



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

Well Name: Gobbler 34C-23HZ (Horizontal Hole Section)  
Location: Section 22, T2N, R66W, Weld County, CO.  
License Number: API: 05-123-36476  
Spud Date: July 24, 2013  
Surface Coordinates: NENE Sec 22 T2N R66W; 556' FNL 279' FEL  
Lat N 40.129380 Long W -104.754897  
Bottom Hole Coordinates: SWSW Sec 23 T2N R66W; 4222.23' FNL; 325.73' FEL

Ground Elevation (ft): 5085'  
Logged Interval (ft): 7000'  
Formation: Pierre Shales/Sands, Niobrara, Codell Sand Target  
Type of Drilling Fluid: Water & Poly to 6,743', LSND 6743'-12,075'

To: 12,075'

K.B. Elevation (ft): 5101'  
Total Depth (ft): 12,075' DTMD

Region: Wattenberg  
Drilling Completed: July 30, 2013

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: Larry Goolsby & Ian Harris  
Company: Goolsby Brothers & Assoc. (GBA), Inc. (www.goolsbybrothers.com)  
Address: 575 Union Blvd.  
Suite 208,  
Lakewood CO. 80228

E-logs

MWD GR 7000' - 12034'  
MWD Resistivity 7926'-12027'


Casing


9 5/8" Surface Casing set @ 1016' MD  
7" Intermediate Casing set @ 7943' MD  
4 1/2" Production Liner hung 07/31/2013, landed @ 12,060'


Comments

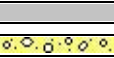
1) Drilling Contractor: Xtreme Drilling, Rig #20  
Toolpusher: Shaun Cox  
2) Company Man: Marvin Hackworth, Ricky Carroll  
3) Mud Company : AES  
Engineer: Ray Brewer  
4) Directional Drilling: Baker Hughes  
Pulse Tool  
Drillers: Travis Wilcox & Scott Sanford  
MWD: Mark Dix & Jeremiah Davidson  
5) Gas Equipment: Mudlogging Systems Inc.  
by Terra Services  
Redbox # ML-333 & Ratcliff Agitator  
6) Wellsite Geology: Goolsby Brothers & Associates  
Geologists: Larry Goolsby, Ian Harris


ROCK TYPES


Anhy Bent


Brec Cht

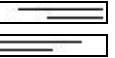
Clyst Coal


Oil sat. Congl


Dol Gyp


Lmst Mrlst

Salt Shale


Shcol Shgy


Ss Sltst


Ss Chalk


Carb sh Slt y sh


ACCESSORIES


Anhy


Arggrn


Arg


Bent


Bit


Brecfrag


Calc


Carb


Chtdk


Chtlt


Feldspar


Ferrpel


Ferr


Glau Gyp


Hvymin


Kaol


Marl


Minxl Nodule


Phos


Pyr


Salt


Sandy Silt


Sil


Sulphur


Tuff


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


Boundst


Chalky


Cryxln


Earthy

Finexln Grainst

Lithogr

Microxln

Mudst

Packst Wackest

**OIL SHOWS**

- [Symbol] Even
- [Symbol] Spotted Ques
- [Symbol] Dead Vspotty
- [Symbol] near even

**POROSITY TYPE**

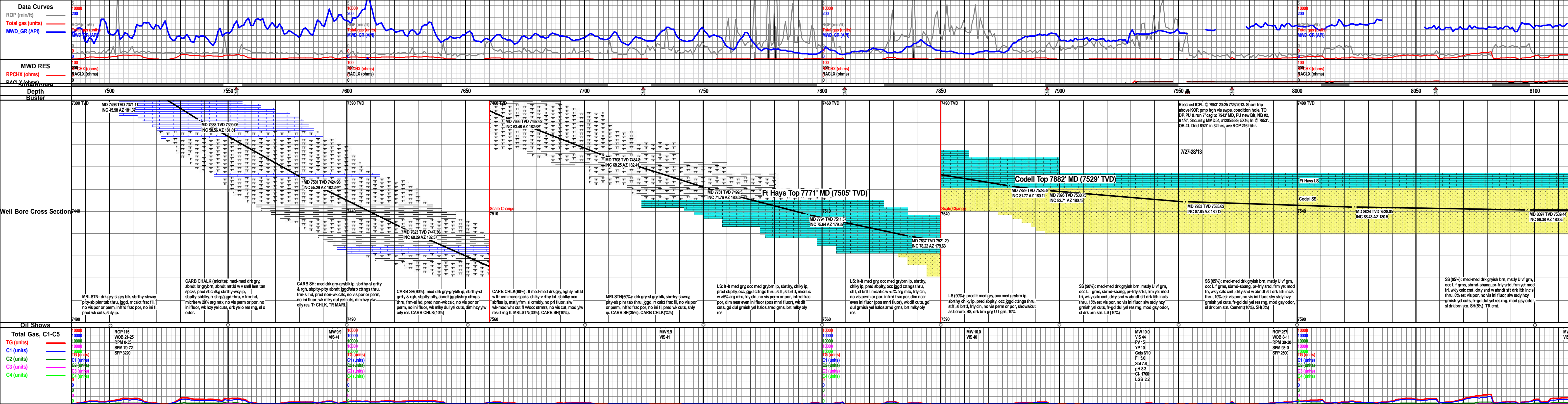
- [Symbol] Earthy
- [Symbol] Fenest Fracture
- [Symbol] Inter Moldic
- [Symbol] Organic Pinpoint
- [Symbol] Vuggy

