

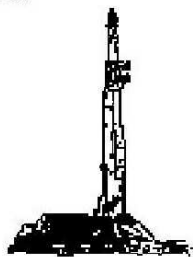
GOOLSBY BROTHERS and associates, inc.

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: HENRICKSON FEDERAL 14N-18HZ (Vertical Hole Section)

Location: Section 7, T3N, R66W, WELD County, CO.

License Number: API: 05-123-37671

Region: DJ Basin - Wattenberg

Spud Date: September 7, 2013

Drilling Completed: September 12, 2013

Surface Coordinates: NESW Sec 7 T3N R66W; 1855' FSL 2078' FWL

Lat N 40.236910 Long W -104.822441

Bottom Hole Coordinates: SESW Sec 18 T3N R66W; 482' FSL 2157' FWL

Ground Elevation (ft): 4794'

K.B. Elevation (ft): 4810'

Logged Interval (ft): 6500' **To:** 13923' **Total Depth (ft):** 13923' DMTD

Formation: Pierre Sands/Shales, Niobrara, Niobrara B Target

Type of Drilling Fluid: Water & Poly to 6500', LSND 6500' -13923'

Printed by STRIP.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

E-Logs

MWD GR - 975'-13880'

Contractors

1) **Drilling Contractor:** XTREME, Rig #20

2) **Company Man:** Charlie Daigle & Tom Kibbe

John Salario & Ricky Carrol

3) **Mud Comapny :** AES Drilling Fluids

Engineer: Ray Brewer

4) **Directional Drilling:** Baker Huges

Pulse Tool

Drillers: Barry Combs, Scott Stanford


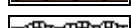
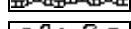
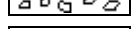

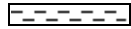

MWD: Greg Dore & David Campbell







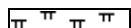
5) **Gas Equipment:** Mudlogging Systems Inc.


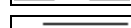
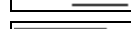
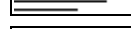



by Terra Services


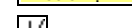
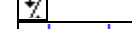

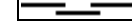
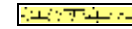
Redbox # ML-462 & Ratcliff Agitator

ROCK TYPES

 Anhy
 Bent
 Brec
 Cht
 Clyst
 Coal
 Congl




















 Dol
 Gyp
 Igne
 Lmst
 Meta
 Mrlst
 Salt











 Shale
 Shcol
 Shgy
 Slstt
 Ss
 Till
 Slty sh

 Arg ss
 Fracture
 Chalk
 Carb sh
 Arg lmy ss
 Cmt









ACCESSORIES

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












 Crin
 Echin
 Fish
 Foram
 Fossil
 Gastro
 Oolite
 Ostra
 Pelec
 Pellet
 Pisolite
 Plant
 Strom

STRINGER

 Anhy
 Arg
 Bent
 Coal
 Dol









 Gyp
 Ls
 Mrst
 Slststrg
 Ssstrg

TEXTURE

 Boundst
 Chalky
 Cryxln
 Earthy
 Finexln
 Grainst
 Lithogr
 Microxln
 Mudst
 Packst
 Wackest

OTHER SYMBOLS





POROSITY

 Earthy
 Fenest
 Fracture
 Inter
 Moldic
 Organic
 Pinpoint
 Vuggy





SORTING

 Well
 Moderate
 Poor



ROUNDING

 Rounded
 Subrnd
 Subang
 Angular

OIL SHOW

 Even
 Spotted
 Ques
 Dead

INTERVAL

 Core
 Dst

EVENT

 New bit
 Rft
 Off btm
 Conn
 Casing
 Casing_right

ROP, GR, SP		Slide / Ream	Conn	Depth	Lithology	Oil Show	Geological Descriptions	S	TG, C1-C4			Porosity		
ROP (min/ft)									TGAS (u)			MWI (ppg)		
MWD GR (API)									C1 (units)			MWO (ppg)		
WOB (kLBS)									C2 (units)					
									C3 (units)					
									C4 (units)					
MD 6450 TVD 0	P (min/ft)	2		64					0	TGAS (u)	5000	6	MWI (ppg)	12
0	MWD GR (API)	200							0	C1 (units)	5000	6	MWO (ppg)	12
0	WOB (kLBS)	50							0	C2 (units)	5000			
									0	C3 (units)	5000			
									0	C4 (units)	5000			
2 man wellsite geology team on location and rigged up Sept 08, 2013							NB #1, 8 3/4", STC, SDI6111, 5X15's/1X13, 9 5/8" Casing set @ 975'							

Begin drilling
curve
F/6500'(KOP) @
10:50hrs on
9/8/2013

