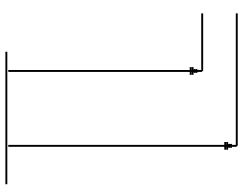
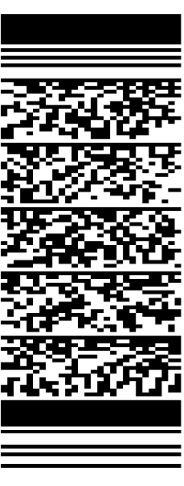


Company: Noble Energy		Well: Remora LC34-725		Field: Wildcat		County: Weld		State: Colorado		Country: USA	
<div><div>SlimPulse - Gamma Ray</div><div>1 in. / 100 ft., True Vertical Depth</div><div>Composite Log, Recorded Mode</div></div> <div>Schlumberger</div>											
Company: Noble Energy				Well: Remora LC34-725							
Field: Wildcat											
County: Weld											
State: Colorado											
Country: USA											
Section: 34		APIN: 05-123-40602									
Township: 09N		Rig Name: H&P 273									
Range: 59W		Rig Type: Top Drive									
FL: NAD83 Colorado State Plane, Northern Zone, US Feet											
FL1: Latitude: 40° 42' 43.42" N Northing: 1505968.52 ftUS											
FL2: Longitude: 103° 57' 25.49" W Easting 3427719.49 ftUS											
<div>Log Measured From: - Drill Floor: 4838.00 ft</div> <div>Ground Level: 4814.00 ft</div> <div></div>											
Permanent Datum: - Mean Sea Level											
Acquisition Dates: 18-Jan-2016 -- 22-Jan-2016		Other Services:									
Log Interval: 641.99(ft)TVD -- 6015.25(ft)TVD		Directional Drilling									
Index Types: True Vertical 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-JAN-2016											

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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8. Remarks and Equipment Summary

9. Well Composite

9.1 Integration Summary

9.2 Software Version

9.3 Composite Summary

9.4 Log ( TVD EOW )

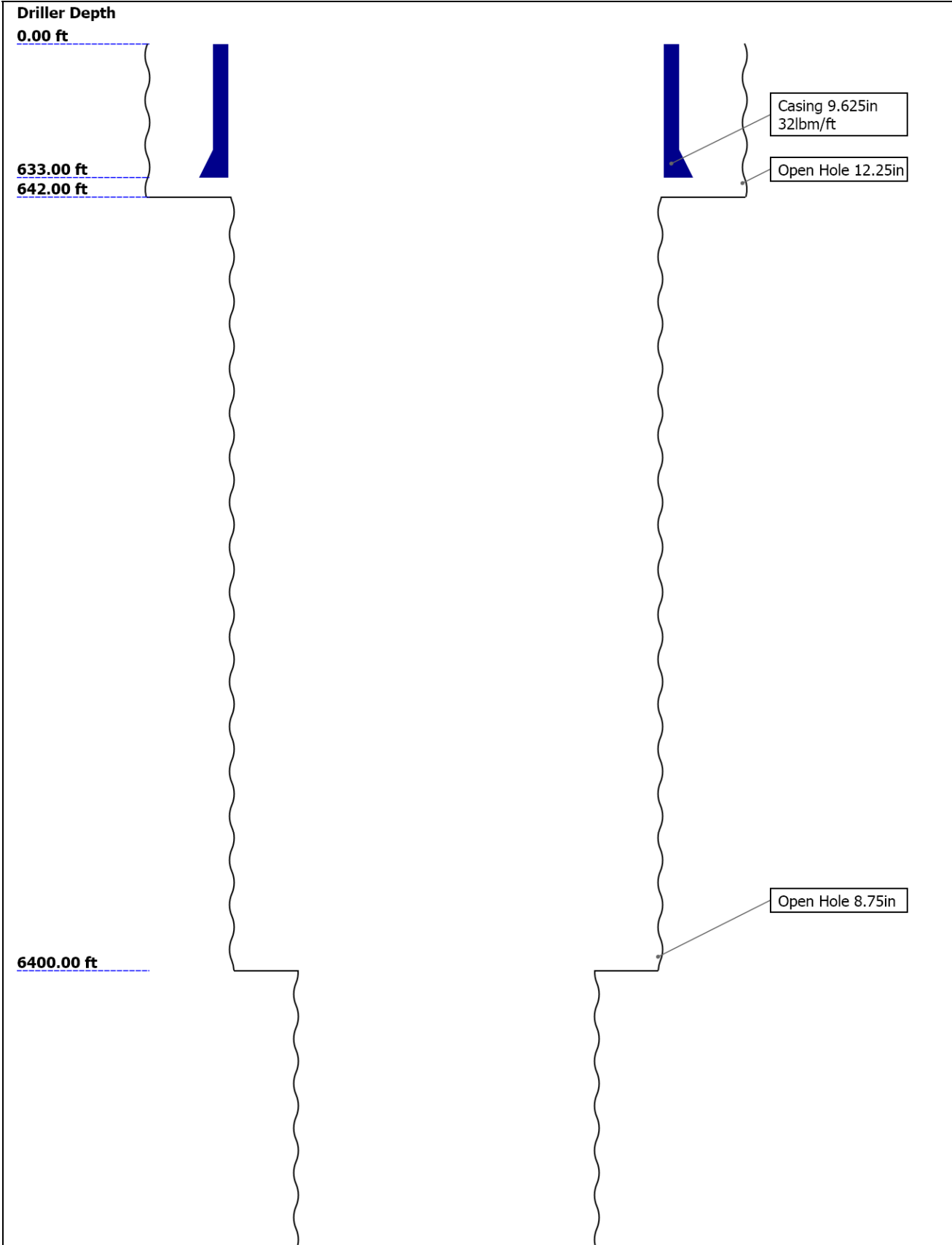
9.5 Parameter Listing

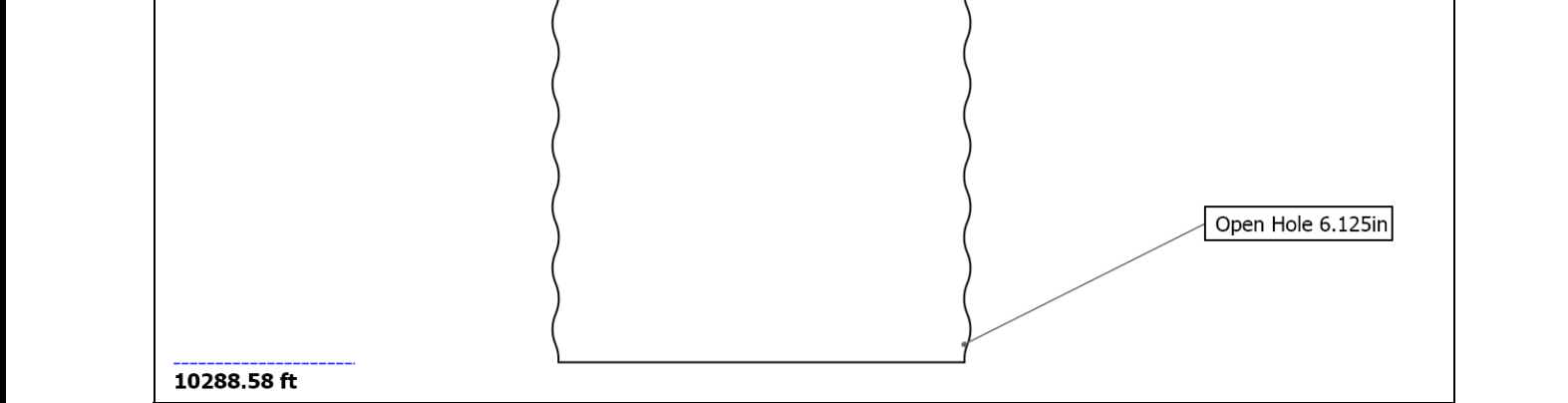
10. Survey Record

11. Calibration Report

12. Tail

Well Sketch





Borehole Size/Casing Record						
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Bit						
Bit Size ( in )	12.25	8.75	6.125			
Top Driller ( ft )	0	642	6400			
Bottom Driller ( ft )	642	6400	10288.58			
Casing						
Size ( in )	9.625					
Weight ( lbm/ft )	32					
Inner Diameter ( in )	9.001					
Grade	J55					
Top Driller ( ft )	0					
Bottom Driller ( ft )	633					

