

**Well** : DUCKWORTH 6-0-16  
**Field** : Wattenberg  
**County** : Weld County      **State** : Colorado  
**Surface** : Lat: 40.141484      Long: -105.002435  
: 1685' FNL, 1034' FEL SENE Sec 16 T2N R68W  
**API #** : 05-123-25893  
**Grd Elev** : 4871' GR      **KB Elevation**: 4886' KB

Log Tops:

Fox Hills Base 168'  
 Sussex 4460'  
 Niobrara 7416'  
 Codell 7650'  
 J Sand 8068'

Well History:

Spud 12-28-2008

Surface Hole

12-1/4" to 729'

Surface Casing

8-5/8", 24# IPSCO J-55  
 set @ 729', Cmt'd w/ 240  
 sx 13.1# Standard, and  
 100 sx 15.8# Standard

Shoot 4 Squeeze holes @ 770'

Set CIBP @ 780'  
 Pump 246 sxs Class G CMT in  
 annulus and casing to surface

DV TOOL @ 5270'

CBL (01/10/2009): shows good bond  
 from 5,270' to 3,770'  
 Cmt'd w/ 300 sx 13.8# 50/50 Poz

Set CICR at 6400'. Sting into retainer  
 and Squeeze/Fill csg and annulus  
 with 510 sx Class G Neat cement

Production Casing Part Verified 02/13/2009

Down hole camera verified the part @ 6,485'  
 Csg is separated w/ csg ends on opposite  
 sides of the hole. **The 2 ends do not  
 overlap.**

Ran casing inspection log 02/22/2009

Casing pitted from DV Tool down to part

Production Hole

7-7/8" to 8220'

Production Casing

4-1/2", 11.6# IPSCO I-80 set @ 8207'  
 Cmt'd w/ 230 sx 15.9# Premium  
 class G

Niobrara Perfs

7482' - 77498' @ 2 spf  
 Frac'd Nio w/ 127,680 gal 18# Vistar Hybrid cross  
 linked gel w/ 250,140# sand. 01/28/2009

Codell Perfs

7650' - 7670' @ 4 spf  
 Frac'd CD w/ 108,486 gal 24# Vistar Hybrid cross  
 linked gel w/ 250,780# sand. 01/13/2009

J Sand Perfs

8082' - 8100' @ 2 spf  
 Frac'd J-Sand w/ 155,064 gal 20# Vistar Hybrid  
 cross linked gel w/ 250,600# sand. 01/13/2009

PBDT 8176'  
 TD 7945'

Drawn by:

Nicholas Ronan

Date:

04/01/2015