

# Minimum Radius of Curvature

**API: 42-479-44609**      **Well: Gates 010-CHK-A TR3 O 2H**      **Wellhead Location N+/S- : 28.042478**  
**Operator: Chesapeake Energy**      **Area: Eagleford**      **E+/W- : -99.856962**  
**Rig: Nabors 887**      **Type: U-Lateral**      **Magnetic Declination: 4.43**  
**TD: 18,389'**      **Plane of Proposal: 114.00**

Measured Depth Ft	Drift Angle Deg	Azimuth Direction Deg	Course Length Ft	TVD Ft	Vertical Section Ft	COORDINATES		CLOSURE		Dog Leg Severity Deg/100'	Build / Drop Deg/100'	Left / Right Deg/100'
						N-S Ft	E-W Ft	Distance FT	Direction Deg			
0.00	0.00	0.00		0.0	0.00	0.00	0.00	0.00	0.00			
21.50	0.00	0.00	22	21.5	102.63	0.00	0.00	0.00	#DIV/0!	0.00		
163.50	0.48	331.30	142	163.5	102.16	0.52	-0.29	0.59	331.30	0.34	0.34	233.31
248.50	2.02	36.07	85	248.5	102.19	2.05	0.43	2.09	11.75	2.20	1.81	-347.33
332.50	2.95	345.18	84	332.4	101.14	5.33	0.74	5.38	7.95	2.73	1.11	367.99
417.50	3.21	346.77	85	417.3	98.33	9.76	-0.36	9.77	357.89	0.32	0.31	1.87
501.50	2.86	342.46	84	501.2	95.52	14.05	-1.53	14.13	353.79	0.50	-0.42	-5.13
586.50	2.90	341.93	85	586.1	92.67	18.12	-2.84	18.34	351.10	0.06	0.05	-0.62
670.50	2.86	338.15	84	670.0	89.74	22.08	-4.27	22.49	349.04	0.23	-0.05	-4.50
755.50	2.99	338.15	85	754.8	86.63	26.11	-5.89	26.76	347.29	0.15	0.15	0.00
839.50	2.99	338.24	84	838.7	83.49	30.18	-7.52	31.10	346.01	0.01	0.00	0.11
924.50	2.81	339.91	85	923.6	80.45	34.19	-9.05	35.37	345.17	0.23	-0.21	1.96
1011.50	2.68	332.44	87	1010.5	77.37	38.00	-10.73	39.48	344.23	0.44	-0.15	-8.59
1098.50	3.21	344.65	87	1097.4	74.24	42.15	-12.31	43.91	343.71	0.94	0.61	14.03
1183.50	3.78	353.36	85	1182.2	71.30	47.23	-13.27	49.06	344.31	0.91	0.67	10.25
1267.50	3.47	351.16	84	1266.1	68.51	52.49	-13.98	54.32	345.09	0.40	-0.37	-2.62
1352.50	3.16	351.95	85	1350.9	65.87	57.35	-14.70	59.21	345.62	0.37	-0.36	0.93
1437.50	3.43	351.42	85	1435.8	63.26	62.19	-15.41	64.07	346.08	0.32	0.32	-0.62
1521.50	8.04	349.75	84	1519.4	58.60	70.45	-16.83	72.44	346.57	5.49	5.49	-1.99
1606.50	11.60	354.67	85	1603.1	51.06	84.82	-18.68	86.85	347.58	4.30	4.19	5.79
1690.50	11.34	354.32	84	1685.4	42.84	101.44	-20.28	103.45	348.69	0.32	-0.31	-0.42
1774.50	10.81	353.27	84	1767.9	34.72	117.49	-22.02	119.53	349.38	0.68	-0.63	-1.25
1859.50	12.09	347.12	85	1851.2	25.31	134.08	-24.94	136.38	349.46	2.08	1.51	-7.24
1944.50	12.75	342.37	85	1934.2	13.73	151.70	-29.77	154.59	348.90	1.43	0.78	-5.59
2028.50	12.44	343.78	84	2016.2	1.73	169.22	-35.10	172.82	348.28	0.52	-0.37	1.68
2113.50	13.54	351.42	85	2099.0	-9.54	187.85	-39.15	191.89	348.23	2.40	1.29	8.99
