



## Survey

MD	Inclination	Azimuth	Tie-In	TVD	NS	EW	HD	VS@347°	DL	BR	TR	TFO	Comments
0.0	0.00	346.96	1	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
100.0	0.00	346.96	0	100.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	346.96	0	200.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
300.0	0.00	346.96	0	300.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
400.0	0.00	346.96	0	400.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
500.0	0.00	346.96	0	500.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	346.96	0	600.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
700.0	0.00	346.96	0	700.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
800.0	0.00	346.96	0	800.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
900.0	0.00	346.96	0	900.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	346.96	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	346.96	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	346.96	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	346.96	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	346.96	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	346.96	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	346.96	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	346.96	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	346.96	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	346.96	0	1,900.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	346.96	0	2,000.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,100.0	0.00	346.96	0	2,100.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,200.0	0.00	346.96	0	2,200.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,300.0	0.00	346.96	0	2,300.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,367.1	0.00	346.96	0	2,367.1	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	KOP
2,400.0	1.97	346.96	0	2,400.0	0.6	-0.1	0.6	0.6	5.99	5.99	0.00	0.00	
2,500.0	7.97	346.96	0	2,499.6	9.0	-2.1	9.2	9.2	6.00	6.00	0.00	0.00	
2,600.0	13.97	346.96	0	2,597.7	27.5	-6.4	28.2	28.2	6.00	6.00	0.00	0.00	
2,700.0	19.97	346.96	0	2,693.3	55.9	-13.0	57.4	57.4	6.00	6.00	0.00	0.00	
2,800.0	25.97	346.96	0	2,785.3	93.9	-21.8	96.4	96.4	6.00	6.00	0.00	0.00	
2,900.0	31.97	346.96	0	2,872.8	141.1	-32.7	144.8	144.8	6.00	6.00	0.00	0.00	
3,000.0	37.97	346.96	0	2,954.7	196.9	-45.6	202.1	202.1	6.00	6.00	0.00	0.00	
3,100.0	43.97	346.96	0	3,030.2	260.8	-60.4	267.7	267.7	6.00	6.00	0.00	0.00	
3,200.0	49.97	346.96	0	3,098.4	331.9	-76.9	340.7	340.7	6.00	6.00	0.00	0.00	
3,300.0	55.97	346.96	0	3,158.6	409.7	-94.9	420.5	420.5	6.00	6.00	0.00	0.00	
3,400.0	61.97	346.96	0	3,210.1	493.1	-114.2	506.2	506.2	6.00	6.00	0.00	0.00	
3,500.0	67.97	346.96	0	3,252.4	581.4	-134.6	596.7	596.7	6.00	6.00	0.00	0.00	
3,600.0	73.97	346.96	0	3,285.0	673.4	-156.0	691.2	691.2	6.00	6.00	0.00	0.00	
3,700.0	79.97	346.96	0	3,307.5	768.3	-177.9	788.6	788.6	6.00	6.00	0.00	0.00	
3,800.0	85.97	346.96	0	3,319.7	864.9	-200.3	887.8	887.8	6.00	6.00	0.00	0.00	
3,879.6	90.75	346.96	0	3,322.0	942.4	-218.3	967.4	967.4	6.01	6.01	0.00	0.00	EOB
3,900.0	90.75	346.96	0	3,321.7	962.3	-222.9	987.8	987.8	0.00	0.00	0.00	0.00	
4,000.0	90.75	346.96	0	3,320.4	1,059.7	-245.4	1,087.8	1,087.8	0.00	0.00	0.00	0.00	
4,100.0	90.75	346.96	0	3,319.1	1,157.1	-268.0	1,187.7	1,187.7	0.00	0.00	0.00	0.00	
4,200.0	90.75	346.96	0	3,317.8	1,254.5	-290.6	1,287.7	1,287.7	0.00	0.00	0.00	0.00	
4,300.0	90.75	346.96	0	3,316.5	1,351.9	-313.1	1,387.7	1,387.7	0.00	0.00	0.00	0.00	
4,400.0	90.75	346.96	0	3,315.2	1,449.4	-335.7	1,487.7	1,487.7	0.00	0.00	0.00	0.00	
4,500.0	90.75	346.96	0	3,313.9	1,546.8	-358.2	1,587.7	1,587.7	0.00	0.00	0.00	0.00	
4,600.0	90.75	346.96	0	3,312.6	1,644.2	-380.8	1,687.7	1,687.7	0.00	0.00	0.00	0.00	
4,700.0	90.75	346.96	0	3,311.3	1,741.6	-403.4	1,787.7	1,787.7	0.00	0.00	0.00	0.00	
4,800.0	90.75	346.96	0	3,310.0	1,839.0	-425.9	1,887.7	1,887.7	0.00	0.00	0.00	0.00	
4,900.0	90.75	346.96	0	3,308.7	1,936.4	-448.5	1,987.7	1,987.7	0.00	0.00	0.00	0.00	
5,000.0	90.75	346.96	0	3,307.3	2,033.8	-471.0	2,087.7	2,087.7	0.00	0.00	0.00	0.00	
5,100.0	90.75	346.96	0	3,306.0	2,131.2	-493.6	2,187.7	2,187.7	0.00	0.00	0.00	0.00	
5,200.0	90.75	346.96	0	3,304.7	2,228.7	-516.2	2,287.7	2,287.7	0.00	0.00	0.00	0.00	



## Survey (Continued)

MD	Inclination	Azimuth	Tie-In	TVD	NS	EW	HD	VS@347°	DL	BR	TR	TFO	Comments
5,300.0	90.75	346.96	0	3,303.4	2,326.1	-538.7	2,387.6	2,387.6	0.00	0.00	0.00	0.00	
5,400.0	90.75	346.96	0	3,302.1	2,423.5	-561.3	2,487.6	2,487.6	0.00	0.00	0.00	0.00	
5,500.0	90.75	346.96	0	3,300.8	2,520.9	-583.8	2,587.6	2,587.6	0.00	0.00	0.00	0.00	
5,554.4	90.75	346.96	0	3,300.1	2,573.9	-596.1	2,642.0	2,642.0	0.00	0.00	0.00	0.00	TD