



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

**Well Name:** SWAYZE # 1-7 (SE)  
**Location:** SW-NE-SE-SE  
**License Number:** API #15-025-21,526-00-00  
**Spud Date:** 7/28/11  
**Surface Coordinates:** 715' FSL & 415' FEL of SEC. 7 - TSP. 30 S. - RGE, 22 W.  
**Region:** CLARK CO., KS.  
**Drilling Completed:** 8/11/11

**Bottom Hole  
Coordinates:**  
**Ground Elevation (ft):** 2451'      **K.B. Elevation (ft):** 2461'  
**Logged Interval (ft):** Surface To: 6027'      **Total Depth (ft):** 6027'  
**Formation:** Mississippian "Cowley Facies" Formation  
**Type of Drilling Fluid:** CHEMICAL MUD

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

**OPERATOR**

**Company:** FALCON EXPLORATION  
**Address:** 125 NORTH MARKET STREET, STE. 1252  
WICHITA, KANSAS 67202

**GEOLOGIST**

**Name:** DAVID P. WILLIAMS, P.G.  
**Company:** DW ENERGY, LLC.  
**Address:** 312 NORTH BROADVIEW STREET  
WICHITA, KANSAS 67202

**CASING SET**

8-5/8" Surface Casing Set at 642'. Allied cemented with 225 sx 65/35,6% gel, 3% cc 1/4# floseal Tail In with 150 sx Class "A", 2% gel, 3% cc. Plug down at 11:00 A.M. 7/29/11 Plug held. Cement Did Circulate.

## DSTs


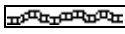
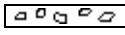
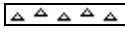
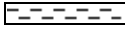







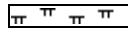
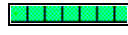
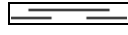
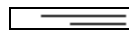
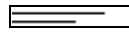







**DST # 1:** 5162'-5195' Times: 5"- 90"- 120"- 180" Blow: IF Weak Surface 2" Blow; FF Weak Building to Strong Blow to B.O.B. @ 102". Recovery: TF= 330': (300' SW (93% SW & 7% M)) + (30' MSW, 9% SW & 91% M)). Pressures: IH 2500#; FH 2427#; IF 45-53#; FF 55-183#; ISIP = 1705#; FSIP 1640#; Temp= 107 Degrees F.; Chl =140,000 Ppm; Mudco Chl. Re-Ck = Chl. ? Ppm.

**DST # 2:** 5408'-5470' Times: 5"-90"-80"-120" Blow: IF Weak Surface Inc to 2" Blow: FF Weak Building to Fair 5" Blow: Recovery: TF= 195':( 30' SOCM (1% O; 99% M; 65' SOWCM: 1% O, 8% SW & 91% M); 100' MCW w/Tr O): (Tr O, 76% SW & 24% M)). Pressures: IH 2587#; FH 2464#; IF 55-61#; FF 73-107#; ISIP 1735#; FSIP 1552#; Temp= 109 Degrees F.; Chl = 45,000 Ppm; Mudco Chl. Re-Ck = Dolo/Ls Wht-Crm-GrySucrosic Por lxn Por Grad LS Gry w/Grn (? Glacu) Inlus AA Cht Wht Op Shp Vit Pyr Mass Chalk Wht Sh Char-Gry-Grn-Drk Red No Odor No Stn ? Sli Min Flor (5% in Tray-Lt Grn) NS C ? Ppm.













































































**DST #3:** 5408'-5470' Times: 5"-90"-65"-98" Blow: IF Weak Surface 2" Blow. FF Weak Building to 1"@10",1/2"@ 20", No Blow @ 55". Recovery: TF= 185': (155' M + 30 WSOCM (1% O; 13% SW & 86% M)). Pressures: IH 2705#; FH 2369#; IF 143-152#; FF 112-113#; ISIP 1632#; FSIP 1348#; Temp= 111 Degrees F.; Chl = ? Ppm. Mudco Chl. Re-Ck = Chl. ? Ppm.

## Comments



























### ROCK TYPES

 Anhy  Bent  Brec  Cht  Clyst	 Coal  Congl  Dol  Gyp  Igne	 Lmst  Meta  Mrlst  Salt  Shale	 Shcol  Shgy  Sltst  Ss  Till	 Gry shale  Carb sh  Grn sh  Red shale
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### ACCESSORIES

<b>MINERAL</b>  Silty  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	 Oomold  Algae  Amph  Belm  Bioclst  Brach  Bryozoa  Cephal  Coral  Crin  Echin  Fish  Foram  Fossil  Gastro  Oolite  Ostra	 Pelec  Pellet  Pisolite  Plant  Strom	 Mrst  Sltstrg  Ssstrg	
				<b>STRINGER</b>  Clystn  Sltstn  Sandylms  Anhy  Arg  Bent  Coal  Dol  Gyp  Ls	<b>TEXTURE</b>  Boundst  Chalky  Cryxln  Earthy  Finexln  Grainst  Lithogr  Microxln  Mudst  Packst  Wackest

### OTHER SYMBOLS

<b>POROSITY</b>  Earthy  Fenest  Fracture  Inter  Moldic  Organic  Pinpoint	 Vuggy <b>SORTING</b>  Well  Moderate  Poor	<b>ROUNDING</b>  Rounded  Subrnd  Subang  Angular <b>OIL SHOW</b>  Gas show	 Even  Spotted  Ques  Dead <b>INTERVAL</b>  Dst_alt  Dst	 Core  Dst <b>EVENT</b>  Rft  Sidewall
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Curve Track 1

ROP (min/ft) ———  
Gas (units) .....  
Gamma (API) ———

Depth

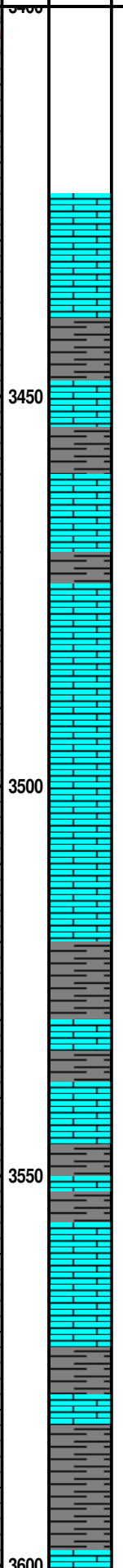
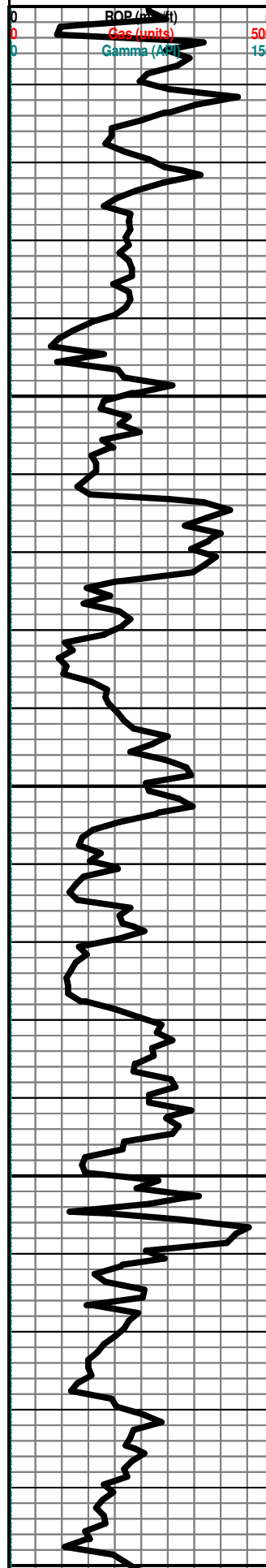
Oil Shows

Geological Descriptions

TG, C1-C5

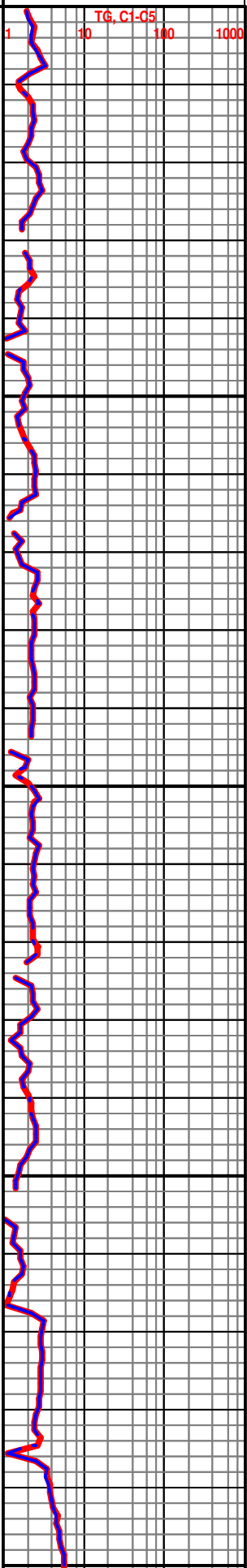
TG (Units) ———  
C1 (units) ———  
C2 (units) .....  
C3 (units) .....  
C4 (units) .....  
C5 (units) .....

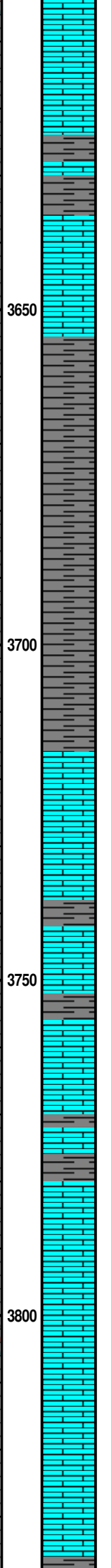
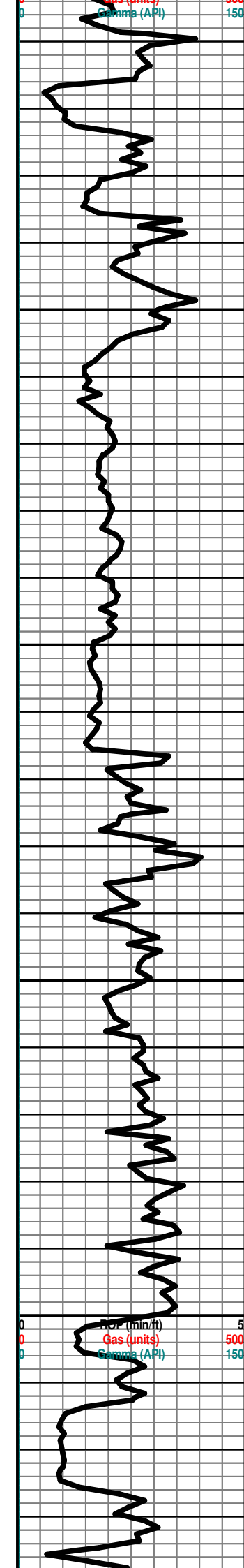
ROP (min/ft) 5  
Gas (units) 500  
Gamma (API) 150



FALCON EXPLORATION, INC.  
SWAYZE # 1-7 (SE)  
Sw-Ne-SE-Se - 715' FSL & 415' FEL  
Sec. 7 - Tsp. 30 S. Rge. 22 W.  
ELEVATIONS: 2461' K.B.; 2451' G.L.  
CONTRACTOR: VAL DRILLING - RIG # 1  
DEVIATION SURVEYS TAKEN:  
= 1 1/2 degree; @ 5195' = 1 degree; @ 6025' = 3/4 degree.

