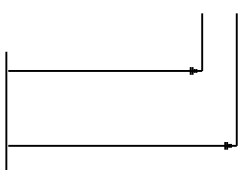
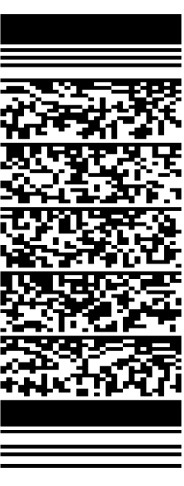


Company: Noble Energy Inc		Well: Moser #H34-769		Field: Wattenberg		County: Weld		State: Colorado		Country: United States	
<div>SlimPulse - Gamma Ray</div> <div>1 in. / 100 ft., Measured Depth</div> <div>Composite Log, Recorded Mode</div> <div>Schlumberger</div>											
Company: Noble Energy Inc				Moser #H34-769							
Well: Wattenberg				Weld							
County: Colorado				United States							
Country: United States											
Section: 22		APIN: 0512340731		Township: 03N		Rig Name: H&P 273		Range: 65W		Top Drive	
FL: NAD83 Colorado State Plane, Northern Zone, US Feet											
FL1: Latitude: 40° 12' 17.388" N, Northing: 1318585.064 ftUS											
FL2: Longitude: 104° 39' 19.908" W, Easting: 3235867.161 ftUS											
<div>Log Measured From: - Drill Floor: 4836.00 ft</div> <div>Ground Level: 4812.00 ft</div> <div></div>											
Permanent Datum: - Mean Sea Level											
Acquisition Dates: 26-Oct-2015 -- 30-Oct-2015		Other Services:									
Log Interval: 7330.00(ft) -- 16660.00(ft)		Directional Drilling									
Index Types: Measured Depth		Downhole Shocks									
Index Scales: 1:1200 1" / 100'		Downhole Temperature									
Depth Source: Driller's Depth											
Depth Sensor: PASON											
Print Type: Final											
Spud Date: 17-Oct-2015											

Disclaimer

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

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- Survey Record
- Calibration Report
- Tail



Borehole Size/Casing Record						
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Bit						
Bit Size (in)	8.75	6.125				
Top Driller (ft)	0	7387				
Bottom Driller (ft)	7387	16650				
Casing						
Size (in)	7					
Weight (lbm/ft)	21.4					
Inner Diameter (in)	6.416					
Grade	N/A					
Top Driller (ft)	0					
Bottom Driller (ft)	7378					

Operational Run Summary						
-------------------------	--	--	--	--	--	--

Parameter (unit)	Run01					
Date Log Started	26-Oct-2015					
Time Log Started	06:04:32					
Date Log Finished	30-Oct-2015					
Time Log Finished	13:09:08					
Bit Size (in)	6.125					
Bit Start Depth (ft)	7387.00					
Bit Stop Depth (ft)	16650.00					
Top Log Interval (ft)	7347.00					
Bottom Log Interval (ft)	16610.00					
Max Hole Deviation (deg)	92.96					
Azimuth of Max Deviation (deg)	178.97					
Logging Unit Number	Command Center					
Logging Unit Location	Zone 3					
Recorded By	M. Wilson					
Witnessed By	C. Mitchell					
Service Order Number	15CCO0815					

Borehole Fluids						
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Parameter(unit)	Run01					
Fluid Type	Water					
Max Recorded Temperatures (degF)	278					
Conductivity (mS/cm)	Active Test					

Run01: Toolstring				Run01: Remarks
Equip name SPULSE-GEN FLOWSUB:DR20238 SPCOLLAR SPMA SPEC SPBA UBHO:465U243	Length 52.08	MP name	Offset	Data presented is from tool memory and acquired while drilling from 7387 ft. MD to 16650 ft. MD.
				Depth Reference: Driller's Depth
				Gamma Ray is corrected for bit size, mud weight, and tool collar thickness. Barite and potassuim affect Gamma Ray readings.
				Run Objective: Drill lateral section
				Bit to GR: 40.00 ft. Bit to DNI: 36.97 ft.
				Drilled from 7387 ft. MD to 16650 ft. MD Logged from 7347 ft. MD to 16610 ft. MD
				SlimPulse Software Version: 11 SlimPulse UGR Calibrated: Oct. 03, 2015 SlimPulse UDI Calibrated: Apr. 08, 2015
		GR	40.00	Schlumberger Personnel: DD: Charles Mitchell, Andrey Uuemaa MWD: Michael Love, Mark Wilson
		D&I	36.97	Reason for POOH: Well TD

PDORBIT_475:91 15.41
331
Crossover
PD475CC
PDCU
PDSC Sleeve
Gamma Set
Impeller Set
PDORB475BU:91331



Azimuth 9.65
D&I 7.55
GR 6.65
Anchor Bolt 4.15

Bit:JK8848 0.62 SDI516

TOOL_ZERO

Lengths are in ft
Maximum Outer Diameter = 6.125 in
Line: Sensor Location, Value: Gating Offset
All measurements are relative to TOOL_ZERO

Well Composite

Software Version

Acquisition System	Version
Maxwell 2014 SP3	5.3.47551.3100

Composite Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Include Parallel Data
Run01	Drilling	Down	7387.08 ft	16650.42 ft	26-Oct-2015 3:32:31 PM	30-Oct-2015 1:09:08 PM	Yes

All depths are referenced to toolstring zero

Log

Company:Noble Energy Inc Well:Moser H34-769
Well Composite:S241

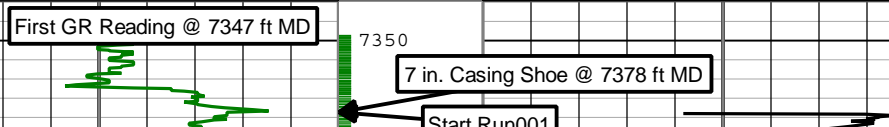
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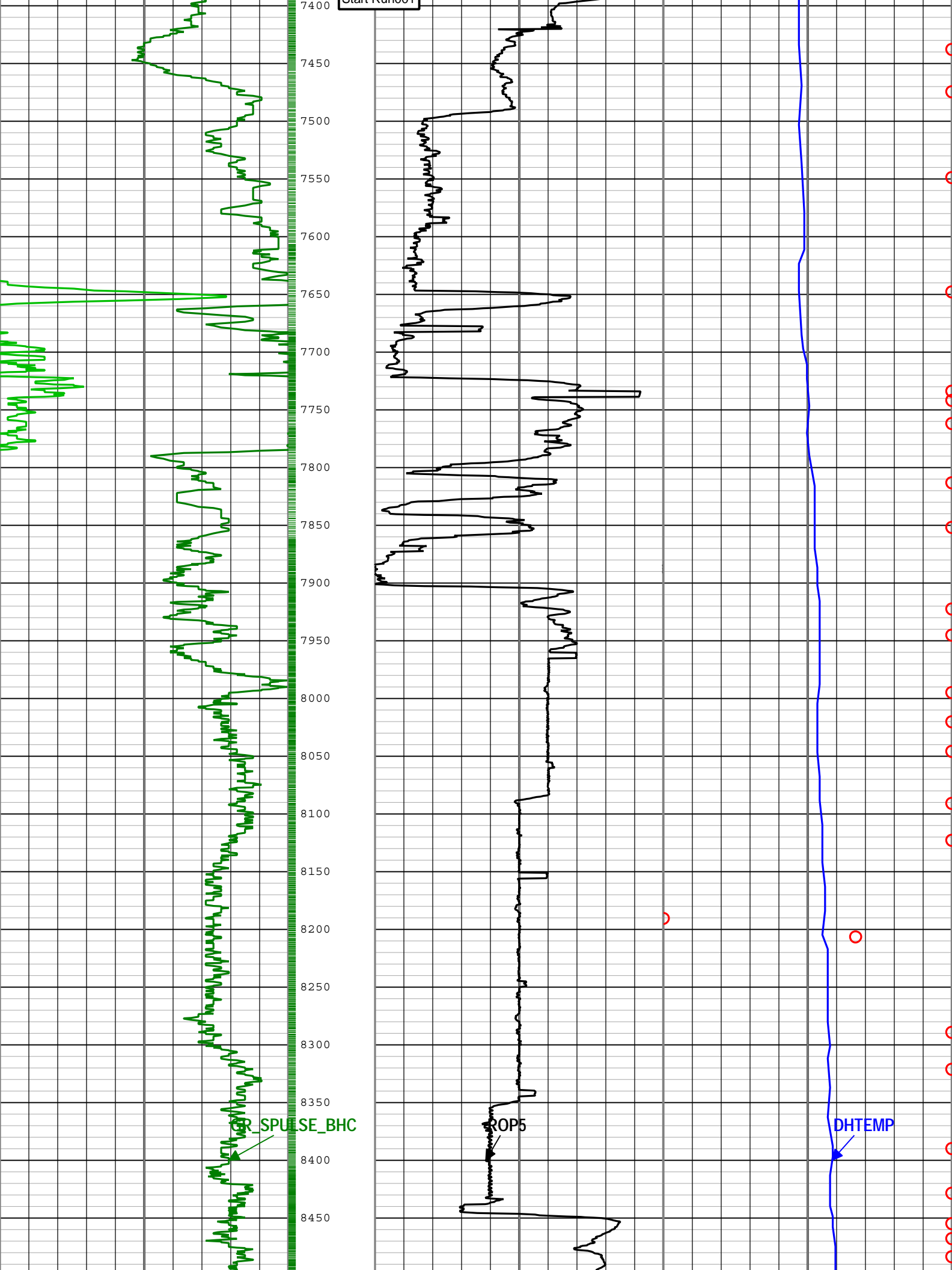
GR_SPULSE_RAW - Raw Gamma Ray SlimPulse[1] RM

