



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

Well Name: # 1 CHAPIN-GAY
Location: SEC. 23 - 10 S. - 46 W.
License Number: A.P.I. # 05-063-06345-00-00
Spud Date: 08/04/2012
Surface Coordinates: SPOT: APPROX. 2028' FSL & 2537' FEL

Region: KIT CARSON CO., CO.
Drilling Completed: 08/17/12

**Bottom Hole
Coordinates:**
Ground Elevation (ft): 4479' **K.B. Elevation (ft):** 4490'
Logged Interval (ft): SURFACE To: 5850' **Total Depth (ft):** 5860'
Formation: MISSISSIPPIAN "ST. JOE"
Type of Drilling Fluid: CHEMICAL MUD

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

OPERATOR

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

GEOLOGIST

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

CASING's & LOST CIRC. & DEVIATION

Ran 9 Jts 8 5/8" (24#) Surface Casing Tallied @ 392' & set at 378'. Cemented w/ 295 sx Common 3% cc 2% Gel. Cement Did Circulate to Surface.

Deviation Survey's Taken: @ 393' = 1/2 degree; @ 1251' = 3/4 degree; @ 1756' = 1 1/4 degrees; @ 2260' = 3/4 degree; @ 2766' = 1/2 degree; @ 3320' = 1/4 degree; @ 4191' 1/4 degree; @ 4695' = 1 degree; @ 5199' = 1 1/4 degree @ 5717' = 1 1/2 degree; @ 5860' = degree.

DSTs

DST #1 5643'-5717'. Times: 10"-30"-30"-45". Blow: IF= Weak 1/2"; FF= No Blow". Recovery: 30' M.
Pressures: IH= 2866#; FH = 2735#; IF = 22-25#; FF = 26-28#;
ISIP = 85#; FSIP = 53#; Temp= 142 degrees F.

Comments

ROCK TYPES

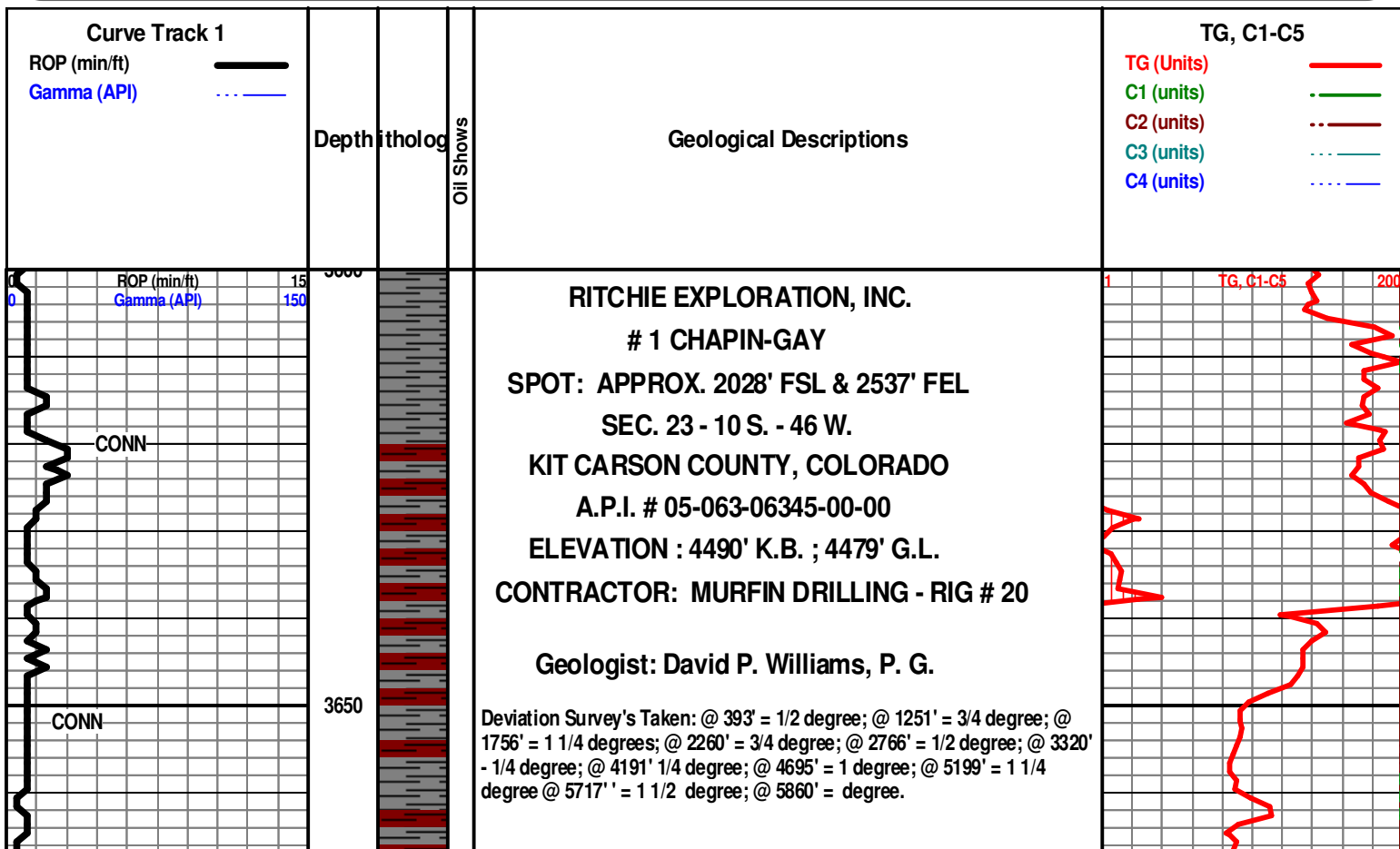
	Anhy		Clyst		Gry shale		Mrlst		Shgy
	Bent		Coal		Gyp		Red shale		Sltst
	Brec		Congl		Igne		Salt		Ss
	Cht		Dol		Lmst		Shale		Till
	Carb sh		Grn sh		Meta		Shcol		

ACCESSORIES

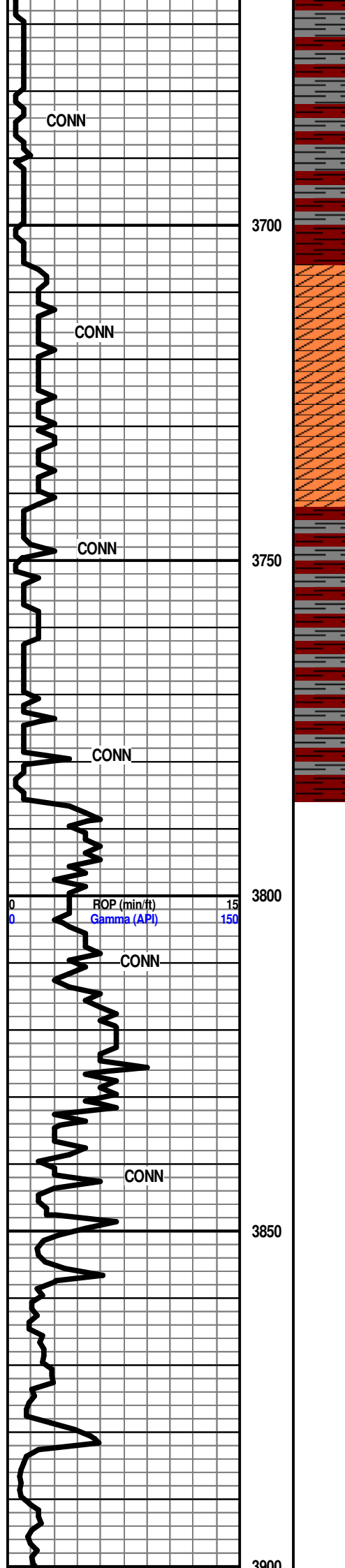
MINERAL			Hvymin		Belm		Pellet		Ssstrg
	Anhy		Kaol		Bioclst		Pisolite	TEXTURE	
	Arggrn		Marl		Brach		Plant		Boundst
	Arg		Minxl		Bryozoa		Strom		Chalky
	Bent		Nodule		Cephal	STRINGER			Cryxln
	Bit		Phos		Coral		Anhy		Earthy
	Brecfrag		Pyr		Crin		Arg		Finexln
	Calc		Salt		Echin		Bent		Grainst
	Carb		Sandy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

OTHER SYMBOLS

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



LOST CIRCULATION FROM: 3420' = 60 bBLS.

