PROPOSED HZ PA WBD (Vertical-Deviated Schematic)

CIVITAS

Well Name	API #	Operator	State	County/Parish
STATE SEVENTY HOLES F-J-04HNB	0512339210	BONANZA CREEK ENERGY OPERATING	CO	WELD

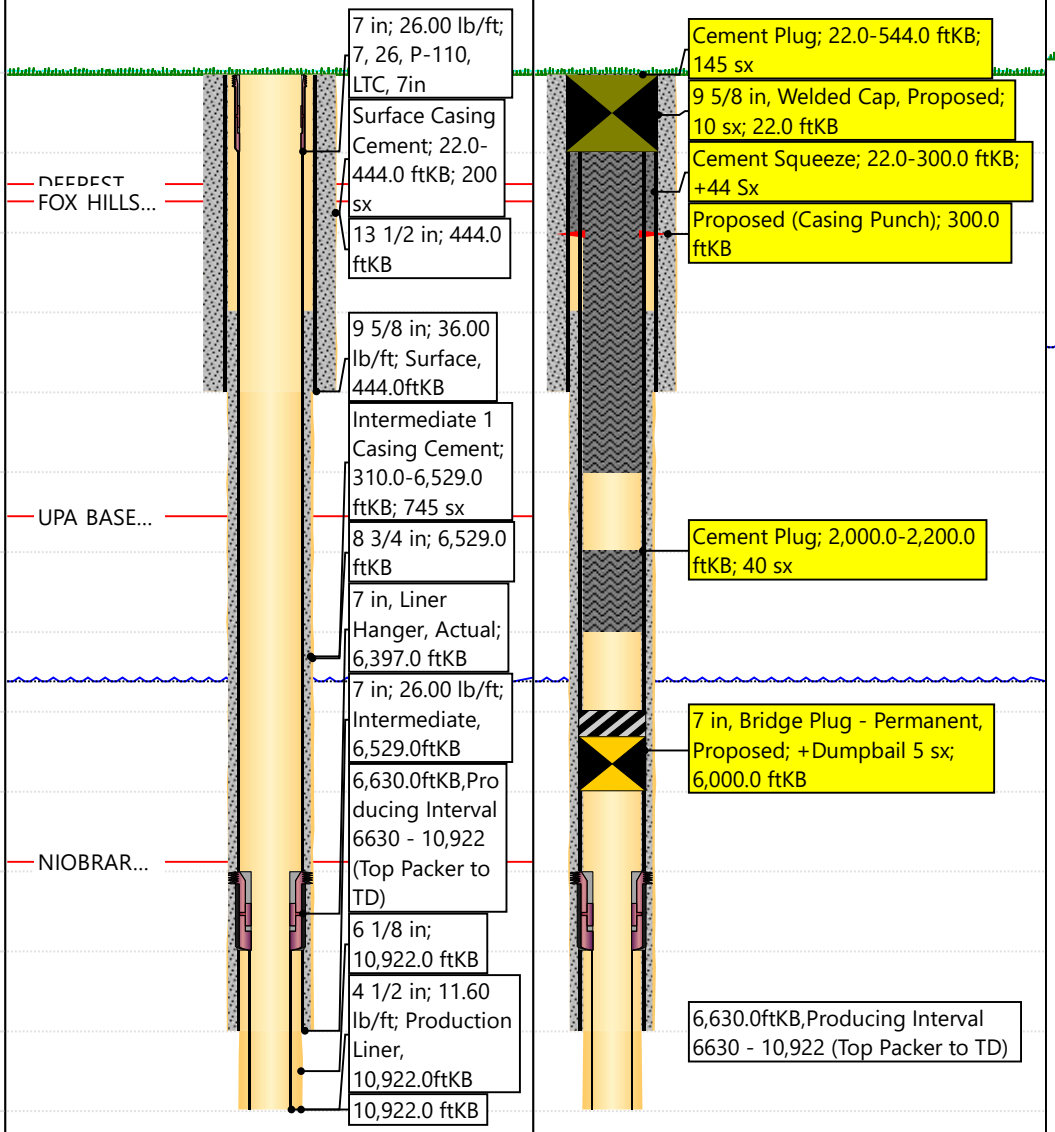
Quarter 1	Quarter 2	Section	Township	Township N/S Dir	Range	Range E/W Dir
NE	NW	4			62	W

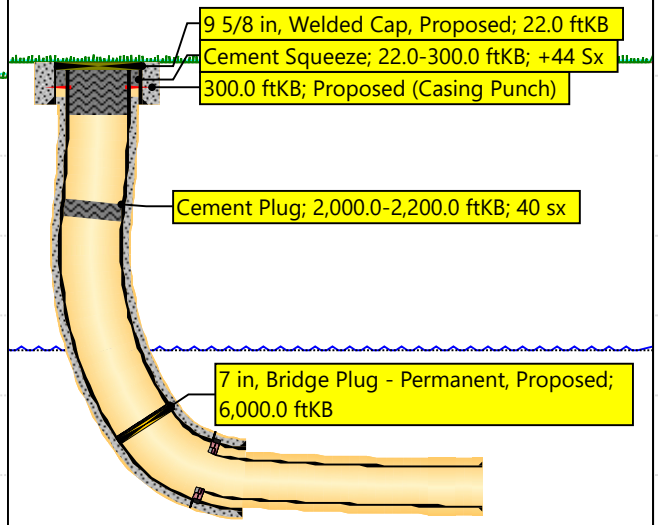
Reference Wells

Type	Comment
Water Well	135'
Fox Hills	196'
UPA	1333'

Original Hole [HORIZONTAL]

MD (ftKB)	TVD (ftKB)
22.0	22.0
23.0	23.0
299.9	299.9
310.0	310.0
443.9	443.9
544.0	544.0
2,000.0	1,998.9
2,200.1	2,198.2
6,000.0	5,969.5
6,002.0	5,971.2
6,397.0	6,189.4
6,399.0	6,190.0
6,528.9	6,214.3
10,921.9	6,215.6





Incl (°)	DLS (°/100 ft)
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
5.7	2.7
5.1	0.2
32.9	10.6
33.1	10.6
71.4	4.0
71.5	4.0
86.5	21.0
90.0	1.1

Note: Directional schematic does not correlate to other tracks.