



**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

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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' HWCW (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.

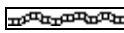
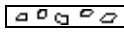
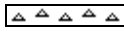
Comments

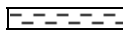
After review of all of the pertinent geological and structural data, drill test recoveries and reservoir pressures, including two samples presented for gas analysis that indicated low BTU non-commercial gas as was recovered from DST #2, and electric logs analyses it was recommended by all parties to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

Respectfully submitted,

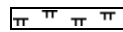
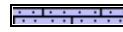
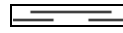
David P. Williams, P. G.

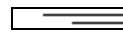
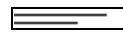
ROCK TYPES

 **Anhy**
 **Bent**
 **Brec**
 **Carb sh**
 **Cht**

 **Clyst**
 **Coal**
 **Congl**
 **Dol**
 **Grn sh**

 **Gry sh**
 **Gyp**
 **Igne**
 **Lmst**
 **Meta**

 **Mrlst**
 **Red shale**
 **Salt**
 **Sandylms**
 **Shale**

 **Shcol**
 **Shgy**
 **Sltst**
 **Ss**
 **Till**

	Anhy
	Arggrn
	Arg
	Bent
	Bit
	Breccfrag
	Calc
	Carb
	Chtdk
	Chtlit
	Dol
	Feldspar
	Ferrpel
	Ferr
	Glau
	Gyp

	Hvymín
	Kaol
	Marl
	Minxí
	Nodule
	Phos
	Pyr
	Salt
	Sandy
	Silt
	Sil
	Sulphur
	Tuff

Algae
Amph

	Belm
	Bioclst
	Brach
	Bryozoa
	Cephal
	Coral
	Crin
	Echin
	Fish
	Foram
	Fossil
	Fuss
	Gastro
	Oolite
	Oomold
	Ostra
	Pelec

 Pellet
 Pisolite
 Plant
 Strom

 Anhy
 Arg
 Bent
 Coal
 Dol
 Grysl
 Grysh
 Gyp
 Lms
 Ls
 Mrst

 **Slstrg**
 **Ssstrg**

BS	Boundst
C	Chalky
CX	CryxIn
E	Earthy
FX	FinexIn
GS	Grainst
L	Lithogr
MX	MicroxIn
MS	Mudst
PS	Packst
WS	Wackest

