13.78	13.79	13.79
Recorded Sample Period (sec)			12	12	12
Software Version			1.38	1.38	1.38
Sub Serial Number			226818	226818	226818
Receiver Insert Serial Number			225217	225217	225217
Transmitter Insert Serial Number			225154	225154	225154
Receiver Orientation			Down	Down	Down

Neutron Sensor Information					
Tool Type			CTN	CTN	CTN
Distance From Bit (m)			26.16	26.75	26.75
Recorded Sample Period (sec)			12	12	12
Sub Serial Number			10603697	10603696	10603696
Insert Serial Number			192981	10508914	10508914
Source Serial Number			0044NN	0044NN	0044NN
Source Factor			N/A	N/A	N/A
Pin Orientation			Up	Up	Up

Density Sensor Information					
Tool Type			ALD	ALD	ALD
Distance From Bit (m)			22.10	22.69	22.69
Recorded Sample Period (sec)			16	16	16
Software Version			2.13	2.13	2.13
Sub Serial Number			96941	174401	174401
Insert Serial Number			10640614	215917	215917
Sensor ID Number			12024	32001	32001
Source Serial Number			2615GW	2852GW	2852GW
Pin Orientation			Up	Up	Up
Stabilizer Blade O.D. (in)			8.250	8.250	8.250
DPA Offset			100.00	250.00	250.00

Caliper Sensor Information					
Tool Type			ACAL		
Distance From Bit (m)			25.10		
Software Version			4.00		

Software Version			4.20		
Sub Serial Number			10603697		
Insert Serial Number			192981		

WELL INFORMATION					
MWD Run Number	700				
Date run completed	21-Aug-06				
Rig Bit Number	9				
Bit Size (in)	8.50				
Tool Nominal OD (in)	6.75				
Log Start Depth (TVD, m)	965.75				
Log End Depth (TVD, m)	1364.69				
Drill or Wipe	Drilling				
Drill/Wipe Start Date and Time	17-Aug-06 11:25				
Drill/Wipe End Date and Time	20-Aug-06 15:32				
Min Inc (deg) @ Depth (TVD, m)	0.92 @ 1333.80				
Max Inc (deg) @ Depth (TVD, m)	44.71 @ 965.06				
Bit TFA(in2) / Bit Type	0.92 / PDC				
Flow Rate (gpm)	570				
Max AV (mpm) / CV (mpm) @ MWD	157.0 / 205.0				
Fluid Type	Polymer				
Density (sg) / Viscosity (spqt)	1.26 / 60				
Filtrate CL (ppm)	34,742				
pH / Fluid Loss (mptm)	9.00 / 9.0				
PV (cP) / YP (lhf2)	25 / 36				
% Solids / % Sand	10.3 / 0.3				
% Oil / Oil:Water Ratio	0 / 0:100				
Rm @ Measured Temp (degC)	0.09 @ 28.00				
Rmf @ Measured Temp (degC)	0.06 @ 20.00				
Rmc @ Measured Temp (degC)	0.27 @ 26.00				
Max Tool Temp (degC) / Source	63.00 / EWR-P4				
Rm @ Max Tool Temp (degC)	0.04 @ 63.00				
Lead MWD Engineer	M. Lee				
Customer Representative	T. Reid				

SENSOR INFORMATION

Downhole Processor Information					
Tool Type	HCIM				
Software Version	72.13				
Sub Serial Number	145273				
Insert Serial Number	81832				
Date and Time Initialized	16-Aug-06 17:02:11				
Date and Time Read	21-Aug-06 01:32				

Directional Sensor Information					
Tool Type	DM				
Distance From Bit (m)	9.18				
Software Version	3.15				
Sub Serial Number	CP1004338				
Sonde Serial Number	85268				
Sensor ID Number	N/A				
Toolface Offset (deg)	Rotary				

Gamma Ray Sensor Information					
Tool Type	DGR				
Distance From Bit (m)	11.65				
Recorded Sample Period (sec)	12				
Software Version	N/A				
Sub Serial Number	176027				
Insert/Sonde Serial Number	16131				

Resistivity Sensor Information

Resistivity Sensor Information

Tool Type	EWR-P4				
Distance From Bit (m)	14.01				
Recorded Sample Period (sec)	12				
Software Version	1.38				
Sub Serial Number	226818				
Receiver Insert Serial Number	225217				
Transmitter Insert Serial Number	225154				
Receiver Orientation	Down				

Neutron Sensor Information

Tool Type	CTN				
Distance From Bit (m)	26.97				
Recorded Sample Period (sec)	12				
Sub Serial Number	10603696				
Insert Serial Number	10508914				
Source Serial Number	0044NN				
Source Factor	N/A				
Pin Orientation	Up				

Density Sensor Information

Tool Type	ALD				
Distance From Bit (m)	22.91				
Recorded Sample Period (sec)	16				
Software Version	2.13				
Sub Serial Number	174401				
Insert Serial Number	215917				
Sensor ID Number	32001				
Source Serial Number	2852GW				
Pin Orientation	Up				
Stabilizer Blade O.D. (in)	8.250				
DPA Offset	250.00				

Caliper Sensor Information

Tool Type					
Distance From Bit (m)					
Software Version					
Sub Serial Number					
Insert Serial Number					

REMARKS

1.) All depths are bit depths and are referenced to the driller's pipe tally unless otherwise noted.

2.) AV/CV values are calculated at the LWD collar using the Bingham Law for oil based mud, measured in m/min.

3.) Curve Mnemonics used are:

SGRC - Smoothed Combined Gamma Ray, api
SROP - Smoothed Rate of Penetration, m/hr
SEXP - Smoothed Extra-Shallow Phase Resistivity, ohm-metre
SESP - Smoothed Shallow Phase Resistivity, ohm-metre
SEMP - Smoothed Medium Phase Resistivity, ohm-metre
SEDP - Smoothed Deep Phase Resistivity, ohm-metre
ACAL - Smoothed Acoustic Caliper Hole Size, inches
SC02 - Smoothed Best Bin Stand Off Correction, g/cc
SBD2 - Smoothed Best Bin Bulk Density, g/cc
SNP2 - Smoothed Near Detector Pe, b/e
TNPL - Smoothed Compensated Thermal Neutron Porosity (LS), v/v

4.) CTN data processed using the CTN algorithm using the following parameters and is based on a Limestone matrix:

MW = 1.19 - 1.25 SG
Formation Salinity = 50,000 ppm Cl
Mud Salinity = 28177 - 39378 ppm
Matrix Density = 2.71 g/cc

Matrix Density = 2.71 g/cc
Fluid Density = 1.00 g/cc

5.) CTN data has been reprocessed using hole size derived from the Acoustic Caliper tool for run 400 and the ALD tool (HSI) for run 500.