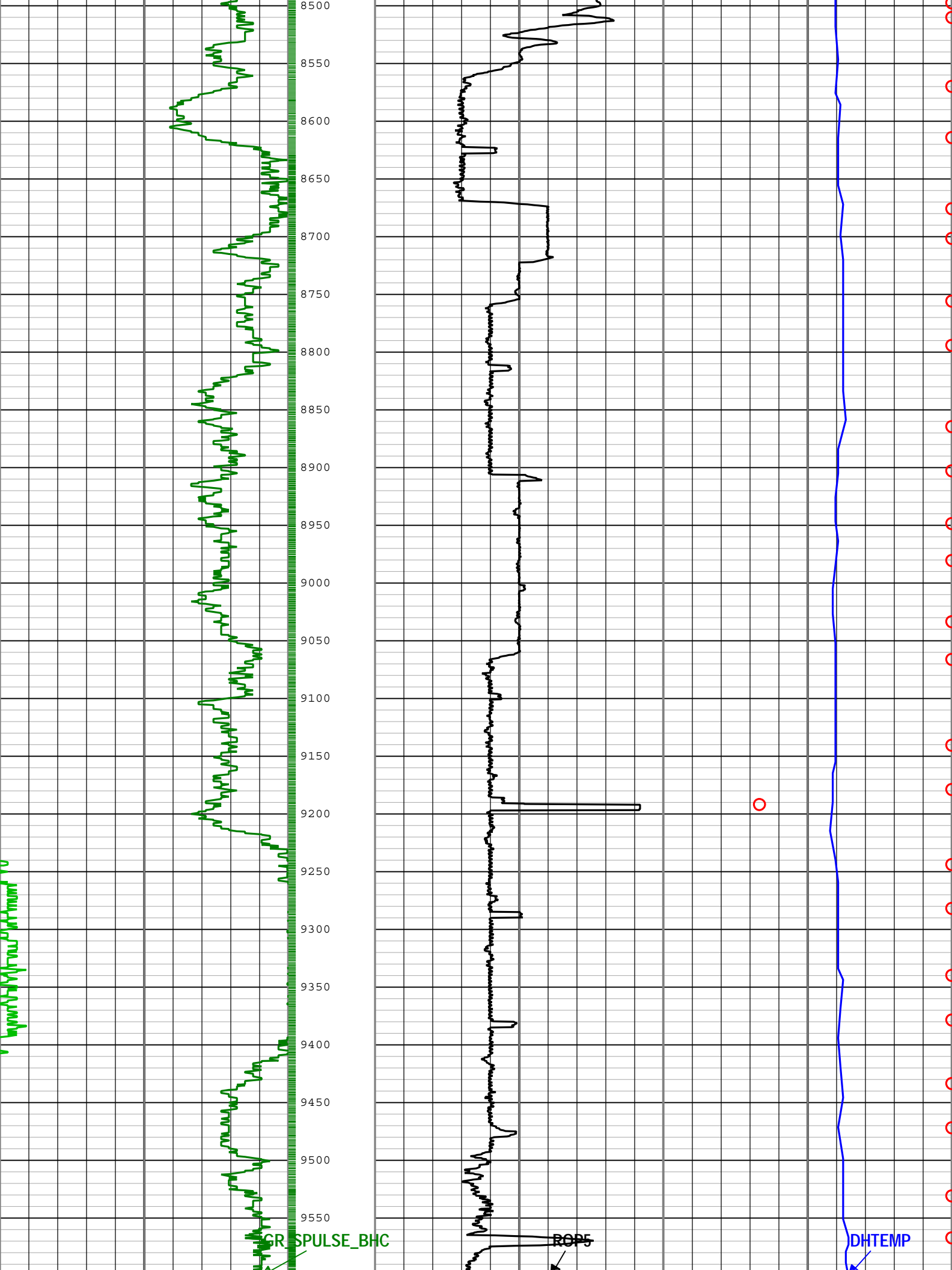
Gamma Ray (GR_SPULSE_BHC) SlimPulse[1] RM		
0	gAPI	150
Gamma Ray (GR_SPULSE_BHC) SlimPulse[1] RM		
150	gAPI	300
Gamma Ray (GR_SPULSE_BHC) SlimPulse[1] RM		
300	gAPI	450

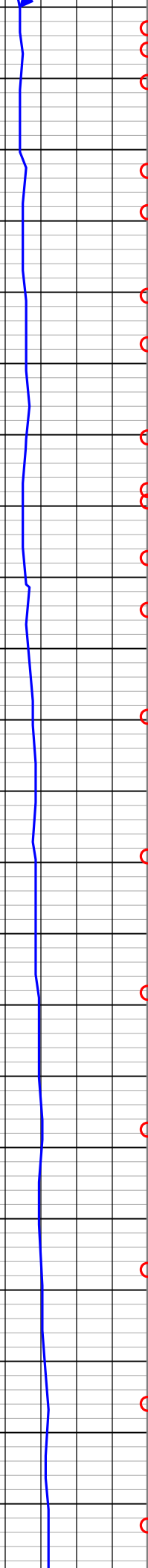
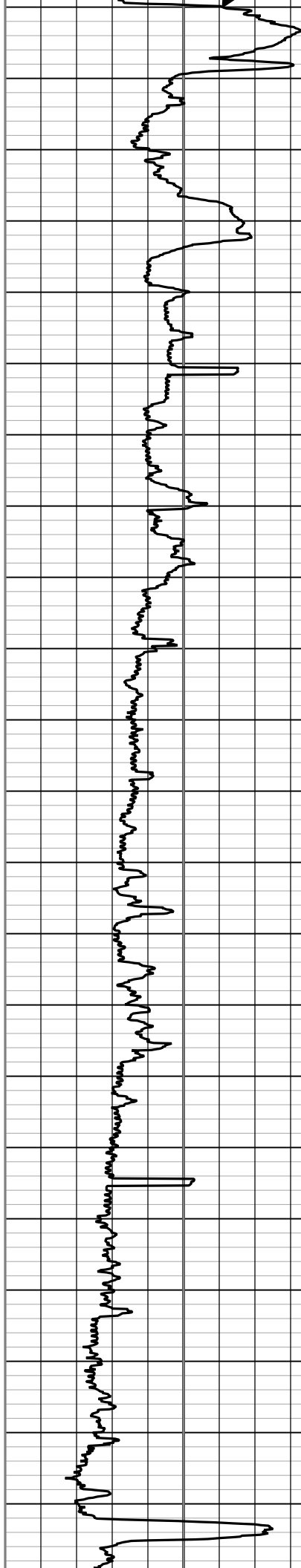
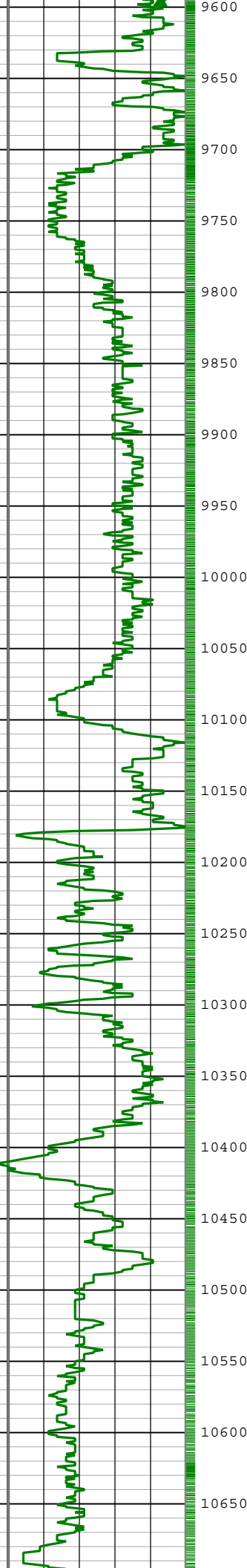
Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT	
500	ft/h

