

Company: HRM Resources, LLC
WellName: Boulter #0-2-27
Location: SENW, Sec. 27, T5N-R65W

Vertical Section calculated on an Azimuth of: 274.0827

Survey Calculation Method: Minimum Curvature

FileName: F:\WELL REPORTS\HRM Resources LLC\Boulter 0-2-27\Boulter #0-2-27, Survey.pl4.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	274.08	0.00	4667.00	0.00	0.00	0.00	0.00	0.00	0.00	
1	100.00	0.00	274.08	100.00	4567.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	200.00	0.00	274.08	200.00	4467.00	0.00	0.00	0.00	0.00	0.00	0.00	
3	300.00	0.00	274.08	300.00	4367.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	400.00	0.00	274.08	400.00	4267.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	500.00	0.00	274.08	500.00	4167.00	0.00	0.00	0.00	0.00	0.00	0.00	
6	600.00	0.00	274.08	600.00	4067.00	0.00	0.00	0.00	0.00	0.00	0.00	
7	700.00	0.00	274.08	700.00	3967.00	0.00	0.00	0.00	0.00	0.00	0.00	
8	755.00	0.00	274.08	755.00	3912.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP, B.G.=2"/100'
9	800.00	0.90	274.08	800.00	3867.00	0.03	-0.35	0.35	2.00	2.00	0.00	
10	900.00	2.90	274.08	899.94	3767.06	0.26	-3.66	3.67	2.00	2.00	0.00	
11	1000.00	4.90	274.08	999.70	3667.30	0.75	-10.44	10.47	2.00	2.00	0.00	
12	1100.00	6.90	274.08	1099.17	3567.83	1.48	-20.70	20.75	2.00	2.00	0.00	
13	1200.00	8.90	274.08	1198.21	3468.79	2.46	-34.40	34.49	2.00	2.00	0.00	
14	1300.00	10.90	274.08	1296.72	3370.28	3.68	-51.55	51.68	2.00	2.00	0.00	
15	1400.00	12.90	274.08	1394.56	3272.44	5.15	-72.12	72.30	2.00	2.00	0.00	
16	1430.00	13.50	274.08	1423.77	3243.23	5.64	-78.95	79.15	2.00	2.00	0.00	TOS, 13.5°
17	1500.00	13.50	274.08	1491.84	3175.16	6.80	-95.25	95.50	0.00	0.00	0.00	
18	1600.00	13.50	274.08	1589.07	3077.93	8.46	-118.54	118.84	0.00	0.00	0.00	
19	1700.00	13.50	274.08	1686.31	2980.69	10.12	-141.82	142.18	0.00	0.00	0.00	
20	1800.00	13.50	274.08	1783.55	2883.45	11.79	-165.11	165.53	0.00	0.00	0.00	
21	1900.00	13.50	274.08	1880.79	2786.21	13.45	-188.39	188.87	0.00	0.00	0.00	
22	2000.00	13.50	274.08	1978.02	2688.98	15.11	-211.68	212.22	0.00	0.00	0.00	
23	2100.00	13.50	274.08	2075.26	2591.74	16.77	-234.96	235.56	0.00	0.00	0.00	
24	2200.00	13.50	274.08	2172.50	2494.50	18.43	-258.25	258.91	0.00	0.00	0.00	
25	2300.00	13.50	274.08	2269.73	2397.27	20.10	-281.54	282.25	0.00	0.00	0.00	
26	2400.00	13.50	274.08	2366.97	2300.03	21.76	-304.82	305.60	0.00	0.00	0.00	
27	2500.00	13.50	274.08	2464.21	2202.79	23.42	-328.11	328.94	0.00	0.00	0.00	
28	2600.00	13.50	274.08	2561.44	2105.56	25.08	-351.39	352.29	0.00	0.00	0.00	
29	2700.00	13.50	274.08	2658.68	2008.32	26.74	-374.68	375.63	0.00	0.00	0.00	
30	2800.00	13.50	274.08	2755.92	1911.08	28.41	-397.96	398.97	0.00	0.00	0.00	
31	2900.00	13.50	274.08	2853.16	1813.84	30.07	-421.25	422.32	0.00	0.00	0.00	
32	3000.00	13.50	274.08	2950.39	1716.61	31.73	-444.53	445.66	0.00	0.00	0.00	
33	3100.00	13.50	274.08	3047.63	1619.37	33.39	-467.82	469.01	0.00	0.00	0.00	
34	3200.00	13.50	274.08	3144.87	1522.13	35.05	-491.10	492.35	0.00	0.00	0.00	
35	3300.00	13.50	274.08	3242.10	1424.90	36.72	-514.39	515.70	0.00	0.00	0.00	
36	3400.00	13.50	274.08	3339.34	1327.66	38.38	-537.67	539.04	0.00	0.00	0.00	
37	3500.00	13.50	274.08	3436.58	1230.42	40.04	-560.96	562.39	0.00	0.00	0.00	
38	3600.00	13.50	274.08	3533.82	1133.18	41.70	-584.24	585.73	0.00	0.00	0.00	
39	3700.00	13.50	274.08	3631.05	1035.95	43.36	-607.53	609.08	0.00	0.00	0.00	
40	3800.00	13.50	274.08	3728.29	938.71	45.03	-630.82	632.42	0.00	0.00	0.00	
41	3900.00	13.50	274.08	3825.53	841.47	46.69	-654.10	655.76	0.00	0.00	0.00	

