



Company: PDC
Well: MAXEY 33-24
API: 05-123-19493

Rig Name: Production / VES
State/County: Colorado / Weld County
Latitude: 40.383, Longitude: -104.609
Directions are relative to True North
VS-Azi: 0.000 Degrees



FIELD COPY ONLY (NOT DEFINITIVE)

Depth Reference : RKB = Ground Level

DRILLOG GYRO SURVEY CALCULATIONS

Filename: survey.ut
Minimum Curvature Method
Report Date/Time: 1/16/2014 / 21:30

Vaughn Energy Services
Henderson Colorado
303-853-4976
Surveyor: Dustin Skoruppa

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	0.401	170.341	99.999	-0.345	0.059	-0.345	0.350	170.341	0.401
200.000	0.306	149.599	199.997	-0.921	0.253	-0.921	0.955	164.652	0.158
300.000	0.648	235.923	299.995	-1.468	-0.080	-1.468	1.470	183.131	0.698
400.000	0.586	260.495	399.989	-1.869	-1.053	-1.869	2.145	209.393	0.269
500.000	0.818	221.082	499.982	-2.491	-2.026	-2.491	3.211	219.120	0.521
600.000	0.849	241.038	599.972	-3.388	-3.143	-3.388	4.622	222.854	0.290
700.000	0.749	212.060	699.962	-4.301	-4.138	-4.301	5.968	223.898	0.411
800.000	0.655	248.718	799.955	-5.062	-5.018	-5.062	7.127	224.749	0.450
900.000	1.159	222.380	899.943	-6.016	-6.232	-6.016	8.662	226.008	0.642
1000.000	0.776	213.709	999.928	-7.327	-7.289	-7.327	10.335	224.854	0.409
1100.000	0.371	289.001	1099.924	-7.784	-7.971	-7.784	11.142	225.678	0.770
1200.000	0.939	270.223	1199.917	-7.676	-9.096	-7.676	11.902	229.841	0.600
1300.000	0.234	267.033	1299.912	-7.683	-10.119	-7.683	12.706	232.792	0.706
1400.000	0.024	248.277	1399.911	-7.702	-10.342	-7.702	12.895	233.326	0.211
1500.000	0.281	253.415	1499.911	-7.779	-10.596	-7.779	13.145	233.716	0.257
1600.000	0.699	246.621	1599.907	-8.091	-11.391	-8.091	13.972	234.614	0.421
1700.000	1.062	273.981	1699.895	-8.269	-12.875	-8.269	15.302	237.290	0.546
1800.000	0.364	262.050	1799.887	-8.248	-14.114	-8.248	16.347	239.697	0.709
1900.000	0.352	259.200	1899.885	-8.350	-14.730	-8.350	16.932	240.452	0.022
2000.000	0.260	262.146	1999.884	-8.438	-15.256	-8.438	17.434	241.052	0.092
2100.000	0.458	260.299	2099.882	-8.537	-15.875	-8.537	18.025	241.731	0.198
2200.000	1.143	268.197	2199.871	-8.636	-17.267	-8.636	19.306	243.429	0.693
2300.000	0.968	263.572	2299.854	-8.762	-19.104	-8.762	21.017	245.362	0.194
2400.000	0.681	251.844	2399.844	-9.041	-20.508	-9.041	22.413	246.209	0.332
2500.000	0.878	236.562	2499.835	-9.649	-21.712	-9.649	23.760	246.040	0.285
2600.000	1.099	239.280	2599.820	-10.561	-23.176	-10.561	25.469	245.502	0.225
2700.000	1.241	253.963	2699.799	-11.350	-25.041	-11.350	27.493	245.618	0.331
2800.000	1.318	249.351	2799.774	-12.055	-27.159	-12.055	29.714	246.065	0.128
2900.000	1.032	243.178	2899.753	-12.867	-29.039	-12.867	31.762	246.102	0.312
3000.000	1.204	225.232	2999.734	-14.013	-30.588	-14.013	33.645	245.387	0.388
3100.000	1.311	240.016	3099.711	-15.324	-32.325	-15.324	35.773	244.636	0.341
3200.000	1.045	280.161	3199.691	-15.735	-34.213	-15.735	37.658	245.302	0.846
3300.000	1.244	283.863	3299.671	-15.314	-36.164	-15.314	39.273	247.049	0.212
3400.000	1.383	267.397	3399.645	-15.109	-38.423	-15.109	41.287	248.534	0.401

