



**WELLBORE DIAGRAM**  
**PROPOSED WBD**

1130' FSL 1650' FEL

Cut and Cap (Well Name,  
 API, Legal Desc.) 4-6'  
 below ground level.

No PR Sussex  
 Deepest WW with in 1 Mile: 1321'  
 Fox Hills: 1048'-1257'  
 Upper Pierre Base: 2322'

Top off as needed

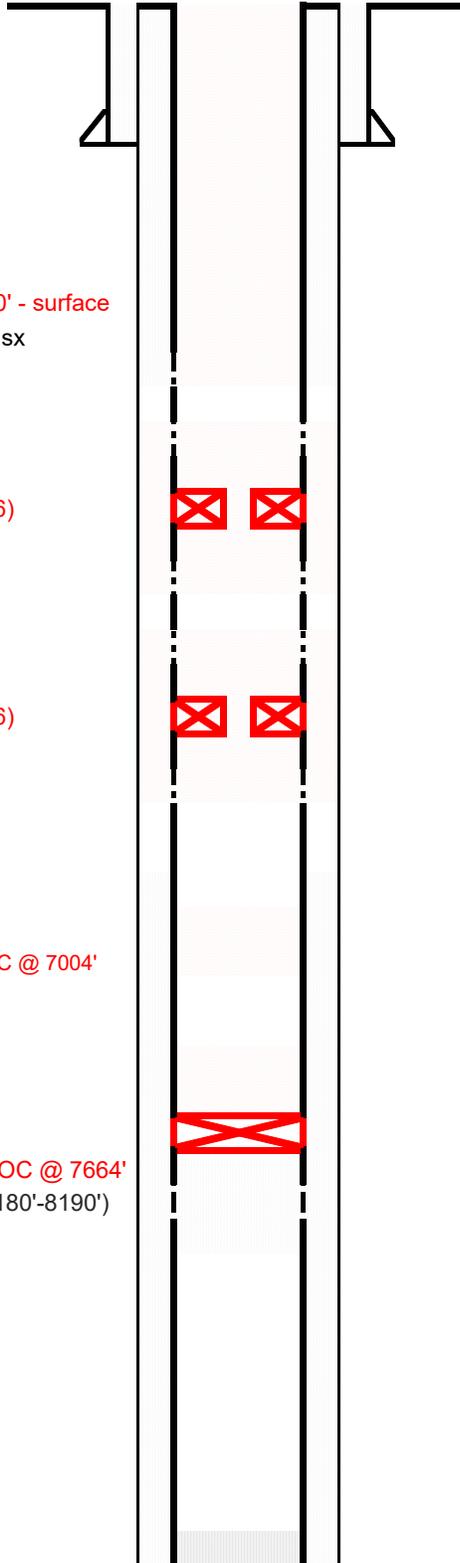
Pump 106 sx G+2%CC from 1400' - surface  
 DV tool @ 1314', pump 250 sx  
 calc TOC @ surface

Perf @ 2200'  
 Set CICR @ 2300'  
 Pump 30 sx thru CICR (AGM 1.86)  
 leave 5 sx on top, ETOC 2193'  
 Perf @ 2400'

Perf @ 5100'  
 Set CICR @ 5200'  
 Pump 30 sx thru CICR (AGM 1.86)  
 leave 5 sx on top, ETOC 5093'  
 Perf @ 5300'

Pump 25 sx Therm 35 at 7440', ETOC @ 7004'

Set CIBP @ 8100'  
 Pump 25 sx Therm 35 on top, ETOC @ 7664'  
 Pump 25 sx across perfs (8180'-8190')



TVD = PBTVD =  
 MD = 8265' PBMD = 8212'

<b>Operator:</b>	Cutler Brothers
<b>Well Name:</b>	Freeman 1-A
<b>Lease Number:</b>	
<b>Location:</b>	SWSE 31 1S 66W
<b>Field:</b>	Bugle - #7800
<b>County, State:</b>	Adams, CO
<b>API Number:</b>	05-001-07092
<b>Diagram Date:</b>	3/19/2021
<b>Lat/Long</b>	39.917341 -104.8148

**KB** 5082'  
**GL**  
**Spud Date:** 9/11/1975

**Surface Casing :**

8-5/8" 24# set @ 181'  
 Cmt w/ 200 sx

**Production Casing :**

4-1/2" 11.6# set @ 8253'  
 Cmt'd w/ 250 sx  
 Calc TOC @ 6882' w/ 7-7/8" hole

**Tubing Detail:**

**Formation Tops:**

Sussex	5204'
Niobrara	7494'
Carlile	7818'
Greenhorn	7891'
Bentonite	8070'
D Sand	8172'
J Sand	8219'

<b>Perforations</b>	<b>Top</b>	<b>Bottom</b>
D Sand	8180'	8190'