



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

Well Name: PATTERSON-O'BRATE "A" # 2-17
Location: SE - NW of Sec. 17 - T. 30 S. - R. 30 W.
License Number: A.P.I. # 15 - 119 - 21,364 - 00 - 00
Spud Date: 04/19/2014
Surface Coordinates: SPOT: 1980' FNL & 1980' FWL

Region: MEADE CO., KS.
Drilling Completed: 04/28/2014

**Bottom Hole
Coordinates:**
Ground Elevation (ft): 2814' **K.B. Elevation (ft):** 2825'
Logged Interval (ft): SURFACE To: 5700' **Total Depth (ft):** 5700
Formation: MISSISSIPPIAN "ST. LOUIS"
Type of Drilling Fluid: CHEMICAL/POLYMER/GEL. & MUD DISPLACEMENT @ 2923'.
Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: McCOY PETROLEUM CORPORATION KCC LIC. NO. # 5003
Address: 8080 E. CENTRAL, STE. 300
WICHITA, KANSAS 67206-2366

GEOLOGIST

Name: DAVID P. WILLIAMS, P.G.
Company: DW ENERGY, LLC
Address: 312 N. BROADVIEW STREET
WICHITA, KANSAS 67208

CASING & DEVIATION

Surface Casing: Spud at 9:15 pm on 04/19/14. Drilled 12-1/4" to 1832'. Ran 44 joints of new 24#, 8-5/8" casing. Tallied 1813' Set at 1827' KB. Welded straps on shoe, bottom 3 joints and top 2 joints. Tacked collars on the remainder. Centralizers (4) on joints 1-3-5-27. Float insert in top of 1st joint. Cemented with 650 sks Class A; 3% CC, 6% Gel & 1/4# FS and 3#/sk Gilsonite. Tailed with 200 sks Class A; 3% CC; 1/4# FS. Cement did circulate. Plug down at 12:15 pm on 04/21/14. Basic Energy ticket #52444. Basket at 712' KB.

Deviation Survey's Taken: @ 1832'=1 degree; @ 4585'=1 degree; @ 5346' = 3/4 degree; @ 5700' = 3/4 degree.

DSTs

~~DST # 1~~ Interval: 4550'-4585'. Times: 5"-60"-90"-120";

Blow: IF= BOB/15 Sec.. No Blow Back During ISIP. FF= Strong Blow BOB/lmed & GTS @ 2" (See Gauge Report Below). 1/2" Blow Back During FSIP.

Recovery: 4087' GIP; 464' TF: 247' MCW (20% M & 80% W) & 217' GCMW (10% G, 36% W & 60% M).

Pressures: IH=2365#; FH=2115#; IF=117-93#; FF=95-202#; ISIP =1393#; FSIP=1368#; Temp.=115 degrees F.
 FF GAS GAUGE @ 10"=214.6 Mcf; @ 20"=208.7 Mcf; @ 30"= 197.5 Mcf; @ 40"=186.1 Mcf; @ 50"=119.0 Mcf; @ 60"=117.7 Mcf; @ 70"=53.9 Mcf; @ 80"=58.3 Mcf; @ 90"=58.3 Mcf.

~~DST # 2~~ Interval: 5283'-5346'. Times: 5"-60"-90"-120";

Blow: IF= Weak Surface/1/2" . No Blow Back During ISIP. FF= Weak/2". No Blow Back During FSIP.

Recovery: 20' SOCM (2% O, 98% M).

Pressures: IH=3177#; FH=2710#; IF=27-31#; FF=28-36#; ISIP= 246#; FSIP=124#; Temp.=125 degrees F.


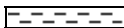

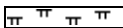
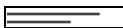
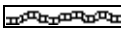




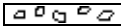


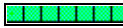




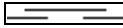




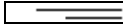
Comments

After review of all geologic samples as examined, combined with the fluid and pressures results from all drill stem tests taken and analysis from the electric logs run, it was determined by all parties that production casing should be run in order to further evaluate this well.






















































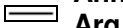






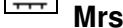













Respectfully submitted,

David P. Williams, P. G # 88 Kansas

ROCK TYPES

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

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  Fuss  Gastro  Oolite  Oomold  Ostra  Pelec	 Pellet  Pisolite  Plant  Strom STRINGER  Anhy  Arg  Bent  Coal  Dol  Grysh  Gyp  Ls  Mrst  Sltstrg  Ssstrg	TEXTURE  Boundst  Chalky  Cryxln  Earthy  Finexln  Grainst  Lithogr  Microxln  Mudst  Packst  Wackest
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OTHER SYMBOLS

- POROSITY**
- [E] Earthy
 - [B] Fenest
 - [F] Fracture
 - [X] Inter
 - [Z] Moldic
 - [O] Organic
 - [P] Pinpoint

[V] Vuggy

- SORTING**
- [W] Well
 - [M] Moderate
 - [P] Poor

- ROUNDING**
- [R] Rounded
 - [r] Subrnd
 - [a] Subang
 - [A] Angular

OIL SHOW

- [X] Gas show

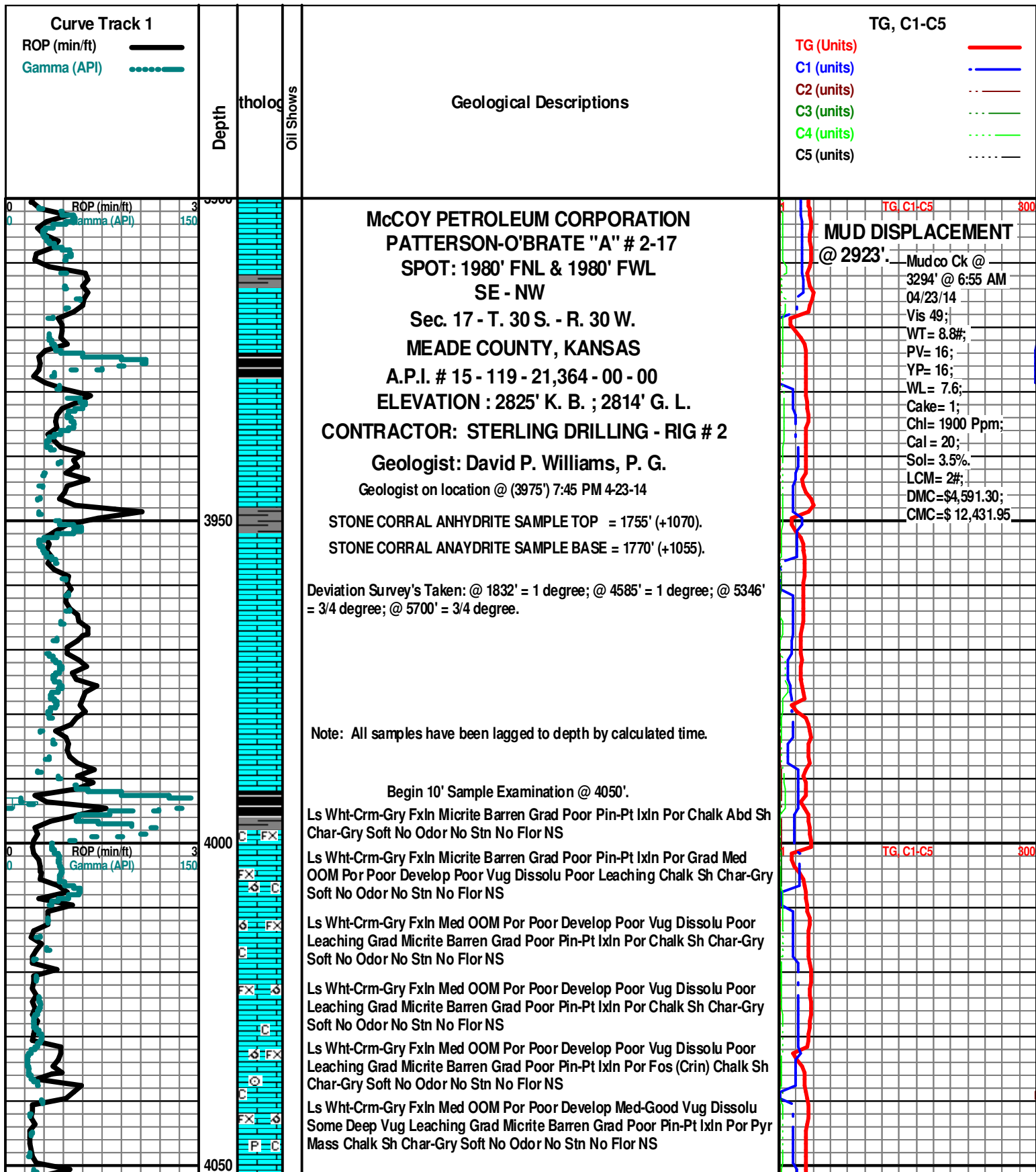
- [●] Even
- [○] Spotted
- [○] Ques
- [□] Dead

