

The SHL is 600' FNL & 600' FWL (NWNW), Section 36, T9N, R62W, Weld County, CO. The state setback is 600' from the section lines.

**7" Casing:** 8-3/4" hole: KOP at 6,708'. Build curve at **12°/100'** to 90° inclination at 6,980' MD (**6,708' TVD**) at an azimuth of 161.72° and set 7" casing (1,052' FNL & 749' FWL, NWNW, Section 36, T9N, R62W).

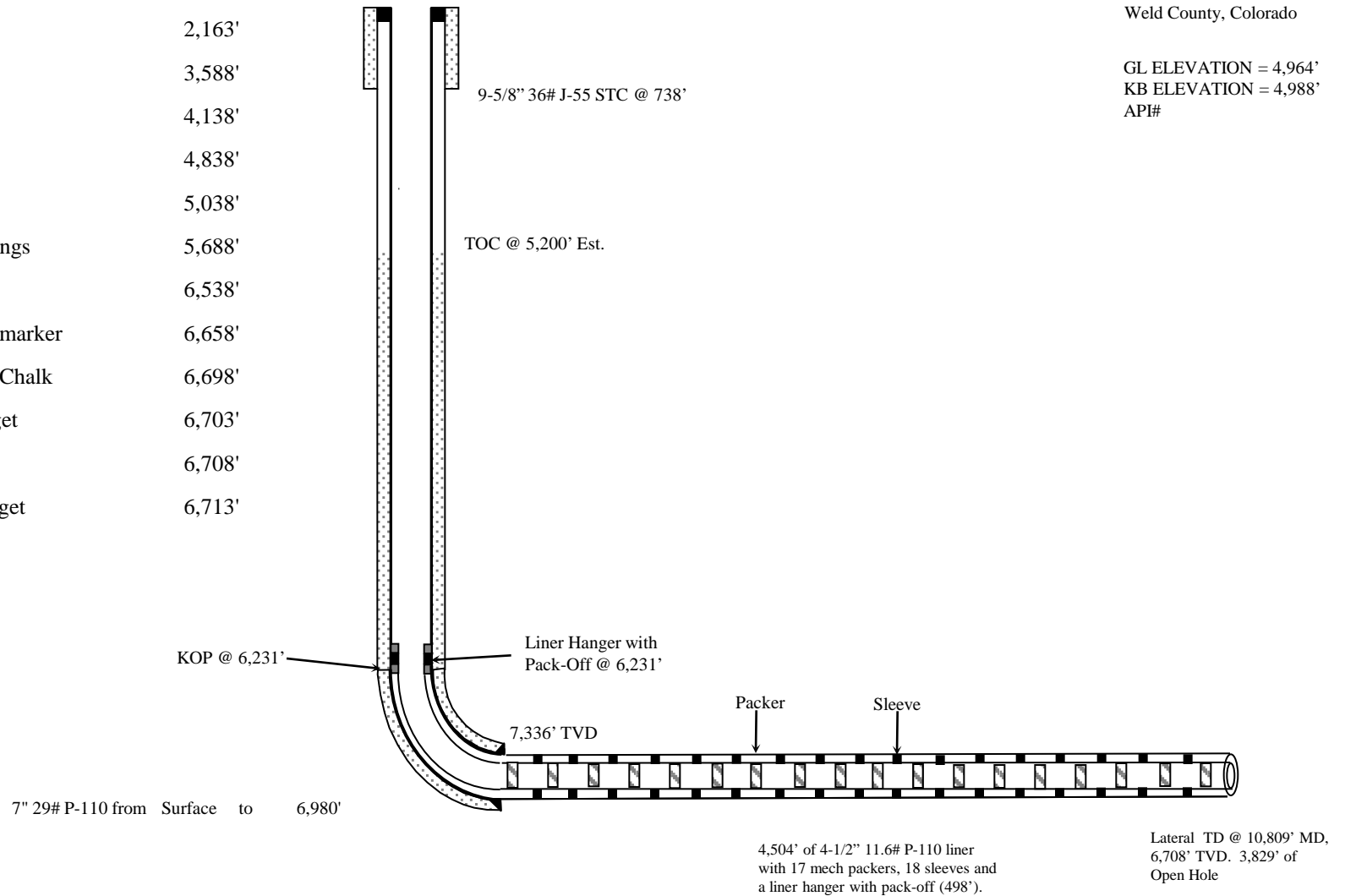
**North Lateral:** Drill a 6" horizontal well holding an azimuth of 161.72° to TD at a depth of 10,809' MD (**6,708' TVD**), 650' FSL & 1,951' FWL (SESW) Section 36, T10N, R64W. Expect an inclination of 90.00°. Total 6" lateral is 3,829'.

