

Company: Foundation Energy Management  
WellName: Banta Ridge Federal #11-18  
Location:

Vertical Section calculated on an Azimuth of: 128.5543

Survey Calculation Method: Minimum Curvature

FileName: F:\WELL REPORTS\Foundation Energy\Banta Ridge Federal 11-18\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	128.55	0.00	5858.00	0.00	0.00	0.00	0.00	0.00	0.00	
1	100.00	0.00	128.55	100.00	5758.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	200.00	0.00	128.55	200.00	5658.00	0.00	0.00	0.00	0.00	0.00	0.00	
3	300.00	0.00	128.55	300.00	5558.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	400.00	0.00	128.55	400.00	5458.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	496.00	0.00	128.55	496.00	5362.00	0.00	0.00	0.00	0.00	0.00	0.00	
6	500.00	0.12	128.55	500.00	5358.00	0.00	0.00	0.00	3.00	3.00	0.00	
7	600.00	3.12	128.55	599.95	5258.05	-1.76	2.21	2.83	3.00	3.00	0.00	
8	700.00	6.12	128.55	699.61	5158.39	-6.78	8.51	10.88	3.00	3.00	0.00	
9	800.00	9.12	128.55	798.72	5059.28	-15.05	18.88	24.14	3.00	3.00	0.00	
10	900.00	12.12	128.55	896.99	4961.01	-26.53	33.29	42.57	3.00	3.00	0.00	
11	1000.00	15.12	128.55	994.17	4863.83	-41.21	51.70	66.12	3.00	3.00	0.00	
12	1100.00	18.12	128.55	1089.98	4768.02	-59.03	74.07	94.72	3.00	3.00	0.00	
13	1200.00	21.12	128.55	1184.17	4673.83	-79.96	100.32	128.29	3.00	3.00	0.00	
14	1262.67	23.00	128.55	1242.24	4615.76	-94.63	118.73	151.82	3.00	3.00	0.00	
15	1300.00	23.00	128.55	1276.61	4581.39	-103.72	130.14	166.41	0.00	0.00	0.00	TOS, Hold 23°
16	1400.00	23.00	128.55	1368.66	4489.34	-128.07	160.69	205.48	0.00	0.00	0.00	
17	1500.00	23.00	128.55	1460.71	4397.29	-152.42	191.25	244.56	0.00	0.00	0.00	
18	1600.00	23.00	128.55	1552.76	4305.24	-176.77	221.80	283.63	0.00	0.00	0.00	
19	1700.00	23.00	128.55	1644.81	4213.19	-201.13	252.36	322.70	0.00	0.00	0.00	
20	1800.00	23.00	128.55	1736.86	4121.14	-225.48	282.92	361.78	0.00	0.00	0.00	
21	1900.00	23.00	128.55	1828.91	4029.09	-249.83	313.47	400.85	0.00	0.00	0.00	
22	2000.00	23.00	128.55	1920.96	3937.04	-274.18	344.03	439.92	0.00	0.00	0.00	
23	2100.00	23.00	128.55	2013.01	3844.99	-298.54	374.58	479.00	0.00	0.00	0.00	
24	2200.00	23.00	128.55	2105.06	3752.94	-322.89	405.14	518.07	0.00	0.00	0.00	
25	2300.00	23.00	128.55	2197.11	3660.89	-347.24	435.70	557.14	0.00	0.00	0.00	
26	2400.00	23.00	128.55	2289.16	3568.84	-371.60	466.25	596.22	0.00	0.00	0.00	
27	2500.00	23.00	128.55	2381.21	3476.79	-395.95	496.81	635.29	0.00	0.00	0.00	
28	2600.00	23.00	128.55	2473.26	3384.74	-420.30	527.36	674.36	0.00	0.00	0.00	
29	2700.00	23.00	128.55	2565.31	3292.69	-444.65	557.92	713.44	0.00	0.00	0.00	
30	2800.00	23.00	128.55	2657.36	3200.64	-469.01	588.48	752.51	0.00	0.00	0.00	
31	2900.00	23.00	128.55	2749.42	3108.58	-493.36	619.03	791.58	0.00	0.00	0.00	
32	3000.00	23.00	128.55	2841.47	3016.53	-517.71	649.59	830.65	0.00	0.00	0.00	
33	3100.00	23.00	128.55	2933.52	2924.48	-542.06	680.14	869.73	0.00	0.00	0.00	
34	3200.00	23.00	128.55	3025.57	2832.43	-566.42	710.70	908.80	0.00	0.00	0.00	
35	3300.00	23.00	128.55	3117.62	2740.38	-590.77	741.25	947.87	0.00	0.00	0.00	
36	3306.77	23.00	128.55	3123.85	2734.15	-592.42	743.32	950.52	0.00	0.00	0.00	
37	3400.00	20.20	128.55	3210.52	2647.48	-613.81	770.16	984.84	3.00	3.00	0.00	TOD, D.G. =3°/100'
38	3500.00	17.20	128.55	3305.23	2552.77	-633.79	795.24	1016.90	3.00	3.00	0.00	
39	3600.00	14.20	128.55	3401.49	2456.51	-650.66	816.40	1043.96	3.00	3.00	0.00	
40	3700.00	11.20	128.55	3499.03	2358.97	-664.36	833.59	1065.95	3.00	3.00	0.00	

