



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

Well Name: Davis #1-33 (SW)
Location: Sw-Se-Ne-Sw Sec. 33 - T. 27 - 30 W.
License Number: 5316
Spud Date: 1/17/11
Surface Coordinates: 1500" FSL - 2000' FWL

Region:
Drilling Completed: 1/31/11

Bottom Hole Coordinates:

Ground Elevation (ft): 2809' **K.B. Elevation (ft):** 2821'
Logged Interval (ft): **To:** **Total Depth (ft):** 5456'
Formation:
Type of Drilling Fluid: CHEMICAL/POLYMER/GEL

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

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Address: 125 N. MARKET, STE. #1252
WICHITA, KANSAS 67202-1719

GEOLOGIST

Name: DAVID P. WILLIAMS
Company: DW ENERGY, INC.
Address: 225 N. MARKET STREET, STE. #230
WICHITA, KANSAS 67202

CASING SET

**8 5/8" 23# SURFACE CASING SET @ 1881'. CEMENTED WITH SX CEMENT DID
CIRCULATE.**

DSTs

DST #1 2697'-2778' Times: 5"-90"-90"-180"

Blow: IF Weak 1/2" Surface Blow Inc to 4"; FF Weak 1/4" Blow Inc to BOB/17". Bled Off @ 30". Regained BOB//52" into FF.

Recovery: 350' TF Comprised of: 170' VSWCM; 120' VHWCM; 60' VHMCW .

Pressures: IH 1257#: FH 1193#; IF 61-66#; FF 96-186#;
 ISIP = 608#; FSIP 513#;
 Chlorides: 53,000 Ppm; Temp = 88 Degrees F.

DST #2 4586'-4613' Times: 5"-90"-60"-90" ;

Blow: IF Weak 1/4" Surface Blow; FF Weak 1/4" Blow Flushed Tool @ 25". FF. 1/4" Blow Throughout FF.

Recovery: 30' Mud w/Tr. Oil On Top Of Tool.

Pressures: IH 2196#: FH 2168#; IF 65-36#; FF 61-44#; ISIP 1394#; FSIP 1285#; Temp = 110 Degrees F.

DST #3 5072'-5165'; Times: 5"-90"-48"-0".

Blow: IF Weak 1/4" Surface Blow; FF Weak 1/4" Blow. Flushed Tool @ 27". FF. 1/4" Blow; Pulled DST @ 48" on FF.

Recovery: 60' Mud.

Pressures: IH 2407#: FH 2369#; IF 71-46#; FF 66-49#;
 ISIP 165 #; FSIP None;
 Temp = 115 Degrees F.

DST #4 5250'-5304'; Times: 5"-90"-60"-101".


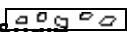

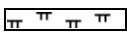









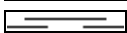


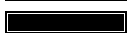
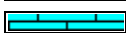


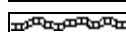


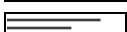
Blow: IF V. Weak 1/4" Surface Blow; fF V.Weak 1/4" Blow & Died. Flushed Tool @ 10". FF. V. Weak Blow & Died @ 10";

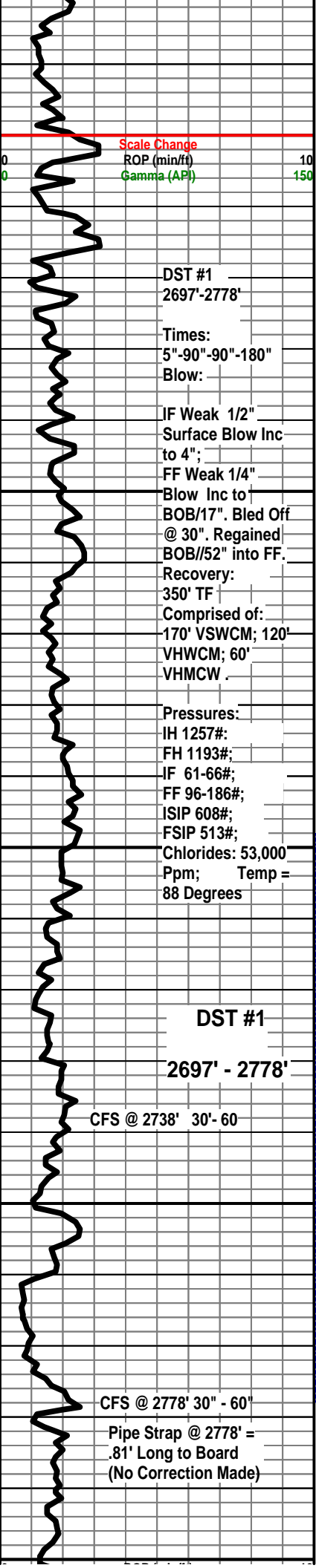
Recovery: 5' Mud.

Pressures: IH 2500#: FH 2484#; IF 66-36#; FF 27-23#;
 ISIP 35 #; FSIP 31; Temp = 117 Degrees F.

Comments

ROCK TYPES

	Black carb shale		Brec		Dol		Mrlst		Slst
	Green shale		Cht		Gyp		Salt		Ss
	Red shale		Clyst		Igne		Shale		Till
	Anhy		Coal		Lmst		Shcol		Gray shale
	Bent		Congl		Meta		Shgy		



Scale Change
 ROP (min/ft) 10
 Gamma (API) 150

DST #1
 2697'-2778'

Times:
 5"-90"-90"-180"
 Blow:

IF Weak 1/2"
 Surface Blow Inc to 4";
 FF Weak 1/4"
 Blow Inc to BOB/17". Bled Off @ 30". Regained BOB/52" into FF.
 Recovery: 350' TF
 Comprised of: 170' VSWCM; 120' VHWCW; 60' VHMCW

Pressures:
 IH 1257#;
 FH 1193#;
 IF 61-66#;
 FF 96-186#;
 ISIP 608#;
 FSIP 513#;
 Chlorides: 53,000 Ppm; Temp = 88 Degrees

DST #1
 2697' - 2778'

CFS @ 2738' 30'-60

CFS @ 2778' 30" - 60"

Pipe Strap @ 2778' = .81' Long to Board (No Correction Made)

2600
2650
2700
2750
300

Sh Red-Gry V Abd w/ Assoc Anhy/Gyp Wht-Op-Transl Stringers No Odor No Stn No Flor NS

Sh Brick Red-Gry V Abd Inc w/Dec Assoc Anhy/Gyp Wht-Op-Transl Stringers No Odor No Stn No Flor NS

Sh Brick Red-Gry V Abd Inc w/Dec Assoc Anhy/Gyp Wht-Op-Transl Stringers No Odor No Stn No Flor NS

Sh Brick Red-Gry V Abd Inc w/Dec Assoc Anhy/Gyp Wht-Op-Transl Stringers No Odor No Stn No Flor NS

Sh Brick Red-Gry V Abd Inc w/Dec Assoc Anhy/Gyp Wht-Op-Transl Stringers No Odor No Stn No Flor NS

Chase Group 2682' (+139)

Sh Brick Red-Gry V Abd Inc w/Dec Assoc Anhy/Gyp Wht-Op-Transl Stringers No Odor No Stn No Flor NS

30" CFS Dolo/Ls Wht FxIn Fair Pin-Pt IxIn Por (Few Pcs-V Small) Sh Abd AA Red-Gry Abd Anhy/Gyp No Odor No Stn Fo Flor NS

60" CFS Dolo/Ls Wht FxIn Fair Pin-Pt IxIn Por (Few Pcs-V Small) Sh Abd AA Red-Gry Abd Anhy/Gyp No Odor No Stn Fo Flor NS

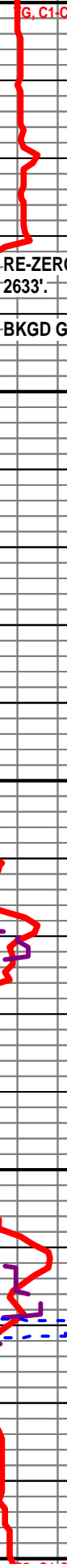
Dolo/Ls AA Wht FxIn Fair Pin-Pt IxIn Por (Few Pcs-V Small) Sh Abd AA Red-Gry Dec Anhy/Gyp No Odor No Stn Fo Flor NS

WINFIELD 2755' (+66)

30" CFS Dolo Wht-Gry FxIn Fair-Med IxIn Por Tr Fair OOM (some w/ OOL in Pl Drk Gry) / Fair IxIn Por w/ Good Vug Leaching Dis Fos (Pelec Brach) Fair SG w/ Broken Sh Red-Char AA Fissil Sli Scatt Flor Stn No Odor Sli-Fair SG No Flor in Gas

60" CFS Dolo Wht-Gry FxIn Fair-Med IxIn Por Tr Fair OOM (some w/ OOL in Pl Drk Gry) / Fair IxIn Por w/ Good Vug Leaching Dis Fos (Pelec Brach) Fair SG w/ Broken Sh Red-Char AA Fissil Sli Scatt Flor Stn No Odor Sli-Fair SG No Flor in Gas

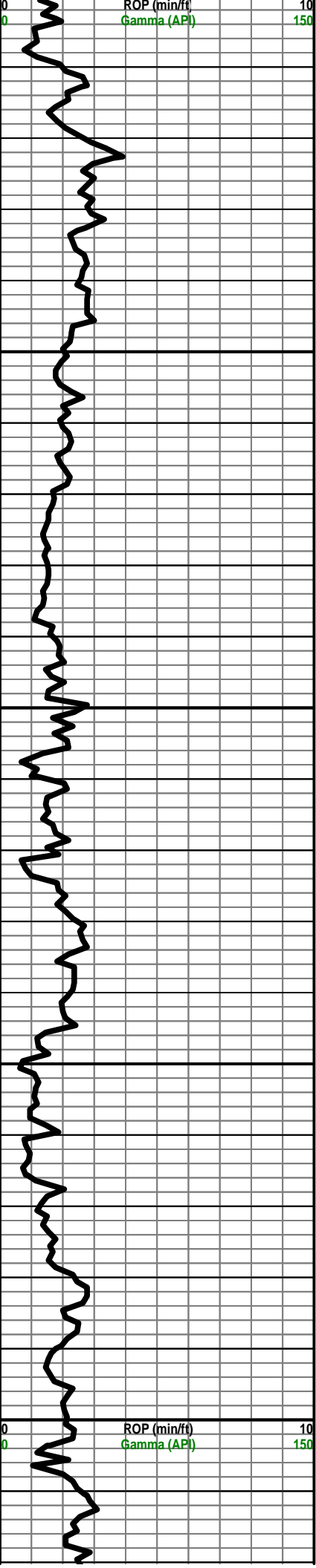
Sh Gry-Red-Char Abd Ls Gry-Wht FxIn AA Fine IxIn Por Cht Gry Op Vit Shp No Odor No Flor No Stn NS



RE-ZERO
 2633'

BKGD G

2600
2650
2700
2750
300



TOWANDA 2804' (+ 17)

Dolo Gry-Wht FxIn AA Fine IxIn Por Cht Gry Op Vit Shp Sh Dec Gry-Red-Char AA No Odor No Flor No Stn NS

Dolo Gry FxIn AA Fine IxIn Por Micritic Sh Dec Gry-Red AA No Odor No Flor No Stn NS

Dolo Gry-Crm FxIn AA Fine IxIn Por Micritic Sh Dec Gry-Red AA No Odor No Flor No Stn NS

FORT RILEY 2856' (-35)

Dolo Gry-Wht FxIn AA Fine IxIn Por Cht Gry Op Vit Shp Sh Gry-Red AA No Odor No Flor No Stn NS

Dolo Gry-Wht FxIn AA Fine IxIn Por Cht Gry Op Vit Shp Sh Abd Gry-Red AA No Odor No Flor No Stn NS

Dolo Gry-Wht FxIn AA Fine IxIn Por Cht Gry Op Vit Shp Sh Abd Gry-Red AA No Odor No Flor No Stn NS

Dolo Gry-Wht FxIn AA Fine IxIn Por Cht Gry Op Vit Shp Sh Abd Gry-Red AA No Odor No Flor No Stn NS

Sh Gry-Red Abd Tr Dolo Gry-Wht FxIn AA Fine IxIn Por No Odor No Flor No Stn NS

Ls Wht FxIn F IxIn Por Micritic Tr Poor OOM Por w/ Poor Small Vug Dis No InterOOM Por Cht Wht Transl- Op Vit Shp Chalk Sh Dec Gry-Red No Odor No Flor No Stn NS

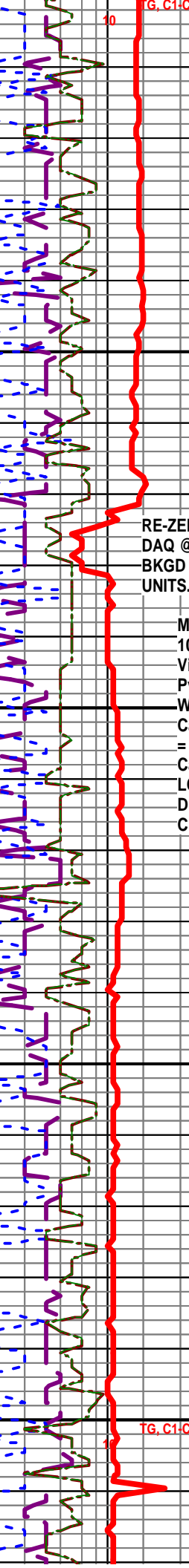
Ls Wht FxIn F IxIn Por Tr Poor OOM Por w/ Poor Small Vug Dis Poor Develop No InterOOM Por Grad Ls Gry Igran Poor Cht Wht-Gry Transl-Op Vit Shp Chalk Sh Dec Gry-Red No Odor No Flor No Stn NS

Ls Wht-Crm-Gry FxIn F IxIn Por Grad Ls Gry Gran w/ Poor Igran IxIn Por Chalk Inc Red-Gry No Odor No Flor No Stn N'

