API:	**05-123-23675**	**ELEVATION:**	**4900**	**QTR-QTR:**	**NWNE**
WELL NAME:	**HP FARMS 31-13**	**GROUND LEVEL:**	**4887**	**SECTION:**	**13**
COUNTY:	**WELD**	**MD:**	**7762**	**TWNSHIP:**	**2N**
LATITUDE:	**40.143645**	**PBMD:**	**7694**	**RANGE:**	**65W**
LONGITUDE:	**-104.609268**	**CREATED BY:**	**D. HASZ**		
		DATE:	2/24/2017		

Existing

DATUM: RKB
KB=13'

Proposed

Hole Size/Depth 12 1/4" - 902'

Surface Casing

Casing Size/Depth: 8 5/8, 24#/ft @ 902'

Cmt to Surf
80'

852' TOC in S.C.

280 sx
1.5 yld

Fox Hills Formation Marker 1288'

1390' Shoot off casing

1490' BOC inside csg

TOC (from CBL) 3942'

4105' TOC inside csg

35 sx
1.53 yld

Sussex
Top 4306'
Base 4501'
Productive within 1 mile

4555' BOC inside csg

Shannon Absent
Not productive within 1 mile

DV Tool 4850'

BOC (from CBL) 4852'

TOC (from CBL) 6234'

6425' TOC inside csg

40 sx
1.53 yld

Niobrara Top 6825'

7050'

Codell Perfs 7114' - 7124'

2 sx

7355'

J Sand Perfs 7588' - 7616'

Production Casing/Hole
Casing Size/Depth 4 1/2'' x 11.6#/ft @ 7715'
Hole Size/Depth 7 7/8" (bit size) @ 7762'

- Existing Cement
- New CICR
- Existing CICR
- New CIBP
- Existing CIBP
- New Cement
- Sand Plug
- Existing Mud