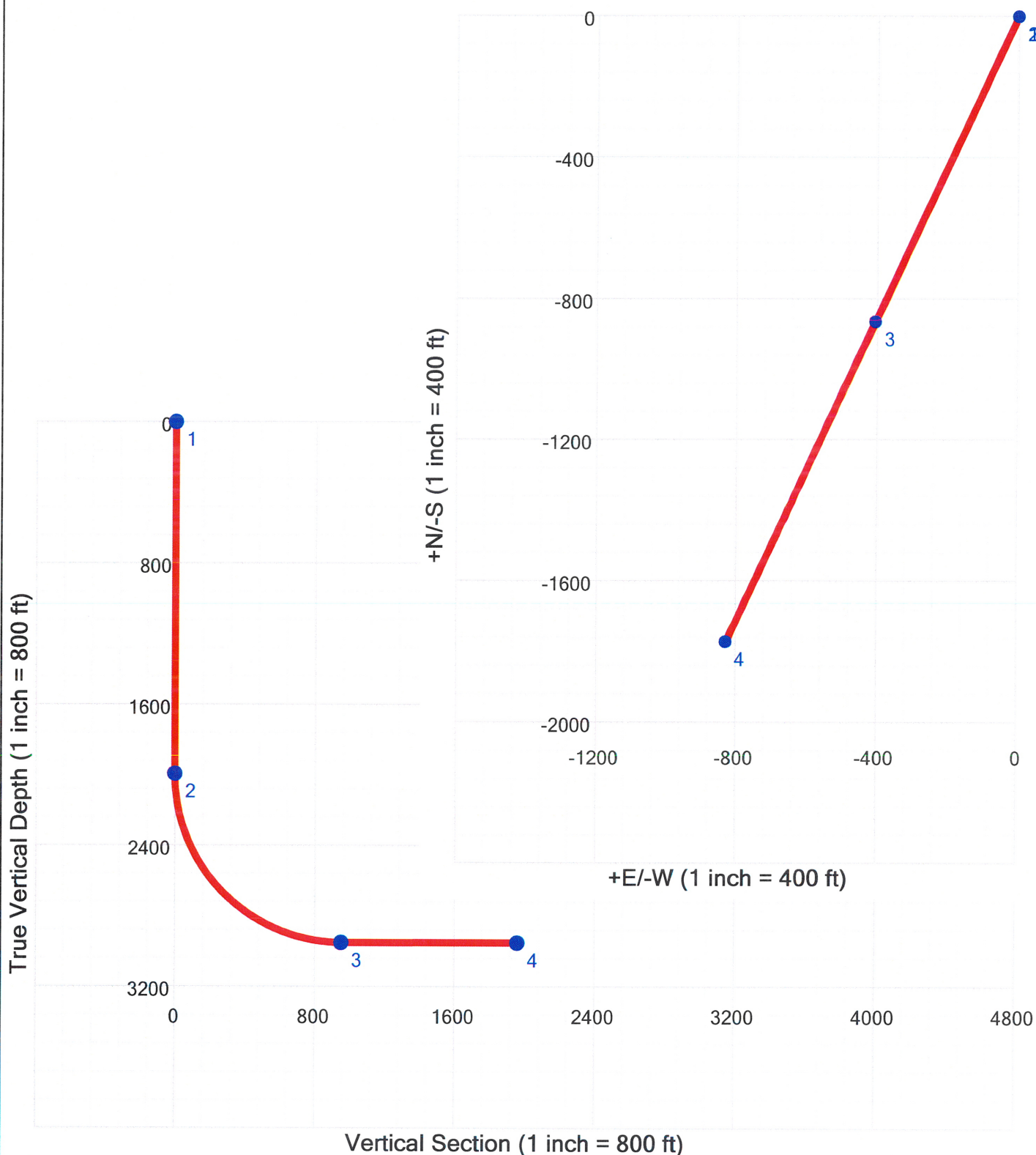


Wall Plot



#	MD	Inc	Azi	TVD	+N/-S	+E/-W	DL	TFO	VS	Comments	Company:	Project:	Well:	By:	Date:	Vertical section azimuth:	Survey calculation method:	Units:
1	0.0	0.00	205.00	0.0	0.0	0.0	0.00	0.00	0.0		PRO&G	Mackinaw 21-28_Ver 2				205.00°	Minimum Curvature	Length - ft, Dogleg - °/100ft
2	1995.1	0.00	205.00	1995.1	0.0	0.0	0.00	0.00	0.0	KOP				Moe Felman	8/24/2010			
3	3495.1	90.00	205.00	2950.1	-865.4	-403.5	6.00	0.00	954.9	EOB								
4	4496.3	90.00	205.00	2950.1	-1772.8	-826.7	0.00	0.00	1956.1									



