



Company: Anadarko Petroleum Corp
Rig: Production / Cable
Latitude: 40.202
Longitude: -104.685
API # 05-123-13795

Well: Wardell UPRR 31-29
Location: Weld County, Colorado
North Reference: True North
Depth Reference: Ground Level
Surveyor: Robert Davis

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	0.237	28.430	0.182	0.098	100.000	0.237	0.182	0.206	28.430
200.000	0.134	232.510	0.292	0.104	199.999	0.363	0.292	0.310	19.544
300.000	0.107	230.815	0.161	-0.062	299.999	0.027	0.161	0.173	338.994
400.000	0.124	57.309	0.161	-0.044	399.999	0.231	0.161	0.166	344.838
500.000	0.166	179.257	0.074	0.049	499.999	0.254	0.074	0.089	33.514
600.000	0.439	187.802	-0.449	-0.001	599.998	0.276	-0.449	0.449	180.098
700.000	0.308	176.170	-1.096	-0.035	699.995	0.150	-1.096	1.097	181.816
800.000	0.573	215.049	-1.774	-0.304	799.993	0.385	-1.774	1.800	189.724
900.000	0.656	191.214	-2.745	-0.703	899.987	0.267	-2.745	2.834	194.355
1000.000	0.794	193.580	-3.980	-0.977	999.979	0.141	-3.980	4.098	193.786
1100.000	0.960	201.770	-5.431	-1.450	1099.967	0.207	-5.431	5.622	194.946
1200.000	0.976	214.494	-6.911	-2.243	1199.953	0.215	-6.911	7.266	197.979
1300.000	1.240	228.396	-8.332	-3.534	1299.934	0.375	-8.332	9.050	202.987
1400.000	1.412	237.780	-9.707	-5.386	1399.908	0.277	-9.707	11.102	209.024
1500.000	1.550	247.030	-10.892	-7.674	1499.874	0.276	-10.892	13.324	215.167
1600.000	1.753	258.066	-11.737	-10.416	1599.833	0.376	-11.737	15.692	221.589
1700.000	1.782	260.426	-12.311	-13.446	1699.786	0.079	-12.311	18.231	227.522
1800.000	1.847	264.832	-12.715	-16.584	1799.735	0.154	-12.715	20.898	232.523
1900.000	1.516	285.138	-12.515	-19.467	1899.693	0.676	-12.515	23.143	237.264
2000.000	1.227	295.428	-11.710	-21.711	1999.665	0.379	-11.710	24.667	241.660
2100.000	1.192	295.929	-10.795	-23.614	2099.642	0.036	-10.795	25.964	245.432
2200.000	1.025	309.330	-9.773	-25.241	2199.624	0.308	-9.773	27.067	248.833
2300.000	0.997	304.858	-8.709	-26.647	2299.608	0.084	-8.709	28.034	251.900
2400.000	0.818	297.490	-7.883	-27.993	2399.596	0.214	-7.883	29.082	254.273
2500.000	0.891	294.828	-7.227	-29.332	2499.584	0.084	-7.227	30.209	256.159
2600.000	0.771	299.318	-6.571	-30.625	2599.574	0.136	-6.571	31.322	257.891
2700.000	0.527	292.312	-6.067	-31.637	2699.567	0.257	-6.067	32.213	259.145
2800.000	0.530	297.991	-5.675	-32.470	2799.563	0.052	-5.675	32.962	260.086
2900.000	0.611	296.876	-5.217	-33.354	2899.558	0.082	-5.217	33.759	261.110
3000.000	0.516	292.039	-4.807	-34.247	2999.553	0.106	-4.807	34.583	262.010
3100.000	0.630	286.300	-4.484	-35.192	3099.548	0.127	-4.484	35.477	262.739
3200.000	0.770	259.277	-4.455	-36.380	3199.541	0.355	-4.455	36.652	263.019
3300.000	0.820	276.897	-4.494	-37.751	3299.532	0.249	-4.494	38.017	263.211
3400.000	0.914	247.648	-4.711	-39.199	3399.521	0.447	-4.711	39.481	263.147
3500.000	0.980	254.046	-5.250	-40.759	3499.507	0.125	-5.250	41.096	262.661
3600.000	1.522	262.115	-5.667	-42.897	3599.483	0.569	-5.667	43.270	262.475
3700.000	1.595	284.821	-5.493	-45.559	3699.447	0.618	-5.493	45.889	263.125
3800.000	1.613	286.262	-4.743	-48.255	3799.408	0.044	-4.743	48.488	264.386

