



MWD

EWR Electromagnetic Wave Resistivity
DGR Dual Gamma Ray
ALD Azimuthal Litho-Density
CTN Comp Thermal Neutron
ACAL Acoustic Caliper

Country : Australia		Field : Thylacine		Location : Lat: 39° 14' 14.41" South GDA94 Long: 142° 54' 7.74" East GDA94		Well : THA01		Company : Woodside Energy Ltd		Rig : Maersk Guardian	
Permanent Datum : LAT		Elevation : 0.00 m		LOG LOCATION		Company : Woodside Energy Ltd		Rig : Maersk Guardian		Well : THA01	
Log Measured From : Drill Floor		50.50 m Above Permanent Datum		Latitude : Lat: 39° 14' 14.41" South GDA94 Longitude : Long: 142° 54' 7.74" East GDA94		Field : Thylacine		Country : Australia		DOE Number :	
Drilling Measured From : Drill Floor		MD LOG		UTM Easting = 664,164.9 m UTM Northing = 5,655,161.4 m		Other Services		Directional Drilling			
Depth Logged : 149.80 m To 2,634.15 m		Unit No. : SDSS 40		Job No. : AU-FE-000330657		Elev. KB		DF 50.50 m		GL WD 99.30 m	
Date Logged : 13-Apr-06 To 14-May-06		Plot Type : Final		Plot Date : 29-Aug-06							
Total Depth MD : 2,634.15 m TVD : 2,389.92 m											
Spud Date : 13-Apr-06											
Run No.		Borehole Record (MD)		Run No.		Borehole Record (MD)					
Size		From To		Size		From To					
100		762,000 mm		149.80 m		220.00 m					
200		584,000 mm		220.00 m		638.00 m					
300		445,000 mm		638.00 m		1,173.40 m					
400		445,000 mm		1,173.40 m		1,357.80 m					
500		445,000 mm		1,357.80 m		1,530.20 m					
600		445,000 mm		1,530.20 m		2,240.00 m					
700		311,000 mm		2,240.00 m		2,387.42 m					
800		311,000 mm		2,387.42 m		2,634.15 m					

WELL INFORMATION

MWD Run Number	300	400	500	600	700
Date run completed	23-Apr-06	25-Apr-06	27-Apr-06	30-Apr-06	05-May-06
Rig Bit Number	3	4	5	3RR	6
Bit Size (mm)	445	445	445	445	311
Tool Nominal OD (mm)	241	241	203	241	203
Log Start Depth (MD, m)	638.00	1,173.40	1,357.80	1,530.20	2,240.00
Log End Depth (MD, m)	1,173.40	1,357.80	1,530.20	2,240.00	2,387.40
Drill or Wipe	Drilling	Drilling	Drilling	Drilling	Drilling
Drill/Wipe Start Date and Time	21-Apr-06 05:54	24-Apr-06 02:44	26-Apr-06 12:07	27-Apr-06 12:27	04-May-06 12:31
Drill/Wipe End Date and Time	22-Apr-06 22:11	25-Apr-06 04:23	26-Apr-06 17:39	29-Apr-06 07:55	05-May-06 01:19
Min Inc (deg) @ Depth (MD, m)	6.53 @ 640.810	29.18 @ 1,335.71	29.18 @ 1,364.19	29.68 @ 2,210.26	28.69 @ 2,361.59
Max Inc (deg) @ Depth (MD, m)	31.04 @ 1,074.02	30.09 @ 1,248.01	30.44 @ 1,508.90	31.44 @ 1,880.86	29.28 @ 2,245.78
Bit TFA(in2) / Bit Type	1.977 / Reed DS104DGW	1.841 / Reed DS619S	1.804 / Hughes MX-03	1.574 / DSC104DGW	1.374 / Hughes HC605S
Flow Rate (gpm)	1150	1000	980	900	900
Max AV (mpm) / CV (mpm) @ MWD	39.6 / 129.0	41.4 / 105.9	33.6 / 117.6	39.8 / 90.5	78.5 / 118.5
Fluid Type	Synteq	Synteq	Synteq	Synteq	Synteq
Density (sg) / Viscosity (spl)	1.25 / 110.00	1.25 / 106	1.25 / 100	1.25 / 84	1.25 / 107
Filtrate CL (ppm)	40000	38600	36300	33200	38700
pH / Fluid Loss (mptm)	N/A / 4.5	N/A / 3.2	N/A / 3.6	N/A / 3.6	N/A / 3.4
PV (cp) / YP (pa)	47 / 26	41 / 30	34 / 26	41 / 30	42 / 13
% Solids / % Sand	11.4 / 0.25	12.1 / 0.50	13.2 / 0.50	13.3 / 0.50	14.4 / 0.50
% Oil / Oil:Water Ratio	53 / 61:39	55 / 64:36	58 / 68:32	60 / 71:29	56 / 67:33
Rm @ Measured Temp (degC)	N/A @ N/A	N/A @ N/A	N/A @ N/A	N/A @ N/A	N/A @ N/A
Rmf @ Measured Temp (degC)	N/A @ N/A	N/A @ N/A	N/A @ N/A	N/A @ N/A	N/A @ N/A
Rmc @ Measured Temp (degC)	N/A @ N/A	N/A @ N/A	N/A @ N/A	N/A @ N/A	N/A @ N/A
Max Tool Temp (degC) / Source	76 / EWR-P4D	78 / EWR-P4D	76 / EWR-P4D	84 / EWR-P4D	89 / EWR-P4
Rm @ Max Tool Temp (degC)	N/A @ 76	N/A @ 78	N/A @ 76	N/A @ 84	N/A @ 89
Lead MWD Engineer	M. Lee	M. Lee	M. Lee	M. Lee	M. Lee
Customer Representative	S. Job	S. Job	S. Job	D. Rota	D. Rota

SENSOR INFORMATION

Downhole Processor Information

Tool Type	HCIM	HCIM	HCIM	HCIM	HCIM
Software Version	66.37	66.37	66.37	66.37	68.18
Sub Serial Number	10593967	10593967	10593967	10593967	152862
Insert Serial Number	132317	132317	132317	132317	134502
Logging String Serial Number	DM90085714H1GV	DM90085714H1GV	DM90085714H1GV	DM90085714H1GV	DM90103157HWRG
Date and Time Initialized	20-Apr-06 08:57	23-Apr-06 17:11:29	25-Apr-06 11:30:42	27-Apr-06 05:30:21	03-May-06 22:03
Date and Time Read	23-Apr-06 09:22:08	25-Apr-06 11:15:59	27-Apr-06 02:01:00	30-Apr-06 09:14:49	05-May-06 13:07:06

Directional Sensor Information

Tool Type	DM	DM	DM	DM	DM
Distance From Bit (m)	21.55	21.00	21.00	22.23	14.06
Software Version	3.15	3.15	3.15	3.15	3.15
Sub Serial Number	175042	175042	175042	175042	10718049
Sonde Serial Number	133447	133447	133447	133447	133447
Sensor ID Number	133447	133447	133447	133447	133447
Survey String Serial Number	N/A	N/A	N/A	N/A	N/A
Toolface Offset (deg)	279	256	256	311	N/A

Gamma Ray Sensor Information

Tool Type	DGR	DGR	DGR	DGR	DGR
Distance From Bit (m)	13.98	13.43	13.43	14.71	5.42
Recorded Sample Period (sec)	12	12	12	12	12
Software Version	N/A	N/A	N/A	N/A	N/A
Sub Serial Number	168140	168140	168140	168140	10718409
Insert/Sonde Serial Number	089766	089766	089766	089766	172498

Resistivity Sensor Information

Tool Type	EWR-P4D	EWR-P4D	EWR-P4D	EWR-P4D	EWR-P4
Distance From Bit (m)	16.44	15.89	15.89	17.17	7.78
Recorded Sample Period (sec)	16	16	16	16	14
Software Version	2.00	2.00	2.00	2.00	1.38
Sub Serial Number	147848	147848	147848	147848	37661
Receiver Insert Serial Number	160370	160370	160370	160370	205859
Transmitter Insert Serial Number	107102	107102	107102	107102	151389
Receiver Orientation	Down	Down	Down	Down	Down

Neutron Sensor Information

Tool Type					CTN
Distance From Bit (m)					25.13
Recorded Sample Period (sec)					14
Sub Serial Number					10507513
Insert Serial Number					194156
Source Serial Number					0102NN
Source Factor					
Pin Orientation					Up

Density Sensor Information

Tool Type					ALD
Distance From Bit (m)					19.85
Recorded Sample Period (sec)					14
Software Version					2.13
Sub Serial Number					158552
Insert Serial Number					159498
Sensor ID Number					23007

Source Serial Number					2432GW
Pin Orientation					Up
Stabilizer Blade O.D. (mm)					304.800
DPA Offset					271.00

Caliper Sensor Information					
Tool Type					ACAL
Distance From Bit (m)					23.89
Software Version					2.05
Sub Serial Number					10507513
Insert Serial Number					1

WELL INFORMATION					
MWD Run Number	800				
Date run completed	14-May-06				
Rig Bit Number	7				
Bit Size (mm)	311				
Tool Nominal OD (mm)	203				
Log Start Depth (MD, m)	2,387.40				
Log End Depth (MD, m)	2,634.15				
Drill or Wipe	Drilling				
Drill/Wipe Start Date and Time	12-May-06 07:38				
Drill/Wipe End Date and Time	13-May-06 16:31				
Min Inc (deg) @ Depth (MD, m)	26.55 @ 2,610.35				
Max Inc (deg) @ Depth (MD, m)	28.63 @ 2,419.44				
Bit TFA(in2) / Bit Type	1.977 / Smith MX6397				
Flow Rate (gpm)	911				
Max AV (mpm) / CV (mpm) @ MWD	79.1 / 115.5				
Fluid Type	Synteq				
Density (sg) / Viscosity (spl)	1.24 / 98				
Filtrate CL (ppm)	35700				
pH / Fluid Loss (mptm)	N/A / 4.4				
PV (cp) / YP (pa)	45 / 26				
% Solids / % Sand	13.2 / 0.50				
% Oil / Oil:Water Ratio	58 / 68:32				
Rm @ Measured Temp (degC)	N/A @ N/A				
Rmf @ Measured Temp (degC)	N/A @ N/A				
Rmc @ Measured Temp (degC)	N/A @ N/A				
Max Tool Temp (degC) / Source	94 / EWR-P4				
Rm @ Max Tool Temp (degC)	N/A @ 94				
Lead MWD Engineer	M. Lee				
Customer Representative	S. Job				

SENSOR INFORMATION

Downhole Processor Information					
Tool Type	HCIM				
Software Version	68.18				
Sub Serial Number	152862				
Insert Serial Number	134502				
Logging String Serial Number	DM90103157HWRG				
Date and Time Initialized	11-May-06 23:14				
Date and Time Read	14-May-06 07:05:32				

