



Company: Anadarko Petroleum Corp.

Well: Couture #1

Rig: Production/Summit

Location: Weld County, Colorado

Latitude: 40.331670

North Reference: True North

Longitude: -104.976120

Depth Reference: Ground Level

SHL Error: ±9 Feet

Ground Elevation: 4998 Feet

Survey Tool: North Seeking Rate Gyro

Surveyor: Jason Kinchelow

API # 05-123-10867

VS: 0.000

Date: 9/12/14

Field copy only not definitive

Depth	Inc	AzG	N/-S	E/-W	TVD	DL	VS	CD
0.000	0.000	0.000	0.000	0.000	0.000	****	0.000	0.000
100.000	0.555	61.831	0.229	0.427	99.998	0.555	0.229	0.485
200.000	0.481	50.981	0.722	1.180	199.994	0.123	0.722	1.383
300.000	0.250	172.521	0.769	1.535	299.993	0.648	0.769	1.717
400.000	0.773	190.823	-0.110	1.436	399.989	0.541	-0.110	1.441
500.000	1.501	212.870	-1.873	0.599	499.969	0.837	-1.873	1.967
600.000	2.282	223.081	-4.428	-1.472	599.914	0.847	-4.428	4.666
700.000	2.587	235.950	-7.145	-4.701	699.824	0.624	-7.145	8.553
800.000	2.709	229.824	-9.933	-8.377	799.718	0.308	-9.933	12.994
900.000	2.579	225.226	-13.042	-11.780	899.611	0.248	-13.042	17.574
1000.000	2.228	236.539	-15.699	-14.999	999.524	0.589	-15.699	21.712
1100.000	2.361	239.446	-17.817	-18.394	1099.444	0.176	-17.817	25.608
1200.000	2.495	247.875	-19.684	-22.183	1199.354	0.381	-19.684	29.657
1300.000	2.590	245.266	-21.449	-26.252	1299.256	0.150	-21.449	33.900
1400.000	2.452	244.391	-23.319	-30.233	1399.159	0.143	-23.319	38.182
1500.000	2.109	253.435	-24.769	-33.927	1499.080	0.496	-24.769	42.006
1600.000	1.995	255.564	-25.727	-37.376	1599.016	0.138	-25.727	45.375
1700.000	1.682	262.726	-26.347	-40.517	1698.964	0.387	-26.347	48.330
1800.000	1.749	264.266	-26.685	-43.492	1798.920	0.081	-26.685	51.026
1900.000	1.718	253.596	-27.261	-46.448	1898.874	0.324	-27.261	53.857
2000.000	1.488	241.369	-28.307	-49.026	1998.835	0.410	-28.307	56.611
2100.000	1.243	236.101	-29.534	-51.066	2098.807	0.275	-29.534	58.991
2200.000	1.059	245.418	-30.523	-52.807	2198.787	0.262	-30.523	60.993
2300.000	1.002	246.071	-31.262	-54.446	2298.770	0.059	-31.262	62.783
2400.000	1.102	246.362	-32.002	-56.126	2398.754	0.100	-32.002	64.609
2500.000	1.043	242.654	-32.806	-57.815	2498.736	0.091	-32.806	66.474
2600.000	1.059	243.457	-33.637	-59.450	2598.719	0.022	-33.637	68.306
2700.000	1.106	250.509	-34.371	-61.186	2698.701	0.141	-34.371	70.179
2800.000	1.104	249.679	-35.028	-62.999	2798.683	0.016	-35.028	72.082
2900.000	1.168	253.792	-35.647	-64.881	2898.663	0.104	-35.647	74.029
3000.000	1.789	241.034	-36.688	-67.226	2998.630	0.699	-36.688	76.586
3100.000	1.908	231.846	-38.472	-69.901	3098.578	0.319	-38.472	79.789
3200.000	2.369	238.315	-40.586	-72.969	3198.508	0.520	-40.586	83.497
3300.000	2.866	234.196	-43.135	-76.756	3298.403	0.531	-43.135	88.046
3400.000	2.717	232.265	-46.048	-80.658	3398.285	0.176	-46.048	92.877
3500.000	3.220	238.838	-48.952	-84.936	3498.151	0.607	-48.952	98.032
3600.000	3.627	241.611	-51.909	-90.122	3597.972	0.439	-51.909	104.002

