

1 : 1000

**WILD**

DDS Drill String Dynamics

[illegible]

MWD Run Number	200	300	400		
Date run completed	14-May-05	16-May-05	19-May-05		
Rig Bit Number	3	4	5		
Bit Size (mm)	311	311	311		
Tool Nominal OD (mm)	203	203	203		
Log Start Depth (MD, m)	742.0	1,304.0	1,761.0		
Log End Depth (MD, m)	1,304.0	1,761.0	1,825.0		
Drill or Wipe	Drilling	Drilling	Drilling		
Drill/Wipe Start Date and Time	13-May-05 05:18	15-May-05 05:44	18-May-05 22:00		
Drill/Wipe End Date and Time	14-May-05 14:30	16-May-05 00:09	19-May-05 01:48		
Min Inc (deg) @ Depth (MD, m)	0.53 @ 842.32	4.15 @ 1,616.98	4.28 @ 1,805.20		
Max Inc (deg) @ Depth (MD, m)	4.61 @ 1,284.20	4.65 @ 1,300.98	4.46 @ 1,760.80		
Bit TFA(in2) / Bit Type	0.92 / HC MX-03DX	1.10 / Smith MA89PX	1.10 / Smith MA89PX		
Flow Rate (gpm)	980	887	820		
Max AV (mpm) / CV (mpm) @ MWD	86.8 / 135.0	82.0 / 157.2	74.5 / 79.8		
Fluid Type	KCl/Polymer	KCl/Polymer	KCl/Polymer		
Density (sg) / Viscosity (spqt)	1.2 / 54	1.2 / 54	1.3 / 70		
Filtrate CL (ppm)	27,000	38,500	40,000		
pH / Fluid Loss (mptm)	8.2 / 4.2	9.0 / 4.0	9.0 / 3.6		
PV (cp) / YP (lhf2)	17 / 29	21 / 37	23 / 17		
% Solids / % Sand	10 / 1	11.6 / 0.5	13 / 0.4		
% Oil / Oil:Water Ratio	N/A / N/A	N/A / N/A	N/A / N/A		
Rm @ Measured Temp (degC)	0.16 @ 25.3	0.12 @ 22.8	0.14 @ 17.8		
Rmf @ Measured Temp (degC)	0.13 @ 25.6	0.10 @ 23.3	0.09 @ 17.8		
Rmc @ Measured Temp (degC)	0.29 @ 24.4	0.19 @ 23.3	0.36 @ 17.8		
Max Tool Temp (degC) / Source	61.0 / EWR	67.7 / EWR-P4	65.0 / HCIM		
Rm @ Max Tool Temp (degC)	0.09 @ 61.0	0.06 @ 67.7	0.06 @ 65.0		
Lead MWD Engineer	A. Rule	A. Rule	A. Rule		
Customer Representative	R. King	R. King	C. Wise		

SENSOR INFORMATION

Downhole Processor Information

Tool Type	HCIM	HCIM	HCIM		
Software Version	68.18	68.18	68.18		
Sub Serial Number	198838	198838	198838		
Insert Serial Number	163155	163155	110349		
Logging String Serial Number	DM90072522	DM90072522	DM90072523		
Date and Time Initialized	12-May-05 19:10	14-May-05 21:17	18-May-05 16:42		
Date and Time Read	14-May-05 20:39	16-May-05 19:22	19-May-05 10:09		

Directional Sensor Information

Tool Type	DM	DM	DM		
Distance From Bit (m)	19.18	19.22	19.10		
Software Version	3.15	3.15	3.15		
Sub Serial Number	1	1	128402		
Sonde Serial Number	87896	87896	10581139		
Sensor ID Number	N/A	N/A	N/A		
Survey String Serial Number	N/A	N/A	N/A		
Toolface Offset (deg)	0	0	0		

Gamma Ray Sensor Information

Tool Type	DGR	DGR	DGR		
Distance From Bit (m)	10.31	10.35	10.34		
Recorded Sample Period (sec)	12	12	12		
Software Version	N/A	N/A	N/A		
Sub Serial Number	059984	059984	10603326		
Insert/Sonde Serial Number	151078	151078	084171		

Drillstring Dynamics Sensor Information

Tool Type	DDS	DDS			
Distance From Bit (m)	0	0			
Recorded Sample Period (sec)	12	12			
Software Version	.50	.50			
Sub Serial Number	159984	159984			
Insert Serial Number	151078	151078			
Sensor ID Number	126	126			

