



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

Well Name: GERALD JANTZ #1-26 (NW)
Location: SE-SE-NW-NW 1/4
License Number: A.P.I. # 15-069-20368-00-00
Spud Date: 3/27/12
Surface Coordinates: 1024' FNL & 1121' FWL

Region: Gray Co., KS.
Drilling Completed: 4/4/12

Bottom Hole
Coordinates:
Ground Elevation (ft): 2755' K.B. Elevation (ft): 2768'
Logged Interval (ft): 1875' To: 4406' Total Depth (ft): 4400'
Formation: Lanssing
Type of Drilling Fluid: Chemical Mud

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Falcon Exploration, Inc.
Address: 125 North Market Street, Ste. #1252
Wichita, Kansas 67202

GEOLOGIST

Name: David P. Williams
Company: DW Energy, LLC
Address: 312 North Broadview Street
Wichita, Kansas 67208

Casing & Deviation Survey's

Spud at 10:45 AM on 03/27/12. Drilled 12-1/4" to 1880'. Ran 46 joints of new 24#, 8-5/8" casing. Tallied 1856'. Set at 1875' KB. Welded straps on GS & bottom 3 joints, then tack welded all collars. Float insert in 1st collar. Centralizers (3) 14-23-33. Baskets (3) 1-19-42. Cemented with 675 sks 65/35 Poz; 6% Gel; 3% CC, 1/4# FS.; Tailed with 150 sks Class A; 2% Ge; 3% CC. Cement did circulate to pit. Plug down at 5:45 AM on 03/29/12. Allied Cementing ticket #53375.

Deviation Survey's Taken: @ 1880' = 1/2 degree; @ @ 3530' = 3/4 degrees; @ 4245' = 1/2 degree; @ 4400' = 1 degree.

DSTs

DST # 1 3461'-3532'. Times: 5"- 90"- 45"- 90"; Blow: IF Weak 2" Surface Blow. FF Weak 2" Blow Sli Inc to 4". Recovery: 100' DM (100% M). Pressures: IH= 1589#; FH= 1606#; IF= 22-24#; FF= 34-62#; ISIP= 915#; FSIP= 858#. Temp= NC degrees F.

DST # 2 4188'-4245'. Times: 5"- 60"- 40"- 30"; Blow: IF= Weak 1/2" Surface Blow. FF= No Blow Flushed Tool @ 20"= No Blow. Recovery: 600' DM (100% M). Pressures: IH= 2044#; FH= 2067#; IF= 18-22#; FF= 25-52#; ISIP= 1248#; FSIP= 1128#; Temp= NC degrees F.

Comments

After review of all of the pertinent geological and structural data, drill test test recoveries and reservoir pressures including electric logs analyses, it was recommended by all parties to plug and abandoned this test well as a dry hole..

Respectfully submitted,

David P. Williams, P. G.

ROCK TYPES

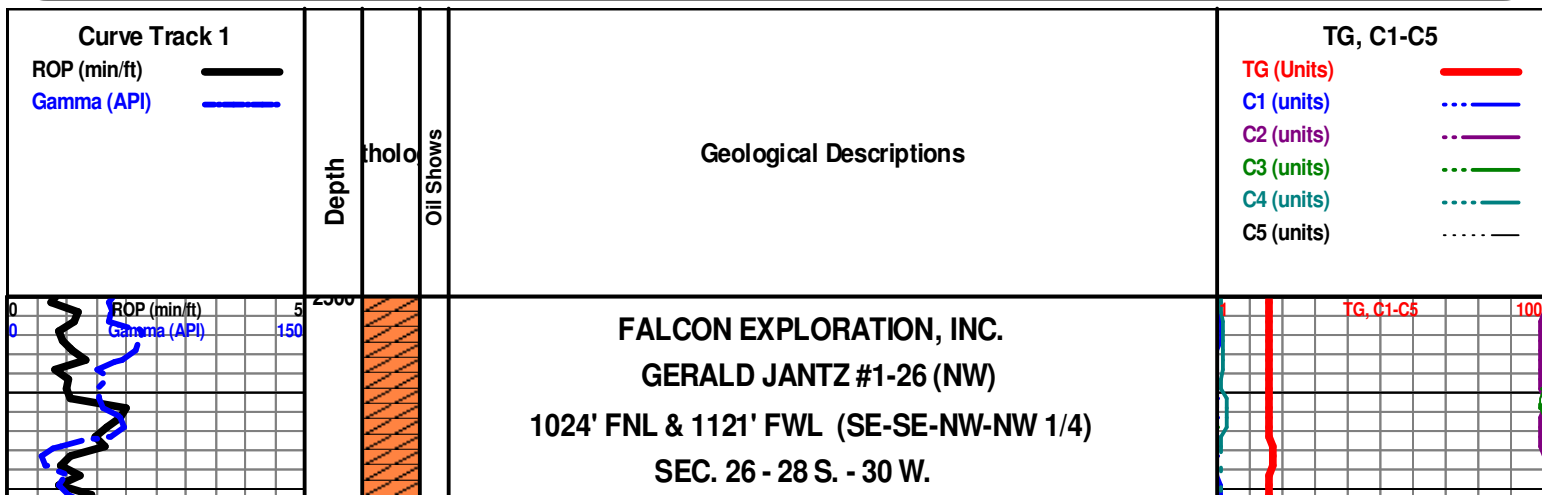
	Anhy		Clyst		Gry shale		Mrlst		Shgy
	Bent		Coal		Gyp		Red shale		Sltst
	Brec		Congl		Igne		Salt		Ss
	Carb sh		Dol		Lmst		Shale		Till
	Cht		Grn sh		Meta		Shcol		

ACCESSORIES

MINERAL		Hvmin		Belm		Pellet	TEXTURE
	Anhy		Kaol		Bioclst		Boundst
	Arggrn		Marl		Brach		Chalky
	Arg		Minxl		Bryozoa		Cryxln
	Bent		Nodule		Cephal	STRINGER	Earthy
	Bit		Phos		Coral		Finexln
	Brecfrag		Pyr		Crin		Grainst
	Calc		Salt		Echin		Lithogr
	Carb		Sandy		Fish		Microxln
	Chtdk		Silt		Foram		Mudst
	Chtlt		Sil		Fossil		Packst
	Dol		Sulphur		Fuss		Wackest
	Feldspar	FOSSIL			Gastro		
	Ferrpel		Algae		Oolite		
	Ferr		Amph		Oomold		
	Glau				Ostra		
	Gyp				Pelec		

OTHER SYMBOLS

POROSITY		Vuggy	ROUNDING		Even		Core	
	Earthy	SORTING		Rounded		Spotted		
	Fenest			Subrnd		Ques	EVENT	
	Fracture			Subang		Dead		Rft
	Inter			Angular	INTERVAL			Sidewall
	Moldic		OIL SHOW		Gas show		Dst_alt	
	Organic						Dst	
	Pinpoint							



GRAY COUNTY, KANSAS

A.P.I. #15-069-20368-00-00

ELEVATION : 2768' K.B. ; 2755' G.L.

Stone Coral Anhydrite Sample Top = 1662' (+ 1106) Base = 1780' (+988).

Deviation Survey's Taken: @ 1880' = 1/2 degree; @ @ 3530' = 3/4 degrees; @ 4245' = 1/2 degree; @ 4400' = 1 degree.

Geologist: David P. Williams on location @ 4:15 PM 3-30-12 @ 2600'

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

Begin 20' Sample Examination @ 2600'.

