

Company: HRM RESOURCES, LLC
WellName: BINDER #0-6-20
Location: 20-4N-67W

Vertical Section calculated on an Azimuth of: 242.4794
Survey Calculation Method: Minimum Curvature
FileName: F:\WELL REPORTS\HRM Resources LLC\Binder 0-6-20\Binder #0-6-20 Directional Surveys.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	242.48	0.00	4921.00	0.00	0.00	0.00	0.00	0.00	0.00	
1	100.00	0.00	242.48	100.00	4821.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	200.00	0.00	242.48	200.00	4721.00	0.00	0.00	0.00	0.00	0.00	0.00	
3	300.00	0.00	242.48	300.00	4621.00	0.00	0.00	0.00	0.00	0.00	0.00	
KOP, B.G. = 2°/100'												
4	400.00	0.00	242.48	400.00	4521.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	500.00	2.00	242.48	499.98	4421.02	-0.81	-1.55	1.75	2.00	2.00	0.00	
6	600.00	4.00	242.48	599.84	4321.16	-3.22	-6.19	6.98	2.00	2.00	0.00	
7	700.00	6.00	242.48	699.45	4221.55	-7.25	-13.92	15.69	2.00	2.00	0.00	
8	800.00	8.00	242.48	798.70	4122.30	-12.88	-24.73	27.88	2.00	2.00	0.00	
9	900.00	10.00	242.48	897.47	4023.53	-20.11	-38.60	43.52	2.00	2.00	0.00	
10	1000.00	12.00	242.48	995.62	3925.38	-28.93	-55.52	62.60	2.00	2.00	0.00	
11	1100.00	14.00	242.48	1093.06	3827.94	-39.32	-75.47	85.10	2.00	2.00	0.00	
12	1200.00	16.00	242.48	1189.64	3731.36	-51.28	-98.42	110.98	2.00	2.00	0.00	
13	1300.00	18.00	242.48	1285.27	3635.73	-64.79	-124.35	140.21	2.00	2.00	0.00	
14	1400.00	20.00	242.48	1379.82	3541.18	-79.83	-153.22	172.77	2.00	2.00	0.00	
15	1500.00	22.00	242.48	1473.17	3447.83	-96.39	-185.00	208.60	2.00	2.00	0.00	
TOS, 22.48°												
16	1524.00	22.48	242.48	1495.38	3425.62	-100.59	-193.05	217.69	2.00	2.00	0.00	
17	1600.00	22.48	242.48	1565.61	3355.39	-114.01	-218.83	246.75	0.00	0.00	0.00	
18	1700.00	22.48	242.48	1658.01	3262.99	-131.68	-252.73	284.98	0.00	0.00	0.00	