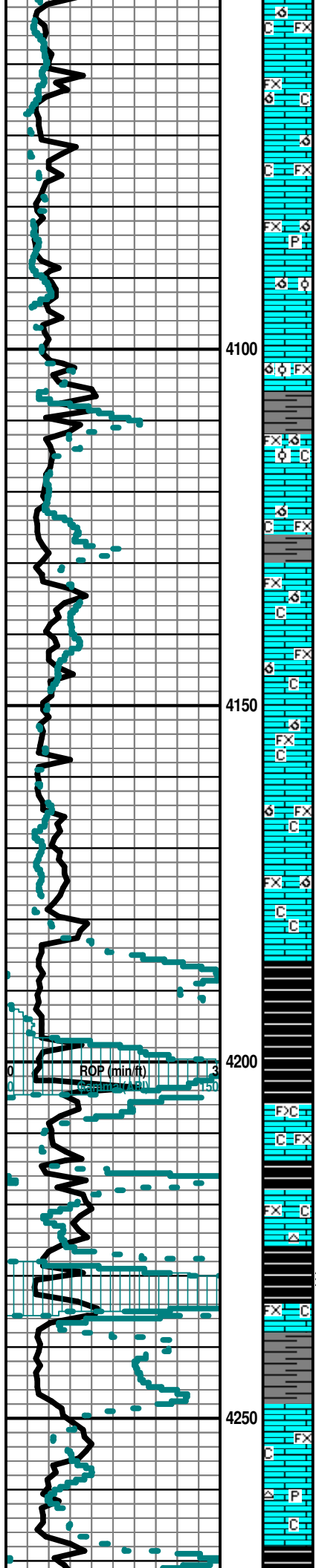
INTERVAL

- [■] Core
- [■] Dst

[■] Dst_alt

- EVENT**
- [▶] Rft
 - [▶] Sidewall





Ls Wht-Crm-Gry Fxln Med OOM Por Poor Develop Med-Good Vug Dissolu
 Some Deep Vug Leaching Grad Micrite Barren Grad Poor Pin-Pt Ixln Por
 Chalk Sh Char-Gry Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Gry Fxln Med OOM Por Poor Develop Med-Good Vug Dissolu
 Some Deep Vug Leaching Grad Micrite Barren Grad Poor Pin-Pt Ixln Por
 Chalk Sh Char-Gry Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Gry Fxln Med OOM Por Poor Develop Med-Good Vug Dissolu
 Some Deep Vug Leaching Grad Micrite Barren Grad Poor Pin-Pt Ixln Por
 Chalk Sh Char-Gry Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Gry Fxln Med OOM Por Poor Develop Med-Good Vug Dissolu
 Some Deep Vug Leaching Grad Micrite Barren Grad Poor Pin-Pt Ixln Por Pyr
 Mass Chalk Sh Char-Gry Soft No Odor No Stn No Flor NS

Ls Gry-Wht-Crm-Fxln Micrite Barren Grad Poor Pin-Pt Ixln Por Grad Fair
 OOM Por (w/Small OOids in pl) Poor Develop Poor Dissolu Poor Leaching
 Chalk Sh Char-Gry Soft No Odor No Stn No Flor NS

Ls Gry-Wht-Crm-Fxln Micrite Barren Grad Poor Pin-Pt Ixln Por Grad Fair
 OOM Por (w/Small OOids in pl) Poor Develop Poor Dissolu Poor Leaching
 Chalk Sh Char-Gry Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Gry Fxln Micrite Barren Grad Poor Pin-Pt Ixln Por Grad Fair
 OOM Por (w/Small OOids in pl) Poor Develop Poor Dissolu Poor Leaching
 Chalk Sh Char-Gry Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Gry Fxln Micrite Barren Grad Poor Pin-Pt Ixln Por Grad Tr Poor
 OOM Por AA Dec Chalk Abd Sh Char-Gry-Drk Gry Soft No Odor No Stn No
 Flor NS

Ls Wht-Crm-Gry Fxln Micrite Barren Grad Poor Pin-Pt Ixln Por Grad Tr Poor
 OOM Por AA Dec Chalk Abd Sh Char-Gry-Drk Gry Soft No Odor No Stn No
 Flor NS

Ls Wht-Crm-Gry Fxln Micrite Barren Grad Poor Pin-Pt Ixln Por Grad Tr Poor
 OOM Por AA Dec Chalk Abd Sh Char-Gry-Drk Gry Soft No Odor No Stn No
 Flor NS

Ls Wht-Crm-Gry Fxln Micrite Barren Grad Poor Pin-Pt Ixln Por Grad Tr Poor
 OOM Por AA Dec Chalk Abd Sh Char-Gry-Drk Gry Soft No Odor No Stn No
 Flor NS

Ls Wht-Crm-Gry Fxln Micrite Barren Grad Poor Pin-Pt Ixln Por Grad Tr Poor
 OOM Por AA Dec Chalk Abd Sh Char-Gry-Drk Gry Soft No Odor No Stn No
 Flor NS

Sh Blk Carb-Char-Gry-Maroon Fissil Ls Wht-Crm-Gry Fxln Dns Micrite Grad
 Pin-Pt Ixln Por Chalk No Odor No Stn No Flor NS

Sh Blk Carb-Char-Gry-Maroon Fissil Ls Wht-Crm-Gry Fxln Dns Micrite Grad
 Pin-Pt Ixln Por Chalk No Odor No Stn No Flor NS

Ls Wht-Crm-Gry Fxln Dns Micrite Grad Pin-Pt Ixln Por Chalk Sh Blk Carb
 Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Gry Fxln Dns Micrite Grad Pin-Pt Ixln Por Chalk Sh Blk Carb
 Fissil No Odor No Stn No Flor NS

HEEBNER 4226' (- 1401)

Sh Blk Carb-Char-Gry (w/Pyr Inclus)-Maroon Soft-Fissil Ls Wht-Crm-Gry
 Fxln Dns Micrite Grad Pin-Pt Ixln Por Cht Wht Op Shp Vit Chalk No Odor No
 Stn No Flor NS

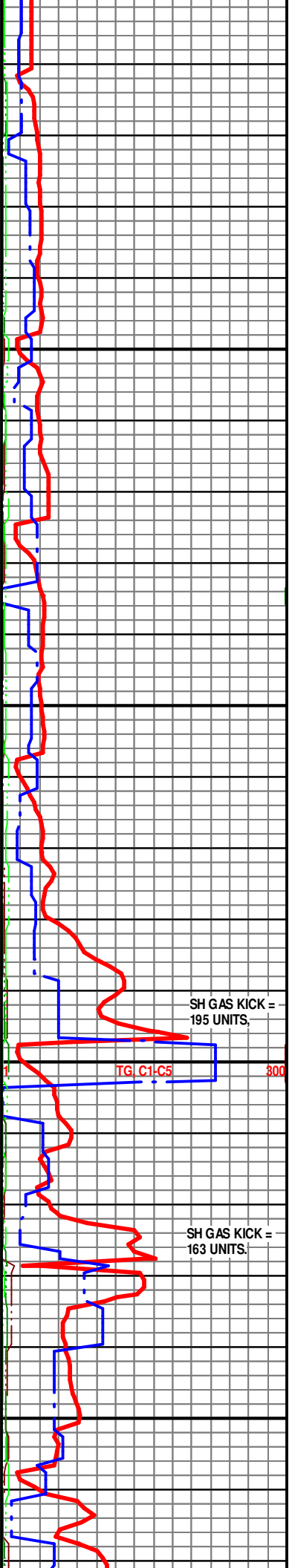
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 No Flor NS

TORONTO 4248' (- 1423)

Ls Wht-Crm-Gry Fxln Dns Micrite Grad Pin-Pt Ixln Por Chalk No Odor No Stn
 No Flor NS

Sh Char-Gry (w/Pyr Inclus)-Maroon Soft-Fissil Ls Wht-Crm-Gry Fxln Dns
 Micrite Grad Pin-Pt Ixln Por Cht Wht Op Shp Vit Chalk No Odor No Stn No
 Flor NS

DOUGLAS 4268' (- 1443)



SH GAS KICK = 195 UNITS.

TG C1-C5 800

SH GAS KICK = 163 UNITS.