**OTHER SYMBOLS**

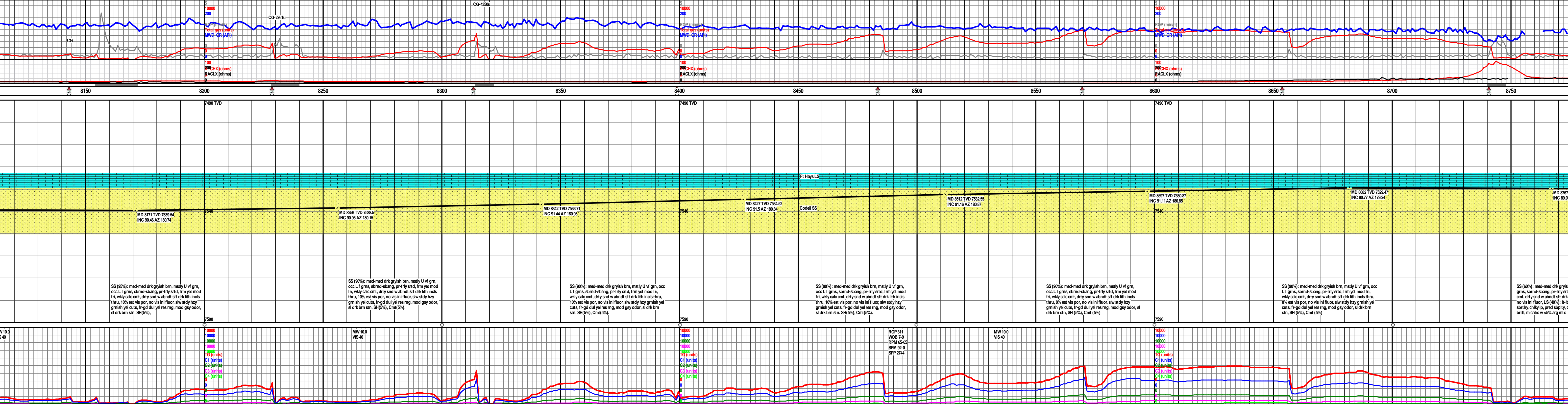
- [Symbol] ROUNDED Rounded
- [Symbol] Subrnd Subang
- [Symbol] Angular

