

Company: Foundation Energy Management  
WellName: Banta Ridge Federal #5-18  
Location:

Vertical Section calculated on an Azimuth of: 2.5378

Survey Calculation Method: Minimum Curvature

FileName: F:\WELL REPORTS\Foundation Energy\Banta Ridge Federal 5-18\Directional Plan 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	2.54	0.00	6055.00	0.00	0.00	0.00	0.00	0.00	0.00	
1	100.00	0.00	2.54	100.00	5955.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	200.00	0.00	2.54	200.00	5855.00	0.00	0.00	0.00	0.00	0.00	0.00	
3	300.00	0.00	2.54	300.00	5755.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	400.00	0.00	2.54	400.00	5655.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	500.00	0.00	2.54	500.00	5555.00	0.00	0.00	0.00	0.00	0.00	0.00	
6	580.00	0.00	2.54	580.00	5475.00	KOP, B.G. =2°/100'		0.00	0.00	0.00	0.00	
7	600.00	0.40	2.54	600.00	5455.00	0.07	0.00	0.07	2.00	2.00	0.00	
8	700.00	2.40	2.54	699.96	5355.04	2.51	0.11	2.51	2.00	2.00	0.00	
9	800.00	4.40	2.54	799.78	5255.22	8.43	0.37	8.44	2.00	2.00	0.00	
10	900.00	6.40	2.54	899.33	5155.67	17.84	0.79	17.85	2.00	2.00	0.00	
11	1000.00	8.40	2.54	998.50	5056.50	30.70	1.36	30.73	2.00	2.00	0.00	
12	1100.00	10.40	2.54	1097.15	4957.85	47.02	2.08	47.06	2.00	2.00	0.00	
13	1200.00	12.40	2.54	1195.17	4859.83	66.76	2.96	66.83	2.00	2.00	0.00	
14	1300.00	14.40	2.54	1292.44	4762.56	89.91	3.99	90.00	2.00	2.00	0.00	
15	1330.00	15.00	2.54	1321.46	4733.54	TOS, Hold 15°		97.52	4.32	97.62	2.00	0.00
16	1400.00	15.00	2.54	1389.08	4665.92	115.62	5.12	115.73	0.00	0.00	0.00	
17	1500.00	15.00	2.54	1485.67	4569.33	141.48	6.27	141.61	0.00	0.00	0.00	
18	1600.00	15.00	2.54	1582.26	4472.74	167.33	7.42	167.50	0.00	0.00	0.00	
19	1700.00	15.00	2.54	1678.85	4376.15	193.19	8.56	193.38	0.00	0.00	0.00	
20	1800.00	15.00	2.54	1775.45	4279.55	219.05	9.71	219.26	0.00	0.00	0.00	
21	1900.00	15.00	2.54	1872.04	4182.96	244.90	10.85	245.14	0.00	0.00	0.00	
22	2000.00	15.00	2.54	1968.63	4086.37	270.76	12.00	271.02	0.00	0.00	0.00	
23	2100.00	15.00	2.54	2065.22	3989.78	296.61	13.15	296.91	0.00	0.00	0.00	
24	2200.00	15.00	2.54	2161.82	3893.18	322.47	14.29	322.79	0.00	0.00	0.00	
25	2300.00	15.00	2.54	2258.41	3796.59	348.33	15.44	348.67	0.00	0.00	0.00	
26	2400.00	15.00	2.54	2355.00	3700.00	374.18	16.58	374.55	0.00	0.00	0.00	
27	2500.00	15.00	2.54	2451.59	3603.41	400.04	17.73	400.43	0.00	0.00	0.00	
28	2600.00	15.00	2.54	2548.19	3506.81	425.90	18.88	426.32	0.00	0.00	0.00	
29	2700.00	15.00	2.54	2644.78	3410.22	451.75	20.02	452.20	0.00	0.00	0.00	
30	2800.00	15.00	2.54	2741.37	3313.63	477.61	21.17	478.08	0.00	0.00	0.00	
31	2900.00	15.00	2.54	2837.96	3217.04	503.47	22.31	503.96	0.00	0.00	0.00	
32	3000.00	15.00	2.54	2934.56	3120.44	529.32	23.46	529.84	0.00	0.00	0.00	
33	3100.00	15.00	2.54	3031.15	3023.85	555.18	24.61	555.72	0.00	0.00	0.00	
34	3200.00	15.00	2.54	3127.74	2927.26	581.04	25.75	581.61	0.00	0.00	0.00	
35	3300.00	15.00	2.54	3224.33	2830.67	606.89	26.90	607.49	0.00	0.00	0.00	
36	3366.20	15.00	2.54	3288.28	2766.72	TOD, D.G. =2°/100'		624.01	27.66	624.62	0.00	0.00
37	3400.00	14.32	2.54	3320.98	2734.02	632.56	28.04	633.18	2.00	2.00	0.00	
38	3500.00	12.32	2.54	3418.28	2636.72	655.58	29.06	656.22	2.00	2.00	0.00	
39	3600.00	10.32	2.54	3516.33	2538.67	675.19	29.93	675.86	2.00	2.00	0.00	
40	3700.00	8.32	2.54	3615.00	2440.00	691.38	30.64	692.06	2.00	2.00	0.00	

