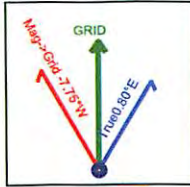
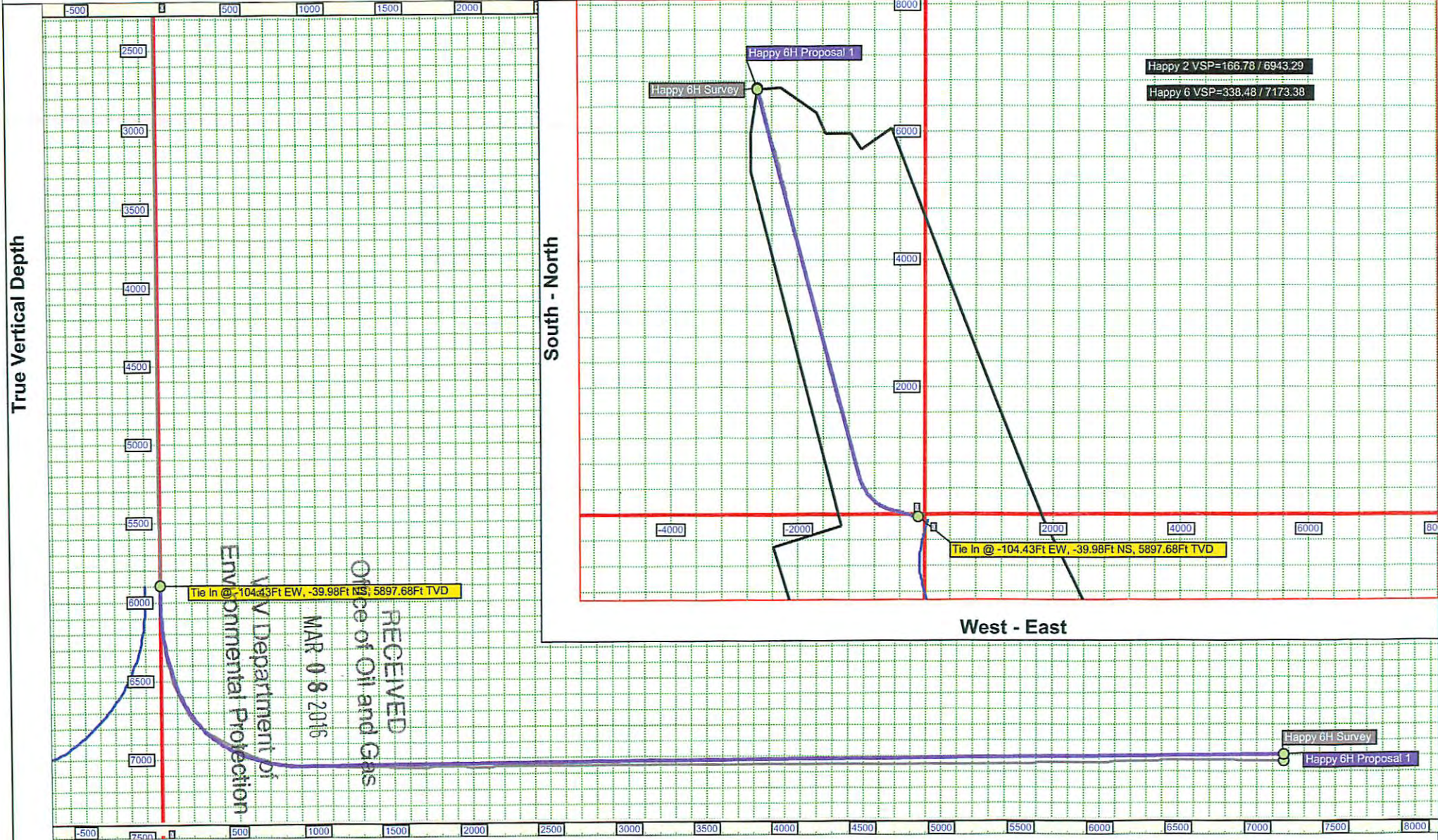




Job Number: Happy 6H Svy
 Company: Jay Bee Oil & Gas
 Lease/Well: Happy 6H
 Location: Northern
 Rig Name:
 State/County: West Virginia/ Tyler
 Country: USA
 API Number:



Elevation (To MSL): 1253.50 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: -8.55
 Grid Convergence: -0.79781 W
 Date: Thursday, March 05, 2015



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 Environmental Protection
 Department of