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

Parameter ( unit )	Run001	Run002	Run003			
Date Log Started	18-Jan-2016	20-Jan-2016	21-Jan-2016			
Time Log Started	15:44:31	20:03:44	18:12:19			
Date Log Finished	20-Jan-2016	21-Jan-2016	22-Jan-2016			
Time Log Finished	06:09:12	13:41:19	16:08:27			
Bit Size ( in )	8.750	6.125	6.125			
Bit Start Depth ( ft )	642.00	6400.00	7081.00			
Bit Stop Depth ( ft )	6400.00	7081.00	10288.00			
Top Log Interval ( ft )	593.00	6351.00	7005.00			
Bottom Log Interval ( ft )	6351.00	7005.00	10212.00			
Max Hole Deviation ( deg )	83.35	92.17	91.00			
Azimuth of Max Deviation ( deg )	177.08	178.53	182.79			
Logging Unit Number	Command Center	Command Center	Command Center			
Logging Unit Location	Zone 3	Zone 3	Zone 3			
Recorded By	E. Sloyer	E. Sloyer	S. Kingrey			
Witnessed By	S. Kingrey	S. Kingrey	E. Sloyer			
Service Order Number	15CCO0859	15CCO0859	15CCO0859			

Borehole Fluids						
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Data presented is from tool memory and acquired while drilling from 631 ft MD to 10288 ft MD.

Depth Reference: Driller's Depth

Environmental Corrections: Gamma Ray is corrected for bit size, mud weight, and tool collar

Run001: Remarks	Run002: Remarks	Run003: Remarks
-----------------	-----------------	-----------------

Run Objective: Drill vertical and curve section.	Run Objective: Drill lateral section.	Run Objective: Drill Lateral section.
Bit to GR: 48.73 ft Bit to D&I: 45.70 ft	Bit to GR: 75.96 ft Bit to D&I: 72.96 ft	Bit to GR: 75.96 ft Bit to DNI: 72.96 ft
Drilled from: 642 ft to 6400 ft Logged from: 593 ft to 6351 ft	Drilled from: 6400 ft to 7081 ft Logged from: 6351 ft to 7005 ft	Drilled from: 7081 ft to 10288 ft Logged from: 6145 ft to 10212 ft
SlimPulse Software Version 11 SlimPulse UDI Calibrated: Jan. 15, 2016 SlimPulse UGR Calibrated: Dec. 10, 2014	SlimPulse Software Version 11 SlimPulse UDI Calibrated: Jan. 6, 2016 SlimPulse UGR Calibrated: Mar. 23, 2015	SlimPulse Software Version 11 SlimPulse UDI Calibrated: Jul. 23, 2015 SlimPulse UGR Calibrated: Oct. 30, 2015
Schlumberger Personnel: DD: Charles Mitchell, Chris Sisseck MWD: Scott Kingrey, Eric Sloyer	Schlumberger Personnel: DD: Charles Mitchell, Chris Sisseck MWD: Scott Kingrey, Eric Sloyer	Schlumberger Personnel: DD: Charles Mitchell, Chris Sisseck MWD: Scott Kingrey, Eric Sloyer
Reason for POOH: Section TD	Reason for POOH: Plugged Jets	Reason for POOH: Well TD

Run001: Toolstring				Run002: Toolstring				Run003: Toolstring			
Equip name	Length	MP name	Offset	Equip name	Length	MP name	Offset	Equip name	Length	MP name	Offset
X/O: 6 3/4":DR11108	101.43			NMDC: 4 3/4":DR10995	124.96	NMDC		NMDC: 4 3/4":DR10995	124.96	NMDC	
Flt Sub: 6 3/4":DR10902	98.4										
Filtr Sub: 6 3/4":DR19577	95.84										
Flex DC: 6 3/4":DR28051	93.04										
				Stab: 4 3/4"[2]:DR22299	94.06	STAB		Stab: 4 3/4"[2]:DR22299	94.06	STAB	

