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

Well Name:	**JM KOEHN # 1-7(SW)**		
API:	**# 15 - 069 - 20,489 - 00 - 00**		
Location:	**SW - NW - NE - SW of SEC. 7 - 28 S. - 29 W.**		
License Number:	**KCC # 5316**	**Region:**	**Gray Co., Kansas**
Spud Date:	**11/13/2014**	**Drilling Completed:**	**11/26/2014**
Surface Coordinates:	**SPOT: 2285' FSL & 1458' FWL**		
Bottom Hole Coordinates:			
Ground Elevation (ft):	**2805'**	**K.B. Elevation (ft):**	**2816'**
Logged Interval (ft):	**sURFACE To: 5434'**	**Total Depth (ft):**	**5434'**
Formation:	**MISSISSIPPIAN "SALEM (SPERGEN)"**		
Type of Drilling Fluid:	**CHEMICAL/POLYMER/GEL**		

OPERATOR

Company: **FALCON EXPLORATION, INC.**
Address: **125 N. Market, Ste. 1252**
Wichita, Kansas 67202

GEOLOGIST

Name: **David P. Williams, P. G. # 88 KSBTP**
Company: **DW Energy. LLC (DWE)**
Address: **312 N. Broadview Street**
Wichita, Kansas 67208

CASING & DEVIATION

Surface Casing: Spud at 11:00 pm on 11/13/14. Drilled 12-1/4" to 1843'. Ran 44 joints of new 24#, 8-5/8" casing. Tallied 1824'. Set at 1838' KB . Welded straps on GS & bottom 3 joints, then tack welded all collars. Cemented with 460 sks A-Conn; 3% CC, 1/4# FS. Tailed with 150 sks Class C, 2% CC, 1/4#PF. Cement did circulate. Plug down at 11:30 pm on 11/15/14 Basic Energy Svcs Cementing ticket #05081. Centralizers (5) 3;8;21;31;35. Baskets (3) on joints 5;18;20. Cement fell 50'. Topped off backside with 30 sks Class C.at 5:45 pm on 11/16/14.

Deviation Survey's Taken: @ 1843' =1 1/4 degrees; @ 1922'= 1 degree; @ 3560'=1 1/4 derees; @ 4300'= 1 3/4

DSTs

~~DST # !~~ Interval: 3484'-3560'. Times: 5"-90"- 90"-180"; Blow: IF Strong Blow- BOB/1". FF BOB Instant (w/GTS @ 4" (See Gauge Report Below).
Recovery: 197' GM (2% G & 98% M).
Pressures: IH=1623#; FH =1612#; IF=28-44#; FF=45-121#; ISIP= 862#; FSIP=854#; Temp=102 degrees F.
Gas Flow: FF=@ 15"=8.89 Mcf; @ 22"=16.9 Mcf; @ 27"=20.3 Mcf; @ 32"=20.3 Mcf; @ 37"=25.0 Mcf;@ 42"=26.8 Mcf; @ 47" =27.6 Mcf; @ 52"=28.0 Mcf; @ 57"=28.9 Mcf; @ 62"=29.3 Mcf; @ 67"=30.2 Mcf; @ 72"=31.0 Mcf; @ 77"=31.5 Mcf; @ 82"=31.9 Mcf; @ 87" =31.9 Mcf.

~~DST # 2~~ Interval: 3582'-3618'. Times: 5"-90"-90"-180"; Blow: IF Strong Blow- BOB/8". ISIP: No Blow Back. FF:BOB/7". FSIP: V Weak BB.
Recovery:556' GIP. TF =267': 80' WM (45% Wtr & 55% M); 187'Wtr (100% Wtr).
Pressures: IH=1674#; FH=1672#; IF=15-34#; FF=39-133#; ISIP= 945#; FSIP=926#; Temp.=102 degrees F.; Chl.=76,000 Ppm; RW=.16 @ 60 degrees F..

~~DST # 3~~ Interval: 4184-4300'. Times: 5"-90"-120"-180"; Blow: IF Strong Blow- BOB/1.5". FF BOB Instant (w/GTS @ 48" (See Gauge Report Below).
Recovery: 378' TF: 253' GWM (1% G; 8% Wtr & 91% M); 125' GMW (1% G; 62% Wtr & 37% M)..
Pressures: IH=2022#; FH=1985#; IF=22-38#; FF=39-135#; ISIP= 1234#; FSIP=1230#; Temp =115 degrees F.
Gas Flow: FF= @ 60"=3.39 Mcf; @ 70"=6.89 Mcf; @ 80"=9.45 Mcf; @ 90"=14.0 Mcf; @ 100"=17.8 Mcf; @ 110"=20.1 Mcf; @ 120"=23.3 Mcf..

~~ DST # 4~~ Interval: 4800'-4845'. Times: 5"-60"-90"-180"; Blow: IF Weak Build to 1" Blow. ISIP: No Blow Back. FF: Weak Build to 3" Blow. FSIP: No Blow Back.

Recovery: <18' GIP. TF = 45' (6% G; 5% O & 89% M). Not Enough Oil To Get Grv. (w/Lt Grn Color.)

Pressures: IH= 2317#; FH=2256#; IF=26-28#; FF=30-52#; ISIP= 1285#; FSIP=1337#; Temp.=118 degrees F..

~~DST # 5~~Interval: 5008'-5062". Times: 5"-60"-45"-90"; Blow: IF Weak Build < 1" Blow. ISIP: No Blow Back. FF: Weak Build Died/11". Flushed Tool & Had Good Surge & Blow Died (No Help). FSIP: No Blow Back.

Recovery: TF = 20' VSGOSM (w/Few Spots Oil & Gassy Bubbles).

Pressures: IH =2377#; FH=2346#; IF=12-17#; FF=18-34#; ISIP= 97#; FSIP=81#; Temp.=120 degrees F..

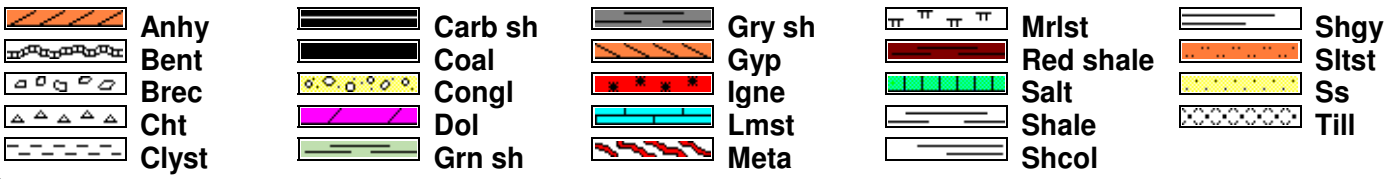
~~DST #6~~ Interval: 5165'-5212". Times: 5"-60"-45"-90"; Blow: IF Weak Build < 1" Blow. ISIP: No Blow Back. FF: No Blow. Flushed Tool No Blow (No Help). FSIP: No Blow Back.

Recovery: TF = 10' GM (Gassy Bubbles).

Pressures:
IH= 2491#; FH=22458#; IF=10-13#; FF=15-29#; ISIP=1504#; FSIP = 1419#; Temp.=119 degrees F..

Comments

ROCK TYPES



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
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

TEXTURE
- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY
- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

SORTING
- Well
- Moderate
- Poor

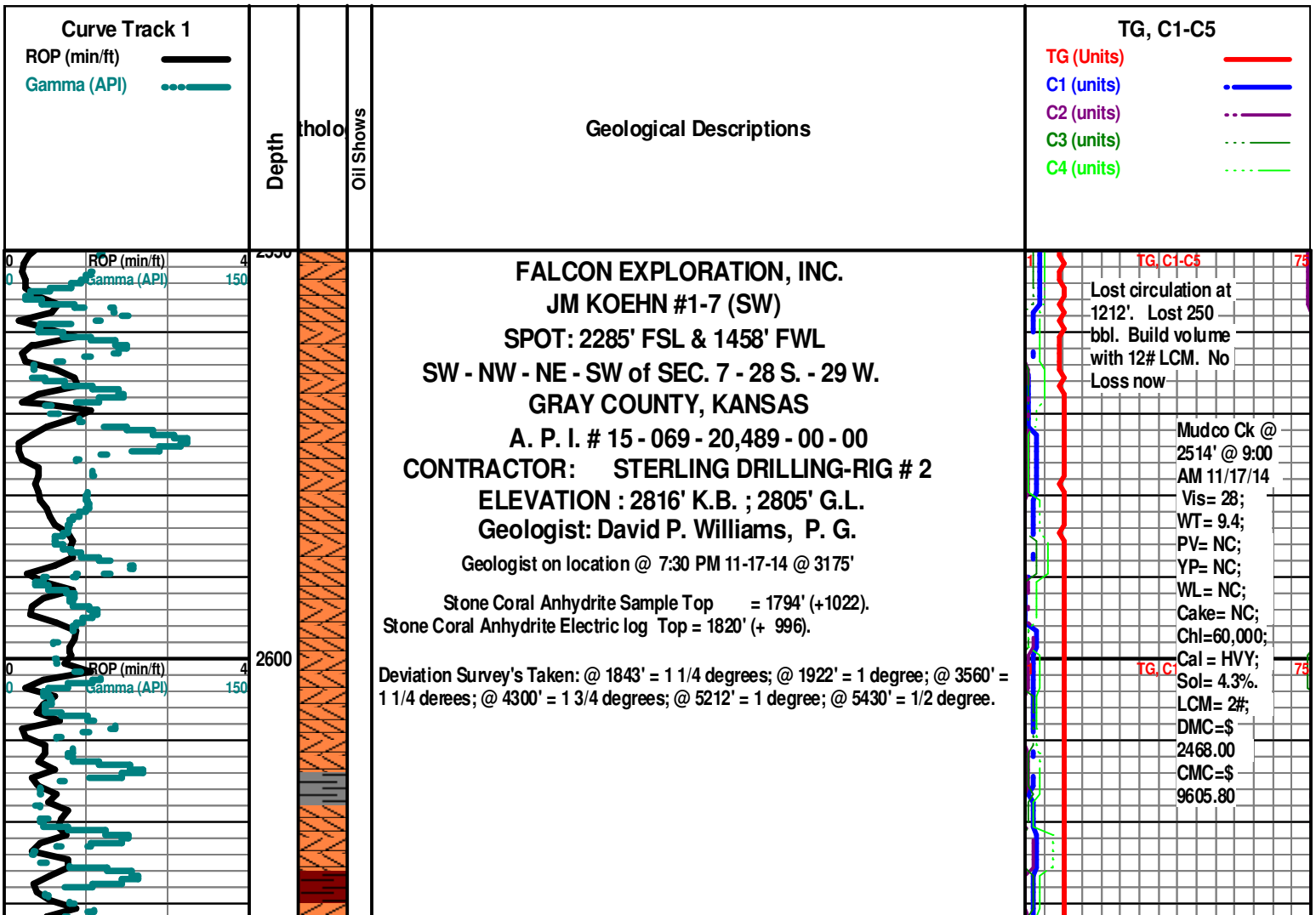
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

