



Job Number: Gorby 5 Svy
Company: Jay Bee Oil
Lease/Well: Gorby 5
Location: Northern
Rig Name:
State/County: West Virginia/ Tyler
Country: USA
API Number:



Elevation (To MSL): 1275.96 ft
RKB: 16.00 ft
Projection System: US State Plane 1927 (Exact solution)
Projection Group: West Virginia North 4701
Projection Datum: CLARKE 1866
Magnetic Declination: -8.51
Grid Convergence: -0.82762 W
Date: Monday, November 03, 2014



Vertical Section (500 Ft/Div) VSP: 319.85°



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Elev. GL: 1275.96 ft **RKB:** 16.00 ft
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Calculated by HawkEye Software
 Minimum Curvature Method
 Vertical Section Plane 319.85°
 Northing (US ft): 355009.94 Easting (US ft): 1633631.06
 Latitude: 39°28'2.8055" N Longitude: -80°47'51.9288" W
 Direction Reference: Grid North



#	Measured Depth (Ft)	INC Deg	AZM Deg	CL (Ft)	TVD (Ft)	VS (Ft)	NS (Ft)	EW (Ft)	Northing (US ft)	Easting (US ft)	DLS */100 Ft	UD/NS From-Plan (Ft)	LR/EW From-Plan (Ft)
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	355009.94	1633631.06	0.00	-	-
2	100.00	0.24	242.86	100.00	100.00	0.05	-0.10	-0.19	355009.84	1633630.87	0.24	-	-
3	200.00	1.67	262.54	100.00	199.98	0.88	-0.38	-1.82	355009.56	1633629.24	1.45	-	-
4	300.00	1.22	197.74	100.00	299.96	1.10	-1.58	-3.59	355008.36	1633627.47	1.59	-	-
5	400.00	0.76	161.13	100.00	399.94	-0.08	-3.23	-3.70	355006.71	1633627.36	0.76	-	-
6	500.00	0.96	144.80	100.00	499.93	-1.53	-4.54	-3.00	355005.40	1633628.06	0.31	-	-
7	600.00	1.44	148.39	100.00	599.91	-3.61	-6.29	-1.86	355003.65	1633629.20	0.49	-	-
8	700.00	2.29	167.37	100.00	699.86	-6.63	-9.31	-0.76	355000.63	1633630.30	1.04	-	-
9	800.00	2.99	192.89	100.00	799.75	-9.97	-13.80	-0.91	354996.14	1633630.15	1.35	-	-
10	900.00	3.52	194.76	100.00	899.59	-13.30	-19.31	-2.27	354990.63	1633628.79	0.54	-	-
11	1000.00	3.79	194.19	100.00	999.39	-16.99	-25.49	-3.86	354984.45	1633627.20	0.27	-	-
12	1100.00	4.39	189.88	100.00	1099.13	-21.38	-32.46	-5.33	354977.48	1633625.73	0.67	-	-
13	1200.00	4.91	189.46	100.00	1198.80	-26.61	-40.45	-6.69	354969.49	1633624.37	0.52	-	-
14	1300.00	5.49	190.26	100.00	1298.39	-32.43	-49.38	-8.25	354960.56	1633622.81	0.58	-	-
15	1400.00	5.83	192.51	100.00	1397.90	-38.56	-59.05	-10.20	354950.89	1633620.86	0.41	-	-
16	1500.00	6.17	191.54	100.00	1497.36	-44.97	-69.27	-12.37	354940.67	1633618.69	0.35	-	-
17	1600.00	6.21	193.70	100.00	1596.77	-51.49	-79.79	-14.73	354930.15	1633616.33	0.24	-	-
18	1700.00	6.09	192.69	100.00	1696.20	-57.89	-90.22	-17.18	354919.72	1633613.88	0.16	-	-
19	1800.00	6.01	191.75	100.00	1795.64	-64.32	-100.52	-19.41	354909.42	1633611.65	0.13	-	-
20	1900.00	6.12	193.72	100.00	1895.08	-70.69	-110.83	-21.74	354899.11	1633609.32	0.24	-	-
21	2000.00	5.80	193.75	100.00	1994.54	-76.81	-120.91	-24.20	354889.03	1633606.86	0.32	-	-
22	2100.00	5.71	191.97	100.00	2094.04	-82.85	-130.69	-26.44	354879.25	1633604.62	0.20	-	-
23	2200.00	5.79	194.62	100.00	2193.53	-88.81	-140.43	-28.74	354869.51	1633602.32	0.28	-	-
24	2300.00	5.60	196.25	100.00	2293.04	-94.42	-150.00	-31.38	354859.94	1633599.68	0.25	-	-
25	2400.00	5.42	200.39	100.00	2392.58	-99.44	-159.11	-34.39	354850.83	1633596.67	0.44	-	-
