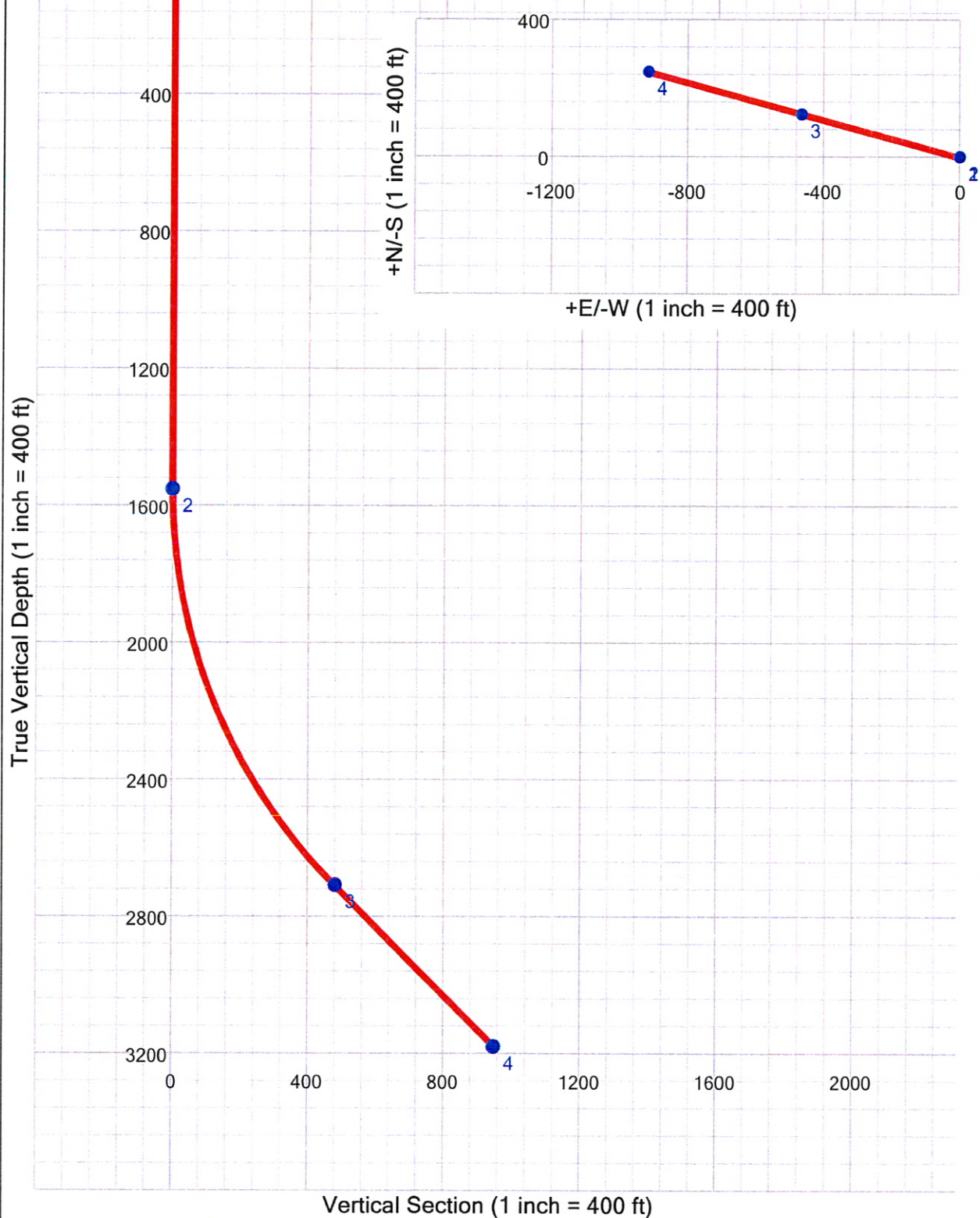


Wall Plot



#	MD	Inc	Azi	TVD	+N/-S	+E/-W	DL	TFO	VS	Comments	Company:	Project:
1	0.0	0.00	285.19	0.0	0.0	0.0	0.00	0.00	0.0		PRO&G	Mackinaw 22-28_Ver 1
2	1550.0	0.00	285.19	1550.0	0.0	0.0	0.00	0.00	0.0	KOP	By:	Moe Felman
3	2835.6	45.00	285.19	2707.5	125.6	-462.6	3.51	0.00	479.4	EOB	Date:	9/22/2010
4	3500.0	45.00	285.19	3177.3	248.7	-916.0	0.00	0.00	949.2		Vertical section azimuth:	285.19°
											Survey calculation method:	Minimum Curvature
											Units:	Length - ft, Dogleg - °/100ft