Anhy/Gyp Abd AA Sh Red-Gry Abd AA Soft Tr Dolo Crm-Gry FxIn-Microxn Poor IxIn Por Grad Sli Ls Gry Sh Red-Gry Soft V Abd No Odor No Stn No Flor NS

Anhy/Gyp Abd AA Sh Red-Gry Abd AA Soft Tr Dolo Crm-Gry FxIn-Microxn Poor IxIn Por Grad Sli Ls Gry Sh Red-Gry Soft V Abd No Odor No Stn No Flor NS

CHASE GROUP 2639' (+129)

Dolo Gry-Crm FxIn-Microxn Poor IxIn Por Sh Red-Gry-Char Soft Abd No Odor No Stn No Flor NS

KRIDER 2666' (+ 102)

Dolo Gry-Crm FxIn-Microxn Poor IxIn Por Sh Red-Gry-Char Soft Abd No Odor No Stn No Flor NS

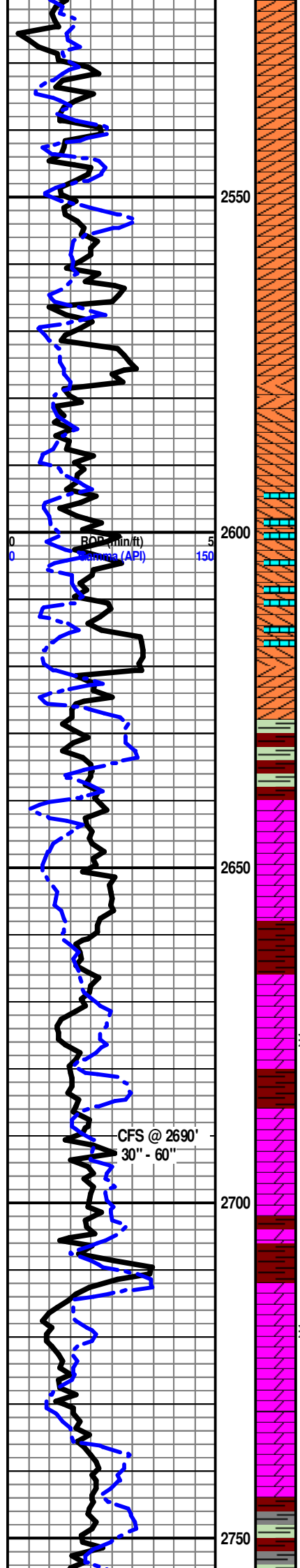
30" CFS @ 2690' Dolo Wht-Crm-Gry FxIn-Microxn Med IxIn Por w/Tr Vug IxIn Por Sh Red-Gry-Char Soft Abd No Odor No Stn Lt Grn Flor (Scat Throughout Spl) Fair-Med SG

60" CFS @ 2690' Dolo Wht-Crm-Gry FxIn-Microxn Med IxIn Por w/Tr Vug IxIn Por Sh Red-Gry-Char Soft Abd No Odor No Stn Lt Grn Flor (Scat Throughout Spl) Fair-Med SG

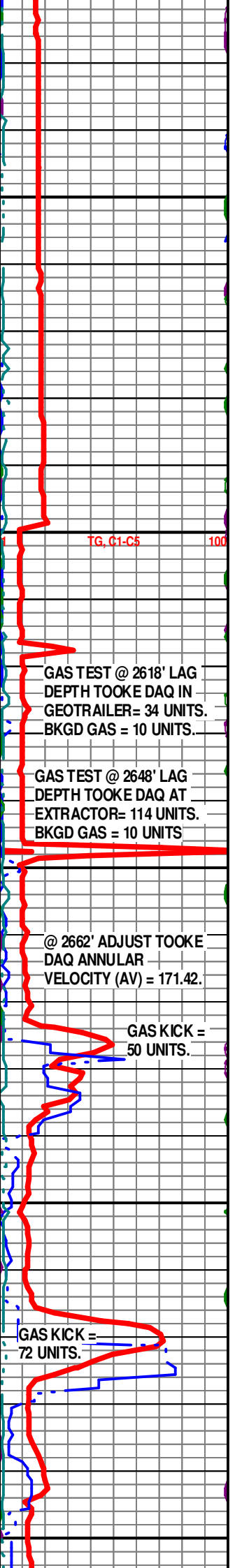
WINFIELD 2712' (+ 56)

Much Spl. Debris Sh Red-Grn Fissil-Soft V Abd (Spl Wash Red) Dolo Crm-Gry FxIn Poor IxIn Por No Odor No Stn No Flor NS

Much Spl. Debris Sh Red-Grn Fissil-Soft V Abd (Spl Wash Red) Dolo Crm-Gry FxIn Poor IxIn Por No Odor No Stn No Flor NS



Geological descriptions and stratigraphic units including Chase Group, Krider, and Winfield.



TOWANDA 2765' (+ 3)

Dolo Crm-Gry FxIn Poor IxIn Por Sh Red-Grn Fissil-Soft V Abd (Spl Wash Red) No Odor No Stn No Flor NS

Dolo Crm-Gry FxIn Poor IxIn Por Sh Red-Grn Fissil-Soft V Abd (Spl Wash Red) No Odor No Stn No Flor NS

FORT RILEY 2810' (- 42)

Ls Crm-Gry FxIn Poor IxIn Por Grad Tr/Dolo AA Sh Red-Grn Fissil-Soft V Abd (Spl Wash Red) No Odor No Stn No Flor NS

Ls Crm-Gry FxIn Poor IxIn Por Grad Tr/Dolo AA Sh Red-Grn Fissil-Soft V Abd (Spl Wash Red) No Odor No Stn No Flor NS

Ls Crm-Gry FxIn Poor IxIn Por Grad Tr/Dolo AA Sh Red-Grn Fissil-Soft V Abd (Spl Wash Red) No Odor No Stn No Flor NS

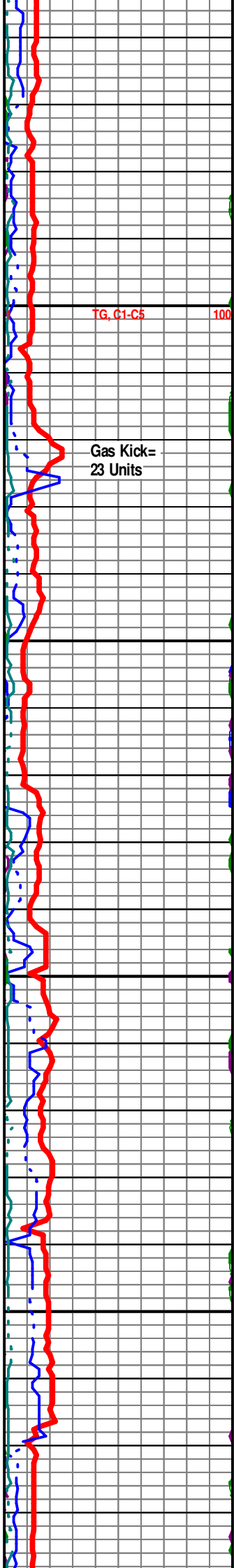
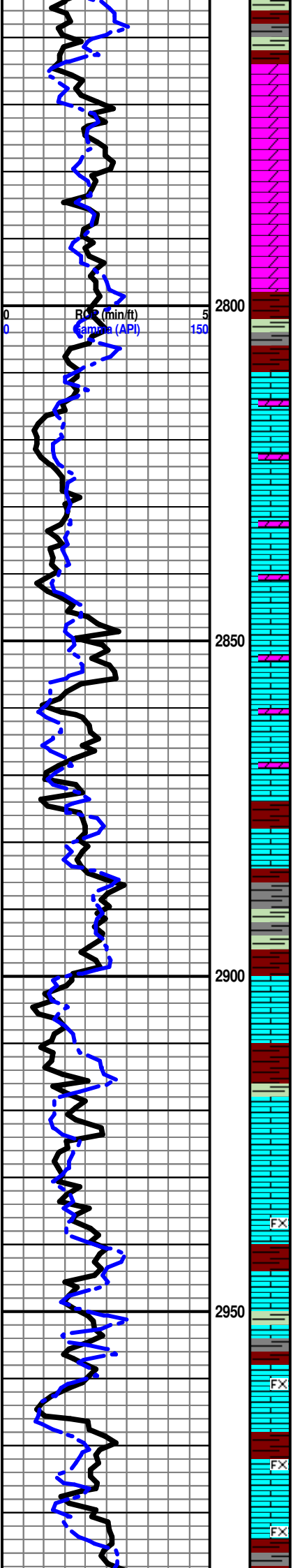
Ls Crm-Gry FxIn Poor IxIn Por Sh Red-Grn Fissil-Soft V Abd (Spl Wash Red) No Odor No Stn No Flor NS