Directional Sensor Information					
Tool Type	DM				
Distance From Bit (m)	14.05				
Software Version	3.15				
Sub Serial Number	10718049				

Sonde Serial Number	133447				
Sensor ID Number	133447				
Survey String Serial Number	N/A				
Toolface Offset (deg)	N/A				

Gamma Ray Sensor Information

Tool Type	DGR				
Distance From Bit (m)	5.41				
Recorded Sample Period (sec)	12				
Software Version	N/A				
Sub Serial Number	10718409				
Insert/Sonde Serial Number	172498				

Resistivity Sensor Information

Tool Type	EWR-P4				
Distance From Bit (m)	7.77				
Recorded Sample Period (sec)	14				
Software Version	1.38				
Sub Serial Number	37661				
Receiver Insert Serial Number	205859				
Transmitter Insert Serial Number	151389				
Receiver Orientation	Down				

Neutron Sensor Information

Tool Type	CTN				
Distance From Bit (m)	25.12				
Recorded Sample Period (sec)	14				
Sub Serial Number	10507513				
Insert Serial Number	194156				
Source Serial Number	0102NN				
Source Factor					
Pin Orientation	Up				

Density Sensor Information

Tool Type	ALD				
Distance From Bit (m)	19.65				
Recorded Sample Period (sec)	14				
Software Version	2.13				
Sub Serial Number	158552				
Insert Serial Number	159498				
Sensor ID Number	23007				
Source Serial Number	2432GW				
Pin Orientation	Up				
Stabilizer Blade O.D. (mm)	304.800				
DPA Offset	271.00				

Caliper Sensor Information

Tool Type	ACAL				
Distance From Bit (m)	23.88				
Software Version	2.05				
Sub Serial Number	10507513				
Insert Serial Number	1				

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 Plastic Model 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
- SCO2 - Smoothed Stand Off Correction Low Count Rate, g/cc
- SBD2 - Smoothed Bulk Density Compensated Low Count Rate, g/cc
- SNP2 - Smoothed Rapid Sample Near Detector Pe, barns/electron
- TNPL - Smoothed Thermal Neutron Porosity - Limestone Matrix, v/v
- BATC - Smoothed Bi-Modal Acoustic Compressional Slowness, microsec/foot

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

- MW = 1.24 - 1.27 sg
- Mud Salinity = 27,500 - 34,560 ppm Cl
- Matrix Density = 2.71 g/cc
- Fluid Density = 1.00 g/cc
- Formation Salinity = 5,000 ppm Cl

5.) CTN data has been reprocessed using hole size derived from the ACAL (Acoustic Caliper) tool.

6.) Data from 1763.9 to 1775.7 mMDRT bit depth is missing due to slip switch failure.

7.) ROP data between 1777.5 and 1792.5 mMDRT from WITS recieved.

8.) Cored interval from 2387.42 to 2596.04 mMDRT was logged while running in hole during run 800 with pumps on and rotating.

9.) ROP data from 2387.02 to 2596.04 mMDRT was obtained from Geoservices during coring.

10.) Gamma Data was recorded behind casing 2225.3 to 2230.0 mMDRT.

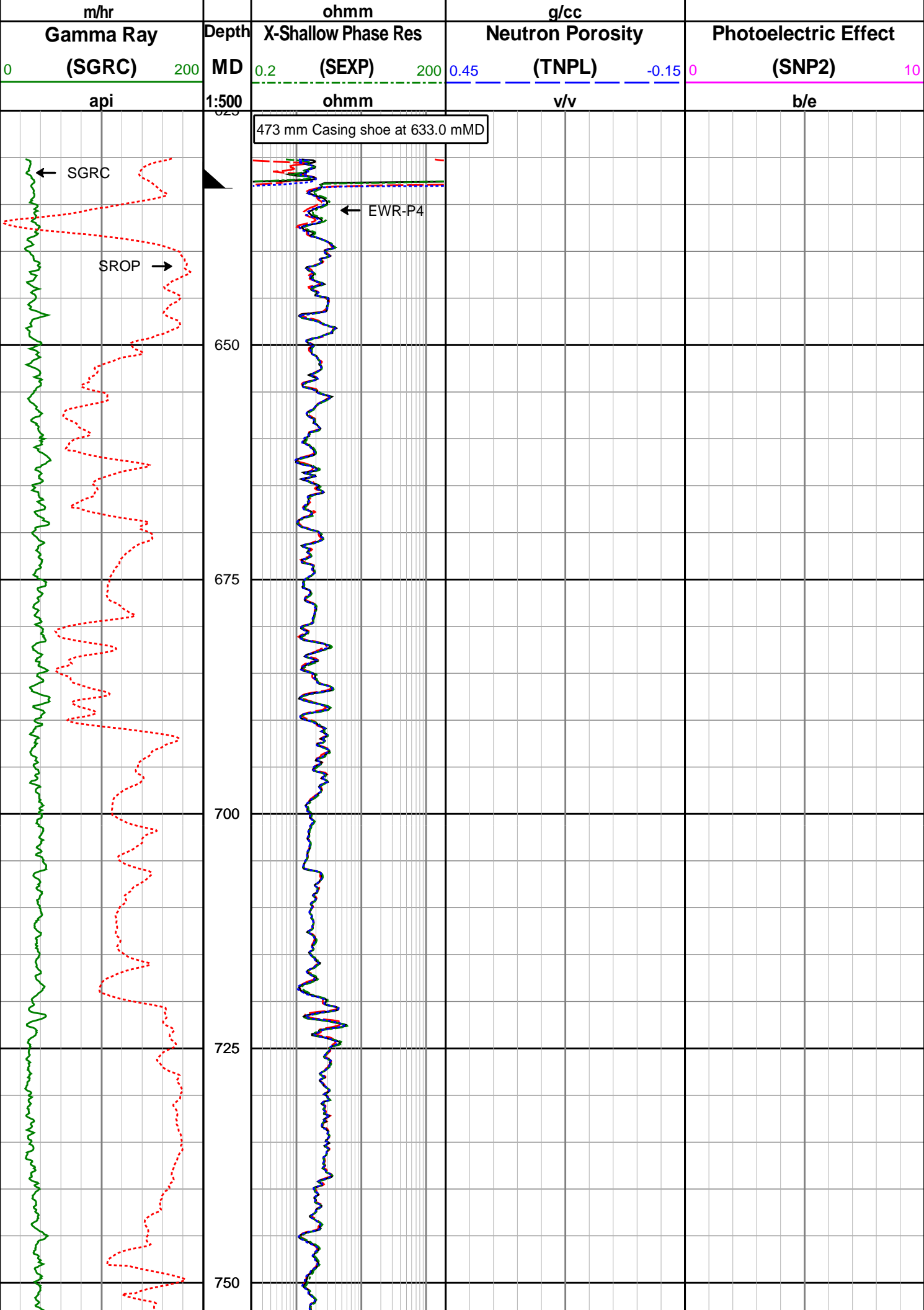
11.) Hole washed out at 340 mm Casing shoe at 2230.0 mMDRT.

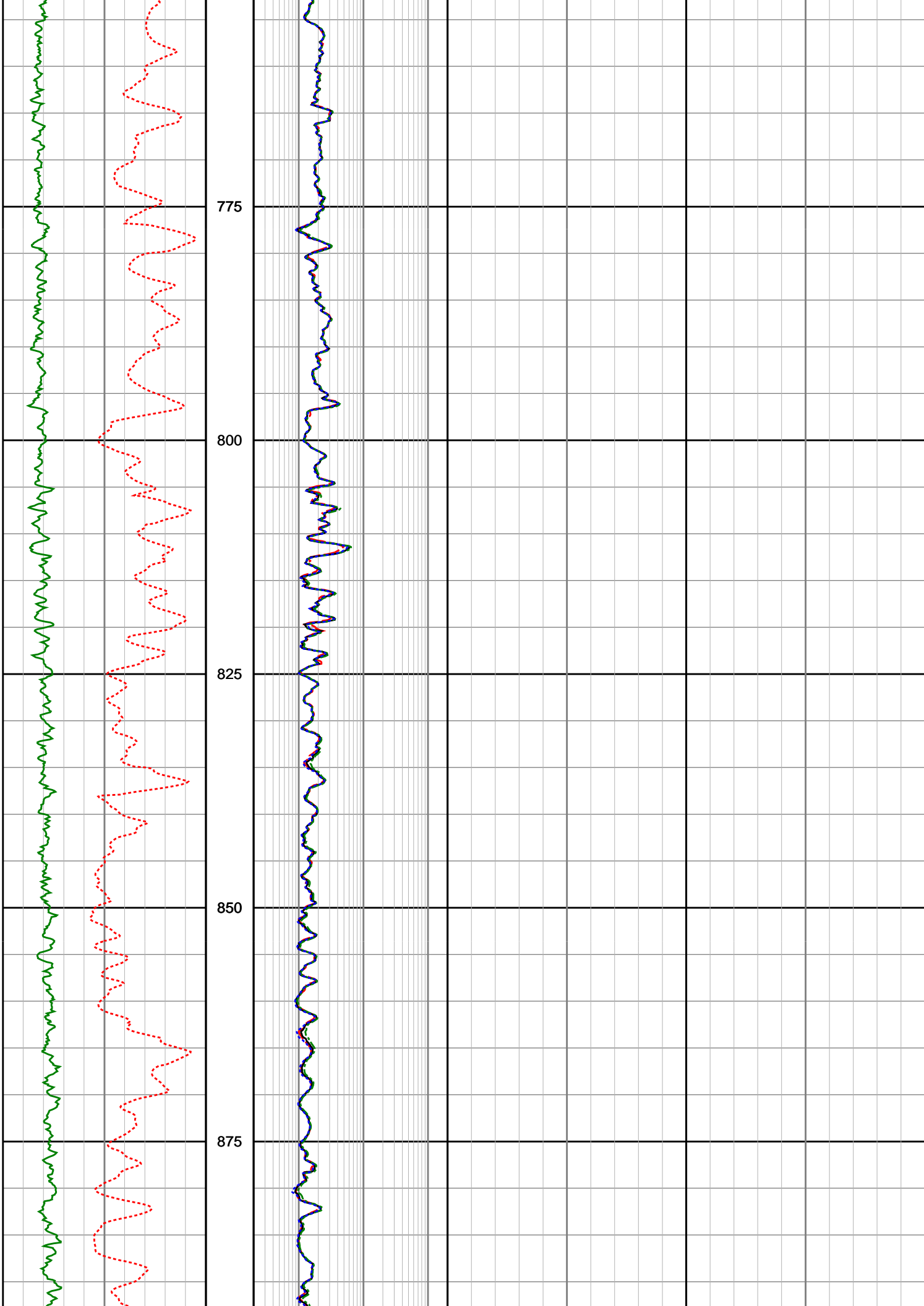
12.) Depth has been corrected from the original recoded depth to incorporate a depth shift due to a tally error.
See the end of well report for further details.