E	Earthy
F	Fenest
F	Fracture
X	Inter
M	Moldic
O	Organic
P	Pinpoint

 Vuggy

 Well
 Moderate
 Poor

ROUNDING	
	Rounded
	Subrnd
	Subang
	Angular

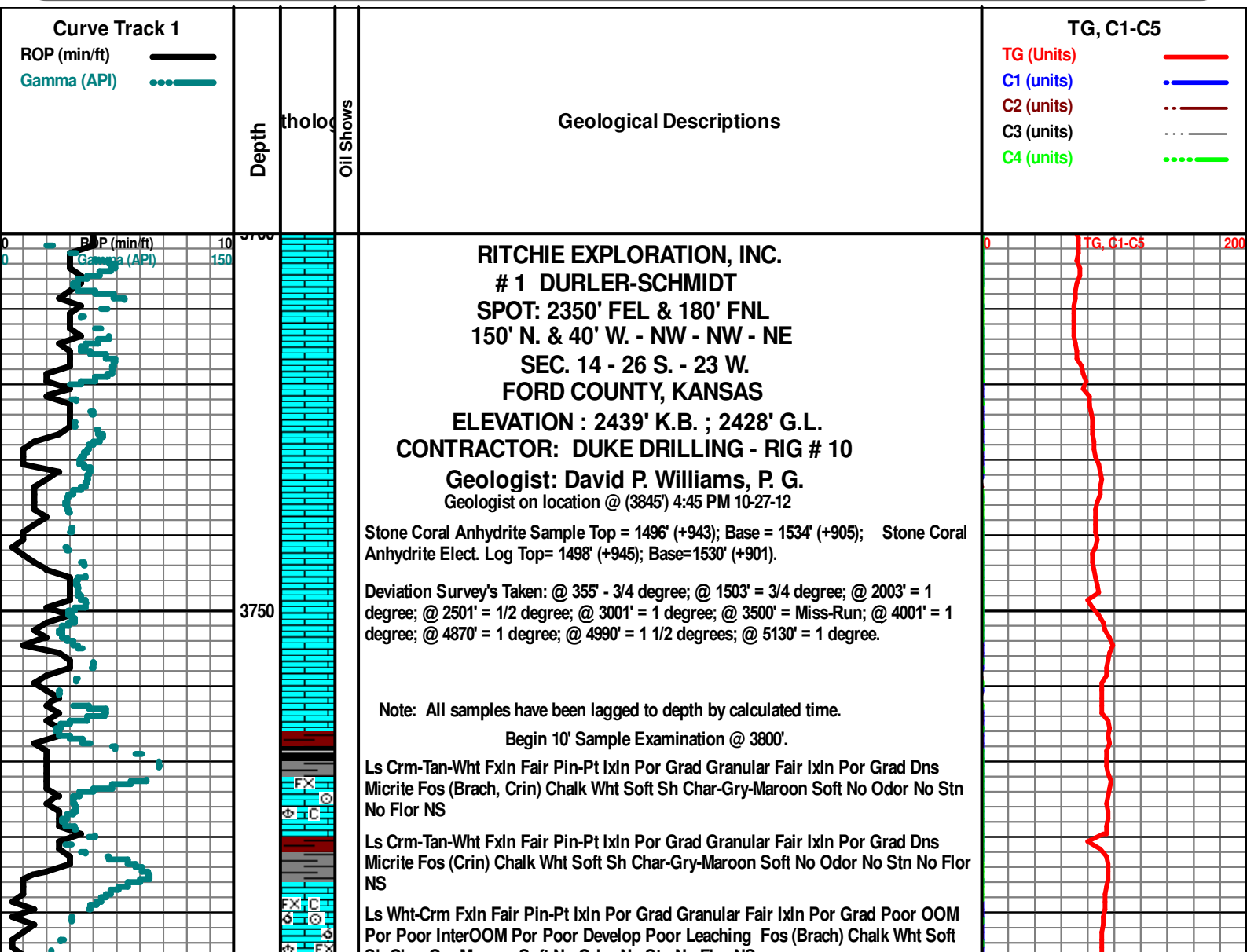
**Even
Spotted
Ques
Dead**

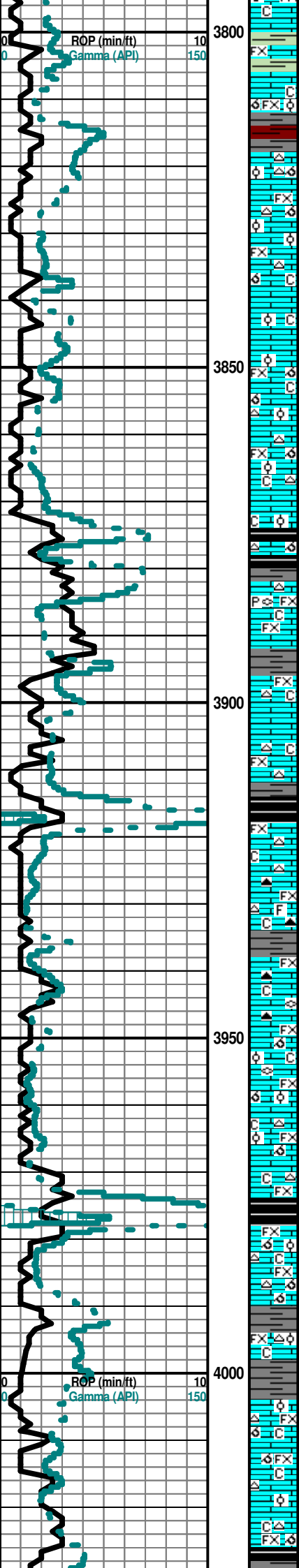
 **Dst_alt**
 **Dst**

 Rft
 Sidewall

 Straddle test tail pipe
 Core

OIL SHOW
 **Gas show**





Sh Char-Gry-Maroon Soft No Odor 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 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 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 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

