



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

Well Name: LOUK TRUST "A" # 1-33
Location: NE- SW - NW of Sec. 33 - T. 29 S. - R. 30 W.
License Number: A.P.I. #15 - 069 - 20,439 - 00 - 00
Spud Date: 09/04/2013
Surface Coordinates: SPOT: 1650' FNL & 990' FWL

Region: GRAY CO., KS.
Drilling Completed: 09/13/2013

**Bottom Hole
Coordinates:**
Ground Elevation (ft): 2804' **K.B. Elevation (ft):** 2815'
Logged Interval (ft): Surface To: 5645' **Total Depth (ft):** 5650'
Formation: MISSISSIPPIAN
Type of Drilling Fluid: CHEMICAL/POLYMER/GE

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

OPERATOR

Company: McCOY PETROLEUM CORPORATION KCC LIC. NO. # 5003
Address: 8080 E. CENTRAL, STE. 300
WICHITA, KANSAS 67206-2366

GEOLOGIST

Name: DAVID P. WILLIAMS, P.G.
Company: DW ENERGY, LLC
Address: 312 N. BROADVIEW STREET
WICHITA, KANSAS 67208

CASING & DEVIATION

Spud at 12:00 pm on 09/04/13. Drilled 12-1/4" to 1822'. Ran 43 joints of new 24#, 8-5/8" casing. Tallied 1803.' Set at 1819' KB. Welded straps on shoe, bottom 3 joints and top 2 joints, tacked collars on the remainder. Centralizers (5) on joints 1-5-7-9-39. Basket on 39'. Float insert in top of 1st joint. Cemented with 450 sks MDC; 3% CC, & 1/4# FS; Plus tailed with 150 sks Class A with 2% Gel; 3% CC & 1/4# CF. Cement did not circulate. Plug down at 12:30 am on 09/06/13. Allied Cementing ticket #. Cemented 1' from Top with 150 sx. Class A thru 1' Tubing.

Deviation Survey's Taken: @ 1824' = 1/2 degree; @ 4719' = 1 degree; @ 5421 = 1/2 degree;

DSTs

NONE




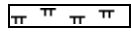
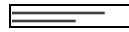
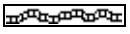




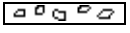







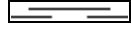

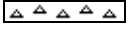


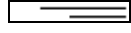
Comments

After review of all geologic samples, combined with the analysis from all electric log as examined, it was determined by all parties that this well appears to be non-commercial and should be plugged and abandoned.











































































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	 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	 Grysh	 Mudst
 Dol	 Sulphur	 Fuss	 Gyp	 Packst
 Feldspar	FOSSIL	 Gastro	 Ls	 Wackest
 Ferrpel	 Algae	 Oolite	 Mrst	
 Ferr	 Amph	 Oomold	 Sltstn	
 Glau		 Ostra	 Sltstrg	
 Gyp		 Pelec		

OTHER SYMBOLS

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

Curve Track 1

ROP (min/ft) ———
 Gamma (API) - - - - -

Depth

Geological Descriptions

Oil Shows

Geological Descriptions

TG, C1-C5

TG (Units) ———
 C1 (units) - - - - -
 C2 (units) - - - - -
 C3 (units) - - - - -
 C4 (units) - - - - -

ROP (min/ft) 5
 Gamma (API) 150

@ 2955'
 LOST
 CIRC.= 50
 Bbls

MUD
 DISPLACEMENT
 @ 2955'

39

3950

4000

4050

McCOY PETROLEUM CORPORATION

LOUK TRUST "A" # 1-33

SPOT: 1650' FNL & 990' FWL

NE- SW - NW

Sec. 33 - T. 29 S. - R. 30 W.

GRAY COUNTY, KANSAS

A.P.I. #15 - 069 -20,439 - 00 - 00

ELEVATION : 2815' K. B. ; 2804' G. L.

CONTRACTOR: STERLING DRILLING - RIG # 2

Geologist: David P. Williams, P. G.

Geologist on location @ (3775') 3:55 AM 9-8-13

STONE CORRAL ANHYDRITE SAMPLE TOP = 1771' (+1044).

STONE CORRAL ANAYDRITE SAMPLE BASE = 1787' (+1028).

Deviation Survey's Taken: @ 1824' = 1/2 degree; @ 4719' = 1 degree; @ 5421' = 1/2 degree.

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

Begin 31' Sample Examination @ 4000'.