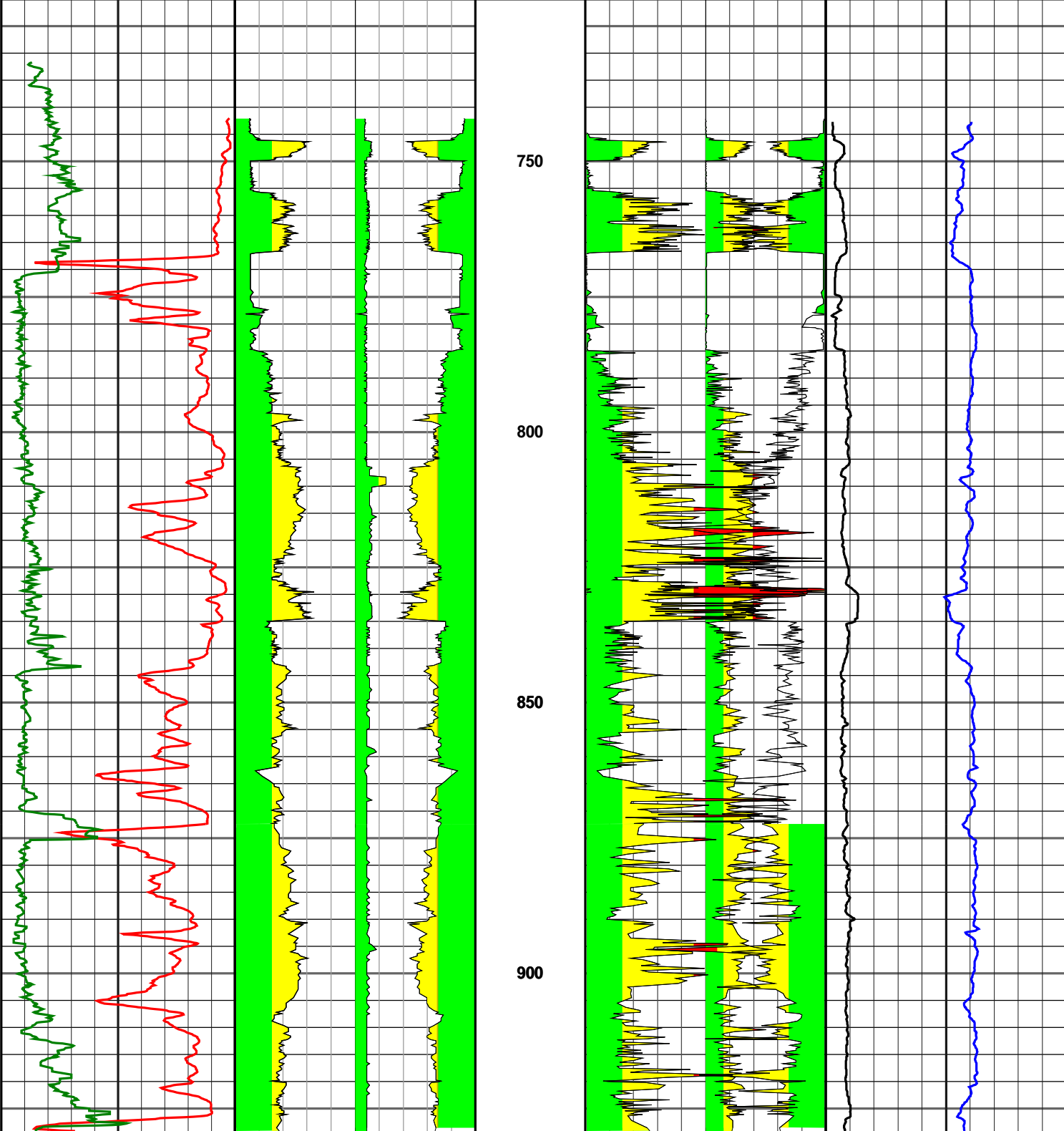
REMARKS

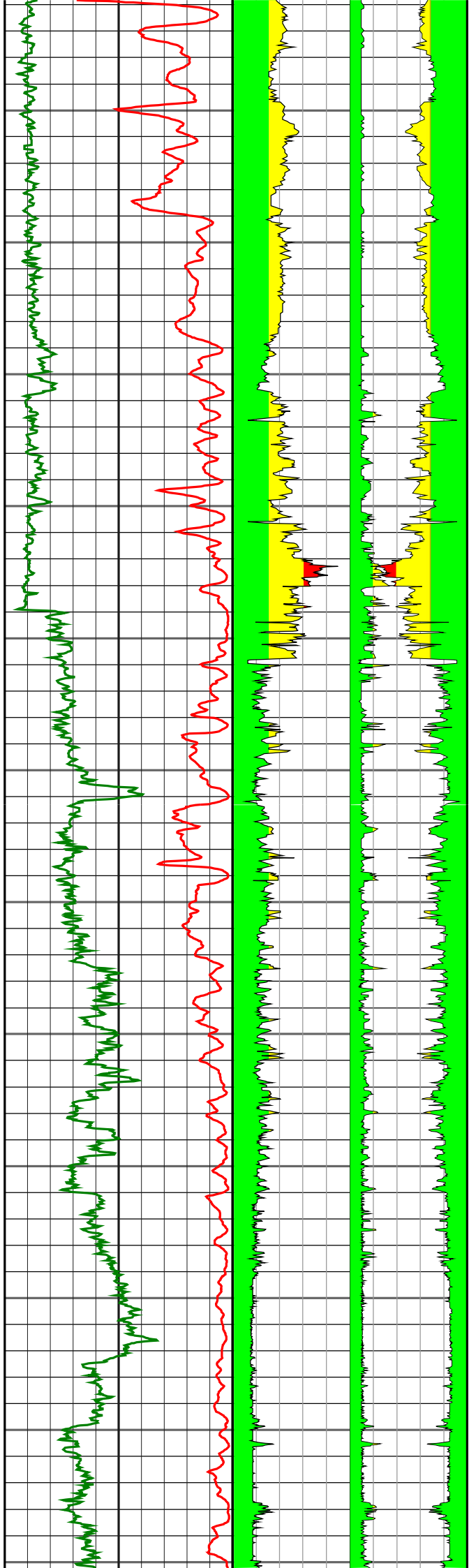
1. All depths are bit depths and referenced to the drillers pipe tally
2. AV/CV is calculated at the MWD collar using the Powere Law for water based muds and the Bingham's Plastic Law for oil based muds.
3. Curve mnemonics are:
SGRC - Smoothed Gamma Ray Combined, api
SROP - Smoothed Rate of Penetration, m/hr
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
HKLD - Hookload, klb
RPM - Surface Drillstring Revolutions Per Minute, rpm
TORQUE - Surface Torque, ft-klbs
4. Interval 1761.0-1794.0 mMDRT was logged after coring.
5. SDL data not received from mudlogging company, data presented from SDS.
6. DDS tool was not run on Run 400.
7. EMS Surveys were adjusted by Santos Ltd to correct for magnetic interference.