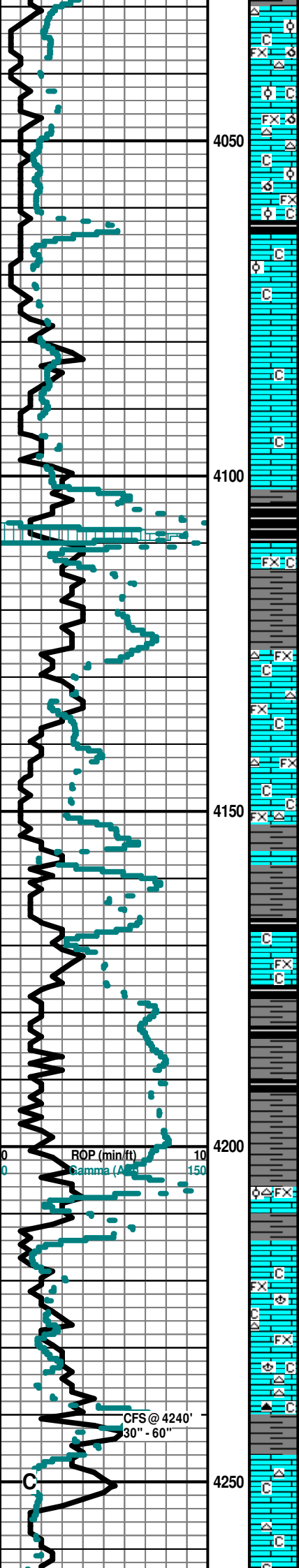
Ls Wht-Crm Fxln Fair Pin-Pt Ixln Por Grad OOL/OOM Por Poor Inter - OOL/OOM
Por AA Poor Develop Poor Leaching Grad Dns Micrite Cht Wht Op Shp Vit Chalk
Wht Soft Sh Blk Carb-Char-Gry-Maroon Soft-Fissil No Odor No Stn No Flor NS

TG, C1-C5 200

@ 3856' RE-ZERO
TOOKE DAQ
BKGD GAS = 24
UNITS

@ 3906'
RE-ZERO TOOKE
DAQ BKGD GAS =
24 UNITS

TG, C1-C5 200



Ls Wht-Crm Fxln Fair Pin-Pt Ixln Por Grad OOL/OOM Por Poor Inter - OOL/OOM Por AAPoor 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 AAPoor 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 AAPoor 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 AAPoor 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 redSoft-Fissil (w/SGinBlk CarbSh) 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 redSoft-Fissil (w/SGinBlk CarbSh) 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/OOLin 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/OOLin 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

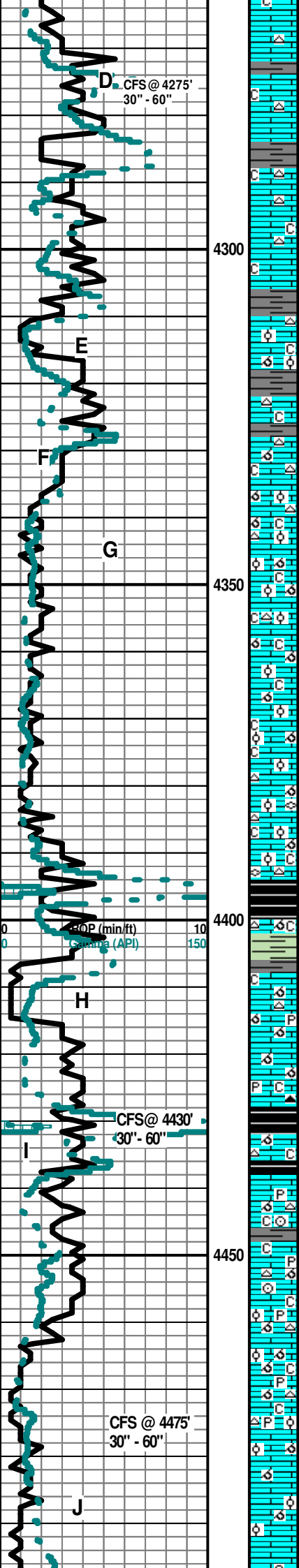
ADJUST
CHROMATOGRAPH

CLEAN OUT
FROZEN
EXTRACTOR LINE-
& ACUMULATION
CHAMBER

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

TG, C1-C5

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



60" CFS @ 4275' Ls Crm-Fxn 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

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

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 Inklus) 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 Inklus) 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 Inklus) 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 Inklus) 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 Inklus) 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 Inklus) 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 Inklus) 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 Inklus) 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