2197.50	12.18	351.86	84	2180.9	-19.55	206.35	-41.87	210.55	348.53	1.62	-1.62	0.52
2282.50	11.60	352.39	85	2264.1	-28.80	223.69	-44.27	228.03	348.81	0.69	-0.68	0.62
2366.50	11.60	349.23	84	2346.3	-38.04	240.36	-46.97	244.91	348.94	0.76	0.00	-3.76
2451.50	13.27	345.18	85	2429.3	-49.03	258.19	-51.06	263.19	348.81	2.22	1.96	-4.76
2535.50	14.07	344.22	84	2511.0	-61.61	277.34	-56.30	282.99	348.52	0.99	0.95	-1.14
2620.50	14.15	345.01	85	2593.4	-74.75	297.31	-61.80	303.67	348.26	0.25	0.09	0.93
2705.50	13.80	345.71	85	2675.9	-87.57	317.17	-66.99	324.17	348.07	0.46	-0.41	0.82
2790.50	13.58	345.27	85	2758.5	-100.10	336.65	-72.03	344.27	347.92	0.29	-0.26	-0.52
2874.50	14.12	345.57	84	2840.0	-112.64	356.11	-77.09	364.36	347.79	0.65	0.64	0.36
2959.50	14.26	345.27	85	2922.4	-125.63	376.28	-82.33	385.18	347.66	0.19	0.16	-0.35
3044.50	14.43	345.27	85	3004.8	-138.81	396.64	-87.69	406.22	347.53	0.20	0.20	0.00
3119.00	11.17	345.41	75	3077.4	-149.12	412.61	-91.87	422.71	347.45	4.38	-4.38	0.19
3214.00	12.40	349.95	95	3170.4	-160.57	431.56	-95.96	442.10	347.46	1.62	1.29	4.78
3309.00	12.84	349.87	95	3263.1	-172.20	451.99	-99.60	462.84	347.57	0.46	0.46	-0.08
3403.00	15.47	348.57	94	3354.3	-185.33	474.57	-103.92	485.81	347.65	2.82	2.80	-1.38
3498.00	16.81	344.83	95	3445.5	-201.36	500.25	-110.03	512.20	347.60	1.78	1.41	-3.94
3593.00	15.27	344.07	95	3536.8	-218.06	525.54	-117.06	538.41	347.44	1.64	-1.62	-0.80
3688.00	14.06	342.93	95	3628.7	-233.67	548.60	-123.88	562.41	347.28	1.31	-1.27	-1.20
3783.00	13.13	342.40	95	3721.1	-248.42	569.91	-130.53	584.67	347.10	0.99	-0.98	-0.56
3878.00	14.32	345.83	95	3813.3	-262.84	591.59	-136.67	607.17	346.99	1.52	1.25	3.61
3973.00	13.18	344.84	95	3905.6	-276.95	613.44	-142.38	629.74	346.93	1.23	-1.20	-1.04
4068.00	13.35	345.92	95	3998.1	-290.55	634.53	-147.88	651.53	346.88	0.32	0.18	1.14
4163.00	12.60	344.48	95	4090.7	-303.91	655.15	-153.32	672.85	346.83	0.86	-0.79	-1.52
4258.00	13.40	350.41	95	4183.2	-316.59	675.99	-157.93	694.19	346.85	1.64	0.84	6.24
4352.00	16.24	354.62	94	4274.1	-329.07	699.82	-160.97	718.10	347.05	3.23	3.02	4.48
4447.00	16.32	354.19	95	4365.3	-342.22	726.33	-163.57	744.52	347.31	0.15	0.08	-0.45
4542.00	13.79	352.96	95	4457.0	-354.70	750.85	-166.31	769.04	347.51	2.68	-2.66	-1.29
4717.57	14.95	354.39	176	4627.1	-376.68	794.15	-171.09	812.37	347.84	0.69	0.66	0.81
4826.00	14.74	347.78	108	4731.9	-391.74	821.56	-175.37	840.07	347.95	1.57	-0.19	-6.10
4921.00	13.95	345.93	95	4823.9	-405.94	844.48	-180.72	863.60	347.92	0.96	-0.83	-1.95
5016.00	12.89	345.28	95	4916.4	-419.63	865.83	-186.19	885.63	347.86	1.13	-1.12	-0.68
