

LWD Realtime Log



Natural Formation Evaluation  
Gamma Ray

Scale:

1:1200 TVD

Company: Noble Energy

Well: Wells Ranch AA22-617

Depth Reference:

Field: Weld County

Driller's Depth

County: Weld County State: Colorado

Status:

Final Print

Surface Location:

Latitude:

040° 28' 3.108" N

Other Services:

API No: 05-123-42266-00

Longitude:

104° 25' 55.056" W

Job ID: 7874215

SEC: 22

TWN: 6N

RGE: 63W

Permanent Datum (P.D.): Ground Level

Elevation: 4745.00 ft

KB: 0.00 ft

Log Measured From: Rig Floor

Above P.D.

30.00 ft

DF: 4775.00 ft  
GL: 4745.00 ft

Dates

Interval Logged

Magnetic Field Reference

Date From: 2016-04-07 Top: (ft) 1911.00

Azi Reference North: Grid Dip Angle: (deg)

67.17

Date To: 2016-04-10 Bottom: (ft) 6635.00

Total Magnetic Field Strength: (nT)

52425

Spud Date: 2016-04-06

Mag to Reference North Correction: (deg)

7.25 E

Borehole Record

Casing Record

Hole Size (in) From (ft) To (ft)

Size (in)

Weight (lb/ft)

From (ft)

To (ft)

8.500 1922.00 15931.00

9.625

36.00

0.00

1911.00

Mud Record

Deviation Record

Type

From (ft)

To (ft)

Hole Size (in)

Interval (ft)

Inc | Az (Start)

Inc | Az (End)

Diesel Oil Based Mud 1922.00 15931.00

8.500

14009.00

0.44 | 254.84

89.83 | 82.22

Acquisition System

Software Version

Other

Baker Hughes Cadence

G3.2

Rig:

H&P 321

Pilot Studio

3.2.7268.7

Contractor:

Helmerich & Payne Drilling Co

District:

RMA

Unit:

D&E

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Log Run Summary

Run No	Bit Run No.	Bit Size (in)	Bit Type	Bit Gauge Length (in)	Assembly Type	Logged Interval		Bit Depth Interval		Date / Time		Circ. Hours (h)
						Top	Bottom	From	To	Start Logging	End Logging	
						(ft)	(ft)	(ft)	(ft)			
1	1	8.500	PDC	2.00	AutoTrak Curve	1911.00	15931.00	1922.00	15931.00	2016-04-07 19:23	2016-04-10 20:02	64.80

Crew

Name		Arrive Wellsite	Depart Wellsite	Name		Arrive Wellsite	Depart Wellsite	Name		Arrive Wellsite	Depart Wellsite
Alex Osbourne		2016-04-07	2016-04-11	Austin Small		2016-04-07	2016-04-09	Hans Carey		2016-04-07	2016-04-11
Mike Guernsey		2016-04-07	2016-04-11	Matthew Delmore		2016-04-09	2016-04-11				

Mud Properties Record

Date / Time		Run No.	Measured Depth (ft)	Mud Type	Density (ppg)	Viscosity (cP)	pH	Fluid Loss (cm3)	Oil / Water	Source	Total Chlorides (ppm)	K+ (%)
2016-04-07 17:24		1	1920.00	Diesel-Oil Based Mud	10.0	54	N/A	17.6	65	Active Pit	35500	0.00
2016-04-08 20:23		1	6818.00	Diesel-Oil Based Mud	9.6	45	N/A	17.2	60	Active Pit	44500	0.00
2016-04-09 21:01		1	11714.00	Diesel-Oil Based Mud	9.6	42	N/A	16.0	62.5	Active Pit	43500	0.00
2016-04-10 02:22		1	15521.00	Diesel-Oil Based Mud	9.8	43	N/A	16.8	63	Active Pit	42000	0.00

Equipment and Service Data

Run No.	Tool	Serial Number	Measurement	Sensor Offset (ft)	Bit Offset (ft)	Max O.D. (in)	Min I.D. (in)
1	ATC_SU	12273683	Near Bit VSS	5.93	6.57	7.020	4.330
1	ATC_SU	12273683	Near Bit Inclination	5.93	6.57	7.020	4.330
1	ATC_MWD	12252765	Gamma (single)	2.14	12.19	7.000	3.250
1	ATC_MWD	12252765	Directional (mag)	12.21	22.26	7.000	3.250

Service and Tool Mnemonics


Mnemonic	Name	Description
ATC_SU	ATC_SU	Auto Trak Curve Steering Unit
ATC_MWD	ATC_MWD	Auto Trak Curve MWD
ATC_LCPM	ATC_LCPM	Auto Trak Curve LCPM