Vertical Section (500 Ft/Div) VSP: 338.48°

Calculated by HawkEye Software

Job Number: Happy 6H Svy
Company: Jay Bee Oil & Gas
Lease/Well: Happy 6H
Location: Northern
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Elevation GL: 1253.50 ft
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#	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	LR/EW From-Plan	UD/NS From-Plan
1	.00	.00	.00	.00	.00	.00	.00	.00	355665.84	1646840.43	.00	-	-
2	100.00	1.05	128.37	100.00	99.99	-.79	-.57	.72	355665.27	1646841.15	1.05	-	-
3	200.00	.97	137.43	100.00	199.98	-2.38	-1.76	2.01	355664.08	1646842.44	.18	-	-
4	300.00	.26	181.87	100.00	299.97	-3.37	-2.61	2.57	355663.23	1646843.00	.81	-	-
5	400.00	.15	181.01	100.00	399.97	-3.70	-2.97	2.56	355662.87	1646842.99	.11	-	-
6	500.00	.16	183.17	100.00	499.97	-3.95	-3.24	2.55	355662.60	1646842.98	.01	-	-
7	600.00	.08	181.48	100.00	599.97	-4.14	-3.45	2.55	355662.39	1646842.98	.08	-	-
8	700.00	.84	245.56	100.00	699.97	-4.24	-3.82	1.88	355662.02	1646842.31	.81	-	-
9	800.00	1.17	246.15	100.00	799.95	-4.32	-4.54	.28	355661.30	1646840.71	.33	-	-
10	900.00	1.77	252.82	100.00	899.92	-4.25	-5.41	-2.13	355660.43	1646838.30	.62	-	-
11	1000.00	2.10	256.27	100.00	999.86	-3.88	-6.30	-5.39	355659.54	1646835.04	.35	-	-
12	1100.00	2.42	250.45	100.00	1099.78	-3.56	-7.44	-9.16	355658.40	1646831.27	.39	-	-
13	1200.00	2.88	246.78	100.00	1199.68	-3.56	-9.14	-13.46	355656.70	1646826.97	.49	-	-
14	1300.00	3.07	244.01	100.00	1299.54	-3.85	-11.30	-18.17	355654.54	1646822.26	.24	-	-
15	1400.00	3.16	243.42	100.00	1399.39	-4.30	-13.71	-23.04	355652.13	1646817.39	.10	-	-
16	1500.00	3.39	243.08	100.00	1499.23	-4.82	-16.28	-28.15	355649.56	1646812.28	.23	-	-
17	1600.00	3.34	245.81	100.00	1599.06	-5.23	-18.81	-33.44	355647.03	1646806.99	.17	-	-
18	1700.00	3.33	246.44	100.00	1698.89	-5.47	-21.16	-38.76	355644.68	1646801.67	.04	-	-
19	1800.00	3.02	249.83	100.00	1798.74	-5.51	-23.23	-43.89	355642.61	1646796.54	.36	-	-
20	1900.00	3.02	246.55	100.00	1898.60	-5.54	-25.19	-48.78	355640.65	1646791.65	.17	-	-
21	2000.00	2.86	244.74	100.00	1998.47	-5.79	-27.30	-53.46	355638.54	1646786.97	.18	-	-
22	2100.00	2.83	244.78	100.00	2098.34	-6.11	-29.42	-57.95	355636.42	1646782.48	.03	-	-
23	2200.00	2.74	244.00	100.00	2198.22	-6.46	-31.52	-62.33	355634.32	1646778.10	.10	-	-

#	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	LR/EW From-Plan	UD/NS From-Plan
24	2300.00	2.35	242.28	100.00	2298.13	-6.87	-33.52	-66.29	355632.32	1646774.14	.40	-	-
25	2400.00	2.25	240.57	100.00	2398.04	-7.36	-35.44	-69.82	355630.40	1646770.61	.12	-	-
26	2500.00	1.70	235.52	100.00	2497.98	-7.96	-37.24	-72.75	355628.60	1646767.68	.58	-	-
27	2600.00	1.47	236.28	100.00	2597.95	-8.57	-38.80	-75.04	355627.04	1646765.39	.23	-	-
28	2700.00	1.13	238.70	100.00	2697.92	-9.00	-40.02	-76.95	355625.82	1646763.48	.34	-	-
29	2800.00	.78	229.65	100.00	2797.91	-9.39	-40.97	-78.31	355624.87	1646762.12	.38	-	-
