


GOOLSBY BROTHERS
and associates, inc.
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 1C-28HZ (Horizontal Hole Section)

Location:

Section 28, T1N, R67W, Weld County, CO.

License Number:

API: 05-123-36933

Region:

Wattenberg, DJ Basin

Spud Date:

Oct 8, 2013

Drilling Completed:

October 16, 2013

Surface Coordinates:

NENE Sec 28 T1N R67W; 280' FNL 1094' FEL
Lat N 40.028556 Long W -104.89003

Bottom Hole Coordinates:

NENE Sec 33 T1N R67W; 4518' N, 495' E

Ground Elevation (ft):

4983'

K.B. Elevation (ft):

4999'

Logged Interval (ft):

6940'

To:

12,330'

Total Depth (ft):

12,330' DTMD

Formation:

Pierre Sands/Shales, Niobrara, Niobrara B, Codell Target

Type of Drilling Fluid:

Water & Poly to 7120', LSND 7120'-12,330'

Printed by HORIZONTAL.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company:

Kerr-McGee Oil & Gas Onshore LP

Address:

Granite Tower - 1099 18th St, Ste 1800
Denver, CO 80202
CO Geologist, John Morgan

GEOLOGIST

Name:

Hank McCroskey & Ian Harris

Company:

Goolsby Brothers & Assoc. (GBA), Inc. (www.goolsbybrothers.com)

Address:

575 Union Blvd.
Suite 208,
Lakewood CO. 80228

E-logs

MWD GR 7100' - 12,278'

Casing

9 5/8" Surface Casing set @ 1042' MD
7" Intermediate Casing set @ 8064'
4 1/2" Production Liner hung 10/17/2013, landed @ 12,315'

Comments

1) Drilling Contractor: XTREME, Rig #20
Tool pusher Siji Chaparro

2) Company Man: Marvin Hackworth & Tom Kibbe

3) Mud Comapny : AES Drilling Fluids

4) Directional Drilling: Baker Hugues
Pulse Tool


Drillers: Barry Combs, Scott Stanford

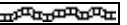
MWD: Greg Dore & David Campbell

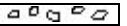
5) Gas Equipment: Mudlogging Systems Inc.
by Terra Services
Redbox # ML-462 & Ratcliff Agitator


6) Well Site Geology: Goolsby Brothers & Associates
Geologists: Hank McCroskey & Ian Harris


ROCK TYPES


 Anhy


 Bent


 Brec


 Cht


 Clyst


 Coal


 Oil sat.

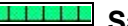
 Congl


 Dol


 Gyp


 Lmst


 Mrlst


 Salt


 Shale


 Shcol


 Shgy


 Ss

 Sltst

 Ss

 Chalk

 Carb sh

 Slty sh

MINERAL

Anhy

Arggrn

Arg

Bent

Bit

Brecfrag

Calc

Carb

Chtdk

Chtlt

Dol

Feldspar

Ferrpel

Ferr

Glau

Gyp

Hvymin

Kaol

Marl

Minxl

Nodule

Phos

Pyr

Salt

Sandy

Silt

Sil

Sulphur

Tuff

FOSSIL

Algae

Amph

Belm

Bioclst

Brach

Bryozoa

Cephal

Coral

ACCESSORIES

Crin

Echin

Fish

Foram

Fossil

Gastro

Oolite

Ostra

Pelec

Pellet

Pisolite

Plant

Strom

STRINGER

Chlkstg

Anhy

Arg

Bent

Coal

Dol

Gyp

Ls

Mrst

Slststrg

Ssstrg

TEXTURE

Boundst

Chalky

Cryxln

Earthy

Finexln

Grainst

Lithogr

Microxln

Mudst

Packst

Wackest

OIL SHOWS

Even

Spotted

Ques

Dead

Vspotty

near even

POROSITY TYPE

Earthy

Fenest

Fracture

Inter

Moldic

Organic

OTHER SYMBOLS

Pinpoint

Vuggy

ROUNDING

Rounded

Subrnd

Subang

Angular

SORTING

Well

Moderate

Poor