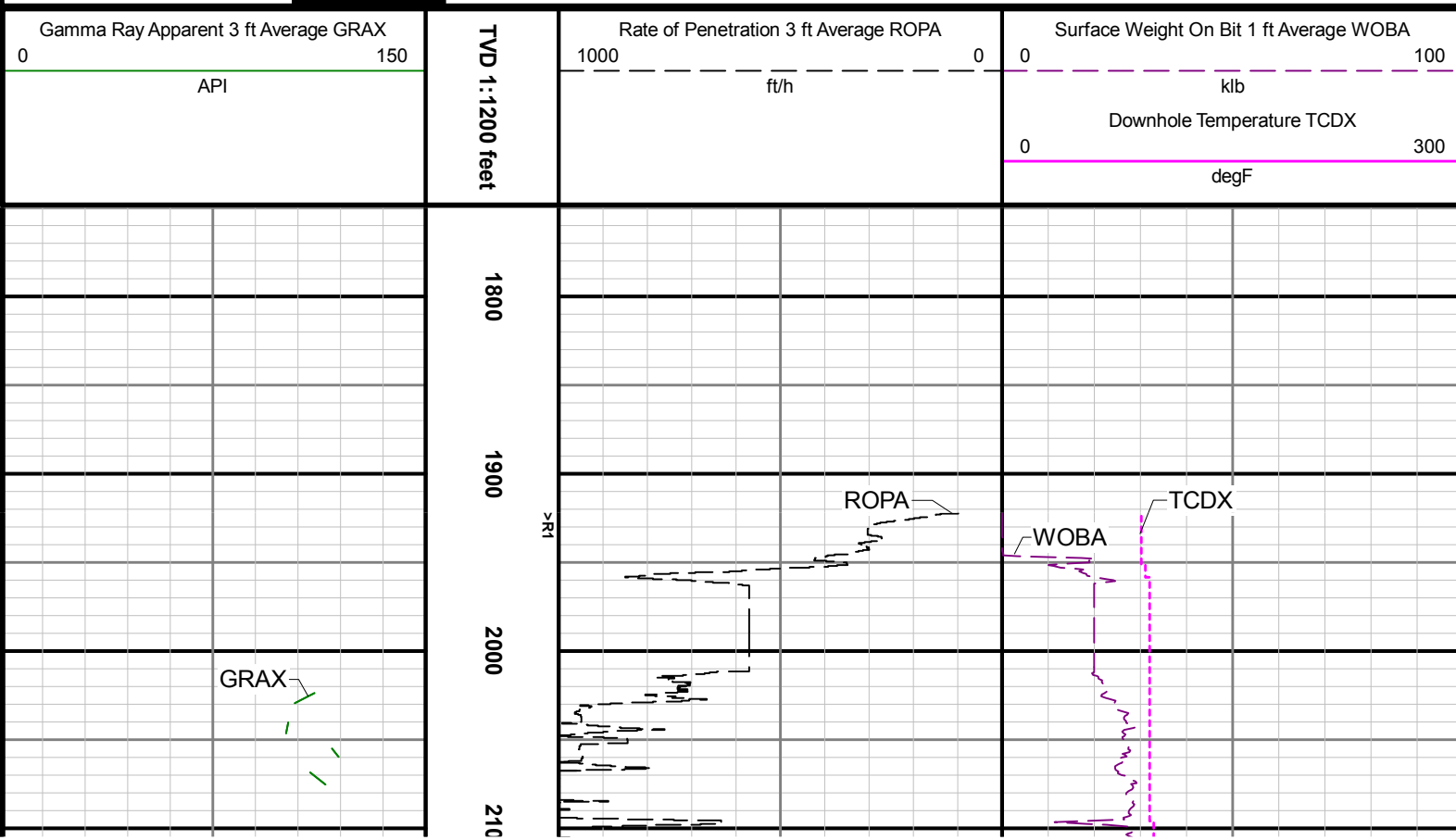
Comments

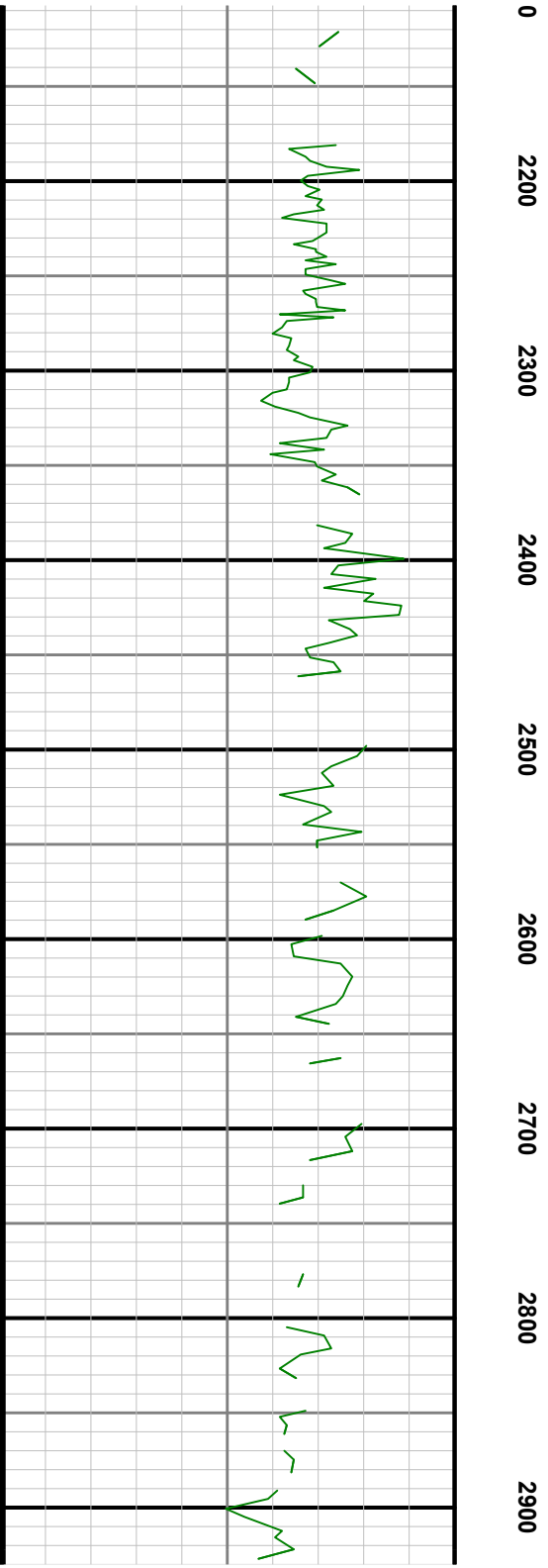
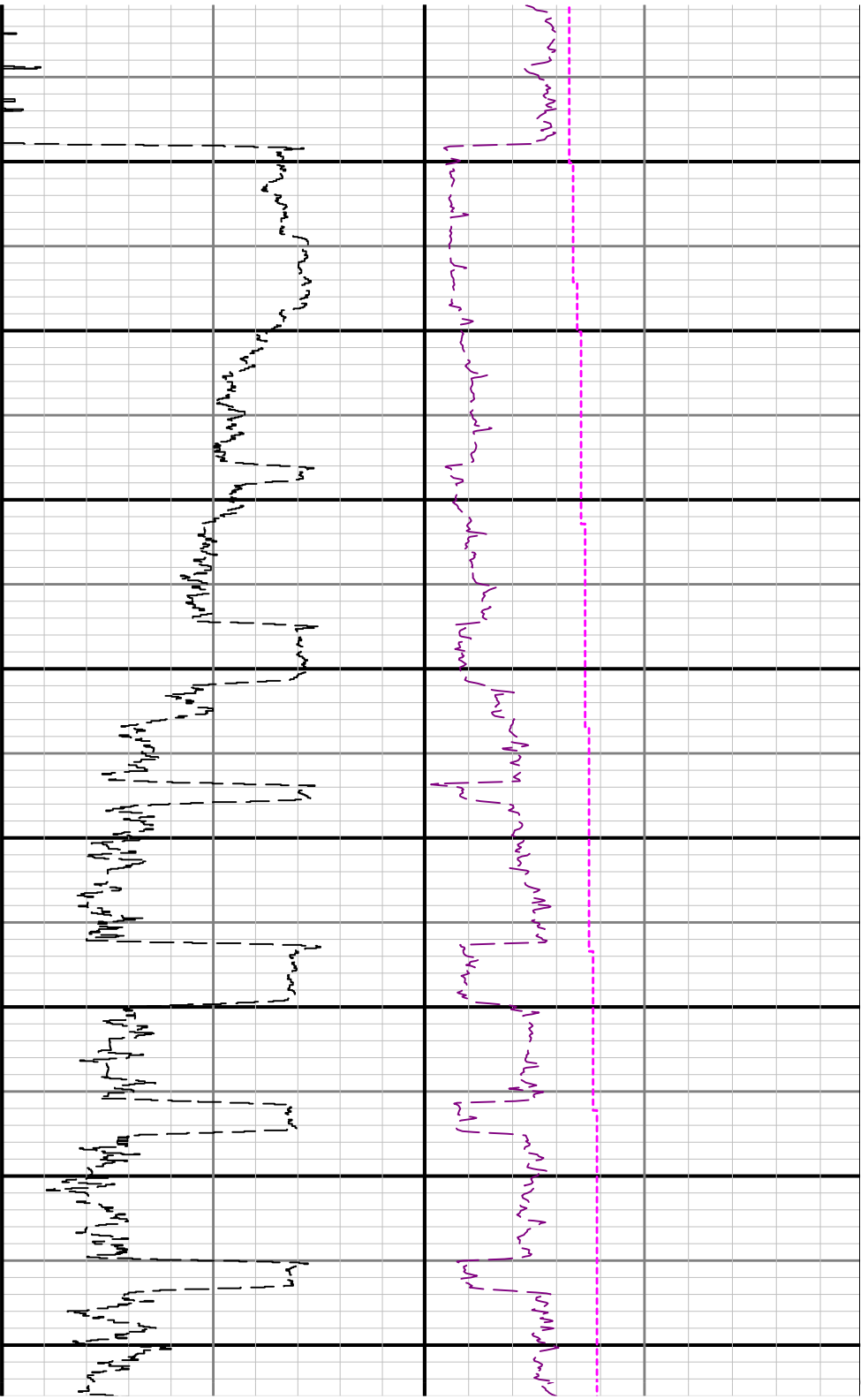
- 1 Depth measurements obtained from a depth control system not supplied or operated by Baker Hughes. Due to a lack of control by Baker Hughes logging engineers, depth calibrations and measurements could not be independently verified.
- 2 Baker Hughes' Run 1 utilized a 6.50 inch AutoTrak Curve Rotary Steerable assembly tool behind a 8.50 inch bit from 1911 to 15931 feet MD (1911 to 6634 feet TVD).

