

Company: HRM RESOURCES, LLC
WellName: FRITZLER #6-8-17
Location: SEC. 17 T6N R66W

Vertical Section calculated on an Azimuth of: 226.9499

Survey Calculation Method: Minimum Curvature

FileName: F:\WELL REPORTS\HRM Resources LLC\Fritzler 6-8-17\Fritzler #6-8-17, Directional Survey.sr5

#	Depth Feet	Inc Degrees	Azimuth Degrees	TVD Feet	SubSea Feet	North Feet	East Feet	Section Feet	Dogleg /100 ft	BldRate /100 ft	Trnrate /100 ft	Comment
0	0.00	0.00	226.95	0.00	4786.00	0.00	0.00	0.00	0.00	0.00	0.00	
1	100.00	0.00	226.95	100.00	4686.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	200.00	0.00	226.95	200.00	4586.00	0.00	0.00	0.00	0.00	0.00	0.00	
3	300.00	0.00	226.95	300.00	4486.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	400.00	0.00	226.95	400.00	4386.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	500.00	0.00	226.95	500.00	4286.00	0.00	0.00	0.00	0.00	0.00	0.00	
6	600.00	0.00	226.95	600.00	4186.00	0.00	0.00	0.00	0.00	0.00	0.00	
7	700.00	0.00	226.95	700.00	4086.00	0.00	0.00	0.00	0.00	0.00	0.00	
8	800.00	0.00	226.95	800.00	3986.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	897.00	0.00	226.95	897.00	3889.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	900.00	0.03	226.95	900.00	3886.00	0.00	0.00	0.00	1.00	1.00	0.00	
11	1000.00	1.03	226.95	999.99	3786.01	-0.63	-0.68	0.93	1.00	1.00	0.00	
12	1100.00	2.03	226.95	1099.96	3686.04	-2.45	-2.63	3.60	1.00	1.00	0.00	
13	1200.00	3.03	226.95	1199.86	3586.14	-5.47	-5.85	8.01	1.00	1.00	0.00	
14	1300.00	4.03	226.95	1299.67	3486.33	-9.67	-10.35	14.17	1.00	1.00	0.00	
15	1400.00	5.03	226.95	1399.35	3386.65	-15.06	-16.12	22.07	1.00	1.00	0.00	
16	1500.00	6.03	226.95	1498.89	3287.11	-21.64	-23.17	31.70	1.00	1.00	0.00	
17	1600.00	7.03	226.95	1598.24	3187.76	-29.40	-31.48	43.07	1.00	1.00	0.00	
18	1700.00	8.03	226.95	1697.37	3088.63	-38.35	-41.05	56.18	1.00	1.00	0.00	
19	1800.00	9.03	226.95	1796.27	2989.73	-48.47	-51.89	71.01	1.00	1.00	0.00	
20	1900.00	10.03	226.95	1894.89	2891.11	-59.78	-63.99	87.57	1.00	1.00	0.00	
21	1997.00	11.00	226.95	1990.26	2795.75	-71.86	-76.93	105.27	1.00	1.00	0.00	
22	2000.00	11.00	226.95	1993.20	2792.80	-72.25	-77.34	105.84	0.00	0.00	0.00	
23	2100.00	11.00	226.95	2091.36	2694.64	-85.28	-91.29	124.92	0.00	0.00	0.00	
24	2200.00	11.00	226.95	2189.53	2596.47	-98.30	-105.23	144.00	0.00	0.00	0.00	
25	2300.00	11.00	226.95	2287.69	2498.31	-111.33	-119.17	163.08	0.00	0.00	0.00	
26	2400.00	11.00	226.95	2385.85	2400.15	-124.35	-133.12	182.16	0.00	0.00	0.00	
27	2500.00	11.00	226.95	2484.01	2301.99	-137.38	-147.06	201.25	0.00	0.00	0.00	
28	2600.00	11.00	226.95	2582.18	2203.82	-150.40	-161.01	220.33	0.00	0.00	0.00	
29	2700.00	11.00	226.95	2680.34	2105.66	-163.43	-174.95	239.41	0.00	0.00	0.00	
30	2800.00	11.00	226.95	2778.50	2007.50	-176.45	-188.89	258.49	0.00	0.00	0.00	
31	2900.00	11.00	226.95	2876.66	1909.34	-189.48	-202.84	277.57	0.00	0.00	0.00	
32	3000.00	11.00	226.95	2974.83	1811.17	-202.50	-216.78	296.65	0.00	0.00	0.00	
33	3100.00	11.00	226.95	3072.99	1713.01	-215.53	-230.72	315.73	0.00	0.00	0.00	
34	3200.00	11.00	226.95	3171.15	1614.85	-228.55	-244.67	334.81	0.00	0.00	0.00	
35	3300.00	11.00	226.95	3269.31	1516.69	-241.58	-258.61	353.89	0.00	0.00	0.00	
36	3400.00	11.00	226.95	3367.48	1418.52	-254.61	-272.55	372.97	0.00	0.00	0.00	
37	3500.00	11.00	226.95	3465.64	1320.36	-267.63	-286.50	392.05	0.00	0.00	0.00	
38	3600.00	11.00	226.95	3563.80	1222.20	-280.66	-300.44	411.14	0.00	0.00	0.00	
39	3700.00	11.00	226.95	3661.96	1124.04	-293.68	-314.38	430.22	0.00	0.00	0.00	
40	3800.00	11.00	226.95	3760.13	1025.87	-306.71	-328.33	449.30	0.00	0.00	0.00	
41	3900.00	11.00	226.95	3858.29	927.71	-319.73	-342.27	468.38	0.00	0.00	0.00	