Sh Blk Carb-Char-Gry (w/Pyr Inclus)-Maroon Fossil Ls Wht-Crm-Gry FxIn Dns Micrite Grad Pin-Pt IxIn Por Cht Wht Op Shp Vit Chalk No Odor No Stn No Flor NS

Sh Blk Carb-Char-Gry (w/Pyr Inclus) Soft-Fissil Ls Wht-Crm-Gry FxIn Dns Micrite Grad Pin-Pt IxIn Por Cht Wht Op Shp Vit Chalk No Odor No Flor NS

IATAN 4294' (- 1469)

LANSING 4298' (- 1473)

Ls Wht-Crm-Tan-Gry (w/Pyr & Fos (Fuss) Inclus) MicroIxIn Dns Micritic Barren Grad FxIn Poor Pin-Pt IxIn Por Barren Cht Wht Op Shp Vit Chalk No Odor No Stn No Flor

Ls Wht-Crm-Tan-Gry MicroIxIn Dns Micritic Barren Grad FxIn Poor Pin-Pt IxIn Por Barren Fos (Fuss Inclus) Cht Wht Op Shp Vit Chalk No Odor No Stn No Flor

Ls Wht-Crm-Tan-Gry MicroIxIn Dns Micritic Barren Grad FxIn Poor Pin-Pt IxIn Por Barren Fos (Fuss) Cht Wht Op Shp Vit Chalk No Odor No Stn No Flor

Ls Wht-Crm-Gry FxIn Micrite Barren Grad Poor Pin-Pt IxIn Por Fos (Brach w/Pyr Inclus) Chalk Sh Char-Gry-Blk Carb-Maroon Fissil Soft No Odor No Stn No Flor NS

Ls Wht-Crm MicroIxIn-FxIn Micrite Barren Grad Poor Pin-Pt IxIn Por Cht Wht Op Shp Vit Chalk Sh Char-Gry Soft-Fissil Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Gry FxIn Micrite Barren Grad Poor Pin-Pt IxIn Por Cht Wht Op Shp Vit Chalk Sh Char-Gry-Blk Carb-Maroon Fissil Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Gry MicroIxIn Dns Micrite Barren Grad Poor IxIn Por ht Wht-Tan Op Shp Vit Chalk Fos (Fuss) Sh Char-Gry-Blk Carb Tr Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan FxIn Micrite Barren Cht Wht-Tan Translu-Op Shp Vit Chalk Sh Char-Gry Fissil-Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Tan FxIn Micrite Barren Cht Wht-Tan Translu-Op Shp Vit Chalk Sh Char-Gry Fissil-Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Tan FxIn Micrite Barren Cht Wht-Tan Translu-Op Shp Vit Chalk Sh Blk Carb-Char-Gry Fissil-Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Gry FxIn Micrite Barren Grad Fair-Med Pin-Pt IxIn Por Grad Poor OOM Por Poor InterOOM Por Barren Chalk Abd Cht Wht-Tan Translu-Op Shp Vit Sh Blk Carb-Char-Gry Fissil-Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Gry FxIn Micrite Barren Grad Fair-Med Pin-Pt IxIn Por Grad Poor OOM Por Poor InterOOM Por Barren Chalk Abd Cht Wht-Tan Translu-Op Shp Vit Sh Char-Gry Fissil-Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Gry FxIn Micrite Barren Grad Fair-Med Pin-Pt IxIn Por Grad Poor OOM Por Poor InterOOM Por Barren Chalk Abd Cht Wht-Tan Translu-Op Shp Vit Sh Char-Gry Fissil-Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Gry FxIn Micrite Barren Grad Fair-Med Pin-Pt IxIn Por Grad Poor OOM Por Poor InterOOM Por Barren Chalk Abd Cht Wht-Tan Translu-Op Shp Vit Sh Char-Gry Fissil-Soft No Odor No Stn No Flor NS

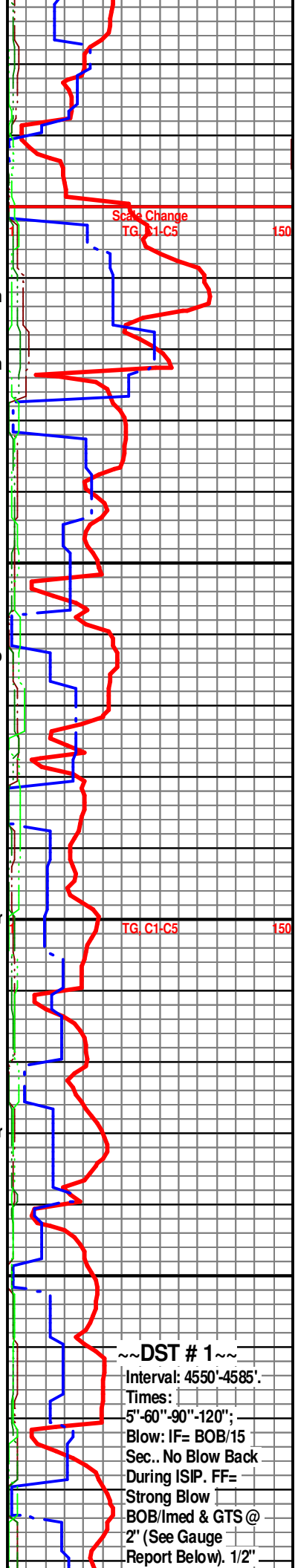
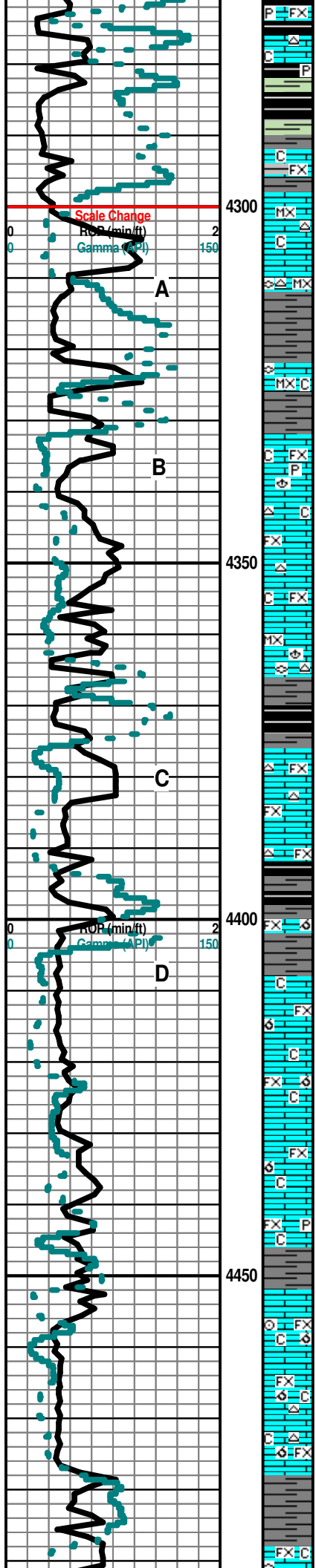
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Ls Crm-Tan-Gry FxIn Poor- IxIn Por Barren (w/Fos (Crin) Inclus) Grad Poor OOM Por Poor Leaching Poor Develop Chalk Abd Sh Char-Gry-Aqua Fissil No Odor No Flor No Stn NS

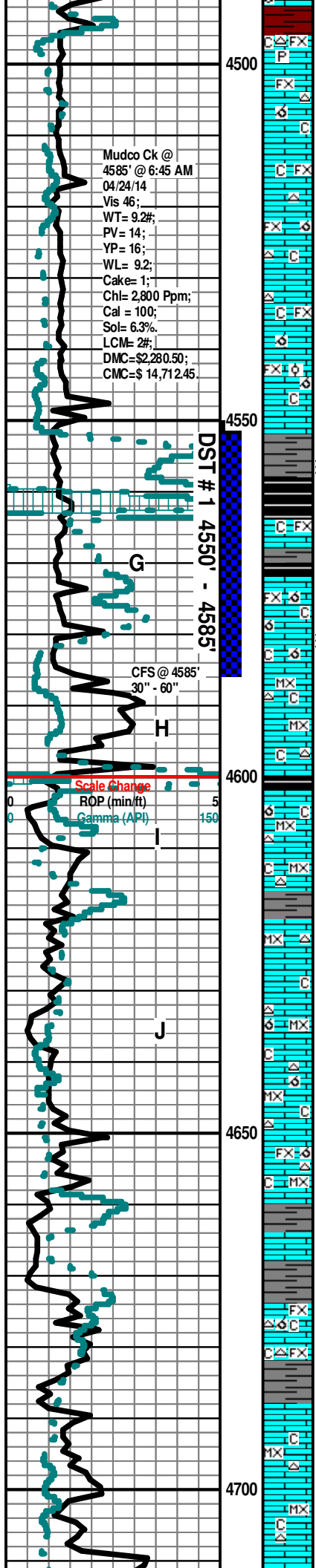
Ls Wht-Crm-Tan FxIn Fair-Med OOM Por Poor InterOOM Por Barren Chalk Abd Cht Wht-Tan Translu-Op Shp Vit Sh Char-Gry Fissil-Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Tan FxIn Fair-Med OOM Por Poor InterOOM Por Barren Chalk Abd Cht Wht-Tan Translu-Op Shp Vit Sh Blk Carb-Char-Gry Fissil-Soft No Odor No Stn No Flor NS

Ls Crm-Tan-Gry FxIn Dns Micrite Poor IxIn Por Barren Fos (Fuss) Chalky Sh Blk Carb-Char-Gry Fissil No Odor No Flor No Stn NS



~DST # 1~
Interval: 4550'-4585'.
Times:
5"-60"-90"-120";
Blow: IF= BOB/15
Sec.. No Blow Back
During ISIP. FF=
Strong Blow
BOB/Imed & GTS @
2' (See Gauge
Report Below). 1/2"



Ls Tan-Crm-Gry Fxn Dns Micrite Poor Ixn Por Barren Fos (Fuss) Chalky Sh Blk Carb-Char-Gry-Maroon Fissil No Odor No Flor No Stn NS