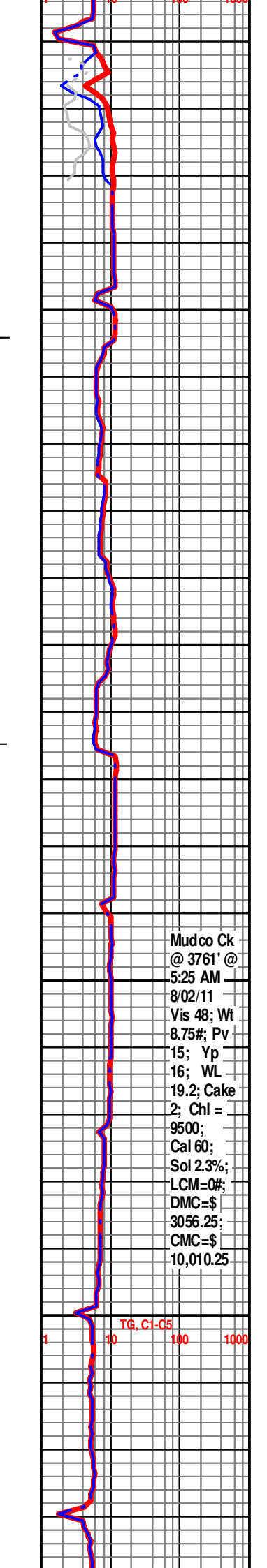
TG, C1-C5 1 10 100 1000



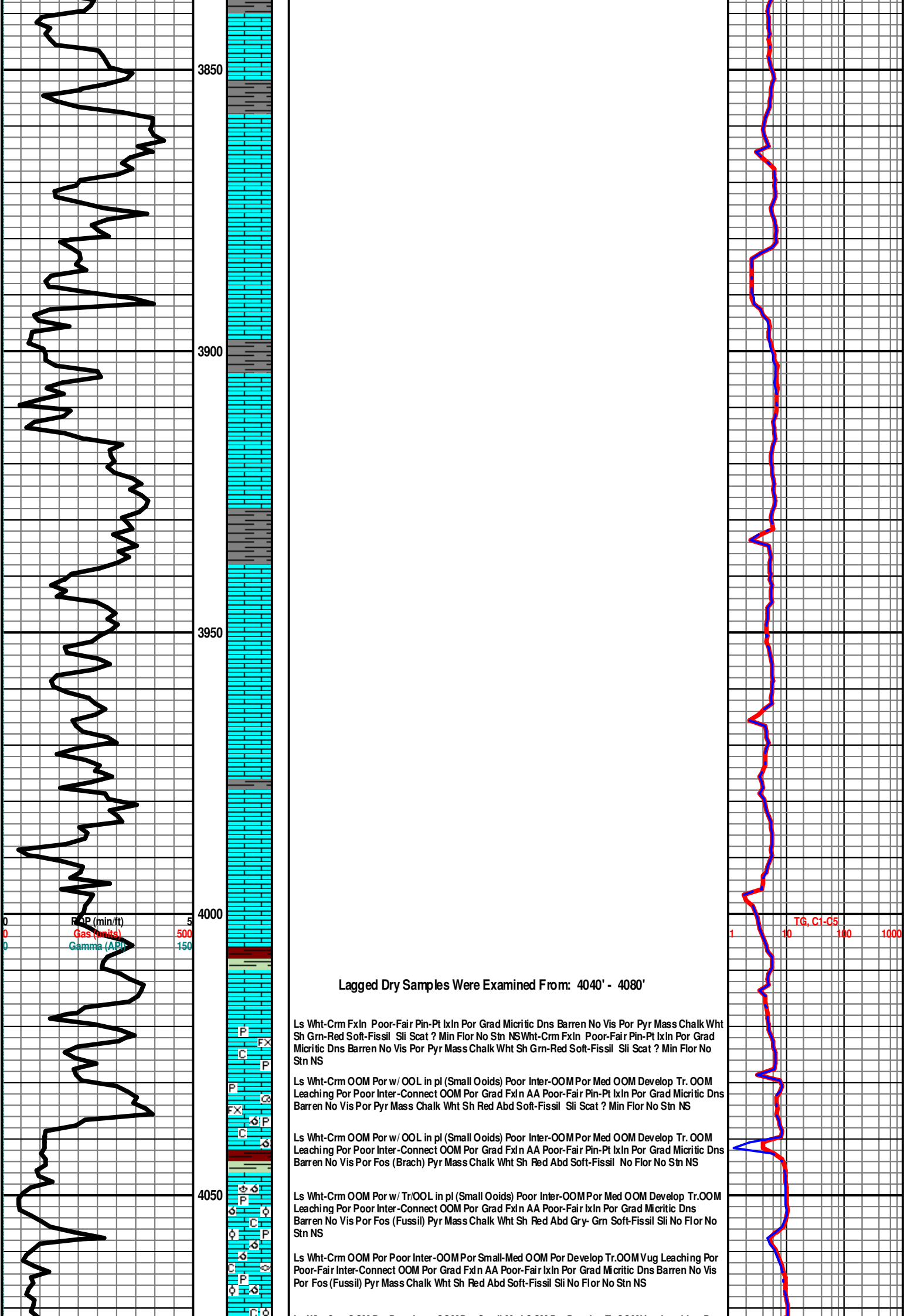


ROOT SHALE 3654' (- 1193)

STOTLER 3716' (- 1255)



Mudco Ck  
@ 3761' @  
5:25 AM  
8/02/11  
Vis 48; Wt  
8.75#; Pv  
15; Yp  
16; WL  
19.2; Cake  
2; Chl =  
9500;  
Cal 60;  
Sol 2.3%;  
LCM=0#;  
DMC=\$  
3056.25;  
CMC=\$  
10,010.25



**Lagged Dry Samples Were Examined From: 4040' - 4080'**

Ls Wht-Crm FxIn Poor-Fair Pin-Pt IxIn Por Grad Micritic Dns Barren No Vis Por Pyr Mass Chalk Wht Sh Grn-Red Soft-Fissil Sli Scat ? Min Flor No Stn NSWht-Crm FxIn Poor-Fair Pin-Pt IxIn Por Grad Micritic Dns Barren No Vis Por Pyr Mass Chalk Wht Sh Grn-Red Soft-Fissil Sli Scat ? Min Flor No Stn NS

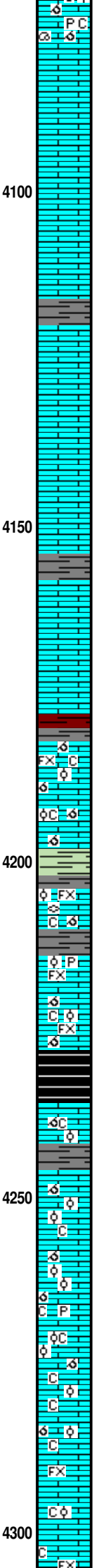
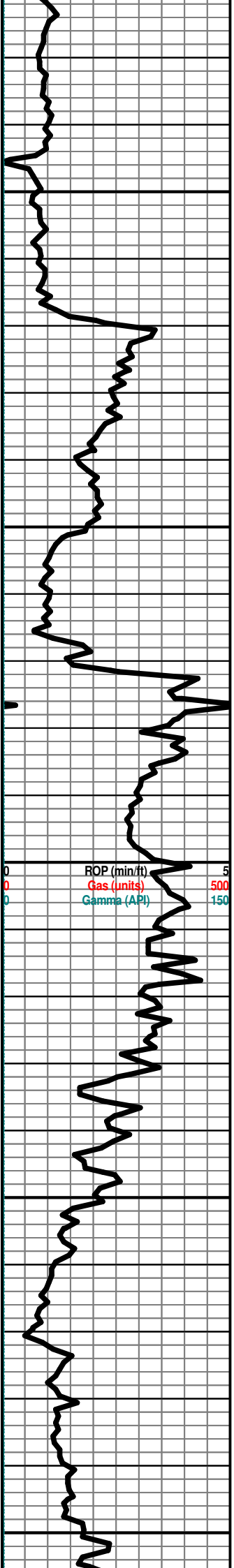
Ls Wht-Crm OOM Por w/ OOL in pl (Small Ooids) Poor Inter-OOMPor Med OOM Develop Tr. OOM Leaching Por Poor Inter-Connect OOM Por Grad FxIn AA Poor-Fair Pin-Pt IxIn Por Grad Micritic Dns Barren No Vis Por Pyr Mass Chalk Wht Sh Red Abd Soft-Fissil Sli Scat ? Min Flor No Stn NS

Ls Wht-Crm OOM Por w/ OOL in pl (Small Ooids) Poor Inter-OOMPor Med OOM Develop Tr. OOM Leaching Por Poor Inter-Connect OOM Por Grad FxIn AA Poor-Fair Pin-Pt IxIn Por Grad Micritic Dns Barren No Vis Por Fos (Brach) Pyr Mass Chalk Wht Sh Red Abd Soft-Fissil No Flor No Stn NS

Ls Wht-Crm OOM Por w/ Tr/OOL in pl (Small Ooids) Poor Inter-OOMPor Med OOM Develop Tr.OOM Leaching Por Poor Inter-Connect OOM Por Grad FxIn AA Poor-Fair IxIn Por Grad Micritic Dns Barren No Vis Por Fos (Fussil) Pyr Mass Chalk Wht Sh Red Abd Gry- Grn Soft-Fissil Sli No Flor No Stn NS

Ls Wht-Crm OOM Por Poor Inter-OOMPor Small-Med OOM Por Develop Tr.OOM Vug Leaching Por Poor-Fair Inter-Connect OOM Por Grad FxIn AA Poor-Fair IxIn Por Grad Micritic Dns Barren No Vis Por Fos (Fussil) Pyr Mass Chalk Wht Sh Red Abd Soft-Fissil Sli No Flor No Stn NS

Ls Wht-Crm OOM Por Poor Inter-OOM Por Small-Med OOM Por Develop Tr.OOM Vug Leaching Por  
 Poor-Fair Inter-Connect OOM Por Grad Fxln AA Poor-Fair Ixln Por Grad Micritic Dns Barren No Vis  
 Por Fos (Gastro) Pyr Mass Chalk Wht Sh Red Abd Soft-Fissil Sli No Flor No Stn NS



**Geologist: David P. Williams**  
**On Location @ 4220' @ 13:30 hours. on 8/03/11**

10' Wet & Dry Samples Examination Start @ 4200'.

Note: All

Samples Have Been Lagged To Depth By Calculated Time.

Ls Wht-Crm Fxln Dns Grad OOM Por w/ OOL in pl Poor InterOOL/OOM Por Poor  
 Disolution Poor Leaching Chalk Wht Sh Char-Gry-Red Soft-Fissil No Odor No  
 Flor No Stn NS

Ls Wht-Crm AA Fxln Dns Grad OOM Por w/ OOL in pl Poor InterOOL/OOM Por  
 Poor Disolution Poor Leaching Chalk Wht Sh Char-Gry-Red-Grn Soft-Fissil No  
 Odor No Flor No Stn NS

Ls Wht-Crm AA Fxln Dns Grad OOM Por w/ OOL in pl Poor InterOOL/OOM Por  
 Poor Disolution Poor Leaching Chalk Wht Fos (Fuss) Sh Char-Gry-Red-Grn  
 Soft-Fissil No Odor No Flor No Stn NS

Ls Wht-Crm AA Grad Fxln Dns Dec OOM Por w/ OOL in pl Poor InterOOL/OOM  
 Por Poor Disolution Poor Leaching Chalk Wht Pyr Mass Sh Char-Gry-Red-Grn  
 Soft-Fissil No Odor No Flor No Stn NS

Ls Wht-Crm AA Grad Fxln Dns Dec OOM Por w/ OOL in pl AA Poor InterOOL/OOM Por  
 Disolution Poor Leaching Chalk Wht Pyr Mass Sh Char-Gry-Red Soft-Fissil No Odor No Flor No Stn  
 NS

**KING HILL SHALE 4228' (- 1767)**

Sh Blk Carb-Char-Gry-Red-Grn Soft-Fissil Ls Wht-Crm Fxln Dns AA Barren  
 Chalk Wht No Odor No Flor No Stn NS

Sh Char-Gry-Red-Grn Soft-Fissil Ls Wht-Crm Fxln Dns AA Barren Chalk Wht No  
 Odor No Flor No Stn NS

Ls Wht-Crm Grad Fxln Dns Grad Poor InterOOL/OOM Por Poor Disolution Poor  
 Leaching Chalk Wht Pyr Mass Sh Char-Gry-Red-Grn Soft-Fissil No Odor No Flor  
 No Stn NS

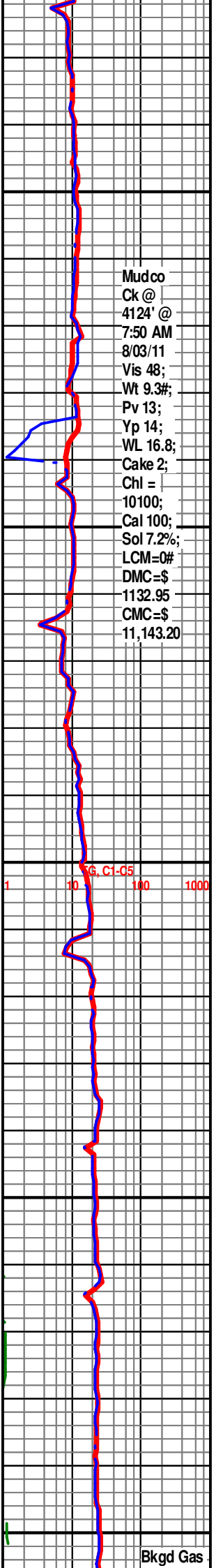
Ls Wht-Crm Grad Fxln Dns Grad Poor-Fair InterOOL/OOM Por Poor-Fair  
 Disolution Poor Leaching Chalk Wht Pyr Mass Sh Char-Gry-Red-Grn Soft-Fissil  
 No Odor No Flor No Stn NS