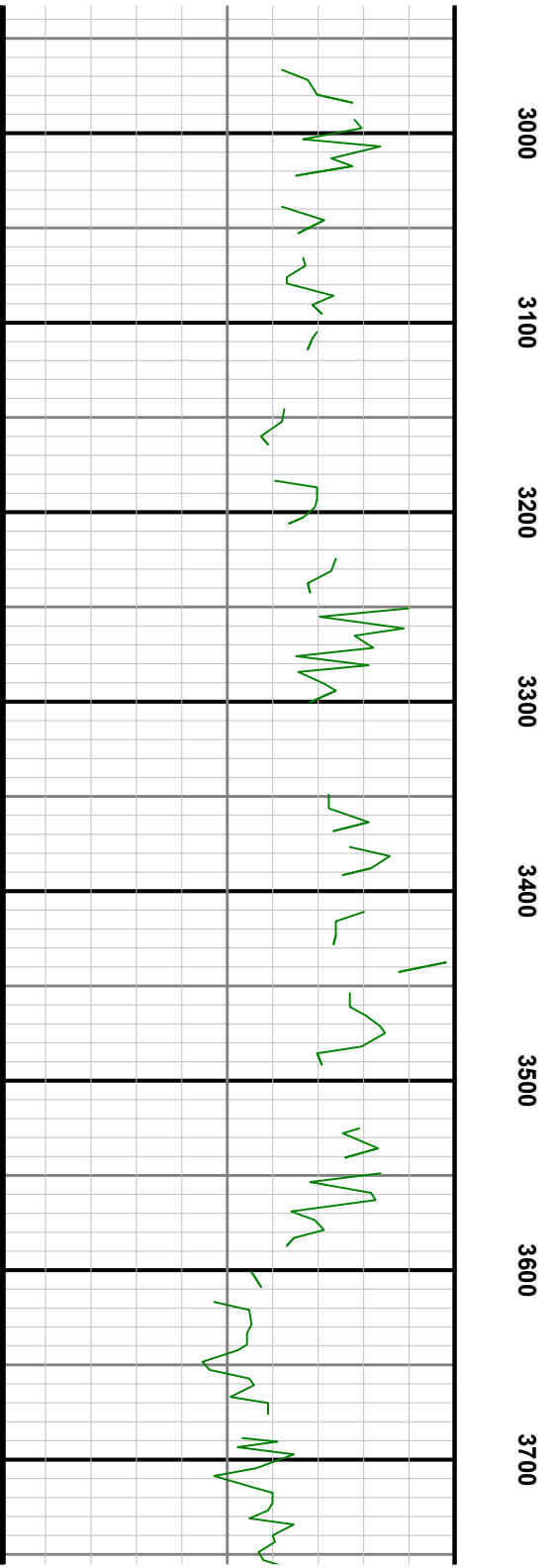
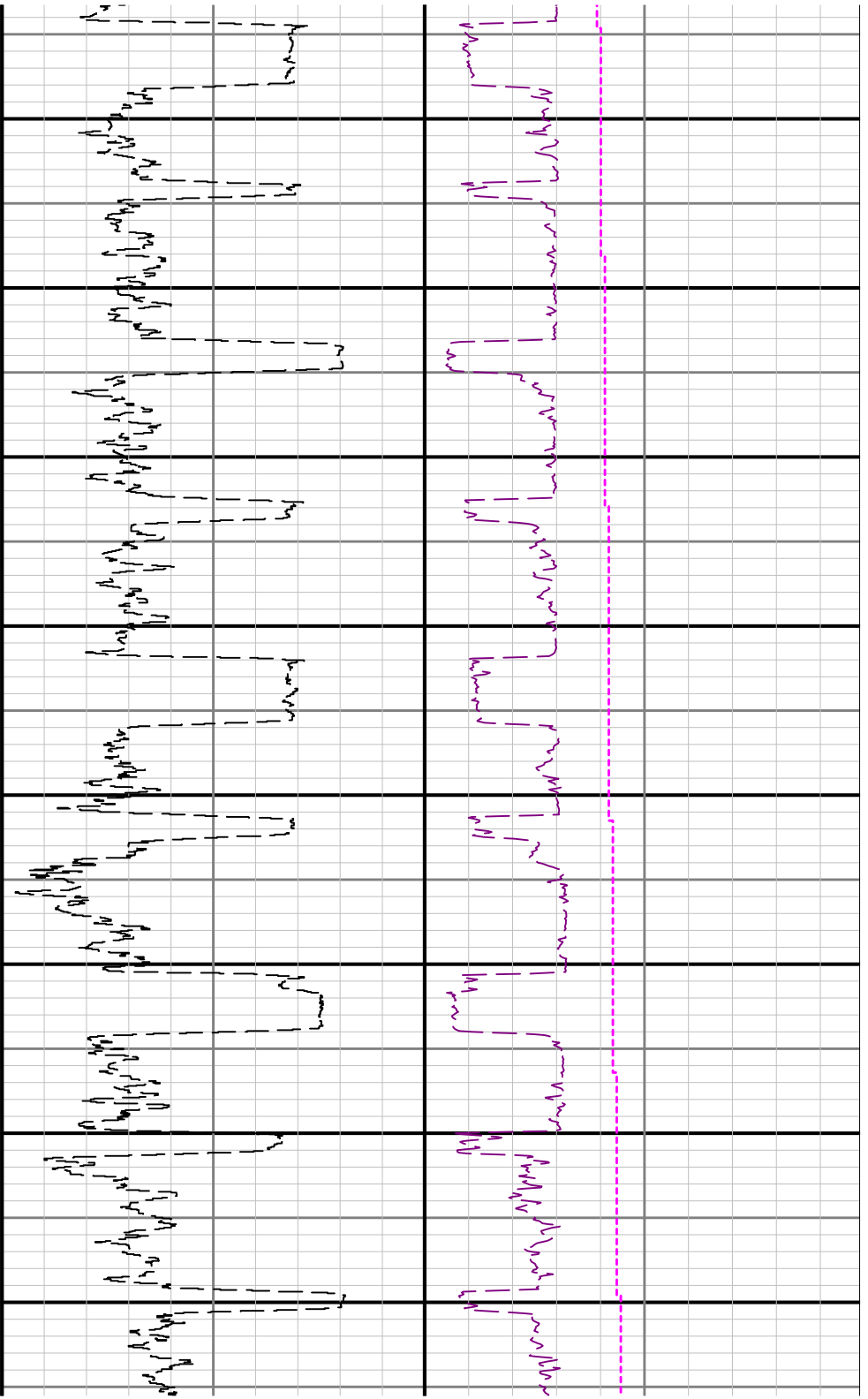
## Curve Mnemonics

