

SlimPulse - Gamma Ray
1in/100ft True Vertical Depth
Recorded Mode, Composite Log

Schlumberger

Company: Noble Energy Inc.

Well: NUGENT LD06-655

Field: Wildcat

County: Weld

State: Colorado

Country: United States of America

Section: 5 UWID: 05-123-40808

Township: 9N Rig Name: H&P 517

Range: 58W Rig Type: Land Rig - Top Drive

FL: NAD83 Colorado State Plane, Northern Zone, US Feet

FL1: Northing: 1,531,566;373 ftUS

FL2: Easting: 3,448,532.706 ftUS

Log Measured From: - Drill Floor: 4791.00 ft
Ground Level: 4761.00 ft

Permanent Datum: - Mean Sea Level

Acquisition Dates: 31-Jul-2016 -- 05-Aug-2016

Log Interval: 1937.81(ft)TVD -- 5765.09(ft)TVD

Index Types: True Vertical Depth Directional Drilling

Index Scales: 1:600 2" / 100', 1:1200 1" / 100'

Depth Source: Driller's Depth

Depth Sensor: DES

Print Type: Final

Spud Date: 31-JUL-2016

Disclaimer

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Composite 1

Software Version

Acquisition System

Maxwell 2016 SP2

Version

6.2.64464.3100

Composite Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Include Parallel Data
RUN001	Drilling	Down	1937.83 ft	5999.92 ft	31-Jul-2016 7:30:26 PM	01-Aug-2016 6:35:30 PM	Yes
RUN002	Drilling	Down	5999.08 ft	6283.33 ft	02-Aug-2016 12:48:24 AM	02-Aug-2016 9:42:54 AM	Yes
RUN003	Drilling	Down	6282.92 ft	16118.92 ft	02-Aug-2016 9:42:59 AM	05-Aug-2016 6:32:21 AM	Yes

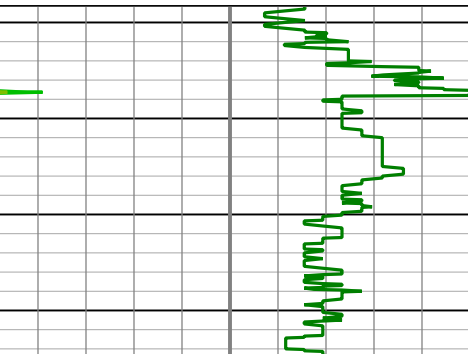
All depths are referenced to toolstring zero

Log

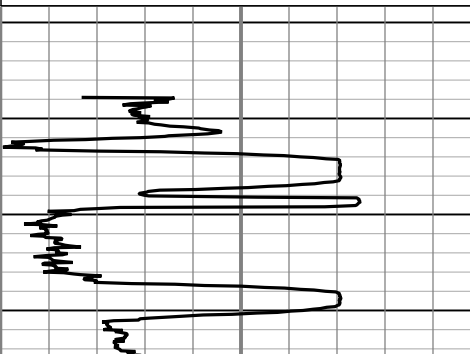
Company:Noble Energy Inc. Well:NUGENT LD06-655
Composite 1:S403

Description: SlimPulse Gamma Ray 1 Format: Log (2TVD EOW) Index Scale: 1 in per 100 ft Index Unit: ft Index Type: TVD Creation Date: 05-Aug-2016 13:39:10

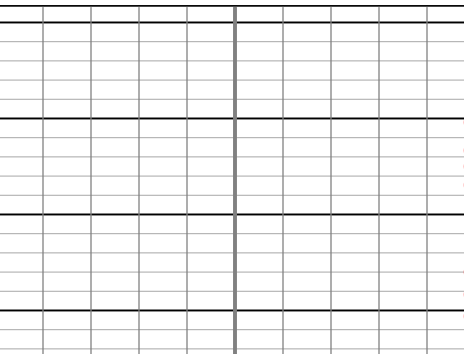
Gamma Ray (GR_SPULSE_BHC) SlimPulse[1] RM		
0	gAPI	150
Gamma Ray (GR_SPULSE_BHC) SlimPulse[1] RM		
150	gAPI	300
Gamma Ray (GR_SPULSE_BHC) SlimPulse[1] RM		
300	gAPI	450
Gamma Ray (GR_SPULSE_BHC) SlimPulse[1] RM		
150	gAPI	600
Gamma Ray (GR_SPULSE_BHC) SlimPulse[1] RM		
600	gAPI	750

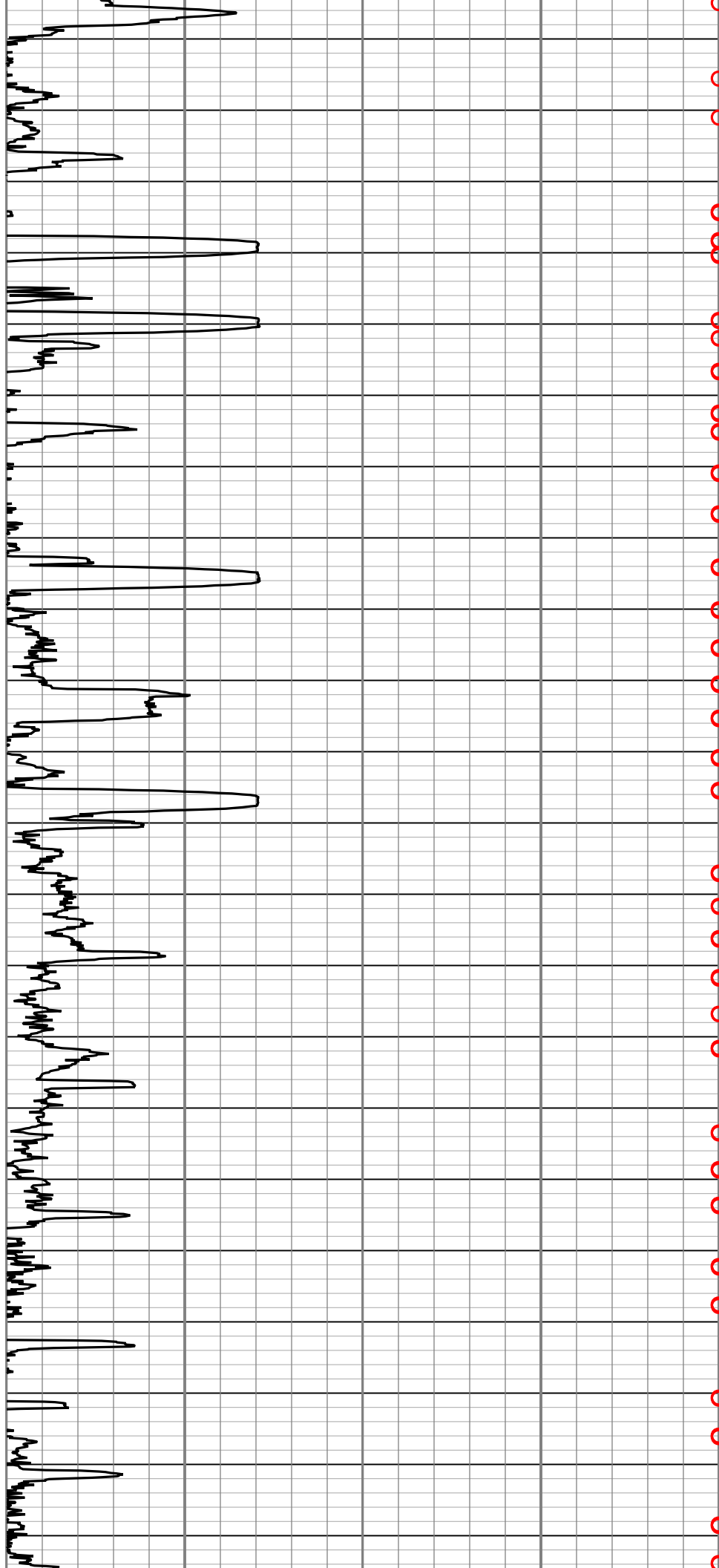
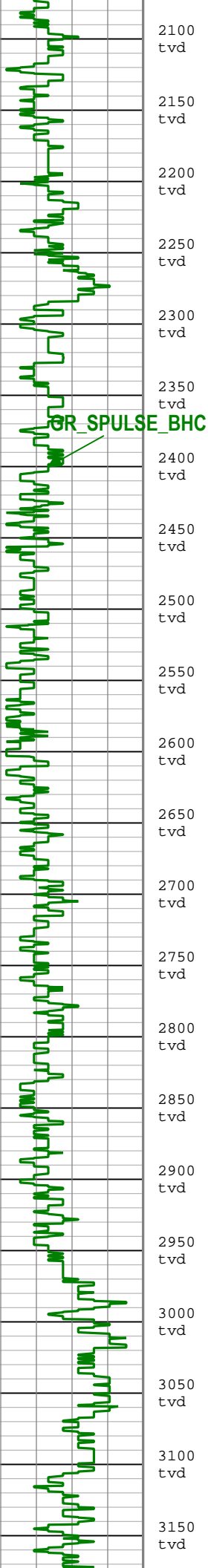


