



Company: Mendell Energy
Well/API: Pulis 12-8/05-001-08192
Tool Type: North Seeking Rate Gyro
Rig Name: Production/Coretech
County/State: Adams/Colorado
VS-Azi: 0.000 Degrees
Latitude: 39.97456, Longitude: -104.90881
All Azimuths referenced to True North
No Grid Convergence Applied



Depth Reference : RKB= GL Elevation= 5149'

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: msgyro_run01-01-de_01.ut

Minimum Curvature Method

Report Date/Time: 1/16/2018 / 11:59

Lat/Long & Elevation Obtained by Handheld GPS at Wellhead

Handheld GPS Reference: NAD83/ Device Error: +/- 9 Feet

VES Survey International- Denver, CO

Surveyor: Jason Kinchelow / Pulis 12-8

303-853-4976

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	****
100.000	0.225	21.453	100.000	0.183	0.072	0.183	0.196	21.453	0.225
200.000	0.168	334.056	199.999	0.497	0.080	0.497	0.504	9.083	0.166
300.000	0.341	4.637	299.998	0.926	0.039	0.926	0.926	2.438	0.214
400.000	0.174	340.206	399.997	1.365	0.012	1.365	1.365	0.503	0.196
500.000	0.146	357.274	499.997	1.635	-0.046	1.635	1.636	358.405	0.055
600.000	0.235	36.347	599.996	1.927	0.070	1.927	1.929	2.074	0.152
700.000	0.170	268.904	699.996	2.090	0.043	2.090	2.090	1.183	0.364
800.000	0.192	190.436	799.996	1.922	-0.135	1.922	1.927	355.976	0.229
900.000	0.215	229.573	899.995	1.636	-0.308	1.636	1.665	349.339	0.138
1000.000	0.175	205.175	999.994	1.377	-0.515	1.377	1.470	339.480	0.091
1100.000	0.447	219.064	1099.993	0.936	-0.826	0.936	1.249	318.585	0.280
1200.000	0.350	188.154	1199.991	0.332	-1.115	0.332	1.163	286.563	0.232
1300.000	0.081	182.470	1299.990	-0.041	-1.161	-0.041	1.162	267.970	0.269
1400.000	0.545	201.012	1399.988	-0.556	-1.335	-0.556	1.446	247.396	0.469
1500.000	0.315	186.973	1499.985	-1.272	-1.539	-1.272	1.996	230.415	0.251
1600.000	0.281	176.719	1599.984	-1.789	-1.558	-1.789	2.372	221.047	0.063
1700.000	0.180	165.779	1699.983	-2.186	-1.505	-2.186	2.654	214.558	0.110
1800.000	0.129	122.146	1799.983	-2.398	-1.371	-2.398	2.762	209.767	0.124

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1900.000	0.229	230.295	1899.982	-2.585	-1.430	-2.585	2.954	208.938	0.296
2000.000	0.286	242.728	1999.981	-2.828	-1.806	-2.828	3.355	212.558	0.080
2100.000	0.381	233.727	2099.980	-3.139	-2.296	-3.139	3.889	216.181	0.108
2200.000	0.286	260.386	2199.978	-3.378	-2.811	-3.378	4.394	219.764	0.180
2300.000	0.299	298.637	2299.977	-3.295	-3.286	-3.295	4.653	224.924	0.192
2400.000	0.596	284.123	2399.974	-3.043	-4.019	-3.043	5.041	232.874	0.316
2500.000	0.815	307.363	2499.966	-2.484	-5.089	-2.484	5.663	243.980	0.356
2600.000	1.000	307.369	2599.954	-1.523	-6.348	-1.523	6.528	256.506	0.185
2700.000	0.930	315.479	2699.940	-0.415	-7.610	-0.415	7.622	266.881	0.153
2800.000	0.927	307.388	2799.926	0.656	-8.823	0.656	8.847	274.249	0.131
2900.000	1.138	299.781	2899.910	1.640	-10.328	1.640	10.457	279.025	0.251
3000.000	0.984	288.293	2999.893	2.403	-12.005	2.403	12.244	281.320	0.262
3100.000	1.084	296.747	3099.877	3.099	-13.666	3.099	14.012	282.775	0.182
3200.000	1.191	297.156	3199.857	3.999	-15.435	3.999	15.945	284.524	0.107
3300.000	0.983	310.697	3299.839	5.033	-17.011	5.033	17.740	286.481	0.329
3400.000	1.024	311.471	3399.824	6.184	-18.331	6.184	19.346	288.642	0.043
3500.000	0.877	319.702	3499.810	7.360	-19.496	7.360	20.839	290.682	0.200
3600.000	0.768	326.941	3599.800	8.505	-20.356	8.505	22.062	292.676	0.151
3700.000	0.787	313.604	3699.791	9.541	-21.219	9.541	23.266	294.209	0.182
3800.000	0.996	330.825	3799.779	10.774	-22.141	10.774	24.623	295.947	0.338