5111.00	11.99	344.04	95	5009.1	-432.60	885.57	-191.60	906.06	347.79	0.99	-0.95	-1.31

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						N-S Ft	E-W Ft	Distance FT	Direction Deg			
5205.00	12.33	346.98	94	5101.0	-444.91	904.73	-196.55	925.84	347.74	0.75	0.36	3.13
5300.00	14.53	349.14	95	5193.4	-457.83	926.32	-201.08	947.90	347.75	2.37	2.32	2.27
5395.00	14.87	348.41	95	5285.3	-471.74	949.97	-205.77	972.00	347.78	0.41	0.36	-0.77
5490.00	14.22	348.74	95	5377.3	-485.57	973.35	-210.50	995.85	347.80	0.69	-0.68	0.35
5585.00	15.12	346.86	95	5469.2	-499.79	996.86	-215.59	1019.91	347.80	1.07	0.95	-1.98
5680.00	14.43	345.81	95	5561.0	-514.58	1020.40	-221.31	1044.13	347.76	0.78	-0.73	-1.11
5775.00	13.63	346.36	95	5653.2	-528.74	1042.76	-226.85	1067.15	347.73	0.85	-0.84	0.58
5870.00	12.55	345.32	95	5745.7	-542.03	1063.62	-232.11	1088.65	347.69	1.16	-1.14	-1.09
5965.00	13.26	344.59	95	5838.3	-555.39	1084.11	-237.62	1109.85	347.64	0.77	0.75	-0.77
6059.00	14.13	345.33	94	5929.6	-569.41	1105.60	-243.39	1132.08	347.58	0.94	0.93	0.79
6154.00	12.52	345.40	95	6022.1	-583.08	1126.79	-248.92	1153.95	347.54	1.69	-1.69	0.07
6249.00	14.23	347.03	95	6114.5	-596.52	1148.13	-254.14	1175.92	347.52	1.84	1.80	1.72
6344.00	15.79	345.90	95	6206.3	-611.52	1172.05	-259.91	1200.52	347.50	1.67	1.64	-1.19
6439.00	14.99	345.81	95	6297.8	-627.09	1196.49	-266.07	1225.72	347.46	0.84	-0.84	-0.09
6534.00	14.24	344.82	95	6389.8	-642.07	1219.68	-272.14	1249.67	347.42	0.83	-0.79	-1.04
6629.00	13.34	344.74	95	6482.0	-656.39	1241.53	-278.08	1272.29	347.37	0.95	-0.95	-0.08
6724.00	12.89	343.26	95	6574.6	-670.24	1262.25	-284.02	1293.81	347.32	0.59	-0.47	-1.56
6818.00	15.18	342.60	94	6665.7	-685.22	1284.04	-290.72	1316.54	347.24	2.44	2.44	-0.70
6913.00	16.27	344.43	95	6757.2	-701.93	1308.73	-298.01	1342.23	347.17	1.26	1.15	1.93
7008.00	15.46	349.05	95	6848.6	-717.66	1333.98	-303.99	1368.18	347.16	1.58	-0.85	4.86
7103.00	14.12	349.87	95	6940.4	-731.42	1357.82	-308.44	1392.41	347.20	1.43	-1.41	0.86
7198.00	13.07	349.65	95	7032.8	-743.98	1379.80	-312.40	1414.72	347.24	1.11	-1.11	-0.23
7293.00	12.53	357.44	95	7125.4	-754.65	1400.66	-314.79	1435.60	347.33	1.90	-0.57	8.20
7388.00	11.34	9.96	95	7218.4	-761.52	1420.16	-313.64	1454.38	347.55	2.99	-1.25	-365.77
7483.00	9.84	25.51	95	7311.8	-763.58	1436.69	-308.53	1469.44	347.88	3.38	-1.58	16.37
7577.00	8.48	43.07	94	7404.6	-761.10	1449.00	-300.33	1479.80	348.29	3.29	-1.45	18.68
7672.00	7.45	63.89	95	7498.7	-754.86	1456.83	-290.02	1485.42	348.74	3.20	-1.08	21.92
