



Company: SRC Energy
Well/API#: Goetzel 29-10G6/05-123-18602
Tool Type: North Seeking Rate Gyro
Rig Name: Production
County/State: Weld/Colorado
VS-Azi: 0.000 Degrees
Latitude: 40.45670, Longitude: -104.79895
All Azimuths referenced to True North
No Grid Correction Applied



FIELD COPY ONLY (NOT DEFINITIVE)

Depth Reference : RKB=GL Elevation=4732 Feet

DRILLOG MS GYRO SURVEY CALCULATIONS
Error Model: VESSI_GYROFLEX_SLICKLINE.IPM
Filename: msgyro_run01-01-de_01.ut
Minimum Curvature Method
Report Date/Time: 12/11/2017 / 16:15

Lat/Long Obtained By Handheld GPS At Wellhead
Handheld GPS Reference:NAD83/Device Error:±9 Feet
VES Survey International - Denver CO
303-853-4976
Geof Davis

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	0.318	147.512	99.999	-0.234	0.149	-0.234	0.278	147.512	0.318
200.000	0.527	167.030	199.997	-0.917	0.401	-0.917	1.001	156.349	0.251
300.000	0.430	229.880	299.994	-1.607	0.218	-1.607	1.621	172.279	0.506
400.000	0.319	37.362	399.993	-1.627	0.100	-1.627	1.630	176.478	0.745
500.000	1.002	114.443	499.987	-1.767	1.065	-1.767	2.063	148.919	0.981
600.000	1.305	90.458	599.967	-2.138	3.000	-2.138	3.684	125.478	0.564
700.000	1.718	101.763	699.933	-2.453	5.606	-2.453	6.119	113.630	0.507
800.000	2.158	95.893	799.875	-2.951	8.946	-2.951	9.420	108.259	0.482
900.000	2.403	92.605	899.796	-3.240	12.912	-3.240	13.312	104.086	0.278
1000.000	2.654	90.452	999.699	-3.353	17.322	-3.353	17.643	100.957	0.269
1100.000	2.988	93.938	1099.577	-3.551	22.237	-3.551	22.518	99.072	0.375
1200.000	3.102	104.592	1199.437	-4.411	27.455	-4.411	27.807	99.128	0.576
1300.000	3.196	102.044	1299.286	-5.675	32.800	-5.675	33.287	99.816	0.168
1400.000	3.072	90.308	1399.137	-6.271	38.206	-6.271	38.717	99.321	0.652
1500.000	2.709	97.244	1499.010	-6.583	43.230	-6.583	43.728	98.659	0.504
1600.000	2.191	98.367	1598.919	-7.159	47.465	-7.159	48.002	98.578	0.520
1700.000	1.873	95.047	1698.856	-7.581	50.983	-7.581	51.544	98.458	0.339
1800.000	1.820	71.538	1798.805	-7.222	54.117	-7.222	54.597	97.601	0.754
1900.000	1.383	60.005	1898.766	-6.116	56.669	-6.116	56.998	96.160	0.541
2000.000	1.632	70.169	1998.732	-5.029	59.054	-5.029	59.268	94.868	0.364
2100.000	1.247	73.326	2098.700	-4.234	61.436	-4.234	61.582	93.942	0.393
2200.000	1.258	57.806	2198.676	-3.337	63.408	-3.337	63.495	93.012	0.338
2300.000	1.190	19.369	2298.655	-1.772	64.681	-1.772	64.705	91.570	0.808
2400.000	1.242	13.028	2398.633	0.263	65.270	0.263	65.270	89.769	0.144
2500.000	1.320	6.212	2498.608	2.464	65.639	2.464	65.685	87.850	0.171
2600.000	1.853	9.171	2598.569	5.206	66.021	5.206	66.226	85.491	0.539
2700.000	3.147	8.929	2698.472	9.515	66.705	9.515	67.380	81.882	1.294
2800.000	4.530	10.172	2798.245	16.114	67.828	16.114	69.716	76.636	1.386
2900.000	6.000	359.454	2897.823	25.228	68.476	25.228	72.976	69.775	1.762
3000.000	7.035	355.579	2997.176	36.560	67.954	36.560	77.165	61.720	1.124
3100.000	6.951	358.566	3096.432	48.714	67.331	48.714	83.105	54.114	0.373

