



DDS Drilling Dynamics Sensor

Country : Australia		Field : Basker		Location : Lat: 38° 17' 58.51" South Long: 148° 42' 24.72" East		Well : Basker-2		Company : Anzon Australia Ltd		Rig : Ocean Patriot	
Permanent Datum : Mean Sea Level		Log Measured From : Drill Floor		Drilling Measured From : Drill Floor		Elevation : 0.00 m		Unit No. : SDL-197		Job No. : AUFE-000370493	
Depth Logged : 1,006.00 m		Date Logged : 15-Aug-05		Total Depth MD : 3,414.00 m		Spud Date : 12-Aug-05		Plot Type : Final		Plot Date : 19-Sep-05	
Run No.		Size		From		To		Run No.		Size	
3		311.000 mm		1,006.00 m		2,497.00 m		4		311.000 mm	
4		311.000 mm		2,497.00 m		2,741.00 m		5		311.000 mm	
5		311.000 mm		2,741.00 m		2,956.00 m					

Downhole Processor Information

Tool Type	HCIM	HCIM	HCIM		
Software Version	68.18	68.18	68.18		
Sub Serial Number	198840	91820	91820		
Insert Serial Number	160772	93281	93281		
Logging String Serial Number	DM90081129H1RGV8	DM90081130H1RGV8	DM90081130H1RGV8		
Date and Time Initialized	19-Aug-05 15:49	31-Aug-05 02:48	03-Sep-05 19:32		
Date and Time Read	25-Aug-05 14:38	03-Sep-05 03:46	06-Sep-05 07:41		

Directional Sensor Information

Tool Type	DM	DM	DM		
Distance From Bit (m)	20.89	24.18	18.39		
Software Version	3.15	3.15	3.15		
Sub Serial Number	10562337	10562337	10562337		
Sonde Serial Number	149865	185534	185534		
Sensor ID Number	N/A	N/A	N/A		
Survey String Serial Number	DM90081131K8	DM90081132K8	DM90081132K8		
Toolface Offset (deg)	296.0	115.0	20.7		

Gamma Ray Sensor Information

Tool Type	DGR	DGR	DGR		
Distance From Bit (m)	13.42	16.84	11.05		
Recorded Sample Period (sec)	12	12	12		
Software Version	N/A	N/A	N/A		
Sub Serial Number	210655	10505993	10505993		
Insert/Sonde Serial Number	172496	172498	172498		

Drillstring Dynamics Sensor Information

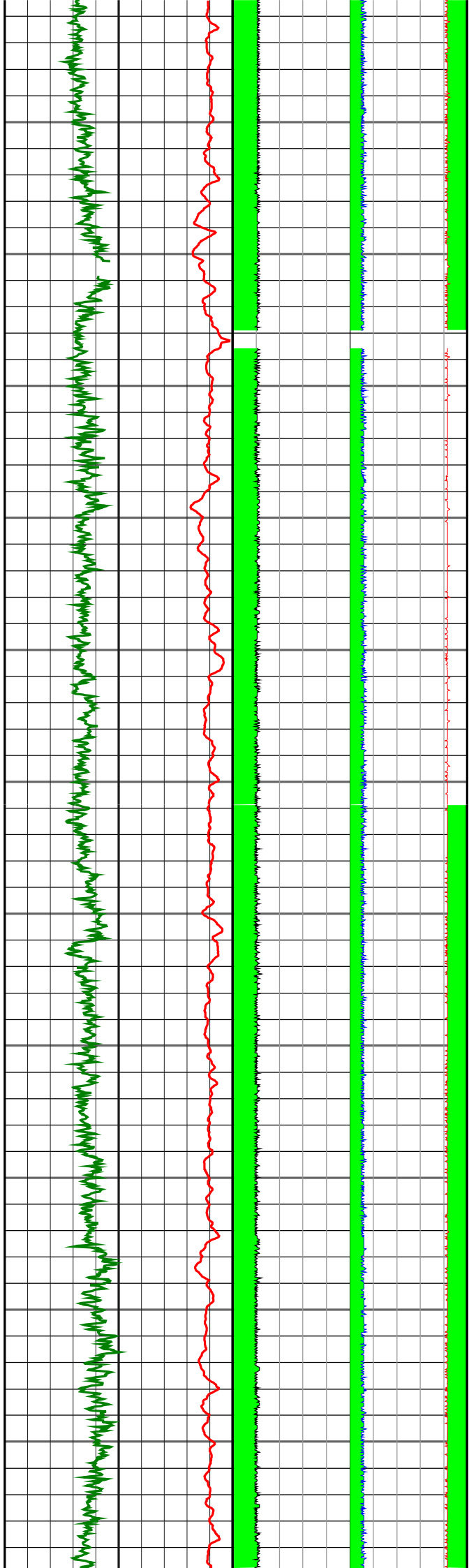
Tool Type	DDS	DDS	DDS		
Distance From Bit (m)	0	0	0		
Recorded Sample Period (sec)	12	12	12		
Software Version	0.37	0.37	0.37		
Sub Serial Number	210655	10505993	10505993		
Insert Serial Number	172496	172498	172498		
Sensor ID Number	924	741	741		

REMARKS

1. All depths are bit depths and referenced to the drillers pipe tally
2. AV/CV is calculated at the MWD collar using the Power Law for water based muds.
3. Curve mnemonics are:
 SROP - Smoothed Rate of Penetration, m/hr
 SGRC - Smoothed Gamma Ray Combined, api
 SAAX - Smoothed Average X-Axis Accelerometer, g's
 SAAY - Smoothed Average Y-Axis Accelerometer, g's
 SAAZ - Smoothed Average Z-Axis Accelerometer, g's
 SPAX - Smoothed Peak X-Axis Accelerometer, g's
 SPAY - Smoothed Peak Y-Axis Accelerometer, g's
 SPAZ - Smoothed Peak Z-Axis Accelerometer, g's
 WOB - Weight on Bit (Geoservices), klb
 RPM - Bit Revolutions Per Minute (Geoservices), rpm
 TORQ - Surface Torque (Geoservices), ft-klbs
4. Gap in data from 1289.50 to 1292.50 mMDRT due to depth sensor malfunction.