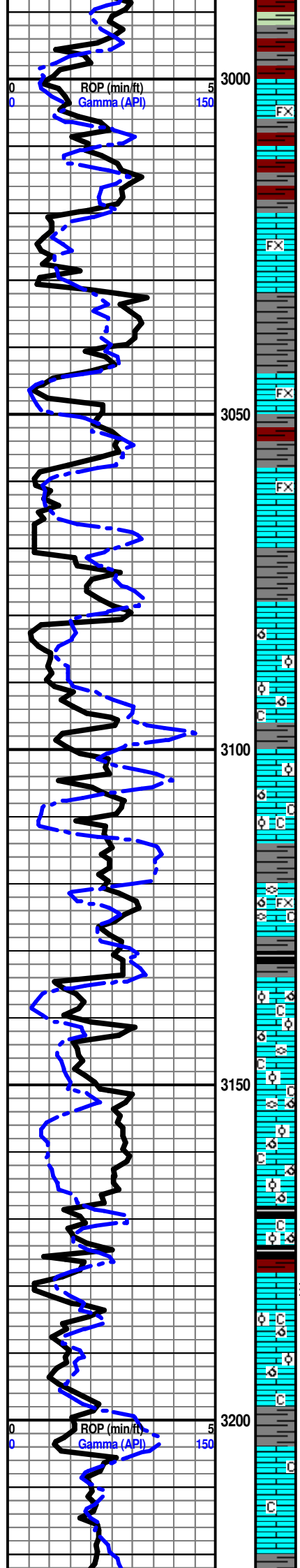
Ls Crm-Gry FxIn Poor IxIn Por Sh Red-Grn Fissil-Soft V Abd (Spl Wash Red) No Odor No Stn No Flor NS

LS Crm-Wht FxIn Poor IxIn Por Grad Sm Pin-Pt FxIn Por Inc Abd Sh Red-Char-Gry Soft Fissil AA No Odor No Flor No Stn No Flor NS

LS Crm-Wht FxIn Poor IxIn Por Grad Sm Pin-Pt FxIn Por Inc Abd Sh Red-Char-Gry-Grn Soft Fissil AA Cht Gry Op Shp Vit Chalk Wht No Odor No Flor No Stn No Flor NS

LS Crm-Wht FxIn Poor IxIn Por Grad Sm Pin-Pt FxIn Por Inc Abd Sh Red-Char-Grv-Grn-Aqua Soft Fissil Chalk Wht No Odor No Flor No Stn No Flor NS





LS Crm-Wht Fxln Poor Ixln Por Grad Sm Pin-Pt Fxln Por Inc Abd Sh
 Red-Char-Gry-Grn-Aqua Soft Fissil Chalk Wht No Odor No Flor No Stn No Flor NS

LS Crm-Wht Fxln Poor Ixln Por Grad Sm Pin-Pt Fxln Por Inc Abd Sh
 Red-Char-Gry-Grn-Aqua Soft Fissil Chalk Wht No Odor No Flor No Stn No Flor NS

LS Wht-Crm-Gry Fxln Poor Ixln Por Grad Sm Pin-Pt Fxln Por Grad Micritic Dsn
 Barren Sh Red-Char-Gry-Grn Soft Fissil Inc Cht Gry Op Shp Vit Chalk Wht No
 Odor No Flor No Stn No Flor NS

COTTONWOOD 3058' (- 290)

LS Wht-Crm-Gry Fxln Poor Ixln Por Grad Sm Pin-Pt Fxln Por Grad Micritic Dsn
 Barren Sh Red-Char-Gry-Grn Soft Fissil Inc Chalk Wht No Odor No Flor No Stn No
 Flor NS

LS Wht-Crm-Gry Poor OOM Por Fair InterOOM/OOL Por w/OOL in pl w/Poor
 Leaching Poor Disolu Por Barren Grad Fxln Ixln Por Grad Sm Pin-Pt Fxln Por Grad
 Micritic Dsn Barren Sh Red-Char-Grn Soft No Odor No Flor No Stn No Flor NS

NEVA 3100' (- 332)

LS Wht-Crm-Gry Poor OOM Por Fair InterOOM/OOL Por w/OOL in pl w/Poor
 Leaching Poor Disolu Por Barren Grad Fxln Ixln Por Grad Sm Pin-Pt Fxln Por Grad
 Micritic Dsn Barren Sh Red-Char-Grn Soft Fissil Dec Chalk Wht Soft Abd No Odor
 No Flor No Stn No Flor NS

RED EAGLE 3135' (- 367)

LS Wht-Crm-Gry Poor OOM Por Fair InterOOM/OOL Por w/OOL in pl w/Poor
 Leaching Poor Disolu Por Barren Grad Fxln Ixln Por Grad Sm Pin-Pt Fxln Por Grad
 Micritic Dsn Barren Fos (Fuss) Sh Red-Char-Grn Soft Fissil Dec Chalk Wht Soft
 Abd No Odor No Flor No Stn No Flor NS

LS Wht-Crm-Gry Poor OOM Por Fair InterOOM/OOL Por w/OOL in pl w/Poor
 Leaching Poor Disolu Por Barren Grad Fxln Ixln Por Grad Sm Pin-Pt Fxln Por Grad
 Micritic Dsn Barren Fos (Fuss) Sh Red-Char-Grn Soft Fissil Dec Chalk Wht Soft
 Abd No Odor No Flor No Stn No Flor NS

DISPLACE MUD SYSTEM @ 3168'

LS Wht-Crm-Gry Fxln Poor Ixln Por Grad Sm Pin-Pt Fxln Porw/Tr Pyr Includ Grad
 Poor OOM Por Poor InterOOM/OOL Por w/OOL (V Small) in pl w/Poor Leaching
 Poor Disolu Por Barren Chalk Wht Soft Sh Red-Char-Gry-Grn Soft Fissil Inc No
 Odor No Flor No Stn No Flor NS

LS Wht-Crm-Gry Fxln Ixln Por Grad Micritic Sh Gm-Red Soft Fissil Chalk Wht
 Abd No Odor No Flor No Stn No Flor NS

TG, C1-C5 100

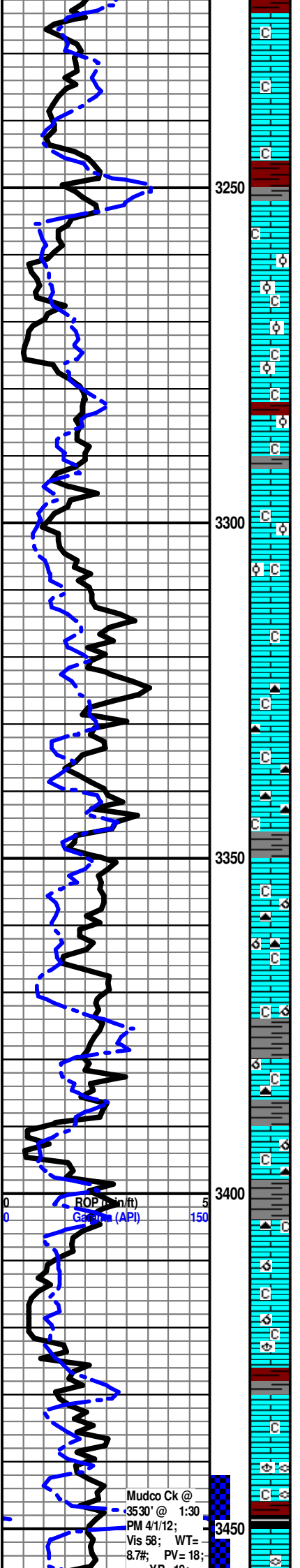
@ 3012' ADJUST
 TOOKE DAQ AV =
 167.62.