26	2500.00	4.76	204.26	100.00	2492.18	-103.56	-167.32	-37.74	354842.62	1633593.32	0.74	-	-
27	2600.00	3.35	200.54	100.00	2591.93	-106.78	-173.84	-40.47	354836.10	1633590.59	1.43	-	-
28	2700.00	2.12	203.80	100.00	2691.82	-109.02	-178.27	-42.24	354831.67	1633588.82	1.24	-	-
29	2800.00	1.21	201.59	100.00	2791.77	-110.34	-180.94	-43.38	354829.00	1633587.68	0.91	-	-
30	2900.00	0.72	220.58	100.00	2891.76	-110.94	-182.40	-44.17	354827.54	1633586.89	0.58	-	-

#	Measured Depth (Ft)	INC Deg	AZM Deg	CL (Ft)	TVD (Ft)	VS (Ft)	NS (Ft)	EW (Ft)	Northing (US ft)	Easting (US ft)	DLS *100 Ft	UD/NS From-Plan (Ft)	LR/EW From-Plan (Ft)
31	3000.00	0.09	220.59	100.00	2991.75	-111.05	-182.94	-44.63	354827.00	1633586.43	0.63	-	-
32	3100.00	0.73	265.89	100.00	3091.75	-110.69	-183.04	-45.32	354826.90	1633585.74	0.67	-	-
33	3200.00	0.71	261.66	100.00	3191.74	-109.99	-183.18	-46.57	354826.76	1633584.49	0.06	-	-
34	3300.00	0.56	276.18	100.00	3291.74	-109.31	-183.22	-47.67	354826.72	1633583.39	0.22	-	-
35	3400.00	0.38	288.30	100.00	3391.73	-108.67	-183.06	-48.47	354826.88	1633582.59	0.20	-	-
36	3500.00	0.52	273.68	100.00	3491.73	-108.07	-182.93	-49.24	354827.01	1633581.82	0.18	-	-
37	3600.00	0.38	292.20	100.00	3591.73	-107.47	-182.77	-50.00	354827.17	1633581.06	0.20	-	-
38	3700.00	0.25	289.21	100.00	3691.73	-106.98	-182.57	-50.51	354827.37	1633580.55	0.13	-	-
39	3800.00	0.45	281.48	100.00	3791.72	-106.49	-182.42	-51.10	354827.52	1633579.96	0.21	-	-
40	3900.00	0.30	293.20	100.00	3891.72	-105.95	-182.24	-51.73	354827.70	1633579.33	0.17	-	-
41	4000.00	0.21	302.58	100.00	3991.72	-105.54	-182.04	-52.12	354827.90	1633578.94	0.10	-	-
42	4100.00	0.15	291.85	100.00	4091.72	-105.25	-181.89	-52.40	354828.05	1633578.66	0.07	-	-
43	4200.00	0.43	287.47	100.00	4191.72	-104.81	-181.73	-52.88	354828.21	1633578.18	0.28	-	-
44	4300.00	1.16	296.46	100.00	4291.71	-103.57	-181.17	-54.14	354828.77	1633576.92	0.74	-	-
45	4400.00	1.38	303.15	100.00	4391.69	-101.49	-180.06	-56.05	354829.88	1633575.01	0.26	-	-
46	4500.00	0.75	330.86	100.00	4491.67	-99.69	-178.83	-57.38	354831.11	1633573.68	0.80	-	-
47	4600.00	0.72	323.40	100.00	4591.66	-98.42	-177.75	-58.07	354832.19	1633572.99	0.10	-	-
48	4700.00	0.66	348.85	100.00	4691.65	-97.29	-176.68	-58.56	354833.26	1633572.50	0.31	-	-
49	4800.00	0.75	353.88	100.00	4791.65	-96.24	-175.47	-58.74	354834.47	1633572.32	0.11	-	-
50	4900.00	0.49	357.78	100.00	4891.64	-95.36	-174.39	-58.83	354835.55	1633572.23	0.26	-	-
51	5000.00	0.75	1.10	100.00	4991.63	-94.54	-173.31	-58.83	354836.63	1633572.23	0.26	-	-
52	5100.00	0.72	359.80	100.00	5091.62	-93.56	-172.02	-58.82	354837.92	1633572.24	0.03	-	-
53	5200.00	1.16	337.03	100.00	5191.61	-92.11	-170.46	-59.22	354839.48	1633571.84	0.57	-	-
54	5300.00	1.26	338.88	100.00	5291.59	-90.11	-168.51	-60.01	354841.43	1633571.05	0.11	-	-
55	5400.00	1.09	348.70	100.00	5391.57	-88.23	-166.55	-60.59	354843.39	1633570.47	0.26	-	-
56	5500.00	1.17	17.13	100.00	5491.55	-86.85	-164.64	-60.48	354845.30	1633570.58	0.56	-	-
57	5600.00	1.83	47.23	100.00	5591.52	-86.22	-162.58	-59.01	354847.36	1633572.05	1.01	-	-
58	5700.00	1.57	46.67	100.00	5691.47	-86.07	-160.56	-56.84	354849.38	1633574.22	0.26	-	-