7767.00	6.74	79.00	95	7593.0	-746.34	1460.61	-279.01	1487.02	349.19	2.09	-0.75	15.91
7862.00	7.88	95.02	95	7687.2	-735.62	1461.10	-267.05	1485.30	349.64	2.45	1.20	16.86
7957.00	10.18	110.89	95	7781.0	-721.07	1457.54	-252.72	1479.28	350.16	3.55	2.42	16.71
8051.00	16.02	116.14	94	7872.5	-699.79	1448.85	-233.29	1467.51	350.85	6.33	6.21	5.59
8146.00	25.94	124.23	95	7961.2	-666.16	1431.34	-204.27	1445.84	351.88	10.85	10.44	8.52
8241.00	39.06	123.16	95	8041.1	-615.94	1403.16	-161.85	1412.46	353.42	13.82	13.81	-1.13
8336.00	52.01	117.24	95	8107.5	-548.70	1369.49	-103.23	1373.38	355.69	14.33	13.63	-6.23
8430.00	63.68	118.09	94	8157.5	-469.42	1332.57	-32.89	1332.98	358.59	12.44	12.41	0.90
8525.00	78.49	117.79	95	8188.2	-380.01	1290.59	46.29	1291.42	2.05	15.59	15.59	-0.32
8620.00	88.10	119.23	95	8199.3	-286.07	1245.60	129.10	1252.27	5.92	10.23	10.12	1.52
8715.00	86.60	118.14	95	8203.7	-191.49	1200.05	212.34	1218.69	10.03	1.95	-1.58	-1.15
8810.00	89.12	119.33	95	8207.2	-96.89	1154.42	295.58	1191.65	14.36	2.93	2.65	1.25
8905.00	89.94	119.19	95	8208.0	-2.29	1107.98	378.45	1170.84	18.86	0.88	0.86	-0.15
9000.00	89.75	115.42	95	8208.2	92.53	1064.41	462.85	1160.69	23.50	3.97	-0.20	-3.97
9094.00	87.36	114.11	94	8210.6	186.48	1025.05	548.17	1162.42	28.14	2.90	-2.54	-1.39
9189.00	86.95	113.96	95	8215.3	281.37	986.41	634.83	1173.03	32.76	0.46	-0.43	-0.16
9284.00	86.60	113.96	95	8220.7	376.22	947.89	721.51	1191.24	37.28	0.37	-0.37	0.00
9379.00	86.03	113.83	95	8226.8	471.02	909.49	808.18	1216.69	41.62	0.62	-0.60	-0.14
9474.00	88.42	114.22	95	8231.4	565.90	870.86	894.84	1248.65	45.78	2.55	2.52	0.41
9569.00	88.66	114.16	95	8233.8	660.87	831.94	981.47	1286.63	49.71	0.26	0.25	-0.06
9664.00	89.13	115.05	95	8235.6	755.85	792.40	1067.83	1329.72	53.42	1.06	0.49	0.94
9759.00	89.51	115.60	95	8236.8	850.81	751.76	1153.69	1377.01	56.91	0.70	0.40	0.58
9853.00	89.03	115.13	94	8238.0	944.78	711.50	1238.63	1428.43	60.13	0.71	-0.51	-0.50
9948.00	88.90	115.58	95	8239.7	1039.74	670.82	1324.46	1484.65	63.14	0.49	-0.14	0.47
10043.00	89.18	117.50	95	8241.3	1134.62	628.38	1409.43	1543.17	65.97	2.04	0.29	2.02
10138.00	89.42	117.35	95	8242.4	1229.45	584.63	1493.75	1604.08	68.63	0.30	0.25	-0.16
10233.00	89.91	117.07	95	8243.0	1324.30	541.19	1578.24	1668.45	71.07	0.59	0.52	-0.29
10328.00	89.78	115.71	95	8243.2	1419.21	498.97	1663.33	1736.56	73.30	1.44	-0.14	-1.43
10422.00	90.14	116.05	94	8243.3	1513.16	457.94	1747.91	1806.90	75.32	0.53	0.38	0.36
10517.00	87.69	115.53	95	8245.1	1608.09	416.62	1833.42	1880.16	77.20	2.64	-2.58	-0.55
10612.00	87.61	116.53	95	8249.0	1702.95	374.96	1918.71	1955.01	78.94	1.06	-0.08	1.05

