

Minimum Radius of Curvature

API: 42-283-37267 **Well: Meek Waitz Unit LAS 2H** **Wellhead Location N+/S- : 28.451394**
Operator: Chesapeake Energy **Area: Eagleford** **E+/W- : -99.355208**
Rig: Cactus 144 **Type: U-Lateral** **Magnetic Declination: 4.12**
TD: 18,747' **Plane of Proposal: 273.00**

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			
58.00	0.18	0.89	58	58.0	-100.70	0.09	0.00	0.09	0.89	0.31	0.31	1.53
145.00	0.45	1.39	87	145.0	-100.69	0.57	0.01	0.57	1.19	0.31	0.31	0.57
240.00	1.50	194.70	95	240.0	-100.43	-0.26	-0.29	0.39	228.52	2.04	1.11	203.48
334.00	1.69	189.75	94	334.0	-100.02	-2.82	-0.84	2.94	196.64	0.25	0.20	-5.27
523.00	3.31	193.46	189	522.8	-98.70	-10.87	-2.58	11.17	193.37	0.86	0.86	1.96
617.00	3.94	190.48	94	616.6	-97.78	-16.69	-3.80	17.11	192.84	0.70	0.67	-3.17
712.00	4.16	189.90	95	711.3	-96.94	-23.29	-4.99	23.82	192.09	0.24	0.23	-0.61
901.00	1.62	207.85	189	900.1	-95.00	-32.41	-7.42	33.24	192.89	1.41	-1.34	9.50
995.00	2.47	203.45	94	994.0	-93.73	-35.44	-8.84	36.53	194.01	0.92	0.90	-4.68
1090.00	5.89	193.00	95	1088.8	-92.17	-42.07	-10.75	43.42	194.34	3.67	3.60	-11.00
1183.00	9.44	186.61	93	1180.9	-90.86	-54.30	-12.71	55.77	193.17	3.92	3.82	-6.87
1277.00	12.56	184.11	94	1273.2	-90.18	-72.15	-14.33	73.56	191.23	3.36	3.32	-2.66
1371.00	14.45	183.58	94	1364.6	-89.86	-94.06	-15.79	95.37	189.53	2.01	2.01	-0.56
1466.00	14.42	182.82	95	1456.6	-89.78	-117.70	-17.11	118.94	188.27	0.20	-0.03	-0.80
1560.00	13.89	182.21	94	1547.7	-89.97	-140.67	-18.12	141.83	187.34	0.59	-0.56	-0.65
1654.00	14.36	184.49	94	1638.9	-89.82	-163.56	-19.47	164.72	186.79	0.77	0.50	2.43
1749.00	16.98	188.50	95	1730.3	-88.19	-189.03	-22.45	190.36	186.77	2.98	2.76	4.22
1843.00	20.57	190.36	94	1819.3	-84.75	-218.86	-27.45	220.57	187.15	3.87	3.82	1.98
1937.00	21.57	192.04	94	1907.0	-79.92	-252.00	-34.02	254.29	187.69	1.24	1.06	1.79
2032.00	21.63	191.89	95	1995.4	-74.47	-286.22	-41.27	289.18	188.21	0.09	0.06	-0.16
2220.00	20.08	191.51	188	2171.1	-64.34	-351.75	-54.85	356.00	188.86	0.83	-0.82	-0.20
2314.00	19.74	191.38	94	2259.4	-59.64	-383.12	-61.20	387.98	189.08	0.36	-0.36	-0.14
2409.00	18.95	191.62	95	2349.1	-54.99	-413.96	-67.47	419.42	189.26	0.84	-0.83	0.25
2502.00	17.51	190.86	93	2437.4	-50.81	-442.49	-73.15	448.50	189.39	1.57	-1.55	-0.82
2592.00	16.56	190.74	90	2523.4	-47.24	-468.39	-78.09	474.86	189.47	1.06	-1.06	-0.13
2682.00	15.82	190.84	90	2609.9	-43.83	-493.04	-82.79	499.95	189.53	0.82	-0.82	0.11
2801.00	15.40	191.53	119	2724.5	-39.28	-524.46	-89.00	531.95	189.63	0.39	-0.35	0.58
2905.00	15.37	191.69	104	2824.8	-35.15	-551.48	-94.55	559.53	189.73	0.05	-0.03	0.15