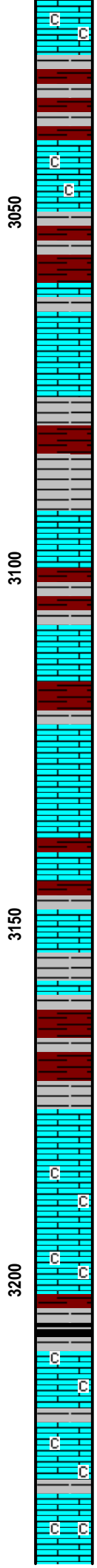
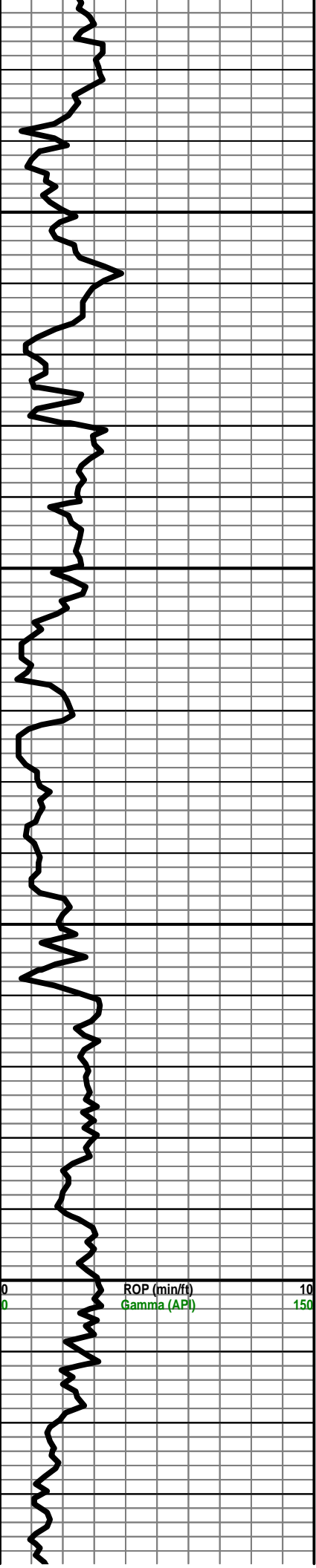
Sh Gry-Red Abd Fissil Tr Ls AA Gry-Wht FxIn AA F IxIn Por No Odor No Flor No Stn NS

Sh Gry Abd Dec Red Fissil Tr Ls AA Gry-Wht FxIn AA F IxIn Por No Odor No Flor No Stn NS

Ls Wht-Crm-Gry FxIn F IxIn Por Grad Ls Gry Gran w/ Poor Igran IxIn Por Tr Cha



RE-ZE
DAQ @
BKGD
UNITS.
M
10
V
P
W
C
=
C
L
D
C



Sh Dec Red-Gry Fissil No Odor No Flor No Stn N

WREFORD 3038' (-217)

Ls Wht-Crm-Gry FxIn F IxIn Por Grad Ls Gry Gran w/ Poor Igran IxIn Por Tr Cha
Sh Dec Red-Gry Fissil No Odor No Flor No Stn NS

BASE CHASE GROUP 3060' (-239)

Sh Red Abd Dec Gry Fissil AA Tr Ls AA Gry-Wht FxIn AA F IxIn Por No Odor No Flor No Stn NS

Sh Red Abd Dec Gry Fissil Tr Ls AA Gry-Wht FxIn AA F IxIn Por No Odor No Flor No Stn NS

BADER 3192' (- 371)

Sh Red Abd Dec Gry Fissil Tr Ls AA Gry-Wht FxIn AA F IxIn Por No Odor No Flor No Stn NS

COTTONWOOD 3106' (-285)

Sh Red Abd Inc Gry Fissil Tr Ls AA Gry-Wht FxIn AA F IxIn Por No Odor No Flor No Stn NS

Sh Red Abd Inc Gry Fissil Tr Ls AA Gry-Wht FxIn AA F IxIn Por No Odor No Flor No Stn NS

Sh Red Abd Inc Gry Fissil Tr Ls AA Gry-Wht FxIn AA F IxIn Por No Odor No Flor No Stn NS

NEVA 3183' (- 362)

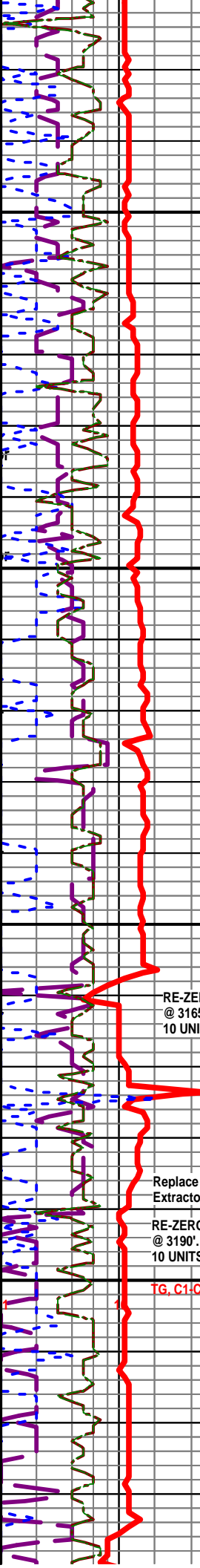
START 10' SAMPLES WET & DRY @ 3200'
BEGIN DISPLACEMENT OF MUD SYSTEM @ 3200'

Ls Wht-Crm-Gry FxIn Poor-Fair IxIn Micritic Por Grad Gran Poor Intergran Por Barren V Abd Chalk Inc Sh Red-Gry-Char-Blk Carb Soft-Fissil No Odor V Sli Dec Tr Scatt Min ? Flor (Lt Grn) (Few Pcs) NS

RED EAGLE 3220' (- 409)

Ls Wht-Crm-Gry FxIn Poor-Fair IxIn Micritic Por Grad Gran Poor Intergran Por Barren V Abd Chalk Inc Sh DecRed-Gry-Char-Blk Carb AA Soft-Fissil No Odor V Sli Dec Tr Scatt Min ? Flor (Lt Grn) (Few Pcs) NS

Ls Wht-Crm-Gry FxIn Poor-Fair IxIn Micritic Por Grad Gran Poor Intergran Pr

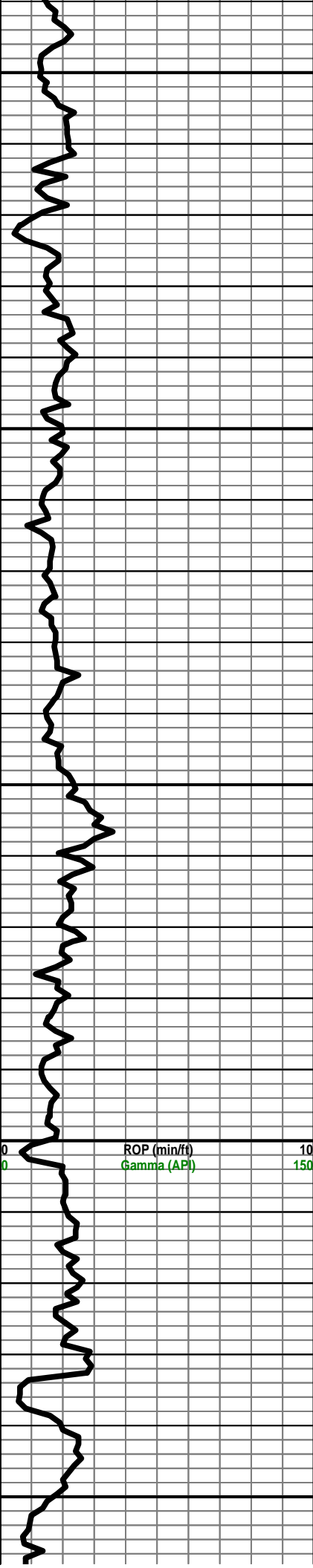


RE-ZERO @ 3190' 10 UNITS

Replace Extractor

RE-ZERO @ 3190' 10 UNITS

TG, C1, C2



Barren V Abd Chalk Inc Sh Gry-Char-Blk Carb Soft-Fissil No Odor V Sli Dec Tr
Scatt Min ? Flor (Lt Grn) (Few Pcs) NS

Ls Wht-Crm-Gry FxIn Poor-Fair IxIn Micritic Por Grad Gran Poor Intergran Por
Barren V Abd Chalk Inc Sh Gry-Char-Blk Carb Soft-Fissil No Odor V Sli Dec Tr
Scatt Min ? Flor (Lt Grn) (Few Pcs) NS

Ls Wht-Crm-Gry FxIn Poor-Fair IxIn Micritic Por Grad Gran Poor Intergran Por
Barren V Abd Chalk Sh Gry-Char-Red Soft No Odor V Sli Tr Scatt Min ? Flor (Lt
Grn) (Few Pcs) NS

Ls Wht-Crm-Gry FxIn Poor-Fair IxIn Micritic Por Grad Gran Poor Intergran Por
Barren V Abd Chalk Sh Gry-Char-Red Soft No Odor V Sli Tr Scatt Min ? Flor (Lt
Grn) (Few Pcs) NS

Ls Wht-Crm FxIn Poor-Fair IxIn Micritic Por Grad Gran Poor Intergran Por Barren
Cht Wht Gry Op Shp Vit Abd Chalk Fos (Brach) Sh Gry-Char-Red Soft No Odor Tr
Scatt Min ? Flor (Lt Grn) (Few Pcs) NS

FORAKER 3292' (- 471)

Ls Wht-Crm FxIn Poor-Fair IxIn Micritic Por Grad Gran Poor Intergran Por Barren
Cht Wht Gry Op Shp Vit Abd Chalk Sh Gry-Char Soft No Odor Inc Abd Scatt Mir
Flor (Lt Grn) NS

Ls Wht-Crm FxIn Poor-Fair IxIn Micritic Por Grad Gran Poor Intergran Por Barren
Cht Wht Gry Op Shp Vit Abd Chalk Sh Gry-Char Soft No Odor Scatt Min ? Flor (Lt
Grn) NS

Ls Wht-Crm FxIn Poor-Fair IxIn Micritic Por Grad Gran Poor Intergran Por Barren
Cht Wht Gry Op Shp Vit Abd Chalk Sh Gry-Char Soft No Odor Scatt Min ? Flor (Lt
Grn) NS

Ls Wht-Crm FxIn Poor-Fair IxIn Micritic Por Grad Gran Poor Intergran Por Barren
Cht Wht Gry Op Shp Vit Abd Chalk Sh Gry-Char Soft No Odor Scatt Min ? Flor (Lt
Grn) NS

Ls Wht-Crm FxIn Poor-Fair IxIn Micritic Por Grad Gran Poor Intergran Por Barren Abd Chalk Sh
Gry-Char Soft No Odor Scatt Min ? Flor (Lt Grn) NS

ADMIRE GROUP 3344' (- 523)

Ls Wht-Gry FxIn Poor-Fair IxIn Micritic Por Grad Gran Poor Intergran Por Barren
Cht Wht Gry Op Shp Vit w/OOL Chalk Sh Gry-Char Soft No Odor Scatt Min ? Flo
(Lt Grn) Stn NS

Ls Wht-Gry-Crm FxIn Poor-Fair IxIn Micritic Por Grad Gran Poor Intergran Por
Barren Fos Cry Cht Drk Gry Op Shp Vit Chalk Sh Gry-Char Soft No Odor Scatt
Min ? Flor (Lt Grn) No NS

Ls Wht-Gry-Crm FxIn Poor-Fair IxIn Micritic Por Grad Gran Poor Intergran Por
Barren Cht Drk Gry Op Shp Vit Chalk Sh Gry-Char Soft No Odor Scatt Min ? Flo
(Lt Grn) No NS

Ls Wht-Gry-Crm FxIn Poor-Fair IxIn Micritic Por Grad Gran Poor Intergran Por
Barren Cht Wht Gry Op Shp Vit Chalk Sh Gry-Char Soft No Odor Scatt Min ? Flor
(Lt Grn) NS

Ls Crm-Wht-Gry FxIn Poor IxIn Micritic Por Grad Gran Poor Intergran Por Barren
Fos Cry Cht Gry Op Shp Vit w/OOL % Fos (? Spic) Chalk Sh Gry-Char Soft No
Odor Scatt Min ? Flor (Lt Grn) NS

Ls Crm-Wht-Gry FxIn Poor IxIn Micritic Por Grad Gran Poor Intergran Por Barren
Chalk Sh Gry-Char Soft No Odor Scatt Min ? Flor (Lt Grn) NS

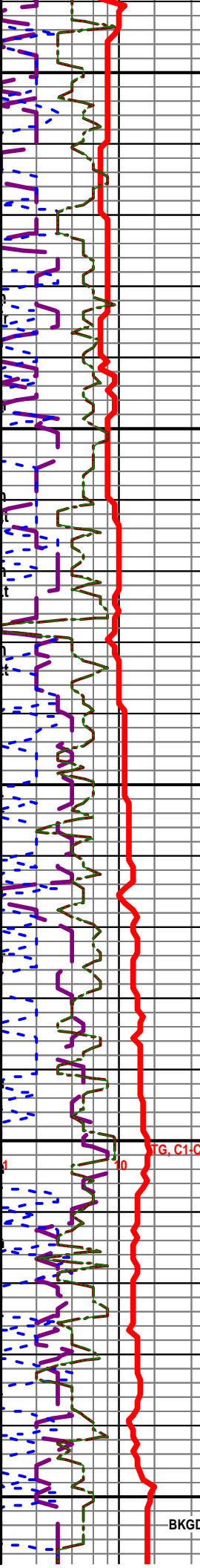
Ls Crm-Wht-Gry FxIn Poor IxIn Micritic Por Grad Gran Poor Intergran Por Barren
Chalk Sh Gry-Char Soft No Odor Scat Min ? Flor (Lt Grn) NS