WARRANTY

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





950

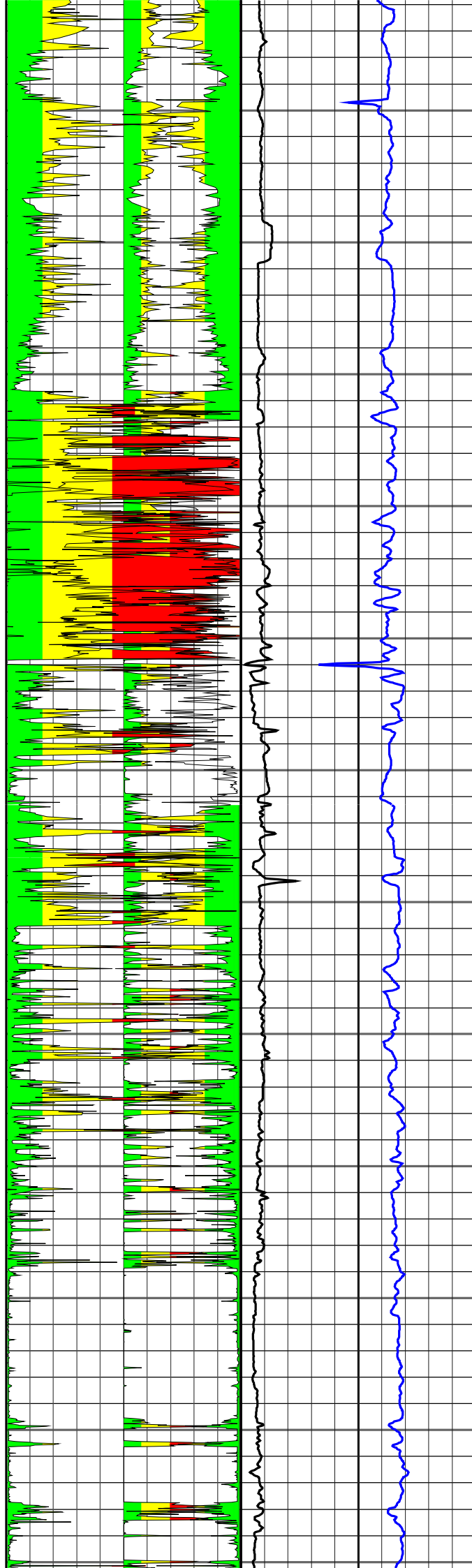
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