2998.00	18.75	188.04	93	2913.7	-31.97	-578.36	-99.14	586.80	189.73	3.81	3.63	-3.92
3093.00	21.38	190.02	95	3002.9	-28.51	-610.54	-104.29	619.38	189.69	2.86	2.77	2.08
3187.00	20.57	189.63	94	3090.7	-24.51	-643.69	-110.03	653.03	189.70	0.87	-0.86	-0.41
3281.00	20.15	189.83	94	3178.8	-20.68	-675.93	-115.56	685.73	189.70	0.45	-0.45	0.21
3376.00	23.04	186.36	95	3267.1	-17.64	-710.53	-120.42	720.66	189.62	3.32	3.04	-3.65
3469.00	23.26	185.98	93	3352.6	-15.62	-746.88	-124.34	757.16	189.45	0.29	0.24	-0.41
3563.00	22.61	185.61	94	3439.2	-13.84	-783.33	-128.04	793.72	189.28	0.71	-0.69	-0.39
3657.00	22.31	186.09	94	3526.1	-12.05	-819.05	-131.70	829.57	189.14	0.37	-0.32	0.51
3752.00	21.15	187.06	95	3614.3	-9.86	-853.99	-135.72	864.71	189.03	1.28	-1.22	1.02
3846.00	22.25	186.28	94	3701.6	-7.65	-888.51	-139.75	899.43	188.94	1.21	1.17	-0.83
3941.00	20.36	183.80	95	3790.2	-6.39	-922.88	-142.82	933.87	188.80	2.20	-1.99	-2.61
4035.00	17.23	179.97	94	3879.1	-6.89	-953.13	-143.89	963.93	188.59	3.58	-3.33	-4.07
4129.00	14.31	174.05	94	3969.6	-9.44	-978.61	-142.68	988.96	188.30	3.54	-3.11	-6.30
4224.00	14.64	177.60	95	4061.6	-12.39	-1002.28	-140.96	1012.15	188.01	1.00	0.35	3.74
4318.00	16.94	180.68	94	4152.0	-14.07	-1027.85	-140.63	1037.43	187.79	2.60	2.45	3.28
4413.00	20.28	185.98	95	4242.1	-13.77	-1058.07	-142.51	1067.63	187.67	3.94	3.52	5.58
4506.00	22.85	188.95	93	4328.5	-11.06	-1091.95	-147.00	1101.80	187.67	3.00	2.76	3.19
4601.00	22.47	188.70	95	4416.2	-7.35	-1128.11	-152.61	1138.39	187.70	0.41	-0.40	-0.26
4695.00	20.33	193.93	94	4503.7	-2.46	-1161.73	-159.26	1172.59	187.81	3.05	-2.28	5.56
4789.00	16.88	193.70	94	4592.8	3.17	-1190.84	-166.43	1202.42	187.96	3.67	-3.67	-0.24
4884.00	17.97	198.19	95	4683.4	9.57	-1218.17	-174.27	1230.57	188.14	1.82	1.15	4.73
4978.00	16.99	196.25	94	4773.1	16.52	-1245.13	-182.64	1258.45	188.34	1.21	-1.04	-2.06
5072.00	18.53	194.96	94	4862.6	22.76	-1272.75	-190.34	1286.90	188.51	1.69	1.64	-1.37
5166.00	21.74	195.97	94	4950.9	29.76	-1303.92	-198.99	1319.02	188.68	3.43	3.41	1.07
5261.00	23.05	197.00	95	5038.7	38.21	-1338.62	-209.27	1354.88	188.89	1.44	1.38	1.08
5355.00	19.78	196.90	94	5126.2	46.49	-1371.45	-219.27	1388.87	189.08	3.48	-3.48	-0.11
5449.00	16.49	195.04	94	5215.5	53.09	-1399.56	-227.36	1417.91	189.23	3.55	-3.50	-1.98
5543.00	16.46	190.91	94	5305.7	57.71	-1425.52	-233.34	1444.49	189.30	1.25	-0.03	-4.39
5638.00	13.08	188.18	95	5397.5	60.53	-1449.38	-237.42	1468.70	189.30	3.63	-3.56	-2.87

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						N-S Ft	E-W Ft	Distance FT	Direction Deg			
5732.00	14.09	185.34	94	5488.9	61.96	-1471.30	-240.00	1490.75	189.26	1.29	1.07	-3.02