WARRANTY

HALLIBURTON ENERGY SERVICES (HES) WILL USE ITS BEST EFFORTS TO FURNISH CUSTOMERS WITH ACCURATE INFORMATION AND INTERPRETATIONS THAT ARE PART OF, AND INCIDENT TO, THE SERVICES PROVIDED. HOWEVER, HES CANNOT AND DOES NOT WARRANT THE ACCURACY OR CORRECTNESS OF SUCH INFORMATION AND INTERPRETATIONS. UNDER NO CIRCUMSTANCES SHOULD ANY SUCH INFORMATION OR INTERPRETATION BE RELIED UPON AS THE SOLE BASIS FOR ANY DRILLING, COMPLETION, PRODUCTION, OR FINANCIAL DECISION OR ANY PROCEDURE INVOLVING ANY RISK TO THE SAFETY OF ANY DRILLING VENTURE, DRILLING RIG OR ITS CREW OR ANY OTHER THIRD PARTY. THE CUSTOMER HAS FULL RESPONSIBILITY FOR ALL DRILLING, COMPLETION AND PRODUCTION OPERATION. HES MAKES NO REPRESENTATIONS



1250

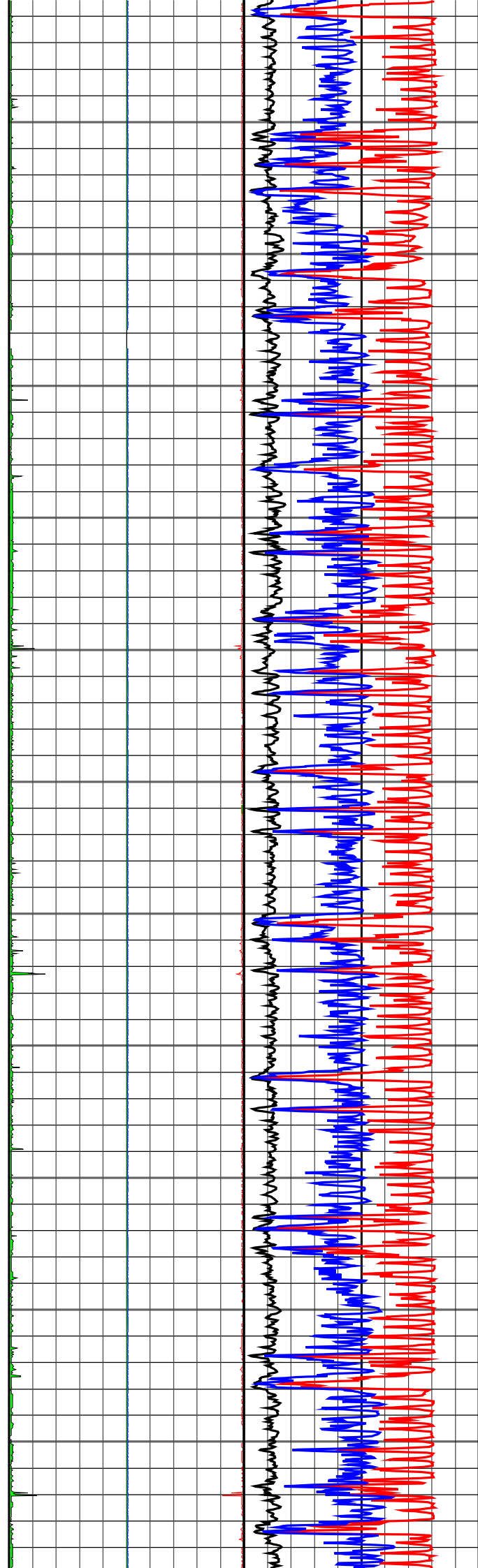
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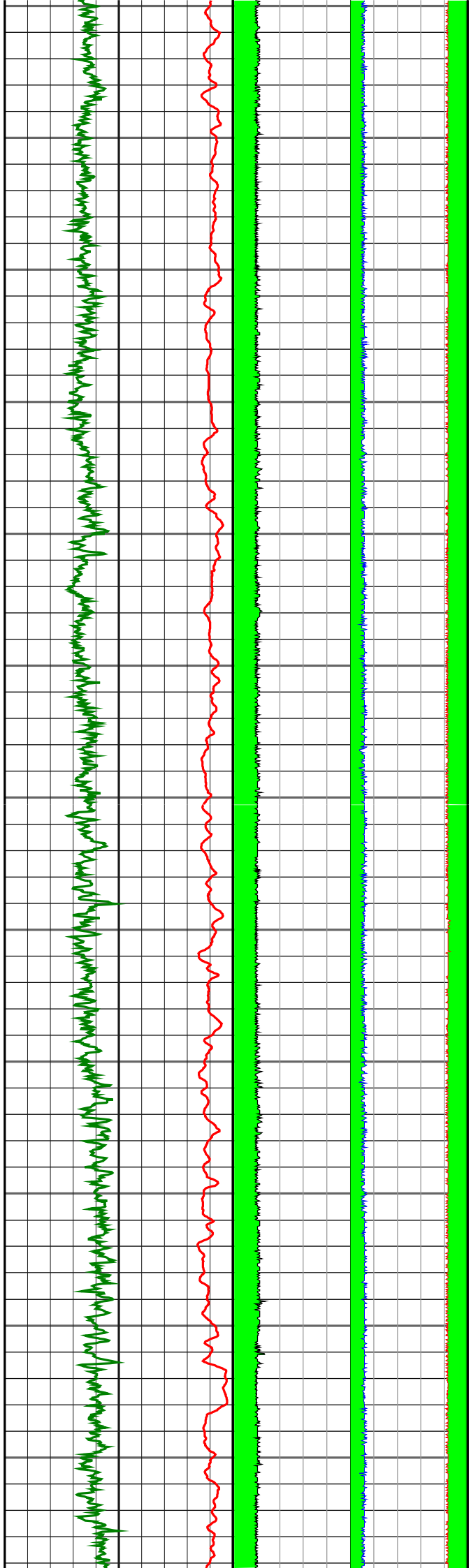
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1400

