GOLSBY BROTHERS
OIL AND GAS SERVICES, INC.

P.O. Box 1111, Hwy 180
Graham, Texas 76450
940-549-1001 Office

Geological Website
www.golsbybrothers.com

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

Well Name: **Farley 3606 EHZ**
Location: **API: 16 CO. 20180 TWNSH. Weld County, CO.**
License Number: **API: 16 CO.20180**
Region: **Wattenberg**
Spud Date: **Drilling Completed: 19 July 2013**
Surface Coordinates: **Lat: TD, 5 Add: FSL 50938 Sec. 23, T3N, R65W**
Long: TD, 5 Add: FWL 1112 Sec. 23, T3N, R65W
Bottom Hole: **Lat: Proj. 50938 Sec. 23, T3N, R65W**
Coordinates: **Lat: 40.21043 Long: Not Supplied**
Ground Elevation: **1,707 Kelly Bushing Elevation (ft): 4597**
Logged Interval (ft): **From: 1707 To: Total Depth (ft): 17707**
Total Depth (ft): **Bottom Hole Close**
Type of Drilling Fluid: **Polymer Gel**
Operations: Directional DRILLING for NOBLE by NORDSTAL,LTD Rig# 5
Mudlogging by NOBLE Systems 1-800-447-1534 www.NobleLogs.com

OPERATOR

Company: **Kerr-McGee Oil & Gas Onshore LP**
Address: **Events Coord - 1099 18th St, Ste 1800**
Denver, CO 80202
Contact Geologist: Nick Birmingham

GEOLOGIST

Name: **Tahaba Gedamu B. Ayalew**
Company: **Geology Analyst & Assoc. - GBAA, Inc. (www.golsbybrothers.com)**
Address: **1111 Hwy 180 E**
Suite 200
Jacksboro,CO. 80226

6 logs

MWD GR - 4600' - 11300'
RES TVD - 11343'

Casing

8 5/8" Surface Casing set @ 947'
7" Intermediate Casing set @ 7163' MD, set on 17 July, 2013
4 1/2" Production Casing set @ 12,000' MD, TBD

Comments

1) Drilling Contractor: Ensign Drilling, Rig # 325
2) Directional Drilling: Weatherford Drilling Services
3) Mud Logging: Geo-Logic Systems Ltd.
4) Gas Equipment: Mudlogging Systems Inc.
5) Wellhead:
Rodeo # 99, 183 & Hamill Ajetton

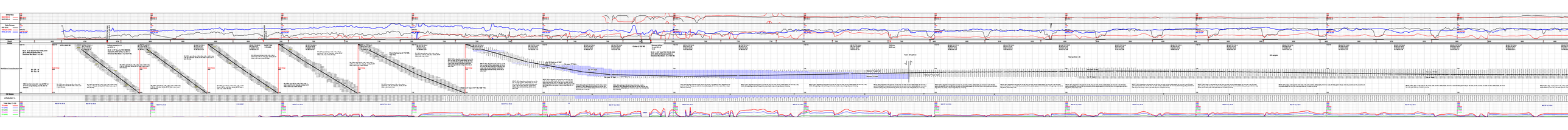
ROCK TYPES

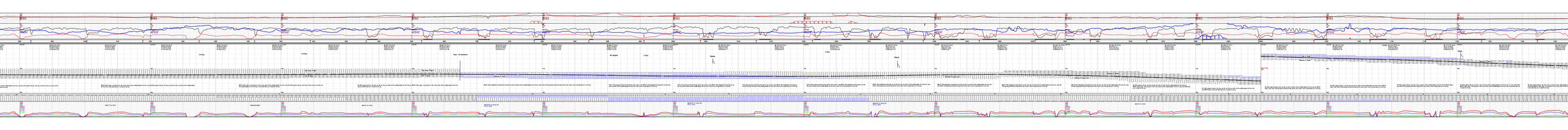
	Anhy		Dril-ad		Brec		Sh
	Bent		Clay*		Mrst		Slst
	Bit		Coal		Salt		Ss
	Dol		Gyp		Sand		Chalk
	Coal		Lmst		Shgy		any oth