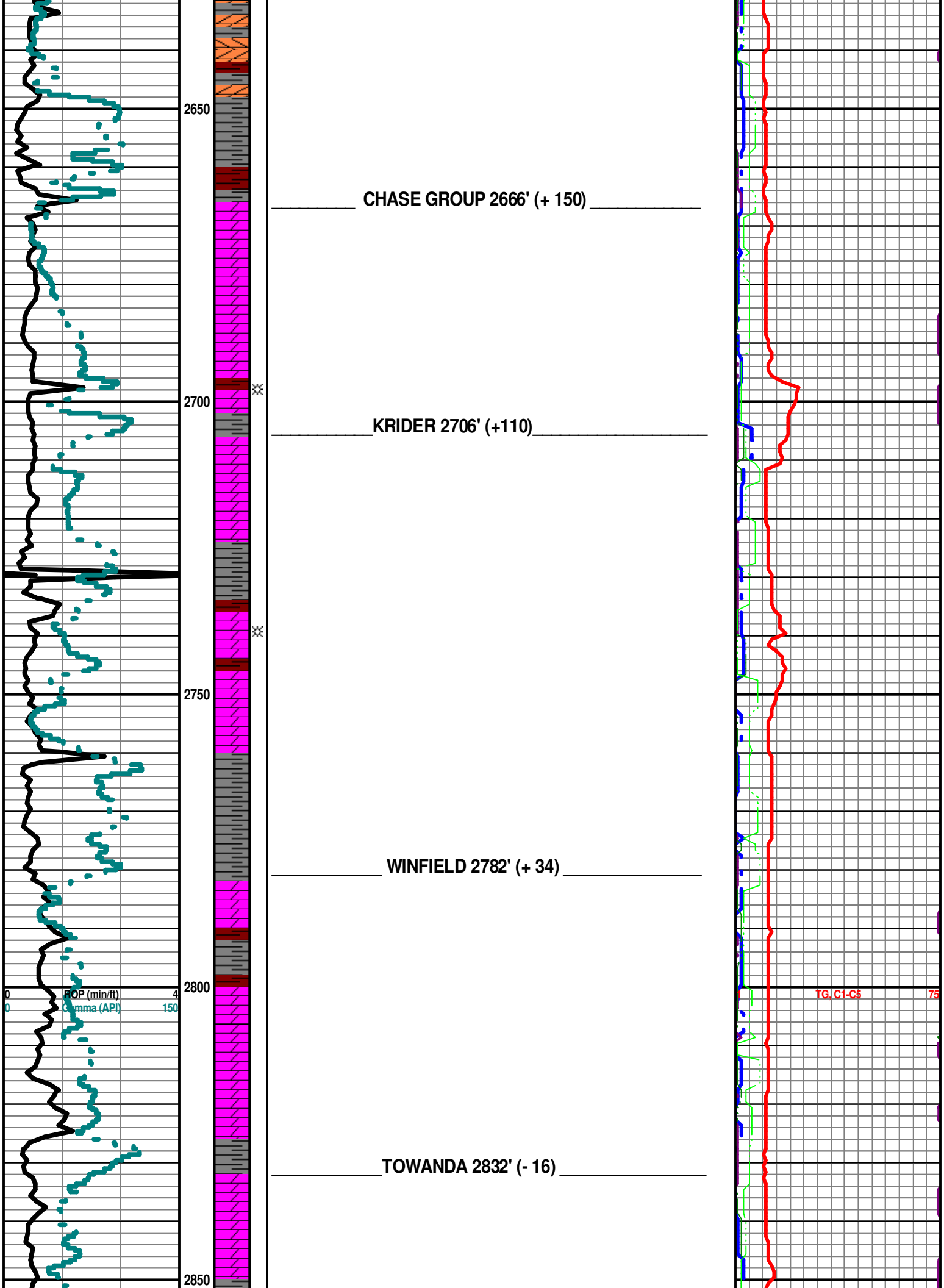
OIL SHOW
- Gas show

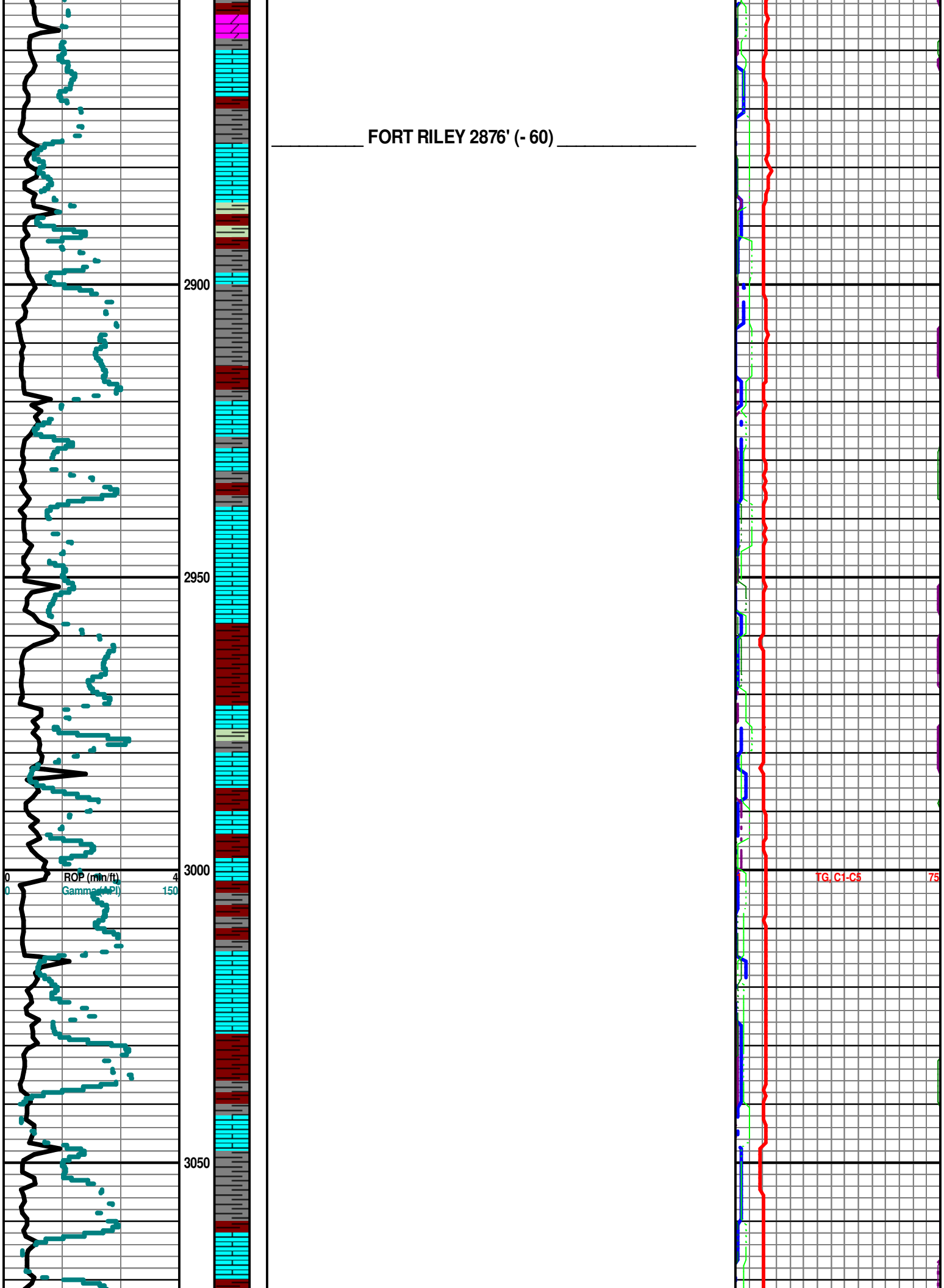
EVENT
- Even
- Spotted
- Ques
- Dead

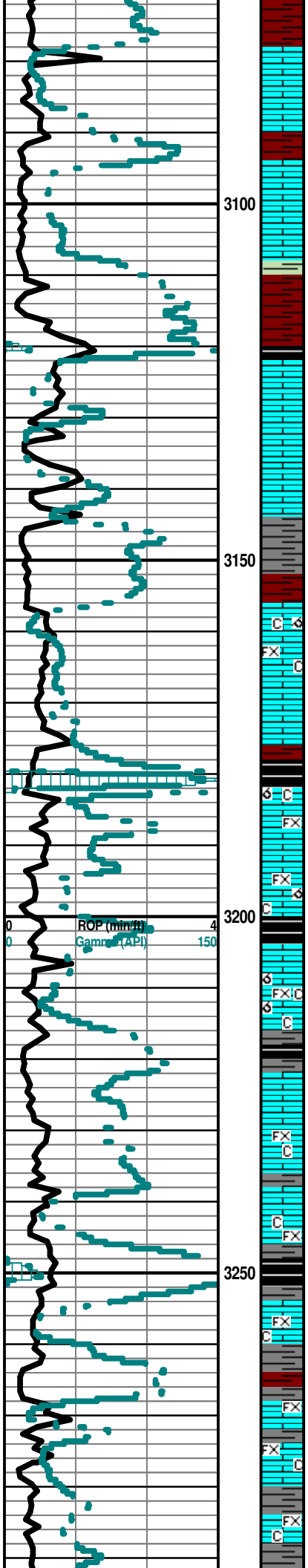
INTERVAL
- Dst
- Dst_alt

EVENT
- Rft
- Sidewall




2650
2700
2750
2800
2850
0
ROP (min/ft)
4
0
Gamma (API)
150
CHASE GROUP 2666' (+ 150)
KRIDER 2706' (+110)
WINFIELD 2782' (+ 34)
TOWANDA 2832' (- 16)
TG, C1-C5
75


FORT RILEY 2876' (- 60)
2900
2950
3000
3050
0
ROP (min/ft)
4
0
Gamma(API)
150
1
TG, C1-C5
75



BADER 3078' (- 262)

COTTONWOOD 3122' (-306)

Note: All samples have been lagged to depth by calculated time.

Begin 31' Sample Examination @ 3200'.

LS Wht-Tan Fxln Fair OOM Por (w/Poor Develop Sh Red-Char-Gry- Grn V Soft (Wash Red) No Odor No Flor No Stn NS

NEVA 3183' (- 367)

Ls Wht-Tan Fxln Inc Poor OOM Por Poor Dissolu Poor Develop Chalk Sh Red V Abd-Char-Gry-Grn No Odor No Stn No Flor NS

DISPLACE MUD SYSTEM @ 3200'

RED EAGLE 3204' (- 388)

Ls Wht-Tan Fxln Poor OOM Por Poor Develop Chalk Sh Red-Char-Gry - Grn No Odor No Stn No Flor NS

Sh Red-Char-Gry Soft-Fissil Ls Crm-Gry Fxln Poor-Fair-Med Pin-Pt Ixln Grad Micritic Chalk Abd No Odor No Stn No Flor NS

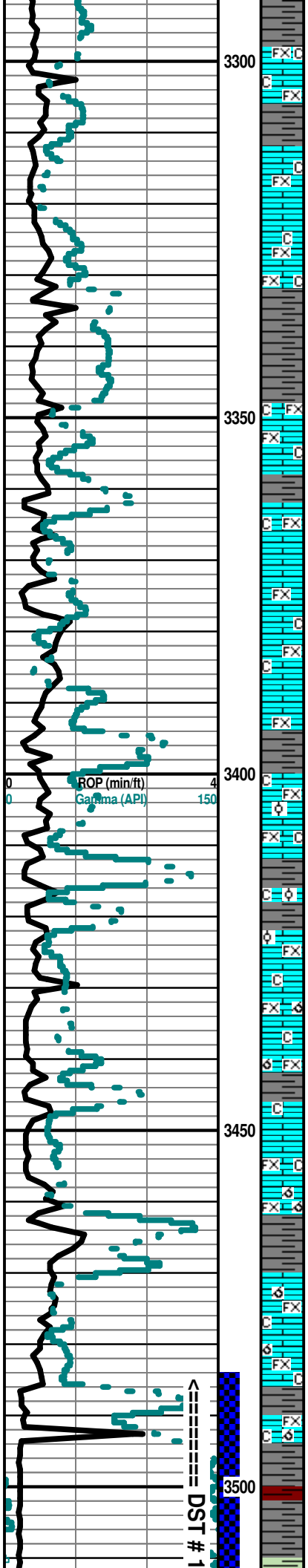
FORAKER 3270' (- 454)

RE-ZERO TOOKE DAQ @ 3176 LAG DEPTH. BKGD GAS SET = 12 UNITS.

TG, C1-C5

CHANGEOUT EXTRACTOR FILTER @ 3240' LAG DEPTH.

GAS TEST = 88 UNITS.