30	2900.00	.73	229.01	100.00	2897.90	-9.82	-41.83	-79.31	355624.01	1646761.12	.05	-	-
31	3000.00	.39	243.92	100.00	2997.89	-10.06	-42.40	-80.09	355623.44	1646760.34	.37	-	-
32	3100.00	.43	268.16	100.00	3097.89	-9.96	-42.56	-80.77	355623.28	1646759.66	.18	-	-
33	3200.00	.41	277.98	100.00	3197.89	-9.66	-42.52	-81.50	355623.32	1646758.93	.07	-	-
34	3300.00	.24	281.57	100.00	3297.89	-9.37	-42.43	-82.06	355623.41	1646758.37	.17	-	-
35	3400.00	.16	285.04	100.00	3397.89	-9.17	-42.35	-82.40	355623.49	1646758.03	.08	-	-
36	3500.00	.14	197.48	100.00	3497.89	-9.18	-42.43	-82.58	355623.41	1646757.85	.21	-	-
37	3600.00	.21	38.37	100.00	3597.89	-9.19	-42.41	-82.50	355623.43	1646757.93	.34	-	-
38	3700.00	.12	339.22	100.00	3697.89	-8.99	-42.16	-82.42	355623.68	1646758.01	.18	-	-
39	3800.00	.24	156.94	100.00	3797.88	-9.10	-42.26	-82.38	355623.58	1646758.05	.36	-	-
40	3900.00	.02	98.59	100.00	3897.88	-9.31	-42.45	-82.28	355623.39	1646758.15	.23	-	-
41	4000.00	.17	219.11	100.00	3997.88	-9.40	-42.57	-82.35	355623.27	1646758.08	.18	-	-
42	4100.00	.08	112.62	100.00	4097.88	-9.52	-42.71	-82.38	355623.13	1646758.05	.21	-	-
43	4200.00	.24	224.55	100.00	4197.88	-9.65	-42.89	-82.47	355622.95	1646757.96	.28	-	-
44	4300.00	.20	299.53	100.00	4297.88	-9.60	-42.95	-82.76	355622.89	1646757.67	.27	-	-
45	4400.00	.27	240.50	100.00	4397.88	-9.50	-42.98	-83.12	355622.86	1646757.31	.24	-	-
46	4500.00	.18	256.59	100.00	4497.88	-9.51	-43.14	-83.48	355622.70	1646756.95	.11	-	-
47	4600.00	.39	268.86	100.00	4597.88	-9.37	-43.18	-83.97	355622.66	1646756.46	.22	-	-
48	4700.00	.66	273.87	100.00	4697.88	-9.00	-43.15	-84.89	355622.69	1646755.54	.27	-	-
49	4800.00	.81	252.55	100.00	4797.87	-8.70	-43.32	-86.14	355622.52	1646754.29	.31	-	-
50	4900.00	.98	253.98	100.00	4897.86	-8.57	-43.77	-87.63	355622.07	1646752.80	.17	-	-
51	5000.00	1.03	260.11	100.00	4997.84	-8.31	-44.16	-89.34	355621.68	1646751.09	.12	-	-
52	5100.00	.97	268.35	100.00	5097.83	-7.84	-44.34	-91.07	355621.50	1646749.36	.16	-	-
53	5200.00	1.00	267.59	100.00	5197.81	-7.25	-44.40	-92.85	355621.44	1646747.58	.10	-	-
54	5300.00	1.00	285.44	100.00	5297.79	-6.37	-44.19	-94.69	355621.65	1646745.74	.33	-	-
55	5400.00	.99	285.80	100.00	5397.78	-5.43	-43.86	-96.41	355621.98	1646744.02	.23	-	-
56	5500.00	1.24	288.09	100.00	5497.76	-4.37	-43.44	-98.24	355622.40	1646742.19	.39	-	-
57	5600.00	1.88	297.10	100.00	5597.72	-2.45	-42.35	-100.74	355623.49	1646739.69	.69	-	-
58	5700.00	.99	305.61	100.00	5697.69	-.48	-41.10	-102.91	355624.74	1646737.52	.92	-	-
59	5800.00	.48	315.41	100.00	5797.68	.63	-40.30	-103.91	355625.54	1646736.52	.52	-	-
60	5900.00	.26	274.24	100.00	5897.68	1.11	-39.98	-104.43	355625.86	1646736.00	.33	-	-
61	6002.00	.40	285.50	102.00	5999.68	1.43	-39.87	-105.00	355625.97	1646735.43	.15	-0.08 W	0.03 N
62	6046.00	2.60	278.20	44.00	6043.66	2.02	-39.68	-106.14	355626.16	1646734.29	5.01	0.13 E	-0.12 S
63	6090.00	5.60	280.40	44.00	6087.54	3.65	-39.15	-109.24	355626.69	1646731.19	6.83	-0.34 L	-0.21 D

