

Existing

KB=10'

Proposed

**HSR-Bernie 4-17****API: 05-123-19338**Surface Casing/Hole

Casing Size/Depth

8-5/8", 24#/ft @ 725'

Hole Size/Depth

12-1/4" @ 739'

Fox Hills Formation Base

670'

Cmt to Surf

100'

430'

Stub Plug Top

840'

Crack Coupling

940'

Stub Plug Bottom

150 sx

~43 bbl

Sussex  
TopNo perfs  
3980'

3780'

Suicide Perfs

3810'

Shannon  
BaseNo perfs  
4602'

4655'

Suicide Perfs

390 sx

~27 bbl

TOC 6334'

Niobrara Top

6877'

6330

Niobrara Plug

30 sx

Niobrara Perfs

6882' - 6946'

6790'

Codell Perfs

7147' - 7153'

Production Casing/Hole

Casing Size/Depth

4-1/2" 11.6 #/ft 7290'

Hole Size/Depth

7-7/8" 7298'

Existing cement
CICR
Existing CICR
CIBP
Existing CIBP
New Cement
Drilling mud