SPULSE-GEN:DR93 62.01  
89  
FLOWSUB:DR16488  
SPCOLLAR:DR9389  
SPMA:359  
SPEC:554  
SPBA:Q04789  
UBHO:675U194

Motor:6750076SS 27.64

4/5\_7.0\_0.81 rpg

SPULSE-GEN:DR23 89.92  
998  
FLOWSUB:DR21931  
SPCOLLAR:DR23998  
SPMA:686  
SPEC:984  
SPBA:Q04789  
UBHO:475AU022

Stab: 4 3/4"[1]:DR 54.27  
22299

Motor:007 49.79

MWD NMDC

GR 75.96

D&I 72.93

STAB

HUNTING 5/6\_8.3\_1.0

SPULSE-GEN:DR23 89.92  
998  
FLOWSUB:DR21931  
SPCOLLAR:DR23998  
SPMA:848  
SPEC:879  
SPBA:Q03378  
UBHO:475AU022

Stab: 4 3/4"[1]:DR 54.27  
22299

Motor:007 49.79

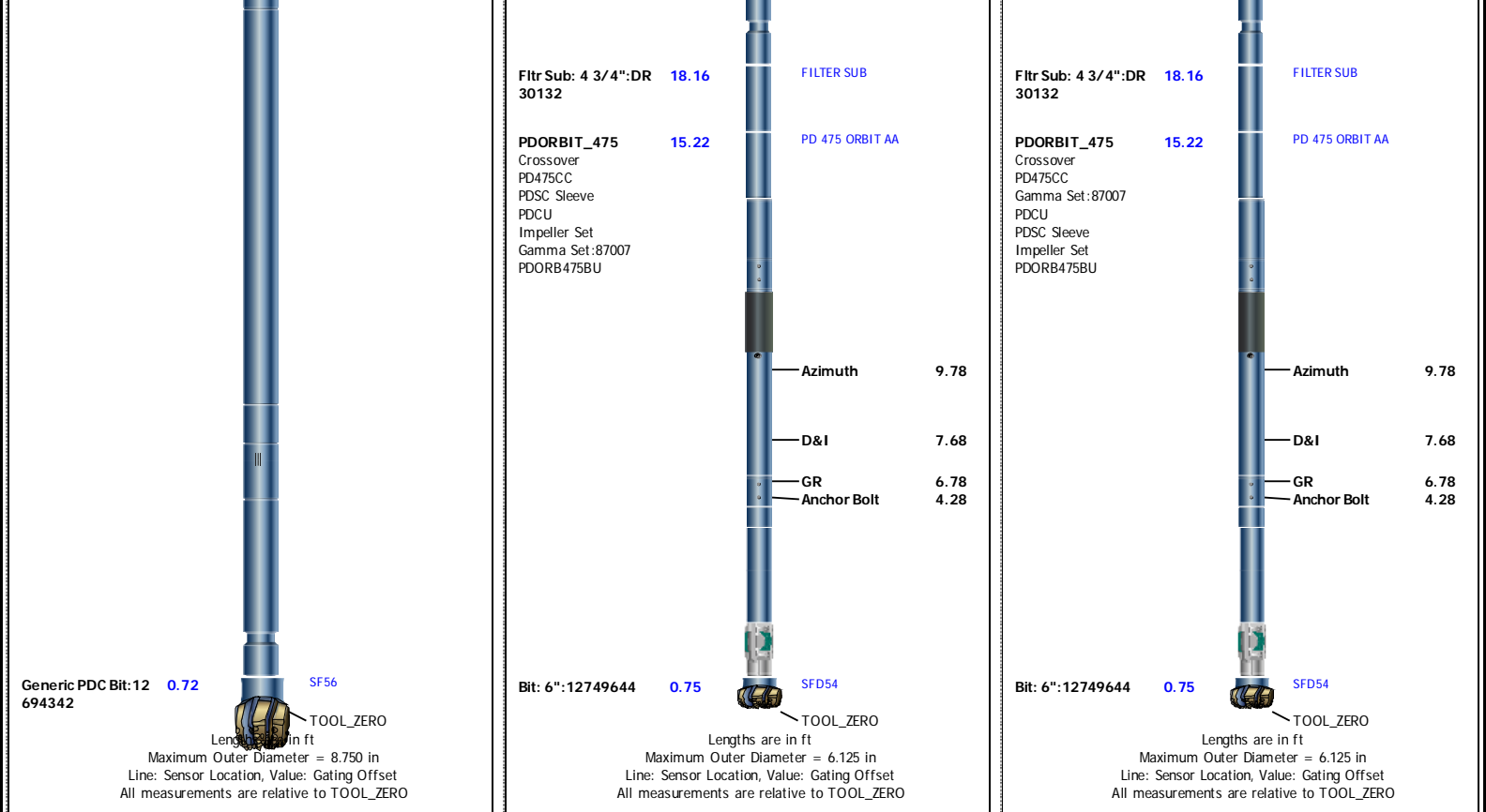
MWD NMDC

GR 75.96

D&I 72.93

STAB

HUNTING 5/6\_8.3\_1.0



## Well Composite

### Software Version

Acquisition System	Version
Maxwell 2014 SP3	5.3.47551.3100

### Composite Summary

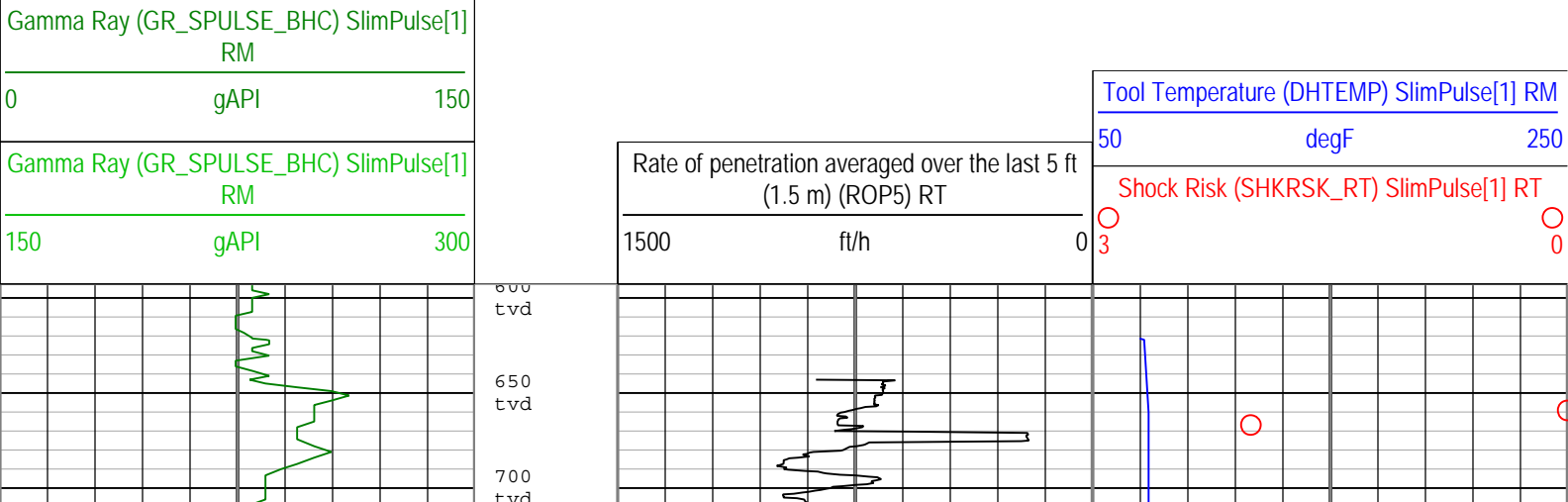
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Include Parallel Data
Run001	Drilling	Down	642.00 ft	6400.00 ft	18-Jan-2016 4:18:35 PM	20-Jan-2016 6:09:12 AM	Yes
Run002	Drilling	Down	6399.17 ft	7077.33 ft	21-Jan-2016 2:18:18 AM	21-Jan-2016 1:41:19 PM	Yes
Run003	Drilling	Down	7080.00 ft	10288.58 ft	21-Jan-2016 6:12:19 PM	22-Jan-2016 4:08:27 PM	Yes

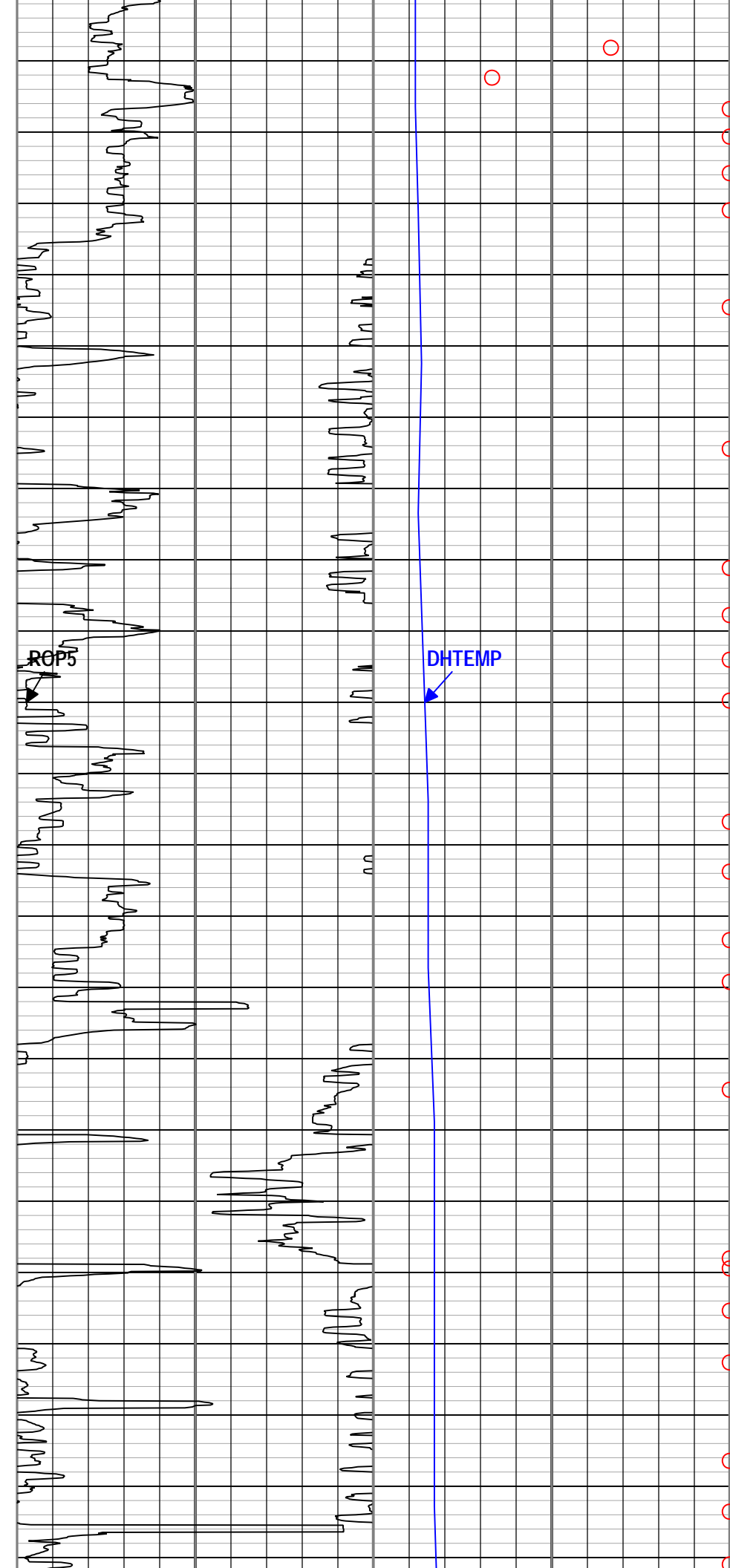
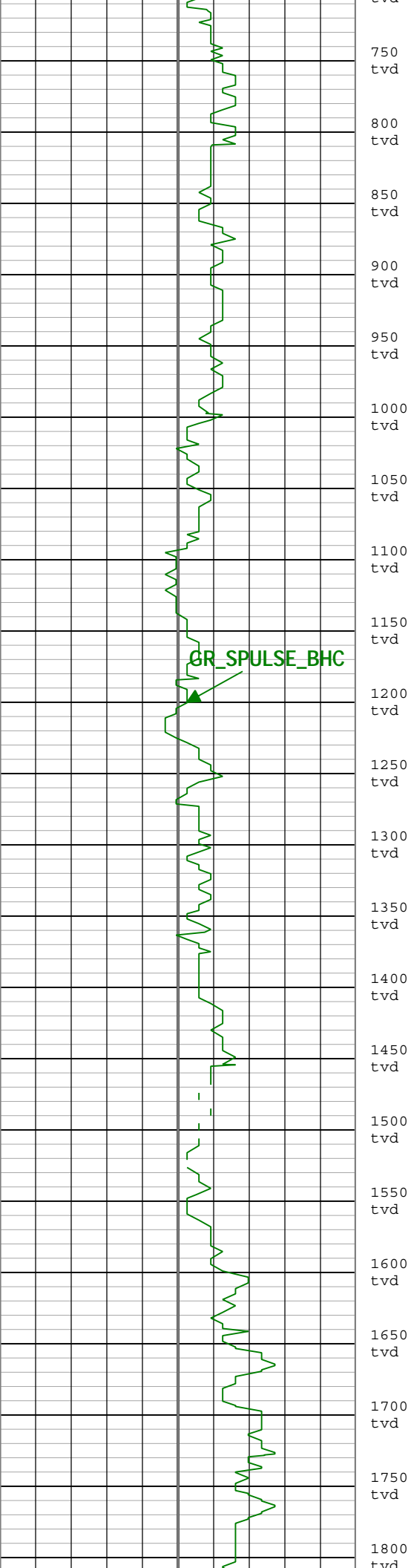
All depths are referenced to toolstring zero