59	5800.00	1.39	69.66	100.00	5791.44	-86.41	-159.19	-54.70	354850.75	1633576.36	0.62	-	-
60	5850.00	1.32	71.28	50.00	5841.43	-86.83	-158.80	-53.59	354851.14	1633577.47	0.16	-	-
61	5965.00	1.50	108.20	115.00	5956.39	-88.59	-158.84	-50.90	354851.10	1633580.16	0.79	-0.89 (S)	0.18 (E)
62	6010.00	1.50	103.20	45.00	6001.38	-89.57	-159.16	-49.77	354850.78	1633581.29	0.29	-1.55 (S)	0.33 (E)
63	6054.00	1.10	112.30	44.00	6045.37	-90.40	-159.45	-48.82	354850.49	1633582.24	1.02	-2.16 (S)	0.32 (E)
64	6096.00	1.00	109.80	42.00	6087.36	-91.08	-159.73	-48.10	354850.21	1633582.96	0.26	-2.75 (S)	0.12 (E)
65	6139.00	0.80	103.10	43.00	6130.35	-91.64	-159.93	-47.46	354850.01	1633583.60	0.52	-3.26 (S)	-0.17 (W)
66	6183.00	0.60	93.70	44.00	6174.35	-92.05	-160.01	-46.93	354849.93	1633584.13	0.52	-3.67 (S)	-0.60 (W)
67	6227.00	5.40	33.70	44.00	6218.28	-91.63	-158.30	-45.55	354851.64	1633585.51	11.65	-2.01 (D)	1.12 (R)
68	6272.00	10.00	31.70	45.00	6262.86	-89.82	-153.21	-42.32	354856.73	1633588.74	10.24	3.37 (U)	1.84 (R)
69	6316.00	13.30	32.40	44.00	6305.95	-87.12	-145.69	-37.60	354864.25	1633593.46	7.51	12.18 (U)	5.07 (R)
70	6361.00	14.70	3.00	45.00	6349.67	-81.39	-135.60	-34.52	354874.34	1633596.54	15.93	15.45 (U)	18.29 (R)
71	6405.00	16.80	341.70	44.00	6392.05	-71.41	-123.98	-36.23	354885.96	1633594.83	13.89	13.04 (U)	30.05 (R)

#	Measured Depth (Ft)	INC Deg	AZM Deg	CL (Ft)	TVD (Ft)	VS (Ft)	NS (Ft)	EW (Ft)	Northing (US ft)	Easting (US ft)	DLS ¹ /100 Ft	UD/NS From-Plan (Ft)	LR/EW From-Plan (Ft)
72	6449.00	19.00	333.40	44.00	6433.92	-58.54	-111.53	-41.43	354898.41	1633589.63	7.64	12.79 (U)	38.76 (R)
73	6494.00	19.90	314.30	45.00	6476.40	-43.78	-99.62	-50.20	354910.32	1633580.86	14.21	1.12 (U)	46.39 (R)
74	6538.00	24.50	310.30	44.00	6517.13	-27.32	-88.49	-62.53	354921.45	1633568.53	11.00	-1.05 (D)	50.12 (R)
75	6583.00	27.70	306.10	45.00	6557.54	-7.95	-76.28	-78.10	354933.66	1633552.96	8.21	-3.47 (D)	53.20 (R)
76	6627.00	32.40	302.60	44.00	6595.62	13.25	-63.90	-96.31	354946.04	1633534.75	11.40	-4.91 (D)	55.23 (R)
77	6672.00	36.40	299.10	45.00	6632.74	37.27	-50.90	-118.14	354959.04	1633512.92	9.91	-5.89 (D)	56.24 (R)
78	6716.00	39.20	297.10	44.00	6667.51	62.30	-38.22	-141.93	354971.72	1633489.13	6.95	-5.47 (D)	56.41 (R)
79	6760.00	42.60	294.00	44.00	6700.76	88.54	-25.82	-167.92	354984.12	1633463.14	9.00	-6.06 (D)	55.41 (R)
80	6805.00	46.00	291.40	45.00	6732.97	116.48	-13.72	-196.92	354996.22	1633434.14	8.56	-6.06 (D)	53.02 (R)
81	6849.00	48.70	289.30	44.00	6762.78	144.64	-2.48	-227.26	355007.46	1633403.80	7.07	-5.61 (D)	49.41 (R)
82	6893.00	52.10	288.20	44.00	6790.82	173.66	8.41	-259.36	355018.35	1633371.70	7.96	-4.89 (D)	44.76 (R)
83	6938.00	55.80	288.00	45.00	6817.30	204.59	19.71	-293.93	355029.65	1633337.13	8.23	-3.30 (D)	39.43 (R)
84	6982.00	59.80	288.80	44.00	6840.74	236.35	31.47	-329.25	355041.41	1633301.81	9.22	-1.48 (D)	34.16 (R)
85	7026.00	63.50	289.70	44.00	6861.63	269.68	44.23	-365.80	355054.17	1633265.26	8.60	0.76 (U)	29.28 (R)
86	7071.00	67.40	291.90	45.00	6880.33	305.46	58.78	-404.05	355068.72	1633227.01	9.74	3.06 (U)	25.18 (R)
87	7115.00	72.10	292.50	44.00	6895.55	342.01	74.37	-442.26	355084.31	1633188.80	10.76	5.72 (U)	22.16 (R)