Ls Crm-Wht-Gry FxIn Poor IxIn Por Grad Fair OOM Por w/Poor InterOOM Por Fa
Dis Fair Develop Barren Chalk Sh Gry-Char Soft No Odor Scat Min ? Flor (Lt Gr
NS

Ls Crm-Wht-Gry FxIn Poor IxIn Por Grad Fair OOM Por w/Poor InterOOM Por Fa
Dis Fair Develop Barren Chalk Sh Gry-Char Soft No Odor Scat Min ? Flor (Lt Gr
NS

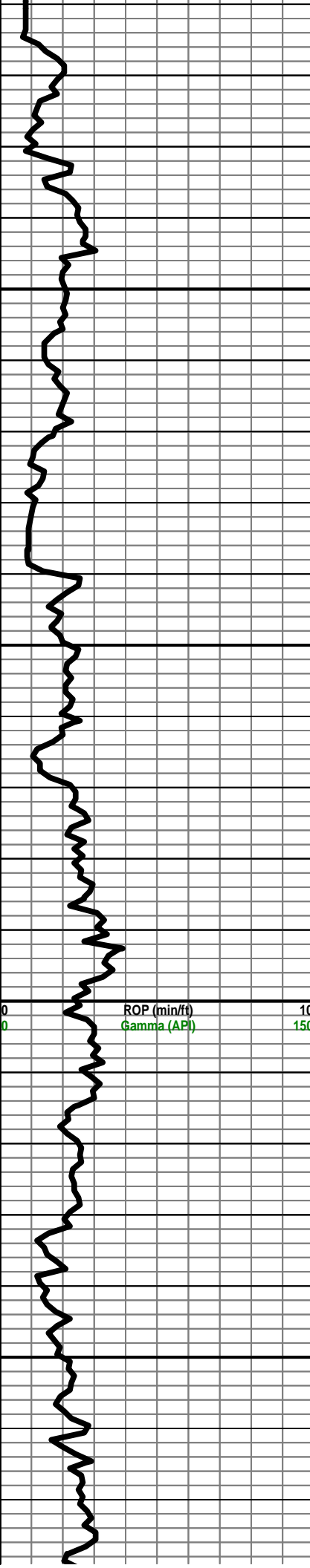
Ls Crm-Wht-Gry FxIn Poor IxIn Por Grad Fair OOM Por w/Poor InterOOM Por Fa
Dis Fair Develop Barren Chalk Sh Gry-Char Soft No Odor Scat Min ? Flor (Lt Gr
NS

Ls Crm-Wht-Gry FxIn Poor IxIn Por Grad Fair OOM Por w/Poor InterOOM Por Fa
Dis Fair Develop Barren Chalk Sh Gry-Char Soft No Odor Scat Min ? Flor (Lt Gr
NS



ROP (min/ft)
Gamma (API)

BKG



Ls Crm-Wht-Gry FxIn Poor - Fair IxIn Por Barren Tr Chalk Sh Red Tr Soft No Odor No Flor NS

Ls Crm-Wht- FxIn Poor IxIn Por Grad Poor OOM Por w/Poor InterOOM Por Poor Dis Poor Develop Barren Chalk Sh Gry-Char Soft No Odor No Stn NS

Ls Crm-Wht- FxIn Poor IxIn Por Grad Poor OOM Por w/Poor InterOOM Por Poor Dis Poor Develop Barren Chalk Sh Gry-Char Soft No Odor No Stn NS

Ls Crm-Wht- FxIn Poor IxIn Por Grad Poor OOM Por w/Poor InterOOM Por Poor Dis Poor Develop Barren Chalk Sh Gry-Char Soft No Odor No Stn NS

Ls Crm-Wht- FxIn Poor IxIn Por Grad Poor OOM Por w/Poor InterOOM Por Poor Dis Poor Develop Barren Chalk Sh Gry-Char Soft No Odor No Stn NS

ROOT SHALE 3512' (- 691)

Ls Crm-Wht- FxIn Poor IxIn Por Tr Poor-Fair OOM Por Poor-Fair Dis Poor-Fair Develop Barren Chalk Sh Gry-Char Inc Soft No Odor No Stn NS

Sh Gry-Char Inc Soft Tr Ls Crm-Wht AA- FxIn Poor IxIn Por Tr Poor-Fair OOM Por Poor-Fair Dis Poor-Fair Develop Barren Chalk No Odor No Flor No Stn NS

STOTLER 3540' (- 719)

Ls Crm FxIn Poor IxIn Por w/ Tr/OOL in pl Poor Dis Poor Develop Sh Gry-Char / No Odor Scat Min ? Flor (Lt Grn) NS

Ls Crm-Wht- FxIn Poor IxIn Por Grad Poor OOM Por w/OOL in pl Poor InterOOM Por Poor Dis Poor Develop V Soft Barren Fos Crin Chalk Sh Gry-Char Soft No Odor No Stn NS

Ls Crm-Wht- FxIn Poor IxIn Por Grad V Soft Barren Chalk Fos Abd Crin Cht Char-Gry-Blk Op Vit Shp Tr ? VSSG Tr Scatt Stn ? Min Flor Tr Drk Gillsonitic Str on Edge of Cht/Ls No Cut w/Acit Sh Gry-Char Soft No Odor No Stn NS

Sh Gry-Char-Red Soft Ls Gry-Crm FxIn Dns Micritic Barren Tr Poor OOM Por No Dis Chalk V Sli Tr ? Min Flor No Odor NS

Ls Gry-Crm FxIn Dns Micritic Barren Tr Poor OOM Por No Dis Chalk Sh Gry-Char-Red Soft V Sli Tr ? Min Flor No Odor NS

TARKIO 3602' (- 781)

Ls Wht-Crm-Gry FxIn Dns Micritic Barren Tr Poor OOM Por No Dis Fos Foram Chalk Sh Grn-Gry Soft V Sli Tr ? Min Flor No Odor NS

Ls Wht-Crm-Gry FxIn Dns Micritic Barren Tr Poor OOM Por Poor Dis Poor Develop (1 Pc) Chalk Sh Grn-Gry Soft V Sli Tr ? Min Flor No Odor NS

Ls Wht-Crm-Gry FxIn Dns Micritic Barren Tr Poor OOL Por Poor Dis Poor Develop Fos Abd Crin Chalk Sh Inc Grn-Gry Soft V Sli Tr ? Min Flor No Odor NS

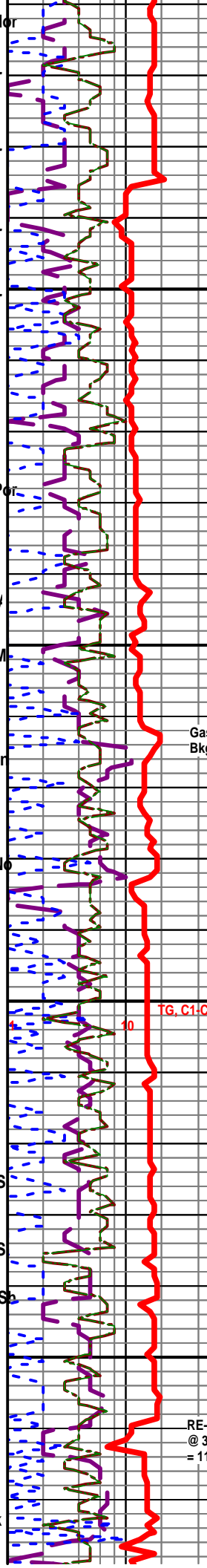
Ls Wht-Crm-Gry FxIn Dns Micritic Barren Tr Poor OOL Por AA Poor Dis Poor Develop Fos Abd Crin Chalk Sh Inc Grn-Gry Soft V Sli Tr ? Min Flor No Odor NS

Ls Crm-Gry FxIn Dns Micritic Barren Fos (Pelec) Chalk Inc Cht Gry Op Shp Vit Sp Gry Soft No Flor No Odor NS

Ls Wht-Crm-Gry FxIn Dns Micritic Barren w/Tr Poor OOL Por Poor Dis Poor Develop Fos Crin Chalk Sh Inc Gry-Red Soft No Flor No Odor NS

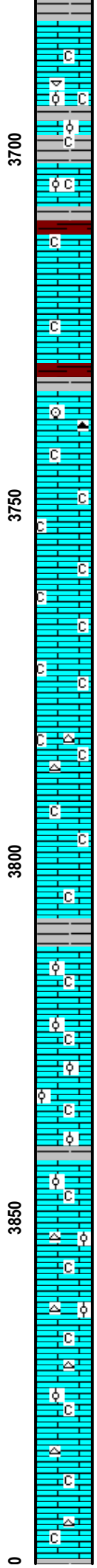
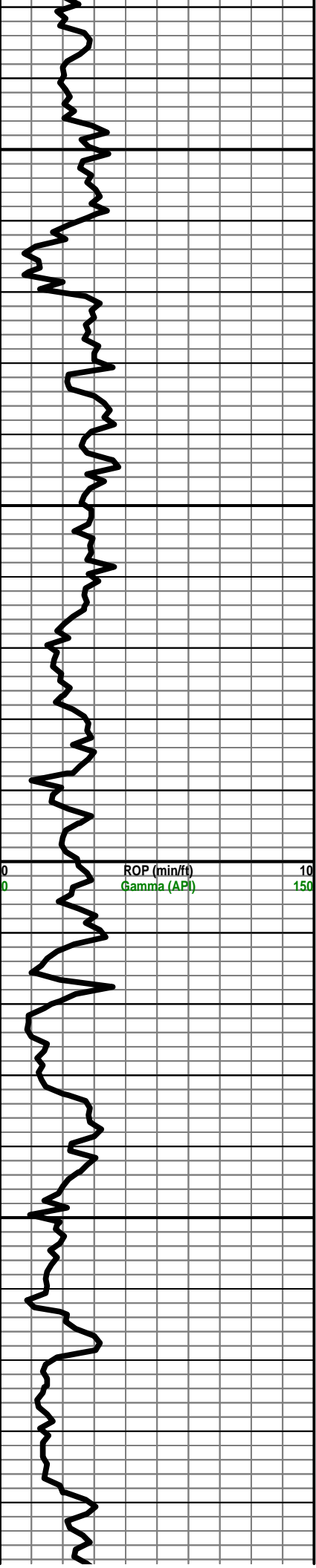
Ls Crm-Gry-Wht FxIn Dns Micritic Barren Chalk Sh Red- Gry Soft (Wash Red) Scatt ? Min Flor No Odor NS

Ls Crm-Gry FxIn Dns Micritic Grad Gran FxIn Gran Por Barren Fos (Spic) Chalk Inc Sh Red-Gry Soft Scatt ? Min Flor No Odor NS



TG, C1, C2

RE- @ 3 = 11



Ls Crm-Gry FxIn Dns Micritic Grad Gran FxIn Gran Por Barren Chalk Abd Sh
Red-Gry-Char Soft Scatt ? Min Flor No Odor NS

Ls Wht-Crm-Gry FxIn Dns Micritic Barren w/Tr Poor OOL Por Poor Dis Poor
Develop Fos (Pelec) Chalk Abd Sh Gry-Red-Char-Blk Carb Soft Scatt ? Min Flo
No Odor NS

Ls Wht-Crm-Gry FxIn Dns Micritic Barren w/Tr Poor OOL Por Poor Dis Poor Develop Fos (Pelec)
Chalk Abd Sh Gry-Red-Char-Blk Carb Soft Scatt ? Min Flor No Odor NS

BERN 3712' (- 891)

Ls Wht-Crm FxIn Dns Micritic Barren Chalk Abd Sh Gry-Red-Char Soft Scatt ?
Min Flor No Odor NS

Ls Wht-Crm FxIn Dns Micritic Barren Chalk Abd Sh Gry-Red-Char Soft Tr Scatt
Min Flor No Odor NS

Ls Wht-Crm FxIn Dns Micritic Barren Fos Crin Chalk Cht Drk Gry Op shp Vip Sh
Gry-Red-Char Soft Tr Scatt ? Min Flor No Odor NS

Ls-Gry-Crm FxIn Dns Micrite Barreb V Abd Chalk Sh Gry-Grn Soft Tr Scatt ? Min
Flor No Odor NS

Ls-Gry-Crm FxIn Dns Micrite Barreb V Abd Chalk Sh Gry-Char-Red Soft Tr Scatt
? Min Flor No Odor NS

Ls-Gry-Crm FxIn Dns Micrite Barreb V Abd Chalk Sh Gry-Char-Red Soft Tr Scatt
? Min Flor No Odor NS

Ls Crm-Wht FxIn Dns Micritic Barren V Abd Chalk Cht Tan Op shp Vip Sh
Gry-Char Soft Tr Scatt ? Min Flor No Odor NS

Ls Crm-Wht FxIn Dns Micritic Barren V Abd Chalk Cht Tan Op shp Vip Sh
Gry-Char Soft Tr Scatt ? Min Flor No Odor NS

Ls Crm-Wht FxIn Dns Micrite Barren Dec Chalk Char Soft Tr Scatt ? Min Flor No
Odor NS

Ls Crm-Wht FxIn Dns Micrite Barren Dec Chalk Char Soft Tr Scatt ? Min Flor No
Odor NS

TOPEKA 3812' (-991)

Ls Wht-Crm-Gry FxIn Dns Micritic Barren Grad Poor OOL Por Poor InterOOM P
Poor Dis Poor Develop Dec Chalk Sh Char Soft Scatt ? Min Flor No Odor NS

Ls Wht-Crm-Gry FxIn Dns Micritic Barren Grad Poor OOL Por Poor InterOOM P
Poor Dis Poor Develop Dec Chalk Sh Char Soft Scatt ? Min Flor No Odor NS

Ls Wht-Crm-Gry FxIn Dns Micritic Barren Grad Poor OOL Por Poor InterOOM P
Poor Dis Poor Develop Dec Chalk Sh Char Soft Scatt ? Min Flor No Odor NS

Ls Wht-Crm-Gry FxIn Dns Micritic Barren Grad Poor OOL Por Poor InterOOM P
Poor Dis Poor Develop Dec Chalk Sh Char Soft Scatt ? Min Flor No Odor NS