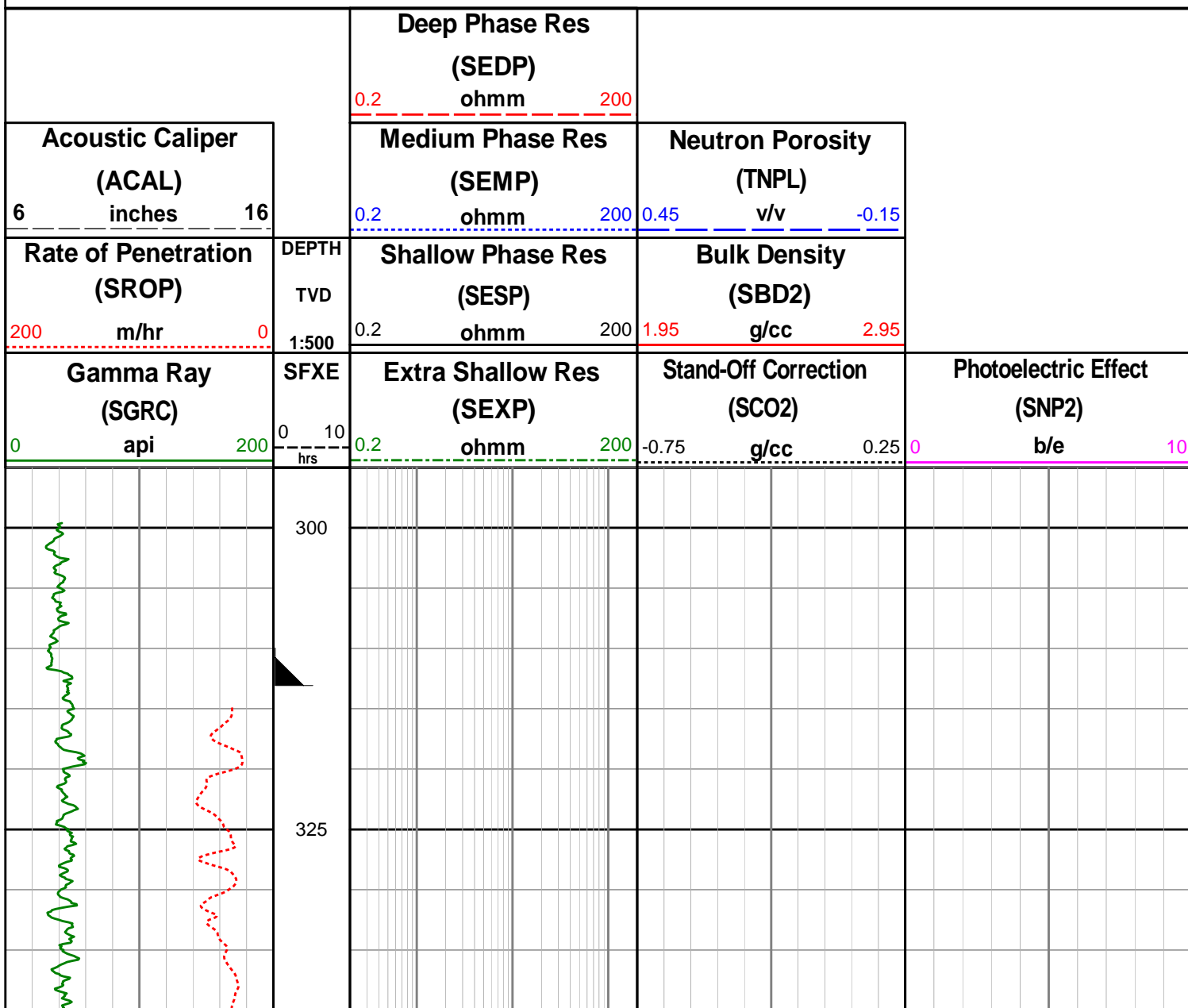
6.) CTN data is not presented from 827.9 to 839.5 mTVDRT due to tool failure.

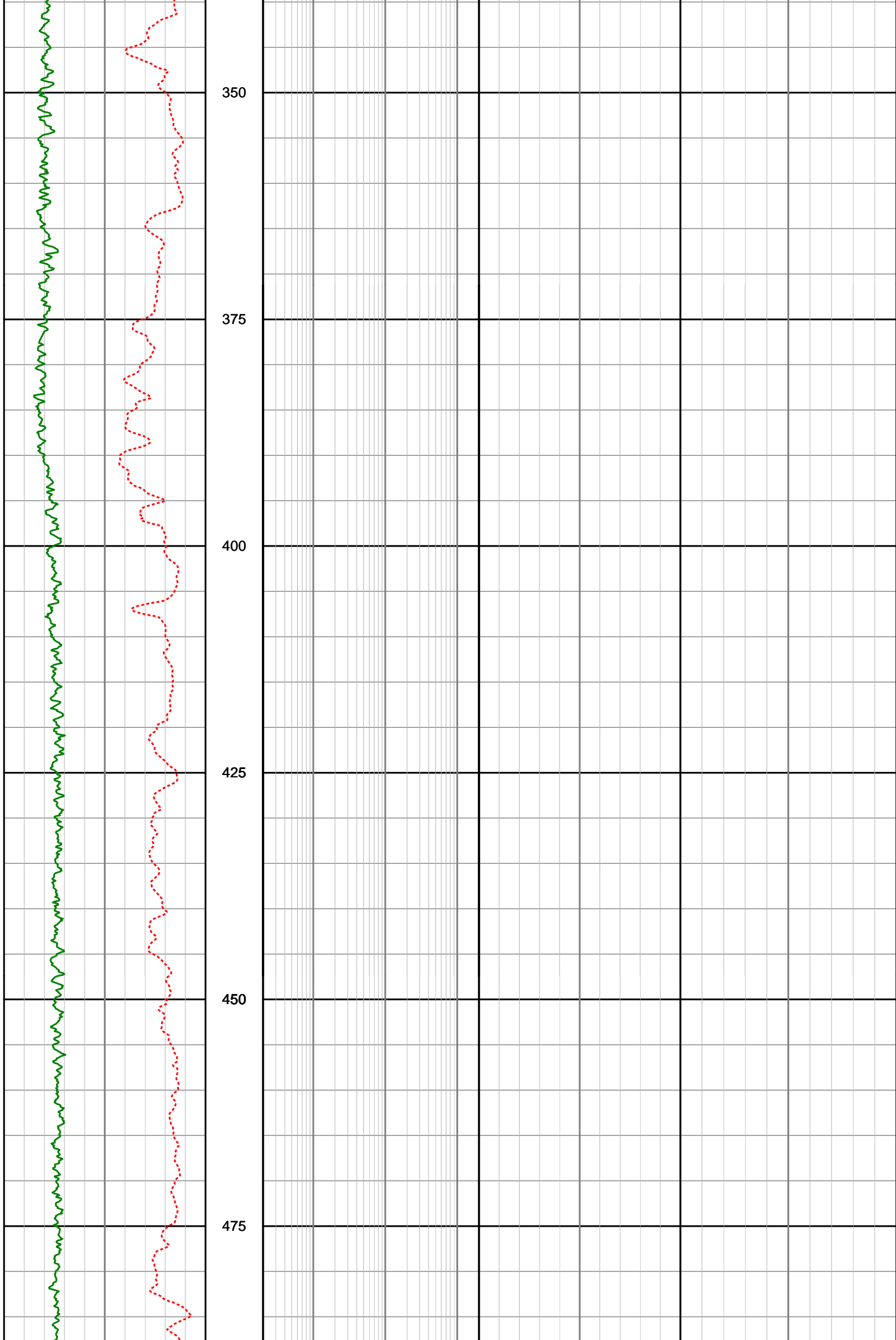
7.) Hole size indicator (HSI) from the ALD tool has been presented, from 848.3 to 1342.1 mTVDRT, as the Acoustic Caliper (ACAL) was not used during runs 500, 600 and 700.