Ls Wht-Crm-Gry Fxln Poor Pin-Pt Ixln Por Chalk Sh Char-Gry-Red No Odor No Stn No Flor NS

Ls Gry Fxln Poor Pin-Pt Ixln Grad Chalk Abd Sh Char-Gry No Odor No Stn No Flor NS

Ls Gry Fxln Poor Pin-Pt Ixln Grad Dns Micrite Chalk Abd Sh Char-Gry No Odor No Stn No Flor NS

Ls Crm-Wht Fxln Poor Small Pin-Pt OOL Por Poor-Fair Leaching Grad Micritic Fos (Fuss) Chalk Sh Char-Gry Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Gry Fxln Poor Pin-Pt Ixln Micritic Grad OOM Por Fair Develop Poor Chalk Sh Char-Gry Fissil No Odor No Stn No Flor NS

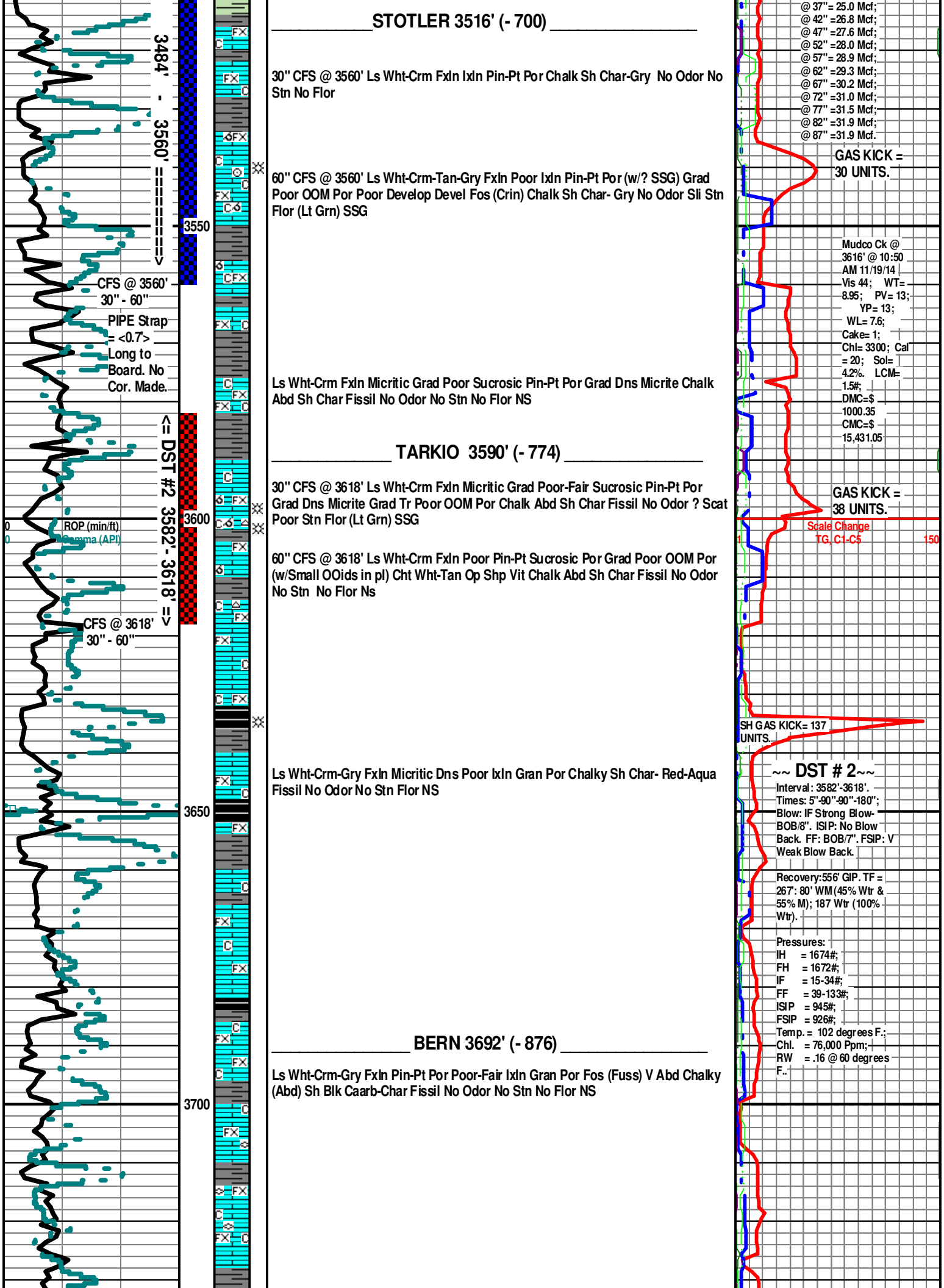
_____ ROOT SHALE 3486' (- 670) _____

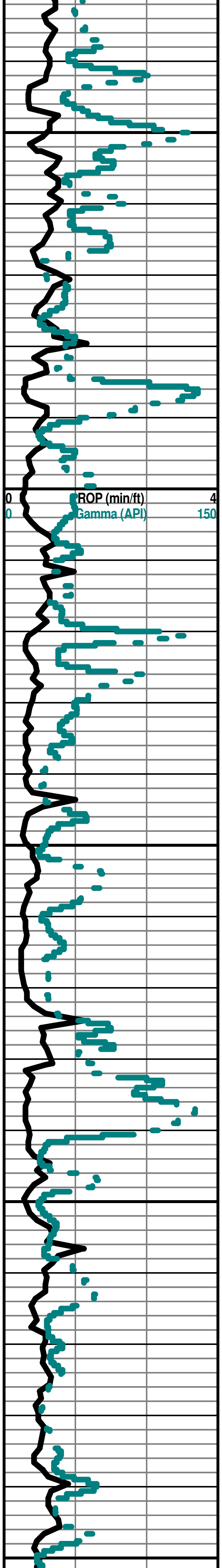
Sh Char-Gry Fissil Ls Crm-Gry Fxln Poor Pin-Pt Ixln Micritic Grad Poor OOM Por Poor Develop Chalk No Odor No Stn No Flor NS

Mudco Ck @ 3560' @ 11:50 AM 11/18/14
Vis 50; WT= 8.95; PV= 16; YP= 14; WL= 6.8; Cake= 1; Chl= 3300; Cal = 20; Sol= 4.2%. LCM= 2#;
DMC=$ 4824.00
CMC=$ 14,430.70

~~DST # 1 ~~
Interval: 3484'-3560'.
Times: 5"-90"- 90"-180";
Blow: IF Strong Blow-BOB/1". FF BOB Instant (w/GTS @ 4" (See Gauge Report Below).
Recovery: 197' GM (2% G & 98% M).
Pressures:
IH = 1623#;
FH = 1612#;
IF = 28-44#;
FF = 45-121#;
ISIP = 862#;
FSIP = 854#;
Temp = 102 degrees F.

Gas Flow: FF=
@ 15"= 8.89 Mcf;
@ 22"= 16.9 Mcf;
@ 27: = 20.3 Mcf;
@ 32"= 20.3 Mcf;


3484' - 3560' ==========>
CFS @ 3560' 30" - 60"
PIPE Strap = <0.7'> Long to Board. No Cor. Made.
<= DST #2 3582' - 3618' =>
ROP (min/ft)
Gamma (API)
CFS @ 3618' 30" - 60"
3550
3600
3650
3700
STOTLER 3516' (- 700)
30" CFS @ 3560' Ls Wht-Crm Fxln Ixln Pin-Pt Por Chalk Sh Char-Gry No Odor No Stn No Flor
60" CFS @ 3560' Ls Wht-Crm-Tan-Gry Fxln Poor Ixln Pin-Pt Por (w/? SSG) Grad Poor OOM Por Poor Develop Devel Fos (Crin) Chalk Sh Char- Gry No Odor Sli Stn Flor (Lt Grn) SSG
Ls Wht-Crm Fxln Micritic Grad Poor Sucrosic Pin-Pt Por Grad Dns Micrite Chalk Abd Sh Char Fissil No Odor No Stn No Flor NS
TARKIO 3590' (- 774)
30" CFS @ 3618' Ls Wht-Crm Fxln Micritic Grad Poor-Fair Sucrosic Pin-Pt Por Grad Dns Micrite Grad Tr Poor OOM Por Chalk Abd Sh Char Fissil No Odor ? Scat Poor Stn Flor (Lt Grn) SSG
60" CFS @ 3618' Ls Wht-Crm Fxln Poor Pin-Pt Sucrosic Por Grad Poor OOM Por (w/Small OOids in pl) Cht Wht-Tan Op Shp Vit Chalk Abd Sh Char Fissil No Odor No Stn No Flor Ns
Ls Wht-Crm-Gry Fxln Micritic Dns Poor Ixln Gran Por Chalky Sh Char- Red-Aqua Fissil No Odor No Stn Flor NS
BERN 3692' (- 876)
Ls Wht-Crm-Gry Fxln Pin-Pt Por Poor-Fair Ixln Gran Por Fos (Fuss) V Abd Chalky (Abd) Sh Blk Caarb-Char Fissil No Odor No Stn No Flor NS
@ 37"= 25.0 Mcf;
@ 42" =26.8 Mcf;
@ 47" =27.6 Mcf;
@ 52" =28.0 Mcf;
@ 57"= 28.9 Mcf;
@ 62" =29.3 Mcf;
@ 67" =30.2 Mcf;
@ 72" =31.0 Mcf;
@ 77" =31.5 Mcf;
@ 82" =31.9 Mcf;
@ 87" =31.9 Mcf.
GAS KICK = 30 UNITS.
Mudco Ck @ 3616' @ 10:50 AM 11/19/14
Vis 44; WT= 8.95; PV= 13; YP= 13; WL= 7.6; Cake= 1; Chl= 3300; Cal = 20; Sol= 4.2%. LCM= 1.5#; DMC=$ 1000.35 CMC=$ 15,431.05
GAS KICK = 38 UNITS.
Scale Change TG, C1-C5
1
150
SH GAS KICK= 137 UNITS.
~~ DST # 2~~
Interval: 3582'-3618'.
Times: 5"-90"-90"-180";
Blow: IF Strong Blow-BOB/8". ISIP: No Blow Back. FF: BOB/7". FSIP: V Weak Blow Back.
Recovery:556' GIP. TF = 267': 80' WM(45% Wtr & 55% M); 187 Wtr (100% Wtr).
Pressures:
IH = 1674#;
FH = 1672#;
IF = 15-34#;
FF = 39-133#;
ISIP = 945#;
FSIP = 926#;
Temp. = 102 degrees F.;
Chl. = 76,000 Ppm;
RW = .16 @ 60 degrees F..



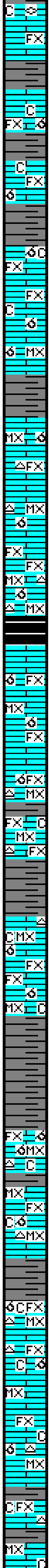
3750

3800

3850

3900

3950



Ls Crm-Tan Fxln Gran Poor Ixln Pin-Pt Por Grad Fair OOM Vug Por (Small-Med-Good Vug Leaching) Barren Chalky Sh Char-Grn Fissil No Odor No Stn Min Flor NS

Ls Wht-Crm-Tan Fxln-Microxln Gran Poor Ixln Pin-Pt Por Grad Fair OOM Vug Por (Small-Med Vug Leaching) Barren Chalky Sh Char-Grn Fissil No Odor No Stn Min Flor NS

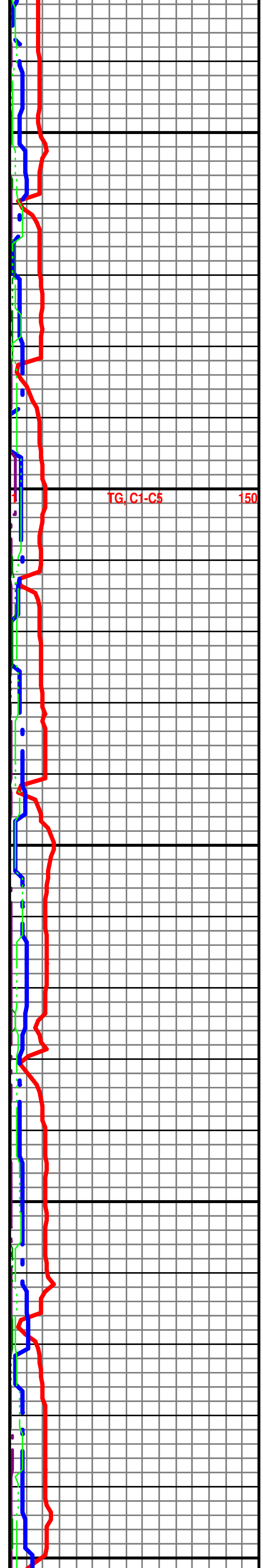
______________ TOPEKA 3790' (- 974) ________________