MAR 08 2016
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 Division of Oil and Gas
 1000 Main Street
 Denver, CO 80202

#	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	LR/EW From-Plan	UD/NS From-Plan
64	6135.00	8.30	286.20	45.00	6132.21	6.79	-37.85	-114.52	355627.99	1646725.91	6.19	-0.32 L	-0.42 D
65	6177.00	10.40	287.90	42.00	6173.65	11.06	-35.84	-121.04	355630.00	1646719.39	5.04	0.07 R	-0.53 D
66	6222.00	12.30	285.70	45.00	6217.76	16.54	-33.30	-129.52	355632.54	1646710.91	4.33	0.49 R	-1.29 D
67	6266.00	14.90	280.90	44.00	6260.53	22.40	-30.96	-139.58	355634.88	1646700.85	6.44	0.17 R	-2.26 D
68	6311.00	17.50	280.50	45.00	6303.74	29.09	-28.63	-151.92	355637.21	1646688.51	5.78	-0.63 L	-3.36 D
69	6355.00	19.80	282.30	44.00	6345.43	36.75	-25.84	-165.71	355640.00	1646674.72	5.39	-1.19 L	-4.54 D
70	6399.00	22.00	283.50	44.00	6386.53	45.63	-22.32	-181.00	355643.52	1646659.43	5.09	-1.40 L	-6.08 D
71	6444.00	24.60	283.80	45.00	6427.85	55.88	-18.12	-198.30	355647.72	1646642.13	5.78	-1.49 L	-7.80 D
72	6489.00	25.60	283.40	45.00	6468.60	66.86	-13.63	-216.85	355652.21	1646623.58	2.25	-1.69 L	-10.22 D
73	6533.00	28.70	282.60	44.00	6507.75	78.23	-9.13	-236.42	355656.71	1646604.01	7.09	-2.23 L	-13.01 D
74	6577.00	33.40	283.10	44.00	6545.44	91.05	-4.07	-258.53	355661.77	1646581.90	10.70	-2.60 L	-14.77 D
75	6619.00	37.50	283.80	42.00	6579.64	105.01	1.60	-282.22	355667.44	1646558.21	9.81	-2.67 L	-15.22 D
76	6664.00	40.40	283.30	45.00	6614.64	121.26	8.22	-309.72	355674.06	1646530.71	6.48	-2.99 L	-14.75 D
77	6708.00	43.50	282.90	44.00	6647.36	137.97	14.88	-338.36	355680.72	1646502.07	7.07	-3.52 L	-14.22 D
78	6752.00	46.80	283.50	44.00	6678.38	155.74	22.01	-368.73	355687.85	1646471.70	7.56	-3.83 L	-13.11 D
79	6797.00	51.80	284.10	45.00	6707.72	175.46	30.15	-401.85	355695.99	1646438.58	11.16	-3.85 L	-10.92 D
80	6839.00	55.20	284.60	42.00	6732.70	195.24	38.52	-434.55	355704.36	1646405.88	8.15	-3.61 L	-7.60 D
81	6884.00	58.20	284.70	45.00	6757.40	217.44	48.03	-470.93	355713.87	1646369.50	6.67	-3.20 L	-3.52 D
82	6926.00	62.10	284.40	42.00	6778.30	238.88	57.18	-506.19	355723.02	1646334.24	9.31	-2.88 L	0.89 U
83	6968.00	64.40	283.80	42.00	6797.20	260.72	66.32	-542.56	355732.16	1646297.87	5.62	-2.81 L	5.89 U
84	7011.00	64.80	287.80	43.00	6815.66	284.26	76.89	-579.92	355742.73	1646260.51	8.45	-3.06 L	10.30 U
85	7055.00	64.80	291.70	44.00	6834.40	310.52	90.34	-617.38	355756.18	1646223.05	8.02	-3.20 L	14.15 U
86	7098.00	66.10	295.80	43.00	6852.27	338.30	106.10	-653.17	355771.94	1646187.26	9.18	-3.33 L	17.49 U
87	7142.00	66.50	299.40	44.00	6869.96	368.76	124.76	-688.87	355790.60	1646151.56	7.55	-3.36 L	20.55 U
88	7185.00	66.50	302.90	43.00	6887.11	400.11	145.15	-722.61	355810.99	1646117.82	7.46	-3.39 L	22.67 U
89	7229.00	66.90	306.90	44.00	6904.52	433.77	168.27	-755.74	355834.11	1646084.69	8.40	-3.46 L	23.77 U
90	7273.00	67.00	310.90	44.00	6921.75	468.97	193.69	-787.24	355859.53	1646053.19	8.37	-2.95 L	23.95 U
91	7318.00	66.90	314.90	45.00	6939.38	506.31	221.87	-817.57	355887.71	1646022.86	8.18	-2.17 L	22.73 U
92	7360.00	66.90	317.90	42.00	6955.86	542.10	249.84	-844.20	355915.68	1645996.23	6.57	-0.87 L	20.46 U
93	7405.00	67.70	321.00	45.00	6973.23	581.34	281.38	-871.19	355947.22	1645969.24	6.60	0.31 R	16.81 U
94	7450.00	70.50	324.20	45.00	6989.28	621.77	314.78	-896.70	355980.62	1645943.73	9.10	1.78 R	13.20 U
95	7494.00	73.40	327.00	44.00	7002.92	662.54	349.29	-920.33	356015.13	1645920.10	8.95	2.96 R	10.23 U
96	7539.00	76.80	329.70	45.00	7014.49	705.34	386.31	-943.13	356052.15	1645897.30	9.52	4.20 R	8.30 U
97	7584.00	79.90	333.20	45.00	7023.58	749.07	425.01	-964.18	356090.85	1645876.25	10.27	5.23 R	7.19 U
98	7629.00	81.20	335.90	45.00	7030.97	793.35	465.09	-983.25	356130.93	1645857.18	6.59	6.55 R	6.34 U
99	7673.00	81.60	337.60	44.00	7037.55	836.83	505.06	-1000.43	356170.90	1645840.00	3.93	7.09 R	4.42 U
100	7717.00	84.20	340.40	44.00	7042.99	880.49	545.82	-1016.07	356211.66	1645824.36	8.65	7.33 R	2.24 U
101	7762.00	88.00	343.00	45.00	7046.05	925.30	588.43	-1030.16	356254.27	1645810.27	10.22	7.17 R	0.70 U
102	7807.00	89.80	344.10	45.00	7046.91	970.11	631.58	-1042.90	356297.42	1645797.53	4.69	6.48 R	-0.05 D
103	7851.00	90.20	343.60	44.00	7046.91	1013.92	673.84	-1055.14	356339.68	1645785.29	1.46	5.35 R	-0.44 D