88	7160.00	74.50	292.20	45.00	6908.48	380.24	90.76	-482.12	355100.70	1633148.94	5.37	7.93 (U)	19.21 (R)
89	7204.00	75.40	292.90	44.00	6919.91	418.00	107.06	-521.36	355117.00	1633109.70	2.56	8.99 (U)	16.41 (R)
90	7249.00	77.50	293.70	45.00	6930.45	457.13	124.36	-561.54	355134.30	1633069.52	4.98	8.08 (U)	14.13 (R)
91	7293.00	82.90	293.80	44.00	6937.93	496.05	141.82	-601.21	355151.76	1633029.85	12.27	7.55 (U)	12.28 (R)
92	7337.00	88.20	292.60	44.00	6941.35	535.25	159.09	-641.52	355169.03	1632989.54	12.35	8.08 (U)	10.06 (R)
93	7382.00	90.20	294.20	45.00	6941.98	575.53	176.96	-682.81	355186.90	1632948.25	5.69	9.00 (U)	7.95 (R)
94	7427.00	91.70	297.10	45.00	6941.23	616.56	196.43	-723.36	355206.37	1632907.70	7.25	9.75 (U)	6.86 (R)
95	7471.00	92.00	298.20	44.00	6939.81	657.28	216.84	-762.32	355226.78	1632868.74	2.59	11.18 (U)	6.09 (R)
96	7513.00	92.20	299.70	42.00	6938.27	696.49	237.16	-799.04	355247.10	1632832.02	3.60	12.72 (U)	4.91 (R)
97	7558.00	92.70	302.30	45.00	6936.35	739.03	260.31	-837.58	355270.25	1632793.48	5.88	14.65 (U)	4.03 (R)
98	7602.00	91.90	304.20	44.00	6934.58	781.16	284.41	-874.34	355294.35	1632756.72	4.68	16.41 (U)	3.41 (R)
99	7647.00	91.60	305.90	45.00	6933.21	824.65	310.24	-911.16	355320.18	1632719.90	3.83	17.78 (U)	2.89 (R)
100	7691.00	92.80	307.00	44.00	6931.52	867.42	336.36	-946.53	355346.30	1632684.53	3.70	19.48 (U)	1.98 (R)
101	7735.00	93.60	308.90	44.00	6929.06	910.40	363.38	-981.17	355373.32	1632649.89	4.68	21.96 (U)	0.97 (R)
102	7778.00	92.30	310.40	43.00	6926.85	952.66	390.78	-1014.23	355400.72	1632616.83	4.61	24.15 (U)	-0.11 (L)
103	7822.00	90.90	313.20	44.00	6925.62	996.21	420.09	-1047.01	355430.03	1632584.05	7.11	25.36 (U)	-0.84 (L)
104	7867.00	89.50	314.60	45.00	6925.46	1040.96	451.29	-1079.44	355461.23	1632551.62	4.40	25.52 (U)	-1.35 (L)
105	7911.00	90.30	317.10	44.00	6925.54	1084.85	482.86	-1110.08	355492.80	1632520.98	5.97	25.44 (U)	-1.75 (L)
106	7956.00	92.50	319.00	45.00	6924.44	1129.81	516.32	-1140.15	355526.26	1632490.91	6.46	26.56 (U)	-1.80 (L)
107	7998.00	91.50	322.20	42.00	6922.97	1171.78	548.75	-1166.79	355558.69	1632464.27	7.98	28.02 (U)	-1.25 (L)
108	8042.00	89.50	324.90	44.00	6922.59	1215.68	584.13	-1192.93	355594.07	1632438.13	7.64	28.39 (U)	0.29 (R)
109	8087.00	88.70	325.70	45.00	6923.30	1260.47	621.12	-1218.54	355631.06	1632412.52	2.51	27.69 (U)	1.75 (R)
110	8131.00	89.10	326.40	44.00	6924.14	1304.20	657.62	-1243.11	355667.56	1632387.95	1.83	26.84 (U)	2.54 (R)
111	8176.00	91.70	330.60	45.00	6923.83	1348.67	695.97	-1266.61	355705.91	1632364.45	10.98	27.17 (U)	4.48 (R)
112	8220.00	92.40	329.60	44.00	6922.25	1391.94	734.09	-1288.53	355744.03	1632342.53	2.77	28.75 (U)	7.54 (R)

#	Measured Depth (Ft)	INC Deg	AZM Deg	CL (Ft)	TVD (Ft)	VS (Ft)	NS (Ft)	EW (Ft)	Northing (US ft)	Easting (US ft)	DLS */100 Ft	UD/NS From-Plan (Ft)	LR/EW From-Plan (Ft)
113	8264.00	91.50	328.30	44.00	6920.75	1435.36	771.76	-1311.21	355781.70	1632319.85	3.59	30.24 (U)	9.66 (R)
114	8306.00	91.30	329.10	42.00	6919.73	1476.85	807.64	-1333.03	355817.58	1632298.03	1.96	31.26 (U)	11.56 (R)
115	8351.00	92.20	329.00	45.00	6918.35	1521.25	846.21	-1356.16	355856.15	1632274.90	2.01	32.65 (U)	13.88 (R)