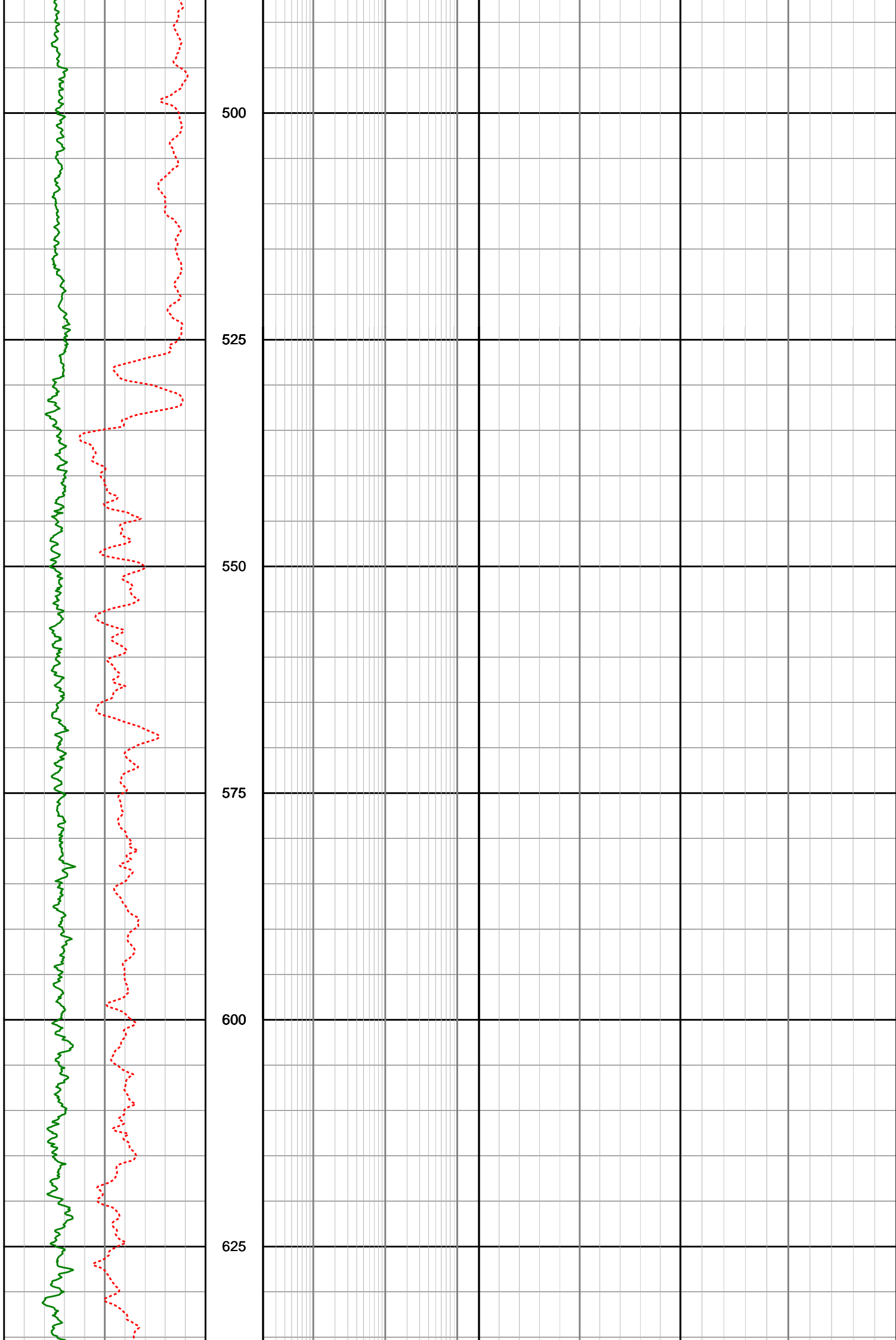
8.) The ALD tool was not setup for Azimuthal sampling for the 8½" hole section.

