

Witness	
Name	LWD Run Number
Chris Blodgett	1,2,3
Kevin Moseley	1,2,3

Mud Properties Record												
Date / Time		LWD Run No.	Measured Depth (ft.)	Mud Type	Density (ppg)	Viscosity (cp)	pH	Fluid Loss (cc)	Oil / Water	Source	Total Chlorides (mg/L)	K+ (%)
26/Aug/2016	08:30	2	5214.0	Water Based Mud	9.9	11	9.1	7.6	1.0/90.1	Flow Line	1400	0.0
27/Aug/2016	07:15	2	9081.0	Water Based Mud	10.3	11	9.2	7.2	1.0/88.3	Flow Line	1400	0.0
28/Aug/2016	07:00	3	11439.0	Water Based Mud	10.2	11	9.3	5.8	1.0/88.0	Flow Line	1400	0.0

Mnemonics		
Curve	Description	Units
GRAX	Gamma Ray Apparent 0.5 ft Avg	API
ROPA	Rate Of Penetration 3.0 ft Avg	ft/hr
TCDX	Downhole Temperature	deg F
WOBA	Surface Weight on Bit 1.0 ft Avg	klbs

Equipment and Service Data						
LWD Run No.	Tool	Serial Number	Measurement	Bit Offset (ft.)	Max O.D. (in.)	Min I.D. (in.)
1	DIR	12131653	Directional	50.37	8.250	3.250
1	SRIG	12600749	Gamma	46.95	8.250	3.250
2	DIR	12592561	Directional	44.31	6.750	3.250
2	SRIG	12595025	Gamma	40.94	6.750	3.250
3	DIR	11983381	Directional	44.47	6.750	3.250
3	SRIG	13640750	Gamma	41.06	6.750	3.250

Service and Tool Mnemonics		
Mnemonic	Name	Description
DIR	Directional	Wellbore directional survey
SRIG	Inclination and Gamma	Probe based gamma ray and inclination module

Comments	
<p>1.) Depth measurements were obtained from a depth control system not supplied or operated by Baker Hughes. Due to the lack of control by Baker Hughes LWD logging engineers, depth calibrations and measurements could not be independently verified and the unverified depths as supplied to Baker Hughes are being used to present logging data.</p> <p>2.) Baker Hughes LWD runs 2 and 3 utilized 6 3/4 inch NaviGamma services (Gamma Ray and Directional) behind an 8 1/2 inch bit and steerable assembly from 2110 to 15835 ft MD (2101 to 5615 ft TVD).</p> <p>3.) Gamma Ray Apparent (GRAX) is presented 0 to 200 API</p>	

4.) All surveys were corrected by Surcon Survey Management Services.

Remarks

Number	Measured Depth (ft.)	Hole Section (in.)	LWD Run No.	Remark
1	4800	8.500	2	Gamma ray logging operations began at 4800 ft MD (4773 ft TVD).
2	4900	8.500	2	The interval from 4900 to 6800 ft MD (4873 to 5615 ft TVD) has poor gamma ray data density due to troubled decoding caused by the downhole agitator.
3	9804	8.500	3	The interval from 9804 to 9848 ft MD (5604 ft TVD) was logged 11.0 hours after being drilled due to a trip out of the hole for a MWD failure.
4	15825	8.500	3	There is no gamma ray data from 15794 to 15835 ft MD (5590 ft TVD) due to sensor to bit offset at well TD.