5826.00	21.24	185.15	94	5578.4	63.07	-1499.69	-242.60	1519.19	189.19	7.61	7.61	-0.20
5920.00	23.62	187.32	94	5665.3	65.12	-1535.33	-246.52	1555.00	189.12	2.68	2.53	2.31
6014.00	23.34	188.76	94	5751.5	68.41	-1572.42	-251.76	1592.44	189.10	0.68	-0.30	1.53
6109.00	21.80	188.16	95	5839.2	71.89	-1608.48	-257.13	1628.90	189.08	1.64	-1.62	-0.63
6203.00	21.85	186.04	94	5926.5	74.38	-1643.15	-261.45	1663.82	189.04	0.84	0.05	-2.26
6298.00	20.42	186.68	95	6015.1	76.39	-1677.19	-265.24	1698.04	188.99	1.52	-1.51	0.67
6391.00	23.01	188.28	93	6101.5	79.10	-1711.30	-269.74	1732.43	188.96	2.86	2.78	1.72
6486.00	27.27	187.99	95	6187.5	82.70	-1751.25	-275.44	1772.78	188.94	4.49	4.48	-0.31
6580.00	26.56	187.29	94	6271.3	86.15	-1793.42	-281.10	1815.31	188.91	0.83	-0.76	-0.74
6674.00	24.95	186.21	94	6355.9	88.83	-1833.98	-285.91	1856.13	188.86	1.78	-1.71	-1.15
6768.00	23.61	185.20	94	6441.6	90.66	-1872.43	-289.77	1894.72	188.80	1.49	-1.43	-1.07
6863.00	21.23	184.19	95	6529.4	91.75	-1908.54	-292.75	1930.86	188.72	2.54	-2.51	-1.06
6956.00	21.54	188.76	93	6616.0	93.82	-1942.21	-296.58	1964.72	188.68	1.82	0.33	4.91
7051.00	21.19	188.68	95	6704.5	97.27	-1976.42	-301.82	1999.33	188.68	0.37	-0.37	-0.08
7145.00	17.94	196.92	94	6793.1	102.43	-2007.08	-308.60	2030.66	188.74	4.53	-3.46	8.77
7239.00	15.09	199.41	94	6883.2	109.37	-2032.47	-316.89	2057.03	188.86	3.12	-3.03	2.65
7334.00	14.84	187.20	95	6975.0	113.76	-2056.21	-322.52	2081.35	188.91	3.32	-0.26	-12.85
7428.00	14.99	184.79	94	7065.8	115.02	-2080.27	-325.05	2105.51	188.88	0.68	0.16	-2.56
7523.00	13.91	187.85	95	7157.8	116.37	-2103.82	-327.63	2129.18	188.85	1.39	-1.14	3.22
7617.00	15.21	184.63	94	7248.8	117.67	-2127.31	-330.17	2152.78	188.82	1.63	1.38	-3.43
7711.00	14.82	184.53	94	7339.6	118.35	-2151.58	-332.12	2177.07	188.77	0.42	-0.41	-0.11
7806.00	14.04	192.79	95	7431.6	120.63	-2174.94	-335.63	2200.68	188.77	2.31	-0.82	8.69
7900.00	16.78	219.05	94	7522.3	130.57	-2196.62	-346.71	2223.82	188.97	7.89	2.91	27.94
7995.00	24.21	243.72	95	7611.4	155.71	-2215.96	-372.90	2247.12	189.55	11.84	7.82	25.97
8089.00	29.35	258.51	94	7695.4	194.89	-2229.11	-412.83	2267.01	190.49	8.92	5.47	15.73
8183.00	35.36	263.72	94	7774.8	244.10	-2236.68	-462.50	2283.99	191.68	7.04	6.39	5.54
8278.00	42.34	263.85	95	7848.7	302.88	-2243.12	-521.70	2302.99	193.09	7.35	7.35	0.14
8372.00	51.17	263.57	94	7913.1	370.39	-2250.63	-589.69	2326.60	194.68	9.40	9.39	-0.30
8467.00	59.30	256.95	95	7967.2	446.33	-2264.03	-666.44	2360.07	196.40	10.29	8.56	-6.97
8561.00	62.70	252.95	94	8012.8	524.55	-2285.41	-745.79	2404.02	198.07	5.19	3.62	-4.26
8574.00	64.18	252.26	13	8018.6	535.35	-2288.89	-756.88	2410.78	198.30	12.33	11.38	-5.31