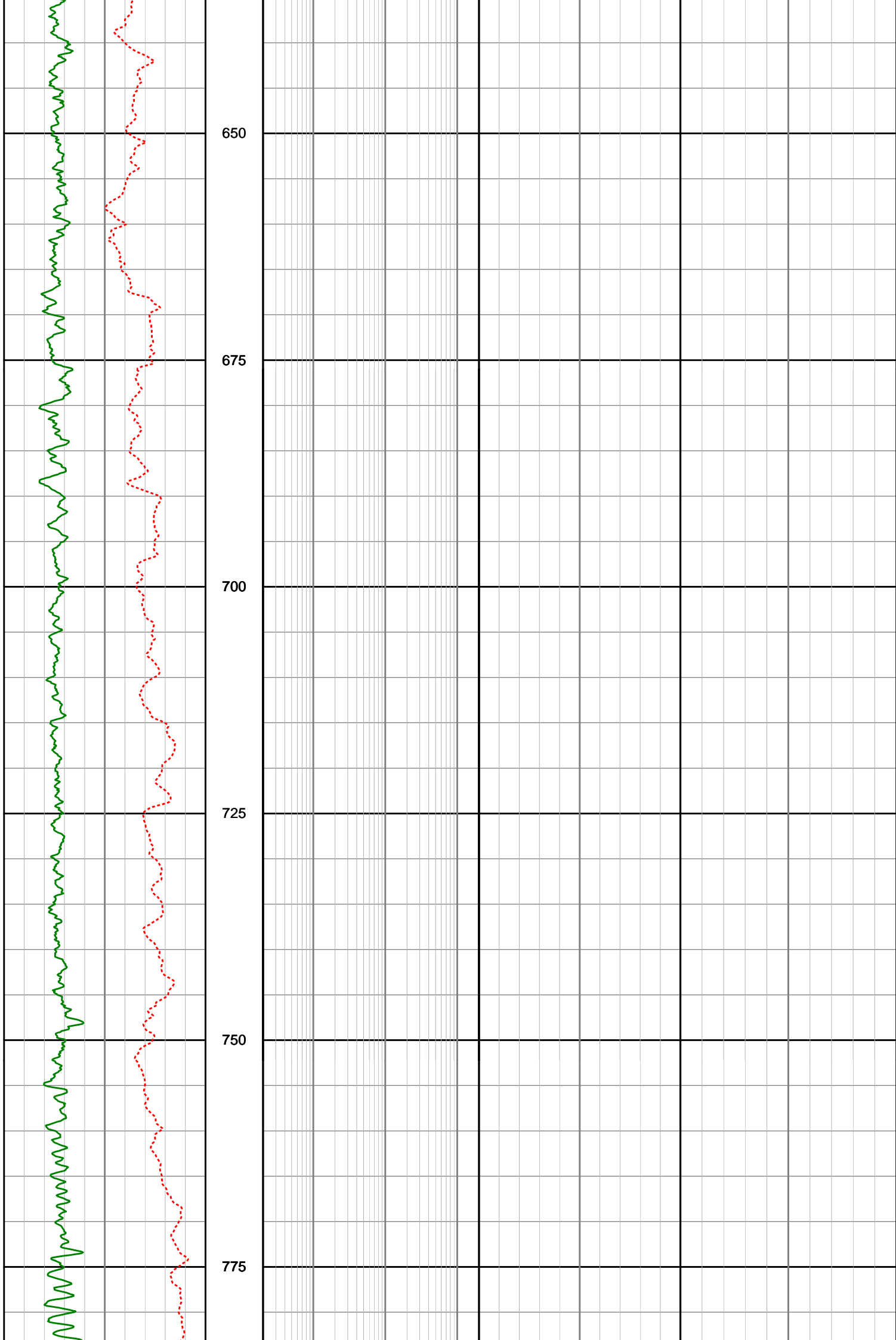
WARRANTY

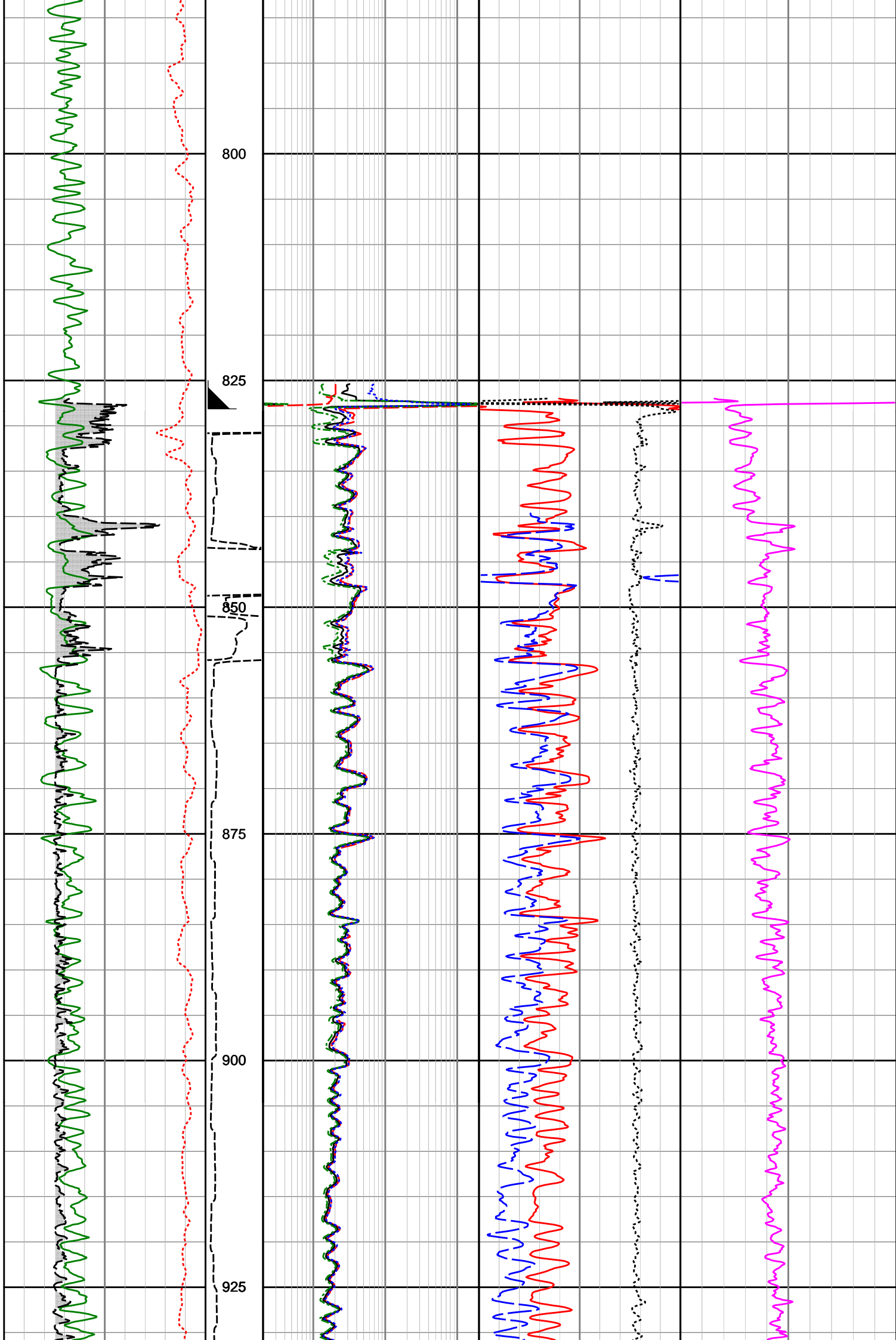
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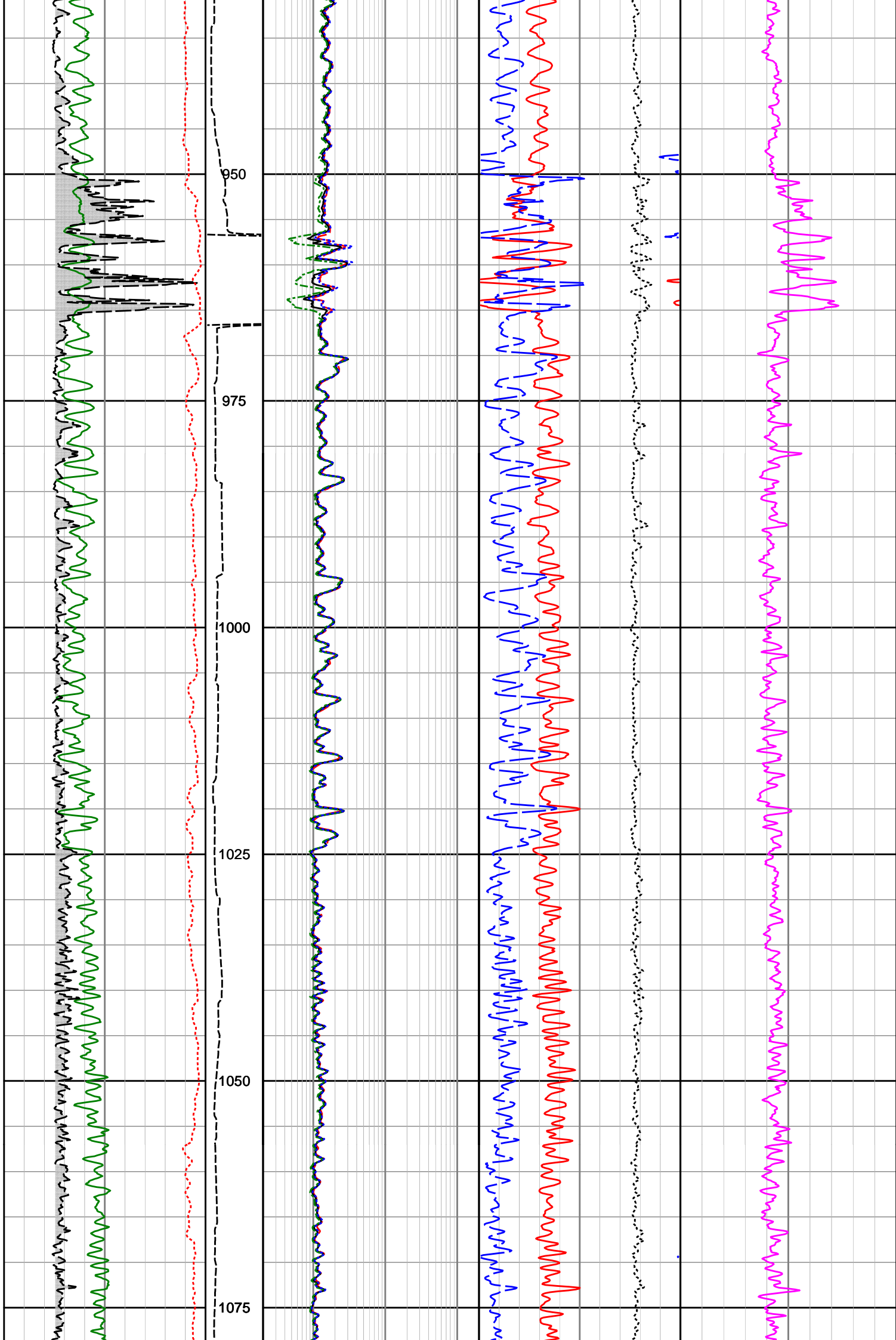