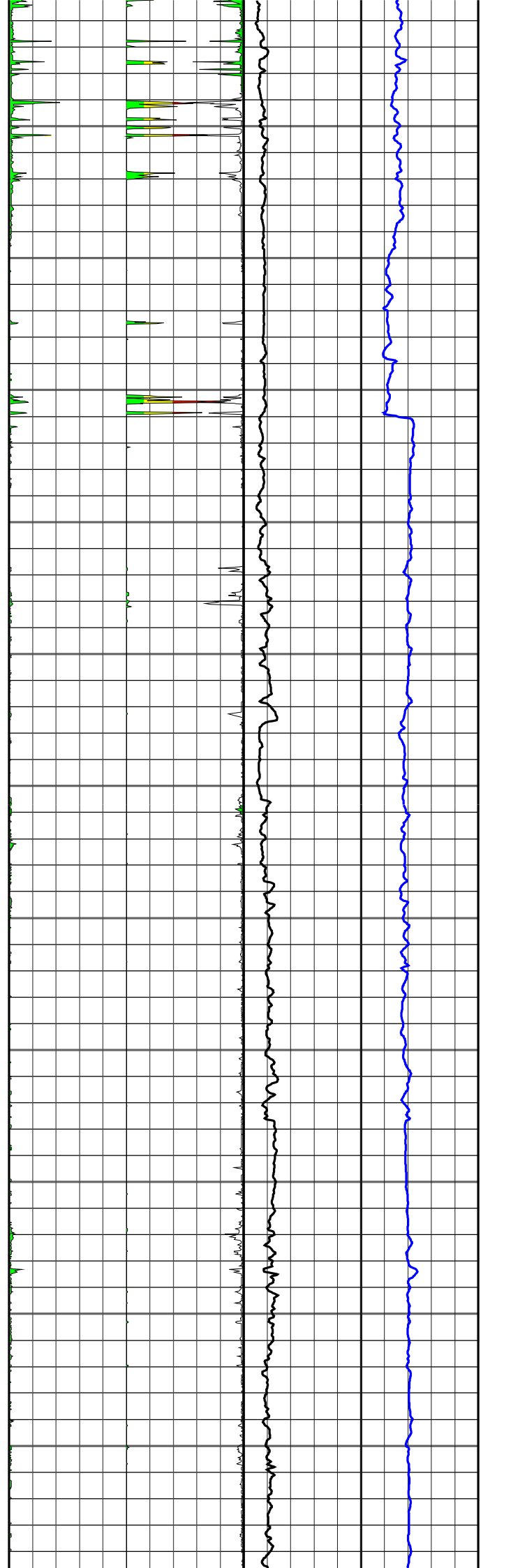
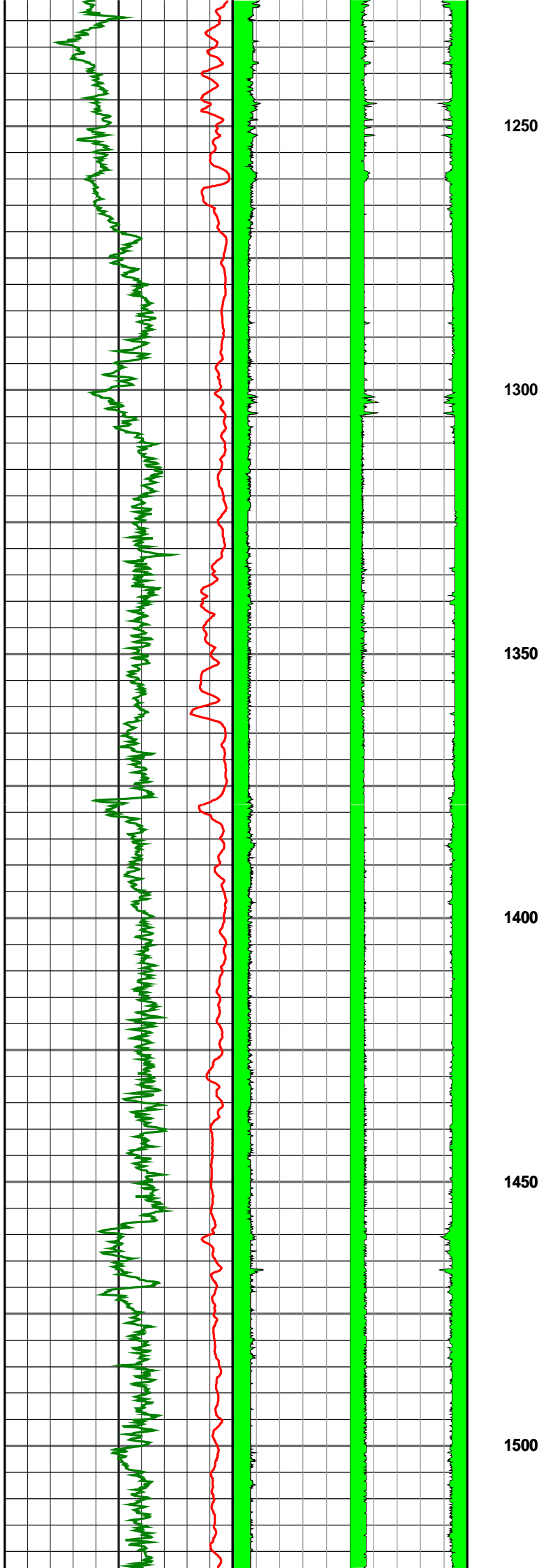
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