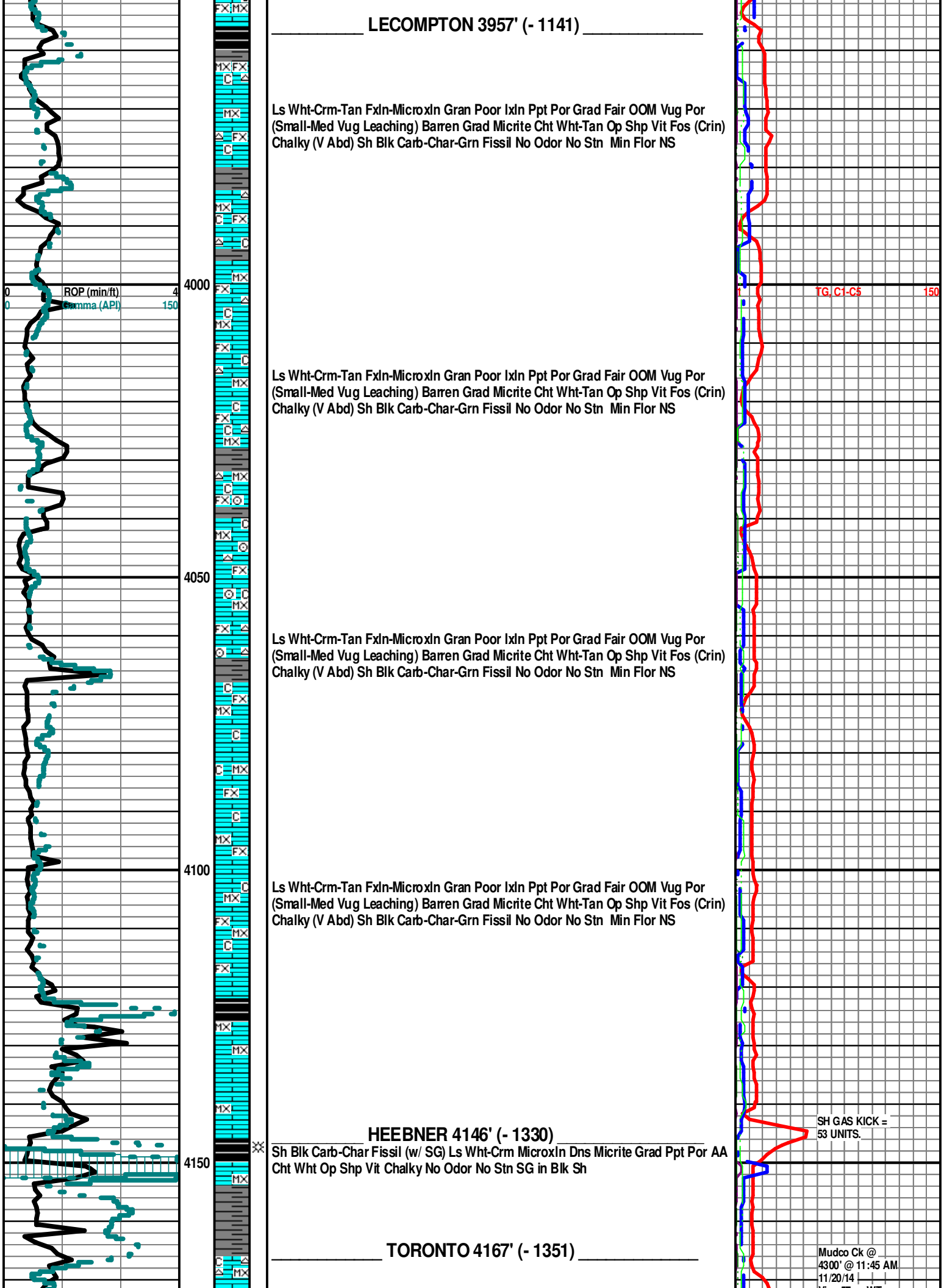
Ls Wht-Crm-Tan Fxln-Microxln Gran Poor Ixln Ppt Por Grad Fair OOM Vug Por (Small-Med Vug Leaching) Barren Cht Wht-Tan Op Shp Vit Chalky (V Abd) Sh Blk Carb-Char-Grn Fissil No Odor No Stn Min Flor NS

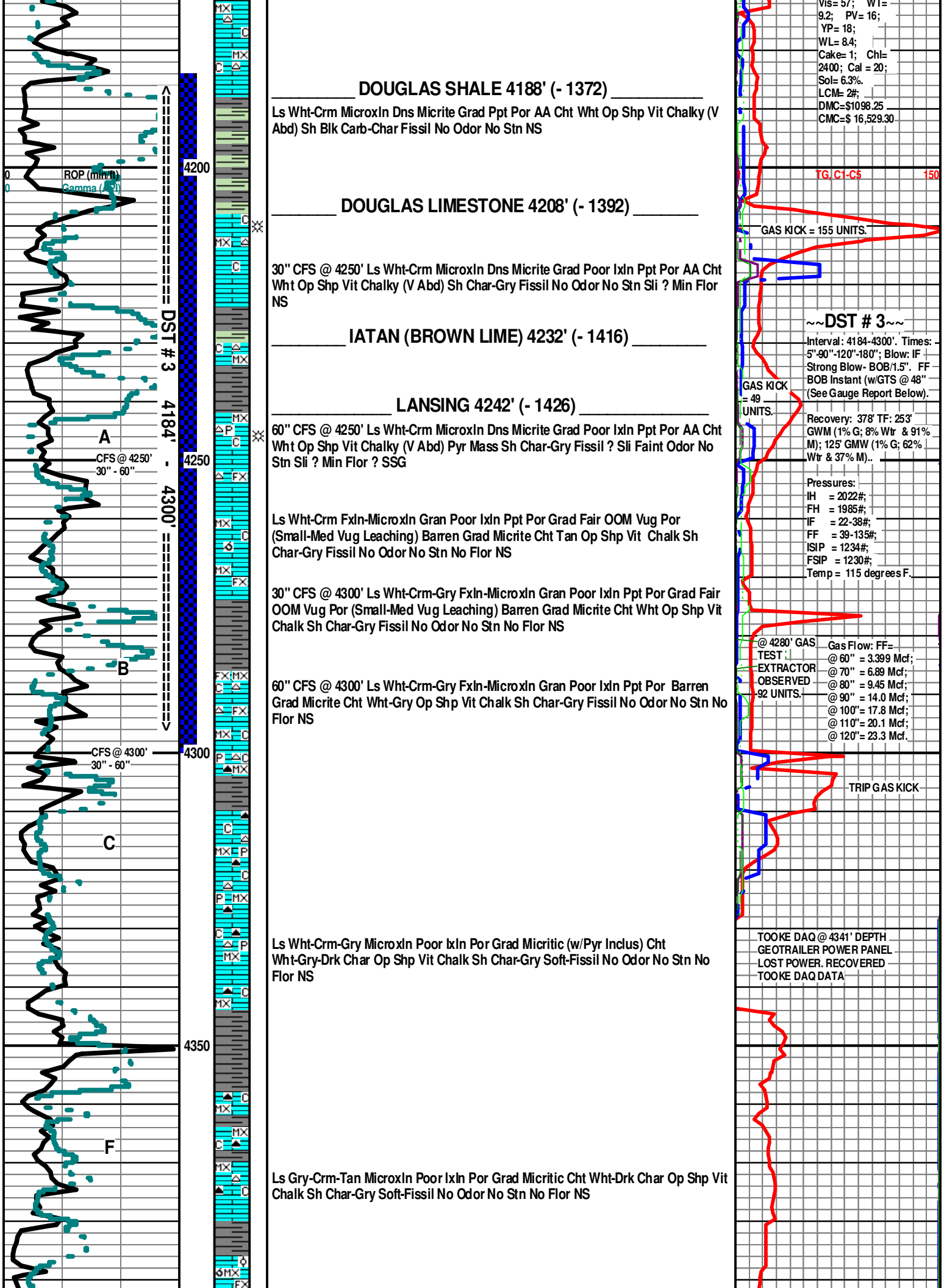
Ls Wht-Crm-Tan Fxln-Microxln Gran Poor Ixln Ppt Por Grad Fair OOM Vug Por (Small-Med Vug Leaching) Barren Grad Micrite Cht Wht-Tan Op Shp Vit Chalky (V Abd) Sh Blk Carb-Char-Grn Fissil No Odor No Stn Min Flor NS

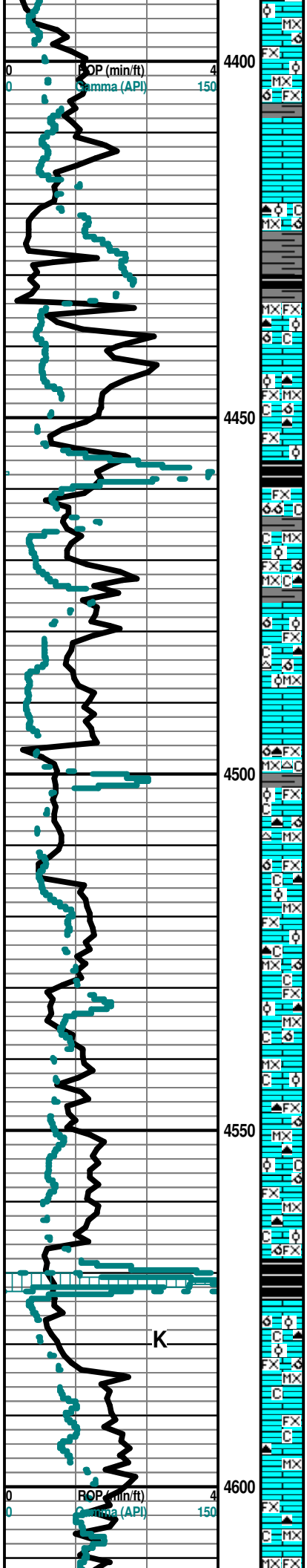
Ls Wht-Crm-Tan Fxln-Microxln Gran Poor Ixln Ppt Por Grad Fair OOM Vug Por (Small-Med Vug Leaching) Barren Grad Micrite Cht Wht-Tan Op Shp Vit Chalky (V Abd) Sh Blk Carb-Char-Grn Fissil No Odor No Stn Min Flor NS

Ls Wht-Crm-Tan Fxln-Microxln Gran Poor Ixln Ppt Por Grad Fair OOM Vug Por (Small-Med Vug Leaching) Barren Grad Micrite Cht Wht-Tan Op Shp Vit Chalky (V Abd) Sh Char-Grn Fissil No Odor No Stn Min Flor NS




LECOMPTON 3957' (- 1141)
Ls Wht-Crm-Tan Fxln-Microxln Gran Poor Ixln Ppt Por Grad Fair OOM Vug Por (Small-Med Vug Leaching) Barren Grad Micrite Cht Wht-Tan Op Shp Vit Fos (Crin) Chalky (V Abd) Sh Blk Carb-Char-Grn Fissil No Odor No Stn Min Flor NS
ROP (min/ft)
Gamma (API)
TG, C1-C5
4000
Ls Wht-Crm-Tan Fxln-Microxln Gran Poor Ixln Ppt Por Grad Fair OOM Vug Por (Small-Med Vug Leaching) Barren Grad Micrite Cht Wht-Tan Op Shp Vit Fos (Crin) Chalky (V Abd) Sh Blk Carb-Char-Grn Fissil No Odor No Stn Min Flor NS
4050
Ls Wht-Crm-Tan Fxln-Microxln Gran Poor Ixln Ppt Por Grad Fair OOM Vug Por (Small-Med Vug Leaching) Barren Grad Micrite Cht Wht-Tan Op Shp Vit Fos (Crin) Chalky (V Abd) Sh Blk Carb-Char-Grn Fissil No Odor No Stn Min Flor NS
4100
Ls Wht-Crm-Tan Fxln-Microxln Gran Poor Ixln Ppt Por Grad Fair OOM Vug Por (Small-Med Vug Leaching) Barren Grad Micrite Cht Wht-Tan Op Shp Vit Fos (Crin) Chalky (V Abd) Sh Blk Carb-Char-Grn Fissil No Odor No Stn Min Flor NS
SH GAS KICK = 53 UNITS.
HEEBNER 4146' (- 1330)
4150
Sh Blk Carb-Char Fissil (w/ SG) Ls Wht-Crm Microxln Dns Micrite Grad Ppt Por AA Cht Wht Op Shp Vit Chalky No Odor No Stn SG in Blk Sh
TORONTO 4167' (- 1351)
Mudco Ck @ 4300' @ 11:45 AM 11/20/14