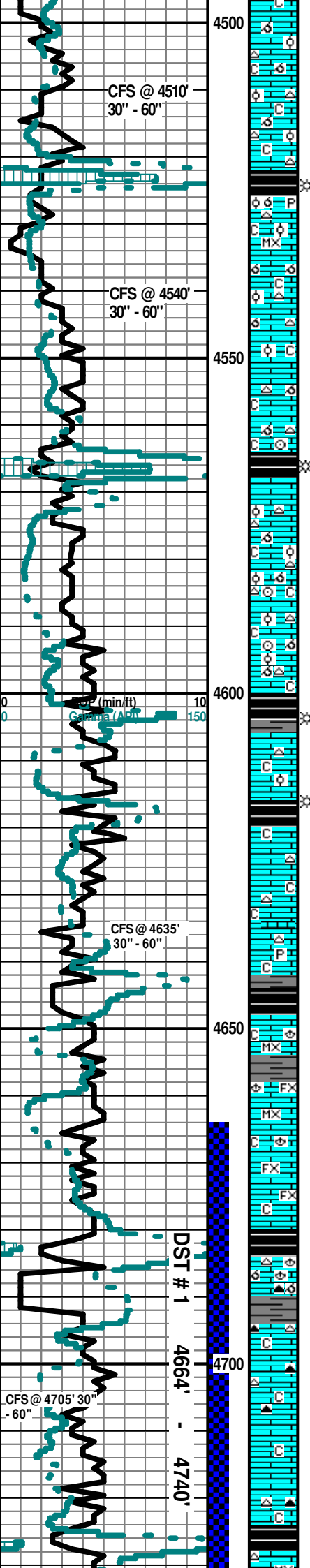
30" CFS @ 4510' Ls Crm-Tan-Wht Fxln Fair OOM Por (Tr Small Ooids in pl) Fair Develop Fair Leaching Cht Wht-Lt Gry Translu-Op Shp Vit Chalk Abd Sh Blk Carb-Gry-Grm Soft-Fissil ? Min Flor No Odor No Stn NS

GAS KICK= 52 UNITS.

SH GAS KICK= 68 UNITS

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=\$ 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 Develop 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-PtIn 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 In 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 Leaching 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 Leaching 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 bIn 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

PAWNEE 4728' (- 2289)

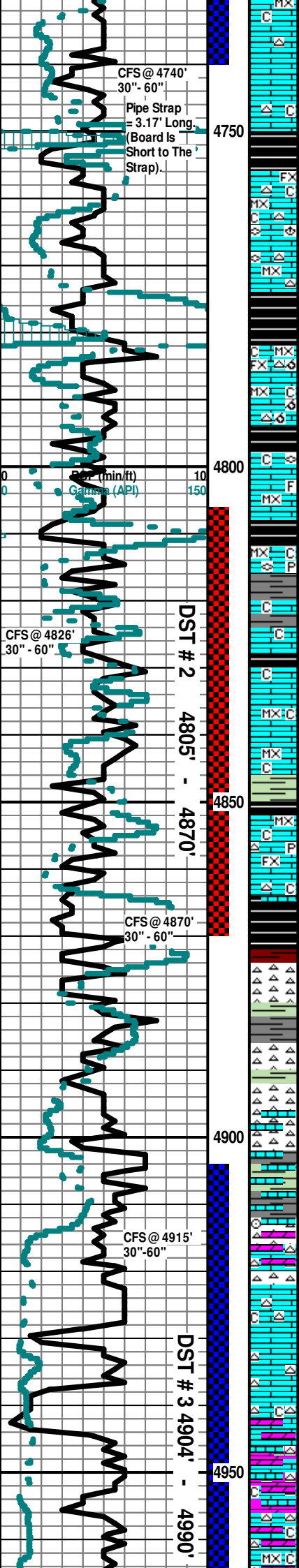
SH GAS KICK= 48 UNITS

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



60" CFS @ 4740' Ls Wht MicroIn-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 MicroIn-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 MicroIn-FxIn Dns Micritic Barren Cht AA Chalky AA Scat ? Min Flor No Stn No Odor NS