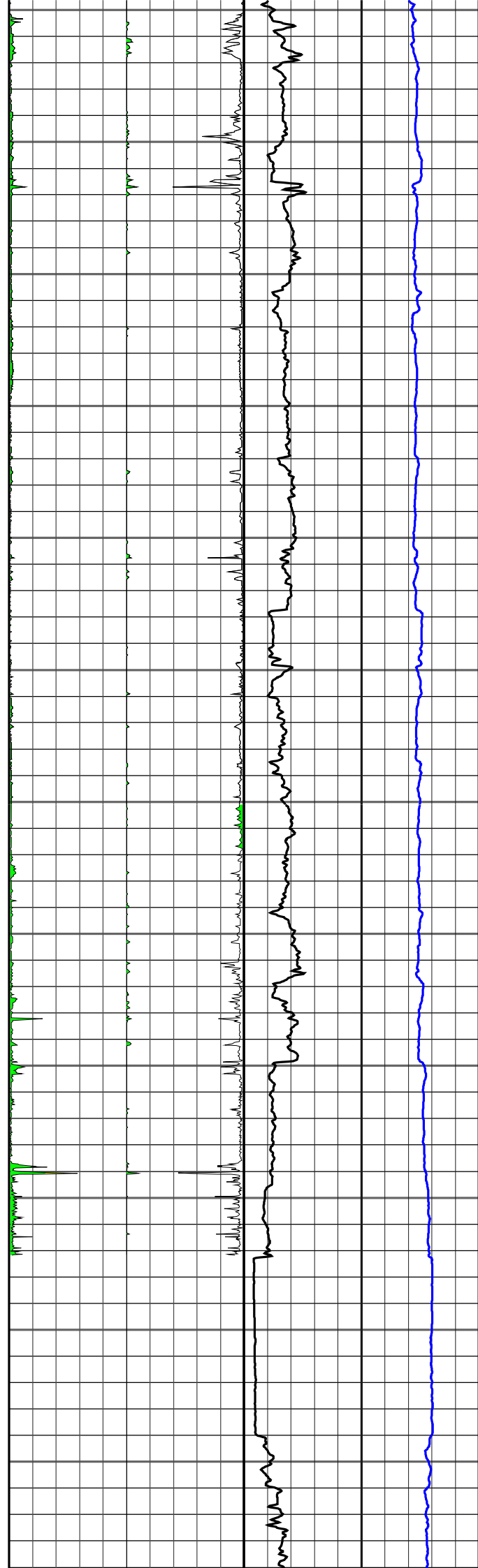
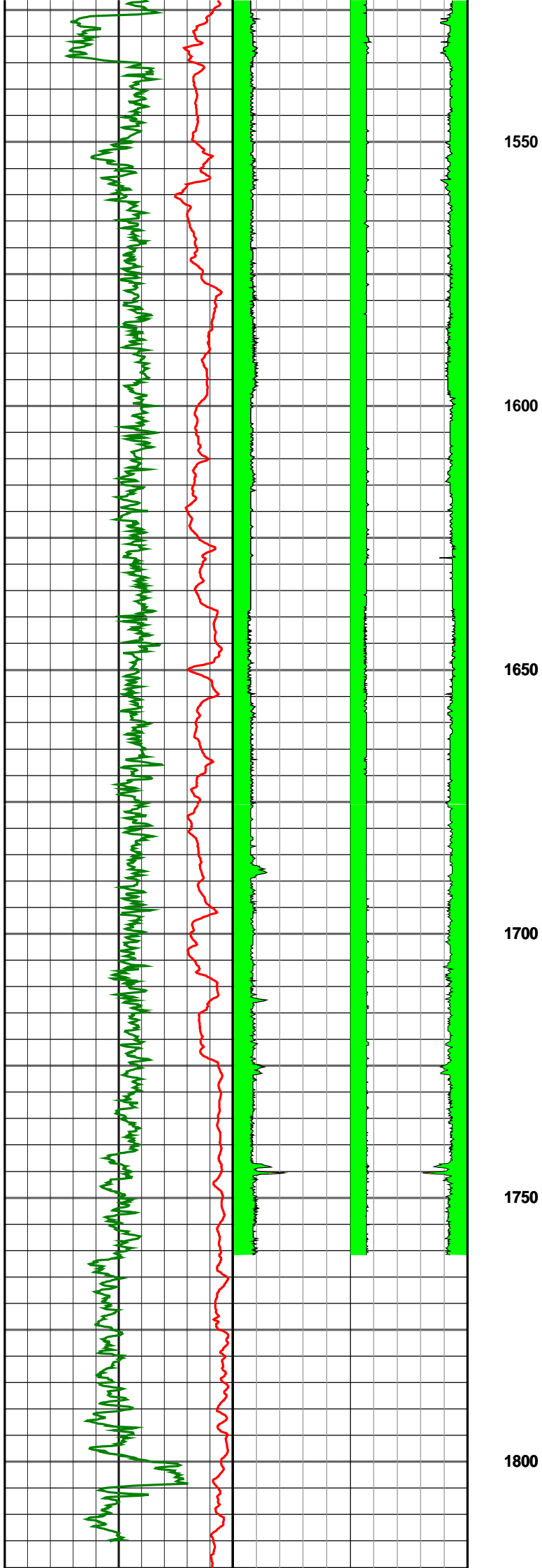
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DIRECTIONAL SURVEY REPORT