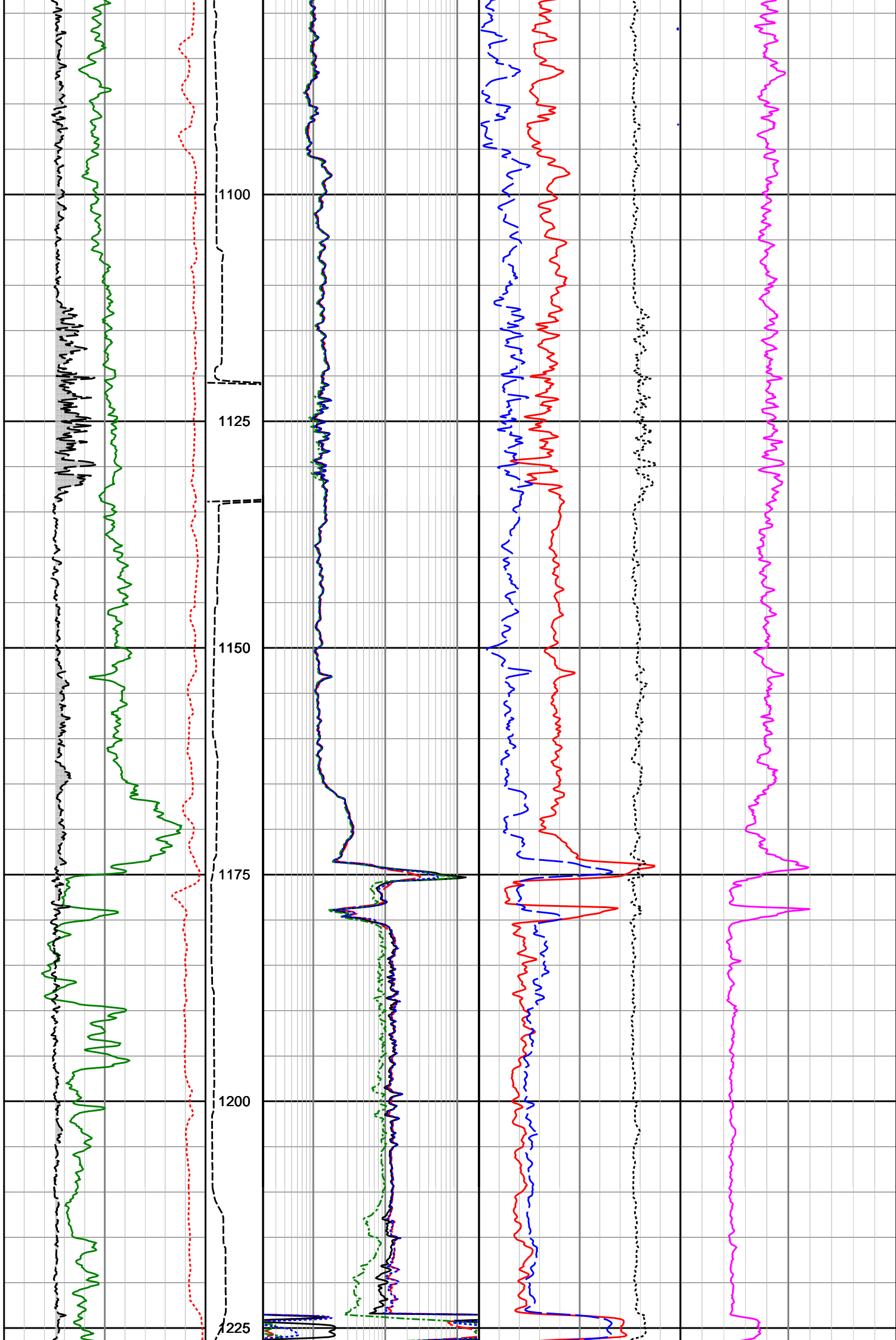


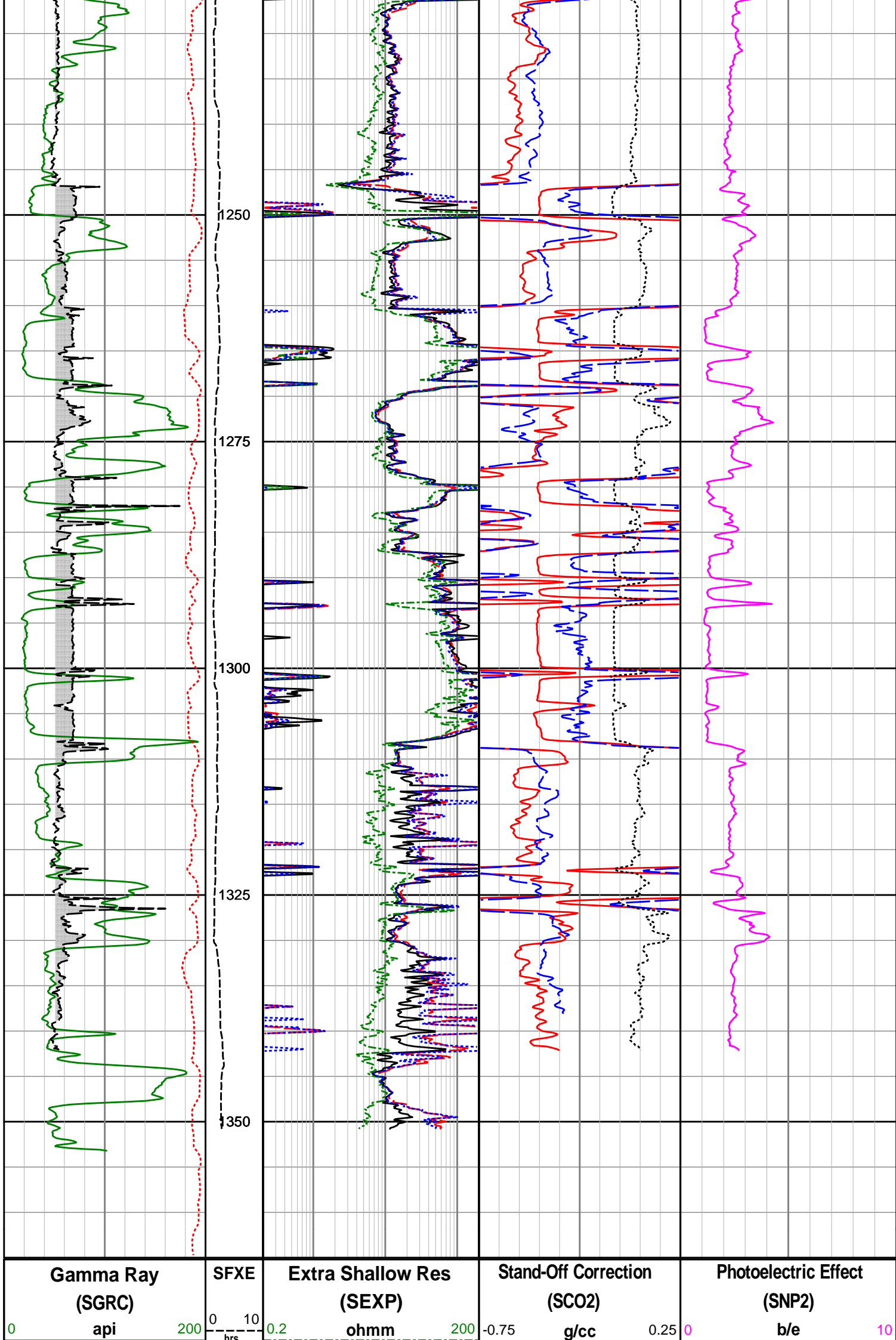












Rate of Penetration (SROP)	DEPTH	Shallow Phase Res (SESP)	Bulk Density (SBD2)
200 m/hr 0	TVD 1:500	0.2 ohmm 200	1.95 g/cc 2.95
Acoustic Caliper (ACAL)		Medium Phase Res (SEMP)	Neutron Porosity (TNPL)
6 inches 16		0.2 ohmm 200	0.45 v/v -0.15
		Deep Phase Res (SEDP)	
		0.2 ohmm 200	



Sperry Drilling Services

DIRECTIONAL SURVEY REPORT

SANTOS Ltd.
Galloway-1
Exploration
VIC
Australia
AU-FE-000439252
Final survey has been projected to TD.
RT - MSL = 8.6m

Measured Depth (metres)	Inclination (degrees)	Direction (degrees)	Vertical Depth (metres)	Latitude (metres)	Departure (metres)	Vertical Section (metres)	Dogleg (deg/30m)
0.000	0.00	0.00	0.000	0.000 N	0.000 E	0.000	TIE-IN
68.730	0.22	154.70	68.730	0.119 S	0.056 E	0.106	0.10
89.740	0.64	277.76	89.739	0.140 S	0.043 W	0.029	1.12
118.310	0.63	112.18	118.309	0.178 S	0.055 W	0.036	1.32
125.390	0.31	210.53	125.389	0.209 S	0.029 W	0.074	3.14
146.550	1.33	135.42	146.547	0.433 S	0.114 E	0.307	1.82
163.200	2.41	112.53	163.188	0.705 S	0.573 E	0.840	2.33
175.900	2.70	134.29	175.875	1.016 S	1.034 E	1.394	2.37
190.200	4.40	115.22	190.148	1.485 S	1.772 E	2.265	4.30
204.730	5.78	113.55	204.620	2.015 S	2.947 E	3.551	2.87
219.700	8.44	111.19	219.474	2.713 S	4.662 E	5.392	5.36
233.580	10.99	113.04	233.154	3.599 S	6.830 E	7.720	5.55
247.700	13.99	113.35	246.938	4.803 S	9.636 E	10.760	6.38
261.590	16.60	112.23	260.335	6.219 S	13.015 E	14.405	5.67
276.520	19.07	117.09	274.547	8.137 S	17.161 E	18.964	5.79
291.260	21.66	120.03	288.365	10.596 S	21.661 E	24.092	5.67