Ls Wht-Crm MicroIn 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 MicroIn-FxIn Dns Micritic Barren Chalky No Flor No Stn No Odor SG in Blk Sh

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

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

60" CFS @ 4826' Ls Wht MicroIn-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 MicroIn-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 MicroIn-FxIn Fair-Med IxIn Pin-Pt Por (w/SG & SO Under Heat in Wtr & Tr Gillsonitic 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 MicroIn-FxIn Fair-Med IxIn Pin-Pt Por (w/Pyr Inklus) (w/SG & SO Under Heat in Wtr & Tr Gillsonitic 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 Gillsonitic 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 Inklus) (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 MicroIn 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 MicroIn 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 MicroIn 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-Pink Dec-Lt Org Dec Translu- Op Shp Vit Fresh (50% of Spl) Ls Wht MicroIn 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 MicroIn 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

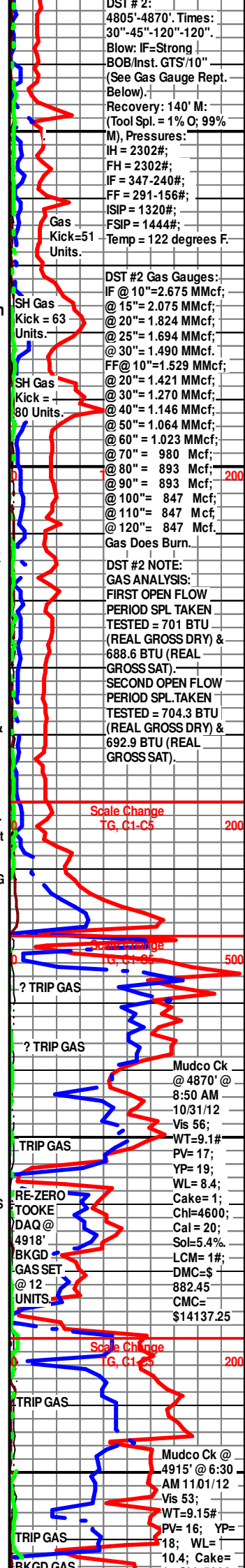
Ls Wht -Crm MicroIn Dns Micritic (25% of Spl) Grad Dolo/Ls Wht-Crm-Yell (w/Cht Wht Inklus) Dns Micrite 25% of Spl Cht AA Wht Translu-Op Shp-Vit (30% of Spl) Sh Blk Carb-Char-Gry-Aqua-Maroon (20% of Spl) No Odor Tr ? Min flor (Dolo) No Stn NS

Ls Wht -Crm MicroIn 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 MicroIn 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 MicroIn 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



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 #2 NOTE:
GAS ANALYSIS:
FIRST OPEN FLOW
PERIOD SPL TAKEN
TESTED = 701 BTU
(REAL GROSS DRY) &
688.6 BTU (REAL
GROSS SAT).
SECOND OPEN FLOW
PERIOD SPL TAKEN
TESTED = 704.3 BTU
(REAL GROSS DRY) &
692.9 BTU (REAL
GROSS SAT).