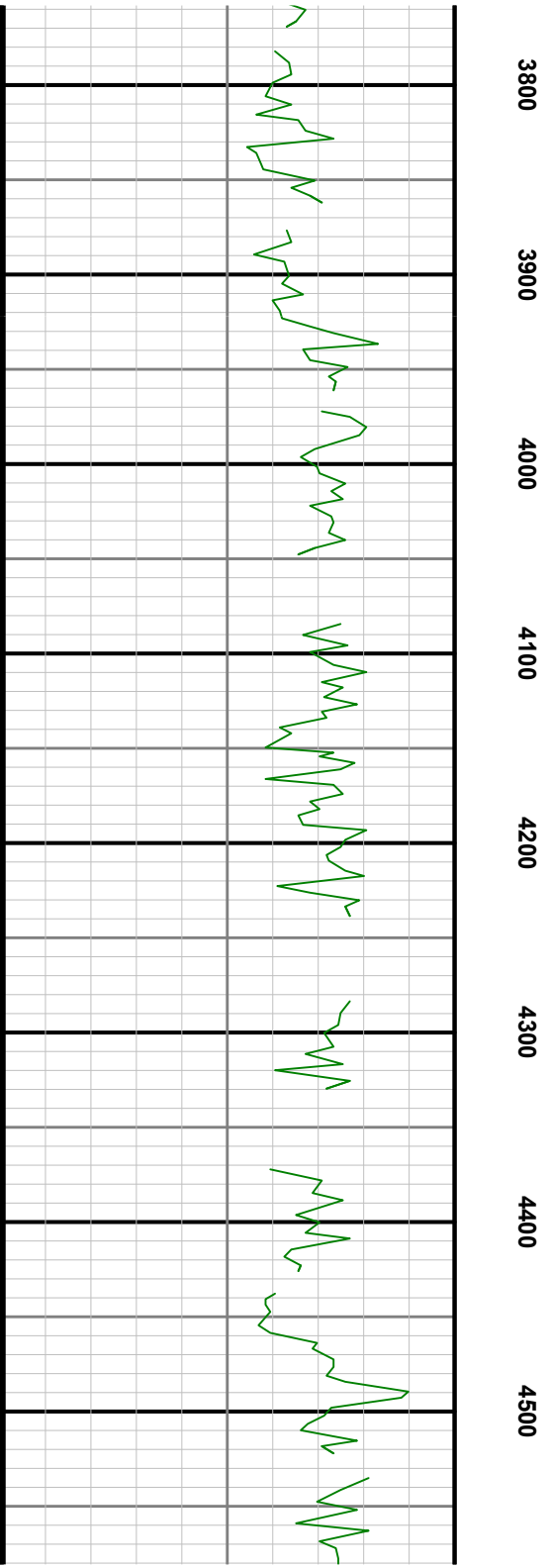
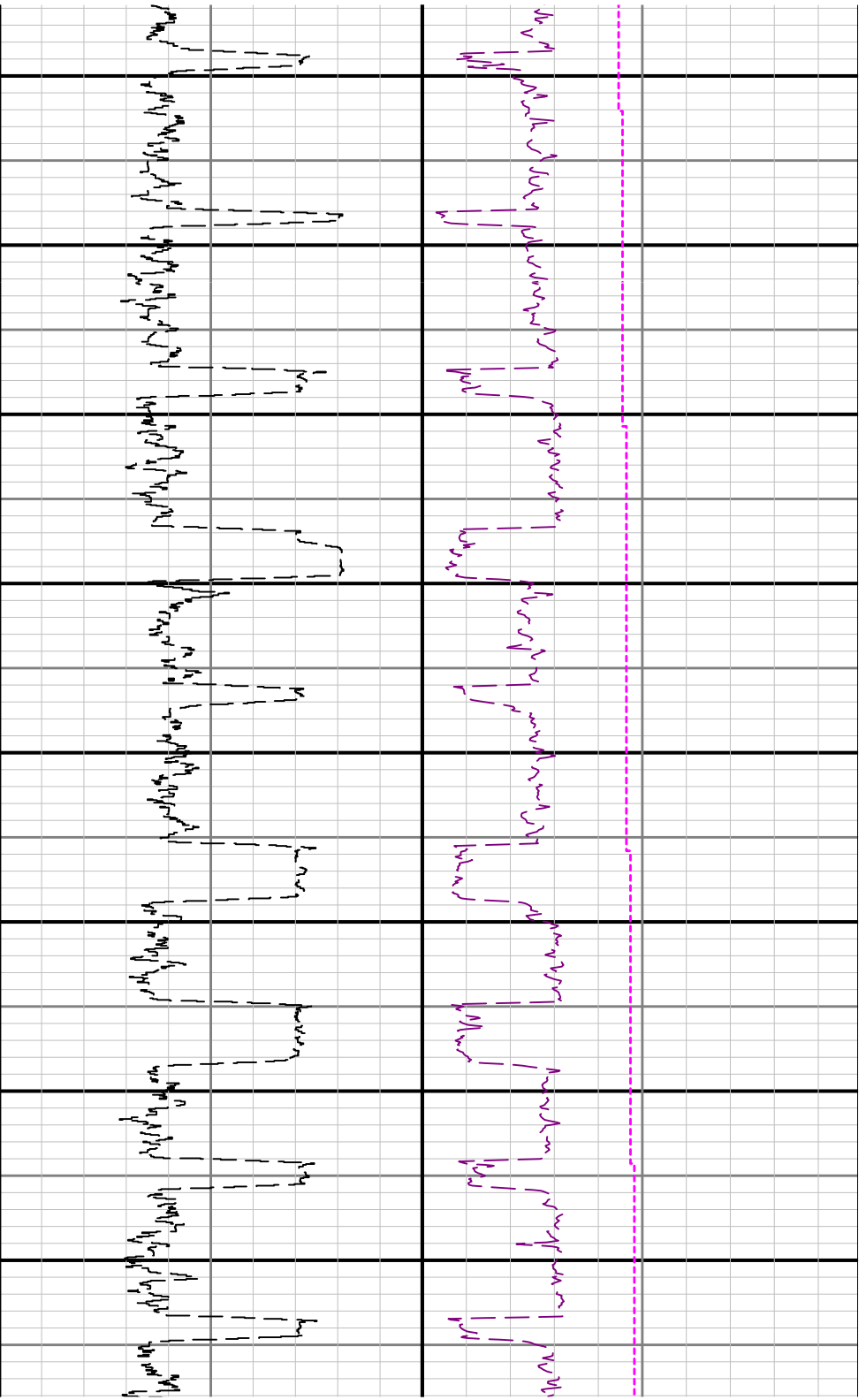
Presented Curves	Description	Units
ROPA	Depth Averaged ROP 3 ft Average	ft/h
GRAX	Gamma Ray - Apparent 3 ft Average	API
TCDX	Downhole Temperature	degF
WOBA	Weight On Bit, Average 1 ft Average	klb

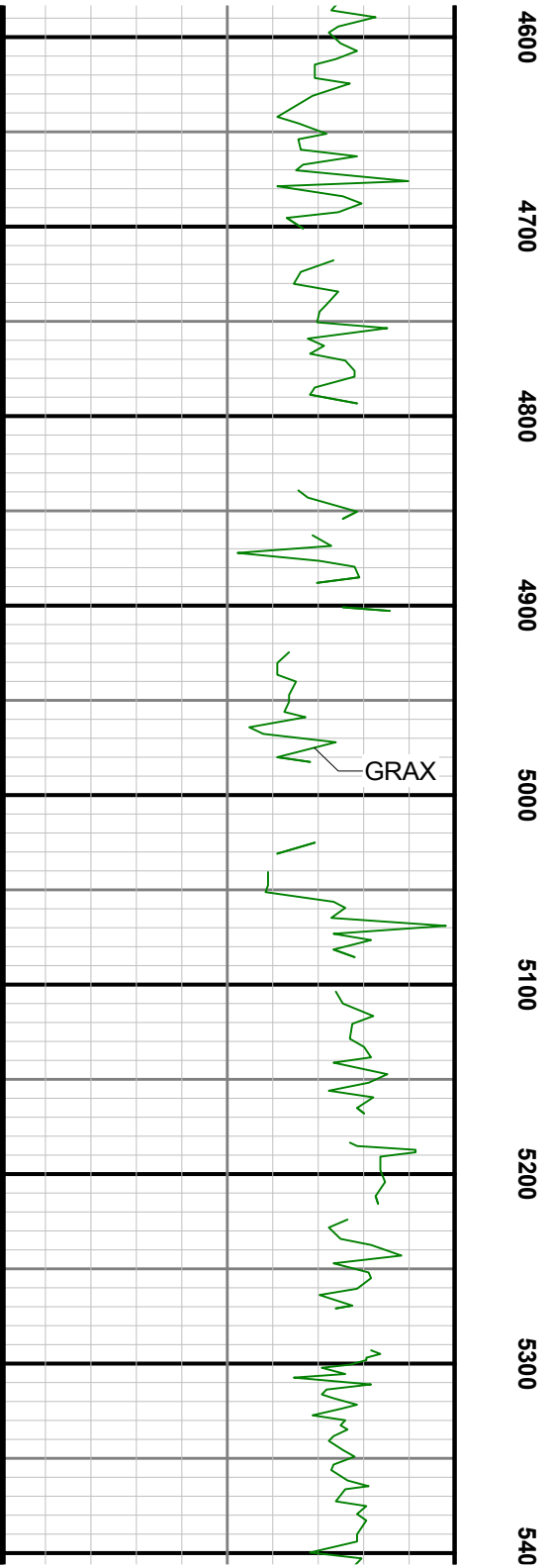
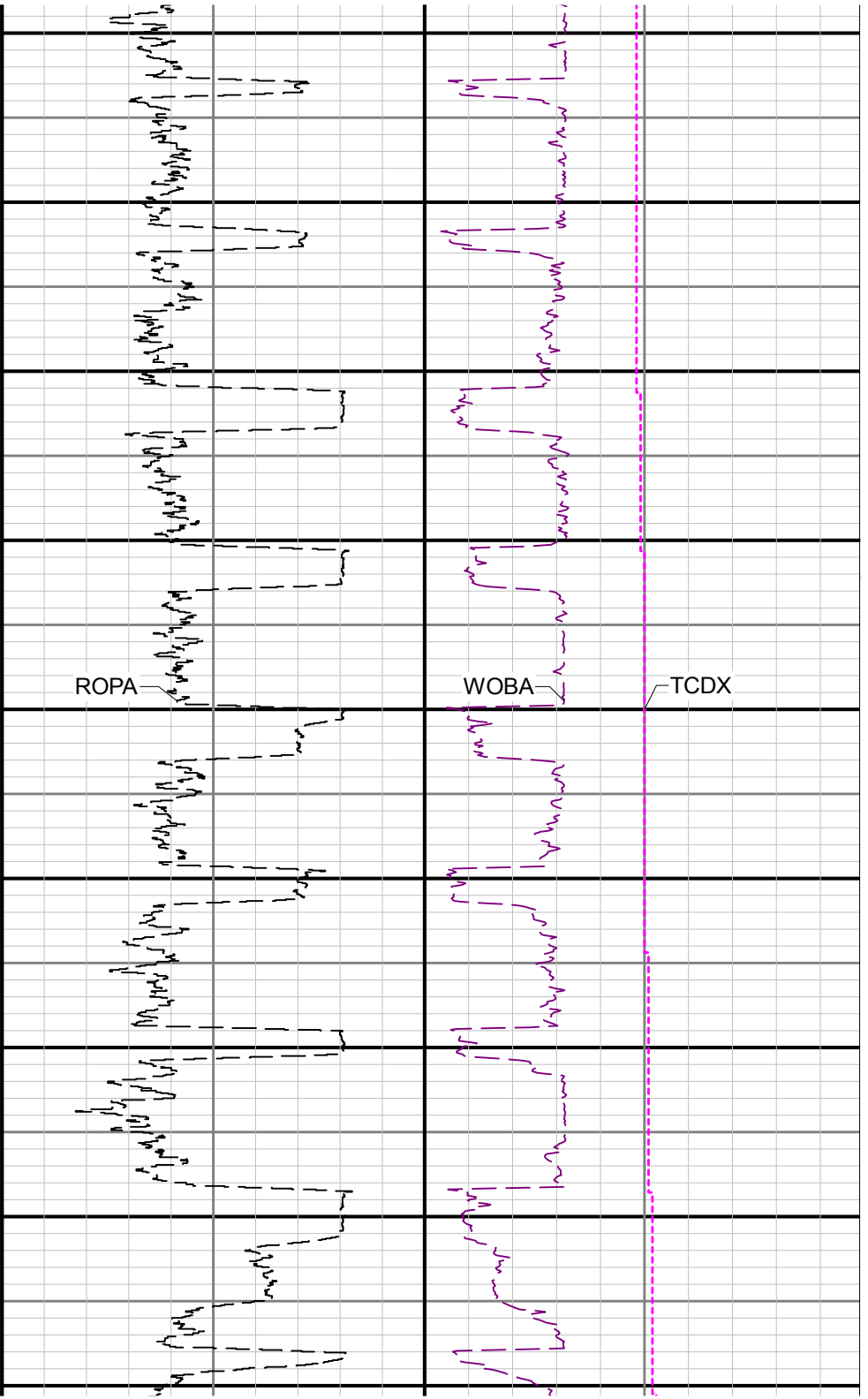
	<b>Company</b>	Noble Energy			
	<b>Well</b>	Wells Ranch AA22-617			
	<b>Interval</b>	<b>Date From:</b>	2016-04-07 13:23	<b>Top:</b>	1911.00
		<b>Date To:</b>	2016-04-10 12:33	<b>Bottom:</b>	6635.00
	<b>Created</b>	2016-04-11 08:24			

