



Company: **SANDRIDGE ENERGY**

Well: OLIVER 3306 2-14H

Field: **STOHRVILLE**

County: **HARPER** State: **KANSAS**

ARRAY INDUCTION
GAMMA RAY
MEMORY LOG

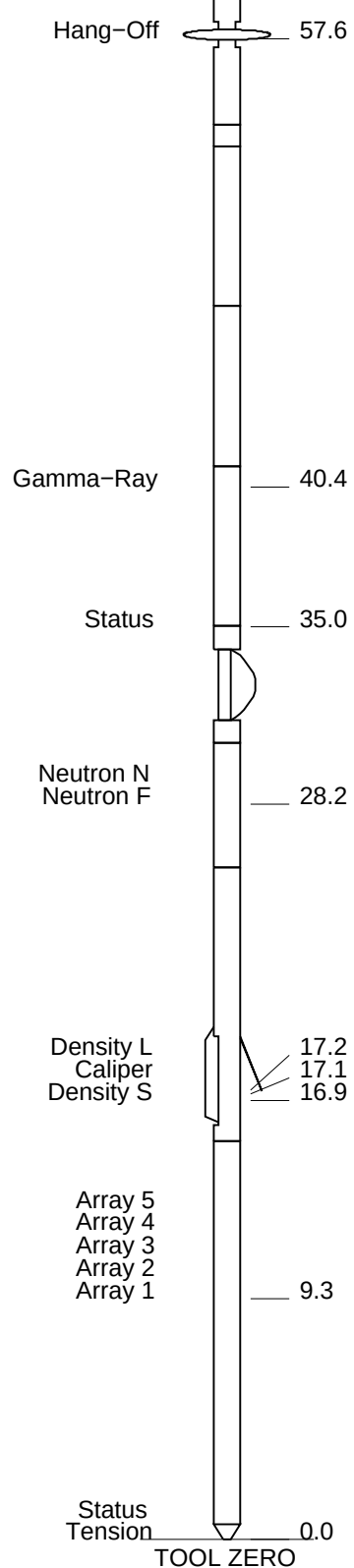
County:	HARPER			
Field:	STOHRVILLE			
Location:	SHL: 225' FSL & 1845' FEL			
Well:	OLIVER 3306 2-5			
Company:	SANDRIDGE ENERGY			
API Serial No. 15077220310100	LOCATION			
	Permanent Datum:	GROUND LEVEL	Elev.:	K.B. 1304.00 ft
	Log Measured From:	K.B.		G.L. 1286.00 ft
Drilling Measured From: K.B.			D.F.	1304.00 ft
Section 14				
Township 33S				
Range 6W				

[illegible]

Logging Date	3-Apr-2014					
Run Number	ONE					
Depth Driller	7391 ft					
Schlumberger Depth	7080 ft					
Bottom Log Interval	7070 ft					
Top Log Interval	5460 ft					
Casing Driller Size @ Depth	7.000 in @ 5470 ft				@	
Casing Schlumberger	5460 ft					
Bit Size	6.125 in					
Type Fluid In Hole	WBM					
Density	Viscosity	8.9 lbm/gal		34 s		
Fluid Loss	PH	24 cm3		8.4		
Source Of Sample	MUD SENSOR					
RM @ Measured Temperature	1.650 ohm.m @ 55 degF			@		
RMF @ Measured Temperature	1.230 ohm.m @ 55 degF			@		
RMC @ Measured Temperature	2.060 ohm.m @ 55 degF			@		
Source RMF	RMC	CALCULATED	CALCULATED			
RM @ MRT	RMF @ MRT	0.858 @ 112	0.640 @ 112	@		@
Maximum Recorded Temperatures	112 degF					
Circulation Stopped	3-Apr-2014		Time	17:00		
Logger On Bottom	3-Apr-2014		Time	18:00		
Unit Number	Location		11	OKC, OK		
Recorded By	DENGLEER					
Witnessed By	JACKIE KENNEDY					

Logging Date					
Run Number					
Depth Driller					
Schlumberger Depth					
Bottom Log Interval					
Top Log Interval					
Casing Driller Size @ Depth			@		
Casing Schlumberger					
Bit Size					
Type Fluid In Hole					
Density	Viscosity				
Fluid Loss	PH				
Source Of Sample					
RM @ Measured Temperature			@		
RMF @ Measured Temperature			@		
RMC @ Measured Temperature			@		
Source RMF	RMC				
RM @ MRT	RMF @ MRT	@		@	
Maximum Recorded Temperatures					
Circulation Stopped	Time				
Logger On Bottom	Time				
Unit Number	Location				
Recorded By					
Witnessed By					

TMG-A 39
TBEX-A
TBN-A 27
NNLS-EWA 3754
TBD-A 24
GGLS-FZ 3351
TBI-A 25



MAXIMUM STRING DIAMETER 2.13 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN FEET

Schlumberger

MAIN PASS

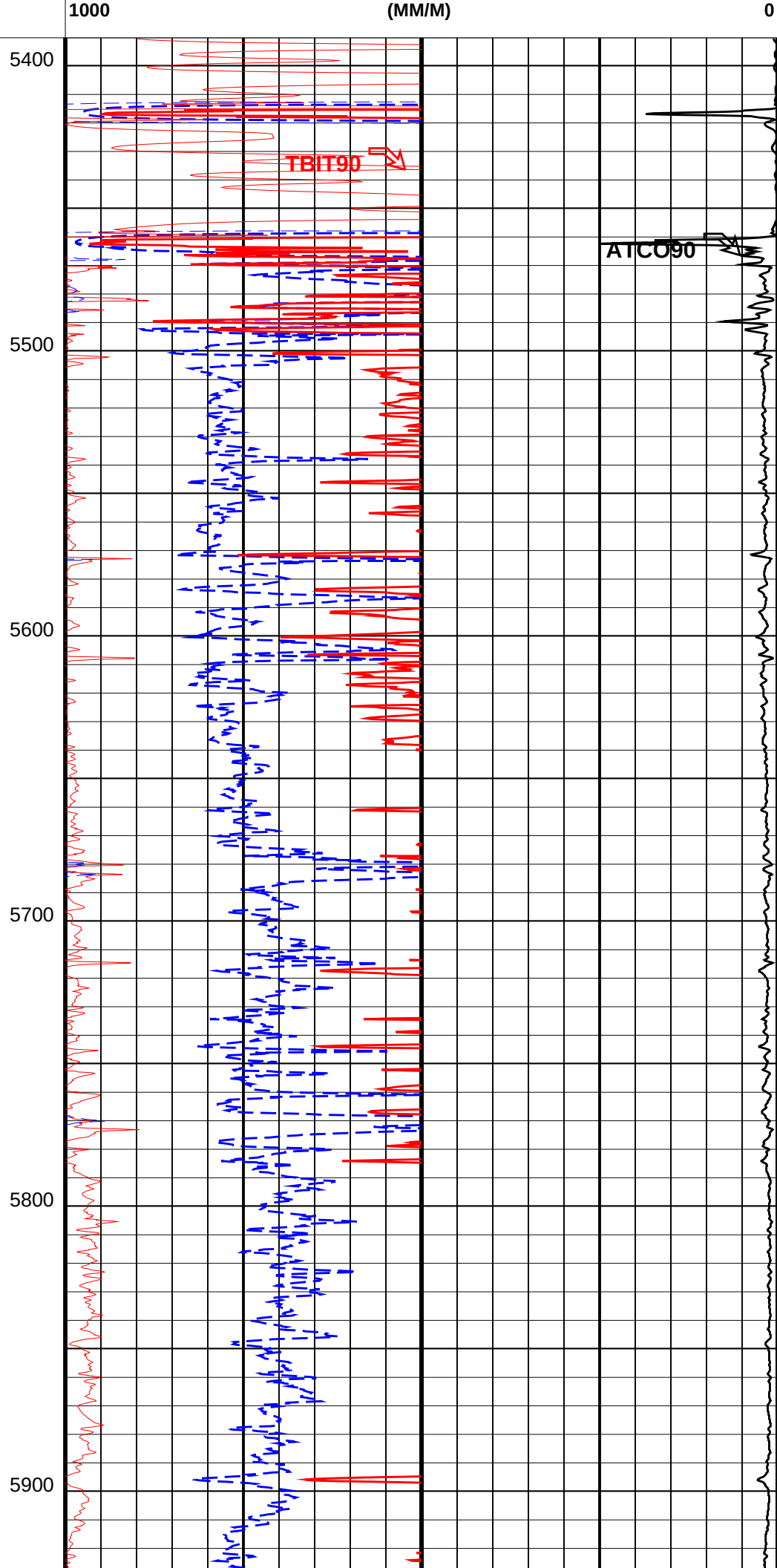
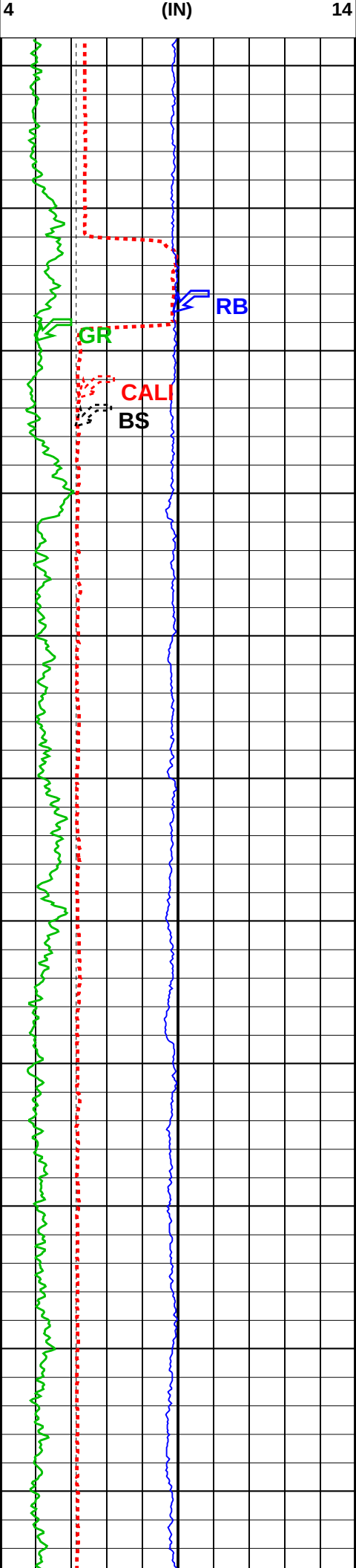
MAXIS Field Log

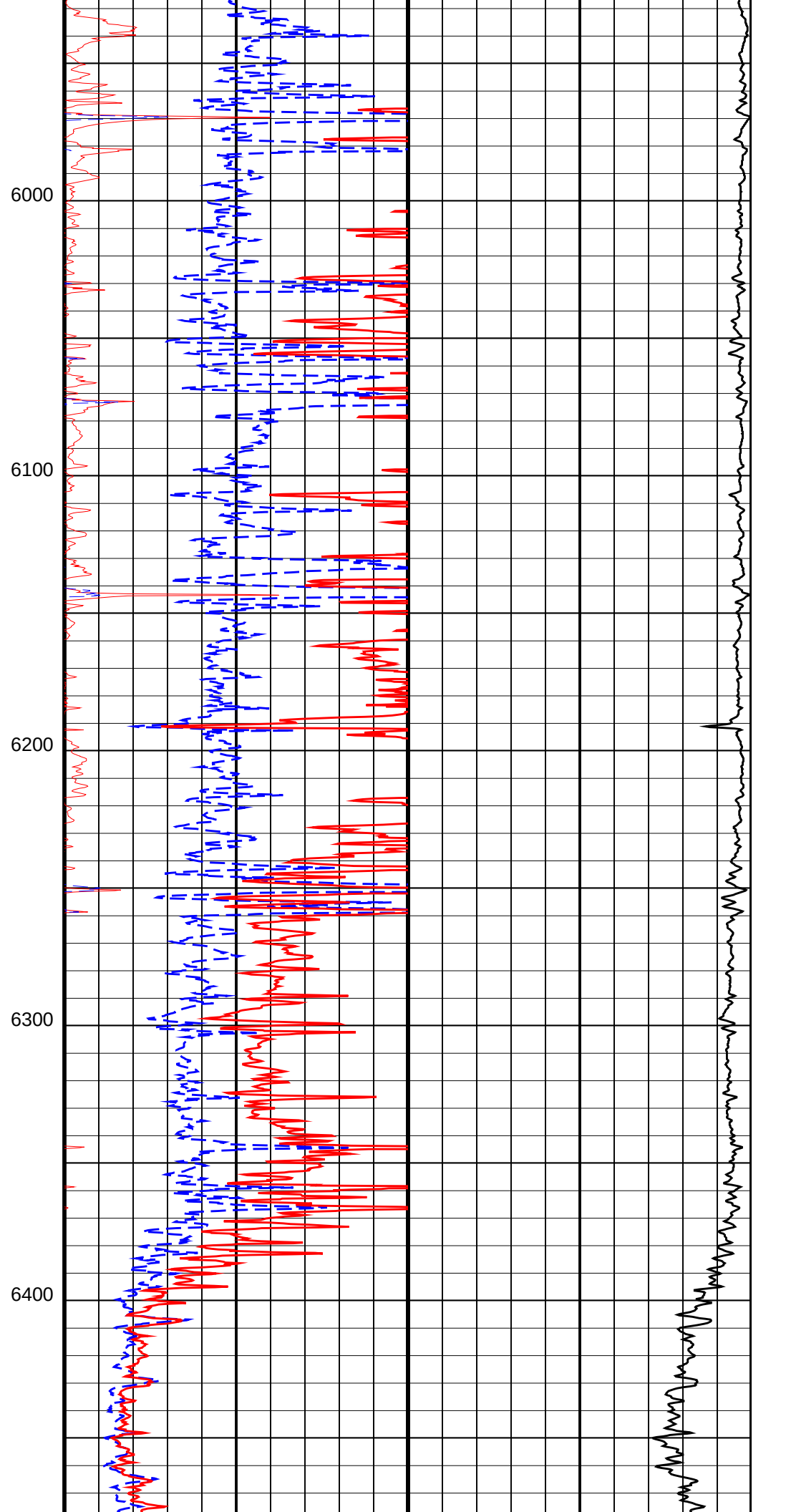
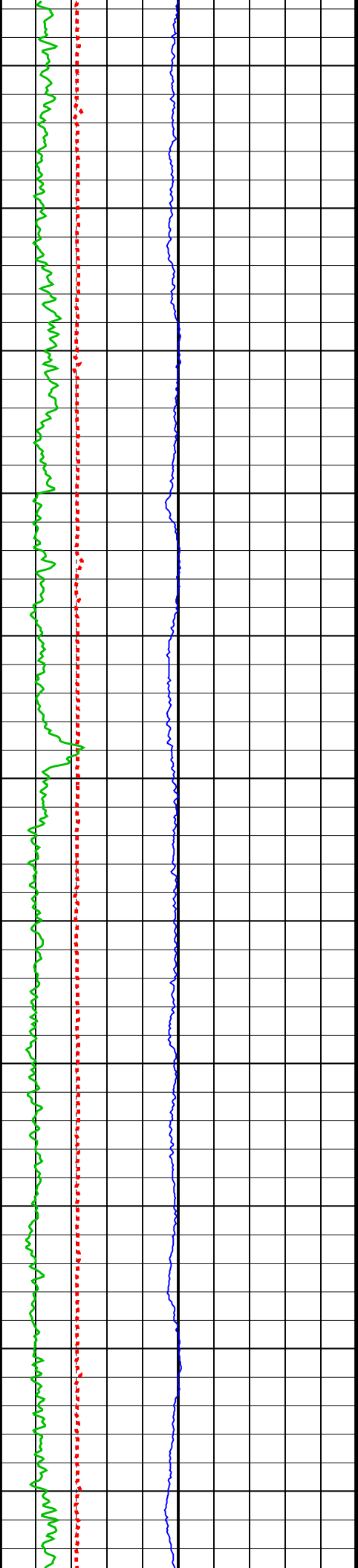
Company: SANDRIDGE ENERGY Well: OLIVER 3306 2-14H