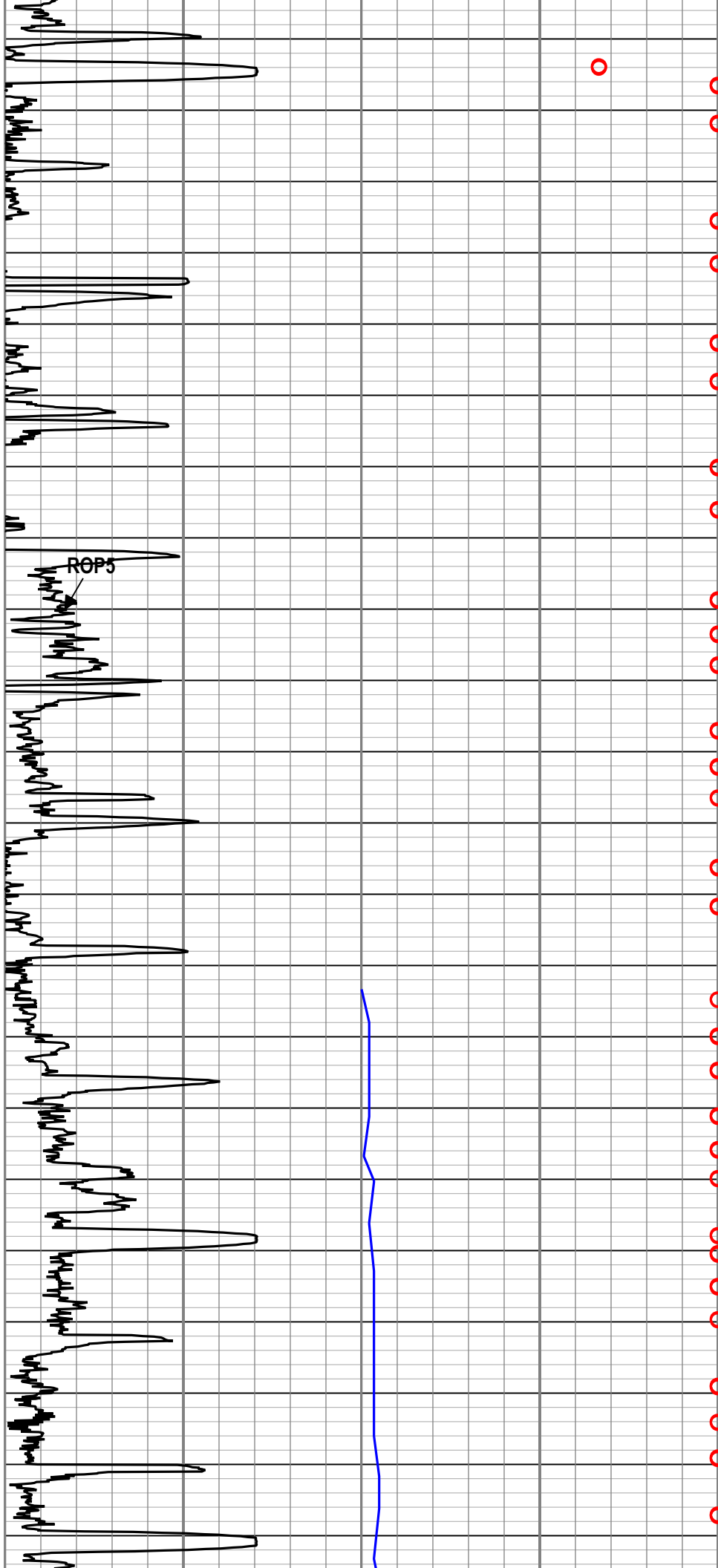
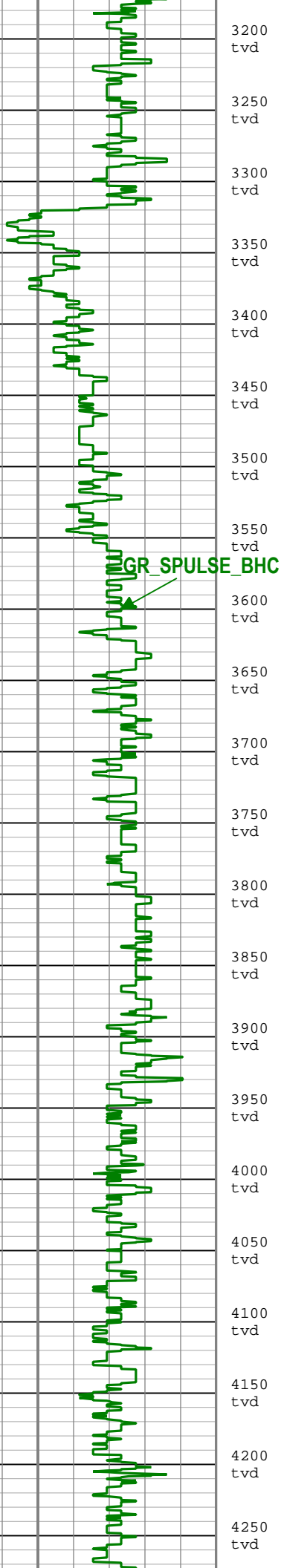
Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT		
500	ft/h	0