1450

1500





1550

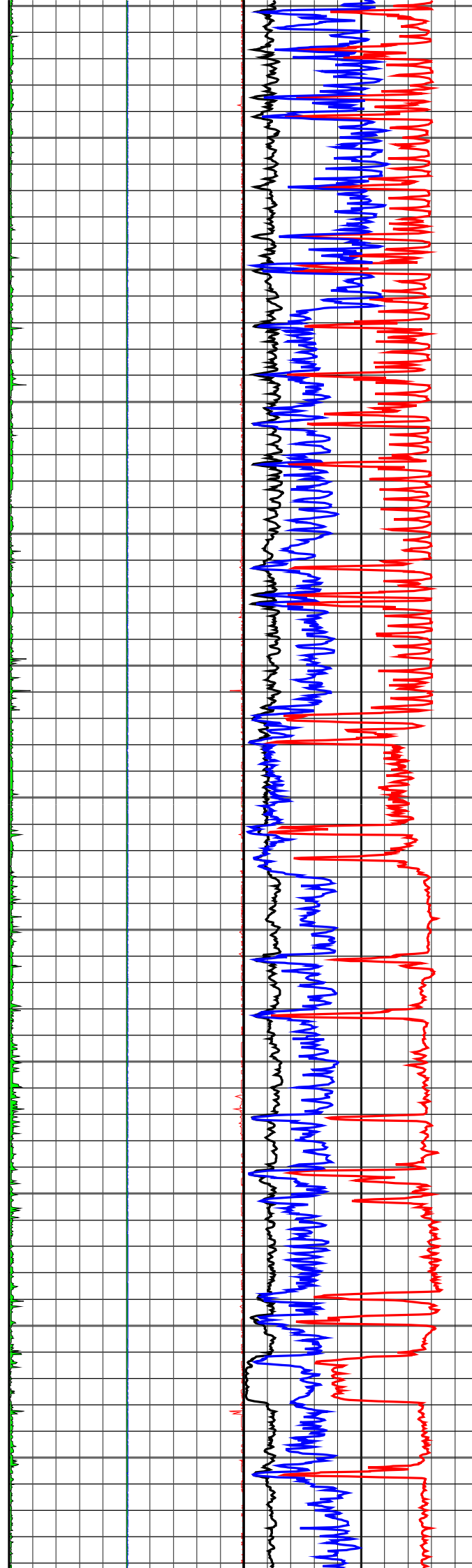
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