116	8395.00	91.50	326.90	44.00	6916.93	1564.79	883.49	-1379.49	355893.43	1632251.57	5.03	34.06 (U)	15.21 (R)
117	8439.00	89.60	326.30	44.00	6916.51	1608.48	920.22	-1403.71	355930.16	1632227.35	4.53	34.47 (U)	15.56 (R)
118	8484.00	89.80	326.70	45.00	6916.75	1653.17	957.74	-1428.55	355967.68	1632202.51	0.99	34.23 (U)	15.85 (R)
119	8528.00	89.90	326.40	44.00	6916.86	1696.87	994.45	-1452.80	356004.39	1632178.26	0.72	34.12 (U)	16.18 (R)
120	8573.00	89.70	326.30	45.00	6917.02	1741.58	1031.91	-1477.74	356041.85	1632153.32	0.50	33.96 (U)	16.35 (R)
121	8617.00	90.20	328.90	44.00	6917.06	1785.18	1069.06	-1501.31	356079.00	1632129.75	6.02	33.92 (U)	17.51 (R)
122	8662.00	90.90	330.10	45.00	6916.63	1829.54	1107.83	-1524.15	356117.77	1632106.91	3.09	34.36 (U)	20.22 (R)
123	8704.00	90.30	328.90	42.00	6916.19	1870.94	1144.01	-1545.46	356153.95	1632085.60	3.19	34.80 (U)	22.64 (R)
124	8749.00	91.00	327.60	45.00	6915.68	1915.45	1182.28	-1569.14	356192.22	1632061.92	3.28	35.31 (U)	24.30 (R)
125	8793.00	90.90	328.00	44.00	6914.95	1959.02	1219.50	-1592.58	356229.44	1632038.48	0.94	36.04 (U)	25.59 (R)
126	8837.00	91.30	323.80	44.00	6914.10	2002.76	1255.92	-1617.24	356265.86	1632013.82	9.59	36.89 (U)	25.37 (R)
127	8879.00	90.60	323.50	42.00	6913.40	2044.66	1289.75	-1642.13	356299.69	1631988.93	1.81	37.58 (U)	23.57 (R)
128	8923.00	90.40	323.80	44.00	6913.02	2088.56	1325.18	-1668.21	356335.12	1631962.85	0.82	37.96 (U)	21.67 (R)
129	8968.00	89.90	323.00	45.00	6912.90	2133.48	1361.31	-1695.04	356371.25	1631936.02	2.10	38.08 (U)	19.56 (R)
130	9013.00	90.20	324.00	45.00	6912.86	2178.38	1397.48	-1721.81	356407.42	1631909.25	2.32	38.12 (U)	17.47 (R)
131	9055.00	90.50	327.00	42.00	6912.61	2220.17	1432.09	-1745.59	356442.03	1631885.47	7.18	38.38 (U)	17.01 (R)
132	9099.00	90.90	327.10	44.00	6912.07	2263.82	1469.01	-1769.52	356478.95	1631861.54	0.94	38.92 (U)	17.73 (R)
133	9144.00	92.40	322.90	45.00	6910.77	2308.61	1505.85	-1795.32	356515.79	1631835.74	9.91	40.25 (U)	16.76 (R)
134	9188.00	92.50	323.30	44.00	6908.89	2352.50	1541.00	-1821.71	356550.94	1631809.35	0.94	42.13 (U)	14.44 (R)
135	9233.00	92.00	322.30	45.00	6907.13	2397.41	1576.82	-1848.90	356586.76	1631782.16	2.48	43.88 (U)	11.82 (R)
136	9277.00	92.20	322.90	44.00	6905.51	2441.33	1611.75	-1875.60	356621.69	1631755.46	1.44	45.50 (U)	9.11 (R)
137	9322.00	92.20	323.10	45.00	6903.79	2486.23	1647.66	-1902.67	356657.60	1631728.39	0.44	47.23 (U)	6.66 (R)
138	9367.00	91.80	324.20	45.00	6902.22	2531.10	1683.88	-1929.32	356693.82	1631701.74	2.60	48.79 (U)	4.75 (R)
139	9412.00	90.60	325.90	45.00	6901.27	2575.90	1720.76	-1955.09	356730.70	1631675.97	4.62	49.71 (U)	3.95 (R)
140	9456.00	89.80	325.60	44.00	6901.12	2619.67	1757.12	-1979.86	356767.06	1631651.20	1.94	49.87 (U)	3.67 (R)
141	9500.00	89.30	325.20	44.00	6901.46	2663.46	1793.34	-2004.84	356803.28	1631626.22	1.46	49.52 (U)	3.12 (R)
142	9544.00	88.80	324.90	44.00	6902.19	2707.27	1829.40	-2030.04	356839.34	1631601.02	1.33	48.80 (U)	2.30 (R)
143	9587.00	88.60	325.20	43.00	6903.17	2750.08	1864.64	-2054.67	356874.58	1631576.39	0.84	47.83 (U)	1.49 (R)