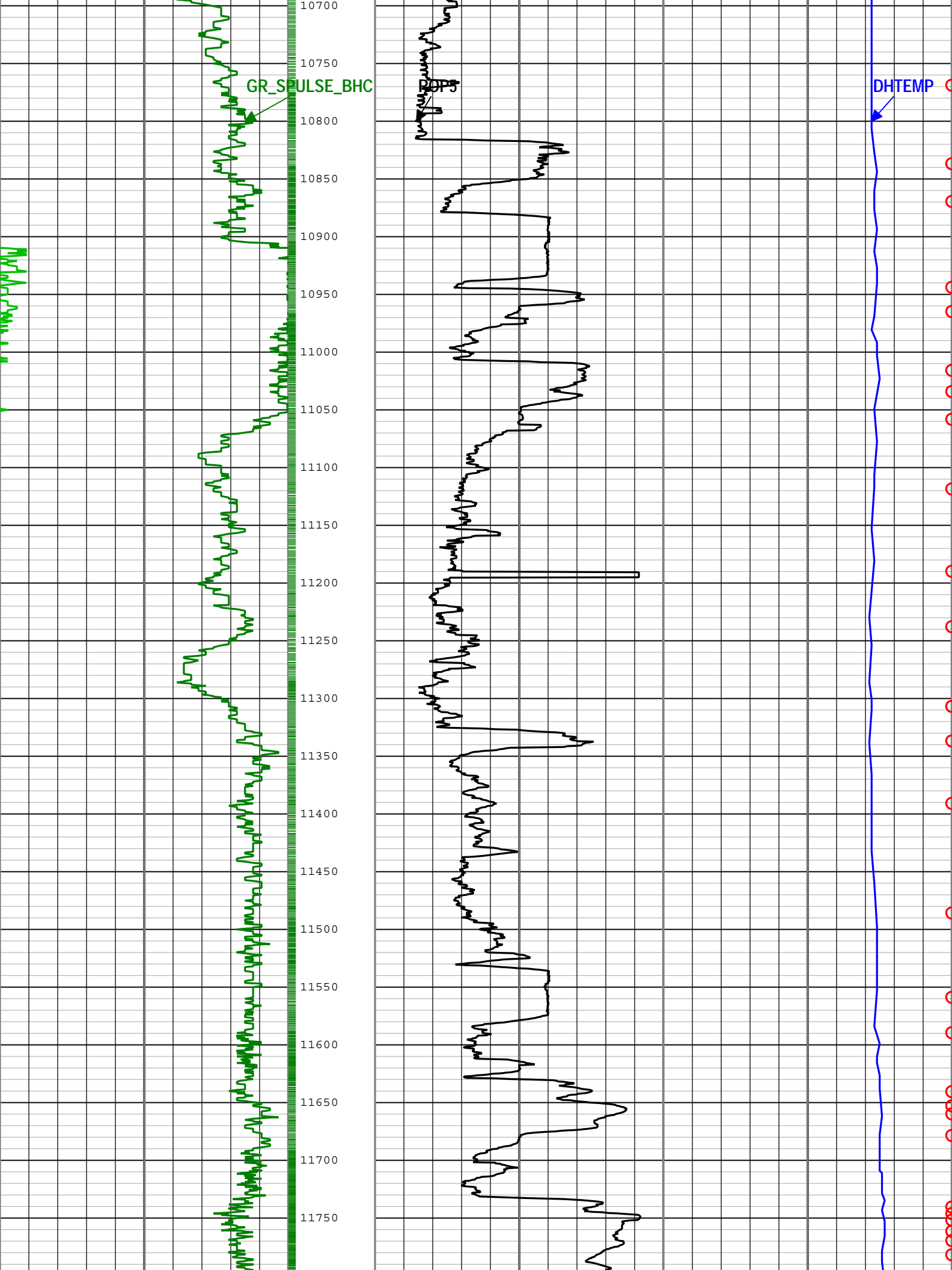
Tool Temperature (DHTMP) SlimPulse[1] RM	
100	degF
Shock Risk (SHKRSK_RT) SlimPulse[1] RT	
3	