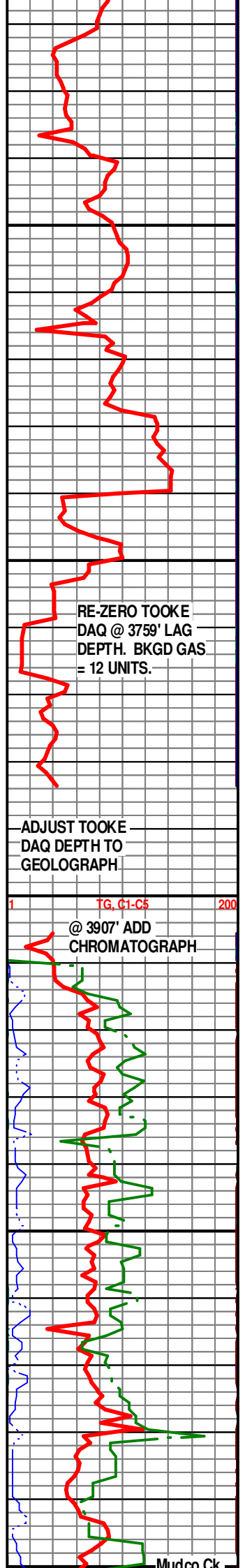


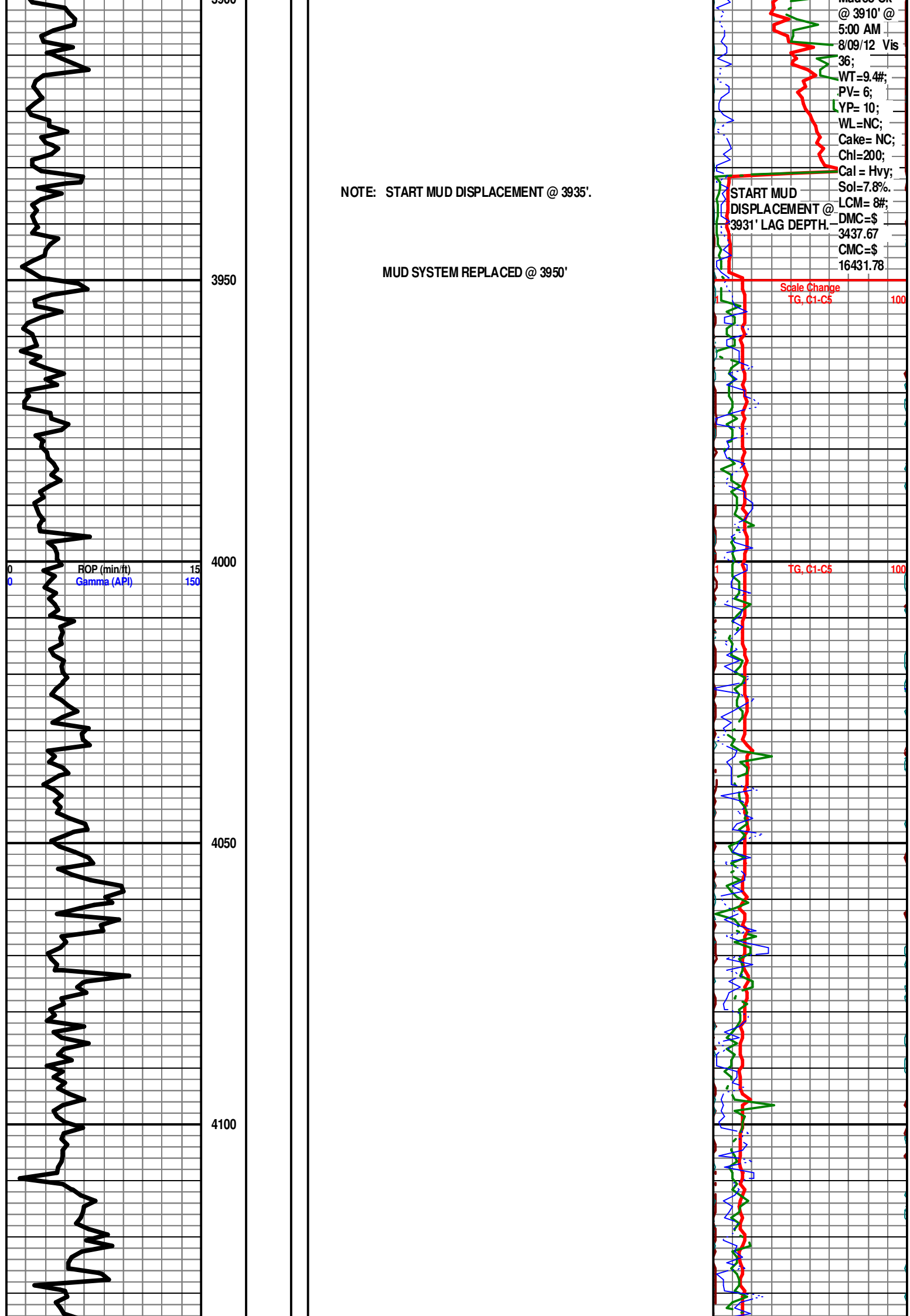
STONE CORRAL 3706' (+ 784)

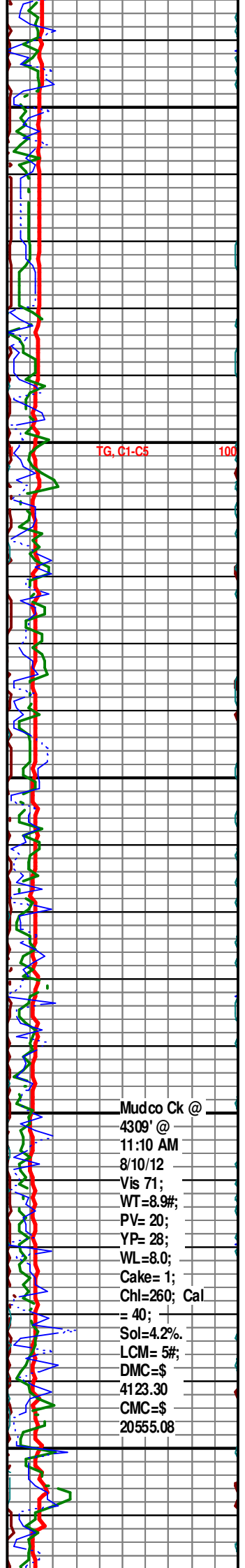
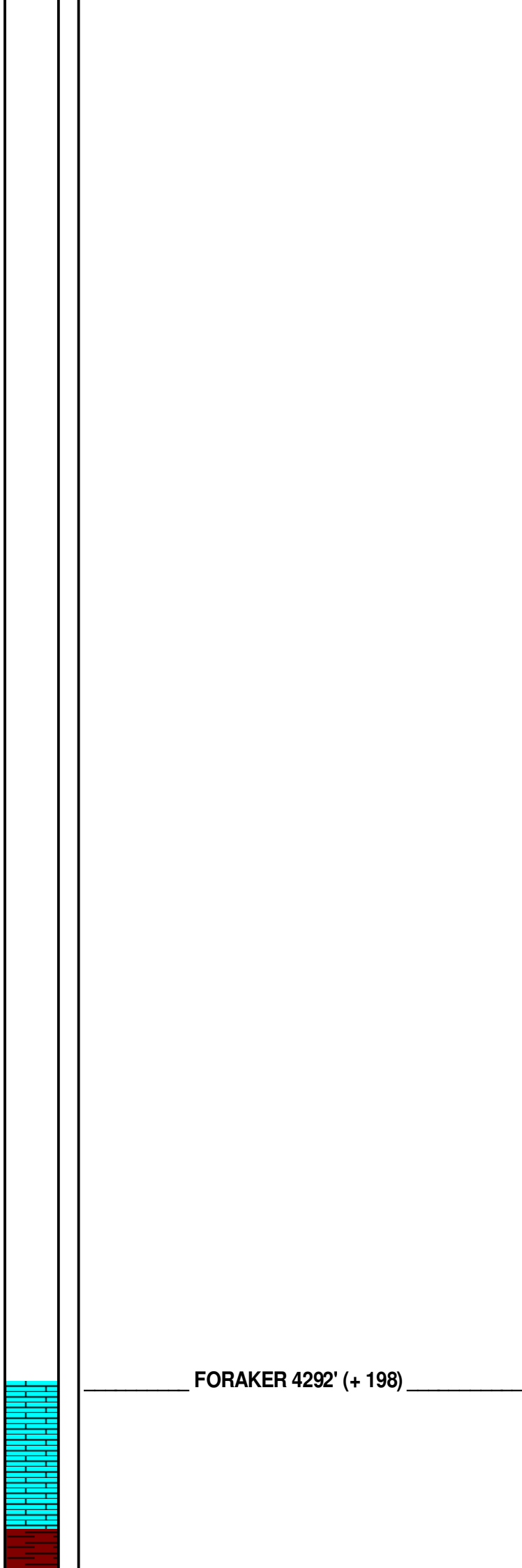
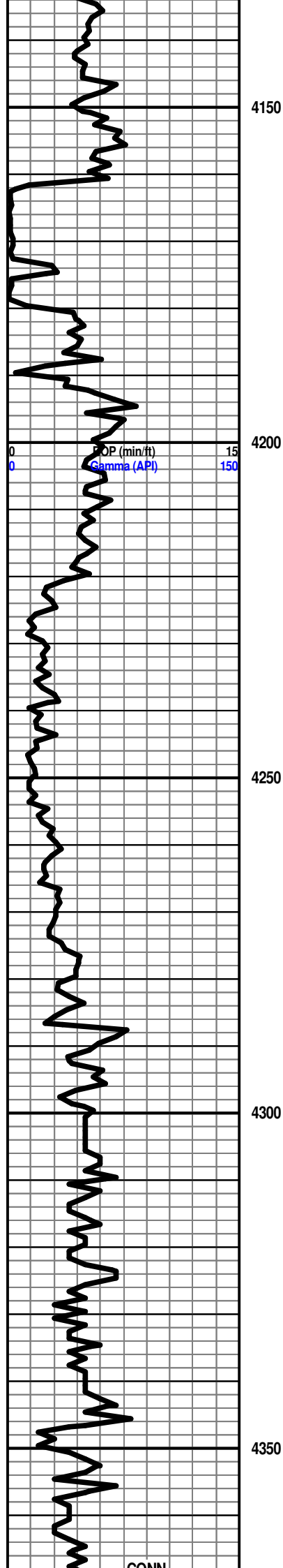
BASE STONE CORRAL 3742' (+ 748)