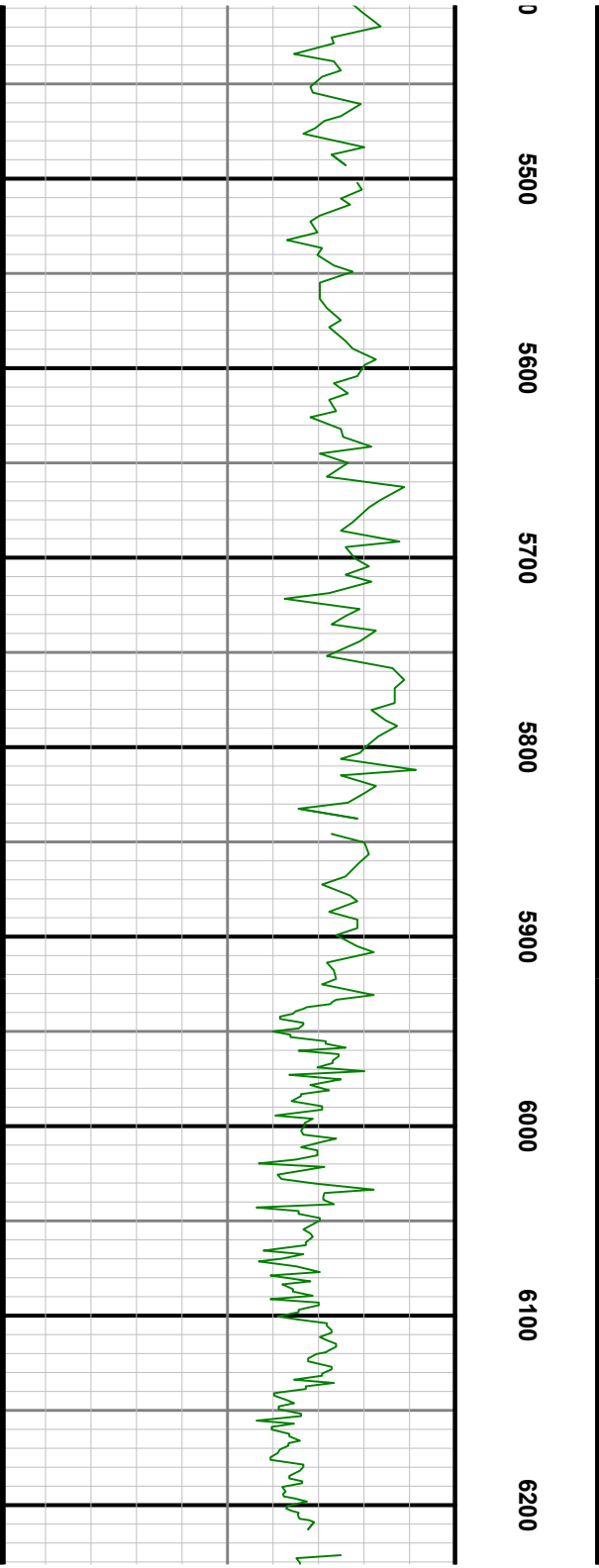
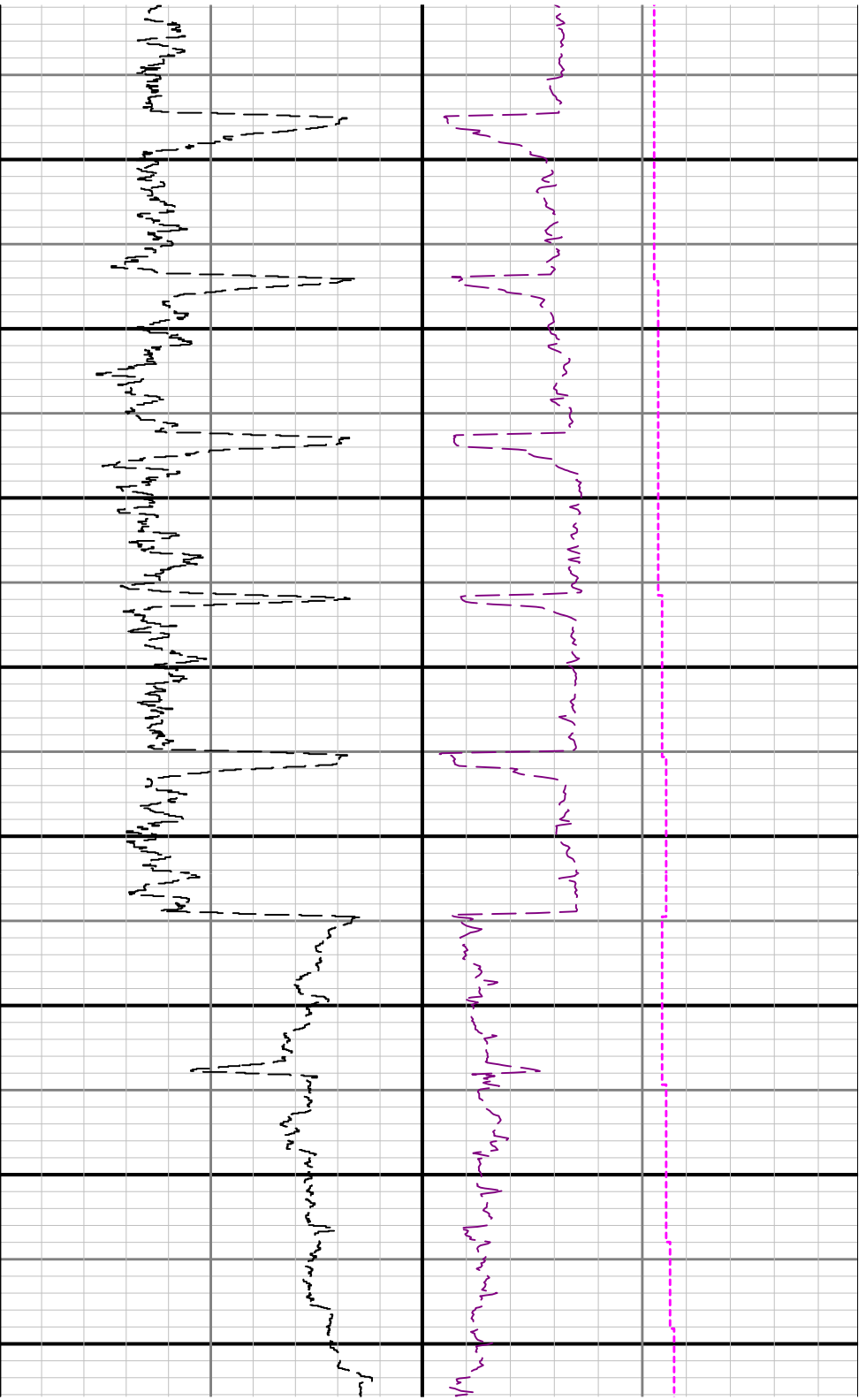