303.700	23.23	118.68	299.862	12.922 S	25.801 E	28.840	3.98
325.211	22.40	120.78	319.690	17.056 S	33.044 E	37.178	1.62
334.100	23.32	120.73	327.881	18.821 S	36.012 E	40.629	3.11
341.630	24.17	120.94	334.774	20.376 S	38.615 E	43.658	3.40
354.390	25.45	121.32	346.356	23.144 S	43.198 E	49.007	3.03
368.840	26.91	120.74	359.323	26.429 S	48.661 E	55.375	3.08
382.560	29.25	120.44	371.427	29.715 S	54.220 E	61.829	5.13
398.500	32.80	120.73	385.085	33.896 S	61.291 E	70.038	6.69
411.790	34.80	121.09	396.128	37.694 S	67.634 E	77.424	4.54
426.360	36.07	120.21	407.999	41.999 S	74.901 E	85.865	2.82
441.550	39.04	119.30	420.040	46.591 S	82.939 E	95.120	5.97
454.180	41.35	119.26	429.687	50.578 S	90.049 E	103.270	5.49
470.210	44.59	118.69	441.414	55.869 S	99.607 E	114.195	6.11
483.690	47.79	118.33	450.745	60.510 S	108.154 E	123.921	7.15
498.440	50.43	118.30	460.400	65.799 S	117.970 E	135.070	5.37
512.240	53.16	117.92	468.934	70.907 S	127.534 E	145.913	5.97
527.620	56.02	117.93	477.844	76.777 S	138.609 E	158.446	5.58
541.360	58.57	119.10	485.268	82.297 S	148.766 E	170.007	5.97
556.000	60.63	119.75	492.676	88.501 S	159.763 E	182.632	4.37
570.640	62.05	120.65	499.697	94.963 S	170.865 E	195.472	3.33
584.890	64.27	121.30	506.131	101.507 S	181.766 E	208.174	4.83
598.880	66.35	122.11	511.974	108.188 S	192.579 E	220.864	4.73
613.580	68.65	121.68	517.599	115.363 S	204.109 E	234.420	4.76
622.250	70.37	121.24	520.634	119.601 S	211.036 E	242.531	6.12
654.810	71.72	121.17	531.210	135.555 S	237.374 E	273.290	1.25
683.790	70.55	121.69	540.581	149.855 S	260.774 E	300.677	1.31

