

**GyroTracer Directional:**

Date: 10/24/2017  
 Operator : Ashton Williams  
 API: 05-123-26066  
 Well Number : 70 Ranch USX BB 23-2  
 Field : Noble Energy Inc.  
 Tool Type And Number: 1602  
 Bottom Depth : 6425.00  
 Well Total Depth: 6721.00  
 Latitude : 40.39  
 Longitude : 104.40  
 Grid Offset : 0.71

**Starting Point Coordinates (in local grid):**

Northing: 0.00      Easting: 0.00      Altitude: 4611.00

**Description:**

*Azimuth measured in degrees and referenced to local grid*

*Inclination measured from Vertical*

*Length measured in feet*

*Temperature measured in Fahrenheit degrees*

Start Time: 10/24/2017 11:57

End Time: 10/24/2017 12:55

Depth	Inclination	Azimuth	Closure Direction	True Depth	Coordinates		Dogleg Severity	Closure Distance
					+N/-S	+E/-W		
0.00	0.00	0.00	0.00	-4611.00	0.00	0.00	0.00	0.00
100.00	0.16	245.63	247.07	-4511.00	-0.11	-0.26	0.16	0.28
200.00	0.29	253.22	265.44	-4411.00	-0.05	-0.67	0.12	0.67
300.00	0.29	277.97	267.27	-4311.00	-0.06	-1.29	0.13	1.29
400.00	0.33	278.30	268.26	-4211.01	-0.06	-1.94	0.06	1.94
500.00	0.37	285.87	266.12	-4111.01	-0.18	-2.71	0.06	2.71
600.00	0.49	266.14	267.52	-4011.01	-0.15	-3.42	0.22	3.42
700.00	0.51	333.17	288.59	-3911.02	1.22	-3.61	0.65	3.81
800.00	0.54	342.55	303.64	-3811.03	2.55	-3.83	0.04	4.60
900.00	0.42	208.71	305.50	-3711.04	2.59	-3.63	0.98	4.46
1000.00	0.60	59.27	306.07	-3611.04	2.53	-3.48	0.75	4.30
1100.00	0.16	329.49	309.19	-3511.04	2.84	-3.48	0.52	4.49
1200.00	0.28	203.79	310.50	-3411.04	2.97	-3.47	0.44	4.57
1300.00	0.30	113.12	314.77	-3311.04	3.08	-3.11	0.52	4.37
1400.00	0.20	177.12	320.99	-3211.05	3.30	-2.67	0.21	4.25
1500.00	0.52	322.22	322.35	-3111.05	3.50	-2.70	0.79	4.41
1600.00	0.14	283.52	318.89	-3011.05	3.36	-2.93	0.19	4.46
1700.00	0.08	337.07	323.69	-2911.05	3.80	-2.79	0.31	4.72
1800.00	0.72	52.34	324.64	-2811.06	3.52	-2.50	0.58	4.31
1900.00	0.47	174.99	325.24	-2711.06	3.50	-2.43	1.00	4.26
2000.00	0.11	305.13	319.77	-2611.06	3.50	-2.96	0.59	4.58
2100.00	0.62	276.34	320.31	-2511.07	3.71	-3.08	0.36	4.82
2200.00	0.46	119.74	319.95	-2411.07	3.71	-3.12	0.72	4.85

