API:	**05-123-29989**	**CREATED BY:**	**B. Dean**	**DATE:**	**3/6/2023**
WELL NAME:	**SOUTH GATE 8-43**	**ELEVATION:**	**4954**	**QTRQTR:**	**SWSE**
COUNTY:	**WELD**	**GROUND LEVEL:**	**4938**	**SEC:**	**8**
LATITUDE:	**40.4092576**	**MD:**	**7387**	**TWN:**	**5N**
LONGITUDE:	**-104.9130206**	**PBMD:**	**7361**	**RNG:**	**67W**

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

Hole Size/Depth 12-1/4" / 455'

Deepest water well in 1 mile - 25'

323 Sx Cmt

Surface Casing **8-5/8", 24#, J-55 set @ 455'**

Upper Pierre Aquifer Base 1170'

TOC (from CBL) 2792'

Sussex Productive in 1 mile
Top 4041'
Base 4274'

Shannon Base 4688' - NOT productive in 1 mile

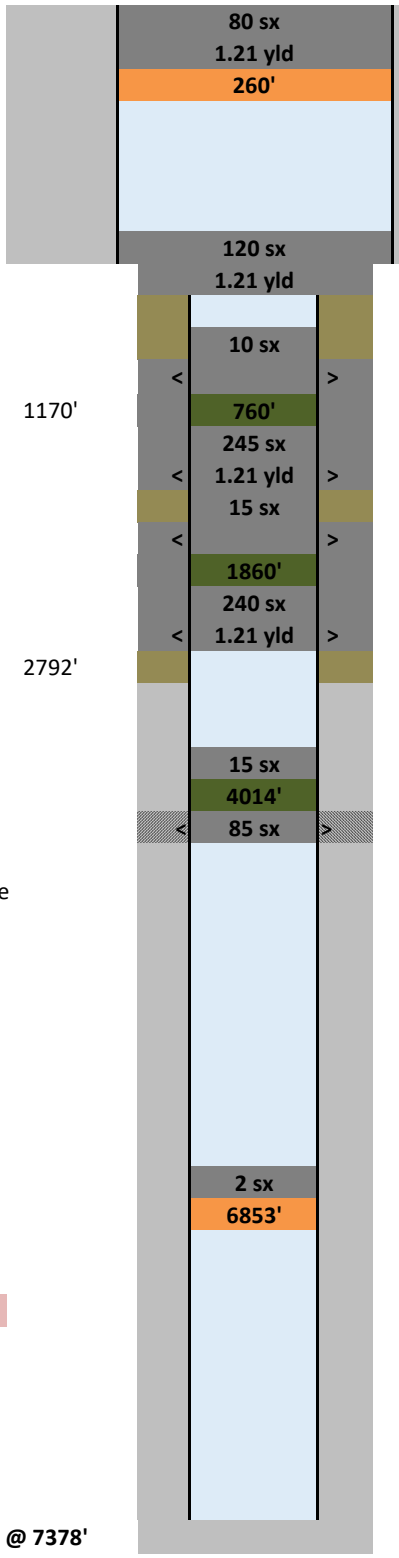
Niobrara Top 6903'

Codell Perfs 7204' - 7224'

645 Sx Cmt

Production Casing **4-1/2", 11.6#, L-80 set @ 7378'**

Hole Size/Depth 7-7/8" / 7387'



405' TOC
555' BOC/Cut casing
625' TOC in csg
700' Perfs/TOC
1500' Perfs/BOC
1700' TOC in csg
1800' Perfs/TOC
2600' Perfs/BOC
3870' TOC in csg
4044' Perfs/BOC

cmt to surface

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