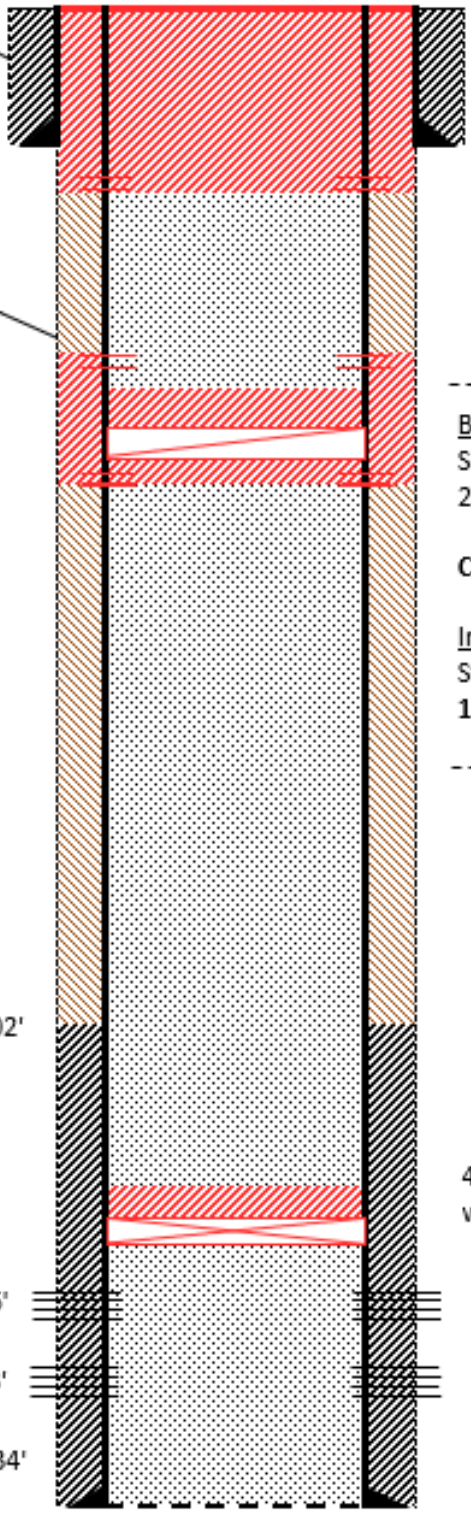
AFE # **19073**

WELLBORE DIAGRAM
NOBLE ENERGY INC
SMITH C9-19
NENW SEC 9 4N 64W
WELD COUNTY
05-123-21929

Existing

Proposed



hole size: 12-1/4"

8-5/8" 24# @ 549' cmt
w/ 220 sks to surface

hole size: 7-7/8"

DWW: 375'
Base of Fox Hills: 356'

Niobrara top: 6,730'
Codell top: 6,978'

TOC @ 6,302'
(CBL)

Niobrara perfs 6,732'-6,846'

Codell perfs 6,980'-6,993'

4-1/2" 11.6# @ 7,134'
cmt w/ 140 sks

PBMD: 7,090'

Welded cap
10 sks at surface

Behind 4-1/2
Shoot holes at 599' &
squeeze **133 sx** to surface

Inside 4-1/2
Pump **44 sks** from 599' to
surface

Behind 4-1/2
Shoot holes at 2,500' and
2,200' to squeeze **76 sks**

CICR @ 2,400'

Inside 4-1/2
Sting out of CICR & pump
10 sks on top of CICR

All cement Class G mixed at 15.8 ppg, 1.39 cuft/sk; calcs include excess

4-1/2" CIBP @ 6,680'
w/ 2 sks

Legend
Water
Existing Cement
New Cement
Existing Mud

*NOT TO SCALE