## Joker 1-36H

<u>Formation</u>	<u>TVD</u>
Pierre Shale	688'
Parkman	2,163'
Richard	3,588'
Hygiene	4,138'
Sussex	4,838'
Shannon	5,038'
Sharon Springs	5,688'
Niobrara	6,538'
Niobrara B marker	6,658'
Niobrara B Chalk	6,698'
Top of Target	6,703'
Target	6,708'
Base of Target	6,713'

Location: 600' FNL and 600' FWL  
NWNW Sec 36, T9N-R62W  
Weld County, Colorado

GL ELEVATION = 4,964'  
KB ELEVATION = 4,988'  
API#



# Joker 1-36H

KB = 4,988'

KOP = 6,231'

TARGET = 6,708' TVD

MD	Incl.	Azi.	TVD	Based on True North		DLS	Vertical Section	UTM N	UTME
				North	East				
0.00	0.00	161.72	0.00	0.00	0.00	0.00	0.00	-600.00	600.00
6,200.00	0.00	161.72	6,200.00	0.00	0.00	0.00	0.00	-600.00	600.00
<b>6,230.50</b>	<b>0.00</b>	<b>161.72</b>	<b>6,230.50</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>-600.00</b>	<b>600.00 KOP</b>
6,280.50	6.00	161.72	6,280.36	-2.48	0.82	12.00	2.61	-602.48	600.82
6,330.50	12.00	161.72	6,329.68	-9.90	3.27	12.00	10.43	-609.90	603.27
6,380.50	18.00	161.72	6,377.91	-22.17	7.32	12.00	23.35	-622.17	607.32
6,430.50	24.00	161.72	6,424.53	-39.16	12.93	12.00	41.24	-639.16	612.93
6,480.50	30.00	161.72	6,469.02	-60.68	20.04	12.00	63.90	-660.68	620.04
6,530.50	36.00	161.72	6,510.90	-86.50	28.57	12.00	91.10	-686.50	628.57
6,580.50	42.00	161.72	6,549.70	-116.34	38.43	12.00	122.52	-716.34	638.43
6,630.50	48.00	161.72	6,585.01	-149.86	49.51	12.00	157.83	-749.86	649.51
6,680.50	54.00	161.72	6,616.43	-186.71	61.68	12.00	196.63	-786.71	661.68
6,730.50	60.00	161.72	6,643.62	-226.47	74.82	12.00	238.51	-826.47	674.82
6,780.50	66.00	161.72	6,666.29	-268.71	88.78	12.00	283.00	-868.71	688.78
6,830.50	72.00	161.72	6,684.18	-312.97	103.40	12.00	329.61	-912.97	703.40
6,880.50	78.00	161.72	6,697.10	-358.77	118.53	12.00	377.84	-958.77	718.53
6,930.50	84.00	161.72	6,704.91	-405.60	134.00	12.00	427.16	-1,005.60	734.00
<b>6,980.00</b>	<b>90.00</b>	<b>161.72</b>	<b>6,707.50</b>	<b>-452.47</b>	<b>149.49</b>	<b>12.12</b>	<b>476.53</b>	<b>-1,052.47</b>	<b>749.49 7" Csg Shoe</b>
<b>6,980.00</b>	<b>90.00</b>	<b>161.72</b>	<b>6,707.50</b>	<b>-452.47</b>	<b>149.49</b>	<b>12.12</b>	<b>476.53</b>	<b>-1,052.47</b>	<b>749.49 7" Csg Shoe</b>
7,080.00	90.00	161.72	6,707.50	-547.42	180.86	0.00	576.52	-1,147.42	780.86
7,180.00	90.00	161.72	6,707.50	-642.37	212.23	0.00	676.52	-1,242.37	812.23
7,280.00	90.00	161.72	6,707.50	-737.32	243.60	0.00	776.52	-1,337.32	843.60
7,380.00	90.00	161.72	6,707.50	-832.27	274.97	0.00	876.52	-1,432.27	874.97
7,480.00	90.00	161.72	6,707.50	-927.22	306.34	0.00	976.51	-1,527.22	906.34
7,580.00	90.00	161.72	6,707.50	-1,022.17	337.71	0.00	1,076.51	-1,622.17	937.71
7,680.00	90.00	161.72	6,707.50	-1,117.12	369.08	0.00	1,176.51	-1,717.12	969.08