Ls Wht-Crm Grad Fxln Dns Dec Poor InterOOL/OOM Por Poor Disolution Poor  
 Leaching Chalk Wht Sh Char-Gry-Red-Grn Soft-Fissil No Odor No Flor No Stn  
 NS

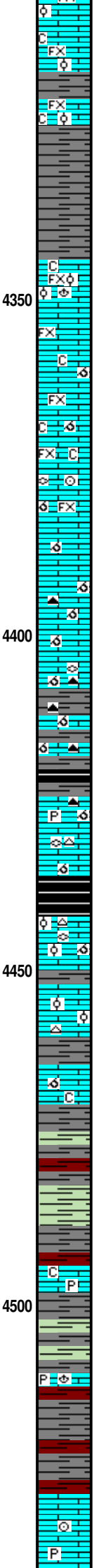
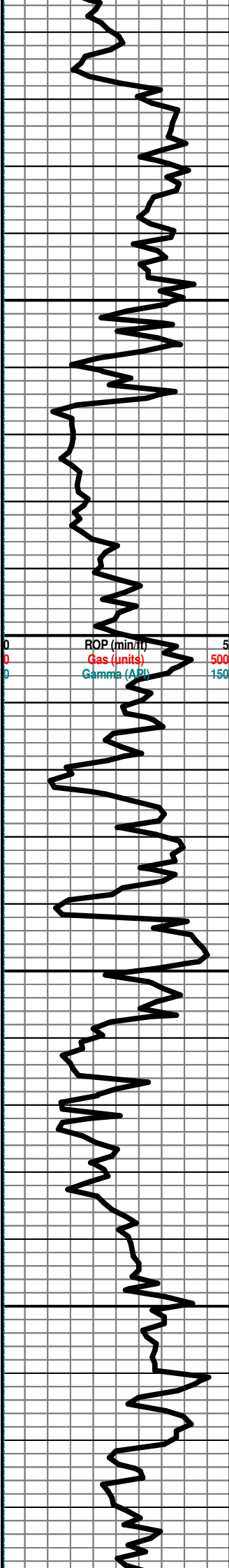
Ls Wht-Crm Grad Fxln w/Fair-Med Ixln Por Tr Med Vugs Barren Chalk Wht Sh  
 Gry-Red-Grn Soft-Fissil No Odor No Flor No Stn NS

Ls Wht-Crm Grad Fxln w/Fair-Med Ixln Por Pin-Pt Ixln Vug Por w/Tr Med Vugs  
 Barren Chalk Wht Sh Gry-Red-Grn Soft-Fissil No Odor No Flor No Stn NS

Ls Wht-Crm Grad Fxln w/Fair-Med Ixln Por Pin-Pt Ixln Vug Por w/Tr Med Vugs  
 Barren Chalk Wht Sh Gry-Red-Grn Soft-Fissil No Odor No Flor No Stn NS



Bkgd Gas



Ls Wht-Crm Grad Fxln w/Fair-Med Ixln Por Pin-Pt Ixln Vug Por W/Tr Med Vugs  
Barren Chalk Wht Sh Gry-Red-Grn Soft-Fissil No Odor No Flor No Stn NS

Ls Wht-Crm Grad Fxln w/Fair Ixln Por Pin-Pt Ixln Vug Por Dec w/Tr Fxln Vugs  
Barren Chalk Wht Sh Char-Gry-Red-Grn Inc Soft-Fissil No Odor No Flor No Stn NS

Sh Char-Gry-Red-Grn Inc Soft-Fissil Ls Wht-Crm AA Dec Grad Fxln w/Fair Ixln  
Por Pin-Pt Ixln Vug Por Dec w/Tr Fxln Vugs Barren Chalk No Odor No Flor No Stn NS

Ls Wht-Crm Grad Fxln w/Fair Ixln Por Grad Poor OOL Por w/Tr OOL in pl (Very  
Small) Poor Dis Poor Leaching Tr Small Pin-Pt Ixln Por Chalk Wht Fos (Brach)  
Sh Char-Gry-Red-Grn Inc Soft-Fissil No Odor No Flor No Stn NS

Ls Wht-Crm Grad Fxln w/Fair Ixln Por Chalk Wht Sh AA Char-Gry-Red-Grn Inc  
Soft-Fissil No Odor No Flor No Stn NS

Ls Wht-Crm Grad Fxln w/Fair Ixln Por Chalk Wht Sh AA Char-Gry-Red-Grn Inc  
Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Wht Fxln Poor Ixln Por Grad OOM Por Fair-Med Dis Poor-Fair-Med  
Leaching Chalk Wht Sh Char-Gry-Red Soft-Fissil No Odor No Flor No Stn NS

Sh Blk Carb-Char-Gry-Red Soft-Fissil Ls Crm-Wht-Gry Fxln Poor Ixln Por Grad  
OOM Por Fair-Med Dis Poor-Fair-Med Leaching Chalk Wht No Odor No Flor No Stn NS

Ls Crm-Wht-Gry Fxln Poor Ixln Por Grad OOM Por Fair Dis Poor-Fair Leaching  
Chalk Wht Sh Blk Carb-Char-Gry-Red Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Wht-Gry Fxln Poor Ixln Por Tr OOM Por AA Fair Dis Poor-Fair Leaching  
Cht Blk Op Shp Vit Fos (Fuss) No Odor No Flor No Stn NS

Sh Blk Carb-Char-Gry Soft-Fissil Ls Crm-Wht-Gry Fxln Poor Pin-Pt Ixln Por Cht  
Blk Op Shp Vit Pyr Mass No Odor No Flor No Stn NS

**HEEBNER SHALE 4418' (- 1961)**

Sh Blk Carb -Char-Gry-Red Soft-Fissil Ls Crm-Wht-Gry Fxln Poor Pin-Pt Ixln Por  
Grad Poor OOM Por Poor Dis Poor Leaching Fos (Fuss) Cht Gry Op Shp Vit No  
Odor No Flor No Stn NS

Ls Crm-Wht-Gry Fxln Poor Ixln Por Tr OOM Por AA Fair Dis Poor-Fair Leaching  
Cht Blk Op Shp Vit Fos (Fuss) No Odor No Flor No Stn NS

**TORONTO 4442' (- 1981)**

Ls Crm-Wht-GryAA Fxln Poor Ixln Por Tr Gran OOL Por Poor Inter-OOL (V  
Small) Por Cht Gry Op Shp Vit Fos (Fuss) No Odor No Flor No Stn NS

**DOUGLAS SH 4458' (- 1997)**

Sh Char-Gry Abd Soft-Fissil Ls Crm-Wht-Gry AA Fxln Poor Pin-Pt Ixln Por Grad Tr/Poor OOM  
PorAA Poor Dis Poor Leaching Chalk Wht No Odor No Flor No Stn NS

Sh Char-Gry-Grn AA Fissil Inc Ls Crm AA Fxln Chalky Tr/ Ls Wht Fxln Dns w/Pyr Includ No Odor Tr  
Scatt Lt Grn Flor ? Min Flor No Stn NS

Sh Char-Gry-Grn-Fissil Inc Ls Crm AA Fxln Chalky No Odor Tr Scatt Lt Grn Flor  
? Min Flor No Stn NS

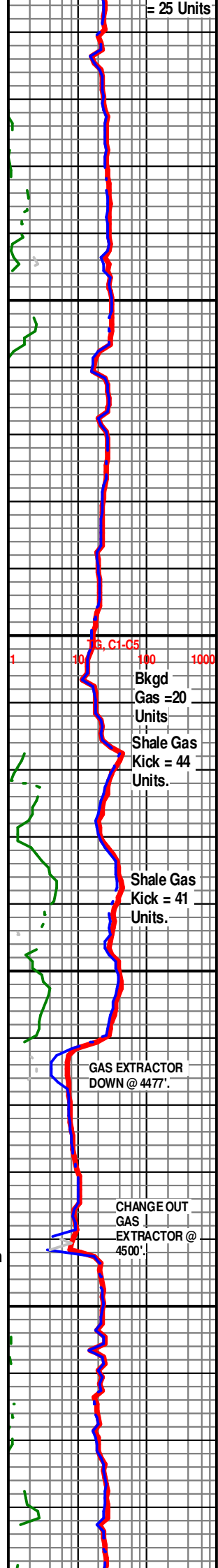
Sh Char-Gry Abd Soft-Fissil Ls Crm-Wht-Gry AA Fxln Poor Pin-Pt Ixln Por Grad  
Tr/Poor OOM PorAA Poor Dis Poor Leaching Chalk Wht No Odor No Flor No Stn NS

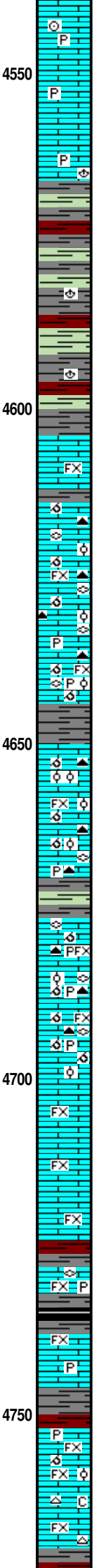
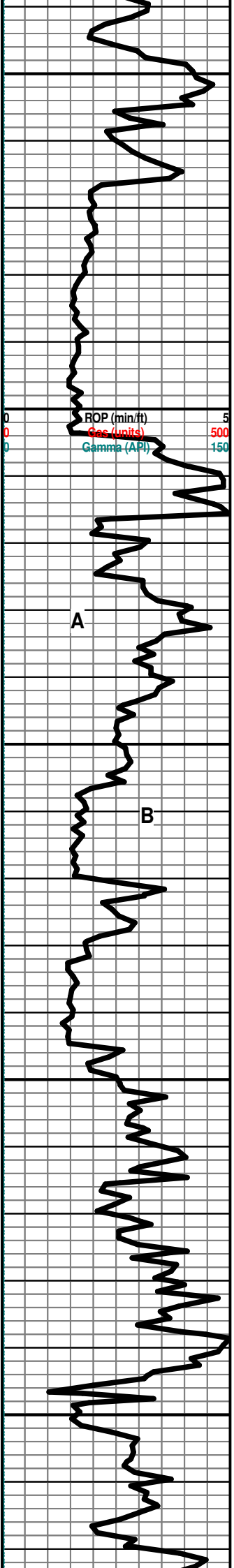
Sh Char-Gry-Grn Fissil Inc Ls Crm AA Fxln Chalky Tr/ Ls Wht Fxln Dns w/Pyr  
Includ Fos (Brach) No Odor Tr Scatt Lt Grn Flor ? Min Flor No Stn NS

Ls Crm-Wht-Crm-Tan Fxln Poor Ixln Por Dns w/Pyr Includ Fos (Brach) Sh  
Char-Gry-Grn-Red Fissil No Odor Tr Scatt Lt Grn Flor ? Min Flor No Stn NS

Sh Char-Gry-Grn Tr/Red Fissil Inc Ls Crm AA Fxln Chalky Fos (Brach) No Odor  
Tr Scatt Lt Grn Flor ? Min Flor No Stn NS

Ls Crm-Wht Tan Fxln Poor Ixln Por Pyr Mass Fos (Crin) Sh Char-Gry-Grn-Red  
Dec Fissil No Odor Tr Scatt Lt Gm Flor ? Min Flor No Stn NS





Ls Crm-Wht-Tan Fxln Poor Ixln Por Pyr Mass Fos (Crin) Sh Char-Gry-Grn- Red Dec AA Fissil No Odor Tr Scatt Lt Grn Flor ? Min Flor No Stn NS

Ls Crm-Wht-Tan Fxln Poor Ixln Por Pyr Mass Sh Char-Gry-Grn- Red Dec AA Fissil No Odor Tr Scatt Lt Grm Flor ? Min Flor No Stn NS

Ls Crm-Wht-Tan Fxln Poor Ixln Por Pyr Mass Sh Char-Gry-Grn- Red Dec AA Fissil No Odor Tr Scatt Lt Grm Flor ? Min Flor No Stn NS

Ls Crm-Wht-Tan Fxln Poor Ixln Por Pyr Mass Sh Char-Gry-Grn Red Inc Fissil No Odor Tr Scatt Lt Grn Flor ? Min Flor No Stn NS