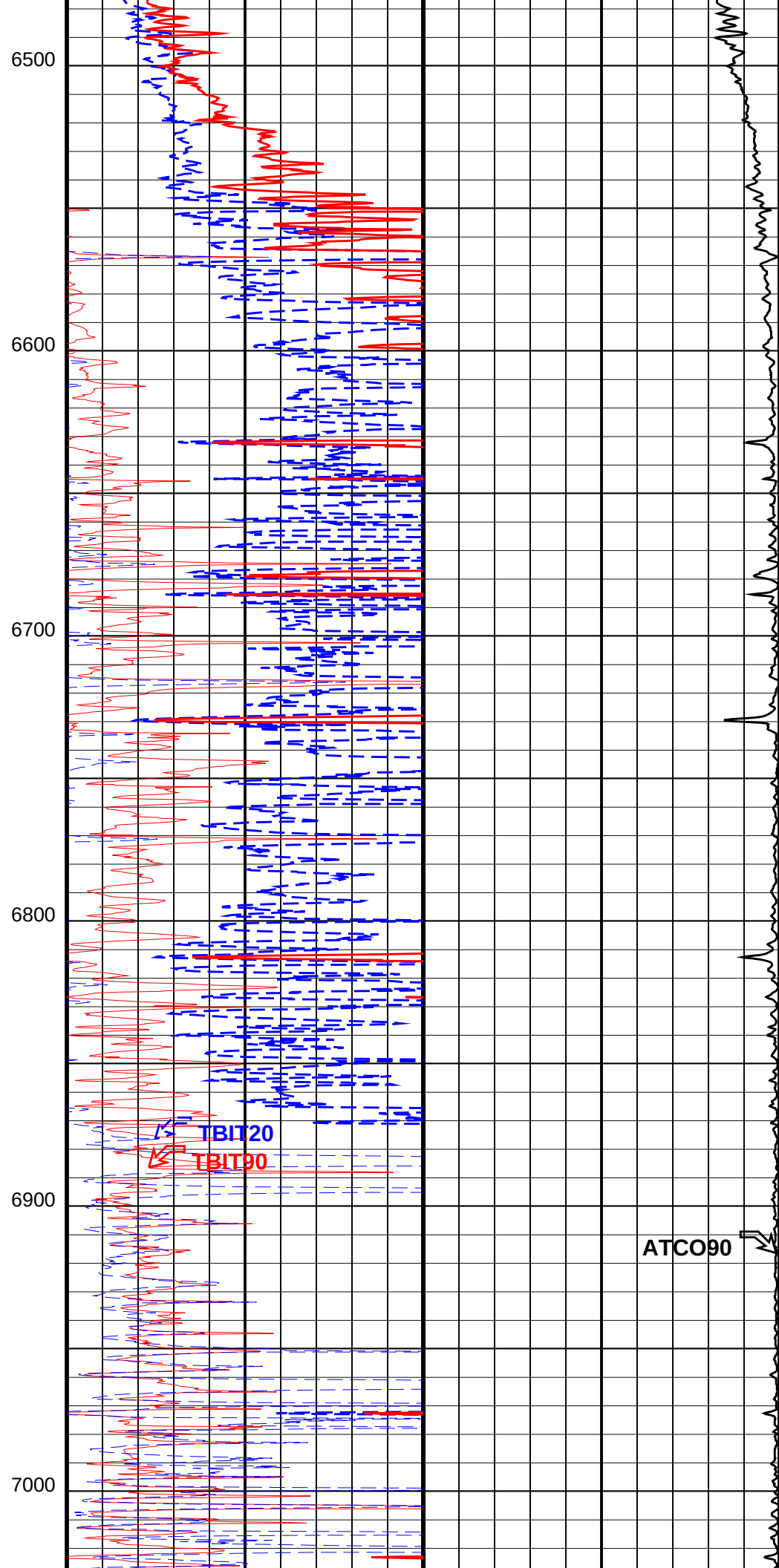
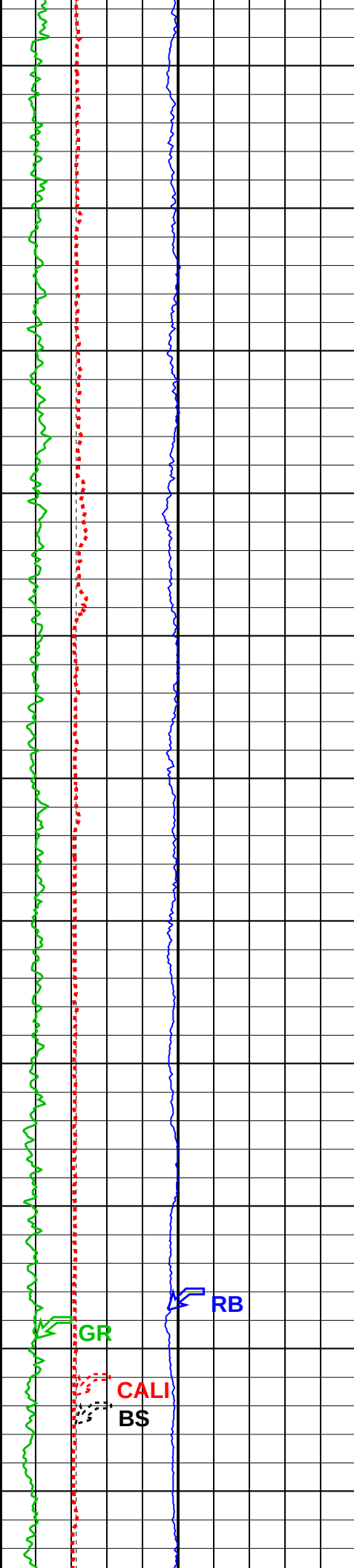
Input DLIS Files						
DEFAULT	ThruBit_009PUP	FN:8	PRODUCER	03-Apr-2014 23:46	7077.5 FT	2531.0 FT
Output DLIS Files						
	TBT .010	FN:9		03-Apr-2014 23:51	7077.5 FT	5385.5 FT

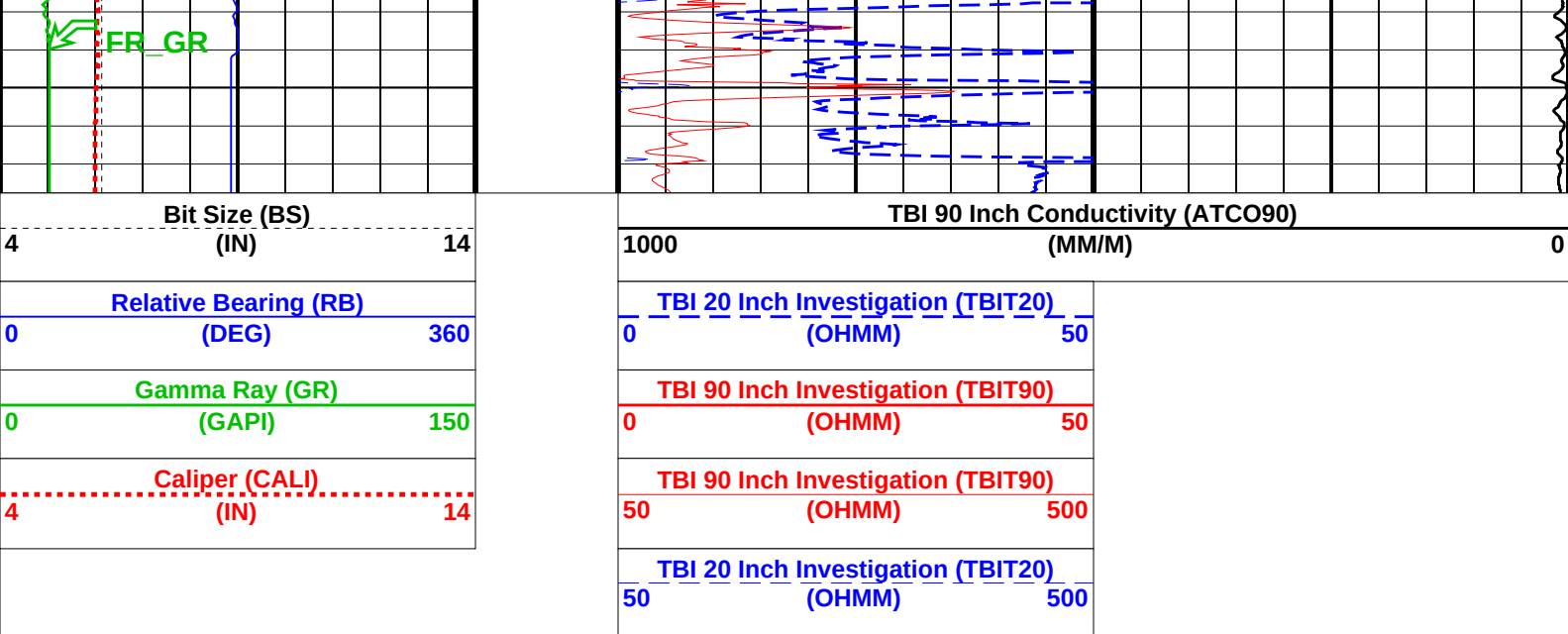
OP System Version: 19C2-270	
TBT	SRPC-5292-ThruBit_RevA

Caliper (CALI) (IN) Gamma Ray (GR) (GAPI) Relative Bearing (RB) (DEG) Bit Size (BS)	TBI 20 Inch Investigation (TBIT20) (OHMM)	
	50 500	
	TBI 90 Inch Investigation (TBIT90) (OHMM)	
	50 500	
	TBI 90 Inch Investigation (TBIT90) (OHMM)	
	0 50	
	TBI 20 Inch Investigation (TBIT20) (OHMM)	
	0 50	
TBI 90 Inch Conductivity (ATCO90)		









Parameters		
DLIS Name	Description	Value
TBT-A: ThruBit String		
MT	Mud Type (for TBN and TBI correction)	WBM
RB_OFFSET	Additional RB offset (degrees)	0.000 deg
TBI_ALGO	TBI Algorithm Selection	AIT
TBI_BHC_OP	Borehole Correction Option (for TBI)	CALIPER
TBI_CALTYP	TBI Mastercal Type	THRUBIT
TBI_REPL_ARRAY_DEST	TBI: Replace This Array	NONE
TBI_REPL_ARRAY_SOURCE	TBI: With This Array	NONE
TBI_TC_OP	Induction Temperature Correction Option	LOWER
System and Miscellaneous		
BS	Bit Size	6.125 in

Format: TB_2INCH_RESISTIVITY Vertical Scale: 2" per 100' Graphics File Created: 03-Apr-2014 23:51

OP System Version: 19C2-270

TBT SRPC-5292-ThruBit_RevA

Input DLIS Files						
DEFAULT	ThruBit_009PUP	FN:8	PRODUCER	03-Apr-2014 23:46	7077.5 FT	2531.0 FT
Output DLIS Files						
	TBT .010	FN:9		03-Apr-2014 23:51		

MAIN PASS

MAXIS Field Log

Company: SANDRIDGE ENERGY Well: OLIVER 3306 2-14H

Input DLIS Files						
DEFAULT	ThruBit_009PUP	FN:8	PRODUCER	03-Apr-2014 23:46	7077.5 FT	2531.0 FT