712.750	70.35	122.39	550.271	164.332 S	283.907 E	327.915	0.71
741.720	71.06	123.87	559.844	179.276 S	306.804 E	355.167	1.62
770.660	71.98	125.52	569.018	194.900 S	329.369 E	382.453	1.88
799.620	73.81	126.25	577.536	211.124 S	351.793 E	409.901	2.03
828.550	73.62	125.41	585.648	227.380 S	374.307 E	437.443	0.86
857.490	72.83	124.33	594.001	243.221 S	397.039 E	464.980	1.35
886.430	71.86	122.55	602.778	258.418 S	420.049 E	492.453	2.03
915.360	70.94	122.36	612.006	273.132 S	443.185 E	519.806	0.97
944.350	71.53	122.47	621.331	287.846 S	466.357 E	547.191	0.62
973.270	72.75	121.46	630.201	302.417 S	489.709 E	574.666	1.61
1002.250	72.51	119.57	638.854	316.460 S	513.536 E	602.306	1.88
1031.200	72.38	117.86	647.586	329.721 S	537.742 E	629.906	1.69
1060.160	71.85	117.00	656.480	342.418 S	562.203 E	657.461	1.01
1089.080	71.39	116.01	665.599	354.666 S	586.763 E	684.889	1.09
1118.040	71.67	115.22	674.774	366.541 S	611.531 E	712.322	0.83
1147.010	71.72	114.43	683.873	378.088 S	636.494 E	739.769	0.78
1175.950	71.38	114.73	693.032	389.507 S	661.458 E	767.158	0.46
1204.930	71.66	115.31	702.218	401.132 S	686.365 E	794.592	0.64
1233.870	71.80	114.62	711.290	412.730 S	711.278 E	822.021	0.69
1262.800	72.05	114.78	720.266	424.223 S	736.264 E	849.463	0.30
1291.770	72.51	114.84	729.084	435.802 S	761.312 E	877.001	0.48
1320.700	72.00	115.71	737.901	447.566 S	786.228 E	904.511	1.01
1349.570	71.48	115.11	746.947	459.330 S	810.992 E	931.887	0.80
1378.370	70.75	115.43	756.268	470.963 S	835.634 E	959.093	0.82
1407.210	70.63	115.67	765.805	482.702 S	860.189 E	986.274	0.27
1436.050	70.95	116.59	775.295	494.696 S	884.640 E	1013.485	0.96
1464.900	71.22	116.99	784.647	506.997 S	909.002 E	1040.765	0.48
1493.720	71.07	117.29	793.961	519.438 S	933.273 E	1068.031	0.33
1522.570	71.02	117.07	803.332	531.902 S	957.545 E	1095.309	0.22
1551.400	70.95	118.07	812.725	544.517 S	981.707 E	1122.562	0.99
1580.210	71.07	117.93	822.100	557.306 S	1005.760 E	1149.803	0.19
1596.100	71.07	117.39	827.255	564.284 S	1019.073 E	1164.832	0.96
1620.160	71.72	118.44	834.932	574.959 S	1039.222 E	1187.633	1.48
1647.790	69.84	118.53	844.028	587.400 S	1062.153 E	1213.721	2.05
1677.350	67.72	119.25	854.727	600.711 S	1086.278 E	1241.274	2.25
1706.300	64.96	118.42	866.343	613.501 S	1109.503 E	1267.788	2.96
1735.260	61.92	118.32	879.291	625.809 S	1132.292 E	1293.688	3.16
1764.180	58.81	117.25	893.591	637.529 S	1154.525 E	1318.819	3.36
1793.140	55.54	117.44	909.288	648.704 S	1176.139 E	1343.146	3.39
1822.110	51.89	116.24	926.430	659.251 S	1196.969 E	1366.484	3.90
1851.050	47.98	115.64	945.053	668.940 S	1216.881 E	1388.607	4.08
1880.030	44.71	114.61	965.055	677.846 S	1235.860 E	1409.536	3.47
1908.970	41.14	113.88	986.242	685.943 S	1253.827 E	1429.188	3.73
1937.900	37.77	114.06	1008.576	693.410 S	1270.624 E	1447.513	3.50
1966.870	33.71	114.22	1032.085	700.327 S	1286.063 E	1464.382	4.21
1995.760	30.21	114.36	1056.593	706.615 S	1300.000 E	1479.630	3.64
2024.650	26.31	113.76	1082.035	712.195 S	1312.485 E	1493.264	4.06
2053.450	22.08	113.22	1108.298	716.903 S	1323.306 E	1505.021	4.41
2082.290	19.06	112.80	1135.297	720.866 S	1332.631 E	1515.107	3.15
2111.130	15.99	111.66	1162.795	724.157 S	1340.665 E	1523.737	3.22
2139.980	13.10	108.53	1190.718	726.663 S	1347.459 E	1530.904	3.10
2168.790	9.86	104.21	1218.948	728.307 S	1352.949 E	1536.513	3.49
2197.640	6.92	99.24	1247.486	729.192 S	1357.061 E	1540.549	3.14
2226.470	3.33	92.87	1276.197	729.513 S	1359.612 E	1542.944	3.78
2255.270	1.11	90.43	1304.973	729.557 S	1360.727 E	1543.945	2.31
2284.100	0.92	88.16	1333.799	729.552 S	1361.238 E	1544.391	0.21
2303.740	1.19	92.86	1353.436	729.557 S	1361.598 E	1544.710	0.43
2315.000	1.19	92.86	1364.693	729.569 S	1361.832 E	1544.921	0.01