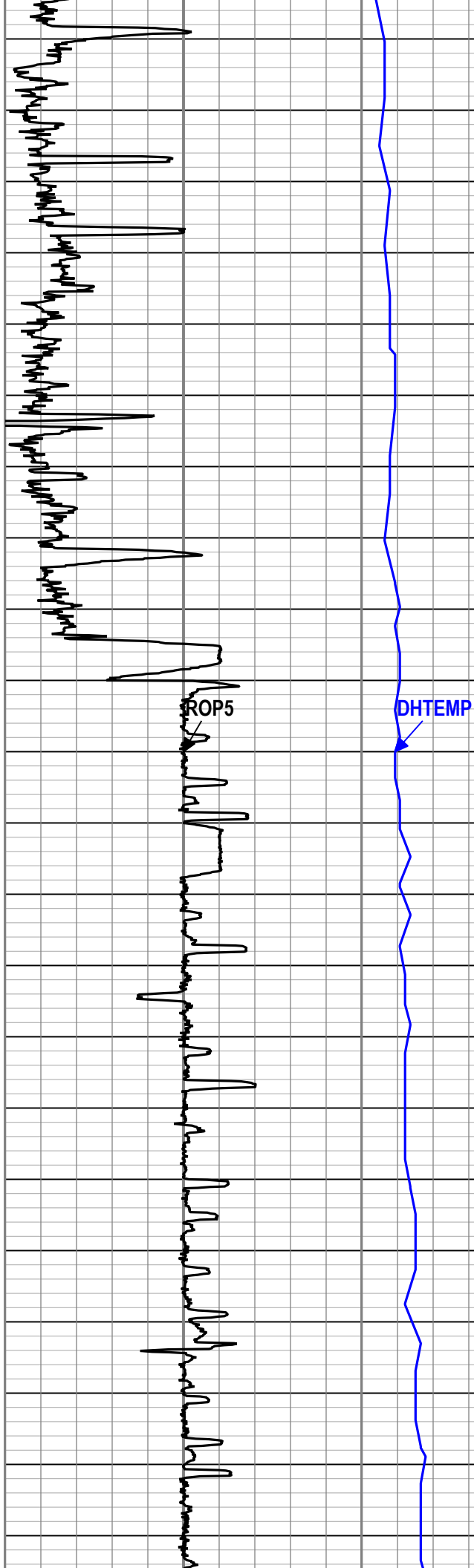
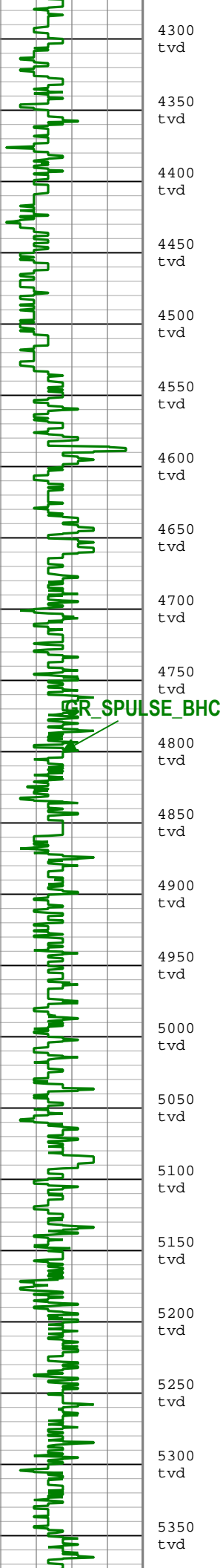


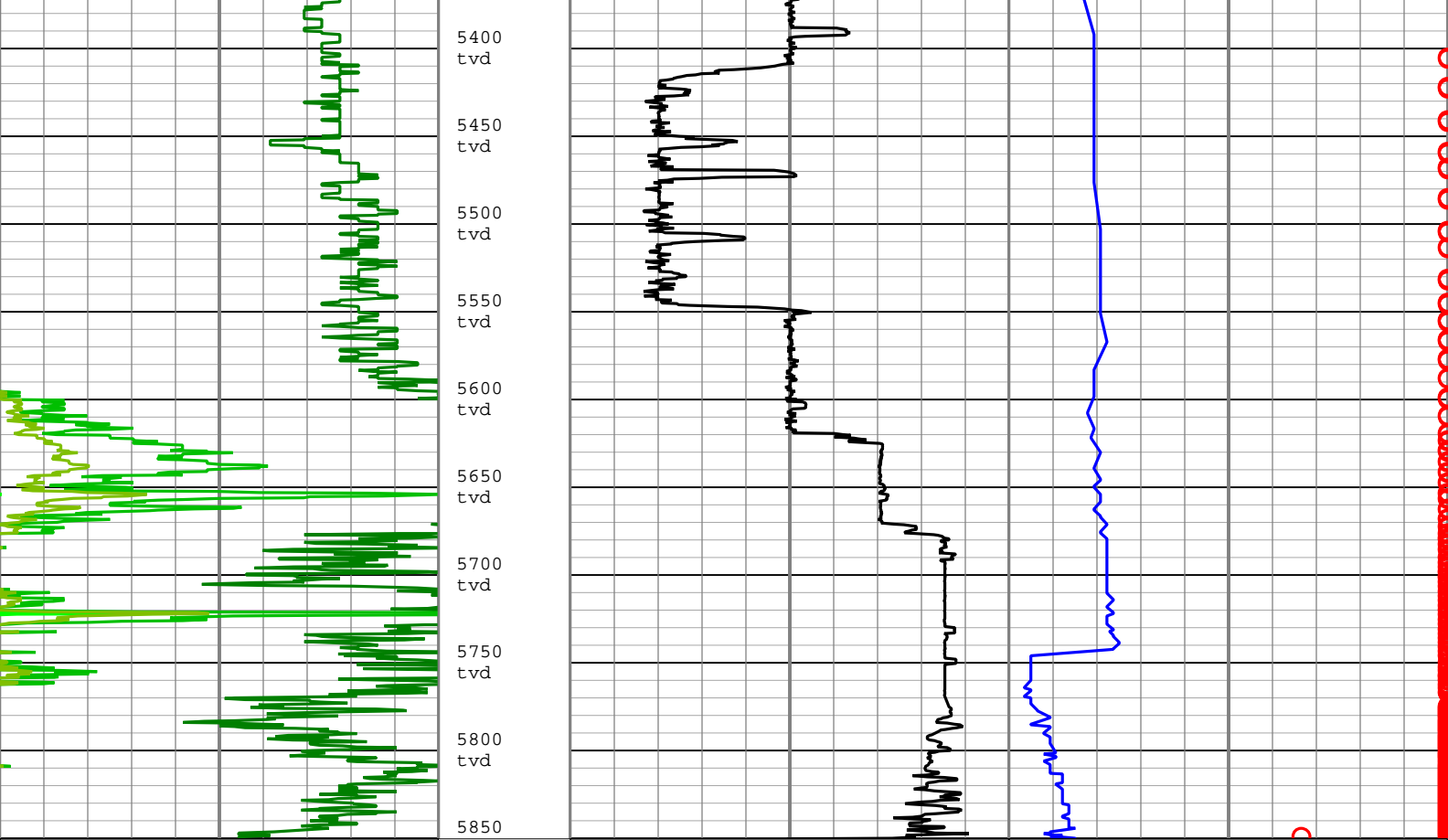
Tool Temperature (DHTEMP) SlimPulse[1] RM		
150	degF	275
Shock Risk (SHKRSK_RT) SlimPulse[1] RT		
3		0