Output DLIS Files

TBT .010

FN:9

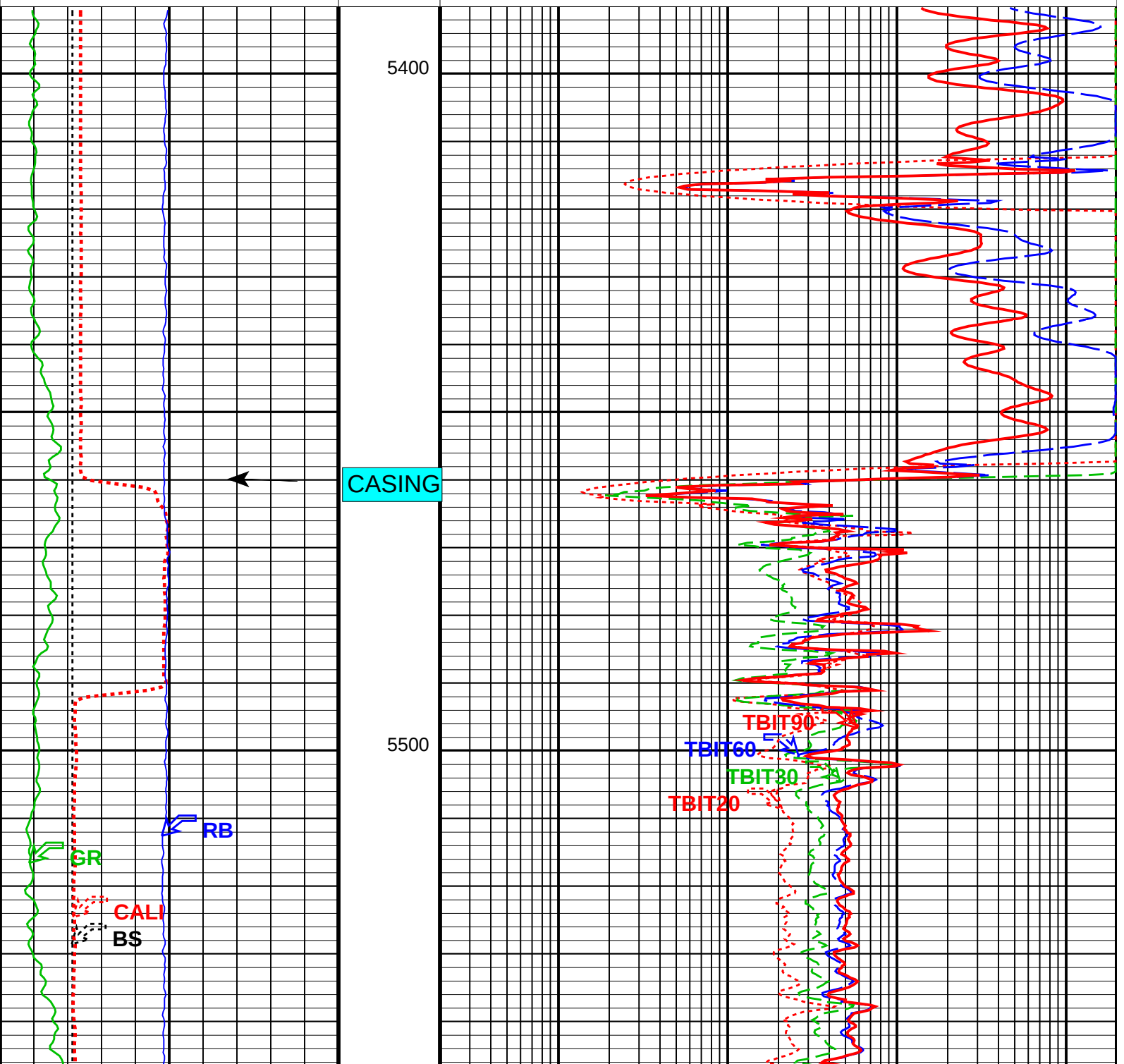
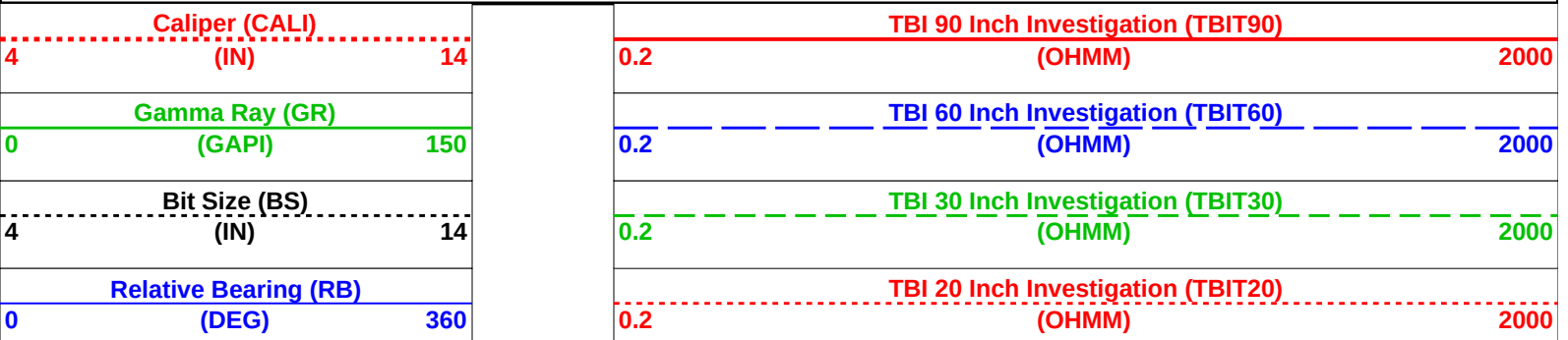
03-Apr-2014 23:51

