

Company: HRM RESOURCES, LLC
WellName: FRITZLER #34-17
Location: SEC 17, T6N-R66W

Vertical Section calculated on an Azimuth of: 269.6920

Survey Calculation Method: Minimum Curvature

FileName: F:\WELL REPORTS\HRM Resources LLC\Fritzler 34-17\Fritzler #34-17, 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	269.69	0.00	4786.00	0.00	0.00	0.00	0.00	0.00	0.00	
1	100.00	0.00	269.69	100.00	4686.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	200.00	0.00	269.69	200.00	4586.00	0.00	0.00	0.00	0.00	0.00	0.00	
3	300.00	0.00	269.69	300.00	4486.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	400.00	0.00	269.69	400.00	4386.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	500.00	0.00	269.69	500.00	4286.00	0.00	0.00	0.00	0.00	0.00	0.00	
6	600.00	0.00	269.69	600.00	4186.00	0.00	0.00	0.00	0.00	0.00	0.00	
KOP, B.G. =2°/100'												
7	675.00	0.00	269.69	675.00	4111.00	0.00	0.00	0.00	0.00	0.00	0.00	
8	700.00	0.50	269.69	700.00	4086.00	0.00	-0.11	0.11	2.00	2.00	0.00	
9	800.00	2.50	269.69	799.96	3986.04	-0.01	-2.73	2.73	2.00	2.00	0.00	
10	900.00	4.50	269.69	899.77	3886.23	-0.05	-8.83	8.83	2.00	2.00	0.00	
11	1000.00	6.50	269.69	999.30	3786.70	-0.10	-18.42	18.42	2.00	2.00	0.00	
12	1100.00	8.50	269.69	1098.44	3687.56	-0.17	-31.47	31.47	2.00	2.00	0.00	
13	1200.00	10.50	269.69	1197.07	3588.93	-0.26	-47.97	47.97	2.00	2.00	0.00	
14	1300.00	12.50	269.69	1295.05	3490.95	-0.37	-67.91	67.91	2.00	2.00	0.00	
TOS, 14°												
15	1375.00	14.00	269.69	1368.06	3417.94	-0.46	-85.10	85.10	2.00	2.00	0.00	
16	1400.00	14.00	269.69	1392.31	3393.69	-0.49	-91.14	91.14	0.00	0.00	0.00	
17	1500.00	14.00	269.69	1489.34	3296.66	-0.62	-115.34	115.34	0.00	0.00	0.00	
18	1600.00	14.00	269.69	1586.37	3199.63	-0.75	-139.53	139.53	0.00	0.00	0.00	
19	1700.00	14.00	269.69	1683.40	3102.60	-0.88	-163.72	163.72	0.00	0.00	0.00	
20	1800.00	14.00	269.69	1780.43	3005.57	-1.01	-187.91	187.91	0.00	0.00	0.00	
21	1900.00	14.00	269.69	1877.46	2908.54	-1.14	-212.10	212.11	0.00	0.00	0.00	
22	2000.00	14.00	269.69	1974.49	2811.51	-1.27	-236.29	236.30	0.00	0.00	0.00	
23	2100.00	14.00	269.69	2071.52	2714.48	-1.40	-260.49	260.49	0.00	0.00	0.00	
24	2200.00	14.00	269.69	2168.55	2617.45	-1.53	-284.68	284.68	0.00	0.00	0.00	
25	2300.00	14.00	269.69	2265.58	2520.42	-1.66	-308.87	308.87	0.00	0.00	0.00	
26	2400.00	14.00	269.69	2362.61	2423.39	-1.79	-333.06	333.07	0.00	0.00	0.00	
27	2500.00	14.00	269.69	2459.64	2326.36	-1.92	-357.25	357.26	0.00	0.00	0.00	
28	2600.00	14.00	269.69	2556.67	2229.33	-2.05	-381.45	381.45	0.00	0.00	0.00	
29	2700.00	14.00	269.69	2653.70	2132.30	-2.18	-405.64	405.64	0.00	0.00	0.00	
30	2800.00	14.00	269.69	2750.73	2035.27	-2.31	-429.83	429.84	0.00	0.00	0.00	
31	2900.00	14.00	269.69	2847.76	1938.24	-2.44	-454.02	454.03	0.00	0.00	0.00	
32	3000.00	14.00	269.69	2944.79	1841.21	-2.57	-478.21	478.22	0.00	0.00	0.00	
33	3100.00	14.00	269.69	3041.81	1744.19	-2.70	-502.40	502.41	0.00	0.00	0.00	
34	3200.00	14.00	269.69	3138.84	1647.16	-2.83	-526.60	526.60	0.00	0.00	0.00	
35	3300.00	14.00	269.69	3235.87	1550.13	-2.96	-550.79	550.80	0.00	0.00	0.00	
36	3400.00	14.00	269.69	3332.90	1453.10	-3.09	-574.98	574.99	0.00	0.00	0.00	
37	3500.00	14.00	269.69	3429.93	1356.07	-3.22	-599.17	599.18	0.00	0.00	0.00	
38	3600.00	14.00	269.69	3526.96	1259.04	-3.35	-623.36	623.37	0.00	0.00	0.00	
39	3700.00	14.00	269.69	3623.99	1162.01	-3.48	-647.56	647.56	0.00	0.00	0.00	
40	3800.00	14.00	269.69	3721.02	1064.98	-3.61	-671.75	671.76	0.00	0.00	0.00	
41	3900.00	14.00	269.69	3818.05	967.95	-3.74	-695.94	695.95	0.00	0.00	0.00	