ROP (min/ft)
Gamma (API)
DST # 3 4184' - 4300'
A
CFS @ 4250'
30" - 60"
B
CFS @ 4300'
30" - 60"
C
F
4200
4250
4300
4350
_____ DOUGLAS SHALE 4188' (- 1372) _____
Ls Wht-Crm Microxln Dns Micrite Grad Ppt Por AA Cht Wht Op Shp Vit Chalky (V Abd) Sh Blk Carb-Char Fissil No Odor No Stn NS
_____ DOUGLAS LIMESTONE 4208' (- 1392) _____
30" CFS @ 4250' Ls Wht-Crm Microxln Dns Micrite Grad Poor Ixln Ppt Por AA Cht Wht Op Shp Vit Chalky (V Abd) Sh Char-Gry Fissil No Odor No Stn Sli ? Min Flor NS
_____ IATAN (BROWN LIME) 4232' (- 1416) _____
_____ LANSING 4242' (- 1426) _____
60" CFS @ 4250' Ls Wht-Crm Microxln Dns Micrite Grad Poor Ixln Ppt Por AA Cht Wht Op Shp Vit Chalky (V Abd) Pyr Mass Sh Char-Gry Fissil ? Sli Faint Odor No Stn Sli ? Min Flor ? SSG
Ls Wht-Crm Fxln-Microxln Gran Poor Ixln Ppt Por Grad Fair OOM Vug Por (Small-Med Vug Leaching) Barren Grad Micrite Cht Tan Op Shp Vit Chalk Sh Char-Gry Fissil No Odor No Stn No Flor NS
30" CFS @ 4300' Ls Wht-Crm-Gry Fxln-Microxln Gran Poor Ixln Ppt Por Grad Fair OOM Vug Por (Small-Med Vug Leaching) Barren Grad Micrite Cht Wht Op Shp Vit Chalk Sh Char-Gry Fissil No Odor No Stn No Flor NS
60" CFS @ 4300' Ls Wht-Crm-Gry Fxln-Microxln Gran Poor Ixln Ppt Por Barren Grad Micrite Cht Wht-Gry Op Shp Vit Chalk Sh Char-Gry Fissil No Odor No Stn No Flor NS
Ls Wht-Crm-Gry Microxln Poor Ixln Por Grad Micritic (w/Pyr Inclus) Cht Wht-Gry-Drk Char Op Shp Vit Chalk Sh Char-Gry Soft-Fissil No Odor No Stn No Flor NS
Ls Gry-Crm-Tan Microxln Poor Ixln Por Grad Micritic Cht Wht-Drk Char Op Shp Vit Chalk Sh Char-Gry Soft-Fissil No Odor No Stn No Flor NS
Vis= 57; WT= 9.2; PV= 16; YP= 18; WL= 8.4; Cake= 1; Chl= 2400; Cal = 20; Sol= 6.3%. LCM= 2#; DMC=$1098.25 CMC=$ 16,529.30
TG, C1-C5
150
GAS KICK = 155 UNITS.
~~DST # 3~~
Interval: 4184-4300'. Times: 5"-90"-120"-180"; Blow: IF Strong Blow- BOB/1.5". FF BOB Instant (w/GTS @ 48" (See Gauge Report Below).
GAS KICK = 49 UNITS.
Recovery: 378' TF: 253' GWM (1% G; 8% Wtr & 91% M); 125' GMW (1% G; 62% Wtr & 37% M)..
Pressures:
IH = 2022#;
FH = 1985#;
IF = 22-38#;
FF = 39-135#;
ISIP = 1234#;
FSIP = 1230#;
Temp = 115 degrees F.
@ 4280' GAS TEST : EXTRACTOR OBSERVED 92 UNITS.
Gas Flow: FF=
@ 60" = 3.399 Mcf;
@ 70" = 6.89 Mcf;
@ 80" = 9.45 Mcf;
@ 90" = 14.0 Mcf;
@ 100"= 17.8 Mcf;
@ 110"= 20.1 Mcf;
@ 120"= 23.3 Mcf.
TRIP GAS KICK
TOOKE DAQ @ 4341' DEPTH GEOTRAILER POWER PANEL LOST POWER. RECOVERED TOOKE DAQ DATA



Ls Wht-Crm-Tan-Gry Microxln-Fxln Dns Micritic (w/Pyr Inclus) Grad Med-Good InterOOL/OOM (w/Med-Lg OOids & Indiv OOids in pl) Por Med-Good Leaching Med-Good Develop Barren Cht Drk Char Op Shp Vit Chalky Sh Blk Carb-Char-Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Tan-Wht Microxln-Fxln Dns Micritic Grad Med-Good Inter- OOL/OOM (w/Med-Lg OOids & Indiv OOids in pl) Por Med-Good Leaching Med-Good Develop Barren Cht Drk Char Op Shp Vit Chalky Sh Char-Gry Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Tan-Wht Microxln-Fxln Dns Micritic Grad Med-Good Inter- OOL/OOM (w/Med-Lg OOids & Indiv OOids in pl) Por Med-Good Leaching Med-Good Develop Barren Cht Wht-Drk Char Op Shp Vit Chalky Sh Char-Gry-Aqua Soft-Fissil No Odor No Flor No Stn NS

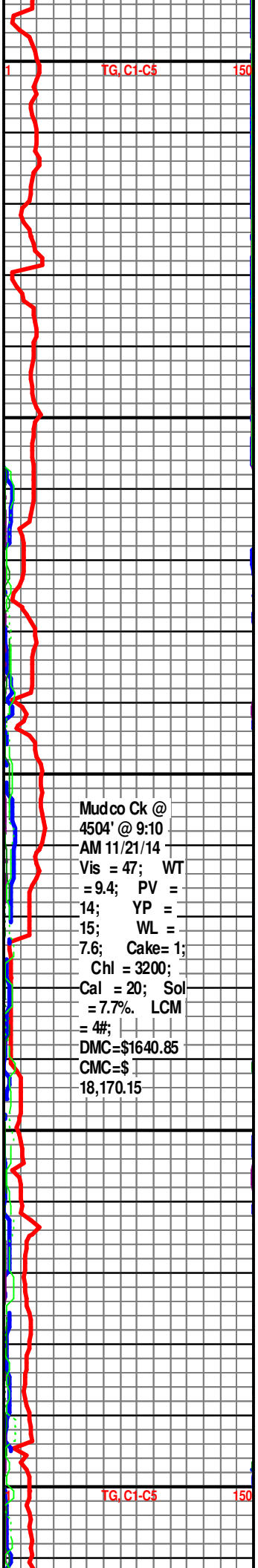
Mudco Ck @ 4504' @ 9:10 AM 11/21/14 Vis = 47; WT = 9.4; PV = 14; YP = 15; WL = 7.6; Cake= 1; Chl = 3200; Cal = 20; Sol = 7.7%. LCM = 4#; DMC=$1640.85 CMC=$ 18,170.15

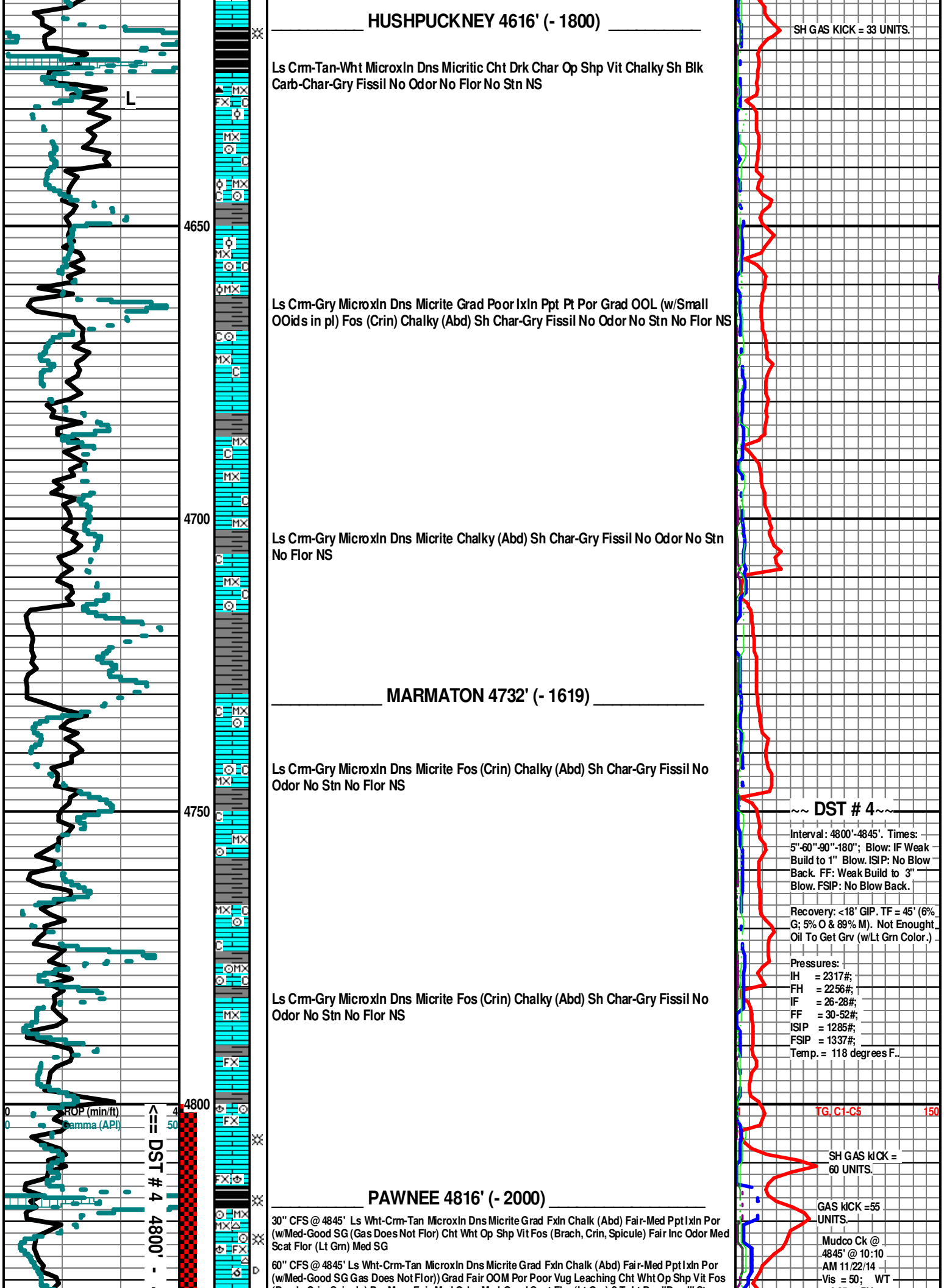
Ls Crm-Tan-Wht Microxln-Fxln Dns Micritic Grad Med-Good Inter- OOL/OOM (w/Med-Lg OOids & Indiv OOids in pl) Por Med-Good Leaching Med-Good Develop Barren Cht Drk Char Op Shp Vit Chalky Sh Char-Gry Soft-Fissil No Odor No Flor No Stn NS