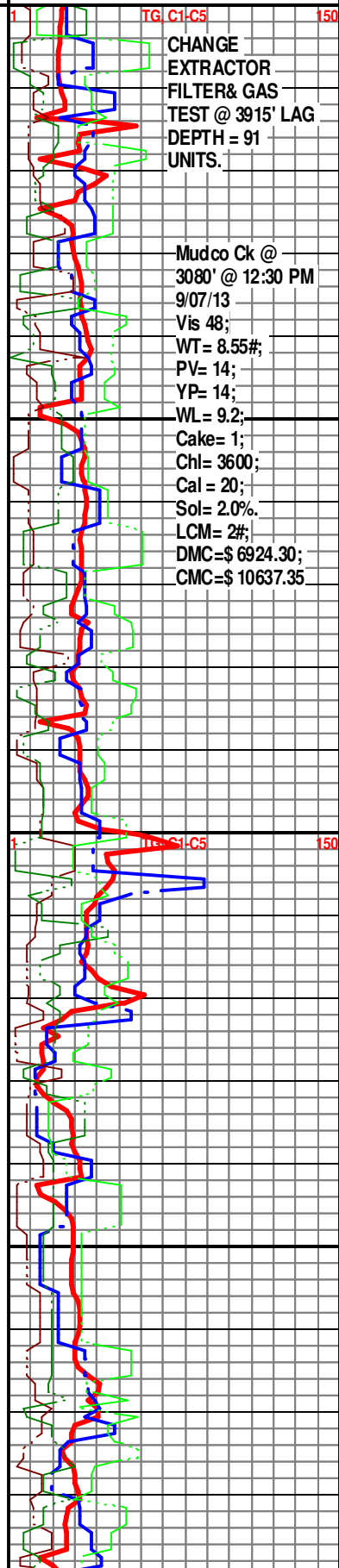
Ls Wht-Crm-Gry FxIn Micrite Barren Grad Poor Pin-Pt IxIn Por Chalk Abd Sh
 Char-Gry Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Gry FxIn Micrite Barren Grad Poor Pin-Pt IxIn Por Chalk Abd Sh
 Char-Gry Soft No Odor No Stn No Flor NS

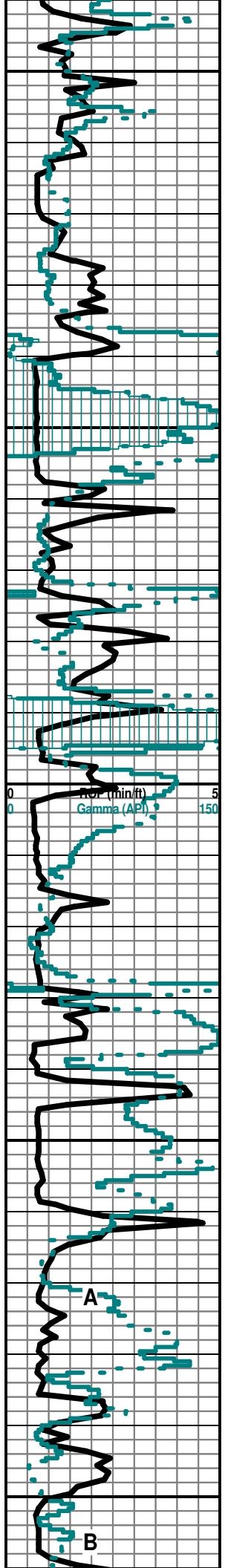
Ls Wht-Crm-Gry FxIn Micrite Barren Grad Poor Pin-Pt IxIn Por Chalk Abd Sh
 Char-Gry Soft No Odor No Stn No Flor NS

CHANGE
 EXTRACTOR
 FILTER& GAS
 TEST @ 3915' LAG
 DEPTH = 91
 UNITS.

Mudco Ck @
 3080' @ 12:30 PM
 9/07/13
 Vis 48;
 WT= 8.55#;
 PV= 14;
 YP= 14;
 WL= 9.2;
 Cake= 1;
 Chl= 3600;
 Cal= 20;
 Sol= 2.0%
 LCM= 2#;
 DMC=\$ 6924.30;
 CMC=\$ 10637.35



4100
4150
4200
4250
4300



Ls Wht-Crm-Gry Fxln Micrite Barren Grad Poor Pin-Pt Ixln Por Chalk Abd Sh
Char-Gry Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Gry Fxln Micrite Barren Grad Poor Pin-Pt Ixln Por Chalk Abd Sh
Char-Gry-Blk Carb Fissil-Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Gry Fxln Micrite Barren Grad Poor Pin-Pt Ixln Por Chalk Dec Sh
Char-Gry-Blk Carb Tr AA Fissil Soft No Odor No Stn No Flor NS

Sh Blk Carb-Char-Gry Fissil Ls Wht-Crm-Gry Fxln Dns Micrite Grad Pin-Pt
Ixln Por Chalk Tr No Odor No Stn No Flor NS

Sh Char-Gry/Grn (w/Pyr Includ)-Blk Carb Fissil Ls Wht-Crm-Gry Fxln Dns
Micrite Grad Pin-Pt Ixln Por Chalk No Odor No Stn No Flor NS

Ls Wht-Crm-Gry Fxln Micrite Barren Grad Poor Pin-Pt Ixln Por Chalk Dec Sh
Char-Gry-Blk Carb Tr AA Fissil Soft No Odor No Stn No Flor NS

Mudco Ck @
4143' @ 12:45 PM
9/08/13
Vis 55;
WT= 9.0#;
PV= 17;
YP= 18;
WL= 8.4;
Cake= 1;
Chl= 4100;
Cal= 20;
Sol= 4.6%
LCM= 2#;
DMC=\$ 4297.15;
CMC=\$ 14934.50

SH GAS KICK =
122 UNITS

SH GAS KICK =
137 UNITS

TG C1-C5 150

HEEBNER 4188' (- 1373)

