

The diagram illustrates a wellbore profile with various casing and cement layers. Key features include:

- Top Section:** Kelly Bushing (140 sxs lite, 150 sxs G Circ to Srf) and Srf yes (11').
- Base of Fox Hills:** 438'.
- Bttm Srfc Casing & Cmnt:** 472'.
- 4 1/2" 11.6# WC-80:** A callout box pointing to the casing.
- 7 7/8" Hole:** A callout box pointing to the casing.
- 8 5/8" 24# K-55:** A callout box pointing to the casing.
- 12 1/4" Hole:** A callout box pointing to the casing.
- TOC 3610':** Total Open Casing depth.
- Stage Tool @ 4912':** Depth of the stage tool.
- Top of Cement 3610 CBL:** Cement top depth.
- 50 Sxs Lite, 660 sxs G:** Cement properties.
- Top of Sussex 4286:** Cement top depth.
- Bottom of Sussex:** Cement bottom depth.
- Top Cement (primary) 6822 CBL:** Cement top depth.
- 50 Sxs Lite, 660 sxs G:** Cement properties.
- Top of NIO 6992:** Cement top depth.
- NB Perfs 7084:** Cement depth.
- NB Perfs 7096:** Cement depth.
- Top of Codell 7290:** Cement top depth.
- CD Perfs 7292:** Cement depth.
- CD Perfs 7312:** Cement depth.
- Light Gray - Existing Cement:** A legend entry for the light gray color.

PROPOSED

Kelly Bushing 11 srf yes
140 sxs lite, 150 sxs G
Circ to Srf

Base of Fox Hills 438

Bttm Srfc Casing & Cmnt 472

8 5/8" 24# K-55

12 1/4" Hole

CIBP @ ~100'

Top Surface Plug
20 sxs Ready Mix
CIBP to Srf

4 1/2" 11.6# WC-80

7 7/8" Hole

Surface Plug
120 sxs cmt @ 600'-100'
14.0 ppg Type III +2% CaCl2

cut & Retrieve 4 1/2" from ~600

Spud Mud

Top of Cement 3610 CBL
50 Sxs Lite, 660 sxs G

Top of Sussex 4286

Bottom of Sussex 4700'

Sussex
65 sxs cmt @ 4700'-4200'
15.8 ppg "G" cement + 0.4% CD-32 + 0.4% ASA-301

Stage Tool @ 4912'

Spud Mud

2 perfs @ 6600'

CICR @ 6630'

2 perfs @ 6806'

Run CBL to confirm TOC

Top Cement (primary) 6822 CBL
50 Sxs Lite, 660 sxs G

Top of NIO 6992
NB Perfs 7084
NB Perfs 7096

Top of Codell 7290
CD Perfs 7292
CD Perfs 7312

Niobrara
40 sxs cmt @ 7400'
15.8 ppg "G" cement + 20% Silica Flour + 0.4% CD-32 + 0.4% ASA-301

806'-6600'
12"/"G" cement + 20% Silica Flour +

7400'
7680'