8587.00	65.51	251.25	13	8024.1	546.31	-2292.57	-768.06	2417.81	198.52	12.41	10.23	-7.77
8600.00	66.71	250.66	13	8029.4	557.33	-2296.45	-779.29	2425.07	198.74	10.12	9.23	-4.54
8613.00	68.45	249.92	13	8034.4	568.41	-2300.50	-790.60	2432.56	198.97	14.38	13.38	-5.69
8626.00	69.58	248.34	13	8039.0	579.51	-2304.83	-801.95	2440.36	199.18	14.29	8.69	-12.15
8639.00	70.96	247.98	13	8043.4	590.62	-2309.38	-813.30	2448.41	199.40	10.93	10.62	-2.77
8652.00	72.04	247.05	13	8047.5	601.75	-2314.09	-824.69	2456.65	199.61	10.73	8.31	-7.15
8746.00	89.69	250.25	94	8062.4	685.98	-2347.68	-910.80	2518.17	201.20	19.07	18.78	3.40
8841.00	93.07	254.21	95	8060.1	774.75	-2376.66	-1001.21	2578.94	202.84	5.48	3.56	4.17
8935.00	94.18	255.35	94	8054.2	863.85	-2401.29	-1091.73	2637.81	204.45	1.69	1.18	1.21
9029.00	92.42	257.02	94	8048.8	953.68	-2423.70	-1182.85	2696.93	206.01	2.58	-1.87	1.78
9124.00	93.11	257.24	95	8044.2	1044.95	-2444.83	-1275.36	2757.49	207.55	0.76	0.73	0.23
9220.00	92.83	258.97	96	8039.2	1137.60	-2464.59	-1369.17	2819.37	209.05	1.82	-0.29	1.80
9315.00	91.29	259.31	95	8035.8	1229.77	-2482.48	-1462.40	2881.20	210.50	1.66	-1.62	0.36
9409.00	89.33	262.02	94	8035.3	1321.58	-2497.72	-1555.14	2942.29	211.91	3.56	-2.09	2.88
9503.00	89.28	264.75	94	8036.4	1414.25	-2508.55	-1648.50	3001.73	213.31	2.90	-0.05	2.90
9598.00	87.99	268.02	95	8038.7	1508.57	-2514.54	-1743.27	3059.72	214.73	3.70	-1.36	3.44
9692.00	90.05	269.85	94	8040.3	1602.31	-2516.28	-1837.23	3115.62	216.13	2.93	2.19	1.95
9786.00	91.57	270.21	94	8039.0	1696.18	-2516.23	-1931.22	3171.91	217.51	1.66	1.62	0.38
9881.00	92.17	270.61	95	8035.9	1791.03	-2515.55	-2026.17	3230.07	218.85	0.76	0.63	0.42
9975.00	91.25	267.47	94	8033.1	1884.75	-2517.13	-2120.10	3291.01	220.11	3.48	-0.98	-3.34
10067.00	88.94	259.65	92	8032.9	1975.43	-2527.44	-2211.44	3358.34	221.19	8.86	-2.51	-8.50
10161.00	87.57	255.87	94	8035.8	2066.06	-2547.35	-2303.24	3434.23	222.12	4.28	-1.46	-4.02
10256.00	88.67	251.91	95	8038.9	2155.76	-2573.70	-2394.44	3515.29	222.93	4.32	1.16	-4.17
10350.00	88.52	247.96	94	8041.2	2242.20	-2605.93	-2482.69	3599.25	223.61	4.20	-0.16	-4.20
10445.00	88.22	247.17	95	8043.9	2327.96	-2642.17	-2570.47	3686.24	224.21	0.89	-0.32	-0.83
10539.00	91.09	245.23	94	8044.5	2411.84	-2680.10	-2656.46	3773.55	224.75	3.69	3.05	-2.06

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10633.00	90.41	241.17	94	8043.2	2493.39	-2722.47	-2740.34	3862.81	225.19	4.38	-0.72	-4.32
10727.00	91.56	234.32	94	8041.6	2570.09	-2772.59	-2819.77	3954.54	225.48	7.39	1.22	-7.29
10822.00	91.22	232.14	95	8039.3	2643.08	-2829.44	-2895.84	4048.66	225.66	2.32	-0.36	-2.29