Ls Tan-Wht-Crm Fxn Good OOM Por Fair-Med InterOOM Vug Por Barren Chalk Abd Sh Blk Carb-Char-Gry Fissil-Soft No Odor No Flor NS

Ls Wht-Crm-Tan Fxn Med-Good OOM Por Poor-Fair InterOOM Por Barren Chalk Abd Cht Wht-Tan Translu-Op Shp Vit Sh Blk Carb - Char - Gry-Maroon Fissil-Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Tan Fxn Med-Good OOM Por Poor-Fair InterOOM Por Barren Chalk Abd Cht Wht-Tan Translu-Op Shp Vit Sh Blk Carb - Char - Gry-Maroon Fissil-Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Tan Fxn Med-Good OOM Por Poor-Fair InterOOM Por Barren Chalk Abd Cht Wht-Tan Translu-Op Shp Vit Sh Blk Carb - Char - Gry-Maroon Fissil-Soft No Odor No Stn No Flor NS

Ls Crm-Tan-Gry Fxn Med-Good OOM Por Poor-Fair InterOOM Vug Por (w/Small-Med OOids in pl) Barren Cht Wht Op Shp Vit Sh AA Sli ? Min Odor No Flor No Stn NS

30" CFS @ 4585' Sh Char-Gry Fissil-Soft Ls Crm-Tan-Gry Fxn Dns Micrite Poor Ixn Por Barren Cht Wht -Gry Translu-Op Shp Vit Chalky No Odor Sli ? Min Flor No Stn SSG

LANSING "G" 4564' (- 1739)

60" CFS @ 4585' Ls Wht-Crm-Tan Fxn Med-Good OOM PorMed InterOOM Vug Por Barren Cht Wht Op Shp Vit Sh No Odor Sli ? Min Flor (Dull Wht) No Stn ? SSG

--- NOTE: PIPE STUCK ON SHORT TOH PRIOR TO DST #1. SPOTTED 80 BBL. OIL. PIPE CAME FREE w/40 BCO RECOVERED..

Ls Wht-Crm-Tan MicroxIn Dns Micrite Cht Wht Op Shp Vit Chalky Abd Sh Char-Gry Soft-Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Tan MicroxIn Dns Micrite Grad Poor Granular Ixn Por Barren Grad Poor OOM Por Poor Develop Poor Leaching Cht Wht Op Shp Vit Chalky Abd Sh Char-Gry Soft-Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Tan MicroxIn Dns Micrite Cht Wht Op Shp Vit Chalky Abd Sh Char-Gry Soft-Fissil No Odor No Flor No Stn NS

Sh Char-Gry Soft-Fissil Ls Wht-Crm-Tan MicroxIn Dns Micrite Cht Wht Op Shp Vit Chalky Abd No Odor No Flor No Stn NS

Ls Wht-Crm MicroxIn Dns Micrite Grad Fair OOM Por Poor Develop Poor Leaching Soft Chalk Abd AA Cht Gry Translu-Op Shp Vit Sh Char-Gry No Odor No Flor No Stn NS

Ls Wht-Crm MicroxIn Dns Micrite Grad Fair OOM Por Poor Develop Poor Leaching Soft Chalk Abd AA Cht Gry Translu-Op Shp Vit Sh Char-Gry No Odor No Flor No Stn NS

Ls Wht-Crm MicroxIn Dns Micrite Grad Fxn Fair OOM Por Poor Develop Poor Leaching Soft Chalk Abd AA Cht Gry Translu-Op Shp Vit Sh Char-Gry No Odor No Flor No Stn NS

Sh Char-Gry Soft-Fissil Ls Wht-Crm MicroxIn Dns Micrite Grad Fair OOM Por Poor Develop Poor Leaching Soft Chalk Abd Cht Gry Translu-Op Shp Vit No Odor No Flor No Stn NS

Ls Crm-Tan Fxn Poor OOM Por Poor InterOOM Por Poor Dissolu Poor Leaching Grad Dns Micrite Cht Wht Op Shp Vit Chalky Sh Char-Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Tan Fxn Poor OOM Por Poor InterOOM Por Poor Dissolu Poor Leaching Grad Dns Mirite Cht Wht Op Shp Vit Chalky Sh Char-Gry Fissil No Odor No Flor No Stn NS

Ls Wht-Crm MicroxIn Dns Micrite Cht Gry Translu-Op Shp Vit Sh Char- Gry Soft No Odor No Stn No Flor NS

Ls Wht-Crm MicroxIn Dns Micrite Cht Gry Translu-Op Shp Vit Sh Char- Gry Soft No Odor No Stn No Flor NS

Ls Wht-Crm MicroxIn Dns Micrite Cht Gry Translu-Op Shp Vit Sh Char- Gry

Blow Back During FSIP.

Scale Change
Recovery: 4087' GIP; 750
464' TF: 247 MCW
(20% M & 80% W) &
217' GCMW (10% G,
36% W & 60% M).

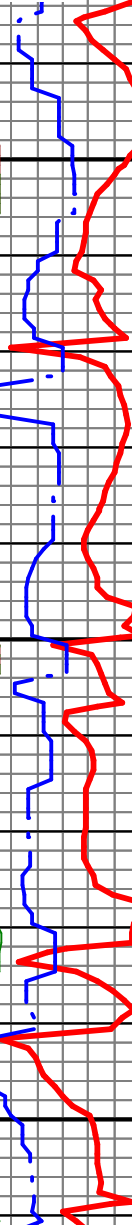
Pressures:
IH = 2365#;
FH = 2115#;
IF = 117-93#;
FF = 95-202#;
ISIP = 1393#;
FSIP = 1368#;
Temp. = 115 degrees F.

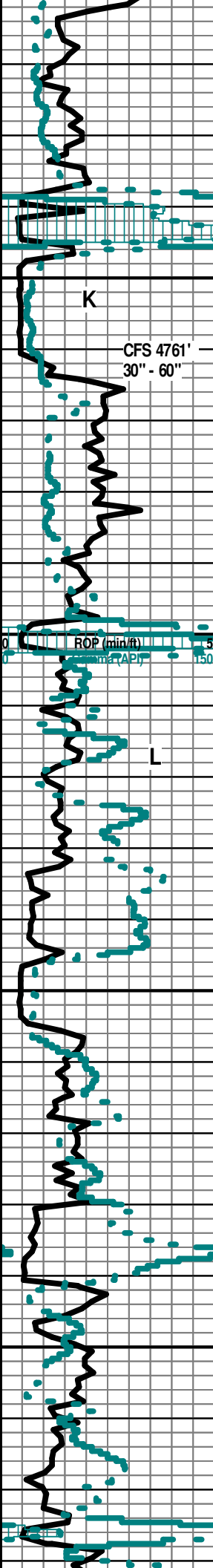
FF GAS GAUGE
@ 10" = 214.6 Mcf;
@ 20" = 208.7 Mcf;
@ 30" = 197.5 Mcf;
@ 40" = 186.1 Mcf;
@ 50" = 119.0 Mcf;
@ 60" = 117.7 Mcf;
@ 70" = 53.9 Mcf;
@ 80" = 58.3 Mcf;
@ 90" = 58.3 Mcf.

GAS KICK = 635

UNITS.
PIPE STRAP = <1.73'>
LONG TO BOARD. NO
COR. MADE..

Mudco Ck @ 4585' @ 5:25 AM
04/25/14
TG C Vis 45;
WT= 9.2#;
PV= 14;
YP= 15;
WL= 9.2;
Cake= 1;
Chl= 3,100 Ppm;
Cal = 120;
Sol= 6.3%
LCM= 2#;
DMC=\$ 0.00;
CMC=\$14,712.45.