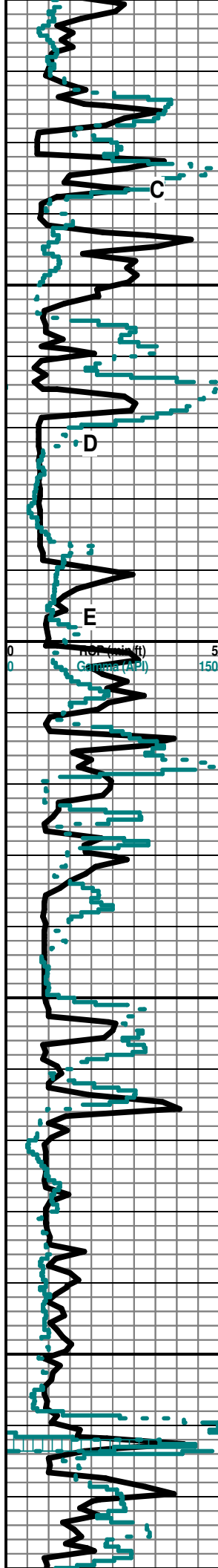
TORONTO 4206' (- 1391)

DOUGLAS 4229' (- 1414)

LANSING 4260' (- 1445)

A

B



4350

4400

4450

4500

Ls Wht-Crm FxIn Micrite Barren Grad Fair IxIn Por (w/? Lg Otz Ss Inclus)
Chalk Sh Char-Gry-Aqua Fissil Soft No Odor No Stn No Flor NS

Ls Wht-Crm-Gry FxIn Micrite Barren Grad Fair-Med Pin-Pt IxIn Por Chalk Sh
Char-Gry-Olive-Maroon Abd Fissil Soft No Odor No Stn No Flor NS

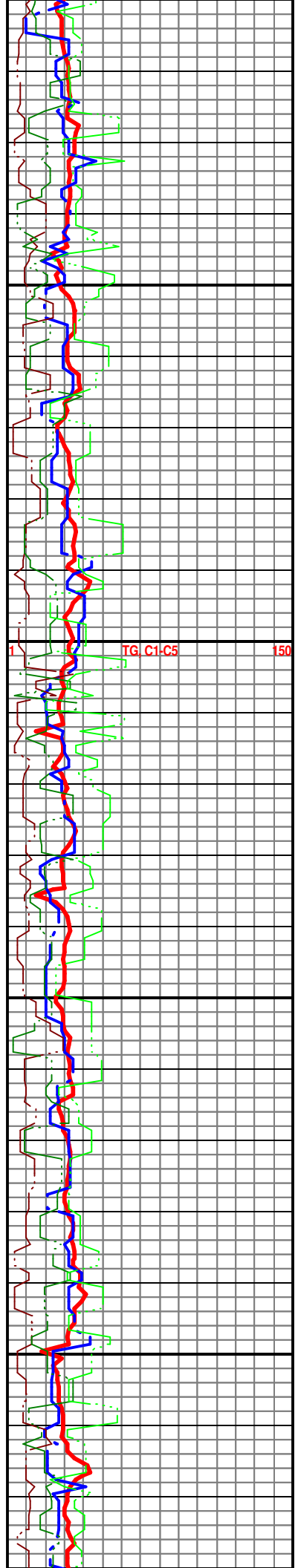
Ls Crm-Tan-Gry Fair-Med IxIn Por Barren Grad Tr Poor Vug IxIn Por Barren
Chalky Pyr Mass Fos (Crin) Sh Char-Gry-Blk Carb Fissil No Odor No Flor No
Stn NS

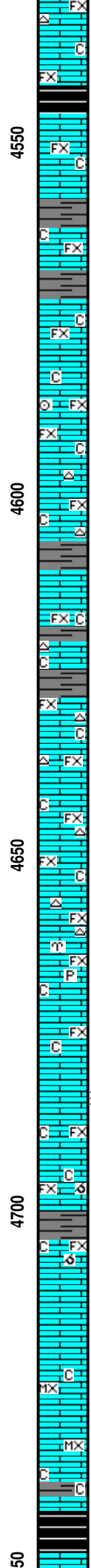
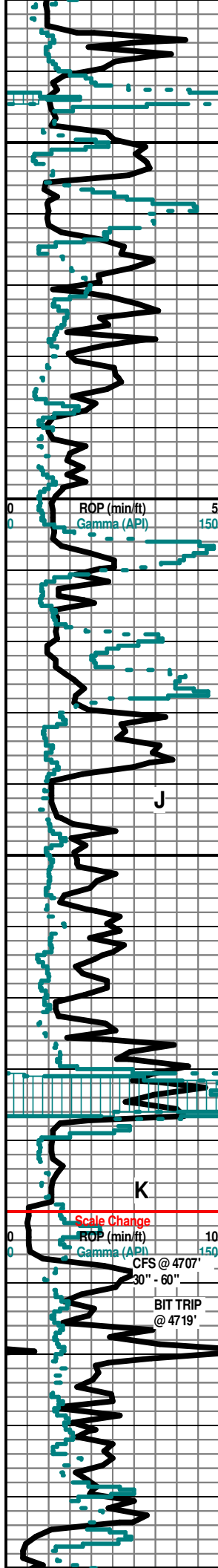
Ls Wht-Crm-Tan-Gry Fair-Med IxIn Por Barren Chalk Abd Pyr Mass Sh
Char-Gry-Blk Carb Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Tan-Gry Fair-Med IxIn Por Barren Chalk Abd Pyr Cht Wht
Transl-Op Shp Vit Mass Sh Char-Gry-Blk Carb Fissil No Odor No Flor No Stn
NS