10916.00	90.27	231.15	94	8038.1	2713.64	-2887.77	-2969.55	4142.15	225.80	1.46	-1.01	-1.05
11010.00	91.61	231.61	94	8036.5	2783.90	-2946.43	-3042.98	4235.70	225.92	1.51	1.43	0.49
11105.00	93.08	232.03	95	8032.7	2855.33	-3005.10	-3117.59	4330.13	226.05	1.61	1.55	0.44
11199.00	94.20	232.38	94	8026.7	2926.35	-3062.59	-3191.72	4423.41	226.18	1.25	1.19	0.37
11293.00	91.39	234.87	94	8022.1	2998.92	-3118.26	-3267.30	4516.50	226.34	3.99	-2.99	2.65
11387.00	87.19	243.01	94	8023.3	3076.70	-3166.70	-3347.73	4608.18	226.59	9.74	-4.47	8.66
11482.00	90.15	254.03	95	8025.5	3163.00	-3201.42	-3435.96	4696.27	227.02	12.01	3.12	11.60
11576.00	90.78	263.46	94	8024.7	3254.00	-3219.74	-3528.05	4776.39	227.62	10.05	0.67	10.03
11670.00	89.74	270.96	94	8024.3	3347.45	-3224.32	-3621.87	4849.14	228.32	8.05	-1.11	7.98
11765.00	91.02	274.01	95	8023.7	3442.43	-3220.20	-3716.76	4917.72	229.09	3.48	1.35	3.21
11859.00	88.65	274.72	94	8023.9	3536.39	-3213.04	-3810.48	4984.32	229.86	2.63	-2.52	0.76
11952.00	86.67	275.97	93	8027.7	3629.23	-3204.39	-3902.99	5049.90	230.61	2.52	-2.13	1.34
12045.00	85.57	275.99	93	8034.0	3721.89	-3194.72	-3995.28	5115.51	231.35	1.18	-1.18	0.02
12139.00	84.34	275.88	94	8042.3	3815.40	-3185.04	-4088.41	5182.62	232.08	1.31	-1.31	-0.12
12231.00	85.73	276.67	92	8050.3	3906.91	-3175.02	-4179.51	5248.72	232.78	1.74	1.51	0.86
12325.00	86.76	276.94	94	8056.4	4000.50	-3163.91	-4272.65	5316.56	233.48	1.13	1.10	0.29
12419.00	88.09	276.41	94	8060.6	4094.21	-3152.99	-4365.91	5385.40	234.16	1.52	1.41	-0.56
12513.00	88.66	275.61	94	8063.3	4188.04	-3143.16	-4459.36	5455.76	234.82	1.04	0.61	-0.85
12606.00	90.17	274.28	93	8064.2	4280.97	-3135.14	-4552.00	5527.19	235.44	2.16	1.62	-1.43
12699.00	89.61	275.11	93	8064.4	4373.93	-3127.53	-4644.69	5599.51	236.05	1.08	-0.60	0.89
12793.00	89.44	274.75	94	8065.2	4467.88	-3119.45	-4738.34	5672.99	236.64	0.42	-0.18	-0.38
12887.00	89.66	269.83	94	8065.9	4561.84	-3115.70	-4832.23	5749.61	237.19	5.24	0.23	-5.23
12980.00	88.81	267.86	93	8067.2	4654.58	-3117.57	-4925.20	5828.96	237.67	2.31	-0.91	-2.12
13074.00	91.13	269.84	94	8067.2	4748.32	-3119.46	-5019.17	5909.57	238.14	3.24	2.47	2.11
13168.00	91.02	269.74	94	8065.5	4842.16	-3119.80	-5113.15	5989.78	238.61	0.16	-0.12	-0.11
13262.00	91.17	268.87	94	8063.7	4935.94	-3120.94	-5207.12	6070.78	239.06	0.94	0.16	-0.93
13356.00	91.04	268.92	94	8061.9	5029.68	-3122.75	-5301.09	6152.49	239.50	0.15	-0.14	0.05
13450.00	92.09	270.04	94	8059.3	5123.47	-3123.61	-5395.05	6234.06	239.93	1.63	1.12	1.19
13544.00	91.62	270.14	94	8056.3	5217.30	-3123.46	-5489.00	6315.46	240.36	0.51	-0.50	0.11
13638.00	90.81	269.48	94	8054.3	5311.13	-3123.77	-5582.98	6397.46	240.77	1.11	-0.86	-0.70