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10707.00	87.06	115.76	95	8253.4	1797.78	333.15	2003.90	2031.40	80.56	1.00	-0.58	-0.81
10802.00	86.64	115.86	95	8258.6	1892.59	291.85	2089.29	2109.58	82.05	0.45	-0.44	0.11
10897.00	86.14	115.18	95	8264.6	1987.36	251.00	2174.85	2189.29	83.42	0.89	-0.53	-0.72
10991.00	88.06	115.15	94	8269.4	2081.22	211.08	2259.82	2269.65	84.66	2.04	2.04	-0.03
11086.00	87.89	115.93	95	8272.7	2176.13	170.15	2345.48	2351.64	85.85	0.84	-0.18	0.82
11181.00	89.64	114.49	95	8274.8	2271.08	129.70	2431.41	2434.86	86.95	2.39	1.84	-1.52
11276.00	88.64	113.59	95	8276.2	2366.06	91.00	2518.15	2519.80	87.93	1.42	-1.05	-0.95
11371.00	89.14	112.63	95	8278.0	2461.03	53.72	2605.51	2606.07	88.82	1.14	0.53	-1.01
11465.00	89.37	112.92	94	8279.3	2555.00	17.34	2692.18	2692.23	89.63	0.39	0.24	0.31
11560.00	89.97	114.75	95	8279.8	2650.00	-21.05	2779.07	2779.15	90.43	2.03	0.63	1.93
11655.00	89.54	113.74	95	8280.2	2744.99	-60.06	2865.69	2866.32	91.20	1.16	-0.45	-1.06
11750.00	90.05	114.33	95	8280.6	2839.99	-98.75	2952.45	2954.10	91.92	0.82	0.54	0.62
11844.00	90.22	114.44	94	8280.3	2933.99	-137.56	3038.06	3041.18	92.59	0.22	0.18	0.12
11939.00	89.87	113.78	95	8280.3	3028.99	-176.37	3124.78	3129.75	93.23	0.79	-0.37	-0.69
12034.00	90.56	115.12	95	8279.9	3123.98	-215.69	3211.25	3218.49	93.84	1.59	0.73	1.41
12129.00	91.48	116.16	95	8278.2	3218.93	-256.79	3296.88	3306.87	94.45	1.46	0.97	1.09
12224.00	91.92	116.86	95	8275.4	3313.79	-299.17	3381.86	3395.06	95.06	0.87	0.46	0.74
12319.00	91.61	116.29	95	8272.5	3408.65	-341.65	3466.78	3483.57	95.63	0.68	-0.33	-0.60
12414.00	90.98	113.73	95	8270.3	3503.60	-381.80	3552.84	3573.30	96.13	2.77	-0.66	-2.69
12509.00	87.20	107.82	95	8271.8	3598.38	-415.47	3641.60	3665.22	96.51	7.38	-3.98	-6.22
12604.00	86.80	99.17	95	8276.8	3691.57	-437.59	3733.76	3759.31	96.68	9.10	-0.42	-9.11
12698.00	88.54	94.78	94	8280.6	3781.35	-448.99	3826.96	3853.21	96.69	5.02	1.85	-4.67
12793.00	90.86	82.97	95	8281.1	3867.20	-447.13	3921.77	3947.17	96.50	12.67	2.44	-12.43
12888.00	89.86	72.17	95	8280.5	3943.52	-426.71	4014.40	4037.01	96.07	11.42	-1.05	-11.37
12983.00	86.08	59.75	95	8283.9	4006.88	-388.13	4100.92	4119.25	95.41	13.66	-3.98	-13.07
13078.00	86.76	45.63	95	8289.9	4052.27	-330.80	4176.14	4189.22	94.53	14.85	0.72	-14.86
13173.00	89.05	34.77	95	8293.4	4078.71	-258.40	4237.32	4245.19	93.49	11.67	2.41	-11.43
13268.00	91.87	24.64	95	8292.6	4088.14	-176.00	4284.33	4287.94	92.35	11.07	2.97	-10.66
13363.00	91.69	14.97	95	8289.6	4081.21	-86.77	4316.46	4317.33	91.15	10.18	-0.19	-10.18