Ls Wht-Crm-Tan Fair-Med-Lg XIn Por Barren Pyr Mass Sh Char- Gry Fissil
No Odor No Flor No Stn NS

Ls Crm-Tan FxIn Micritic Grad Fair-Med Pin-Pt IxIn Por Chalk Cht Wht Op
Shp Vit Chalky Sh Blk Carb-Char-Gry- Fissil-Soft No Odor No Flor No Stn
NS





Ls Crm-Tan FxIn Micritic Grad Fair-Pin-Pt IxIn Por Barren Chalk Cht Wht-Gry
Op Shp Vit Sh Char-Gry-Blk Carb Tr Fissil No Odor No Flor No Stn NS

Ls Crm-Tan FxIn Micritic Grad Fair-Pin-Pt IxIn Por Chalky Cht Wht-Gry
(w/Fos (Crin) Inklus) Op Shp Vit Sh Char-Gry-Blk Carb Fissil No Odor No
Flor No Stn NS

Begin 10' Sample Examination @ 4650'.

Ls Crm-Tan FxIn Micritic Grad Fair-Pin-Pt IxIn Por Chalk Cht Wht Op Shp Vit
Sh Char-Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Tan FxIn Micritic Grad Poor OOM Por (w/OOL in pl) Poor-No Dissolu
Poor Develop Poor Leaching Chalk Abd Cht Wht Op Shp Vit Sh Gry-Grn
Fissil No Odor No Flor No Stn NS

Ls Crm-Tan FxIn Dns Micritic Barren Chalk Abd Cht Tan Op Shp Vit Fos
(Fen. Bry) Pyr Mass Sh Gry-Grn Fissil No Odor No Flor No Stn NS

Ls Crm-Tan FxIn Dns Micritic Barren Chalky Cht Wht-Tan Op Shp Vit Sh
Gry-Grn Fissil No Odor No Flor No Stn NS

STARK SHALE 4680' (- 1868)

KANSAS CITY "SWOPE" (K) 4687' (-1872)

30" CFS @ 4707' Sh Blk Carb Fissil w SG Ls AA Chalky Faint Odor No Stn
No Flor SG

60" CFS @ 4707' Ls Wht-Crm Med OOM Por Fair-Med Dissolu Fair Leaching
(10% of Spl) Chalk Abd ? Faint Odor Scatt Flor Stn (15% of Spl) ? SSG

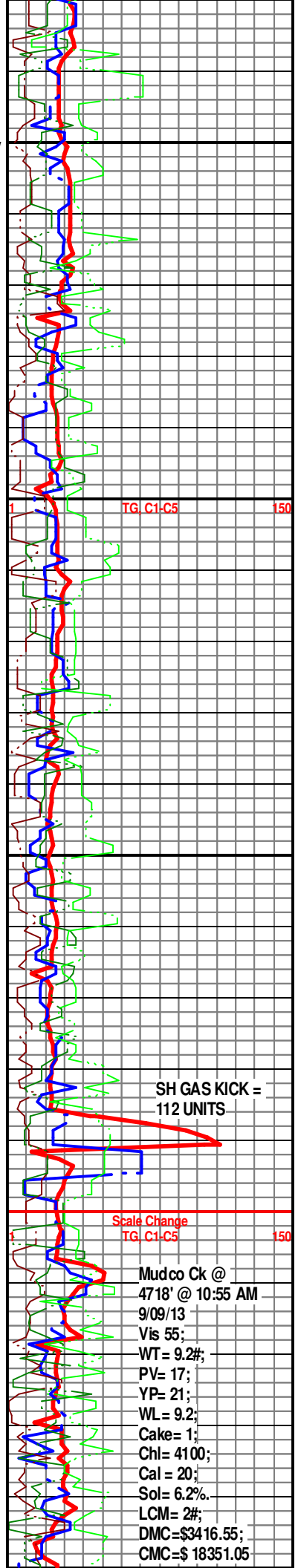
No Sample Trip Debris

Ls Crm-Tan MicroxIn Dns Micritic Barren Chalky Sh Gry-Maroon Fissil No
Odor No Flor No Stn NS

Ls Crm-Tan FxIn Dns Micritic Barren Chalky Sh Gry-Maroon Fissil No Odor
No Flor No Stn NS

HUSHPUCKNEY SHALE 4742' (- 1927)

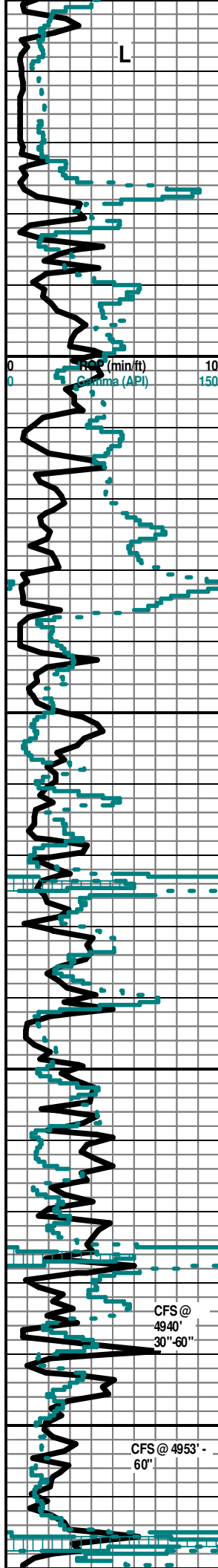
KANSAS CITY "HERTHA" (L) 4746' (- 1931)