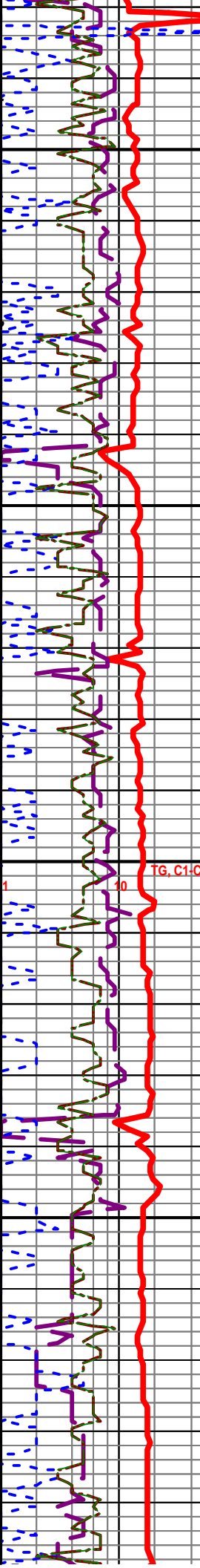
Ls Wht-Crm-Gry FxIn Dns Micritic Barren Grad Poor OOL Por Poor InterOOM P
Poor Dis Poor Develop Cht Wht-Tan Op Shp Vit Chalk Sh Char Soft Scatt ? Min
Flor No Odor NS

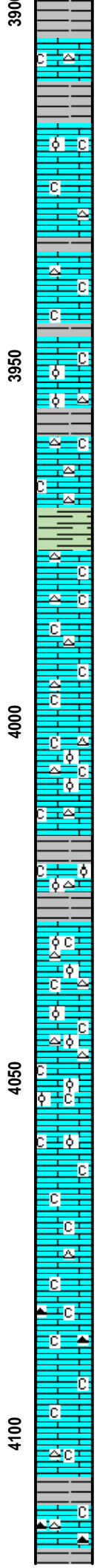
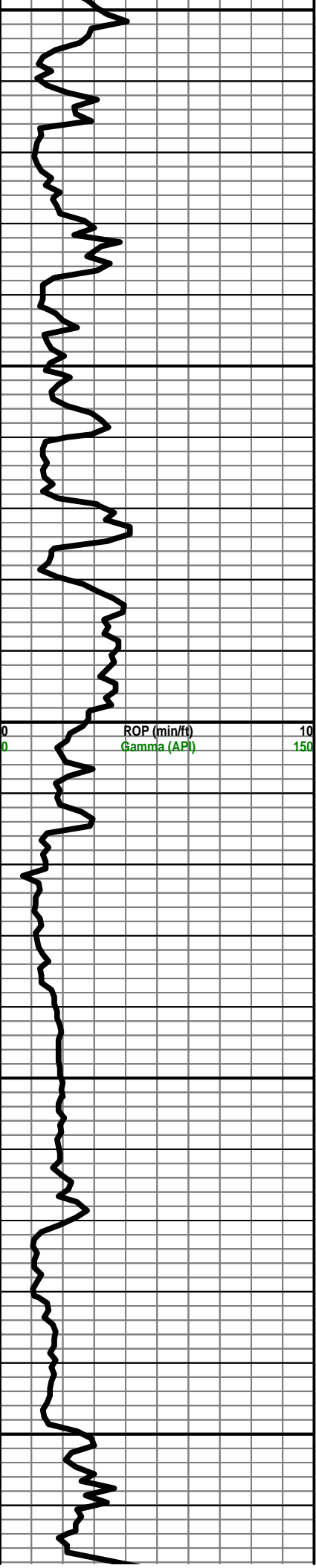
Ls Wht-Crm-Gry FxIn Dns Micritic Barren Grad Poor OOL Por Poor InterOOM P
Poor Dis Poor Develop Cht Wht-Tan Op Shp Vit Chalk Sh Char Soft Scatt ? Min
Flor No Odor NS

Ls Wht-Crm-Gry FxIn Dns Micritic Barren Grad Poor OOL Por Poor InterOOM P
Poor Dis Poor Develop Cht Wht-Tan Op Shp Vit Chalk Sh Char Soft Scatt ? Min
Flor No Odor NS

Ls Crm-Wht FxIn Dns Micritic barren Cht Wht-Tan Op Shp Vitn Tr Chalk Shar
Char Soft Sli Scatt ? Min Flor No Odor NS

Ls Crm-Wht FxIn Dns Micritic barren Cht Wht-Tan Op Shp Vitn Tr Chalk Shar
Char Soft Sli Scatt ? Min Flor No Odor NS





Ls Crm-Wht FxIn Dns Micritic barren Cht Wht-Tan Op Shp Vitn Tr Chalk Shar Char Soft Sli Scatt ? Min Flor No Odor NS

Ls Crm-Wht FxIn Dns Micrite Grad V Poor OOM Por w/Poor Leach Dis Poor Develop Poor InterOOM Por Cht Gry-Wht Op Shp Vit Chalk Sh Char-Red Soft-Fissil V Sli Tr-No Scatt Min Flor No Odor NS

Ls Crm-Wht FxIn Dns Micrite Cht Wht Op Shp Vit Chalk Sh Char-Grn Fissil V Sli Tr-No Scatt Min Flor No Odor N!

Ls Crm-Wht FxIn Dns Micrite Cht Wht Op Shp Vit Chalk Sh Char-Grn Fissil V Sli Tr-No Scatt Min Flor No Odor NS

Ls Crm-Wht FxIn Dns Micrite Cht Wht Op Shp Vit Chalk Sh Char-Grn Fissil V Sli Tr-No Scatt Min Flor No Odor N!

Ls Crm-Wht FxIn Dns Micrite Grad Poor OOM Por w/Poor leach Dis Poor Develop Poor InterOOM Por Cht Gry-Wht Op Shp Vit Chalk Sh Char-Grn Fissil V Sli Tr-No Scatt Min Flor No Odor NS

Ls Crm-Wht FxIn Dns Micrite Cht Wht Op Shp Vit Chalk Sh Char-Grn Fissil V Sli Tr-No Scatt Min Flor No Odor NS

LECOMPTON 3975' (- 1154)

Ls Crm-Wht FxIn Dns Micrite ? Trip w/ Pin-Pt Leached Por w/ Gillsonitic Residue (1 Pcs) Cht Wht Op Shp Vit Chalk Sh Char-Grn Fissil V Sli Tr-No Scatt Min Flor No Odor NS

Ls Crm-Wht FxIn Dns Micrite Cht Gry-Wht Op Shp Vit Chalk Sh Char-Grn Fissil V Sli Tr-No Scatt Min Flor No Odor NS

Ls Crm-Wht FxIn Dns Micrite Grad Poor OOM Por w/Poor Leach Dis Poor Develop Poor InterOOM Por Cht Gry-Wht Op Shp Vit Chalk Sh Char-Grn Fissil V Sli Tr-No Scatt Min Flor No Odor NS

Ls Crm-Wht FxIn Dns Micrite Grad V Chalky Cht Wht Op Shp Vit Sh Char-Red Fissil V Sli Tr-No Scatt Min Flor No Odor NS

Ls Wht-Crm FxIn Dns Micrite Grad Poor OOM Por w/Poor Leach Dis Poor Develop Poor InterOOM Por V Abd Chalk Cht Gry-Wht Op Shp Vit Tr Sh Red Fissil V Sli Tr-No Scatt Min Flor No Odor NS

Ls Wht-Crm FxIn Dns Micrite Grad Poor OOM Por w/Poor Leach Dis Poor Develop Poor InterOOM Por V Abd Chalk Cht Gry-Wht Op Shp Vit Tr Sh Red Fissil V Sli Tr-No Scatt Min Flor No Odor N

Ls Wht-Crm-Gry FxIn Dns Micrite Grad Poor OOM Por w/Poor Leach Dis Poor Develop Poor InterOOM Por V Abd Chalk Cht Gry-Wht Op Shp Vit Tr Sh Red Fissil V Sli Tr-No Scatt Min Flor No Odor NS

Ls Wht-Crm-Gry FxIn Dns Micrite Grad Poor OOM Por w/Poor Leach Dis Poor Develop Poor InterOOM Por V Abd Chalk Cht Tan Op Shp Vit Tr Sh Red Fissil V Sli Tr-No Scatt Min Flor No Odor NS

Ls Crm-Wht FxIn Dns Micrite Abd Chalk Sh Char-Grn Fissil V Sli Tr-V Sli Tr Scatt Min Flor No Odor NS

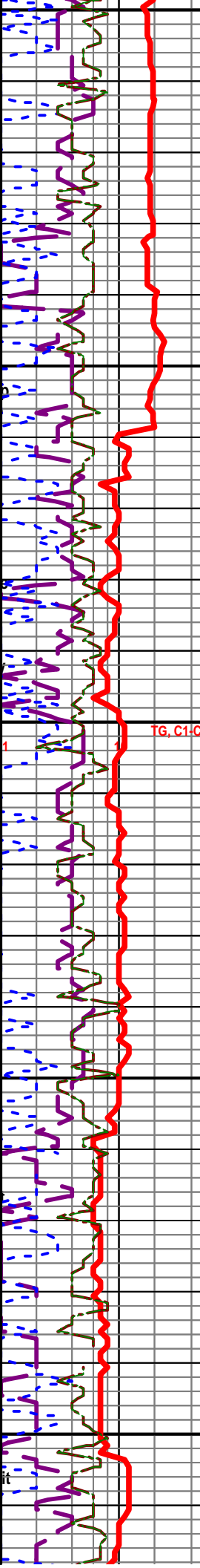
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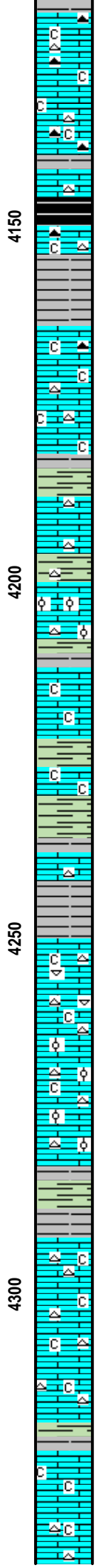
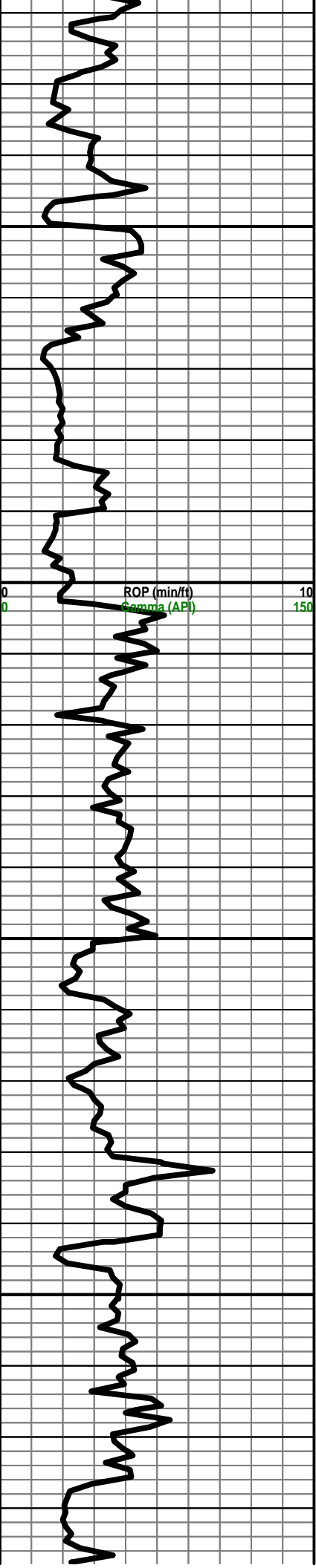
Ls Crm-Wht-Gry FxIn Dns Micrite Dec Chalk Cht Drk Gry-Blk Op Shp Vit Sh Char-Red Fissil V Sli Tr-V Sli Tr Scatt Min Flor No Odor NS

Sh Char-Gry-Aqua- Blk Carb Fissil Ls Crm-Wht-Gry FxIn Dns Micrite Dec Chalk Sli Tr-V Sli Tr Scatt Min Flor No Odor NS

Sh Blk Carb Char-Gry Fissil Ls Crm-Wht-Gry FxIn Dns Micrite Cht Blk Op Shp Vit Dec Chalk V Sli Tr-V Sli Tr Scatt Min Flor No Odor N

Ls Crm-Gry FxIn Dns Micrite Chalk Cht Gry-Wht Op Shp Vit Tr Sh Blk Carb AA Fissil V Sli Tr-No Scatt Min Flor No Odor N





Ls Crm-Gry FxIn Dns Micrite Chalk Cht Gry-Blk Op Shp Vit Tr Sh Blk Carb AA Fissil V Sli Tr-No Scatt Min Flor No Odor NS

Ls Crm-Gry FxIn Dns Micrite Chalk Cht Gry-Blk Op Shp Vit Tr Sh Blk Carb AA Fissil V Sli Tr-No Scatt Min Flor No Odor NS

HEEBNER 4146' (- 1325)

Sh Blk Carb Fissil Ls Crm-Gry FxIn Dns Micrite Chalk Cht Gry-Blk Op Shp Vit Tr Sh Blk Carb AA Fissil V Sli Tr-No Flor No Odor NS

Sh Blk Carb Fissil Ls Crm-Gry FxIn Dns Micrite Chalk Cht Gry-Blk Op Shp Vit Tr Sh Blk Carb AA Fissil V Sli Tr-No Flor No Odor NS

TORONTO 4164' (- 1343)

Ls Wht FxIn Dns Micrite V Hvy Abd Chalk Sh Blk AA-Char Fissil V Sli Tr-V Sli Tr Scatt Min Flor No Odor NS

Ls Wht FxIn Dns Micrite V Hvy Abd Chalk Cht Wht Op Shp Vit Sh Blk AA-Char Fissil V Sli Tr-V Sli Tr Scatt Min Flor No Odor NS