Plugged PDC Bit - Bit Trip @ 3786'. Replace With Button Bit.

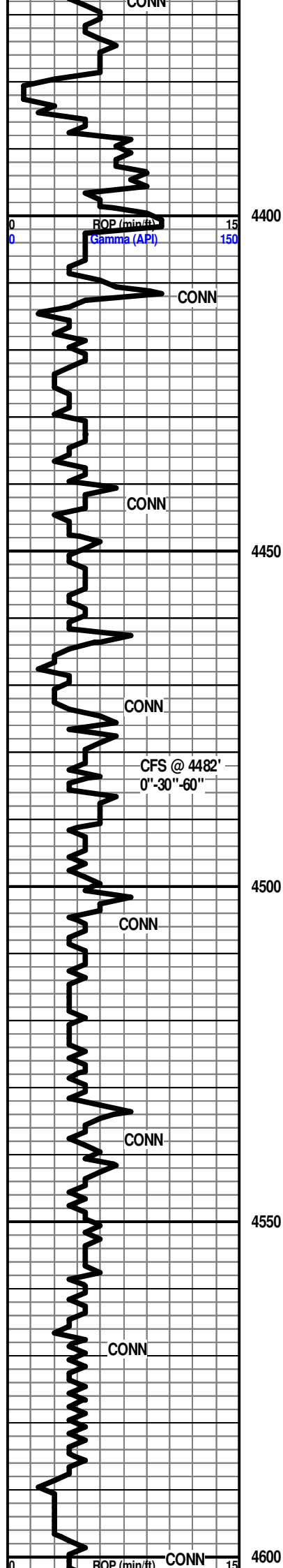
Geologist on location @ (3780') 10:00 PM 8-8-12







Mudco Ck @
4309' @
11:10 AM
8/10/12
Vis 71;
WT=8.9#;
PV= 20;
YP= 28;
WL=8.0;
Cake= 1;
Chl=260; Cal
= 40;
Sol=4.2%.
LCM= 5#;
DMC=\$
4123.30
CMC=\$
20555.08



Note: All samples have been lagged to depth by calculated time.
Begin 10' Sample Examination @ 4482'.

0" CFS @ 4482' Sh Red (V Abd)-Char-Aqua Soft-Fissil Ls Wht Fxln Dns
Micrite Tr/Poor Pin-Pt Ixln Por Chalk Wht No Odor No Stn Fair ? Min Flor
NS

30" CFS @ 4482' Ls Wht-Crm-Tan-Gry Microxln-Fxln Micrite Chalk AA Sh
AA No Odor No Stn Poor Dec ? Min Flor NS

60" CFS @ 4482' Ls Wht-Crm-Tan-Gry Microxln-Fxln Micrite Chalk AA Sh
AA No Odor No Stn Poor Dec ? Min Flor NS

Ls Wht-Crm-Tan-Gry Microxln-Fxln Micrite Chalk AA Sh AA No Odor No
Stn Poor Dec ? Min Flor Tr Only NS

Ls Cmm-Tan-Gry Microxln-Fxln Micrite Chalk AA Sh AA No Odor No Stn
Poor ? Min Flor Tr Only NS

Ls Cmm-Tan-Gry-Purp Microxln-Fxln Micrite Chalk AA Sh AA No Odor No
Stn Poor ? Min Flor Tr Only NS

Ls Cmm-Tan-Gry-Purp Microxln-Fxln Micrite Fos (Fuss) Pyr Mass Chalk
AA Sh AA No Odor No Stn Poor ? Min Flor (Sli Inc) NS

Ls Cmm-Tan-Gry-Purp Microxln-Fxln Micrite Fos (Fuss) Pyr Mass Chalk
AA Sh AA No Odor No Stn Poor ? Min Flor (Sli Inc) NS

Ls Cmm-Tan-Gry-Purp Microxln-Fxln Micrite Tr/Qtz Ss Lt Blu Well Sort V
Friable Small Grains Aqua Clay Matrix Piir Igran Por Chalk AA Sh AA No
Odor No Stn Poor ? Min Flor (Sli Inc) NS

Ls Cmm-Tan-Gry-Purp Microxln-Fxln Micrite Tr/Qtz Ss Lt Blu Well Sort V
Friable Small Grains Aqua Clay Matrix Piir Igran Por Chalk AA Sh AA No
Odor No Stn Poor ? Min Flor (Sli Inc) NS

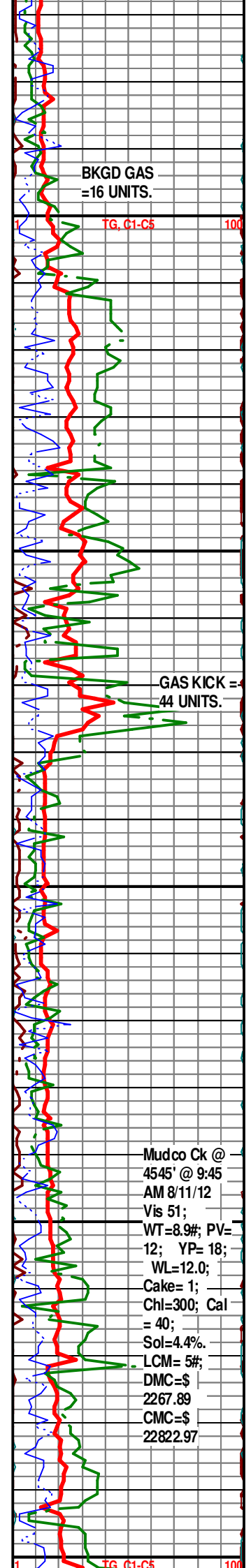
Ls Wht-Gry Fxln Micritic Fos (Spic, Fos) Tr/Qtz Ss Lt Blu Well Sort V
Friable Small Grains Aqua Clay Matrix Poot Igran Por Chalk Wht Tr Only
Sh Red (Tr Only) No Odor No Stn Fair ? Min Flor (Inc Abd) NS

Ls Wht-Gry Fxln Micritic Fos (Spic, Fos) Chalk Wht Sh Red -Maroon- Tr
Aqua No Odor No Stn Fair ? Min Flor NS

