

Merit Energy
 Finney County, KS (NAD 27)
 McWilliam: E-8 - McWilliams E-8
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Measured Depth (ft)	Inc	Azimuth	Vertical Depth (ft)	Local Northing (ft)	Local Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
0	0	0	0	0	0	0	0
296	0.1	273.2	296	0.01	-0.26	-0.11	0.03
416	0.1	334.2	416	0.11	-0.41	-0.27	0.08
563	0.2	355.2	563	0.49	-0.49	-0.64	0.08
720	0.4	35.2	720	1.21	-0.19	-1.19	0.18
878	0.6	26.2	877.99	2.4	0.49	-2.01	0.14
1036	1.2	21.1	1035.97	4.69	1.45	-3.74	0.38
1193	0.9	27.2	1192.95	7.32	2.61	-5.71	0.2
1321	0.9	27.2	1320.93	9.1	3.53	-6.99	0
1511	1.4	42.2	1510.89	12.15	5.77	-8.92	0.31
1708	1	10.2	1707.85	15.63	7.69	-11.36	0.39
1785	0.75	332.25	1784.84	16.73	7.57	-12.42	0.8
1879	1.44	178.1	1878.84	16.1	7.33	-11.93	2.28
1973	4.42	176.85	1972.7	11.3	7.56	-7.43	3.17
2067	6.1	172.27	2066.3	2.73	8.43	0.79	1.84
2161	7.68	175.05	2159.62	-8.48	9.65	11.58	1.72
2255	9.19	167.54	2252.61	-22.06	11.81	24.93	1.99
2349	10.03	170.36	2345.29	-37.46	14.8	40.27	1.02
2444	10.25	163.99	2438.81	-53.74	18.52	56.7	1.2
2537	9.27	165.17	2530.45	-68.94	22.72	72.33	1.08
2631	10.57	154.72	2623.05	-84.06	28.34	88.43	2.36
2725	10.56	154.53	2715.46	-99.63	35.72	105.66	0.04
2817	10.29	155.39	2805.94	-114.71	42.77	122.29	0.34
2912	9.81	154.99	2899.48	-129.76	49.72	138.86	0.51
3006	10.85	158.54	2991.96	-145.25	56.35	155.71	1.3
3101	10.27	158.36	3085.35	-161.44	62.74	173.12	0.61
3193	9.99	157.91	3175.92	-176.46	68.77	189.29	0.32
3287	8.8	159.58	3268.65	-190.75	74.34	204.63	1.3
3380	10.31	153.51	3360.36	-204.87	80.54	220.04	1.95
3474	9.4	154.28	3452.98	-219.32	87.62	236.11	0.98
3569	10.35	154.7	3546.57	-234.02	94.63	252.39	1
3663	10.13	155.16	3639.07	-249.16	101.72	269.09	0.25
3758	9.96	154.61	3732.61	-264.16	108.75	285.65	0.21
3852	10.12	156.1	3825.17	-279.05	115.58	302.03	0.32

3945	9.9	155.09	3916.76	-293.77	122.26	318.19	0.3
4038	9.58	158.01	4008.42	-308.2	128.52	333.91	0.63
4132	11.49	155.29	4100.83	-323.96	135.36	351.1	2.1
4225	11.34	155.58	4191.99	-340.7	143.02	369.5	0.17
4319	11.12	153.74	4284.19	-357.25	150.85	387.79	0.45
4414	10.76	154.55	4377.46	-373.47	158.71	405.79	0.41
4508	10.24	152.99	4469.89	-388.84	166.28	422.9	0.63
4601	9.61	154.59	4561.5	-403.21	173.36	438.9	0.74
4696	8.96	162.39	4655.26	-417.43	179	454.19	1.49
4788	9.45	157.27	4746.07	-431.22	184.09	468.87	1.04
4884	10.64	164.47	4840.6	-447.03	189.51	485.54	1.8
4977	9.53	161.01	4932.17	-462.58	194.31	501.73	1.36
5069	9.22	163.29	5022.94	-476.84	198.91	516.65	0.53
5101	8.97	163.72	5054.54	-481.69	200.35	521.68	0.81
5146	8.97	163.72	5098.99	-488.43	202.31	528.64	0

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North. Vertical depths are relative to RKB. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet. Vertical Section is from Shot and calculated along Azimuth of 6.910° (Grid).

Coordinate System is NAD 1983 (NAD83) US State Plane 1983 North Central Zone, Kansas South 1502 Central meridian is -98.500°. Grid Convergence at Surface is -1.508°.

Based upon Minimum Curvature type calculations, at a Measured Interval of 5146.00 ft., the Bottom Hole Displacement is 528.67 ft., in the Direction of 1.910° (Grid).