19	1800.00	22.48	242.48	1750.41	3170.59	-149.35	-286.64	323.22	0.00	0.00	0.00	
20	1900.00	22.48	242.48	1842.81	3078.19	-167.02	-320.55	361.45	0.00	0.00	0.00	
21	2000.00	22.48	242.48	1935.21	2985.79	-184.68	-354.46	399.69	0.00	0.00	0.00	
22	2100.00	22.48	242.48	2027.61	2893.39	-202.35	-388.37	437.93	0.00	0.00	0.00	
23	2200.00	22.48	242.48	2120.02	2800.98	-220.02	-422.28	476.16	0.00	0.00	0.00	
24	2300.00	22.48	242.48	2212.42	2708.58	-237.69	-456.19	514.40	0.00	0.00	0.00	
25	2400.00	22.48	242.48	2304.82	2616.18	-255.35	-490.10	552.63	0.00	0.00	0.00	
26	2500.00	22.48	242.48	2397.22	2523.78	-273.02	-524.01	590.87	0.00	0.00	0.00	
27	2600.00	22.48	242.48	2489.62	2431.38	-290.69	-557.92	629.11	0.00	0.00	0.00	
28	2700.00	22.48	242.48	2582.02	2338.98	-308.36	-591.83	667.34	0.00	0.00	0.00	
29	2800.00	22.48	242.48	2674.42	2246.58	-326.02	-625.74	705.58	0.00	0.00	0.00	
30	2900.00	22.48	242.48	2766.83	2154.17	-343.69	-659.65	743.82	0.00	0.00	0.00	
31	3000.00	22.48	242.48	2859.23	2061.77	-361.36	-693.56	782.05	0.00	0.00	0.00	
32	3100.00	22.48	242.48	2951.63	1969.37	-379.03	-727.47	820.29	0.00	0.00	0.00	
33	3200.00	22.48	242.48	3044.03	1876.97	-396.70	-761.38	858.52	0.00	0.00	0.00	
34	3300.00	22.48	242.48	3136.43	1784.57	-414.36	-795.29	896.76	0.00	0.00	0.00	
35	3400.00	22.48	242.48	3228.83	1692.17	-432.03	-829.20	935.00	0.00	0.00	0.00	
36	3500.00	22.48	242.48	3321.23	1599.77	-449.70	-863.11	973.23	0.00	0.00	0.00	
37	3600.00	22.48	242.48	3413.64	1507.36	-467.37	-897.02	1011.47	0.00	0.00	0.00	
38	3700.00	22.48	242.48	3506.04	1414.96	-485.03	-930.92	1049.70	0.00	0.00	0.00	
39	3800.00	22.48	242.48	3598.44	1322.56	-502.70	-964.83	1087.94	0.00	0.00	0.00	
40	3900.00	22.48	242.48	3690.84	1230.16	-520.37	-998.74	1126.18	0.00	0.00	0.00	
41	4000.00	22.48	242.48	3783.24	1137.76	-538.04	-1032.65	1164.41	0.00	0.00	0.00	