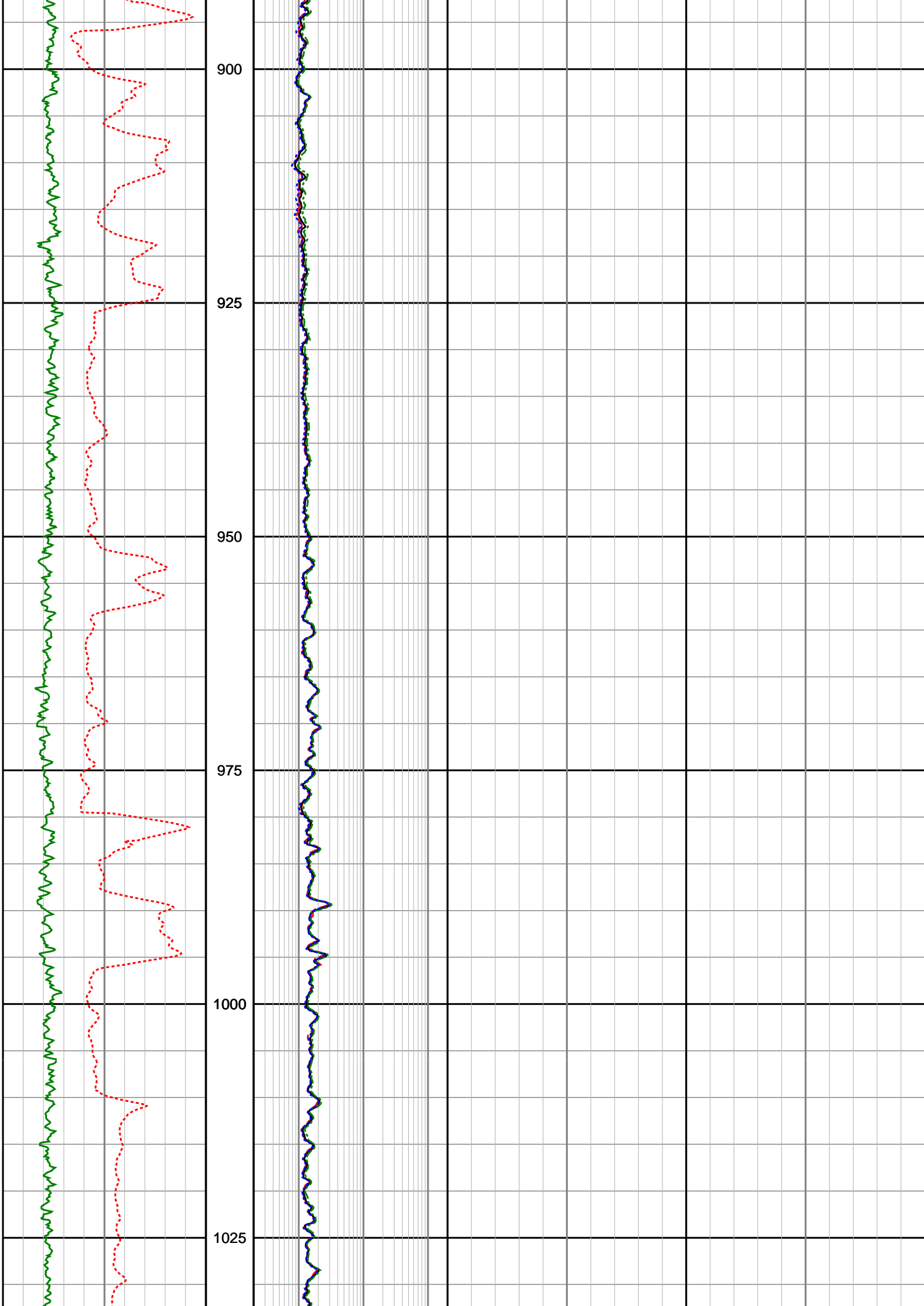
WARRANTY

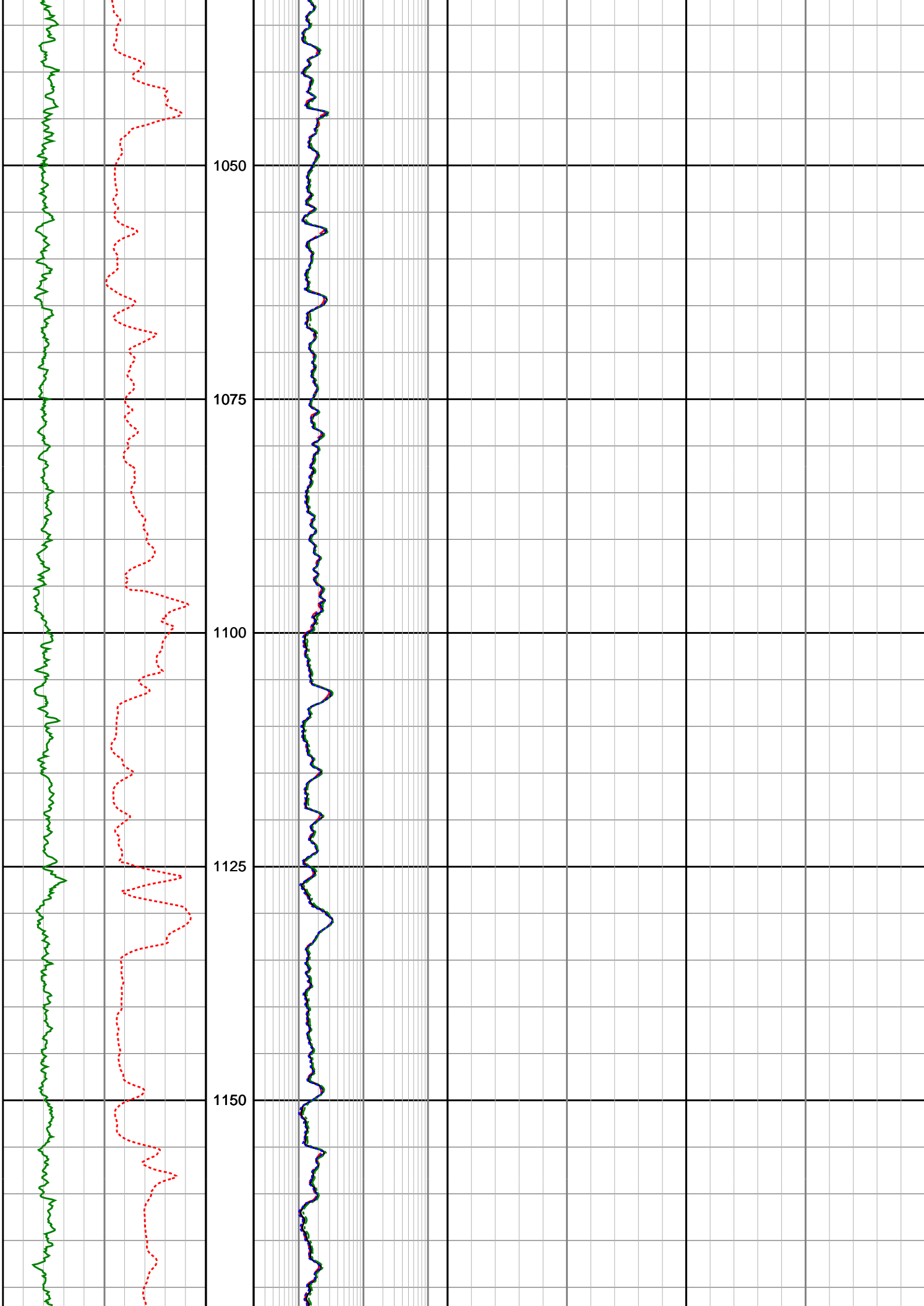
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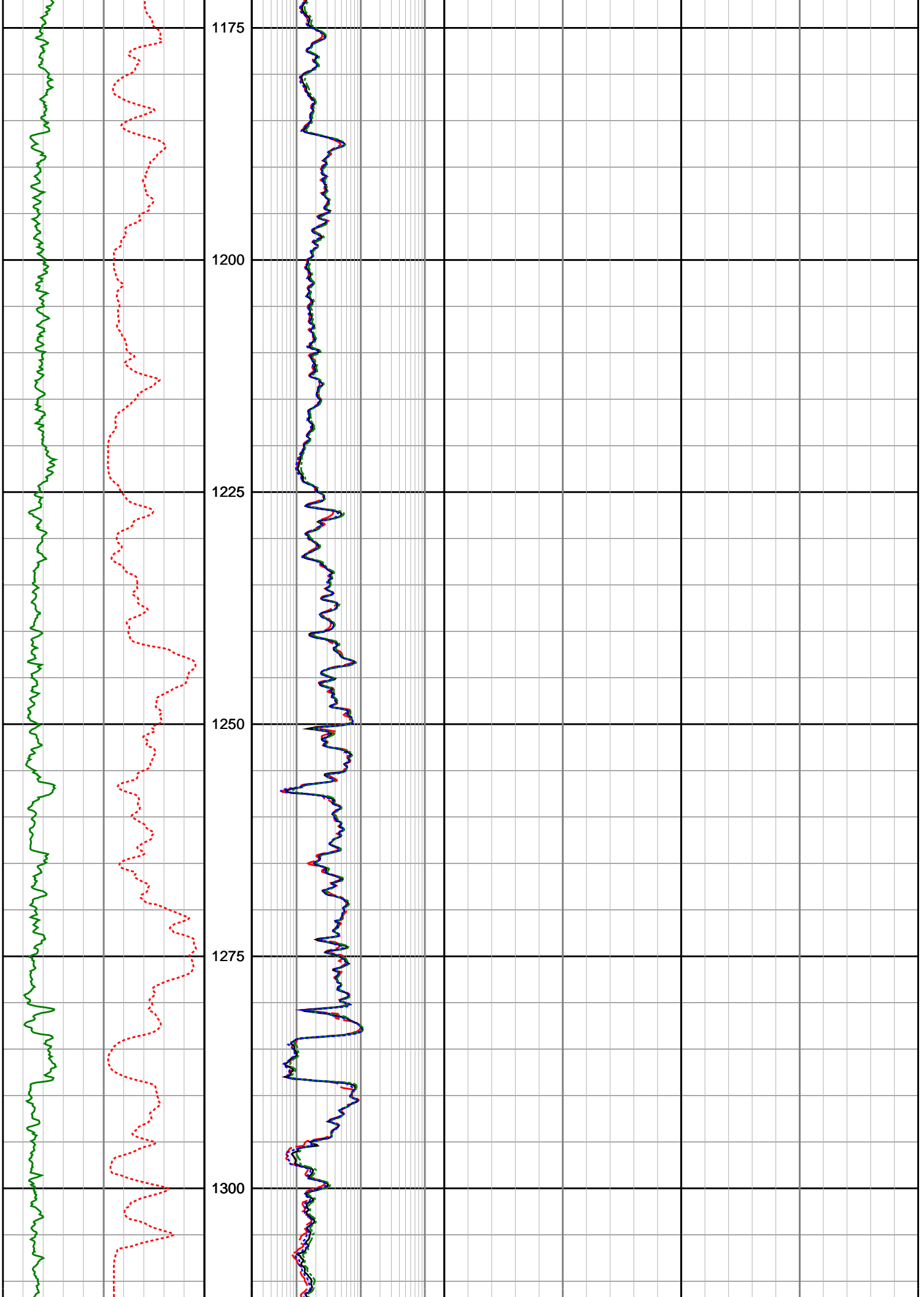
		Deep Phase Res			
		0.2	(SEDP)	200	
		ohmm			
Acoustic Caliper		Medium Phase Res		Standoff Correction	
10	(ACAL)	20	0.2	(SEMP)	200
		ohmm		-0.75	(SCO2)
inches				g/cc	
Rate of Penetration		Shallow Phase Res		Bulk Density	
100	(SROP)	0	0.2	(SESP)	200
				1.95	(SBD2)
				2.95	