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Vertical Section calculated on an Azimuth of: 226.9499

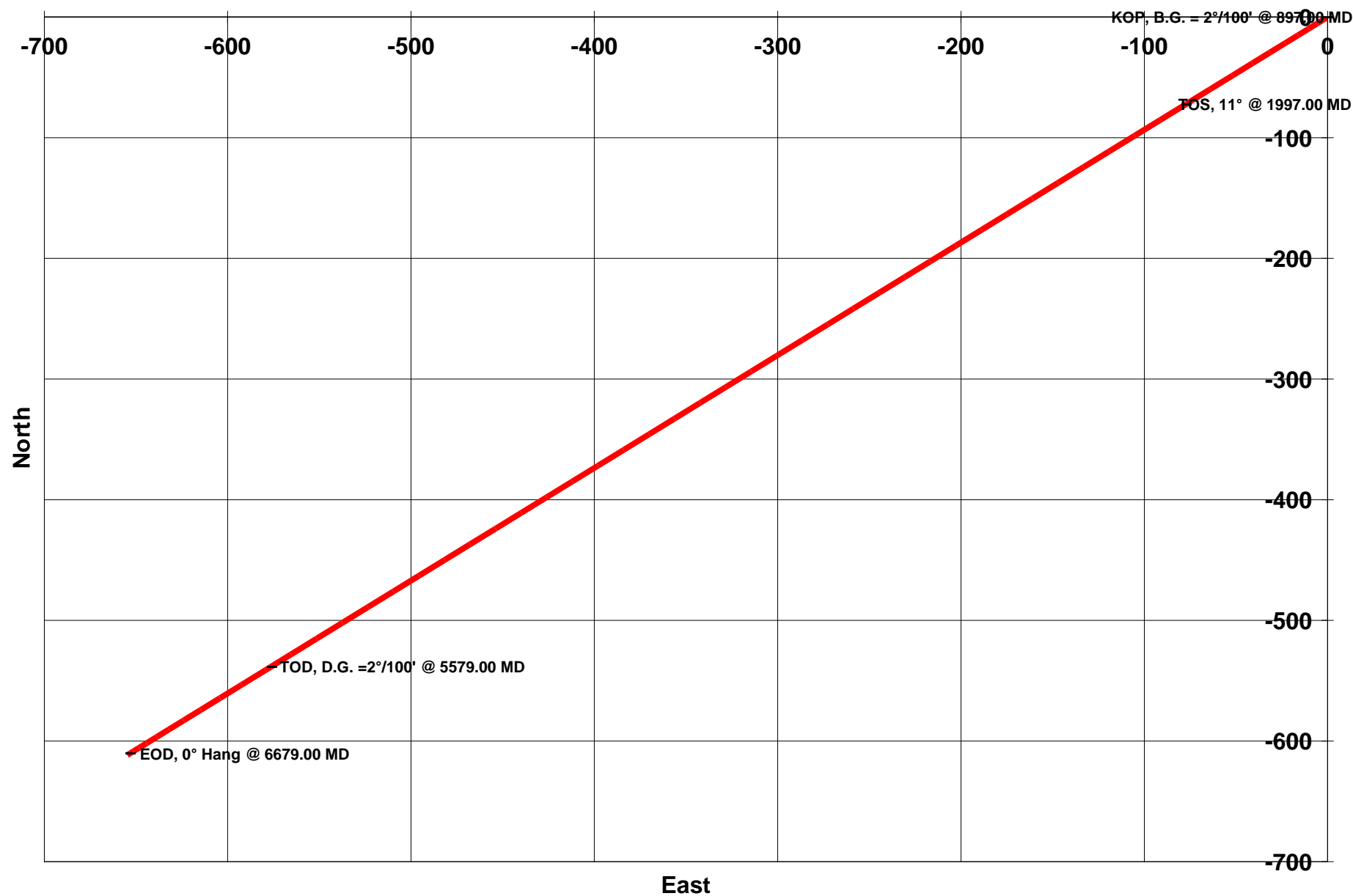
Survey Calculation Method: Minimum Curvature