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
Gamma Ray (GR_SPULSE_BHC) SlimPulse[1] RM		
150	gAPI	600
Gamma Ray (GR_SPULSE_BHC) SlimPulse[1] RM		
600	gAPI	750

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

Tool Temperature (DHTEMP) SlimPulse[1] RM		
150	degF	275
Shock Risk (SHKRSK_RT) SlimPulse[1] RT		
3		0

Description: SlimPulse Gamma Ray 1 Format: Log (2TVD EOW) Index Scale: 1 in per 100 ft Index Unit: ft Index Type: TVD Creation Date: 05-Aug-2016 13:39:10

Channel Processing Parameters

RUN001: Parameters

Parameter	Description	Tool	Value	Unit
BS	Bit Size	DNMSESSION	Depth Zoned	in
DFD	Drilling Fluid Density	Borehole	10.05	lbm/gal
GR_SRC	GR Source Selection	SPULSE-GEN	GAMMA_EXT	

RUN001Depth Zoned Parameters

Parameter	Value	Start (ft)	Stop (ft)
BS	12.25	1000.00	1000.00

BS	12.25	1892.06	1938.06		
BS	8.5	1938.06	5768.29		
All depth are actual.					
RUN002: Parameters					
Parameter	Description	Tool	Value	Unit	
BS	Bit Size	DNMSESSION	8.5	in	
DFD	Drilling Fluid Density	Borehole	10	lbm/gal	
GR_SRC	GR Source Selection	SPULSE-GEN	GAMMA_EXT		
RUN003: Parameters					
Parameter	Description	Tool	Value	Unit	
BS	Bit Size	DNMSESSION	8.5	in	
DFD	Drilling Fluid Density	Borehole	10	lbm/gal	
GR_SRC	GR Source Selection	SPULSE-GEN	GAMMA_EXT		
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 :		1.05 deg			
Rig Location					
Latitude :		40° 46' 52.248" N	Longitude :	103° 52' 49.188" 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:	268.99 deg
D&I Inits Computed and Values Used - RUN001					
Geomagnetic Model :		HDGM 2015	Geomagnetic Date :		01-Aug-2016
Computed Location B :		52798.89 nT +/- 300.00nT	Used Location B :		52812.95 nT +/- 300.00nT
Computed Location G :		999.58 mgn +/- 2.50mgn	Used Location G :		999.10 mgn +/- 2.50mgn
Computed Magnetic Dip :		67.25 deg +/- 0.45deg	Used Magnetic Dip :		67.26 deg +/- 0.45deg
Computed Magnetic Dec :		7.70 deg	Used Magnetic Dec :		7.72 deg
Computed Total Correction :		6.65 deg	Used Total Correction :		6.67 deg
D&I Inits Computed and Values Used - RUN002					
Geomagnetic Model :		HDGM 2015	Geomagnetic Date :		01-Aug-2016
Computed Location B :		52798.89 nT +/- 300.00nT	Used Location B :		52813.94 nT +/- 300.00nT
Computed Location G :		999.58 mgn +/- 2.50mgn	Used Location G :		999.10 mgn +/- 2.50mgn
Computed Magnetic Dip :		67.25 deg +/- 0.45deg	Used Magnetic Dip :		67.26 deg +/- 0.45deg
Computed Magnetic Dec :		7.70 deg	Used Magnetic Dec :		7.72 deg
Computed Total Correction :		6.65 deg	Used Total Correction :		6.67 deg
D&I Inits Computed and Values Used - RUN003					
Geomagnetic Model :		HDGM 2015	Geomagnetic Date :		02-Aug-2016
Computed Location B :		52798.56 nT +/- 300.00nT	Used Location B :		52813.94 nT +/- 300.00nT
Computed Location G :		999.58 mgn +/- 2.50mgn	Used Location G :		999.10 mgn +/- 2.50mgn
Computed Magnetic Dip :		67.25 deg +/- 0.45deg	Used Magnetic Dip :		67.26 deg +/- 0.45deg
Computed Magnetic Dec :		7.70 deg	Used Magnetic Dec :		7.72 deg
Computed Total Correction :		6.65 deg	Used Total Correction :		6.67 deg
Survey Quality Index					
9 : Manual		28 : Tie-In Point			
Survey Correction Index					
0 : No correction					
Survey Description Index					
0 : Not Flagged Survey		3 : DMAG-SAG Corrected 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	78.00	0.49	88.11	78.00	78.00	-0.33	0.01	0.33	0.33	88.11	0.63	GyroTool	9	0	0
3	177.00	0.67	105.91	99.00	176.99	-1.31	-0.13	1.31	1.31	95.81	0.26	GyroTool	9	0	0
4	271.00	0.23	166.14	94.00	270.99	-1.88	-0.47	1.89	1.94	103.92	0.63	GyroTool	9	0	0
5	366.00	0.01	318.71	95.00	365.99	-1.92	-0.65	1.93	2.03	108.54	0.25	GyroTool	9	0	0
6	460.00	0.02	41.19	94.00	459.99	-1.92	-0.63	1.93	2.03	108.00	0.02	GyroTool	9	0	0
7	555.00	0.10	15.63	95.00	554.99	-1.96	-0.54	1.97	2.03	105.24	0.09	GyroTool	9	0	0
