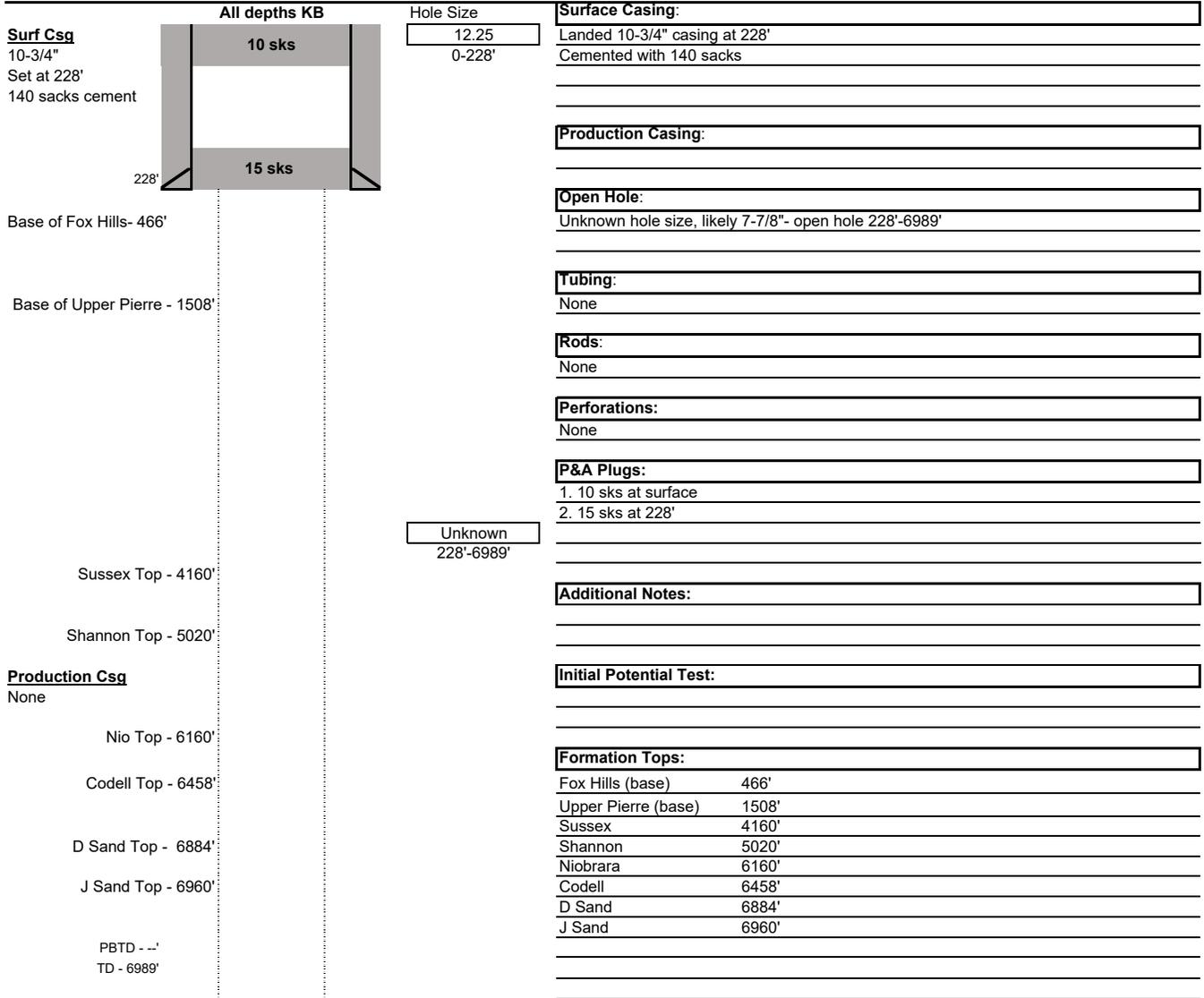




**Current Wellbore Schematic**

Well Name: Federal 1  
 Location: 1980' FSL, 660' FEL, NESE Sec 21, T8N, R60W  
 County: Weld  
 API #: 05-123-05527  
 Co-ordinates: 40.646024, -104.089467 (As Surveyed)  
 Elevations: GROUND: 4919'  
 KB: Unknown  
 Depths (KB): PBTD: --  
 TD: 6989'