REZERO TOOKE
 DAQ @ 3059'.
 BKGD GAS = 10
 UNITS.

Mudco Ck @
 3054'
 11:45 PM
 3/31/12 Vis
 30; WT= 2;
 9.7; PV= 2;
 YP= 3;
 WL= NC;
 Cake= NC;
 Chl= 35000;
 Cal= Hvy;
 Sol= 8.0%.
 LCM= Tr #;
 DMC=\$
 4941.05;
 CMC=\$
 10,992.55

SH GAS KICK =
 47 UNITS.

TG, C1-C5 100



LS Wht-Crm-Gry FxIn IxIn Por Grad Micritic Sh Grn-Red Soft Fissil Chalk Wht Abd No Odor No Flor No Stn No Flor NS

FORAKER 3254' (- 486)

LS Crm-Gry FxIn Poor IxIn Por Grad OOL Por Tr/OOM Por Poor Develop Poor Leaching Soft Sh Grn-Red Soft Fissil Chalk Wht V Abd No Odor No Flor No Stn No Flor NS

REZERO TOOKE
DAQ @ 3261'.
BKGD GAS = 12
UNITS.
@ 3263' ADJUST
TOOKE DAQ AV =
165.56.

LS Crm-Gry FxIn Poor IxIn Por Grad OOL Por Tr/OOM Por Poor Develop Poor Leaching Soft Sh Grn-Red Soft Fissil Chalk Wht V Abd No Odor No Flor No Stn No Flor NS

LS Wht-Crm-Gry FxIn IxIn Por Grad Micritic Tr/Glacu InlusSh Grn-Red Soft Fissil Chalk Wht Abd No Odor No Flor No Stn No Flor NS

LS Wht-Crm-Gry FxIn IxIn Por Grad Micritic Tr/Glacu InlusSh Grn-Red Soft Fissil Chalk Wht Abd No Odor No Flor No Stn No Flor NS

LS Wht-Crm-Gry FxIn IxIn Por Grad Micritic Cht Drk-Gry Op Shp Vit Sh Grn-Red Soft Fissil Chalk Wht Abd No Odor No Flor No Stn No Flor NS

LS Wht-Crm-Gry FxIn IxIn Por Grad Micritic Dsn Barren Grad Tr/Poor OOM Por Poor InterOOM Por Poor Leaching Poor Disolu Barren Dec Sh Grn-Red-Char Soft Fissil Cht Gry Op Shp Vit Chalk Wht Abd No Odor No Flor No Stn Fair ? Min Flor (Lt Grn) NS

LS Wht-Crm-Gry FxIn IxIn Por Grad Micritic Dsn Barren Grad Tr/Poor OOM Por Poor InterOOM Por Poor Leaching Poor Disolu Barren Dec Sh Grn-Red-Char Soft Fissil Cht Gry Op Shp Vit Chalk Wht Abd No Odor No Flor No Stn Fair ? Min Flor (Lt Grn) NS

FALL CITY 3390' (- 622)

LS Wht-Crm-Gry FxIn IxIn Por Grad Micritic Dsn Barren Grad Tr/Poor OOM Por Poor InterOOM Por Poor Leaching Poor Disolu Barren Dec Sh Grn-Red-Char Soft Fissil Cht Gry Op Shp Vit Chalk Wht Abd No Odor No Flor No Stn Fair ? Min Flor (Lt Grn) NS

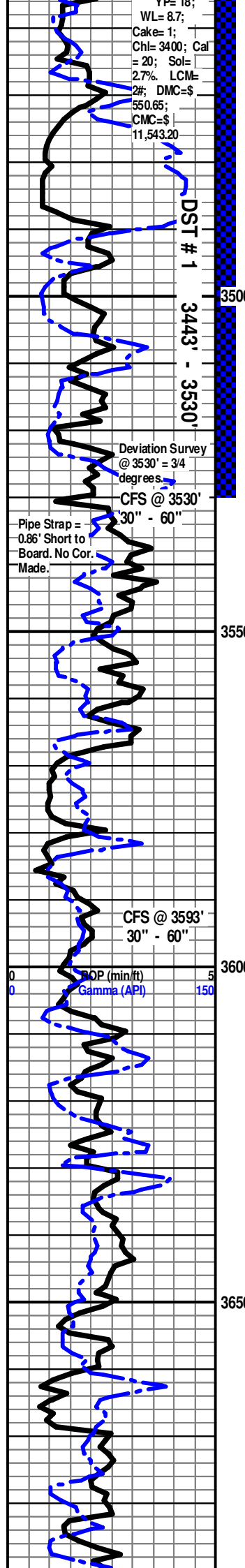
TG, C1-C5 100

LS Crm-Gry FxIn IxIn Por Micritic Dsn No Vis Por Barren Tr OOM Por AA Sh Grn-Red Soft Fissil Dec Fos (Brach) Chalk Wht Abd No Odor No Flor No Stn Fair ? Min Flor (Lt Grn) NS

LS Crm-Gry FxIn IxIn Por Micritic Dsn No Vis Por Barren Sh Grn-Red Soft Fissil Dec Fos (Brach, Fuss) Chalk Wht Abd No Odor No Flor No Stn Fair ? Min Flor (Lt Grn) NS

DST # 1 3461'-3532'.
Times: 5'- 90"- 45"- 90";
Blow: IF= Weak 2"
Surface Blow

Begin 10' Sample Examination @ 3480'.



LS Crm-Gry FxIn IxIn Por Micritic Dsn No Vis Por Barren Sh Grn-Red Soft Fissil
 Dec Fos (Brach, Fuss) Chalk Wht Abd No Odor No Flor No Stn Fair ? Min Flor (Lt
 Grn) NS

ROOT SHALE 3468' (- 700)

Sh Red-Gry Fissil-Soft V Abd (Spl Wash Red) LS Crm-Gry FxIn Micritic AA Poor
 IxIn Por No Odor No Stn ? Min Flor AA NS

Sh Red-Gry Fissil-Soft V Abd (Spl Wash Red) LS Crm-Gry FxIn Micritic AA Poor
 IxIn Por No Odor No Stn ? Min Flor AA NS

STOTLER 3490' (- 722)

LS Wht-Crm-Gry MicroIxIn-FxIn IxIn Por Micritic Dsn Barren Tr/Fair-Med OOM Por
 w/OOL in pl (Small-Med) Poor-Fair InterOOM/OOL Por Fair Leaching Fair Disolu
 Sh Grn-Red Soft Chalk Wht Abd No Odor Fair Flor (Lt Grn-Wht) No Stn SSG

30" CFS @ 3530' LS Wht-Crm-Gry MicroIxIn-FxIn IxIn Por Micritic Dsn Barren Grad
 Tr/Fair OOM Por w/OOL (Small) in pl Fair InterOOM/OOL Por Fair Leaching Fair
 Disolu Sh Grn-Red Soft Fos (Brach) Chalk Wht Abd No Odor Med-Good Flor (Lt
 Wht in 65% of Spl) No Stn SSG

60" CFS @ 3530' LS Wht-Crm-Gry MicroIxIn-FxIn IxIn Por Micritic Dsn Barren Grad
 Tr/Fair OOM Por w/OOL (Small) in pl Fair InterOOM/OOL Por Fair Leaching Fair
 Disolu Sh Grn-Red Soft Fos Chalk Wht Abd No Odor Med-Good Flor (Lt Wht in
 75% of Spl) No Stn SSG

LS Gry-Crm MicroIxIn-FxIn IxIn Por Micritic Dsn Barren Chalk Wht Abd Fos (Crin,
 Fuss) Sh Gry Soft No Odor Tr/ Min Flor (Lt Wht) No Stn NS

LS Wht-Crm-Gry MicroIxIn-FxIn IxIn Por Micritic Dsn Barren Chalk Wht V Abd Sh
 Gry Soft No Odor Min Flor (Lt Wht) AA No Stn NS