8	650.00	0.25	70.57	95.00	649.99	-2.18	-0.39	2.18	2.23	100.05	0.22	GyroTool	9	0	0
9	744.00	0.30	109.13	94.00	743.99	-2.60	-0.40	2.61	2.62	98.70	0.20	GyroTool	9	0	0
10	839.00	0.29	114.37	95.00	838.99	-3.05	-0.58	3.06	3.12	100.72	0.03	GyroTool	9	0	0
11	934.00	0.29	48.37	95.00	933.99	-3.45	-0.52	3.46	3.51	98.53	0.33	GyroTool	9	0	0
12	1028.00	0.21	178.74	94.00	1027.99	-3.63	-0.53	3.64	3.67	98.33	0.48	GyroTool	9	0	0
13	1123.00	0.14	130.60	95.00	1122.99	-3.72	-0.78	3.74	3.81	101.84	0.16	GyroTool	9	0	0
14	1217.00	0.17	76.51	94.00	1216.99	-3.94	-0.83	3.96	4.04	101.78	0.15	GyroTool	9	0	0
15	1311.00	0.30	300.15	94.00	1310.99	-3.87	-0.67	3.88	3.94	99.78	0.47	GyroTool	9	0	0
16	1406.00	0.37	6.75	95.00	1405.98	-3.70	-0.24	3.70	3.71	93.71	0.39	GyroTool	9	0	0
17	1501.00	0.34	76.93	95.00	1500.98	-4.01	0.13	4.01	4.00	88.16	0.43	GyroTool	9	0	0
18	1595.00	0.09	141.35	94.00	1594.98	-4.33	0.13	4.33	4.33	88.23	0.33	GyroTool	9	0	0
19	1689.00	0.36	86.70	94.00	1688.98	-4.67	0.09	4.67	4.66	88.86	0.34	GyroTool	9	0	0
20	1784.00	0.45	43.63	95.00	1783.98	-5.23	0.38	5.23	5.25	85.84	0.33	GyroTool	9	0	0
21	1879.00	0.44	35.70	95.00	1878.98	-5.71	0.95	5.70	5.77	80.56	0.07	GyroTool	9	0	0
22	1917.00	0.41	45.95	38.00	1916.98	-5.90	1.16	5.88	6.00	78.84	0.21	GyroTool	9	0	0
23	1948.00	0.69	105.73	31.00	1947.97	-6.16	1.19	6.14	6.27	79.06	1.93	SlimPulse	9	0	3
24	2042.00	0.89	109.57	94.00	2041.97	-7.38	0.79	7.37	7.41	83.90	0.22	SlimPulse	9	0	3
25	2137.00	1.71	76.92	95.00	2136.94	-9.46	0.86	9.45	9.48	84.79	1.13	SlimPulse	9	0	3
26	2232.00	3.07	76.01	95.00	2231.86	-13.33	1.80	13.30	13.42	82.30	1.43	SlimPulse	9	0	3
27	2326.00	4.57	74.26	94.00	2325.64	-19.40	3.42	19.34	19.65	79.97	1.60	SlimPulse	9	0	3
28	2420.00	6.21	74.47	94.00	2419.23	-27.95	5.80	27.85	28.44	78.24	1.74	SlimPulse	9	0	3
29	2515.00	8.78	78.76	95.00	2513.41	-40.06	8.59	39.91	40.81	77.86	2.77	SlimPulse	9	0	3
30	2609.00	11.49	80.36	94.00	2605.93	-56.38	11.56	56.18	57.35	78.38	2.90	SlimPulse	9	0	3
31	2704.00	14.37	82.91	95.00	2698.51	-77.46	14.60	77.21	78.58	79.30	3.09	SlimPulse	9	0	3
32	2798.00	14.80	83.88	94.00	2789.49	-101.02	17.32	100.73	102.20	80.25	0.53	SlimPulse	9	0	3
33	2892.00	15.17	83.33	94.00	2880.29	-125.21	20.02	124.88	126.48	80.89	0.42	SlimPulse	9	0	3
34	2987.00	14.90	82.76	95.00	2972.04	-149.72	23.01	149.34	151.12	81.24	0.32	SlimPulse	9	0	3
35	3082.00	14.87	82.79	95.00	3063.85	-173.98	26.08	173.55	175.49	81.46	0.03	SlimPulse	9	0	3
36	3176.00	14.92	83.51	94.00	3154.69	-198.02	28.96	197.54	199.64	81.66	0.20	SlimPulse	9	0	3
37	3271.00	15.11	84.44	95.00	3246.45	-222.54	31.54	222.02	224.25	81.91	0.32	SlimPulse	9	0	3
38	3365.00	15.09	90.99	94.00	3337.21	-246.98	32.52	246.45	248.59	82.48	1.81	SlimPulse	9	0	3
39	3460.00	15.04	91.08	95.00	3428.94	-271.66	32.07	271.13	273.03	83.25	0.06	SlimPulse	9	0	3
40	3554.00	14.96	91.64	94.00	3519.74	-295.97	31.49	295.46	297.15	83.92	0.18	SlimPulse	9	0	3
41	3649.00	15.14	91.10	95.00	3611.48	-320.61	30.90	320.12	321.62	84.49	0.24	SlimPulse	9	0	3
42	3743.00	14.99	91.37	94.00	3702.25	-345.02	30.38	344.54	345.87	84.96	0.18	SlimPulse	9	0	3
43	3838.00	15.05	90.63	95.00	3794.00	-369.63	29.95	369.16	370.37	85.36	0.21	SlimPulse	9	0	3
44	3932.00	15.05	90.19	94.00	3884.78	-394.03	29.77	393.57	394.69	85.67	0.12	SlimPulse	9	0	3
45	4027.00	15.19	90.78	95.00	3976.49	-418.80	29.56	418.34	419.39	85.96	0.22	SlimPulse	9	0	3
46	4122.00	14.89	91.36	95.00	4068.24	-443.44	29.10	442.99	443.96	86.24	0.35	SlimPulse	9	0	3
47	4216.00	15.07	82.03	94.00	4159.06	-467.64	30.51	467.17	468.18	86.26	2.57	SlimPulse	9	0	3
48	4311.00	15.17	83.01	95.00	4250.77	-492.26	33.74	491.74	492.88	86.08	0.29	SlimPulse	9	0	3
49	4406.00	15.75	82.44	95.00	4342.33	-517.43	36.95	516.86	518.18	85.91	0.63	SlimPulse	9	0	3
50	4500.00	15.59	82.16	94.00	4432.84	-542.65	40.35	542.02	543.50	85.74	0.19	SlimPulse	9	0	3