7,780.00	90.00	161.72	6,707.50	-1,212.07	400.45	0.00	1,276.51	-1,812.07	1,000.45
7,880.00	90.00	161.72	6,707.50	-1,307.02	431.82	0.00	1,376.51	-1,907.02	1,031.82
7,980.00	90.00	161.72	6,707.50	-1,401.97	463.19	0.00	1,476.50	-2,001.97	1,063.19
8,080.00	90.00	161.72	6,707.50	-1,496.92	494.56	0.00	1,576.50	-2,096.92	1,094.56
8,180.00	90.00	161.72	6,707.50	-1,591.87	525.93	0.00	1,676.50	-2,191.87	1,125.93
8,280.00	90.00	161.72	6,707.50	-1,686.82	557.30	0.00	1,776.50	-2,286.82	1,157.30
8,380.00	90.00	161.72	6,707.50	-1,781.77	588.67	0.00	1,876.50	-2,381.77	1,188.67
8,480.00	90.00	161.72	6,707.50	-1,876.72	620.04	0.00	1,976.49	-2,476.72	1,220.04
8,580.00	90.00	161.72	6,707.50	-1,971.67	651.41	0.00	2,076.49	-2,571.67	1,251.41
8,680.00	90.00	161.72	6,707.50	-2,066.62	682.78	0.00	2,176.49	-2,666.62	1,282.78
8,780.00	90.00	161.72	6,707.50	-2,161.57	714.15	0.00	2,276.49	-2,761.57	1,314.15
8,880.00	90.00	161.72	6,707.50	-2,256.52	745.52	0.00	2,376.49	-2,856.52	1,345.52
8,980.00	90.00	161.72	6,707.50	-2,351.47	776.89	0.00	2,476.48	-2,951.47	1,376.89
9,080.00	90.00	161.72	6,707.50	-2,446.42	808.26	0.00	2,576.48	-3,046.42	1,408.26
9,180.00	90.00	161.72	6,707.50	-2,541.37	839.63	0.00	2,676.48	-3,141.37	1,439.63
9,280.00	90.00	161.72	6,707.50	-2,636.32	871.00	0.00	2,776.48	-3,236.32	1,471.00
9,380.00	90.00	161.72	6,707.50	-2,731.27	902.37	0.00	2,876.47	-3,331.27	1,502.37
9,480.00	90.00	161.72	6,707.50	-2,826.22	933.74	0.00	2,976.47	-3,426.22	1,533.74
9,580.00	90.00	161.72	6,707.50	-2,921.17	965.11	0.00	3,076.47	-3,521.17	1,565.11
9,680.00	90.00	161.72	6,707.50	-3,016.12	996.48	0.00	3,176.47	-3,616.12	1,596.48
9,780.00	90.00	161.72	6,707.50	-3,111.07	1,027.85	0.00	3,276.47	-3,711.07	1,627.85
9,880.00	90.00	161.72	6,707.50	-3,206.02	1,059.22	0.00	3,376.46	-3,806.02	1,659.22
9,980.00	90.00	161.72	6,707.50	-3,300.97	1,090.59	0.00	3,476.46	-3,900.97	1,690.59
10,080.00	90.00	161.72	6,707.50	-3,395.92	1,121.96	0.00	3,576.46	-3,995.92	1,721.96
10,180.00	90.00	161.72	6,707.50	-3,490.87	1,153.33	0.00	3,676.46	-4,090.87	1,753.33
10,280.00	90.00	161.72	6,707.50	-3,585.82	1,184.70	0.00	3,776.46	-4,185.82	1,784.70
10,380.00	90.00	161.72	6,707.50	-3,680.77	1,216.07	0.00	3,876.45	-4,280.77	1,816.07
10,480.00	90.00	161.72	6,707.50	-3,775.72	1,247.44	0.00	3,976.45	-4,375.72	1,847.44
10,580.00	90.00	161.72	6,707.50	-3,870.67	1,278.81	0.00	4,076.45	-4,470.67	1,878.81
10,680.00	90.00	161.72	6,707.50	-3,965.62	1,310.18	0.00	4,176.45	-4,565.62	1,910.18
10,780.00	90.00	161.72	6,707.50	-4,060.57	1,341.55	0.00	4,276.45	-4,660.57	1,941.55
<b>10,809.63</b>	<b>90.00</b>	<b>161.72</b>	<b>6,707.50</b>	<b>-4,088.71</b>	<b>1,350.85</b>	<b>0.00</b>	<b>4,306.08</b>	<b>-4,688.71</b>	<b>1,950.85 End Lateral</b>