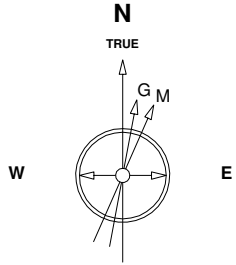


# Great Western Operating Company, LLC

<b>Location</b>	Colorado	<b>Slot</b>	Peterson CX GH 30-14D
<b>Field</b>	Wattenburg	<b>Well</b>	Peterson CX GH 30-14D
<b>Installation</b>	Peterson	<b>Wellbore</b>	Peterson CX GH 30-14D (AWB)

Created by admin  
Date plotted 29-Feb-2016

Plot reference is Peterson CX GH 30-14D (AWB).  
Ref wellpath is Peterson CX GH 30-14D (AWP#1).  
Coordinates are in Feet reference Peterson CX GH 30-14D.  
True Vertical Depths are reference Rig Datum.  
Measured Depths are reference Rig Datum.  
Rig Datum: Actual Datum #1  
Rig Datum to Mean Sea Level: 5474.00 ft.  
Plot North is aligned to TRUE North.

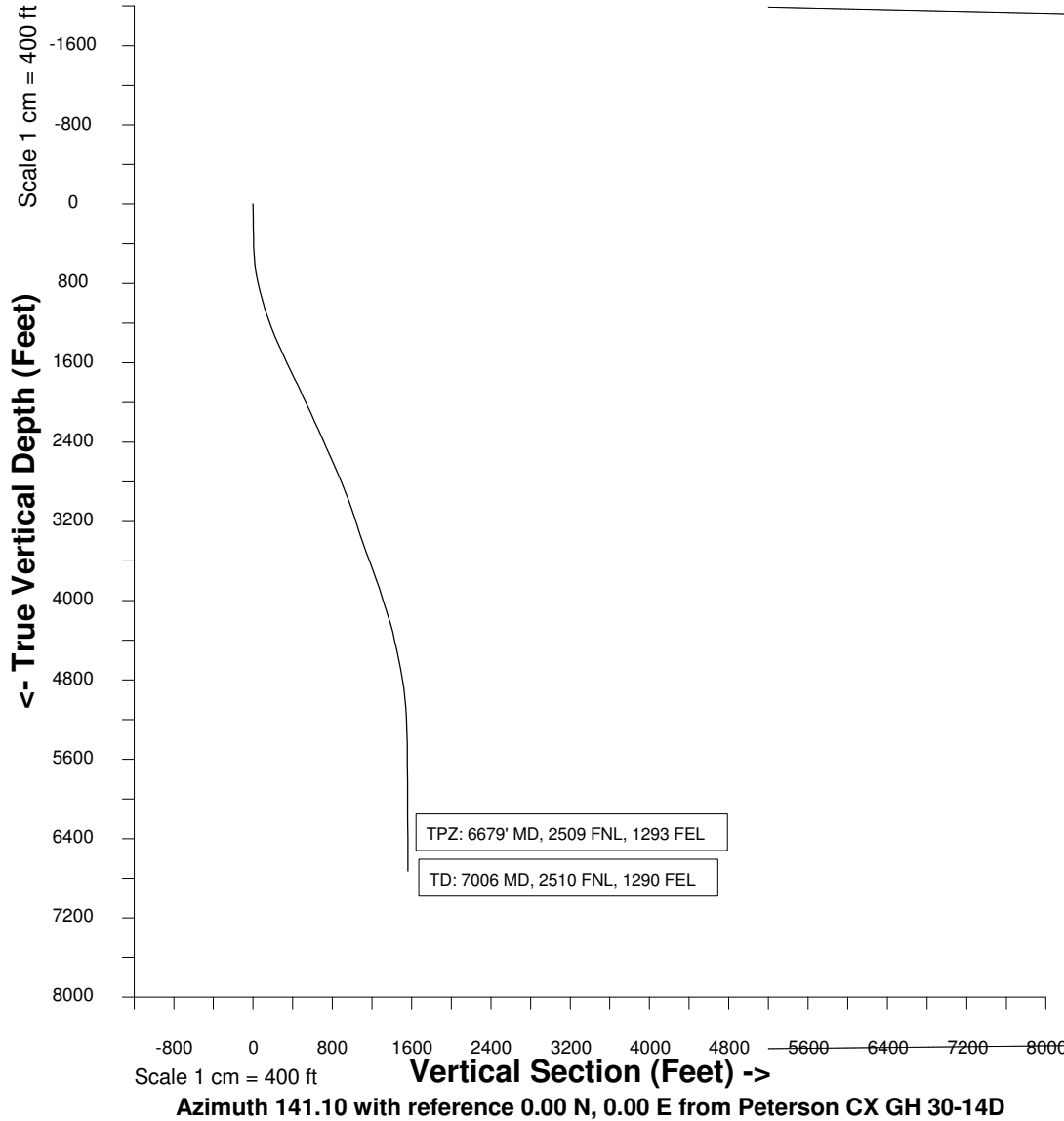


17-Feb-2016  
IGRF Model [1900.0-2020.0] Dip: 66.91 deg Field: 52556.0 nT  
Lat: N40 22 25.4496 Long: W104 28 40.4004 Elev: 5474.00 ft  
Magnetic North is 8.20 deg East of TRUE North  
To correct azimuth from Magnetic to TRUE add 8.20 deg