51	4595.00	15.45	84.73	95.00	4524.37	-567.94	43.25	567.27	568.90	85.64	0.74	SlimPulse	9	0	3
52	4690.00	15.30	82.60	95.00	4615.97	-593.02	46.03	592.30	594.09	85.56	0.62	SlimPulse	9	0	3
53	4785.00	15.59	81.48	95.00	4707.54	-618.13	49.53	617.35	619.32	85.41	0.44	SlimPulse	9	0	3
54	4879.00	10.88	91.66	94.00	4799.03	-639.53	51.15	638.73	640.78	85.42	5.57	SlimPulse	9	0	3
55	4974.00	4.97	113.54	95.00	4893.10	-652.24	49.24	651.47	653.35	85.68	6.88	SlimPulse	9	0	3
56	5068.00	3.35	227.02	94.00	4986.96	-653.90	45.74	653.20	654.79	85.99	7.46	SlimPulse	9	0	3
57	5163.00	9.74	257.61	95.00	5081.32	-643.95	42.12	643.31	644.69	86.25	7.43	SlimPulse	9	0	3
58	5258.00	15.53	262.55	95.00	5173.98	-623.42	38.74	622.83	624.05	86.44	6.19	SlimPulse	9	0	3
59	5352.00	21.12	262.18	94.00	5263.18	-594.07	34.80	593.55	594.59	86.64	5.95	SlimPulse	9	0	3
60	5447.00	26.49	259.66	95.00	5350.07	-556.14	28.67	555.72	556.46	87.05	5.75	SlimPulse	9	0	3
61	5541.00	31.28	258.71	94.00	5432.35	-511.42	20.12	511.14	511.55	87.75	5.12	SlimPulse	9	0	3
62	5636.00	35.42	259.51	95.00	5511.69	-459.98	10.28	459.87	459.97	88.72	4.38	SlimPulse	9	0	3
63	5730.00	39.38	262.77	94.00	5586.35	-403.44	1.56	403.47	403.48	89.78	4.71	SlimPulse	9	0	3
64	5825.00	44.10	264.22	95.00	5657.22	-340.50	-5.57	340.65	340.68	90.94	5.07	SlimPulse	9	0	3
65	5920.00	50.68	266.09	95.00	5721.51	-270.78	-11.41	271.02	271.26	92.41	7.08	SlimPulse	9	0	3
66	6003.00	57.81	268.93	83.00	5769.98	-203.50	-14.26	203.78	204.27	94.00	9.03	SlimPulse	9	0	3
67	6035.00	60.96	268.53	32.00	5786.27	-175.96	-14.87	176.25	176.87	94.82	9.90	SlimPulse	9	0	3
68	6067.00	65.09	269.52	32.00	5800.79	-147.45	-15.35	147.74	148.52	95.93	13.20	SlimPulse	9	0	3
69	6099.00	68.91	270.19	32.00	5813.29	-118.00	-15.42	118.29	119.29	97.43	12.09	SlimPulse	9	0	3
70	6193.00	78.45	273.44	94.00	5839.68	-28.02	-12.50	28.24	30.87	113.88	10.68	SlimPulse	9	0	3
71	6225.00	82.91	273.15	32.00	5844.86	3.46	-10.69	-3.27	11.19	197.02	13.97	SlimPulse	9	0	3
72	6298.00	89.36	272.45	73.00	5849.78	76.10	-7.14	-75.98	76.31	264.63	8.89	SlimPulse	9	0	3
73	6393.00	89.80	272.92	95.00	5850.47	170.90	-2.69	-170.87	170.90	269.10	0.68	SlimPulse	9	0	3
74	6487.00	90.28	273.10	94.00	5850.41	264.66	2.25	-264.74	264.76	270.49	0.55	SlimPulse	9	0	3
75	6582.00	90.36	273.19	95.00	5849.88	359.41	7.46	-359.60	359.68	271.19	0.13	SlimPulse	9	0	3
76	6676.00	90.54	272.90	94.00	5849.14	453.17	12.46	-453.46	453.64	271.57	0.36	SlimPulse	9	0	3
77	6771.00	90.40	271.51	95.00	5848.36	548.02	16.11	-548.39	548.62	271.68	1.47	SlimPulse	9	0	3
78	6865.00	90.38	271.26	94.00	5847.72	641.93	18.38	-642.36	642.62	271.64	0.27	SlimPulse	9	0	3
79	6960.00	90.55	270.09	95.00	5846.95	736.89	19.50	-737.35	737.60	271.51	1.24	SlimPulse	9	0	3
80	7055.00	90.34	269.54	95.00	5846.21	831.88	19.19	-832.34	832.58	271.32	0.62	SlimPulse	9	0	3
81	7150.00	90.28	269.66	95.00	5845.70	926.87	18.53	-927.34	927.53	271.14	0.14	SlimPulse	9	0	3
82	7244.00	90.37	269.78	94.00	5845.16	1020.86	18.07	-1021.34	1021.49	271.01	0.16	SlimPulse	9	0	3
83	7339.00	90.85	270.18	95.00	5844.15	1115.84	18.04	-1116.33	1116.47	270.93	0.66	SlimPulse	9	0	3
84	7434.00	90.99	270.28	95.00	5842.63	1210.80	18.42	-1211.32	1211.45	270.87	0.18	SlimPulse	9	0	3
85	7528.00	90.89	269.98	94.00	5841.08	1304.77	18.63	-1305.30	1305.45	270.82	0.34	SlimPulse	9	0	3
86	7623.00	91.06	269.82	95.00	5839.47	1399.75	18.47	-1400.29	1400.43	270.76	0.25	SlimPulse	9	0	3
87	7717.00	91.03	267.89	94.00	5837.75	1493.73	16.59	-1494.25	1494.36	270.64	2.05	SlimPulse	9	0	3
88	7812.00	90.78	268.05	95.00	5836.25	1588.70	13.22	-1589.18	1589.24	270.48	0.31	SlimPulse	9	0	3
89	7907.00	90.81	268.25	95.00	5834.94	1683.68	10.16	-1684.12	1684.15	270.35	0.21	SlimPulse	9	0	3
90	8001.00	90.76	268.11	94.00	5833.65	1777.66	7.17	-1778.07	1778.08	270.23	0.16	SlimPulse	9	0	3
91	8095.00	90.81	268.50	94.00	5832.36	1871.65	4.39	-1872.02	1872.01	270.13	0.42	SlimPulse	9	0	3
92	8190.00	90.77	268.31	95.00	5831.05	1966.63	1.75	-1966.97	1966.96	270.05	0.20	SlimPulse	9	0	3
93	8285.00	90.75	268.11	95.00	5829.79	2061.62	-1.22	-2061.91	2061.91	269.97	0.21	SlimPulse	9	0	3
94	8379.00	91.02	268.62	94.00	5828.34	2155.60	-3.90	-2155.86	2155.87	269.90	0.61	SlimPulse	9	0	3
95	8474.00	90.81	268.25	95.00	5826.82	2250.58	-6.49	-2250.82	2250.82	269.83	0.45	SlimPulse	9	0	3
96	8568.00	90.88	268.29	94.00	5825.43	2344.56	-9.33	-2344.76	2344.78	269.77	0.09	SlimPulse	9	0	3
97	8663.00	90.84	268.32	95.00	5824.01	2439.55	-12.14	-2439.71	2439.73	269.71	0.05	SlimPulse	9	0	3
98	8758.00	90.95	268.58	95.00	5822.52	2534.53	-14.71	-2534.67	2534.71	269.67	0.30	SlimPulse	9	0	3
99	8852.00	90.40	268.35	94.00	5821.42	2628.52	-17.23	-2628.62	2628.67	269.62	0.63	SlimPulse	9	0	3
100	8946.00	90.39	268.35	94.00	5820.77	2722.51	-19.94	-2722.58	2722.67	269.58	0.01	SlimPulse	9	0	3
101	9041.00	90.27	268.31	95.00	5820.22	2817.50	-22.70	-2817.54	2817.62	269.54	0.13	SlimPulse	9	0	3