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PathTracker Survey 5.0.361  
Survey Calculation Program

Page 2 of 2

Company: Foundation Energy Management  
WellName: Banta Ridge Federal #5-18  
Location:

Vertical Section calculated on an Azimuth of: 2.5378

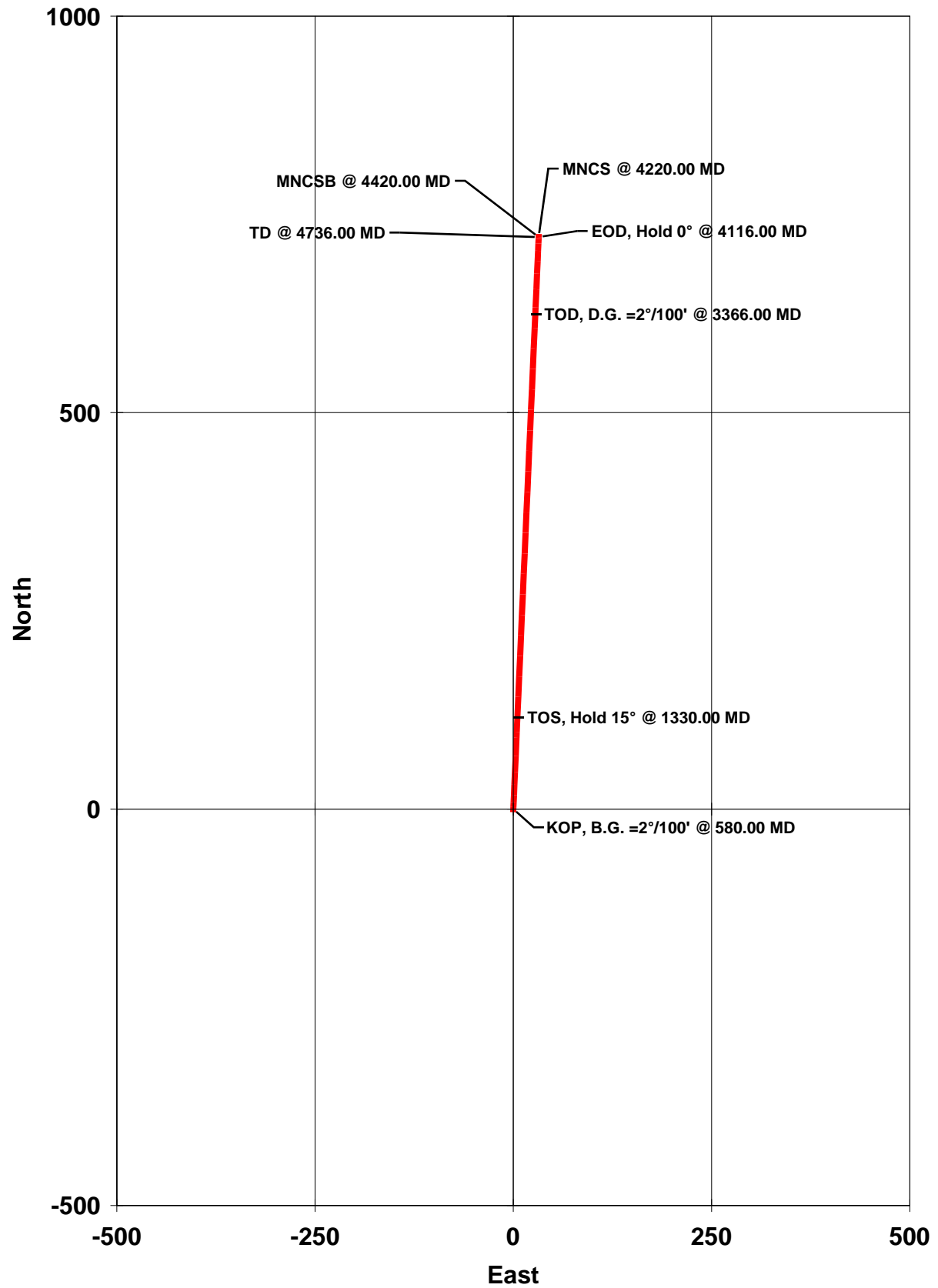
Survey Calculation Method: Minimum Curvature