Sh Char-Gry-Grn-Red Fissil Inc Ls Crm AA Fxln Chalky Fos (Brach) No Odor Tr Scatt Lt Grn Flor ? Min Flor No Stn NS

Sh Char-Gry-Grn-Red Fissil Inc Ls Crm AA Fxln Chalky Fos (Brach) No Odor Tr Scatt Lt Grn Flor ? Min Flor No Stn NS

**IATAN (BROWN LIME) 4604' (- 2143)**  
 Ls Crm-Wht-Tan Fxln Poor Ixln Por Sh Char-Gry-Grn-Red Fissi No Odor Tr Scatt Lt Grn Flor ? Min Flor No Stn NS

**LANSING 4616' (- 2155)**  
 Ls Wht-Crm-Gry Fxln w/Poor-Fair Ixln Por Grad Tr/OOM Por w/Tr OOL in pl (Very Small) Poor Dis Poor Leaching Fos (Fuss) Cht Drk Char Shp Vit Op Sh Char-Gry-Red-Grn Soft-Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Gry AA Fxln w/Poor-Fair Ixln Por Grad Tr/OOM Por w/Tr OOL in pl (Very Small) Poor Dis Poor Leaching Fos (Fuss) Cht Drk Char Shp Vit Op Sh Char-Gry-Red-Grn Soft-Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Gry Fxln w/Poor-Fair Ixln Por w/ Pyr Includ Grad Tr/OOM Por w/Tr OOL in pl (Very Small) Poor Dis Poor Leaching Fos (Fuss) Cht Drk Char Shp Vit Op Sh Char-Gry-Red-Grn Soft-Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Gry Fxln w/Poor-Fair Ixln Por w/ Pyr Includ Grad Tr/OOM Por w/Tr OOL in pl (Very Small) Poor Dis Poor Leaching Fos (Fuss) Cht Drk Char Shp Vit Op Sh Char-Gry-Red-Grn Soft-Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Gry Fxln w/Poor-Fair Ixln Por w/ Pyr Includ Grad Tr/OOM Por w/Tr OOL in pl (Very Small) Poor Dis Poor Leaching Fos (Fuss) Cht Drk Char Shp Vit Op Sh Char-Gry-Red-Grn Soft-Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Gry Fxln w/Poor-Fair Ixln Por w/ Pyr Includ Grad Tr/OOM Por w/Tr OOL in pl (Very Small) Poor Dis Poor Leaching Fos (Fuss) Cht Drk Char Shp Vit Op Sh Char-Gry-Red-Grn Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Wht-Tan Fxln Poor Ixln Por Sh Char-Gry-Grn-Red Fissil No Odor Tr Scatt Lt Grn Flor ? Min Flor No Stn NS

Ls Crm-Wht-Tan Fxln Poor Ixln Por Sh Char-Gry-Grn-Red Fissil No Odor Tr Scatt Lt Grn Flor ? Min Flor No Stn NS

Ls Crm-Wht-Tan-Gry Fxln Poor Ixln Por Sh Char-Gry-Grn-Red Fissil No Odor Tr Scatt Lt Grn Flor ? Min Flor No Stn NS

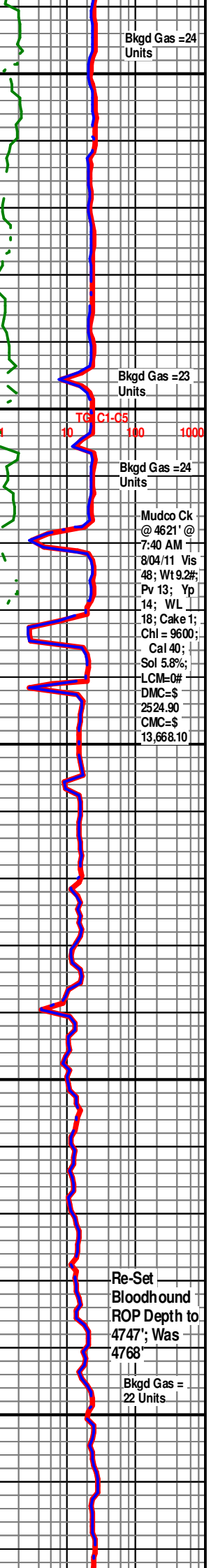
Ls Crm-Wht-Tan-Gry Fxln Poor -Fair Ixln Por w/Tr Pyr Includ Fos (Fuss) Sh Blk Carb-Char-Gry Fissil No Odor Tr Scatt Lt Gm Flor ? Min Flor No Stn NS

Ls Crm-Wht-Tan-Gry Fxln Poor -Fair Ixln Por w/Tr Pyr Includ Cht Gry Op Shp Vit Fos (Fuss) Sh Blk Carb-Char-Gry Fissil No Odor Tr Scatt Lt Gm Flor ? Min Flor No Stn NS

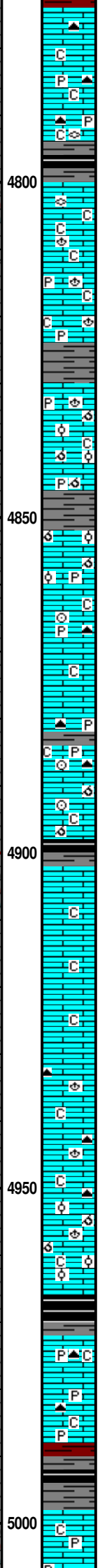
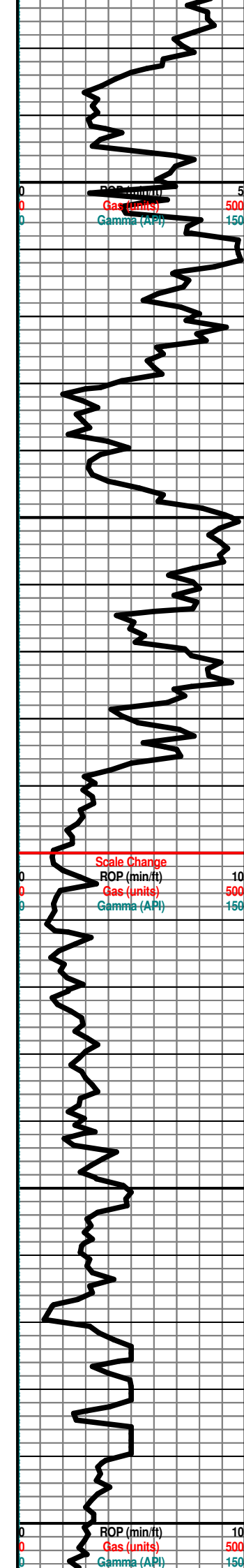
Ls Wht-Crm-Gry Fxln w/Poor-Fair Ixln Por w/ Pyr Includ Grad Tr/OOM Por w/Tr OOL in pl (Very Small) Poor Dis Poor Leaching Fos (Fuss) Cht Drk Char Shp Vit Op Chalk Wht Sh Char-Gry-Red-Grn Soft-Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Gry Fxln w/Poor-Fair Ixln Por Cht Gry Shp Vit Op Chalk Wht Sh Char-Gry-Red-Grn Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Gry Fxln w/Poor-Fair Ixln Por Cht Gry Shp Vit Op Chalk Wht Sh







Ls Crm-Gry Fxln w/Poor-Fair Ixln Por Cht Gry Shp Vit Op Chalk Wht Sh Char-Gry-Red-Grn Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Gry Fxln w/Poor-Fair Ixln Por w/Pyr Inclus Grad Ls Wht Fxln Gran OOL Por Poor-Fair Cht Drk Gry Shp Vit Op Chalk Wht Sh Char-Gry Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Gry Fxln w/Poor-Fair Ixln Por w/Pyr Inclus Grad Ls Wht Fxln Gran OOL Por Poor-Fair Cht Drk Gry Shp Vit Op Fos (Brach) Chalk Wht Sh Char-Gry-Red Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Gry Fxln w/Poor-Fair Ixln Por w/Pyr Mass Fos (Brach) Chalk Wht Sh Char-Gry-Red Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Gry Fxln w/Poor-Fair Ixln Por w/Pyr Mass Fos (Brach) Chalk Wht Sh Char-Gry-Red Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Gry Fxln w/Poor-Fair Ixln Por w/Pyr Mass Fos (Brach) Chalk Wht Sh Char-Gry-Red Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Gry Fxln w/Poor-Fair Ixln Por Grad Ls Wht Small OOL in pl Poor-Fair InterOOL/OOM Por Poor Dis Poor Devel Sh Char-Gry Soft-Fissil No Odor No Flor No Stn NS

Sh Char-Gry-Tan Soft-Fissil Ls Crm-Gry Fxln w/Poor-Fair Ixln Por Grad Ls Wht Dec Small OOL in pl Poor-Fair InterOOL/OOM Por Poor Dis Poor Develop Pyr Mass No Odor No Flor No Stn NS

No Sample Caught Crew Change

Ls Crm-Tan-Gry Fxln w/Poor-Fair Ixln Por w/Pyr Mass Cht Brn Op Shp Vit Fos (Crin) Chalk Wht Sh Char-Gry-Brn-Red Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Tan-Gry Fxln w/Poor-Fair Ixln Por w/Pyr Mass Cht Brn Op Shp Vit Fos (Crin) Chalk Wht Sh Char-Gry-Brn-Red Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Tan-Gry Fxln w/Poor-Fair Ixln Por Grad Ls Crm Poor OOM Por Poor Dissol Poor Leaching Barren Cht Gry-Brn Banded Op Shp Vit Chalk Wht Tr Dec Fos (Crin) Sh Char-Gry-Red Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Tan-Gry-Wht Fxln w/Poor-Fair Ixln Por Chalk Wht Inc Sh Blk-Carb-Char-Gry-Red Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Tan-Gry-Wht Fxln w/Poor-Fair Ixln Por Chalk Wht Sh Char-Gry-Grn-Red Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Tan-Gry-Wht Fxln w/Poor-Fair Ixln Por Chalk Wht Sh Char-Gry-Red Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Tan-Gry-Wht Fxln w/Poor-Fair Ixln Pin-Pt Por Cht Gry Op Shp Vit Fos (Brach) Chalk Wht Sh Char-Gry-Red Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Gry-Wht Fxln w/Poor-Fair Ixln Por Cht Gry Op Shp Vit Fos (Brach) Chalk Wht Sh Char-Grn-Gry-Red Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Tan-Gry Fxln w/Poor-Fair Ixln Por Grad Ls Crm Poor OOL/OOM Por w/OOL in pl Poor Dissol Poor Leaching Barren Cht Gry Op Shp Vit Chalk Wht Fos (Brach) Sh Char-Gry-Red Soft-Fissil No Odor No Flor No Stn NS

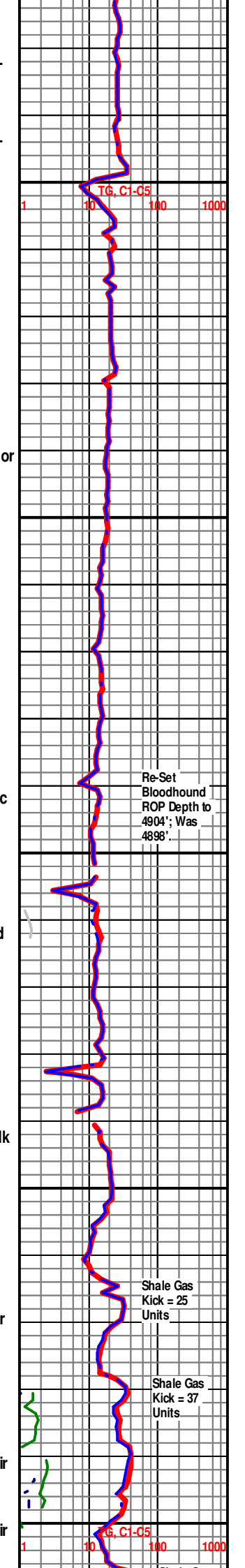
**STARK SH 4966' (- 2505)**

Sh Blk Carb-Char-Gry-Red Soft-Fissil Ls Crm-Tan-Gry Fxln w/Poor-Fair Ixln Por Cht Gry Op Shp Vit Pyr Mass Chalk Wht No Odor No Flor No Stn NS

Ls Crm-Tan-Gry Fxln w/Poor-Fair Ixln Por Cht Gry Op Shp Vit Pyr Mass Chalk Wht Sh Char-Gry-Abd-Tr Blk Carb-Red Soft-Fissil No Odor No Flor No Stn NS