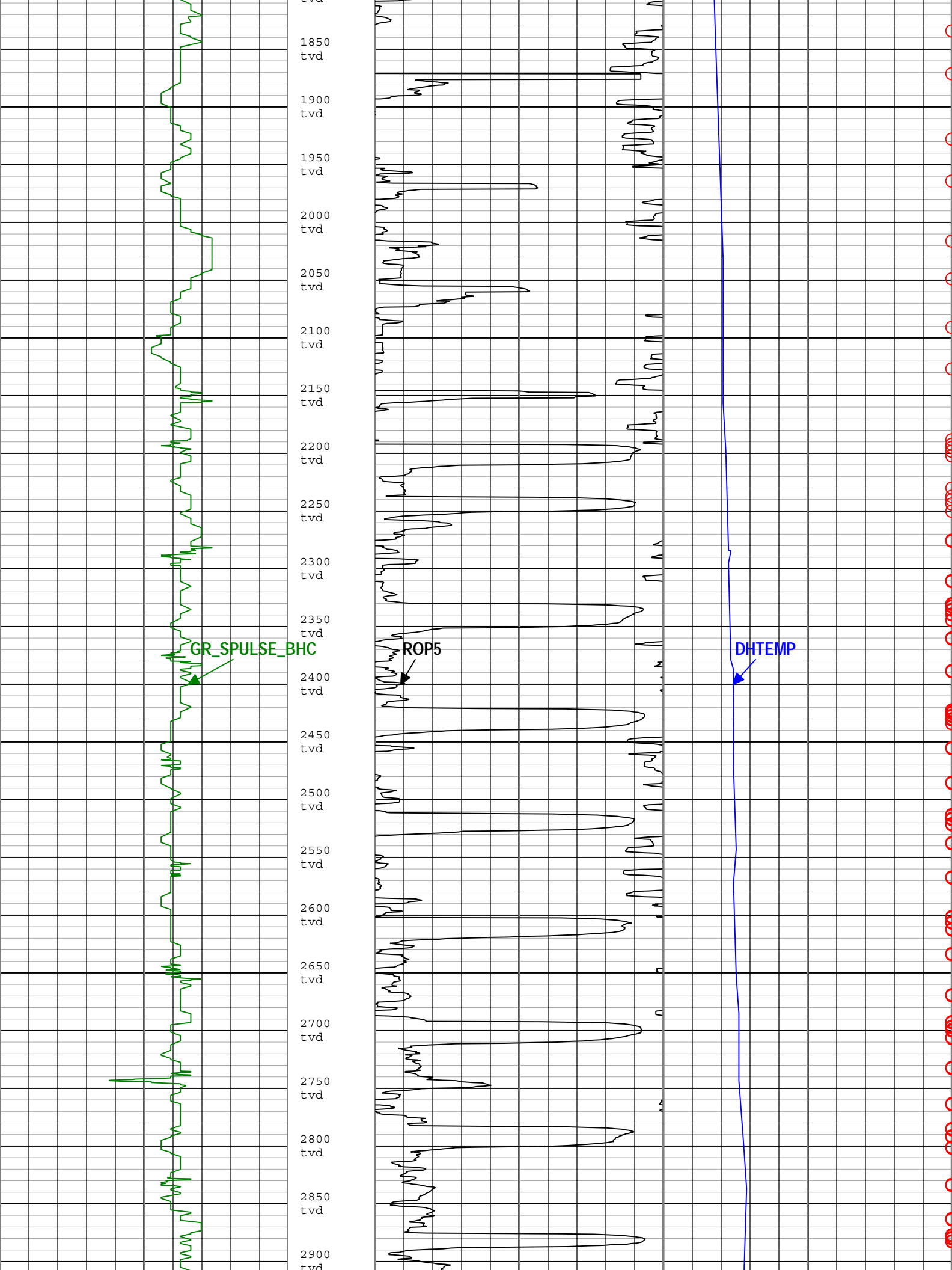
### Log

Company: Noble Energy Well: Remora LC34-725 Well Composite: S109

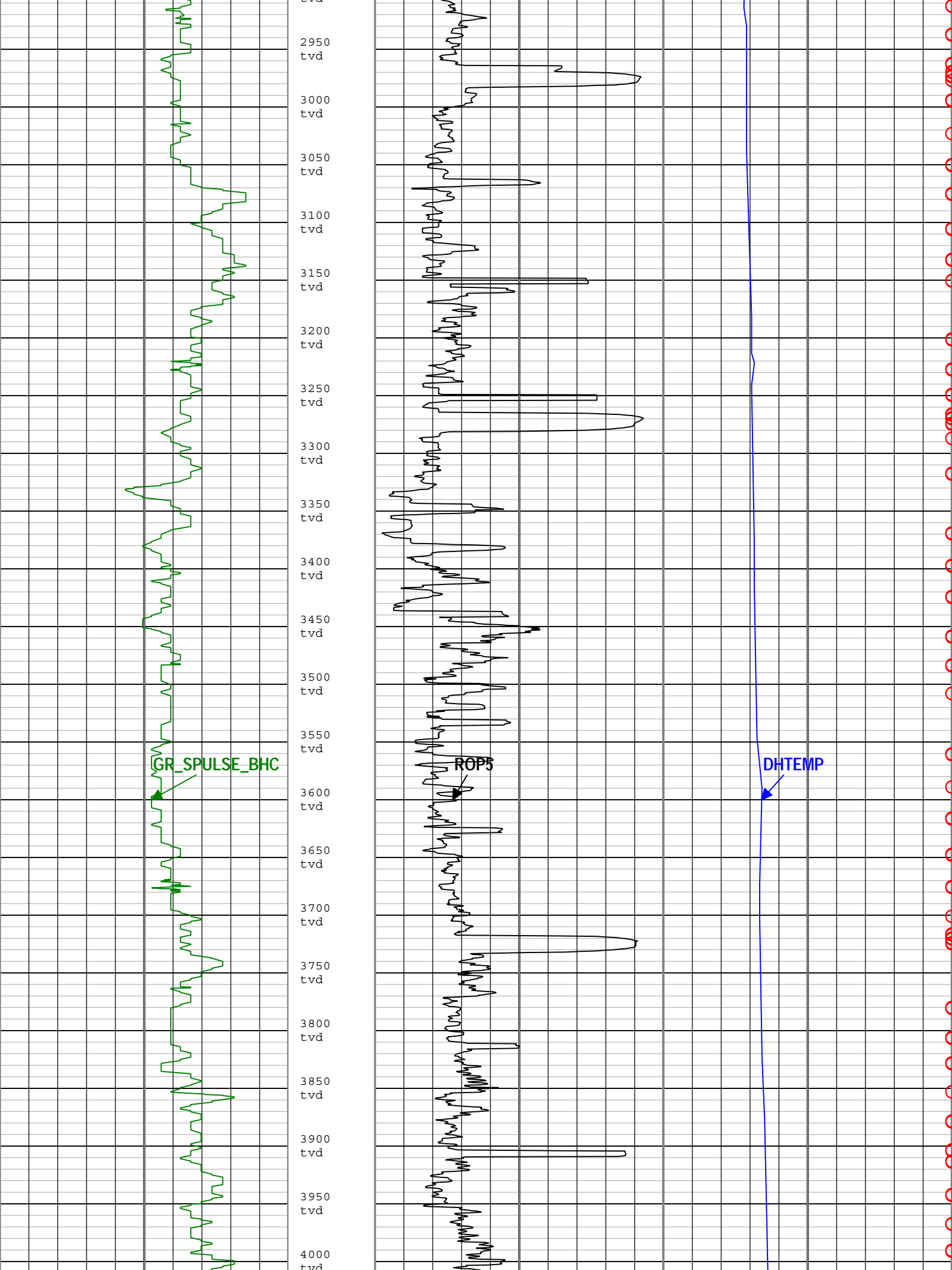
Description: Format: Log ( TVD EOW ) Index Scale: 1 in per 100 ft Index Unit: ft Index Type: TVD Creation Date: 26-Jan-2016 14:31:46

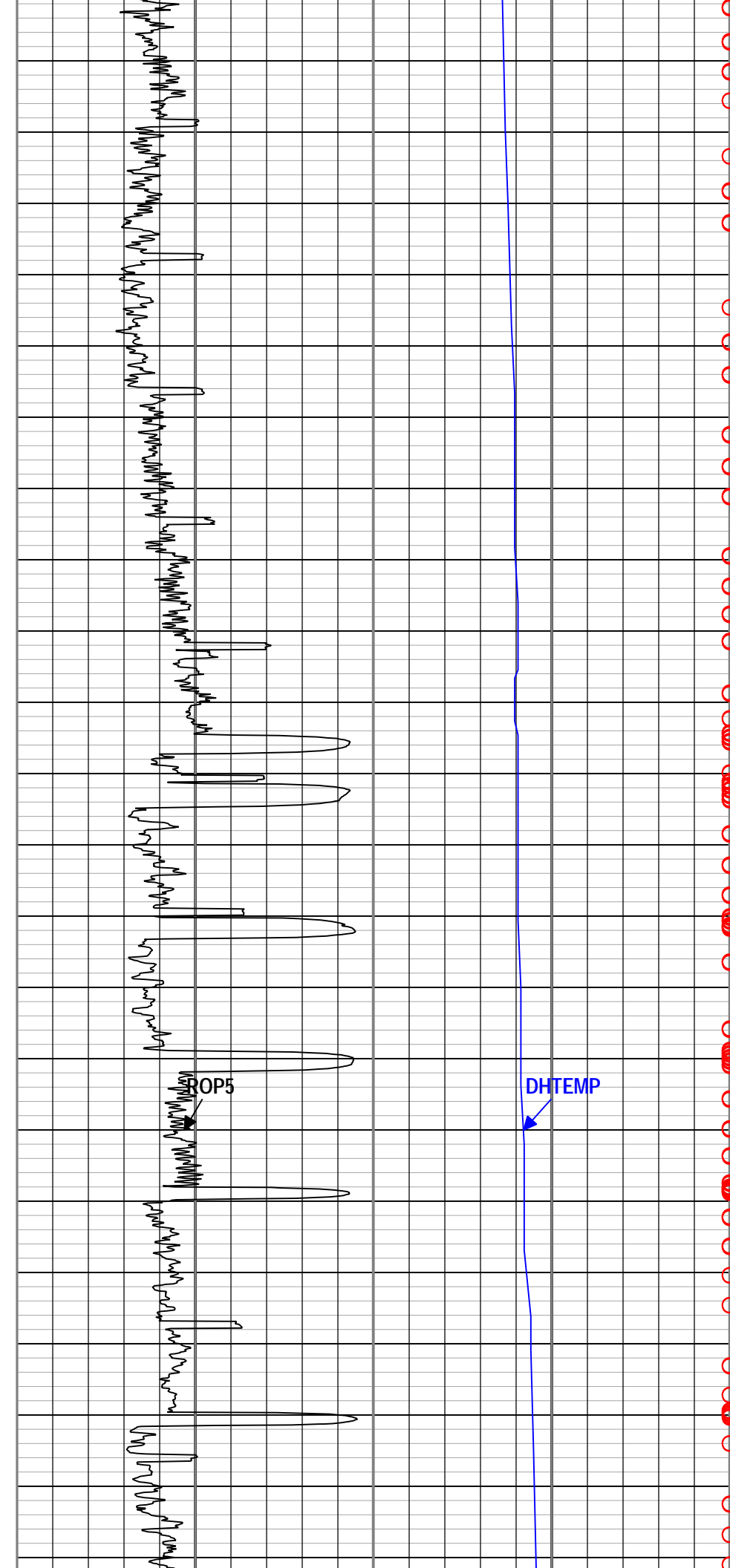
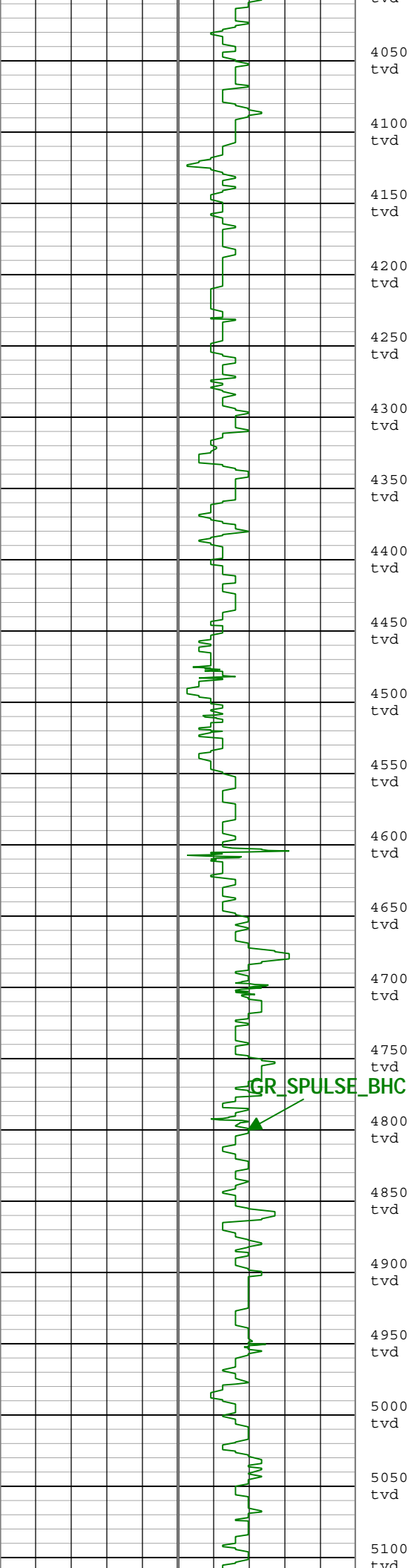


