

GyroTracer Directional:

Date: 11/2/2017
 Operator : David England
 API : 05-123-18184
 Well: JEPSEN 22-2
 Field : Noble Energy INC
 Tool Type And Number: 1213
 Well Total Depth: 7470
 Bottom Depth : 7200.00
 Latitude : 40.26
 Longitude : 104.63
 Grid Offset : 0.56

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

Northing: 0.00 Easting: 0.00 Altitude: 4751.00

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: 11/2/2017 8:58

End Time: 11/2/2017 10:27

Depth	Inclination	Azimuth	Closure Direction	True Depth	Coordinates		Dogleg Severity	Closure Distance
					+N/-S	+E/-W		
0.00	0.00	0.00	0.00	-4751.00	0.00	0.00	0.00	0.00
100.00	0.40	288.47	22.87	-4651.00	0.64	0.27	0.40	0.69
200.00	0.06	174.00	5.12	-4551.00	0.86	0.08	0.42	0.87
300.00	0.42	304.96	346.46	-4451.00	1.09	-0.26	0.47	1.12
400.00	0.06	29.48	343.04	-4351.00	1.52	-0.46	0.44	1.59
500.00	0.39	296.91	339.85	-4251.01	1.83	-0.67	0.42	1.95
600.00	0.29	70.64	347.23	-4151.01	2.09	-0.47	0.55	2.15
700.00	0.19	120.27	352.61	-4051.01	2.26	-0.29	0.19	2.27
800.00	0.26	339.19	353.26	-3951.01	2.38	-0.28	0.32	2.39
900.00	0.17	30.51	352.16	-3851.01	2.26	-0.31	0.19	2.28
1000.00	0.18	297.62	353.20	-3751.01	2.44	-0.29	0.24	2.46
1100.00	0.28	330.58	351.26	-3651.01	2.55	-0.39	0.17	2.58
1200.00	0.30	236.01	344.01	-3551.01	2.38	-0.68	0.30	2.48
1300.00	0.51	317.80	341.84	-3451.01	2.80	-0.92	0.28	2.95
1400.00	0.58	314.44	341.12	-3351.02	3.34	-1.14	0.10	3.53
1500.00	0.26	1.37	336.77	-3251.02	4.11	-1.76	0.34	4.47
1600.00	0.20	320.20	336.69	-3151.03	4.83	-2.08	0.29	5.26
1700.00	0.69	319.35	333.75	-3051.03	5.56	-2.74	0.47	6.20
1800.00	0.45	302.55	333.16	-2951.03	6.20	-3.14	0.20	6.95
1900.00	0.54	307.93	334.47	-2851.04	6.80	-3.25	0.21	7.53
2000.00	0.26	326.69	334.33	-2751.04	7.25	-3.48	0.28	8.04
2100.00	0.47	188.95	331.69	-2651.04	6.92	-3.72	0.68	7.85
2200.00	0.67	236.86	324.41	-2551.05	6.08	-4.35	0.65	7.47