3900.000	1.842	268.143	-4.401	-51.212	3899.363	0.589	-4.401	51.401	265.088
4000.000	1.554	265.405	-4.562	-54.170	3999.319	0.299	-4.562	54.362	265.186
4100.000	1.355	276.150	-4.544	-56.697	4099.287	0.337	-4.544	56.879	265.418
4200.000	1.224	268.422	-4.447	-58.940	4199.262	0.217	-4.447	59.107	265.686
4300.000	0.962	273.571	-4.424	-60.845	4299.243	0.279	-4.424	61.006	265.842
4400.000	1.032	256.909	-4.575	-62.560	4399.228	0.297	-4.575	62.727	265.817
4500.000	0.931	268.936	-4.794	-64.249	4499.214	0.229	-4.794	64.428	265.732
4600.000	1.045	257.117	-5.013	-65.950	4599.199	0.233	-5.013	66.140	265.653
4700.000	1.031	252.448	-5.487	-67.697	4699.183	0.086	-5.487	67.919	265.366
4800.000	1.329	229.848	-6.506	-69.441	4799.162	0.547	-6.506	69.745	264.647
4900.000	1.888	213.625	-8.626	-71.239	4899.123	0.716	-8.626	71.759	263.096
5000.000	2.134	197.255	-11.775	-72.704	4999.062	0.622	-11.775	73.651	260.800
5100.000	2.189	178.829	-15.463	-73.217	5098.992	0.694	-15.463	74.832	258.075
5200.000	2.267	155.660	-19.175	-72.362	5198.918	0.898	-19.175	74.860	255.158
5300.000	2.626	138.289	-22.688	-70.023	5298.828	0.820	-22.688	73.606	252.047
5400.000	2.684	120.352	-25.581	-66.478	5398.723	0.829	-25.581	71.230	248.953
5500.000	2.606	114.181	-27.695	-62.384	5498.616	0.295	-27.695	68.255	246.061
5600.000	2.716	117.011	-29.703	-58.199	5598.509	0.171	-29.703	65.341	242.962
5700.000	2.293	107.274	-31.373	-54.178	5698.413	0.599	-31.373	62.606	239.927
5800.000	2.518	105.630	-32.558	-50.153	5798.325	0.235	-32.558	59.794	237.009
5900.000	2.480	99.834	-33.520	-45.906	5898.230	0.255	-33.520	56.841	233.864
6000.000	1.716	102.863	-34.222	-42.315	5998.162	0.772	-34.222	54.422	231.036
6100.000	1.590	103.889	-34.889	-39.508	6098.121	0.129	-34.889	52.708	228.553
6200.000	2.480	93.179	-35.342	-36.001	6198.057	0.964	-35.342	50.449	225.529
6300.000	1.638	91.209	-35.492	-32.412	6297.992	0.845	-35.492	48.065	222.403
6400.000	1.868	94.727	-35.656	-29.359	6397.945	0.254	-35.656	46.188	219.467
6500.000	1.933	87.509	-35.717	-26.049	6497.890	0.248	-35.717	44.207	216.104
6600.000	1.992	80.863	-35.368	-22.648	6597.831	0.235	-35.368	41.998	212.634
6700.000	2.081	82.931	-34.869	-19.131	6697.768	0.116	-34.869	39.772	208.752
6800.000	2.519	71.256	-33.939	-15.248	6797.688	0.640	-33.939	37.207	204.193
6900.000	3.048	75.941	-32.587	-10.588	6897.570	0.575	-32.587	34.264	198.000
7000.000	3.219	63.914	-30.707	-5.488	6997.421	0.678	-30.707	31.193	190.133
7100.000	3.344	58.702	-27.957	-0.474	7097.258	0.323	-27.957	27.961	180.972