FileName: F:\WELL REPORTS\Foundation Energy\Banta Ridge Federal 5-18\Directional Plan 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
41	3800.00	6.32	2.54	3714.18	2340.82	704.11	31.21	704.81	2.00	2.00	0.00	
42	3900.00	4.32	2.54	3813.75	2241.25	713.38	31.62	714.08	2.00	2.00	0.00	
43	4000.00	2.32	2.54	3913.57	2141.43	719.18	31.87	719.88	2.00	2.00	0.00	
44	4100.00	0.32	2.54	4013.54	2041.46	721.48	31.98	722.19	2.00	2.00	0.00	
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EOD, Hold 0°												
45	4116.20	0.00	2.54	4029.74	2025.26	721.53	31.98	722.24	2.00	2.00	0.00	
46	4200.00	0.00	2.54	4113.54	1941.46	721.53	31.98	722.24	0.00	0.00	0.00	
MNCS												
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Int	4220.46	0.00	0.00	4134.00	1921.00	721.53	31.98	722.24	---	---	---	
48	4300.00	0.00	2.54	4213.54	1841.46	721.53	31.98	722.24	0.00	0.00	0.00	
49	4400.00	0.00	2.54	4313.54	1741.46	721.53	31.98	722.24	0.00	0.00	0.00	
MNCSB												
-----												
Int	4420.46	0.00	0.00	4334.00	1721.00	721.53	31.98	722.24	---	---	---	
51	4500.00	0.00	2.54	4413.54	1641.46	721.53	31.98	722.24	0.00	0.00	0.00	
52	4600.00	0.00	2.54	4513.54	1541.46	721.53	31.98	722.24	0.00	0.00	0.00	
53	4700.00	0.00	2.54	4613.54	1441.46	721.53	31.98	722.24	0.00	0.00	0.00	
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TD												
54	4736.46	0.00	2.54	4650.00	1405.00	721.53	31.98	722.24	0.00	0.00	0.00	

Closure is 722.2378 feet on an Azimuth of 2.5378

**Plan View**  
**Banta Ridge Federal #5-18**



# Section View Banta Ridge Federal #5-18

