



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

Well Name: # 1 DURLER-SCHMIDT  
Location: 150' N. & 40' W. - NW - NW - NE OF SEC. 14 - 26 S. - 23 W.  
License Number: A.P.I. # 15-057-20,851-00-00  
Spud Date: 10/22/2012  
Surface Coordinates: SPOT: 2350' FEL & 180' FNL

Region: FORD CO., KS.  
Drilling Completed: 11/03/2012

Bottom Hole  
Coordinates:  
Ground Elevation (ft): 2428'                      K.B. Elevation (ft): 2439'  
Logged Interval (ft): SURF. CSGTo: 5133'      Total Depth (ft): 5133'  
Formation: MISSISSIPPIAN SALEM (SPERGEN)  
Type of Drilling Fluid: CHEMICAL/ POLYMER/ GEL

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**OPERATOR**

Company: RITCHIE EXPLORATION, INC.  
Address: P.O. BOX 783188  
WICHITA, KANSAS 67278-3188

**GEOLOGIST**

Name: DAVID P. WILLIAMS, P.G.  
Company: DW Energy, LLC (DWE)  
Address: 312 North Broadview Street  
Wichita, Kansas 67208

**CASING & DEVIATION**

Ran 8 jts new 24# 8-5/8" surface casing. Tally at 337', set at 350'. Cemented with 225 sacks common, 3% cc, 2% gel. Cement did circulate. Plug down at 10:00 A.M. on 10/23/12.

Deviation Survey's Taken: @ 355' - 3/4 degree; @ 1503' = 3/4 degree; @ 2003' = 1 degree; @ 2501' = 1/2 degree; @ 3001' = 1 degree; @ 3500' = Miss-Run; @ 4001' = 1 degree; @ 4870' = 1 degree; @ 4990' = 1 1/2 degrees; @ 5130' = 1 degree.

## DSTs

**DST #1 4664'-4740'.** Times: 30"-45"-45"-60". Blow: IF= Weak Blow Build / 1/2"; FF= Weak Surface Blow. Recovery: 15' M (100% M). Tool Spl. Spotty Oil Show:(100% M). Pressures: IH = 2263#; FH = 2261#; IF= 8-13#; FF= 11-11#; ISIP = 31#; FSIP= 20#; Temp.= 115 degrees F.

**DST # 2: 4805'-4870'.** Times: 30"-45"-120"-120". Blow: IF=Strong BOB/Inst. GTS'/10" (See Gas Gauge Rept. Below).

Recovery: 140' M: (Tool Spl. = 1% O; 99% M), Pressures:

IH = 2302#; FH = 2302#; IF = 347-240#; FF = 291-156#; ISIP = 1320#; FSIP = 1444#; Temp = 122 degrees F..

**DST #2 Gas Gauges:** IF @ 10"=2.675 MMcf; @ 15"= 2.075 MMcf; @ 20"= 1.824 MMcf; @ 25"= 1.694 MMcf; @ 30"= 1.490 MMcf; FF@ 10"=1.529 MMcf; @ 20"= 1.421 MMcf; @ 30"= 1.270 MMcf; @ 40"= 1.146 MMcf; @ 50"= 1.064 MMcf; @ 60" = 1.023 MMcf; @ 70" = 980 Mcf; @ 80" = 893 Mcf; @ 90" = 893 Mcf; @ 100"= 847 Mcf; @ 110"= 847 Mcf; @ 120"= 847 Mcf. Gas Does Burn.

**DST # 3 4904'-4990'.** Times: 30"-45"-30"-60". Blow: IF = Weak Build to BOB/ 5"; FF= BOB/6.5". Recovery: TF=1405': 90' HWCM (46% Wtr, 49% M); 1220' MCW (73% Wtr; 27% M); 95' SMCW (97% Wtr, 3% M).

Pressures: IH = 2334#; FH= 2314#; IF=36-388#; FF= 392-649#; ISIP=1490#; FSIP=1487#; Temp=127 degrees F; Chl = 58,000 Ppm; RW= .20 @ 76 degrees F.; PH=7.0.


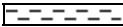

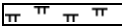
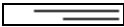
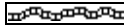

















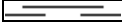

## Comments

After review of all of the pertinent geological and structural data, drill test test recoveries and reservoir pressures, including two samples presented for gas analysis that indicated low BTU non-commercial gas aswas recovered from DST #2, and electric logs analyses it was recommended by all parties to plug and abandoned this test well as a non- commercial dry hole..

Respectfully submitted,

David P. Williams, P. G.

## ROCK TYPES

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

### 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
  - Gryslt
  - Grysh
  - Gyp
  - Lms
  - 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

