



Company: PDC ENERGY

Lease/Well: BAILEY/ #34-2

A.P.I.#: 05-123-19384

Rig Name: PRODUCTION/ V.E.S.

State/County: COLORADO/WELD

Latitude: 40.354, Longitude: -104.538

Directions are relative to True North

VS-Azi: 0.000 Degrees



FIELD COPY ONLY (NOT DEFINITIVE)

Depth Reference : RKB= GROUND LEVEL

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: bailey#34-2-de_01.ut

Minimum Curvature Method

Report Date/Time: 12/6/2014 / 21:40

VES Survey International

Henderson, Colorado

303-853-4976

Jay Hinman

Bailey #34-2

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	0.236	85.824	100.000	0.015	0.206	0.015	0.206	85.824	0.236
200.000	0.333	147.282	199.999	-0.215	0.569	-0.215	0.608	110.685	0.303
300.000	0.398	181.399	299.997	-0.806	0.718	-0.806	1.080	138.334	0.223
400.000	0.398	243.322	399.995	-1.309	0.399	-1.309	1.369	163.043	0.409
500.000	0.373	272.312	499.993	-1.452	-0.236	-1.452	1.471	189.226	0.194
600.000	0.333	282.779	599.991	-1.374	-0.844	-1.374	1.613	211.546	0.076
700.000	0.277	340.650	699.990	-1.082	-1.207	-1.082	1.621	228.116	0.299
800.000	0.181	81.311	799.989	-0.830	-1.131	-0.830	1.403	233.703	0.358
900.000	0.187	94.950	899.988	-0.820	-0.812	-0.820	1.154	224.699	0.044
1000.000	0.210	52.849	999.988	-0.724	-0.504	-0.724	0.882	214.827	0.144
1100.000	0.110	113.544	1099.988	-0.652	-0.269	-0.652	0.705	202.439	0.183
1200.000	0.006	205.490	1199.988	-0.695	-0.183	-0.695	0.718	194.748	0.111
1300.000	0.276	68.454	1299.987	-0.610	0.039	-0.610	0.612	176.345	0.280
1400.000	0.284	57.222	1399.986	-0.388	0.471	-0.388	0.610	129.440	0.055
1500.000	0.269	61.517	1499.985	-0.142	0.886	-0.142	0.898	99.073	0.026
1600.000	0.452	353.810	1599.983	0.362	1.050	0.362	1.111	70.966	0.429
1700.000	0.141	222.949	1699.982	0.664	0.924	0.664	1.138	54.286	0.554
1800.000	0.390	334.956	1799.981	0.883	0.697	0.883	1.124	38.277	0.461
1900.000	0.258	136.273	1899.981	1.028	0.708	1.028	1.249	34.550	0.639
2000.000	0.188	192.806	1999.980	0.706	0.827	0.706	1.087	49.526	0.220
2100.000	0.200	85.857	2099.980	0.559	0.965	0.559	1.115	59.934	0.312
2200.000	0.331	272.083	2199.979	0.582	0.850	0.582	1.030	55.621	0.530
2300.000	0.465	238.381	2299.977	0.379	0.216	0.379	0.436	29.622	0.264
2400.000	0.745	256.833	2399.972	0.018	-0.763	0.018	0.763	271.370	0.337
2500.000	0.999	283.130	2499.960	0.068	-2.245	0.068	2.246	271.739	0.467
2600.000	0.979	301.349	2599.946	0.710	-3.823	0.710	3.889	280.528	0.314
2700.000	1.360	302.264	2699.925	1.788	-5.556	1.788	5.836	287.841	0.381
2800.000	1.148	297.906	2799.901	2.890	-7.444	2.890	7.985	291.219	0.232
2900.000	1.390	302.132	2899.876	4.004	-9.356	4.004	10.177	293.169	0.260
3000.000	1.387	287.997	2999.847	5.023	-11.535	5.023	12.581	293.533	0.342
3100.000	1.201	284.627	3099.821	5.662	-13.700	5.662	14.823	292.454	0.201
3200.000	1.612	274.075	3199.791	6.026	-16.117	6.026	17.207	290.502	0.484
3300.000	2.139	252.722	3299.739	5.572	-19.302	5.572	20.090	286.102	0.867