13458.00	91.02	8.17	95	8287.4	4060.77	6.22	4335.50	4335.50	89.92	7.19	-0.71	-7.16
13552.00	92.20	356.96	94	8284.7	4026.49	99.93	4339.70	4340.85	88.68	11.99	1.26	371.05
13647.00	90.31	344.31	95	8282.7	3974.36	193.45	4324.27	4328.60	87.44	13.46	-1.99	-13.32
13742.00	90.59	335.00	95	8281.9	3908.04	282.42	4291.28	4300.56	86.23	9.80	0.29	-9.80
13837.00	91.16	329.39	95	8280.5	3833.41	366.41	4246.99	4262.77	85.07	5.93	0.60	-5.91
13932.00	91.88	321.75	95	8277.9	3752.56	444.68	4193.34	4216.85	83.95	8.07	0.76	-8.04
14027.00	91.75	313.40	95	8274.9	3665.61	514.71	4129.33	4161.29	82.89	8.79	-0.14	-8.79
14121.00	90.79	302.03	94	8272.8	3574.47	572.10	4055.12	4095.27	81.97	12.14	-1.02	-12.10
14216.00	90.65	299.00	95	8271.6	3480.10	620.33	3973.29	4021.42	81.13	3.19	-0.15	-3.19
14311.00	91.44	299.55	95	8269.9	3385.52	666.78	3890.44	3947.16	80.27	1.01	0.83	0.58
14406.00	91.12	296.96	95	8267.8	3290.81	711.73	3806.78	3872.75	79.41	2.75	-0.34	-2.73
14501.00	91.24	296.28	95	8265.8	3195.93	754.29	3721.87	3797.54	78.54	0.73	0.13	-0.72
14596.00	91.33	295.29	95	8263.7	3101.00	795.61	3636.35	3722.37	77.66	1.05	0.09	-1.04
14691.00	92.19	293.26	95	8260.8	3006.05	834.64	3549.80	3646.60	76.77	2.32	0.91	-2.14
14786.00	90.23	290.50	95	8258.8	2911.15	870.03	3461.68	3569.33	75.89	3.56	-2.06	-2.91
14880.00	90.89	293.15	94	8257.8	2817.24	904.97	3374.43	3493.67	74.99	2.91	0.70	2.82
14975.00	92.09	296.79	95	8255.4	2722.30	945.05	3288.35	3421.46	73.97	4.03	1.26	3.83
15070.00	92.74	298.92	95	8251.4	2627.60	989.40	3204.44	3353.70	72.84	2.34	0.68	2.24
15165.00	91.35	297.51	95	8248.0	2532.93	1034.28	3120.78	3287.71	71.66	2.08	-1.46	-1.48
15260.00	90.19	297.28	95	8246.7	2438.10	1077.99	3036.45	3222.12	70.45	1.24	-1.22	-0.24
15355.00	90.18	296.90	95	8246.4	2343.24	1121.25	2951.87	3157.65	69.20	0.40	-0.01	-0.40
15450.00	89.95	297.23	95	8246.3	2248.38	1164.48	2867.27	3094.71	67.90	0.42	-0.24	0.35
15544.00	89.88	297.99	94	8246.4	2154.57	1208.04	2783.98	3034.78	66.54	0.81	-0.07	0.81
15639.00	90.73	297.80	95	8245.9	2059.79	1252.48	2700.02	2976.38	65.11	0.92	0.89	-0.20
15734.00	91.68	298.54	95	8243.9	1965.06	1297.32	2616.29	2920.28	63.62	1.27	1.00	0.78
15829.00	93.24	298.60	95	8239.8	1870.45	1342.71	2532.94	2866.82	62.07	1.64	1.64	0.06
15924.00	93.06	298.09	95	8234.6	1775.87	1387.75	2449.45	2815.26	60.47	0.57	-0.19	-0.54
16019.00	92.86	298.34	95	8229.7	1681.25	1432.60	2365.85	2765.79	58.80	0.34	-0.21	0.26
16114.00	92.42	298.36	95	8225.3	1586.63	1477.66	2282.34	2718.92	57.08	0.46	-0.46	0.02