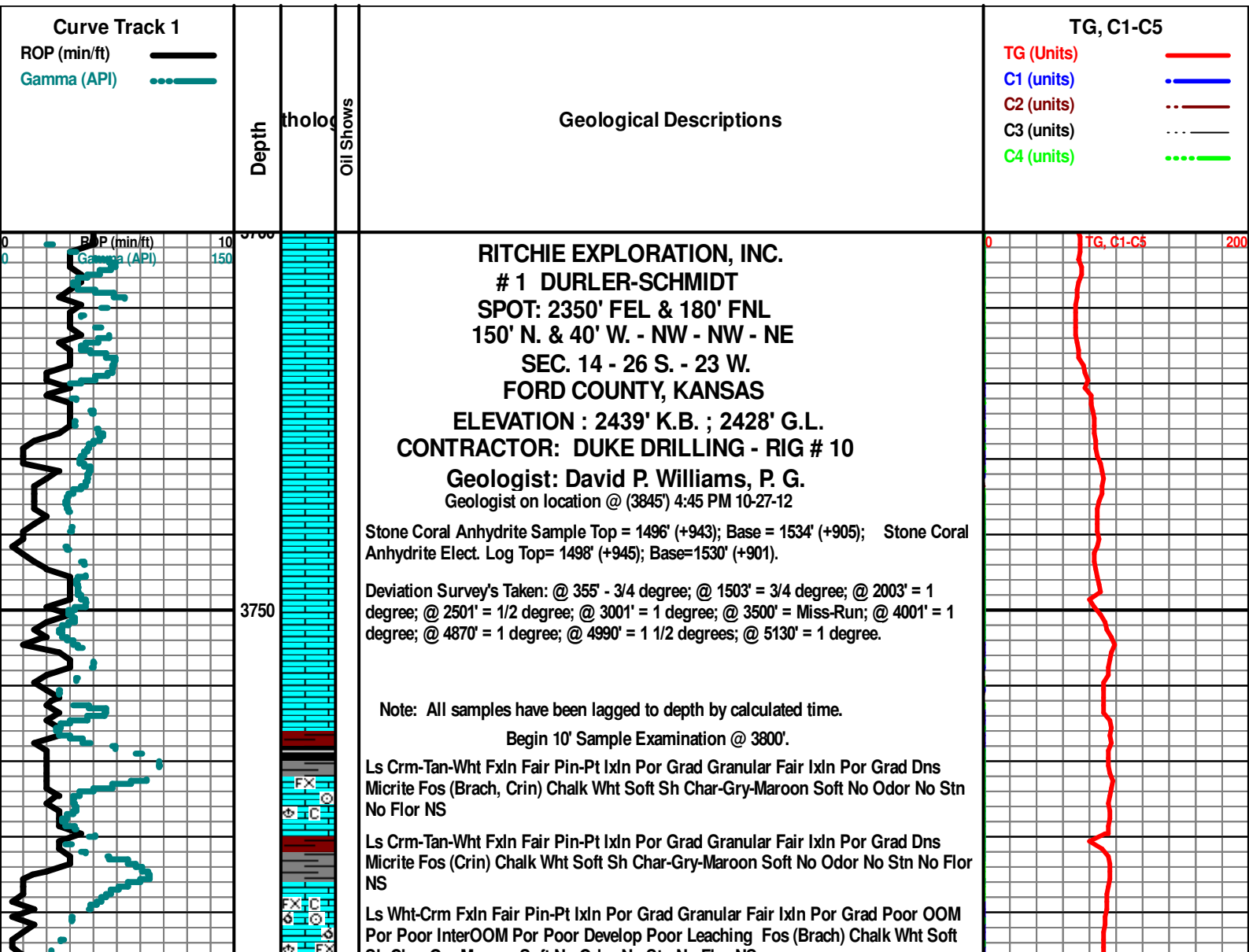
- Even
- Spotted
- Ques
- Dead

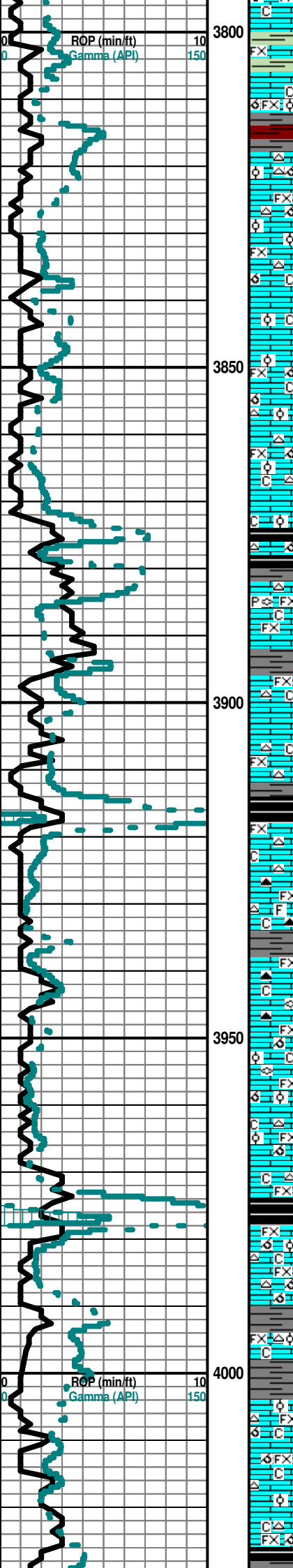
- Dst\_alt
- Dst

- EVENT**
- Rft
  - Sidewall

- OIL SHOW**
- Gas show

- INTERVAL**
- Straddle test tail pipe
  - Core





Sh Crm-Tan-Maroon Soft No Stn No Flor NS

Ls Crm-Tan-Wht Fxln Fair Pin-Pt Ixln Por Grad Dns Micrite Chalk Wht Soft Sh  
Grn-Char-Gry-Maroon Soft No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Fair Pin-Pt Ixln Por Grad Poor OOL/OOM Por (w/OOL in pl) Poor  
InterOOM Por Poor Develop Poor Leaching Cht Tan Op Shp Vit Chalk Wht Soft Sh  
Char-Gry-Maroon Soft No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Fair Pin-Pt Ixln Por Grad Poor OOL/OOM Por (w/OOL in pl) Poor  
InterOOM/OOM Por Poor Develop Poor Leaching Cht Gry Op Shp Vit Chalk Wht  
Soft Sh Char-Gry-Maroon Soft No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Fair Pin-Pt Ixln Por Grad Poor OOL/OOM Por (w/OOL in pl) Poor  
InterOOM/OOM Por Poor Develop Poor Leaching Cht Wht-Gry Op Shp Vit Chalk Wht  
Soft Sh Char-Gry-Maroon Soft No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Fair Pin-Pt Ixln Por Grad Poor OOL/OOM Por (w/OOL in pl) Poor InterOOM/OOM Por  
Poor Develop Poor Leaching Cht Wht-Gry Op Shp Vit Chalk Wht Soft Sh Char-Gry-Maroon Soft No  
Odor No Stn No Flor NS

Ls Wht-Crm Fxln Fair Pin-Pt Ixln Por Grad Poor OOL/OOM Por (w/OOL in pl) Poor InterOOM/OOM Por  
Poor Develop Poor Leaching Fos (Crim) Cht Wht-Gry Op Shp Vit Chalk Wht Soft Sh Blk  
Carb-Char-Gry-Maroon Soft No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Fair Pin-Pt Ixln Por Tr OOL/OOM Por AA Dec Grad Dns Micrite Fos (Crim) Cht  
Wht-Gry Op Shp Vit Chalk Wht Soft Sh Blk Carb-Char-Gry-Maroon Soft No Odor No Stn No Flor NS

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

Ls Wht-Crm Fxln Fair Pin-Pt Ixln Por Grad Dns Micrite Cht Drk Amber Op Shp Vit  
Chalk Wht Soft Sh Char-Gry-Maroon Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Tan Fxln Fair Pin-Pt Ixln Por Grad Dns Micrite Cht Wht Op Shp Vit  
Chalk Wht Soft Sh Char-Gry Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Tan Fxln Fair Pin-Pt Ixln Por Grad Dns Micrite Cht Wht-Gry Op Shp Vit  
Chalk Wht Soft Sh Char-Gry Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Tan Fxln Fair Pin-Pt Ixln Por Grad Dns Micrite Cht Wht - Gry - Drk Gry  
(w/Fos Includ) Transp-Op Shp Vit Chalk Wht Soft Sh Char-Gry Soft No Odor No Stn  
No Flor NS

Ls Wht-Crm-Tan Fxln Fair Pin-Pt Ixln Por Grad Dns Micrite Fos (Fuss) Cht Gry-Drk  
Gry Translu-Op Shp Vit Chalk Wht Soft Sh Char-Gry Soft No Odor No Stn No Flor  
NS

Ls Wht-Crm Fxln Fair Pin-Pt Ixln Por Grad OOL/OOM Por Poor Inter - OOL/OOM Por Poor Develop Poor  
Leaching Grad Dns Micrite Fos (Fuss) Cht Wht-Gry Op Shp Vit Chalk Wht Soft Sh Char-Gry-Maroon  
Soft No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Fair Pin-Pt Ixln Por Grad OOL/OOM Por Poor Inter - OOL/OOM Por Poor Develop Poor  
Leaching Grad Dns Micrite Fos (Fuss) Cht Wht-Gry Op Shp Vit Chalk Wht Soft Sh Char-Gry-Maroon  
Soft No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Fair Pin-Pt Ixln Por Grad OOL/OOM Por Poor Inter - OOL/OOM Por Poor Develop Poor  
Leaching Grad Dns Micrite Fos (Fuss) Cht Wht-Gry Op Shp Vit Chalk Wht Soft Sh Char-Gry-Maroon  
Soft No Odor No Stn No Flor NS

**QUEEN HILL 3974' (- 1535)**

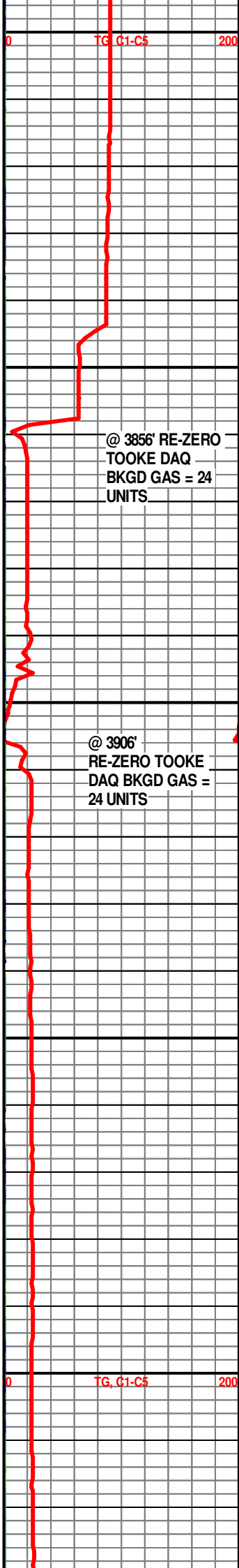
Sh Blk Carb-Char-Gry-Maroon Soft-Fissil Ls Wht-Crm Fxln Fair Pin-Pt Ixln Por Grad  
OOL/OOM Por Poor Inter - OOL/OOM Por AA Poor Develop Poor Leaching Grad  
Dns Micrite Fos (Fuss) Cht Wht-Gry Op Shp Vit Chalk Wht Soft No Odor No Stn No  
Flor NS