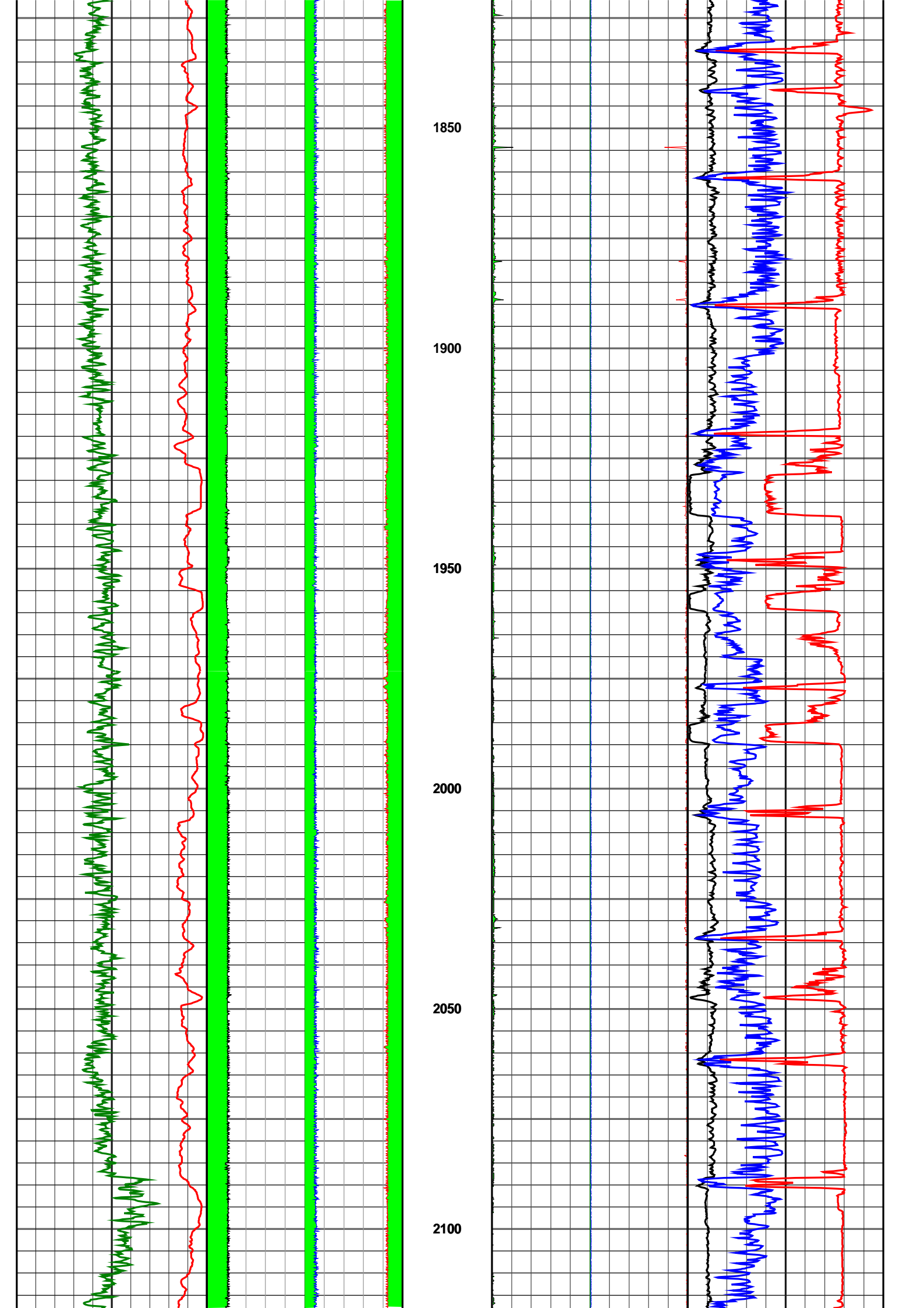
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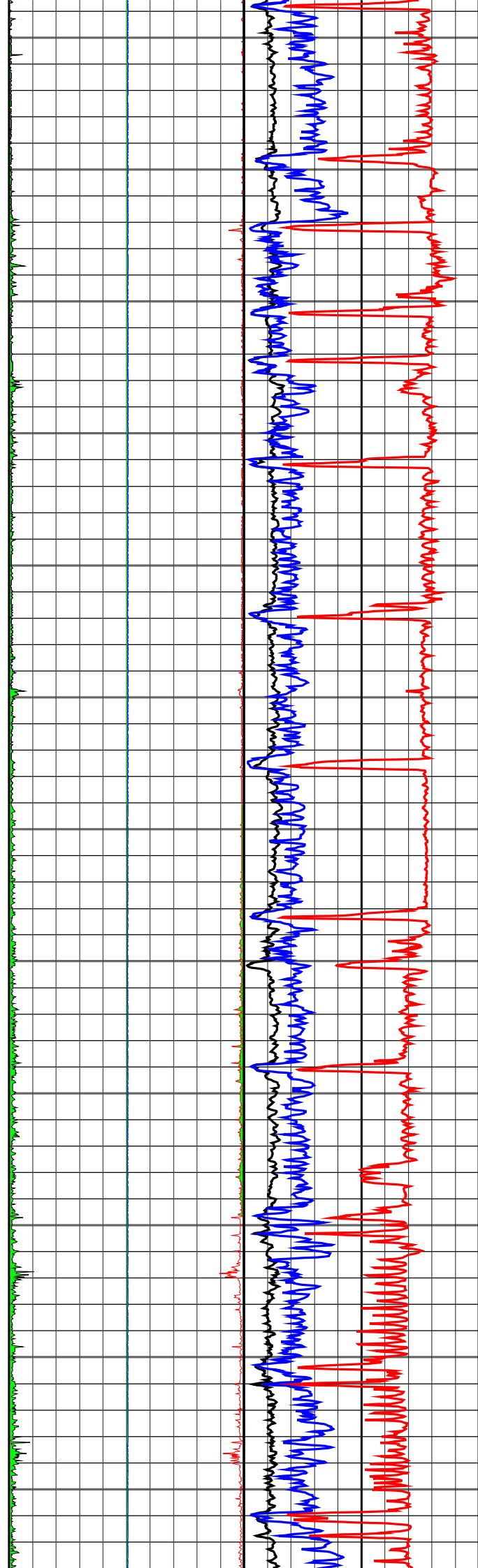