144	9632.00	90.70	324.80	45.00	6903.44	2794.90	1901.50	-2080.48	356911.44	1631550.58	4.75	47.54 (U)	0.57 (R)
145	9676.00	90.50	324.40	44.00	6902.98	2838.75	1937.36	-2105.96	356947.30	1631525.10	1.02	48.00 (U)	-0.60 (L)
146	9718.00	90.60	324.90	42.00	6902.58	2880.60	1971.61	-2130.26	356981.55	1631500.80	1.21	48.41 (U)	-1.68 (L)
147	9761.00	90.60	325.10	43.00	6902.13	2923.42	2006.84	-2154.93	357016.78	1631476.13	0.47	48.86 (U)	-2.52 (L)
148	9805.00	91.20	325.80	44.00	6901.44	2967.20	2043.07	-2179.88	357053.01	1631451.18	2.10	49.56 (U)	-3.04 (L)
149	9850.00	91.50	326.20	45.00	6900.38	3011.93	2080.37	-2205.03	357090.31	1631426.03	1.11	50.62 (U)	-3.13 (L)
150	9894.00	90.90	325.20	44.00	6899.46	3055.69	2116.71	-2229.82	357126.65	1631401.24	2.65	51.53 (U)	-3.47 (L)
151	9939.00	91.00	324.50	45.00	6898.71	3100.52	2153.50	-2255.73	357163.44	1631375.33	1.57	52.28 (U)	-4.49 (L)
152	9981.00	89.80	323.90	42.00	6898.42	3142.39	2187.56	-2280.29	357197.50	1631350.77	3.19	52.57 (U)	-5.87 (L)
153	10023.00	89.60	323.50	42.00	6898.64	3184.30	2221.41	-2305.16	357231.35	1631325.90	1.06	52.35 (U)	-7.64 (L)

#	Measured Depth (Ft)	INC Deg	AZM Deg	CL (Ft)	TVD (Ft)	VS (Ft)	NS (Ft)	EW (Ft)	Northing (US ft)	Easting (US ft)	DLS ¹ /100 Ft	UD/NS From-Plan (Ft)	LR/EW From-Plan (Ft)
154	10067.00	89.70	323.20	44.00	6898.91	3228.21	2256.71	-2331.42	357266.65	1631299.64	0.72	52.08 (U)	-9.78 (L)
155	10110.00	89.50	322.40	43.00	6899.21	3271.16	2290.96	-2357.42	357300.90	1631273.64	1.92	51.78 (U)	-12.27 (L)
156	10152.00	90.40	324.50	42.00	6899.24	3313.07	2324.70	-2382.43	357334.64	1631248.63	5.44	51.74 (U)	-14.25 (L)
157	10195.00	90.50	325.20	43.00	6898.91	3355.90	2359.85	-2407.18	357369.79	1631223.88	1.64	52.08 (U)	-15.21 (L)
158	10240.00	90.90	326.80	45.00	6898.36	3400.64	2397.16	-2432.34	357407.10	1631198.72	3.66	52.64 (U)	-15.29 (L)
159	10285.00	90.90	327.30	45.00	6897.65	3445.28	2434.91	-2456.82	357444.85	1631174.24	1.11	53.34 (U)	-14.56 (L)
160	10329.00	90.00	327.90	44.00	6897.30	3488.88	2472.06	-2480.39	357482.00	1631150.67	2.46	53.68 (U)	-13.45 (L)
161	10373.00	90.00	328.00	44.00	6897.30	3532.44	2509.35	-2503.74	357519.29	1631127.32	0.23	53.68 (U)	-12.05 (L)
162	10418.00	89.80	327.80	45.00	6897.38	3576.99	2547.48	-2527.65	357557.42	1631103.41	0.63	53.61 (U)	-10.66 (L)
163	10462.00	90.20	329.00	44.00	6897.38	3620.50	2584.95	-2550.71	357594.89	1631080.35	2.87	53.61 (U)	-8.90 (L)
164	10507.00	90.10	329.40	45.00	6897.26	3664.91	2623.60	-2573.75	357633.54	1631057.31	0.92	53.72 (U)	-6.49 (L)
165	10552.00	90.50	330.30	45.00	6897.03	3709.22	2662.51	-2596.35	357672.45	1631034.71	2.19	53.96 (U)	-3.54 (L)
166	10596.00	90.60	329.30	44.00	6896.61	3752.56	2700.54	-2618.48	357710.48	1631012.58	2.28	54.39 (U)	-0.72 (L)
167	10640.00	90.70	328.70	44.00	6896.11	3795.99	2738.25	-2641.14	357748.19	1630989.92	1.38	54.89 (U)	1.49 (R)
168	10685.00	90.70	329.10	45.00	6895.56	3840.43	2776.78	-2664.39	357786.72	1630966.67	0.89	55.44 (U)	3.68 (R)
169	10729.00	90.50	329.10	44.00	6895.10	3883.86	2814.53	-2686.98	357824.47	1630944.08	0.45	55.89 (U)	5.95 (R)
170	10774.00	90.20	327.50	45.00	6894.82	3928.36	2852.82	-2710.63	357862.76	1630920.43	3.62	56.17 (U)	7.63 (R)