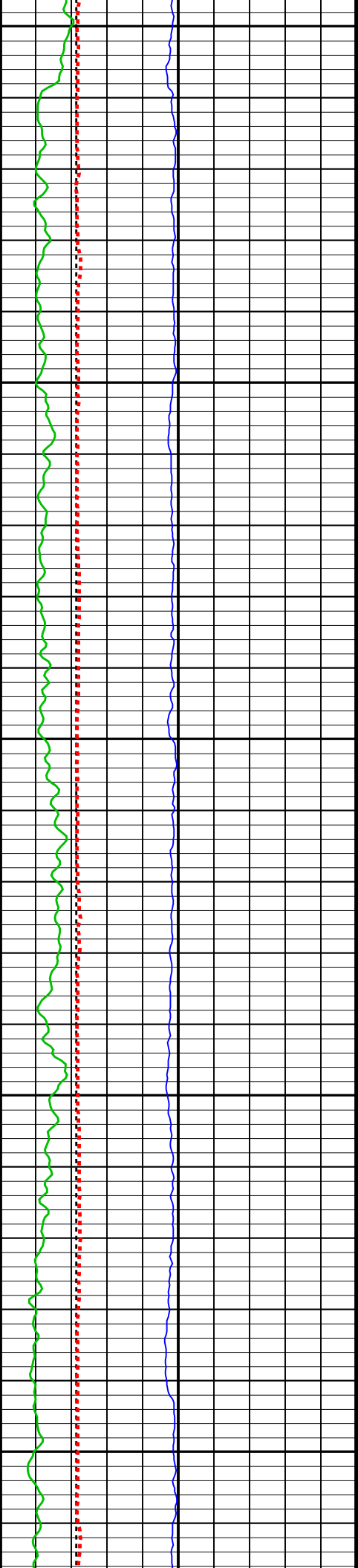
7077.5 FT

5385.5 FT

OP System Version: 19C2-270

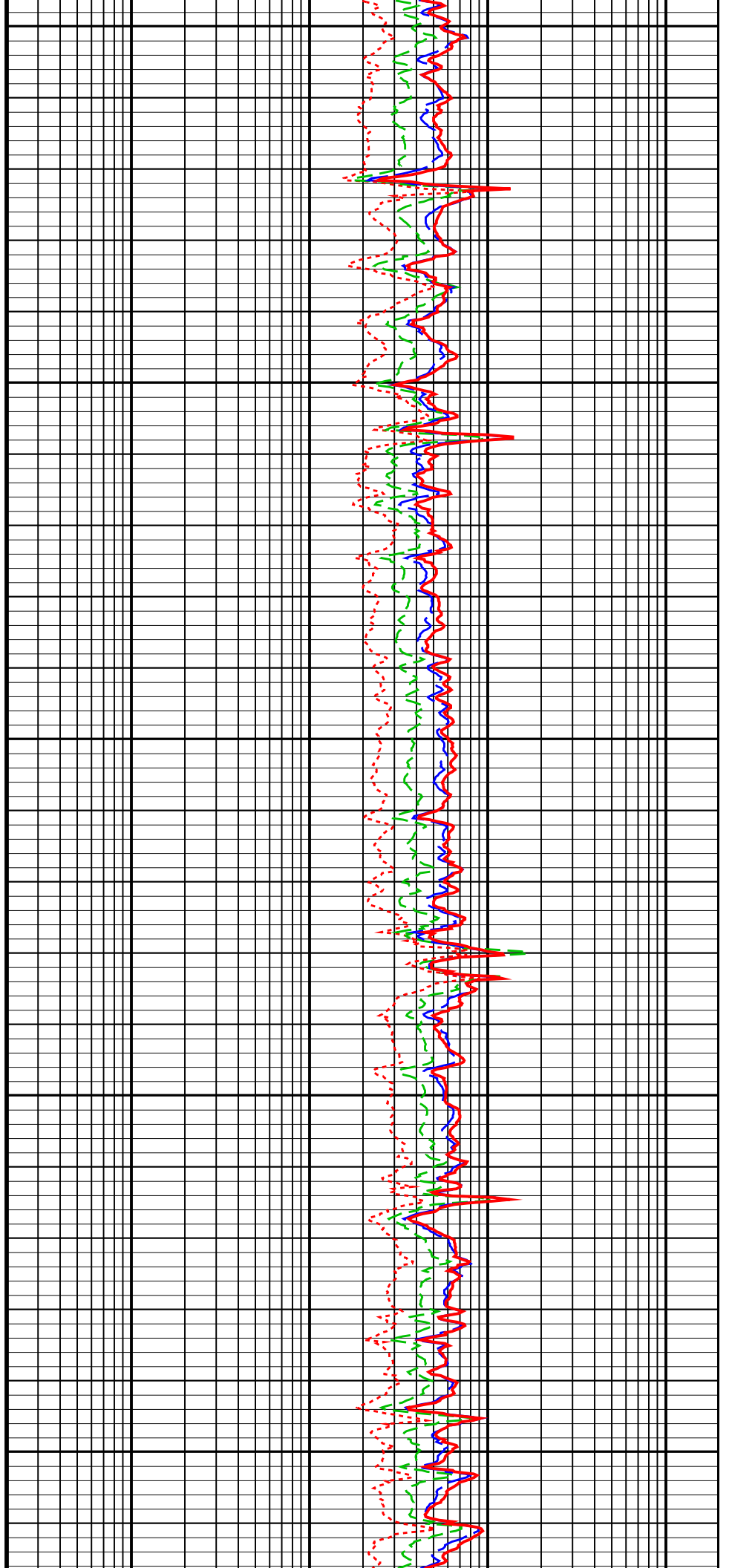
TBT SRPC-5292-ThruBit_RevA

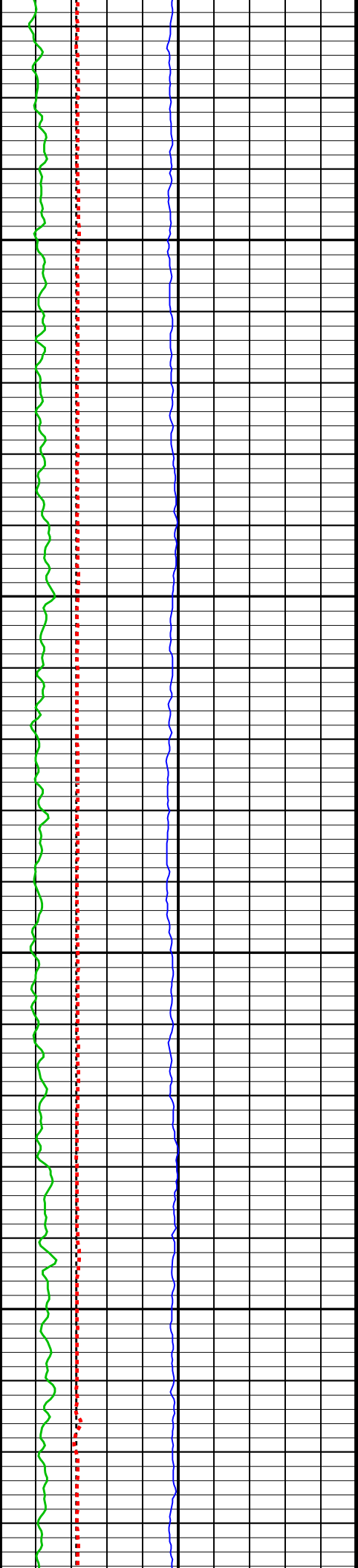




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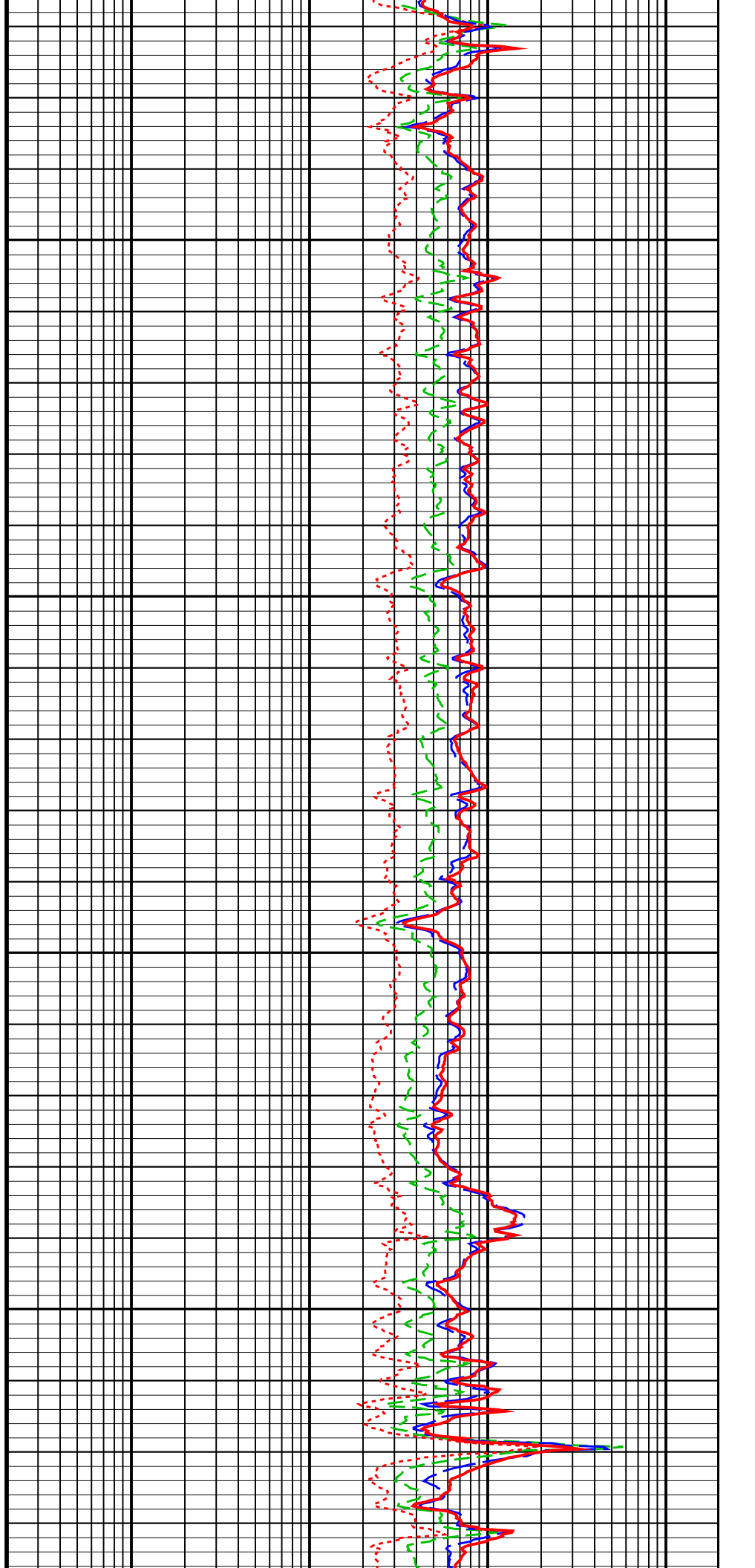
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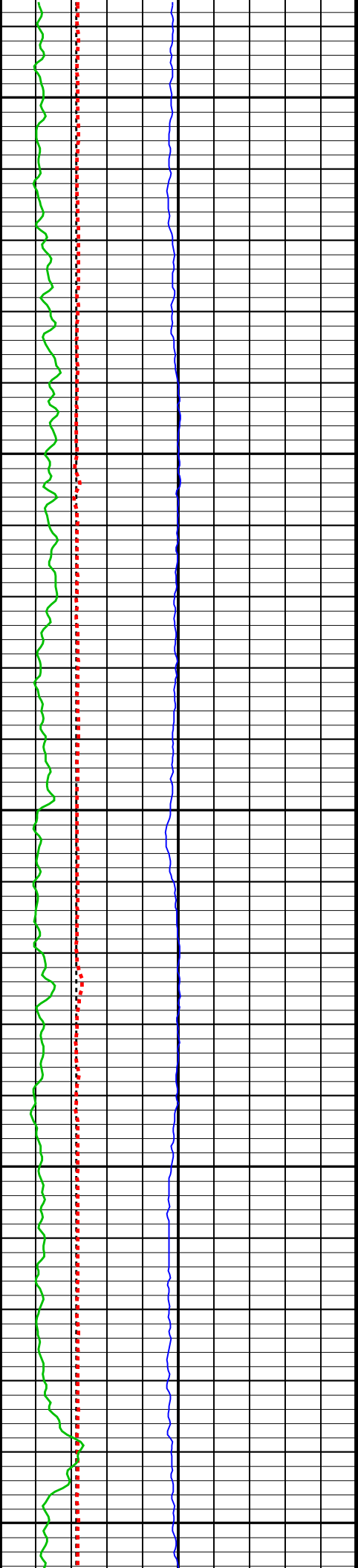




5800

5900

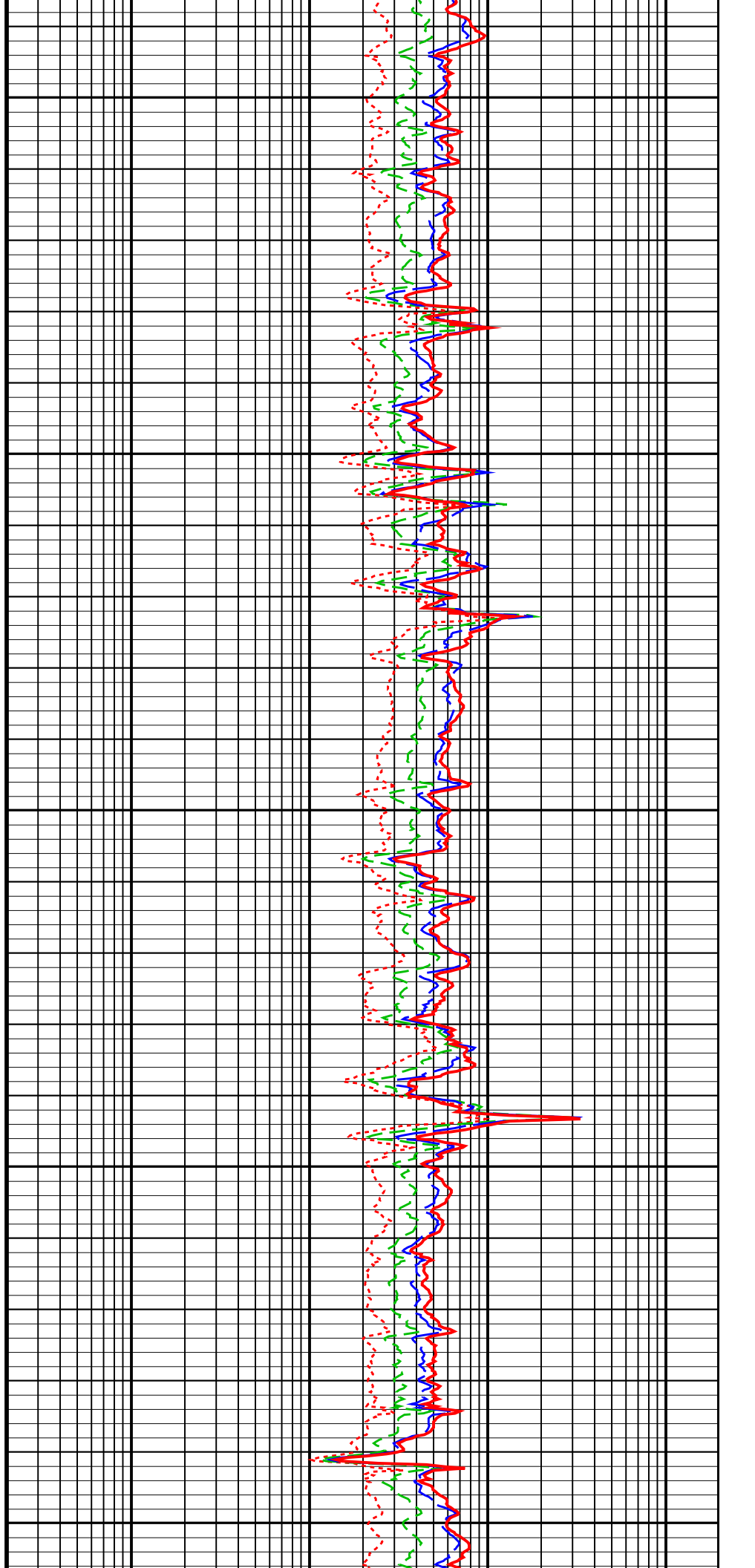


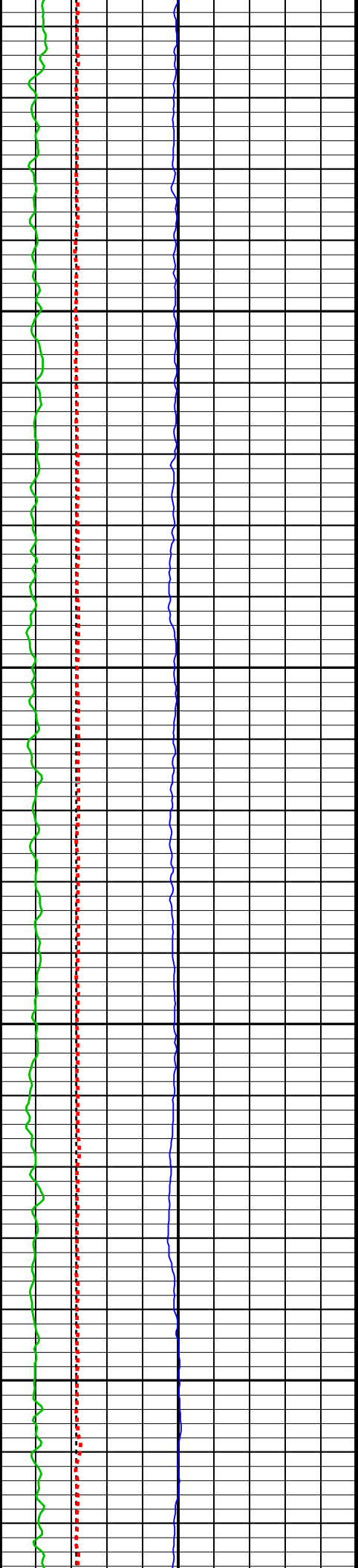


6000

6100

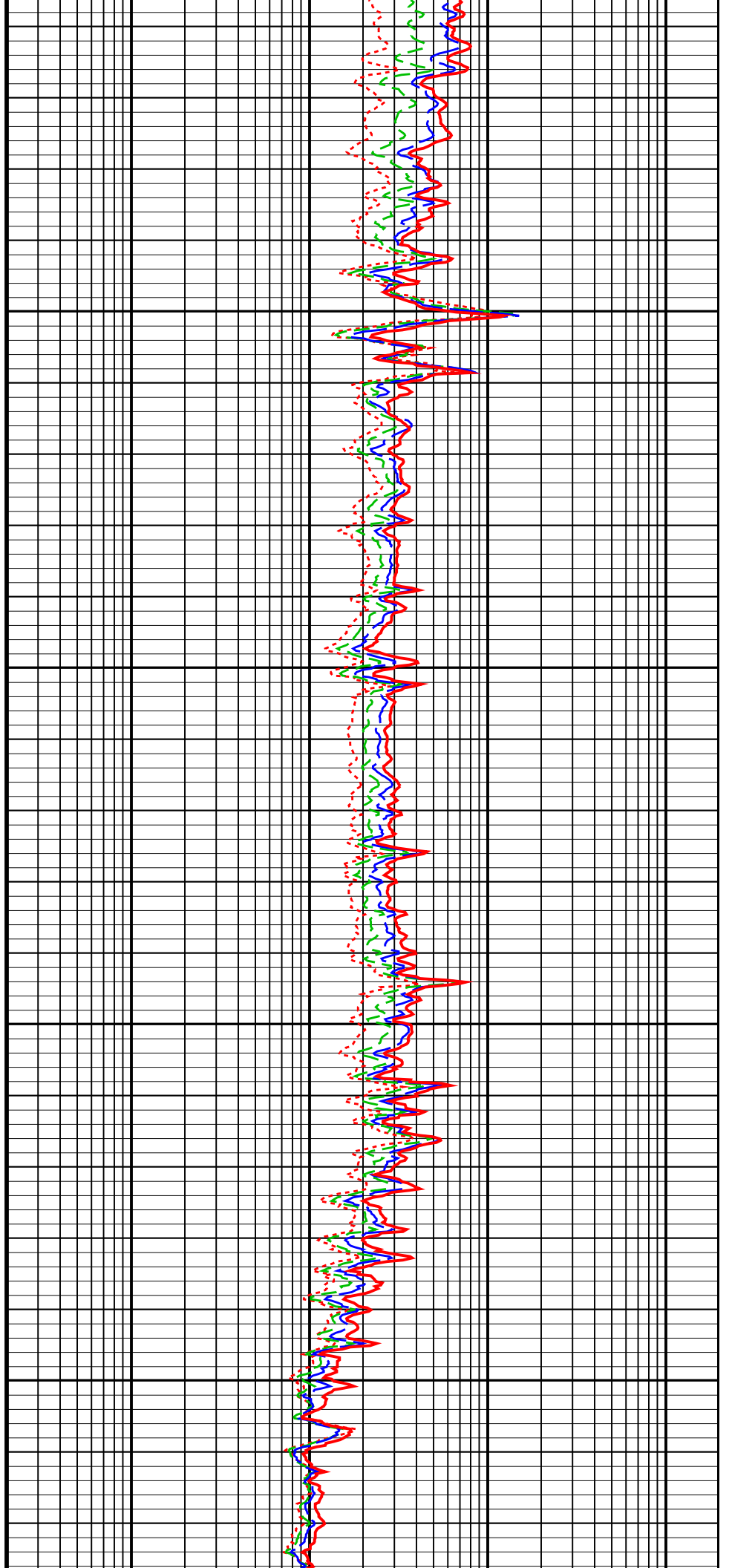
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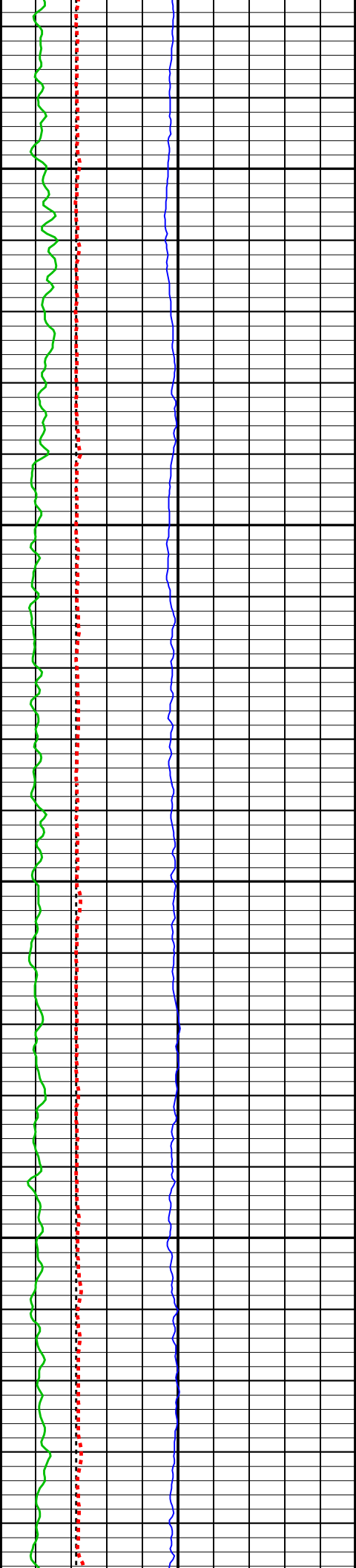