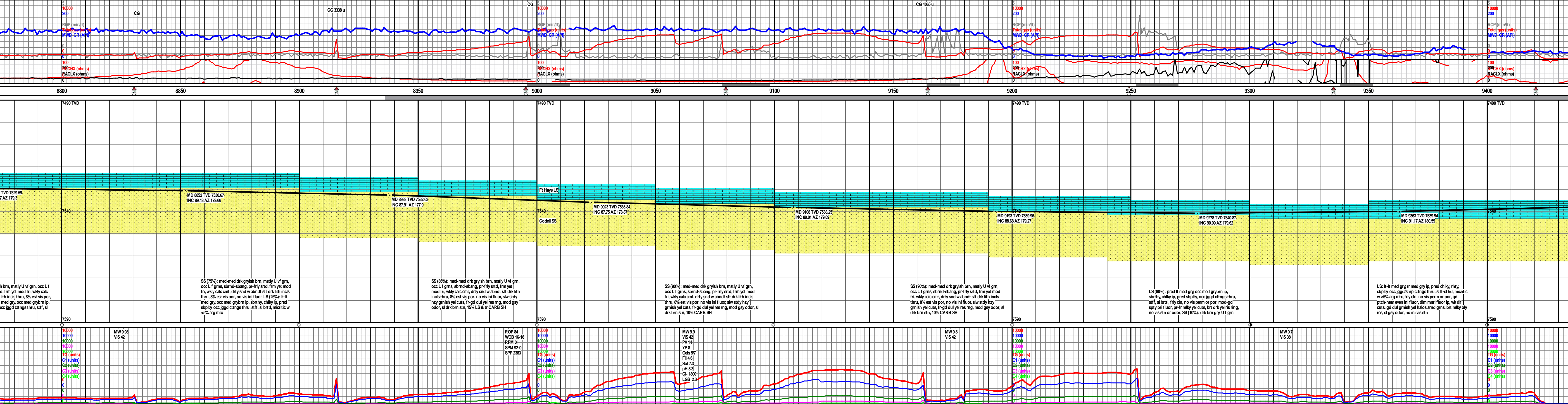
**SORTING**

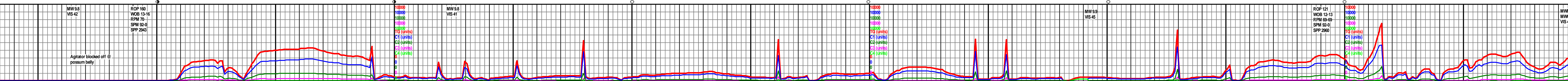
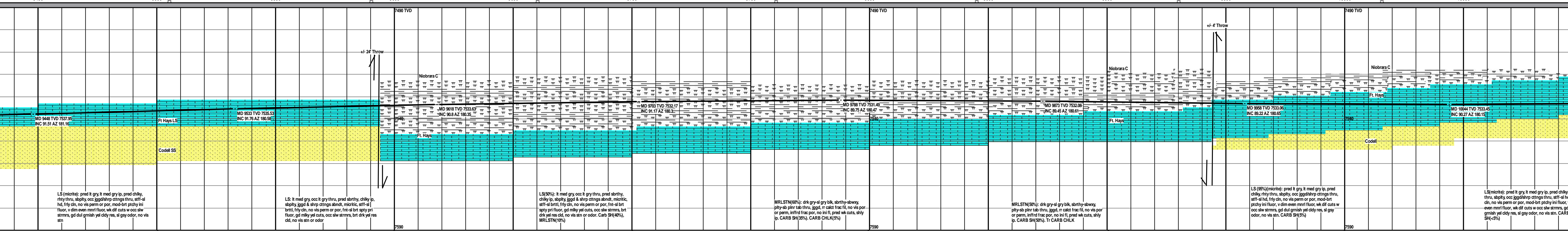
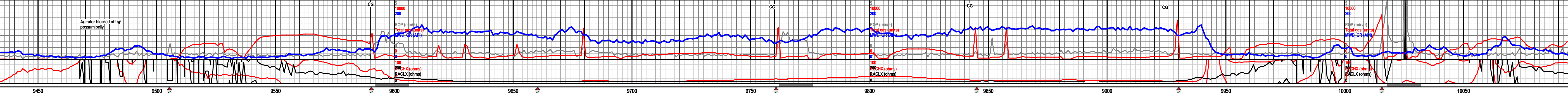
- [Symbol] Well
- [Symbol] Moderate Poor