Sh Char-Gry-Abd Blk Carb-Grn Red Soft-Fissil Ls Crm-Tan-Gry Fxln w/Poor-Fair Ixln Por Pyr Mass Chalk Wht No Odor No Flor No Stn NS

Sh Char-Gry-Abd Blk Carb-Grn Red Soft-Fissil Ls Crm-Tan-Gry Fxln w/Poor-Fair Ixln Por Pyr Mass Chalk Wht No Odor No Flor No Stn NS



HUSHPUCKNEY Sh Char-Gry-Abd Blk Carb-Grn Red Soft-Fissil Ls Crm-Tan-Gry FxIn w/Poor-Fair IxIn Por Pyr Mass Chalk Wht No Odor No Flor No Stn NS

Ls Wht-Crm FxIn w/Poor-Fair IxIn Por Grad Ls Wht-Crm Poor OOL/OOM Por w/OOL in pl Poor Dissol Poor Leaching Barren Chalk Wht Sh Char-Gry-Grn-Red Soft-Fissil No Odor No Flor No Stn NS

Sh Char-Gry-Tr Blk Carb Tr Red Soft-Fissil Ls Crm-Tan-Gry FxIn w/Poor-Fair IxIn Por Pyr Mass No Odor No Flor No Stn NS

Ls Crm-Tan-Gry FxIn w/Poor-Fair IxIn Por Cht Wht Op Shp Vit Chalk Wht Inc Sh Char-Gry-Tr Blk Carb-Tr Red Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Tan-Wht FxIn w/Poor-Fair IxIn Por Cht Wht w/OOL Tr Drk Brn in pl Cht Wht-Brn Op Shp Vit Chalk Wht Fos (Fuss) Sh Char-Gry-Tr Blk Carb-Tr Red Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Tan-Wht FxIn w/Poor-Fair IxIn Por Cht Wht-Drk Brn w/OOL in pl Op Shp Vit Chalk Wht Fos (Fuss) Sh Char-Gry Inc Grn-Tr Blk Carb-Tr Red Soft-Fissil No Odor No Flor No Stn NS

**BASE KANSAS CITY 5072' (- 2631)**

Sh Char-Gry-Aqua Blu-Grn w/Pyr IncludSoft-Fissil Ls Crm-Tan-Gry AA FxIn w/Poor-Fair IxIn Por Cht Wht-Drk Brn w/OOL in pl Pyr Mass Sh Char-Gry Inc Grn-Tr Blk Carb-Tr Red Soft-Fissil No Odor No Flor No Stn NS

**MARMATON 5092' (- 2644)**

Ls Crm-Tan-Wht FxIn w/Poor-Fair IxIn Por Cht Wht-Drk Brn w/OOL in pl Op Shp Vit Chalk Wht Fos (Fuss) Sh Blk Carb-Char-Gry Inc Grn-Tr Red Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Tan-Wht-Gry FxIn w/Poor-Fair IxIn Por Cht Gry-Brn Op Shp Vit Chalk Wht Fos (Crin) Sh Char-Gry-Grn-Dec Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Tan-Gry FxIn w/Poor-Fair IxIn Por Cht Gry-Brn Op Shp Vit Chalk Wht Fos (Crin) Abd Pyr Mass Sh Char-Gry-Grn-Dec Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Tan-Gry FxIn w/Poor-Fair IxIn Por Cht Gry-Brn Op Shp Vit Chalk Wht Fos (Crin) Abd Pyr Mass Sh Char-Gry-Grn Soft-Fissil No Odor No Flor No Stn NS

Sh Char-Gry-Grn Soft-Fissil Ls Crm-Tan-Gry FxIn w/Poor-Fair IxIn Por Cht Gry-Brn Op Shp Vit Chalk Wht Fos (Crin) Abd Pyr Mass No Odor No Flor No Stn NS

Ls Crm-Tan-Gry FxIn w/Poor-Fair IxIn Por Cht Gry-Brn Op Shp Vit Chalk Wht Fos (Crin) Abd Pyr Mass Sh Char-Gry-Grn Soft-Fissil No Odor No Flor No Stn NS

Sh Char-Gry-Grn Soft-Fissil Ls Crm-Tan-Gry FxIn w/Poor-Fair IxIn Por Cht Gry-Brn Op Shp Vit Chalk Wht Fos (Crin) Abd Pyr Mass No Odor No Flor No Stn NS

**PAWNEE 5169' (- 2708)**

20" CFS @ 5195' Ls Crm Tan FxIn Poor IxIn Por Fos ? Frac Por Dns Grad Soft Tr Chalk Wht Sh AA Cht Gry-Brn Op Shp Vit AA NS Scat Flor Stn (Lt Gold) Will Cut w/Acid w/ Sli SO No Odor

40" CFS @ 5195' Ls Crm Tan FxIn Poor IxIn Por Fos ? Frac Por Dns Grad Soft Tr Chalk Wht h AA Cht Gry-Brn Op Shp Vit AA Scat Flor Stn (Lt Gold) Will Cut w/Acid w/ Sli SO No Odor SSO

60" CFS @ 5195' Ls Crm Tan FxIn Poor IxIn Por Fos ? Frac Por Dns Grad Soft Tr Chalk Wht h AA Cht Gry-Brn Op Shp Vit AA Scat Flor Stn (Lt Gold) Will Cut w/Acid w/ Sli SO No Odor SSO

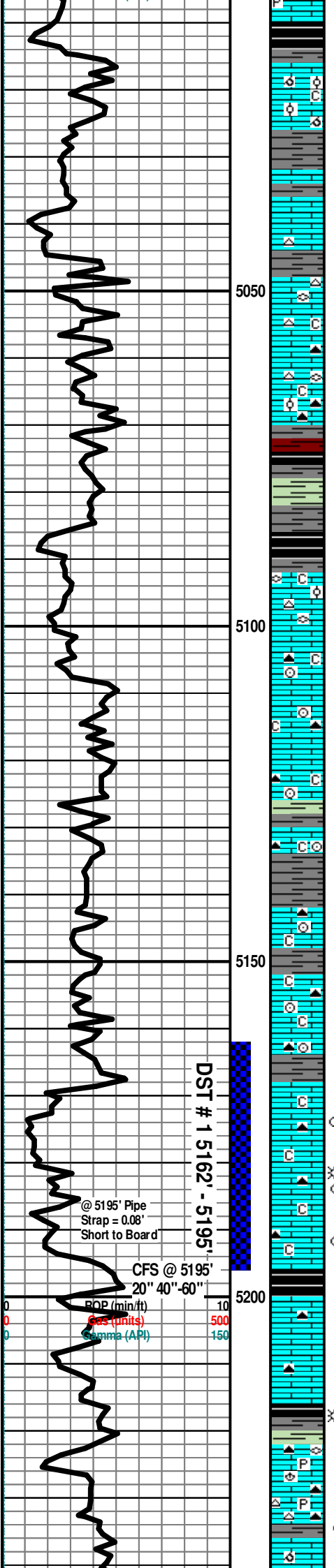
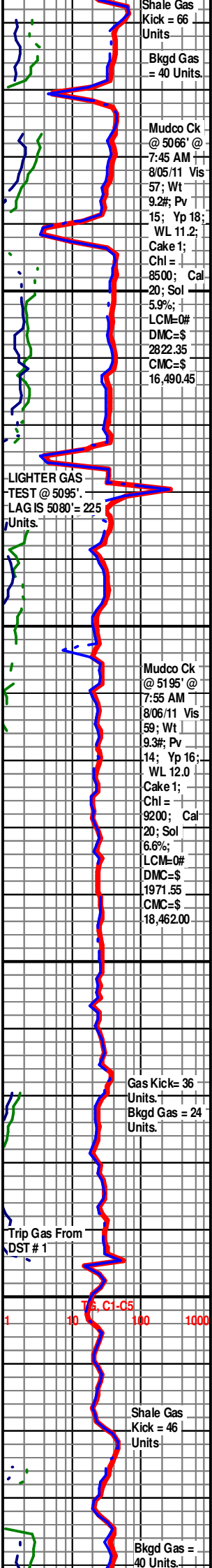
DST # 1 5162'-5195' Times: 5"- 90"- 120"- 180" Blow: IF Weak Surface 2" Blow; FF Weak Building to Strong Blow to B.O.B. @ 102". Recovery: TF= 330': (300' SW (93% SW & 7% M)) + (30' MSW, 9% SW & 91% M)). Pressures: IH 2500#; FH 2427#; IF 45-53#; FF 55-183#; ISIP = 1705#; FSIP 1640#; Temp= 107 Degrees F.; Chl =140,000 Ppm; Mudco Chl. Re-Ck = Chl. ? Ppm.

**CHEROKEE 5216' (-2755)**

Sh Blk Carb w/SSG -Char-Gry-Grn-Aqua Soft-Fissil Ls Crm-Gry FxIn w/Poor-Fair IxIn Por Cht Drk Gry Op Shp Vit Chalk Wht Fos (Brach. Fuss) Pyr Mass No Odor Sli Tr ? Min Flor No Stn SSG

Ls Crm-Gry FxIn w/Poor-Fair IxIn Por Cht Wky-Drk Gry Op w/Tr Pyr Includ Shp Vit Chalk Wht Pyr Mass Sh Blk Carb-Char-Gry-Grn-Aqua Soft-Fissil No Odor Sli Tr ? Min Flor No Stn

Ls Crm-Tan-Wht FxIn w/Poor IxIn Por Grad OOM V Poor InterOOM Por Tr Sli Vug

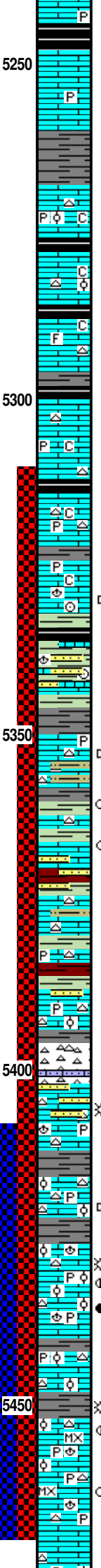
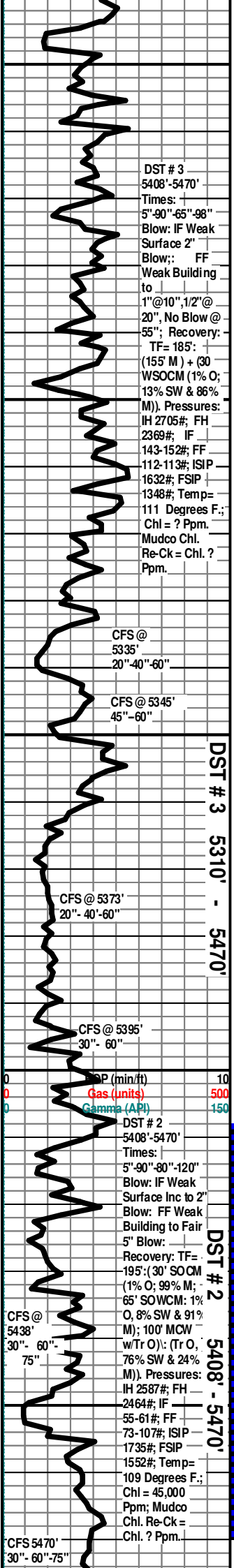


DST # 1 5162' - 5195'

@ 5195' Pipe Strap = 0.08' Short to Board

CFS @ 5195' 20" 40"-60"

ROP (min/ft) 10  
Gas (units) 500  
Sigma (API) 150



Por Cht Wky-Smoky Gry Op Banded Shp Vit Pyr Mass Sh Blk Carb-Char-Grn Soft-Fissil No Odor Sli Tr ? Min Flor No Stn NS

Ls Crm-Tan-Gry Fxln w/Poor lXln Por Pyr Mass Sh Blk Carb-Char-Grn Soft-Fissil No Odor Sli Tr ? Min Flor No Stn NS

Sh Blk Carb-Char-Grn-Red Soft-Fissil Ls Crm-Wht Fxln w/Poor lXln Por Chalk Wht Cht Wht-Tan Op Shp Vit Pyr Mass No Odor Sli Tr ? Min Flor No Stn NS

Ls Crm-Tan-Wht Fxln w/Poor-Fair lXln Por Grad OOL w/OOL in pl V Poor InterOOL Por Poor Dissolution Poor Develop Chalk Wht Cht Wht-Tan Op Shp Vit Sh Char-Gry-Grn-Blk Carb Soft-Fissil No Odor Sli Tr ? Min Flor No Stn NS