13733.00	88.91	267.79	95	8054.5	5405.85	-3126.03	-5677.94	6481.60	241.16	2.68	-2.00	-1.78
13827.00	91.74	269.40	94	8054.0	5499.56	-3128.34	-5771.90	6565.16	241.54	3.46	3.01	1.71
13921.00	92.23	268.40	94	8050.7	5593.26	-3130.14	-5865.82	6648.73	241.91	1.18	0.52	-1.06
14013.00	90.71	268.06	92	8048.3	5684.91	-3132.98	-5957.75	6731.29	242.26	1.69	-1.65	-0.37
14109.00	90.14	267.99	96	8047.6	5780.54	-3136.29	-6053.69	6817.88	242.61	0.60	-0.59	-0.07
14204.00	89.97	268.42	95	8047.5	5875.21	-3139.27	-6148.64	6903.68	242.95	0.49	-0.18	0.45
14298.00	89.33	269.43	94	8048.1	5968.97	-3141.03	-6242.62	6988.30	243.29	1.27	-0.68	1.07
14393.00	90.34	271.42	95	8048.4	6063.86	-3140.32	-6337.61	7072.97	243.64	2.35	1.06	2.09
14487.00	90.66	272.61	94	8047.6	6157.85	-3137.02	-6431.55	7155.81	244.00	1.31	0.34	1.27
14581.00	90.31	272.97	94	8046.8	6251.84	-3132.44	-6525.43	7238.33	244.36	0.53	-0.37	0.38
14676.00	89.67	267.43	95	8046.8	6346.69	-3132.11	-6620.39	7323.92	244.68	5.87	-0.67	-5.83
14770.00	89.16	260.59	94	8047.7	6439.47	-3141.92	-6713.82	7412.62	244.92	7.30	-0.54	-7.28
14864.00	89.76	250.22	94	8048.6	6528.95	-3165.57	-6804.66	7504.94	245.05	11.05	0.64	-11.03
14959.00	87.29	240.88	95	8051.1	6613.13	-3204.83	-6891.01	7599.80	245.06	10.17	-2.60	-9.83
15053.00	90.12	232.10	94	8053.2	6688.58	-3256.66	-6969.28	7692.64	244.95	9.81	3.01	-9.34
15147.00	88.37	222.91	94	8054.5	6754.39	-3320.08	-7038.51	7782.25	244.75	9.95	-1.86	-9.78
15242.00	88.84	211.92	95	8056.8	6807.99	-3395.39	-7096.12	7866.61	244.43	11.58	0.49	-11.57
15336.00	88.60	201.57	94	8058.9	6845.78	-3479.20	-7138.35	7941.09	244.02	11.01	-0.26	-11.01
15430.00	88.37	191.69	94	8061.4	6867.89	-3569.13	-7165.21	8004.93	243.52	10.51	-0.24	-10.51
15524.00	90.57	182.68	94	8062.2	6874.74	-3662.28	-7176.96	8057.36	242.97	9.87	2.34	-9.59
15619.00	92.50	177.58	95	8059.7	6869.99	-3757.21	-7177.17	8101.14	242.37	5.74	2.03	-5.37
15713.00	92.74	170.97	94	8055.4	6855.76	-3850.60	-7167.81	8136.62	241.76	7.03	0.26	-7.03
15808.00	90.90	161.06	95	8052.4	6828.05	-3942.61	-7144.89	8160.49	241.11	10.60	-1.94	-10.43
15902.00	86.69	151.05	94	8054.4	6785.53	-4028.38	-7106.81	8169.12	240.45	11.55	-4.48	-10.65
15997.00	88.80	145.16	95	8058.1	6731.25	-4108.93	-7056.68	8165.78	239.79	6.58	2.22	-6.20

Minimum Radius of Curvature

API: 42-283-37267 **Well: Meek Waitz Unit LAS 2H** **Wellhead Location N+/S- : 28.451394**
Operator: Chesapeake Energy **Area: Eagleford** **E+/W- : -99.355208**
Rig: Cactus 144 **Type: U-Lateral** **Magnetic Declination: 4.12**
TD: 18,747' **Plane of Proposal: 273.00**

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			