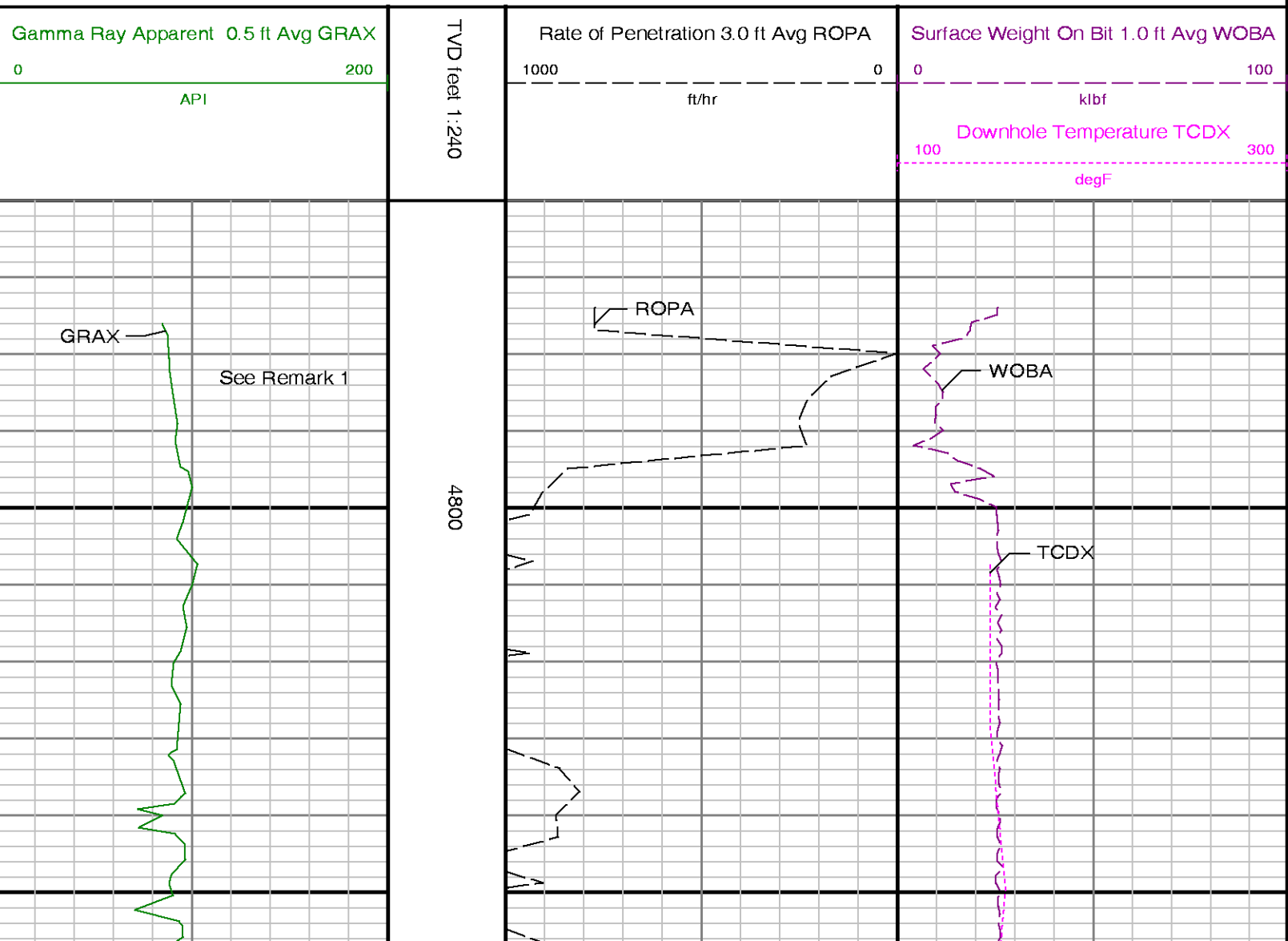


Company : Whiting Oil & Gas Corp.