Scale 1 cm = 200 ft

East (Feet) ->

-2400 -2000 -1600 -1200 -800 -400 0 400 800 1200 1600 2000 2400 2800



E2 Sec 30, T5N, R63W

<- North(Feet)

Scale 1 cm = 200 ft

1600  
1200  
800  
400  
0  
-400  
-800  
-1200  
-1600  
-2000  
-2400  
-2800  
-3200  
-3600  
-4000

### Minimum Curvature

Survey Depth (ft)	Incl (°)	Azimuth (°)	Course Lgth (ft)	TVD (ft)	VS (ft)	Coordinates N/S (ft)   E/W (ft)		DLS (°/100')	Bld Rate (°/100')	Wlk Rate (°/100')	Remarks
150	1.10	151.30	150	149.99	1.42	1.26	S 0.69 E	0.73	0.7	100.9	
243	1.00	149.40	93	242.98	3.10	2.74	S 1.53 E	0.11	-0.1	-2.0	
335	1.00	149.40	92	334.96	4.69	4.13	S 2.35 E	0.00	0.0	0.0	
425	1.50	142.00	90	424.94	6.64	5.73	S 3.48 E	0.58	0.6	-8.2	
516	3.60	144.30	91	515.84	10.69	8.99	S 5.88 E	2.31	2.3	2.5	
605	6.00	140.00	89	604.53	18.13	14.82	S 10.50 E	2.72	2.7	-4.8	
700	9.10	142.20	95	698.69	30.61	24.56	S 18.30 E	3.28	3.3	2.3	
795	12.50	139.70	95	792.00	48.40	38.35	S 29.55 E	3.61	3.6	-2.6	
890	14.30	140.20	95	884.41	70.41	55.20	S 43.71 E	1.90	1.9	0.5	
985	15.90	139.90	95	976.12	95.15	74.17	S 59.61 E	1.69	1.7	-0.3	
1080	17.80	140.90	95	1067.04	122.69	95.40	S 77.15 E	2.02	2.0	1.1	
1174	19.30	141.60	94	1156.15	152.59	118.72	S 95.86 E	1.61	1.6	0.7	
1269	21.20	141.60	95	1245.28	185.47	144.49	S 116.28 E	2.00	2.0	0.0	
1363	23.00	142.70	94	1332.37	220.83	172.42	S 137.97 E	1.96	1.9	1.2	
1457	23.70	142.90	94	1418.67	258.07	202.10	S 160.49 E	0.75	0.7	0.2	
1552	24.50	142.20	95	1505.39	296.85	232.89	S 184.08 E	0.89	0.8	-0.7	
1646	25.10	141.30	94	1590.72	336.27	263.85	S 208.50 E	0.75	0.6	-1.0	
1742	25.90	140.90	96	1677.37	377.60	296.01	S 234.45 E	0.85	0.8	-0.4	
1836	26.40	141.60	94	1761.74	419.03	328.32	S 260.38 E	0.63	0.5	0.7	
1931	25.80	140.90	95	1847.06	460.82	360.92	S 286.54 E	0.71	-0.6	-0.7	
2026	25.20	139.50	95	1932.80	501.71	392.34	S 312.71 E	0.90	-0.6	-1.5	
2121	24.50	138.60	95	2019.01	541.60	422.50	S 338.87 E	0.84	-0.7	-0.9	
2216	24.80	139.20	95	2105.35	581.20	452.35	S 364.92 E	0.41	0.3	0.6	
2311	25.40	140.20	95	2191.38	621.48	483.09	S 390.98 E	0.77	0.6	1.1	
2406	24.20	139.90	95	2277.62	661.32	513.64	S 416.56 E	1.27	-1.3	-0.3	
2501	23.40	138.30	95	2364.54	699.63	542.62	S 441.66 E	1.08	-0.8	-1.7	
2596	23.90	139.30	95	2451.56	737.70	571.29	S 466.75 E	0.67	0.5	1.1	
2691	23.70	140.00	95	2538.48	776.03	600.51	S 491.58 E	0.36	-0.2	0.7	
2786	23.80	139.20	95	2625.43	814.27	629.64	S 516.37 E	0.36	0.1	-0.8	
2882	23.60	138.80	96	2713.34	852.83	658.77	S 541.69 E	0.27	-0.2	-0.4	
2977	22.80	137.20	95	2800.66	890.20	686.58	S 566.72 E	1.07	-0.8	-1.7	
3072	21.50	140.60	95	2888.65	925.97	713.54	S 590.28 E	1.92	-1.4	3.6	