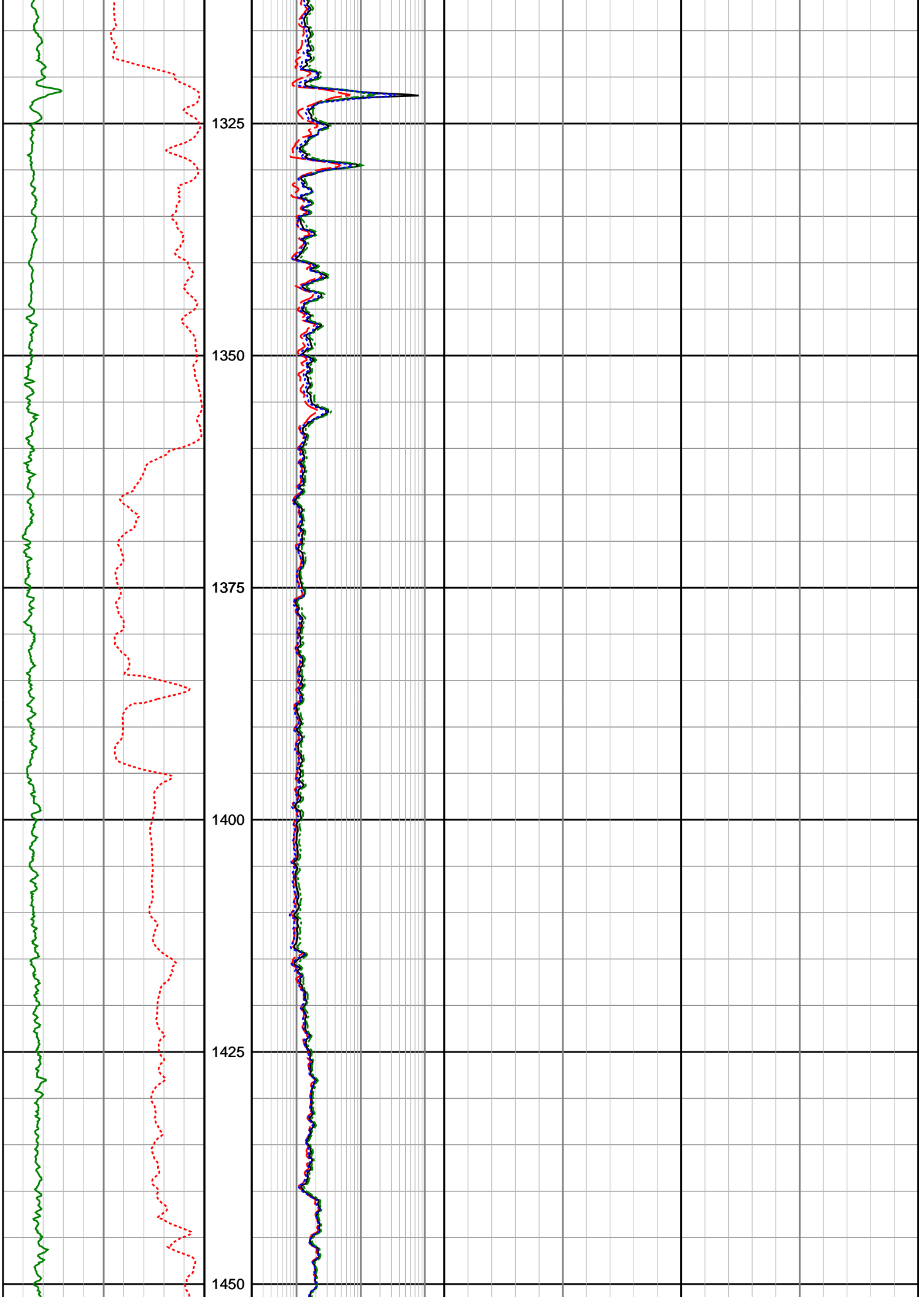


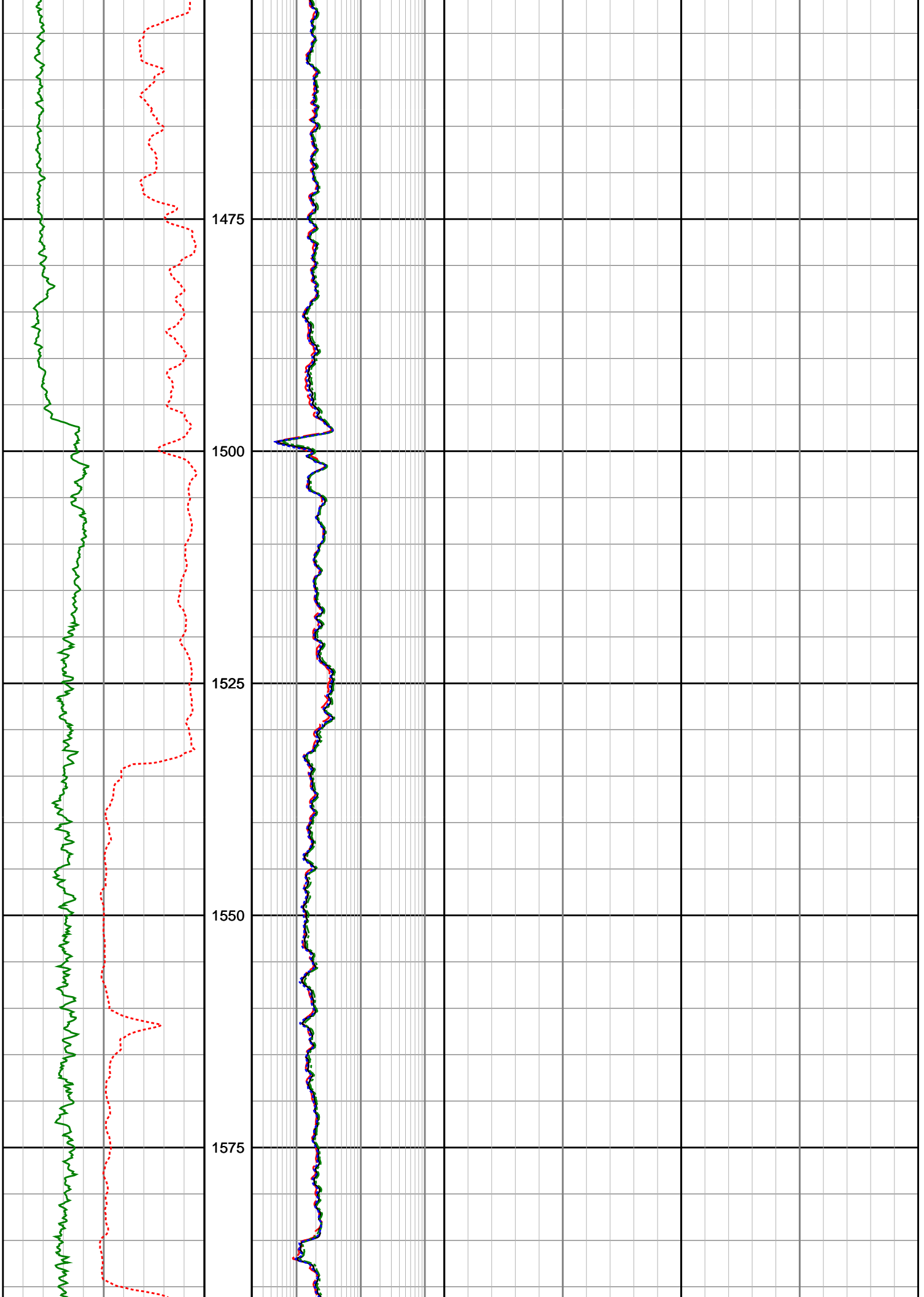


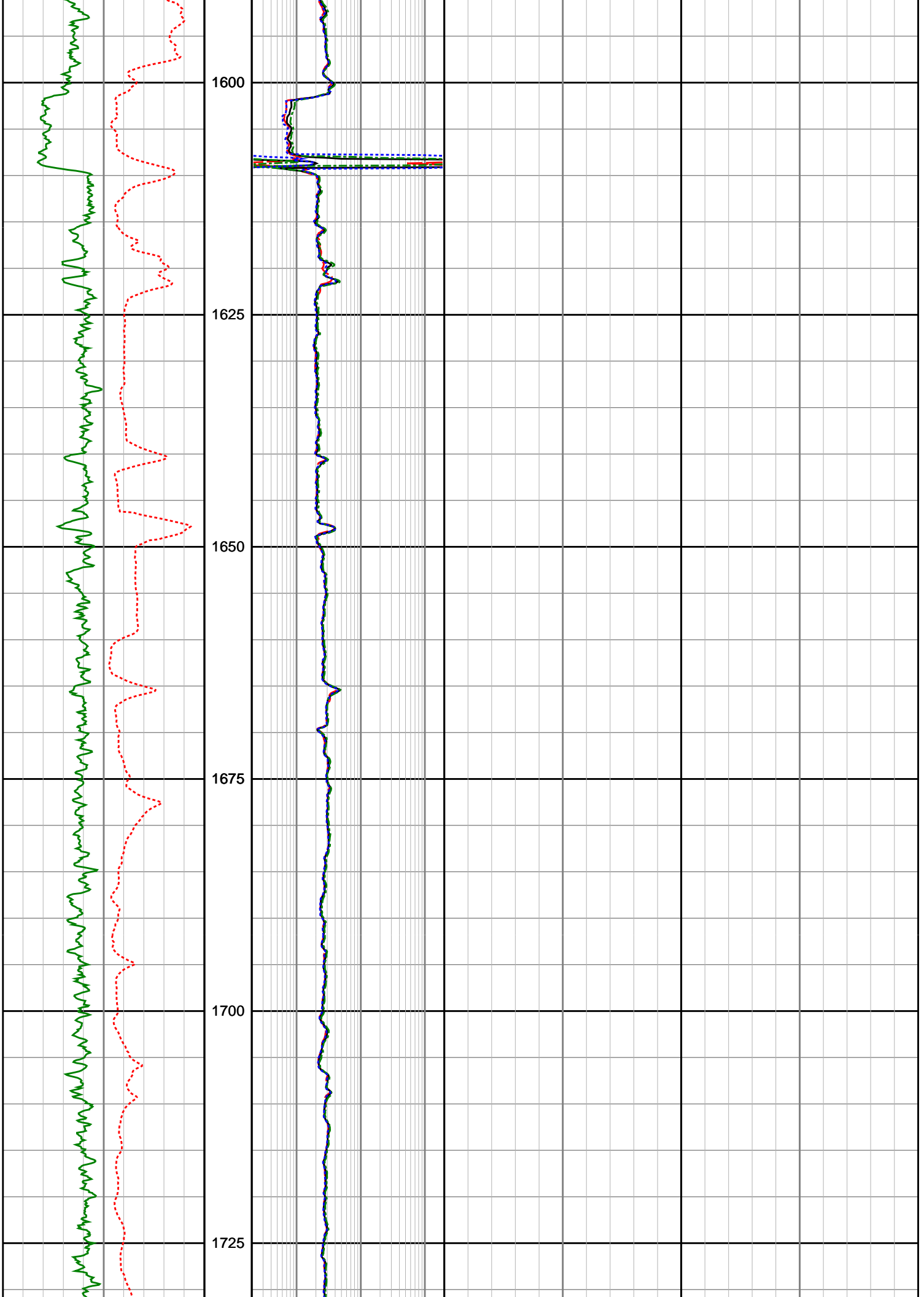


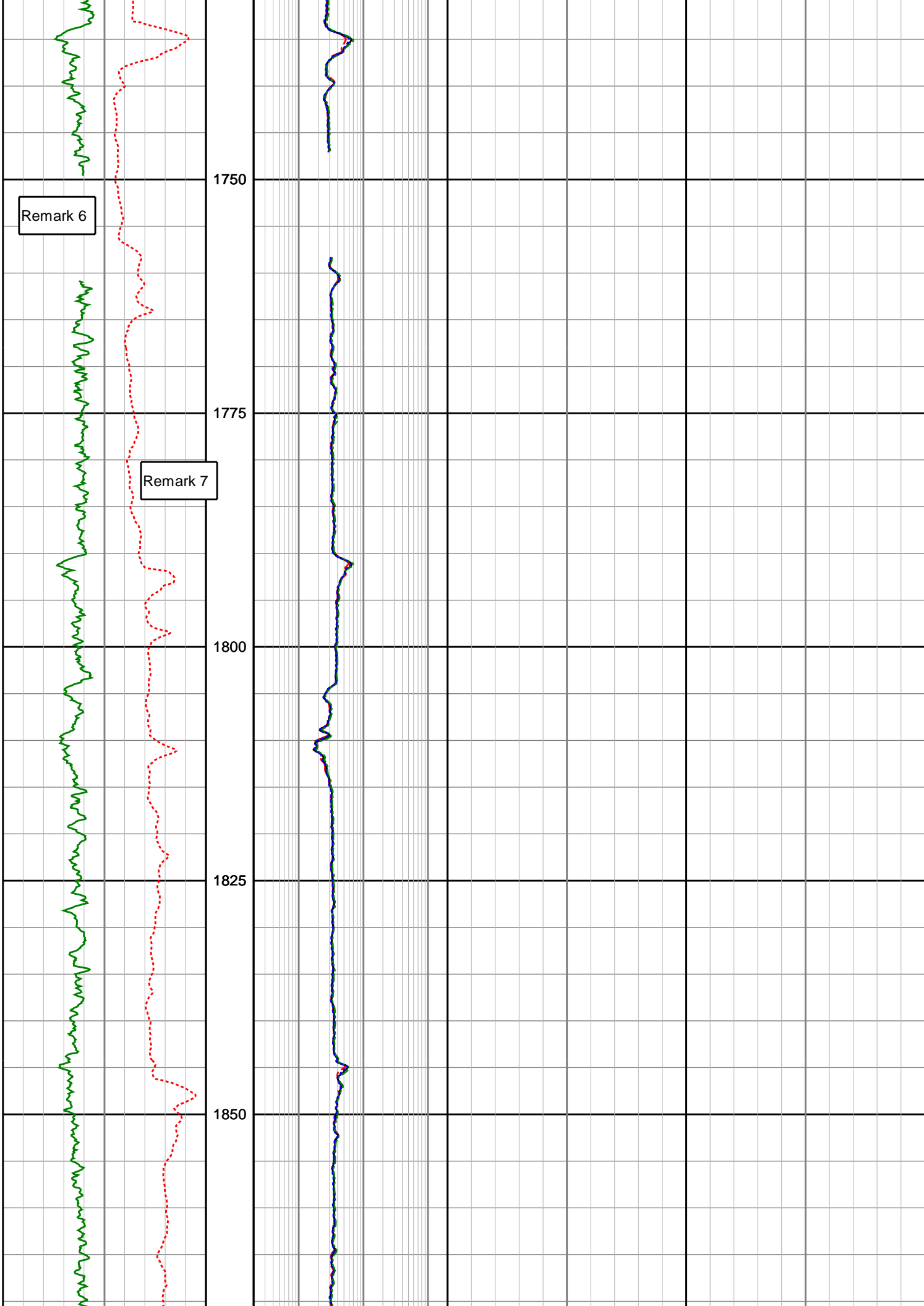


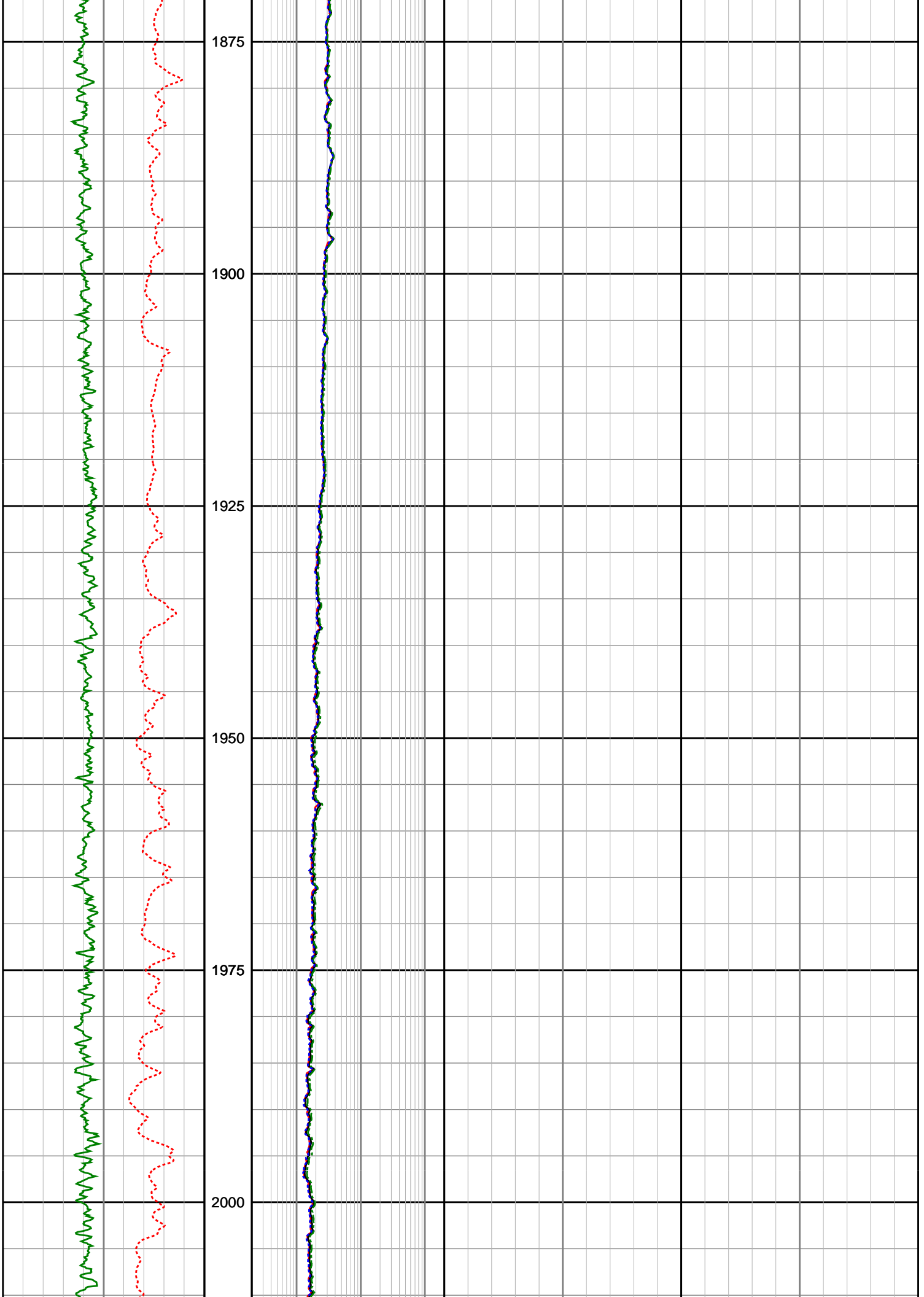


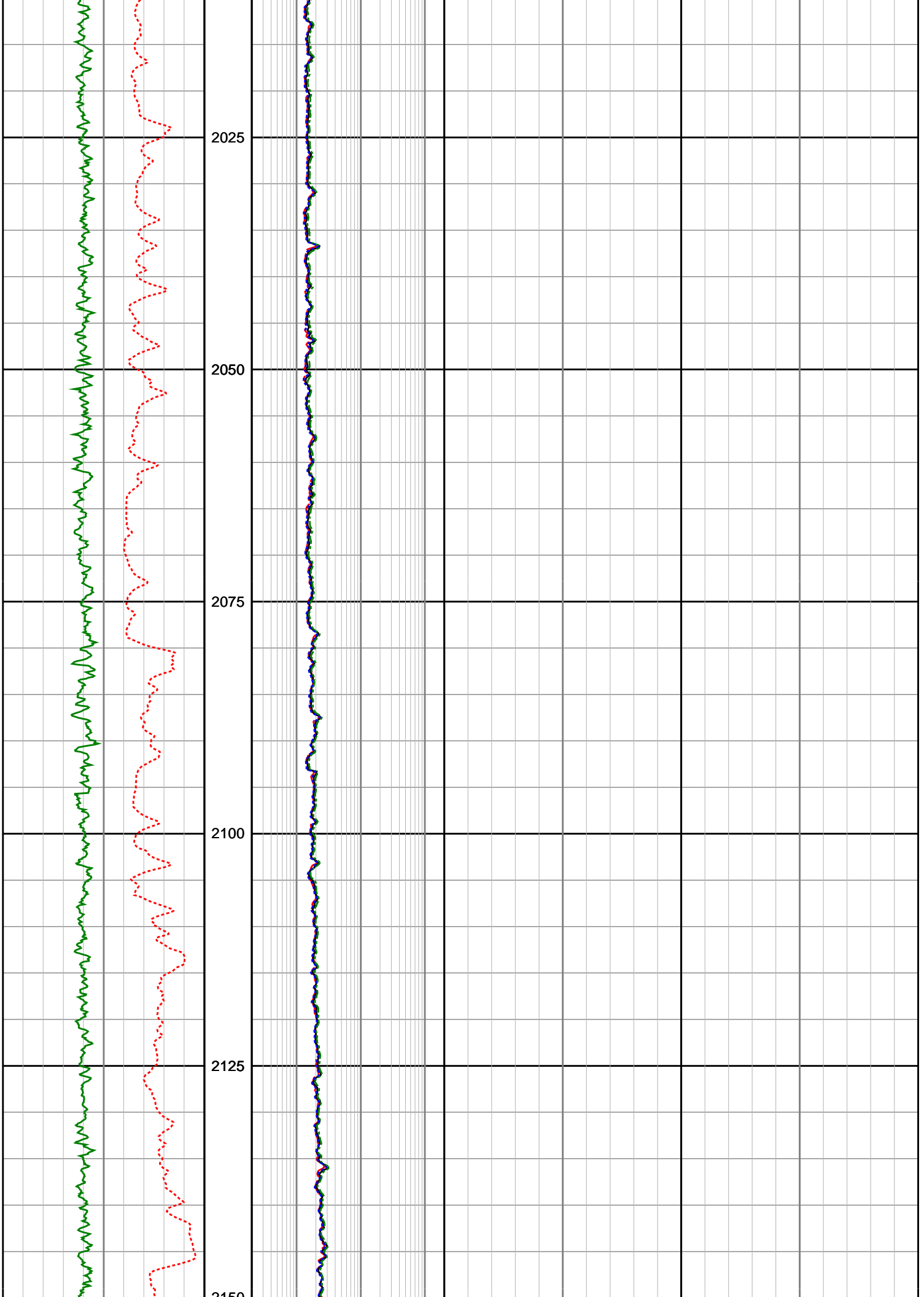


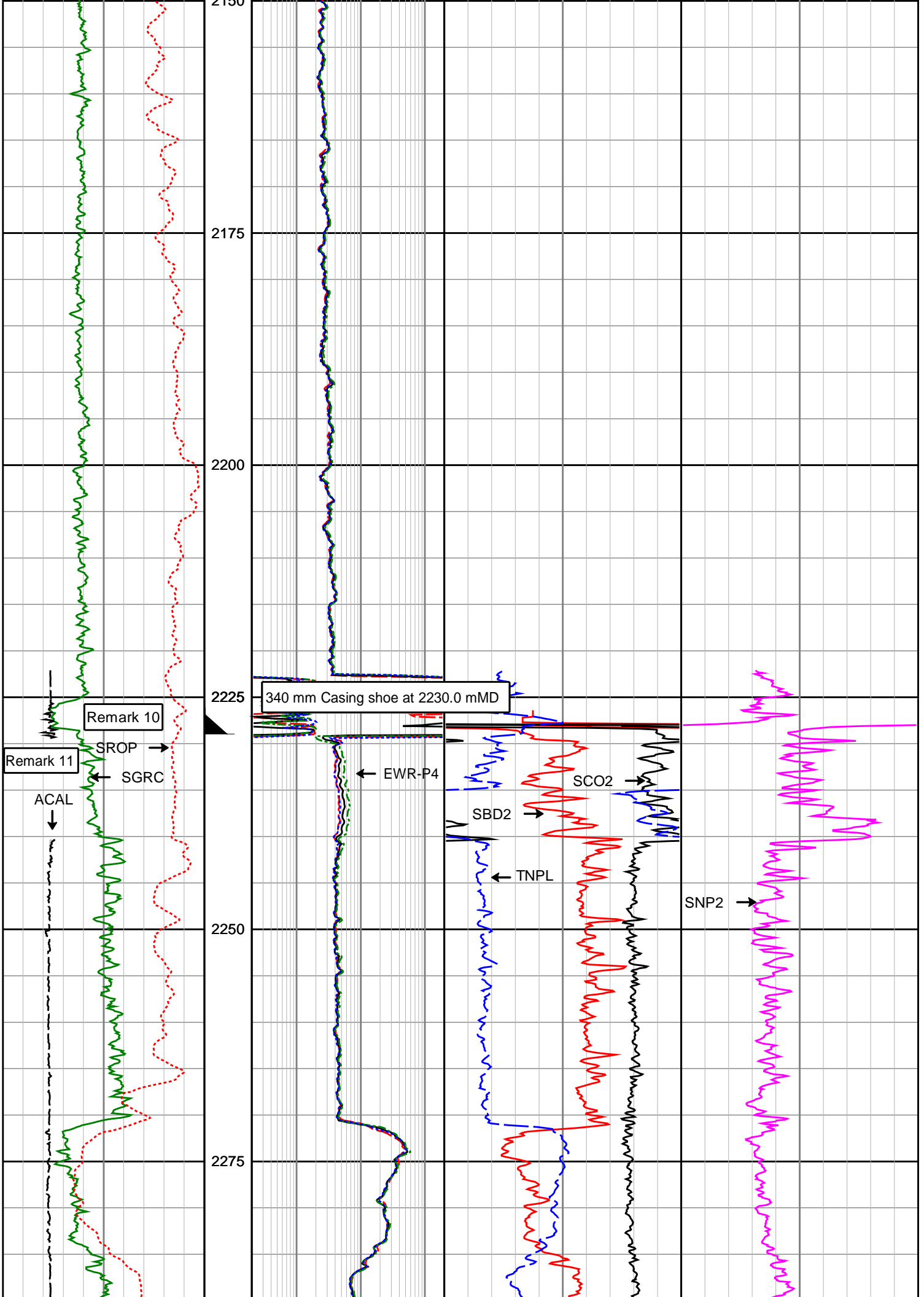


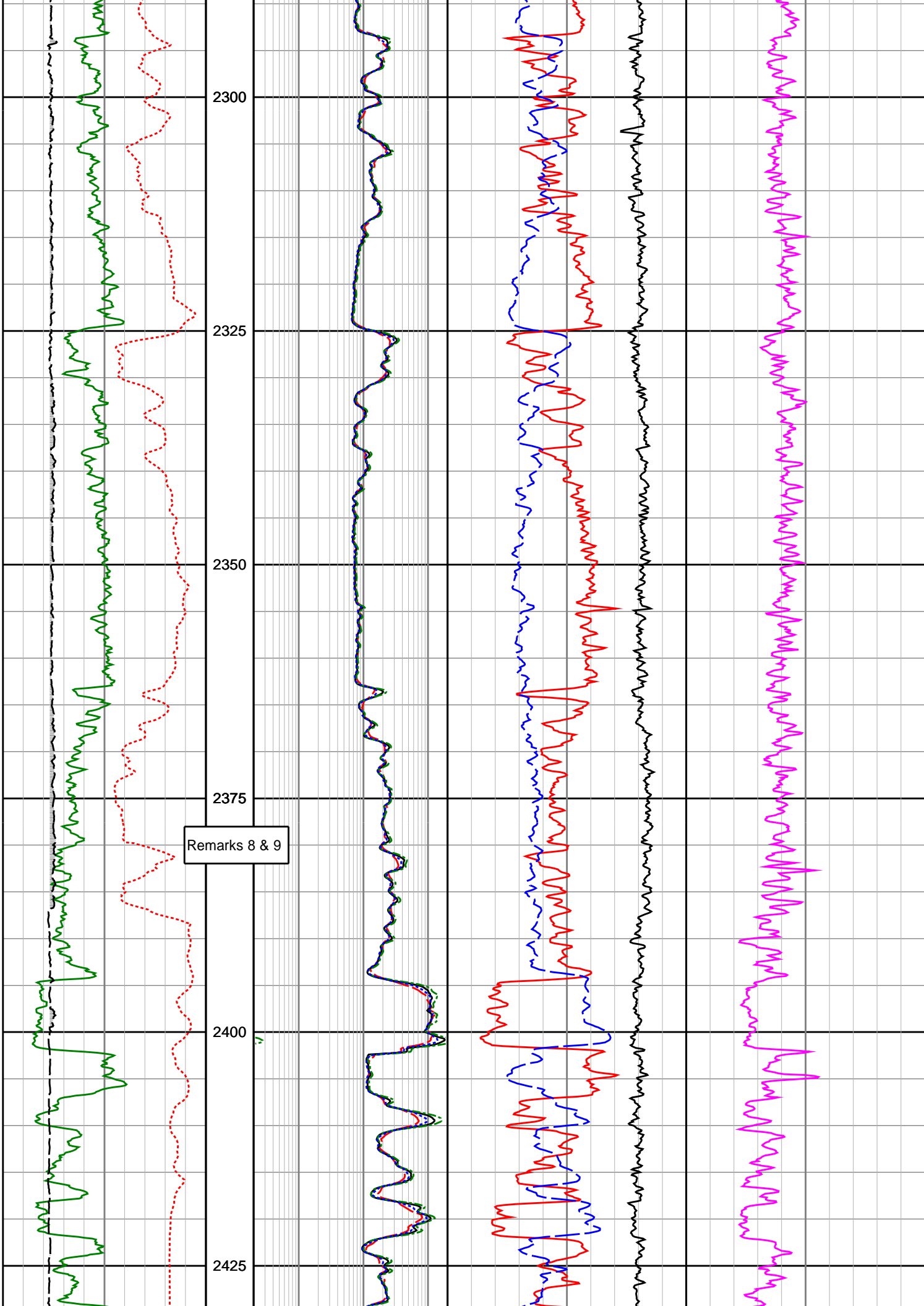


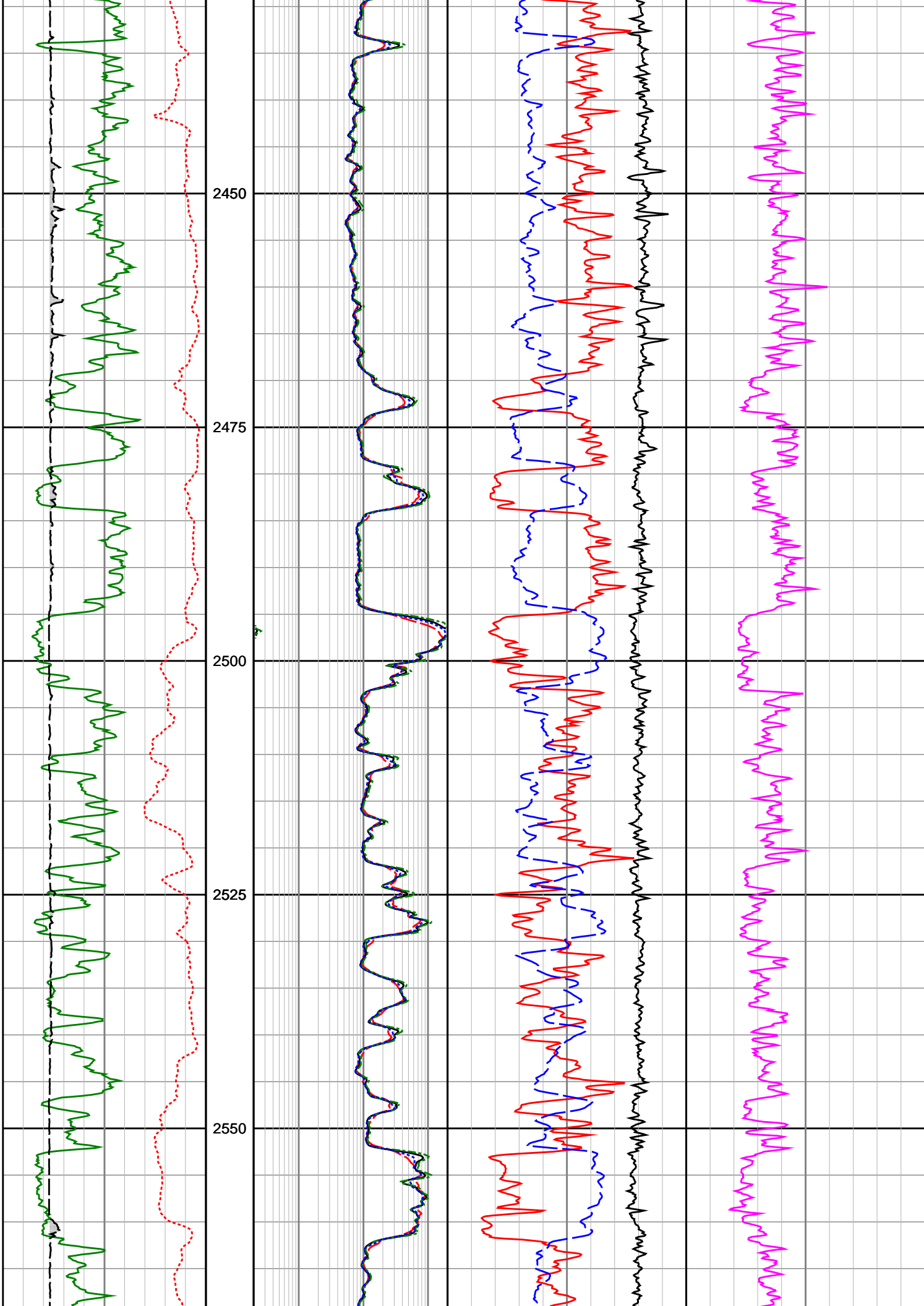


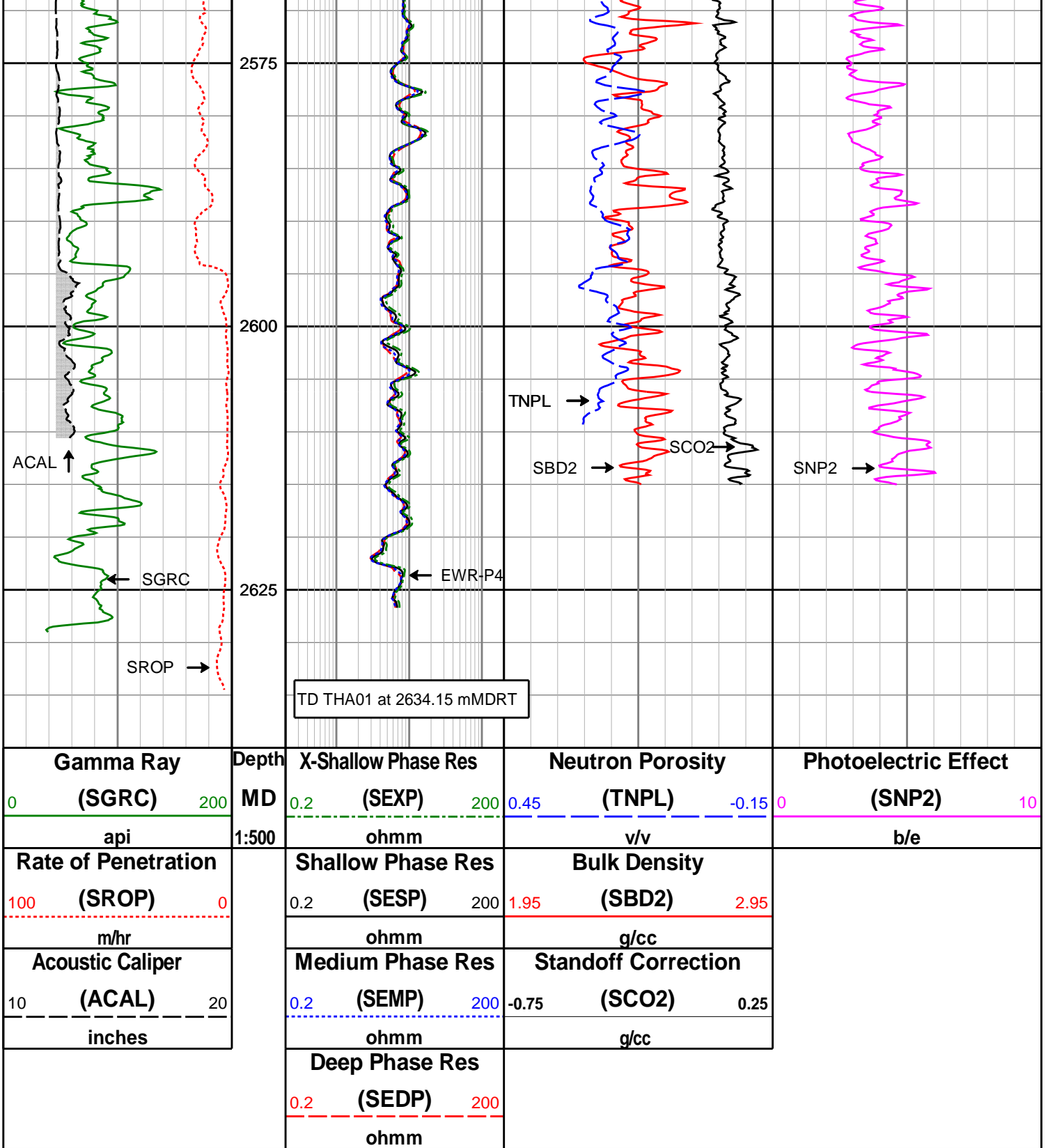












HALLIBURTON

DIRECTIONAL SURVEY REPORT

Woodside Energy Ltd

THA01

Thylacine

Tasmania

Australia

AU-FE-0003930657

Final Survey Projected to TD.RT-LAT=50.5m SAG & SUCOP Corrected

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
163.140	0.28	330.50	163.139	0.347 N	0.196 W	-0.304	0.05
203.270	0.35	355.01	203.269	0.554 N	0.255 W	-0.431	0.11
254.440	0.97	77.94	254.436	0.801 N	0.155 E	-0.132	0.58
283.460	2.33	80.80	283.443	0.946 N	0.977 E	0.590	1.41
312.360	2.85	90.00	312.314	1.040 N	2.276 E	1.776	0.69
341.240	2.50	93.77	341.162	0.999 N	3.622 E	3.053	0.41
399.180	2.95	84.56	399.037	1.057 N	6.367 E	5.609	0.32
428.140	3.24	89.90	427.955	1.129 N	7.928 E	7.048	0.42
457.080	5.47	114.63	456.812	0.556 N	10.000 E	9.191	2.97
485.098	5.50	127.25	484.702	0.814 S	12.282 E	11.806	1.29
514.930	5.48	119.95	514.398	2.390 S	14.655 E	14.577	0.70
543.880	4.83	118.81	543.231	3.668 S	16.920 E	17.145	0.68
576.140	4.59	112.73	575.382	4.821 S	19.301 E	19.777	0.51
601.810	5.28	114.52	600.957	5.708 S	21.323 E	21.981	0.83
620.180	5.93	112.34	619.239	6.420 S	22.970 E	23.773	1.12
640.850	6.53	117.05	639.787	7.360 S	25.004 E	26.007	1.14
669.800	8.25	114.52	668.495	8.971 S	28.360 E	29.713	1.81
698.750	9.30	115.20	697.106	10.829 S	32.367 E	34.114	1.09
727.730	11.92	116.21	725.588	13.148 S	37.171 E	39.425	2.72
756.700	14.85	114.68	753.768	16.020 S	43.230 E	46.103	3.06
785.630	17.15	113.69	781.576	19.282 S	50.506 E	54.058	2.40
814.550	19.89	114.23	808.995	23.015 S	58.898 E	63.223	2.85
843.510	22.77	113.13	835.969	27.239 S	68.546 E	73.737	3.01
872.470	26.16	112.14	862.325	31.848 S	79.616 E	85.718	3.54
901.410	29.68	110.55	887.893	36.769 S	92.239 E	99.263	3.73