## Minimum Radius of Curvature

**API: 42-479-44609**      **Well: Gates 010-CHK-A TR3 O 2H**      **Wellhead Location N+/S- : 28.042478**  
**Operator: Chesapeake Energy**      **Area: Eagleford**      **E+/W- : -99.856962**  
**Rig: Nabors 887**      **Type: U-Lateral**      **Magnetic Declination: 4.43**  
**TD: 18,389'**      **Plane of Proposal: 114.00**

Measured Depth Ft	Drift Angle Deg	Azimuth Direction Deg	Course Length Ft	TVD Ft	Vertical Section Ft	COORDINATES		CLOSURE		Dog Leg Severity Deg/100'	Build / Drop Deg/100'	Left / Right Deg/100'
						N-S Ft	E-W Ft	Distance FT	Direction Deg			
16209.00	91.73	298.02	95	8221.9	1491.94	1522.51	2198.66	2674.35	55.30	0.81	-0.73	-0.36
16304.00	92.11	295.38	95	8218.7	1397.11	1565.17	2113.85	2630.23	53.48	2.81	0.40	-2.78
16399.00	91.88	295.42	95	8215.4	1302.20	1605.89	2028.08	2586.89	51.63	0.25	-0.24	0.04
16494.00	91.42	295.02	95	8212.7	1207.26	1646.36	1942.17	2546.08	49.71	0.64	-0.48	-0.42
16588.00	91.14	294.07	94	8210.6	1113.29	1685.39	1856.69	2507.56	47.77	1.05	-0.30	-1.01
16683.00	92.63	294.16	95	8207.5	1018.34	1724.19	1770.03	2471.00	45.75	1.57	1.57	0.09
16778.00	90.53	291.93	95	8204.8	923.40	1761.35	1682.65	2435.92	43.69	3.22	-2.21	-2.35
16873.00	91.87	294.66	95	8202.8	828.44	1798.91	1595.43	2404.47	41.57	3.20	1.41	2.87
16968.00	92.33	296.51	95	8199.4	733.55	1839.91	1509.80	2380.08	39.37	2.01	0.48	1.95
17063.00	90.99	294.31	95	8196.6	638.62	1880.65	1424.04	2358.97	37.13	2.71	-1.41	-2.32
17158.00	92.20	296.52	95	8194.0	543.70	1921.40	1338.27	2341.53	34.86	2.65	1.27	2.33
17253.00	91.13	295.40	95	8191.2	448.80	1962.97	1252.89	2328.73	32.55	1.63	-1.13	-1.18
17348.00	92.07	295.85	95	8188.6	353.87	2004.04	1167.27	2319.20	30.22	1.10	0.99	0.47
17442.00	92.19	295.45	94	8185.1	259.98	2044.70	1082.60	2313.61	27.90	0.44	0.13	-0.43
17537.00	91.90	295.42	95	8181.7	165.07	2085.47	996.86	2311.48	25.55	0.31	-0.31	-0.03
17631.00	91.56	295.45	94	8178.8	71.14	2125.83	912.01	2313.20	23.22	0.36	-0.36	0.03
17726.00	92.90	298.17	95	8175.1	-23.66	2168.64	827.29	2321.08	20.88	3.19	1.41	2.86
17820.00	93.30	298.48	94	8170.1	-117.26	2213.17	744.67	2335.09	18.60	0.54	0.43	0.33
17915.00	89.72	295.87	95	8167.5	-212.06	2256.53	660.21	2351.13	16.31	4.66	-3.77	-2.75
18009.00	88.42	294.70	94	8169.1	-306.02	2296.67	575.23	2367.61	14.06	1.86	-1.38	-1.24
18104.00	90.00	297.03	95	8170.4	-400.95	2338.11	489.76	2388.85	11.83	2.96	1.66	2.45
18199.00	92.17	299.11	95	8168.6	-495.68	2382.80	405.96	2417.13	9.67	3.16	2.28	2.19
18294.00	92.24	299.44	95	8164.9	-590.21	2429.22	323.15	2450.62	7.58	0.35	0.07	0.35
18389.00	91.41	299.58	95	8161.9	-684.72	2475.99	240.52	2487.65	5.55	0.89	-0.87	0.15