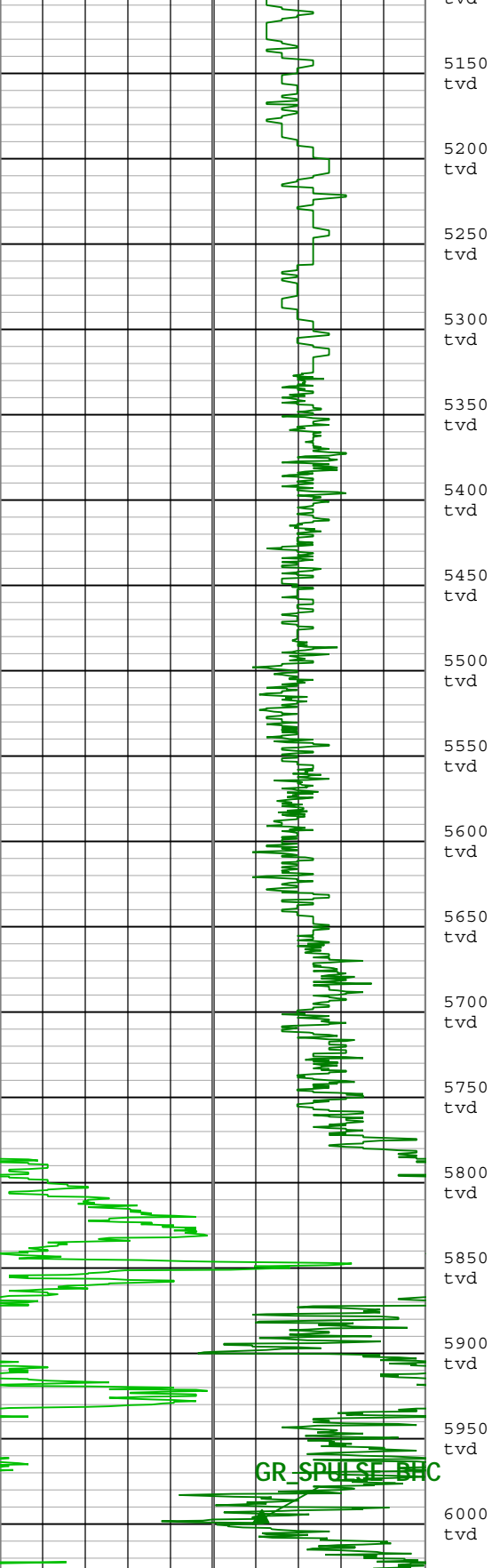












Gamma Ray (GR_SPULSE_BHC) SlimPulse[1] RM		
0	gAPI	150
Gamma Ray (GR_SPULSE_BHC) SlimPulse[1] RM		
150	gAPI	300



Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT	
1500	ft/h
	0

Tool Temperature (DHTEMP) SlimPulse[1] RM		
50	degF	250
Shock Risk (SHKRSK_RT) SlimPulse[1] RT		
3		0

# Channel Processing Parameters

## Run001: Parameters

Parameter	Description	Tool	Value	Unit
BS	Bit Size	DNMSESSION	Depth Zoned	in
DFD	Drilling Fluid Density	Borehole	8.5	lbm/gal
GR_SRC	GR Source Selection	SPULSE-GEN	GAMMA_EXT	

## Run001Depth Zoned Parameters

Parameter	Value	Start ( ft )	Stop ( ft )
BS	12.25	593.58	642.08
BS	8.75	642.08	6022.95

All depth are actual.

## Run002: Parameters

Parameter	Description	Tool	Value	Unit
BS	Bit Size	DNMSESSION	Depth Zoned	in
DFD	Drilling Fluid Density	Borehole	10.3	lbm/gal
GR_SRC	GR Source Selection	SPULSE-GEN	GAMMA_EXT	

## Run002Depth Zoned Parameters

Parameter	Value	Start ( ft )	Stop ( ft )
BS	8.75	6003.9	6023.03
BS	6.125	6023.03	6029.64

All depth are actual.

## Run003: Parameters

Parameter	Description	Tool	Value	Unit
BS	Bit Size	DNMSESSION	6.125	in
DFD	Drilling Fluid Density	Borehole	10.3	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 :	1.00 deg		

### Rig Location

Latitude :	40° 42' 43.42" N	Longitude :	103° 57' 25.49" 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:	181.95 deg

### D&I Inits Computed and Values Used - Run001

Geomagnetic Model :	HDGM 2015	Geomagnetic Date :	17 Jan 2016
Computed Location B :	52868.18 nT +/- 300.00nT	Used Location B :	52804.55 nT +/- 300.00nT
Computed Location G :	999.57 mgn +/- 2.50mgn	Used Location G :	999.09 mgn +/- 2.50mgn
Computed Magnetic Dip :	67.17 deg +/- 0.45deg	Used Magnetic Dip :	67.20 deg +/- 0.45deg
Computed Magnetic Dec :	7.98 deg	Used Magnetic Dec :	7.99 deg
Computed Total Correction :	6.98 deg	Used Total Correction :	6.99 deg

### D&I Inits Computed and Values Used - Run002

Geomagnetic Model :	HDGM 2015	Geomagnetic Date :	20-Jan-2016
Computed Location B :	52867.19 nT +/- 300.00nT	Used Location B :	52867.19 nT +/- 300.00nT
Computed Location G :	999.57 mgn +/- 2.50mgn	Used Location G :	999.57 mgn +/- 2.50mgn