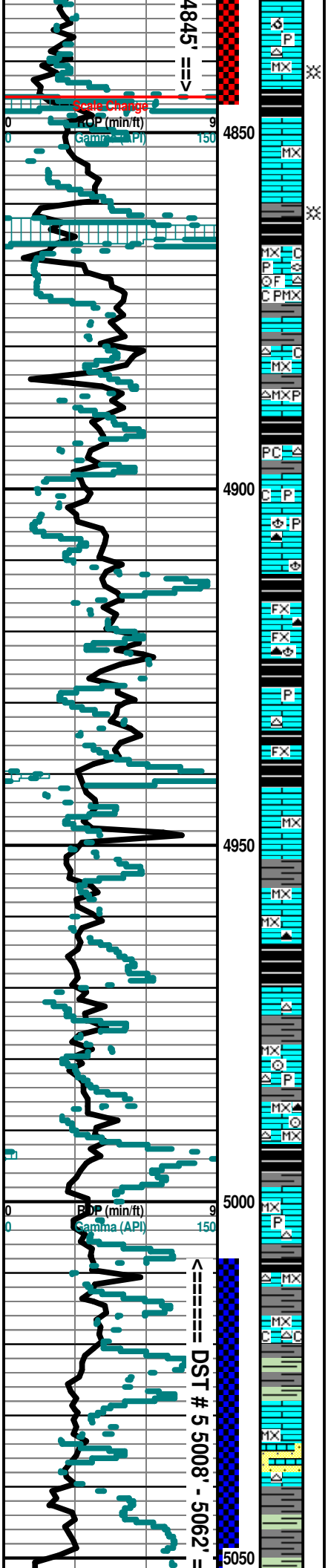
STARK 4570' (-1754)

KANSAS CITY "SWOPE" (K) 4576' (- 1760)

Ls Crm-Tan-Wht Microxln-Fxln Med-Good Inter OOL/OOM Por AA Med-Good Leaching Med-Good Develop Barren Dns Micritic Cht Drk Char Op Shp Vit Chalky Sh Char-Gry Soft-Fissil No Odor No Flor No Stn NS




HUSHPUCKNEY 4616' (- 1800)
Ls Crm-Tan-Wht Microxln Dns Micritic Cht Drk Char Op Shp Vit Chalky Sh Blk Carb-Char-Gry Fissil No Odor No Flor No Stn NS
SH GAS KICK = 33 UNITS.
4650
Ls Crm-Gry Microxln Dns Micrite Grad Poor Ixln Ppt Pt Por Grad OOL (w/Small OOids in pl) Fos (Crin) Chalky (Abd) Sh Char-Gry Fissil No Odor No Stn No Flor NS
4700
Ls Crm-Gry Microxln Dns Micrite Chalky (Abd) Sh Char-Gry Fissil No Odor No Stn No Flor NS
MARMATON 4732' (- 1619)
Ls Crm-Gry Microxln Dns Micrite Fos (Crin) Chalky (Abd) Sh Char-Gry Fissil No Odor No Stn No Flor NS
4750
~~ DST # 4~~
Interval: 4800'-4845'. Times: 5"-60"-90"-180"; Blow: IF Weak Build to 1" Blow. ISIP: No Blow Back. FF: Weak Build to 3" Blow. FSIP: No Blow Back.
Recovery: <18' GIP. TF = 45' (6% G; 5% O & 89% M). Not Enought Oil To Get Grv (w/Lt Grn Color.)
Pressures:
IH = 2317#;
FH = 2256#;
IF = 26-28#;
FF = 30-52#;
ISIP = 1285#;
FSIP = 1337#;
Temp. = 118 degrees F.
Ls Crm-Gry Microxln Dns Micrite Fos (Crin) Chalky (Abd) Sh Char-Gry Fissil No Odor No Stn No Flor NS
4800
0 ROP (min/ft) 4
0 Gamma (API) 50
TG, C1-C5 150
<== DST # 4 4800' -
SH GAS kICK = 60 UNITS.
PAWNEE 4816' (- 2000)
30" CFS @ 4845' Ls Wht-Crm-Tan Microxln Dns Micrite Grad Fxln Chalk (Abd) Fair-Med Ppt Ixln Por (w/Med-Good SG (Gas Does Not Flor) Cht Wht Op Shp Vit Fos (Brach, Crin, Spicule) Fair Inc Odor Med Scat Flor (Lt Grn) Med SG
GAS kICK =55 UNITS.
60" CFS @ 4845' Ls Wht-Crm-Tan Microxln Dns Micrite Grad Fxln Chalk (Abd) Fair-Med Ppt Ixln Por (w/Med-Good SG Gas Does Not Flor)) Grad Fair OOM Por Poor Vug Leaching Cht Wht Op Shp Vit Fos
Mudco Ck @ 4845' @ 10:10 AM 11/22/14
Vis = 50; WT



(Brach, Crin, Spicule) Pyr Mass Fair-Med Odor Med-Good Scat Flor (Lt Grn) ? Tr Lt Brn "Dead" Stn Med-Good SG

90" @ 4845' Sh Blk Carb Fissil (w/SSG) Ls Wht-Crm Microxln Dns Micrite (w/Pyr Inclus) Grad Fxln Poor-Fair Ixln Ppt Pt Por Grad Poor OOM Por Poor Vug Leaching Cht Wht Op Shp Vit Fos (Brach, Crin) Chalky ? Faint-No Odor Tr Scat Flor (Lt Grn) AA ? SG

Begin 10' Sample Examination @ 4850'.

Ls Wht-Crm-Tan Microxln Dns Micrite Grad Poor Ppt Pt Ixln Por Barren Cht Wht Op Shp Vit Chalk Sh Blk Carb-Char-Gry-Aqua Fissil No Odor No Stn No Flor NS

_____ CHEROKEE SHALE 4854' (- 2036) _____

Ls Crm-Tan Microxln Dns Micrite Barren Cht Tan (w/Fos (Fuss) & Pyr Inclus) Op Shp Vit Chalk Sh Blk Carb-Char-Gry-Aqua Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan Microxln Dns Micrite Grad Poor Ppt Pt Ixln Por Barren Cht Tan-Gry (w/Fos (Crin, Spicule) Inclus) Transl-Op Shp Vit Chalk Sh Blk Carb-Char-Gry (w/Pyr Inclus) Fissil No Odor No Stn No Flor NS

Sh Char-Gry Fissil Ls Wht-Crm Microxln Dns Micrite Cht Tan Op Shp Vit Fos (Porifera) Pyr Mass Chalk No Odor No Stn No Flor NS

Sh Blk Carb (w/Pyr Inclus)-Char-Gry Fissil Ls Crm-Gry Microxln Dns Micrite Chalk No Odor No Stn No Flor NS

Ls Tan-Gry Fxln Dns Micrite Grad Poor Ppt Pt Ixln Gran Por Barren Cht Drk Gry Op Shp Vit Chalk Fos (Brach) Pyr Mass Sh Char-Gry Fissil No Odor No Stn No Flor NS

___ SECOND CHEROKEE SHALE 4912' (- 2096) ___

Ls Crm-Tan Fxln Dns Micrite Grad Poor Ppt Pt Ixln Por Barren Cht Gry-Drk Gry Op Shp Vit Chalk Fos (Brach) Sh Blk Carb- Char-Gry Fissil No Odor No Stn No Flor NS

Ls Crm-Tan Fxln Dns Micrite Grad Poor Ppt Pt Ixln Por Barren Cht Tan Op Shp Vit Chalk Fos (Brach) Pyr Mass Sh Blk Carb-Char-Gry Fissil No Odor No Stn No Flor NS

_____ THIRD CHEROKEE SHALE 4938' (- 2122) ____

Ls Crm-Tan Fxln Dns Micrite Grad Poor Ppt Pt Ixln Por Barren Sh Blk Carb-Char-Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan Microxln Dns Micrite Grad Poor Ppt Pt Ixln Por Barren Sh Blk Carb-Char-Gry-Aqua Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan Microxln Dns Micrite Grad Poor Ppt Pt Ixln Por Barren Sh Char-Gry Fissil No Odor No Stn No Flor NS

_____ FOURTH CHEROKEE SHALE 4964' (- 2148) ____

Ls Wht-Crm-Tan Microxln Dns Micrite Grad Poor Ppt Pt Ixln Por Barren Cht Drk Brn (w/Small OOid Inclus) Sh Char-Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan Microxln Dns Micrite Barren Cht Wht-Tan Op Shp Vit Fos (Brach) Sh Blk Carb-Char-Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan Microxln Dns Micrite Grad Poor Ppt Pt Ixln Por Barren Cht Drk Gry (w Small OOid Inclus) Op Shp Vit Pyr Mass Fos (Crin) Sh Char-Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan Microxln Dns Micrite Barren Cht Wht-Tan Op Shp Vit Sh Blk Carb-Char-Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan Microxln Dns Micrite Grad Poor Ppt Pt Ixln Por Barren Cht Wht Op Shp Vit Chalk Sh Char-Gry-Tr/Drab Grn (w/Pyr Inclus) Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan Microxln Dns Micrite Grad Poor Ppt Pt Ixln Por Barren Cht Tan Op Shp Vit Chalk Sh Blk Carb-Char-Gry-Tr/Drab Grn-Aqua) Fissil No Odor No Stn No Flor NS

_____ MORROW SHALE 5022' (- 2206) _____

Ls Wht-Crm-Tan Microxln Dns Micrite Grad Poor Ppt Pt Ixln Por Barren Cht Crm-Tan Op Shp Vit Chalk Sh Char-Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan Microxln Dns Micrite Grad Poor Ppt Pt Ixln Por Barren Qtz Ss Brn- Gry FGrn Sub Ang-Rd-Well Rd WellSort Fair lGran Por Dns (w/Lt & Drk Brn Stn & SSG (Under Heat in Wtr) (No Glau) No Flor No Odor Cht Wht-Crm-Tan Op Shp Vit Sh Char-Gry Fissil Poor-Fair SSG Sh Char-Gry Fissil No Odor No Stn No Flor SSG

30" CFS @ 5062' Qtz Ss Brn-Gry FGrn Sub Ang-Rd-Well Rd Well Sort Fair-Med lGran Por (No Glau) Friable (w/ Lt & Drk Brn Stn (w/Carb Inclus) & Med-Good SG (Under Heat in Wtr) No Flor Med-Good Odor Ls Wht Fxln (w/Fos (Porifera) Inclus (w/ Lt Brn Stn & Med SG) Cht Wht Op Shp Vit Sh Char-Gry

= 9.35; PV = 16; YP = 17; WL = 8.0; Cake= 1; Chl = 2200; Cal = 20; Sol = 7.0%. LCM = 2#;
DMC=$1763.30
CMC=$ 19,933.45

Mudco Ck @ 5062' @ 7:25 AM 11/23/14
Vis = 56; WT = 9.1; PV = 16; YP = 18; WL = 9.2; Cake= 1; Chl = 3600; Cal = 20; Sol = 5.5%. LCM = 3.5#;
DMC=$1158.00
CMC=$ 21,091.45

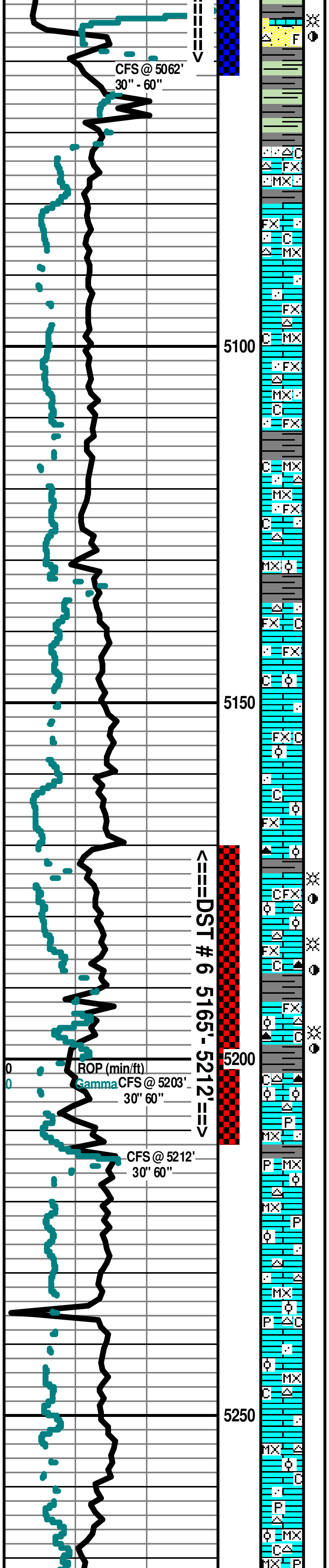
~~ DST # 5 ~~

Interval : 5008'-5062".
Times: 5"-60"-45"-90";
Blow: IF Weak Build < 1"
Blow. ISIP: No Blow Back.
FF: Weak Build Died/11".
Flushed Tool & Had Good Surge & Blow Died (No Help). FSIP: No Blow Back.

