



FIELD COPY ONLY (NOT DEFINITIVE)

Depth Reference : KB= GROUND LEVEL

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: run1-01-de\_01.ut

Minimum Curvature Method

Report Date/Time: 10/8/2013 / 15:09

Vaughn Energy Services

Pinedale, Wyoming

866-835-8333

Jay Hinman

Shaw Floyd C Unit #1

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	0.022	229.380	100.000	-0.012	-0.014	-0.012	0.019	229.380	0.022
200.000	0.053	133.197	200.000	-0.056	0.005	-0.056	0.056	175.031	0.059
300.000	0.101	166.602	300.000	-0.173	0.059	-0.173	0.183	161.259	0.064
400.000	0.204	135.579	400.000	-0.386	0.204	-0.386	0.436	152.177	0.128
500.000	0.063	170.143	499.999	-0.567	0.338	-0.567	0.660	149.236	0.156
600.000	0.121	324.262	599.999	-0.535	0.285	-0.535	0.607	151.956	0.180
700.000	0.427	254.727	699.998	-0.548	-0.136	-0.548	0.564	193.957	0.401
800.000	0.491	278.132	799.995	-0.585	-0.920	-0.585	1.091	237.544	0.197
900.000	0.519	274.986	899.991	-0.485	-1.796	-0.485	1.860	254.879	0.039
1000.000	0.559	250.628	999.987	-0.608	-2.707	-0.608	2.775	257.346	0.231
1100.000	0.568	277.424	1099.982	-0.706	-3.659	-0.706	3.727	259.085	0.261
1200.000	0.614	273.419	1199.977	-0.610	-4.686	-0.610	4.725	262.587	0.062
1300.000	0.330	295.749	1299.973	-0.453	-5.480	-0.453	5.499	265.279	0.333
1400.000	0.166	264.906	1399.972	-0.340	-5.884	-0.340	5.894	266.689	0.206
1500.000	0.513	276.564	1499.971	-0.302	-6.473	-0.302	6.480	267.328	0.351
1600.000	0.360	290.975	1599.968	-0.139	-7.211	-0.139	7.212	268.899	0.187
1700.000	0.186	288.868	1699.966	0.026	-7.658	0.026	7.658	270.197	0.174
1800.000	0.357	296.548	1799.965	0.218	-8.090	0.218	8.093	271.544	0.174
1900.000	0.205	232.075	1899.964	0.247	-8.510	0.247	8.513	271.666	0.326
2000.000	0.452	247.754	1999.963	-0.012	-9.016	-0.012	9.016	269.926	0.261
2100.000	0.210	283.919	2099.961	-0.117	-9.559	-0.117	9.560	269.301	0.308
2200.000	0.230	264.968	2199.960	-0.090	-9.937	-0.090	9.937	269.481	0.075
2300.000	0.282	248.499	2299.959	-0.198	-10.365	-0.198	10.367	268.906	0.090
2400.000	0.358	255.464	2399.958	-0.366	-10.897	-0.366	10.903	268.074	0.085
2500.000	0.300	196.004	2499.956	-0.696	-11.271	-0.696	11.292	266.464	0.330
2600.000	0.335	207.610	2599.955	-1.207	-11.478	-1.207	11.542	263.998	0.073
2700.000	0.159	212.935	2699.954	-1.582	-11.689	-1.582	11.796	262.290	0.177
2800.000	0.329	249.449	2799.953	-1.800	-12.033	-1.800	12.167	261.494	0.222
2900.000	0.221	192.642	2899.952	-2.088	-12.344	-2.088	12.520	260.398	0.278
3000.000	0.072	27.706	2999.952	-2.221	-12.357	-2.221	12.555	259.812	0.291
3100.000	0.240	315.532	3099.951	-2.016	-12.474	-2.016	12.636	260.820	0.228