6300

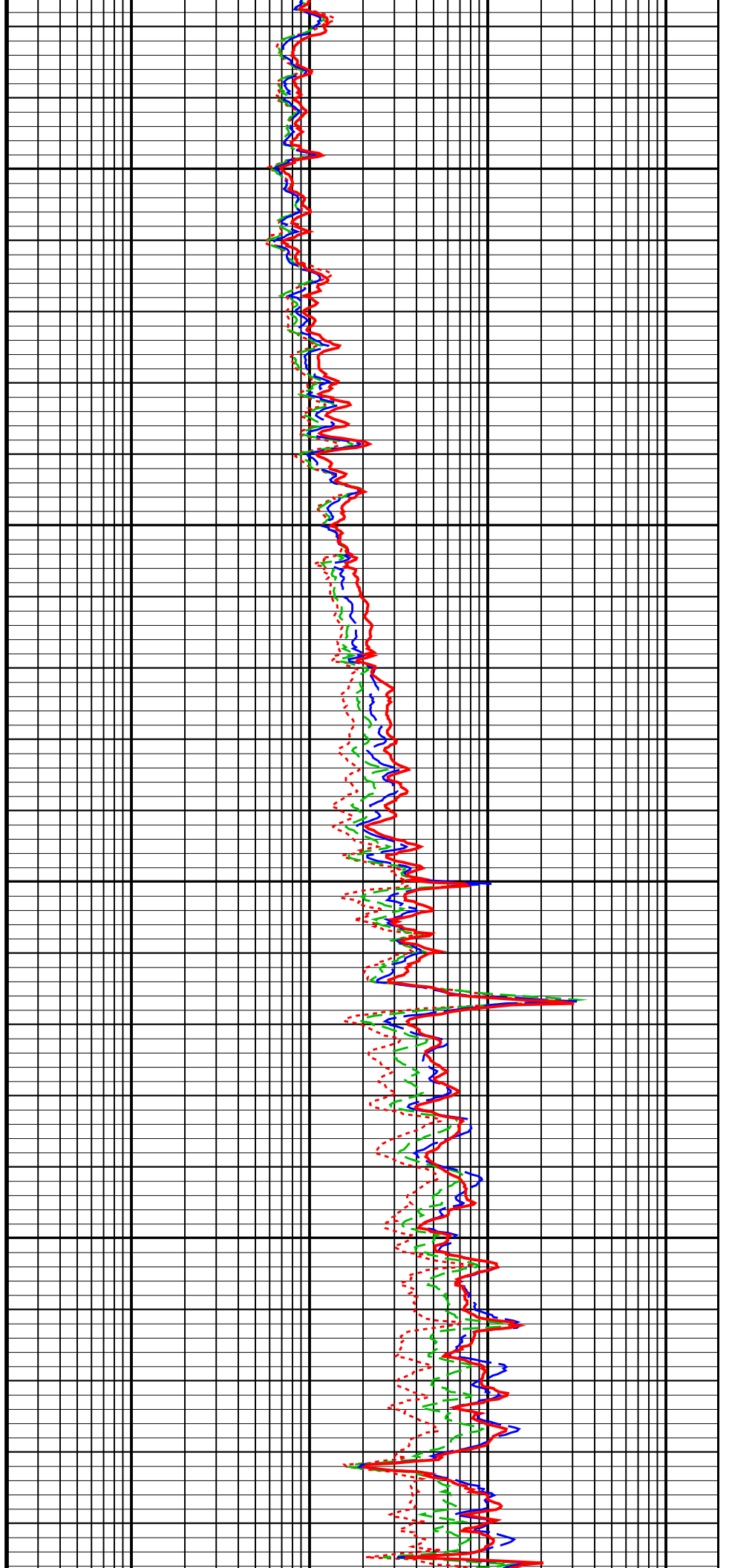
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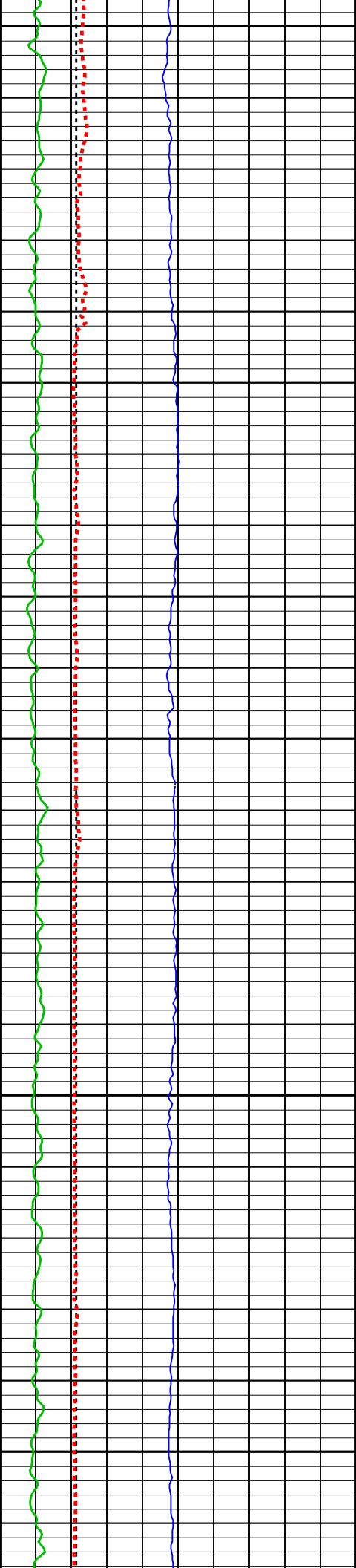




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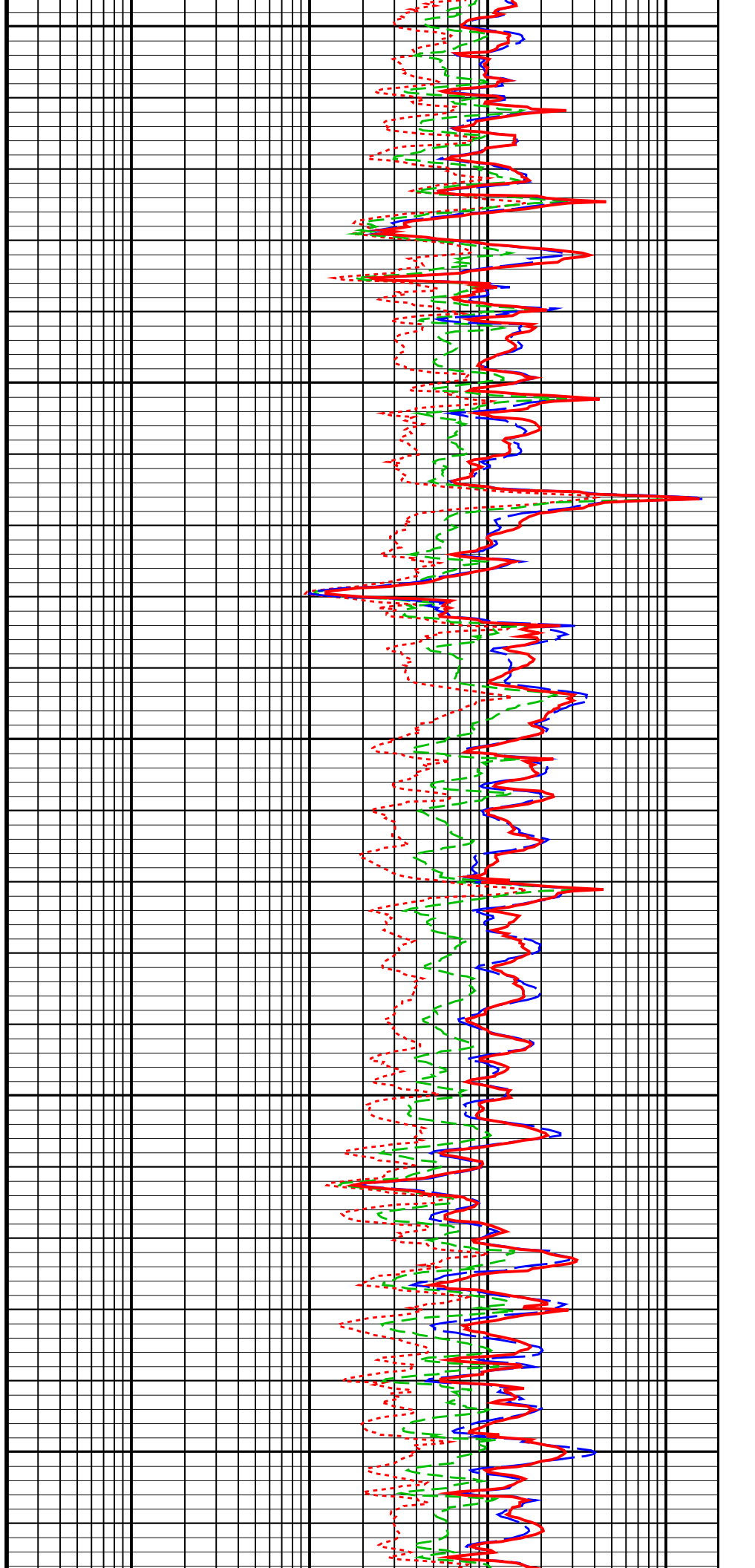
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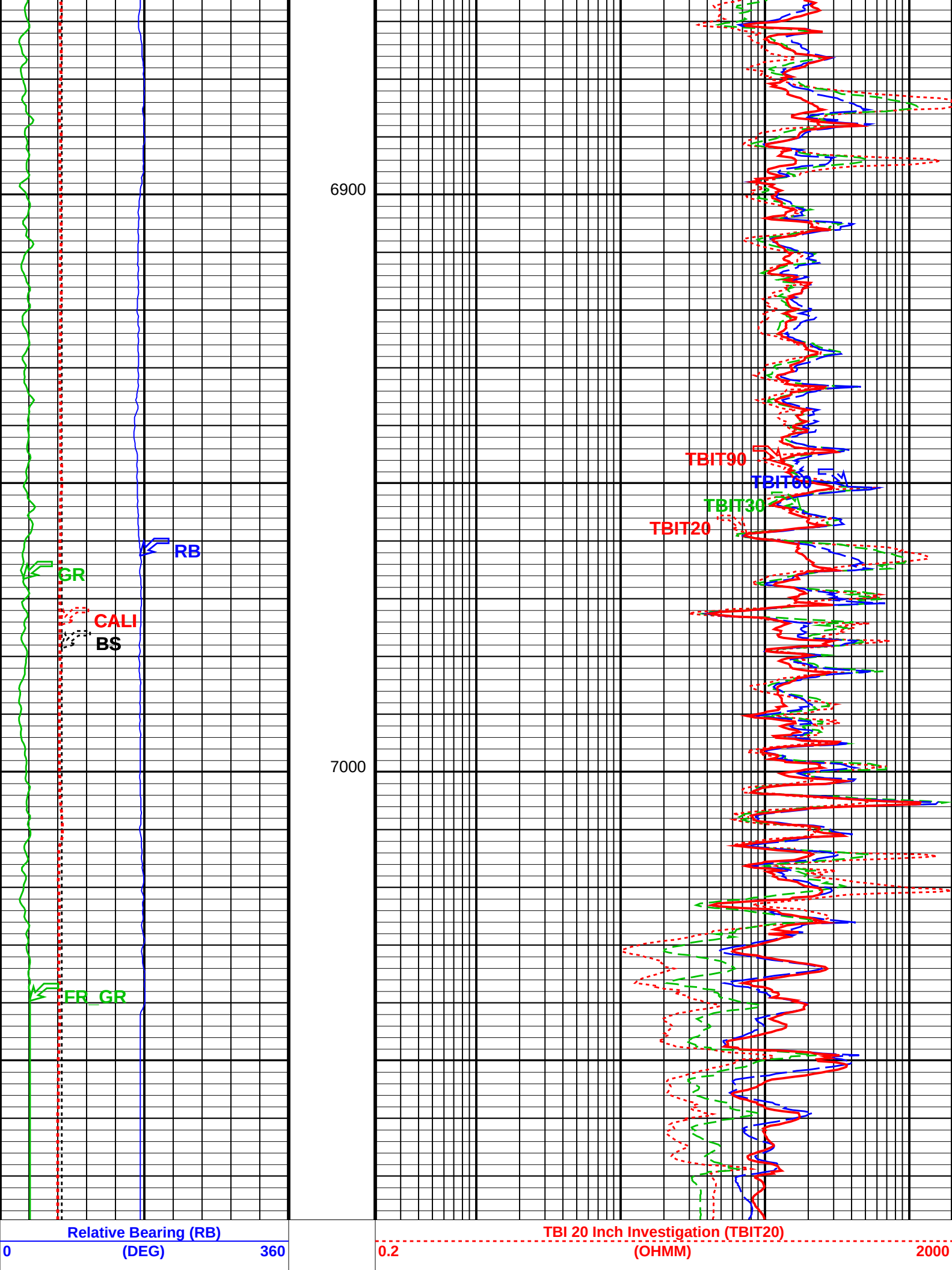