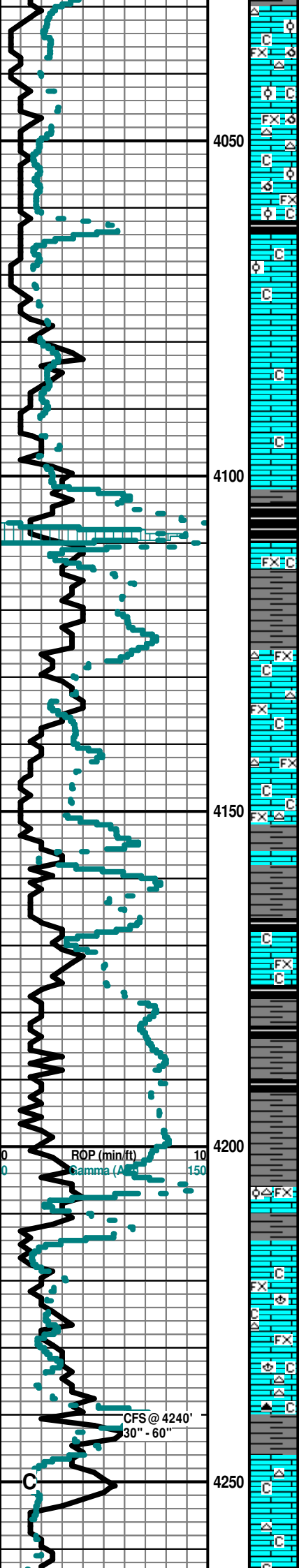
Ls Wht-Crm Fxln Fair Pin-Pt Ixln Por Grad OOL/OOM Por Poor Inter - OOL/OOM  
Por Poor Develop Poor Leaching Grad Dns Micrite Fos (Fuss) Cht Wht-Gry Op Shp  
Vit Chalk Wht Soft Sh Char-Gry-Maroon Soft No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Fair Pin-Pt Ixln Por Grad OOL/OOM Por Poor Inter - OOL/OOM Por AA Poor Develop  
Poor Leaching Grad Dns Micrite Fos (Fuss) Cht Wht-Gry Op Shp Vit Chalk Wht Soft Sh Blk  
Carb-Char-Gry-Maroon Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan Fxln Fair Pin-Pt Ixln Por Grad OOL/OOM Por Poor Inter -  
OOL/OOM Por AA Poor Develop Poor Leaching Grad Dns Micrite Fos (Fuss) Cht  
Wht-Gry Op Shp Vit Chalk Wht Soft Sh Char-Gry-Maroon Soft-Fissil No Odor No  
Stn No Flor NS

Ls Wht-Crm Fxln Fair Pin-Pt Ixln Por Grad OOL/OOM Por Poor Inter - OOL/OOM  
Por AA Poor Develop Poor Leaching Grad Dns Micrite Cht Wht Op Shp Vit Chalk  
Wht Soft Sh Blk Carb-Char-Gry-Maroon Soft-Fissil No Odor No Stn No Flor NS





Ls Wht-Crm Fxln Fair Pin-Pt Ixln Por Grad OOL/OOM Por Poor Inter - OOL/OOM Por AA Poor Develop Poor Leaching Grad Dns Micrite Cht Wht Op Shp Vit Chalk Wht Soft Sh Blk Carb-Char-Gry-Maroon Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Fair Pin-Pt Ixln Por Grad OOL/OOM Por Poor Inter - OOL/OOM Por AA Poor Develop Poor Leaching Grad Dns Micrite Cht Wht Op Shp Vit Chalk Wht Soft Sh Blk Carb-Char-Gry-Maroon Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Fair Pin-Pt Ixln Por Grad OOL/OOM Por Poor Inter - OOL/OOM Por AA Poor Develop Poor Leaching Grad Dns Micrite Cht Wht Op Shp Vit Chalk Wht Soft Sh Blk Carb-Char-Gry-Maroon Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Fair Pin-Pt Ixln Por Grad OOL/OOM Por Poor Inter - OOL/OOM Por AA Poor Develop Poor Leaching Grad Dns Micrite Cht Wht Op Shp Vit Chalk V Abd Wht Soft Sh Char-Gry-Grn-Maroon Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Poor-Fair Pin-Pt Ixln Por Grad Dns Micrite Cht Wht Op Shp Vit Chalk Wht Soft Sh Char-Gry-Grn-Maroon-Tr Blk Carb Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Poor-Fair Pin-Pt Ixln Por Grad Dns Micrite Cht Wht Op Shp Vit Chalk Wht Soft Sh Char-Gry-Grn-Maroon-Tr Blk Carb Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Poor-Fair Pin-Pt Ixln Por Grad Dns Micrite Cht Wht Op Shp Vit Chalk Wht Soft Sh Char-Gry-Grn-Maroon-Tr Blk Carb Soft-Fissil No Odor No Stn No Flor NS

**HEEBNER 4103' (- 1664)**

Sh Blk Carb-Char-Gry-Tr red Soft-Fissil (w/SG in Blk Carb Sh) Ls Wht-Crm Fxln Poor Pin-Pt Ixln Por Grad Dns Micrite Cht Wht Op Shp Vit Chalk Wht Soft Fos (Brach) No Odor No Stn No Flor NS

Sh Blk Carb-Char-Gry-Tr red Soft-Fissil (w/SG in Blk Carb Sh) Ls Wht-Crm Fxln Poor Pin-Pt Ixln Por Grad Dns Micrite Cht Wht Op Shp Vit Chalk Wht Soft Fos (Brach) No Odor No Stn No Flor NS

**TORONTO 4124' (- 1685)**

Ls Crm-Tan Fxln Fair-Poor Pin-Pt Ixln Por Grad Dns Micrite Cht Wht Op Shp Vit Chalk Wht Soft Sh Blk Carb-Char-Gry-Aqua-Maroon Soft-Fissil No Odor No Stn No Flor NS

Ls Crm-Tan Fxln Poor-Fair Pin-Pt Ixln Por Grad Dns Micrite Cht Wht Op Shp Vit Chalk Wht Soft Sh Blk Carb-Char-Gry-Aqua-Maroon Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Poor-Fair Pin-Pt Ixln Por Grad Dns Micrite Cht Wht Op Shp Vit Fos (Brach) Chalk Wht Soft Sh Blk Carb-Char-Gry-Aqua-Maroon Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Poor-Fair Pin-Pt Ixln Por Grad Dns Micrite Cht Wht Op Shp Vit Fos (Brach) Chalk Wht Soft Sh Blk Carb-Char-Gry-Aqua-Maroon Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Poor-Fair Pin-Pt Ixln Por Grad Dns Micrite Cht Wht Op Shp Vit Fos (Brach) Chalk Wht Soft Sh Blk Carb-Char-Gry-Aqua-Maroon Soft-Fissil No Odor No Stn No Flor NS

**DOUGLAS 4167' (- 1728)**

Sh Char-Gry-Aqua-Grn-Maroon-Tr Blk Carb Soft-Fissil Ls Crm-Tan-Gry Fxln Den Micrite No Odor No Stn No Flor NS

Sh Char-Gry-Aqua-Grn-Maroon-Tr Blk Carb Soft-Fissil Ls Crm-Tan Fxln Den Micrite Grad Tr Poor Pin-Pt Ixln Por Cht Wht Op Shp Vit No Odor No Stn No Flor NS

Sh Char-Gry-Aqua-Grn-Maroon-Tr Blk Carb Soft-Fissil Ls Crm-Tan Fxln Den Micrite Cht Wht Op Shp Vit No Odor No Stn No Flor NS