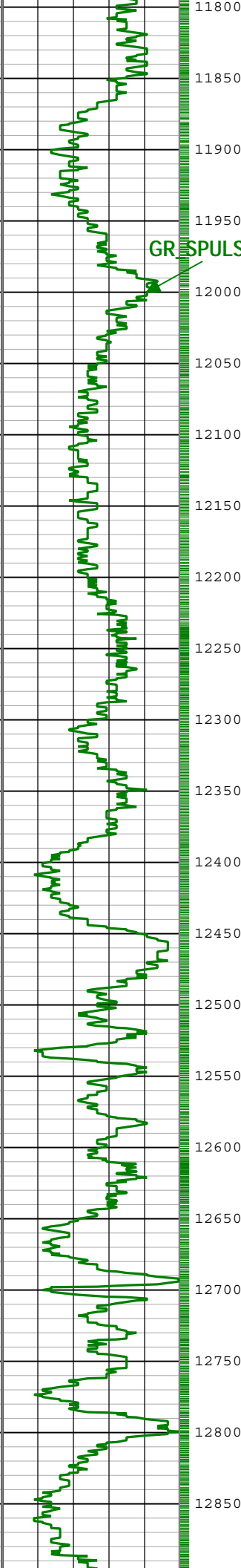




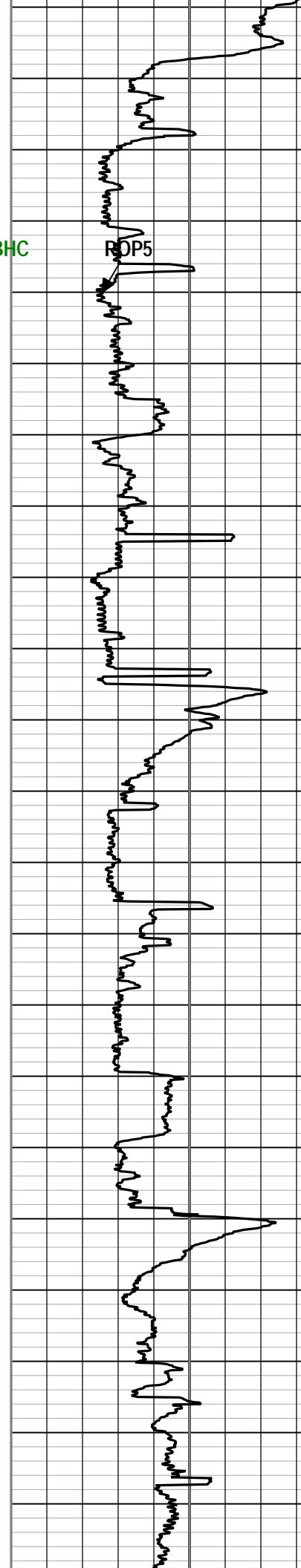




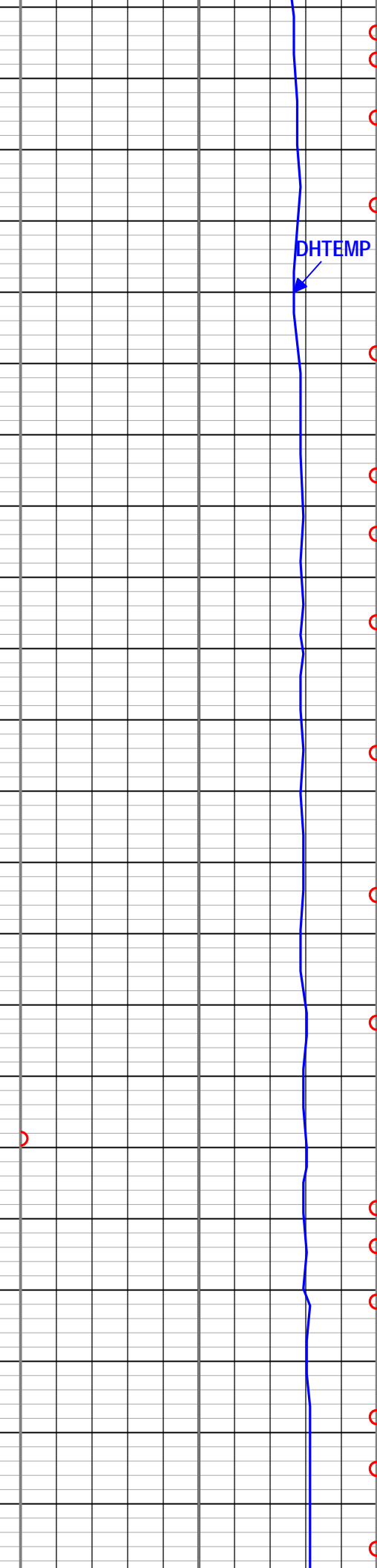




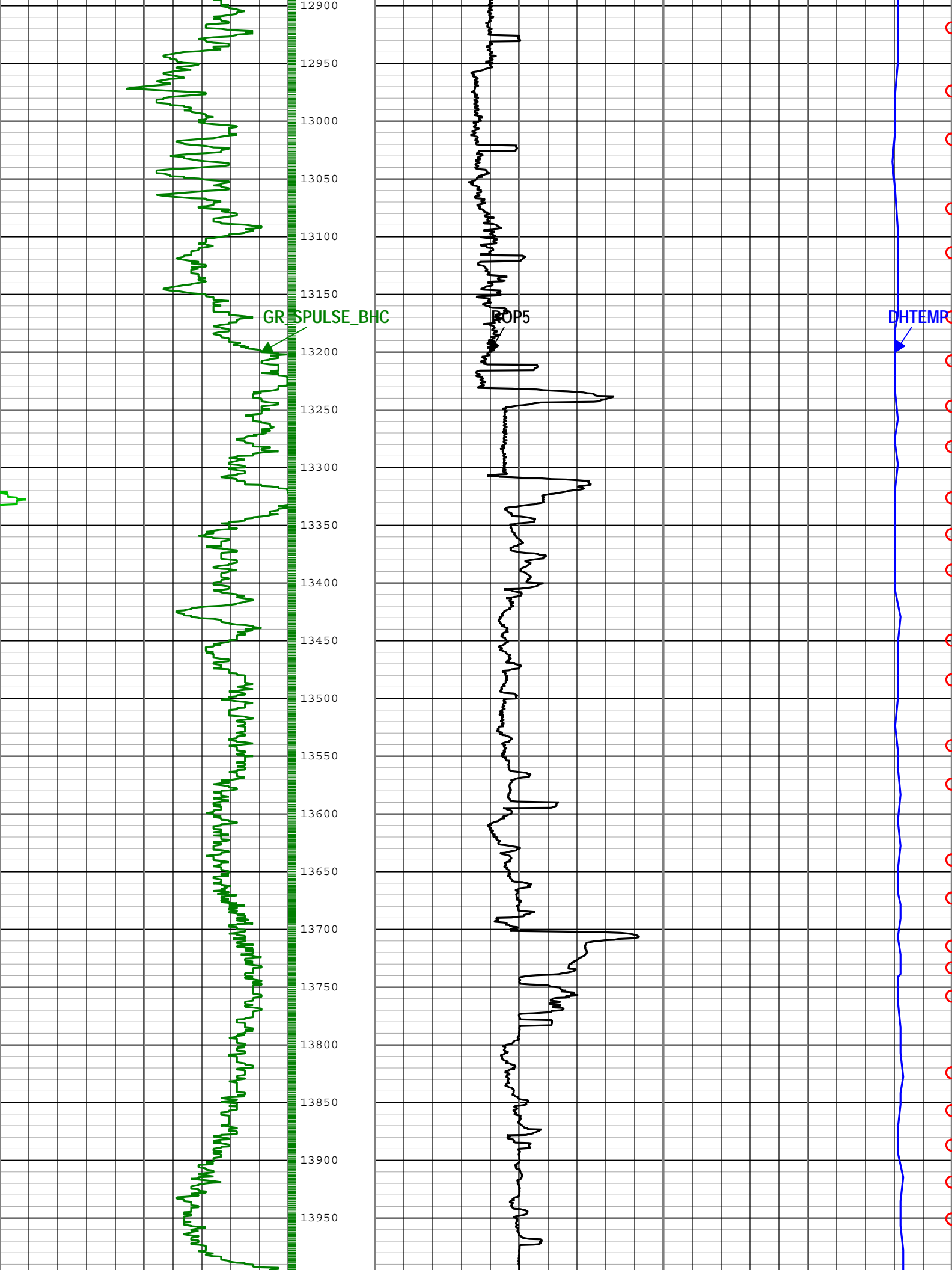
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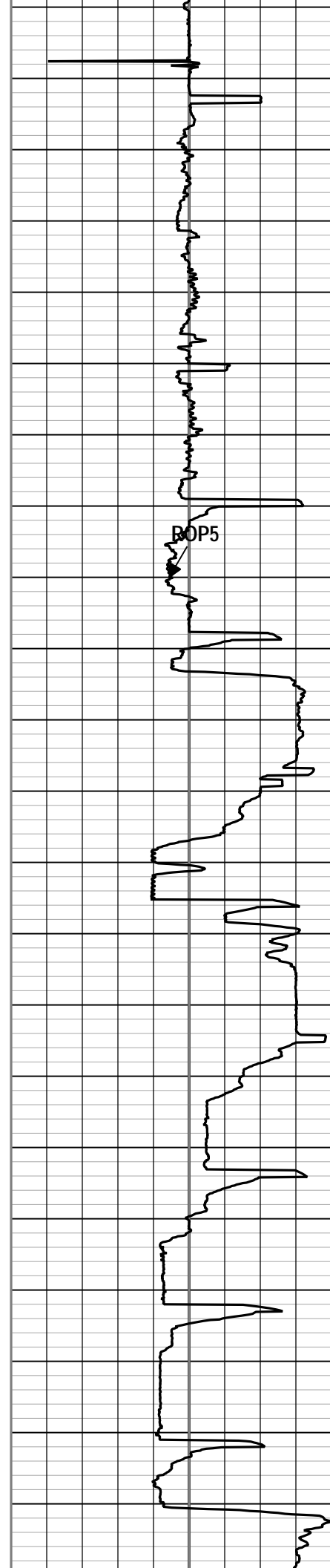
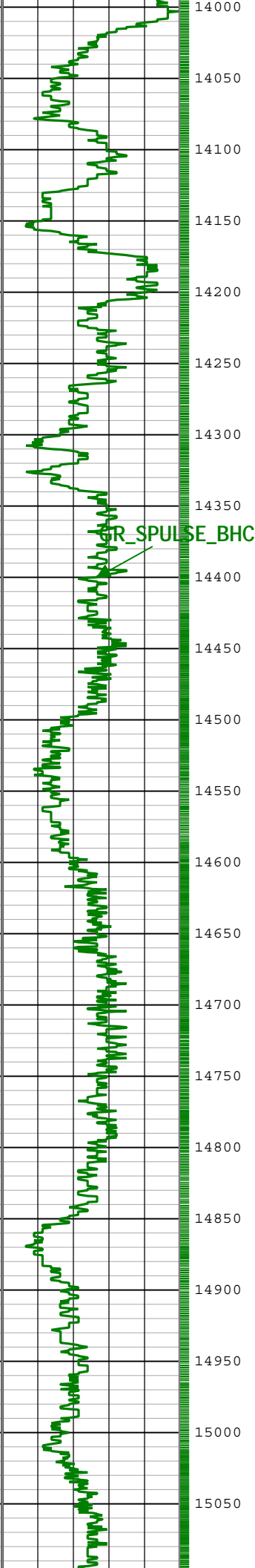


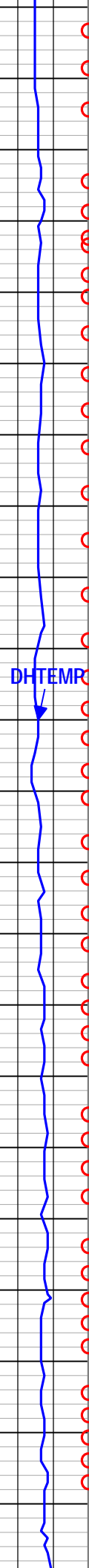
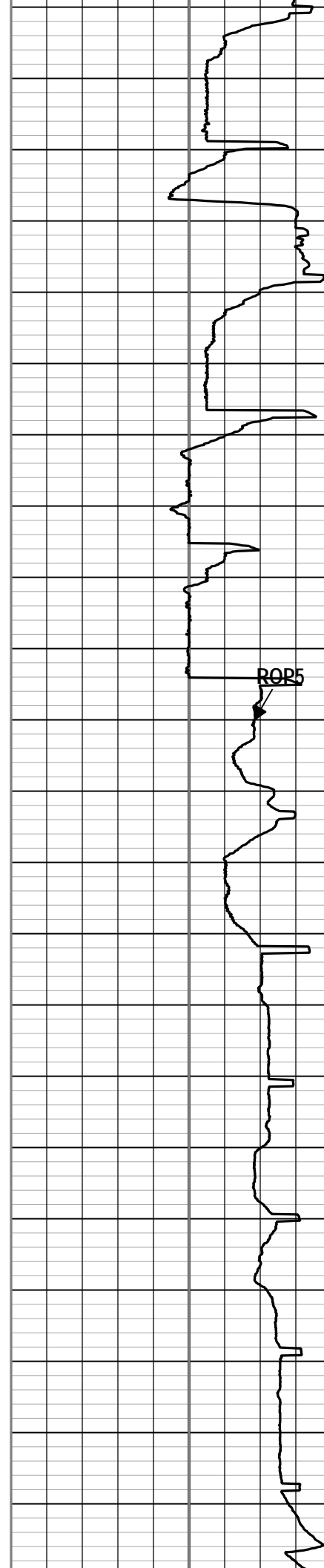
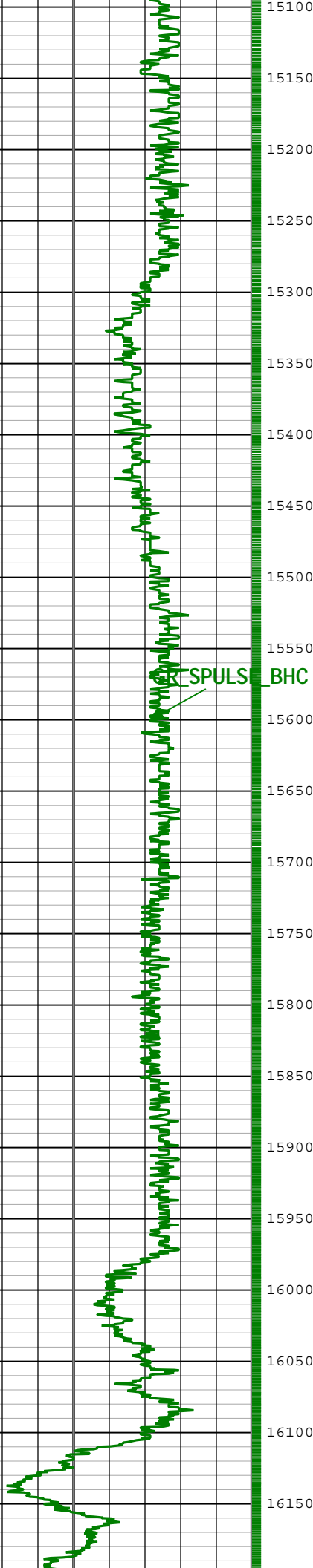
ROP5