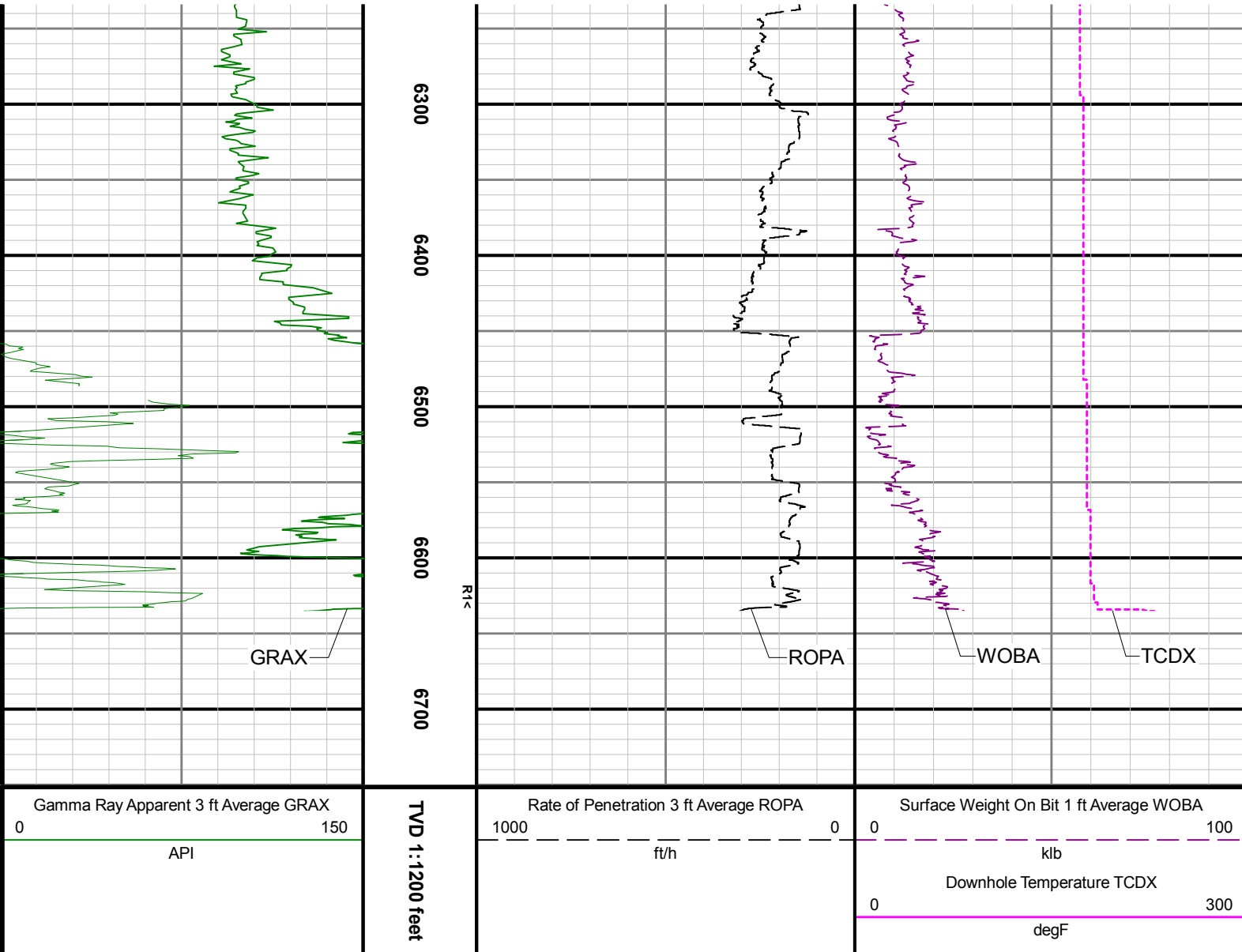












## Directional Survey Summary

Latitude:	040° 28' 3.108" N	Longitude:	104° 25' 55.056" W
North Reference:	Grid	Drill Depth Zero:	Rig Floor
Vertical Datum is:	Ground Level	Vertical Datum to DDZ: (ft)	30.00
Vertical Section North: (m)	0.00	Vertical Section East: (m)	0.00
Vertical Section Azimuth: (deg)	92.72		
Grid Convergence: (deg)	-0.71	Magnetic Declination: (deg)	7.96
Total Correction: (deg)	7.25	TVD Calculation Method:	Minimum Curvature
Magnetic Correction:	Off	Local Magnetic Field: (nT)	52425
Local Magnetic Dip Angle: (deg)	67.17	Local Gravity Field: (m/s2)	9.801