<i>Measured Depth FT</i>	<i>Incl Angle Deg</i>	<i>Drift Direction Deg</i>	<i>TVD FT</i>	<i>+N-S FT</i>	<i>+E-W FT</i>	<i>Vertical Section FT</i>	<i>Closure Distance FT</i>	<i>Closure Direction Deg</i>	<i>Dogleg Severity Deg/100</i>
3200.000	0.069	194.679	3199.951	-1.925	-12.636	-1.925	12.782	261.338	0.281
3300.000	0.306	87.573	3299.951	-1.972	-12.384	-1.972	12.540	260.953	0.333
3400.000	0.380	112.900	3399.949	-2.089	-11.812	-2.089	11.995	259.968	0.167
3500.000	0.289	79.739	3499.947	-2.174	-11.258	-2.174	11.466	259.073	0.210
3600.000	0.298	183.996	3599.947	-2.388	-11.029	-2.388	11.284	257.781	0.463
3700.000	0.216	101.587	3699.946	-2.686	-10.863	-2.686	11.190	256.112	0.344
3800.000	0.304	206.778	3799.945	-2.961	-10.798	-2.961	11.197	254.667	0.416
3900.000	0.171	278.363	3899.944	-3.176	-11.066	-3.176	11.513	253.986	0.298
4000.000	0.379	258.926	3999.943	-3.218	-11.538	-3.218	11.978	254.417	0.224
4100.000	0.135	221.152	4099.942	-3.370	-11.940	-3.370	12.406	254.237	0.284
4200.000	0.164	318.273	4199.942	-3.353	-12.113	-3.353	12.568	254.529	0.225
4300.000	0.546	0.313	4299.940	-2.770	-12.205	-2.770	12.516	257.214	0.438
4400.000	0.726	349.213	4399.934	-1.671	-12.321	-1.671	12.434	262.276	0.218
4500.000	0.689	345.877	4499.926	-0.465	-12.587	-0.465	12.595	267.884	0.055
4600.000	0.723	340.695	4599.919	0.714	-12.942	0.714	12.962	273.156	0.072
4700.000	0.403	7.628	4699.914	1.657	-13.104	1.657	13.208	277.208	0.407
4800.000	0.633	355.392	4799.910	2.556	-13.102	2.556	13.349	281.040	0.254
4900.000	0.611	355.682	4899.904	3.639	-13.186	3.639	13.679	285.427	0.022
5000.000	0.397	354.002	4999.900	4.516	-13.263	4.516	14.010	288.802	0.214
5100.000	0.549	31.639	5099.897	5.269	-13.048	5.269	14.071	291.989	0.338
5200.000	0.472	94.626	5199.893	5.644	-12.386	5.644	13.611	294.497	0.538
5300.000	0.202	332.190	5299.892	5.766	-12.058	5.766	13.366	295.559	0.605
5400.000	0.177	139.938	5399.892	5.804	-12.040	5.804	13.366	295.736	0.377
5500.000	0.358	344.086	5499.892	5.986	-12.026	5.986	13.434	296.462	0.525
5600.000	0.097	113.879	5599.891	6.253	-12.034	6.253	13.562	297.455	0.427
5700.000	0.410	268.048	5699.890	6.206	-12.315	6.206	13.790	296.746	0.500
5800.000	0.085	175.682	5799.889	6.120	-12.667	6.120	14.068	295.786	0.423
5900.000	0.133	232.949	5899.889	5.975	-12.754	5.975	14.084	295.103	0.113
6000.000	0.707	262.561	5999.886	5.825	-13.459	5.825	14.666	293.404	0.595
6100.000	0.528	295.008	6099.881	5.940	-14.489	5.940	15.660	292.294	0.386
6200.000	0.425	298.325	6199.877	6.312	-15.234	6.312	16.490	292.505	0.107
6300.000	0.459	294.733	6299.874	6.655	-15.925	6.655	17.259	292.682	0.044
6400.000	0.328	258.123	6399.872	6.764	-16.569	6.764	17.896	292.208	0.277
6500.000	0.281	289.202	6499.871	6.786	-17.081	6.786	18.379	291.667	0.169
6600.000	0.419	218.275	6599.869	6.579	-17.539	6.579	18.732	290.563	0.422
6700.000	0.698	267.825	6699.865	6.269	-18.374	6.269	19.414	288.839	0.532
6800.000	0.773	234.148	6799.857	5.851	-19.530	5.851	20.388	286.678	0.432
6900.000	0.308	243.052	6899.852	5.334	-20.316	5.334	21.005	284.711	0.471
7000.000	0.694	238.346	6999.848	4.895	-21.071	4.895	21.632	283.077	0.387
7100.000	0.474	196.018	7099.844	4.180	-21.701	4.180	22.100	280.902	0.469
7200.000	0.199	306.611	7199.842	3.886	-21.954	3.886	22.295	280.037	0.575
7300.000	0.526	231.046	7299.841	3.701	-22.450	3.701	22.753	279.361	0.514
7400.000	0.610	241.907	7399.836	3.162	-23.276	3.162	23.490	277.737	0.136
7500.000	0.584	220.993	7499.830	2.527	-24.080	2.527	24.212	275.991	0.218
7600.000	0.301	198.069	7599.827	1.893	-24.496	1.893	24.569	274.418	0.328
7700.000	0.464	324.784	7699.826	1.973	-24.811	1.973	24.889	274.548	0.688

**HORIZONTAL DISPLACEMENT IS  
24.889 FEET AT 274.548 DEGREES**