SH GAS KICK =
112 UNITS

Scale Change
TG C1-C5

Mudco Ck @
4718' @ 10:55 AM
9/09/13
Vis 55;
WT = 9.2#;
PV= 17;
YP= 21;
WL = 9.2;
Cake= 1;
Chl= 4100;
Sol = 20;
Cal = 6.2%
LCM= 2#;
DMC=\$3416.55;
CMC=\$ 18351.05



Ls Wht-Crm-Gry Fxln Dns Micritic Barren Cht Gry Op Shp Vit Chalky Sh Blk Carb-Gry-Maroon Fissil No Odor No Flor No Stn NS

Sh Char-Gry (w/Pyr Inclus)-Maroon Fissil Ls Wht-Crm-Gry Fxln Dns Micritic Barren Cht Gry Op Shp Vit Chalky No Odor No Flor No Stn NS

Ls Crm-Tan Fxln Micritic Grad Poor-Fair OOM Por (w/OOL in pl) Poor Dissolu Poor Develop Poor Leaching Chalk Sh Char-Gry Fissil No Odor No Flor No Stn NS

KANSAS CITY "HERTHA POR" 4778' (-1962)

Ls Crm-Tan Fxln Micritic Grad Poor-Fair OOM Por (w/OOL in pl) Poor Dissolu Poor Develop Poor Leaching Chalk Sh Char-Grn/Gry (w/Pyr Inclus)-Maroon Fissil No Odor No Flor No Stn NS

Ls Crm-Tan Fxln Micritic Grad Poor-Fair OOM Por (w/OOL in pl) Poor Dissolu Poor Develop Poor Leaching Chalk Sh Char-Grn/Gry (w/Pyr Inclus)-Maroon Fissil No Odor No Flor No Stn NS

Ls Crm-Tan Fxln Micritic Grad Poor-Fair OOM Por (w/OOL in pl) Poor Dissolu Poor Develop Poor Leaching Chalk Sh Char-Grn/Gry (w/Pyr Inclus)-Maroon-Red Fissil No Odor No Flor No Stn NS

Ls Crm-Tan Fxln Micritic Grad Poor OOM Por Poor Dissolu Poor Develop Poor Leaching Chalk Pyr Mass Sh Char-Grn/Gry- Maroon- Red Fissil No Odor No Flor No Stn NS

Ls Crm-Tan Fxln Micritic Grad Poor OOM Por Poor Dissolu Poor Develop Poor Leaching Chalk Pyr Mass Sh Char-Grn/Gry-Maroon-Red Fissil No Odor No Flor No Stn NS

MARMATON 4836' (- 2021)

Ls Wht-Crm MicroxIn-Fxln Poor Ixln Por Micritic Dns Barren Chalk Wht Soft Sh Char-Gry-Grn Fissil No Odor No Flor No Stn NS

Ls Wht-Crm MicroxIn-Fxln Poor Ixln Por Micritic Dns Barren Chalk Wht Soft Sh Char-Gry-Grn Fissil No Odor No Flor No Stn NS

Ls Crm-Wht-Gry Fxln Poor Ixln Por Micritic (w/Pyr Inclus) Dns Barren Grad Poor OOM Por Poor InterOOM Por Chalk Sh Char-Gry -Maroon-Aqua Soft-Fissil No Odor No Flor No Stn NS

MARMATON "B" 4876' (- 2059)

Ls Crm-Wht-Gry Fxln Poor Ixln Por Micritic (w/Pyr Inclus) Dns Barren Grad Poor OOM Por Poor InterOOM Por Chalk Sh Char-Gry -Maroon-Aqua Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Wht-Gry Fxln Poor Ixln Por Micritic (w/Pyr Inclus) Dns Barren Chalk Sh Char-Gry -Maroon-Aqua Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Wht-Gry Fxln Poor Ixln Por Micritic (w/Pyr Inclus) Dns Barren Grad Poor OOM Por Poor InterOOM Por Chalk Sh Char-Gry -Maroon-Aqua Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Wht-Gry Fxln Poor Ixln Por Micritic (w/Pyr Inclus) Dns Barren Grad Poor OOM Por Poor InterOOM Por Chalk Sh Char-Gry -Maroon-Aqua Soft-Fissil No Odor No Flor No Stn NS

Ls Crm-Tan-Wht Fxln Poor Ixln Por Micritic Dns Barren Chalk Wht Soft Sh Char-Gry-Blk Carb Fissil Faint Odor ? Sli Flor (5 Pcs) No Stn NS

PAWNEE 4928' (- 2113)

30 CFS @ 4940' Sh Blk Carb-Gry Fissil Ls Crm-Tan-Wht Fxln Poor Ixln Por Micritic Dns Barren Grad Poor OOM Por w/OOL (Med-Lg Ooids) in pl Poor-No Dissolu Poor-No Leaching Chalk Fos (Pyr Coral) Sh Gry Fissil ? Sli Odor Sli Flor (5% of Tray) No Stn NS