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
3200.000	5.623	1.454	3195.829	59.661	67.304	59.661	89.940	48.445	1.364
3300.000	4.216	355.704	3295.458	68.225	67.152	68.225	95.729	44.546	1.489
3400.000	3.567	355.534	3395.227	74.993	66.635	74.993	100.320	41.623	0.649
3500.000	3.067	355.358	3495.059	80.760	66.176	80.760	104.410	39.332	0.501
3600.000	2.792	0.405	3594.929	85.862	65.977	85.862	108.283	37.539	0.376
3700.000	2.627	352.972	3694.817	90.572	65.714	90.572	111.900	35.962	0.388
3800.000	2.620	348.797	3794.713	95.088	64.989	95.088	115.175	34.351	0.191
3900.000	2.097	333.701	3894.628	98.970	63.735	98.970	117.716	32.781	0.808
4000.000	2.442	338.941	3994.550	102.598	62.159	102.598	119.958	31.210	0.402
4100.000	2.150	334.888	4094.470	106.284	60.597	106.284	122.345	29.689	0.334
4200.000	1.820	326.804	4194.410	109.311	58.932	109.311	124.185	28.330	0.432
4300.000	1.583	338.456	4294.366	111.924	57.556	111.924	125.856	27.214	0.418
4400.000	1.677	333.849	4394.325	114.522	56.404	114.522	127.659	26.221	0.161
4500.000	1.036	349.975	4494.297	116.726	55.601	116.726	129.292	25.470	0.740
4600.000	0.607	323.213	4594.287	118.041	55.127	118.041	130.279	25.033	0.564
4700.000	1.084	334.942	4694.276	119.322	54.409	119.322	131.141	24.512	0.504
4800.000	0.862	332.027	4794.262	120.843	53.655	120.843	132.219	23.942	0.227
4900.000	0.393	324.497	4894.255	121.787	53.103	121.787	132.861	23.559	0.476
5000.000	0.337	348.949	4994.253	122.354	52.848	122.354	133.279	23.361	0.164
5100.000	0.375	341.234	5094.251	122.952	52.686	122.952	133.765	23.196	0.061
5200.000	0.153	91.816	5194.251	123.257	52.714	123.257	134.057	23.155	0.452
5300.000	0.485	37.025	5294.249	123.592	53.103	123.592	134.517	23.251	0.416
5400.000	0.578	62.823	5394.245	124.160	53.807	124.160	135.318	23.430	0.254
5500.000	0.879	141.055	5494.239	123.794	54.738	123.794	135.356	23.854	0.949
5600.000	1.747	158.874	5594.212	121.775	55.770	121.775	133.939	24.607	0.948
5700.000	1.505	179.482	5694.172	119.041	56.331	119.041	131.696	25.324	0.628
5800.000	1.484	175.515	5794.138	116.437	56.444	116.437	129.397	25.862	0.105
5900.000	1.723	194.362	5894.100	113.689	56.173	113.689	126.810	26.293	0.575
6000.000	1.485	207.682	5994.061	111.086	55.198	111.086	124.044	26.423	0.440
6100.000	1.634	201.465	6094.024	108.611	54.074	108.611	121.328	26.467	0.225
6200.000	1.258	200.360	6193.992	106.255	53.170	106.255	118.816	26.584	0.377
6300.000	1.764	196.594	6293.957	103.751	52.349	103.751	116.209	26.774	0.516
6400.000	1.643	216.649	6393.914	101.125	51.053	101.125	113.282	26.787	0.605
6500.000	1.547	201.426	6493.875	98.718	49.705	98.718	110.525	26.725	0.433
6600.000	2.427	203.167	6593.814	95.515	48.378	95.515	107.068	26.862	0.881
6700.000	2.271	205.946	6693.730	91.787	46.679	91.787	102.974	26.956	0.193
6800.000	3.834	205.128	6793.585	86.978	44.392	86.978	97.651	27.039	1.563
6900.000	4.010	201.124	6893.351	80.690	41.712	80.690	90.834	27.336	0.325
7000.000	4.349	210.011	6993.086	74.145	38.556	74.145	83.571	27.475	0.730
HORIZONTAL DISPLACEMENT IS 83.571 FEET AT 27.475 DEGREES									