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104	7896.00	90.00	343.40	45.00	7046.83	1058.75	716.99	-1067.92	356382.83	1645772.51	.63	3.91 R	-0.76 D
105	7940.00	89.30	345.70	44.00	7047.10	1102.50	759.39	-1079.64	356425.23	1645760.79	5.46	3.31 R	-1.41 D
106	7985.00	89.30	345.60	45.00	7047.65	1147.14	802.99	-1090.79	356468.83	1645749.64	.22	3.57 R	-2.36 D
107	8027.00	89.40	345.30	42.00	7048.13	1188.83	843.64	-1101.34	356509.48	1645739.09	.75	3.66 R	-3.21 D
108	8070.00	88.70	345.40	43.00	7048.84	1231.51	885.23	-1112.22	356551.07	1645728.21	1.64	3.67 R	-4.30 D
109	8115.00	88.90	346.10	45.00	7049.78	1276.14	928.84	-1123.29	356594.68	1645717.14	1.62	4.01 R	-5.64 D
110	8159.00	89.00	345.70	44.00	7050.59	1319.77	971.51	-1134.01	356637.35	1645706.42	.94	4.45 R	-6.83 D
111	8203.00	88.50	345.10	44.00	7051.55	1363.43	1014.07	-1145.10	356679.91	1645695.33	1.77	4.50 R	-8.18 D
112	8248.00	88.40	344.20	45.00	7052.77	1408.16	1057.45	-1157.00	356723.29	1645683.43	2.01	3.96 R	-9.79 D
113	8292.00	88.10	344.60	44.00	7054.11	1451.90	1099.81	-1168.83	356765.65	1645671.60	1.14	3.25 R	-11.53 D
114	8337.00	87.30	344.10	45.00	7055.92	1496.63	1143.11	-1180.96	356808.95	1645659.47	2.10	2.48 R	-13.74 D
115	8379.00	89.20	343.90	42.00	7057.20	1538.41	1183.46	-1192.53	356849.30	1645647.90	4.55	1.51 R	-15.38 D
116	8424.00	89.60	344.10	45.00	7057.67	1583.20	1226.72	-1204.93	356892.56	1645635.50	.99	0.47 R	-16.24 D
117	8469.00	91.10	347.10	45.00	7057.39	1627.85	1270.29	-1216.12	356936.13	1645624.31	7.45	0.68 R	-16.36 D
118	8513.00	91.20	345.90	44.00	7056.51	1671.41	1313.07	-1226.39	356978.91	1645614.04	2.74	1.59 R	-15.87 D
119	8557.00	91.00	344.50	44.00	7055.67	1715.10	1355.60	-1237.63	357021.44	1645602.80	3.21	1.50 R	-15.41 D
120	8602.00	90.90	345.20	45.00	7054.92	1759.81	1399.03	-1249.39	357064.87	1645591.04	1.57	1.12 R	-15.06 D
121	8646.00	90.80	344.30	44.00	7054.27	1803.54	1441.48	-1260.96	357107.32	1645579.47	2.06	0.68 R	-14.79 D
122	8690.00	89.80	343.40	44.00	7054.04	1847.35	1483.74	-1273.20	357149.58	1645567.23	3.06	-0.46 L	-14.95 D
123	8735.00	89.20	342.90	45.00	7054.43	1892.20	1526.80	-1286.24	357192.64	1645554.19	1.74	-2.18 L	-15.74 D
124	8779.00	89.20	343.50	44.00	7055.04	1936.04	1568.92	-1298.96	357234.76	1645541.47	1.36	-3.81 L	-16.74 D
125	8824.00	89.00	343.20	45.00	7055.75	1980.88	1612.03	-1311.85	357277.87	1645528.58	.80	-5.37 L	-17.85 D
126	8868.00	90.40	343.60	44.00	7055.98	2024.71	1654.19	-1324.42	357320.03	1645516.01	3.31	-6.84 L	-18.46 D
127	8912.00	90.10	341.70	44.00	7055.79	2068.59	1696.19	-1337.54	357362.03	1645502.89	4.37	-8.91 L	-18.66 D
128	8957.00	90.40	341.50	45.00	7055.59	2113.53	1738.89	-1351.74	357404.73	1645488.69	.80	-11.83 L	-18.86 D
129	9001.00	90.50	342.10	44.00	7055.25	2157.45	1780.69	-1365.49	357446.53	1645474.94	1.38	-14.54 L	-18.90 D
130	9046.00	90.70	344.60	45.00	7054.78	2202.28	1823.79	-1378.38	357489.63	1645462.05	5.57	-16.08 L	-18.82 D
131	9090.00	91.20	344.40	44.00	7054.05	2246.03	1866.19	-1390.14	357532.03	1645450.29	1.22	-16.71 L	-18.48 D
132	9135.00	91.40	345.30	45.00	7053.03	2290.74	1909.61	-1401.89	357575.45	1645438.54	2.05	-17.09 L	-17.85 D
133	9180.00	91.60	345.40	45.00	7051.85	2335.40	1953.13	-1413.27	357618.97	1645427.16	.50	-17.07 L	-17.07 D
134	9222.00	91.30	347.20	42.00	7050.78	2377.00	1993.92	-1423.21	357659.76	1645417.22	4.34	-16.38 L	-16.37 D
135	9267.00	91.00	346.20	45.00	7049.88	2421.53	2037.71	-1433.56	357703.55	1645406.87	2.32	-15.28 L	-15.86 D
136	9312.00	90.90	346.00	45.00	7049.14	2466.12	2081.38	-1444.37	357747.22	1645396.06	.50	-14.68 L	-15.51 D
137	9356.00	90.50	345.90	44.00	7048.60	2509.75	2124.06	-1455.05	357789.90	1645385.38	.94	-14.20 L	-15.36 D
138	9402.00	90.50	345.60	46.00	7048.20	2555.37	2168.65	-1466.38	357834.49	1645374.05	.65	-13.86 L	-15.37 D
139	9446.00	90.20	345.00	44.00	7047.93	2599.06	2211.21	-1477.54	357877.05	1645362.89	1.52	-13.88 L	-15.49 D
140	9490.00	88.90	346.50	44.00	7048.27	2642.71	2253.85	-1488.37	357919.69	1645352.06	4.51	-13.55 L	-16.22 D
141	9535.00	88.50	346.60	45.00	7049.25	2687.25	2297.60	-1498.84	357963.44	1645341.59	.70	-12.58 L	-17.60 D
142	9579.00	88.00	345.90	44.00	7050.37	2730.83	2340.33	-1509.29	358006.17	1645331.14	1.61	-11.88 L	-19.11 D
143	9624.00	88.00	345.40	45.00	7051.59	2775.46	2383.91	-1520.44	358049.75	1645319.99	1.13	-11.63 L	-20.72 D

Environmental Protection
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 11/15/05