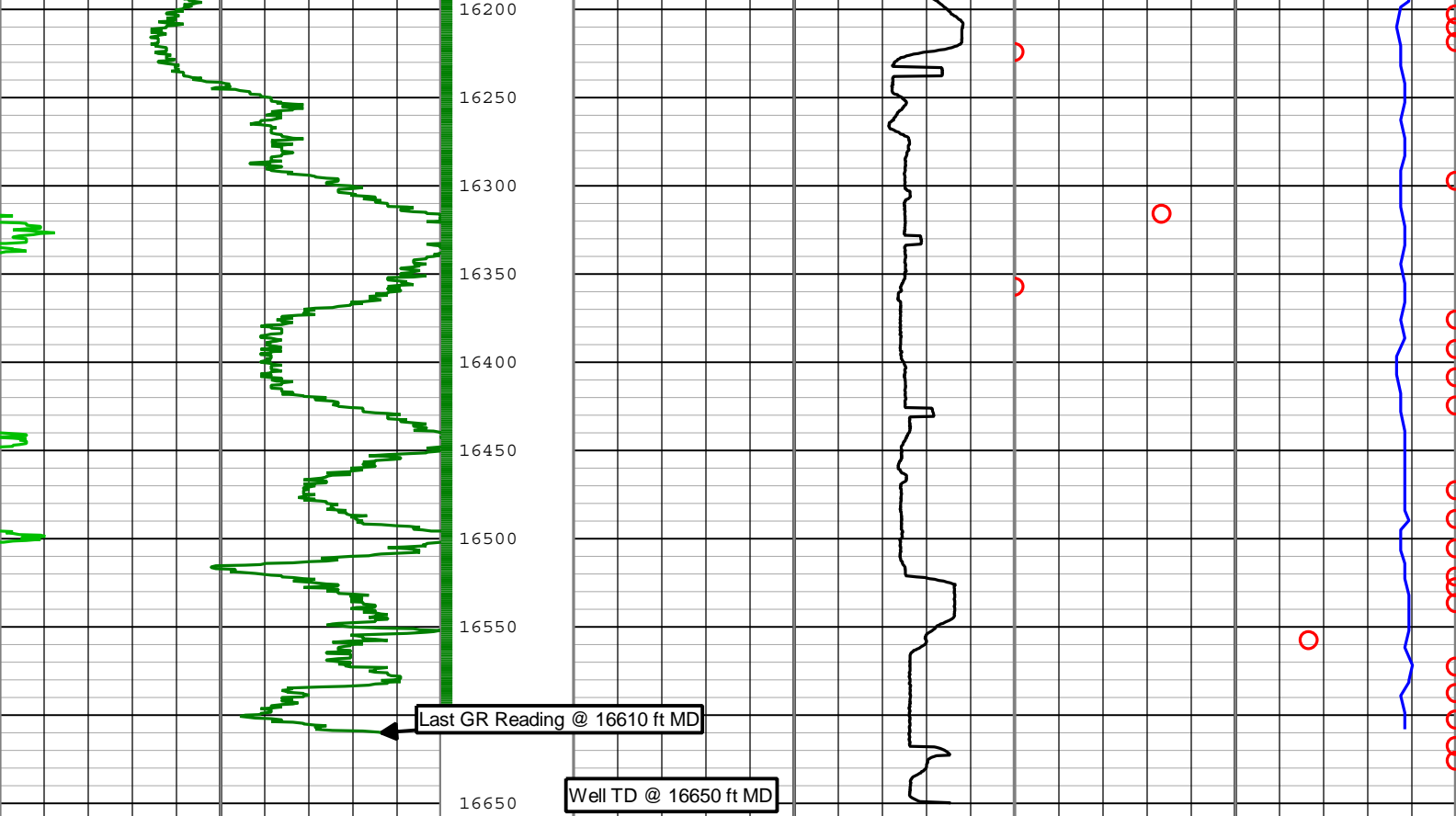


DHTEMP









Gamma Ray (GR_SPULSE_BHC) SlimPulse[1] RM		
0	gAPI	150

Gamma Ray (GR_SPULSE_BHC) SlimPulse[1] RM		
150	gAPI	300

Gamma Ray (GR_SPULSE_BHC) SlimPulse[1] RM		
300	gAPI	450

Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT		
500	ft/h	0

Tool Temperature (DHTEMP) SlimPulse[1] RM		
100	degF	300

Shock Risk (SHKRSK_RT) SlimPulse[1] RT		
3		0

GR_SPULSE_RAW - Raw Gamma Ray SlimPulse[1] RM

Description: Format: Log (MD EOW) Index Scale: 1 in per 100 ft Index Unit: ft Index Type: Measured Depth Creation Date: 02-Nov-2015 10:51:13

Channel Processing Parameters

Run01: Parameters

Parameter	Description	Tool	Value	Unit
BS	Bit Size	DNMSESSION	Depth Zoned	in
DFD	Drilling Fluid Density	Borehole	Time Zoned	lbm/gal
GR_SRC	GR Source Selection	SPULSE-GEN	GAMMA_EXT	

Run01Depth Zoned Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	8.75	7335	7387
BS	6.125	7387	16650

All depth are actual.

Run01Time Zoned Parameters

Pass Drilling

Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
DFD	10.2	26 Oct 2015 15:32:31	28 Oct 2015 14:00:00	7387.08	14954.08