Survey

MD	Inclination	Azimuth	Tie-In	TVD	NS	EW	HD	VS@205	DL	BR	TR	TFO	Comments
0.0	0.00	205.00	1	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
100.0	0.00	205.00	0	100.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	205.00	0	200.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
300.0	0.00	205.00	0	300.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
400.0	0.00	205.00	0	400.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
500.0	0.00	205.00	0	500.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	205.00	0	600.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
700.0	0.00	205.00	0	700.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
800.0	0.00	205.00	0	800.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
900.0	0.00	205.00	0	900.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	205.00	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	205.00	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	205.00	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	205.00	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	205.00	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	205.00	0	1,500.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,600.0	0.00	205.00	0	1,600.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,700.0	0.00	205.00	0	1,700.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,800.0	0.00	205.00	0	1,800.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,900.0	0.00	205.00	0	1,900.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,995.1	0.00	205.00	0	1,995.1	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	KOP
2,000.0	0.29	205.00	0	2,000.0	0.0	0.0	0.0	0.0	5.92	5.92	0.00	0.00	
2,100.0	6.29	205.00	0	2,099.8	-5.2	-2.4	5.7	5.7	6.00	6.00	0.00	0.00	
2,200.0	12.29	205.00	0	2,198.4	-19.8	-9.2	21.9	21.9	6.00	6.00	0.00	0.00	
2,300.0	18.29	205.00	0	2,294.8	-43.7	-20.4	48.2	48.2	6.00	6.00	0.00	0.00	
2,400.0	24.29	205.00	0	2,388.0	-76.6	-35.7	84.5	84.5	6.00	6.00	0.00	0.00	
2,500.0	30.29	205.00	0	2,476.8	-118.1	-55.1	130.4	130.4	6.00	6.00	0.00	0.00	
2,600.0	36.29	205.00	0	2,560.4	-167.9	-78.3	185.2	185.2	6.00	6.00	0.00	0.00	
2,700.0	42.29	205.00	0	2,637.7	-225.2	-105.0	248.5	248.5	6.00	6.00	0.00	0.00	
2,800.0	48.29	205.00	0	2,708.0	-289.6	-135.1	319.6	319.6	6.00	6.00	0.00	0.00	
2,900.0	54.29	205.00	0	2,770.6	-360.3	-168.0	397.6	397.6	6.00	6.00	0.00	0.00	
3,000.0	60.29	205.00	0	2,824.6	-436.5	-203.6	481.7	481.7	6.00	6.00	0.00	0.00	
3,100.0	66.29	205.00	0	2,869.5	-517.5	-241.3	570.9	570.9	6.00	6.00	0.00	0.00	
3,200.0	72.29	205.00	0	2,904.8	-602.2	-280.8	664.4	664.4	6.00	6.00	0.00	0.00	
3,300.0	78.29	205.00	0	2,930.2	-689.8	-321.7	761.1	761.1	6.00	6.00	0.00	0.00	
3,400.0	84.29	205.00	0	2,945.4	-779.4	-363.4	859.9	859.9	6.00	6.00	0.00	0.00	
3,495.1	90.00	205.00	0	2,950.1	-865.4	-403.5	954.9	954.9	6.00	6.00	0.00	0.00	EOB
3,500.0	90.00	205.00	0	2,950.1	-869.8	-405.6	959.8	959.8	0.00	0.00	0.00	0.00	
3,600.0	90.00	205.00	0	2,950.1	-960.5	-447.9	1,059.8	1,059.8	0.00	0.00	0.00	0.00	
3,700.0	90.00	205.00	0	2,950.1	-1,051.1	-490.1	1,159.8	1,159.8	0.00	0.00	0.00	0.00	
3,800.0	90.00	205.00	0	2,950.1	-1,141.7	-532.4	1,259.8	1,259.8	0.00	0.00	0.00	0.00	
3,900.0	90.00	205.00	0	2,950.1	-1,232.4	-574.7	1,359.8	1,359.8	0.00	0.00	0.00	0.00	
4,000.0	90.00	205.00	0	2,950.1	-1,323.0	-616.9	1,459.8	1,459.8	0.00	0.00	0.00	0.00	
4,100.0	90.00	205.00	0	2,950.1	-1,413.6	-659.2	1,559.8	1,559.8	0.00	0.00	0.00	0.00	
4,200.0	90.00	205.00	0	2,950.1	-1,504.3	-701.4	1,659.8	1,659.8	0.00	0.00	0.00	0.00	
4,300.0	90.00	205.00	0	2,950.1	-1,594.9	-743.7	1,759.8	1,759.8	0.00	0.00	0.00	0.00	
4,400.0	90.00	205.00	0	2,950.1	-1,685.5	-786.0	1,859.8	1,859.8	0.00	0.00	0.00	0.00	
4,496.3	90.00	205.00	0	2,950.1	-1,772.8	-826.7	1,956.1	1,956.1	0.00	0.00	0.00	0.00	