

# Wellbore Diagram

Prepared by Hohn Engineering, PLLC  
11/26/2014

Operator: KGH Operating Company

Well: Hells Hole Federal #2  
Location: NWNW 12 2S 104W  
Field: Hells Hole Canyon  
County: Rio Blanco, CO  
API #: 05-103-09255

Spud 8/24/1985  
Rig Rel

GL: 6734 ft  
KB: 6747 ft

Surface Hole: 12 1/4 in to 507 Ft KB

Surface Csg: 8 5/8" 24#  
Cement: 250 sk 50/50 poz

@ 507 KB

Mancos 2946 ft

All Perfs 2 SPF  
Dakota

Perf 7028 to 7036 8 ft

Main Hole: 7 7/8 in to 7208  
Production casing: 4 1/2 in 10.5# to 7174

Cement: 600 sks Class G

PBTD 7174

TD 7208

## Proposed

100' Balance cement plug at surface

4.5" 10.5# Csg

ID - 4.052" Drift ID - 3.927"

0.6699 gal/ft 1.4652 ft/gal

0.0159 bbl/ft 62.70 ft/bbl

0.0895 cu ft/ft 11.167 ft/cu ft

## Proposed

2 SPF below casing shoe at 508'

100' balanced cement plug across shoe @ 507'

## Proposed

2 SPF 50' below Mancos at 2996'

100' balanced cement plug across mancos

## Proposed

400' Cement from bottom across perfs

PBTD 7,174