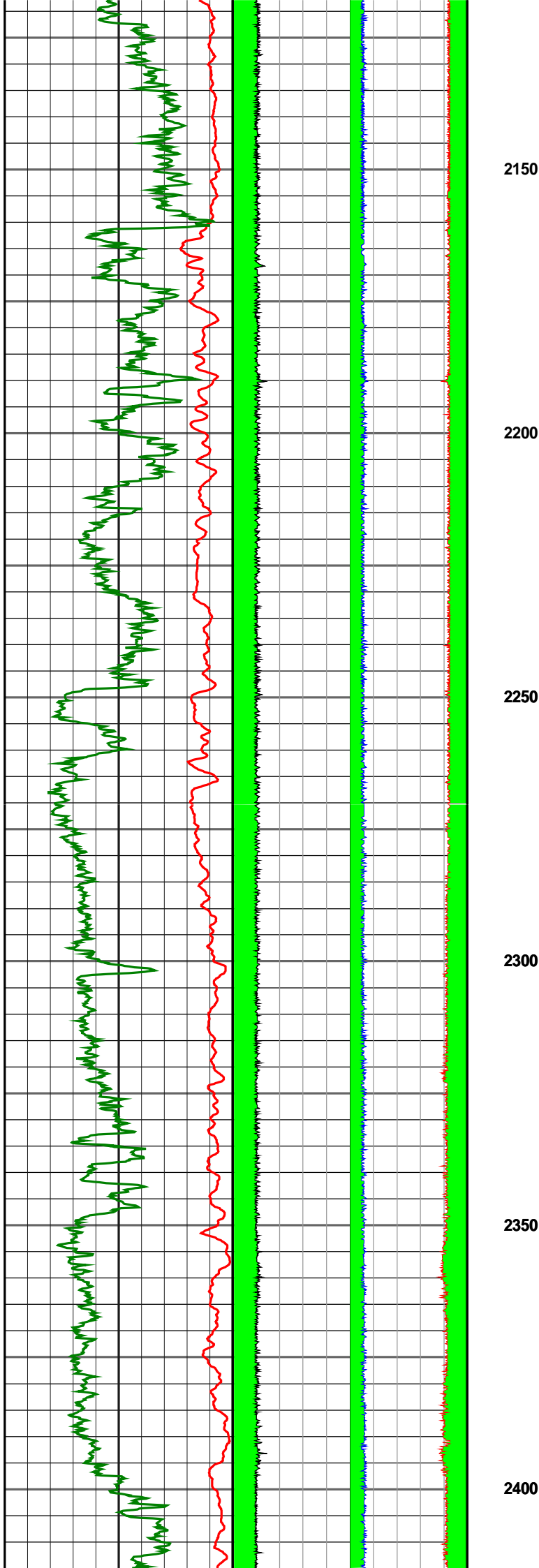
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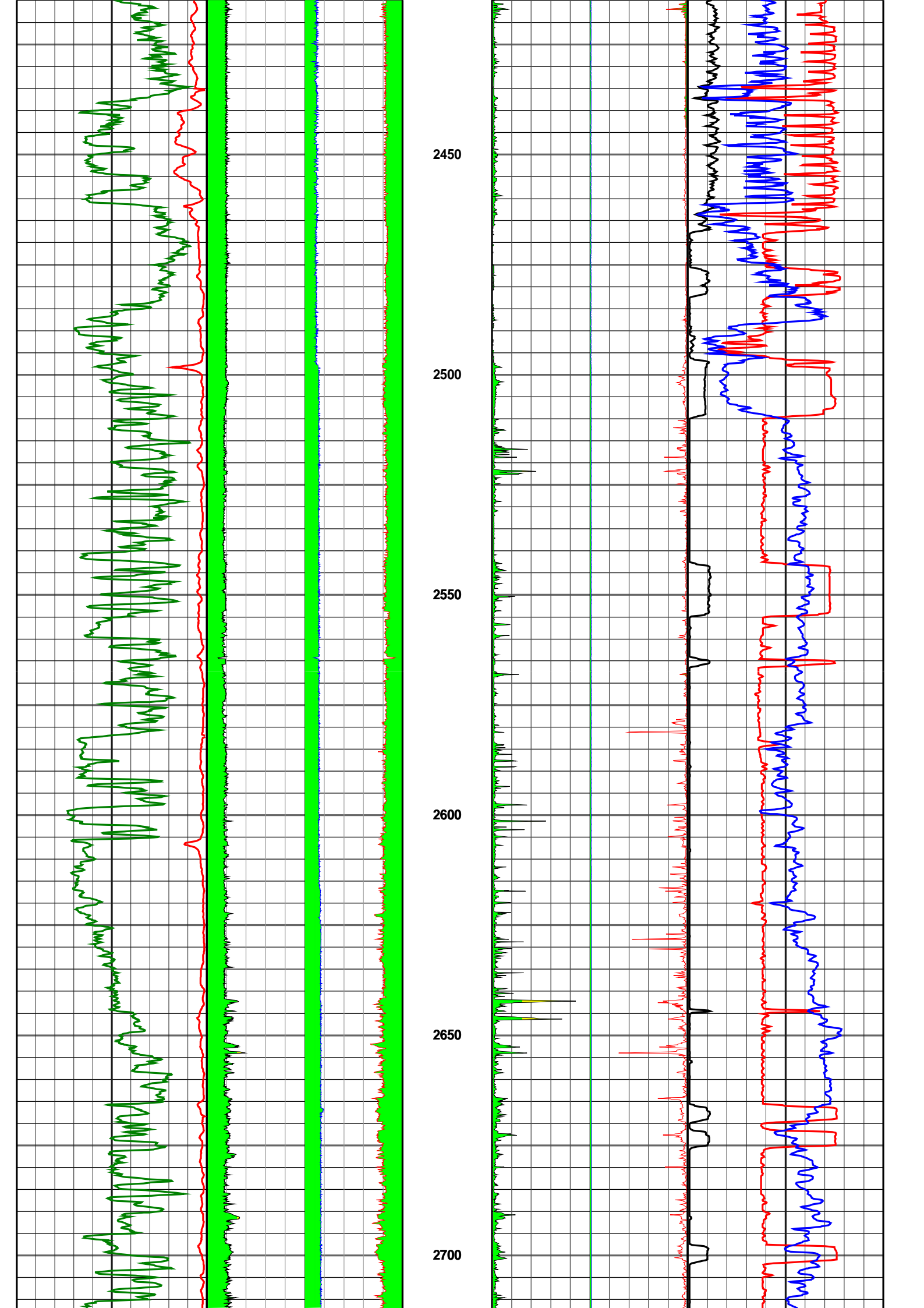