6700

6800





Bit Size (BS)		TBI 30 Inch Investigation (TBIT30)	
4	(IN)	14	0.2 (OHMM) 2000
Gamma Ray (GR)		TBI 60 Inch Investigation (TBIT60)	
0	(GAPI)	150	0.2 (OHMM) 2000
Caliper (CALI)		TBI 90 Inch Investigation (TBIT90)	
4	(IN)	14	0.2 (OHMM) 2000

Parameters			
DLIS Name	Description	Value	
TBT-A: ThruBit String			
MT	Mud Type (for TBN and TBI correction)	WBM	
RB_OFFSET	Additional RB offset (degrees)	0.000	deg
TBI_ALGO	TBI Algorithm Selection	AIT	
TBI_BHC_OP	Borehole Correction Option (for TBI)	CALIPER	
TBI_CALTYP	TBI Mastercal Type	THRUBIT	
TBI_REPL_ARRAY_DEST	TBI: Replace This Array	NONE	
TBI_REPL_ARRAY_SOURCE	TBI: With This Array	NONE	
TBI_TC_OP	Induction Temperature Correction Option	LOWER	
System and Miscellaneous			
BS	Bit Size	6.125	in

Format: TB_5INCH_RESISTIVITY

Vertical Scale: 5" per 100'

Graphics File Created: 03-Apr-2014 23:51

OP System Version: 19C2-270						
TBT	SRPC-5292-ThruBit_RevA					
Input DLIS Files						
DEFAULT	ThruBit_009PUP	FN:8	PRODUCER	03-Apr-2014 23:46	7077.5 FT	2531.0 FT
Output DLIS Files						
	TBT .010	FN:9		03-Apr-2014 23:51		

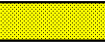
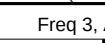


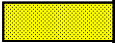
CALIBRATIONS

MAXIS Field Log

ThruBit String / Equipment Identification			
Primary Equipment:			
Induction Resistivity	TBI - A	25	
Density	TBD - A	24	
Gamma-Ray Logging Source	GGLS - FZ		
Thermal Neutron	TBN - A	27	
Neutron Logging Source	NNLS - EWA		
Telemetry Memory GR	TMG - A	39	
Battery	TBAT -	30	0
Battery	TBAT -	29	0
Auxiliary Equipment:			

ThruBit String Master Calibration					
TBI Master Calibration Sonde Errors					
Freq 1, A1, R	Value	Nominal	Freq 1, A1, X	Value	Nominal

	-465.430	-457.000		-120.608	300.000
-536.000 (Minimum)	(Nominal)	-387.000 (Maximum)	-500.000 (Minimum)	(Nominal)	1100.00 (Maximum)
Freq 1, A2, R	Value	Nominal	Freq 1, A2, X	Value	Nominal
	-144.586	-141.000		99.9810	320.000
-162.000 (Minimum)	(Nominal)	-120.000 (Maximum)	-75.0000 (Minimum)	(Nominal)	700.000 (Maximum)
Freq 1, A3, R	Value	Nominal	Freq 1, A3, X	Value	Nominal
	-33.0525	-28.0000		-57.2370	50.0000
-38.0000 (Minimum)	(Nominal)	-18.0000 (Maximum)	-375.000 (Minimum)	(Nominal)	475.000 (Maximum)
Freq 1, A4, R	Value	Nominal	Freq 1, A4, X	Value	Nominal
	-15.7993	-16.0000		250.421	300.000
-24.0000 (Minimum)	(Nominal)	-8.00000 (Maximum)	25.0000 (Minimum)	(Nominal)	575.000 (Maximum)
Freq 1, A5, R	Value	Nominal	Freq 1, A5, X	Value	Nominal
	-13.4534	-14.0000		101.638	150.000
-21.0000 (Minimum)	(Nominal)	-7.00000 (Maximum)	25.0000 (Minimum)	(Nominal)	275.000 (Maximum)
Freq 2, A1, R	Value	Nominal	Freq 2, A1, X	Value	Nominal
	-240.941	-237.000		-111.717	150.000
-293.000 (Minimum)	(Nominal)	-186.000 (Maximum)	-375.000 (Minimum)	(Nominal)	675.000 (Maximum)
Freq 2, A2, R	Value	Nominal	Freq 2, A2, X	Value	Nominal
	-92.7280	-92.0000		36.4069	160.000
-106.000 (Minimum)	(Nominal)	-76.0000 (Maximum)	-100.000 (Minimum)	(Nominal)	425.000 (Maximum)
Freq 2, A3, R	Value	Nominal	Freq 2, A3, X	Value	Nominal
	-24.6867	-21.0000		-86.4375	-20.0000
-28.0000 (Minimum)	(Nominal)	-13.0000 (Maximum)	-325.000 (Minimum)	(Nominal)	250.000 (Maximum)
Freq 2, A4, R	Value	Nominal	Freq 2, A4, X	Value	Nominal
	-18.9136	-20.0000		83.1206	100.000
-28.0000 (Minimum)	(Nominal)	-10.0000 (Maximum)	-75.0000 (Minimum)	(Nominal)	275.000 (Maximum)
Freq 2, A5, R	Value	Nominal	Freq 2, A5, X	Value	Nominal
	-18.5799	-20.0000		-25.7558	-25.0000
-27.0000 (Minimum)	(Nominal)	-10.0000 (Maximum)	-125.000 (Minimum)	(Nominal)	75.0000 (Maximum)
Freq 3, A1, R	Value	Nominal	Freq 3, A1, X	Value	Nominal
	-151.531	-149.000		-154.008	25.0000
-193.000 (Minimum)	(Nominal)	-108.000 (Maximum)	-375.000 (Minimum)	(Nominal)	425.000 (Maximum)
Freq 3, A2, R	Value	Nominal	Freq 3, A2, X	Value	Nominal
	-70.5214	-70.0000		-15.7097	70.0000
-81.0000 (Minimum)	(Nominal)	-57.0000 (Maximum)	-125.000 (Minimum)	(Nominal)	250.000 (Maximum)
Freq 3, A3, R	Value	Nominal	Freq 3, A3, X	Value	Nominal
	-20.3600	-17.0000		-118.966	-90.0000
-23.0000 (Minimum)	(Nominal)	-11.0000 (Maximum)	-300.000 (Minimum)	(Nominal)	125.000 (Maximum)
Freq 3, A4, R	Value	Nominal	Freq 3, A4, X	Value	Nominal
	-20.4809	-22.0000		-27.1452	-50.0000
-31.0000 (Minimum)	(Nominal)	-11.0000 (Maximum)	-200.000 (Minimum)	(Nominal)	100.000 (Maximum)
Freq 3, A5, R	Value	Nominal	Freq 3, A5, X	Value	Nominal
	-20.9971	-22.0000		-120.075	-110.000
-32.0000 (Minimum)	(Nominal)	-11.0000 (Maximum)	-250.000 (Minimum)	(Nominal)	-25.0000 (Maximum)
Freq 4, A1, R	Value	Nominal	Freq 4, A1, X	Value	Nominal
	-81.3526	-80.0000		-257.264	-190.000
-108.000 (Minimum)	(Nominal)	-54.0000 (Maximum)	-450.000 (Minimum)	(Nominal)	75.0000 (Maximum)
Freq 4, A2, R	Value	Nominal	Freq 4, A2, X	Value	Nominal

		-50.6194	-50.0000			-96.1684	-75.0000
-60.0000 (Minimum)	(Nominal)	-41.0000 (Maximum)		-200.000 (Minimum)	(Nominal)	50.0000 (Maximum)	
Freq 4, A3, R		Value	Nominal	Freq 4, A3, X		Value	Nominal
		-16.7578	-14.0000			-181.306	-190.000
-19.0000 (Minimum)	(Nominal)	-8.0000 (Maximum)		-350.000 (Minimum)	(Nominal)	-25.0000 (Maximum)	
Freq 4, A4, R		Value	Nominal	Freq 4, A4, X		Value	Nominal
		-23.4425	-25.0000			-188.783	-235.000
-37.0000 (Minimum)	(Nominal)	-11.0000 (Maximum)		-400.000 (Minimum)	(Nominal)	-75.0000 (Maximum)	
Freq 4, A5, R		Value	Nominal	Freq 4, A5, X		Value	Nominal
		-26.3620	-28.0000			-280.695	-300.000
-43.0000 (Minimum)	(Nominal)	-12.0000 (Maximum)		-475.000 (Minimum)	(Nominal)	-125.000 (Maximum)	
Master: 16-Jan-2014 10:00							

ThruBit String Master Calibration							
TBI Master Calibration COMPLEX GAINS							
Freq 1, R		Value	Nominal	Freq 1, X		Value	Nominal
		0.9910	1.000			-0.002016	0
		0.9856	1.000			0.0003740	0
		0.9923	1.000			-0.006785	0
		0.9844	1.000			0.004711	0
		0.9930	1.000			0.0009287	0
0.9500 (Minimum)	(Nominal)	1.050 (Maximum)		-0.05000 (Minimum)	(Nominal)	0.05000 (Maximum)	
Freq 2, R		Value	Nominal	Freq 2, X		Value	Nominal
		0.9867	1.000			-0.01021	0
		0.9806	1.000			-0.007859	0
		0.9817	1.000			-0.007923	0
		0.9801	1.000			-0.003088	0
		0.9912	1.000			-0.009475	0
0.9500 (Minimum)	(Nominal)	1.050 (Maximum)		-0.05000 (Minimum)	(Nominal)	0.05000 (Maximum)	
Freq 3, R		Value	Nominal	Freq 3, X		Value	Nominal
		0.9918	1.000			-0.006593	0
		0.9858	1.000			-0.004282	0
		0.9867	1.000			-0.004736	0
		0.9833	1.000			0.0005233	0
		0.9977	1.000			-0.006462	0
0.9500 (Minimum)	(Nominal)	1.050 (Maximum)		-0.05000 (Minimum)	(Nominal)	0.05000 (Maximum)	
Freq 4, R		Value	Nominal	Freq 4, X		Value	Nominal
		0.9874	1.000			0.01570	0
		0.9811	1.000			0.01711	0
		0.9842	1.000			0.01431	0
		0.9766	1.000			0.02269	0
		1.006	1.000			0.01184	0
0.9300 (Minimum)	(Nominal)	1.070 (Maximum)		-0.05000 (Minimum)	(Nominal)	0.05000 (Maximum)	
Master: 16-Jan-2014 10:00							

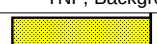
ThruBit String Master Calibration								
TBD Caliper Master Calibration								
Caliper 12in Ring IN	Value	Nominal	Caliper 9in Ring IN	Value	Nominal	Caliper 6in Ring IN	Value	Nominal
	1896.4	1949.8		2056.1	2096.7		2210.8	2285.7

1799.8 (Minimum)	(Nominal)	2099.8 (Maximum)		1946.7 (Minimum)	(Nominal)	2246.7 (Maximum)		2135.7 (Minimum)	(Nominal)	2435.7 (Maximum)	
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Master: 15-Mar-2014 16:25

ThruBit String Master Calibration					
TBD Density Master Calibration. PEEK Window, Thrubit blocks					
Aluminium Density G/C3	Value	Nominal	Magnesium Density G/C3	Value	Nominal
	2.607	2.607		1.752	1.752
2.557 (Minimum)	(Nominal)	2.657 (Maximum)	1.702 (Minimum)	(Nominal)	1.802 (Maximum)
LS1 Background CPS	Value	Nominal	SS1 Background CPS	Value	Nominal
	140.87	150.00		156.41	150.00
130.00 (Minimum)	(Nominal)	170.00 (Maximum)	130.00 (Minimum)	(Nominal)	170.00 (Maximum)
LS4 Background CPS	Value	Nominal	SS1 Aluminium CPS	Value	Nominal
	30.48	31.00	EXCEEDS LIMIT	4234.44	4900.00
27.00 (Minimum)	(Nominal)	35.00 (Maximum)	4500.00 (Minimum)	(Nominal)	5500.00 (Maximum)
LS1 Aluminium CPS	Value	Nominal	SS1 Magnesium CPS	Value	Nominal
	831.41	850.00	EXCEEDS LIMIT	6996.90	8000.00
750.00 (Minimum)	(Nominal)	950.00 (Maximum)	7000.00 (Minimum)	(Nominal)	9000.00 (Maximum)
LS4 Aluminium CPS	Value	Nominal			
	967.84	955.00			
843.00 (Minimum)	(Nominal)	1068.0 (Maximum)			
LS1 Al + Sleeve CPS	Value	Nominal			
	748.66	725.00			
650.00 (Minimum)	(Nominal)	800.00 (Maximum)			
LS4 Al + Sleeve CPS	Value	Nominal			
EXCEEDS LIMIT	479.98	426.50			
382.00 (Minimum)	(Nominal)	471.00 (Maximum)			
LS1 Magnesium CPS	Value	Nominal			
	5379.44	5750.00			
5250.00 (Minimum)	(Nominal)	6250.00 (Maximum)			
SS Slope	Value	Nominal			
	1.634	1.645			
1.520 (Minimum)	(Nominal)	1.770 (Maximum)			
LS Slope	Value	Nominal			
	0.4188	0.4150			
0.3800 (Minimum)	(Nominal)	0.4500 (Maximum)			
Pef K Factor	Value	Nominal			
	4.924	4.840			
3.510 (Minimum)	(Nominal)	6.170 (Maximum)			
Pef B Factor	Value	Nominal			
	-0.6690	-0.5550			
-0.7000 (Minimum)	(Nominal)	-0.4100 (Maximum)			