930.340	30.11	110.28	912.973	41.798 S	105.752 E	113.682	0.47
958.830	29.97	110.16	937.636	46.728 S	119.135 E	127.944	0.16
988.030	30.18	110.96	962.905	51.867 S	132.836 E	142.577	0.46
1016.930	30.57	112.09	987.838	57.229 S	146.429 E	157.186	0.72
1045.850	30.84	111.75	1012.704	62.742 S	160.129 E	171.946	0.33
1074.810	31.04	111.85	1037.543	68.271 S	173.954 E	186.830	0.21
1103.730	30.29	111.03	1062.419	73.664 S	187.682 E	201.576	0.89
1132.680	29.94	110.39	1087.461	78.801 S	201.268 E	216.101	0.49
1161.870	29.62	110.09	1112.797	83.817 S	214.871 E	230.599	0.36
1190.880	29.73	109.69	1138.002	88.703 S	228.376 E	244.961	0.23
1219.830	30.03	108.77	1163.104	93.452 S	241.994 E	259.380	0.57
1248.800	30.09	108.92	1188.177	98.140 S	255.727 E	273.887	0.10
1278.620	29.97	108.50	1213.994	102.927 S	269.862 E	288.806	0.24
1307.580	29.37	108.59	1239.157	107.486 S	283.453 E	303.135	0.62
1336.500	29.18	108.40	1264.384	111.972 S	296.864 E	317.270	0.22
1364.980	29.18	108.33	1289.249	116.347 S	310.043 E	331.148	0.04
1393.920	29.27	108.34	1314.506	120.792 S	323.455 E	345.270	0.09
1423.280	29.41	108.65	1340.099	125.356 S	337.098 E	359.650	0.21
1452.190	29.98	108.87	1365.213	129.962 S	350.658 E	373.967	0.60
1481.130	30.17	109.42	1390.256	134.718 S	364.359 E	388.467	0.35
1510.100	30.44	109.59	1415.268	139.599 S	378.138 E	403.084	0.29
1539.010	30.67	109.39	1440.163	144.503 S	391.993 E	417.779	0.26
1566.710	30.92	108.40	1463.958	149.095 S	405.410 E	431.957	0.61
1595.260	30.84	110.12	1488.461	153.927 S	419.242 E	446.606	0.93
1624.090	31.10	110.73	1513.181	159.105 S	433.144 E	461.441	0.42
1653.400	31.30	110.75	1538.252	164.482 S	447.344 E	476.624	0.20
1682.730	31.12	110.78	1563.337	169.870 S	461.555 E	491.822	0.18
1711.880	30.99	110.81	1588.309	175.209 S	475.612 E	506.858	0.13
1740.740	30.96	110.74	1613.053	180.477 S	489.500 E	521.711	0.05
1769.690	30.86	110.56	1637.892	185.722 S	503.416 E	536.582	0.14
1797.900	30.74	110.75	1662.123	190.817 S	516.932 E	551.026	0.16
1826.420	31.05	110.35	1686.596	195.957 S	530.644 E	565.670	0.39
1855.220	31.23	110.09	1711.246	201.104 S	544.620 E	580.563	0.23