**IATAN (BROWN LIME) 4205' (- 1766)**

Ls Wht-Crm-Tan Fxln Fair-Poor Dns Micrite Cht Wht-Tan (w/OOL in pl) Op Shp Vit Chalk Wht Soft Sh Char-Gry-Maroon Soft-Fissil No Odor No Stn No Flor NS

**LANSING 4212' (- 1773)**

Ls Wht-Crm-Tan Fxln Fair-Poor Dns Micrite Cht Wht-Tan (w/OOL in pl) Op Shp Vit Chalk Wht Soft Sh Char-Gry-Maroon Soft-Fissil No Odor No Stn No Flor NS

30" CFS @ 4240' Ls Wht-Crm-Tan Fxln Fair-Poor Pin-Pt Ixln Por Grad Dns Micrite Cht Crm-Tan (Banded Wht) Op Shp Vit Fos (Brach) Chalk Wht Soft Sh Char-Gry-Maroon Soft-Fissil No Odor No Stn No Flor NS

60" CFS @ 4240' Ls Wht-Crm-Tan Fxln Fair-Poor Pin-Pt Ixln Por Grad Dns Micrite Cht Wht-Crm-Amber Translu-Op Shp Vit Fos (Brach) Chalk Wht Soft Sh Char-Gry-Maroon Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan Fxln Fair-Poor Pin-Pt Ixln Por Grad Dns Micrite Cht Wht-Crm-Amber Translu-Op Shp Vit Fos (Brach) Chalk Wht Soft Sh Char-Gry-Maroon Soft-Fissil No Odor No Stn No Flor NS

30" CFS @ 4275' Ls Wht-Crm Fxln Fair-Poor Pin-Pt Ixln Por Grad Dns Micrite Cht Wht-Amber Translu-Op Shp Vit Chalk Wht Soft Sh Char-Gry-Maroon Soft-Fissil No Odor No Stn No Flor NS

ADJUST CHROMATOGRAPH

CLEAN OUT FROZEN EXTRACTOR LINE & ACUMULATION CHAMBER

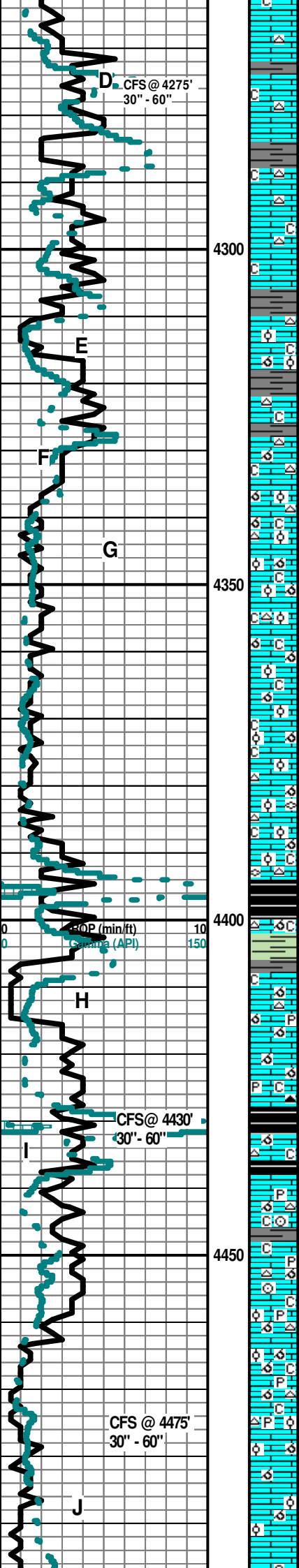
RE-ZERO TOOKE DAQ @ 4120' LAG DEPTH. BKGD GAS = 20 UNITS.

TG, C1-C5 200

Mudco Ck @ 4243' @ 8:30 AM 10/28/12 Vis 54; WT=9.15# PV= 16; YP= 18; WL= 8.4; Cake= 1; Chl=5400; Cal= 20; Sol=5.4% LCM= 2#; DMC=\$ 1612.45 CMC=\$ 11016.05 18163.55

ROP (min/ft) 10 Gamma (A) 150

CFS @ 4240' 30" - 60"



60" CFS @ 4275' Ls Wht-Crm Fxln Fair-Poor Pin-Pt Ixln Por Grad Dns Micrite Cht Wht-Amber Translu-Op Shp Vit Chalk Wht Soft Sh Char-Gry-Maroon Soft-Fissil No Odor No Stn No Flor NS

GAS KICK= 52 UNITS.

Ls Wht-Crm Fxln Fair-Poor Pin-Pt Ixln Por Grad Dns Micrite Cht Wht-an Translu-Op Shp Vit Chalk Wht Soft Sh Char-Gry-Maroon Soft-Fissil No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Fair-Poor Pin-Pt Ixln Por Grad Dns Micrite Cht Wht-Tan Translu-Op Shp Vit Chalk Wht Soft Sh Blk Carb-Char-Gry-Maroon Soft - Fissil No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Fair-Poor Pin-Pt Ixln Por Grad Dns Micrite Cht Wht-Tan Translu-Op Shp Vit Chalk Wht Soft Sh Blk Carb-Char-Gry-Maroon Soft - Fissil No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Fair-Poor Pin-Pt Ixln Por Grad Dns Micrite Cht Wht-Tan Translu-Op Shp Vit Chalk Wht Soft Sh Blk Carb-Char-Gry-Maroon Soft - Fissil No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Fair-Poor Pin-Pt Ixln Por Grad Poor-Fair OOL/OOM Por (w/OOL in PI) Poor Develop Poor Leaching Cht Wht-Tan Translu-Op Shp Vit Chalk Wht Soft ShChar-Gry-Maroon Soft - Fissil No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Fair-Poor Pin-Pt Ixln Por Grad Dns Micrite Cht Wht-Tan Translu-Op Shp Vit Chalk Wht Soft Sh Blk Carb-Char-Gry-Maroon Soft - Fissil No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Fair-Poor Pin-Pt Ixln Por Grad Poor-Fair OOL/OOM Por (w/OOL in PI) Poor Develop Poor Leaching Cht Wht Op Shp Vit Fos (Fuss) Chalk Wht Soft ShChar-Gry-Maroon Soft - Fissil No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Fair-Poor Pin-Pt Ixln Por Grad Poor-Fair OOL/OOM Por (w/OOL in PI) Poor Develop Poor Leaching Cht Wht Op Shp Vit Fos (Fuss) Chalk Wht Soft ShChar-Gry-Maroon Soft - Fissil No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Fair-Poor Pin-Pt Ixln Por Grad Poor-Fair OOL/OOM Por (w/OOL in PI) Poor Develop Poor Leaching Cht Wht Op Shp Vit Fos (Fuss) Chalk Wht Soft ShChar-Gry-Maroon Soft - Fissil No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Fair-Poor Pin-Pt Ixln Por Grad Poor-Fair OOL/OOM Por (w/OOL in PI) Poor Develop Poor Leaching Cht Wht Op Shp Vit Fos (Fuss) Chalk Wht Soft ShChar-Gry-Maroon Soft - Fissil No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Fair-Poor Pin-Pt Ixln Por Grad Poor-Fair OOL/OOM Por (w/OOL in PI) Poor Develop Poor Leaching Cht Wht Op Shp Vit Fos (Fuss) Chalk Wht Soft ShChar-Gry-Maroon Soft - Fissil No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Fair-Poor Pin-Pt Ixln Por Grad Poor-Fair OOL/OOM Por (w/OOL in PI) Poor Develop Poor Leaching Cht Wht Op Shp Vit Fos (Fuss) Chalk Wht Soft ShChar-Gry-Maroon Soft - Fissil No Odor No Stn No Flor NS