Ls Wht-Gry (Inc) Microxln-Fxln Micritic Fos (Spic, Fos) Tr/Qtz Ss Lt Blu
Well Sort V Friable Small Grains Aqua Clay Matrix Poor Igran Por Chalk
Wht Sh Red -Maroon- Tr Aqua No Odor No Stn Fair ? Min Flor NS

Ls Wht-Gry (Inc) Microxln-Fxln Micritic Calcite Xls Chalk Wht Sh Red
-Maroon- Tr Aqua No Odor No Stn Fair ? Min Flor NS

Sh Red -Maroon Siltstone w/Qtz Ss Inclus-Char-Gry-Tr Aqua Ls Wht-Gry
Dns Microxln Micrite No Odor No Stn Fair ? Min Flor NS

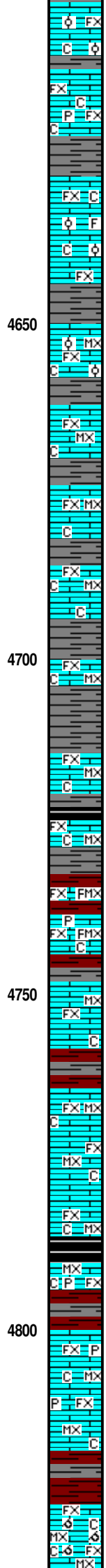
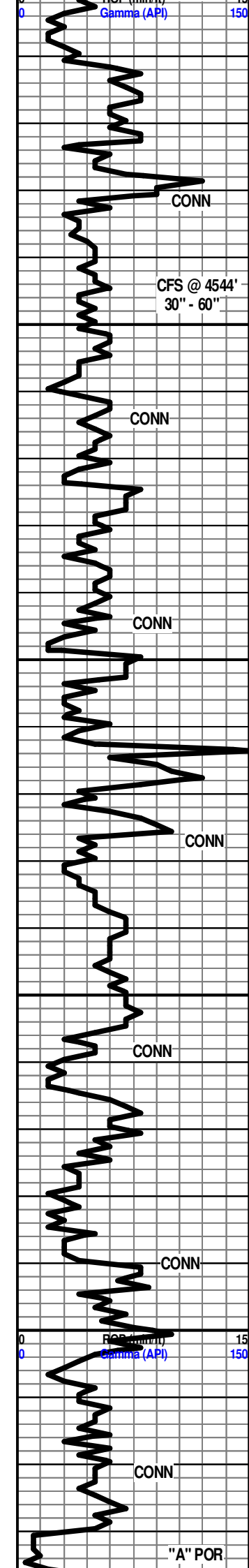


BKGD GAS
=16 UNITS.

TG, C1-C5

GAS KICK =
44 UNITS.

Mudco Ck @
4545' @ 9:45
AM 8/11/12
Vis 51;
WT=8.9#; PV=
12; YP= 18;
WL=12.0;
Cake= 1;
Chl=300; Cal
= 40;
Sol=4.4%
LCM= 5#;
DMC=\$
2267.89
CMC=\$
2282.97



Develop Grad FxIn Poor Pin-Pt IxIn Por Sh Red-Char Tr Soft-Fissil No Odor No Stn Fair ? Min Flor (Inc Abd) NS

Ls Wht-Gry FxIn Dns Micrite Grad FxIn Poor Pin-Pt IxIn Por Grad Tr/Poor-Fair OOL Por w/OOL in pl Poor Leaching Poor Develop AA Sh Red-Char Tr Soft-Fissi No Odor No Stn Fair ? Min Flor (Abd) NS

Ls Wht-Gry FxIn Dns Micrite Grad FxIn Poor Pin-Pt IxIn Por Grad Tr/Poor-Fair OOL Por w/OOL in pl (? Fos) Poor Leaching Poor Develop Chalk Pyr Mass No Odor No Stn Fair ? Min Flor (Abd) NS

SHAWNEE 4630' (-140)

30" CFS @ 4544' Ls Wht-Crm-Tan FxIn Dns Micrite Grad FxIn Poor Pin-Pt IxIn Por Tr OOL (? Fos) Por AA Barren Sh Red-Char Tr Soft-Fissil Chalk No Odor No Stn Fair ? Min Flor (Abd) NS

60" CFS @ 4544' Ls Wht-Crm-Tan FxIn Dns Micrite Grad FxIn Poor Pin-Pt IxIn Por Tr OOL (? Fos) Por AA Barren Chalk Sh Red-Char Tr Soft-Fissil No Odor No Stn Fair ? Min Flor (Abd) NS

Ls Bone Wht-Crm-Gry MicroxIn-FxIn Dns Micrite Grad FxIn Poor Pin-Pt IxIn Por Tr OOL (w/OOL in Pl Tr Only) V Poor Por Barren No Leaching Chalk Sh Red-Char Tr Soft-Fissil No Odor No Stn Fair ? Min Flor (Abd) NS

Ls Wht-Crm-Tan FxIn-MicroxIn Micritic Barren Grad FxIn Poor Pin-Pt IxIn Por Barren Chalk Sh Red-Char Tr Soft-Fissil No Odor No Stn Fair ? Min Flor (Abd) NS

Ls Wht-Crm-Tan FxIn-MicroxIn Micritic Barren Grad FxIn Poor Pin-Pt IxIn Por Barren Chalk Sh Red-Char Tr Soft-Fissil No Odor No Stn Fair ? Min Flor (Abd) NS

Ls Wht-Crm-Tan FxIn-MicroxIn Micritic Barren Grad FxIn Poor Pin-Pt IxIn Por Barren Chalk Calcite Xls Sh Red-Char Tr Soft - Fissil No Odor No Stn Fair ? Min Flor (Abd) NS

Ls Wht-Crm-Tan FxIn-MicroxIn Micritic Barren Chalk Sh Red-Char Tr Soft-Fissil No Odor No Stn Fair ? Min Flor (Abd) NS

Ls Wht-Crm-Tan FxIn-MicroxIn Micritic Barren Grad FxIn Poor Pin-Pt IxIn Por Barren Chalk Sh Red-Char Tr Soft - Fissil No Odor No Stn Fair ? Min Flor (Abd) NS

Ls Wht-Crm-Tan FxIn-MicroxIn Micritic Barren Grad FxIn Poor Pin-Pt IxIn Por Barren Chalk Sh Blk Carb-Red-Char Tr Soft - Fissil No Odor No Stn Fair ? Min Flor (Abd) NS

Ls Wht-Crm-Tan FxIn-MicroxIn Micritic Barren Grad FxIn Poor Pin-Pt IxIn Por Grad Poor Sucrosic IxIn Por Barren Chalk Pyr Mass Sh Char-Red Tr Soft - Fissil No Odor No Stn Fair ? Min Flor (Abd) NS

Ls Wht-Crm-Tan FxIn-MicroxIn Micritic Barren Grad FxIn Poor Pin-Pt IxIn Por Grad Poor Sucrosic IxIn Por Barren Chalk Pyr Mass Sh Red-Char Soft - Fissil No Odor No Stn Fair ? Min Flor (Abd) NS

Ls Wht-Crm-Tan FxIn-MicroxIn Micritic Barren Grad FxIn Poor Pin-Pt IxIn Por Barren Chalk Sh Blk Carb (Tr) -Red-Char Soft-Fissil No Odor No Stn Fair ? Min Flor (Abd) NS

Ls Wht-Crm-Tan FxIn-MicroxIn Micritic Barren Grad FxIn Poor Pin-Pt IxIn Por Grad Poor Sucrosic IxIn Por Barren Chalk Sh Char-Gry-Red Soft - Fissil No Odor No Stn Fair ? Min Flor (Abd) NS

Ls Wht-Crm-Tan FxIn-MicroxIn Micritic Barren Grad FxIn Poor Pin-Pt IxIn Por Grad Poor Sucrosic IxIn Por Barren Chalk Sh Char-Gry-Red Soft - Fissil No Odor No Stn Fair ? Min Flor (Abd) NS

HEEBNER 4786' (-296')

Sh Blk Carb -Char-Gry-Red Soft-Fissil Ls Wht-Crm-Tan FxIn-MicroxIn Micritic Grad FxIn Poor Pin-Pt IxIn Por Barren Pyr Mass Fos (Brach) Chalk No Odor No Stn Fair ? Min Flor NS