LS Wht-Crm-Gry MicroIxIn-FxIn IxIn Por Micritic Dsn Barren Chalk Wht V Abd Sh
 Gry-Char-Tr/Aqua Soft-Fissil No Odor ? Med Min Flor (Lt Wht) No Stn NS

TARKIO 3565' (- 797)

30" CFS @ 3593' Ls Wht-Crm FxIn IxIn Por Grad Fair OOM Porw/OOL in pl
 w/Fair-Med InterOOM Por Poor Leaching Poor Disolu Sh Grn-Red-Char Soft Fissil
 Cht Wht Op Shp Vit Chalk Wht Soft No Odor No Stn Med Flor (Lt Grn-Lt Wht-35%
 of Spl) NS

60" CFS @ 3593' Ls Wht-Crm FxIn IxIn Por Grad Fair OOM Porw/OOL in pl
 w/Fair-Med InterOOM Por Poor Leaching Poor Disolu Sh Grn-Red-Char Soft Fissil
 Cht Wht Op Shp Vit Chalk Wht Soft No Odor No Stn Med Flor (Lt Grn-Lt Wht-25%
 of Spl) Dec NS

Ls Wht-Gry MicroIxIn-FxIn IxIn Por Micritic Dsn Barren Chalk Wht V Abd Cht
 Crm-Gry Op Shp Fos (Fuss) Sh Gry-Char-Red Soft No Odor ? Med Min Flor (Lt
 Wht) No Stn NS

Ls Crm-Gry MicroIxIn-FxIn IxIn Por Micritic Dsn Barren Chalk Wht V Abd Cht
 Crm-Gry Op-Transl Shp Vit Fos (Crin, Fuss) Sh Gry-Char Soft No Odor ? Med Min
 Flor (Lt Wht) No Stn NS

Ls Wht-Crm-Gry MicroIxIn-FxIn IxIn Por Micritic Grad Poor Pin-Pt XIn Por Cht Gry
 Op-Shp-Vit Chalk Wht V Abd Sh Gry-Char-Blk Carb Fissil Soft No Odor ? Med Min
 Flor (Lt Wht) No Stn NS

Ls Wht-Gry MicroIxIn-FxIn IxIn Por Micritic Dsn Barren Chalk Wht Abd Cht Gry
 Op-Shp-Vit Sh Gry-Char-Brn Soft No Odor ? Med Min Flor Dec No Stn NS

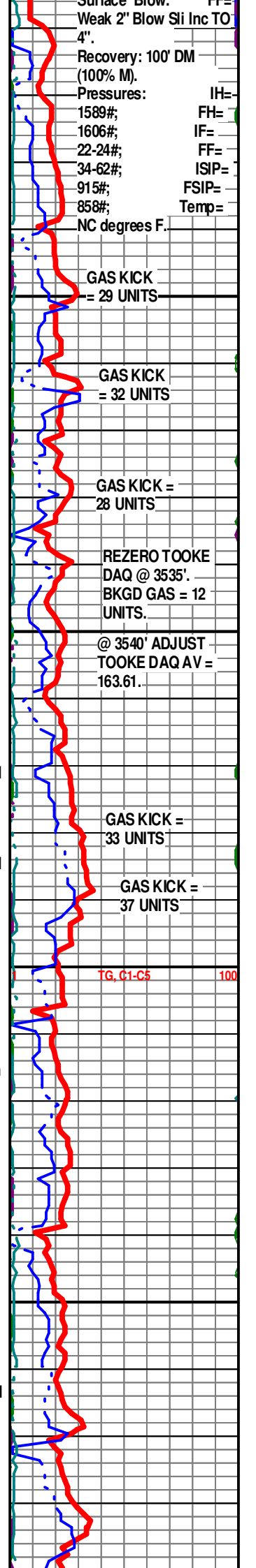
Ls Wht-Crm MicroIxIn-FxIn IxIn Por Micritic Dsn Barren Grad Tr/Poor OOM Por
 w/OOL (Small) in pl Poor InterOOM Por Poor Leaching Poor-No Disolu Sh
 Char-Brn Soft Fos (Crin) Chalk Wht Abd No Odor ? Min Flor (Dull Wht) Inc No Stn
 NS

Ls Wht-Gry FxIn IxIn Pin-Pt Por Mostly Micritic AA Dsn Barren Chalk Wht Abd Sh
 Gry-Char-Tr/ Blk-Carb FissilGry-Char Soft No Odor No Flor No Stn NS

Ls Wht-Crm-Gry FxIn IxIn Pin-Pt Por Mostly Micritic AA Dsn Barren Chalk Wht Abd
 Sh Char-Gry Fissi No Odor No Flor No Stn NS

Ls Wht-Crm-Gry FxIn Tr/Poor IxIn Por Mostly Micritic AA Dsn Barren Chalk Wht V
 Abd Cht-Wht-Tan Op Shp Vit Sh Gry-Char Soft No Odor No Flor No Stn NS

Ls Wht-Crm-Gry FxIn Tr/Poor IxIn Por Mostly Micritic AA Dsn Barren Chalk Wht
 Abd Sh Gry-Char Soft No Odor No Flor No Stn NS



BERN 3695' (- 927)

Ls Wht-Crm-Gry Fxln Tr/Poor lxln Por Mostly Micritic Granular Pin-Pt Por (Poor) Dsn Barren Cht Wht-Brn Op Shp Vit Chalk Wht-Brn Abd Sh Gry-Char Soft No Odor No Flor No Stn NS

Ls Wht-Crm-Gry Fxln Tr/Poor lxln Por Mostly Micritic AA Dsn Barren Chalk Wht V Abd Sh Gry-Char Soft No Odor No Flor No Stn NS

Ls Wht-Crm Fxln Tr/Poor lxln Por Mostly Micritic AA Dsn Barren Chalk Wht Abd Fos (Fuss Sh Tr/ Char-Red Soft No Odor No Flor No Stn NS

Ls Wht-Crm Fxln Tr/Poor lxln Por Mostly Micritic AA Dsn Barren Chalk Wht Abd Cht Amber-Gry Transl-Op Shp Vit w/Fos (Fuss) Inclus Sh Tr/ Char-Grn-Aqua Soft No Odor No Flor No Stn NS

Ls Wht-Crm Fxln Tr/Poor lxln Por Mostly Micritic AA Dsn Barren Chalk Wht Abd Char-Grn-Aqua Red Soft No Odor No Flor No Stn NS

Ls Wht-Crm Fxln Tr/Poor lxln Por Mostly Micritic AA Dsn Barren Chalk Wht Abd Cht Amber-Gry Transl-Op Shp Vit Sh Tr/ Char-Red Soft No Odor No Flor No Stn NS

Ls Wht-Crm-Gry Fxln Poor lxln Por Mostly Micritic Dsn Barren Chalk Wht Abd Cht Wht Op Shp Vit Sh Blk Carb-Char-Grn Fissil Soft No Odor No Flor No Stn NS

TOPEKA 3770' (- 1002)

Ls Wht-Crm-Gry Fxln Poor lxln Por Mostly Micritic Dsn Barren Chalk Wht Abd Cht Wht Op Shp Vit Sh Char-Grn Fissil Soft No Odor No Flor No Stn NS

Ls Wht-Crm-Gry Fxln Poor lxln Por Mostly Micritic Dsn Barren Chalk Wht Abd Cht Wht Op Shp Vit Sh Blk Carb-Char-Grn Fissil Soft No Odor No Flor No Stn NS

Ls Wht-Crm-Gry Fxln Poor lxln Por Mostly Micritic Dsn Barren Chalk Wht Abd Cht Wht-Gry Op Shp Vit Fos (Fuss) Sh Blk Carb-Char Fissil Soft No Odor No Flor No Stn NS