	9136.00	90.23	268.21	95.00	5819.81	2912.50	-25.59	-2912.50	2912.60	269.50	0.11	SlimPulse	9	0	3
103	9230.00	90.23	268.09	94.00	5819.43	3006.48	-28.62	-3006.45	3006.59	269.45	0.13	SlimPulse	9	0	3
104	9325.00	90.29	268.23	95.00	5819.00	3101.47	-31.67	-3101.40	3101.57	269.41	0.16	SlimPulse	9	0	3
105	9420.00	90.29	268.23	95.00	5818.52	3196.46	-34.61	-3196.35	3196.52	269.38	0.00	SlimPulse	9	0	3
106	9514.00	90.23	267.93	94.00	5818.09	3290.45	-37.76	-3290.30	3290.52	269.34	0.33	SlimPulse	9	0	3
107	9609.00	90.27	268.04	95.00	5817.68	3385.44	-41.10	-3385.24	3385.50	269.30	0.12	SlimPulse	9	0	3
108	9703.00	90.27	268.29	94.00	5817.23	3479.42	-44.11	-3479.19	3479.46	269.27	0.27	SlimPulse	9	0	3
109	9798.00	90.46	268.61	95.00	5816.63	3574.42	-46.68	-3574.15	3574.44	269.25	0.39	SlimPulse	9	0	3
110	9892.00	90.50	268.82	94.00	5815.84	3668.41	-48.78	-3668.12	3668.44	269.24	0.23	SlimPulse	9	0	3
111	9987.00	90.60	268.99	95.00	5814.93	3763.41	-50.60	-3763.10	3763.45	269.23	0.21	SlimPulse	9	0	3
112	10082.00	90.27	268.08	95.00	5814.21	3858.40	-53.03	-3858.07	3858.43	269.21	1.02	SlimPulse	9	0	3
113	10176.00	90.35	268.53	94.00	5813.70	3952.39	-55.81	-3952.02	3952.43	269.19	0.49	SlimPulse	9	0	3
114	10271.00	90.50	268.48	95.00	5812.99	4047.39	-58.29	-4046.99	4047.41	269.17	0.17	SlimPulse	9	0	3
115	10365.00	90.35	268.54	94.00	5812.30	4141.38	-60.73	-4140.95	4141.40	269.16	0.17	SlimPulse	9	0	3
116	10460.00	90.46	268.80	95.00	5811.63	4236.38	-62.94	-4235.93	4236.38	269.15	0.30	SlimPulse	9	0	3
117	10554.00	90.42	268.57	94.00	5810.90	4330.37	-65.09	-4329.90	4330.38	269.14	0.25	SlimPulse	9	0	3
118	10649.00	90.35	268.40	95.00	5810.27	4425.37	-67.61	-4424.86	4425.39	269.12	0.19	SlimPulse	9	0	3
119	10744.00	90.49	268.75	95.00	5809.57	4520.36	-69.97	-4519.83	4520.37	269.11	0.40	SlimPulse	9	0	3
120	10838.00	90.53	268.84	94.00	5808.73	4614.36	-71.94	-4613.81	4614.37	269.11	0.10	SlimPulse	9	0	3
121	10933.00	90.28	268.26	95.00	5808.06	4709.35	-74.35	-4708.77	4709.35	269.10	0.66	SlimPulse	9	0	3
122	11027.00	90.42	268.65	94.00	5807.49	4803.35	-76.88	-4802.74	4803.35	269.08	0.44	SlimPulse	9	0	3
123	11122.00	90.42	268.71	95.00	5806.79	4898.34	-79.07	-4897.71	4898.36	269.08	0.06	SlimPulse	9	0	3
124	11217.00	90.42	268.71	95.00	5806.09	4993.34	-81.21	-4992.68	4993.34	269.07	0.00	SlimPulse	9	0	3
125	11311.00	90.31	270.22	94.00	5805.50	5087.33	-82.09	-5086.67	5087.34	269.08	1.61	SlimPulse	9	0	3
126	11406.00	90.35	270.31	95.00	5804.95	5182.31	-81.65	-5181.67	5182.32	269.10	0.10	SlimPulse	9	0	3
127	11500.00	90.42	270.23	94.00	5804.32	5276.28	-81.21	-5275.67	5276.28	269.12	0.11	SlimPulse	9	0	3
128	11595.00	90.46	270.30	95.00	5803.59	5371.25	-80.77	-5370.67	5371.26	269.14	0.08	SlimPulse	9	0	3
129	11689.00	90.64	270.71	94.00	5802.68	5465.22	-79.94	-5464.66	5465.26	269.16	0.48	SlimPulse	9	0	3
130	11784.00	90.56	270.68	95.00	5801.69	5560.17	-78.79	-5559.64	5560.20	269.19	0.09	SlimPulse	9	0	3
131	11879.00	90.53	269.93	95.00	5800.79	5655.14	-78.28	-5654.64	5655.18	269.21	0.79	SlimPulse	9	0	3
132	11973.00	90.31	268.46	94.00	5800.10	5749.13	-79.60	-5748.62	5749.18	269.21	1.58	SlimPulse	9	0	3
133	12068.00	90.35	268.44	95.00	5799.55	5844.13	-82.17	-5843.59	5844.16	269.19	0.05	SlimPulse	9	0	3
134	12163.00	90.31	268.33	95.00	5799.00	5939.12	-84.85	-5938.55	5939.14	269.18	0.12	SlimPulse	9	0	3
135	12257.00	90.53	268.87	94.00	5798.31	6033.12	-87.14	-6032.52	6033.14	269.17	0.62	SlimPulse	9	0	3
136	12352.00	90.28	268.51	95.00	5797.64	6128.11	-89.32	-6127.49	6128.15	269.16	0.46	SlimPulse	9	0	3
137	12446.00	90.53	269.11	94.00	5796.98	6222.11	-91.27	-6221.47	6222.15	269.16	0.69	SlimPulse	9	0	3
138	12541.00	90.46	268.93	95.00	5796.16	6317.11	-92.89	-6316.45	6317.13	269.16	0.20	SlimPulse	9	0	3
139	12635.00	90.28	268.37	94.00	5795.55	6411.10	-95.11	-6410.42	6411.12	269.15	0.63	SlimPulse	9	0	0
140	12730.00	90.28	268.37	95.00	5795.09	6506.09	-97.81	-6505.38	6506.10	269.14	0.00	SlimPulse	9	0	0
141	12824.00	90.46	268.69	94.00	5794.48	6600.09	-100.22	-6599.35	6600.10	269.13	0.39	SlimPulse	9	0	0
142	12919.00	90.28	268.38	95.00	5793.87	6695.08	-102.65	-6694.31	6695.11	269.12	0.38	SlimPulse	9	0	0
143	13014.00	90.46	268.55	95.00	5793.25	6790.08	-105.19	-6789.28	6790.09	269.11	0.26	SlimPulse	9	0	0
144	13108.00	90.53	268.70	94.00	5792.44	6884.07	-107.45	-6883.25	6884.09	269.11	0.18	SlimPulse	9	0	0
145	13203.00	90.74	268.26	95.00	5791.39	6979.06	-109.97	-6978.21	6979.07	269.10	0.51	SlimPulse	9	0	0
146	13298.00	90.83	268.35	95.00	5790.09	7074.05	-112.78	-7073.16	7074.05	269.09	0.13	SlimPulse	9	0	0
147	13392.00	90.83	268.76	94.00	5788.72	7168.03	-115.15	-7167.12	7168.04	269.08	0.44	SlimPulse	9	0	0
148	13487.00	90.94	268.86	95.00	5787.26	7263.02	-117.12	-7262.09	7263.02	269.08	0.16	SlimPulse	9	0	0
149	13582.00	90.83	268.74	95.00	5785.79	7358.01	-119.11	-7357.05	7358.01	269.07	0.17	SlimPulse	9	0	0
150	13677.00	90.83	268.36	95.00	5784.41	7453.00	-121.52	-7452.01	7453.02	269.07	0.40	SlimPulse	9	0	0
151	13771.00	91.01	268.90	94.00	5782.90	7546.98	-123.76	-7545.97	7546.98	269.06	0.61	SlimPulse	9	0	0
152	13866.00	91.01	269.03	95.00	5781.23	7641.97	-125.48	-7640.94	7641.96	269.06	0.14	SlimPulse	9	0	0
153	13961.00	90.86	268.69	95.00	5779.68	7736.96	-127.37	-7735.91	7736.98	269.06	0.39	SlimPulse	9	0	0

