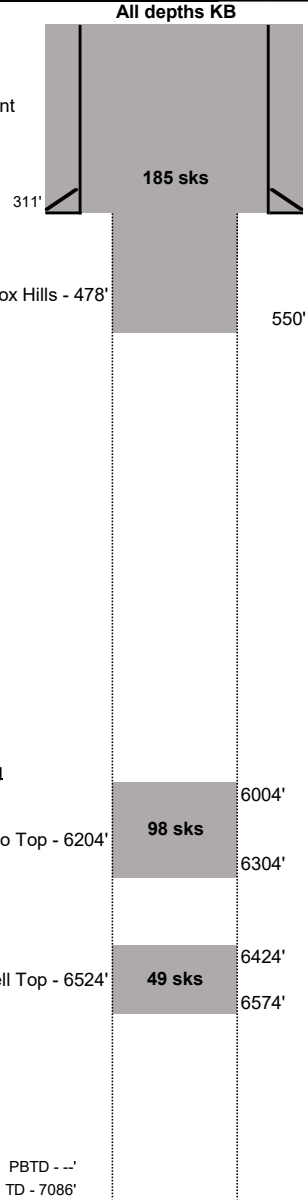
Proposed Wellbore Schematic

Well Name:	Butler Federal 1-20	Date Prepared:	8/29/2018
Location:	655' FSL, 680' FWL, SWSW Sec 20, T8N, R60W	Last Updated:	8/29/2018
County	Weld	Spud Date:	3/15/1978
API #:	05-123-09375	Completion Start Date:	N/A
Co-ordinates:	40.642303 / -104.122834	Last Workover Date:	N/A
Elevations: GROUND:	4937'	Prepared by	Elizabeth Kane
KB:	6'		
Depths (KB): PBTD:	--		
TD:	7086'		

All depths KB

Surf Csg
8-5/8", 24#
Set at 311'
200 sacks cement



Production Csg
None

PBTD - --'
TD - 7086'

Hole Size	
12.25"	0-311'
Unknown	311'-7086'

Surface Casing:
Landed 8-5/8", 24# casing at 311'
Cemented with 200 sks

Production Casing:
No production casing

Open Hole:
311'-7086', hole size unknown, likely 7-7/8"

Tubing:
None

Rods:
None

Perforations:
None

P&A Plugs:
1. 49 sks Class G (1.15 cuft/sk) from 6574'-6424'
2. 98 sks Class G (1.15 cuft/sk) from 6304'-6004'
3. 185 sks Class G (1.15 cuft/sk) from 550'-surface

Additional Notes:
Well was filled with heavy mud

Initial Potential Test:

Formation Tops:

Fox Hills (base)	478'
Parkman	3374'
Shannon	5047'
Niobrara	6204'
Codell	6524'
D Sand	6947'
J Sand	7026'