

GyroTracer Directional:

Date: 11/27/2017
 Operator : David England
 API : 05-123-33552
 Well Number : PIONEER Y07-07D
 Field : Noble Energy INC
 Tool Type And Number: 1213
 Total Well Depth: 7702
 Bottom Depth : 7400.00
 Latitude : 40.15
 Longitude : 104.59
 Grid Offset : 0.59

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

Northing: 0.00 Easting: 0.00 Altitude: 4860.00

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: 11/27/2017 9:45

End Time: 11/27/2017 11:24

Depth	Inclination	Azimuth	Closure Direction	True Depth	Coordinates		Dogleg Severity	Closure Distance
					+N/-S	+E/-W		
0.00	0.00	0.00	0.00	-4860.00	0.00	0.00	0.00	0.00
100.00	0.16	73.70	0.00	-4760.00	0.27	0.00	0.16	0.27
200.00	0.38	316.52	342.06	-4660.00	0.61	-0.20	0.47	0.64
300.00	0.39	317.56	352.39	-4560.00	0.81	-0.11	0.06	0.82
400.00	0.34	344.71	329.50	-4460.00	0.93	-0.55	0.12	1.08
500.00	0.41	334.09	324.32	-4360.01	1.22	-0.87	0.09	1.50
600.00	0.27	81.57	332.95	-4260.01	1.31	-0.67	0.50	1.48
700.00	0.38	90.27	9.49	-4160.01	1.30	0.22	0.09	1.32
800.00	1.04	96.03	52.57	-4060.02	1.13	1.48	0.67	1.86
900.00	1.03	118.11	77.73	-3960.04	0.65	2.99	0.39	3.06
1000.00	0.54	24.76	78.87	-3860.04	0.77	3.90	1.18	3.98
1100.00	2.79	344.62	37.96	-3760.10	3.43	2.67	2.39	4.35
1200.00	4.95	332.11	358.12	-3660.35	9.73	-0.32	2.31	9.73
1300.00	6.84	332.92	344.73	-3560.90	18.97	-5.18	1.86	19.67
1400.00	8.70	331.59	339.53	-3461.89	31.33	-11.70	1.85	33.44
1500.00	11.14	331.59	336.85	-3363.45	46.83	-20.02	2.41	50.93
1600.00	12.95	329.27	334.93	-3265.74	65.29	-30.54	1.84	72.08
1700.00	14.34	326.12	333.02	-3168.62	85.30	-43.42	1.44	95.71
1800.00	15.09	320.76	330.93	-3071.94	105.73	-58.78	1.41	120.97
1900.00	17.42	313.89	328.26	-2975.78	125.56	-77.67	2.88	147.64
2000.00	19.65	312.66	325.46	-2881.13	147.37	-101.42	2.21	178.90
2100.00	20.88	312.63	323.39	-2787.38	170.95	-127.02	1.21	212.97
2200.00	23.18	313.41	321.81	-2694.83	196.71	-154.77	2.26	250.30