DFD	10.2	28-Oct-2015 15:52:31	28-Oct-2015 14:00:00	7357.08	14954.08										
DFD	10.3	28-Oct-2015 14:00:00	30-Oct-2015 13:09:08	14954.08	16650.42										
All depth are at tool zero.															
Tool Control Parameters															
Survey Record															
Survey Calculation															
Method :		Minimum Radius of Curvature	DLS Method :		Lubinski										
North Reference :		Grid North	Total Correction Formula :		Magnetic Dec - Grid Convergence										
Grid Convergence :		0.55 deg													
Rig Location															
Latitude :		40° 12' 17.388" N	Longitude :		104° 39' 19.908" W										
Tie In Point															
Measured Depth:		0.00 ft	Inclination:	0.00 deg	Azimuth:	0.00 deg									
True Vertical Depth:		0.00 ft	North Displacement:	0.00 ft	East Displacement:	0.00 ft									
N/-S VSec Origin:		0.00 ft	E/-W VSec Origin:	0.00 ft	Vertical Section Azimuth:	179.27 deg									
D&I Inits Computed and Values Used - Run01															
Geomagnetic Model :		BGGM 2015	Geomagnetic Date :		25 Oct 2015										
Computed Location B :		52503.96 nT +/- 300.00nT	Used Location B :		52468.90 nT +/- 300.00nT										
Computed Location G :		999.53 mgn +/- 2.50mgn	Used Location G :		999.01 mgn +/- 2.50mgn										
Computed Magnetic Dip :		66.82 deg +/- 0.45deg	Used Magnetic Dip :		66.86 deg +/- 0.45deg										
Computed Magnetic Dec :		8.46 deg	Used Magnetic Dec :		8.37 deg										
Computed Total Correction :		7.91 deg	Used Total Correction :		7.82 deg										
Survey Quality Index															
9 : Manual		28 : Tie-In Point													
Survey Correction Index															
0 : No correction															
Survey Description Index															
0 : Not Flagged Survey		7 : Projection to Bit													
Seq	MD (ft)	Incl (deg)	Azim (deg)	Course (ft)	TVD (ft)	V Sec (ft)	N/ -S (ft)	E/ -W (ft)	Closure (ft)	at Azim (deg)	DLS deg/100ft	Tool Type	QI	CI	DI
1	0.00	0.00	0.00	- - - -	0.00	0.00	0.00	0.00	0.00	90.00	0.00	TIP	28	0	0
2	250.00	0.03	320.92	250.00	250.00	-0.05	0.05	-0.04	0.07	320.92	0.01	Other	9	0	0
3	500.00	0.07	320.92	250.00	500.00	-0.22	0.22	-0.18	0.30	320.92	0.02	Other	9	0	0
4	815.00	0.11	320.92	315.00	815.00	-0.61	0.60	-0.49	0.79	320.92	0.01	Other	9	0	0
5	821.00	0.11	320.92	6.00	821.00	-0.62	0.61	-0.50	0.79	320.92	0.00	Other	9	0	0
6	916.00	0.07	209.14	95.00	916.00	-0.64	0.63	-0.58	0.85	317.33	0.16	Other	9	0	0
7	1010.00	0.79	268.61	94.00	1010.00	-0.58	0.57	-1.26	1.38	294.25	0.81	Other	9	0	0
8	1105.00	1.01	261.75	95.00	1104.98	-0.47	0.43	-2.74	2.79	278.94	0.26	Other	9	0	0
9	1197.00	1.77	162.57	92.00	1196.97	1.00	-1.04	-3.12	3.28	251.55	2.36	Other	9	0	0
10	1289.00	1.89	160.45	92.00	1288.92	3.80	-3.83	-2.19	4.40	209.75	0.15	Other	9	0	0
11	1472.00	1.71	162.98	183.00	1471.83	9.27	-9.28	-0.38	9.28	182.33	0.11	Other	9	0	0
12	1564.00	3.61	181.26	92.00	1563.73	13.49	-13.49	-0.04	13.48	180.17	2.24	Other	9	0	0
13	1656.00	5.28	177.14	92.00	1655.45	20.61	-20.61	0.11	20.60	179.70	1.85	Other	9	0	0
14	1747.00	7.01	188.99	91.00	1745.92	30.27	-30.28	-0.55	30.28	181.04	2.35	Other	9	0	0
15	1839.00	9.88	188.49	92.00	1836.92	43.60	-43.64	-2.59	43.70	183.40	3.12	Other	9	0	0
16	1930.00	9.12	186.61	91.00	1926.67	58.46	-58.52	-4.58	58.69	184.47	0.90	Other	9	0	0
17	2021.00	11.09	184.80	91.00	2016.25	74.32	-74.41	-6.14	74.67	184.72	2.19	Other	9	0	0
18	2113.00	10.42	184.54	92.00	2106.64	91.42	-91.52	-7.54	91.83	184.71	0.73	Other	9	0	0
19	2205.00	9.53	185.37	92.00	2197.25	107.27	-107.39	-8.91	107.78	184.74	0.98	Other	9	0	0
20	2296.00	9.36	181.76	91.00	2287.01	122.16	-122.29	-9.84	122.70	184.60	0.68	Other	9	0	0
21	2388.00	10.72	175.71	92.00	2377.60	138.17	-138.30	-9.43	138.62	183.90	1.87	Other	9	0	0
22	2480.00	10.08	174.39	92.00	2468.09	154.73	-154.85	-8.00	155.05	182.96	0.74	Other	9	0	0
23	2562.00	8.60	172.94	182.00	2547.67	184.15	-184.22	-5.01	184.28	181.56	0.81	Other	9	0	0

23	2662.00	8.60	173.94	182.00	2647.67	184.15	-184.23	-5.01	184.28	181.56	0.81	Other	9	0	0
24	2753.00	9.91	186.64	91.00	2737.50	198.70	-198.78	-5.20	198.85	181.50	2.66	Other	9	0	0
25	2845.00	10.02	187.09	92.00	2828.11	214.48	-214.58	-7.10	214.70	181.90	0.15	Other	9	0	0
26	2936.00	9.88	186.12	91.00	2917.74	230.07	-230.20	-8.91	230.38	182.22	0.24	Other	9	0	0
27	3030.00	9.50	185.90	94.00	3010.40	245.78	-245.94	-10.57	246.16	182.46	0.41	Other	9	0	0
28	3125.00	8.01	185.59	95.00	3104.29	260.15	-260.32	-12.02	260.60	182.64	1.57	Other	9	0	0
29	3314.00	7.86	187.28	189.00	3291.48	286.04	-286.25	-14.94	286.65	182.99	0.15	Other	9	0	0
30	3408.00	8.94	177.10	94.00	3384.48	299.70	-299.92	-15.38	300.33	182.94	1.95	Other	9	0	0
31	3503.00	7.39	171.08	95.00	3478.51	313.12	-313.33	-14.06	313.65	182.57	1.86	Other	9	0	0
32	3597.00	7.94	175.27	94.00	3571.67	325.58	-325.77	-12.59	326.02	182.21	0.83	Other	9	0	0
33	3692.00	8.05	180.42	95.00	3665.75	338.78	-338.96	-12.10	339.17	182.04	0.76	Other	9	0	0
34	3787.00	8.24	181.46	95.00	3759.79	352.23	-352.42	-12.32	352.62	182.00	0.25	Other	9	0	0
35	3881.00	9.56	167.77	94.00	3852.67	366.62	-366.78	-10.84	366.93	181.69	2.65	Other	9	0	0
36	3976.00	8.99	166.42	95.00	3946.43	381.58	-381.71	-7.42	381.79	181.11	0.64	Other	9	0	0
37	4071.00	8.57	166.41	95.00	4040.31	395.72	-395.80	-4.02	395.83	180.58	0.44	Other	9	0	0
38	4165.00	9.86	164.79	94.00	4133.10	410.34	-410.38	-0.26	410.37	180.04	1.40	Other	9	0	0
39	4260.00	8.93	161.61	95.00	4226.82	425.24	-425.23	4.20	425.26	179.43	1.12	Other	9	0	0
40	4355.00	9.50	169.77	95.00	4320.60	440.00	-439.94	7.92	439.99	178.97	1.50	Other	9	0	0
41	4449.00	8.24	165.12	94.00	4413.48	454.19	-454.08	11.03	454.23	178.61	1.54	Other	9	0	0
42	4544.00	8.11	169.49	95.00	4507.51	467.39	-467.25	14.00	467.45	178.28	0.67	Other	9	0	0
43	4639.00	7.20	180.84	95.00	4601.67	479.95	-479.79	15.13	480.02	178.19	1.85	Other	9	0	0
44	4733.00	4.38	173.35	94.00	4695.18	489.41	-489.25	15.46	489.50	178.19	3.10	Other	9	0	0
45	4828.00	3.95	175.64	95.00	4789.93	496.28	-496.12	16.13	496.39	178.14	0.49	Other	9	0	0
46	4922.00	2.85	177.95	94.00	4883.76	501.85	-501.68	16.46	501.94	178.12	1.18	Other	9	0	0
47	5017.00	2.72	172.53	95.00	4978.65	506.45	-506.28	16.84	506.56	178.10	0.31	Other	9	0	0
48	5112.00	2.47	170.48	95.00	5073.55	510.71	-510.53	17.47	510.83	178.04	0.28	Other	9	0	0
49	5206.00	2.31	169.83	94.00	5167.47	514.58	-514.39	18.14	514.70	177.98	0.17	Other	9	0	0
50	5396.00	0.84	75.85	190.00	5357.42	518.04	-517.82	20.17	518.21	177.77	1.32	Other	9	0	0
51	5490.00	1.10	56.72	94.00	5451.40	517.39	-517.16	21.59	517.62	177.61	0.44	Other	9	0	0
52	5585.00	1.41	50.57	95.00	5546.38	516.17	-515.91	23.25	516.44	177.42	0.36	Other	9	0	0
53	5680.00	1.60	61.85	95.00	5641.35	514.83	-514.55	25.33	515.16	177.18	0.37	Other	9	0	0
54	5774.00	1.27	222.23	94.00	5735.34	514.99	-514.70	25.78	515.35	177.13	3.01	Other	9	0	0
55	5869.00	0.90	190.39	95.00	5830.32	516.49	-516.21	24.94	516.80	177.23	0.73	Other	9	0	0
56	5964.00	0.74	183.51	95.00	5925.31	517.83	-517.56	24.77	518.14	177.26	0.20	Other	9	0	0
57	6058.00	0.50	120.25	94.00	6019.31	518.65	-518.37	25.09	518.96	177.23	0.73	Other	9	0	0
58	6153.00	0.73	74.96	95.00	6114.30	518.71	-518.42	26.03	519.06	177.13	0.55	Other	9	0	0
59	6247.00	1.93	56.02	94.00	6208.27	517.70	-517.38	27.92	518.14	176.91	1.34	Other	9	0	0
60	6342.00	1.74	63.23	95.00	6303.22	516.19	-515.84	30.53	516.73	176.61	0.31	Other	9	0	0
61	6436.00	8.00	201.91	94.00	6396.95	521.61	-521.28	29.36	522.11	176.78	9.98	Other	9	0	0
62	6531.00	19.46	207.09	95.00	6489.09	541.77	-541.57	19.66	541.93	177.92	12.12	Other	9	0	0
63	6626.00	26.34	200.42	95.00	6576.56	575.47	-575.45	5.08	575.46	179.49	7.73	Other	9	0	0
64	6721.00	38.20	186.91	95.00	6656.85	624.48	-624.60	-5.86	624.64	180.54	14.55	Other	9	0	0
65	6816.00	48.55	182.78	95.00	6725.82	689.32	-689.52	-11.14	689.60	180.93	11.29	Other	9	0	0
66	6910.00	57.04	178.80	94.00	6782.62	764.07	-764.28	-12.02	764.37	180.90	9.64	Other	9	0	0
67	7005.00	57.78	178.05	95.00	6833.79	844.10	-844.29	-9.82	844.36	180.67	1.02	Other	9	0	0
68	7100.00	64.36	177.19	95.00	6879.73	927.16	-927.32	-6.35	927.33	180.39	6.97	Other	9	0	0
69	7195.00	69.16	176.41	95.00	6917.20	1014.35	-1014.45	-1.47	1014.44	180.08	5.11	Other	9	0	0
70	7289.00	76.41	176.63	94.00	6945.00	1103.97	-1104.01	3.97	1104.04	179.79	7.72	Other	9	0	0
71	7331.00	80.97	176.60	42.00	6953.24	1145.10	-1145.11	6.41	1145.14	179.68	10.86	Other	9	0	0
72	7449.00	87.25	177.68	118.00	6965.34	1262.34	-1262.29	12.25	1262.34	179.44	5.40	SlimPulse	9	0	0
73	7544.00	88.59	177.80	95.00	6968.79	1357.24	-1357.15	16.00	1357.25	179.32	1.42	SlimPulse	9	0	0
74	7638.00	89.87	177.76	94.00	6970.05	1451.20	-1451.07	19.64	1451.21	179.22	1.36	SlimPulse	9	0	0