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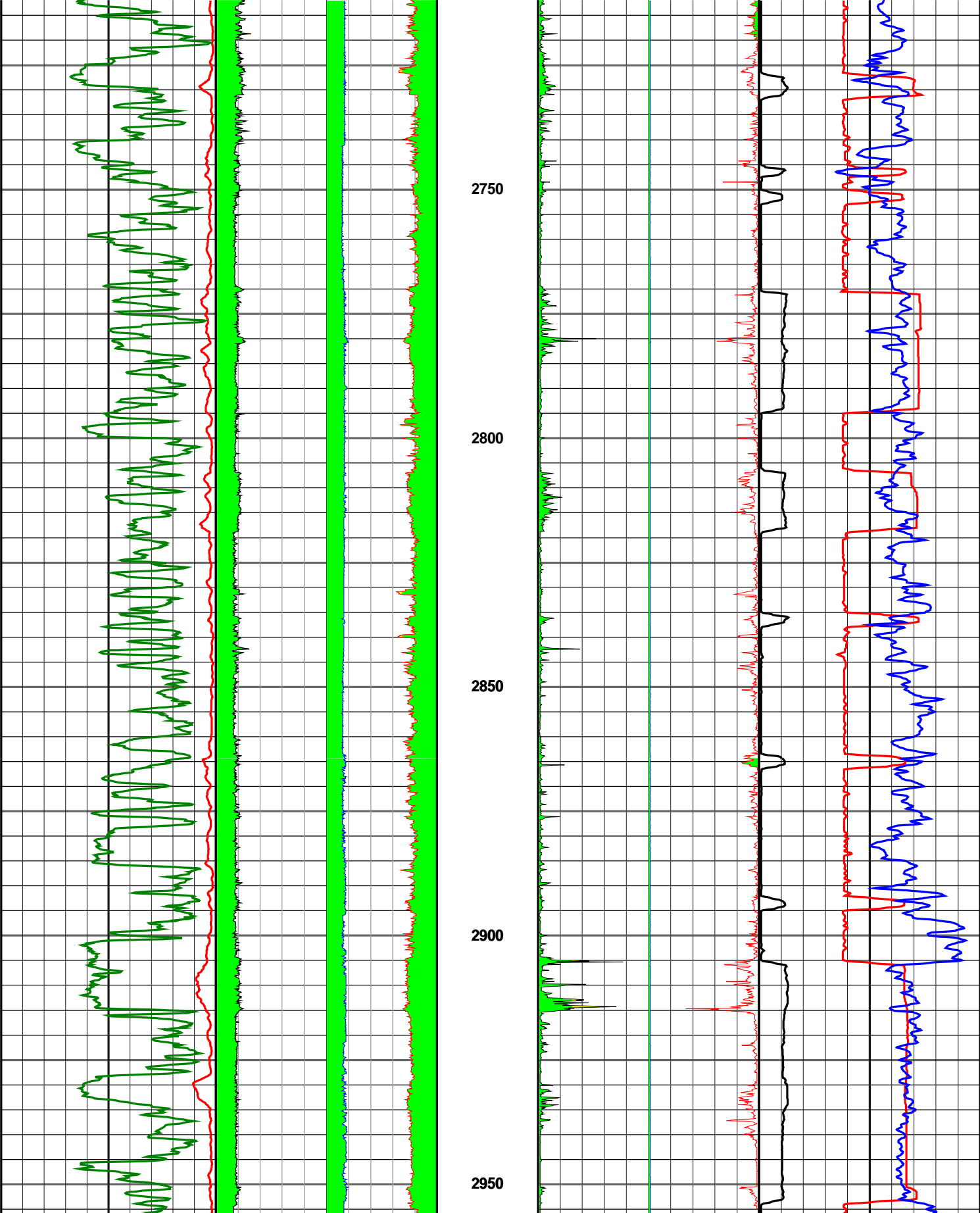
1800