4750

4800

4850

4900

Ls Wht-Crm MicroxIn Dns Micrite Cht Gry Translu-Op Shp Vit Sh Char- Gry

Ls Crm-Tan FxIn Dns Micrite Grad Poor OOM Por Poor InterOOM Por Poor
Dissolu Poor Leaching Cht Wht Op Shp Vit Chalky Sh Char-Gry Fissil No
Odor No Flor No Stn N

STARK SHALE 4738' (- 1913)

Sh Blk Carb Fissil (w/SG)

KANSAS CITY "SWOPE Ø" (K) 4747' (-1922)

30" CFS @ 4761' Ls Wht-Crm-Tan MicroxIn-FxIn Dns Micrite Grad FxIn Fair-Med Vug InterOOM
Por (w/Small-Med OOids in pl) Few Free OOids Med-Good Leaching Med Develop (w/MSG in
Heated Wtr & Sli Lt Brn Stn on Edges of OOids (10% in Tray) Cht Wht Op Shp Vit Chalky Sh
Blk Carb Fissil ? Sli Flor (35% of Tray-Lt Grn) ? Faint Odor MSG

60" CFS @ 4761' Ls Wht-Crm-Tan FxIn Med Vug InterOOM Por (w/Small-Med OOids in pl) Few
Free OOids Med-Good Leaching Med Develop (w/MSG in Heated Wtr) Sli Lt Brn Stn on Edges
of OOids (15% in Tray) Cht Wht Op Shp Vit Chalky Sh Blk Carb Fissil ? Sli Flor (60% of Tray-Lt
Grn) ? Faint Odor MSG

Ls Wht-Crm FxIn MicroxIn Dns Micrite (w/Pyr Includ) Barren Grad Chalky Sh
Char-Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm FxIn MicroxIn Dns Micrite (w/Pyr Includ) Barren Grad Chalky Sh
Char-Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm FxIn MicroxIn Dns Micrite (w/Pyr Includ) Barren Grad Chalky Sh
Blk Carb-Char-Gry Fissil No Odor No Stn No Flor NS

HUSHPUCKNEY SHALE 4798' (- 1973)

Sh Blk Carb-Char-Gry Fissil-Soft Ls Crm-Tan-Gry FxIn Dns Micrite Poor IxIn
Por Barren Cht Wht -Gry Translu-Op Shp Vit Chalky No Odor No Flor No Stn
NS

Ls Crm-Tan-Gry FxIn Dns Micrite Poor IxIn Por Barren Cht Wht -Gry Translu-Op Shp Vit
Chalky Sh Blk Carb-Char-Gry Fissil-Soft No Odor No Flor No Stn NS

KANSAS CITY "HERTHA Ø" 4818' (-1993)

Ls Crm-Tan-Gry FxIn Dns Micrite Poor IxIn Por Barren Cht Wht -Gry
Translu-Op Shp Vit Chalky Sh Blk Carb-Char-Gry Fissil-Soft No Odor No
Flor No Stn NS

Sh Blk Carb-Char-Gry-Grn Fissil-Soft Ls Crm-Tan-Gry FxIn Dns Micrite Poor
IxIn Por Barren Cht Wht-Gry Translu-Op Shp Vit Chalky No Odor No Flor No
Stn NS

Sh Blk Carb-Char-Gry-Grn Fissil-Soft Ls Crm-Tan-Gry FxIn Dns Micrite Poor
IxIn Por Barren Cht Wht-Gry Translu-Op Shp Vit Chalky No Odor No Flor No
Stn NS

Ls Tan-Crm MicroxIn Micritic Barren Chalk Sh Char-Grn Fissil No Odor No
Flor No Stn NS

Ls Tan-Crm MicroxIn Micritic Barren Chalk Sh Char-Grn Fissil No Odor No
Flor No Stn NS

Ls Tan-Crm MicroxIn Micritic Barren Chalk Sh Char-Grn Fissil No Odor No
Flor No Stn NS

Sh Blk Carb-Char-Gry-Maroon-Aqua Soft-Fissil Ls Crm-Wht-Tan FxIn Poor
IxIn Por Micritic Dns Barren Grad FxIn Chalk No Odor No Flor No Stn NS

MARMATON 4891' (- 2066)

Ls Crm-Wht-Tan FxIn Poor IxIn Por Micritic Dns Barren Grad FxIn Chalk Sh
Char-Gry-Maroon-Aqua Soft-Fissil No Odor No Flor No Stn NS

Ls Gry-Crm-Wht MicroxIn Poor IxIn Por Micritic Dns Barren Cht Gry Translu-Op Shp Vit Chalk
Abd Sh Blk Carb-Char-Gry Soft-Fissil No Odor No Flor No Stn NS

Ls Gry-Crm-Wht MicroxIn Poor IxIn Por Micritic Dns Barren Cht Gry
Translu-Op Shp Vit Chalk Abd Sh Blk Carb-Char-Gry Soft-Fissil No Odor No
Flor No Stn NS

Sh-Blk Carb-Char-Gry-Aqua Fissil Ls Wht Crm-Tan FxIn Poor IxIn Por Micritic Dns Barren
Chalk Cht Wht-Gry Translu-Op (w/Fos Includ) Shp Vit No Odor No Flor No Stn

MARMATON "B" 4925' (- 2100)

BKGD GAS =
250 UNITS.

SH GAS KICK =
468 UNITS.

GAS KICK = 365
UNITS.

RECYCLE GAS KICK=
385 UNITS.

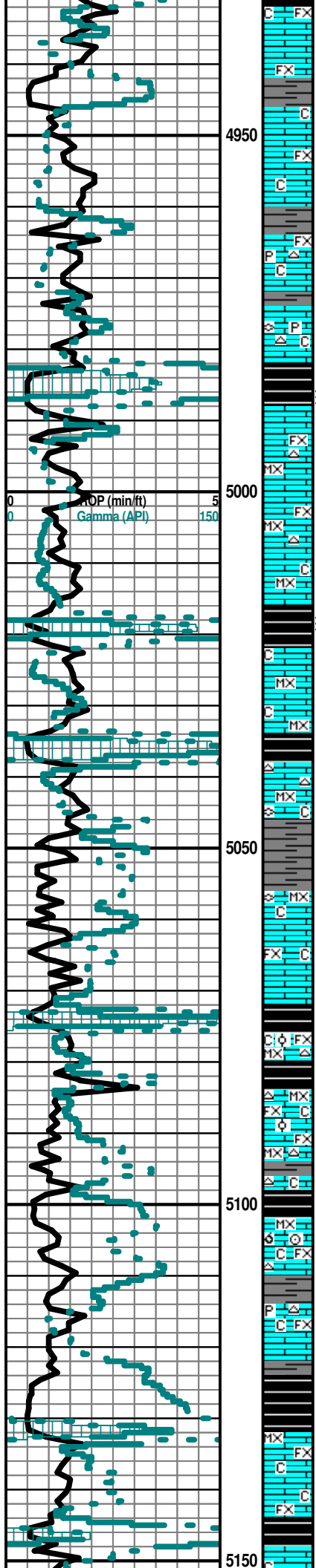
SH GAS KICK =
427 UNITS

Scale Change
TG C1-C5 600

TG C1-C5

750

600



Ls Crm-Wht-Tan FxIn Poor IxIn Por Micritic Dns Barren Grad FxIn Chalk Sh Blk Carb-Char-Gry Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Wht-Gry FxIn Poor IxIn Por Micritic Dns Barren Chalk Sh Char-Gry Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Wht-Gry FxIn Poor IxIn Por Micritic Dns Barren Chalk Sh Char-Gry Soft-Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Gry FxIn Poor IxIn Pin-Pt Por Micritic (w/Pyr Inclus) Dns Barren Cht Wht Translu-Op Shp Vit Fos (Fuss) Chalk Sh Char-Gry Soft-Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Gry FxIn Poor IxIn Pin-Pt Por Micritic (w/Pyr Inclus) Dns Barren Cht Wht Translu-Op Shp Vit Fos (Fuss) Chalk Sh Char-Gry Soft-Fissil No Odor No Flor No Stn NS

BANDERA SHALE 4984' (- 2159)

Sh Blk Carb-Char-Gry Fissil No Odor No Flor No Stn NS

PAWNEE 4990' (- 2165)

Ls Wht-Crm-Gry MicroIxIn-FxIn Micrite Dns Grad Poor IxIn Gran Por Cht Wht Translu-Op Shp Vit Sh Blk Carb-Char- Grn/Gry Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Gry MicroIxIn-FxIn Micrite Dns Grad Poor IxIn Gran Por Cht Wht Translu-Op Shp Vit Sh Blk Carb-Char-Grn/Gry Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Tan MicroIxIn Micrite Chalky Sh Blk Carb-Aqua No Odor No Flor No Stn NS

LABETTE SHALE 5016' (- 2191)

Sh Blk Carb-Char-Gry Fissil No Odor No Flor No Stn NS

FORT SCOTT 5022' (-2197)

Ls Wht-Crm-Tan MicroIxIn Micrite Chalky Sh Blk Carb-Char-Gry Fissil No Odor No Flor No Stn NS

CHEROKEE SHALE 5034' (- 2209)

Sh Blk Carb Abd-Char-Gry Fissil Ls Wht-Crm-Tan MicroIxIn Micrite Grad FxIn Poor Pin-Pt IxIn Por Cht Amber-Wht-Tan Translu-Op Shp Vit Fos (Fuss) Chalk No Odor No Flor No Stn NS

Ls Wht-Crm-Tan MicroIxIn Micrite Grad FxIn Poor Pin-Pt IxIn Por Cht Amber-Wht-Tan Translu-Op Shp Vit Fos (Fuss) Chalk Sh Blk Carb Abd-Char-Gry No Odor No Flor No Stn NS

Ls Crm-Wht FxIn Poor IxIn Por Micritic Dns Barren Chalk Sh Char- Gry Fissil No Odor No Flor No Stn NS

SECOND CHEROKEE SHALE 5072' (- 2247)

Sh Blk Carb-Char-Gry Fissil Ls Crm-Tan MicroIxIn-FxIn Poor IxIn Por Micritic Dns Barren Grad Poor OOL Por (w Small OOids in pl) Cht Wht Op Shp Vit Chalk Sh Char-Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Tan MicroIxIn-FxIn Poor IxIn Por Micritic Dns Barren Grad Poor OOL Por (w Small OOids in pl) Cht Wht Op Shp Vit Chalk Sh Blk Carb-Char-Gry Fissil No Odor No Flor No Stn NS