75	7733.00	91.69	177.81	95.00	6968.76	1546.15	-1545.98	23.31	1546.16	179.14	1.92	SlimPulse	9	0	0
76	7827.00	92.20	178.30	94.00	6965.57	1640.08	-1639.87	26.50	1640.09	179.07	0.75	SlimPulse	9	0	0
77	7922.00	92.96	178.97	95.00	6961.29	1734.97	-1734.75	28.76	1734.97	179.05	1.07	SlimPulse	9	0	0
78	8017.00	90.81	179.09	95.00	6958.17	1829.92	-1829.68	30.37	1829.92	179.05	2.27	SlimPulse	9	0	0
79	8111.00	89.88	178.20	94.00	6957.60	1923.91	-1923.65	32.59	1923.92	179.03	1.37	SlimPulse	9	0	0
80	8206.00	90.40	178.39	95.00	6957.37	2018.89	-2018.61	35.42	2018.93	178.99	0.58	SlimPulse	9	0	0
81	8300.00	89.85	178.99	94.00	6957.16	2112.89	-2112.58	37.56	2112.93	178.98	0.87	SlimPulse	9	0	0
82	8394.00	90.13	180.16	94.00	6957.18	2206.88	-2206.58	38.26	2206.92	179.01	1.28	SlimPulse	9	0	0
83	8489.00	90.34	181.58	95.00	6956.79	2301.84	-2301.56	36.82	2301.87	179.08	1.51	SlimPulse	9	0	0
84	8584.00	90.23	181.81	95.00	6956.32	2396.76	-2396.52	34.01	2396.75	179.19	0.27	SlimPulse	9	0	0
85	8678.00	90.37	182.03	94.00	6955.82	2490.66	-2490.46	30.86	2490.65	179.29	0.28	SlimPulse	9	0	0
86	8773.00	89.41	182.44	95.00	6956.01	2585.53	-2585.39	27.15	2585.53	179.40	1.10	SlimPulse	9	0	0
87	8868.00	89.24	182.21	95.00	6957.13	2680.38	-2680.31	23.30	2680.41	179.50	0.30	SlimPulse	9	0	0
88	8962.00	89.07	181.20	94.00	6958.51	2774.29	-2774.25	20.50	2774.34	179.58	1.09	SlimPulse	9	0	0
89	9057.00	89.24	180.00	95.00	6959.91	2869.25	-2869.23	19.51	2869.29	179.61	1.28	SlimPulse	9	0	0
90	9151.00	89.92	179.27	94.00	6960.60	2963.25	-2963.23	20.11	2963.29	179.61	1.06	SlimPulse	9	0	0
91	9246.00	90.20	178.90	95.00	6960.50	3058.24	-3058.22	21.63	3058.30	179.59	0.49	SlimPulse	9	0	0
92	9341.00	90.44	178.90	95.00	6959.97	3153.24	-3153.20	23.45	3153.28	179.57	0.25	SlimPulse	9	0	0
93	9436.00	90.41	178.98	95.00	6959.27	3248.24	-3248.18	25.21	3248.26	179.56	0.09	SlimPulse	9	0	0
94	9530.00	90.34	178.56	94.00	6958.65	3342.23	-3342.16	27.22	3342.26	179.53	0.45	SlimPulse	9	0	0
95	9625.00	90.37	177.91	95.00	6958.06	3437.21	-3437.11	30.15	3437.24	179.50	0.68	SlimPulse	9	0	0
96	9719.00	90.17	178.15	94.00	6957.62	3531.19	-3531.05	33.38	3531.20	179.46	0.33	SlimPulse	9	0	0
97	9814.00	90.10	178.67	95.00	6957.40	3626.18	-3626.01	36.02	3626.18	179.43	0.55	SlimPulse	9	0	0
98	9909.00	90.34	178.64	95.00	6957.03	3721.17	-3720.99	38.25	3721.19	179.41	0.25	SlimPulse	9	0	0
99	10003.00	90.13	177.70	94.00	6956.65	3815.15	-3814.94	41.25	3815.16	179.38	1.02	SlimPulse	9	0	0
100	10098.00	90.34	178.64	95.00	6956.26	3910.13	-3909.89	44.28	3910.14	179.35	1.01	SlimPulse	9	0	0
101	10193.00	90.00	178.98	95.00	6955.98	4005.13	-4004.87	46.26	4005.12	179.34	0.51	SlimPulse	9	0	0
102	10287.00	89.79	179.23	94.00	6956.15	4099.13	-4098.85	47.72	4099.15	179.33	0.35	SlimPulse	9	0	0
103	10382.00	90.58	179.97	95.00	6955.84	4194.13	-4193.85	48.39	4194.13	179.34	1.14	SlimPulse	9	0	0
104	10474.00	90.27	180.04	92.00	6955.16	4286.12	-4285.85	48.38	4286.12	179.35	0.35	SlimPulse	9	0	0
105	10566.00	90.24	179.63	92.00	6954.75	4378.11	-4377.85	48.64	4378.12	179.36	0.45	SlimPulse	9	0	0
106	10657.00	90.24	179.16	91.00	6954.37	4469.11	-4468.84	49.61	4469.13	179.36	0.52	SlimPulse	9	0	0
107	10749.00	90.51	179.75	92.00	6953.77	4561.11	-4560.83	50.48	4561.12	179.37	0.71	SlimPulse	9	0	0
108	10840.00	90.72	180.14	91.00	6952.79	4652.09	-4651.83	50.57	4652.10	179.38	0.49	SlimPulse	9	0	0
109	10932.00	89.82	178.64	92.00	6952.36	4744.09	-4743.82	51.55	4744.09	179.38	1.90	SlimPulse	9	0	0
110	11023.00	89.89	179.55	91.00	6952.59	4835.09	-4834.80	52.98	4835.10	179.37	1.00	SlimPulse	9	0	0
111	11114.00	89.69	179.81	91.00	6952.92	4926.08	-4925.80	53.49	4926.08	179.38	0.36	SlimPulse	9	0	0
112	11206.00	89.69	179.83	92.00	6953.42	5018.08	-5017.80	53.78	5018.08	179.39	0.02	SlimPulse	9	0	0
113	11298.00	89.65	179.71	92.00	6953.95	5110.07	-5109.80	54.15	5110.07	179.39	0.14	SlimPulse	9	0	0
114	11390.00	89.34	179.03	92.00	6954.76	5202.07	-5201.79	55.16	5202.07	179.39	0.81	SlimPulse	9	0	0
115	11481.00	89.03	176.91	91.00	6956.05	5293.03	-5292.72	58.39	5293.04	179.37	2.35	SlimPulse	9	0	0
116	11573.00	89.51	177.06	92.00	6957.22	5384.95	-5384.58	63.22	5384.94	179.33	0.55	SlimPulse	9	0	0
117	11664.00	90.55	178.57	91.00	6957.18	5475.92	-5475.51	66.69	5475.92	179.30	2.01	SlimPulse	9	0	0
118	11755.00	90.34	177.92	91.00	6956.47	5566.90	-5566.47	69.48	5566.90	179.28	0.75	SlimPulse	9	0	0
119	11846.00	90.96	176.70	91.00	6955.44	5657.84	-5657.36	73.75	5657.84	179.25	1.50	SlimPulse	9	0	0
120	11941.00	90.37	178.54	95.00	6954.34	5752.79	-5752.26	77.70	5752.79	179.23	2.03	SlimPulse	9	0	0
121	12036.00	90.06	178.65	95.00	6953.98	5847.78	-5847.24	80.02	5847.77	179.22	0.35	SlimPulse	9	0	0
122	12130.00	90.17	178.48	94.00	6953.79	5941.77	-5941.21	82.38	5941.77	179.21	0.22	SlimPulse	9	0	0
123	12225.00	90.24	178.51	95.00	6953.45	6036.76	-6036.17	84.87	6036.78	179.19	0.08	SlimPulse	9	0	0
124	12320.00	90.10	177.58	95.00	6953.17	6131.74	-6131.12	88.11	6131.76	179.18	0.99	SlimPulse	9	0	0
125	12414.00	90.37	178.89	94.00	6952.78	6225.72	-6225.07	91.01	6225.72	179.16	1.42	SlimPulse	9	0	0