May 18,2011  
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PathTracker 5.0.361  
Survey Calculation Program

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WellName: Banta Ridge Federal #11-18  
Location:

Vertical Section calculated on an Azimuth of: 128.5543

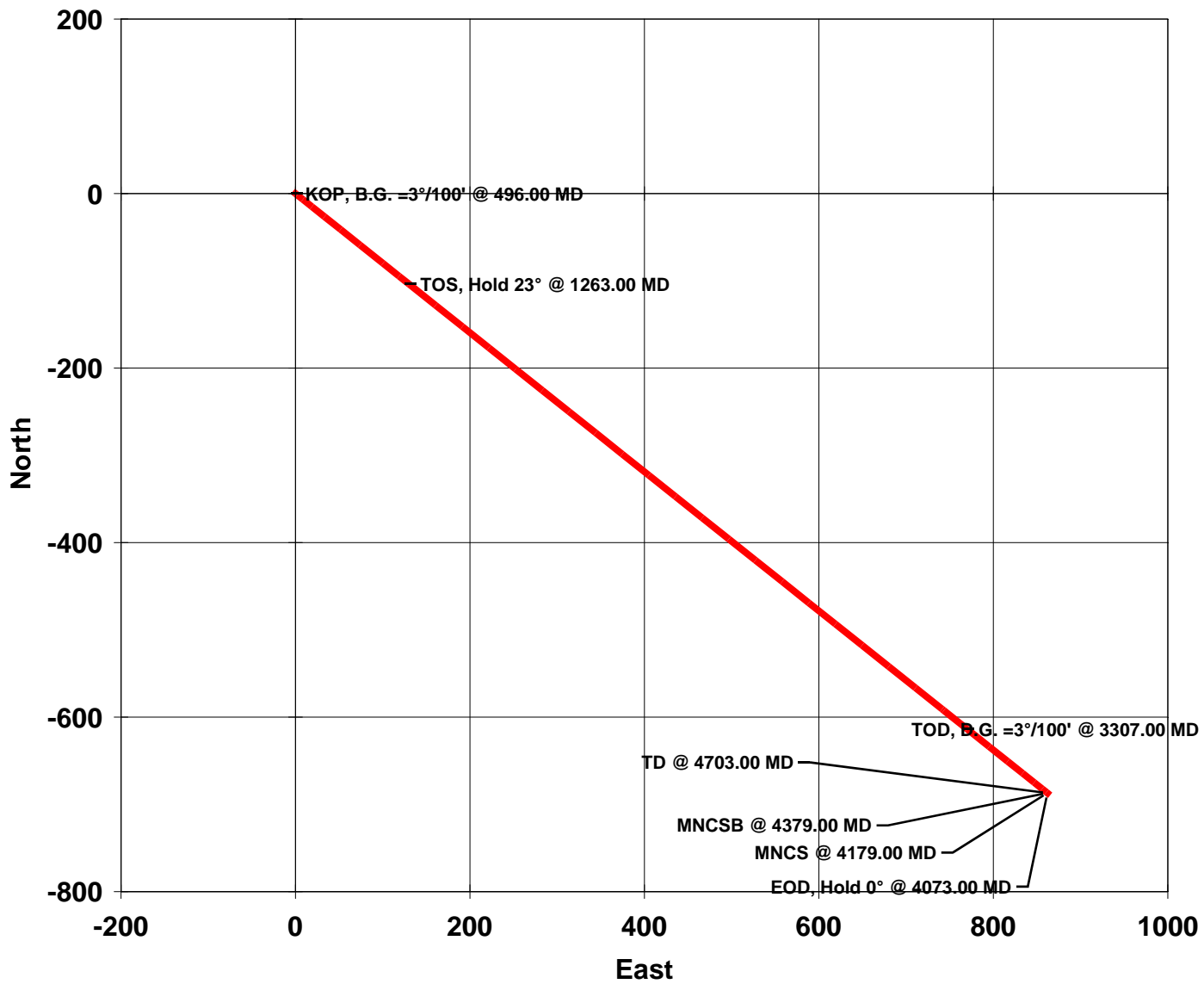
Survey Calculation Method: Minimum Curvature