171	10818.00	90.30	327.80	44.00	6894.63	3971.96	2889.99	-2734.17	357899.93	1630896.89	0.72	56.36 (U)	8.81 (R)
172	10862.00	91.10	326.60	44.00	6894.09	4015.59	2926.97	-2758.00	357936.91	1630873.06	3.28	56.91 (U)	9.63 (R)
173	10907.00	91.50	326.70	45.00	6893.07	4060.26	2964.55	-2782.73	357974.49	1630848.33	0.92	57.94 (U)	10.04 (R)
174	10951.00	91.70	327.20	44.00	6891.84	4103.91	3001.42	-2806.72	358011.36	1630824.34	1.22	59.17 (U)	10.70 (R)
175	10996.00	91.20	326.70	45.00	6890.70	4148.55	3039.12	-2831.25	358049.06	1630799.81	1.57	60.30 (U)	11.32 (R)
176	11040.00	92.60	324.70	44.00	6889.25	4192.29	3075.45	-2856.03	358085.39	1630775.03	5.55	61.81 (U)	10.91 (R)
177	11084.00	92.70	324.00	44.00	6887.21	4236.11	3111.17	-2881.65	358121.11	1630749.41	1.61	63.85 (U)	9.51 (R)
178	11129.00	91.30	324.90	45.00	6885.64	4280.94	3147.75	-2907.80	358157.69	1630723.26	3.70	65.37 (U)	8.27 (R)
179	11173.00	91.30	324.90	44.00	6884.64	4324.75	3183.74	-2933.09	358193.68	1630697.97	0.00	66.37 (U)	7.33 (R)
180	11217.00	90.20	324.90	44.00	6884.07	4368.58	3219.74	-2958.39	358229.68	1630672.67	2.50	66.93 (U)	6.41 (R)
181	11262.00	88.80	325.10	45.00	6884.46	4413.39	3256.60	-2984.20	358266.54	1630646.86	3.14	66.55 (U)	5.56 (R)
182	11307.00	88.80	325.60	45.00	6885.40	4458.18	3293.61	-3009.78	358303.55	1630621.28	1.11	65.60 (U)	4.94 (R)
183	11351.00	89.00	325.30	44.00	6886.25	4501.96	3329.84	-3034.73	358339.78	1630596.33	0.82	64.76 (U)	4.42 (R)
184	11395.00	89.00	325.20	44.00	6887.01	4545.76	3365.99	-3059.80	358375.93	1630571.26	0.23	63.99 (U)	3.75 (R)
185	11440.00	89.00	325.20	45.00	6887.80	4590.55	3402.93	-3085.48	358412.87	1630545.58	0.00	63.20 (U)	3.02 (R)
186	11484.00	88.90	324.50	44.00	6888.61	4634.38	3438.90	-3110.81	358448.84	1630520.25	1.61	62.40 (U)	2.06 (R)
187	11529.00	91.00	324.00	45.00	6888.64	4679.24	3475.42	-3137.10	358485.36	1630493.96	4.80	62.36 (U)	0.51 (R)
188	11573.00	91.50	324.10	44.00	6887.69	4723.11	3511.03	-3162.92	358520.97	1630468.14	1.16	63.33 (U)	-1.10 (L)
189	11618.00	91.60	323.60	45.00	6886.47	4767.99	3547.36	-3189.46	358557.30	1630441.60	1.13	64.55 (U)	-2.91 (L)
190	11662.00	90.60	324.30	44.00	6885.62	4811.87	3582.92	-3215.35	358592.86	1630415.71	2.77	65.37 (U)	-4.53 (L)
191	11706.00	90.50	324.30	44.00	6885.20	4855.73	3618.65	-3241.02	358628.59	1630390.04	0.23	65.80 (U)	-5.93 (L)
192	11751.00	90.60	324.20	45.00	6884.77	4900.60	3655.17	-3267.31	358665.11	1630363.75	0.31	66.23 (U)	-7.41 (L)
193	11796.00	90.60	323.40	45.00	6884.30	4945.49	3691.48	-3293.89	358701.42	1630337.17	1.78	66.70 (U)	-9.25 (L)
194	11840.00	90.90	323.60	44.00	6883.72	4989.39	3726.85	-3320.06	358736.79	1630311.00	0.82	67.28 (U)	-11.28 (L)

#	Measured Depth (Ft)	INC Deg	AZM Deg	CL (Ft)	TVD (Ft)	VS (Ft)	NS (Ft)	EW (Ft)	Northing (US ft)	Easting (US ft)	DLS ¹ /100 Ft	UD/NS From-Plan (Ft)	LR/EW From-Plan (Ft)
195	11885.00	90.70	325.10	45.00	6883.09	5034.25	3763.41	-3346.28	358773.35	1630284.78	3.36	67.91 (U)	-12.63 (L)
196	11929.00	90.90	325.20	44.00	6882.48	5078.06	3799.52	-3371.42	358809.46	1630259.64	0.51	68.52 (U)	-13.38 (L)
197	11973.00	90.50	324.60	44.00	6881.94	5121.88	3835.51	-3396.72	358845.45	1630234.34	1.64	69.06 (U)	-14.33 (L)