Tie-In /	Measured	Inclination	Azimuth	Temperature	North	East	True Vertical	Vertical	Course	Dog Leg	Build Rate	Turn Rate
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Projection	Depth (ft)	(deg)	(deg)	(degF)	(ft)	(ft)	Depth (ft)	Section (ft)	Length (ft)	Severity (deg/100ft)	(deg/100ft)	(deg/100ft)
Tie-In	0.00	0.00	0.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1902.00	0.44	254.84	N/A	-3.98	-4.64	1901.97	-4.45	1902.00	0.43	0.39	28.00
	1980.00	0.13	0.96	N/A	-3.97	-4.93	1979.97	-4.73	78.00	0.63	-0.40	136.05
	2075.00	0.22	78.42	N/A	-3.82	-4.75	2074.97	-4.56	95.00	0.24	0.09	81.54
	2170.00	0.15	317.86	N/A	-3.69	-4.65	2169.97	-4.47	95.00	0.34	-0.07	-126.91
	2264.00	2.31	181.05	N/A	-5.50	-4.77	2263.95	-4.50	94.00	2.58	2.30	-145.54
	2359.00	5.09	187.72	N/A	-11.59	-5.37	2358.74	-4.81	95.00	2.96	2.93	7.02
	2453.00	7.73	190.37	N/A	-21.94	-7.07	2452.14	-6.02	94.00	2.83	2.81	2.82
	2548.00	8.76	188.72	112.2	-35.38	-9.32	2546.16	-7.63	95.00	1.11	1.08	-1.74
	2643.00	8.67	186.60	N/A	-49.64	-11.24	2640.06	-8.87	95.00	0.35	-0.09	-2.23
	2832.00	8.77	181.47	N/A	-78.19	-13.24	2826.88	-9.52	189.00	0.41	0.05	-2.71
	2926.00	8.57	174.35	N/A	-92.33	-12.74	2919.81	-8.34	94.00	1.16	-0.21	-7.57
	3021.00	8.65	174.44	N/A	-106.48	-11.35	3013.74	-6.28	95.00	0.09	0.08	0.09
	3116.00	8.75	172.93	N/A	-120.76	-9.77	3107.65	-4.02	95.00	0.26	0.11	-1.59
	3211.00	9.46	176.89	N/A	-135.73	-8.45	3201.45	-2.00	95.00	1.00	0.75	4.17
	3305.00	9.90	186.14	N/A	-151.48	-8.90	3294.12	-1.70	94.00	1.72	0.47	9.84
	3400.00	9.33	193.42	N/A	-167.09	-11.56	3387.79	-3.62	95.00	1.41	-0.60	7.66
	3495.00	10.09	201.15	N/A	-182.34	-16.35	3481.43	-7.68	95.00	1.59	0.80	8.14
	3589.00	9.77	201.24	N/A	-197.46	-22.21	3574.02	-12.81	94.00	0.34	-0.34	0.10
	3684.00	10.08	198.62	N/A	-212.85	-27.78	3667.60	-17.65	95.00	0.58	0.33	-2.76
	3779.00	10.15	194.86	N/A	-228.82	-32.59	3761.12	-21.69	95.00	0.70	0.07	-3.96
	3874.00	10.23	190.47	N/A	-245.20	-36.27	3854.63	-24.59	95.00	0.82	0.08	-4.62
	3969.00	9.78	189.46	N/A	-261.46	-39.12	3948.18	-26.67	95.00	0.51	-0.47	-1.06
	4063.00	9.61	190.65	N/A	-277.04	-41.89	4040.84	-28.69	94.00	0.28	-0.18	1.27
	4158.00	9.96	190.34	N/A	-292.92	-44.83	4134.46	-30.88	95.00	0.37	0.37	-0.33
	4253.00	10.11	184.89	N/A	-309.31	-47.01	4228.01	-32.28	95.00	1.01	0.16	-5.74
	4347.00	10.30	184.64	N/A	-325.91	-48.40	4320.52	-32.88	94.00	0.21	0.20	-0.27
	4442.00	9.91	182.55	N/A	-342.54	-49.45	4414.05	-33.14	95.00	0.56	-0.41	-2.20
	4537.00	10.28	182.79	N/A	-359.17	-50.22	4507.57	-33.12	95.00	0.39	0.39	0.25
	4631.00	9.78	186.01	N/A	-375.49	-51.47	4600.14	-33.59	94.00	0.80	-0.53	3.43
	4726.00	10.30	185.69	N/A	-391.96	-53.15	4693.68	-34.49	95.00	0.55	0.55	-0.34
	4820.00	10.00	172.83	N/A	-408.43	-52.97	4786.22	-33.53	94.00	2.43	-0.32	-13.68
	4915.00	6.73	164.80	N/A	-421.99	-50.48	4880.20	-30.40	95.00	3.65	-3.44	-8.45
	5009.00	5.09	163.74	N/A	-431.31	-47.87	4973.70	-27.35	94.00	1.75	-1.74	-1.13
	5104.00	4.35	182.31	N/A	-438.95	-46.83	5068.38	-25.95	95.00	1.78	-0.78	19.55
	5199.00	4.30	193.34	N/A	-446.02	-47.80	5163.11	-26.58	95.00	0.88	-0.05	11.61
	5294.00	2.87	194.30	N/A	-451.79	-49.21	5257.93	-27.71	95.00	1.51	-1.51	1.01
	5388.00	0.25	120.77	N/A	-454.17	-49.61	5351.89	-28.00	94.00	2.99	-2.79	-78.22
	5483.00	0.14	99.89	N/A	-454.30	-49.32	5446.89	-27.71	95.00	0.14	-0.12	-21.98
	5578.00	0.16	200.65	N/A	-454.44	-49.25	5541.88	-27.63	95.00	0.24	0.02	106.06
	5672.00	0.15	204.56	N/A	-454.68	-49.35	5635.88	-27.72	94.00	0.02	-0.01	4.16
	5767.00	0.19	202.60	N/A	-454.94	-49.46	5730.88	-27.82	95.00	0.04	0.04	-2.06
	5862.00	0.19	180.80	N/A	-455.24	-49.53	5825.88	-27.87	95.00	0.08	0.00	-22.95
	5957.00	0.10	30.26	N/A	-455.33	-49.49	5920.88	-27.82	95.00	0.30	-0.09	-158.46
	6051.00	8.15	72.73	N/A	-453.27	-43.07	6014.56	-21.51	94.00	8.59	8.56	45.18
	6146.00	14.70	76.29	N/A	-448.41	-24.91	6107.63	-3.60	95.00	6.93	6.89	3.75
	6241.00	20.68	84.89	N/A	-444.06	3.54	6198.11	24.61	95.00	6.85	6.29	9.05
	6335.00	27.17	90.28	N/A	-442.68	41.58	6284.00	62.54	94.00	7.28	6.90	5.73
	6430.00	36.42	91.82	N/A	-443.68	91.56	6364.66	112.51	95.00	9.77	9.74	1.62
	6524.00	44.67	94.48	N/A	-447.16	152.50	6436.03	173.55	94.00	8.97	8.78	2.83
	6619.00	52.07	91.07	N/A	-450.47	223.36	6499.11	244.49	95.00	8.24	7.79	-3.59
	6714.00	58.84	90.59	N/A	-451.59	301.56	6552.95	322.65	95.00	7.14	7.13	-0.51
	6809.00	68.51	90.93	N/A	-452.73	386.60	6595.03	407.65	95.00	10.18	10.18	0.36

	6903.00	78.48	92.42	N/A	-455.39	476.57	6621.70	497.64	94.00	10.71	10.61	1.59
	6998.00	88.20	92.37	N/A	-459.33	570.73	6632.71	591.89	95.00	10.23	10.23	-0.05
	7092.00	90.17	91.20	N/A	-462.26	664.67	6634.04	685.86	94.00	2.44	2.10	-1.24
	7187.00	90.27	91.79	N/A	-464.73	759.64	6633.68	780.84	95.00	0.63	0.11	0.62
	7282.00	90.45	91.50	N/A	-467.46	854.60	6633.08	875.82	95.00	0.36	0.19	-0.31
	7377.00	90.08	90.76	N/A	-469.34	949.58	6632.64	970.78	95.00	0.87	-0.39	-0.78
	7471.00	90.11	91.99	N/A	-471.59	1043.55	6632.49	1064.75	94.00	1.31	0.03	1.31
	7566.00	90.08	91.43	N/A	-474.43	1138.50	6632.33	1159.74	95.00	0.59	-0.03	-0.59
	7661.00	90.30	90.33	N/A	-475.88	1233.49	6632.01	1254.69	95.00	1.18	0.23	-1.16
	7755.00	89.87	90.07	N/A	-476.21	1327.49	6631.87	1348.59	94.00	0.53	-0.46	-0.28
	7850.00	89.62	89.68	N/A	-476.01	1422.49	6632.30	1443.48	95.00	0.49	-0.26	-0.41
	7945.00	89.93	88.68	N/A	-474.65	1517.48	6632.67	1538.29	95.00	1.10	0.33	-1.05
	8040.00	90.08	88.32	N/A	-472.16	1612.44	6632.66	1633.03	95.00	0.41	0.16	-0.38
	8134.00	90.02	87.71	N/A	-468.90	1706.39	6632.58	1726.72	94.00	0.65	-0.06	-0.65
	8229.00	90.11	86.62	N/A	-464.20	1801.27	6632.47	1821.27	95.00	1.15	0.09	-1.15
	8324.00	90.02	87.27	N/A	-459.14	1896.13	6632.36	1915.79	95.00	0.69	-0.09	0.68
	8418.00	90.02	88.76	N/A	-455.89	1990.08	6632.33	2009.47	94.00	1.59	0.00	1.59
	8513.00	89.93	92.42	N/A	-456.86	2085.05	6632.37	2104.39	95.00	3.85	-0.09	3.85
	8608.00	89.86	92.17	N/A	-460.67	2179.98	6632.55	2199.38	95.00	0.27	-0.07	-0.26
	8703.00	89.89	91.11	N/A	-463.39	2274.94	6632.75	2294.36	95.00	1.12	0.03	-1.12
	8797.00	89.77	89.76	N/A	-464.10	2368.93	6633.03	2388.29	94.00	1.44	-0.13	-1.44
	8892.00	89.80	89.05	N/A	-463.11	2463.93	6633.39	2483.13	95.00	0.75	0.03	-0.75
	8986.00	89.93	87.27	N/A	-460.10	2557.87	6633.61	2576.83	94.00	1.90	0.14	-1.89
	9081.00	89.93	88.36	N/A	-456.47	2652.80	6633.73	2671.48	95.00	1.15	0.00	1.15
	9176.00	90.02	88.87	N/A	-454.18	2747.77	6633.77	2766.23	95.00	0.55	0.09	0.54
	9271.00	89.86	88.75	N/A	-452.20	2842.75	6633.87	2861.01	95.00	0.21	-0.17	-0.13
	9365.00	90.11	89.53	N/A	-450.79	2936.74	6633.89	2954.83	94.00	0.87	0.27	0.83
	9460.00	90.05	90.15	N/A	-450.53	3031.74	6633.76	3049.71	95.00	0.66	-0.06	0.65
	9554.00	89.96	90.46	N/A	-451.03	3125.74	6633.75	3143.62	94.00	0.34	-0.10	0.33
	9649.00	89.74	90.15	N/A	-451.53	3220.74	6634.00	3238.54	95.00	0.40	-0.23	-0.33
	9743.00	90.02	88.78	N/A	-450.66	3314.73	6634.20	3332.38	94.00	1.49	0.30	-1.46
	9838.00	90.14	89.78	N/A	-449.46	3409.72	6634.06	3427.21	95.00	1.06	0.13	1.05
	9933.00	89.89	90.54	N/A	-449.73	3504.72	6634.04	3522.11	95.00	0.84	-0.26	0.80
	10027.00	89.68	92.03	N/A	-451.84	3598.69	6634.39	3616.08	94.00	1.60	-0.22	1.59
	10122.00	90.02	90.91	N/A	-454.27	3693.66	6634.64	3711.06	95.00	1.23	0.36	-1.18
	10217.00	90.02	94.38	N/A	-458.66	3788.55	6634.61	3806.04	95.00	3.65	0.00	3.65
	10311.00	89.86	93.47	N/A	-465.09	3882.32	6634.71	3900.02	94.00	0.98	-0.17	-0.97
	10406.00	89.86	91.66	N/A	-469.34	3977.22	6634.94	3995.02	95.00	1.91	0.00	-1.91
	10501.00	90.05	92.19	N/A	-472.53	4072.17	6635.01	4090.01	95.00	0.59	0.20	0.56
	10595.00	89.89	91.92	N/A	-475.90	4166.11	6635.06	4184.00	94.00	0.33	-0.17	-0.29
	10690.00	89.86	90.52	N/A	-477.93	4261.09	6635.27	4278.97	95.00	1.47	-0.03	-1.47
	10784.00	89.98	87.35	N/A	-476.18	4355.06	6635.40	4372.75	94.00	3.37	0.13	-3.37
	10879.00	90.05	85.98	N/A	-470.65	4449.89	6635.38	4467.22	95.00	1.44	0.07	-1.44
	10974.00	90.26	85.53	N/A	-463.62	4544.63	6635.12	4561.51	95.00	0.52	0.22	-0.47
	11068.00	90.26	85.85	N/A	-456.56	4638.37	6634.69	4654.81	94.00	0.34	0.00	0.34
	11163.00	90.17	86.82	N/A	-450.48	4733.17	6634.34	4749.22	95.00	1.03	-0.09	1.02
	11258.00	90.14	87.26	N/A	-445.58	4828.04	6634.08	4843.75	95.00	0.46	-0.03	0.46
	11352.00	90.23	87.77	N/A	-441.50	4921.95	6633.78	4937.36	94.00	0.55	0.10	0.54
	11447.00	90.38	88.19	N/A	-438.16	5016.89	6633.27	5032.03	95.00	0.47	0.16	0.44
	11542.00	90.41	88.69	N/A	-435.57	5111.86	6632.61	5126.77	95.00	0.53	0.03	0.53
	11636.00	90.04	90.01	N/A	-434.50	5205.85	6632.25	5220.60	94.00	1.46	-0.39	1.40
	11731.00	90.04	93.17	N/A	-437.14	5300.80	6632.18	5315.57	95.00	3.33	0.00	3.33
	11826.00	90.11	95.53	N/A	-444.34	5395.52	6632.05	5410.52	95.00	2.49	0.07	2.48
	11920.00	89.98	93.40	N/A	-451.66	5489.23	6631.98	5504.48	94.00	2.27	-0.14	-2.27
	12015.00	89.86	94.18	N/A	-457.94	5584.02	6632.11	5599.46	95.00	0.83	-0.13	0.82