CALCULATION BASED ON MINIMUM CURVATURE METHOD

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

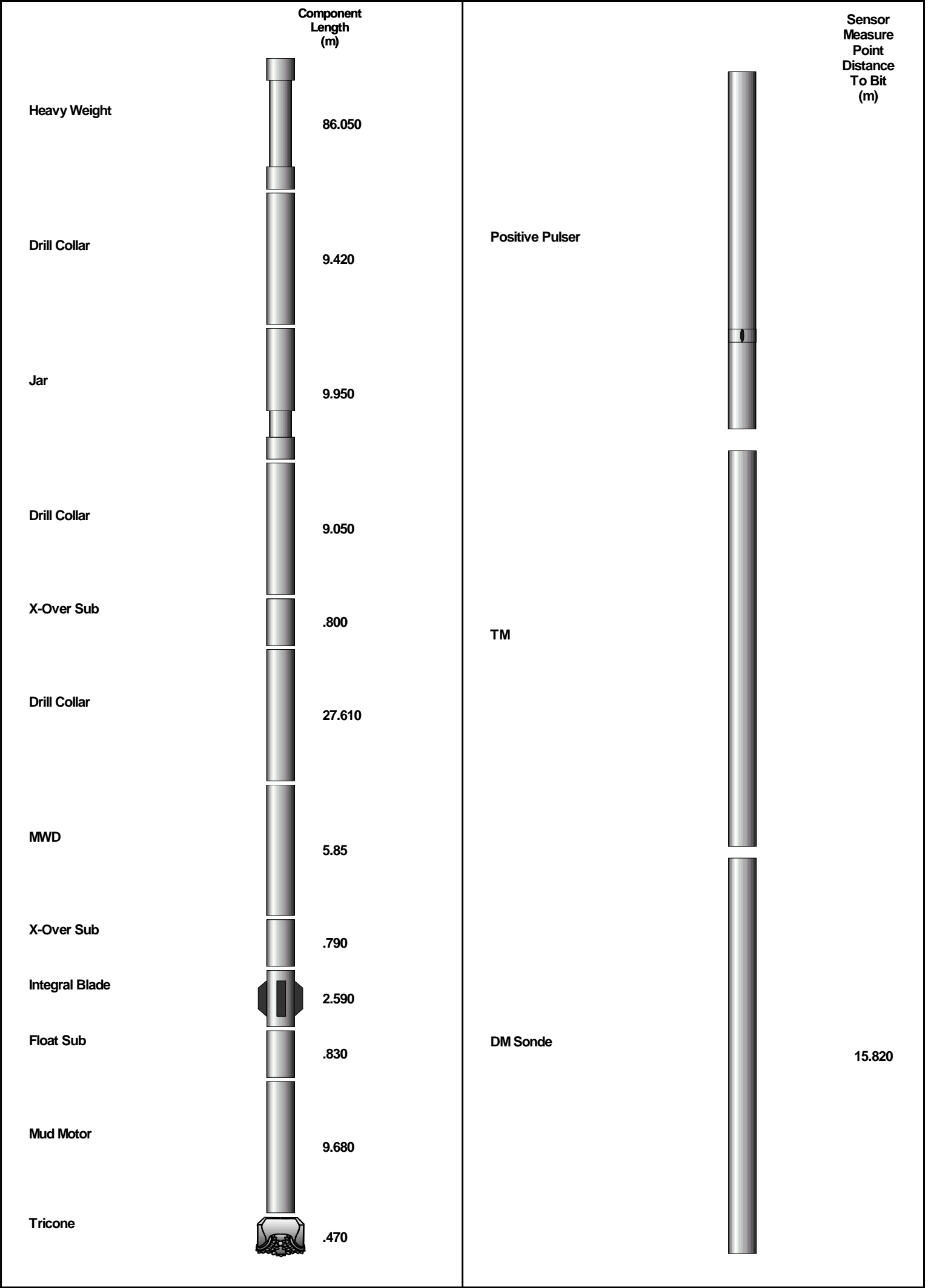
**VERTICAL SECTION RELATIVE TO WELL HEAD
VERTICAL SECTION IS COMPUTED ALONG A DIRECTION OF 118.50 DEGREES (GRID)
A TOTAL CORRECTION OF 13.14 DEG FROM MAGNETIC NORTH TO GRID NORTH HAS BEEN APPLIED**

**HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD.
HORIZONTAL DISPLACEMENT(CLOSURE) AT 2315.000 METRES
IS 1544.945 METRES ALONG 118.18 DEGREES (GRID)**

Date Printed:04 October 2006



















MWD RUN 100 - BHA

MWD RUN 100 - MWD



MWD RUN 200 - BHA

MWD RUN 200 - MWD

		Component Length (m)			Sensor Measure Point Distance To Bit (m)
Heavy Weight		86.050	TM		
Drill Collar		9.420	Positive Pulser		
Jar		9.950	HCIM Insert		
Drill Collar		9.050	PWD Insert		17.210
X-Over Sub		.800	DDS Insert		0
Drill Collar		27.610	DGR Insert		16.340
MWD		11.21	DM Sonde		12.990
Integral Blade		1.890			
Float Sub		.650			
Mud Motor		8.160			
Tricone		.820			






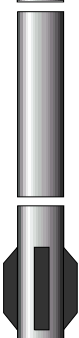










MWD RUN 300 - BHA











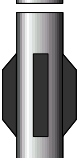

















MWD RUN 300 - MWD

Component

Sensor

MWD RUN 400 - BHA			MWD RUN 400 - MWD		
	Component Length			Sensor Measure	
	Length (m)			Measure Point Distance To Bit (m)	
Heavy Weight	57.170		Positive Pulser		
Jar	9.950				
			TM		
Heavy Weight	86.050				
X-Over Sub	.800		HCIM Insert		
Float Sub	.650				
String Reamer	2.010		PWD Insert	12.860	
MWD	8.44				
Flex	2.810		DDS Insert	0	
Geo-Pilot	6.610		DGR Insert	11.990	
PDC	.530				

MWD RUN 500 - BHA			MWD RUN 500 - MWD		
	Component Length (m)			Sensor Measure Point	
Heavy Weight	57.170		Positive Pulser		Measure Point Distance To Bit (m)
			TM		
			CTN Insert		
Jar	9.950		ACAL Insert		26.160
Heavy Weight	86.050		ALD Insert		25.100
			HCIM Insert		
			PWD Insert		
X-Over Sub	.350		EWR-P4 Insert		16.310
Float Sub	.630		DDS Insert		13.780
MWD	22.95		DGR Insert		0
Geo-Pilot	7.080		DM Sonde		11.420
PDC	.400				8.950

			Positive Pulser		(m)
Heavy Weight		57.170			
			TM		
Jar		9.950	CTN Insert		26.970
					
			ACAL Insert		
Heavy Weight		86.050	ALD Insert		22.910
					
X-Over Sub		.350	HCIM Insert		
Float Sub		.630	PWD Insert		16.540
					
MWD		23.53	EWR-P4 Insert		14.010
					
Geo-Pilot		7.080	DDS Insert		0
					
Stabilizer		.380	DGR Insert		11.650
					
PDC		.250	DM Sonde		9.180