2300.00	0.84	247.57	312.96	-2451.06	5.00	-5.37	0.21	7.34
2400.00	1.08	128.35	301.45	-2351.08	3.70	-6.05	1.65	7.09
2500.00	1.96	121.70	295.22	-2251.12	3.65	-7.75	0.91	8.57
2600.00	1.57	162.71	283.04	-2151.18	1.28	-5.52	1.42	5.66
2700.00	1.76	184.26	247.25	-2051.24	-2.04	-4.87	0.61	5.28
2800.00	2.12	212.48	226.60	-1951.30	-5.24	-5.54	0.98	7.63
2900.00	1.76	196.18	219.16	-1851.35	-8.14	-6.63	0.38	10.50
3000.00	1.14	179.47	215.44	-1751.37	-9.96	-7.09	0.68	12.23
3100.00	0.54	160.81	213.20	-1651.38	-11.14	-7.29	0.59	13.32
3200.00	0.72	183.58	209.62	-1551.39	-12.46	-7.08	0.31	14.33
3300.00	0.94	164.04	206.38	-1451.40	-13.69	-6.79	0.41	15.28
3400.00	0.43	145.09	202.78	-1351.40	-14.64	-6.15	0.48	15.87
3500.00	0.93	166.61	201.14	-1251.41	-15.94	-6.16	0.50	17.08
3600.00	0.64	178.53	198.95	-1151.43	-17.56	-6.03	0.50	18.56
3700.00	0.96	182.13	197.50	-1051.44	-19.05	-6.01	0.32	19.98
3800.00	0.80	217.24	197.90	-951.44	-19.81	-6.40	0.54	20.81
3900.00	0.65	216.02	197.42	-851.45	-20.84	-6.54	0.10	21.85
4000.00	0.90	152.16	196.23	-751.45	-21.45	-6.25	0.50	22.35
4100.00	1.01	124.91	193.96	-651.46	-22.35	-5.56	0.50	23.03
4200.00	1.11	149.01	190.46	-551.48	-23.75	-4.39	0.45	24.16
4300.00	1.05	157.03	187.54	-451.50	-25.13	-3.33	0.22	25.35
4400.00	1.15	152.59	184.60	-351.52	-26.66	-2.15	0.10	26.74
4500.00	1.15	128.43	181.18	-251.54	-27.95	-0.58	0.45	27.96
4600.00	1.98	64.19	175.23	-151.59	-26.84	2.24	0.58	26.93
4700.00	2.46	49.42	168.77	-51.66	-25.11	4.99	0.68	25.60
4800.00	2.35	30.93	162.26	48.28	-22.23	7.11	0.66	23.34
4900.00	2.18	25.61	155.22	148.21	-18.78	8.67	0.11	20.69
5000.00	2.08	19.09	147.72	248.13	-15.07	9.52	0.15	17.82
5100.00	1.92	340.60	142.41	348.08	-11.90	9.16	1.22	15.01
5200.00	1.28	252.04	150.31	448.05	-12.49	7.12	2.11	14.38
5300.00	1.14	258.94	155.36	548.04	-12.85	5.90	0.17	14.14
5400.00	1.60	172.85	157.04	648.01	-14.52	6.15	1.88	15.77
5500.00	1.46	136.96	155.50	747.95	-17.27	7.87	0.93	18.98
5600.00	0.82	93.29	150.81	847.94	-17.36	9.70	1.02	19.89
5700.00	0.56	97.49	147.77	947.93	-17.24	10.87	0.35	20.38
5800.00	0.28	162.51	147.47	1047.93	-17.49	11.16	0.59	20.75
5900.00	1.06	154.66	147.90	1147.92	-18.12	11.37	0.80	21.39
6000.00	9.37	128.09	141.22	1247.12	-25.88	20.79	8.20	33.20
6100.00	13.65	127.05	136.06	1345.09	-37.98	36.60	3.82	52.75
6200.00	19.61	129.19	133.29	1440.46	-56.57	60.04	5.91	82.49
6300.00	21.11	131.16	132.45	1534.43	-78.71	86.06	1.62	116.62
6400.00	26.85	133.44	132.61	1625.47	-106.89	116.20	5.75	157.88
6500.00	32.27	131.59	132.52	1711.86	-140.67	153.44	5.41	208.17
6600.00	40.30	132.99	132.52	1791.98	-180.99	197.38	8.08	267.80
6700.00	47.87	132.42	132.53	1863.29	-228.34	248.93	7.48	337.79
6800.00	51.40	133.01	132.63	1926.41	-281.28	305.59	2.89	415.34
6900.00	50.77	133.13	132.70	1989.32	-334.37	362.38	0.60	493.07
7000.00	52.54	132.07	132.65	2051.56	-387.11	420.19	1.94	571.33
7100.00	52.49	132.32	132.61	2111.91	-440.74	479.20	0.22	651.06
7200.00	51.63	132.20	132.57	2173.53	-493.70	537.50	0.86	729.82



Temp
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