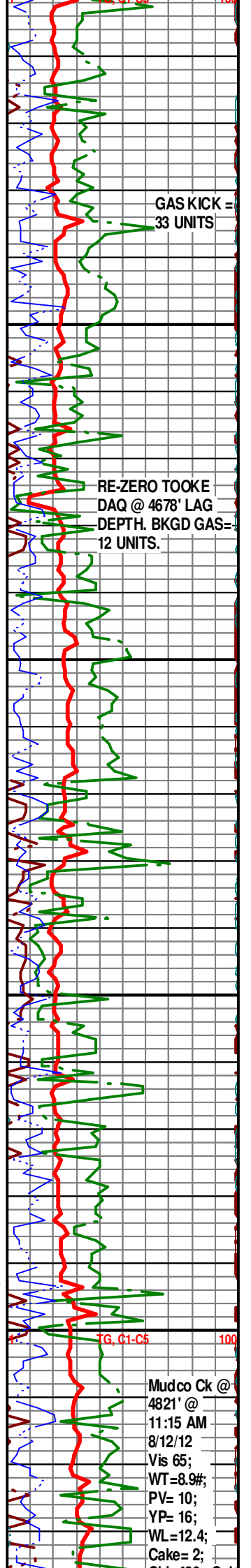
TORONTO 4800' (- 310)

Ls Wht-Crm-Gry FxIn-MicroxIn Micritic Grad FxIn Poor Pin-Pt IxIn Por Barren Pyr Mass Chalk Sh Blk Carb - Char -Gry - Red -Maroon - Aqua Soft-Fissil No Odor No Stn Fair ? Min Flor NS

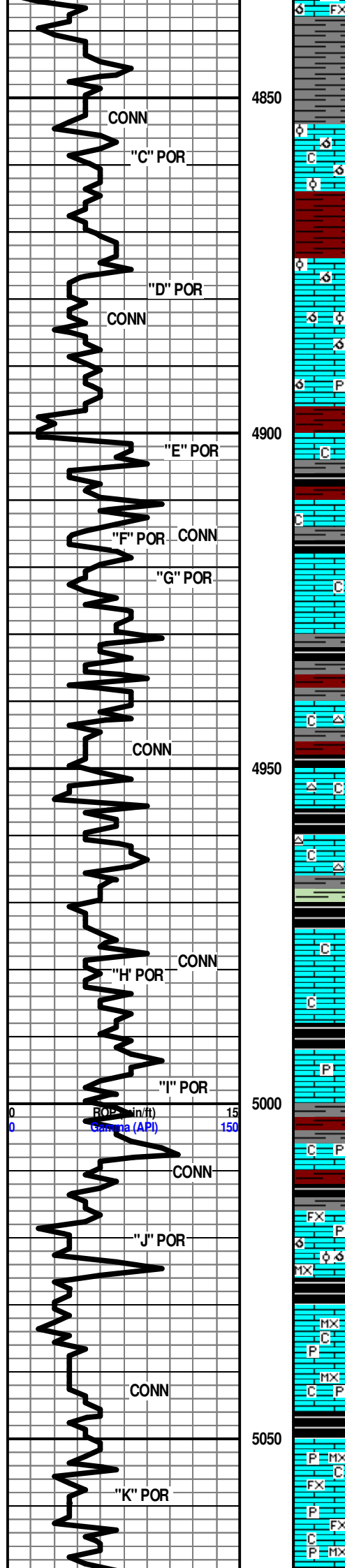
Ls Wht-Crm-Gry FxIn-MicroxIn Micritic Grad FxIn Poor Pin-Pt IxIn Por Barren Pyr Mass Chalk Sh Blk Carb - Char -Gry - Red -Maroon - Aqua Soft-Fissil No Odor No Stn Fair ? Min Flor NS

LANSING 4825' (- 335)

Ls Wht-Crm FxIn-MicroxIn Micritic Barren Grad Tr Poor Pin-Pt IxIn Por Grad Med-Good OOM Por (w/OOL in pl) Tr Med-Good Leaching Med InterOOM Por Med Dissolu Med-Good Develop Chalk Wht Soft Sh Red-Gry-Grn Soft-Fissil Inc No Odor No Stn ? Sil Min Flor NS



Mudco Ck @
4821' @
11:15 AM
8/12/12
Vis 65;
WT=8.9#;
PV= 10;
YP= 16;
WL=12.4;
Cake= 2;



Ls Wht-Crm Fxln-Microxln Micritic Barren Grad Tr Poor Pin-Pt Ixln Por Grad Med-Good OOM Por (w/OOL in pl) Tr Med-Good Leaching Med InterOOM Por Med Dissolu Med-Good Develop Chalk Wht Soft Sh Red-Gry-Grn Soft-Fissil Inc No Odor No Stn ? Sli Min Flor NS

Ls Wht-Crm Fxln-Microxln Micritic Barren Grad Tr Poor Pin-Pt Ixln Por Grad Med-Good OOM Por (w/OOL in pl) Tr Med-Good Leaching Med InterOOM Por Med Dissolu Med-Good Develop Chalk Wht Soft Sh Red-Gry-Grn Soft-Fissil Inc No Odor No Stn ? Sli Min Flor NS

Ls Wht-Crm-Tan Fxln Micrite Grad OOM Por (w/OOL in pl-Few Pcs ? Sluff) Chalk Sh Maroon-Red-Aqua Siltstone Soft-Fissil No Odor No Stn ? Sli Min Flor NS

Ls Wht-Crm-Tan Fxln Micrite Grad OOM Por (w/OOL in pl-Few Pcs ? Sluff) Chalk Sh Maroon-Red-Aqua Siltstone Soft-Fissil No Odor No Stn ? Sli Min Flor NS

Sh Maroon-Red-Aqua Siltstone Soft-Fissil Ls Wht-Crm Fxln Micrite Grad OOM Por (w/OOL in pl-Few Pcs ? Sluff) Chalk No Odor No Stn ? Sli Min Flor NS

Ls Wht-Crm-Gry Fxln Dns Micrite Grad Tr/Fair OOM Por (? Sluff) Chalk Abd Sh Char-Red-Grn (Siltstone w/Pyr Includ) Soft-Fissil No Odor No Stn ? Sli Min Flor NS

Ls Wht-Crm Fxln Dns Micrite Chalk Sh Char-Red Tr Soft-Fissil No Odor No Stn ? Sli Min Flor NS

Ls Wht-Gry Fxln Dns Micrite Chalk Sh Char-Red-Grn Soft-Fissil No Odor No Stn ? Sli Min Flor NS

Sh Blk Carb - Char-Red-Grn Soft-Fissil Ls Wht-Gry Fxln Dns Micrite Tr/Qtz Ss Lt Blu Well Sort V Friable Small Grains Aqua Clay Matrix Poor Igran Por Chalk No Odor No Stn ? Sli Min Flor NS

Sh Blk Carb - Char-Red-Grn Soft-Fissil Ls Wht-Gry Fxln Dns Micrite Tr/Qtz Ss Lt Blu Well Sort V Friable Small Grains Aqua Clay Matrix Poor Igran Por Chalk No Odor No Stn ? Sli Min Flor NS

Ls Wht-Crm Fxln-Microxln Micritic Barren Grad Tr Poor Pin-Pt Ixln Por AA Cht Wht-Gry-Amber Translu Shp Vit Chalk Wht Soft Sh Drk Char-Blk Carb -Red-Maroon-Aqua Soft-Fissil No Odor No Stn ? Sli Min Flor NS

MUNCIE CREEK SHALE 4956' (- 466)

Sh Drk Char-Red-Maroon-Aqua Soft-Fissil Ls Wht-Crm Fxln - Microxln Micritic Barren Grad Tr Poor Pin-Pt Ixln Por Cht Wht-Gry-Amber Translu Shp Vit Tr Chalk Wht Soft No Odor No Stn ? Sli Min Flor NS

KANSAS CITY "DRUM" (H) 4970' (- 480)

Ls Wht-Crm-Gry Microxln Micritic Barren Grad Tr Fxln Pin-Pt Ixln Por Chalk Wht Soft Sh Char-Red-Maroon-Aqua Soft-Fissil No Odor No Stn ? Sli Min Flor NS

Ls Wht-Gry Microxln Micritic Barren Grad Tr Fxln Sucrosic Ixln Por Chalk Wht Soft Sh Blk Carb-Char-Maroon Soft-Fissil No Odor No Stn ? Sli Min Flor NS

Ls Wht-Gry Microxln Micritic Barren Grad Tr Fxln Pin-Pt Ixln Por (w/Tr Pyr Includ) Chalk Wht Soft Sh Char-Maroon-Gry Soft-Fissil No Odor No Stn ? Sli Min Flor NS