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Vertical Section calculated on an Azimuth of: 269.6920

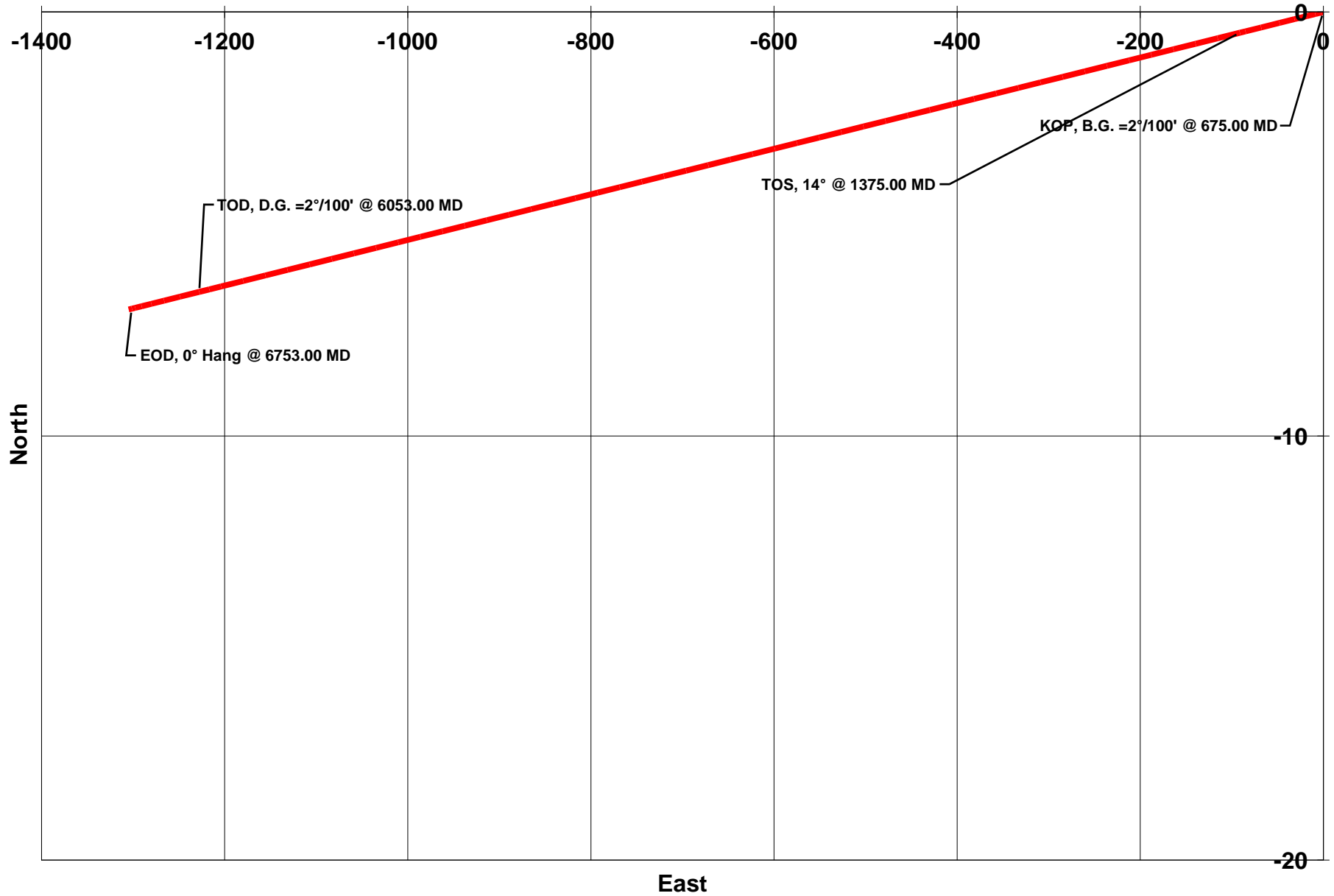
Survey Calculation Method: Minimum Curvature