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
3500.000	1.730	290.177	3499.609	-14.643	-41.046	-14.643	43.580	250.366	0.702
3600.000	1.983	318.918	3599.559	-12.818	-43.600	-12.818	45.445	253.617	0.953
3700.000	2.499	294.088	3699.484	-10.625	-46.727	-10.625	47.919	257.190	1.087
3800.000	2.016	297.654	3799.406	-8.918	-50.275	-8.918	51.060	259.941	0.502
3900.000	2.183	293.193	3899.339	-7.352	-53.584	-7.352	54.086	262.188	0.234
4000.000	1.794	274.472	3999.280	-6.479	-56.896	-6.479	57.263	263.503	0.752
4100.000	1.594	265.250	4099.236	-6.472	-59.843	-6.472	60.192	263.827	0.338
4200.000	2.471	283.581	4199.173	-6.081	-63.324	-6.081	63.616	264.514	1.081
4300.000	2.006	299.517	4299.098	-4.713	-66.943	-4.713	67.108	265.973	0.773
4400.000	2.328	290.076	4399.026	-3.154	-70.373	-3.154	70.444	267.434	0.480
4500.000	2.105	290.107	4498.951	-1.825	-74.005	-1.825	74.028	268.587	0.223
4600.000	1.855	302.794	4598.892	-0.317	-77.091	-0.317	77.092	269.764	0.503
4700.000	2.136	294.130	4698.832	1.322	-80.153	1.322	80.164	270.945	0.411
4800.000	2.325	300.668	4798.756	3.118	-83.598	3.118	83.656	272.136	0.317
4900.000	1.764	294.892	4898.692	4.801	-86.739	4.801	86.872	273.168	0.598
5000.000	1.812	308.228	4998.644	6.427	-89.377	6.427	89.608	274.113	0.418
5100.000	1.959	302.857	5098.590	8.332	-92.055	8.332	92.431	275.172	0.230
5200.000	1.537	299.107	5198.543	9.912	-94.663	9.912	95.180	275.978	0.437
5300.000	0.946	285.013	5298.519	10.779	-96.632	10.779	97.231	276.365	0.661
5400.000	1.175	264.255	5398.502	10.890	-98.449	10.890	99.050	276.312	0.443
5500.000	1.001	249.822	5498.485	10.486	-100.289	10.486	100.836	275.969	0.323
5600.000	0.386	190.219	5598.478	9.853	-101.169	9.853	101.648	275.562	0.872
5700.000	0.661	172.235	5698.473	8.949	-101.151	8.949	101.546	275.056	0.317
5800.000	1.408	165.236	5798.457	7.189	-100.760	7.189	101.016	274.081	0.755
5900.000	0.995	158.326	5898.434	5.194	-100.126	5.194	100.261	272.970	0.436
6000.000	1.572	153.631	5998.409	3.158	-99.196	3.158	99.246	271.824	0.586
6100.000	1.233	168.212	6098.379	0.876	-98.367	0.876	98.371	270.510	0.489
6200.000	0.492	187.347	6198.367	-0.604	-98.202	-0.604	98.204	269.648	0.785
6300.000	0.723	206.905	6298.362	-1.592	-98.543	-1.592	98.555	269.074	0.307
6400.000	0.325	226.185	6398.357	-2.351	-99.032	-2.351	99.060	268.640	0.430
6500.000	0.549	244.196	6498.354	-2.756	-99.668	-2.756	99.706	268.416	0.261
6600.000	0.674	222.746	6598.349	-3.397	-100.499	-3.397	100.557	268.064	0.259
6700.000	0.825	182.873	6698.341	-4.548	-100.935	-4.548	101.037	267.420	0.530
6800.000	0.890	160.677	6798.330	-6.000	-100.714	-6.000	100.893	266.591	0.336
HORIZONTAL DISPLACEMENT IS 100.893 FEET AT 266.591 DEGREES									