Well : Razor #250-2412

Interval : 4760.00 - 5640.00 feet

Created : 29/Aug/2016 2:59:00 PM

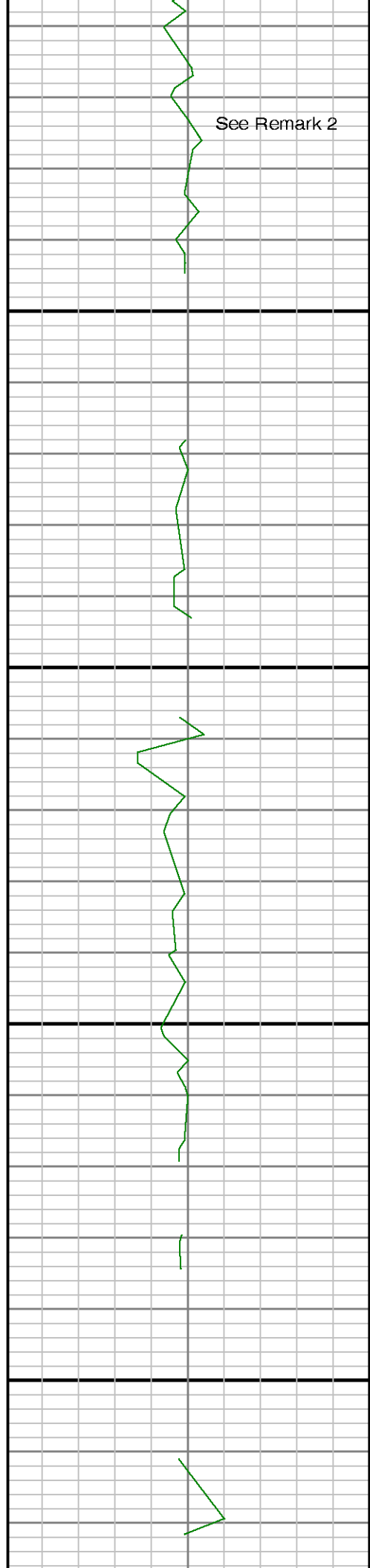




4900

5000

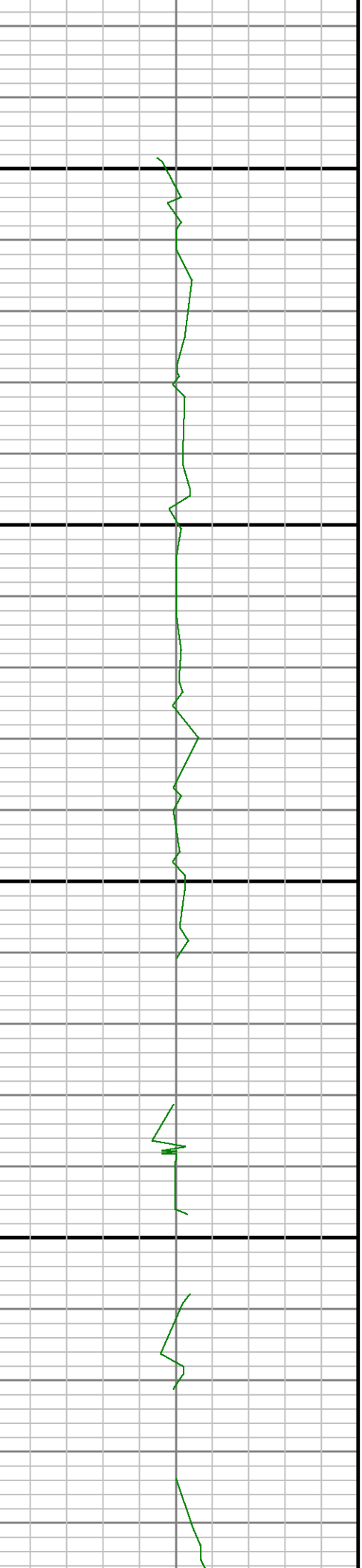
See Remark 2

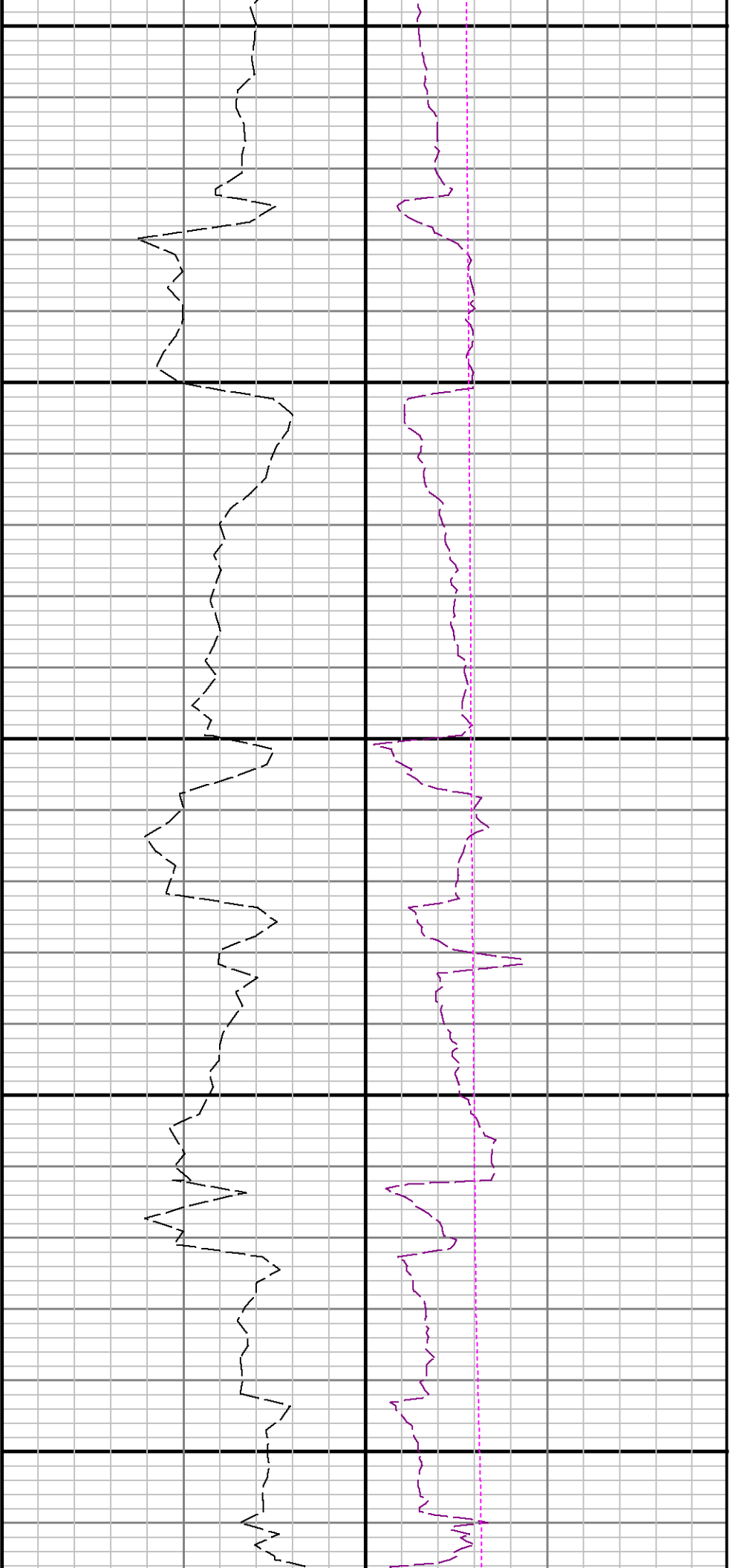




5100

5200

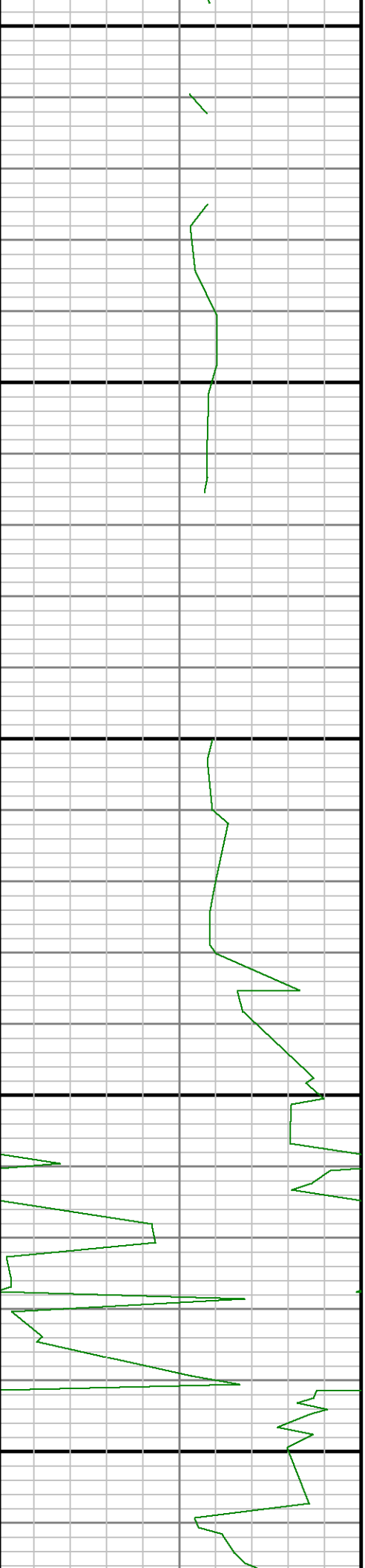


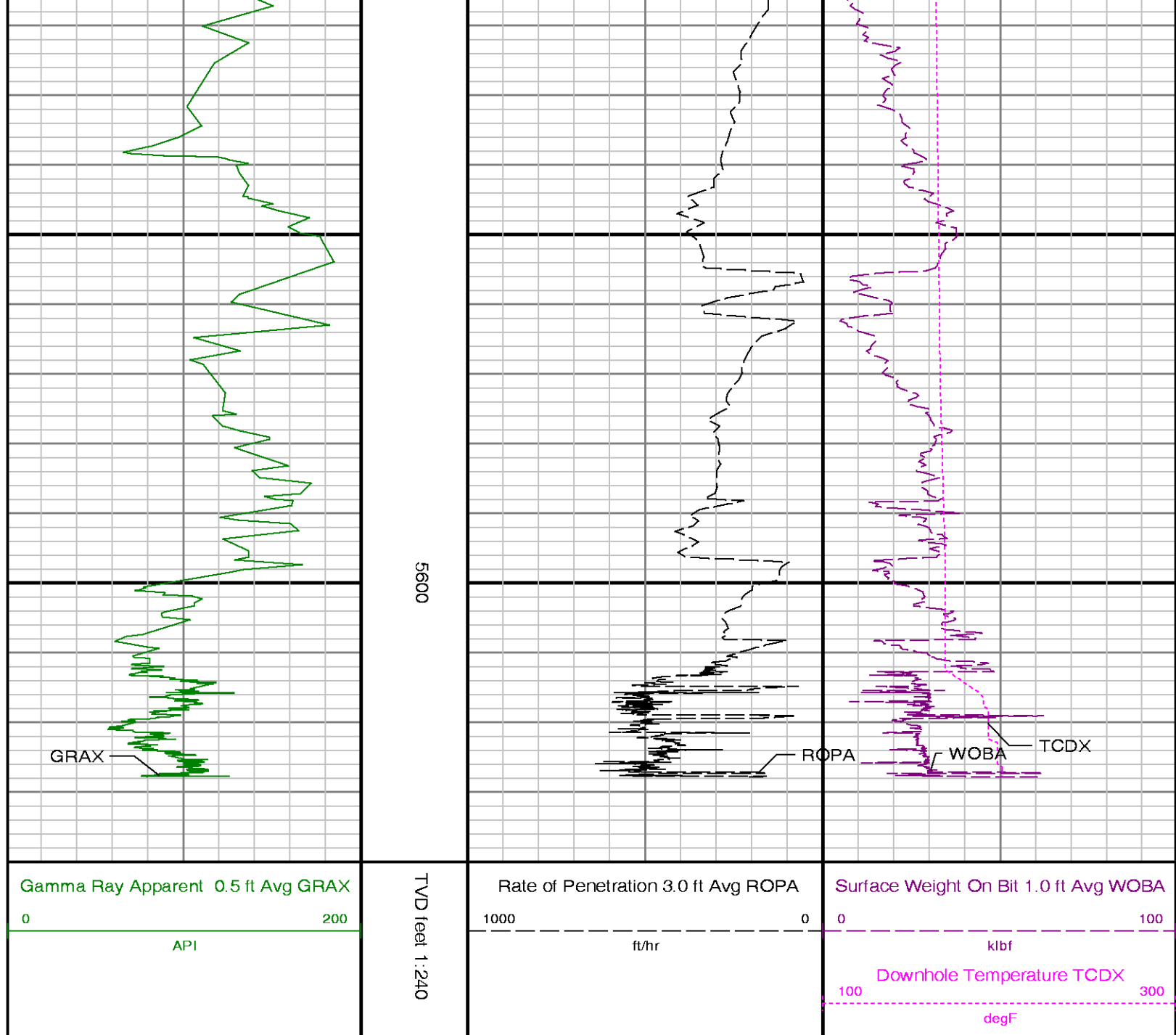


5300

5400

5500





ADVANTAGE Final Survey Listing

Operator : **Whiting Oil & Gas Corp.**
Well : **Razor #25O-2412**
Wellbore : **Razor #25O-2412 Orig Hole**

Field : **Redtail**
Rig : **Unit 406**

API No : **05-123-42650-0**
Job : **8038300**

Well Origin

Latitude	40.8035 deg	Longitude	-103.8101 deg
North Reference	True	Drill Depth Zero	NULL
Vertical Datum is	Ground Level	Vertical Datum to DDZ	4718.00 ft
Vertical Section North	0.00 ft	Vertical Section East	0.00 ft
Vertical Section Azimuth	1.6700 deg	Vertical Section Depth	0.00ft
Grid Convergence	0.0000 deg	Magnetic Declination	7.1500 deg
Total Correction	7.1500 deg	TVD Calculation Method	Minimal Curvature
D-Row Calculation	Magcorr1	Local Magnetic Field	52698 nT
Local Magnetic Dip Angle	67.1600 deg	Local Gravity Field	9.801 m/s^2