Ls Wht w/Pyr Inclus-Crm Fxln Poor lxln Por Mostly Micritic Dsn Barren Chalk Wht Abd Cht Wht-Gry Op Shp Vit Sh Char-Red Fissil Soft No Odor No Flor No Stn NS

Ls Wht-Crm Fxln Poor lxln Por Mostly Micritic Dsn Barren Chalk Wht V Abd Cht Wht-Gry Transl- Op Shp Vit Sh Char-Red Fissil Soft No Odor No Flor No Stn NS

Ls Wht-Crm Fxln Poor lxln Por Mostly Micritic Dsn Barren Chalk Wht V Abd Cht Wht-Gry Transl- Op Shp Vit Sh Char-Gry-Red Fissil Soft No Odor No Flor No Stn NS

Ls Wht-Crm Fxln Poor lxln Por Mostly Micritic Dsn Barren Chalk Wht V Abd Cht Smoky Drk Gry Transl- Op Shp Vit Sh Char-Gry-Red Fissil Soft No Odor No Flor No Stn NS

Ls Wht-Crm-Gry Fxln Poor lxln Por Mostly Micritic Dsn Barren Chalk Wht Abd Sh Char Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Gry Fxln Poor lxln Por Mostly Micritic Dsn Barren Chalk Wht Abd Sh Char Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Gry Fxln Poor lxln Por Mostly Micritic Dsn Barren Fos (Fuss) Chalk Wht Abd Sh Char-Grn Fissil No Odor No Flor No Stn NS

Ls Wht-Crm Fxln Poor lxln Por Mostly Micritic Dsn Barren Chalk Wht V Abd Cht Drk-Gry Transl-Op Shp Vit Fos (Fuss) Sh Char-Grn Fissil Soft No Odor No Flor No Stn NS

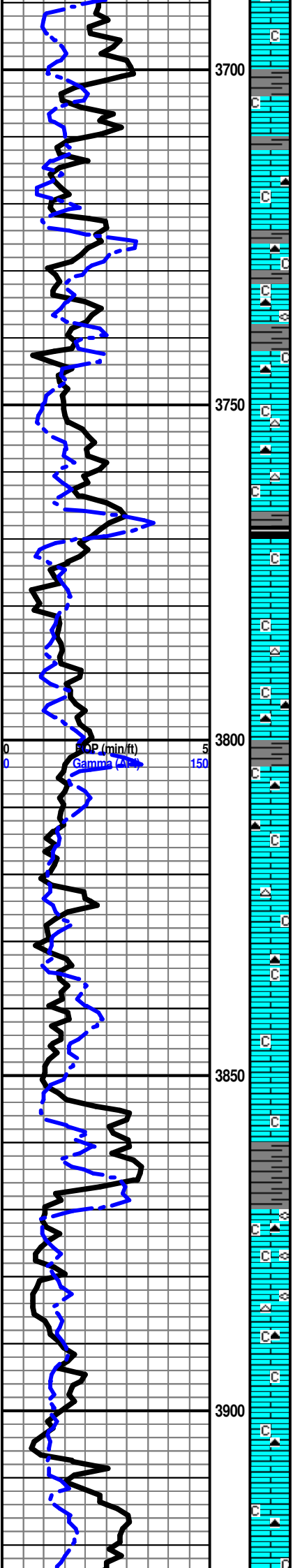
Ls Wht-Crm Fxln Poor lxln Por Mostly Micritic Dsn Barren Chalk Wht V Abd Cht Tan- Drk Gry Transl-Op Shp Vit Fos (Fuss) Sh Char-Grn Fissil Soft No Odor No Flor No Stn NS

Ls Wht-Crm MicroIn-Fxln lxln Por Micritic Dsn Barren Grad Tr/Poor OOM Por Poor InterOOM Por Poor Leaching Poor-No Disolu Sh Char- Soft Chalk Wht Abd No Odor No Flor No Stn NS

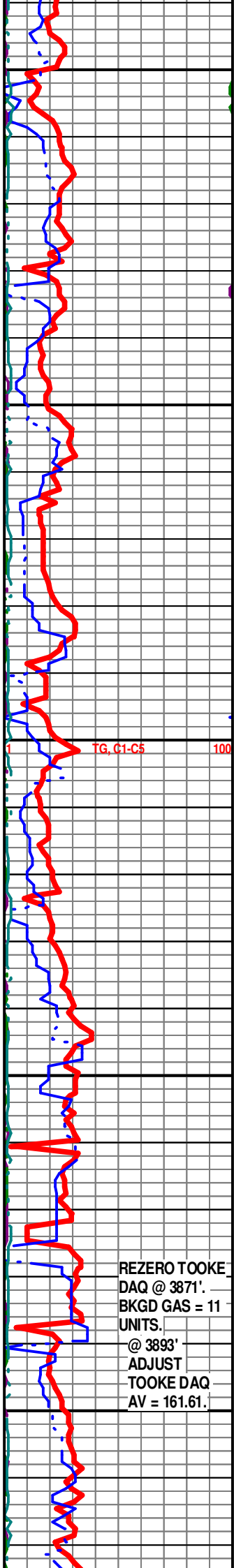
Ls Wht-Crm Fxln Poor lxln Por Mostly Micritic Dsn Barren Chalk Wht V Abd Cht Tan- Drk Gry Transl-Op Shp Vit Sh Char-Grn Fissil Soft No Odor No Flor No Stn NS

Ls Wht-Gry Fxln Poor lxln Por Mostly Micritic Dsn Barren Chalk Wht V Abd Cht Tan- Drk Gry Transl-Op Shp Vit Sh Char-Grn Fissil Soft No Odor No Flor No Stn NS

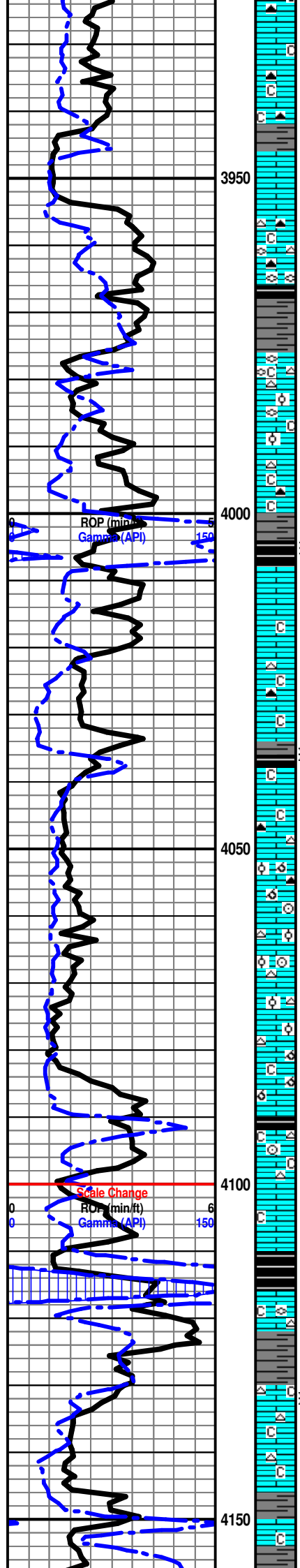
Ls Wht-Gry Fxln Poor lxln Por Mostly Micritic Dsn Barren Chalk Wht V Abd Cht Tan- Drk Gry Transl-Op Shp Vit Sh Char-Grn Fissil Soft No Odor No Flor No Stn NS



3700
3750
3800
3850
3900



REZERO TOOKE
DAQ @ 3871'.
BKGD GAS = 11
UNITS.
@ 3893'
ADJUST
TOOKE DAQ
AV = 161.61.