Ls Wht-Gry Microxln Micritic Barren Grad Tr Fxln Pin-Pt Ixln Por (w/Tr Pyr Includ) Chalk Wht Soft Sh Char-Maroon-Gry Soft-Fissil No Odor No Stn ? Sli Min Flor NS

Ls Wht-Gry Microxln Micritic Barren Chalk Wht Soft Sh Blk Carb-Char -Red-Maroon-Aqua (w/Tr Pyr Includ) Soft-Fissil No Odor No Stn ? Sli Min Flor NS

Ls Wht-Crm-Gry Fxln-Microxln Dns Micritic Barren Grad Tr Poor OOM Por (w/OOL in pl) Tr Poor Leaching Poor InterOOM Por Poor Dissolu Poor Develop Dec Chalk Wht Soft Sh Blk Carb-Char-Red- Aqua Soft-Fissil No Odor No Stn ? Sli Min Flor NS

Ls Wht-Gry Microxln Micritic Barren Chalk Wht Soft Sh Blk Carb-Char -Red-Maroon-Aqua Soft-Fissil No Odor No Stn ? Sli Min Flor NS

Ls Wht Microxln Micritic Barren Chalk Wht Soft Sh Blk Carb-Char -Red-Maroon-Aqua (w/Tr Pyr Includ) Soft-Fissil No Odor No Stn ? Abd Min (Pale Grn) Flor NS

STARK SHALE 5046' (- 556)

KANSAS CITY " SWOPE" 5050' (- 560)

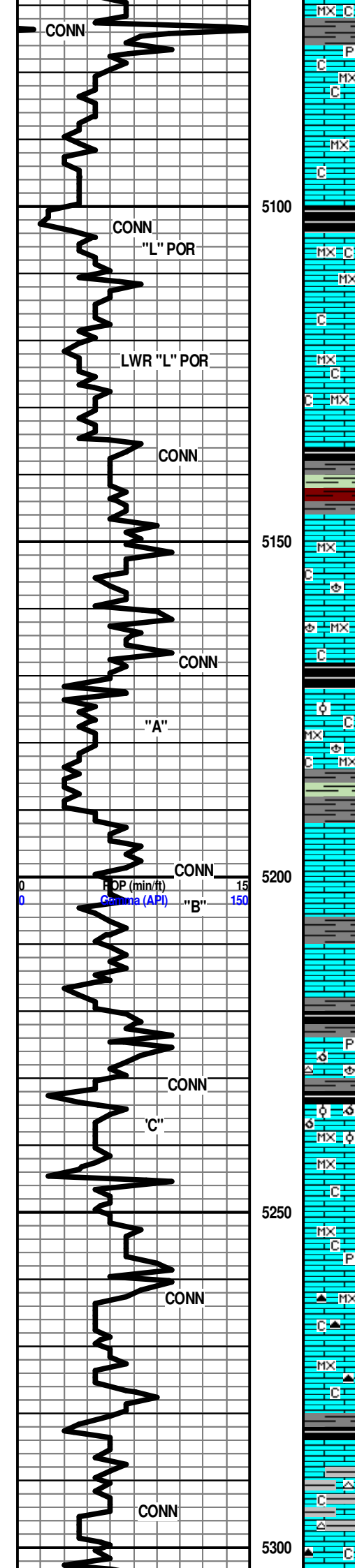
Ls Wht-Gry-Lt Grn Fxln-Microxln Micritic Grad Abd Fair-Med Gran Sucrosic Ixln Por (w/Pyr Includ Abd) Chalk Wht Soft Sh Blk Carb -Char-Red Soft-Fissil No Odor No Stn ? Scat Min Flor NS

Ls Wht-Gry-Lt Grn Fxln-Microxln Micritic Grad Abd Fair-Med Gran Sucrosic Ixln Por (w/Pyr Includ Abd) Chalk Wht Soft Calcite Xls Tr Sh Char-Red Soft-Fissil No Odor No Stn ? Scat Min Flor NS

Chl=420; Cal
= 200;
Sol=4.2%
LCM= 5#;
DMC=\$
2659.75
CMC=\$
25482.72

TG, C1-C5 100

Mudco Ck
@ 5048' @
8:45 AM
8/13/12
Vis 51;
WT=9.4#;
PV= 24;
YP= 14;
WL=5.2;



Ls Wht-Crm-Tan-Gry Microxln Micritic (Tr Pyr Inclus) Barren Chalk Wht Soft Dec Sh Char-Gry-Aqua Fissil (Inc) No Odor No Stn ? Tr Min Flor NS

Ls Wht-Crm-Tan-Gry Microxln Micritic Barren Grad Poor Pin-Pt Ixln Por Chalk Wht Soft Abd Sh Char-Gry-Grn Fissil No Odor No Stn ? Tr Min Flor NS

Ls Wht-Crm-Tan Microxln Micritic Barren Grad Poor Pin-Pt Ixln Por Chalk Wht Soft Abd Sh Char (Tr Only) Fissil No Odor No Stn ? Tr Min Flor NS

HUSHPUCKNEY SHALE 5100' (-610)

KANSAS CITY "HERTHA" (L) 5104' (-614)

Ls Wht-Crm-Gry Microxln Micritic Barren Grad Poor Pin-Pt Ixln Por Chalk Wht Soft Abd Sh Blk Carb-Char (Few Pcs) Fissil No Odor No Stn ? Tr Min Flor NS

Ls Wht-Crm-Gry Microxln Micritic Barren Grad Poor Pin-Pt Ixln Por Chalk Wht Soft Abd Sh Blk Carb-Char (Few Pcs) Fissil No Odor No Stn ? Tr Min Flor NS

Ls Wht-Crm-Gry Microxln Micritic Barren Grad Poor Pin-Pt (w/Pyr Inclus) Ixln Por Chalk Wht Soft Abd Sh Char-Gry (Abd)-Tr Blk Carb Fissil No Odor No Stn ? Tr Min Flor NS

BASE KANSAS CITY 5146' (- 656)

Sh Char-Gry (Abd)-Maroon-Tr Blk Carb (w/Banded Grn)-Lt Grn Siltstone Soft-Fissil Ls Wht-Crm-Gry Microxln Micritic Barren Ixln Por Fos (Brach) Chalk Wht Soft No Odor No Stn ? Tr Min Flor NS

MARMATON 5147' (- 657)

Ls Wht-Crm-Gry Microxln Micritic Barren Ixln Por Grad Fxln Poor Sucrosic Gran Por Fos (Brach) Chalk Wht Soft Sh Char-Gry (Abd)-Maroon-Lt Grn Siltstone Soft-Fissil No Odor No Stn ? Tr Min Flor NS

Ls Wht-Crm-Gry Microxln Micritic Barren Ixln Por Grad Fxln Poor Sucrosic Gran Por Fos (Brach) Chalk Wht Soft Sh Blk Carb-Char-Gry (Abd)-Maroon-Lt Grn Siltstone Soft-Fissil No Odor No Stn ? Tr Min Flor NS

ALTAMONT 5172' (- 682)

Ls Wht-Crm-Gry Microxln Micritic Barren Ixln Por Grad Fxln Tr Poor OOL Por (w/OOL in pl) No Leaching No InterOOL Por No Dissolu V Poor Develop Chalk Wht Soft Sh Blk Carb-Char-Gry (Abd)-Maroon-Lt Grn Siltstone Soft-Fissil No Odor No Stn ? Tr Min Flor NS

Ls Wht-Crm-Gry Microxln Micritic Barren Ixln Por Grad Fxln Poor Sucrosic Gran Por Fos (Brach) Chalk Wht Soft Sh Blk Carb-Char-Gry (Abd)-Maroon-Lt Grn Siltstone Soft-Fissil No Odor No Stn ? Tr Min Flor NS

Ls Tan-Crm Microxln Dns Micrite Barren Cht Wht Translu-Op Shp Vit Chalk Sh Char-Grn (w/Pyr Inclus) No Odor Scat ? Min Flor (Dull Gm) No Stn NS

Ls Tan-Crm Microxln Dns Micrite Grad Tr Poor Pin-Pt Ixln Por Barren Cht Wht Translu-Op Shp Vit Chalk Sh Char-Grn No Odor Scat ? Min Flor Dec (Dull Gm) No Stn NS

Ls Tan-Crm-Gry Microxln Dns Micrite Grad Tr Poor Pin-Pt Ixln Por Barren Cht Wht Translu-Op Shp Vi Chalk Fos (Brach) Sh Blk Carb -Char-Grn (w/Pyr Inclus) Scat ? Min Flor (Lt Grn) No Stn NS