Location Data												
Tie	MD ft	Incl deg	Azim deg	North ft	East ft	TVD ft	VS ft	Incr VS ft	Crs Len ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft
U	21.00	0.0000	142.1340	0.00	0.00	21.00	0.00	0.00				
	146.00	0.6500	103.8900	-0.17	0.69	146.00	-0.15	0.71	125.00	0.52	0.52	-30.60
	237.00	0.5700	113.4200	-0.47	1.60	236.99	-0.43	1.67	91.00	0.14	-0.09	10.47
	327.00	2.6100	137.7400	-2.17	3.39	326.95	-2.07	4.14	90.00	2.34	2.27	27.02
	418.00	4.7400	140.5500	-6.61	7.18	417.76	-6.39	9.97	91.00	2.35	2.34	3.09
	510.00	7.3000	145.3500	-14.35	12.92	509.25	-13.97	19.61	92.00	2.83	2.78	5.22
	601.00	7.4500	146.4200	-24.02	19.47	599.49	-23.44	31.29	91.00	0.22	0.16	1.18
	693.00	7.2400	145.7300	-33.78	26.03	690.74	-33.01	43.05	92.00	0.25	-0.23	-0.75
	784.00	6.6300	145.5400	-42.85	32.23	781.07	-41.89	54.04	91.00	0.67	-0.67	-0.21
	876.00	5.9700	146.4800	-51.22	37.88	872.52	-50.09	64.13	92.00	0.73	-0.72	1.02
	968.00	5.4700	144.1800	-58.76	43.09	964.06	-57.48	73.30	92.00	0.60	-0.54	-2.50
	1059.00	5.3800	141.2100	-65.61	48.30	1054.65	-64.17	81.90	91.00	0.32	-0.10	-3.26
	1150.00	5.2300	139.5600	-72.09	53.66	1145.26	-70.49	90.31	91.00	0.24	-0.16	-1.81
	1241.00	5.0400	144.3800	-78.49	58.68	1235.90	-76.75	98.45	91.00	0.52	-0.21	5.30
	1333.00	5.2100	142.8600	-85.11	63.55	1327.53	-83.22	106.67	92.00	0.24	0.18	-1.65
	1424.00	5.5100	142.1500	-91.85	68.73	1418.13	-89.81	115.17	91.00	0.34	0.33	-0.78
	1516.00	5.0300	139.4900	-98.41	74.06	1509.74	-96.21	123.62	92.00	0.59	-0.52	-2.89
	1608.00	4.4800	134.5500	-103.99	79.24	1601.42	-101.64	131.24	92.00	0.74	-0.60	-5.37
	1700.00	3.9400	128.7400	-108.49	84.27	1693.18	-105.99	137.98	92.00	0.75	-0.59	-6.32
	1791.00	5.1700	131.1200	-113.15	89.79	1783.89	-110.48	145.21	91.00	1.37	1.35	2.62
	1883.00	6.6800	134.9500	-119.65	96.70	1875.39	-116.78	154.70	92.00	1.70	1.64	4.16
	1974.00	6.7000	139.3800	-127.42	103.91	1965.77	-124.34	165.29	91.00	0.57	0.02	4.87
	2057.00	6.3000	139.6000	-134.56	110.01	2048.24	-131.30	174.69	83.00	0.48	-0.48	0.27
	2119.00	6.0300	139.3700	-139.63	114.33	2109.88	-136.23	181.35	62.00	0.44	-0.44	-0.37
	2213.00	5.9100	140.5200	-147.11	120.63	2203.37	-143.53	191.12	94.00	0.18	-0.13	1.22
	2307.00	5.6000	142.4000	-154.48	126.50	2296.90	-150.73	200.55	94.00	0.39	-0.33	2.00
	2401.00	5.4500	140.3800	-161.55	132.15	2390.46	-157.63	209.60	94.00	0.26	-0.16	-2.15
	2495.00	7.7900	155.5000	-170.79	137.64	2483.84	-166.70	220.34	94.00	3.08	2.49	16.09
	2590.00	7.5300	155.0900	-182.29	142.93	2577.99	-178.05	233.01	95.00	0.28	-0.27	-0.43
	2683.00	7.5000	154.2900	-193.29	148.13	2670.19	-188.89	245.17	93.00	0.12	-0.03	-0.86
	2777.00	7.2800	153.5800	-204.15	153.44	2763.41	-199.59	257.26	94.00	0.25	-0.23	-0.76
	2872.00	6.8800	152.0400	-214.56	158.79	2857.68	-209.85	268.97	95.00	0.47	-0.42	-1.62
	2966.00	6.4900	149.1500	-224.10	164.15	2951.05	-219.22	279.91	94.00	0.55	-0.41	-3.07
	3060.00	6.2300	147.7800	-232.97	169.59	3044.47	-227.93	290.32	94.00	0.32	-0.28	-1.46
	3154.00	6.1000	146.7100	-241.46	175.05	3137.92	-236.26	300.41	94.00	0.18	-0.14	-1.14
	3249.00	8.0400	150.1100	-251.44	181.14	3232.20	-246.06	312.10	95.00	2.09	2.04	3.58
	3343.00	7.8500	147.6400	-262.57	187.85	3325.29	-256.98	325.09	94.00	0.42	-0.20	-2.63
	3437.00	8.7100	138.2800	-273.30	196.02	3418.32	-267.47	338.58	94.00	1.70	0.91	-9.96
	3532.00	8.7400	138.9100	-284.11	205.55	3512.22	-278.00	352.99	95.00	0.11	0.03	0.66
	3626.00	8.1200	140.4600	-294.61	214.47	3605.20	-288.24	366.77	94.00	0.70	-0.66	1.65
	3721.00	7.4600	142.6000	-304.69	222.49	3699.33	-298.07	379.65	95.00	0.76	-0.69	2.25
	3815.00	6.8000	143.8000	-314.02	229.48	3792.60	-307.20	391.31	94.00	0.72	-0.70	1.28
	3909.00	6.5700	144.5400	-322.89	235.89	3885.96	-315.88	402.25	94.00	0.26	-0.24	0.79
	4004.00	7.3600	131.0000	-331.31	243.63	3980.26	-324.07	413.70	95.00	1.91	0.83	-14.25
	4098.00	6.5200	131.0900	-338.77	252.20	4073.57	-331.28	425.05	94.00	0.89	-0.89	0.10
	4192.00	5.4900	127.5200	-345.02	259.79	4167.06	-337.30	434.88	94.00	1.17	-1.10	-3.80
	4286.00	4.1500	116.7000	-349.29	266.39	4260.72	-341.37	442.75	94.00	1.72	-1.43	-11.51
	4380.00	5.2200	125.7600	-353.31	272.90	4354.41	-345.21	450.40	94.00	1.38	1.14	9.64
	4474.00	3.3600	109.6000	-356.74	278.97	4448.15	-348.45	457.87	94.00	2.34	-1.98	-17.19
	4568.00	2.9600	112.0300	-358.57	283.81	4542.00	-350.15	462.55	94.00	0.45	-0.43	2.59
Tie	MD ft	Incl deg	Azim deg	North ft	East ft	TVD ft	VS ft	Incr VS ft	Crs Len ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft
	4663.00	2.3100	108.3800	-360.09	287.90	4636.90	-351.55	466.91	95.00	0.71	-0.68	-3.84
	4757.00	1.7000	102.9100	-361.00	291.06	4730.84	-352.37	470.20	94.00	0.68	-0.65	-5.82
	4852.00	0.1300	12.2800	-361.21	292.46	4825.83	-352.54	471.61	95.00	1.80	-1.65	-95.40
	4875.00	0.1300	97.8500	-361.19	292.49	4848.83	-352.51	471.65	23.00	0.77	0.00	372.04
	4969.00	9.2300	11.7000	-353.81	294.13	4942.42	-345.09	479.21	94.00	9.81	9.68	-91.65
	5064.00	14.4100	8.3200	-334.64	297.38	5035.38	-325.83	498.65	95.00	5.50	5.45	-3.56
	5158.00	21.1400	9.4500	-306.31	301.87	5124.84	-297.38	527.33	94.00	7.17	7.16	1.20
	5252.00	20.3300	8.9200	-266.28	307.22	5209.46	-256.22	568.23	94.00	9.62	9.67	1.45