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
3400.000	2.634	262.897	3399.652	4.734	-23.365	4.734	23.839	281.453	0.649
3500.000	2.934	277.357	3499.535	4.777	-28.183	4.777	28.585	279.620	0.761
3600.000	3.146	280.161	3599.394	5.589	-33.423	5.589	33.887	279.493	0.259
3700.000	3.375	282.466	3699.232	6.709	-38.998	6.709	39.571	279.761	0.263
3800.000	3.349	284.106	3799.060	8.056	-44.705	8.056	45.425	280.215	0.100
3900.000	2.665	280.458	3898.922	9.189	-49.823	9.189	50.663	280.450	0.710
4000.000	2.308	273.658	3998.828	9.740	-54.118	9.740	54.988	280.202	0.462
4100.000	1.841	263.066	4098.763	9.674	-57.722	9.674	58.527	279.515	0.602
4200.000	1.661	273.506	4198.716	9.569	-60.762	9.569	61.511	278.950	0.365
4300.000	1.592	274.159	4298.676	9.758	-63.594	9.758	64.339	278.724	0.071
4400.000	1.486	263.421	4398.640	9.711	-66.268	9.711	66.976	278.337	0.307
4500.000	1.399	256.810	4498.608	9.284	-68.745	9.284	69.369	277.691	0.188
4600.000	1.087	272.347	4598.585	9.044	-70.881	9.044	71.456	277.271	0.456
4700.000	1.736	271.904	4698.554	9.133	-73.343	9.133	73.910	277.098	0.649
4800.000	1.261	275.254	4798.520	9.284	-75.953	9.284	76.518	276.969	0.483
4900.000	1.248	265.277	4898.496	9.295	-78.134	9.295	78.685	276.784	0.219
5000.000	1.291	280.347	4998.472	9.408	-80.328	9.408	80.877	276.680	0.336
5100.000	0.706	272.693	5098.456	9.639	-82.051	9.639	82.615	276.700	0.598
5200.000	0.470	290.240	5198.451	9.810	-83.052	9.810	83.629	276.737	0.294
5300.000	0.509	28.529	5298.448	10.342	-83.224	10.342	83.864	277.084	0.741
5400.000	0.523	314.202	5398.445	11.051	-83.339	11.051	84.069	277.553	0.624
5500.000	0.458	333.130	5498.442	11.726	-83.847	11.726	84.663	277.961	0.173
5600.000	0.761	300.376	5598.436	12.418	-84.600	12.418	85.507	278.351	0.450
5700.000	0.099	3.020	5698.433	12.840	-85.168	12.840	86.131	278.573	0.720
5800.000	0.234	112.486	5798.433	12.848	-84.975	12.848	85.941	278.598	0.283
5900.000	0.201	4.806	5898.432	12.946	-84.772	12.946	85.755	278.683	0.352
6000.000	0.218	149.921	5998.432	12.956	-84.662	12.956	85.648	278.701	0.400
6100.000	0.153	13.305	6098.432	12.922	-84.536	12.922	85.518	278.691	0.346
6200.000	0.093	324.100	6198.432	13.118	-84.553	13.118	85.564	278.819	0.116
6300.000	0.511	70.441	6298.430	13.333	-84.180	13.333	85.229	279.000	0.545
6400.000	0.465	83.731	6398.427	13.527	-83.356	13.527	84.446	279.218	0.122
6500.000	0.444	113.726	6498.424	13.416	-82.597	13.416	83.680	279.226	0.236
HORIZONTAL DISPLACEMENT IS 83.680 FEET AT 279.226 DEGREES									