3167	20.60	143.60	95	2977.31	960.08	740.45	S 611.25 E	1.48	-0.9	3.2	
3261	18.80	142.70	94	3065.80	991.74	765.81	S 630.24 E	1.94	-1.9	-1.0	
3356	18.20	145.00	95	3155.90	1021.85	790.14	S 648.03 E	0.99	-0.6	2.4	
3450	17.60	145.70	94	3245.35	1050.66	813.90	S 664.46 E	0.68	-0.6	0.7	
3546	18.80	145.00	96	3336.54	1080.57	838.57	S 681.51 E	1.27	1.3	-0.7	
3641	19.40	145.30	95	3426.31	1111.58	864.08	S 699.27 E	0.64	0.6	0.3	
3736	20.50	142.70	95	3515.61	1143.94	890.28	S 718.33 E	1.49	1.2	-2.7	
3830	20.90	141.30	94	3603.54	1177.16	916.46	S 738.79 E	0.68	0.4	-1.5	
3925	19.80	140.40	95	3692.61	1210.20	942.08	S 759.64 E	1.20	-1.2	-0.9	
4020	19.60	140.20	95	3782.05	1242.22	966.72	S 780.10 E	0.22	-0.2	-0.2	
4113	18.20	140.90	93	3870.04	1272.34	989.98	S 799.24 E	1.52	-1.5	0.8	
4209	17.50	140.70	96	3961.41	1301.77	1012.78	S 817.84 E	0.73	-0.7	-0.2	
4304	16.40	143.60	95	4052.29	1329.45	1034.63	S 834.85 E	1.46	-1.2	3.1	
4396	18.60	141.10	92	4140.02	1357.10	1056.51	S 851.77 E	2.53	2.4	-2.7	
4491	16.70	139.20	95	4230.55	1385.90	1078.63	S 870.21 E	2.09	-2.0	-2.0	
4585	13.60	140.90	94	4321.27	1410.45	1097.44	S 886.00 E	3.33	-3.3	1.8	
4680	11.80	141.50	95	4413.94	1431.34	1113.71	S 899.10 E	1.90	-1.9	0.6	
4775	12.30	140.70	95	4506.85	1451.17	1129.14	S 911.55 E	0.55	0.5	-0.8	
4871	11.50	139.50	96	4600.79	1470.96	1144.33	S 924.24 E	0.87	-0.8	-1.2	
4966	11.20	141.10	95	4693.93	1489.65	1158.71	S 936.19 E	0.46	-0.3	1.7	
5061	9.40	141.60	95	4787.39	1506.64	1171.97	S 946.80 E	1.90	-1.9	0.5	
5156	7.70	142.70	95	4881.34	1520.76	1183.12	S 955.48 E	1.80	-1.8	1.2	
5250	5.30	135.60	94	4974.73	1531.38	1191.23	S 962.33 E	2.69	-2.6	-7.6	
5345	4.30	135.30	95	5069.39	1539.29	1196.90	S 967.91 E	1.05	-1.1	-0.3	
5440	2.80	137.80	95	5164.21	1545.14	1201.15	S 971.97 E	1.59	-1.6	2.6	
5534	2.30	143.90	94	5258.11	1549.32	1204.37	S 974.63 E	0.60	-0.5	6.5	
5630	1.80	147.80	96	5354.05	1552.74	1207.20	S 976.56 E	0.54	-0.5	4.1	
5725	0.90	157.40	95	5449.02	1554.94	1209.16	S 977.65 E	0.97	-0.9	10.1	
5914	0.60	145.80	189	5638.01	1557.35	1211.34	S 978.77 E	0.18	-0.2	-6.1	
6103	0.40	164.80	189	5827.00	1558.94	1212.80	S 979.50 E	0.14	-0.1	10.1	
6292	0.40	229.50	189	6016.00	1559.57	1213.87	S 979.17 E	0.23	0.0	34.2	
6482	0.30	166.60	190	6205.99	1560.03	1214.78	S 978.78 E	0.20	-0.1	-33.1	
6672	0.40	123.70	190	6395.99	1561.12	1215.63	S 979.45 E	0.14	0.1	-22.6	
6861	0.40	105.40	189	6584.99	1562.28	1216.17	S 980.64 E	0.07	0.0	-9.7	
6956	0.40	113.70	95	6679.98	1562.84	1216.39	S 981.26 E	0.06	0.0	8.7	
7006	0.40	113.70	50	6729.98	1563.15	1216.53	S 981.58 E	0.00	0.0	0.0	Projection to Bit

[illegible]