**MUNCIE CREEK 4396' (- 1957)**

Sh Blk Carb-Char-Gry Fissil w/SSG Ls AA Barren ? Min Flor No Odor No Stn NS

SH GAS KICK= 68 UNITS

**KANSAS CITY "DRUM" (H) 4408' (- 1969)**

0" CFS @ 4430' Ls Crm-Tan-Wht Fxln Abd Good OOM Por (Tr OOL in pl) Good Develop Good Vug Leaching Grad Dns Micrite (w/Pyr Inclus) Barren Cht Wht-Drk Gry Translu-Op Shp Vit ? Min Flor No Odor No Stn NS

30" CFS @ 4430' Ls Crm-Tan-Wht Fxln Abd Good OOM Por (Tr OOL in pl) Good Develop Good Vug Leaching Grad Dns Micrite (w/Pyr Inclus) Barren Cht Wht-Drk Gry Translu-Op Shp Vit ? Min Flor No Odor No Stn NS

60" CFS @ 4430' Ls Crm-Tan-Wht Fxln Abd Good OOM Por (Tr OOL in pl) Good Develop Good Vug Leaching Grad Dns Micrite (w/Pyr Inclus) Barren Cht Wht-Drk Gry Translu-Op Shp Vit ? Min Flor No Odor No Stn NS

Ls Crm-Tan-Wht Fxln Dns Micrite (w/Pyr Inclus) Barren Grad Tr/Good OOM Por AA Good Develop Good Vug Leaching Cht Wht-Gry Translu-Op Shp Vit Sh Gry-Grm-Char Fissil ? Min Flor No Odor No Stn NS

Ls Crm-Tan-Wht Fxln Dns Micrite (w/Pyr Inclus) Barren Grad Tr/Good OOM Por AA Good Develop Good Vug Leaching Fos (Crin) Cht Wht-Gry Translu-Op Shp Vit Sh Blk Carb-Gry-Grm-Char Fissil ? Min Flor No Odor No Stn NS

Ls Crm-Tan-Wht Fxln Dns Micrite (w/Pyr Inclus) Barren Grad Tr/Good OOM Por AA Dec Good Develop Good Vug Leaching Fos (Crin) Cht Wht-Tan Op Shp Vit Sh Blk Carb-Gry-Grm-Char Fissil ? Min Flor No Odor No Stn NS

30" CFS @ 4475' Ls Crm-Tan-Wht Fxln Abd Good OOM Por (Tr OOL in pl) Good Develop Good Vug Leaching Grad Dns Micrite (w/Pyr Inclus) Barren Cht Wht-Drk Gry Translu-Op Shp Vit ? Min Flor No Odor No Stn NS

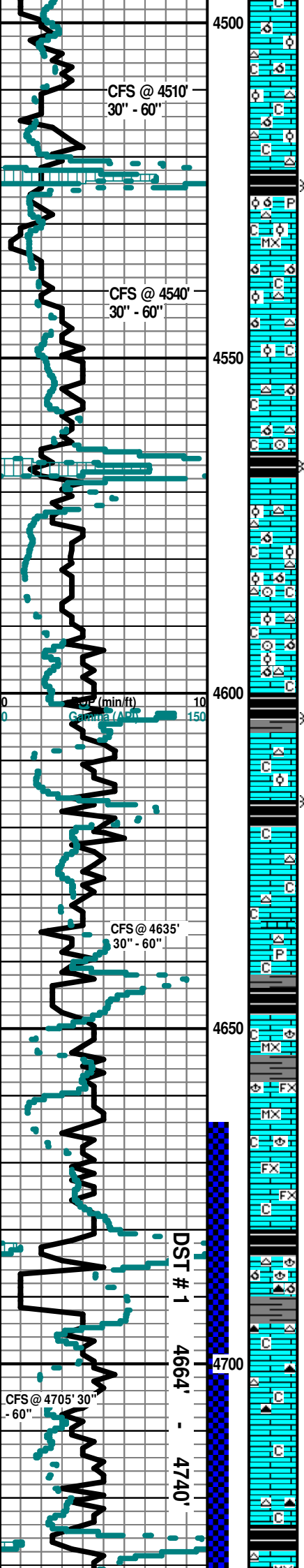
60" CFS @ 4475' Ls Crm-Tan-Wht Fxln Abd Good OOM Por (Tr OOL in pl) Good Develop Good Vug Leaching Grad Dns Micrite (w/Pyr Inclus) Barren Cht Wht-Drk Gry Translu-Op Shp Vit ? Min Flor No Odor No Stn NS

Ls Crm-Tan-Wht Fxln Fair-Med OOM Por (Tr Med Ooids in pl) Fair-Med Develop Fair-Med Leaching (Tr Good Vug Leaching) Barren Cht Wht Op Shp Vit Chalk Abd Sh Blk Carb-Gry-Grm Soft-Fissil ? Min Flor No Odor No Stn NS

30" CFS @ 4510' Ls Crm-Tan-Wht Fxln Fair OOM Por (Tr Small Ooids in pl) Fair Develop Fair Leaching Cht Wht-Lt Grv Translu-Op Shp Vit Chalk Abd Sh Blk Carb-Gry-Grm Soft-Fissil ? Min Flor

BKGD GAS = 40 UNITS.

Mudco Ck @ 4604' @ 9:40 AM 10/29/12 Vis 55; WT=9.15# PV= 17; YP= 18; WL= 8.4; Cake= 1; Chl=3900; Cal= 20; Sol=5.5%. LCM= 2#; DMC=\$ 1845.30 CMC=\$ 12861.35



No Odor No Stn NS

60" CFS @ 4510' Ls Wht-Crm-Tan FxIn Poor OOM Por (Tr OOL in pl) Poor Develop PoorLeaching Grad Dns Micrite Barren Cht Wht-Lt Gry Translu-Op Shp Vit Chalk Abd ? Min Flor No Odor No Stn NS

Ls Wht-Crm-Tan FxIn Poor OOM Por (Tr OOL in pl) Poor Develop PoorLeaching Grad Dns Micrite Barren Cht Wht-Lt Gry Translu-Op Shp Vit Chalk Abd ? Min Flor No Odor No Stn NS

**STARK STARK 4522' (- 2083)**

**KANSAS CITY "SWOPE" (K) 4526' (- 2086)**

30" CFS @ 4540' Sh Blk Carb (w/Pyr Inklus)-Gry Fissil (w/SSG) Ls Ls Crm-Tan-Wht FxIn Fair OOM Por (Tr Small Ooids in pl) Fair Devebp Fair Leaching Cht Wht-Lt Gry Translu-Op Shp Vit Chalk Abd ? Min Flor No Odor No Stn NS

60" CFS @ 4540' Ls Wht-Crm FxIn Poor-Good OOM Por (Tr Small-Med-Lg Ooids in pl) Poor-Good Develop Poor-Good Vug Leaching Cht Wht Op Shp Vit Chalk Abd ? Min Flor No Odor No Stn NS

Ls Wht-Crm FxIn Poor-Fair OOM Por (Tr Small-Med Ooids in pl) Poor-Fair Develop Poor-Fair Vug Leaching Dec Cht Wht Op Shp Vit Chalk Abd ? Min Flor No Odor No Stn NS

Ls Wht-Crm-Tan FxIn Dns Micrite Barren Fos (Crim) Cht Wht-Tan-Amber Translu-Op Shp Vit Chalky Sh Blk Carb-Gry-Char Fissil ? Min Flor No Odor No Stn NS

**HUSHPUCKNEY 4564' (- 2125)**

**KANSAS CITY "HERTHA" (L) 4568' (- 2129)**

Ls Wht-Crm-Tan FxIn Dns Micrite Barren Grad Tr Good OOM Por Good InterOOM Por Good Dissolu Good Leaching (5 Pcs) Fos (Crim) Cht Wht-Tan-Amber Translu-Op Shp Vit Chalky Sh Blk Carb-Gry-Char Fissil ? Min Flor No Odor No Stn NS

Ls Wht-Crm-Tan FxIn Dns Micrite Barren Grad Tr Good OOM Por Good InterOOM Por Good Dissolu Good Leaching (5 Pcs) Fos (Crim) Cht Wht-Tan-Amber Translu-Op Shp Vit Chalky Sh Blk Carb-Gry-Char Fissil ? Min Flor No Odor No Stn NS