1an-Drk Gry Transl-Up Shp Vit Sh Char-Red Fissil Soft No Odor No Flor No Stn NS

Ls Wht-Gry FxIn Poor IxIn Por Mostly Micritic Dsn Barren Chalk Wht V Abd Cht Gry-Drk Gry Op Shp Vit Sh Char-Red Fissil Soft No Odor No Flor No Stn NS

LeCOMPTON 3946' (- 1178)

Ls Wht-Gry FxIn Poor IxIn Por Mostly Micritic Dsn Barren Chalk Wht V Abd Cht Gry-Drk Gry Op Shp Vit Sh Char-Gry Fissil Soft No Odor No Flor No Stn NS

LS Wht-Gry FxIn Poor IxIn Por Mostly Micritic Dsn Barren Chalk Wht Abd Cht Wht-Gry-Drk Gry Op Shp Vit Sh Char Fissil No Odor No Flor No Stn NS

LS Wht-Gry FxIn Poor IxIn Por Mostly Micritic Dsn Barren Chalk Wht Abd Cht Wht-Gry-Drk Gry Op Shp Vit Fos (Fuss) Sh Blk Carb-Char Fissil No Odor No Flor No Stn NS

LS Wht-Gry FxIn Poor IxIn Por Mostly Micritic Dsn Barren Chalk Wht Abd Cht Wht-Gry-Drk Gry Op Shp Vit Fos (Fuss) Sh Char Fissil No Odor No Flor No Stn NS

LS Wht-Crm-Gry FxIn Poor-Fair IxIn Por Grad Tr/OOL Por w/ OOL in pl Poor Develop Poor Dissolu Poor Leaching Chalk Wht Abd Cht Wht w/Fos (Fuss Includ) Op Shp Vit Fos (Fuss) Sh Char-Red Fissil No Odor No Flor No Stn NS

LS Wht-Gry FxIn Poor IxIn Por Mostly Micritic Dsn Barren Chalk Wht Abd Cht Wht-Drk Gry Op Shp Vit Sh Char Fissil No Odor No Flor No Stn NS

LS Wht-Crm-Gry FxIn Poor IxIn Por Mostly Micritic Dsn Barren Chalk Wht Abd Sh Blk Carb-Char Fissil No Odor No Flor No Stn NS

LS Wht-Crm-Gry FxIn Poor IxIn Por Mostly Micritic Dsn Barren Chalk Wht Abd Sh Blk Carb-Char Fissil No Odor No Flor No Stn NS

LS Crm-Wht FxIn Poor-Fair IxIn Cht Blk-Wht Op Shp Vit Sh Blk Carb - Char Fissil No Odor No Flor No Stn NS

Sh Blk Carb-Char Fissil FSG Ls Crm-Wht-Gry FxIn Dns Micrite Poor IxIn Por Chalk Wht Soft Cht Wht Transl-Up Shp Vit Fos (Fuss) No Odor No Stn No Flor FSG (in Sh Blk Carb)

Ls Crm-Gry FxIn Poor-Fair IxIn Por Chalk Wht Soft Abd Cht Blk-Tan Op Shp Vit Sh Char-Grn Fissil No Odor No Stn No Flor NS

Ls Crm-Wht FxIn Grad Poor IxIn Por Grad Tr/OOM Por w/ OOL (Small) in pl Poor Develop Poor Dissolu Poor Leaching Chalk Wht Abd Cht Blk-Tan Op Shp Vit Fos (Crin) Sh Char Fissil No Odor No Flor No Stn NS

Ls Crm-Wht FxIn Grad Poor IxIn Por Grad Tr/OOM Por w/ OOL (Small) in pl Poor Develop Poor Dissolu Poor Leaching Chalk Wht Abd Cht Blk-Tan Op Shp Vit Fos (Crin) Sh Char Fissil No Odor No Flor No Stn NS

Ls Crm-Gry FxIn Poor-Fair IxIn Por Chalk Wht Soft Abd Tr/Cht Wht-Tan (Banded) Op Shp Vit Sh Char-Grn Fissil No Odor No Stn No Flor NS

Ls Gry-Crm FxIn Dns Micrite Poor-No Vis IxIn Por Chalk Wht Soft Sh Blk Carb-Char-Red Fissil No Odor No Stn No Flor NS

Sh Blk Carb-Char-Grn Fissil Tr/Sli SG Ls Crm-Wht-Gry FxIn Dns Micrite Poor IxIn Por Tr OOM Por AA Chalk Wht Soft Cht Wht Transl-Up Shp Vit Fos (Crin) No Odor No Stn No Flor NS

Ls Gry-Crm FxIn Dns Micrite Poor-No Vis IxIn Por Chalk Wht Soft Sh Blk Carb-Char-Red Fissil No Odor No Stn No Flor NS

HEEBNER 4110' (- 1342)

Sh Blk Carb-Char-Grn Fissil F-G SG Ls Crm FxIn Dns Micrite Poor IxIn Por Chalk Wht Soft Cht Wht Transl-Up Shp Vit Fos (Fuss) No Odor No Stn No Flor FSG (in Sh Blk Carb)

TORONTO 4130' (- 1362)

Ls Wht-Crm MicroIn-FxIn Poor-Fair IxIn Por Cht Wht-Gry Op Shp Vit Chalk Wht Soft Abd Sh Blk Carb-Char AA Fissil No Odor No Stn Ls w/Tr ? Min Flor (< 5% Spl) No Vis Show ? Gas Kick ? SSG

DOUGLAS 4146' (- 1378)

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

Ls Crm-Wht-Gry FxIn Dns Micrite Poor IxIn Por Chalk Wht Soft Abd Sh

Mudco Ck @ 3999' @ 12:45 PM 4/2/12; Vis 53; WT = 9.1#; PV = 18; YP = 18; WL = 9.2; Cake = 1; Chl = 3300; Cal = 20; Sol = 5.6%; LCM = 2#; DMC = \$ 1138.00; CMC = \$ 12,681.20

TG, C1 SH GAS KICK = 53 UNITS.

SH GAS KICK = 46 UNITS.

Scale Change TG, C1-C5 150

SH GAS KICK = 141 UNITS.

GAS KICK = 97 UNITS.

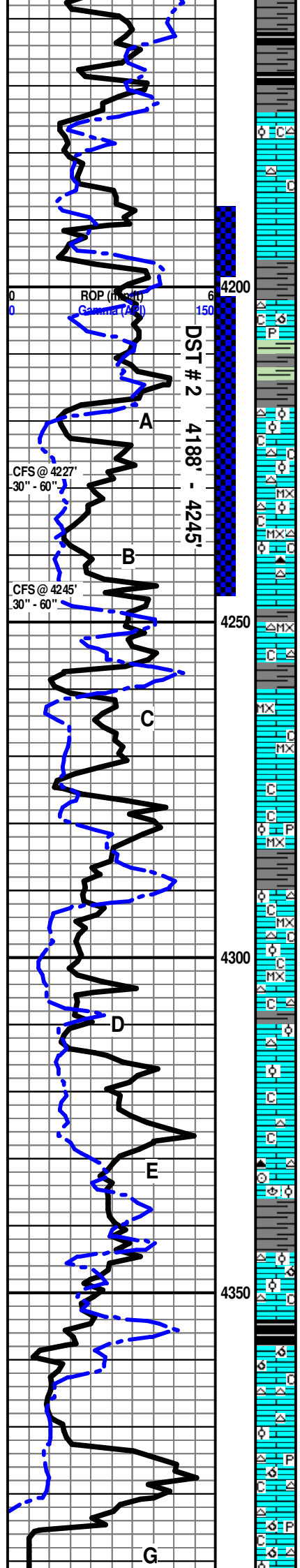
GAS KICK = 89 UNITS.

SPL TRAP LEFT OPEN 4130'-4140'

GAS KICK = 54 UNITS.