2300.00	0.42	238.26	318.08	-2311.07	3.55	-3.19	0.53	4.77
2400.00	0.17	343.37	320.88	-2211.08	3.51	-2.86	0.54	4.53
2500.00	0.22	240.64	324.40	-2111.08	3.58	-2.56	0.48	4.40
2600.00	0.36	356.67	327.48	-2011.08	3.49	-2.23	0.45	4.14
2700.00	0.46	344.28	328.41	-1911.08	3.35	-2.06	0.17	3.94
2800.00	0.32	264.98	326.94	-1811.08	3.30	-2.15	0.62	3.94
2900.00	0.45	111.55	325.03	-1711.09	2.89	-2.02	0.83	3.53
3000.00	0.14	30.93	324.83	-1611.09	3.15	-2.22	0.34	3.85
3100.00	0.33	165.56	319.72	-1511.09	2.99	-2.54	0.63	3.92
3200.00	0.31	247.29	321.06	-1411.09	3.10	-2.51	0.54	3.99
3300.00	0.09	64.25	319.62	-1311.09	3.03	-2.58	0.42	3.98
3400.00	0.44	306.14	324.71	-1211.09	3.37	-2.39	0.47	4.13
3500.00	0.20	198.23	323.71	-1111.10	3.14	-2.31	0.59	3.90
3600.00	0.24	94.88	321.07	-1011.10	2.99	-2.42	0.31	3.85
3700.00	0.52	143.17	321.23	-911.10	2.77	-2.22	0.22	3.55
3800.00	0.46	262.58	318.00	-811.10	2.46	-2.21	0.85	3.31
3900.00	0.26	217.98	314.36	-711.10	2.44	-2.49	0.21	3.49
4000.00	0.69	336.83	309.46	-611.11	2.35	-2.86	0.77	3.70
4100.00	0.48	245.82	305.30	-511.11	2.30	-3.25	0.62	3.98
4200.00	0.43	317.27	308.93	-411.12	2.20	-2.72	0.83	3.50
4300.00	0.63	326.19	311.93	-311.12	2.69	-3.00	0.40	4.03
4400.00	0.26	121.32	311.48	-211.12	2.45	-2.77	0.72	3.69
4500.00	0.47	210.11	308.80	-111.13	2.22	-2.76	0.48	3.54
4600.00	0.53	16.63	315.32	-11.13	2.62	-2.59	0.80	3.68
4700.00	0.37	64.99	322.68	88.87	2.84	-2.16	0.34	3.57
4800.00	0.50	320.89	321.00	188.87	2.96	-2.40	0.55	3.81
4900.00	0.54	315.35	317.04	288.86	3.14	-2.92	0.08	4.29
5000.00	0.50	223.81	316.29	388.86	2.87	-2.75	0.62	3.98
5100.00	0.54	283.07	320.85	488.86	3.31	-2.70	0.61	4.27
5200.00	0.27	78.31	318.88	588.85	2.89	-2.52	0.94	3.84
5300.00	0.58	266.36	319.70	688.85	3.04	-2.58	0.91	3.99
5400.00	0.19	59.70	321.19	788.85	2.93	-2.36	0.78	3.76
5500.00	0.57	83.98	317.22	888.84	2.99	-2.77	0.60	4.08
5600.00	0.39	81.18	319.93	988.84	3.00	-2.52	0.24	3.92
5700.00	0.58	133.18	324.38	1088.84	2.77	-1.98	0.36	3.41
5800.00	0.05	252.61	324.14	1188.84	2.91	-2.10	0.50	3.59
5900.00	0.21	260.24	321.20	1288.83	2.76	-2.22	0.15	3.54
6000.00	0.46	121.14	325.14	1388.83	2.86	-1.99	0.61	3.48
6100.00	0.37	277.12	319.30	1488.83	2.82	-2.43	0.76	3.72
6200.00	0.47	260.37	319.08	1588.83	3.06	-2.65	0.68	4.05
6300.00	0.35	166.64	318.63	1688.83	2.78	-2.45	0.67	3.71
6400.00	0.08	215.00	316.83	1788.83	2.97	-2.79	0.38	4.08
6425.00	0.27	100.33	317.40	1813.83	2.94	-2.71	0.70	4.00



Temp
0.00
75.12
74.90
74.63
74.10
73.99
73.87
73.78
73.76
73.79
73.85
75.89
76.12
76.37
76.73
76.91
77.24
77.61
78.04
78.48
79.01
79.58
80.21

81.04
81.99
92.81
93.73
94.63
95.75
96.76
98.12
99.99
101.95
103.72
116.29
117.31
118.28
119.42
120.77
121.76
122.74
124.24
124.66
125.80
126.99
128.32
129.42
143.24
144.32
145.43
146.63
147.75
149.28
150.27
151.74
153.12
155.04
156.16
157.97
159.97
179.48
181.16
182.71
184.39
186.14
186.31