



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

Well Name: GRENEMYER 15N-3HZ  
Location: Section 34, T1N, R67W, Weld County, CO..  
License Number: API: 05-123-38418  
Spud Date: February 11, 2014  
Surface Coordinates: NWNE Sec 34 T1N R67W; 689' FNL, 1620' FEL  
LAT: 40.046663 LONG: -104.5222757  
Bottom Hole Coordinates: NWSE Sec 3 T1S R67W; 2067' FSL; 1879' FEL  
  
Ground Elevation (ft): 5,052'  
Logged Interval (ft): 7000'  
Formation: Pierre Shales/Sands, Niobrara, Niobrara C Chalk Target  
Type of Drilling Fluid: Water & Poly to 6100', LSND 6100'-8026', OBM 8026'-15828'

To: 15828'

K.B. Elevation (ft): 5,068'  
Total Depth (ft): 15828' DMTD

Region: Wattenberg, DJ Basin  
Drilling Completed: March 16, 2014

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OPERATOR

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

GEOLOGIST

Name: Larry Goolsby, Blake Stacey & Shelton Davis  
Company: Goolsby Brothers & Assoc. (GBA), Inc. (www.goolsbybrothers.com)  
Address: 575 Union Blvd.  
Suite 208,  
Lakewood CO. 80228

E-logs

MWD GR 7000' - 15781.5'


Casing

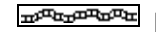
9 5/8" Surface Casing set @ 1095' MD  
7" Intermediate Casing set @ 8014' MD  
4 1/2" Production Liner hung 03/18/2014, landed @ 15,815' MD

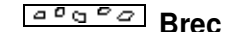
Comments


1) Drilling Contractor: Xtreme Drilling, Rig # 23  
2) Directional Drilling: DRILLTECH LLC  
MWD/LWD: DRILLTECH LLC  
3) Gas Equipment: Mudlogging Systems Inc.  
by Terra Services Redbox # ML-TGC 326 & Ratcliff Agitator


ROCK TYPES


 Anhy


 Bent


 Brec


 Cht


 Clyst

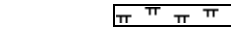
 Coal

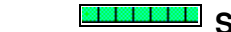
 Oil sat.

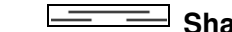
 Congl

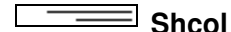
 Dol


 Gyp


 Lmst


 Mrlst


 Salt


 Shale


 Shcol


 Shgy


 Ss

 Sltst

 Ss

 Chalk

 Carb sh

 Sity sh

ACCESSORIES

 MINERAL

 Anhy

 Arggrn

 Arg

 Bent

 Bit

 Brecfrag

 Calc

 Carb

 Chtdk

 Chltt

 Dol

 Feldspar

 Ferrpel

 Ferr

 Glau

 Gyp

 Hvymn

 Kaol

 Marl

 Minxl

 Nodule

 Phos

 Pyr

 Salt

 Sandy

 Silt

 Sil

 Sulphur

 Tuff

 FOSSIL

 Algae

 Amph

 Belm

 Bioclst

 Brach

 Bryozoa

 Cephal

 Coral

 Crin

 Echin

 Fish

 Foram

 Fossil

 Gastro

 Oolite

 Ostra

 Pelec

 Pellet

 Pisolite

 Plant

 Strom

 STRINGER

 Chlkstg

 Anhy

 Arg

 Bent

 Coal

 Dol

 Gyp

 Ls

 Mrst

 Sltstrg

 Ssstrg

 TEXTURE

 Boundst

 Chalky

 Cryxln

 Earthy

 Finexln

 Grainst

 Lithogr


 Microxln


 Mudst


 Packst


 Wackest


OTHER SYMBOLS


 OIL SHOWS


 Even


 Spotted


 Ques


 Dead


 Vspotty


 near even


 POROSITY TYPE


 Earthy


 Fenest


 Fracture


 Inter


 Moldic


 Organic


 Pinpoint


 Vuggy


 ROUNDING


 Rounded


 Subrnd


 Subang

 Angular

 SORTING

 Well

 Moderate

 Poor