Computed Magnetic Dip :		67.17 deg +/- 0.45deg			Used Magnetic Dip :		67.17 deg +/- 0.45deg								
Computed Magnetic Dec :		7.98 deg			Used Magnetic Dec :		7.98 deg								
Computed Total Correction :		6.98 deg			Used Total Correction :		6.98 deg								
D&I Inits Computed and Values Used - Run003															
Geomagnetic Model :		HDGM 2015			Geomagnetic Date :		21 Jan 2016								
Computed Location B :		52866.87 nT +/- 300.00nT			Used Location B :		52866.87 nT +/- 300.00nT								
Computed Location G :		999.57 mgn +/- 2.50mgn			Used Location G :		999.57 mgn +/- 2.50mgn								
Computed Magnetic Dip :		67.17 deg +/- 0.45deg			Used Magnetic Dip :		67.17 deg +/- 0.45deg								
Computed Magnetic Dec :		7.98 deg			Used Magnetic Dec :		7.98 deg								
Computed Total Correction :		6.98 deg			Used Total Correction :		6.98 deg								
Survey Quality Index															
0 : Long Survey passed all criteria					2 : Long Survey failed mag criteria					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	714.00	0.49	7.99	714.00	713.99	-3.05	3.04	0.43	3.08	7.99	0.07	SlimPulse	2	0	0
3	809.00	0.36	24.39	95.00	808.99	-3.73	3.71	0.61	3.77	9.27	0.19	SlimPulse	2	0	0
4	903.00	0.14	260.06	94.00	902.99	-3.98	3.96	0.61	4.00	8.79	0.48	SlimPulse	2	0	0
5	1092.00	0.88	224.44	189.00	1091.98	-2.86	2.89	-0.63	2.95	347.65	0.41	SlimPulse	2	0	0
6	1183.00	0.80	225.70	91.00	1182.97	-1.89	1.94	-1.58	2.49	320.94	0.09	SlimPulse	2	0	0
7	1275.00	0.78	193.20	92.00	1274.96	-0.81	0.88	-2.18	2.36	291.96	0.48	SlimPulse	2	0	0
8	1367.00	1.01	179.90	92.00	1366.95	0.62	-0.54	-2.32	2.40	256.81	0.33	SlimPulse	2	0	0
9	1550.00	0.99	145.52	183.00	1549.92	3.50	-3.46	-1.43	3.74	202.49	0.32	SlimPulse	2	0	0
10	1733.00	0.68	164.20	183.00	1732.90	5.80	-5.80	-0.25	5.81	182.42	0.22	SlimPulse	2	0	0
11	1825.00	0.74	144.48	92.00	1824.90	6.79	-6.80	0.25	6.79	177.92	0.27	SlimPulse	2	0	0
12	1916.00	0.81	114.81	91.00	1915.89	7.50	-7.55	1.17	7.64	171.19	0.44	SlimPulse	2	0	0
13	2007.00	1.12	126.22	91.00	2006.88	8.25	-8.34	2.47	8.69	163.50	0.40	SlimPulse	2	0	0
14	2098.00	1.22	131.07	91.00	2097.86	9.37	-9.50	3.92	10.27	157.59	0.16	SlimPulse	2	0	0
15	2190.00	0.71	106.12	92.00	2189.84	10.12	-10.31	5.21	11.55	153.20	0.71	SlimPulse	2	0	0
16	2282.00	2.34	25.45	92.00	2281.82	8.54	-8.77	6.56	10.96	143.19	2.54	SlimPulse	2	0	0
17	2374.00	5.58	7.49	92.00	2373.59	2.36	-2.63	7.95	8.37	108.30	3.73	SlimPulse	2	0	0
18	2465.00	7.49	4.57	91.00	2463.99	-7.98	7.68	9.00	11.84	49.54	2.13	SlimPulse	2	0	0
19	2557.00	8.73	356.27	92.00	2555.07	-20.92	20.62	9.03	22.51	23.64	1.85	SlimPulse	2	0	0
20	2649.00	10.13	344.22	92.00	2645.84	-35.57	35.38	6.37	35.96	10.21	2.62	SlimPulse	2	0	0
21	2740.00	10.34	330.22	91.00	2735.40	-50.14	50.17	0.14	50.16	0.15	2.74	SlimPulse	2	0	0
22	2835.00	11.28	316.02	95.00	2828.73	-63.86	64.26	-10.55	65.12	350.67	2.96	SlimPulse	2	0	0
23	2929.00	10.44	316.85	94.00	2921.05	-76.27	77.09	-22.76	80.38	343.55	0.90	SlimPulse	2	0	0
24	3024.00	8.30	309.61	95.00	3014.78	-86.54	87.74	-33.94	94.09	338.86	2.57	SlimPulse	0	0	0
25	3119.00	8.66	303.52	95.00	3108.74	-94.47	96.07	-45.18	106.17	334.81	1.02	SlimPulse	2	0	0
26	3213.00	8.89	300.76	94.00	3201.64	-101.68	103.69	-57.32	118.47	331.07	0.51	SlimPulse	2	0	0
27	3308.00	8.38	313.41	95.00	3295.57	-109.80	112.20	-68.66	131.53	328.54	2.06	SlimPulse	2	0	0
28	3403.00	8.51	315.36	95.00	3389.54	-119.22	121.96	-78.63	145.11	327.19	0.33	SlimPulse	2	0	0
29	3498.00	8.70	317.13	95.00	3483.47	-129.15	132.23	-88.45	159.09	326.22	0.34	SlimPulse	2	0	0
30	3592.00	9.07	317.44	94.00	3576.34	-139.47	142.90	-98.30	173.46	325.47	0.40	SlimPulse	2	0	0
31	3687.00	9.55	316.33	95.00	3670.09	-150.33	154.12	-108.81	188.65	324.78	0.54	SlimPulse	2	0	0
32	3781.00	9.32	329.69	94.00	3762.83	-162.22	166.33	-118.04	203.97	324.64	2.34	SlimPulse	2	0	0
33	3876.00	9.04	329.71	95.00	3856.61	-175.04	179.42	-125.69	219.06	324.99	0.30	SlimPulse	2	0	0
34	3971.00	9.22	332.07	95.00	3950.41	-187.95	192.58	-133.01	234.06	325.37	0.44	SlimPulse	2	0	0

35	4066.00	9.34	331.69	95.00	4044.17	-201.21	206.09	-140.23	249.28	325.77	0.14	SlimPulse	2	0	0
36	4160.00	9.48	332.53	94.00	4136.90	-214.54	219.68	-147.42	264.57	326.13	0.21	SlimPulse	2	0	0
37	4254.00	9.81	330.96	94.00	4229.57	-228.15	233.55	-154.88	280.25	326.45	0.45	SlimPulse	2	0	0
38	4349.00	10.06	330.71	95.00	4323.15	-242.18	247.86	-162.87	296.59	326.69	0.26	SlimPulse	2	0	0
39	4444.00	10.05	329.15	95.00	4416.69	-256.25	262.22	-171.18	313.16	326.86	0.29	SlimPulse	2	0	0
