GOLSBY BROTHERS OIL AND GAS COMPANY, INC.

1050 Union Bank, Suite 300
Denver, Colorado 80237
(303) 573-5101 - Office

Geological Website
Golsby Brothers

www.golsbybrothers.com

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

Well Name: Switch State 14N-17H2
Location: SW SE 17-2N-64W, Weld County, CO.,
License Number: API: No CO-059-0618.
Spud Date: Spud: 11/1/2012 Drilling Completed: Release: 11/8/2012
Surface Coordinates: 527 FSL 531 FWL, SWSW Sec. 16 T2N R67W
Lat: 40.141667, Long: -104.887222
Bottom Hole: 1141 FSL, 2475 FWL, SESW Sec. 17 T2N R67W
Coordinates: Lat: 40.139475, Long: -104.882667
Ground Elevation: 4811 Kelly Bushing Elevation (ft): 4826' Region: Wattenberg
Logged Interval (ft): From: 4000' To: 11,500' Total Depth (ft): 11,500'
Formation: Niobrara
Type of Drilling Fluid: Water & Poly to 7350', Oil base mud 7,350'-10,800'
Contact us at: info@golsbybrothers.com Phone: 720-407-1310 www.thefdlight.com

OPERATOR

Company: Kerr-McGee Oil & Gas Onshore LP
Address: Gunnis Tower - 1099 18th St, Ste 1800
Denver, Colorado
Contact: Jonathan Birmingham

GEOLOGIST

Name: Alex Campana & Jim Golsby
Company: Golsby Brothers & Assoc. (GBA), Inc. (www.golsbybrothers.com)
Address: 1050 Union Bank
Suite 300
Lakewood,CO. 80228

E-logs

MWD GR 1312' - 10,800'

Casing

9 5/8" Surface Casing set @ 1,352 MD
7" Intermediate Casing set @ 7,350 MD
4 1/2" Production Liner hung @ 10,800 MD at 10:00' MD

Comments

1) Drilling Contractor: Visser Drilling, Rig #22
2) Drilling Method: Hollow Stem Auger
3) Company Man: Scott Hartung
4) Geologist: Brad Harris, Kevin Bastingfield
5) Sampling Method: Grab Samples Every 5 Feet Cont & Diamond Core
6) Directional Drilling: Sylvia/Hatch
Driller: Jacob Sutter & Bogdan Cristian
Helper: Jacob Sutter & Bogdan Cristian
7) Grout Emplacement: Grout
8) Site Restoration: Gravel Backfill & Bentonite & Aggregate
Geologists: Alex Cervera & John Adams

ROCK TYPES

Ashy	Oil sat	Salt	Sa		
Sand	Coral	Shale	Clayst		
Silt	Tuff	Silicr	Cont sh		
Clay	Gas	Lime	Silty Cl		
Coal	Wood	Dol			

ACCESSORIES

MINERAL		Wood	Fossils	Extra	Vol
Ashy		Roots	Fauna	Extra	Cor
Pyrite		Fe	Flora	Extra	Bit
Mica		Cu	Fauna	Extra	Mud
Bio		Sand	Fauna	Extra	Grang
Glauc		Silty	Fauna	Extra	Grang
Gypsum		Sil	Fauna	Extra	
Calc		Sd	Fauna	Extra	**CRYSTALS**
Chrt		Gr/gr	Fauna	Extra	Euhedral
Chrs			Fauna	Extra	Subhed
Cbn		**STRUC**	Fauna	Extra	Cubic
Fe		Bigin	Fauna	Extra	Cubic
Feldspar		Bmin	Fauna	Extra	Friable
Qtz		Bmax	Fauna	Extra	Friable
Tan		Bsmin			Uniform
Gray		Bsmax	**ROUNDING**		Uniform
Dgr		Bmed	Ang		Mottled
Green		Bcoal	Subang		Mottled
Blue		Cplan	Rnd		Redred
Red		Cwav	Srnd		

OTHER SYMBOLS

IN. WORD		**CONCRETE TYPE**	Pinpoint		Angular
Ashy		Fabric	Fine		
Gradual		Fabric	Fine		**ROUNDING**
Sand		Fabric	Fine		Angular
Sand		Inert	Fine		Rounded
Sand		Inert	Fine		Subang
Hole drain		Organic	Fine		Subang
Hole drain		Organic	Fine		

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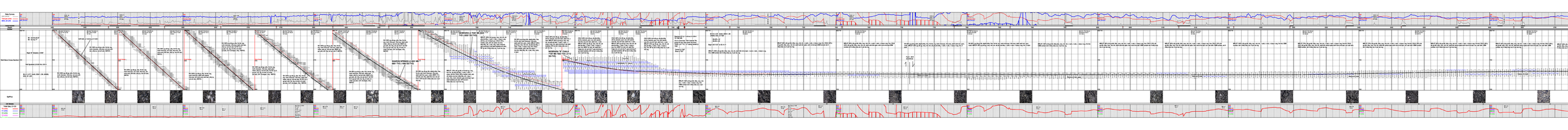
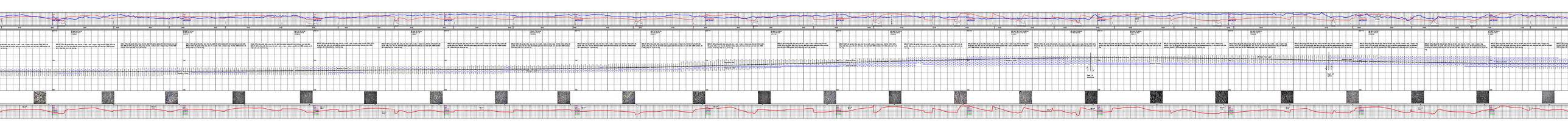
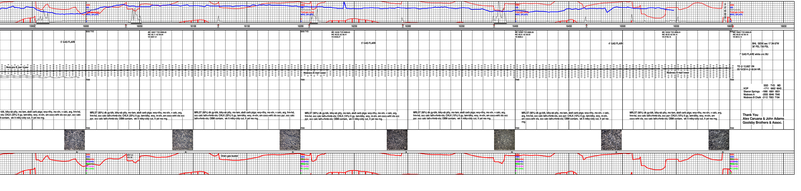

Data Curves
Total gas units
GR1 (API units)
Depth
Scale
Well Bore Cross Section
Sp/Poro
Oil Shows
Total Gas
C1
C2
C3
C4
C5
Depth (m Log Units)
Depth (m Log Units)




Thank You:
Jim Carter & John Adam
Gentile Brothers & Assoc.