FileName: F:\WELL REPORTS\Foundation Energy\Banta Ridge Federal 11-18\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	8.20	128.55	3597.59	2260.41	-674.86	846.77	1082.80	3.00	3.00	0.00	
42	3900.00	5.20	128.55	3696.89	2161.11	-682.14	855.90	1094.47	3.00	3.00	0.00	
43	4000.00	2.20	128.55	3796.67	2061.33	-686.16	860.95	1100.93	3.00	3.00	0.00	
EOD, Hold 0°												
44	4073.43	0.00	128.55	3870.09	1987.91	-687.04	862.05	1102.34	3.00	3.00	0.00	
45	4100.00	0.00	128.55	3896.65	1961.35	-687.04	862.05	1102.34	0.00	0.00	0.00	
MNCS												
Int	4179.35	0.00	0.00	3976.00	1882.00	-687.04	862.05	1102.34	---	---	---	
47	4200.00	0.00	128.55	3996.65	1861.35	-687.04	862.05	1102.34	0.00	0.00	0.00	
48	4300.00	0.00	128.55	4096.65	1761.35	-687.04	862.05	1102.34	0.00	0.00	0.00	
MNCSB												
Int	4379.35	0.00	0.00	4176.00	1682.00	-687.04	862.05	1102.34	---	---	---	
50	4400.00	0.00	128.55	4196.65	1661.35	-687.04	862.05	1102.34	0.00	0.00	0.00	
51	4500.00	0.00	128.55	4296.65	1561.35	-687.04	862.05	1102.34	0.00	0.00	0.00	
52	4600.00	0.00	128.55	4396.65	1461.35	-687.04	862.05	1102.34	0.00	0.00	0.00	
53	4700.00	0.00	128.55	4496.65	1361.35	-687.04	862.05	1102.34	0.00	0.00	0.00	
TD												
54	4703.35	0.00	128.55	4500.00	1358.00	-687.04	862.05	1102.34	0.00	0.00	0.00	

Closure is 1102.3427 meters on an Azimuth of 128.5543

Plan View  
Banta Ridge Federal #11-18



# Section View Banta Ridge Federal #11-18