DOUGLAS 4184' (- 1363)

Ls Wht FxIn Dns Micrite Dec Chalk Cht Wht Op Shp Vit Sh Blk AA-Char Fissil No Flor No Odor NS

Ls Wht FxIn Dns Micrite Abd Chalk Cht Wht Op Shp Vit Sh Char-Gry Grn Fissil V Sli Tr-V Sli Tr Scatt Min Flor No Odor NS

Ls Wht-Crm FxIn Dns Micrite Grad Poor OOM Por w/Poor Leach Dis Poor Develop Poor InterOOM Por Abd Chalk Cht Wht-Gry Op Shp Vit Sh Gry-Char-Grn Tr. Blk Carb AA Fissil No Flor No Odor NS

Ls Brn FxIn Dns Micrite Tr Chalk Sh Grn Fissil No Flor No Odor NS

Ls Brn-Crm-Wht FxIn Dns Micrite Tr Chalk Sh Grn-Gry Fissil No Flor No Odor NS

IATAN 4238' (- 1417)

Sh Grn-Gry Fissil "Gummy" Soft Ls Crm-Gry FxIn Dns Micrite Abd Chalk No Flor No Odor NS

LANSING 4250' (- 1429)

Ls Wht-Crm Wht FxIn Dns Micritic Poor IxIn Por Barren Fos (Pelecyp) Cht Wht Op shp Vit Dec Chalk Sh Char Fissil No Odor Scatt ? Min Flor N

Ls Wht-Crm Wht FxIn Dns Micritic Poor IxIn Por Barren Grad Poor Gran Por w/Poor Igran Por Tr Sm OOL in pl Poor Dis Poor Develop Cht Wht Op shp Vit Dec Chalk Sh Char Fissil No Odor Scatt ? Min Flor NS

Ls Wht-Crm Wht FxIn Dns Micritic Poor IxIn Por Barren Grad Poor Gran Por w/Poor Igran Por Tr Sm OOL in pl Poor Dis Poor Develop Cht Wht Op shp Vit Dec Chalk Sh Char Fissil No Odor Scatt ? Min Flor NS

Ls Wht-Crm Wht FxIn Dns Micritic Poor IxIn Por Barren AA Cht Wht-Tan Op shp Vit Pyr Mass Dec Chalk Inc Sh Char-Grn Carb Fissil No Odor Scatt ? Min Flor NS

Ls Wht-Crm Wht FxIn Dns Micritic Poor IxIn Por Barren AA Cht Wht-Tan Op shp Vit Dec Chalk Inc Sh Char-Grn Carb Fissil No Odor Scatt ? Min Flor NS

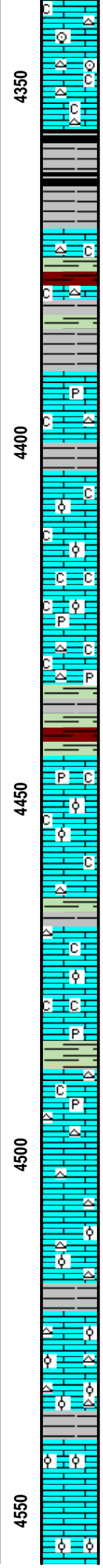
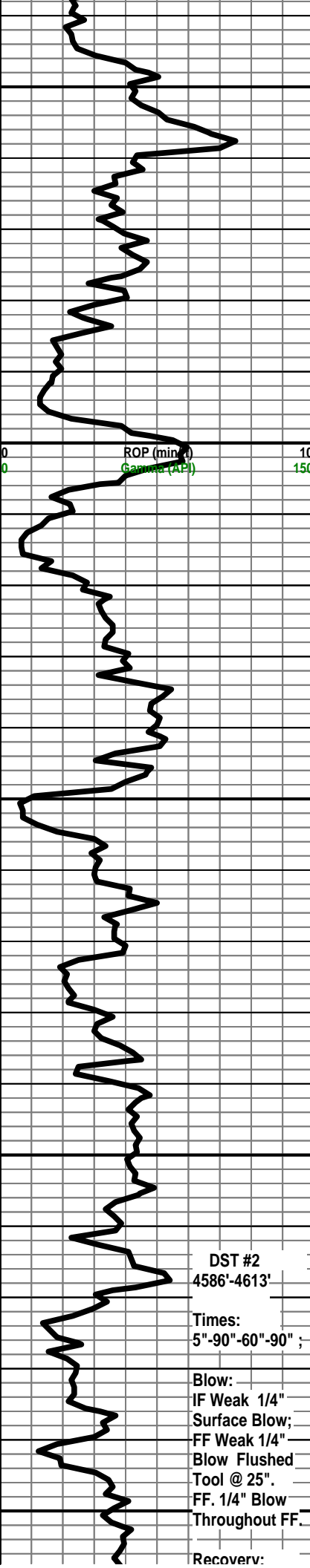
Ls Wht-Crm Wht FxIn Dns Micritic Poor IxIn Por Barren AA Cht Wht-Tan Inc Op shp Vit Dec Chalk Sh Char-Grn Carb Fissil No Odor Sli Dec Scatt ? Min Flor NS

Ls Wht-Crm-Tan FxIn Dns Micritic Poor IxIn Por Barren AA Cht Wht-Tan Dec Op shp Vit Chalk Inc Sh Char-Grn Carb Fissil No Odor Sli Dec Scatt ? Min Flor NS

Ls Wht-Crm-Tan FxIn Dns Micritic Poor IxIn Por Barren AA Chalk Inc Sh Char-Grn Carb Fissil No Odor Sli Dec Scatt ? Min Flor NS

Ls Wht-Crm-Tan FxIn Dns Micritic Poor IxIn Por Barren AA Chalk Inc Sh Char-Grn Carb Fissil No Odor Sli Dec Scatt ? Min Flor NS

RE @ 11



Ls Wht-Crm-Tan Fxln Dns Micritic Poor Ixln Por Barren AA Cht Wht-Tan Dec Op shp Vit Chalk Inc Fos Crin Sh Char-Grn Fissil No Odor Sli Inc Scatt ? Min Flor NS

Ls Wht-Crm-Tan Fxln Dns Micritic Poor Ixln Por Barren AA Cht Wht-Tan Dec Op shp Vit Chalk Inc Fos Crin Sh Char-Blk Carb Fissil No Odor Sli Inc Scatt ? Min Flor NS

Ls Wht-Crm-Tan Fxln Dns Micritic Poor Ixln Por Tr Gran Por w/ Poor Intergran Por Barren AA Cht Wht-Tan Dec Op Shp Vit Chalk Dec Sh Char-Blk Carb Inc Fissil No Odor Sli Inc Scatt ? Min Flor NS

Ls Wht-Crm-Tan Fxln Dns Micritic Poor Ixln Por Tr Gran Por w/ Poor Intergran Por Barren AA Cht Wht-Tan Dec Op Shp Vit Inc Chalk Sh Char-Grn-Tr Red Fissil No Odor Sli-No Scatt ? Min Flor NS

Ls Crm-Tan-Gry Fxln w/ Pry Inclus Dns Micritic Poor Ixln Por Tr Gran Por w/ Poor Intergran Por Barren AA Pyr Mass Cht Wht Dec Op Shp Vit V Abd Chalk Sh Char-Grn Inc Fissil No Odor Sli Scatt ? Min Flor NS

Ls Crm-Tan-Gry Fxln w/ Pry Inclus Dns Micritic Poor Ixln Por Tr Gran Por w/ Poor Intergran Por Barren AA Pyr Mass Cht Wht Dec Op Shp Vit V Abd Chalk Sh Char-Grn Inc Fissil No Odor Sli Scatt ? Min Flor NS

Ls Crm-Wht Fxln Dns Micritic Poor Ixln Por Barren Grad Good Med-Lg OOM Por Fair-Good Dis w/ OOL in pl Fair-Good Develop Fair-Good InterOOM Por Fair Leaching Por Barren Abd Chalk Sh Gry-Grn Fissil No Odor Scatt ? Min Flor AA NS

Ls Crm-Wht Fxln Dns Micritic Poor Ixln Por Barren Grad Good Med-Lg OOM Por Fair-Good Dis w/ OOL in pl Fair-Good Develop Fair-Good InterOOM Por Fair Leaching Por Barren Abd Chalk Sh Gry-Grn Fissil No Odor Scatt ? Min Flor AA NS

Ls Crm-Tan-Gry Fxln w/ Pry Inclus Dns Micritic Poor Ixln Por Tr OOM por AA Barren Cht Wht-Gry Op Shp Vit Tr Chalk Sh Char-Grn Fissil No Odor Tr Scatt ? Min Flor NS

Sh V Abd Char-Grn-Aqua Fissil w/Pyr Inclus Ls Dec Crm-Tan-Gry Fxln w/ Pry Inclus Dns Micritic Poor Ixln Por Barren Cht Wht-Gry Op Shp Vit Tr Chalk No Odor Tr Scatt ? Min Flor NS

Sh V Abd Char-Grn-Red-Aqua Fissil Ls AA Crm-Tan-Gry Fxln w/Pyr Mass Dns Micritic Poor Ixln Por Barren Tr Chalk No Odor V Sli Tr Scatt ? Min Flor NS

Ls Wht-Crm AA Fxln Dns Micritic Poor Ixln Por Barren Grad Good-Med-Lg OOM Por Fair-Good Dis w/ OOL in pl Fair-Good Develop Fair-Good InterOOM Por Fair Leaching Por Barren Abd Chalk Sh Gry-Grn Fissil No Odor Scatt ? Min Flor AA NS

Ls Wht-Crm-Gry Fxln w/Pry Inclus Dns Micritic Poor Ixln Por Barren Cht Wht-Gry Op Shp Vit Tr Chalk Sh Char-Grn Fissil No Odor Tr Scatt ? Min Flor NS

Ls Wht-Crm AA Fxln Dns Micritic Poor Ixln Por Barren Grad Good Lg OOM Por Fair-Good Dis w/ OOL in pl Fair-Good Develop Fair-Good InterOOM Por Fair-Good Leaching (1 Pc Excellent) OOL Por Barren Abd Chalk Sh Gry-Grn Fissil No Odor Scatt ? Min Flor AA NS

Ls Wht-Crm-Gry Fxln w/Pry Inclus Dns Micritic Poor Ixln Por Barren Cht Wht-Gry Op Shp Vit Tr Chalk Sh Char-Grn Fissil No Odor Tr Scatt ? Min Flor NS

Ls Wht-Crm-Gry Fxln Dns Micritic Poor Ixln Por Barren Cht Wht-Gry Op Shp Vit w/OOL in pl Tr Chalk Sh Char-Grn Fissil No Odor Tr Scatt ? Min Flor NS

Ls Wht-Crm-Gry Fxln Dns Micritic Poor Ixln Por Barren Cht Wht-Gry Op Shp Vit Sh Char-Grn Fissil No Odor Tr Scatt ? Min Flor NS

Ls Wht-Crm-Gry Fxln Dns Micritic Poor Ixln Por Barren Grad Good Med-Lg OOM Por Poor-Fair Dis w/ OOL in pl Fair-Med Develop Fair-Med InterOOM Por Fair-Med Leaching OOM Por Cht Wht-Gry Op Shp Vit Inc Chalk Sh Char-Grn Fissil No Odor Tr Scatt ? Min Flor NS

Ls Wht-Crm-Gry Fxln Dns Micritic Poor Ixln Por Barren Grad Tr Good Med-Lg OOM Por AA Poor-Fair Dis w/ OOL in pl Fair-Med Develop Fair-Med InterOOM Por Fair-Med Leaching OOM Por Cht Wht-Gry Op Shp Vit Abd Chalk Sh Char-Grn Fissil No Odor Tr Scatt ? Min Flor NS

Ls Wht-Crm-Gry Fxln Dns Micritic Poor Ixln Por Barren Grad Tr Good Med-Lg OOM Por AA Poor-Fair Dis w/ OOL in pl Fair-Med Develop Fair-Med InterOOM Por Fair-Med Leaching OOM Por Cht Wht-Gry Op Shp Vit Abd Chalk Sh Char-Grn Fissil No Odor Tr Scatt ? Min Flor NS

Ls Wht-Crm-Gry Fxln Dns Micritic Poor Ixln Por Barren Tr OOM Por AA Sh Char-Grn Fissil No Odor Tr Scatt ? Min Flor NS

Ls Wht-Crm-Gry Fxln Dns Micritic Poor Ixln Por Barren Tr OOM Por AA Sh Char-Grn Fissil No Odor Tr Scatt ? Min Flor N

DST #2
4586'-4613'

Times:
5"-90"-60"-90"

Blow:
IF Weak 1/4"
Surface Blow;
FF Weak 1/4"
Blow Flushed
Tool @ 25"
FF. 1/4" Blow
Throughout FF

Recoverv:

RE-Z
DAQ
BKG
UNIT

Mu
@
Vis
Pv

Ch
Sol
LC
DM
CM

30' Mud w/Tr. Oil
On Top Of Tool.

Pressures:
IH 2196#;
FH 2168#;
IF 65-36#;
FF 61-44#;
ISIP 1394#;
FSIP 1285#;
Temp = 110
Degrees F.

ROP (min/ft)
Gamma (AI)
DST #2
4586' - 4613'

CFS @ 4613'
20" - 45" - 60"

Pipe Strap @
4613' = .90'
Long to
Board.