Survey

MD	Inclination	Azimuth	Tie-In	TVD	NS	EW	HD	VS@285 .2°	DL	BR	TR	TFO	Comments
0.0	0.00	285.19	1	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
100.0	0.00	285.19	0	100.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	285.19	0	200.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
300.0	0.00	285.19	0	300.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
400.0	0.00	285.19	0	400.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
500.0	0.00	285.19	0	500.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	285.19	0	600.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
700.0	0.00	285.19	0	700.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
800.0	0.00	285.19	0	800.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
900.0	0.00	285.19	0	900.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	285.19	0	1,000.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,100.0	0.00	285.19	0	1,100.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,200.0	0.00	285.19	0	1,200.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,300.0	0.00	285.19	0	1,300.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,400.0	0.00	285.19	0	1,400.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	285.19	0	1,500.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,550.0	0.00	285.19	0	1,550.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	KOP
1,600.0	1.75	285.19	0	1,600.0	0.2	-0.7	0.8	0.8	3.50	3.50	0.00	0.00	
1,700.0	5.25	285.19	0	1,699.8	1.8	-6.6	6.9	6.9	3.50	3.50	0.00	0.00	
1,800.0	8.75	285.19	0	1,799.0	5.0	-18.4	19.1	19.1	3.50	3.50	0.00	0.00	
1,900.0	12.25	285.19	0	1,897.3	9.8	-36.0	37.3	37.3	3.50	3.50	0.00	0.00	
2,000.0	15.75	285.19	0	1,994.4	16.1	-59.3	61.5	61.5	3.50	3.50	0.00	0.00	
2,100.0	19.25	285.19	0	2,089.7	24.0	-88.3	91.5	91.5	3.50	3.50	0.00	0.00	
2,200.0	22.75	285.19	0	2,183.1	33.4	-122.9	127.4	127.4	3.50	3.50	0.00	0.00	
2,300.0	26.25	285.19	0	2,274.0	44.2	-162.9	168.8	168.8	3.50	3.50	0.00	0.00	
2,400.0	29.75	285.19	0	2,362.3	56.5	-208.2	215.8	215.8	3.50	3.50	0.00	0.00	
2,500.0	33.25	285.19	0	2,447.6	70.2	-258.6	268.0	268.0	3.50	3.50	0.00	0.00	
2,600.0	36.75	285.19	0	2,529.5	85.2	-314.0	325.4	325.4	3.50	3.50	0.00	0.00	
2,700.0	40.25	285.19	0	2,607.7	101.6	-374.1	387.6	387.6	3.50	3.50	0.00	0.00	
2,800.0	43.75	285.19	0	2,682.0	119.1	-438.6	454.5	454.5	3.50	3.50	0.00	0.00	
2,835.6	45.00	285.19	0	2,707.5	125.6	-462.6	479.4	479.4	3.51	3.51	0.00	0.00	EOB
2,900.0	45.00	285.19	0	2,753.0	137.5	-506.6	524.9	524.9	0.00	0.00	0.00	0.00	
3,000.0	45.00	285.19	0	2,823.7	156.1	-574.8	595.6	595.6	0.00	0.00	0.00	0.00	
3,100.0	45.00	285.19	0	2,894.4	174.6	-643.1	666.4	666.4	0.00	0.00	0.00	0.00	
3,200.0	45.00	285.19	0	2,965.1	193.1	-711.3	737.1	737.1	0.00	0.00	0.00	0.00	
3,300.0	45.00	285.19	0	3,035.8	211.7	-779.6	807.8	807.8	0.00	0.00	0.00	0.00	
3,400.0	45.00	285.19	0	3,106.6	230.2	-847.8	878.5	878.5	0.00	0.00	0.00	0.00	
3,447.3	45.00	285.19	0	3,140.0	238.9	-880.1	911.9	911.9	0.00	0.00	0.00	0.00	
3,500.0	45.00	285.19	0	3,177.3	248.7	-916.0	949.2	949.2	0.00	0.00	0.00	0.00	