#	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	LR/EW From-Plan	UD/NS From-Plan
144	9668.00	90.50	347.40	44.00	7052.01	2819.04	2426.67	-1530.78	358092.51	1645309.65	6.59	-10.82 L	-21.52 D
145	9712.00	91.00	349.60	44.00	7051.43	2862.36	2469.78	-1539.55	358135.62	1645300.88	5.13	-8.42 L	-21.33 D
146	9757.00	91.10	349.20	45.00	7050.61	2906.54	2514.00	-1547.83	358179.84	1645292.60	.92	-5.21 L	-20.90 D
147	9801.00	90.60	347.60	44.00	7049.95	2949.87	2557.10	-1556.68	358222.94	1645283.75	3.81	-2.83 L	-20.63 D
148	9846.00	90.00	347.30	45.00	7049.72	2994.32	2601.02	-1566.46	358266.86	1645273.97	1.49	-1.15 L	-20.79 D
149	9890.00	89.60	346.70	44.00	7049.87	3037.83	2643.89	-1576.35	358309.73	1645264.08	1.64	0.14 R	-21.34 D
150	9935.00	89.30	346.20	45.00	7050.30	3082.40	2687.64	-1586.90	358353.48	1645253.53	1.30	1.02 R	-22.17 D
151	9979.00	89.10	345.10	44.00	7050.92	3126.05	2730.26	-1597.80	358396.10	1645242.63	2.54	1.26 R	-23.17 D
152	10023.00	89.10	344.90	44.00	7051.61	3169.76	2772.76	-1609.19	358438.60	1645231.24	.45	1.01 R	-24.25 D
153	10065.00	88.70	345.10	42.00	7052.42	3211.48	2813.32	-1620.05	358479.16	1645220.38	1.06	0.77 R	-25.43 D
154	10109.00	88.70	344.30	44.00	7053.41	3255.21	2855.75	-1631.66	358521.59	1645208.77	1.82	0.28 R	-26.82 D
155	10152.00	89.90	344.80	43.00	7053.94	3297.96	2897.19	-1643.12	358563.03	1645197.31	3.02	-0.29 L	-27.71 D
156	10195.00	90.30	345.60	43.00	7053.86	3340.67	2938.76	-1654.10	358604.60	1645186.33	2.08	-0.39 L	-28.01 D
157	10239.00	90.40	346.40	44.00	7053.60	3384.29	2981.45	-1664.74	358647.29	1645175.69	1.83	0.12 R	-28.13 D
158	10283.00	90.50	347.20	44.00	7053.25	3427.82	3024.29	-1674.79	358690.13	1645165.64	1.83	1.25 R	-28.17 D
159	10328.00	90.50	348.00	45.00	7052.86	3472.25	3068.24	-1684.45	358734.08	1645155.98	1.78	3.03 R	-28.17 D
160	10369.00	90.60	348.60	41.00	7052.46	3512.65	3108.38	-1692.77	358774.22	1645147.66	1.48	5.16 R	-28.14 D
161	10414.00	90.70	345.90	45.00	7051.95	3557.12	3152.27	-1702.70	358818.11	1645137.73	6.00	6.67 R	-28.03 D
162	10459.00	90.80	345.60	45.00	7051.36	3601.75	3195.88	-1713.77	358861.72	1645126.66	.70	7.01 R	-27.83 D
163	10502.00	90.60	344.50	43.00	7050.84	3644.46	3237.42	-1724.87	358903.26	1645115.56	2.60	6.81 R	-27.68 D
164	10546.00	90.10	342.40	44.00	7050.57	3688.30	3279.59	-1737.40	358945.43	1645103.03	4.91	5.37 R	-27.80 D
165	10590.00	89.90	341.40	44.00	7050.57	3732.22	3321.42	-1751.07	358987.26	1645089.36	2.32	2.73 R	-28.19 D
166	10635.00	89.90	341.80	45.00	7050.65	3777.15	3364.12	-1765.27	359029.96	1645075.16	.89	-0.20 L	-28.67 D
167	10679.00	90.60	344.40	44.00	7050.46	3821.00	3406.21	-1778.06	359072.05	1645062.37	6.12	-1.90 L	-28.86 D
168	10723.00	90.80	344.00	44.00	7049.92	3864.78	3448.55	-1790.04	359114.39	1645050.39	1.02	-2.76 L	-28.71 D
169	10768.00	90.50	343.50	45.00	7049.41	3909.59	3491.75	-1802.63	359157.59	1645037.80	1.30	-4.00 L	-28.59 D
170	10812.00	89.80	345.60	44.00	7049.29	3953.34	3534.15	-1814.35	359199.99	1645026.08	5.03	-4.61 L	-28.87 D
171	10857.00	89.50	345.70	45.00	7049.57	3997.98	3577.75	-1825.51	359243.59	1645014.92	.70	-4.35 L	-29.54 D
172	10901.00	89.20	345.00	44.00	7050.07	4041.66	3620.31	-1836.63	359286.15	1645003.80	1.73	-4.34 L	-30.43 D
173	10943.00	89.20	344.60	42.00	7050.65	4083.41	3660.84	-1847.64	359326.68	1644992.79	.95	-4.73 L	-31.39 D
174	10987.00	89.10	346.00	44.00	7051.31	4127.09	3703.39	-1858.81	359369.23	1644981.62	3.19	-4.74 L	-32.43 D
175	11032.00	88.70	347.60	45.00	7052.17	4171.60	3747.20	-1869.08	359413.04	1644971.35	3.66	-3.56 L	-33.69 D
176	11076.00	88.40	346.90	44.00	7053.28	4215.08	3790.10	-1878.79	359455.94	1644961.64	1.73	-2.09 L	-35.20 D
177	11120.00	88.90	345.50	44.00	7054.09	4258.67	3832.82	-1889.28	359498.66	1644951.15	4.05	-1.44 L	-36.38 D
178	11165.00	89.00	345.00	45.00	7054.64	4303.35	3876.33	-1900.74	359542.17	1644939.69	1.42	-1.51 L	-37.33 D
179	11209.00	88.90	345.00	44.00	7055.02	4347.06	3918.83	-1912.13	359584.67	1644928.30	1.82	-1.75 L	-38.09 D
180	11254.00	88.90	344.80	45.00	7055.10	4391.78	3962.28	-1923.85	359628.12	1644916.58	.44	-2.09 L	-38.56 D
181	11298.00	88.80	343.70	44.00	7055.22	4435.56	4004.62	-1935.79	359670.46	1644904.64	2.51	-2.92 L	-39.07 D
182	11343.00	88.90	344.80	45.00	7055.34	4480.33	4047.93	-1948.01	359713.77	1644892.42	2.45	-3.76 L	-39.58 D
183	11387.00	90.10	347.40	44.00	7054.95	4523.93	4090.64	-1958.57	359756.48	1644881.86	6.51	-3.20 L	-39.58 D