Sh Blk Carb-Char-Gry Fissil Ls Crm-Tan MicroIxIn-FxIn Poor IxIn Por Micritic Dns Barren Grad Poor OOM Por (w Small OOids in pl) Cht Wht Op Shp Vit Chalk Fos (Crin) No Odor No Flor No Stn NS

Ls Wht-Crm FxIn Poor IxIn Por Micritic Dns (w/Pyr Inclus) Barren Chalk Cht Amber Op Shp Vit Sh Blk Carb-Gry Fissil No Odor No Flor No Stn NS

THIRD CHEROKEE SHALE 5172' (- 2297)

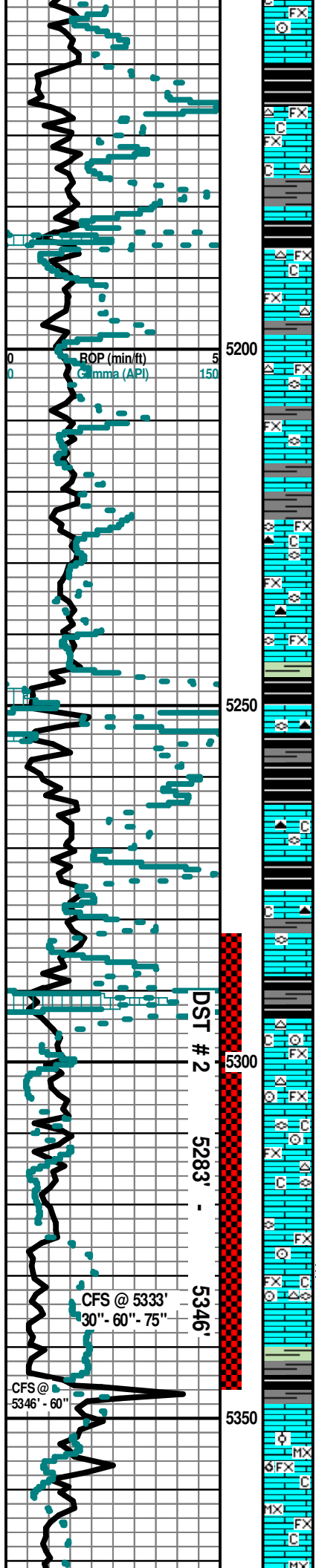
Sh Blk Carb-Gry Fissil Ls Crm-Wht-Tan FxIn Poor IxIn Por Micritic Dns Barren Chalk No Odor No Flor No Stn NS

Sh Blk Carb (w/SG)-Char-Gry Fissil Ls Wht-Crm-Tan MicroIxIn-FxIn Poor IxIn Por Micritic Dns Barren Chalk Wht Soft No Odor No Flor No Stn NS

Sh Blk Carb-Gry Fissil Ls Crm-Wht-Tan FxIn Poor IxIn Por Micritic Dns Barren Chalk No Odor No Flor No Stn NS

SH GAS KICK = 325 UNITS.

TG C1-C5 600



Ls Crm-Wht-Tan Fxln Poor Ixln Por Micritic Dns Barren Chalk Fos (Crin) Sh Blk Carb-Gry Fissil No Odor No Flor No Stn NS

Sh Blk Carb-Gry Fissil Ls Crm-Wht-Tan Fxln Poor Ixln Por Micritic Dns Barren Chalk Wht Soft Cht-Wht-Amber Op Shp Vit No Odor No Flor No Stn NS

Ls Crm-Wht-Tan Fxln Poor Ixln Por Micritic Dns Barren Chalk Cht-Wht-Amber Op Shp Vit Sh Blk Carb-Gry Fissil No Odor No Flor No Stn NS

Sh Char-Gry-Tr Blk Carb Fissil Ls Crm-Wht-Tan Fxln Poor Ixln Por Micritic Dns Barren Chalk Cht-Gry Op Shp Vit I No Odor No Flor No Stn NS

Sh Blk Carb-Char-Gry Fissil Ls Crm-Wht-Tan Fxln Poor Ixln Por Micritic Dns Barren Chalk Cht-Gry Op Shp Vit I No Odor No Flor No Stn NS

Sh Char-Gry Fissil Ls Crm-Wht-Tan Fxln Poor Ixln Por Micritic Dns Barren Cht Wht (w/Fos (Fuss) Includ) Op Shp Vit No Odor No Flor No Stn NS

Sh Char-Gry-Tr Blk Carb Fissil Ls Crm-Wht-Tan Fxln Poor Ixln Por Micritic Dns Barren Cht Wht (w/Fos (Fuss) Includ) Op Shp Vit No Odor No Flor No Stn NS

Sh Char-Gry-Tr Blk Carb Fissil Ls Crm-Wht-Tan Fxln Poor Ixln Por Micritic Dns Barren Chalk Cht Drk Blk-Wht (w/Fos (Fuss) Includ) Op Shp Vit No Odor No Flor No Stn NS

Ls Crm-Wht-Tan Fxln Poor Ixln Por Micritic Dns Barren Chalk Cht Drk Blk-Wht (w/Fos (Fuss) Includ) Op Shp Vit Sh Char-Gry-Tr Blk Carb Fissil No Odor No Flor No Stn NS

ATOKA SHALE 5245' (- 2420)

Sh Char-Gry-Tr Blk Carb-Brn (w/SSG) Soft-Fissil Ls Crm-Wht-Tan MicroIn-Fxln Poor Ixln Por Micritic Dns Barren Chalk Cht Drk Blk-Wht (w/Fos (Fuss) Includ) Op Shp Vit Faint Odor No Flor No Stn NS

Sh Char-Gry-Blk Carb Soft-Fissil Ls Crm-Wht-Tan MicroIn-Fxln Poor Ixln Por Micritic Dns Barren Chalk Cht Drk Blk-Wht Banding (w/Fos (Fuss) Includ) Op Shp Vit No Odor No Flor No Stn NS

Ls Crm-Wht-Tan MicroIn-Fxln Poor Ixln Por Micritic Dns Barren Chalk Cht Drk Blk-Wht Banding (w/Fos (Fuss) Includ) Op Shp Vit Sh Char-Gry-Blk Carb Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Wht-Tan MicroIn-Fxln Poor Ixln Por Micritic Dns Barren Chalk Cht Drk Blk-Wht Banding (w/Fos (Fuss) Includ) Op Shp Vit Sh Char-Gry-Blk Carb Soft-Fissil No Odor No Flor No Stn NS

MORROW SHALE 5289' (- 2464)

MISSISSIPPIAN CHESTER 5294' (- 2469)

30' CFS @ 5233' Ls Crm-Tan Fxln Fair-Med Ixln Pin-Pt Por (w/Fos Includ (Crin)) Friable Por Fair-Med SG & SO (Gas & Oil Do Not Flor) (FSG & FSFO w/Broken In Wtr Under Heat) Cht Tan Translu Shp Vit Chalky Fair Inc Odor Scat Lt Brn Stn No Flor FSG & FSO

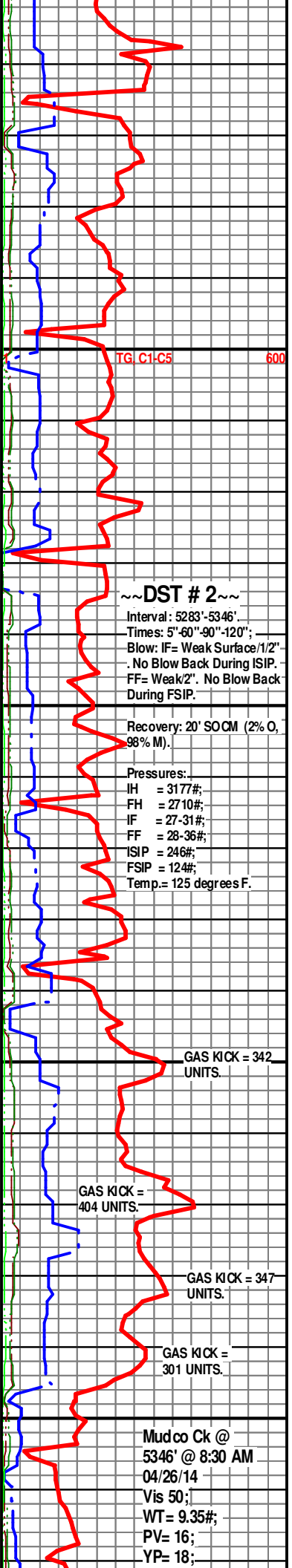
60' CFS @ 5233' Ls Crm-Tan Fxln Fair-Med Ixln Pin-Pt Por (w/Fos & Pyr Includ (Crin, Fuss)) Friable Por Fair-Med SG & SO AA (FSG & FSFO w/Broken In Wtr Under Heat) Cht Gry Translu Shp Vit Chalky Sh Blk Carb-Char-Gry Fissil Med Inc Odor Scat Lt Brn Stn No Flor FSG & FSO