	5346.00	37.0700	3.2300	-214.29	312.92	5287.68	-205.08	620.05	94.00	7.82	7.28	-5.17
	5452.00	43.7100	0.8100	-145.69	315.25	5368.38	-136.45	688.69	106.00	6.44	6.26	-2.28
	5546.00	49.6100	2.7800	-77.40	317.44	5432.87	-68.12	757.02	94.00	6.46	6.28	2.10
	5640.00	55.1800	359.3000	-2.99	318.71	5490.21	6.30	831.44	94.00	6.61	5.93	-3.70
	5734.00	63.2500	354.4600	77.53	314.18	5538.31	86.66	912.09	94.00	9.65	8.59	-5.15
	5828.00	71.5800	355.3900	163.91	306.53	5574.38	172.77	998.80	94.00	8.91	8.86	0.99
	5922.00	77.1200	359.2200	254.27	302.31	5599.73	262.97	1089.26	94.00	7.08	5.89	4.07
	6017.00	87.9700	0.8600	348.32	302.40	5612.04	356.99	1183.31	95.00	11.55	11.42	1.73
	6111.00	90.6500	0.4800	442.30	303.50	5613.17	450.96	1277.30	94.00	2.88	2.85	-0.40
	6205.00	91.8800	0.7700	536.27	304.52	5611.10	544.92	1371.27	94.00	1.34	1.31	0.31
	6300.00	90.0900	0.3700	631.25	305.47	5609.47	639.88	1466.26	95.00	1.93	-1.88	-0.42
	6394.00	91.9400	358.2400	725.22	304.33	5607.80	733.78	1560.23	94.00	3.00	1.97	-2.27
	6488.00	89.7500	357.0900	819.12	300.50	5606.41	827.53	1654.21	94.00	2.63	-2.33	-1.22
	6582.00	87.7500	355.6300	912.90	294.53	5608.46	921.10	1748.18	94.00	2.63	-2.13	-1.55
	6676.00	86.9400	358.0300	1006.65	289.34	5612.82	1014.66	1842.08	94.00	2.69	-0.86	2.55
	6770.00	89.6300	0.6900	1100.59	288.29	5615.63	1108.52	1936.02	94.00	4.02	2.86	2.83
	6864.00	90.8900	0.7900	1194.57	289.50	5615.21	1202.50	2030.01	94.00	1.34	1.34	0.11
	6958.00	90.4300	0.6000	1288.56	290.64	5614.12	1296.48	2124.01	94.00	0.53	-0.49	-0.20
	7052.00	90.3100	359.3400	1382.56	290.60	5613.52	1390.44	2218.00	94.00	1.35	-0.13	-1.34
	7146.00	90.9800	359.9800	1476.55	290.04	5612.46	1484.37	2312.00	94.00	0.99	0.71	0.68
	7239.00	91.4200	357.8200	1569.51	288.25	5610.51	1577.24	2404.97	93.00	2.37	0.47	-2.32
	7333.00	89.1700	358.7300	1663.45	285.42	5610.03	1671.07	2498.96	94.00	2.58	-2.39	0.97
	7427.00	90.4600	359.5600	1757.44	284.02	5610.33	1764.97	2592.96	94.00	1.63	1.37	0.88
	7521.00	88.5500	359.8900	1851.43	283.57	5611.14	1858.91	2686.95	94.00	2.06	-2.03	0.35
	7616.00	88.8000	359.6400	1946.41	283.18	5613.34	1953.83	2781.93	95.00	0.37	0.26	-0.26
	7710.00	89.8200	359.1000	2040.39	282.15	5614.47	2047.75	2875.92	94.00	1.23	1.09	-0.57
	7804.00	88.5500	359.5500	2134.37	281.04	5615.81	2141.66	2969.91	94.00	1.43	-1.35	0.48
	7898.00	88.9500	359.5300	2228.35	280.29	5617.86	2235.57	3063.88	94.00	0.43	0.43	-0.02
	7993.00	88.3400	1.8900	2323.31	281.46	5620.10	2330.52	3158.85	95.00	2.57	-0.64	2.48
	8087.00	88.4600	1.8000	2417.22	284.49	5622.73	2424.49	3252.81	94.00	0.16	0.13	-0.10
	8181.00	88.9200	1.6600	2511.15	287.32	5624.88	2518.46	3346.79	94.00	0.51	0.49	-0.15
	8275.00	89.1400	0.3200	2605.12	288.95	5626.47	2612.44	3440.77	94.00	1.44	0.23	-1.43
	8370.00	89.5700	1.0300	2700.11	290.07	5627.54	2707.42	3535.77	95.00	0.87	0.45	0.75
	8464.00	90.3400	1.7800	2794.08	292.37	5627.61	2801.41	3629.76	94.00	1.14	0.82	0.80
	8558.00	90.1500	0.8700	2888.05	294.55	5627.21	2895.41	3723.76	94.00	0.99	-0.20	-0.97
	8653.00	91.8800	2.2400	2983.00	297.12	5625.53	2990.39	3818.74	95.00	2.32	1.82	1.44
	8747.00	92.6500	1.8700	3076.86	300.49	5621.81	3084.31	3912.67	94.00	0.91	0.82	-0.39
	8841.00	91.6600	1.6000	3170.75	303.33	5618.28	3178.25	4006.60	94.00	1.09	-1.05	-0.29
	8935.00	92.4300	1.3200	3264.66	305.73	5614.92	3272.18	4100.54	94.00	0.87	0.82	-0.30
	9029.00	92.7700	359.9900	3358.56	306.80	5610.66	3366.07	4194.44	94.00	1.46	0.36	-1.41
	9123.00	90.3100	358.7600	3452.51	305.78	5608.13	3459.95	4288.40	94.00	2.93	-2.62	-1.31
	9217.00	91.1100	358.9200	3546.48	303.87	5606.97	3553.83	4382.39	94.00	0.87	0.85	0.17
Tie	MD ft	Incl deg	Azim deg	North ft	East ft	TVD ft	VS ft	Incr VS ft	Crs Len ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft
	9311.00	92.2200	358.8900	3640.42	302.08	5604.24	3647.68	4476.35	94.00	1.18	1.18	-0.03
	9405.00	90.0600	356.5300	3734.32	298.32	5602.37	3741.42	4570.32	94.00	3.40	-2.30	-2.51
	9499.00	88.9200	358.6700	3828.22	294.39	5603.20	3835.18	4664.31	94.00	2.58	-1.21	2.28
	9593.00	89.5700	358.3900	3922.18	291.97	5604.44	3929.03	4758.30	94.00	0.75	0.69	-0.30
	9688.00	90.3400	357.6300	4017.12	288.68	5604.52	4023.83	4853.30	95.00	1.14	0.81	-0.80
	9782.00	90.0300	356.1500	4110.98	283.58	5604.21	4117.50	4947.29	94.00	1.61	-0.33	-1.57
	9877.00	89.6000	356.9500	4205.81	277.86	5604.52	4212.12	5042.29	95.00	0.96	-0.45	0.84
	9972.00	89.1100	359.1600	4300.74	274.64	5605.59	4306.92	5137.28	95.00	2.38	-0.52	2.33
	10066.00	89.0100	358.9300	4394.72	273.07	5607.13	4400.81	5231.27	94.00	0.27	-0.11	-0.24
	10160.00	89.5100	2.6200	4488.68	274.34	5608.35	4494.77	5325.24	94.00	3.96	0.53	3.93
	10254.00	89.6600	2.6200	4582.58	278.64	5609.03	4588.76	5419.24	94.00	0.16	0.16	0.00
	10349.00	90.3400	3.3500	4677.45	283.58	5609.03	4683.73	5514.24	95.00	1.05	0.72	0.77
	10443.00	90.8000	2.9500	4771.31	288.75	5608.09	4777.69	5608.23	94.00	0.65	0.49	-0.43
	10537.00	91.4800	3.3400	4865.14	293.91	5606.22	4871.64	5702.21	94.00	0.83	0.72	0.41
	10630.00	90.5200	3.4500	4957.97	299.41	5604.60	4964.59	5795.20	93.00	1.04	-1.03	0.12
	10724.00	90.8000	4.2100	5051.75	305.69	5603.52	5058.51	5889.19	94.00	0.86	0.30	0.81
	10818.00	89.3800	0.9800	5145.64	309.95	5603.37	5152.48	5983.18	94.00	3.75	-1.51	-3.44
	10913.00	89.6600	359.7600	5240.63	310.56	5604.16	5247.46	6078.17	95.00	1.32	0.29	-1.28
	11007.00	89.3200	359.8200	5334.63	310.21	5605.00	5341.40	6172.17	94.00	0.37	-0.36	0.06

