API:	**05-123-17920**	**CREATED BY:**	**C. MARTIN**	**DATE:**	**Jan 26, 2024**
WELL NAME:	**KOESTER 14-33**	**ELEVATION:**	**4878**	**QTRQTR:**	**SWSW**
COUNTY:	**WELD**	**GROUND LEVEL:**	**4868**	**SEC:**	**33**
LATITUDE:	**40.2639423**	**MD:**	**7353**	**TWN:**	**4N**
LONGITUDE:	**-104.9027269**	**PBMD:**	**7317**	**RNG:**	**67W**

Existing | DATUM: RKB | KB=10' | **Proposed**

Hole Size/Depth 12-1/4" / 650'

80 sx
1.21 yld
cmt to surface

Deepest water well in 1 mile - 590'

260'

430 Sx Cmt

Surface Casing 8-5/8", 24#, J-55 set @ 619'

290 sx
1.21 yld
569' TOC

Upper Pierre Aquifer Base 1251'

1251' BOC/Cut casing

15 sx
1490' TOC in csg
1700' Perfs/TOC

1760'
225 sx
1.21 yld
2400' Perfs/BOC

15 sx
3690' TOC in csg

Sussex Productive in 1 mile
3890' Perfs/TOC

Top 4091'

3950'

Base 4256'

135 sx
1.19 yld

Shannon Base 4670' - NOT productive in 1 mile
4310' Perfs/BOC

TOC (from CBL) 6330'

10 sx
6685' TOC in csg

Niobrara Top 6917'

6900'

Niobrara Perfs 6993' - 7000'

95 sx
6993' Perfs/BOC

Codell Perfs 7208' - 7220'

180 Sx Cmt

Production Casing 3-1/2", 7.7#, WC-70 set @ 7338'

Hole Size/Depth 7-7/8" / 7353'

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