16091.00	90.53	142.75	94	8058.6	6672.05	-4184.92	-7001.37	8156.76	239.13	3.16	1.84	-2.56
16186.00	89.43	138.56	95	8058.7	6608.07	-4258.37	-6941.16	8143.31	238.47	4.56	-1.16	-4.41
16280.00	86.95	129.07	94	8061.7	6537.06	-4323.35	-6873.45	8120.08	237.83	10.43	-2.64	-10.10
16374.00	88.38	123.02	94	8065.5	6458.36	-4378.58	-6797.54	8085.70	237.21	6.61	1.52	-6.44
16468.00	90.93	118.30	94	8066.1	6375.14	-4426.50	-6716.72	8044.14	236.61	5.71	2.71	-5.02
16563.00	91.19	115.47	95	8064.3	6288.30	-4469.45	-6632.01	7997.47	236.02	2.99	0.27	-2.98
16657.00	87.72	104.89	94	8065.2	6198.64	-4501.82	-6543.92	7942.88	235.47	11.84	-3.69	-11.26
16752.00	89.03	101.10	95	8067.9	6105.14	-4523.17	-6451.41	7879.07	234.97	4.22	1.38	-3.99
16846.00	89.83	100.37	94	8068.8	6012.00	-4540.68	-6359.06	7813.80	234.47	1.15	0.85	-0.78
16941.00	90.93	100.73	95	8068.2	5917.82	-4558.07	-6265.67	7748.20	233.97	1.22	1.16	0.38
17035.00	90.86	100.93	94	8066.7	5824.71	-4575.73	-6173.36	7684.25	233.45	0.23	-0.07	0.21
17129.00	92.16	100.38	94	8064.2	5731.58	-4593.11	-6081.01	7620.72	232.94	1.50	1.38	-0.59
17224.00	92.17	100.22	95	8060.7	5637.42	-4610.08	-5987.61	7556.74	232.41	0.17	0.01	-0.17
17318.00	91.27	100.13	94	8057.8	5544.20	-4626.68	-5895.13	7493.91	231.87	0.96	-0.96	-0.10
17413.00	90.09	99.35	95	8056.7	5449.87	-4642.75	-5801.51	7430.52	231.33	1.49	-1.24	-0.82
17508.00	88.84	98.65	95	8057.6	5355.39	-4657.61	-5707.68	7366.88	230.78	1.51	-1.32	-0.74
17602.00	91.16	100.18	94	8057.6	5261.99	-4672.98	-5614.96	7305.10	230.23	2.96	2.47	1.63
17695.00	89.43	97.19	93	8057.1	5169.46	-4687.02	-5523.04	7243.77	229.68	3.71	-1.86	-3.22
17789.00	89.06	96.74	94	8058.4	5075.70	-4698.42	-5429.74	7180.34	229.13	0.62	-0.39	-0.48
17884.00	89.87	97.76	95	8059.2	4980.96	-4710.41	-5335.51	7117.28	228.56	1.37	0.85	1.07
17978.00	90.08	99.63	94	8059.3	4887.43	-4724.62	-5242.59	7057.39	227.97	2.00	0.22	1.99
18073.00	89.84	101.85	95	8059.3	4793.30	-4742.32	-5149.26	7000.32	227.36	2.35	-0.25	2.34
18167.00	90.41	104.65	94	8059.1	4700.81	-4763.86	-5057.78	6948.06	226.71	3.04	0.61	2.98
18261.00	89.78	103.96	94	8059.0	4608.64	-4787.09	-4966.69	6898.13	226.05	0.99	-0.67	-0.73
18355.00	89.64	104.41	94	8059.5	4516.43	-4810.12	-4875.56	6848.97	225.39	0.50	-0.15	0.48
18449.00	90.41	105.19	94	8059.4	4424.41	-4834.14	-4784.68	6801.62	224.71	1.17	0.82	0.83
18543.00	89.80	104.42	94	8059.2	4332.40	-4858.16	-4693.80	6755.25	224.01	1.05	-0.65	-0.82
18637.00	90.56	104.35	94	8059.0	4240.25	-4881.51	-4602.75	6709.28	223.32	0.81	0.81	-0.07
18734.00	90.10	103.79	97	8058.4	4145.06	-4905.09	-4508.66	6662.43	222.59	0.75	-0.47	-0.58
18747.00	90.08	103.76	13	8058.4	4132.29	-4908.18	-4496.04	6656.17	222.49	0.28	-0.15	-0.23