1884.140	31.44	110.25	1735.948	206.290 S	558.737 E	595.603	0.23
1913.010	31.37	110.49	1760.589	211.527 S	572.840 E	610.646	0.15
1942.300	31.06	110.63	1785.639	216.857 S	587.053 E	625.826	0.33
1971.500	30.95	110.31	1810.666	222.118 S	601.144 E	640.867	0.20
2000.790	30.65	110.04	1835.825	227.290 S	615.222 E	655.864	0.34
2030.040	30.44	109.78	1861.016	232.353 S	629.198 E	670.730	0.25
2058.970	30.44	109.72	1885.959	237.306 S	642.993 E	685.386	0.03
2087.930	30.35	109.35	1910.938	242.205 S	656.802 E	700.037	0.22

2037.860	28.83	108.33	1919.830	212.280	888.032 E	703.837	0.22
2116.860	30.29	108.46	1935.911	246.937 S	670.619 E	714.638	0.47
2145.830	30.30	108.31	1960.925	251.546 S	684.487 E	729.244	0.08
2174.750	30.08	107.65	1985.923	256.036 S	698.319 E	743.776	0.41
2203.640	29.85	107.35	2010.951	260.375 S	712.081 E	758.189	0.29
2215.280	29.68	108.09	2021.055	262.134 S	717.585 E	763.962	1.04
2250.800	29.28	106.47	2051.977	267.327 S	734.275 E	781.418	0.75
2279.770	28.73	104.23	2077.314	271.047 S	747.818 E	795.412	1.26
2308.690	28.80	105.02	2102.665	274.561 S	761.283 E	809.262	0.40
2337.660	28.83	105.23	2128.048	278.205 S	774.763 E	823.169	0.11
2366.610	28.69	105.53	2153.427	281.899 S	788.193 E	837.049	0.21
2424.460	28.63	105.55	2204.189	289.332 S	814.924 E	864.701	0.03
2453.360	28.37	105.46	2229.587	293.018 S	828.212 E	878.444	0.27
2482.040	28.21	105.80	2254.842	296.680 S	841.302 E	891.993	0.24
2511.000	27.83	105.50	2280.407	300.351 S	854.402 E	905.554	0.42
2539.990	27.63	105.58	2306.068	303.965 S	867.398 E	918.998	0.21
2568.880	27.38	105.20	2331.692	307.506 S	880.262 E	932.293	0.32
2597.760	27.04	106.24	2357.376	311.083 S	892.973 E	945.457	0.61
2615.500	26.55	106.25	2373.211	313.320 S	900.651 E	953.434	0.83
2634.150	26.22	106.67	2389.919	315.668 S	908.599 E	961.705	0.61

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 110.23 DEGREES (GRID)
A TOTAL CORRECTION OF 12.31 DEG FROM MAGNETIC NORTH TO GRID NORTH HAS BEEN APPLIED**

**HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD.
HORIZONTAL DISPLACEMENT(CLOSURE) AT 2634.150 METRES