Ls Grm-Tan Microxln Dns Micrite Grad Poor OOM Por (w/OOL in pl) Barren Poor-No Leaching (Few Vugs) Poor Develop Poor-No InterOOM/OOL Por Chalk Wht Soft Pyr Mass Sh Blk Carb-Char -Grn-Maroon Soft-Fissil No Odor Tr (3 Pcs w/VSSG) ? Scat Flor (Lt Grn) No Stn Poor VSSG

Ls Tan-Crm Microxln Dns Micrite Chalk Abd Sh Char-Gry No Odor No Flor No Stn NS

Ls Wht-Crm-Tan-Gry Microxln Dns Micrite Cht Drk Gry Op Shp Vit Chalk Calcite XI (w/Pyr Inclus) Sh Char-Gry No Odor No Flor No Stn NS

Ls Wht-Crm-Tan-Gry Microxln Dns Micrite Sh Blk Carb-Char-Gry No Odor No Flor No Stn NS

Ls Gry-Crm-Tan Microxln Dns Micrite Cht Gry (w/Wht Inclus) Op Shp Vit Chalk Char-Gry Tr Blk Carb AA No Odor No Flor No Stn NS

LABETTE SHALE 5280' (- 790)

FORT SCOTT 5283' (- 793)

Sh Blk Carb Char-Aqua Soft-Fissil Ls Crm-Tan-Gry Fxln-Microxln Dns Micrite Grad Poor Gran Sucrosic Por Cht Wht-Gry Op Shp Vit Chalk Wht Soft (Abd) No Odor ? Sil Min Flor (Chalk) No Stn NS

Sh Blk Carb Char-Gry Siltstone Soft-Fissil Ls Crm-Tan Fxln-Microxln Dns Micrite Cht Wht-Drk Gry (w/OOL in pl) Op Shp Vit Chalk Wht Soft (Abd) No Odor ? Sil Min Flor (Chalk) No Stn NS

CHEROKEE SHALE 5304' (- 814)

Cake= 1;
Chl=400;
Cal= 40;
Sol= 7.7%
LCM= 4#;
DMC=\$
4712.65
CMC=\$
30195.37

RE-ZERO TOOKE
DAQ @ 5129' LAG
DEPTH. BKGD
GAS = 12 UNITS.

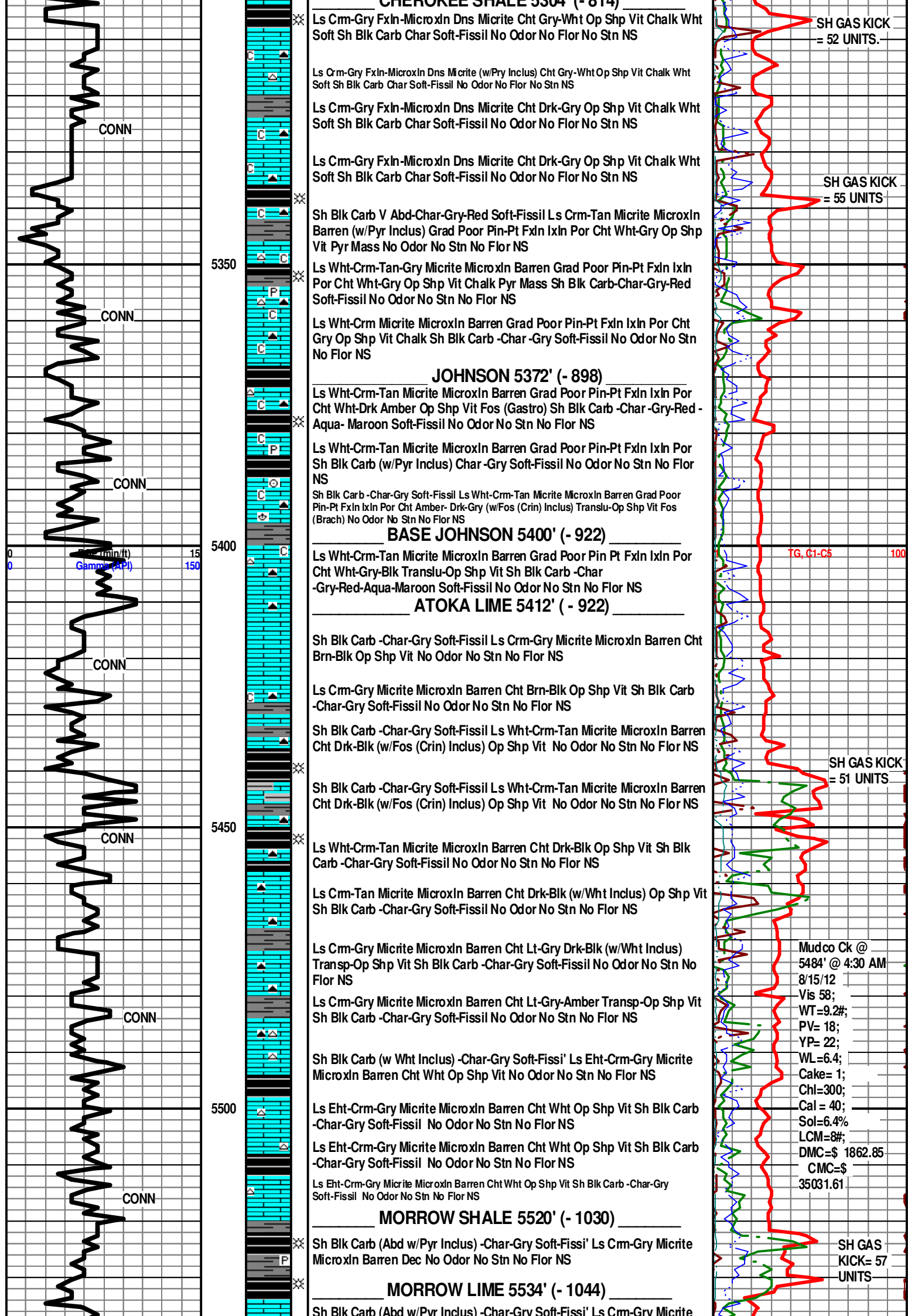
@ 5131' GAS
TEST @
EXTRACTOR=
58 UNIT GAS
KICK.

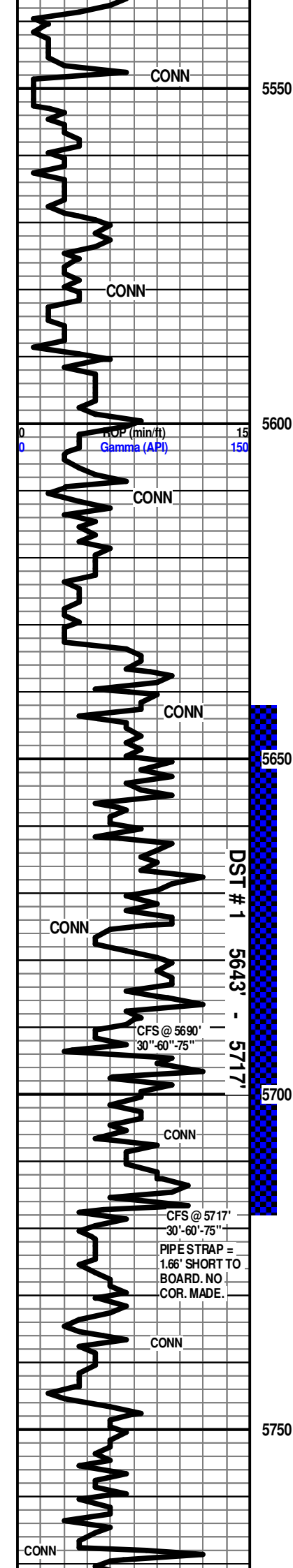
Mud co Ck
@ 5269' @
6:00 AM
8/14/12
Vis 57;
WT=9.1#;
PV= 18;
YP= 21;
WL= 7.2;
Cake= 1;
Chl=300;
Cal= 40;
Sol=5.6%
LCM=10#;
DMC=\$
2973.39
CMC=\$
33168.76

GAS KICK=23
UNITS. BKGD GAS
= 14 UNITS

@ 5270' LAG
DEPTH RE-ZERO
TOOKE DAQ.
BKGD GAS = 12
UNITS.

SH GAS KICK
= 35 UNITS.