AU-FE-0003530535

RT to LAT = 22.0m. EMS Surveys to 734.4 mMDRT.

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Casino-4

Measured Depth (metres)	Inclination (degrees)	Direction (degrees)	Vertical Depth (metres)	Latitude (metres)	Departure (metres)	Vertical Section (metres)	Dogleg (deg/30m)
1284.200	4.61	205.06	1283.412	12.506 S	2.754 W	-12.506	0.13
1300.980	4.65	203.38	1300.137	13.741 S	3.309 W	-13.741	0.25
1329.900	4.59	205.24	1328.963	15.863 S	4.267 W	-15.863	0.17
1416.800	4.27	202.81	1415.604	21.990 S	7.004 W	-21.990	0.13
1445.220	4.21	202.25	1443.946	23.932 S	7.810 W	-23.932	0.07
1472.150	4.21	200.09	1470.803	25.776 S	8.524 W	-25.776	0.18
1530.610	4.18	198.76	1529.106	29.811 S	9.948 W	-29.811	0.05
1588.180	4.19	198.08	1586.523	33.799 S	11.275 W	-33.799	0.03
1616.980	4.15	199.72	1615.246	35.780 S	11.953 W	-35.780	0.13
1645.860	4.17	198.78	1644.050	37.758 S	12.644 W	-37.758	0.07
1674.590	4.18	197.38	1672.704	39.745 S	13.293 W	-39.745	0.11
1732.100	4.45	198.68	1730.051	43.859 S	14.634 W	-43.859	0.15
1760.800	4.46	201.16	1758.664	45.954 S	15.393 W	-45.954	0.20
1805.200	4.28	201.27	1802.935	49.107 S	16.617 W	-49.107	0.12
1825.000	4.28	201.27	1822.680	50.484 S	17.153 W	-50.484	0.00