Environmental Protection
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 W-12000
 W-076.00
 W-032.00
 W-098.00
 W-254.00
 W-209.00
 W-165.00
 W-120.00
 W-076.00
 W-032.00

#	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	LR/EW From-Plan	UD/NS From-Plan
184	11431.00	90.80	346.80	44.00	7054.22	4567.43	4133.52	-1968.40	359799.36	1644872.03	1.52	-1.82 L	-39.24 D
185	11476.00	90.80	344.40	45.00	7053.59	4612.08	4177.10	-1979.59	359842.94	1644860.84	5.33	-1.59 L	-39.01 D
186	11520.00	90.50	342.80	44.00	7053.09	4655.90	4219.31	-1992.01	359885.15	1644848.42	3.70	-2.91 L	-38.90 D
187	11564.00	90.40	342.20	44.00	7052.75	4699.79	4261.27	-2005.24	359927.11	1644835.19	1.38	-5.08 L	-38.94 D
188	11609.00	90.20	343.90	45.00	7052.51	4744.64	4304.31	-2018.36	359970.15	1644822.07	3.80	-6.88 L	-39.10 D
189	11653.00	90.70	343.60	44.00	7052.17	4788.45	4346.55	-2030.67	360012.39	1644809.76	1.33	-8.08 L	-39.14 D
190	11697.00	90.40	342.80	44.00	7051.75	4832.30	4388.67	-2043.39	360054.51	1644797.04	1.94	-9.72 L	-39.11 D
191	11741.00	90.10	343.50	44.00	7051.55	4876.16	4430.78	-2056.14	360096.62	1644784.29	1.73	-11.40 L	-39.30 D
192	11786.00	90.50	346.40	45.00	7051.32	4920.86	4474.23	-2067.82	360140.07	1644772.61	6.51	-11.70 L	-39.45 D
193	11830.00	90.30	346.10	44.00	7051.01	4964.46	4516.97	-2078.28	360182.81	1644762.15	.82	-10.99 L	-39.54 D
194	11874.00	90.00	346.40	44.00	7050.90	5008.05	4559.71	-2088.74	360225.55	1644751.69	.96	-10.28 L	-39.81 D
195	11919.00	89.60	344.40	45.00	7051.05	5052.72	4603.25	-2100.08	360269.09	1644740.35	4.53	-10.22 L	-40.37 D
196	11963.00	89.60	345.10	44.00	7051.36	5096.46	4645.70	-2111.65	360311.54	1644728.78	1.59	-10.66 L	-41.06 D
197	12007.00	90.70	350.00	44.00	7051.24	5139.90	4688.66	-2121.14	360354.50	1644719.29	11.41	-9.03 L	-41.32 D
198	12052.00	90.70	349.80	45.00	7050.69	5184.00	4732.95	-2129.03	360398.79	1644711.40	.44	-5.42 L	-41.17 D
199	12096.00	90.20	349.30	44.00	7050.35	5227.18	4776.22	-2137.01	360442.06	1644703.42	1.61	-2.14 L	-41.21 D
200	12140.00	89.70	348.20	44.00	7050.39	5270.48	4819.38	-2145.59	360485.22	1644694.84	2.75	0.51 R	-41.64 D
201	12185.00	89.90	348.80	45.00	7050.54	5314.79	4863.47	-2154.56	360529.31	1644685.87	1.41	3.00 R	-42.19 D
202	12229.00	90.70	353.50	44.00	7050.31	5357.70	4906.94	-2161.33	360572.78	1644679.10	10.84	7.45 R	-42.35 D
203	12274.00	90.90	353.70	45.00	7049.69	5401.14	4951.65	-2166.35	360617.49	1644674.08	.63	13.98 R	-42.13 D
204	12318.00	90.40	350.30	44.00	7049.19	5443.91	4995.21	-2172.47	360661.05	1644667.96	7.81	19.08 R	-42.01 D
205	12362.00	90.60	346.90	44.00	7048.80	5487.22	5038.34	-2181.16	360704.18	1644659.27	7.74	21.54 R	-42.00 D
206	12407.00	90.80	346.80	45.00	7048.25	5531.74	5082.15	-2191.40	360747.99	1644649.03	.50	22.74 R	-41.85 D
207	12450.00	90.90	346.70	43.00	7047.61	5574.29	5124.01	-2201.26	360789.85	1644639.17	.33	23.80 R	-41.59 D
208	12494.00	90.90	345.70	44.00	7046.92	5617.88	5166.73	-2211.75	360832.57	1644628.68	2.27	24.48 R	-41.28 D
209	12539.00	89.70	343.00	45.00	7046.69	5662.64	5210.06	-2223.89	360875.90	1644616.54	6.57	23.72 R	-41.43 D
210	12584.00	90.30	344.30	45.00	7046.69	5707.46	5253.23	-2236.55	360919.07	1644603.88	3.18	22.40 R	-41.83 D
211	12629.00	90.60	346.10	45.00	7046.33	5752.14	5296.74	-2248.05	360962.58	1644592.38	4.06	22.29 R	-41.88 D
212	12674.00	90.50	346.70	45.00	7045.90	5796.71	5340.47	-2258.63	361006.31	1644581.80	1.35	23.14 R	-41.85 D
213	12719.00	90.20	348.10	45.00	7045.23	5841.16	5384.38	-2268.44	361050.22	1644571.99	3.48	24.75 R	-41.58 D
214	12764.00	90.40	349.50	45.00	7044.21	5885.42	5428.52	-2277.18	361094.36	1644563.25	3.14	27.49 R	-40.97 D
215	12809.00	91.60	348.00	45.00	7043.04	5929.68	5472.63	-2285.96	361138.47	1644554.47	3.36	30.16 R	-40.18 D
216	12853.00	92.00	344.20	44.00	7041.65	5973.27	5515.32	-2296.52	361181.16	1644543.91	8.68	30.80 R	-39.17 D
217	12895.00	92.20	342.90	42.00	7040.11	6015.07	5555.57	-2308.41	361221.41	1644532.02	3.13	29.55 R	-38.00 D
218	12937.00	91.10	343.00	42.00	7038.90	6056.93	5595.71	-2320.72	361261.55	1644519.71	2.63	27.78 R	-37.15 D
219	12981.00	90.80	341.40	44.00	7038.18	6100.83	5637.59	-2334.16	361303.43	1644506.27	3.70	25.42 R	-36.80 D
220	13026.00	91.90	342.80	45.00	7037.31	6145.73	5680.41	-2347.99	361346.25	1644492.44	3.38	22.85 R	-36.34 D
221	13070.00	91.90	342.80	44.00	7036.04	6189.58	5722.42	-2361.00	361388.26	1644479.43	1.14	20.93 R	-35.46 D
222	13115.00	92.10	343.50	45.00	7034.47	6234.41	5765.46	-2374.03	361431.30	1644466.40	1.62	19.19 R	-34.30 D
223	13157.00	91.20	342.70	42.00	7033.26	6276.25	5805.63	-2386.24	361471.47	1644454.19	2.87	17.56 R	-33.44 D