**BASE KANSAS CITY 4601' (- 2162)**

**MARMATON 4606' (- 2167)**

Ls Wht-Crm-Tan FxIn Dns Micrite Barren Grad Fair OOM Por Fair InterOOM Por Fair Dissolu Fair Leaching Cht Wht-Tan-Amber Translu-Op Shp Vit Chalky Sh Blk Carb-Char-Gry Fissil ? Min Flor No Odor No Stn NS

30" CFS @ 4635' Ls Tan-Gry MicroxIn Dns Micrite Grad Tr Poor Pin-P tIxIn Por Cht Wht-Gry-Amber Translu-Op Shp Vit Chalk AA Sh Blk Carb-Char-Gry-Aqua ? Min Flor No Stn No Odor NS

60" CFS @ 4635' Ls Tan-Gry MicroxIn Dns Micrite Grad Tr Poor Pin-Pt lXIn Por Cht Wht-Gry-Amber Translu-Op Shp Vit Chalk AA Sh Blk Carb-Char-Gry-Aqua ? Min Flor No Stn No Odor NS

Sh Blk Carb-har-Gry-Grn-Red-Purpl Soft-Fissil Ls Wht-Crm FxIn Dns Micrite Grad Med-Good OOM Por Barren Cht Wht -Gry -Amber Translu- Op Shp Vit Chalky Pyr Mass No Stn ? Min Flor No Odor NS

**ALTAMONT "A" 4648' (- 2209)**

Ls Tan-Gry MicroxIn Dns Micrite Barren Fos (Brach) Chalk Sh Char- Gry- Grn -Red Soft-Fissil ? Min Flor No Stn No Odor NS

Ls Tan-Gry-Crm MicroxIn Dns Micrite Barren Fos (Brach) Chalk Sh Char- Gry- Grn -Red Soft-Fissil ? Min Flor No Stn No Odor NS

Sh Blk Carb-Char-Gry-Grn-Red Soft-Fissil Ls Wht-Crm MicroxIn-FxIn Dns Micritic Barren Grad to Fair-Med-Good OOM Por Med-Good Leahing Med-Good Develop Fos (Brach) ? Min Flor No Stn No Odor NS

**ALTAMONT "B" 4685' (- 2246)**

30" CFS @ 4705' Ls Wht-Crm MicroxIn-FxIn Dns Micritic Barren Grad to Fair-Med-Good OOM Por Med-Good Leahing Med-Good Develop Cht Amber (Banded Wht) Translu-Op Shhp Vit Fos (Brach) Chalky Sh Char-Gry-Grn-Red Soft-Fissil Tr Sli ? Min Flor No Stn No Odor NS

60" CFS @ 4705' Ls Wht-Crm-Gry MicroxIn-FxIn Dns Micritic Barren Chalky Cht Amber-Gry Translu Shp Vit Sh Char-Gry-Grn-Red Soft-Fissil ? Min Flor No Stn No Odor NS

Ls Wht-Crm MicroxIn-FxIn Dns Micritic Barren Chalky Sh Char -Gry- Grn- Red Soft-Fissil No Flor No Stn No Odor NS

30" CFS @ 4740' Ls Wht MicroxIn-FxIn Dns Micrite Tr V Poor ldn Por Barren Cht Tan-Gry-Amber Translu-Op Shp Vit Chalky Sh Blk Carb-Gry- Grn-Aqua Soft-Fissil Sli ? Min Flor No Stn No Odor NS

**PAWNEE 4728' (- 2289)**

SH GAS KICK= 48 UNITS

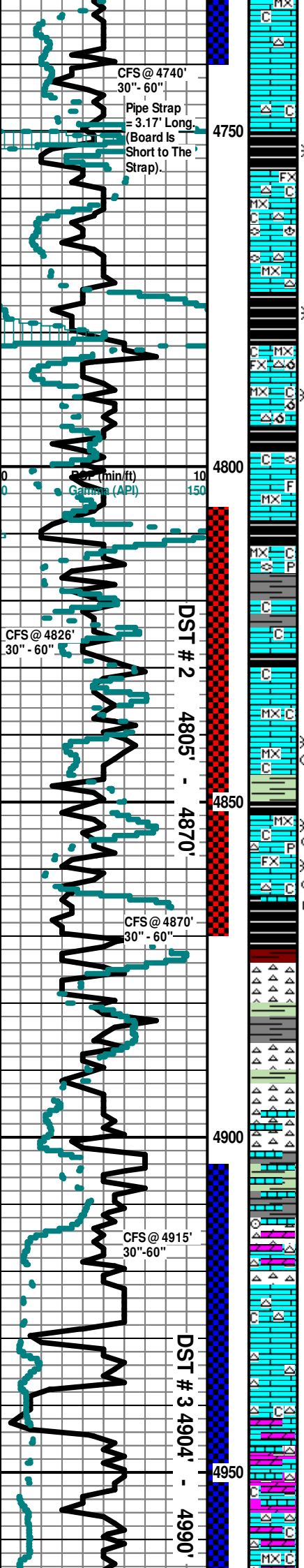
RE-ZERO TOOKE DAQ @ 4541' LAG DEPTH. BKGD GAS SET= 12 UNITS.

SH GAS KICK= 51 UNITS

GAS KICK = 50 UNITS

DST #1 4664'-4740'.  
 Times: 30"-45"-45"-60".  
 Blow: IF= Weak Blow  
 Build / 1/2"; FF= Weak Surface Blow.  
 Recovery: 15' M (Tool Spl.w Spots Oil Show,100% M).  
 Pressures: IH=2263#; FH=2261#; IF= 8-13#; FF= 11-11#; ISIP= 31#; FSIP= 20#; Temp.= 115 degrees  
 F. Mudco Ck @ 4740' @ 8:05 AM 10/30/12 Vis 56; WT=9.4#; PV= 18; YP= 18; WL= 9.4; Cake= 1; Chl=5600; Cal= 20; Sol=7.5%. LCM=2#; DMC=#; 393.45 CMC=# \$13254.80

TG, C1-C5 200



60" CFS @ 4740' Ls Wht MicroXn-FxIn Dns Micrite Tr V Poor IxIn Por Barren Cht Tan-Gry-Amber Translu-Op Shp Vit Chalky Sh Blk Carb-Char-Gry- Grn-Aqua Soft-Fissil Sli ? Min Flor No Stn No Odor NS

Sh Blk Carb-Char-Gry-Grn-Red Soft-Fissil Ls Wht-Crm MicroXn-FxIn Dns Micritic Barren Cht AA Chalky AA Scat ? Min Flor No Stn No Odor NS

**FORT SCOTT 4755' (- 2316)**

Sh Blk Carb-Char-Gry-Grn-Red Soft-Fissil Ls Wht-Crm MicroXn-FxIn Dns Micritic Barren Cht AA Chalky AA Scat ? Min Flor No Stn No Odor NS

Ls Wht-Crm MicroXn Dns Micrite Barren Fos (Lg Brach, Lg Fuss) Cht Wht Op Shp Vit Sh Blk Carb AA No Odor No Stn No Flor NS

**CHEROKEE SHALE 4774' (- 2335)**

Sh Blk Carb V Abd-Char (w/SG) Fissil Ls Wht-Crm MicroXn-FxIn Dns Micritic Barren Chalky No Flor No Stn No Odor SG in Blk Sh

Ls Wht MicroXn-FxIn Dns Micrite Tr V Poor IxIn Por Barren Grad Med-Good OOM Por Med-Good Develop Good Vug Leaching (w/? SSG ?) Cht Tan -Gry - Amber Translu-Op Shp Vit Fos (Crin, Fuss) Chalky Sh Blk Carb-Char-Gry-No Flor No Stn No Odor NS