CALCULATION BASED ON MINIMUM CURVATURE METHOD

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

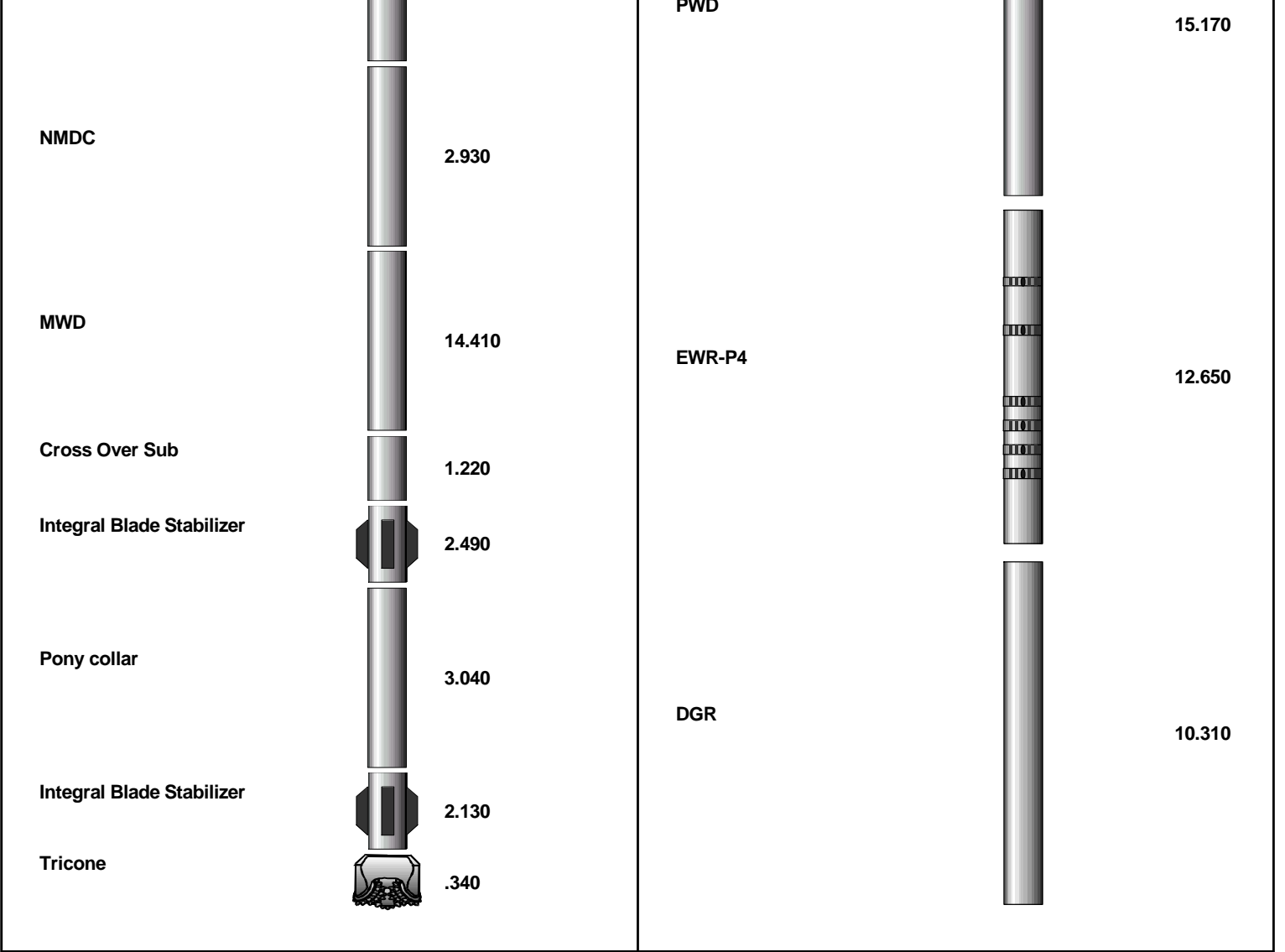
VERTICAL SECTION RELATIVE TO WELL HEAD
VERTICAL SECTION IS COMPUTED ALONG A DIRECTION OF 0.00 DEGREES (GRID)
A TOTAL CORRECTION OF 12.01 DEG FROM MAGNETIC NORTH TO GRID NORTH HAS BEEN APPLIED

HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD.
HORIZONTAL DISPLACEMENT(CLOSURE) AT 1825.000 METRES
IS 53.319 METRES ALONG 198.77 DEGREES (GRID)