Scale Change TG, C1-C5 100

Mudco Ck @



Char-Gry-Grn Soft-Fissil Cht Drk-Gry Op Shp Vit No Odor No Stn No Flor NS

Ls Wht-Crm MicroIn-FxIn Poor-Fair IxIn Por Cht Wht Op Shp Vit Chalk Wht Soft Abd Sh Char-Gry-Grn Tr/Blk Carb Aa Fissil No Odor No Stn No Flor NS

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

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

Ls Crm-Gry MicroIn-FxIn Poor-Fair IxIn Por Grad Tr OOM Poor Develop Poor Leach Cht Wht-Gry Op Shp Vit Chalk Wht Soft Abd Sh Char-Gry w/Pyr Includ Fissil No Odor No Stn Sli ? Min Flor NS

IATAN "BROWN LIME" 4202' (- 1434)

30" CFS @ 4227' Ls Wht-Gry MicroIn-FxIn Micritic Fair Stn Flor (Lt Grn-Wht of Spl through Tray 50%) Cht Wht Op Shp Vit Abd Chalk Wht Soft Sh Char-Gry-Grn Fissil No Odor Fair ? Scat Min Flor No Stn NS

LANSING 4218' (-1450)

60" CFS @ 4227' Ls Wht MicroIn-FxIn Micritic Grad OOL Fair InterOOL Por w/OOL in pl Tr/Scat Leaching Por Barren Fair Stn Flor (Lt Grn-Wht of Spl through Tray 80%) Cht Wht-Gry Op Shp Vit Abd Chalk Wht Soft Sh Char-Gry-Grn Fissil No Odor Fair Scat ? Min Flor ? Stn NS

30" CFS @ 4245' Ls Wht MicroIn-FxIn Micritic w/Calc Xls Includ Grad OOL Fair InterOOL Por w/OOL in pl Tr/Scat Leaching Por Barren Fair Stn Flor (Lt Grn-Wht of Spl through Tray 60%) Cht Wht-Gry Op Shp Vit V Abd Chalk Wht Soft Sh Char-Gry-Grn Fissil No Odor Fair Scat ? Min Flor ? Stn NS

60" CFS @ 4245' Ls Wht MicroIn-FxIn Micritic Grad OOL AA Fair InterOOL Por w/OOL in pl Tr/Scat Leaching Por Barren Fair Stn Flor (Lt Grn-Wht of Spl through Tray 20%) Cht Wht-Gry-Amber Translu-Op Shp Vit V Abd Chalk Wht Soft Sh Char-Gry-Grn Fissil No Odor Fair Scat ? Min Flor ? Stn NS

Ls Crm-Gry MicroIn-FxIn Poor IxIn Por Grad Micritic Chalk Wht Soft V ABD Cht Wht Op Shp Vit Dec Sh Char-Gry Fissil No Odor No Stn ? Sli Min Flor Dec AA NS

Ls Crm-Gry MicroIn-FxIn Poor IxIn Por Grad Micritic Chalk Wht Soft Sh Char-Gry Fissil No Odor No Stn ? Sli Min Flor Dec AA NS

Ls Crm-Tan-Gry MicroIn-FxIn Poor IxIn Por Grad Micritic Chalk Wht Soft V Abd Fos (Crin, Brach) Sh Char-Gry Fissil No Odor No Stn ? Sli Min Flor Dec AA NS

Ls Crm-Tan MicroIn-FxIn Poor IxIn Por Grad Micritic w/ Pry Includ Grad Tr/Poor OOL Por Poor InterOOL Por w/ Small Ooids in pl Chalk Wht Soft V Abd Sh Char-Gry Fissil No Odor No Stn ? Sli Min Flor Dec AA NS

Chalk Wht Soft V Abd (60% of Spl) Ls Crm-Tan MicroIn-FxIn Poor IxIn Por Grad Micritic Grad Tr/Poor OOL Por Poor InterOOL Por w/ Small Ooids in pl Cht Wht-Gry p Vis Shp Sh Char-Gry-Grn Fissil No Odor No Stn ? V Sli Min Flor NS

Chalk Wht Soft V Abd (60% of Spl) Ls Crm-Tan MicroIn-FxIn Poor IxIn Por Grad Micritic Cht Wht-Gry p Vis Shp Sh Char-Gry-Grn Fissil No Odor No Stn ? V Sli Min Flor NS

Ls Wht-Crm MicroIn-FxIn Poor IxIn Por Grad Micritic Grad Tr/Poor OOL Por Poor InterOOL Por w/ Small Ooids in pl Cht Wht w/Fos(Fuss) Includ Op Shp Vit Chalk Wht Soft Sh Char-Gry Fissil No Odor No Stn ? Sli Min Flor NS

Ls Gry-Crm MicroIn-FxIn Poor IxIn Por Grad Micritic Cht Wht-Gry Op Shp Vit Chalk Wht Soft Sh Char-Gry Fissil No Odor No Stn Tr ? Min Flor NS

Ls Crm-Gry MicroIn-FxIn Poor IxIn Por Grad Micritic Cht Tan-Gry Op Shp Vit Chalk Wht Soft Sh Char-Gry Fissil No Odor No Stn ? Sli Min Flor Sh Char-Gry Fissi I No Odor No Stn ? Sli Min NS

Ls Wht-Crm-Gry MicroIn-FxIn Poor IxIn Por Micritic Grad Poor OOL Por w/OOL in pl (V Small Ooids) Granular w/Poor Dissolu Poor Develop Cht Wht-Gry Banded Op Shp Vit Chalk Wht Soft Fos (Brach, Crin) Sh Blk Carb-Char-Gry Fissil No Odor No Stn ? Sli Min Flor NS

Ls Crm-Wht MicroIn-FxIn Poor IxIn Por Grad Poor OOM Por w/OOL in pl (Small-Med Ooids) Poor Dissolu Poor Develop Cht Wht Op Shp Vit Chalk Wht Soft V Abd Sh Char-Gry Fissil No Odor No Stn No Flor

Ls Crm-Wht MicroIn-FxIn Poor IxIn Por Grad Poor OOM Por w/OOL in pl (Small-Med Ooids) Poor Dissolu Poor Develop Cht Wht Op Shp Vit Chalk Wht Soft V Abd Sh Char-Gry Fissil No Odor No Stn No Flor

30" CFS @ 4400' Ls Wht-Crm-Gry MicroIn Poor IxIn Por Micritic w/Pyr Includ Grad OOL Por w/OOL (Small-Med Ooids w/Ctr's Fill w/? Drk-Gry Calcite? Includ) in pl Poor Inter-OOM/OOL Por Poor Develop Poor Leaching Cht Wht Op Shp Vit Fos (Crin) Sh Char-Gry-Maroon Fissil No Odor No Flor No Stn NS

60" CFS @ 4400' Ls Wht-Crm-Gry MicroIn Poor IxIn Por Micritic w/Pyr Includ Grad OOL Por w/OOL (Small-Med Ooids w/Ctr's Fill w/? Drk-Gry Calcite? Includ) in

4245' @ 1:10
PM 4/3/12;
Vis 54; WT=
9.2#; PV= 20;
YP= 20;
WL= 80;
Cake= 1;
Chl= 2450; Cal
= 20; Sol=
6.3%; LCM=
2#; DMC=\$
1414.70;
CMC=\$
14,095.90

TG, C1-C5 100

DST # 2 4188'-4245'.
Times: 5' - 60" - 40"
30"; Blow: IF= Weak
1/2" Surface Blow.
FF= No Blow Flushed
Tool @ 20" - No Blow.
Recovery: 60' DM
(100% M).
Pressures: IH= -
2044#; FH=
2067#; IF=
18-22#; FF=
25-52#; ISIP=
1248#; FSIP=
1128#; Temp= NC
degrees F.

GAS KICK =
24 UNITS

pl Poor Inter-OOL/OOL Por Poor Develop Poor Leaching Cht Wht Op Shp Vit Fos
(Crin) Sh Char-Gry-Maroon Fissil No Odor No Flor No Stn NS

4400

ROP CFS @4400' 6
Gamir 30" - 60" 150

R.T.D. = 4400' (- 1632)

L.T.D. = ' (-

ELECTRIC LOGS By LOGTECH, INC.: DUAL COMP. POROSITY; DUAL
INDUCTION; BOREHOLE COMPENSATED SONIC; MICRORESISTIVITY.

Geologist Left Location at 12:00 P.M. on 4-4-12

4450

4500

TG, C1-C5

100