MicroxIn Barren Dec No Odor No Stn No Flor NS

Sh Blk Carb (Abd)-Char-Gry-Drab Grn Fissil Ls Crm-Gry (w/Wht Inklus)Micrite MicroxIn Barren Dec No Odor No Stn No Flor NS

Sh Blk Carb (Abd)-Char-Gry-Drab Grn Fissil Ls Crm-Gry (w/Wht Inklus) Micrite MicroxIn Barren Dec No Odor No Stn No Flor NS

Sh Blk Carb (Abd w/Pyr Inklus)-Char-Gry-Drab Grn Fissil Pyr Mass Ls AA Tr Only No Odor No Stn No Flor NS

Sh Blk Carb (Abd w/Pyr Inklus)-Char-Gry-Drab Grn-Aqua Fissil Cht Gry Op Shp Vit Pyr Mass Ls AA Tr Only No Odor No Stn No Flor NS

Sh Blk Carb (Abd w/Pyr Inklus)-Char-Gry Siltstone-Drab Grn -Aqua Fissil Cht Gry Op Shp Vit Pyr Mass Ls AA Tr Only No Odor No Stn No Flor NS

Sh Blk Carb (Abd w/Pyr Inklus)-Char-Gry Siltstone-Drab Grn Inc- Fissil Cht Gry Op Shp Vit Ls AA (Tr Only) Qtz Ss Wht Med-Lg Igran Por Ang CaCo3 Cmt Poor Rd Poor Por (Tr Only) No Odor No Stn No Flor NS

Sh Blk Carb-Char-Gry-Drab Grn Fissil Ls AA Tr Only No Odor No Stn No Flor NS

Sh Char-Gry-Drab Grn-Blk Carb Fissil Ls AA (Tr Only) Pyr Mass No Odor No Stn No Flor NS

Sh Char-Gry-Drab Grn-Blk Carb Fissil Ls AA (Tr Only) Pyr Mass No Odor No Stn No Flor NS

KEYES 5633' (- 1143)

Sh Char-Gry-Drab Grn-Blk Carb Fissil Ls AA Inc Qtz Ss Wht FGrr Well Sort Well Rd Small Grns Poor Igran Por (w/Glacu Inklus Abd) Pyr Mass No Odor No Stn No Flor NS

Sh Char-Gry-Drab Grn-Blk Carb Fissil Ls AA Inc Qtz Ss Wht FGrr Well Sort Well Rd Small Grns Poor Igran Por (w/Glacu Inklus Abd) Pyr Mass No Odor No Stn No Flor NS

Qtz Ss Wht-Aqua VFGr Well Sort Well Rd (w/Hvy Glacu & Pyr Inklus) Poor Igran Por Barren Fos (Brach) Sh Char0Gry-Blk Carb Fissil AA No Odor No Stn No Flor NS
Ls Wht-Crm-Tan FxIn-MicroxIn Micritic Cht Wht-Op-Shp Vit Qtz Ss Wht-Aqua AA (w/Glacu Inklus) Pyr Mass Sh Ch-Gry-Aqua Fissil No odor No Stn No Flor NS

30" CFS @ 5690' Ls Wht-Crm-Tan FxIn-MicroxIn Micritic (w/Fos (Crin) Inklus) Cht Wht-Op-Shp Vit Qtz Ss Wht-Aqua AA (w/Glacu Inklus) Pyr Mass Sh Ch-Gry-Aqua Fissil No Odor No Stn ? Scat Min Flor (No Cut w/Acid) NS

60" CFS @ 5690' Ls Wht-Crm-Tan FxIn-MicroxIn Micritic (w/Fos (Crin) Inklus) Cht Wht-Op-Shp Vit Qtz Ss Wht-Aqua AA (w/Glacu Inklus) Pyr Mass Sh Ch-Gry-Aqua Fissil No Odor No Stn ? Scat Min Flor (No Cut w/Acid) NS

75" CFS @ 5690' Sh Blk Carb-Gry-Aqua Fissil Ls Wht-Crm-Tan FxIn-MicroxIn Micritic (w/Fos (Crin) Inklus) Cht Wht-Op-Shp Vit Qtz Ss Wht-Aqua AA (w/Glacu Inklus) Pyr Mass Sh Ch-Gry-Aqua Fissil No Odor No Stn ? Scat Min Flor (No Cut w/Acid) NS

MISS. SALEM (SPERGEN) 5696' (- 1206)

Dolo Tan-Crm-Gry FxIn- MicroxIn Poor Pin-Pt IxIn Sucrosic Por (w/Tr Pyr Inklus) Barren Ls MicroxIn Micrite Barren (w/? Min Flor) Chalk Sh Char -Gry- Blk Carb (Abd) Soft-Fissil Fos (Brach) No Odor No Flor No Stn NS

30" CFS @ 5717' Dolo Tan-Crm-Gry FxIn- MicroxIn Poor Pin-Pt IxIn Sucrosic Por (w/Tr Pyr Inklus) Barren Ls MicroxIn Micrite Barren (w/? Min Flor) Chalk Sh Char -Gry- Blk Carb (Abd) Soft-Fissil Fos (Brach) No Odor No Flor No Stn NS

60' & 75" CFS @ 5717' Dolo Tan-Crm-Gry FxIn- MicroxIn Poor Pin-Pt IxIn Sucrosic Por (w/Tr Pyr Inklus) Barren Ls MicroxIn Micrite Barren (w/? Min Flor) Chalk Sh Char -Gry- Blk Carb (Abd) Soft-Fissil Fos (Brach) No Odor No Flor (Dolo) No Stn NS

Dolo Tan-Crm-Gry FxIn- MicroxIn Fair Pin-Pt IxIn & Sucrosic Por Barren Ls Wht-Crm MicroxIn Micrite Barren (w/? Min Flor) Chalk Sh Char -Gry Fissil No Odor No Flor No Stn NS

Dolo Tan-Crm-Gry FxIn- MicroxIn Fair Pin-Pt IxIn & Sucrosic Por Barren Ls Wht-Crm MicroxIn Micrite Barren (w/? Min Flor) Chalk Sh Char -Gry Fissil No Odor No Flor No Stn NS

Dolo Tan-Crm-Gry FxIn- MicroxIn Fair Pin-Pt IxIn & Sucrosic Por Barren Ls Wht-Crm MicroxIn Micrite Barren (w/? Min Flor) Tr Qtz Ss AA (w/Hvy Glacu Inklus (Sluff ?) Chalk Sh Blk Carb-Char -Gry Fissil No Odor No Flor No Stn NS

MISSISSIPPIAN "WARSAW" 5745' (- 1255)

Ls Wht-Crm MicroxIn Micrite Barren (w/Pyr Inklus & ? Min Flor) Poor IxIn Por Dolo Tan-Crm-Gry FxIn- MicroxIn Fair Pin-Pt IxIn & Sucrosic Por Barren Cht Smoky Gry Op Shp Vit Chalk Sh Char -Gry-Aqua Fissil No Odor No Flor No Stn NS

Ls Wht-Crm MicroxIn Micrite Barren (w/Pyr Inklus & ? Min Flor) Poor IxIn Por Dolo Tan-Crm-Gry FxIn- MicroxIn Fair Pin-Pt IxIn & Sucrosic Por Barren Cht Smoky Gry Op Shp Vit Chalk Sh Char -Gry-Aqua Fissil No Odor No Flor No Stn NS

Ls Wht-Crm MicroxIn Micrite Barren (w/Pyr Inklus & ? Min Flor) Poor IxIn Por Dolo

Scale Change
TG, C1-C5

DST #1 5643'-5717'.

Times:

10"-30"-30"-45".

Blow: IF= Weak 1/2";

FF=No Blow".

Recovery: 30' M.

Pressures: IH=

2866#; FH =

2735#; IF =

22-25#;

FF = 26-28#

ISIP = 85#; FSIP =

53#; Temp= 142

degrees F

BKGD GAS
= 18 UNITS.

GAS KICK=
39 UNITS

SH GAS
KICK= 36
UNITS.

SH GAS
KICK = 36
UNIS.

SH GAS
KICK= 71
UNITS.

SH GAS
KICK = 114 UNITS

SH GAS KICK = 114 UNITS

GAS KICK = 72 UNITS

? TRIP Gas Kick

SH Gas Kick

Scale Change
TG, C1-C5

Mudco Ck @
5712' @ 5:00 AM

8/16/12

Vis 51;

WT=9.0#;