Ls Wht MicroXn-FxIn Dns Micrite Grad Poor IxIn Por Barren Cht Tan -Gry -Amber Translu-Op Shp Vit Fos (Fuss) Chalky Abd Sh Blk Carb-Char -Gry -No Flor No Stn No Odor NS

Ls Wht-Crm-Tan MicroXn Dns Micrite Barren Cht Wht - Amber Translu-Op Shp Vit Chalky Fos (Spiculitic) Sh Blk Carb (w/Pyr Inclus) Char- Gry No Flor No Stn No Odor NS

30" CFS @ 4826' Ls Wht-Crm-Tan MicroXn Dns Micrite Barren Cht AA Chalky Sh Blk Carb (w/Pyr Inclus) Char-Gry-Fissil No Flor No Stn No Odor NS

60" CFS @ 4826' Ls Wht MicroXn-FxIn Dns Micrite Grad Med OOM Por Med Develop Med Leaching Barren Chalky Sh Char-Gry-No Flor No Stn No Odor NS

Ls Wht-Crm MicroXn-FxIn Poor IxIn Pin-Pt Por Cht Wht Op Shp Vit Chalky Sh Char-Gry Fissil No Odor No Flor Sli Stn NS

Ls Wht-Crm MicroXn-FxIn Fair-Med IxIn Pin-Pt Por (w/SG & SO Under Heat in Wtr & Tr Gillsontic Drk Blk Stn) SFO & SG w/Bkn (Oil & Gas Does Not Flor) Chalky Sh Char-Gry-Drab Grn Fissil No Odor ? Sli Flor Sli Stn SG & SO

**HUCK 4852' (- 2413)**

30" CFS @ 4870' Ls Wht-Crm MicroXn-FxIn Fair-Med IxIn Pin-Pt Por (w/Pyr Inclus) (w/SG & SO Under Heat in Wtr & Tr Gillsontic Drk Blk Stn) SFO & SG w/Bkn (Oil & Gas Does Not Flor) Cht Wht Op Shp Vit Chalky Sh Char-Gry Fissil No Odor ? Sli Flor Sli Stn SG & SO;

60" CFS @ 4870' Ls Wht-Crm AA (w/SG & SO Under Heat in Wtr & Tr Gillsontic Drk Blk Stn) SFO & SG w/Bkn AA Chalky Sh AA-Drab Grn Fissil No Odor ? Sli Flor Sli Stn SG & SO

**ATOKA 4867' (- 2428)**

**MISSISSIPPIAN 4870' (- 2431)**

Cht Wht--Crm-Pink-Lt Org Op Shp Vit Fresh V Abd (Tr w/Pyr Inclus) (50% of Spl) Chalk (20% of Spl) Sh Variolored Blk Carb-Char-Drab Grn-Yell-Aqua-Olive-Maroon (30% of Spl) Fissil No Odor No Stn No Flor NS

Cht Wht--Crm-Pink Inc-Lt Org Inc (70% of Spl) Op Shp Vit Fresh V Abd Ls Wht MiroXn Dns Micrite Chalk (10% of Spl) Sh Variolored Blk Carb-Char-Drab Grn Inc-Yell Inc -Aqua-Olive Inc-Maroon (20% of Spl) Fissil No Odor No Stn No Flor NS

Cht Wht--Crm-Pink Inc-Lt Org Inc Translu- Op Shp Vit Fresh (40% of Spl) Ls Wht MiroXn Dns Micrite Inc (25% of Spl) Abd Chalk (10% of Spl) Sh Variolored Blk Carb-Char-Drab Grn Inc-Yell Inc -Aqua-Olive Inc-Maroon Fissil (25% of Spl) No Odor No Stn No Flor NS

30" CFS @ 4915' Cht Wht--Crm-Pink Inc-Lt Org Inc Translu- Op Shp Vit Fresh (50% of Spl) Ls Wht MiroXn Dns Micrite Inc (40% of Spl) Abd Chalk (5% of Spl) Sh Variolored Blk Carb-Char-Drab Grn Inc-Yell Inc -Aqua-Olive Inc-Maroon Fissil (55% of Spl) No Odor No Stn No Flor NS

60" CFS @ 4915' Cht Wht--Crm Dec-Pink Dec-Lt Org Dec Translu- Op Shp Vit Fresh (50% of Spl) Ls Wht MiroXn Dns Micrite Inc (40% of Spl) Abd Chalk (5% of Spl) Fos (Crin) Sh Variolored Blk Carb-Char-Drab Grn Inc-Yell Inc -Aqua-Olive Inc-Maroon Fissil (5% of Spl) No Odor No Stn No Flor NS

Cht Wht--Crm-Pink-Lt Org (Tr Only) Translu- Op Shp Vit Fresh (30% of Spl) Ls Wht MiroXn Dns Micrite Inc (50% of Spl) Abd Chalk (5% of Spl) Sh Variolored Blk Carb-Char-Drab Grn Inc-Yell-Aqua Inc-Olive (Tr Only) -Maroon Fissil (15% of Spl) No Odor No Stn No Flor NS

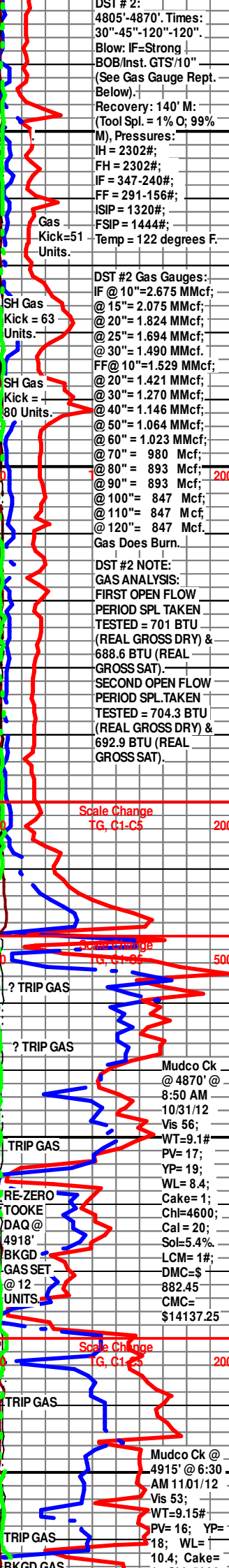
Ls Wht -Crm MicroXn Dns Micritic (25% of Spl) Grad Dolo/Ls Wht-Crm-Yell (w/Cht Wht Inclus) Dns Micrite 25% of Spl) Cht AA Wht Translu-Op Shp-Vit (30% of Spl) Sh Blk Carb-Char-Gry-Aqua-Maroon (20% of Spl) No Odor Tr ? Min flor (Dolo) No Stn NS

Ls Wht -Crm MicroXn Dns Micritic (60% of Spl) Cht Wht-Lt Gry-Gry Translu-Op Shp-Vit (30% of Spl) Sh Blk Carb-Char-Gry-Aqua-Maroon (10% of Spl) No Odor Tr ? Min Flor (5 Pcs) No Stn NS