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Location: SENW, Sec. 27, T5N-R65W

Vertical Section calculated on an Azimuth of: 274.0827

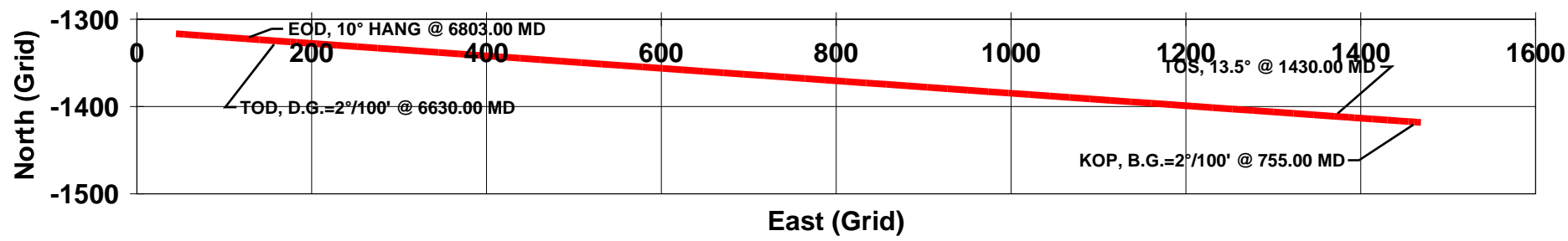
Survey Calculation Method: Minimum Curvature