Environmental Protection
MVA
8/2/15
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#	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	LR/EW From-Plan	UD/NS From-Plan
224	13202.00	91.30	342.10	45.00	7032.28	6321.14	5848.51	-2399.84	361514.35	1644440.59	1.35	15.28 R	-32.86 D
225	13247.00	92.00	345.70	45.00	7030.99	6365.91	5891.72	-2412.31	361557.56	1644428.12	8.15	14.09 R	-31.97 D
226	13291.00	92.00	347.10	44.00	7029.45	6409.46	5934.46	-2422.65	361600.30	1644417.78	3.18	14.89 R	-30.83 D
227	13335.00	90.00	346.80	44.00	7028.68	6452.97	5977.32	-2432.59	361643.16	1644407.84	4.60	16.17 R	-30.44 D
228	13378.00	90.50	345.70	43.00	7028.50	6495.58	6019.08	-2442.81	361684.92	1644397.62	2.81	16.85 R	-30.62 D
229	13423.00	90.40	346.60	45.00	7028.14	6540.17	6062.77	-2453.58	361728.61	1644386.85	2.01	17.50 R	-30.67 D
230	13467.00	90.20	346.30	44.00	7027.91	6583.75	6105.55	-2463.89	361771.39	1644376.54	.82	18.36 R	-30.82 D
231	13512.00	89.80	345.30	45.00	7027.91	6628.38	6149.17	-2474.93	361815.01	1644365.50	2.39	18.73 R	-31.22 D
232	13557.00	90.20	346.40	45.00	7027.91	6673.01	6192.81	-2485.93	361858.65	1644354.50	2.60	19.15 R	-31.62 D
233	13602.00	89.80	345.90	45.00	7027.91	6717.60	6236.50	-2496.70	361902.34	1644343.73	1.42	19.79 R	-32.01 D
234	13646.00	89.40	345.40	44.00	7028.22	6761.26	6279.12	-2507.60	361944.96	1644332.83	1.46	20.04 R	-32.71 D
235	13691.00	89.10	345.20	45.00	7028.81	6805.94	6322.65	-2519.02	361988.49	1644321.41	.80	20.02 R	-33.70 D
236	13735.00	88.90	346.10	44.00	7029.58	6849.58	6365.27	-2529.92	362031.11	1644310.51	2.10	20.28 R	-34.86 D
237	13780.00	88.70	345.80	45.00	7030.52	6894.19	6408.91	-2540.85	362074.75	1644299.58	.80	20.76 R	-36.20 D
238	13824.00	90.00	345.40	44.00	7031.02	6937.85	6451.53	-2551.79	362117.37	1644288.64	3.09	20.96 R	-37.07 D
239	13869.00	89.40	344.30	45.00	7031.25	6982.57	6494.96	-2563.55	362160.80	1644276.88	2.78	20.58 R	-37.70 D
240	13914.00	88.80	343.50	45.00	7031.96	7027.36	6538.19	-2576.03	362204.03	1644264.40	2.22	19.45 R	-38.81 D
241	13959.00	88.30	342.30	45.00	7033.10	7072.21	6581.19	-2589.25	362247.03	1644251.18	2.89	17.52 R	-40.36 D
242	14005.00	88.00	341.80	46.00	7034.58	7118.10	6624.92	-2603.42	362290.76	1644237.01	1.27	14.87 R	-42.26 D
Proj to Bit													
243	14055.00	88.00	341.80	56.00	7036.54	7168.77	6673.09	-2620.90	362338.93	1644219.53	.05	-	-

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