Ls Crm-Wht Fxln w/Poor-Fair lXln Por Grad OOL w/OOL in pl V Poor InterOOL Por Poor Dissolution Poor Develop Chalk Wht Cht Wht Fos (Spic inclus) Op Shp Vit Sh Char-Gry-Grn-Blk Carb Soft-Fissil No Odor Sli Tr ? Min Flor No Stn NS

Sh Blk Carb-Char-Grn-Red Soft-Fissil Ls Crm-Tan-Gry Fxln w/Poor lXln Por Chalk WhtTr Cht Tan Op Shp Vit Pyr Mass Tr No Odor No Flor No Stn NS

Ls Crm-Tan-Gry Fxln w/Poor lXln Por Chalk Wht Tr Cht Wht-Tan Op Shp Vit Pyr Mass Sh Blk Carb-Char-Grn-Soft-Fissi Tr No Odor Sli ? Min Flor No Stn NS

**INOLA 5314' (- 2853)**

20" CFS @ 5335' Ls Wht-Crm Fxln Poor lXln Por Cht Wht-Gry Op Shp Vit Pyr Mass Fos (Crin) Chalk Wht Sh Blk Carb-Char-Grn Fissil No Odor Sil Scatt ? Min Flor No Stn NS

40" CFS @ 5335' Ls Wht-Crm Fxln Poor lXln Por Cht Wht-Gry Op Shp Vit Pyr Mass Fos (Crin) Chalk Wht Sh Blk Carb-Char-Grn Fissil No Odor Sil Scatt ? Min Flor No Stn NS

**? Morrow Sh 5334' (- 2873)**

60" CFS @ 5335' Ls Wht-Crm Fxln Poor lXln Por Cht Wht-Gry Op Shp Vit Pyr Mass Fos (Crin, Brach) Chalk Wht Sh Blk Carb-Char-Grn Fissil No Odor Sil Scatt ? Min Flor Tr Dead Stn (Lt Brn Only 2 Pcs) NS

45" CFS @ 5345' Ls Wht-Crm Fxln Poor lXln Por Cht Wht-Gry Op Shp Vit Pyr Mass Tr Qtz SS Wht VFGrn Well-Sort Barren Fos (Brach) Chalk Wht-Tan Sh Blk Carb-Char-Aqua-Grn Fissil ? Faint Odor Sil Scatt ? Min Flor NS

60" CFS @ 5345' Ls Wht-Crm Fxln Poor lXln Por Cht Wht-Gry Op Shp Vit Pyr Mass Tr Qtz SS Wht VFGrn Well-Sort Barren (Few Pcs) Chalk Wht Sh Blk Carb-Char-Aqua-Blu-Grn Fissil No Odor Sil Scatt ? Min Flor NS

75" CFS @ 5345' Ls Wht-Crm Fxln Poor lXln Por Cht Wht-Gry Op Shp Vit Pyr Mass Tr Qtz SS Wht VFGrn Well-Sort Barren (4 Pcs) Friable-Dns CaCo3 Cmt Matrix Chalk Wht Fos (Brach, Crin) Sh Blk Carb-Char-Aqua-Blu-Grn Inc Fissil No Odor Sil Scatt ? Min Flor NS

20" CFS @ 5373' Ls Crm Fxln Poor lXln Por Tr Ls Crm Fxln w/Tr Pin-Pt Poor Por w/SSG & SSO (Lt Brn) Stn SFO w/Broken Under Heat) (Does Not Flor) Sh Vari-colored Char-Olive-Maroon- Aqua-Red Soft-Fissil No Odor Scat ? Min Flor Tr Sil Scatt Brn Stn VSSG/VSSO

40" CFS @ 5373' Sh Vari-Colored AA LS AA No Odor Tr Stn AA Sil Tr ? Min Flor NS

60" CFS @ 5373' Sh Vari-Colored AA LS AA Qtz Ss w/ Blk Inclus Dns FGm Barren Wht Cht Wht Op Shp Vit Sil Tr ? Min Flor No Odor Tr Stn (Ls AA) NS

30" CFS @ 5395' Ls Wht-Crm Fxln Poor lXln Por Cht Wht-Gry Op Shp Vit Pyr Mass Tr Qtz SS Wht FGm Well-Sort Barren (2 Pcs) Friable w/CaCo3 Cmt Matrix Chalk Wht Fos (Brach, Crin) Sh Blk Carb-Char-Aqua-Grn-Olive Fissil No Odor No Flor NS

60" & 75" CFS @ 5395' Ls Wht-Crm Fxln Poor lXln Por Grad Fair OOL Por (1 Pcs) w/OOL in pl (w/ Pyr Inclus) Cht Wht-Tan Op Shp Vit Pyr Mass Sh Char- Tr-Grn Fissil No Odor No Flor NS

**MISSISSIPPIAN 5397' (- 2936)**

Cht Wht Op Vit Shp Ls Crm Fxln Micritic w/ Cht Inclus Qtz Ss Gry F-MGrb Sub Angular Fair Sorting w/SSG (Under Heat) Pyr Mass Sh Char-Gry-Red Dec fissil ? Faint Odor Sli Stn (Lt Brn-No Flor) in Ss Sil ? Min Flor in Cht & Micritic LS VSSGS

Cht Wht Op Vit Shp Ls Crm Fxln Micritic w/ Cht Inclus Grad F-MXln Por w/Pyr Inclus Pyr Also Mass Sh Char-Gry-Red Decfissil Fos (Brach) No Odor No Stn Sil ? Min Flor in Cht & Micritic Ls NS

30" CFS @ 5438' Ls Crm Fxln Micritic w/ Cht Inclus Grad F-MXln Por w/Pyr Inclus Tr Ls Wht OOL w/OOL in pl Poor-Fair InterOOL Por Barren Cht Wht-Tan Op Vit Shp w/ ? Frac Por Tr Pin-Pt Vug Leaching (w/Tr 1 Pc w/Dead Blk Stn) Fos (Brach) Sh Blk Carb-Char-Aqua-Grn-Olive Dec Fissil No Odor ? Sil Scatt? Min Flor VSS

60" CFS @ 5438' Ls Crm Fxln Micritic AA w/ Cht Inclus Grad F-MXln Por w/Pyr Inclus Tr Ls Wht OOL w/OOL in pl Fair-Med InterOOL Por w/Scat Flor Tr Stn (Lt Brn) Poor to Fair Dissolution Cht Wht-Tan Op Vit Shp Fos (Brach) Sh Blk Carb-Char-Aqua-Grn-Olive Dec Fissil No Odor ? Sil Scatt? Min Flor SSG/SSO

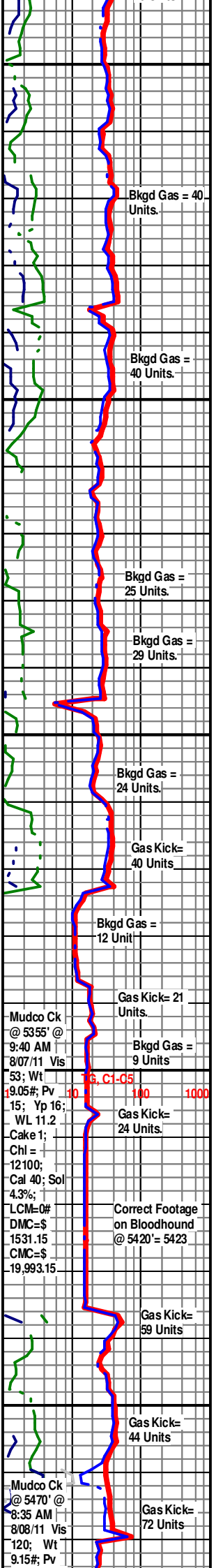
75" CFS @ 5438' Ls Wht OOL w/OOL in pl Fair-Med InterOOL Por w/Scat Flor Tr Stn (Lt Brn) Poor to Fair Dissolution w/SG Tr/FSO Stn Aound OOL Poor-fair Dissolution Ft Odor Fair-Med SG/SO w/SFO in Tray (Both Gas & Oil Flor) Cht AA Fos AA Sh AA F-M SG/SO

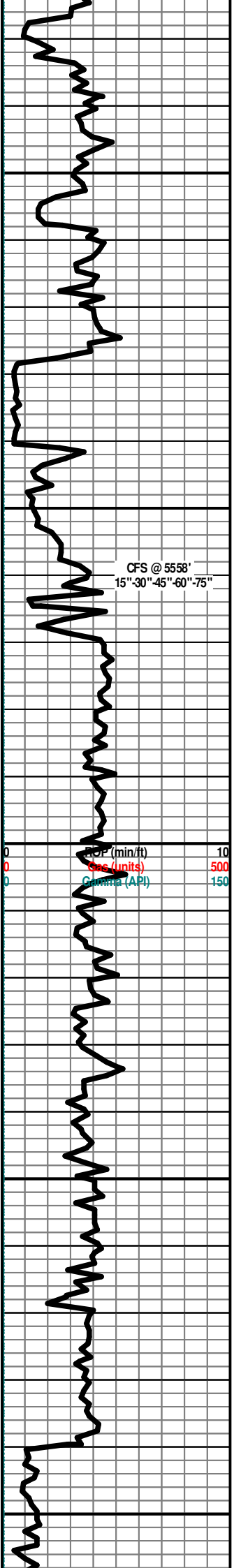
Ls Wht Fxln-MXln Por w/Pyr Inclus w/Tr Med Vug Leaching Por w/SG w/Sli Stn Grad OOL Por (Small-Med Ooids) w/ Scatt Stn w/SG (Under Heat) Faint Odor Sil Scatt Flor (Lt Grn) Sh AA SSG

30" CFS @ 5470' Ls Wht Fxln-MXln Por w/Pyr Inclus w/Tr Fair Vug Leaching Por Dec w/SSG w/Sli Stn Grad OOL Por (Small-Med Ooids) w/Sli Scatt Stn w/SSG (Under Heat) (Only Few Pcs) Grad Fxln Micrite Decreasing Show ? Faint Odor Tr, Sil Scatt Flor (Lt Grn) Cht Wht Op Shp Vit Fos (Brach) Sh AA Dec SSG/SSO

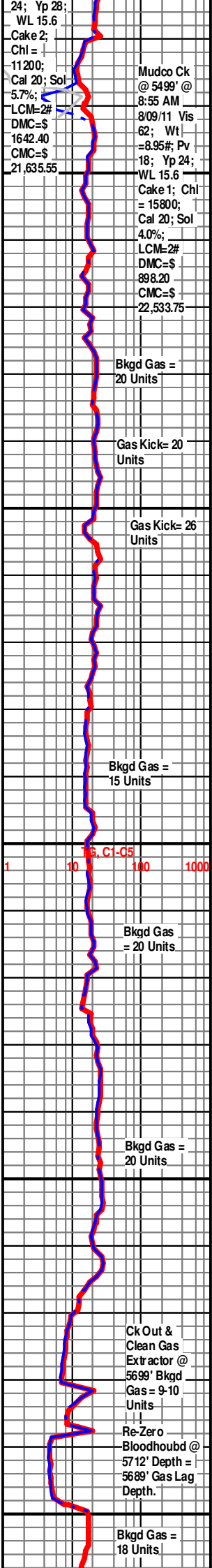
60" & 75" CFS @ 5438' Ls Wht Fxln Micritic Por w/Pyr Inclus w/Tr Poor Vug Leaching Por Dec w/SSG w/Sli Stn Grad OOL Por ( Few Pcs w/ Small-Ooids) w/ Scatt Stn w/SG (Under Heat) (Only Few Pcs) Grad Fxln Micrite Decreasing Show ? Dec Faint Odor Tr, Sil Scatt Flor (Lt Grn) Tr Stn Dec AA Fos (Brach) VSSO/ ? SG

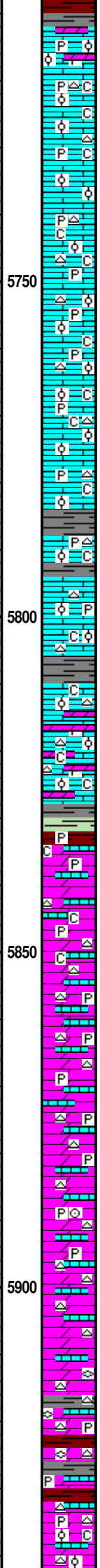
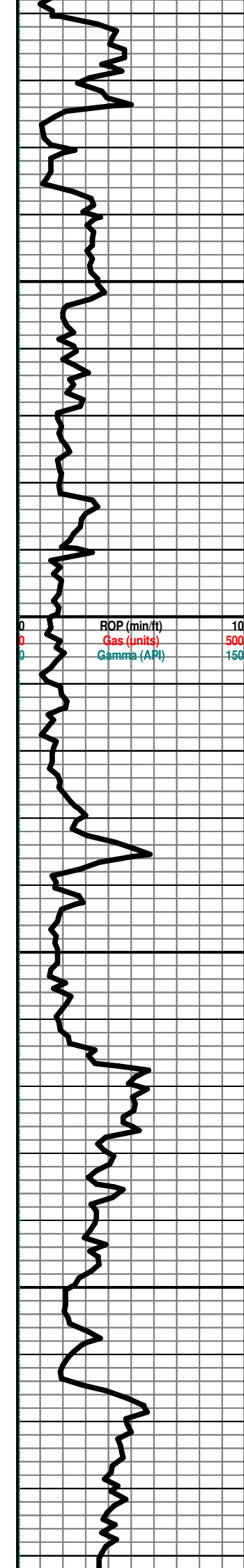
Ls Wht Fxln Micritic Por w/Pyr Inclus Poor lXln Por Tr OOL Por Poor interOOL Por Poor Develop