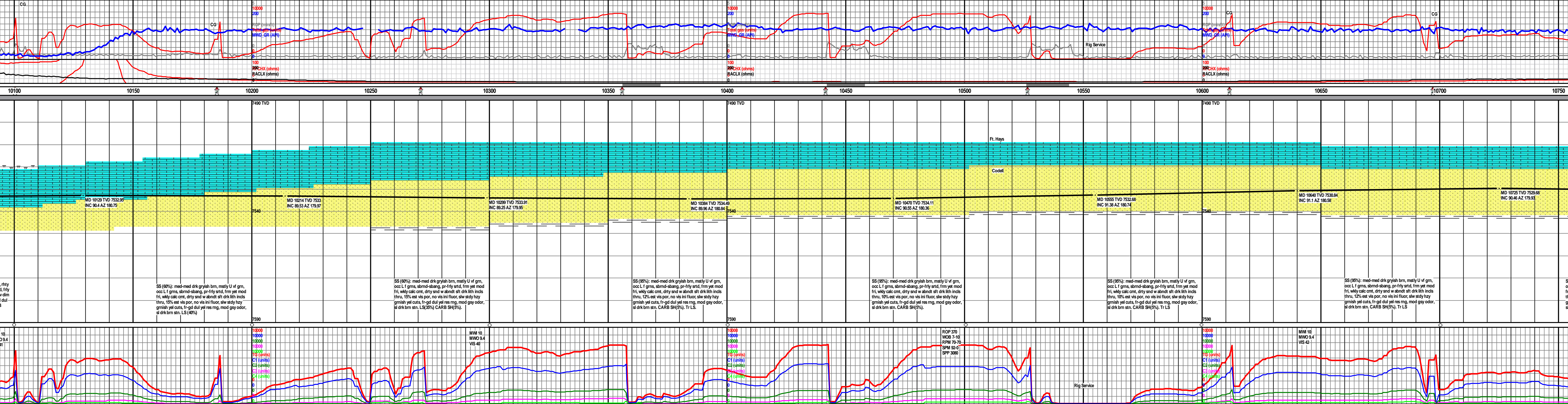


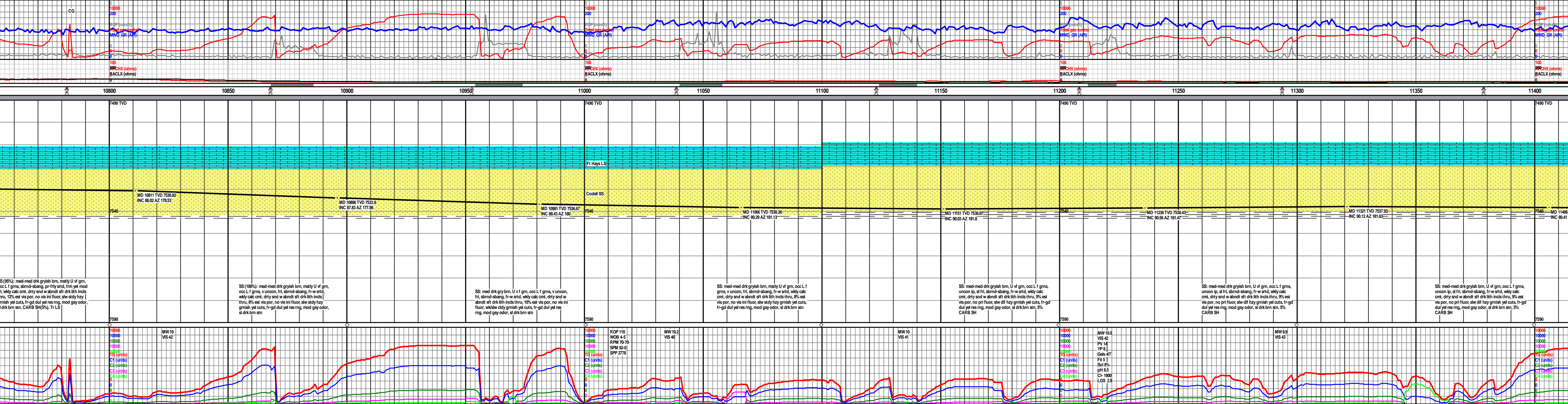




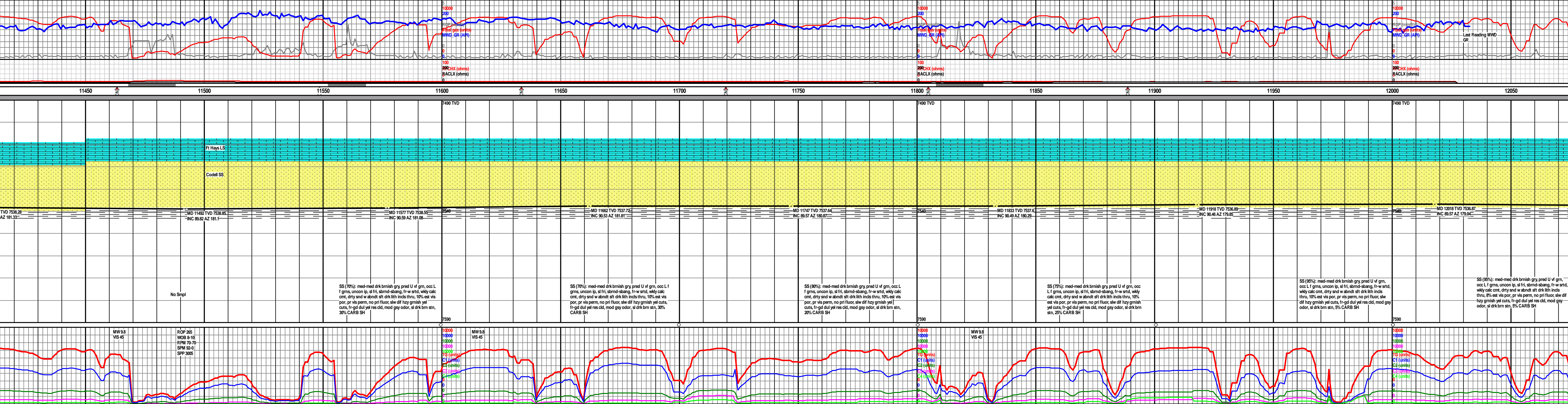


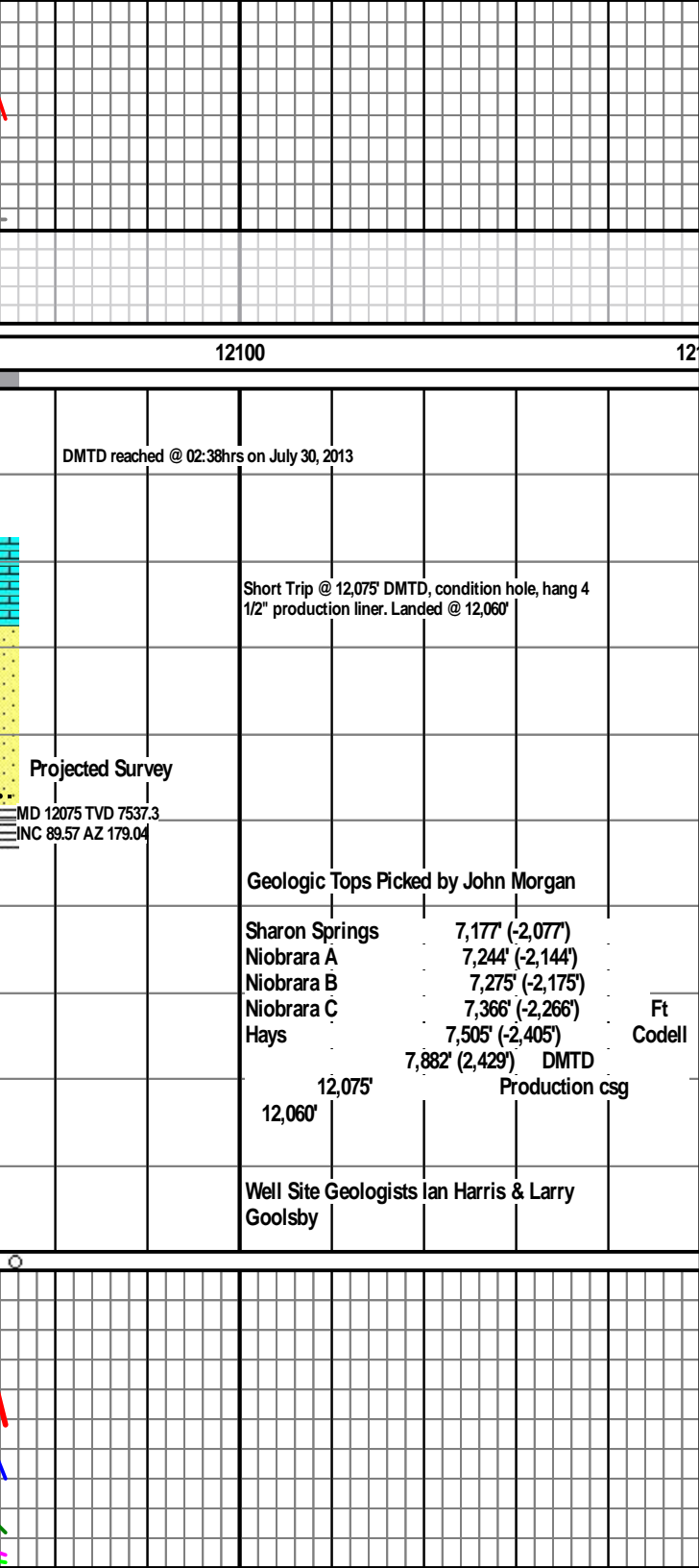












12100

12

DMTD reached @ 02:38hrs on July 30, 2013

Short Trip @ 12,075 DMTD, condition hole, hang 4  
1/2" production liner. Landed @ 12,060'

Projected Survey

MD 12075 TVD 7537.3  
INC 89.57 AZ 179.04

Geologic Tops Picked by John Morgan

Sharon Springs	7,177' (-2,077')	
Niobrara A	7,244' (-2,144')	
Niobrara B	7,275' (-2,175')	
Niobrara C	7,366' (-2,266')	Ft
Hays	7,505' (-2,405')	Codell
	7,882' (2,429')	DMTD

12,075' Production csg  
12,060'

Well Site Geologists Ian Harris & Larry  
Goolsby