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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	4100.00	22.48	242.48	3875.64	1045.36	-555.70	-1066.56	1202.65	0.00	0.00	0.00	
43	4200.00	22.48	242.48	3968.04	952.96	-573.37	-1100.47	1240.88	0.00	0.00	0.00	
44	4300.00	22.48	242.48	4060.45	860.55	-591.04	-1134.38	1279.12	0.00	0.00	0.00	
45	4400.00	22.48	242.48	4152.85	768.15	-608.71	-1168.29	1317.36	0.00	0.00	0.00	
46	4500.00	22.48	242.48	4245.25	675.75	-626.37	-1202.20	1355.59	0.00	0.00	0.00	
47	4600.00	22.48	242.48	4337.65	583.35	-644.04	-1236.11	1393.83	0.00	0.00	0.00	
48	4700.00	22.48	242.48	4430.05	490.95	-661.71	-1270.02	1432.06	0.00	0.00	0.00	
49	4800.00	22.48	242.48	4522.45	398.55	-679.38	-1303.93	1470.30	0.00	0.00	0.00	
50	4900.00	22.48	242.48	4614.85	306.15	-697.05	-1337.84	1508.54	0.00	0.00	0.00	
51	5000.00	22.48	242.48	4707.25	213.75	-714.71	-1371.75	1546.77	0.00	0.00	0.00	
52	5100.00	22.48	242.48	4799.66	121.34	-732.38	-1405.66	1585.01	0.00	0.00	0.00	
53	5200.00	22.48	242.48	4892.06	28.94	-750.05	-1439.57	1623.24	0.00	0.00	0.00	
54	5300.00	22.48	242.48	4984.46	-63.46	-767.72	-1473.48	1661.48	0.00	0.00	0.00	
55	5400.00	22.48	242.48	5076.86	-155.86	-785.38	-1507.38	1699.72	0.00	0.00	0.00	
56	5500.00	22.48	242.48	5169.26	-248.26	-803.05	-1541.29	1737.95	0.00	0.00	0.00	
57	5600.00	22.48	242.48	5261.66	-340.66	-820.72	-1575.20	1776.19	0.00	0.00	0.00	
58	5700.00	22.48	242.48	5354.06	-433.06	-838.39	-1609.11	1814.42	0.00	0.00	0.00	
59	5800.00	22.48	242.48	5446.47	-525.47	-856.05	-1643.02	1852.66	0.00	0.00	0.00	
60	5900.00	22.48	242.48	5538.87	-617.87	-873.72	-1676.93	1890.90	0.00	0.00	0.00	
61	6000.00	22.48	242.48	5631.27	-710.27	-891.39	-1710.84	1929.13	0.00	0.00	0.00	
62	6100.00	22.48	242.48	5723.67	-802.67	-909.06	-1744.75	1967.37	0.00	0.00	0.00	
63	6200.00	22.48	242.48	5816.07	-895.07	-926.73	-1778.66	2005.61	0.00	0.00	0.00	
64	6300.00	22.48	242.48	5908.47	-987.47	-944.39	-1812.57	2043.84	0.00	0.00	0.00	
65	6400.00	22.48	242.48	6000.87	-1079.87	-962.06	-1846.48	2082.08	0.00	0.00	0.00	
66	6500.00	22.48	242.48	6093.27	-1172.27	-979.73	-1880.39	2120.31	0.00	0.00	0.00	
67	6600.00	22.48	242.48	6185.68	-1264.68	-997.40	-1914.30	2158.55	0.00	0.00	0.00	
68	6667.30	22.48	242.48	6247.86	-1326.86	-1009.29	-1937.12	2184.28	0.00	0.00	0.00	TOD, D.G. = 2"/100'
69	6700.00	21.83	242.48	6278.15	-1357.15	-1014.98	-1948.05	2196.61	2.00	2.00	0.00	
70	6800.00	19.83	242.48	6371.61	-1450.61	-1031.41	-1979.58	2232.16	2.00	2.00	0.00	
71	6900.00	17.83	242.48	6466.26	-1545.26	-1046.32	-2008.20	2264.43	2.00	2.00	0.00	
72	7000.00	15.83	242.48	6561.97	-1640.97	-1059.70	-2033.87	2293.38	2.00	2.00	0.00	
73	7100.00	13.83	242.48	6658.64	-1737.64	-1071.52	-2056.56	2318.96	2.00	2.00	0.00	
74	7200.00	11.83	242.48	6756.14	-1835.14	-1081.78	-2076.25	2341.16	2.00	2.00	0.00	
75	7291.30	10.00	242.48	6845.78	-1924.78	-1089.76	-2091.58	2358.45	2.00	2.00	0.00	EOD, 10° HANG
76	7300.00	10.00	242.48	6854.35	-1933.35	-1090.46	-2092.92	2359.96	0.00	0.00	0.00	
77	7400.00	10.00	242.48	6952.83	-2031.83	-1098.48	-2108.31	2377.32	0.00	0.00	0.00	
78	7500.00	10.00	242.48	7051.31	-2130.31	-1106.51	-2123.71	2394.69	0.00	0.00	0.00	
79	7600.00	10.00	242.48	7149.79	-2228.79	-1114.53	-2139.11	2412.05	0.00	0.00	0.00	
80	7700.00	10.00	242.48	7248.27	-2327.27	-1122.55	-2154.51	2429.42	0.00	0.00	0.00	
81	7800.00	10.00	242.48	7346.75	-2425.75	-1130.58	-2169.91	2446.78	0.00	0.00	0.00	
82	7900.00	10.00	242.48	7445.23	-2524.23	-1138.60	-2185.31	2464.15	0.00	0.00	0.00	