Poor Dis (Tr 1 Pc) Poor Vug Por W tr Dead Stn (Drk Blk) Cht Wht-Gry Op Shp Vit Abd Pyr Mas Abd Sh  
 Sh Char-Gry Grn Soft-Fissil No Stn ? Faint Odor Tr, Poor ? Min Flor (Few Pcs/ Pale Lt Grn) NS  
 Ls Wht Fxln Micritic Por w/Pyr Includ Poor Ixln Por Cht Wht-Gry Op Shp Vit Abd Pyr Mas Abd Sh  
 Char-Gry Grn Soft-Fissil No Stn No Odor Tr, Sil Scatt ? Min Flor (Few Pcs/ Pale Lt Grn) NS  
 Ls Wht Fxln Micritic Por w/Pyr Includ Poor Ixln Por Cht Wht-Gry Op Shp Vit Abd Pyr Mas Abd Sh  
 Char-Gry Grn Soft-Fissil No Stn No Odor Tr, Sil Scatt ? Min Flor (Few Pcs/ Pale Lt Grn) NS  
 15" CFS @ 5558' Ls Crm Wht Fxln Micrite Grad OOL Por Poor InterOOL Por  
 Poor Develop Poor Dis Cht Wht Op Shp Vit Pyr Mass Sh Char- Gry Soft-Fissil No  
 Odor Tr Stn (Dead Blk 2 Pcs) ? Sli Min Flor NS  
 30" CFS @ 5558' Ls Wht-Crm OOL Por w/Poor InterOOL Por Poor Develop Poor  
 Dis Grad Ls Crm Wht Fxln Micrite Cht Wht Op Shp Vit AA Pyr Mass Sh Char-  
 Gry Soft-Fissil No Odor No Stn ? Sli Min Flor (Few Pcs Lt Grn) NS  
 45" CFS @ 5558' Ls Wht-Crm OOL Por w/Poor InterOOL Por Abd Poor Develop  
 Poor Dis Tr Lg Vug Leaching w/ Tr Drk Blk STn (Dead Stn) Grad Ls Crm Wht Fxln  
 Micrite Grad Cht Wht Op Shp Vit AA Pyr Mass Sh Char- Gry Soft-Fissil No Odor  
 No Stn ? Sli Min Flor (Few Pcs Lt Grn) NS  
 60" CFS @ 5558' Ls/Dolo Wht-Crm OOL Por w/Good InterOOL Por Abd  
 Med-Good Develop Med-Good Dis Grad Tr Ls Crm Wht Fxln Micrite AA Cht Wht  
 Op Shp Vit AA Pyr Mass (Fos (Gastro w/ Pyr) Sh Char- Gry Soft-Fissil No Odor  
 No Stn ? Sli Min Flor (Few Pcs Lt Grn) NS  
 75" CFS @ 5558' Ls/Dolo Wht-Crm OOL Por w/Good InterOOL Por Abd Poor  
 Develop Poor Dis Tr Lg Vug Leaching w/ Tr Drk Blk STn (Dead Stn) Grad Ls Crm  
 Wht Fxln Micrite Grad Cht Wht Op Shp Vit AA Pyr Mass Sh Char- Gry Soft-Fissil  
 No Odor No Stn ? Sli Min Flor (Few Pcs Lt Grn) NS  
 Dolo/Ls Wht-Crm-Tan Fxln Micrite Poor Ixln Por Grad OOL Por AA w/InterOOL  
 Por Dec Poor Develop Poor Dissolution Cht Wht Op Shp Vit AA Sh  
 Char-Gry-Grn Soft-Fissil No Odor No Stn ? Sli Min Flor (Few Pcs-Lt Grn) NS  
 Dolo/Ls Wht-Crm-Tan Fxln Micrite Poor Ixln Por Grad OOL Fair-Good InterOOL  
 Porw/ OOL in pFair good Develop Fair-Good Dissolution Cht Wht Op Shp Vit AA  
 Sh Char-Gry-Grn Soft-Fissil No Odor No Stn ? Sli Min Flor (Few Pcs-Lt Grn) NS  
 Dolo/Ls Wht-Crm-Tan Fxln Micrite Poor Ixln Por Grad OOL Fair - InterOOL Por  
 AA Dec Poor Develop Poor Dissolution Cht Wht Op Shp Vit AA Fos (Crin) Sh  
 Char-Gry-Grn Soft-Fissil No Odor No Stn ? Sli Min Flor (Few Pcs 5% in Tray-Lt  
 Grn) NS  
 Dolo/Ls Wht-Crm-Tan Fxln Micrite Poor Ixln Por Grad OOL Dec Fair- InterOOL  
 Por AA Dec Poor Develop Poor Dissolution Cht Wht-Gry Op Shp Vit AA Sh  
 Char-Gry-Grn Soft-Fissil No Odor No Stn ? Sli Min Flor (10% in Tray-Lt Grn) NS  
 Ls/Dolo Crm-Tan Fxln Micrite AA Poor Ixln Por Tr/OOL Por AA Dec w/Fair-Poor  
 InterOOL "Sandy" VF Ooid Por Poor Develop Poor Dissolution Grad Chalk Wht  
 Abd Tr/Cht Wht-Gry Op Shp Vit Dec Pyr Mass Sh Grn-Char-Gry Soft-Fissil No  
 Odor No Stn ? Sli Min Flor (Few Pcs-Lt Grn) NS  
 Ls/ Dolo Crm-Gry Fxln Micrite Poor Ixln Por Grad OOL Poor- InterOOL Por Poor  
 Develop Poor Dissolution Cht Wht-Gry Op Shp Vit Pyr Mass Sh Char-Gry-Grn  
 Soft-Fissil No Odor No Stn ? Sli Min Flor (15% in Tray-Lt Grn) NS  
 Ls/ Dolo Crm-Gry Fxln Micrite Poor Ixln Por Grad OOL Poor- InterOOL Por Poor  
 Develop Poor Dissolution Cht Wht-Gry Op Shp Vit Pyr Mass Sh Char-Gry-Grn  
 Soft-Fissil No Odor No Stn ? Sli Min Flor (5% in Tray-Lt Grn) NS  
 Ls/ Dolo Crm-Gry Fxln Micrite Poor Ixln Por Grad OOL Poor-InterOOL Por Poor  
 Develop Poor Dissolution Cht Wht-Gry Op Shp Vit Pyr Mass Sh  
 Char-Gry-Grn-Olive Soft-Fissil No Odor No Stn ? Sli Min Flor (10% in Tray-Lt  
 Grn) NS  
 Ls/ Dolo Crm-Gry Fxln Micrite Poor Ixln Por Grad OOL Poor-InterOOL Por Poor  
 Develop Poor Dissolution Cht Wht-Gry Op Shp Vit Pyr Mass Sh  
 Char-Gry-Grn-Olive Soft-Fissil No Odor No Stn ? Sli Min Flor (10% in Tray-Lt  
 Grn) NS  
 Sh Grn Abd-Gry- Char-Blk Carb-Olive Soft-Fissil Ls/ Dolo Wht-Crm Fxln Micrite  
 Poor Ixln Por Grad OOL Poor-InterOOL Por Poor Develop Poor Dissolution  
 Chalk Wht Cht Wht-Gry-Transp-Op Shp Vit Tr Pyr Mass Xls Sh  
 Char-Gry-Grn-Olive Soft-Fissi No Odor No Stn ? Sli Min Flor (5% in Tray-Lt Grn)  
 Ls/ Dolo Crm-Gry Fxln Micrite Poor Ixln Por Grad OOL Por w/Poor-InterOOL Por  
 Poor Develop Poor Dissolution Cht Wht-Gry Op Shp Vit Pyr Mass Sh  
 Char-Gry-Grn-Olive Soft-Fissil No Odor No Stn ? Sli Min Flor (10% in Tray-Lt  
 Grn) NS  
 Ls/ Dolo Wht-Crm-Gry Fxln Micrite w/Poor Ixln Por Grad OOL Por  
 w/Good-InterOOL Por Med-Good Develop Med-Good Dissolution ? Frac Por Cht  
 Wht-Gry Op Shp Vit Pyr Mass Sh Char-Gry-Grn-Olive Soft-Fissil No Odor No  
 Stn ? Sli Min Flor (5% in Tray-Lt Grn) NS  
 Ls/ Dolo Wht-Crm-Gry OOL Por w/Med-Good-InterOOL Por Med-Good Develop  
 Med-Good Dissolution ? Frac Por Grad Ls Wht-Crm Fxln Micrite w/Poor Ixln Por  
 Cht Wht-Gry Op Shp Vit Pyr Mass Chalk Wht Sh Char-Gry-Grn-Drk Red-Olive





Soft-Fissil No Odor No Stn ? Sli Min Flor (5% in Tray-Lt Grn) NS

Ls/ Dolo Wht-Crm-Gry OOLTr/Por w/Med-Good-InterOOL Por Med-Good Develop Med-Good Disolution Grad Ls Wht-Crm Fxn Micrite w/Poor IxIn Por Cht Wht-Gry Op Shp Vit Pyr Mass Chalk Wht Sh Char-Gry-Grn-Drk Red-Olive Soft-Fissil No Odor No Stn ? Sli Min Flor (5% in Tray-Lt Grn) NS

Ls/ Dolo Grad Ls Wht-Crm Fxn Micrite w/Poor IxIn Por Wht-Crm-Gry Grad OOL w/Tr Dec Por w/Med-InterOOL Por Med Develop Med Disolution Cht Wht-Gry Op Shp Vit Pyr Mass Chalk Wht Sh Char-Gry-Grn-Drk Red-Olive Soft-Fissil No Odor No Stn ? Sli Min Flor (5% in Tray-Lt Grn) NS

Ls/ Dolo Wht-Crm-Gry OOL Por w/Med-Good-InterOOL Por Med-Good Develop Med-Good Disolution ? Frac Por Grad Ls Wht-Crm Fxn Micrite w/Poor IxIn Por Cht Wht-Gry Op Shp Vit Pyr Mass Chalk Wht Sh Char-Gry-Grn-Drk Red-Olive Soft-Fissil No Odor No Stn ? Sli Min Flor (5% in Tray-Lt Grn) NS

Ls/ Dolo Wht-Crm-Gry OOL Por w/Med-Good-InterOOL Por Med-Good Develop Med-Good Disolution ? Frac Por Grad Ls Wht-Crm Fxn Micrite w/Poor IxIn Por Cht Wht-Gry Op Shp Vit Pyr Mass Chalk Wht Sh Char-Gry-Grn-Drk Red-Olive Soft-Fissil No Odor No Stn ? Sli Min Flor (5% in Tray-Lt Grn) NS

Sh Char-Gry-Grn-Drk Red-Olive Soft-Fissil V Abd Ls/ Dolo Wht-Crm-Gry Tr/OOL Por w/Med InterOOL Por Med Develop Med Disolution Por Grad Ls Wht-Crm Fxn Micrite w/Poor IxIn Por Cht Wht-Gry Op Shp Vit Pyr Mass Chalk Wht No Odor No Stn ? Sli Min Flor (5% in Tray-Lt Grn) NS

Sh Char-Gry-Grn-Drk Red-Abd Soft-Fissil Ls Wht-Crm Fxn Micrite w/Poor IxIn Por Grad Ls/ Dolo Wht-Crm-Gry Tr/OOL Por w/Med InterOOL Por Med Develop Med Disolution Por Cht Wht-Gry Op Shp Vit Pyr Mass Chalk Wht No Odor No Stn ? Sli Min Flor (5% in Tray-Lt Grn) NS

