

VERTICAL WELL SCHEMATIC

Well Name Doe Canyon 15 (DC-15)  
Pilot API # 05-033-06176-00  
S/T API # : N/A  
Section 11 Township 40N Range 18W  
Surface Hole: 1069' FSL, 1610' FWL Section 11, T40N R18W NMPM Elevation 7227'

Spud Date: 7/23/2013  
Pilot Completion Date: 8/27/2013  
S/T Completion Date: N/A

Updated: 9/10/13 VC

**Conductor Casing**

Size 20 in  
Set at 105 ft Conductor @ 105 ft

**Surface Casing**

Size 9-5/8 in  
Set at 2545 ft  
Wt. 36 ppf Grade J-55 surface to 2545 ft  
Hole Size 12-1/4 in  
Est. T.O.C. surface ft  
Csg Shoe @ 2545 ft

**Production Casing**

Size 7 in  
Wt. 29 ppf Grade 13 CR from surface to 5780 ft  
Wt. 32 ppf Grade 13 CR from 5780 to 8364 ft  
Wt. 29 ppf Grade 13 CR from 8364 to 8525 ft  
Hole Size 8-3/4 in  
Est. T.O.C. surface ft

Tubing Run Date: NA

**Conductor Cement**

cement with ready-mix to surface

**Surface Cement**

Date Cemented: 7/28/2013  
Lead : 800 sx Lite, 5# kol-seal, 1/8# poly-e-flake  
Tail : 300 sx Class G, .1% Halad@-9, 1/8# poly-e-flake  
Note : Circ 143bbbls to pits, top out w/ 40 sx Class G

**Prod Cement**

Date Cemented: 8/20/2013  
Lead : 2000 sx Elastiseal™, .2% Versaset, .2% Halad-766  
1.5% Chem-foamer 760  
Tail : 300 sx Halcem, .2% Versaset, .2% Halad-766  
Note : circ 115 bbls to pits, 100 sx Halcem cap cmt

Top of Leadville @ -8494'

Csg Shoe @ 8525 ft

**Pilot Cement**

Date Cemented: 8/25/2013  
Lead: 100 sx Class G, .4% HR-5, .2% CFR-3,  
1/8# poly-e-flake  
Note: balanced plug

TD Date: 8/27/13  
PBTD/KOP 8530'

TD Date: 8/24/13  
6" OH TD 8705'