Date Prepared: 3/21/2019  
 Last Updated: 3/25/2019  
 Spud Date: 10/12/1954  
 Completion Start Date: N/A  
 Last Workover Date: N/A  
 Prepared by: Ariana Solis



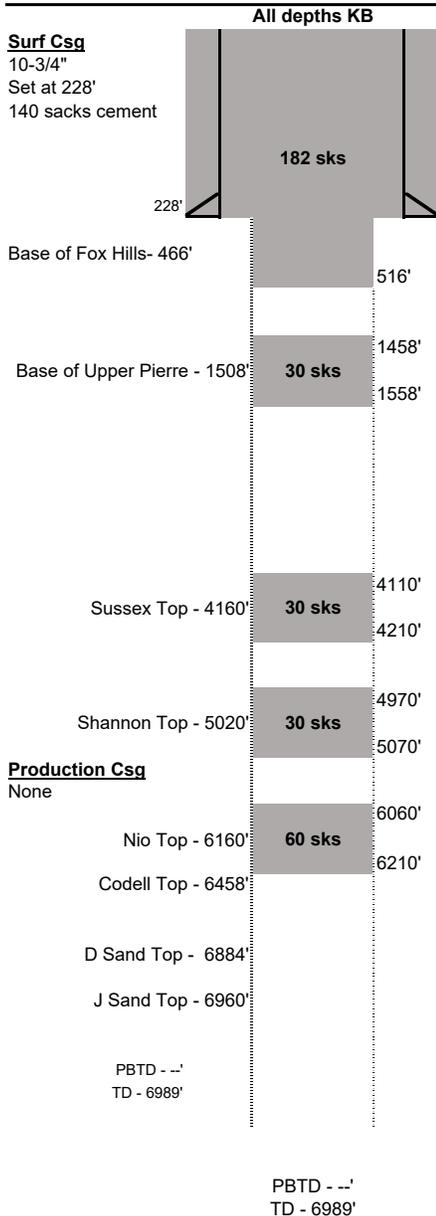
PBTD - --'  
 TD - 6989'



**Proposed Wellbore Schematic**

Well Name: Federal 1  
 Location: 1980' FSL, 660' FEL, NESE Sec 21, T8N, R60W  
 County: Weld  
 API #: 05-123-05527  
 Co-ordinates: 40.646024, -104.089467 (As Surveyed)  
 Elevations: GROUND: 4919'  
 KB: Unkknown  
 Depths (KB): PBTD: --  
TD: 6989'

Date Prepared: 3/21/2019  
 Last Updated: 8/26/2019  
 Spud Date: 10/12/1954  
 Completion Start Date: N/A  
 Last Workover Date: N/A  
 Prepared by: Elizabeth Wilson



Hole Size  
 12.25  
 0-228'

**Surface Casing:**  
 Landed 10-3/4" casing at 228'  
 Cemented with 140 sacks

**Production Casing:**

**Open Hole:**  
 Unknown hole size, likely 7-7/8" - open hole 228'-6989'

**Tubing:**  
 None

**Rods:**  
 None

**Perforations:**  
 None

**P&A Plugs:**  
 1. 60 sks Class G (1.15 cuft/sk) from 6210'-6060'  
 2. 30 sks Class G (1.15 cuft/sk) from 5070'-4970'  
 3. 30 sks Class G (1.15 cuft/sk) from 4210'-4110'  
 4. 30 sks Class G (1.15 cuft/sk) from 1558'-1458'  
 5. 182 sks Class G (1.15 cuft/sk) from 516'-surface

**Additional Notes:**

**Initial Potential Test:**

**Formation Tops:**

Fox Hills (base)	466'
Upper Pierre (base)	1508'
Sussex	4160'
Shannon	5020'
Niobrara	6160'
Codell	6458'
D Sand	6884'
J Sand	6960'