



575 Union Blvd, Suite 208
Lakewood, CO 80228
303-945-2860 Office

Geological Wellsite
Supervision

www.goolsbybrothers.com



Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: HOWARD 2N-33HZR (Horizontal Hole Section)
Location: Section 28, T1N, R67W, WELD County, CO.
License Number: API: 05-123-38006
Spud Date: November 9, 2013
Surface Coordinates: NWNE Sec 33 T1N R67W; 370' FNL 1094' FEL
Lat N 40.028309 Long W -104.890029
Bottom Hole Coordinates: NENE Sec 33 T1N R67W; -5087.71' N, -893.88' E

Region: DJ Basin, Wildcat
Drilling Completed: November 15, 2013

Ground Elevation (ft): 4983'
Logged Interval (ft): 7000'
Formation: Pierre Sands/Shales, Niobrara, Niobrara B Target
Type of Drilling Fluid: Water & Poly to 7050', LSND 7050' -12802'

To: 12802'

K.B. Elevation (ft): 4999'
Total Depth (ft): 12802' DMTD, 4762.70' VS

OPERATOR

Company: Kerr-McGee Oil & Gas Onshore LP
Address: Granite Tower - 1099 18th St, Ste 1800
Denver, CO 80202
CO Geologist, John Morgan

E-logs

MWD GR 6,940' - 12,753'

Casing

9 5/8" Surface Casing set @ 1027'
7" Intermediate Casing set @ 7,956'
4 1/2" Production Liner Hung @ 12,787' on 11/17/2013

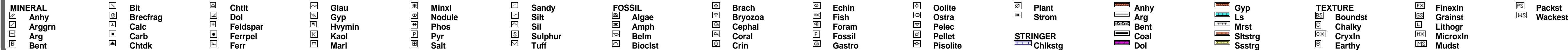
Comments

- 1) Drilling Contractor: XTREME, Rig #20
- 2) Company Man: Marvin Hackworth & Tom Kibbe
- 3) Mud Company: AES Drilling Fluids
- 4) Directional Drilling: Baker Hughes Pulse Tool
- Drillers: Barry Combs, Mark Snyder
- MWD: Greg Dore & Steve Cano
- 5) Gas Equipment: Mudlogging Systems Inc. by Terra Services
- Redbox # ML-462 & Ratcliff Agitator
- 6) Well Site Geology: Goolsby Brothers & Associates
- Geologists: Blake Stacey & Ian Harris

ROCK TYPES



ACCESSORIES



OTHER SYMBOLS