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Vertical Section calculated on an Azimuth of: 242.4794

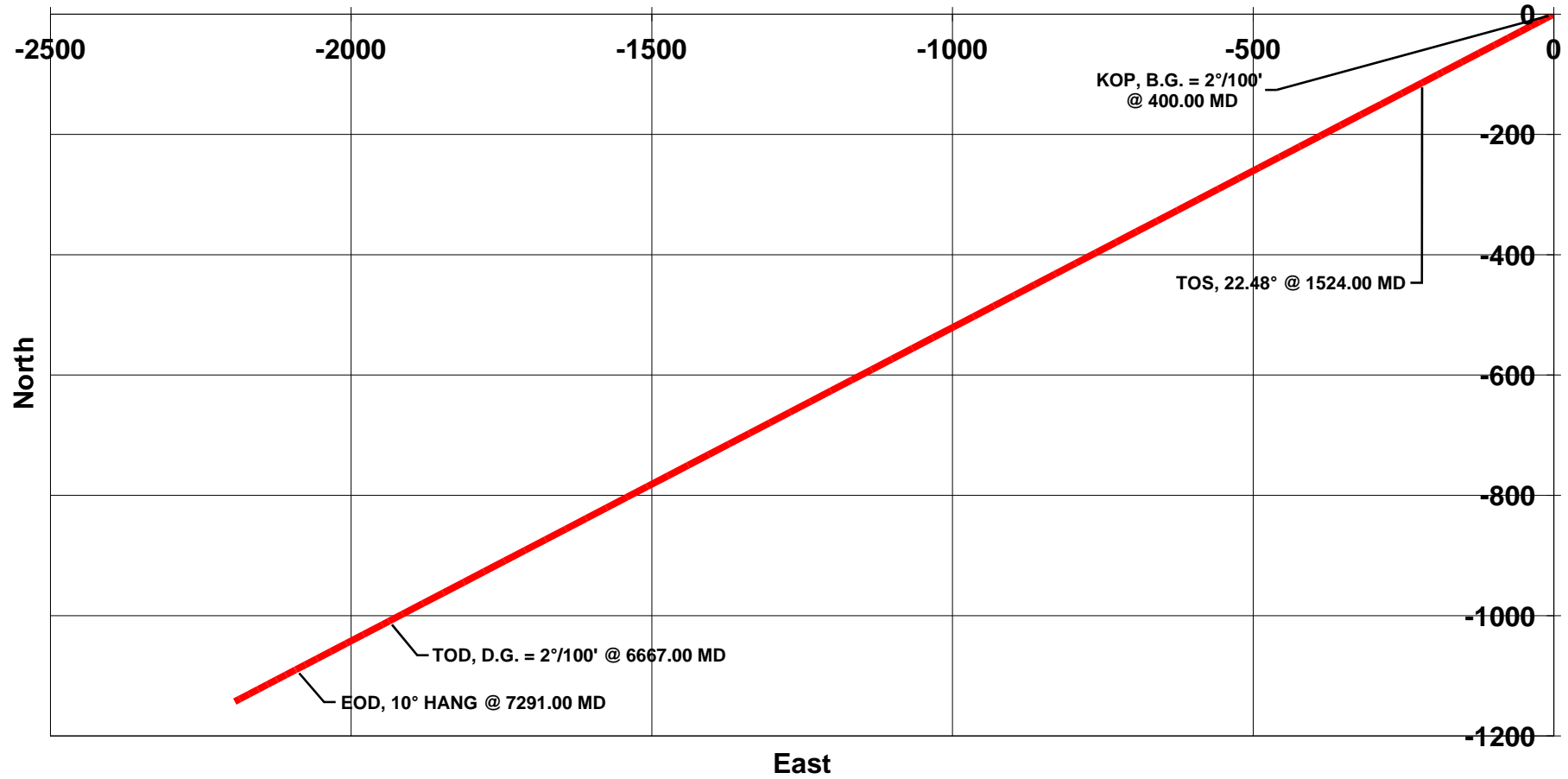
Survey Calculation Method: Minimum Curvature

FileName: F:\WELL REPORTS\HRM Resources LLC\Binder 0-6-20\Binder #0-6-20 Directional Surveys.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
83	7920.00	10.00	242.48	7464.93	-2543.93	-1140.21	-2188.39	2467.62	0.00	0.00	0.00	

Closure is 2467.6187 feet on an Azimuth of 242.4794

Plan View
BINDER #0-6-20



**Section View
BINDER #0-6-20**