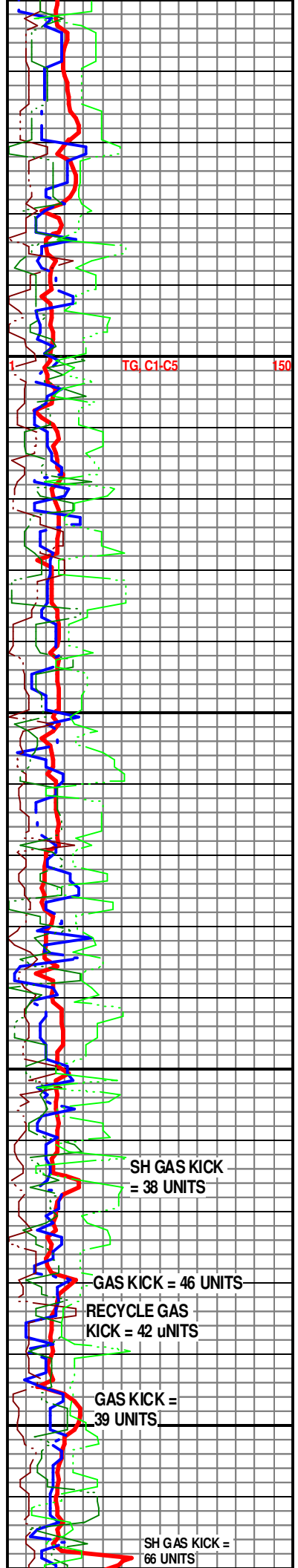
60" CFS @ 4940' Ls Crm-Tan-Wht Fxln Poor Ixln Por Micritic Dns Barren Chalk Pyr Mass Sh Char-Gry-Blk Carb Fissil No Odor ? Sli Flor (2 Pcs) No Stn NS

60" CFS @ 4953' Ls Crm-Tan-Wht Fxln Poor Ixln Por Micritic Dns Barren Grad Fxln Poor Pin-Pt Ixln Por Chalk Abd Sh Char-Gry Fissil No Odor ? Sli Flor (5 Pcs) No Stn NS

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

FORT SCOTT 4968' (- 2153)

Sh Blk Carb-Gry-Gry Fissil Abd Ls Crm-Tan-Maroon-Micritic Dns Mass No Odor No Flor No Stn NS



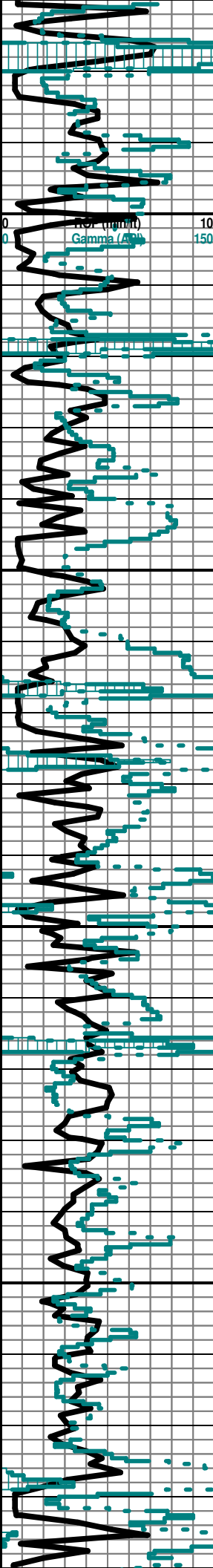
SH GAS KICK = 38 UNITS

GAS KICK = 46 UNITS

RECYCLE GAS KICK = 42 UNITS

GAS KICK = 39 UNITS

SH GAS KICK = 66 UNITS



5000
5050
5100
5150



Sh Blk Carb-Gry/Grn Fissil Abd Ls Crm-Tan MicroIn micritic Pyr Mass No Odor No Flor No Stn NS

CHEROKEE SHALE 4976' (- 2161)

Sh Blk Carb (w/GSG)-Gry Fissil Ls Wht-Crm-Tan MicroIn-FxIn Poor IxIn Por Micritic Dns Barren Chalk Wht Soft No Odor No Flor No Stn NS

Ls Crm-Wht FxIn Poor IxIn Por Micritic Dns Barren Chalk Wht Soft Cht Amber Op Shp Vit Sh Char-Gry Fissil No Odor No Flor No Stn NS

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

Ls Crm-Wht FxIn Poor IxIn Por Micritic Dns Barren Chalk Wht Soft Cht Amber Op Shp Vit Sh Char-Gry Fissil No Odor No Flor No Stn NS

SECOND CHEROKEE SHALE 5016' (- 2201)

Ls Crm-Wht FxIn Poor IxIn Por Micritic Dns Barren Chalk Wht Soft Cht Amber-Gry Op Shp Vit Sh Blk Carb-Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Wht-Tan FxIn Poor IxIn Por Micritic Dns Barren Chalk Wht Soft Cht Amber Op Shp Vit Sh Blk Carb-Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Wht-Tan FxIn Poor IxIn Por Micritic Dns Barren Chalk Wht Soft Cht Amber Op Shp Vit Sh Blk Carb-Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Wht-Tan FxIn Poor IxIn Por Micritic Dns Barren Chalk Wht Soft Cht Amber Op Shp Vit Sh Blk Carb-Gry Fissil No Odor No Flor No Stn NS

THIRD CHEROKEE SHALE 5060' (- 2245)

Ls Crm-Wht-Tan FxIn Poor IxIn Por Micritic Dns Barren Chalk Wht Soft Cht Amber Op Shp Vit Sh Blk Carb-Gry Fissil No Odor No Flor No Stn NS