126	12509.00	89.96	179.28	95.00	6952.51	6320.72	-6320.06	92.53	6320.73	179.16	0.60	SlimPulse	9	0	0
127	12604.00	90.00	178.33	95.00	6952.54	6415.72	-6415.03	94.51	6415.72	179.16	1.00	SlimPulse	9	0	0
128	12698.00	89.34	177.67	94.00	6953.08	6509.69	-6508.97	97.79	6509.71	179.14	0.99	SlimPulse	9	0	0
129	12793.00	89.65	178.97	95.00	6953.92	6604.67	-6603.93	100.57	6604.69	179.13	1.41	SlimPulse	9	0	0
130	12887.00	89.58	180.59	94.00	6954.55	6698.66	-6697.92	100.93	6698.69	179.14	1.72	SlimPulse	9	0	0
131	12982.00	89.27	181.50	95.00	6955.51	6793.61	-6792.90	99.20	6793.64	179.16	1.01	SlimPulse	9	0	0
132	13077.00	89.24	181.27	95.00	6956.74	6888.54	-6887.86	96.91	6888.55	179.19	0.24	SlimPulse	9	0	0
133	13172.00	89.28	180.95	95.00	6957.97	6983.48	-6982.84	95.07	6983.50	179.22	0.34	SlimPulse	9	0	0
134	13266.00	89.62	180.48	94.00	6958.87	7077.45	-7076.83	93.89	7077.46	179.24	0.62	SlimPulse	9	0	0
135	13361.00	90.00	179.63	95.00	6959.19	7172.44	-7171.82	93.80	7172.44	179.25	0.98	SlimPulse	9	0	0
136	13456.00	89.96	180.64	95.00	6959.22	7267.42	-7266.82	93.58	7267.42	179.26	1.06	SlimPulse	9	0	0
137	13551.00	90.72	182.87	95.00	6958.65	7362.33	-7361.77	90.67	7362.34	179.29	2.48	SlimPulse	9	0	0
138	13645.00	90.03	180.31	94.00	6958.04	7456.24	-7455.72	88.06	7456.23	179.32	2.82	SlimPulse	9	0	0
139	13740.00	90.27	180.90	95.00	6957.79	7551.21	-7550.72	87.06	7551.21	179.34	0.67	SlimPulse	9	0	0
140	13835.00	90.17	180.34	95.00	6957.43	7646.19	-7645.71	86.03	7646.19	179.36	0.60	SlimPulse	9	0	0
141	13929.00	90.03	179.10	94.00	6957.26	7740.18	-7739.71	86.49	7740.19	179.36	1.33	SlimPulse	9	0	0
142	14024.00	90.14	177.73	95.00	6957.12	7835.17	-7834.67	89.12	7835.17	179.35	1.45	SlimPulse	9	0	0
143	14118.00	89.93	178.09	94.00	6957.06	7929.14	-7928.61	92.54	7929.13	179.33	0.44	SlimPulse	9	0	0
144	14212.00	89.93	177.84	94.00	6957.18	8023.12	-8022.55	95.88	8023.13	179.32	0.27	SlimPulse	9	0	0
145	14306.00	89.96	177.37	94.00	6957.27	8117.08	-8116.46	99.81	8117.09	179.30	0.50	SlimPulse	9	0	0
146	14400.00	90.20	180.11	94.00	6957.14	8211.06	-8210.43	101.88	8211.06	179.29	2.93	SlimPulse	9	0	0
147	14495.00	90.62	178.64	95.00	6956.46	8306.06	-8305.42	102.91	8306.07	179.29	1.61	SlimPulse	9	0	0
148	14588.00	89.96	177.75	93.00	6955.99	8399.04	-8398.37	105.84	8399.05	179.28	1.19	SlimPulse	9	0	0
149	14683.00	90.58	178.44	95.00	6955.54	8494.02	-8493.32	109.00	8494.03	179.26	0.98	SlimPulse	9	0	0
150	14777.00	90.03	178.12	94.00	6955.04	8588.00	-8587.27	111.82	8587.99	179.25	0.68	SlimPulse	9	0	0
151	14871.00	90.07	178.51	94.00	6954.96	8681.99	-8681.23	114.59	8681.99	179.24	0.42	SlimPulse	9	0	0
152	14966.00	90.00	178.98	95.00	6954.90	8776.98	-8776.21	116.67	8776.97	179.24	0.50	SlimPulse	9	0	0
153	15060.00	89.76	178.37	94.00	6955.10	8870.98	-8870.18	118.84	8870.96	179.23	0.70	SlimPulse	9	0	0
154	15155.00	89.96	178.29	95.00	6955.33	8965.96	-8965.14	121.61	8965.98	179.22	0.23	SlimPulse	9	0	0
155	15249.00	90.41	177.40	94.00	6955.02	9059.93	-9059.07	125.14	9059.94	179.21	1.06	SlimPulse	9	0	0
156	15343.00	90.38	178.62	94.00	6954.38	9153.91	-9153.01	128.41	9153.90	179.20	1.30	SlimPulse	9	0	0
157	15438.00	90.38	178.69	95.00	6953.75	9248.90	-9247.99	130.64	9248.92	179.19	0.07	SlimPulse	9	0	0
158	15531.00	90.03	178.53	93.00	6953.41	9341.89	-9340.96	132.89	9341.90	179.18	0.41	SlimPulse	9	0	0
159	15626.00	89.65	178.56	95.00	6953.68	9436.88	-9435.93	135.31	9436.91	179.18	0.40	SlimPulse	9	0	0
160	15720.00	90.03	179.65	94.00	6953.94	9530.88	-9529.91	136.77	9530.91	179.18	1.23	SlimPulse	9	0	0
161	15814.00	89.52	177.20	94.00	6954.31	9624.86	-9623.87	139.36	9624.87	179.17	2.66	SlimPulse	9	0	0
162	15908.00	90.07	179.04	94.00	6954.65	9718.84	-9717.81	142.44	9718.86	179.16	2.04	SlimPulse	9	0	0
163	16002.00	90.10	178.75	94.00	6954.51	9812.84	-9811.80	144.25	9812.86	179.16	0.31	SlimPulse	9	0	0
164	16097.00	89.79	179.42	95.00	6954.60	9907.84	-9906.78	145.77	9907.84	179.16	0.78	SlimPulse	9	0	0
165	16193.00	89.69	178.95	96.00	6955.03	10003.83	-10002.77	147.14	10003.84	179.16	0.50	SlimPulse	9	0	0
166	16290.00	89.72	179.33	97.00	6955.53	10100.83	-10099.76	148.59	10100.85	179.16	0.39	SlimPulse	9	0	0
167	16386.00	90.17	178.02	96.00	6955.63	10196.83	-10195.73	150.81	10196.85	179.15	1.44	SlimPulse	9	0	0
168	16483.00	89.59	178.96	97.00	6955.83	10293.81	-10292.70	153.37	10293.83	179.15	1.14	SlimPulse	9	0	0
169	16578.00	89.55	179.74	95.00	6956.54	10388.81	-10387.69	154.45	10388.85	179.15	0.82	SlimPulse	9	0	0
170	16611.00	89.76	180.73	33.00	6956.74	10421.81	-10420.69	154.31	10421.82	179.15	3.07	SlimPulse	9	0	0
171	16650.00	89.76	180.73	39.00	6956.90	10460.79	-10459.68	153.81	10460.83	179.16	0.00	Other	9	0	7

SPULSE-GEN (SlimPulse with Generic Collar) Calibration - Run Run01

Primary Equipment :	Elec. cartridge, 150C max with GR	SPEC
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GRGain - Gamma Ray: Blanket

Master (Time Frame File):	12:00:00 03-Oct-2015						
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Gamma Ray Calibration Gain		Master	1.0000	0.9000	1.0413	1.1000	

Company: Noble Energy Inc

Well: Moser #H34-769

Field: Wattenberg

County: Weld



State: Colorado
Country: United States



The Schlumberger logo, consisting of the word "Schlumberger" in a bold, white, sans-serif font.

SlimPulse - Gamma Ray

1 in. / 100 ft., Measured Depth

Composite Log, Recorded Mode