198	12016.00	91.20	325.20	43.00	6881.30	5164.71	3870.69	-3421.44	358880.63	1630209.62	2.14	69.71 (U)	-15.25 (L)
199	12060.00	91.70	327.00	44.00	6880.19	5208.43	3907.20	-3445.97	358917.14	1630185.09	4.24	70.84 (U)	-15.22 (L)
200	12104.00	91.80	326.80	44.00	6878.85	5252.08	3944.04	-3469.99	358953.98	1630161.07	0.51	72.18 (U)	-14.63 (L)
201	12148.00	90.50	327.00	44.00	6877.96	5295.74	3980.89	-3494.01	358990.83	1630137.05	2.99	73.03 (U)	-14.05 (L)
202	12193.00	89.90	326.00	45.00	6877.81	5340.43	4018.41	-3518.85	359028.35	1630112.21	2.59	73.19 (U)	-13.77 (L)
203	12237.00	88.70	326.00	44.00	6878.34	5384.18	4054.89	-3543.45	359064.83	1630087.61	2.73	72.67 (U)	-13.86 (L)
204	12282.00	88.60	325.90	45.00	6879.40	5428.91	4092.16	-3568.64	359102.10	1630062.42	0.31	71.61 (U)	-14.00 (L)
205	12326.00	89.00	325.80	44.00	6880.33	5472.66	4128.57	-3593.34	359138.51	1630037.72	0.94	70.68 (U)	-14.21 (L)
206	12370.00	88.90	324.80	44.00	6881.13	5516.45	4164.74	-3618.38	359174.68	1630012.68	2.28	69.88 (U)	-14.82 (L)
207	12415.00	89.20	325.20	45.00	6881.88	5561.26	4201.59	-3644.19	359211.53	1629986.87	1.11	69.12 (U)	-15.72 (L)
208	12459.00	89.50	326.70	44.00	6882.38	5605.01	4238.05	-3668.82	359247.99	1629962.24	3.48	68.62 (U)	-15.88 (L)
209	12503.00	89.80	326.80	44.00	6882.65	5648.69	4274.84	-3692.95	359284.78	1629938.11	0.72	68.35 (U)	-15.40 (L)
210	12548.00	89.90	326.70	45.00	6882.76	5693.37	4312.47	-3717.62	359322.41	1629913.44	0.31	68.23 (U)	-14.90 (L)
211	12592.00	89.80	325.90	44.00	6882.88	5737.09	4349.08	-3742.03	359359.02	1629889.03	1.83	68.12 (U)	-14.77 (L)
212	12636.00	89.90	324.90	44.00	6882.99	5780.88	4385.30	-3767.02	359395.24	1629864.04	2.28	68.00 (U)	-15.33 (L)
213	12681.00	89.50	323.80	45.00	6883.23	5825.74	4421.86	-3793.24	359431.80	1629837.82	2.60	67.77 (U)	-16.71 (L)
214	12726.00	90.60	326.60	45.00	6883.19	5870.54	4458.81	-3818.92	359468.75	1629812.14	6.69	67.81 (U)	-17.44 (L)
215	12770.00	90.60	326.30	44.00	6882.73	5914.24	4495.48	-3843.24	359505.42	1629787.82	0.68	68.27 (U)	-17.20 (L)
216	12814.00	91.10	326.30	44.00	6882.08	5957.96	4532.08	-3867.65	359542.02	1629763.41	1.14	68.93 (U)	-17.06 (L)
217	12859.00	91.10	325.20	45.00	6881.21	6002.71	4569.27	-3892.97	359579.21	1629738.09	2.44	69.80 (U)	-17.39 (L)
218	12901.00	91.30	325.20	42.00	6880.33	6044.52	4603.75	-3916.94	359613.69	1629714.12	0.48	70.68 (U)	-18.07 (L)
Proj to Bit													
219	12970.00	91.60	325.70	69.00	6878.59	6113.17	4660.56	-3956.05	359670.50	1629675.01	0.84	72.44 (U)	-18.87 (L)
GEODETTIC INFORMATION													
Latitude: 39°28'2.8055" N Dec. Latitude: 39.46744596 Longitude: -80°47'51.9288" W Dec. Longitude: -80.79775800 Geodetic Group: US State Plane 1927 (Exact solution)							Geodetic Zone: West Virginia North 4701 Geodetic Datum: NAD27 Easting: 1633631.06 Northing: 355009.94 Convergence: -0.83						
MAGNETICS INFORMATION													
Magnetic Model: C:\HawkEye\IGRF2010.MIF Date for Magnetics: 10/24/2014 Latitude: 39°28'2.8055" N Longitude: -80°47'51.9288" W Magnetic Declination: -8.51 Total Correction(Mag to Grid): -7.68							Field Strength (nt): 52346 B-X Component (nt): 20295 B-Y Component (nt): -3035 B-Z Component (nt): 48156 B-Horz Component (nt): 20521 Dip Angle: 66.92						