Sh Blk Carb (w/GSG)-Gry Fissil Ls Wht-Crm-Tan MicroIn-FxIn Poor IxIn Por Micritic Dns Barren Chalk Wht Soft No Odor No Flor No Stn NS

Ls Crm-Wht-Tan FxIn Poor IxIn Por Micritic Dns Barren Chalk Wht Soft Sh Blk Carb-Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Wht-Tan FxIn Poor IxIn Por Micritic Dns Barren Chalk Wht Soft Cht-Amber Op Shp Vit Sh Blk Carb-Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Wht-Tan FxIn Poor IxIn Por Micritic Dns Barren Chalk Wht Soft Cht-Amber Op Shp Vit Sh Blk Carb-Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Wht-Tan FxIn Poor IxIn Por Micritic Dns Barren Chalk Wht Soft Cht-Wht-Amber Op Shp Vit Sh Blk Carb-Gry Fissil No Odor No Flor No Stn NS

Ls Crm-Wht-Tan FxIn Poor IxIn Por Micritic Dns Barren Chalk Wht Soft Cht-Wht Amber-Gry Op Shp Vit Sh Char-Gry-Tr Blk Carb Fissil No Odor No Flor No Stn NS

Ls Crm-Wht-Tan FxIn Poor IxIn Por Micritic Dns Barren Chalk Wht Soft Cht-Wht Amber-Gry Op Shp Vit Sh Char-Gry-Tr Blk Carb Fissil No Odor No Flor No Stn NS

Ls Crm-Tan FxIn Poor IxIn Por Micritic Dns Barren Chalk Wht Soft Cht Amber-Gry Op Shp Vit Fos (Crin) Sh Char-Gry-Tr Blk Carb Fissil No Odor No Flor No Stn NS

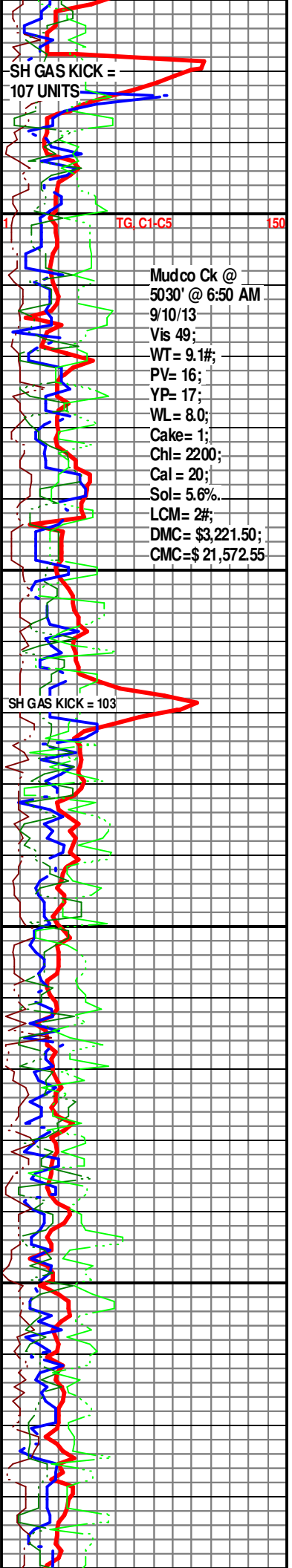
Ls Crm-Wht-Tan FxIn Poor IxIn Por Micritic Dns Barren Chalk Wht Soft Cht Amber-Gry Op Shp Vit Sh Char-Gry Abd Fissil No Odor No Flor No Stn NS

Ls Crm-Wht-Tan FxIn Poor IxIn Por Micritic Dns Barren Chalk Wht Soft Cht Amber-Gry Op Shp Vit Sh Char-Gry Abd Fissil No Odor No Flor No Stn NS

Ls Crm-Wht-Tan FxIn Poor IxIn Por Micritic Dns Barren Chalk Wht Soft Cht Amber-Gry Op Shp Vit Sh Char-Gry Abd Fissil No Odor No Flor No Stn NS

ATOKA SHALE 5176' (- 2361)

Sh Blk Carb-Gry Fissil Ls Crm-Wht-Tan FxIn Poor IxIn Por Micritic Dns Barren Chalk Wht Soft Cht-Amber Op Shp Vit No Odor No Flor No Stn NS

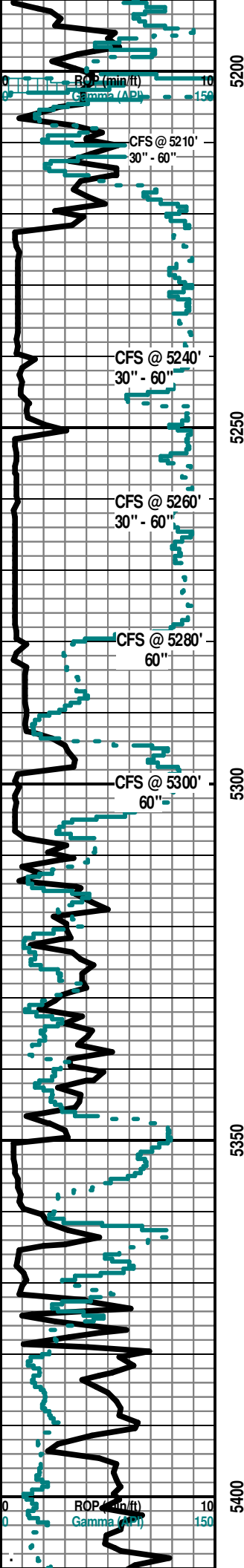


SH GAS KICK = 107 UNITS

TG C1-C5 150

Mudco Ck @
5030' @ 6:50 AM
9/10/13
Vis 49;
WT = 9.1#;
PV = 16;
YP = 17;
WL = 8.0;
Cake = 1;
Chl = 2200;
Cal = 20;
Sol = 5.6%
LCM = 2#;
DMC = \$3,221.50;
CMC = \$21,572.55