FileName: F:\WELL REPORTS\HRM Resources LLC\Boulter 0-2-27\Boulter #0-2-27, Survey.pl4.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	13.50	274.08	3922.76	744.24	48.35	-677.39	679.11	0.00	0.00	0.00	
43	4100.00	13.50	274.08	4020.00	647.00	50.01	-700.67	702.45	0.00	0.00	0.00	
44	4200.00	13.50	274.08	4117.24	549.76	51.67	-723.96	725.80	0.00	0.00	0.00	
45	4300.00	13.50	274.08	4214.47	452.53	53.34	-747.24	749.14	0.00	0.00	0.00	
46	4400.00	13.50	274.08	4311.71	355.29	55.00	-770.53	772.49	0.00	0.00	0.00	
47	4500.00	13.50	274.08	4408.95	258.05	56.66	-793.81	795.83	0.00	0.00	0.00	
48	4600.00	13.50	274.08	4506.19	160.81	58.32	-817.10	819.18	0.00	0.00	0.00	
49	4700.00	13.50	274.08	4603.42	63.58	59.98	-840.38	842.52	0.00	0.00	0.00	
50	4800.00	13.50	274.08	4700.66	-33.66	61.65	-863.67	865.87	0.00	0.00	0.00	
51	4900.00	13.50	274.08	4797.90	-130.90	63.31	-886.95	889.21	0.00	0.00	0.00	
52	5000.00	13.50	274.08	4895.13	-228.13	64.97	-910.24	912.55	0.00	0.00	0.00	
53	5100.00	13.50	274.08	4992.37	-325.37	66.63	-933.52	935.90	0.00	0.00	0.00	
54	5200.00	13.50	274.08	5089.61	-422.61	68.30	-956.81	959.24	0.00	0.00	0.00	
55	5300.00	13.50	274.08	5186.84	-519.84	69.96	-980.09	982.59	0.00	0.00	0.00	
56	5400.00	13.50	274.08	5284.08	-617.08	71.62	-1003.38	1005.93	0.00	0.00	0.00	
57	5500.00	13.50	274.08	5381.32	-714.32	73.28	-1026.66	1029.28	0.00	0.00	0.00	
58	5600.00	13.50	274.08	5478.55	-811.55	74.94	-1049.95	1052.62	0.00	0.00	0.00	
59	5700.00	13.50	274.08	5575.79	-908.79	76.61	-1073.24	1075.97	0.00	0.00	0.00	
60	5800.00	13.50	274.08	5673.03	-1006.03	78.27	-1096.52	1099.31	0.00	0.00	0.00	
61	5900.00	13.50	274.08	5770.26	-1103.26	79.93	-1119.81	1122.65	0.00	0.00	0.00	
62	6000.00	13.50	274.08	5867.50	-1200.50	81.59	-1143.09	1146.00	0.00	0.00	0.00	
63	6100.00	13.50	274.08	5964.74	-1297.74	83.25	-1166.38	1169.34	0.00	0.00	0.00	
64	6200.00	13.50	274.08	6061.97	-1394.97	84.92	-1189.66	1192.69	0.00	0.00	0.00	
65	6300.00	13.50	274.08	6159.21	-1492.21	86.58	-1212.95	1216.03	0.00	0.00	0.00	
66	6400.00	13.50	274.08	6256.45	-1589.45	88.24	-1236.23	1239.38	0.00	0.00	0.00	
67	6500.00	13.50	274.08	6353.68	-1686.68	89.90	-1259.52	1262.72	0.00	0.00	0.00	
68	6600.00	13.50	274.08	6450.92	-1783.92	91.56	-1282.80	1286.07	0.00	0.00	0.00	
69	6628.00	13.50	274.08	6478.15	-1811.15	92.03	-1289.32	1292.60	0.00	0.00	0.00	
TOD, D.G.=2"/100'												
70	6700.00	12.06	274.08	6548.36	-1881.36	93.16	-1305.21	1308.53	2.00	2.00	0.00	
71	6800.00	10.06	274.08	6646.50	-1979.50	94.53	-1324.34	1327.71	2.00	2.00	0.00	
EOD, 10° HANG												
72	6803.00	10.00	274.08	6649.45	-1982.45	94.57	-1324.86	1328.23	2.00	2.00	0.00	
73	6900.00	10.00	274.08	6744.98	-2077.98	95.77	-1341.67	1345.08	0.00	0.00	0.00	
74	7000.00	10.00	274.08	6843.46	-2176.46	97.00	-1358.99	1362.44	0.00	0.00	0.00	
75	7100.00	10.00	274.08	6941.94	-2274.94	98.24	-1376.31	1379.81	0.00	0.00	0.00	
76	7200.00	10.00	274.08	7040.42	-2373.42	99.47	-1393.63	1397.17	0.00	0.00	0.00	
77	7300.00	10.00	274.08	7138.90	-2471.90	100.71	-1410.95	1414.54	0.00	0.00	0.00	
78	7331.57	10.00	274.08	7170.00	-2503.00	101.10	-1416.42	1420.02	0.00	0.00	0.00	

Closure is 1420.0207 feet on an Azimuth of 274.0827

Plan View
Boulter #0-2-27



**Section View
Boulter #0-2-27**

