API:	**05-123-21036**	**CREATED BY:**	**G. MACAULEY**	**DATE:**	**Mar 29, 2024**
WELL NAME:	**BERNHARD 4-23A**	**ELEVATION:**	**4976**	**QTRQTR:**	**NWNW**
COUNTY:	**WELD**	**GROUND LEVEL:**	**4960**	**SEC:**	**23**
LATITUDE:	**40.1291075**	**MD:**	**8175**	**TWN:**	**2N**
LONGITUDE:	**-104.8651726**	**PBMD:**	**8158**	**RNG:**	**67W**

Existing | DATUM: RKB, KB=16' | **Proposed**

Hole Size/Depth 12-1/4" / 666'

Deepest water well in 1 mile - 600'

280 Sx Cmt

Surface Casing 8-5/8", 24#, J-55 set @ 666'

Upper Pierre Aquifer Base 1602'

TOC (from CBL) 3890'

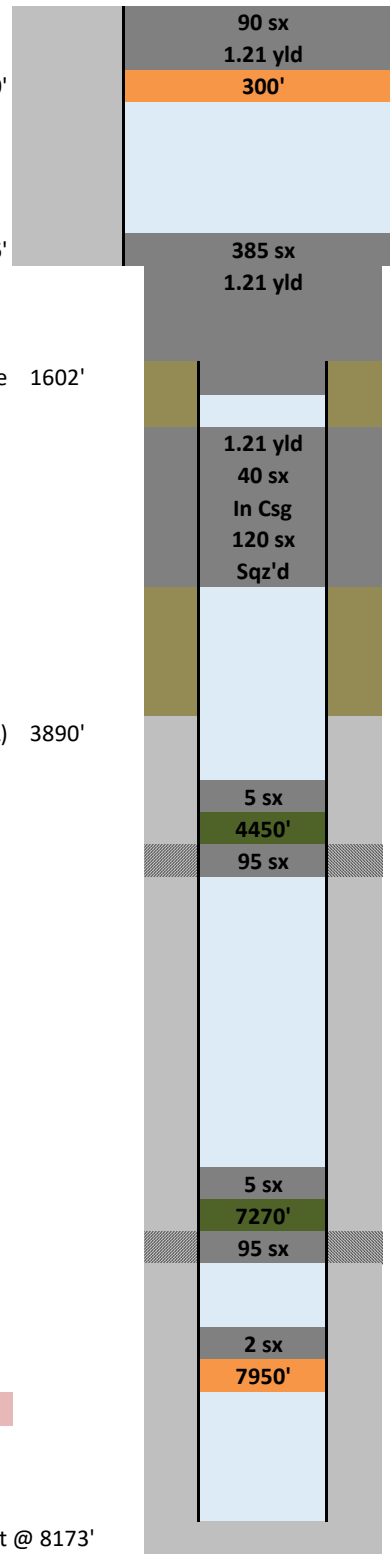
Sussex Productive in 1 mile
Top 4470'
Base '
Shannon Base ' - NOT productive in 1 mile

Niobrara Top 7290'

J Sand Perfs 8004' - 8030'

515 Sx Cmt

Production Casing 4-1/2", 11.6#, I-80 set @ 8173'
Hole Size/Depth 7-7/8" / 8175'



616' TOC

1550' Cut casing
1600' BOC

1900' TOC in csg
1900' TOC behind csg

2400' Perfs/BOC

4390' TOC in csg

4480' Perfs/BOC

7210' TOC in csg

7300' Perfs/BOC

New Cement
Existing Cement
New CICR
Existing CICR
New CIBP
Existing CIBP
Treated Water
Brine
Mud
Sand Plug

cmt to surface