IS 961.873 METRES ALONG 109.16 DEGREES (GRID)**

MWD RUN 200 - BHA













MWD RUN 200 - MWD
















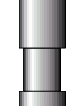


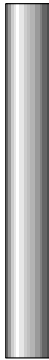
	Component Length (m)	Cumulative Length (m)		Sensor Measure Point Distance To Bit (m)
		156.30		
HWDP	58.140			
Sub	1.380	98.16		
Drill Collar	18.220	96.78	Positive Pulser	
Jar	9.680	78.56		
Drill Collar	26.830	68.88		
Sub	1.360	42.05		

			40.69	TM		
Drill Collar		9.530				
		2.870	31.16			
			28.29	DM		
Drill Collar		8.920				
			19.37			
MWD		9.540				
			9.83			15.860
Sub		.750				
			9.08			
Motor		8.540				
			0.54			
Bit		.540				

MWD RUN 300 - BHA











MWD RUN 300 - MWD

















		Component Length (m)	Cumulative Length (m)			Sensor Measure Point Distance To Bit (m)
			258.94	Positive Pulser		
HWDP		145.070				
			113.87			
Sub		1.380		TM		
			112.49			
Drill Collar		18.660				
			93.83			
Jar		9.680		DM		
			84.15			
Drill Collar		53.570				21.550

		30.58			
Sub		1.360	30.58		
			29.22		
Drill Collar		4.260			
			24.96		
MWD		12.140			
			12.82		
Sub		.840	12.82		
			11.98		
Stabilizer		2.470	11.98		
			9.51		
Motor		8.550			
			0.96		
Sub		.410	0.96		
Bit		.550	0.55		
					
					16.440
					13.980

MWD RUN 400 - BHA



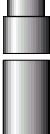

MWD RUN 400 - MWD











		Component Length (m)	Cumulative Length (m)		Sensor Measure Point Distance To Bit (m)
			258.67		
HWDP		145.350			
			113.32		
Sub		1.380	111.94		
					
Drill Collar		18.660			
			93.28		
Jar		9.680			
					
					

Drill Collar		83.60	DM		21.000
Sub		30.03	HCIM		
Drill Collar		28.67	EWR-P4D		
MWD		24.41	DGR		
Sub		12.140			15.890
Stabilizer		12.27			
Motor		11.43			
Bit		8.96			
		8.540			13.430
		0.420			

MWD RUN 500 - BHA





MWD RUN 500 - MWD

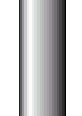








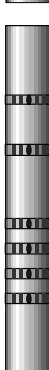














		Component Length (m)	Cumulative Length (m)		Sensor Measure Point Distance To Bit (m)
HWDP			258.67		
Sub		145.350		Positive Pulser	
Drill Collar		113.32		TM	
Jar		111.94			