Master: 15-Mar-2014 16:18

ThruBit String Master Calibration					
Thermal Neutron Master Calibration					
TNF, Background CPS	Value	Nominal	TNN, Background CPS	Value	Nominal
	0.31	1.0		0.24	1.0
0 (Minimum)	(Nominal)	2.0 (Maximum)	0 (Minimum)	(Nominal)	2.0 (Maximum)
TNF, Tank CPS	Value	Nominal	TNN, Tank CPS	Value	Nominal
	70.73	96.00		2047.1	2860.0

25.00 (Minimum)	(Nominal)	200.0 (Maximum)		750.00 (Minimum)	(Nominal)	5700.0 (Maximum)	
TNF, Tank + AI Sleeve CPS			Value	Nominal	TNN, Tank + AI Sleeve CPS		
			2336.5	3040.0			
727.00 (Minimum)	(Nominal)	6080.0 (Maximum)		8000.00 (Minimum)	(Nominal)	64700.0 (Maximum)	
Tank + AI Sleeve Ratio			Value	Nominal	Tank + AI Sleeve Porosity PU		
			11.034	10.797			
10.300 (Minimum)	(Nominal)	11.300 (Maximum)		13.40 (Minimum)	(Nominal)	15.40 (Maximum)	
Tank, Ratio			Value	Nominal	Tank, Temperature DEGF		
			28.942	30.958			
28.000 (Minimum)	(Nominal)	34.000 (Maximum)		20.0 (Minimum)	(Nominal)	120 (Maximum)	
Master: 19-Mar-2014 14:34							

ThruBit String Master Calibration					
TMG Accelerometer Calibration					
Minimum Ax, m/s2		Value	Nominal	Maximum Ax, m/s2	
NOT DONE		N/A	-9.810	NOT DONE	
-10.81 (Minimum)	(Nominal)	-8.810 (Maximum)		8.810 (Minimum)	10.81 (Maximum)
Minimum Ay, m/s2		Value	Nominal	Maximum Ay, m/s2	
NOT DONE		N/A	-9.810	NOT DONE	
-10.81 (Minimum)	(Nominal)	-8.810 (Maximum)		8.810 (Minimum)	10.81 (Maximum)
Minimum Az, m/s2		Value	Nominal	Maximum Az, m/s2	
NOT DONE		N/A	0	NOT DONE	
-1.000 (Minimum)	(Nominal)	1.000 (Maximum)		8.810 (Minimum)	10.81 (Maximum)
RB Offset, degrees		Value	Nominal		
		-17.00	0		
-360.0 (Minimum)	(Nominal)	360.0 (Maximum)			
Master: Calibration not done					

ThruBit String Master Calibration					
TMG Gamma-Ray Calibration					
GR Background GAPI		Value	Nominal	GR Jig-Background GAPI	
		26.71	30.00		
0 (Minimum)	(Nominal)	120.0 (Maximum)		130.2 (Minimum)	195.2 (Maximum)
Master: 19-Mar-2014 15:34					

Company: **SANDRIDGE ENERGY**

Well: **OLIVER 3306 2-14H**

Field: **STOHRVILLE**

County: **HARPER**

State: **KANSAS**



ARRAY INDUCTION
GAMMA RAY

Schlumberger

MAIN PASS

MAXIS Field Log

Company: SANDRIDGE ENERGY

Well: OLIVER 3306 2-14H

Input DLIS Files

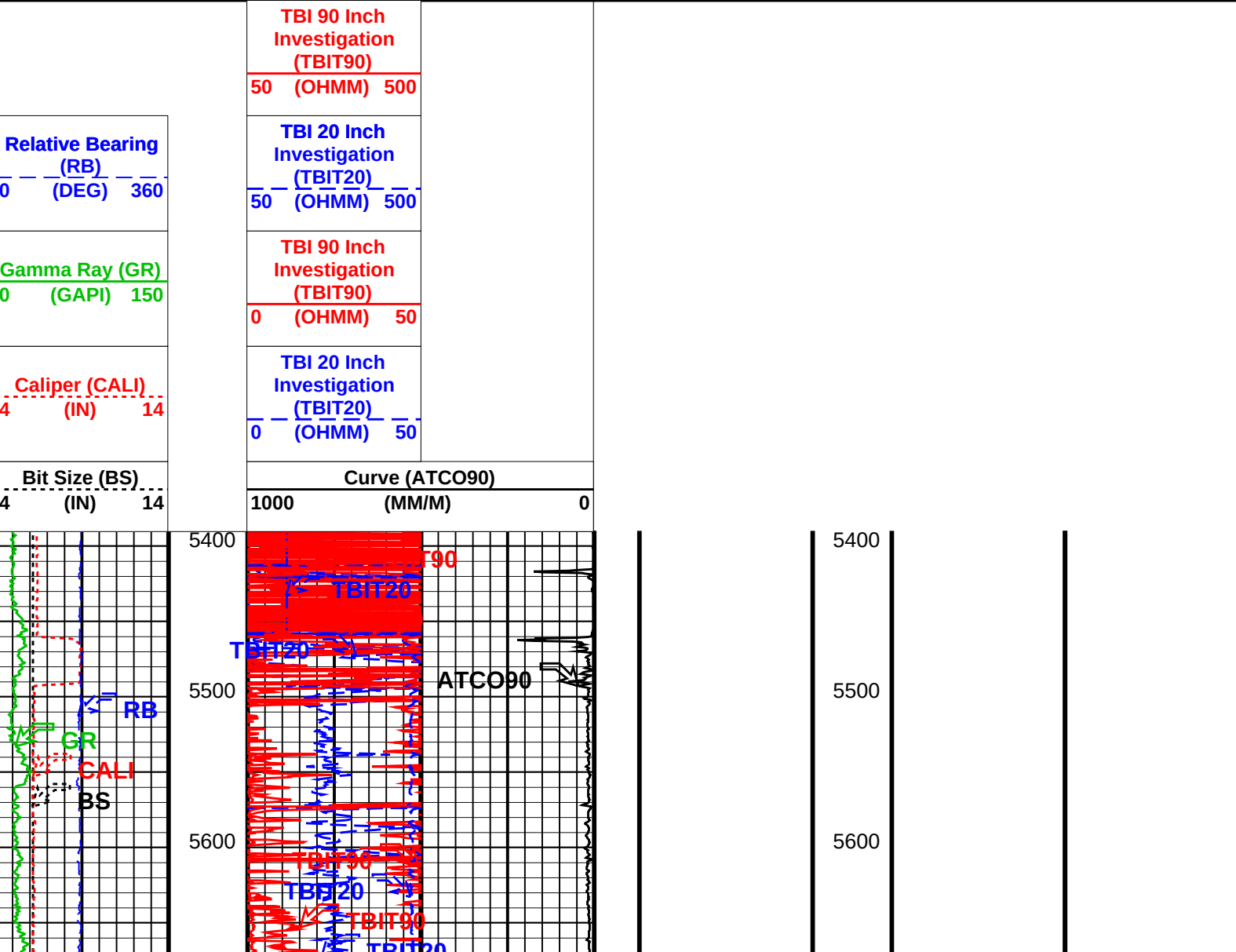
DEFAULT ThruBit_009PUP FN:8 PRODUCER 03-Apr-2014 23:46 7077.5 FT 2531.0 FT

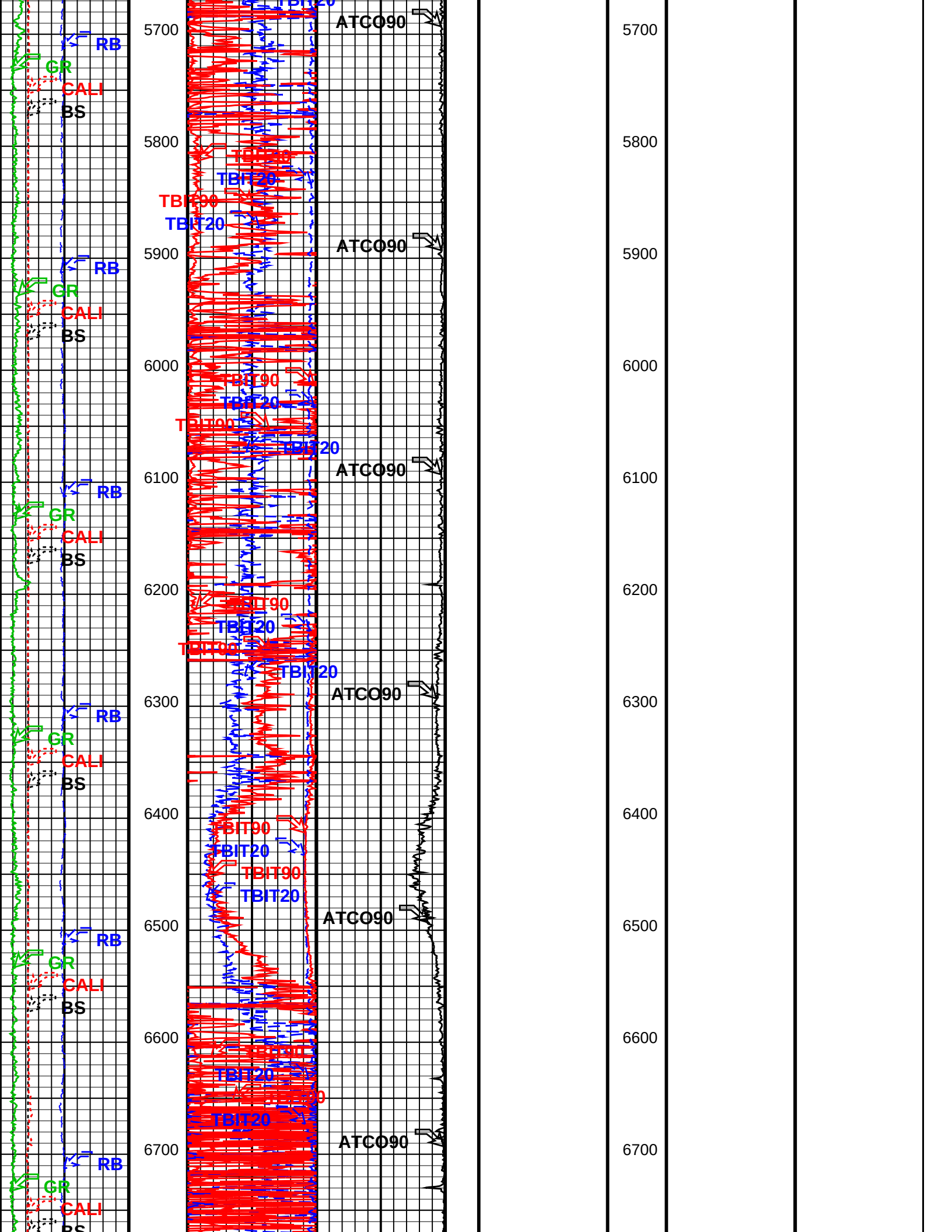
Output DLIS Files

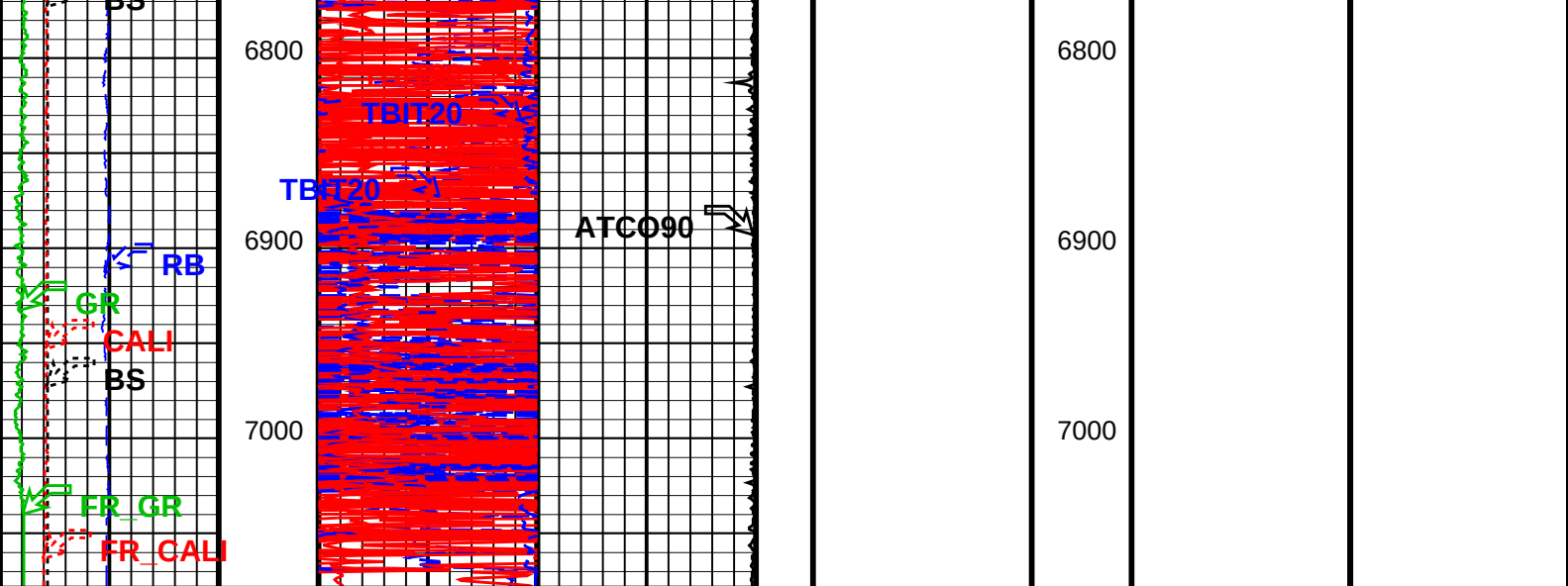
TBT .010 FN:9 03-Apr-2014 23:51 7077.5 FT 5385.5 FT