	12110.00	89.92	96.13	N/A	-466.48	5678.63	6632.30	5694.37	95.00	2.05	0.06	2.05
	12204.00	89.92	93.15	N/A	-474.08	5772.31	6632.43	5788.30	94.00	3.17	0.00	-3.17
	12299.00	89.83	92.73	N/A	-478.95	5867.18	6632.63	5883.30	95.00	0.45	-0.09	-0.44
	12394.00	89.86	92.97	N/A	-483.67	5962.07	6632.89	5978.30	95.00	0.25	0.03	0.25
	12488.00	89.55	90.32	N/A	-486.37	6056.02	6633.38	6072.28	94.00	2.84	-0.33	-2.82
	12582.00	89.52	88.44	N/A	-485.36	6150.01	6634.14	6166.11	94.00	2.00	-0.03	-2.00
	12677.00	89.92	89.00	N/A	-483.23	6244.98	6634.60	6260.88	95.00	0.72	0.42	0.59
	12772.00	89.95	90.07	N/A	-482.46	6339.98	6634.71	6355.73	95.00	1.13	0.03	1.13
	12866.00	89.89	86.93	N/A	-480.00	6433.93	6634.84	6449.46	94.00	3.34	-0.06	-3.34
	12961.00	90.29	86.63	N/A	-474.67	6528.78	6634.69	6543.95	95.00	0.53	0.42	-0.32
	13056.00	90.11	84.02	N/A	-466.92	6623.46	6634.36	6638.15	95.00	2.75	-0.19	-2.75
	13151.00	90.07	87.49	N/A	-459.89	6718.18	6634.21	6732.44	95.00	3.65	-0.04	3.65
	13245.00	90.35	90.80	N/A	-458.49	6812.16	6633.87	6826.24	94.00	3.53	0.30	3.52
	13340.00	90.04	90.40	N/A	-459.49	6907.15	6633.54	6921.17	95.00	0.53	-0.33	-0.42
	13435.00	90.07	89.68	N/A	-459.55	7002.15	6633.45	7016.07	95.00	0.76	0.03	-0.76
	13529.00	90.07	91.87	N/A	-460.82	7096.14	6633.34	7110.01	94.00	2.33	0.00	2.33
	13624.00	89.89	90.13	N/A	-462.48	7191.12	6633.37	7204.96	95.00	1.84	-0.19	-1.83
	13719.00	89.95	89.98	N/A	-462.57	7286.12	6633.50	7299.86	95.00	0.17	0.06	-0.16
	13814.00	89.86	88.16	N/A	-461.03	7381.10	6633.66	7394.66	95.00	1.92	-0.09	-1.92
	13908.00	89.92	87.44	N/A	-457.42	7475.03	6633.84	7488.32	94.00	0.77	0.06	-0.77
	14003.00	89.80	87.16	N/A	-452.95	7569.92	6634.07	7582.89	95.00	0.32	-0.13	-0.29
	14098.00	89.86	88.07	N/A	-448.99	7664.84	6634.36	7677.51	95.00	0.96	0.06	0.96
	14193.00	89.80	88.87	N/A	-446.46	7759.81	6634.64	7772.25	95.00	0.84	-0.06	0.84
	14287.00	89.83	89.63	N/A	-445.23	7853.80	6634.94	7866.08	94.00	0.81	0.03	0.81
	14382.00	89.95	89.88	N/A	-444.82	7948.80	6635.12	7960.95	95.00	0.29	0.13	0.26
	14477.00	89.95	91.60	N/A	-446.05	8043.78	6635.21	8055.89	95.00	1.81	0.00	1.81
	14571.00	90.32	91.03	N/A	-448.20	8137.76	6634.98	8149.86	94.00	0.72	0.39	-0.61
	14666.00	90.29	92.33	N/A	-450.99	8232.71	6634.48	8244.84	95.00	1.37	-0.03	1.37
	14761.00	90.10	92.59	N/A	-455.07	8327.63	6634.16	8339.84	95.00	0.34	-0.20	0.27
	14856.00	90.23	90.27	N/A	-457.44	8422.59	6633.88	8434.81	95.00	2.45	0.14	-2.44
	14950.00	90.23	88.47	N/A	-456.40	8516.58	6633.50	8528.64	94.00	1.91	0.00	-1.91
	15045.00	90.04	89.74	N/A	-454.92	8611.57	6633.28	8623.45	95.00	1.35	-0.20	1.34
	15140.00	90.29	91.67	N/A	-456.09	8706.55	6633.01	8718.39	95.00	2.05	0.26	2.03
	15235.00	90.23	93.03	N/A	-459.98	8801.47	6632.58	8813.38	95.00	1.43	-0.06	1.43
	15329.00	90.16	89.94	N/A	-462.42	8895.43	6632.26	8907.35	94.00	3.29	-0.07	-3.29
	15424.00	89.83	87.06	N/A	-459.93	8990.38	6632.26	9002.08	95.00	3.05	-0.35	-3.03
	15519.00	89.80	86.99	N/A	-455.00	9085.26	6632.57	9096.61	95.00	0.08	-0.03	-0.07
	15614.00	89.80	84.52	N/A	-447.97	9179.99	6632.90	9190.90	95.00	2.60	0.00	-2.60
	15708.00	89.61	83.88	N/A	-438.47	9273.50	6633.39	9283.86	94.00	0.71	-0.20	-0.68
	15803.00	89.89	84.71	N/A	-429.03	9368.03	6633.80	9377.84	95.00	0.92	0.29	0.87
	15897.00	89.83	82.22	N/A	-418.33	9461.41	6634.03	9470.61	94.00	2.65	-0.06	-2.65
Projection	15931.00	89.83	82.22	N/A	-413.73	9495.10	6634.13	9504.04	34.00	0.00	0.00	0.00