11099.00	89.2600	359.0300	5426.61	309.29	5606.14	5433.32	6264.16	92.00	0.86	-0.07	-0.86	
11190.00	89.3200	358.1900	5517.58	307.08	5607.27	5524.18	6355.15	91.00	0.93	0.07	-0.92	
11280.00	88.9800	357.7800	5607.51	303.92	5608.60	5613.99	6445.14	90.00	0.59	-0.38	-0.46	
11371.00	88.4900	358.9600	5698.45	301.33	5610.61	5704.81	6536.12	91.00	1.40	-0.54	1.30	
11463.00	89.3800	359.2300	5790.42	299.88	5612.32	5796.70	6628.10	92.00	1.01	0.97	0.29	
11554.00	90.3400	359.4100	5881.42	298.80	5612.55	5887.63	6719.10	91.00	1.07	1.05	0.20	
11646.00	91.0200	359.8300	5973.41	298.19	5611.45	5979.56	6811.09	92.00	0.87	0.74	0.46	
11737.00	90.8000	358.8500	6064.39	297.14	5610.01	6070.47	6902.08	91.00	1.10	-0.24	-1.08	
11829.00	92.3400	0.0300	6156.34	296.24	5607.49	6162.36	6994.04	92.00	2.11	1.67	1.28	
11921.00	93.3000	359.7200	6248.23	296.04	5602.96	6254.21	7085.93	92.00	1.10	1.04	-0.34	
12012.00	92.1600	359.7200	6339.13	295.60	5598.63	6345.05	7176.82	91.00	1.25	-1.25	0.00	
12103.00	89.4800	359.7000	6430.11	295.14	5597.33	6435.98	7267.81	91.00	2.95	-2.95	-0.02	
12194.00	89.0800	359.2400	6521.10	294.29	5598.47	6526.90	7358.80	91.00	0.67	-0.44	-0.51	
12286.00	88.7700	358.8500	6613.07	292.76	5600.19	6618.79	7450.78	92.00	0.54	-0.34	-0.42	
12377.00	88.4300	358.2700	6704.01	290.48	5602.42	6709.63	7541.75	91.00	0.74	-0.37	-0.64	
12469.00	89.6300	358.8000	6795.97	288.12	5603.98	6801.48	7633.74	92.00	1.43	1.30	0.58	
12561.00	89.9700	0.0300	6887.96	287.18	5604.30	6893.40	7725.74	92.00	1.39	0.37	1.34	
12653.00	90.4900	0.6400	6979.95	287.72	5603.93	6985.38	7817.73	92.00	0.87	0.57	0.66	
12744.00	90.8900	359.9800	7070.95	288.22	5602.83	7076.34	7908.73	91.00	0.85	0.44	-0.73	
12836.00	90.9500	359.2700	7162.93	287.61	5601.35	7168.27	8000.71	92.00	0.77	0.07	-0.77	
12927.00	90.8900	358.9700	7253.91	286.22	5599.89	7259.17	8091.70	91.00	0.34	-0.07	-0.33	
13018.00	90.3400	358.3000	7344.88	284.05	5598.92	7350.04	8182.70	91.00	0.95	-0.60	-0.74	
13110.00	90.4900	358.1800	7436.83	281.22	5598.25	7441.87	8274.69	92.00	0.21	0.16	-0.13	
13200.00	89.5400	359.5600	7526.81	279.45	5598.23	7531.76	8364.69	90.00	1.86	-1.06	1.53	
13291.00	90.3400	1.2400	7617.80	280.08	5598.32	7622.73	8455.69	91.00	2.04	0.88	1.85	
13383.00	89.9400	1.0000	7709.79	281.88	5598.10	7714.73	8547.69	92.00	0.51	-0.43	-0.26	
13475.00	89.6600	1.5700	7801.76	283.94	5598.42	7806.72	8639.69	92.00	0.69	-0.30	0.62	
13658.00	90.0600	0.9600	7984.72	287.98	5598.87	7989.72	8822.68	183.00	0.40	0.22	-0.33	
13749.00	91.4200	0.5400	8075.70	289.18	5597.69	8080.70	8913.67	91.00	1.56	1.49	-0.46	
13843.00	91.2000	359.2700	8169.67	289.02	5595.54	8174.62	9007.65	94.00	1.37	-0.23	-1.35	
13937.00	90.3700	359.0900	8263.65	287.67	5594.25	8268.53	9101.64	94.00	0.90	-0.88	-0.19	
Tie	MD ft	Incl deg	Azim deg	North ft	East ft	TVD ft	VS ft	Incr VS ft	Crs Len ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft
14031.00	89.4500	357.7200	8357.61	285.06	5594.40	8362.37	9195.63	94.00	1.76	-0.98	-1.46	
14126.00	89.1400	359.6900	8452.58	282.91	5595.57	8457.23	9290.62	95.00	2.10	-0.33	2.07	
14220.00	89.1100	359.0500	8546.56	281.88	5597.01	8551.14	9384.61	94.00	0.68	-0.03	-0.68	
14314.00	90.5800	359.0600	8640.54	280.33	5597.26	8645.04	9478.61	94.00	1.56	1.56	0.01	
14409.00	91.1400	358.6600	8735.51	278.44	5595.83	8739.92	9573.60	95.00	0.72	0.59	-0.42	
14503.00	89.5700	1.0400	8829.50	278.19	5595.25	8833.86	9667.58	94.00	3.03	-1.67	2.53	
14597.00	88.8600	359.8900	8923.49	278.95	5596.54	8927.83	9761.57	94.00	1.44	-0.76	-1.22	
14692.00	91.1100	1.9300	9018.46	280.46	5596.56	9022.81	9856.56	95.00	3.20	2.37	2.15	
14786.00	91.1400	1.3700	9112.41	283.17	5594.72	9116.79	9950.54	94.00	0.60	0.03	-0.60	
14880.00	90.7700	1.1800	9206.37	285.26	5593.15	9210.77	10044.53	94.00	0.44	-0.39	-0.20	
14975.00	90.8000	0.1800	9301.35	286.39	5591.85	9305.75	10139.52	95.00	1.05	0.03	-1.05	
15070.00	89.2900	1.0800	9396.34	287.43	5591.78	9400.73	10234.52	95.00	1.85	-1.59	0.95	
15163.00	89.4500	359.4300	9489.33	287.85	5592.80	9493.69	10327.51	93.00	1.78	0.17	-1.77	
15257.00	88.6700	358.0800	9583.30	285.80	5594.34	9587.55	10421.49	94.00	1.66	-0.83	-1.44	
15352.00	88.4900	2.1200	9678.25	285.97	5596.70	9682.47	10516.44	95.00	4.26	-0.19	4.25	
15446.00	88.2400	1.9500	9772.15	289.31	5599.38	9776.43	10610.41	94.00	0.32	-0.27	-0.18	
15540.00	90.2200	2.5500	9866.06	293.00	5600.64	9870.41	10704.39	94.00	2.20	2.11	0.64	
15634.00	92.4300	1.7700	9959.96	296.54	5598.47	9964.38	10798.36	94.00	2.49	2.35	-0.83	
15788.00	92.5600	1.3100	10113.76	300.67	5591.76	10118.23	10952.21	154.00	0.31	0.08	-0.30	
Projection to TD:												
15835.00	92.5600	1.3100	10160.70	301.75	5589.66	10165.18	10999.17	47.00	0.00	0.00	-0.00	