500		0		-10		10		Depth 1:1000	-100		100		0		300	
SROP				SAAZ					SPAZ				BIT RPM			
m/hr				g					g				rev per min			
0		200		20		0			200		0		Torque		50	
SGRC				SAAY					SPAY				foot-klb			
api				g					g				WOB		50	
				SAAX					SPAX				kilo pounds			
				0		20			0		200					
				g					g							



DIRECTIONAL SURVEY REPORT

Anzon Australia Ltd

Basker-2

Basker

Victoria

Australia

AU-FE-0003704943

RT to MSL = 21.5m. Final survey projected to TD.

<i>Measured Depth (metres)</i>	<i>Inclination (degrees)</i>	<i>Direction (degrees)</i>	<i>Vertical Depth (metres)</i>	<i>Latitude (metres)</i>	<i>Departure (metres)</i>	<i>Vertical Section (metres)</i>	<i>Dogleg (deg/30m)</i>
0.000	0.00	0.00	0.000	1.400 N	1.900 E	-1.705	TIE-IN
176.000	0.00	0.00	176.000	1.400 N	1.900 E	-1.705	0.00
224.640	0.19	161.03	224.640	1.325 N	1.926 E	-1.635	0.12
282.390	0.07	139.65	282.390	1.209 N	1.979 E	-1.530	0.07
311.290	0.09	116.77	311.290	1.185 N	2.011 E	-1.512	0.04
340.130	0.10	73.76	340.130	1.181 N	2.056 E	-1.517	0.07
368.980	0.06	116.98	368.980	1.181 N	2.093 E	-1.523	0.07
397.820	0.09	163.12	397.820	1.153 N	2.113 E	-1.499	0.07
426.640	0.04	150.94	426.640	1.122 N	2.125 E	-1.470	0.05
455.270	0.09	138.56	455.270	1.097 N	2.145 E	-1.448	0.05
512.450	0.09	115.62	512.450	1.044 N	2.215 E	-1.409	0.02
541.040	0.09	127.28	541.039	1.020 N	2.255 E	-1.392	0.02
569.570	0.09	149.55	569.569	0.986 N	2.285 E	-1.363	0.04
598.150	0.10	130.15	598.149	0.950 N	2.315 E	-1.334	0.03
626.680	0.07	122.82	626.679	0.925 N	2.348 E	-1.315	0.03
655.390	0.07	93.47	655.389	0.915 N	2.380 E	-1.310	0.04
684.110	0.09	75.67	684.109	0.920 N	2.419 E	-1.321	0.04
713.010	0.07	46.86	713.009	0.937 N	2.455 E	-1.345	0.05
741.780	0.09	14.62	741.779	0.970 N	2.473 E	-1.380	0.05
770.730	0.11	35.10	770.729	1.015 N	2.495 E	-1.428	0.04
799.470	0.10	46.21	799.469	1.055 N	2.528 E	-1.473	0.03
828.160	0.07	89.32	828.159	1.072 N	2.563 E	-1.496	0.07
856.720	0.07	42.39	856.719	1.085 N	2.592 E	-1.513	0.06
885.230	0.00	253.43	885.229	1.097 N	2.604 E	-1.528	0.07
913.660	0.06	324.63	913.659	1.110 N	2.595 E	-1.539	0.07
970.770	0.04	321.60	970.769	1.152 N	2.564 E	-1.575	0.01
990.300	0.10	275.80	990.299	1.159 N	2.542 E	-1.578	0.11
1007.580	0.12	323.98	1007.579	1.175 N	2.517 E	-1.590	0.16
1036.290	0.17	300.46	1036.289	1.222 N	2.462 E	-1.626	0.08
1065.040	0.17	5.05	1065.039	1.288 N	2.428 E	-1.685	0.19
1093.900	0.22	331.06	1093.899	1.381 N	2.404 E	-1.773	0.13
1122.820	0.14	342.26	1122.819	1.463 N	2.367 E	-1.847	0.09
1151.700	0.31	334.26	1151.698	1.566 N	2.322 E	-1.942	0.18
1180.480	0.25	318.65	1180.478	1.683 N	2.248 E	-2.043	0.10
1209.260	0.31	340.89	1209.258	1.803 N	2.181 E	-2.150	0.13
1237.940	0.31	337.82	1237.937	1.948 N	2.127 E	-2.284	0.02
1294.960	0.41	316.37	1294.956	2.238 N	1.928 E	-2.536	0.09
1323.330	0.41	317.99	1323.325	2.387 N	1.790 E	-2.659	0.01
1351.780	0.50	308.15	1351.774	2.539 N	1.624 E	-2.780	0.12
1380.290	0.45	323.73	1380.284	2.705 N	1.461 E	-2.916	0.15
1408.920	0.56	313.66	1408.912	2.891 N	1.294 E	-3.071	0.15
1466.440	0.57	319.35	1466.430	3.302 N	0.905 E	-3.409	0.03
1495.450	0.53	333.19	1495.438	3.531 N	0.750 E	-3.608	0.14
1524.520	0.62	322.85	1524.507	3.777 N	0.595 E	-3.823	0.14
1553.750	0.62	337.42	1553.735	4.048 N	0.439 E	-4.063	0.16
1582.700	0.61	335.79	1582.683	4.333 N	0.316 E	-4.323	0.02
1611.640	0.79	336.96	1611.621	4.656 N	0.175 E	-4.617	0.18
1640.300	0.88	343.27	1640.279	5.047 N	0.035 E	-4.978	0.14
1727.420	1.05	341.55	1727.386	6.447 N	0.411 W	-6.281	0.06
1753.750	1.25	345.40	1753.711	6.955 N	0.560 W	-6.755	0.24
1782.060	1.31	348.87	1782.014	7.571 N	0.701 W	-7.338	0.10
1810.730	1.32	342.05	1810.676	8.207 N	0.866 W	-7.936	0.16
1839.510	1.16	347.31	1839.449	8.808 N	1.032 W	-8.501	0.20
1868.400	1.33	345.60	1868.332	9.420 N	1.180 W	-9.077	0.18
1897.600	1.53	346.99	1897.523	10.127 N	1.352 W	-9.745	0.21