40	4538.00	9.92	330.18	94.00	4509.26	-270.03	276.29	-179.41	329.43	327.00	0.23	SlimPulse	2	0	0
41	4633.00	7.45	318.66	95.00	4603.17	-281.47	288.02	-187.55	343.70	326.93	3.17	SlimPulse	2	0	0
42	4728.00	5.39	320.49	95.00	4697.57	-289.30	296.08	-194.46	354.23	326.70	2.19	SlimPulse	2	0	0
43	4822.00	2.68	330.47	94.00	4791.33	-294.48	301.40	-198.35	360.83	326.65	2.96	SlimPulse	2	0	0
44	4917.00	2.10	4.12	95.00	4886.25	-298.12	305.07	-199.32	364.40	326.84	1.57	SlimPulse	2	0	0
45	5011.00	1.97	11.10	94.00	4980.20	-301.44	308.38	-198.89	366.96	327.18	0.30	SlimPulse	2	0	0
46	5105.00	1.02	319.65	94.00	5074.17	-303.65	310.60	-199.12	368.93	327.34	1.66	SlimPulse	2	0	0
47	5199.00	0.54	303.09	94.00	5168.16	-304.50	311.48	-200.03	370.18	327.29	0.55	SlimPulse	0	0	0
48	5294.00	0.35	289.33	95.00	5263.15	-304.82	311.82	-200.68	370.83	327.24	0.24	SlimPulse	0	0	0
49	5388.00	0.24	128.00	94.00	5357.15	-304.79	311.80	-200.80	370.87	327.22	0.62	SlimPulse	0	0	0
50	5482.00	9.95	191.42	94.00	5450.68	-296.65	303.70	-202.25	364.90	326.34	10.47	SlimPulse	2	0	0
51	5577.00	17.29	186.42	95.00	5542.95	-274.45	281.59	-205.46	348.59	323.88	7.82	SlimPulse	2	0	0
52	5671.00	25.85	183.92	94.00	5630.28	-239.97	247.20	-208.43	323.33	319.86	9.15	SlimPulse	2	0	0
53	5766.00	32.39	183.49	95.00	5713.23	-193.79	201.09	-211.39	291.77	313.57	6.89	SlimPulse	2	0	0
54	5859.00	41.68	179.62	93.00	5787.40	-137.86	145.18	-212.71	257.51	304.31	10.29	SlimPulse	2	0	0
55	5953.00	50.57	177.96	94.00	5852.49	-70.28	77.51	-211.20	224.97	290.15	9.54	SlimPulse	2	0	0
56	6047.00	57.60	177.59	94.00	5907.59	5.60	1.48	-208.24	208.23	270.41	7.49	SlimPulse	2	0	0
57	6142.00	62.27	178.13	95.00	5955.16	87.59	-80.66	-205.18	220.47	248.54	4.94	SlimPulse	2	0	0
58	6236.00	70.72	178.18	94.00	5992.62	173.52	-166.74	-202.41	262.24	230.52	8.98	SlimPulse	2	0	0
59	6331.00	81.30	177.74	95.00	6015.56	265.35	-258.73	-199.12	326.48	217.58	11.15	SlimPulse	2	0	0
60	6353.00	83.35	177.08	22.00	6018.50	287.08	-280.51	-198.14	343.44	215.24	9.77	SlimPulse	2	0	0
61	6440.00	87.53	177.69	87.00	6025.42	373.51	-367.12	-194.19	415.32	207.88	4.85	SlimPulse	0	0	0
62	6531.00	88.08	177.80	91.00	6028.91	464.20	-457.98	-190.61	496.06	202.60	0.62	SlimPulse	0	0	0
63	6623.00	92.17	178.53	92.00	6028.72	555.98	-549.92	-187.67	581.07	198.84	4.52	SlimPulse	0	0	0
64	6718.00	91.79	179.37	95.00	6025.44	650.79	-644.84	-185.92	671.10	196.08	0.97	SlimPulse	0	0	0
65	6813.00	90.86	181.58	95.00	6023.25	745.73	-739.81	-186.71	762.99	194.16	2.53	SlimPulse	0	0	0
66	6907.00	91.00	180.97	94.00	6021.73	839.71	-833.77	-188.80	854.89	192.76	0.67	SlimPulse	0	0	0
67	7002.00	90.76	180.29	95.00	6020.28	934.67	-928.75	-189.84	947.97	191.55	0.75	SlimPulse	0	0	0
68	7097.00	91.00	182.79	95.00	6018.82	1029.65	-1023.70	-192.40	1041.63	190.64	2.64	SlimPulse	0	0	0
69	7191.00	89.79	187.04	94.00	6018.17	1123.50	-1117.33	-200.45	1135.17	190.17	4.70	SlimPulse	0	0	0
70	7286.00	89.83	189.59	95.00	6018.49	1217.90	-1211.32	-214.19	1230.12	190.03	2.68	SlimPulse	0	0	0
71	7381.00	90.00	189.05	95.00	6018.63	1312.12	-1305.07	-229.58	1325.10	189.98	0.60	SlimPulse	0	0	0
72	7475.00	90.07	185.28	94.00	6018.57	1405.71	-1398.32	-241.30	1419.00	189.79	4.01	SlimPulse	0	0	0
73	7570.00	90.07	183.17	95.00	6018.46	1500.63	-1493.05	-248.31	1513.55	189.44	2.23	SlimPulse	0	0	0
74	7665.00	89.97	178.61	95.00	6018.43	1595.59	-1588.02	-249.78	1607.55	188.94	4.80	SlimPulse	0	0	0
75	7759.00	89.93	174.45	94.00	6018.51	1689.15	-1681.82	-244.09	1699.44	188.26	4.43	SlimPulse	0	0	0
76	7854.00	90.21	171.87	95.00	6018.40	1783.02	-1776.14	-232.77	1791.34	187.47	2.73	SlimPulse	0	0	0
77	7949.00	90.00	172.47	95.00	6018.23	1876.64	-1870.25	-219.83	1883.14	186.70	0.67	SlimPulse	0	0	0
78	8043.00	90.03	170.09	94.00	6018.20	1969.01	-1963.16	-205.58	1973.88	185.98	2.54	SlimPulse	0	0	0
79	8138.00	90.07	172.09	95.00	6018.12	2062.31	-2057.01	-190.86	2065.85	185.30	2.11	SlimPulse	0	0	0
80	8232.00	89.76	174.37	94.00	6018.26	2155.21	-2150.34	-179.78	2157.84	184.78	2.45	SlimPulse	0	0	0
81	8327.00	90.03	175.76	95.00	6018.43	2249.52	-2244.99	-171.60	2251.54	184.37	1.49	SlimPulse	0	0	0
82	8421.00	89.73	175.44	94.00	6018.62	2342.95	-2338.71	-164.39	2344.49	184.02	0.47	SlimPulse	0	0	0
83	8516.00	90.27	175.26	95.00	6018.62	2437.32	-2433.40	-156.70	2438.45	183.68	0.61	SlimPulse	0	0	0
84	8611.00	89.97	177.93	95.00	6018.42	2531.90	-2528.22	-151.06	2532.74	183.42	2.82	SlimPulse	0	0	0
85	8705.00	90.00	180.58	94.00	6018.45	2625.78	-2622.21	-149.83	2626.48	183.27	2.83	SlimPulse	0	0	0