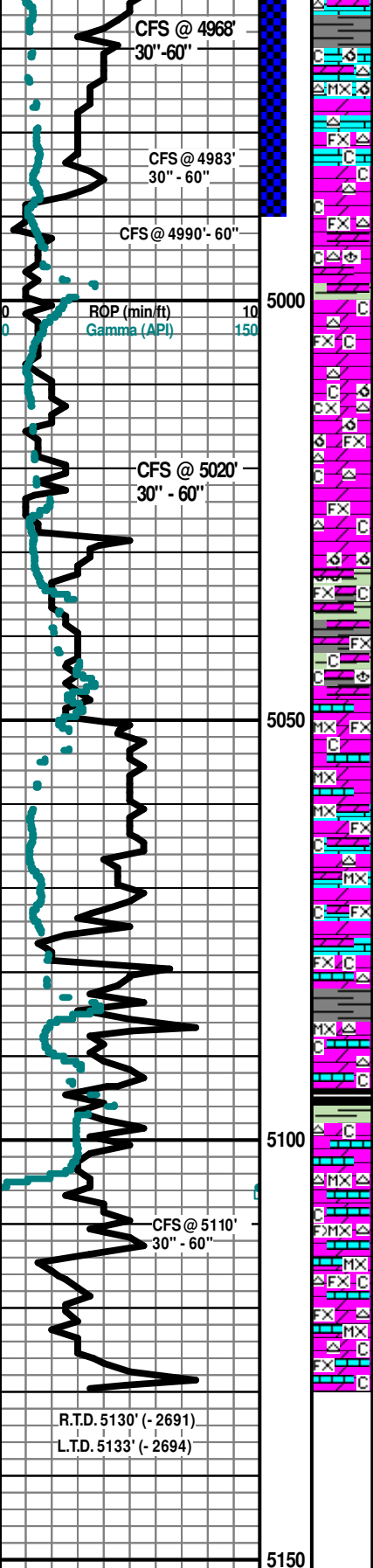
Scale Change
TG, C1-C5

Scale Change
TG, C1-C5

Mudco Ck
@ 4870' @
8:50 AM
10/31/12
Vis 56;
WT=9.1#
PV= 17;
YP= 19;
WL= 8.4;
Cake= 1;
Chl=4600;
Cal= 20;
Sol=5.4%
LCM= 1#;
DMC=\$
882.45
CMC=\$
\$14137.25

Scale Change
TG, C1-C5

Mudco Ck @
4915' @ 6:30
AM 11/01/12
Vis 53;
WT=9.15#
PV= 16; YP= 18;
WL= 10.4; Cake=



30" @ 4983' Ls/Dolo Crm-Wht-Gry MicroxIn Dns Barren Grad FxIn Fair-Med Pin-Pt IxIn 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 MicroxIn Grad FxIn Med Pin-Pt IxIn 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 FxIn Grad Med-Good Pin-Pt IxIn Por Grad Med -Good OOM Por Med-Good Dissolu Good Leaching Grad FxIn ? 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 FxIn Good Vug (Small-Med) Pin-Pt IxIn 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 FxIn Med Vug InIn 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 FxIn Grad Med-Good Pin-Pt IxIn Por Grad Med-Good OOM Por Med-Good Dissolu Good Vug Leaching Mostly FxIn-MxIn IxIn Por Cht Crm-Peach-Lt Org Translu-Op Shp Vit Chalk Dec Sh Aqua - Char - Grn - Olive- Maroon Soft-Fissil No Odor No Stn No Flor NS No Odor No Flor No Stn NS

Dolo Crm-Wht FxIn Grad Good IxIn 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 FxIn Grad Med-Good IxIn 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 FxIn Grad Med-Good IxIn 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 MicroxIn-FxIn Poor IxIn Por Chalk (Abd) Sh Char - Grn - Aqua-Maroon-Olive No Odor No Flor No Stn NS

Ls/Dolo Wht-Crm MicroxIn-FxIn Poor IxIn 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 MicroxIn-FxIn Poor IxIn Por Grad Tr Med XIn (w/Vug IxIn Por) Chalky Sh Char- Grn -Aqua (Blue)- Maroon - Olive No Odor No Flor No Stn NS

Dolo/Ls Gry-Crm-Wht MicroxIn-FxIn Poor IxIn 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 MicroxIn-FxIn Poor IxIn Por Micritic Grad Poor-Fair IxIn Por (w/Glacu Inlus) V Abd Cht Frosted Wht-Lt Gry (w/OOL & Fos (Spic) Inlus 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 MicroxIn-FxIn Poor IxIn Por Micritic Grad Poor-Fair IxIn Por (w/Glacu Inlus) V Abd Cht Frosted Wht-Lt Gry (w/OOL & Fos (Spic) Inlus 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 MicroxIn-FxIn Poor IxIn Por Micritic Grad Poor-Fair IxIn Por (w/Glacu Inlus) V Abd Cht Frosted Wht-Lt Gry (w/OOL & Fos (Spic) Inlus 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 MicroxIn-FxIn Poor IxIn Por Micritic Grad Poor-Fair IxIn Por (w/Glacu Inlus) V Abd Cht Frosted Wht-Lt Gry (w/OOL & Fos (Spic) Inlus 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.