		18.660			
		93.28			
		9.680			

		0.000			
					
		83.60	DM		21.000
Drill Collar		53.570			
		30.03			
Sub		1.360			
		28.67	HCIM		
Drill Collar		4.260			
		24.41			
MWD		12.140	EWR-P4D		15.890
		12.27			
Sub		.840			
		11.43			
Stabilizer		2.470			
		8.96			
Motor		8.540	DGR		13.430
		0.42			
Bit					

MWD RUN 600 - BHA











MWD RUN 600 - MWD

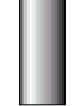














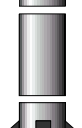







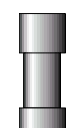



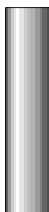

		Component Length (m)	Cumulative Length (m)		Sensor Measure Point Distance To Bit (m)
			259.67		
HWDP		145.070		Positive Pulser	
					
Sub		1.380	114.60		
			113.22		
Drill Collar		18.660		TM	
			94.56		

Jar		9.680				
			84.88	DM		22.230
Drill Collar		53.570				
Sub		1.360	31.31			
			29.95	HCIM		
Drill Collar		4.260				
MWD			25.69			
		12.140		EWR-P4D		17.170
Sub		.840	13.55			
Stabilizer		2.470	12.71			
			10.24			
Motor		9.690		DGR		14.710
Bit		.550	0.55			

MWD RUN 700 - BHA








MWD RUN 700 - MWD




















		Component Length (m)	Cumulative Length (m)			Sensor Measure Point Distance To Bit (m)
			269.89			
HWDP		145.350		Positive Pulser		
			124.54			
Sub		1.380	123.16	TM		
						
Drill Collar		18.660		CTN		

					25.130
		104.50			
Jar		9.630			23.890
					
		94.87			
Drill Collar		53.570			
					
		41.30			
Drill Collar		8.580			
		32.72			
Stabilizer		2.500			
		30.22			
MWD		25.900			10.280
		4.32			
Sub		1.220			7.780
		3.10			
Stabilizer		1.880			
		1.22			
Sub		.880			
		0.34			5.420
Bit					

MWD RUN 800 - BHA

MWD RUN 800 - MWD

		Component Length (m)	Cumulative Length (m)		Sensor Measure Point Distance To Bit (m)
			269.88		
HWDP		145.350			
			124.53		
Sub		1.380			
			123.15		

Drill Collar		18.660		CTN		25.120
			104.49			
Jar		9.630		ACAL		23.880
						
Drill Collar		53.570	94.86	ASLD		
Drill Collar		8.580	41.29	PM		
Stabilizer		2.500	32.71			
			30.21	PWD		10.270
MWD		25.900				
Sub		1.220	4.31	EWR-P4		7.770
Stabilizer		1.880	3.09			
Sub		.880	1.21	DGR		5.410
Bit		.330	0.33			