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#	Depth Feet	Inc Degrees	Azimuth Degrees	TVD Feet	SubSea Feet	North Feet	East Feet	Section Feet	Dogleg /100 ft	BldRate /100 ft	Trnrate /100 ft	Comment
42	4000.00	11.00	226.95	3956.45	829.55	-332.76	-356.21	487.46	0.00	0.00	0.00	
43	4100.00	11.00	226.95	4054.61	731.39	-345.78	-370.16	506.54	0.00	0.00	0.00	
44	4200.00	11.00	226.95	4152.78	633.22	-358.81	-384.10	525.62	0.00	0.00	0.00	
45	4300.00	11.00	226.95	4250.94	535.06	-371.83	-398.04	544.70	0.00	0.00	0.00	
46	4400.00	11.00	226.95	4349.10	436.90	-384.86	-411.99	563.78	0.00	0.00	0.00	
47	4500.00	11.00	226.95	4447.27	338.73	-397.88	-425.93	582.86	0.00	0.00	0.00	
48	4600.00	11.00	226.95	4545.43	240.57	-410.91	-439.88	601.94	0.00	0.00	0.00	
49	4700.00	11.00	226.95	4643.59	142.41	-423.93	-453.82	621.03	0.00	0.00	0.00	
50	4800.00	11.00	226.95	4741.75	44.25	-436.96	-467.76	640.11	0.00	0.00	0.00	
51	4900.00	11.00	226.95	4839.92	-53.92	-449.99	-481.71	659.19	0.00	0.00	0.00	
52	5000.00	11.00	226.95	4938.08	-152.08	-463.01	-495.65	678.27	0.00	0.00	0.00	
53	5100.00	11.00	226.95	5036.24	-250.24	-476.04	-509.59	697.35	0.00	0.00	0.00	
54	5200.00	11.00	226.95	5134.40	-348.40	-489.06	-523.54	716.43	0.00	0.00	0.00	
55	5300.00	11.00	226.95	5232.57	-446.57	-502.09	-537.48	735.51	0.00	0.00	0.00	
56	5400.00	11.00	226.95	5330.73	-544.73	-515.11	-551.42	754.59	0.00	0.00	0.00	
57	5500.00	11.00	226.95	5428.89	-642.89	-528.14	-565.37	773.67	0.00	0.00	0.00	
58	5579.70	11.00	226.95	5507.13	-721.13	TOD, D.G. =2°/100'		788.88	0.00	0.00	0.00	
59	5600.00	10.80	226.95	5527.06	-741.06	-538.52	-576.48	792.72	1.00	1.00	0.00	
60	5700.00	9.80	226.95	5625.45	-839.45	-541.14	-579.28	810.59	1.00	1.00	0.00	
61	5800.00	8.80	226.95	5724.13	-938.13	-553.34	-592.35	826.75	1.00	1.00	0.00	
62	5900.00	7.80	226.95	5823.09	-1037.09	-564.37	-604.15	841.18	1.00	1.00	0.00	
63	6000.00	6.80	226.95	5922.27	-1136.27	-574.22	-614.70	853.88	1.00	1.00	0.00	
64	6100.00	5.80	226.95	6021.67	-1235.67	-582.89	-623.98	864.85	1.00	1.00	0.00	
65	6200.00	4.80	226.95	6121.24	-1335.24	-590.38	-631.99	874.08	1.00	1.00	0.00	
66	6300.00	3.80	226.95	6220.96	-1434.96	-596.68	-638.74	881.57	1.00	1.00	0.00	
67	6400.00	2.80	226.95	6320.79	-1534.79	-601.79	-644.21	887.32	1.00	1.00	0.00	
68	6500.00	1.80	226.95	6420.71	-1634.71	-605.72	-648.42	891.33	1.00	1.00	0.00	
69	6600.00	0.80	226.95	6520.68	-1734.68	-608.46	-651.35	893.59	1.00	1.00	0.00	
70	6679.70	0.00	226.95	6600.38	-1814.38	-610.00	-653.00	894.15	1.00	1.00	0.00	
71	6700.00	0.00	226.95	6620.68	-1834.68	EOD, 0° Hang		894.15	0.00	0.00	0.00	
72	6800.00	0.00	226.95	6720.68	-1934.68	-610.38	-653.41	894.15	0.00	0.00	0.00	
73	6900.00	0.00	226.95	6820.68	-2034.68	-610.38	-653.41	894.15	0.00	0.00	0.00	
74	7000.00	0.00	226.95	6920.68	-2134.68	-610.38	-653.41	894.15	0.00	0.00	0.00	
75	7100.00	0.00	226.95	7020.68	-2234.68	-610.38	-653.41	894.15	0.00	0.00	0.00	
76	7200.00	0.00	226.95	7120.68	-2334.68	-610.38	-653.41	894.15	0.00	0.00	0.00	
77	7300.00	0.00	226.95	7220.68	-2434.68	-610.38	-653.41	894.15	0.00	0.00	0.00	
78	7400.00	0.00	226.95	7320.68	-2534.68	-610.38	-653.41	894.15	0.00	0.00	0.00	
79	7429.31	0.00	226.95	7350.00	-2564.00	-610.38	-653.41	894.15	0.00	0.00	0.00	

Closure is 894.1483 feet on an Azimuth of 226.9499

Plan View
FRITZLER #6-8-17



Section View
FRITZLER #6-8-17