Basker-2

Measured Depth (metres)	Inclination (degrees)	Direction (degrees)	Vertical Depth (metres)	Latitude (metres)	Departure (metres)	Vertical Section (metres)	Dogleg (deg/30m)
1926.730	1.66	346.26	1926.642	10.915 N	1.540 W	-10.489	0.14
1955.700	1.49	331.53	1955.601	11.653 N	1.818 W	-11.168	0.45
1984.130	1.39	329.83	1984.022	12.274 N	2.167 W	-11.720	0.11
2012.560	1.45	328.82	2012.444	12.879 N	2.526 W	-12.254	0.07
2040.960	1.49	334.37	2040.834	13.517 N	2.870 W	-12.824	0.16
2069.470	1.39	333.91	2069.335	14.161 N	3.182 W	-13.405	0.10
2184.590	1.56	330.85	2184.417	16.785 N	4.561 W	-15.753	0.05
2213.550	1.69	337.47	2213.365	17.524 N	4.917 W	-16.421	0.24
2242.350	1.79	336.87	2242.152	18.331 N	5.256 W	-17.157	0.10
2271.080	1.80	337.68	2270.868	19.161 N	5.604 W	-17.915	0.03
2299.800	1.92	339.68	2299.573	20.029 N	5.942 W	-18.712	0.14
2328.310	1.98	339.76	2328.066	20.938 N	6.278 W	-19.550	0.07
2356.390	1.99	341.40	2356.129	21.855 N	6.601 W	-20.398	0.06
2384.840	2.01	340.79	2384.562	22.795 N	6.923 W	-21.269	0.03
2413.640	2.13	341.03	2413.343	23.778 N	7.264 W	-22.179	0.12
2442.710	2.02	337.08	2442.394	24.762 N	7.639 W	-23.084	0.19
2472.220	2.07	337.28	2471.886	25.733 N	8.048 W	-23.970	0.05
2499.050	2.11	341.02	2498.698	26.646 N	8.395 W	-24.810	0.16
2527.690	1.24	320.72	2527.326	27.384 N	8.763 W	-25.474	1.09
2557.340	0.87	264.89	2556.971	27.612 N	9.190 W	-25.626	1.05
2585.210	1.48	194.31	2584.836	27.244 N	9.490 W	-25.212	1.56
2612.450	3.62	191.42	2612.048	26.059 N	9.747 W	-24.000	2.36
2643.410	6.45	190.09	2642.885	23.388 N	10.246 W	-21.284	2.74
2671.360	7.27	185.29	2670.635	20.083 N	10.684 W	-17.952	1.07
2700.450	9.30	184.65	2699.420	15.909 N	11.044 W	-13.778	2.09
2728.710	10.88	181.90	2727.243	10.967 N	11.317 W	-8.863	1.76
2757.900	13.90	178.27	2755.749	4.706 N	11.303 W	-2.697	3.20
2786.380	15.37	180.97	2783.305	2.488 S	11.264 W	4.384	1.70
2814.750	16.98	182.03	2810.551	10.388 S	11.475 W	12.202	1.73
2844.320	19.56	181.05	2838.629	19.653 S	11.719 W	21.372	2.63
2872.380	24.39	182.40	2864.642	30.144 S	12.047 W	31.764	5.19
2901.450	28.38	180.27	2890.679	43.055 S	12.331 W	44.532	4.23
2930.710	28.88	180.28	2916.361	57.075 S	12.398 W	58.356	0.51
2981.050	30.08	180.84	2960.183	81.847 S	12.642 W	82.802	0.73
3009.870	29.88	179.84	2985.147	96.248 S	12.728 W	97.004	0.56
3038.460	29.08	178.87	3010.035	110.315 S	12.571 W	110.836	0.98
3066.640	28.66	178.39	3034.714	123.916 S	12.247 W	124.179	0.51
3095.280	28.69	178.54	3059.843	137.652 S	11.878 W	137.648	0.08
3123.980	28.01	177.16	3085.100	151.270 S	11.368 W	150.977	0.98
3153.210	27.87	176.17	3110.922	164.943 S	10.571 W	164.311	0.50
3181.820	27.45	174.86	3136.263	178.184 S	9.533 W	177.177	0.77
3210.140	26.65	173.92	3161.484	191.002 S	8.274 W	189.589	0.96
3238.540	26.31	172.34	3186.905	203.574 S	6.760 W	201.715	0.82
3267.810	25.94	171.77	3213.184	216.340 S	4.980 W	213.986	0.46
3307.720	26.06	170.42	3249.054	233.625 S	2.271 W	230.550	0.45
3364.810	25.94	170.20	3300.365	258.296 S	1.941 E	254.132	0.08
3401.220	25.96	170.31	3333.104	273.999 S	4.638 E	269.139	0.04
3414.000	25.96	170.31	3344.595	279.513 S	5.580 E	274.411	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 189.88 DEGREES (GRID)
A TOTAL CORRECTION OF 14.44 DEG FROM MAGNETIC NORTH TO GRID NORTH HAS BEEN APPLIED



































































































HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD.
HORIZONTAL DISPLACEMENT(CLOSURE) AT 3414.000 METRES
IS 279.569 METRES ALONG 178.86 DEGREES (GRID)

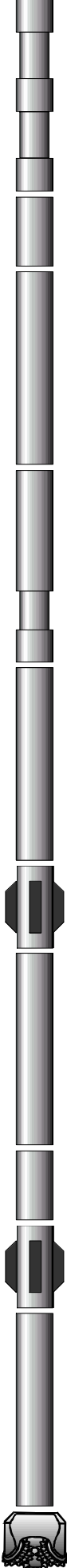

MWD RUN 200 - BHA

MWD RUN 200 - MWD

Component Cumulative

Sensor

		Length (m)	Length (m)			Sensor Measure Point Distance To Bit (m)
			200.16			
HWDP				TM		
		138.430				
						
Cross Over Sub			61.73			
		1.170				
			60.56			
Pony collar				PM		
		5.020				
			55.54			
Drilling Jars						
		10.110				
			45.43	HCIM		
Drill Collar						
		17.640				
			27.79			
Integral Blade Stabilizer		2.470				
			25.32			
MWD				EWR-P4		
		13.100				15.790
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						
						

		(m)	(m)			Point Distance To Bit (m)
HWDP		200.17		Positive Pulser		
		138.430				
Cross Over Sub		61.74				
		1.170				
		60.57				
Pony collar		5.020		TM		
		55.55				
Drilling Jars		10.110		PM		
		45.44				
Drill Collar		17.640				
		27.80		HCIM		
Integral Blade Stabilizer		2.470				
		25.33				
MWD		13.100		EWR-P4		
		12.23				
Cross Over Sub		1.030				
		11.20				19.200
Integral Blade Stabilizer		2.350				
		8.85				
9-5/8" SperryDrill Lobe 3/4 - 4M ₃ DI		8.500		DGR		
		0.35				16.840
Tricone						

MWD RUN 400 - BHA

MWD RUN 400 - MWD

	Component Length (m)	Cumulative Length (m)		Sensor Measure Point Distance
		196.72		