Recovery: TF = 20'
VSGOSM (w/Few Spots Oil & Gassy Bubbles).

Pressures:
IH = 2377#;
FH = 2346#;
IF = 12-17#;
FF = 18-34#;
ISIP = 97#;
FSIP = 81#;
Temp. = 120 degrees F..

GAS KICK =



Fissil Med-Good SG

LOWER CHESTER SAND 5044' (- 2228)

60" CFS @ 5062' Qtz Ss Brn-Gry FGrn Ang-Sub Ang-Rd Well Sort Fair-Med IGran Por (Tr CaCO3 Matrix) (No Glau) Friable (w/GSG & SFO (w/ Lt & Drk Brn Stn (w/Carb Inclus) & Med-Good SG (Under Heat in Wtr) No Flor Med-Good Odor Ls Wht Fxln (w/Fos (Porifera) Inclus (w/ Lt Brn Stn & Med SG) Cht Wht-Op Shp Vit Sh Char-Drk Gry Fissil Med-Good SG & SFO

MISSISSIPPIAN "STE. GEN" 5072' (- 2256)

Ls Crm-Tan-Wht-Sli Grn Microxln-Fxin Dns Micrite Grad V FGrn Poor Ppt Pt Ixln Gran Por (w/Qtz Ss Clear Ang-Sub Ang (vfl 62-88 Microns) Inclus < 5% in Ls Matrix) "Sandy Gran Ls" Poor IGran Por Cht Amber-Gry-Tan Op Shp Vit Chalk Tr Qtz Ss AA (w/ Hvy Gillsonitic Residue & SSG/SSO) Chalk Sh Char-Gry/Grn Fissil No Odor No Flor No Stn NS

Ls Crm-Tan-Wht Microxln-Fxin Dns Micrite Grad V FGrn Poor Ppt Pt Ixln Gran Por (w/Qtz Ss Clear Ang-Sub Ang (vfl 62-88 Microns) Inclus < 5% in Ls Matrix) "Sandy Gran Ls" Poor IGran Por Cht Amber-Gry-Tan Op Shp Vit Chalk Sh Char-Gry/Grn Fissil No Odor No Flor No Stn NS

Ls Crm-Tan-Wht Microxln-Fxin Dns Micrite Grad V FGrn Poor Ppt Pt Ixln Gran Por (w/Qtz Ss Clear Ang-Sub Ang (vfl 62-88 Microns) Inclus < 5% in Ls Matrix) "Sandy Gran Ls" Poor IGran Por Cht Amber-Gry-Tan Op Shp Vit Chalk Sh Char-Gry/Grn Fissil No Odor No Flor No Stn NS

Ls Crm-Tan-Wht Microxln-Fxin Dns Micrite Grad V FGrn Poor Ppt Pt Ixln Gran Por (w/Qtz Ss Clear Ang-Sub Ang (vfl 62-88 Microns) Inclus < 5% in Ls Matrix) "Sandy Gran Ls" Poor IGran Por Cht Amber-Gry-Tan Op Shp Vit Chalk Sh Char-Gry/Grn Fissil No Odor No Flor No Stn NS

Ls Crm-Tan-Wht Microxln-Fxin Dns Micrite Grad V FGrn Poor Ppt Pt Ixln Gran Por (w/Qtz Ss Clear Ang-Sub Ang (vfl 62-88 Microns) Inclus < 5% in Ls Matrix) "Sandy Gran Ls" Poor IGran Por Cht Amber-Gry-Tan Op Shp Vit Chalk Sh Char-Gry/Grn (Inc) Fissil No Odor No Flor No Stn NS

Ls Crm-Wht Microxln-Fxin Dns Micrite Grad FGrn Poor Ppt Pt Ixln Gran Por (w/Qtz Ss Clear Ang-Sub Ang (vfl 62-88 Microns) Inclus < 5% in Ls Matrix) "Sandy Gran Ls" Poor IGran Por Cht Amber-Gry-Tan Op Shp Vit Chalk Sh Char-Gry/Grn Fissil No Odor No Flor No Stn NS

Ls Crm-Wht Microxln-Fxin Dns Micrite Grad FGrn Poor Ppt Pt Ixln Gran Por (w/Qtz Ss Clear Ang-Sub Ang (vfl 62-88 Microns) Inclus < 5% in Ls Matrix) "Sandy Gran Ls" Poor IGran Por (Grn Size Inc w/Lg Tan OOid (1 Pc)) Cht Amber-Gry-Tan Op Shp Vit Chalk Sh Char-Gry/Grn Fissil No Odor No Flor No Stn NS

Ls Crm-Wht Microxln-Fxin Dns Micrite Grad FGrn Poor Ppt Pt Ixln Gran Por (w/Qtz Ss Clear Ang-Sub Ang Inclus App. 5% in Ls Matrix) "Sandy Gran Ls" Poor IGran Por (Grn Size Inc w/Lg Tan OOid (1 Pc)) Cht Amber-Gry-Tan Op Shp Vit Chalk Sh Char-Gry/Grn Fissil No Odor No Flor No Stn NS

Ls Crm-Wht Microxln-Fxin Dns Micrite Grad FGrn Poor Ppt Pt Ixln Gran Por (w/Qtz Ss Clear Ang-Sub Ang (vfl 62-88 Microns) Inclus < 5% in Ls Matrix) "Sandy Gran Ls" Poor IGran Por (Grn Size Inc w/Lg Tan OOid (1 Pc)) Cht Amber-Gry-Tan Op Shp Vit Chalk Sh Char-Gry/Grn Fissil No Odor No Flor No Stn NS

Ls Crm-Wht Microxln-Fxin Dns Micrite Grad FGrn Poor Ppt Pt Ixln Gran Por (w/Qtz Ss Clear Ang-Sub Ang (vfl 62-88 Microns) Inclus < 5% in Ls Matrix) "Sandy Gran Ls" Poor IGran Por (Grn Size Inc w/Lg Tan OOid (1 Pc)) Cht Amber-Gry-Tan Op Shp Vit Chalk Sh Char-Gry/Grn Fissil No Odor No Flor No Stn NS

MISSISSIPPIAN "ST. LOUIS" 5174' (- 2358)

Ls Wht Mostly Microxln-Fxln Dns Micrite Grad Fair-Med OOL (w/Med-Sized OOids) Por (6 Pcs-w/SG & SFO Sli-Fair Ll-Lt-Drk Brn Stn) Friable Cht Wht-Gry-Peach/Org Translu-Op Shp Vit Chalk (V Abd) No Odor No Flor SSG & SSO

30" CFS @ 5203' Ls Wht Microxln-Fxln Dns Micrite Grad Fair-Med-Good OOL Por (w/Med-Lg OOids in pl w/MSG & MSFO Fair-Med Ll-Lt-Drk BrnStn on OOid Edges) V Friable Cht Wht-Gry-Peach/Org Translu-Op Shp Vit Chalk (V Abd) Strong Odor Med-Good Lt Brn Stn Med-Good InterOOL Por (Good Leaching Around OOids) GSG & GSO

60" CFS @ 5203' Ls Wht Microxln-Fxln Dns Micrite Grad Fair-Med-Good OOL Por (w/Med-Lg OOids (w/? Pyr Inclus in pl & w/MSG & MSFO Fair-Med Ll-Lt-Drk BrnStn on OOid Edges) V Friable Cht Wht-Gry-Peach/Org Translu-Op Shp Vit Chalk (V Abd) Strong Odor Med-Good Lt Brn Stn Med-Good InterOOL Por (Good Leaching Around OOids) GSG & GSO

60" CFS @ 5212' Ls Wht Microxln-Fxln Dns Micrite Grad Tr Only Fair OOL Por (w/Tr OOids in pl) Grad Microxln Dns Micrite Pyr Mass Chalk (V Abd) Cht Wht-Gry Translu-Op Shp Vit Chalk ? Faint Odor ? VSSG & VSSO

Ls Wht Microxln Dns Micrite Grad Poor OOL Por (w/Tr V Small OOids in pl) Tr "Sandy OOL Ls" (w/Qtz Ss Clear Ang-Sub Ang Grains Inclus (vfl 62-88 Microns) Inclus < 10% (? Ste. Gen Sluff)) Pyr Mass Chalk Cht Gry Op Shp Vit Chalk No Odor No Stn No Flor NS

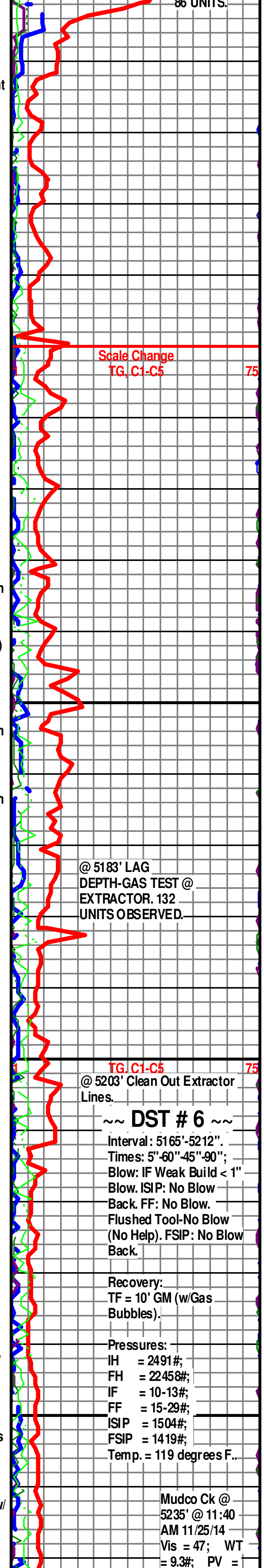
Ls Wht Microxln Dns Micrite Grad Poor OOL Por (w/Tr V Small OOids in pl) Tr "Sandy OOL Ls" (w/Qtz Ss Clear Ang-Sub Ang Grains Inclus (vfl 62-88 Microns) Inclus < 10% AA) Pyr Mass Chalk Cht Gry Op Shp Vit Chalk No Odor No Stn No Flor NS

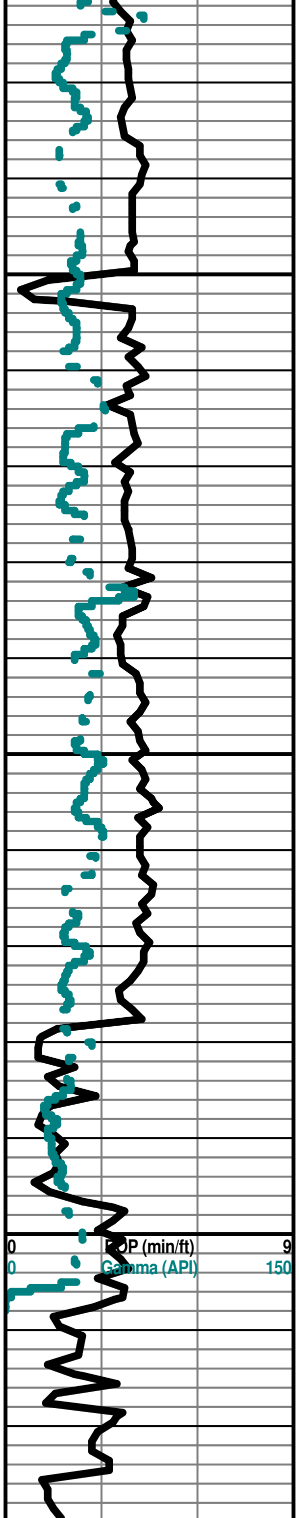
Ls Wht Microxln Dns Micrite Grad Poor OOL Por (w/Tr V Small OOids in pl) Tr "Sandy OOL Ls" (w/Qtz Ss Clear Ang-Sub Ang Grains Inclus < 5% (vfl 62-88 Microns) < 10% AA) Pyr Mass Chalk Cht Wht-Tan-Gry-Peach Translu-Op Shp Vit Chalk No Odor No Stn No Flor NS