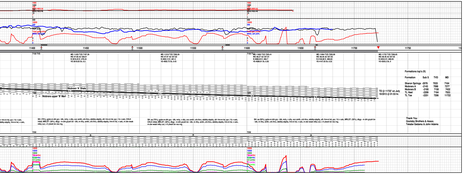
ACCESSORIES

MINERAL		**Mrcsl**		**Cem**	
	Arg	**Perm**		**Fos**	
	Argill	**Pisol**		**Fract**	
	Arg L	**Por**		**Frnds**	
	Bit	**Rip**		**Glauc**	
	Bit Sdy	**Sdy**		**Intbd**	
	Blk Shg	**Sdy Sh**		**Lam**	
	Calc	**Sil**		**Nodul**	
	Carb	**Sil Sulfur**		**Pelec**	
	Chert	**Tuff**		**Pyr**	
	Chlor			**Scat Mnrl**	
	Dol			**Stain**	
	Dol Anhydr	**COAL**			
	Fe Carb			**LITHOLOGY**	
	Fe Dol	**Bright**		**Cgl Rounded**	
	Fe Lmst	**Dull**		**Cgl Sub**	
	Fe Sh	**Fresh**		**Fissile**	
	Fe Slst	**Lustrous**		**Fossiliferous**	
	Fe Ss	**Resin**		**Gritty**	
	Fe Sulfur	**Waxy**		**Hackly**	
	Fe Sulfur Sh	**Weathered**		**Laminated**	
	Fe Sulfur Ss	**Woody**		**Mottled**	
	Fe Sulfur Slst			**Nodular**	
	Fe Sulfur Vfg Ss			**Pyritic**	
	Fe Vfg Ss			**Sandy**	
	Fe Vfg Slst			**Shaly**	
	Fe Vfg Sh			**Silty**	
	Fe Vfg Dol Ss			**Vfg**	
	Fe Vfg Dol Slst			**Vuggy**	
	Fe Vfg Dol Sh			**Weathered**	
	Fe Vfg Calc Ss				
	Fe Vfg Calc Slst				
	Fe Vfg Calc Sh				
	Fe Vfg Sulfur Ss				
	Fe Vfg Sulfur Slst				
	Fe Vfg Sulfur Sh				
	Fe Vfg Dol Sulfur Ss				
	Fe Vfg Dol Sulfur Slst				
	Fe Vfg Dol Sulfur Sh				
	Fe Vfg Calc Sulfur Ss				
	Fe Vfg Calc Sulfur Slst				
	Fe Vfg Calc Sulfur Sh				

SOIL SHOWS
Mottles
Gleying
Concretions
Coarse fragments
Impurity
Human artefacts
CONSISTENCY TYPE
Friable
Firm
Very firm
Loose
Weak
Compact
OTHER SYMBOLS
Diagonal
Vertical
STONES
Rounded
Subangular
Angular
CUTTING
Root
Boulders
Pour


WHO YES
WHO NO-X
Total Cross
Full Zero
WHO YES-X
WHO NO-X
Depth
Depth
Well Bore Cross Section TP
Bit Run 1
Bit Run 2
Bit Run 3
Bit Run 4
Bit Run 5
Bit Run 6
Bit Run 7
Bit Run 8
Bit Run 9
Bit Run 10
Bit Run 11
Bit Run 12
Bit Run 13
Bit Run


Tech - GF downthrust
Staying
Staying
Staying



Acceleration (g's) 4G

Elevation	Type A	Peak	MP
Above Ground	0.05	Peak	Total
Ground Level	0.05	Peak	Total
Underground	0.05	Peak	Total
Tie Plate	0.05	Peak	Total

Thank You
Gooding Rainbow & Assoc.
Mobile Metallurgy & Lab Testing