



Company: Anadarko Petroleum Corp.

Well: UPRR 50 Pan Am D 7

Rig: Production / VES

Location: Weld County, Colorado

Latitude: 40.082230

North Reference: True North

Longitude: -104.770380

Depth Reference: Ground Level

SHL Error: ±9 Feet

Ground Elevation: 5018 Feet

Survey Tool: North Seeking Rate Gyro

Surveyor: Norman Cowan

API # 05-123-12677

VS: 0.000

Date: 10/1/14

Field copy only not definitive

Depth	Inc	AzG	N/-S	E/-W	TVD	DL	VS	CD	Cbrg
0.000	0.000	0.000	0.000	0.000	0.000	****	0.000	0.000	0.000
100.000	0.354	77.699	0.066	0.302	99.999	0.354	0.066	0.309	77.699
200.000	0.263	61.646	0.241	0.806	199.998	0.124	0.241	0.841	73.366
300.000	0.345	94.180	0.328	1.308	299.997	0.187	0.328	1.349	75.924
400.000	0.297	68.258	0.402	1.849	399.995	0.151	0.402	1.892	77.729
500.000	0.330	60.257	0.641	2.340	499.994	0.055	0.641	2.427	74.677
600.000	0.369	35.379	1.046	2.777	599.992	0.155	1.046	2.967	69.350
700.000	0.114	28.712	1.396	3.011	699.991	0.256	1.396	3.318	65.128
800.000	0.065	21.688	1.535	3.079	799.991	0.050	1.535	3.441	63.502
900.000	0.257	294.764	1.681	2.896	899.990	0.262	1.681	3.349	59.864
1000.000	0.317	264.164	1.747	2.417	999.989	0.162	1.747	2.983	54.141
1100.000	0.305	274.545	1.740	1.877	1099.988	0.058	1.740	2.559	47.160
1200.000	0.289	262.922	1.730	1.361	1199.986	0.062	1.730	2.201	38.189
1300.000	0.465	279.580	1.767	0.710	1299.984	0.206	1.767	1.904	21.902
1400.000	0.518	283.025	1.936	-0.131	1399.980	0.060	1.936	1.941	356.144
1500.000	0.449	260.799	1.975	-0.958	1499.977	0.198	1.975	2.195	334.130
1600.000	0.430	271.078	1.920	-1.720	1599.974	0.081	1.920	2.577	318.140
1700.000	0.632	268.915	1.916	-2.647	1699.970	0.203	1.916	3.268	305.905
1800.000	0.787	268.001	1.882	-3.885	1799.962	0.155	1.882	4.317	295.846
1900.000	0.827	264.229	1.785	-5.289	1899.952	0.066	1.785	5.582	288.652
2000.000	0.804	262.110	1.616	-6.702	1999.942	0.038	1.616	6.894	283.560
2100.000	0.817	263.640	1.441	-8.106	2099.932	0.025	1.441	8.233	280.081
2200.000	0.843	267.308	1.328	-9.550	2199.921	0.059	1.328	9.642	277.914
2300.000	0.907	267.688	1.261	-11.075	2299.910	0.064	1.261	11.147	276.496
2400.000	0.964	276.507	1.324	-12.702	2399.897	0.154	1.324	12.770	275.953
2500.000	1.013	289.986	1.722	-14.368	2499.882	0.237	1.722	14.470	276.834
2600.000	1.056	273.736	2.084	-16.118	2599.866	0.295	2.084	16.252	277.367
2700.000	1.123	301.573	2.657	-17.872	2699.848	0.528	2.657	18.069	278.457
2800.000	1.192	278.519	3.324	-19.736	2799.828	0.467	3.324	20.014	279.561
2900.000	1.094	315.015	4.154	-21.440	2899.810	0.722	4.154	21.838	280.965
3000.000	0.956	334.593	5.583	-22.473	2999.794	0.374	5.583	23.156	283.952
3100.000	1.027	346.975	7.210	-23.033	3099.779	0.225	7.210	24.135	287.381
3200.000	1.098	341.140	8.989	-23.544	3199.762	0.129	8.989	25.202	290.896
3300.000	1.096	330.903	10.731	-24.319	3299.744	0.196	10.731	26.581	293.810
3400.000	1.155	338.865	12.506	-25.147	3399.725	0.167	12.506	28.085	296.442
3500.000	1.336	339.192	14.536	-25.924	3499.701	0.181	14.536	29.721	299.279
3600.000	1.417	322.356	16.604	-27.094	3599.673	0.411	16.604	31.777	301.502

3700.000	1.535	335.638	18.803	-28.401	3699.640	0.361	18.803	34.061	303.507
3800.000	1.564	306.193	20.829	-30.055	3799.605	0.788	20.829	36.567	304.723
3900.000	1.595	298.506	22.299	-32.380	3899.567	0.214	22.299	39.316	304.555
4000.000	1.462	272.431	23.018	-34.877	3999.532	0.702	23.018	41.788	303.423
4100.000	1.399	268.116	23.032	-37.372	4099.501	0.125	23.032	43.899	301.645
4200.000	1.306	278.689	23.164	-39.718	4199.473	0.266	23.164	45.980	300.251
4300.000	1.372	274.678	23.434	-42.039	4299.446	0.115	23.434	48.129	299.137
4400.000	1.465	274.119	23.623	-44.508	4399.415	0.094	23.623	50.388	297.958
4500.000	1.895	286.966	24.198	-47.364	4499.373	0.569	24.198	53.187	297.062
4600.000	2.145	293.097	25.414	-50.667	4599.311	0.330	25.414	56.683	296.638