OP System Version: 19C2-270

TBT SRPC-5292-ThruBit_RevA







Bit Size (BS)	Curve (ATCO90)	
4 (IN) 14	1000 (MM/M)	0
Caliper (CALI)	TBI 20 Inch Investigation (TBIT20)	
4 (IN) 14	0 (OHMM) 50	
Gamma Ray (GR)	TBI 90 Inch Investigation (TBIT90)	
0 (GAPI) 150	0 (OHMM) 50	
Relative Bearing (RB)	TBI 20 Inch Investigation (TBIT20)	
0 (DEG) 360	50 (OHMM) 500	
	TBI 90 Inch Investigation (TBIT90)	
	50 (OHMM) 500	

Parameters			
DLIS Name	Description	Value	
TBT-A: ThruBit String			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	112.0	degF
CCLG	Casing Collar Locator Gain	1.000	
CSAL	Cement Salinity	0.000	ppm
CSID	Casing Size I.D.	6.280	in
DHC	Density Hole Correction	BS	
FD	Fluid Density	1.000	g/cm3
FEXP	Form Factor Exponent	2.000	
FNUM	Form Factor Numerator	1.000	
FPHI	Form Factor Porosity Source	DPHI	
FSAL	Formation Salinity	0.000	ppm
FSCO	Formation Salinity Correction Enabled? (for TBN)	NO	
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0.000	deg
GGRD	Geothermal Gradient	0.010	degF/ft
GRSE	Generalized Mud Resistivity Selection	GEN9	
GTSE	Generalized Temperature Selection	TEMP	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIME	
MDEN	Matrix Density	2.710	g/cm3
MT	Mud Type (for TBN and TBI correction)	WBM	
MWCO	Mud-Weight Correction Enabled? (for TBN)	NO	
RB_OFFSET	Additional RB offset (degrees)	0.000	deg
SHT	Surface Hole Temperature	65.000	degF
SOCO	Stand-Off Correction Enabled? (for TBN)	NO	
SOFF	TBN Standoff	0.000	in
TBD_CAL_BLOCK	TBD Calibration Block Type	THRUBIT	

TBD_SPIKE_REJECT	TBD Spike Detection Option	DETECT	
TBD_SPIKE_THRESHOLD	TBD Attenuation Change Threshold for Spike Detection	5.000	%
TBI_ALGO	TBI Algorithm Selection	AIT	
TBI_BHC_OP	Borehole Correction Option (for TBI)	CALIPER	
TBI_CALTYP	TBI Mastercal Type	THRUBIT	
TBI_REPL_ARRAY_DEST	TBI: Replace This Array	NONE	
TBI_REPL_ARRAY_SOURCE	TBI: With This Array	NONE	
TBI_TC_ID	Induction Temperature Coefficient Tool ID	000PS25R	
TBI_TC_OP	Induction Temperature Correction Option	LOWER	
TBN_BHC_OP	Borehole Correction Option (for TBN)	CALIPER	
TBN_CAL_TANK	TBN Calibration Tank Type	THRUBIT	
TBN PRES_OP	Pressure Correction Enabled? (for TBN)	NO	
TBN_TEMP_OP	Temperature Correction Enabled? (for TBN)	NO	
TBN_WPRE	Well Pressure (for TBN)	14.696	psi
TBT_BARI	Barite Mud Presence Flag	NO	
TB_CORR_CH_1	Correlation Channel	GR (API)	
TMG_BHC_OP	Borehole Correction Option (for TMG)	NONE	
TOJI	Time Of Job Initialization	1396501200	s
WMUD	Mud Weight	8.900	lbm/gal
DIR: Directional Survey Computation			
SPED	East Departure of Starting Point	0.000	ft
SPND	North Departure of Starting Point	0.000	ft
SPVD	TVD of Starting Point	0.000	ft
TAZI	Vertical Section Azimuth	0.000	deg
TIED	East Departure of Tie-in Point	0.000	ft
TIMD	Along-hole depth of Tie-in Point	0.000	ft
TIND	North Departure of Tie-in Point	0.000	ft
TIVD	TVD of Tie-in Point	0.000	ft
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	112.0	degF
CD	Casing Shoe Depth	5460.0	ft
FCD	Future Casing (Outer) Diameter	4.500	in
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0.000	deg
GGRD	Geothermal Gradient	0.010	degF/ft
GRSE	Generalized Mud Resistivity Selection	GEN9	
GTSE	Generalized Temperature Selection	TEMP	
HVCS	Integrated Hole Volume Caliper Selection	AUTOMATIC	
IHVC	Integrated Hole Volume Control	SNAP	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIME	
SHT	Surface Hole Temperature	65.000	degF
VCEM	Cumulated Cement Volume	157.7	ft3
VHOL	Cumulated Hole Volume	335.2	ft3
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	STI	
STKT	STI Stuck Threshold	2.500	ft
TDD	Total Depth - Driller	7391.0	ft
TDL	Total Depth - Logger	7080.0	ft
System and Miscellaneous			
ALTDPCHAN	Name of alternate depth channel	SPEEDCORRECTEDDEPTH	
AMD	Azimuth of Maximum Deviation		
APD	Above Permanent Datum	18.000	ft
APIN	API Serial Number	15077220310100	
BG	Gas Formation Volume Factor, Bg		
BLI	Bottom Log Interval	7070.0	ft
BO	Oil Formation Volume Factor, Bo		
BPP	Bubble Point Pressure		
BPT	Bubble Point Temperature		
BS	Bit Size	6.125	in
BSAL	Borehole Salinity	22000.0	ppm
BSDF	Bit Size Depth From		
BSDT	Bit Size Depth To		
BW	Water Formation Volume Factor, Bw		
CADD	Cement Additives		
CADT	Casing Depth To		
CASG	Casing Grade		
CASN	Casing String Number		
CBDR	Casing Bottom of Driller	5470.0	ft
CBLO	Casing Bottom of Logger	5460.0	ft
CDEN	Cement Density		
CDF	Casing Depth From		
CJT	Cement Job Type	Primary	
CLAB	County/Rig Label	County:	
CN	Company Name	SANDRIDGE ENERGY	
CN1	Company Name Line 1		
CONT	Continent		
CONTP	Conveyance Type	WIRELINE	
COUN	County or Rig Name	HARPER	
CSIZ	Current Casing Size	7.000	in
CTOP	Estimated Cement Top		
CWEI	Casing Weight	0.000	lbm/ft
CWLO	Cement Water Loss		
DATE	Date as Month-Day-Year	3-Apr-2014	

DCS	Date Circulation Stopped	3-Apr-2014	
DEPREM1	Depth Remark 1		
DEPREM2	Depth Remark 2		
DEPREM3	Depth Remark 3		
DEPREM4	Depth Remark 4		
DEPREM5	Depth Remark 5		
DEPREM6	Depth Remark 6		
DFD	Drilling Fluid Density	8.900	lbm/gal
DFL	Drilling Fluid Loss	24.000	cm3
DFPH	Drilling Fluid PH	8.400	
DFT	Drilling Fluid Type	WBM	
DFV	Drilling Fluid Viscosity	34.000	s
DIFF	Maximum Permitted Depth Difference	1.000	ft
DLAB	Date Logger At Bottom	3-Apr-2014	
DMF	Drilling Measured From	K.B.	
EDF	Elevation of Derrick Floor	1304.0	ft
EGL	Elevation of Ground Level	1286.0	ft
EKB	Elevation of Kelly Bushing	1304.0	ft
ELZ	Elevation of Log Zero	1304.0	ft
ENGI	Engineer's Name	DENGLER	
ENVI	Acquisition Environment	ANALOG	
EPD	Elevation of Permanent Datum	1286.0	ft
EWAFF VER	eWAFE Version		
EWTEST	eWAFE Power API Test command	OFF	
FL	Field Location	SHL: 225' FSL & 1845' FEL	
FL1	Field Location Line 1		
FL2	Field Location Line 2		
FLEV	Fluid Level	0.000	ft
FLSHSTRM	Flush depth-delayed streams to output at end	DOWNLOG_ONLY	
FN	Field Name	STOHRVILLE	
GGRA	Gas Gravity		
HID1	Header Identifier Line 1	GAMMA RAY	
HID2	Header Identifier Line 2	MEMORY LOG	
HIDE	Header Identifier	ARRAY INDUCTION	
HLD	Header Legal Disclaimer	INCLUDE	
IBG	1/Gas Formation Volume Factor, 1/Bg		
IDWCD	IDW Calibration Date (dd-mm-yyyy)		
IDWCSN	IDW Calibrator Serial Number		
IDWLCN	IDW Calibration Cable Type	7-46P	
IDWSN	IDW Serial Number		
IDWTYP	IDW Type	IDW-B	
IDWWC1	IDW Wheel Correction 1		
IDWWC2	IDW Wheel Correction 2		
ILL1	Instrumentation Logo Line 1		
ILL2	Instrumentation Logo Line 2		
JETA	Job Events Auto Save	ALLOW	
LATI	Latitude		
LCC	Logging Company Code	440	
LCL	Logging Cable Length	24000	ft
LCMT	Lead Cement Type		
LCN	Logging Cable Name (Type)	7-46P	
LCSN	Logging Cable Serial Number		
LCVO	Lead Cement Volume		
LLAB	Section Label	Section	
LMF	Log Measured From	K.B.	
LOGMODE	Depth Logging Mode	MEASURED_DEPTH	
LOGSEQ	Log Sequence	FIRST_LOG_IN_WELL	
LONG	Longitude		
LUL	Logging Unit Location	OKC, OK	
LUN	Logging Unit Number	11	
MCSS	Mud Cake Sample Source	CALCULATED	
MCST	Mud Cake Sample Temperature		
MFSS	Mud Filtrate Sample Source	CALCULATED	
MFST	Mud Filtrate Sample Temperature		
MHD	Maximum Hole Deviation		
MMDU	Magnetic Mark Depth Units	FEET	
MRT	Maximum Recorded Temperature		
MRT1	Maximum Recorded Temperature 1		
MRT2	Maximum Recorded Temperature 2		
MRT3	Maximum Recorded Temperature 3		
MSS	Mud Sample Source	MUD SENSOR	
MST	Mud Sample Temperature		
NATI	Nation		
NLS	Nominal Logging Speed		
ODEN	Oil Density		
OPER	Operator's Code		
OS1	Other Services Line 1	THRUBIT	
OS2	Other Services Line 2	PORTAL BIT	
OS3	Other Services Line 3		
OS4	Other Services Line 4		
OS5	Other Services Line 5		
PBVSADP	Use alternate depth channel for playback	NO	
PDAT	Permanent Datum	GROUND LEVEL	
PVER	Program Version	19C2-270	

R1	SERVICE: LEVEL 4 HORIZONTAL MEMORY PUMP DOWN – BIT DEPTH LOGGED TO		
R10	Remark Line 10		
R11	Remark Line 11		
R12	Remark Line 12		
R13	Remark Line 13		
R14	Remark Line 14		
R15	Remark Line 15		
R16	Remark Line 16		
R17	Remark Line 17		
R2	Remark Line 2		
R3	Remark Line 3		
R4	Remark Line 4		
R5	Remark Line 5		
R6	Remark Line 6		
R7	Remark Line 7		
R8	Remark Line 8		
R9	Remark Line 9		
RANG	Range		
RIGTYP	Rig Type		
RLAB	Range Label		
RLDT	Reference Log Date (dd-mm-yy)		
RLNM	Reference Log Name		
RLRN	Reference Log Run Number		
RMB	Resistivity of Mud – BHT		
RMCS	Resistivity of Mud Cake Sample		
RMFB	Resistivity of Mud Filtrate – BHT		
RMFS	Resistivity of Mud Filtrate Sample		
RMS	Resistivity of Mud Sample		
RULB	Rig Up Length at Bottom	0.000	ft
RULS	Rig Up Length at Surface	0.000	ft
RUN	Run Number	ONE	
RW	Resistivity of Connate Water	1.000	ohm.m
SCD_ACCEL	Accelerometer driving Speed Corrected Depth	NONE	
SCORR	Stretch Correction		
SECT	Section	14	
SGOR	Solution Gas Oil Ratio		
SIMULATE_DELAY	Simulate Acquisition Delay	-99999.000	
SLAB	State/Province Label	State:	
SON	Service Order Number	2731	
SPEE	Simulated Logging Speed	1800	ft/h
STAT	State or Province	KANSAS	
STDLC	Subsequent Trip Down Log Correction		
STEM	Surface Temperature	65.000	degF
TCA	Tail Cement Additives		
TCDE	Tail Cement Density		
TCS	Time Circulation Stopped	17:00	
TCTY	Tail Cement Type		
TCV	Tail Cement Volume		
TCWL	Tail Cement Water Loss		
TD	Total Depth	7391.0	ft
TLAB	Time Logger At Bottom	18:00	
TLI	Top Log Interval	5460.0	ft
TLLAB	Township Label	Township	
TNDALPTS	Number of Tension Calibration Points	0	
TNDCD	Tension Device Calibration Date (dd-mm-yy)		
TNDCSN	Tension Device Calibrator Serial Number		
TNDGN	Tension Device Gain		
TNDOFF	Tension Device Offset		
TNDPE	Tension Device Calibration Peak Error		
TNDRMS	Tension Device Calibration RMS		
TNDSN	Tension Device Serial Number		
TNDTYP	Tension Device	CMTD-B/A	
TOWN	Township	33S	
TREF	Reference Tension of the Cable	1000.0	lbf
TWS	Temperature of Connate Water Sample	100.0	degF
UWID	Unique Well Identification Number	15077220310100	
WITN	Witness's Name	JACKIE KENNEDY	
WN	Well Name	OLIVER 3306 2-14H	
ZRCS	Tool Zero Reference Check at Surface		

Format: TB_1INCH_HALFSCALE Vertical Scale: 1" per 100' Graphics File Created: 03-Apr-2014 23:51

OP System Version: 19C2-270

Input DLIS Files

DEFAULT	ThruBit_009PUP	FN:8	PRODUCER	03-Apr-2014 23:46	7077.5 FT	2531.0 FT
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Output DLIS Files

TBT .010	FN:9	03-Apr-2014 23:51
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