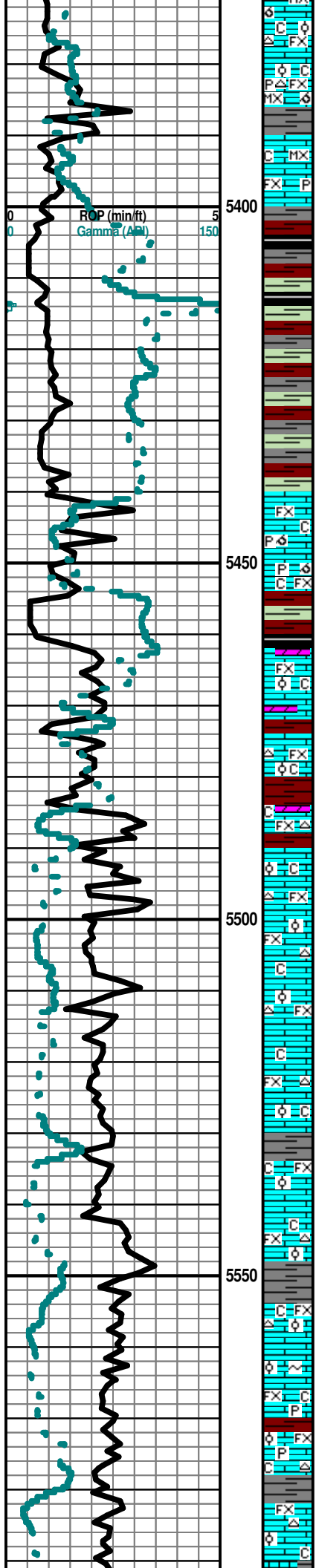
75' CFS @ 5233' Ls Crm-Tan Fxln Fair-Med Ixln Pin-Pt Por (w/Fos & Pyr Includ (Crin, Fuss)) Friable Por Fair-Med SG & SO AA (FSG & FSFO w/Broken In Wtr Under Heat) Cht Wht-Gry Translu Shp Vit Chalky Sh Blk Carb-Char-Gry-Aqua Fissil Med Inc Odor Scat Lt Brn Stn No Flor FSG & FSO

60' CFS @ 5246' Sh Blk Carb-Char-Gry-Aqua Fissil Ls Crm-Tan Fxln Fair-Med Ixln Pin-Pt Por Friable Por Fair-Med SG & SO AA Cht Wht-Gry Translu Shp Vit Chalky Faint ? Odor ? Scat Lt Brn Stn No Flor ? Sli SG & SO

Ls Wht-Crm MicroIn-Fxln Dns Micrite Grad Fair Pin-Pt Ixln Por Grad Tan Poor OOM Por (w/Small OOids in pl) Poor Dissolu Poor Leaching Chalky Sh Blk Carb-Char-Gry-Drab Grn Fissil No Odor No Flor No Stn NS

Ls Wht-Crm MicroIn-Fxln Dns Micrite Grad Fair Pin-Pt Ixln Por Grad Tan Poor OOM Por (w/Small OOids in pl) Poor Dissolu Poor Leaching Chalky Sh Blk Carb-Char-Gry-Drab Grn-Aqua Fissil No Odor No Flor No Stn NS





Ls Wht-Crm-Fxl Microxln-Fxln Dns Micrite Grad Poor Pin-Pt Ixln Por Grad Poor OOM Por (w/Small OOids in pl) Poor Dissolu Poor Leaching Cht Wht Op Shp Vit Chalky Sh Blk Carb-Char-Gry-Drab Grn-Aqua Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Tan Microxln-Fxln Dns Micrite Grad Poor Pin-Pt Ixln Por Grad Poor OOM Por (w/Small OOids in pl) Poor Dissolu Poor Leaching Cht Wht Op Shp Vit Chalky Pyr Mass Sh Blk Carb-Char-Gry-Drab Grn-Aqua Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Tan Microxln-Fxln Dns Micrite Grad Poor Pin-Pt Ixln Por Chalky Pyr Mass Sh Blk Carb-Char-Gry-Drab Grn-Aqua Fissil No Odor No Flor No Stn NS

Sh Maroon-Yell-Purp-Char-Blk Carb Soft-Fissil Abd Ls Wht-Crm Fxln Micrite Grad Fair Ixln Por Barren Cht Amber Translu Vit Shp No Odor No Stn No Flor

Sh Maroon-Yell-Purp-Char-Blk Carb Soft-Fissil Abd Ls Wht-Crm Fxln Micrite Grad Fair Ixln Por Barren Cht Amber Translu Vit Shp No Odor No Stn No Flor

Sh Maroon-Yell-Purp-Char-Blk Carb Soft-Fissil Abd Ls Wht-Crm Fxln Micrite Grad Fair Ixln Por Barren Cht Amber Translu Vit Shp No Odor No Stn No Flor NS

Sh Maroon-Yell-Purp-Char-Blk Carb Soft-Fissil Abd Ls Wht-Crm Fxln Micrite Grad Fair Ixln Por Barren Cht Amber Translu Vit Shp No Odor No Stn No Flor NS

LOWER CHESTER 5441' (-2616)

Ls Wht-Crm Fxln Micrite Grad Fair Ixln Por Barren Grad Poor OOM Por Poor Dissolu Poor Develop Pyr Mass Chalky Sh Maroon-Yell-Purp-Char-Blk Carb Soft-Fissil Abd (Wash Red) No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Micrite Grad Fair Ixln Por Barren Grad Poor OOM Por Poor Dissolu Poor Develop Pyr Mass Chalky Sh Maroon-Yell-Purp-Char-Blk Carb Soft-Fissil Abd (Wash Red) No Odor No Stn No Flor NS

MISSISSIPPIAN "Ste. GEN" 5462' (-2637)

Ls Wht-Lt Aqua (in Aqua CaCo3 Matrix) Fxln Poor OOL Por (w/V Small OOids in pl) "Sandy OOL Ls" Friable Grad Dolo Gry Microxln Dns Micrite Chalk Sh Char-Blk Carb-Gry-Grn-Aqua-Maroon Soft- Fissil No Odor No Flor No Stn NSNS

Ls Wht-Crm Fxln Poor OOL Por (w/V Small OOids in pl) "Sandy OOL Ls" Friable Grad Dolo Gry Microxln Dns Micrite Cht Amber-Gry Translu-Shp Vit Chalky Sh Char-Blk Carb-Gry-Grn-Aqua-Maroon Soft- Fissil No Odor No Flor No Stn NS

Sh Maroon-Red-Char-Blk Carb-Gry-Grn-Aqua Soft-Fissil Ls Wht-Crm Fxln Poor OOL Por Friable Grad Dolo Gry Microxln Dns Micrite Cht Amber-Gry Translu Shp Vit Chalk No Odor No Flor No Stn NS

Ls Wht-Tan Fxln Poor OOL Por "Sandy OOL Ls" Cht Yell Op Shp Vit Chalk Sh Varicolored AA Soft-Fissil No Odor ? Min Flor Inc (10% in Tray) No Stn NS

Ls Wht-Tan Fxln Poor OOL Por "Sandy OOL Ls" Cht Yell Op Shp Vit Chalk Sh Varicolored AA Soft-Fissil No Odor ? Min Flor Inc (10% in Tray) No Stn NS

Ls Wht-Tan Fxln Poor OOL Por "Sandy OOL Ls" Grad Dns Micrite Cht Gry Op Shp Vit Chalk Sh Varicolored AA Soft-Fissil No Odor ? Min Flor Inc (10% in Tray) No Stn NS

Ls Wht-Tan Fxln Poor OOL Por "Sandy OOL Ls" Grad Dns Micrite Cht Gry Op Shp Vit Chalk Sh Varicolored AA Soft-Fissil No Odor ? Min Flor Inc (10% in Tray) No Stn NS

Ls Wht-Tan Fxln Poor OOL Por "Sandy OOL Ls" Grad Dns Micrite Cht Gry Op Shp Vit Chalk Sh Varicolored Dec Soft-Fissil No Odor ? Min Flor Inc (10% in Tray) No Stn NS

Ls Wht-Tan Fxln Poor OOL Por "Sandy OOL Ls" Grad Dns Micrite Cht Gry Op Shp Vit Chalk Sh Varicolored Dec Soft-Fissil No Odor ? Min Flor Inc (10% in Tray) No Stn NS

Ls Wht-Tan Fxln Poor OOL Por "Sandy OOL Ls" Grad Dns Micrite Cht Gry Op Shp Vit Chalk Sh Varicolored Dec Soft-Fissil No Odor ? Min Flor Inc (10% in Tray) No Stn NS

Ls Wht-Tan Fxln Poor OOL Por "Sandy OOL Ls" (w/Tr Glacu Inclus) Grad Dns Micrite Grad Poor OOM Por (Tr Only) Cht Gry Op Shp Vit Chalk Pyr Mass Sh AA Dec Soft-Fissil No Odor ? Min Flor Inc (10% in Tray) No Stn NS