2300.00	25.22	313.14	320.61	-2603.88	225.25	-184.96	2.01	291.46
2400.00	27.95	313.85	319.66	-2514.54	256.14	-217.55	2.74	336.06
2500.00	29.12	314.32	318.97	-2426.92	289.72	-252.11	1.18	384.06
2600.00	29.81	315.58	318.54	-2339.87	324.64	-286.81	0.94	433.19
2700.00	30.35	316.74	318.31	-2253.38	360.90	-321.50	0.80	483.33
2800.00	30.79	316.24	318.12	-2167.50	398.01	-356.83	0.44	534.55
2900.00	30.62	314.87	317.88	-2081.34	434.12	-392.50	0.71	585.25
3000.00	31.72	314.69	317.61	-1995.93	470.61	-429.54	0.86	637.17
3100.00	32.26	315.21	317.41	-1911.24	508.23	-467.14	0.58	690.30
3200.00	31.39	315.52	317.28	-1825.87	545.38	-503.63	0.83	742.35
3300.00	30.41	315.13	317.16	-1740.09	581.98	-539.70	1.01	793.71
3400.00	30.47	314.48	317.01	-1653.93	617.65	-575.81	0.34	844.42
3500.00	30.84	314.45	316.87	-1568.03	653.58	-612.29	0.32	895.58
3600.00	30.53	314.77	316.76	-1482.17	689.70	-648.67	0.33	946.82
3700.00	29.00	314.12	316.65	-1395.14	724.32	-683.70	1.45	996.03
3800.00	28.55	313.74	316.52	-1307.40	757.52	-718.32	0.50	1043.94
3900.00	28.61	315.49	316.45	-1219.57	791.21	-752.25	0.82	1091.74
4000.00	27.89	314.72	316.40	-1131.51	824.95	-785.50	0.82	1139.10
4100.00	26.73	314.75	316.32	-1042.37	856.50	-818.03	1.13	1184.38
4200.00	26.34	315.78	316.27	-952.98	888.28	-849.64	0.54	1229.20
4300.00	27.07	316.40	316.26	-863.60	920.55	-880.79	0.80	1274.05
4400.00	28.08	317.37	316.30	-775.15	954.79	-912.47	1.09	1320.69
4500.00	26.53	317.61	316.34	-686.24	988.57	-943.34	1.56	1366.44
4600.00	25.21	316.88	316.36	-596.05	1020.16	-972.80	1.33	1409.63
4700.00	25.47	314.70	316.34	-505.32	1050.17	-1002.24	0.96	1451.67
4800.00	25.88	313.87	316.27	-415.47	1080.65	-1033.82	0.45	1495.52
4900.00	26.86	315.69	316.23	-325.82	1111.88	-1065.25	1.25	1539.81
5000.00	27.97	318.45	316.26	-237.17	1145.92	-1096.59	1.67	1586.08
5100.00	26.70	319.21	316.34	-148.49	1180.85	-1126.82	1.31	1632.22
5200.00	23.95	316.51	316.38	-57.86	1212.19	-1155.14	2.89	1674.44
5300.00	21.73	313.64	316.35	34.26	1239.73	-1182.58	2.47	1713.31
5400.00	20.67	313.45	316.29	127.76	1264.14	-1208.30	1.04	1748.73
5500.00	19.42	313.61	316.23	221.83	1287.35	-1233.06	1.19	1782.61
5600.00	16.78	315.55	316.20	316.90	1309.00	-1255.19	2.68	1813.56
5700.00	14.96	316.18	316.20	413.07	1328.73	-1274.19	1.79	1840.94
5800.00	12.64	317.87	316.21	510.29	1345.92	-1290.05	2.33	1864.33
5900.00	10.90	319.29	316.25	608.30	1360.95	-1302.99	1.65	1884.14
6000.00	8.86	320.84	316.28	706.83	1374.09	-1313.87	2.04	1901.15
6100.00	7.22	319.94	316.31	805.79	1385.10	-1323.02	1.59	1915.43
6200.00	6.33	319.96	316.32	905.13	1393.64	-1330.72	0.79	1926.92
6300.00	4.43	331.94	316.36	1004.73	1400.95	-1335.74	2.02	1935.68
6400.00	3.76	346.98	316.44	1104.47	1407.51	-1338.63	1.22	1942.42
6500.00	2.09	117.13	316.42	1204.35	1405.03	-1337.14	5.59	1939.60
6600.00	0.43	300.85	316.43	1304.34	1405.51	-1337.23	2.12	1940.01
6700.00	0.46	312.79	316.42	1404.34	1405.91	-1337.83	0.14	1940.71
6800.00	0.39	308.24	316.42	1504.34	1406.54	-1338.45	0.07	1941.60
6900.00	0.27	4.38	316.43	1604.33	1407.20	-1338.55	0.27	1942.14
7000.00	0.27	42.61	316.45	1704.33	1407.72	-1338.19	0.17	1942.28
7100.00	0.36	107.27	316.47	1804.33	1407.85	-1337.62	0.31	1941.97
7200.00	0.23	161.65	316.46	1904.33	1407.58	-1337.53	0.28	1941.72

7300.00	0.33	272.52	316.45	2004.33	1407.36	-1337.70	0.43	1941.67
7400.00	0.32	233.42	316.44	2104.33	1406.96	-1338.03	0.20	1941.61



Temp
0.00
71.74
71.46
71.34
71.29
71.30
71.37
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76.67
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216.11

218.12
228.15