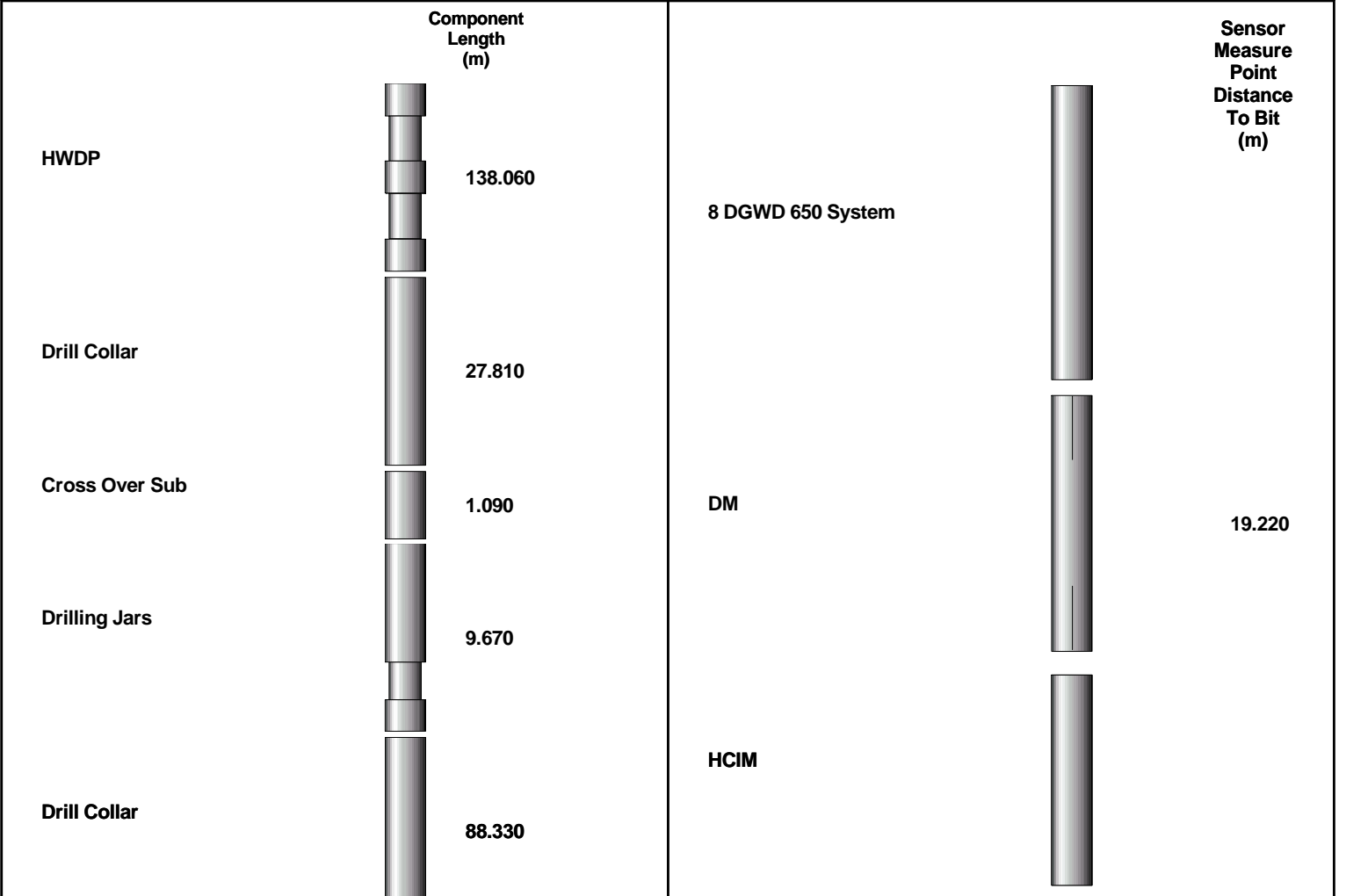
MWD RUN 200 - BHA













MWD RUN 200 - MWD

	Component Length (m)		Sensor Measure Point Distance To Bit (m)
HWDP	138.060	DM	19.180
Drill Collar	27.810		
Cross Over Sub	1.090	HCIM	
Drilling Jars	9.670		
Drill Collar	88.330		















MWD RUN 300 - BHA	MWD RUN 300 - MWD
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NMDC		2.930	PWD		15.210
MWD		14.410			
Cross Over Sub		1.220	EWR-P4		12.690
Integral Blade Stabilizer		2.490			
Pony collar		3.040	DGR		10.350
Integral Blade Stabilizer		2.130			
PDC		.380			

MWD RUN 400 - BHA	MWD RUN 400 - MWD
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	Component Length (m)		Sensor Measure Point Distance To Bit (m)
HWDP	138.060	8 DGWD 650 System	
Drill Collar	27.810		
Cross Over Sub	1.090	DM	19.100
Drilling Jars	9.670		
Drill Collar	88.330	HCIM	

NMDC		2.930	PWD		15.180
MWD		14.250			
Cross Over Sub		1.220	EWR-P4		12.670
Integral Blade Stabilizer		2.490			
Pony collar		3.040	DGR		10.340
Integral Blade Stabilizer		2.130			
PDC		.380			