Ls Wht-Tan Fxln Poor OOL Por "Sandy OOL Ls" Grad Dns Micrite (w/Pyr Inclus) Cht Gry Op Shp Vit Chalk Sh Red-Maroon-Gry Soft-Fissil No Odor ? Min Flor Inc (10% in Tray) No Stn NS

Ls Wht-Tan Fxln Poor OOL Por "Sandy OOL Ls" Grad Dns Micrite Cht Gry Op Shp Vit Chalk Sh Red-Maroon-Gry Soft-Fissil No Odor ? Min Flor Inc (10% in Tray) No Stn NS

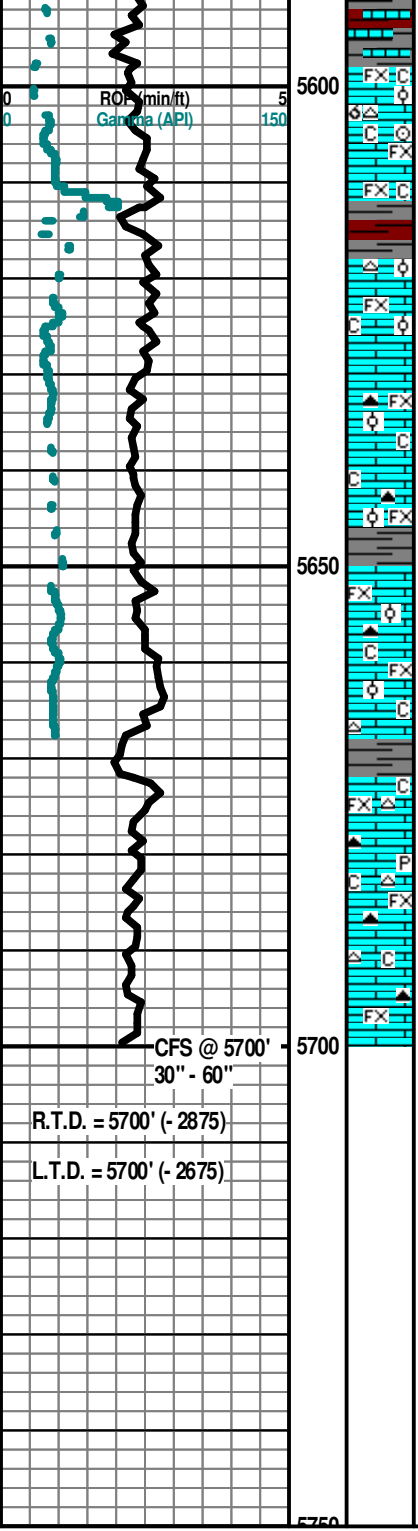
Ls Wht-Tan Fxln Poor OOL Por "Sandy OOL Ls" Grad Dns Micrite Cht Grn/Gry Op Shp Vit Fos (Crim) Chalk Pyr Mass Sh Char Grn Maroon Purpl Soft Fissil No Odor ? Min Flor Inc (10% in Tray) No Stn NS

WL= 9.2;
 Cake= 1;
 Chl= 3,100 Ppm;
 Cal = 40;
 Sol= 7.0%
 LCM= 4#;
 DMC=\$3,348.35;
 CMC=\$18,060.80..

TG C1-C5 600

SH GAS KICK= 176 UNITS.

Mudco Ck @
 5575' @ 3:30 PM
 04/27/14
 Vis 56;
 WT= 9.2#;
 PV= 18;



MISS. "ST. LOUIS" POROSITY 5598' (- 2773)

Ls Wht-Tan Fxln Poor-Fair OOL Por "Sandy OOL Ls" Grad Dns Micrite Grad
 Poor Vug OOM Por Barren Cht Wht-Gry Translu-Op Shp Vit Chalk Sh Char-
 Gry- Red -Maroon Soft-Fissil No Odor ? Min Flor Inc (5% in Tray) No Stn NS

Ls Wht-Tan Fxln Poor-Fair OOL Por "Sandy OOL Ls" Grad Dns Micrite Cht
 Wht- Gry Translu-Op Shp Vit Chalk Sh Char- Gry- Red- Maroon Soft-Fissil
 No Odor ? Min Flor Inc (5% in Tray) No Stn NS

Ls Wht-Tan Fxln Poor-Fair OOL Por "Sandy OOL Ls" Grad Dns Micrite Cht
 Wht-Gry Translu-Op Shp Vit Chalk Sh Char- Gry- Red- Maroon Soft-Fissil No
 Odor ? Min Flor Inc (5% in Tray) No Stn NS

Ls Wht-Tan Fxln Poor-Fair OOL Por "Sandy OOL Ls" Grad Dns Micrite Cht Wht- Gry-
 Org-Peach Translu-Op Shp Vit Chalk Sh Char- Gry- Red- Maroon Soft-Fissil No Odor ? Min Flor
 Inc (5% in Tray) No Stn NS

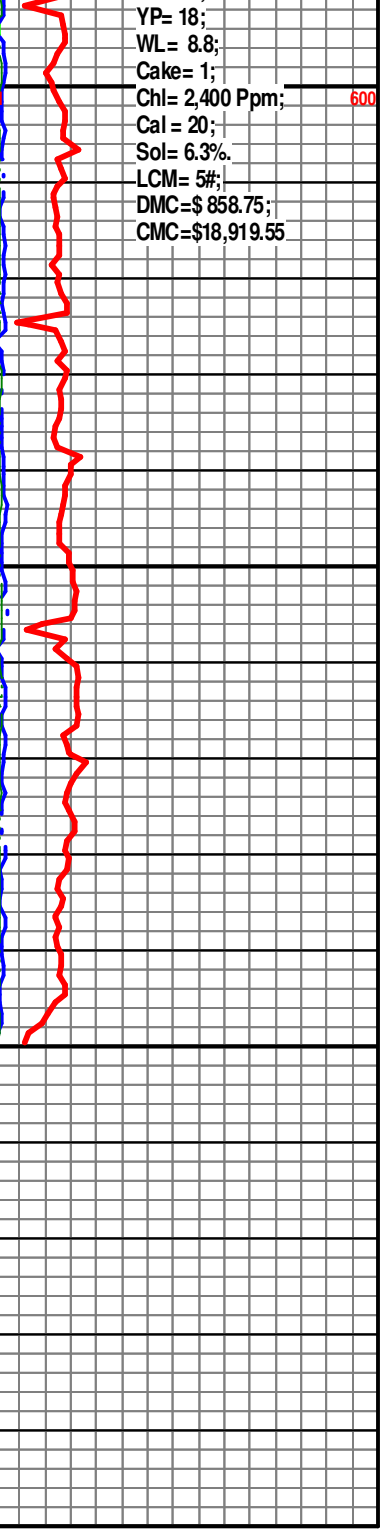
Ls Wht-Tan Fxln Poor-Fair OOL Por "Sandy OOL Ls" Grad Dns Micrite Cht Org-Peach
 Translu-Op Shp Vit Chalk Sh Char- Gry- Red- Maroon Soft-Fissil No Odor ? Min Flor Inc (5% in
 Tray) No Stn NS

Ls Wht-Gry Fxln Poor-Fair OOL Por "Sandy OOL Ls" Grad Dns Micrite Cht
 Org-Peach Translu-Op Shp Vit Chalk Sh Char-Gry Soft-Fissil No Odor ? Min
 Flor Inc (5% in Tray) No Stn NS

Ls Wht-Gry Fxln Poor-Fair OOL Por "Sandy OOL Ls" Grad Dns Micrite Cht
 Gry Op Shp Vit Chalk Sh Char-Gry Soft-Fissil No Odor ? Min Flor Inc (5% in
 Tray) No Stn NS

30" CFS @ 5700' Ls Wht-Gry Fxln Poor-Fair OOL Por "Sandy OOL Ls" Grad
 Dns Micrite Cht Gry-Drk Gry (w/Org ?Fos Inclu) Translu-Op Shp Vit Pyr
 Mass Chalk Sh Char-Gry Soft-Fissil No Odor ? Min Flor Inc (5% in Tray) No
 Stn NS

60" CFS @ 5700' Ls Wht-Gry Fxln Poor-Fair OOL Por "Sandy OOL Ls" Grad
 Dns Micrite Cht Clear-Wht-Org-Peach Translu-Op Shp Vit Chalk Sh
 Char-Gry Soft-Fissil No Odor ? Min Flor Inc (5% in Tray) No Stn NS



YP= 18;
 WL= 8.8;
 Cake= 1;
 Chl= 2,400 Ppm;
 Cal = 20;
 Sol= 6.3%
 LCM= 5#;
 DMC=\$ 858.75;
 CMC=\$18,919.55

Electric Logs Run: By Weatherford Logging: Dual Induction;
 Compensated Density-Neutron; Sonic; & Microresistivity Logs.

Geologist Left Location At: 11:15 AM on 04/28/2014

CFS @ 5700'
 30" - 60"

R.T.D. = 5700' (- 2875)

L.T.D. = 5700' (- 2675)