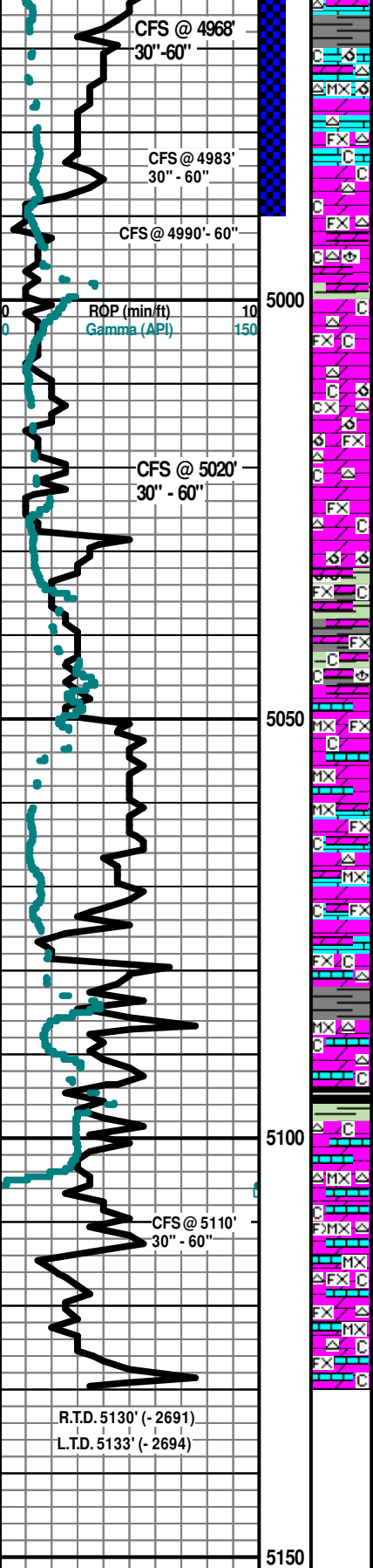
**SALEM (SPERGEN) 4944' (- 2505)**

30" CFS @ 4968' Dolo/Ls Gry-Wht-Crm MicroXn Dns Barren Grad FxIn Poor Pin-Pt IxIn Por Baren Cht Wht-Gry-Lt Gry Translu-Op Shp Vit Chalk Wht-Peach Sh Aqua-Char-Grn-Maroon No Odor Tr ? Min Flor (4 Pcs) No Stn NS

60" CFS @ 4968' Ls/Dolo Crm-Wht-Gry MicroXn Dns Barren Grad FxIn Poor-Fair Pin-Pt IxIn Por Baren Cht Wht-Gry-Lt Gry Translu-Op Shp Vit Chalk Wht-Peach Sh Aqua-Char-Grn-Maroon No Odor Tr ? Min Flor (3 Pcs) No Stn NS







30" @ 4983' Ls/Dolo Crm-Wht-Gry Microxln Dns Barren Grad Fxln Fair-Pin-Pt Ixln Por Barren Grad Poor OOM Por Poor InterOOM Por Poor Develop Poor Leaching Cht Wht-Gry-Lt Gry Translu-Op Shp Vit Chalk Wht-Peach Sh Aqua - Char - Grn - Maroon No Odor No Flor No Stn NS

60" @ 4983' Dolo/Ls Gry-Crm-Wht Microxln Grad Fxln Med Pin-Pt Ixln Por Cht Wht- Gry- Lt Gry- Yell Translu-Op Shp Vit Chalk Wht-Peach Sh Aqua - Char - Grn - Maroon No Odor No Flor No Stn NS

60" CFS @ 4990' Dolo Gry Fxln Grad Med-Good Pin-Pt Ixln Por Grad Med -Good OOM Por Med-Good Dissolu Good Leaching Grad Fxln ? Sucrosic Por Cht Peach Translu Shp Vit Chalk (Tr Only Sh Aqua - Char - Grn - Maroon No Odor No Flor No Stn NS

Dolo Gry-Tan-Crm Fxln Good Vug (Small-Med) Pin-Pt Ixln Por Med-Good Leaching Cht Wh Op Shp Vit Chalk Abd Fos (Lg Brach) Sh Aqua - Char - Grn - Maroon No Odor No Flor No Stn NS

30" CFS @ 5020' Dolo Gry-Crm-Wht Fxln Med Vug Inln Pin-Pt Por Med Leaching Cht Wh-Yell Translu-Op Shp Vit Chalky Sh Aqua - Char - Grn - Olive - Maroon No Odor No Flor No Stn NS

60" CFS @ 5020' Dolo Crm-Wht Fxln Grad Med-Good Pin-Pt Ixln Por Grad Med-Good OOM Por Med-Good Dissolu Good Vug Leaching Mostly Fxln-Mxln Ixln Por Cht Crm-Peach-Lt Org Translu-Op Shp Vit Chalk Dec Sh Aqua - Char - Grn - Olive- Maroon Soft-Fissl No Odor No St nNo Flor NS No Odor No Flor No Stn NS

Dolo Crm-Wht Fxln Grad Good Ixln Por Grad Good ? Sucrosic Vug Por Good Dissolu Good Leaching Cht Wht-Lt Org Translu-Op Shp Vit Chalk Inc Sh Aqua - Char - Grn - Olive-Maroon No Odor No Flor No Stn NS

Dolo Wht-Crm Fxln Grad Med-Good Ixln Vug Por Grad Med OOM Por Med Dissolu Med Leaching Cht Wht Translu-Op Shp Vit Chalk (Inc) Sh Char - Grn - Aqua-Maroon-Olive No Odor No Flor No Stn NS

Dolo Gry-Wht-Crm Fxln Grad Med-Good Ixln Por Med Dissolu Med Leaching Cht Wht Translu-Op Shp Vit Fos (Brach) Chalk (Abd) Sh Char - Grn - Aqua-Maroon-Olive No Odor No Flor No Stn NS

Dolo/Ls Wht-Crm Microxln-Fxln Poor Ixln Por Chalk (Abd) Sh Char - Grn - Aqua-Maroon-Olive No Odor No Flor No Stn NS

Ls/Dolo Wht-Crm Microxln-Fxln Poor Ixln Por Cht Wht Op Shp Vit Chalk (Abd) Sh Char - Grn -Aqua- Maroon No Odor No Flor No Stn NS

Ls/Dolo Gry-Crm-Wht Microxln-Fxln Poor Ixln Por Grad Tr Med Xln (w Vug Ixln Por) Chalky Sh Char - Grn -Aqua (Blue)- Maroon - Olive No Odor No Flor No Stn NS

Dolo/Ls Gry-Crm-Wht Microxln-Fxln Poor Ixln Por Micritic Cht Wht Translu- Op Shp Vit Chalky Sh Char - Grn -Aqua- Maroon - Olive No Odor No Flor No Stn NS

30" CFS @ 5110' Dolo/Ls Gry-Crm-Wht Microxln-Fxln Poor Ixln Por Micritic Grad Poor-Fair Ixln Por (w/Glacu Inklus) V Abd Cht Frosted Wht-Lt Gry (w/OOL & Fos (Spic) Inklus Translu-Op Shp Vit Chalky Sh Char - Grn -Aqua- Maroon - Olive Tr Bk Carb Soft-Fissil No Odor No Flor No Stn NS

60" CFS @ 5110' Dolo/Ls Gry-Crm-Wht Microxln-Fxln Poor Ixln Por Micritic Grad Poor-Fair Ixln Por (w/Glacu Inklus) V Abd Cht Frosted Wht-Lt Gry (w/OOL & Fos (Spic) Inklus Translu-Op Shp Vit Chalky Sh Char - Grn -Aqua- Maroon - Olive Tr Bk Carb Soft-Fissil No Odor No Flor No Stn NS

Dolo/Ls Gry-Crm-Wht Microxln-Fxln Poor Ixln Por Micritic Grad Poor-Fair Ixln Por (w/Glacu Inklus) V Abd Cht Frosted Wht-Lt Gry (w/OOL & Fos (Spic) Inklus Translu-Op Shp Vit Chalky Sh Char - Grn -Aqua- Maroon - Olive Tr Bk Carb Soft-Fissil No Odor No Flor No Stn NS

30" CFS @ 5130' Dolo/Ls Gry-Crm-Wht Microxln-Fxln Poor Ixln Por Micritic Grad Poor-Fair Ixln Por (w/Glacu Inklus) V Abd Cht Frosted Wht-Lt Gry (w/OOL & Fos (Spic) Inklus Translu-Op Shp Vit Chalky Sh Char - Grn -Aqua- Maroon - Olive Tr Bk Carb Soft-Fissil No Odor No Flor No Stn NS

Electric Logs Run: By Nabors Logging:  
 Dual Induction and Compensated Density-Neutron Logs.  
 Geologist Left Location at 11:30 AM on 11/03/2012.