4600

4650

4700

4750

Ls Wht-Crm-Gry FxIn Dns Micritic Poor IxIn Por Barren Tr OOM Por AA Sh
Char-Grn Fissil No Odor Tr Scatt ? Min Flor N

Ls Wht-Crm-Gry FxIn Dns Micritic Poor IxIn Por Barren Cht Gry Op Shp Vit Sh
Char-Grn Fissil No Odor Tr Scatt ? Min Flor NS

STARK 4586' (- 1765)

Sh Blk Carb Fissil V Abd Fair Odor Fair "Streaming Gas Bubbles" SG in Sh Ls Wht FxIn Poor IxIn Por
Tr Pin-Pt IxIn Por w/Pyr Inclus Cht AA V Sli Stn ? Min Flor SSG

SWOPE 4590' (-1769)

20" CFS Ls Wht FxIn w/ Tr Poor-Fair OOL Por w/OOL in pl Poor-Fair Leaching Por w/Tr Vug Pin-Pt Por
w. Sli SG/SO Faint Odor Sli Flor (Lt Grn) w/ SO/SG (few pcs)

45" CFS Ls Wht FxIn w/ Tr Poor-Fair IXIn Pin-Pt Por Poor-Fair Leaching Por w/Tr Vug Leached Por
Sli SG/SO Faint Odor Sli Flor (Lt Grn) w/ SO/SG (few pcs) Cht Gry Op Shp Vit SSG/SSO

60" CFS Ls Wht FxIn w/ Tr Poor-Fair IXIn Pin-Pt Por Poor-Fair Leaching Por w/Tr Vug Leached Por
Sli SG/SO No Odor Sli Flor (Lt Grn) w/ SO/SG (few pcs) Hvy Stn (Drk Blk 1 Pc w/ Fair SO/SG)
FairSO/SG (Few Pcs) Sli SG/SO

HUSHPUCKNEY 4628' (- 1807)

Sh Blk Carb Fissil Ls Wht-Gry FxIn Poor IxIn Por Micritic Chalk Cht AA No Flor
No Odor NS

Ls Wht-Gry FxIn Poor IxIn Por Micritic Chalk Cht AA Sh Blk Carb Fissil No Flor
No Odor NS

Sh Blk Carb -Char Abd Fissil Ls Wht-Gry FxIn Poor IxIn Por Micritic Chalk Cht
AA Wht-Brn Op Shp Vit Char Sh Blk Char Fissil Tr Scatt ? Min Flor No Odor NS

Ls Crm-Tan FxIn Dns Micritic Poor IxIn Por Barren Grad Tr Poor OOM Por Poor
Dis w/ OOL in pl Poor Develop Poee-No InterOOM Por Poor-No Leaching OOM
Por Chalk Sh Char Fissil No Odor Tr Scatt ? Min Flor NS

BASE KANSAS CITY 4676' (- 1855)

Sh Char Abd Fissil Ls Wht-Gry FxIn Poor IxIn Por Micritic Chalk Tr Scatt ? Min
Flor No Odor NS

Sh Char Abd Fissil Ls Gry FxIn Poor IxIn Por Mricritic Chalk Tr Scatt ? Min Flor
No Odor NS

Sh Char Abd Fissil Ls Gry Inc FxIn Poor IxIn Por Micritic Chalk Tr Scatt ? Min
Flor No Odor NS

Sh Char Abd Fissil Ls Gry Inc FxIn Poor IxIn Por Micritic Chalk Tr Scatt ? Min
Flor No Odor NS

Sh Char Abd Fissil Ls Gry Inc FxIn Poor IxIn Por Micritic Chalk Tr Scatt ? Min
Flor No Odor NS

MARMATON 4722' (- 1901)

Ls Wht-Crm FxIn Poor IxIn Por Micritic Chalk Cht Drk Blk-Gry Op Shp Vit Chalk
Sh Char AA Fissil No Flor No Odor NS

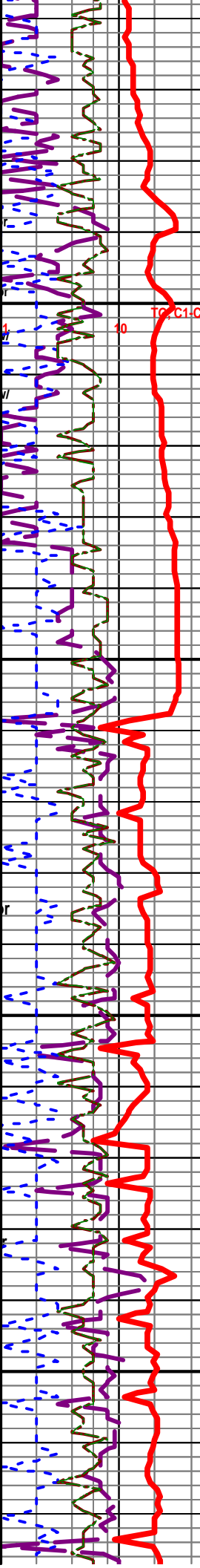
Ls Wht-Crm FxIn Poor IxIn Por Micritic Chalk Cht -Gry Op Shp Vit Chalk Sh Char
AA Fissil No Flor No Odor NS

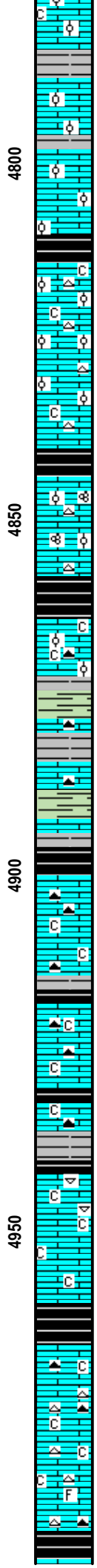
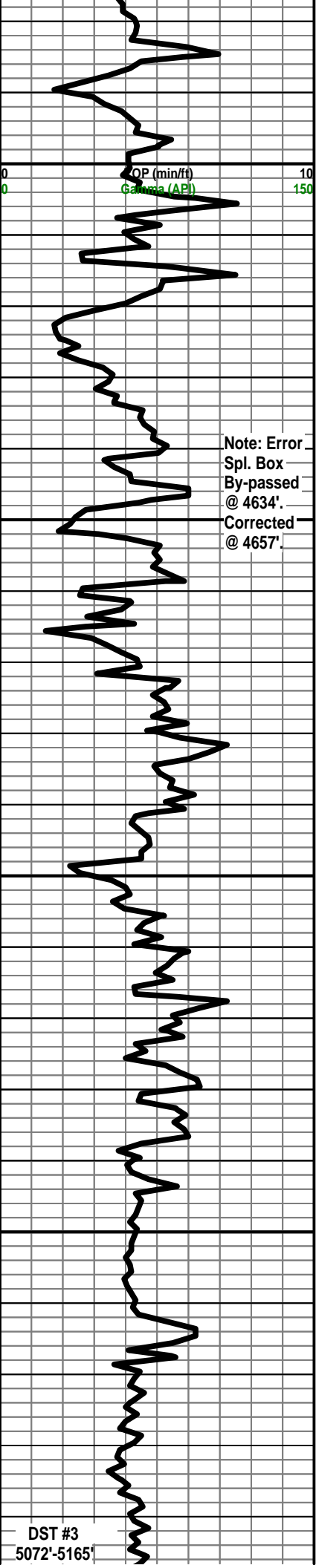
Ls Wht-Crm FxIn Poor IxIn Por Micritic Grad Poor Small OOM Por Barren w/Tr
OOL in pl Fair-Good Dis Fair Inter OOL Por Chalk Cht -Gry Op Shp Vit Sh Char
AA Fissil No Flor No Odor NS

Ls Wht-Crm FxIn Poor IxIn Por Micritic Grad Poor Small OOM Por Barren w/Tr
OOL in pl Fair-Good Dis Fair Inter OOL Por Chalk Sh Char AA Fissil No Flor No
Odor NS

Ls Wht-Crm Poor Small OOM Por Barren w/Tr OOL in pl Fair-Good Dis Fair Inter
OOL Por Grad FxIn Poor IxIn Por Micritic Chalk Sh Char AA Fissil No Flor No
Odor NS

Ls Wht-Crm FxIn Poor IxIn Por Micritic Grad Poor Small OOM Por Barren w/Tr
OOL in pl Fair-Good Dis Fair Inter OOL Por Chalk Sh Char AA Fissil No Flor No





Odor NS

Ls Wht-Crm Fxln Poor Ixln Por Micritic Grad Poor Small OOM Por Barren w/Tr OOL in pl Fair-Good Dis Fair Inter OOL Por Chalk Sh Char AA Fissil No Flor No

Odor NS

Ls Wht-Crm Fxln Poor Ixln Por Micritic Grad Poor Small OOM Por Barren w/Tr OOL in pl Fair-Good Dis Fair Inter OOL Por Chalk Sh Char AA Fissil No Flor No

Odor NS

Ls Wht-Gry Fxln Poor Ixln Por Micritic w/ Tr Poor OOM Por AA Tr Chalk Cht Tan Op Shp Vit AA Sh Blk Carb-Char Gry Grn Soft- Fissil No Flor No Odor NS

PAWNEE 4815' (- 1994)

Ls Wht-Crm-Gry Fxln Poor Ixln Por Micritic w/ Tr Poor OOM Por AA Tr Chalk Cht Tan Op Shp Vit AA Sh Char-Gry Grn Soft- Fissil No Flor Faint Odor NS

Ls Wht-Crm-Gry Fxln Poor Ixln w/tr Pry Includ Por Micritic w/ Tr Poor OOM Por AA Tr Chalk Cht Tan Op Shp Vit AA Sh Char-Gry Grn Soft- Fissil Tr Sli ? Min Flor No Odor NS

FORT SCOTT 4845' (-2024)

Ls Wht-Crm-Gry Fxln Poor Ixln w/tr Pry Includ Por Micritic w/ Tr Poor OOM Por AA Fos Foram Tr Chalk Cht Tan Op Shp Vit AA Sh Blk Carb Char-Gry Grn Soft- Fissil Tr Sli ? Min Flor No Odor NS

CHEROKEE SHALE 4859 (-2038)

Sh Blk Carb Char-Gry Grn Soft- Fissil Abd Ls Wht-Crm-Gry Fxln Poor Ixln w/ Tr Poor OOM Por w/tr Leaching Por AA Tr Chalk Cht Tan-Gry Op Shp Vit AA Tr Sli ? Min Flor No Odor NS

Sh Char-Gry-Grn Tr Blk Carb Soft- Fissil Abd Ls Wht-Crm-Gry Fxln Poor Ixln Por Micritic Tr Chalk Cht Tan-Gry Op Shp Vit AA Tr Sli ? Min Flor No Odor NS

Sh Char-Gry-Grn Soft- Fissil Abd Ls Wht-Crm-Gry Fxln Poor Ixln Por Micritic Tr Chalk Cht Tan-Gry Op Shp Vit AA Tr Sli ? Min Flor No Odor NS

Sh Blk Carb Abd Tr Char-Gry-Grn Soft- Fissil Ls Wht-Crm-Gry Fxln Poor-Fair Ixln Por Micritic in pt. Tr Ls Crm w/ Tr.Ixln Fair Por w/ tr Vug Leaching w/ Sli SO Pcs) Tr Chalk Tr Sli ? Min Flor No Odor Tr Sli

Ls Crm-Gry Fxln Poor Ixln w/tr Pry Includ Por Micritic Tr Chalk Sh Char-Gry Grn Soft- Fissil Tr Inc ? Min Flor (lt Grn) No Odor NS

Ls Wht-Crm-Gry Fxln Poor Ixln w/tr Pry Includ Por Micritic Tr Chalk Cht Tan Op Shp Vit Sh Char-Gry Grn Soft- Fissil Tr Inc ? Min Flor No Odor NS

Ls Wht-Crm-Gry Fxln Poor Ixln w/tr Pry Includ Por Micritic Tr Chalk Cht Tan Op Shp Vit Sh Blk Carb Abd Tr Char-Gry Grn Soft- Fissil Tr Inc ? Min Flor No Odor NS

Ls Crm-Tan-Gry Fxln Poor Ixln Por Micritic Cht Tan Op Shp Vit Conc Sh Tr Blk Carb- Char Soft- Fissil No Flor No Odor NS

Ls Crm-Tan-Gry Fxln Poor Ixln Por Micritic Tr Poor-Pin-Pt Por Barren Fos (Pelec) Chalk Sh Tr Blk Carb- Char Tr Soft- Fissil No Flor No Odor NS

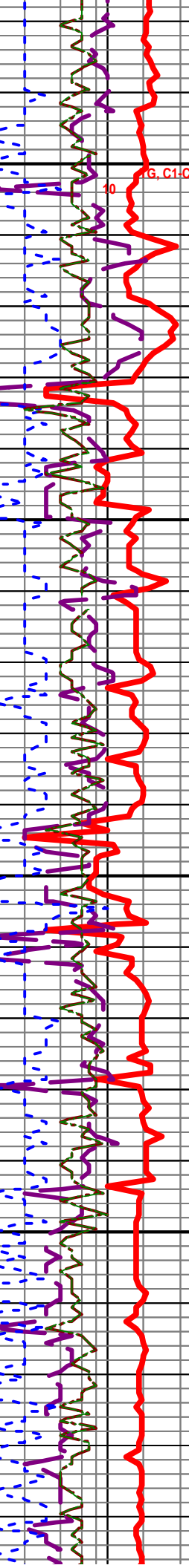
Ls Crm-Tan-Gry Fxln Poor Ixln Por Micritic Tr Poor-Pin-Pt Por Barren Chalk Sh Blk Carb- Char Tr Soft- Fissil No Flor No Odor NS