FileName: F:\WELL REPORTS\HRM Resources LLC\Fritzler 34-17\Fritzler #34-17, 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
42	4000.00	14.00	269.69	3915.08	870.92	-3.87	-720.13	720.14	0.00	0.00	0.00	
43	4100.00	14.00	269.69	4012.11	773.89	-4.00	-744.32	744.33	0.00	0.00	0.00	
44	4200.00	14.00	269.69	4109.14	676.86	-4.13	-768.51	768.53	0.00	0.00	0.00	
45	4300.00	14.00	269.69	4206.17	579.83	-4.26	-792.71	792.72	0.00	0.00	0.00	
46	4400.00	14.00	269.69	4303.20	482.80	-4.39	-816.90	816.91	0.00	0.00	0.00	
47	4500.00	14.00	269.69	4400.23	385.77	-4.52	-841.09	841.10	0.00	0.00	0.00	
48	4600.00	14.00	269.69	4497.26	288.74	-4.65	-865.28	865.29	0.00	0.00	0.00	
49	4700.00	14.00	269.69	4594.29	191.71	-4.78	-889.47	889.49	0.00	0.00	0.00	
50	4800.00	14.00	269.69	4691.32	94.68	-4.91	-913.67	913.68	0.00	0.00	0.00	
51	4900.00	14.00	269.69	4788.35	-2.35	-5.04	-937.86	937.87	0.00	0.00	0.00	
52	5000.00	14.00	269.69	4885.38	-99.38	-5.17	-962.05	962.06	0.00	0.00	0.00	
53	5100.00	14.00	269.69	4982.41	-196.41	-5.30	-986.24	986.26	0.00	0.00	0.00	
54	5200.00	14.00	269.69	5079.44	-293.44	-5.43	-1010.43	1010.45	0.00	0.00	0.00	
55	5300.00	14.00	269.69	5176.47	-390.47	-5.56	-1034.62	1034.64	0.00	0.00	0.00	
56	5400.00	14.00	269.69	5273.50	-487.50	-5.69	-1058.82	1058.83	0.00	0.00	0.00	
57	5500.00	14.00	269.69	5370.53	-584.53	-5.82	-1083.01	1083.02	0.00	0.00	0.00	
58	5600.00	14.00	269.69	5467.56	-681.56	-5.95	-1107.20	1107.22	0.00	0.00	0.00	
59	5700.00	14.00	269.69	5564.59	-778.59	-6.08	-1131.39	1131.41	0.00	0.00	0.00	
60	5800.00	14.00	269.69	5661.62	-875.62	-6.21	-1155.58	1155.60	0.00	0.00	0.00	
61	5900.00	14.00	269.69	5758.65	-972.65	-6.34	-1179.78	1179.79	0.00	0.00	0.00	
62	6000.00	14.00	269.69	5855.68	-1069.68	-6.47	-1203.97	1203.99	0.00	0.00	0.00	
63	6052.70	14.00	269.69	5906.81	-1120.81	-6.54	-1216.72	1216.73	0.00	0.00	0.00	
64	6100.00	13.05	269.69	5952.80	-1166.80	-6.60	-1227.78	1227.80	2.00	2.00	0.00	TOD, D.G. =2°/100'
65	6200.00	11.05	269.69	6050.59	-1264.59	-6.71	-1248.66	1248.68	2.00	2.00	0.00	
66	6300.00	9.05	269.69	6149.05	-1363.05	-6.81	-1266.12	1266.14	2.00	2.00	0.00	
67	6400.00	7.05	269.69	6248.06	-1462.06	-6.88	-1280.13	1280.15	2.00	2.00	0.00	
68	6500.00	5.05	269.69	6347.49	-1561.49	-6.94	-1290.67	1290.69	2.00	2.00	0.00	
69	6600.00	3.05	269.69	6447.24	-1661.24	-6.98	-1297.74	1297.76	2.00	2.00	0.00	
70	6700.00	1.05	269.69	6547.17	-1761.17	-7.00	-1301.33	1301.35	2.00	2.00	0.00	
71	6752.70	0.00	269.69	6599.87	-1813.87	-7.00	-1301.81	1301.83	2.00	2.00	0.00	EOD, 0° Hang
72	6800.00	0.00	269.69	6647.17	-1861.17	-7.00	-1301.81	1301.83	0.00	0.00	0.00	
73	6900.00	0.00	269.69	6747.17	-1961.17	-7.00	-1301.81	1301.83	0.00	0.00	0.00	
74	7000.00	0.00	269.69	6847.17	-2061.17	-7.00	-1301.81	1301.83	0.00	0.00	0.00	
75	7100.00	0.00	269.69	6947.17	-2161.17	-7.00	-1301.81	1301.83	0.00	0.00	0.00	
76	7200.00	0.00	269.69	7047.17	-2261.17	-7.00	-1301.81	1301.83	0.00	0.00	0.00	
77	7300.00	0.00	269.69	7147.17	-2361.17	-7.00	-1301.81	1301.83	0.00	0.00	0.00	
78	7400.00	0.00	269.69	7247.17	-2461.17	-7.00	-1301.81	1301.83	0.00	0.00	0.00	
79	7500.00	0.00	269.69	7347.17	-2561.17	-7.00	-1301.81	1301.83	0.00	0.00	0.00	
80	7502.84	0.00	269.69	7350.00	-2564.00	-7.00	-1301.81	1301.83	0.00	0.00	0.00	

Closure is 1301.8313 feet on an Azimuth of 269.6920

Plan View
FRITZLER #34-17



Section View
FRITZLER #34-17