Ls Wht Microxln Dns Mostly Micrite Grad Poor OOL Por (w/Tr V Small OOids in pl) Tr "Sandy OOL Ls" (w/Qtz Ss Clear Ang-Sub Ang Grains Inclus (vfl 62-88 Microns) < 5% AA) Pyr Mass Chalk Cht Wht-Tan-Gry-Peach Translu-Op Shp Vit Chalk No Odor No Stn No Flor NS

Ls Wht Microxln Dns Micrite Grad Poor OOL Por (w/Tr V Small OOids in pl) "Sandy OOL Ls" (w/ Qtz Ss Clear Ang-Sub Ang Grains (vfl 62-88 Microns) Inclus < 5% AA) Pyr Mass Chalk Cht Wht-Tan-Gry-Peach Translu-Op Shp Vit Chalk No Odor No Stn No Flor NS

Ls Wht Microxln Dns Mostly Micrite Grad Poor OOL Por (w/Tr V Small OOids in pl) "Sandy OOL Ls" (w/ Qtz Ss Clear Ang-Sub Ang Grains Inclus (vfl 62-88 Microns) Inclus < 5% AA) Pyr Mass Chalk Cht Wht-Tan-Gry-Peach Translu-Op Shp Vit Chalk No Odor No Stn No Flor NS





5300

5350

5400

5450

Ls Wht Microxln Dns Mostly Micrite Grad Poor OOL Por (w/Tr V Small OOids in pl) Tr "Sandy OOL Ls" (w/Qtz Ss Clear Ang-Sub Ang Grains Inclus (vfl 62-88 Microns) Inclus <5% AA) Pyr Mass Chalk Cht Wht-Gry Translu-Op Shp Vit Chalk No Odor No Stn No Flor NS

Ls Crm-Tan Microxln Dns Mostly Micrite Grad Tr Poor OOL Por (w/Tr V Small OOids in pl w/2 Pcs w/Drk Blk "Dead" Stn/OOid Edges) NSG & NSFO "Sandy OOL Ls" (w/Qtz Ss Ang-Sub Ang Grains Inclus (vfl 62-88 Microns) Inclus < 5% AA) Pyr Mass Chalk Cht Wht-Tan-Gry Op Shp Vit Chalk No Odor No Stn No Flor NS

Ls Crm-Tan Microxln Dns Mostly Micrite Grad Tr Poor OOL Por (w/Tr V Small OOids in pl "Sandy OOL Ls" Pyr Mass Chalk Cht Wht-Gry Op Shp Vit Chalk No Odor No Stn No Flor NS

Ls Crm-Tan Microxln Dns Mostly Micrite (w/Pyr Inclus Grad Tr Poor Vug OOL Por (w/Tr Lg OOM Por w/1 Pc w/Drk Blk "Dead" Stn/in OOM) NSG & NSFO Pyr Mass Chalk No Odor No Stn No Flor NS

Ls Crm-Tan Microxln Dns Mostly Micrite (w/Pyr Inclus) Cht Wht Op Shp Vit Chalk Inc No Odor No Stn No Flor NS

Ls Crm-Tan Microxln Dns Mostly Micrite (w/Pyr Inclus) Cht Wht Op Shp Vit Chalk Inc No Odor No Stn No Flor NS

Ls Crm-Tan Microxln Dns Mostly Micrite (w/Pyr Inclus) Cht Wht Op Shp Vit Chalk Inc No Odor No Stn No Flor NS

Ls Crm-Tan Microxln Dns Mostly Micrite (w/Pyr Inclus) Cht Wht Op Shp Vit Chalk Inc No Odor No Stn No Flor NS

Ls Crm-Tan Microxln Dns Mostly Micrite (w/Pyr Inclus) Cht Wht Op Shp Vit Chalk Inc No Odor No Stn No Flor NS

Ls/Dolo Crm-Tan-Gry Fxln Dns Micrite Grad Pin-Ppt lxln Por Tr Poor OOL Por (w/Tr V Small OOids in pl "Sandy OOL Ls" (w/Qtz Ss Ang-Sub Ang Grains Inclus (vfl 62-88 Microns) Inclus < 5% AA) Cht Wht-Tan-Gry Op Shp Vit Chalk No Odor No Stn No Flor NS

Dolo/Ls Fxln Dns Micrite Grad Poor Pin-PPt OOL Por Poor Leaching AA Cht Tan Op Shp Vit Chalky No Odor No Stn No Flor NS

_ MISSISSIPPIAN SALEM (SPERGEN) Ø 5378' (- 2562) _

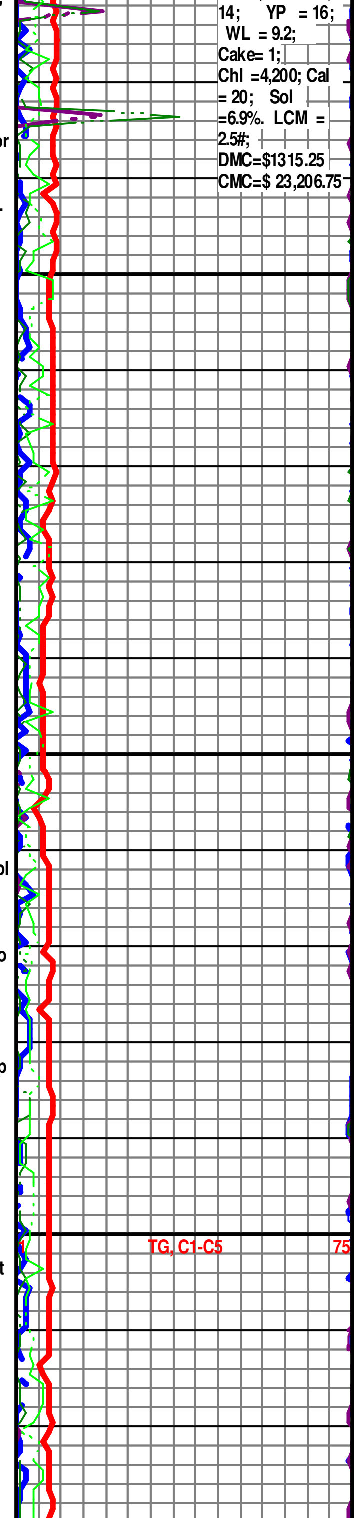
Dolo/Ls Crm-Tan-Lt Brn Fxln Fair-Med Pin-Ppt lxln Por Grad Fair lxln Por Barren Cht Wht- Tan Op Shp Vit Chalk No Odor No Stn No Flor NS

Dolo Brn-Tan-Crm Microxln-Fxln Med-Good Pin-Ppt lxln Por (Tr Vug Dissolu) Grad Fair lxln Por Barren Grad Poor OOL Por (w/Small-Med OOids in pl) Poor Leaching Cht Wht-Tan(Banded w/? Fos Inclus) Op Shp Vit Chalk No Odor No Stn No Flor NS

Dolo Brn-Tan-Crm Fxln Fair-Med Pin-Ppt lxln Por Grad Fair lxln Por Barren Grad Poor Sucrosic Ppt Pt Por Barren Cht Wht Op Shp Vit Chalk No Odor No Stn No Flor NS

30" CFS @ 5430' Dolo Brn-Tan-Crm Fxln Fair-Med Pin-Ppt lxln Por Grad Fair lxln Por Barren Grad Poor Sucrosic Ppt Pt Por Barren Cht Wht Op Shp Vit Chalk No Odor No Stn No Flor NS

60" CFS @ 5430' Dolo Brn-Tan-Crm Fxln Fair-Med Pin-Ppt lxln Por Grad Fair lxln Por Barren Grad Poor Sucrosic Ppt Pt Por Barren Cht Wht Op Shp Vit Chalk No Odor No Stn No Flor NS

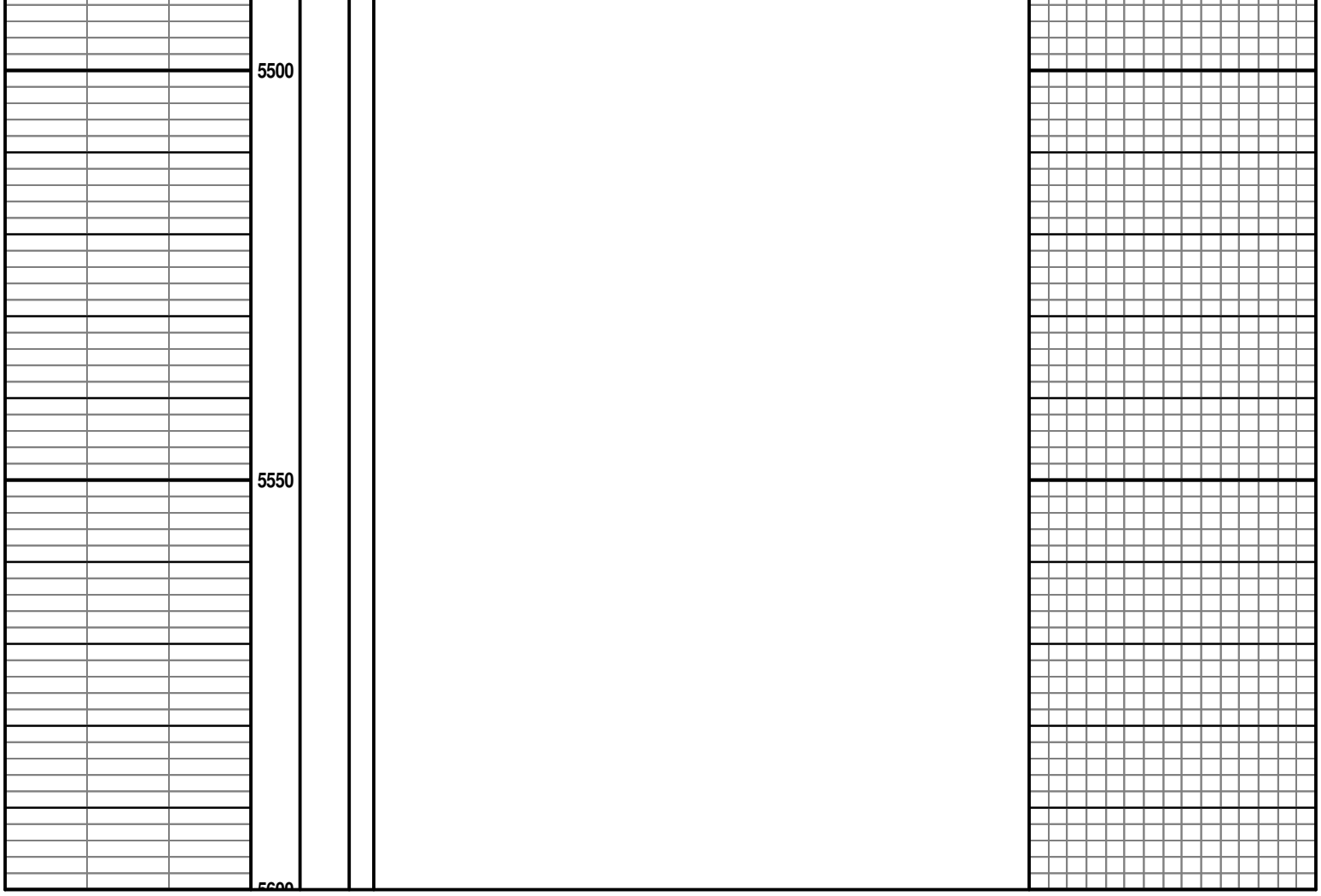


R.T.D. = 5430' (- 2614)

L.T.D. = 5434' (-2618)

Electric Logs Run: By Pioneer (LogTech) Logging:
Dual Induction; Compensated Density-Neutron; Sonic;
Microresistivity & Cased Hole Gamma Ray-Nutron Logs.

Geologist Left Location At: : AM on 11/26/2014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