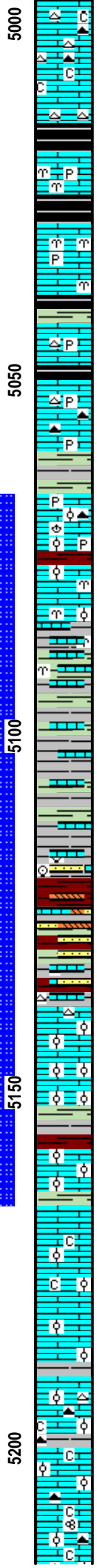
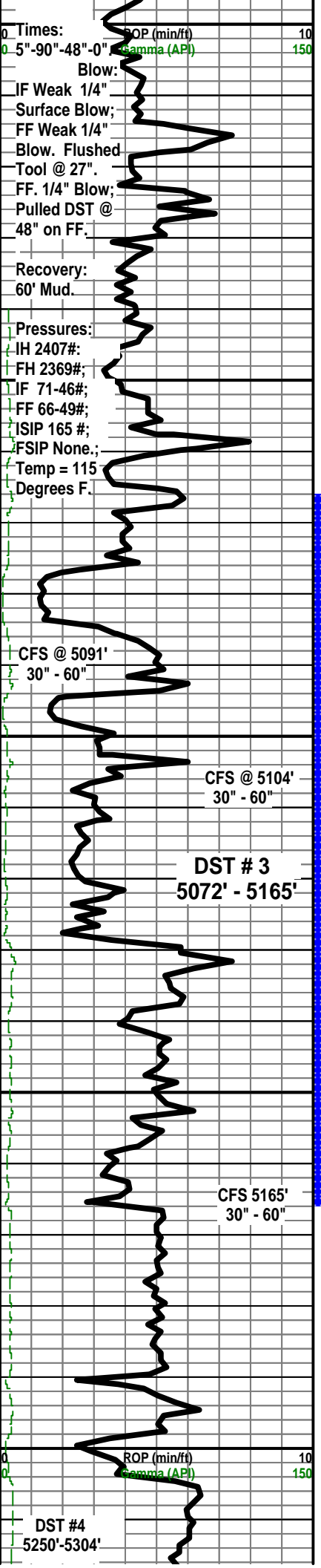
Ls Crm-Tan-Gry Fxln Poor Ixln Por Micritic Tr Poor-Pin-Pt Por Barren Chalk Cht Blk Op Shp Vit Sh Blk Carb Abd - Char Tr Soft- Fissil No Flor No Odor NS

Ls Crm-Tan-Gry Fxln Poor Ixln Por Micritic Tr Poor-Pin-Pt Por Barren Fos (Foram) Chalk Cht Gry Op Shp Vit Tr Sh Blk Carb - Char Soft- Fissil No Flor No Odor NS

Ls Crm-Tan-Gry Fxln Poor Ixln Por Micritic Tr Poor-Pin-Pt Por Barren Cht Tan-Brn Op Shp Vit w/Fos Abd (Spicule) Chalk Tr Sh Blk Carb - Char Soft- Fissil No Flor No Odor NS

Ls Crm-Tan-Gry Fxln Poor Ixln Por Micritic Tr Poor-Pin-Pt Por Barren Cht Tan-Brn Op Shp Vit Chalk Tr Sh Blk Carb - Char Soft- Fissil No Flor No Odor NS





Ls Crm-Tan-Gry Fxln Poor Ixln Por Micritic Tr Poor-Pin-Pt Por Barren Cht
Tan-Brn Op Shp Vit Chalk Tr Sh Blk Carb - Char Soft- Fissil No Flor No Odor NS

Ls Crm-Tan-Gry Fxln Poor Ixln Por Micritic Tr Poor-Pin-Pt Por Barren Cht
Tan-Brn Op Shp Vit Chalk Tr Sh Blk Carb - Char Soft- Fissil No Flor No Odor NS

Ls Crm-Tan-Gry Fxln Poor Ixln Por Micritic w/Tr Pyr Inclus Barren Fos (Bryoz)
ABD Chalk Tr Sh Blk Carb - Char Soft- Fissil No Flor No Odor N

Ls Crm-Gry-Drk Gry Fxln Poor Ixln Por Micritic w/Tr Pyr Inclus Barren Fos
(Bryoz) ABD Chalk Tr Sh Blk Carb - Char Soft- Fissil No Flor No Odor NS

?? MORROW SHALE 5038' (-2217)

Sh Blk Carb - Char-Grn Soft- Fissil Ls Crm-Gry-Drk Gry Fxln Poor Ixln Por
Micritic w/Tr Pyr Inclus Barren Cht Amber No Flor No Odor N

Ls Crm-Gry-Drk Gry Fxln Poor Ixln Por Micritic w/Tr Pyr Inclus Barren Cht Amb
Sh Tr Blk Carb - Char-Grn AA Soft- Fissil No Flor No Odor NS

Sh Char-Grn-Gry Soft- Fissi Ls Crm-Gry-Drk Gry AA Fxln Poor Ixln Por Micritic
w/Tr Pyr Inclus Barren Cht Amber No Flor No Odor N

Ls Crm-Gry-Drk Gry AA Fxln Poor Ixln Por Micritic w/ Pry Inclus Tr Poor OOL Por
w/OOL in pl Poor Dis Fos (Brach) Barren Cht Amber AA Sh Char-Grn-Gry Soft-
Fissil No Flor No Odor NS

30" CFS Ls Crm-Gry AA Fxln Poor Ixln Por Micritic w/ Pry Inclus Tr Poor OOM/OOL Por w/OOL in pl
Poor Dis Tr Pin-Pt Por w/VSSO (Drk Brn) Fos (Bryoz) Barren Sh Char-Gry-Tr Red Soft- Fissil No Flor
No Odor NS

60" CFS Ls Crm-Gry Arg LS AA Fxln Poor Ixln Por Micritic w/ Pry Inclus Tr Poor OOM/OOL Por w/OOL
in pl Poor Dis Fos (Bryoz) Barren Sh Char-Gry- Grn Inc Soft- Fissil No Flor No Odor NS

30" CFS Sh Abd Char-Gry-Grn Char-Olive-Aqua Varicolored Sh (80% in Tray) Tr Ls Dec AA (20% of
Tray) No Odor No Stn No Flor N!

60" CF Sh Abd Char-Gry-Grn Char-Olive-Aqua Varicolored Sh (80% in Tray) Tr Ls Dec AA (20% of
Tray) No Odor No Stn No Flor NS

Sh Abd Char-Gry-Grn Char-Olive-Aqua Varicolored Sh (80% in Tray) Tr Ls Dec
AA (20% of Tray) No Odor No Stn No Flor NS

Sh AA Inc Red varicolored (Wash Red) Ls Crm-Gry Arg LS AA Fxln Poor Ixln Por Micritic w/ Pry Incls
Qtz Ss Fgrn Well Sorted w/ Poor-Fair Igran Por (CaCO3 Matril) w/Tr VSSO (Few Pcs) Friable Fos (Crib)
No Odor

Sh AA Inc Red varicolored (Wash Red) Ls Crm-Gry Arg LS Inc Fxln Poor Ixln Por Micritic Qtz Ss Fgrn
Well Sorted w/ Poor-Fair Igran Por (CaCO3 Matril) w/Tr VSSO (Few Pcs) Friable Cht Org Op Shp Vit
No Odor

MISSISSIPPIAN STE. GEN 5138' (- 2317)

Ls Wht-Crm Fxln Grad Gran Por w. Fair Igran Fxln Por w/ OOL in pl Fgrn Abd
"Sandy Ls" Barren Tr Qtz Ss Fgrn AA Sh Varicolored Char-Gry-Aqua Fissil No
Odor No Stn No Flor NS

30" CFS Ls Wht-Crm Fxln Grad Gran Por w. Fair Igran Fxln Por w/ OOL in pl Fgrn Abd "Sandy Ls"
Scat Lt Brn Stn w/ Scatt SG/SO (Few Pcs) Sandy CaCo3 Fgrn Friable AA Sh Varicolored
Char-Gry-Aqua -Red Fissil No Odor Sli Scatt Stn Flor (Lt Grn) Sli SG/SO

60" CFS Ls Wht-Crm Fxln Grad Gran Por w/ Fair Igran Fxln Por w/ OOL in pl Fgrn Abd "Sandy Ls"
Scat Lt Brn Stn w/ Tr Scatt SG/SO (Few Pcs) Sandy CaCo3 Fgrn Friable AA Cht Smoky Gry Transl-Op
Shp Vit Sh Varicolored Sh Char-Aqua Abd Fissil No Odor Sli Scatt Stn Flor (Lt Grn) Sli SG/SO

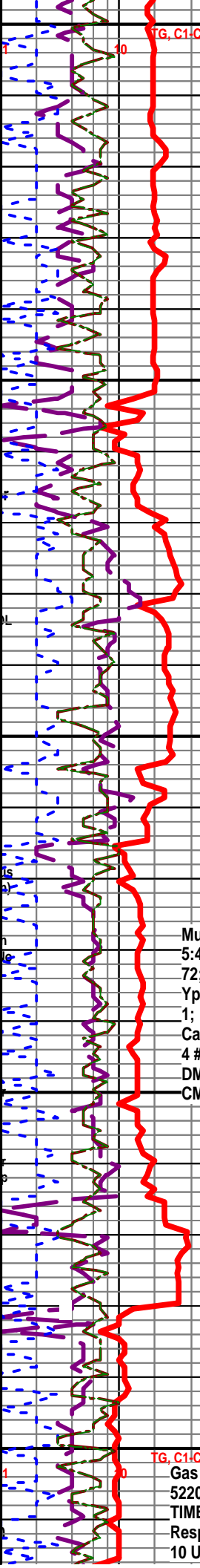
Ls Wht Fxln Grad Gran Por w/ Fair Igran Fxln Por w/ OOL in pl Fgrn Abd "Sandy Ls" Tr Dec Scat Lt
Brn Stn w/ Tr Scatt SG/SO (Few Pcs) Sandy CaCo3 Fgrn Friable AA Tr Chalk Sh Blk Carb (? Sluff)
Char-Aqua-Grn Inc Fissil No Odor Sli Dec Scatt Stn Flor (Lt Grn)-No Stn Flor Sli VS Stn -NS

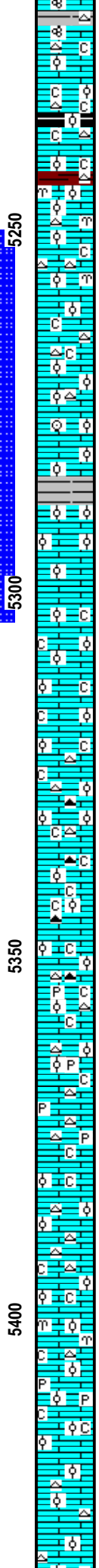
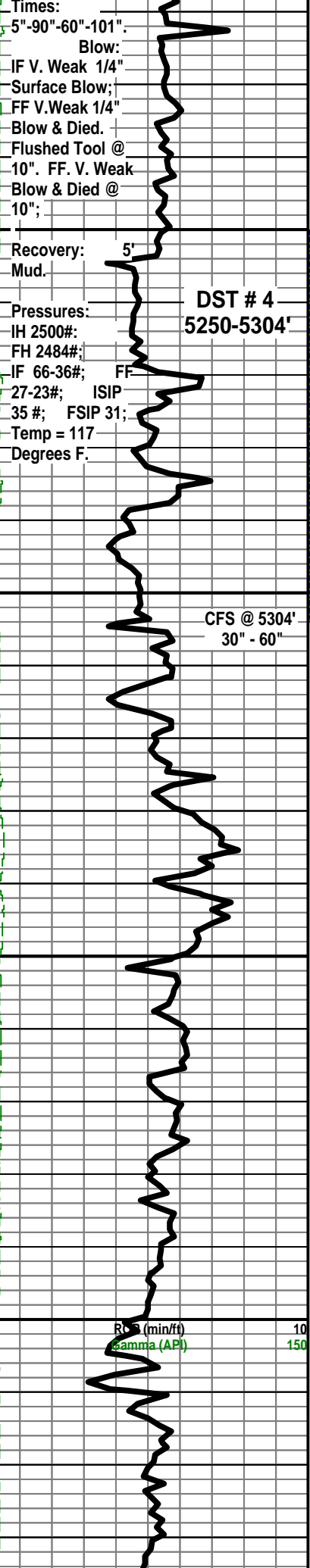
Ls Wht Fxln Grad Gran Por w/ Fair Igran Fxln Por w/ OOL in pl Fgrn Abd "Sandy Ls" Tr Dec Scat Lt
Brn Stn w/ Tr Scatt SG/SO (Few Pcs) Sandy CaCo3 Fgrn Friable AA Tr Chalk Sh Blk Carb (? Sluff)
Char-Aqua-Grn Inc Fissil No Odor Sli Dec Scatt Stn Flor (Lt Grn)-No Stn Flor Sli VS Stn -NS

Ls Wht Fxln Grad Gran Por w/ Fair Igran Fxln Por w/ OOL (Inc in Size) in pl Fgrn Abd Tr Med Grn
"Sandy Ls" CaCo3 Fgrn Friable Cht Org Op-Transl Op Shp Vit Tr Chalk Sh Blk Carb (? Sluff)
Char-Aqua-Grn Inc Fissil No Odor Sli Dec Scatt Stn Flor (Lt Grn)-No Stn Flor Sli VS Stn -NS

? ST. LOUIS 5204' (-2383)

Ls Wht Fxln Grad Gran Por w/ Fair Igran Fxln Por w/ OOL (Inc in Size) in pl Fgrn
Abd Tr Med Grn "Sandy Ls" CaCo3 M-Fgrn Friable Cht Org-Tan Op-Transl Op
Shp Vit Fos (Foram) Tr Chalk Sh Blk Aqua-Grn Inc Tr Char Fissil No Odor No Stn
Flor NS





? ST. LOUIS "B" BENCH MARKER 5222' (- 2401)

Ls Wht FxIn Grad Gran Por w/ Fair Igran FxIn Por w/ OOL (Inc in Size) in pl Fgrn Abd Tr Med Grn "Sandy Ls" CaCaCO M-Fgrn Friable Tr Glacu Cht Tan Op-Transl Op Shp Vit Tr Chalk Sh Bk Carb-Aqua-Grn Inc Fissil No Odor No Stn Flor NS

Ls Wht F-MxIn Grad Gran Por w/ F-M Igran F-MxIn Por w/ OOL in pl F-Mgrn Tr "Sandy Ls" CaCaCO M-Fgrn Friable Cht Org-Tan Op-Transl Op Shp Vit Tr Chalk Sh Aqua-Grn-Red-Char Fissil No Odor Sli ? Min Flor (Dull- Lt Grn) NS