154	14055.00	90.28	268.50	94.00	5778.74	7830.95	-129.67	-7829.88	7830.94	269.05	0.65	SlimPulse	9	0	0
155	14150.00	90.53	268.85	95.00	5778.07	7925.94	-131.87	-7924.85	7925.95	269.05	0.45	SlimPulse	9	0	0
156	14244.00	90.49	268.77	94.00	5777.24	8019.94	-133.82	-8018.83	8019.95	269.04	0.10	SlimPulse	9	0	0
157	14339.00	90.35	268.80	95.00	5776.54	8114.94	-135.84	-8113.80	8114.93	269.04	0.15	SlimPulse	9	0	0
158	14433.00	90.42	268.61	94.00	5775.91	8208.93	-137.96	-8207.78	8208.92	269.04	0.22	SlimPulse	9	0	0
159	14528.00	90.31	268.46	95.00	5775.30	8303.93	-140.39	-8302.74	8303.94	269.03	0.20	SlimPulse	9	0	0
160	14622.00	90.49	268.88	94.00	5774.65	8397.92	-142.57	-8396.72	8397.93	269.03	0.49	SlimPulse	9	0	0
161	14717.00	90.31	268.34	95.00	5773.98	8492.92	-144.87	-8491.69	8492.91	269.02	0.60	SlimPulse	9	0	0
162	14812.00	90.49	269.03	95.00	5773.32	8587.92	-147.06	-8586.66	8587.93	269.02	0.75	SlimPulse	9	0	0
163	14906.00	90.49	268.77	94.00	5772.52	8681.91	-148.86	-8680.64	8681.92	269.02	0.28	SlimPulse	9	0	0
164	15001.00	90.53	268.85	95.00	5771.67	8776.91	-150.83	-8775.61	8776.90	269.02	0.09	SlimPulse	9	0	0
165	15095.00	90.45	268.94	94.00	5770.87	8870.90	-152.65	-8869.59	8870.90	269.01	0.13	SlimPulse	9	0	0
166	15190.00	90.28	268.38	95.00	5770.26	8965.90	-154.87	-8964.56	8965.91	269.01	0.62	SlimPulse	9	0	0
167	15284.00	90.19	268.05	94.00	5769.88	9059.89	-157.79	-9058.52	9059.88	269.00	0.36	SlimPulse	9	0	0
168	15379.00	90.31	268.74	95.00	5769.46	9154.88	-160.46	-9153.48	9154.89	269.00	0.74	SlimPulse	9	0	0
169	15473.00	90.49	268.78	94.00	5768.80	9248.88	-162.49	-9247.45	9248.88	268.99	0.20	SlimPulse	9	0	0
170	15568.00	90.42	268.62	95.00	5768.05	9343.88	-164.64	-9342.43	9343.86	268.99	0.18	SlimPulse	9	0	0
171	15662.00	90.26	268.48	94.00	5767.49	9437.87	-167.02	-9436.39	9437.86	268.99	0.23	SlimPulse	9	0	0
172	15757.00	90.28	268.51	95.00	5767.04	9532.87	-169.52	-9531.36	9532.87	268.98	0.04	SlimPulse	9	0	0
173	15852.00	90.31	268.62	95.00	5766.56	9627.86	-171.90	-9626.33	9627.85	268.98	0.12	SlimPulse	9	0	0
174	15946.00	90.35	268.58	94.00	5766.01	9721.86	-174.19	-9720.30	9721.85	268.97	0.06	SlimPulse	9	0	0
175	16072.00	90.28	268.24	126.00	5765.32	9847.85	-177.69	-9846.25	9847.87	268.97	0.28	SlimPulse	9	0	0
176	16119.00	90.28	268.24	47.00	5765.09	9894.85	-179.13	-9893.23	9894.85	268.96	0.00	Other	9	0	7

Company: Noble Energy Inc.

Well: NUGENT LD06-655

Field: Wildcat

County: Weld

State: Colorado

Country: United States of America



Schlumberger

SlimPulse - Gamma Ray
1in/100ft True Vertical Depth
Recorded Mode, Composite Log