Sh Char-Gry-Grn-Drk Red Soft-Fissil Ls Wht-Crm Fxn Micrite w/Pyr Inclus Poor IxIn Por Grad Ls/ Dolo Wht-Crm-Gry OOL Por w/Fair InterOOL Por Fair Develop Fair Disolution Por Cht Wht-Gry Op Shp Vit Pyr Mass Chalk Wht No Odor No Stn ? Sli Min Flor (5% in Tray-Lt Grn) NS

Ls Wht-Crm Fxn Micrite w/Pyr Inclus Poor IxIn Por Grad Tr Ls/ Dolo Wht-Crm-Gry Fxn Por w/Fair IxIn Por Wht-Gry Op Shp Vit Pyr Mass Chalk Wht Sh Char-Gry-Grn-Drk Red-Olive Soft-Fissil No Odor No Stn ? Sli Min Flor (5% in Tray-Lt Grn) NS

**? COWLEY FACIES 5834' (- 3373)**

Dolo Wht-Crm-Gry Sucrosic Por w/Fair IxIn Por Wht-Gry Op Shp Vit Pyr Mass Chalk Wht Sh Char-Gry-Grn-Lt/Drk Red Soft-Fissil Tr Olive No Odor No Stn ? Sli Min Flor (5% in Tray-Lt Grn) NS

Dolo Wht-Crm-Gry Sucrosic Por IxIn Por Grad LS Wht-Crm-Gry w/Grn (? Glacu) Inclus Op Shp Vit Pyr Mass Chalk Wht Sh Char-Gry-Grn-Drk Red Soft-Fissil No Odor No Stn ? Sli Min Flor (5% in Tray-Lt Grn) NS

Dolo/Ls Wht-Crm-GrySucrosic Por IxIn Por Grad LS Gry w/Grn (? Glacu) Inclus AA Cht Wht Op Shp Vit Pyr Mass Chalk Wht Sh Char-Gry-Grn-Drk Red Soft-Fissil No Odor No Stn ? Sli Min Flor (5% in Tray-Lt Grn) NS

Dolo/Ls Gry-Crm-Wht Fxn Sucrosic Por Poor IxIn Por Tr LS AA Crm-Gry w/Grn (? Glacu) Inclus Cht Wht Op Shp Vit Tr/Pyr Mass Fos (Crin) Sh Char-Gry-Grn-Drk Red Soft-Fissil No Odor No Stn ? Sli Min Flor (< 5% in Tray-Lt Grn) NS

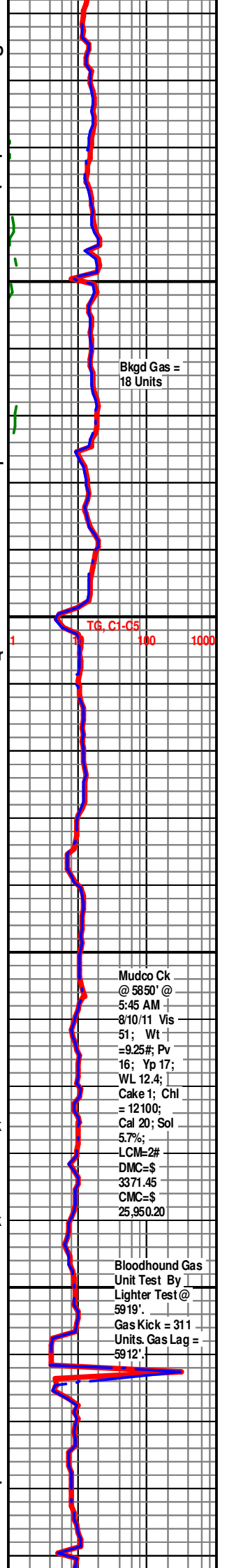
Dolo/Ls Gry-Crm-Wht Fxn Sucrosic Por Poor IxIn Por Tr LS AA Crm-Gry w/Grn (? Glacu) Inclus Cht Wht Op Shp Vit Tr/Pyr Mass Fos (Crin) Sh Char-Gry-Grn-Drk Red Soft-Fissil No Odor No Stn ? Sli Min Flor (< 5% in Tray-Lt Grn) NS

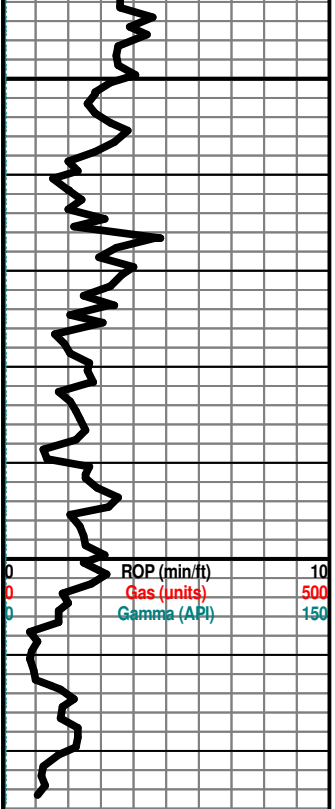
Dolo/Ls Gry-Crm-Wht Fxn Sucrosic Por Poor IxIn Por Tr LS Crm-Gry OOL Por Poor InterOOL Por Poor Develop Pyr Mass Abs Cht Wht Op Shp Vit Fos (Fuss) Sh Char-Gry-Grn-Drk Red Soft-Fissil No Odor No Stn ? Sli Min Flor (< 5% in Tray-Lt Grn) NS

Dolo/Ls Gry-Crm-Wht Fxn Sucrosic Por Poor IxIn Por Tr LS Crm-Gry Dec Fxn Micrite Pyr Mass Abs Cht Wht Op Shp Vit Fos (Fuss) Sh Char-Gry Soft-Fissil No Odor No Stn ? Sli Min Flor (< 5% in Tray-Lt Grn) NS

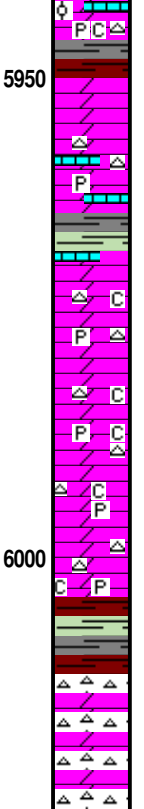
Sh Char-Gry-Red Soft-Fissil Dol Gry Fxn Micrite Poor IxIn Por Grad Ls/ Dolo Crm-Wht Fxn Por w/Poor IxIn Por Cht Wht Op Shp Vit Pyr Mass Tr Chalk Wht Tr No Odor No Stn No Flor NS

Sh Char-Gry-Red-Drk Red Soft-Fissil Dol Gry Fxn Micrite AA Poor Fxn IxIn Por Grad Ls Crm-Wht Fxn Por w/Poor IxIn Por Tr/OOL Por Poor Pot AA Cht Wht Op Shp Vit Pyr Mass Chalk Wht Sh Char-Gry-Grn-Drk Red-Olive Soft-Fissil No Odor No Stn ? Sli Min Flor (< 5% in Tray-Lt Grn) NS





R.T.D. = 6025' (- 3564)  
 L.T.D. = 6027' (- 3566)



Shp Vit Pyr Mass Tr Chalk Wht Tr No Odor No Stn No Flor NS

5950  
 Sh Char-Gry-Red-Drk Red Soft-Fissil Dol Gry Fxln Micrite Grad Fxln Poor-Fair Fxln Por w/Poor lxln Por Cht Wht Op Shp Vit Pyr Mass Tr Chalk Wht Tr No Odor No Stn No Flor NS

P  
 Sh Char-Gry-Grn-Red-Drk Red Soft-Fissil Dol Gry Fxln Micrite Grad Fxln Poor-Fair Fxln Surosic Por Tr Ls Wht OOL Por w/ /Tr Vug Leaching Cht Wht Op Shp Vit Pyr Mass Tr Chalk Wht Tr No Odor No Stn No Flor NS

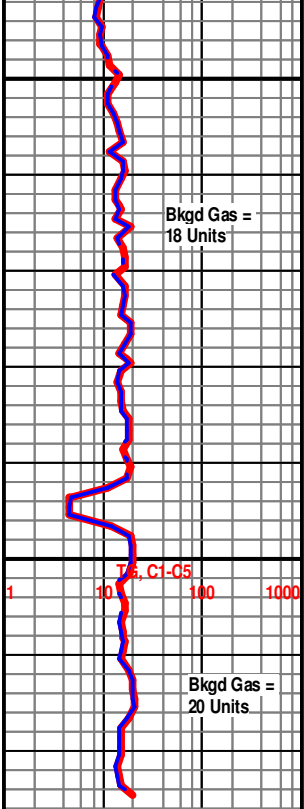
P  
 Dol Gry Fxln Micrite Grad Fxln Poor-Fair Fxln Surosic Por Sh Char-Gry-Grn-Red-Drk Red Soft-Fissil Cht Wht Op Shp Vit Pyr Mass Tr Ls Crm-Wht Fxln Micrite Chalk Wht Tr No Odor No Stn No Flor NS

P  
 Dol Gry Fxln Micrite Grad Fxln Poor-Fair Mxln Por w/ Tr Lg Vug Xln Por Sh Char-Gry-Grn-Red-Drk Red Soft-Fissil Cht Wht Op Shp Vit Pyr Mass Tr Ls Crm-Wht Fxln Micrite Chalk Wht Tr No Odor No Stn No Flor NS

30" CFS @ 6015' Sh Char-Gry-Grn-Red-Drk Red Abd Soft-Fissil Dol Gry Fxln Micrite Grad Fxln Poor-Fair Fxln Surosic Por Tr Ls Wht OOL Por w/ /Tr Vug Leaching Cht Wht Op Shp Vit Pyr Mass Tr Chalk Wht Tr No Odor No Stn No Flor NS

60" CFS @ 6015' Dol Gry Fxln Micrite Grad Fxln Poor-Fair Mxln Por Tr Cht Wht Op Shp Vit Inc Sh Char-Gry-Grn-Red-Drk Red Soft-Fissil Pyr Mass No Odor No Stn No Flor NS

75" CFS @ 6015' Dol Gry Fxln Micrite Grad Fxln Poor-Fair Mxln Por Cht Wht Op Shp Vit V Abd Sh Char-Gry-Grn-Red-Drk Red Soft-Fissil Pyr Mass No Odor No Stn No Flor NS



6000  
 6050  
 6100  
 6150

0 ROP (min/ft) 10  
0 Gas (units) 500  
0 Gamma (API) 150

6200

6250

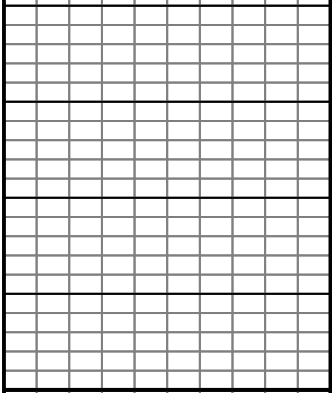
6300

6350

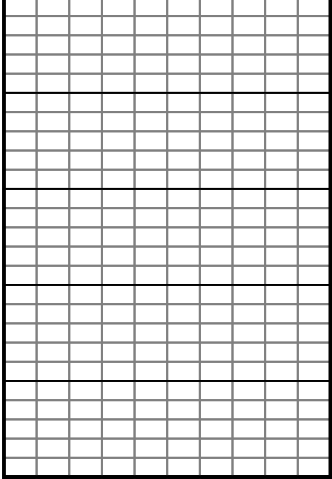
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TG, C1-C5  
1 10 100 1000

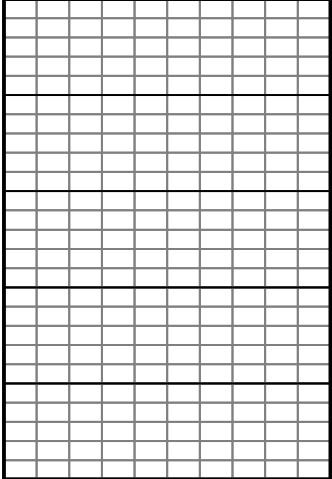
TG, C1-C5  
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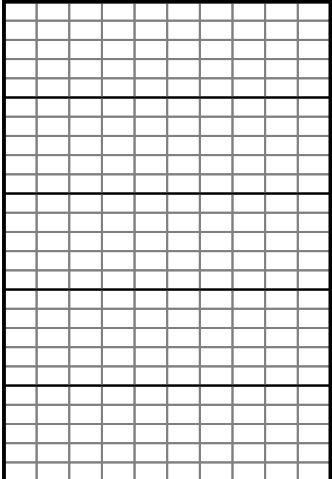
6450



6500



6550



6600