86	8800.00	90.24	181.11	95.00	6018.25	2720.77	-2717.20	-151.23	2721.39	183.19	0.61	SlimPulse	0	0	0
87	8894.00	90.10	178.22	94.00	6017.97	2814.68	-2811.18	-150.68	2815.22	183.07	3.07	SlimPulse	0	0	0
88	8988.00	90.28	175.47	94.00	6017.66	2908.30	-2905.03	-145.50	2908.66	182.87	2.93	SlimPulse	0	0	0
89	9083.00	89.83	178.21	95.00	6017.58	3002.91	-2999.88	-140.26	3003.15	182.68	2.92	SlimPulse	0	0	0
90	9177.00	89.83	181.89	94.00	6017.86	3096.84	-3093.86	-140.34	3097.05	182.60	3.92	SlimPulse	0	0	0
91	9271.00	90.24	181.40	94.00	6017.80	3190.84	-3187.82	-143.04	3191.04	182.57	0.68	SlimPulse	0	0	0
92	9365.00	90.34	179.36	94.00	6017.32	3284.80	-3281.81	-143.65	3284.94	182.51	2.17	SlimPulse	0	0	0
93	9460.00	89.93	180.86	95.00	6017.09	3379.75	-3376.81	-143.84	3379.86	182.44	1.65	SlimPulse	0	0	0
94	9554.00	90.17	181.03	94.00	6017.01	3473.73	-3470.80	-145.39	3473.85	182.40	0.31	SlimPulse	0	0	0
95	9649.00	89.93	180.63	95.00	6016.92	3568.71	-3565.79	-146.77	3568.80	182.36	0.49	SlimPulse	0	0	0
96	9743.00	90.07	182.55	94.00	6016.92	3662.71	-3659.75	-149.37	3662.80	182.34	2.05	SlimPulse	0	0	0
97	9836.00	90.10	182.83	93.00	6016.78	3755.70	-3752.64	-153.74	3755.81	182.35	0.31	SlimPulse	0	0	0
98	9931.00	90.10	182.82	95.00	6016.61	3850.69	-3847.53	-158.42	3850.79	182.36	0.01	SlimPulse	0	0	0
99	10025.00	90.21	180.77	94.00	6016.36	3944.68	-3941.48	-161.37	3944.78	182.34	2.18	SlimPulse	0	0	0
100	10119.00	90.17	177.17	94.00	6016.05	4038.54	-4035.45	-159.69	4038.62	182.27	3.83	SlimPulse	0	0	0
101	10213.00	90.31	176.16	94.00	6015.66	4132.14	-4129.28	-154.22	4132.15	182.14	1.09	SlimPulse	0	0	0
102	10288.00	90.31	176.16	75.00	6015.25	4206.76	-4204.11	-149.20	4206.76	182.03	0.00	Other	9	0	7

Calibration Report

SPULSE-GEN (SlimPulse with Generic Collar) Calibration - Run Run001									
Primary Equipment :									
Elec. cartridge, 150C max with GR				SPEC			554		
GRGain - Gamma Ray: Blanket									
Master (Time Frame File):		12:00:00 15-Jan-2016							
Measurement		Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div></div>	
Gamma Ray Calibration Gain			Master	1.0000	0.9000	1.0536	1.1000	<div><div></div><div></div><div></div></div>	

SPULSE-GEN (SlimPulse with Generic Collar) Calibration - Run Run002									
Primary Equipment :									
Elec. cartridge, 150C max with GR				SPEC			984		
GRGain - Gamma Ray: Blanket									
Master (Time Frame File):		12:00:00 06-Jan-2016							
Measurement		Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div></div>	
Gamma Ray Calibration Gain			Master	1.0000	0.9000	1.0849	1.1000	<div><div></div><div></div><div></div></div>	

SPULSE-GEN (SlimPulse with Generic Collar) Calibration - Run Run003									
Primary Equipment :									
Elec. cartridge, 150C max with GR				SPEC			879		
GRGain - Gamma Ray: Blanket									
Master (Time Frame File):		12:00:00 30-Oct-2015							
Measurement		Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div></div>	
Gamma Ray Calibration Gain			Master	1.0000	0.9000	1.0983	1.1000	<div><div></div><div></div><div></div></div>	

**Company:** Noble Energy

**Well:** Remora LC34-725

**Field:** Wildcat

**County:** Weld

**State:** Colorado

**Country:** USA



SlmPulse - Gamma Ray

1 in. / 100 ft., True Vertical Depth

Composite Log, Recorded Mode