Ls Wht FxIn Grad Gran Por w/ Fair Igran FxIn Por w/ OOL (Inc in Size) in pl Fgrn Abd Tr Med Grn "Sandy Ls" CaCaCO M-Fgrn Friable Tr Glacu Cht Tan Op-Transl Op Shp Vit Tr Chalk Sh Bk Carb Aqua-Grn Fissil No Odor Sli ? Min Flor (Dull- Lt Grn) N

Ls Wht F-MxIn Grad Gran Por w/ F-M Igran F-MxIn Por w/ OOL in pl F-Mgrn Tr "Sandy Ls" CaCaCO M-Fgrn Friable Tr Glacu Fos (Bryoz) Cht Tan Op-Transl Op Shp Vit Tr Chalk Sh Bk Carb- Aqua-Grn Red Inc Fissil No Odor Sli ? Min Flor (Dull- Lt Grn) NS

Ls Wht F-MxIn Grad Gran Por w/ F-M Igran F-MxIn Por w/ OOL in pl F-Mgrn Tr "Sandy Ls" CaCaCO M-Fgrn Friable Tr Glacu Fos (Bryoz) Cht Tan Op-Transl Op Shp Vit Tr Chalk Sh Bk Carb- Aqua-Grn Red Inc Fissil No Odor Sli ? Min Flor (Dull- Lt Grn) NS

Ls Wht F-MxIn Grad Gran Por w/ F-M Igran F-MxIn Por w/ OOL in pl F-Mgrn Tr "Sandy Ls" CaCaCO M-Fgrn Friable Cht Tan Inc Op-Transl Op Shp Vit Tr Fos (Crin) Chalk Sh Aqua-Grn-Red-Char Fissil Odor Sli ? Min Flor (Dull- Lt Grn) NS

Ls Wht F-MxIn Grad Gran Por w/ F-M Igran F-MxIn Por w/ OOL in pl F-Mgrn Tr Abd OOL im pl w/ Poor-Fair InterOOL Por M-Fgrn Cht Tan-Amber Op-Transl Op Shp Vit Tr Fos (Bryoz) Chalk Sh Aqua-Grn-Red-Char AA Fissil Faint Inc Odor Sli ? Min Flor (Dull- Lt Grn) ? NS

30" CFS Ls Wht MxIn Good OOL Por w/OOL in pl w/Med-Good InterOOL Por w/ Fair to Good SG/SO (Few Pcs) Soft Easily Broken w/Scat Stn Around OOL Chalk Sh Aqua-Grn-Red-Char AA Fissil Faint Odor AA Sli Scat Flor (Lt Grn) Gas/Oil Flor (Lt Grn) Fair-Good SO/SG

60" CFS Ls Wht MxIn Dec OOL Por w/OOL in pl w/Fair-Med InterOOL Por w/ Tr SG/SO (Few Pcs) w/Scat Stn Around OOL Dec Stn Chalk Sh Aqua-Grn-Red-Char AA Fissil Faint Odor AA Sli Scat Flor (Lt Grn) Gas/Oil Flor (Lt Grn) Fair Dec SO/SG

Ls Wht F-MxIn Dec OOL Por w/Abd OOL in pl w/Poor InterOOL Por w/ Poor- No Dis Cht Gry Op Shp Vit Tr Chalk Sh Aqua-Grn-Red-Char AA Fissil No Odor No Flor NS

Ls Wht-Gry F-MxIn Dec OOL Por w/Abd OOL in pl w/Poor InterOOL Por w/ Poor- No Dis Inc FxIn Micrite Barren Cht Clear-Gry Transl-Op Shp Vit Tr Chalk Sh Aqua-Grn-Red-Char AA Fissil No Odor No Flor NS

Ls Wht-Gry FxIn Micrite Barren Tr Gran AA w/Tr Small OOL Por-Poor InterOOL Por No Dis Cht Gry-Org Transl-Op Shp Vit Tr Chalk Sh Aqua-Grn-Red-Char AA Fissil No Odor ? Min Flor (1 Pcs Sh w/ Qts Ss Includ w/ Hvy Golden Stn (1 Edge) (? Sluff) - No Flor (Rest of Tray) NS

Ls Wht-Crm-Gry FxIn Micrite Barren Tr Gran AA w/Tr Small OOL Por-Poor InterOOL Por No Dis Cht Gry-Org Transl-Op Shp Vit Tr Chalk Sh Gry-Char-Grn-Red-Char AA Fissil No Odor NS

Ls Wht-Crm-Gry Gran AA w/Tr Small OOL Por-Poor InterOOL Por No Dis FxIn Micrite Barren w/Py Includ Cht Tan-Tr Org Transl-Op Tr/Frac Por Shp Vit Tr Chalk Sh Gry-Char-Grn-Red-Char AA Fissil No Odor NS

Ls Wht-Crm-Gry FxIn Dns Mcritie Grad F-Igran Small OOL Por Poor -Fair InterOOL Por Barren w/Py Includ Cht Tan Transl-Op Shp Vit Tr Chalk Sh Gry-Char-Aqua AA Fissil No Odor No Flor NS

Ls Wht-Crm-Gry FxIn Dns Mcritie Grad F-Igran Small OOL Por Poor -Fair InterOOL Por Barren w/Py Includ Cht Tan Transl-Op Shp Vit Tr Chalk Sh Gry-Char-Aqua AA Fissil No Odor No Flor NS

Ls Wht-Gry FxIn Dns Mcritie Grad F-Igran V Small OOL Por Poor -Fair InterOOL Por Barren Cht Tan Transl-Op Por Shp Vit Tr Chalk Sh Gry-Char-Aqua AA Fissil No Odor No Flor NS

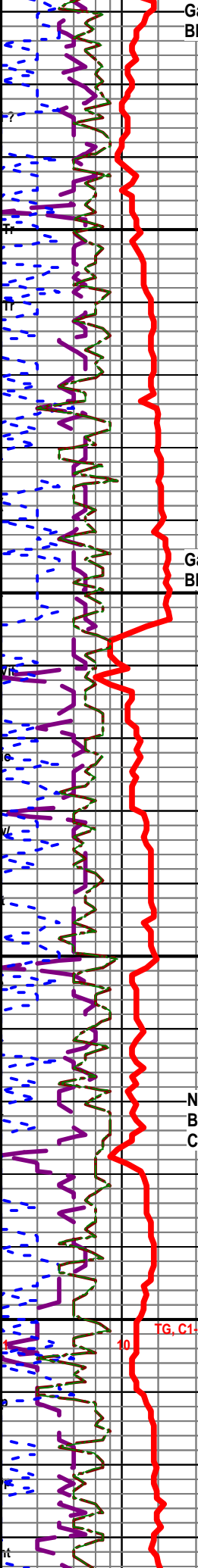
Ls Wht-Gry FxIn Dns Mcritie Grad F-Igran V Small OOL Por Poor -Fair InterOOL Por Barren Cht Tan Transl-Op Por Shp Vit Tr Chalk Sh Gry-Char-Aqua AA Fissil No Odor No Flor NS

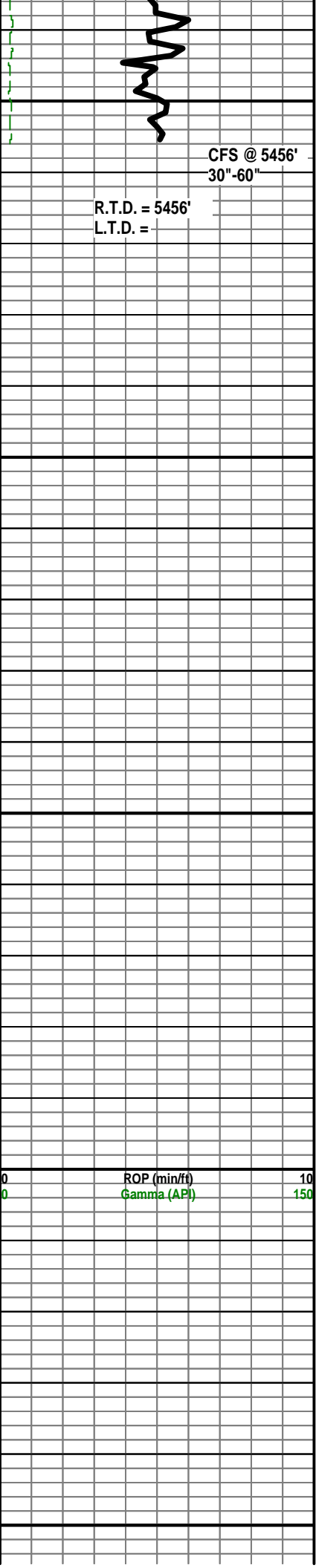
Ls Wht-Gry FxIn Dns Mcritie Grad F-Igran V Small OOL Por Poor -Fair InterOOL Por Barren Fos (Bryoz) Cht Tan Transl-Op Por Shp Vit Tr Chalk Sh Gry-Char-Aqua Fissil No Odor No Flor NS

Ls Wht-Gry FxIn Dns Mcritie Tr F-Igran V Small OOL Por Poor InterOOL Por Barren Cht Tan Transl-Op Por Shp Vit Tr Chalk Sh Char w/Py Includ-Aqua Fissil No Odor No Flor NS

Ls Wht-Gry FxIn Dns Mcritie Tr F-Igran V Small OOL Por Poor InterOOL Por Barren Cht Tan Transl-Op Por Shp Vit Tr Chalk Sh Char-Aqua Red Fissil No Odor No Flor NS

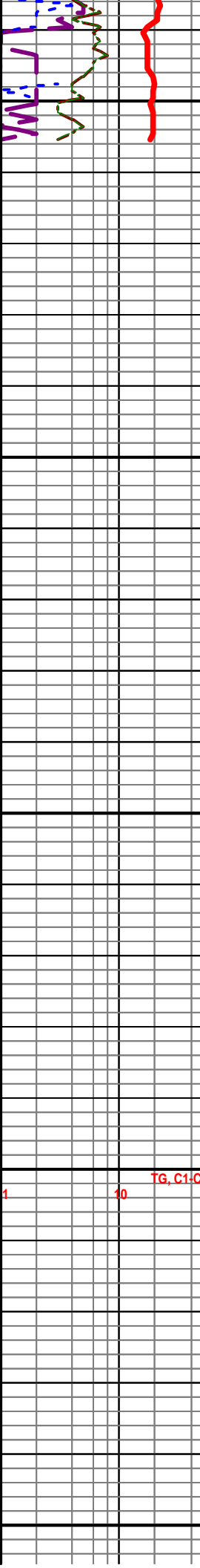
Ls Wht-Gry FxIn Dns Mcritie Tr F-Igran V Small OOL Por Poor InterOOL Por Barren ? Tr Dolo-Gry-Wht FxIn Dns Cht Gry Transl-Op Por Shp Vit Tr Chalk Sh Char-Yell- Red Fissil No Odor No Flor NS





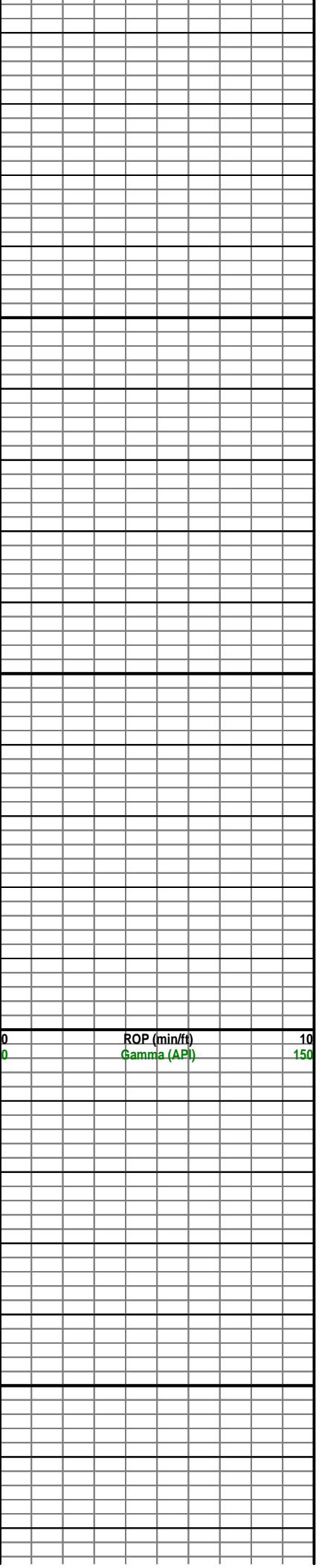
30" CFS Ls Wht-Gry Fxln Dns Mcritie Tr F-Igran V Small OOL Por Poor InterOOL Por Barren Cht
 Wht-Gry Transl-Op Por Shp Vit w/Fos (Crin) Includ Tr Chalk Sh Char-Yell-Aqua Fissil No Odor No FI
 NS

60" CFS



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

1 10 TG, C1-C



5700

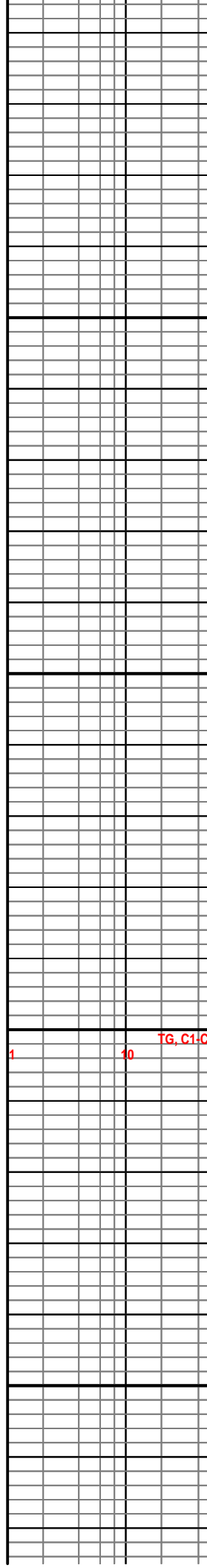
5750

5800

5850

ROP (min/ft)
Gamma (API)

10
150



1

10

TG, C1-C