3700.000	3.785	245.366	-54.789	-95.904	3697.763	0.289	-54.789	110.451
3800.000	3.824	244.808	-57.584	-101.922	3797.543	0.054	-57.584	117.064
3900.000	3.256	245.232	-60.193	-107.518	3897.351	0.568	-60.193	123.221
4000.000	2.908	244.787	-62.463	-112.392	3997.207	0.349	-62.463	128.583
4100.000	2.539	250.397	-64.287	-116.773	4097.094	0.455	-64.287	133.300
4200.000	2.539	251.572	-65.730	-120.961	4196.995	0.052	-65.730	137.666
4300.000	2.268	256.132	-66.904	-124.983	4296.908	0.331	-66.904	141.763
4400.000	2.363	251.672	-68.027	-128.860	4396.826	0.203	-68.027	145.714
4500.000	2.117	260.851	-68.969	-132.641	4496.750	0.434	-68.969	149.500
4600.000	2.317	259.436	-69.633	-136.451	4596.675	0.207	-69.633	153.192
4700.000	2.172	260.090	-70.330	-140.305	4696.598	0.148	-70.330	156.945
4800.000	2.179	252.358	-71.232	-143.984	4796.526	0.293	-71.232	160.640
4900.000	2.050	256.841	-72.215	-147.537	4896.458	0.210	-72.215	164.263
5000.000	2.150	260.708	-72.925	-151.129	4996.391	0.173	-72.925	167.804
5100.000	1.958	265.569	-73.360	-154.683	5096.327	0.259	-73.360	171.198
5200.000	1.639	273.149	-73.414	-157.815	5196.278	0.397	-73.414	174.055
5300.000	1.379	255.000	-73.647	-160.405	5296.243	0.541	-73.647	176.504
5400.000	1.943	256.551	-74.352	-163.216	5396.201	0.565	-74.352	179.354
5500.000	1.827	251.846	-75.243	-166.380	5496.147	0.193	-75.243	182.603
5600.000	0.990	249.232	-76.046	-168.702	5596.116	0.839	-76.046	185.050
5700.000	1.228	255.782	-76.616	-170.549	5696.097	0.269	-76.616	186.968
5800.000	0.876	243.425	-77.221	-172.271	5796.080	0.417	-77.221	188.787
5900.000	1.103	258.147	-77.761	-173.897	5896.065	0.339	-77.761	190.491
6000.000	1.098	242.692	-78.398	-175.689	5996.047	0.296	-78.398	192.387
6100.000	1.020	239.301	-79.291	-177.305	6096.030	0.100	-79.291	194.227
6200.000	1.103	228.809	-80.380	-178.795	6196.013	0.211	-80.380	196.032
6300.000	0.865	251.829	-81.249	-180.237	6295.999	0.457	-81.249	197.704
6400.000	0.824	245.542	-81.782	-181.609	6395.988	0.101	-81.782	199.174
6500.000	0.706	235.745	-82.427	-182.773	6495.979	0.175	-82.427	200.500
6600.000	1.247	226.928	-83.517	-184.077	6595.964	0.560	-83.517	202.138
6700.000	1.015	211.076	-85.019	-185.329	6695.945	0.388	-85.019	203.900
6800.000	0.931	209.849	-86.482	-186.191	6795.930	0.087	-86.482	205.295
6900.000	0.987	230.831	-87.730	-187.263	6895.917	0.354	-87.730	206.795
7000.000	0.417	235.404	-88.481	-188.231	6995.909	0.572	-88.481	207.990
7100.000	0.642	189.905	-89.240	-188.627	7095.905	0.459	-89.240	208.672
7140.000	0.525	205.020	-89.627	-188.743	7135.903	0.481	-89.627	208.942

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