SH GAS KICK = 103



30" CFS @ 5210' Sh Blk Carb-Grn-Gry Fissil Ls Crm-Wht-Ian Fxn Por Ixn Por Micritic Dns Barren Chalk Wht Soft Cht Amber Op Shp Vit No Odor No Flor No Stn NS

MORROW SHALE 5200' (- 2385)

60" CFS @ 5210' Sh Blk Carb-Char Gry-Drab Grn Fissil V Abd Ls Crm-Wht-Tan Fxn Poor Ixn Por Micritic Dns Barren Grad Poor Pin-Pt Ixn Por Chalk Wht Soft Cht Amber Op Shp Vit No Odor No Flor No Stn NS

30" CFS @ 5240' Sh Blk Carb-Gry Fissil Grad Drk Gry Siltstn (w/Pyr Inklus) Ls Crm-Wht-Tan Fxn Poor Ixn Por Micritic Dns Barren Chalk Wht Soft Cht Drk Blk (w/Wht Inklus) No Stn NS

60" CFS @ 5240' Sh Blk Carb-Gry (w/Interbeded Pyr Layers & Carb Inklus)-Drab Grn Fissil Grad Drk Gry Siltstn (w/Pyr Inklus) Ls Crm-Wht-Tan Fxn Poor Ixn Por Micritic Dns Barren Tr Chalk Cht Drk Blk (w/Wht Inklus) ? Faint Odor No Flor No Stn NS

30" CFS @ 5260' Sh AA Ls AA Qtz Ss FGn Poor-Sort Poor Igran Por (10 pcs in Tray) Hvy CaCO3 Cmt Matrix (w/Glacu & Pyr Inklus) Barren Pyr Mass No Odor No Stn No Flor NS

60" CFS @ 5260' Sh Blk Carb-Char-Gry-Drab Grn Fissil Qtz Ss FGn Poor-Sort Poor Igran Por (10 pcs in Tray) Hvy CaCO3 Cmt Matrix (w/Glacu & Pyr Inklus) Barren Pyr Mass No Odor No Stn No Flor NS

30" CFS @ 5280' Sh AA Ls AA (Tr Only) Qtz Ss FGn Poor-Sort Poor Igran Por (5 pcs in Tray) Hvy CaCO3 Cmt Matrix (w/Glacu & Pyr Inklus) Barren (Tr Only) Pyr Mass No Odor No Stn No Flor NS

60" CFS @ 5280' Sh Blk Carb-Char-Gry-Drab Grn Fissil Qtz Ss FGn Poor-Sort Poor Igran Por (10 pcs in Tray) Hvy CaCO3 Cmt Matrix (w/Glacu & Pyr Inklus) Barren Pyr Mass No Odor No Stn No Flor NS

MISSISSIPPIAN CHESTER 5280' (- 2465)

60" CFS @ 5300' Sh Blk Carb-Char-Gry-Drab Grn Fissil Ls Crm-Wht Dns MicroIxn Micrite Pyr Mass No Odor No Stn No Flor NS

Sh Blk Carb-Char-Gry-Drab Grn Fissil Ls Crm-Wht Dns MicroIxn Micrite Pyr Mass No Odor No Stn No Flor NS

Ls Wht-Fxn Dns Micrite Grad Fair Ixn Por Chalk Pyr Mass Sh Char- Gry-Drab Grn- Blk Carb Fissil No Odor No Flor NS

Ls Wht-Fxn Dns Micrite Grad Fair Ixn Por Chalk Pyr Mass Sh Char- Gry-Drab Grn- Blk Carb Fissil No Odor No Flor NS

Ls Wht-Fxn Dns Micrite Grad Fair Ixn Por Chalk Pyr Mass Sh Char- Gry-Drab Grn- Blk Carb Fissil No Odor No Flor NS

Ls Wht-Fxn Dns Micrite Grad Poor-Fair Ixn Por Chalk Fos (Crin) Sh Char- Gry- Drab Grn- Blk Carb Fissil No Odor No Flor NS

Sh Blk Carb-Char-Gry-Drab Grn (w/Pyr Inklus)-Aqua-Maroon Fissil Ls Wht-Tan MicroIxn-Fxn Dns Micrite Grad Fair Ixn Por AA Pyr Mass Chalk No Odor No Stn No Flor NS

Sh Blk Carb-Char-Gry-Drab Grn (w/Pyr Inklus)-Aqua-Maroon Fissil Ls Wht-Tan MicroIxn-Fxn Dns Micrite Grad Fair Ixn Por AA Pyr Mass Chalk No Odor No Stn No Flor NS

? CHESTER "SAND" 5372' (- 2557)

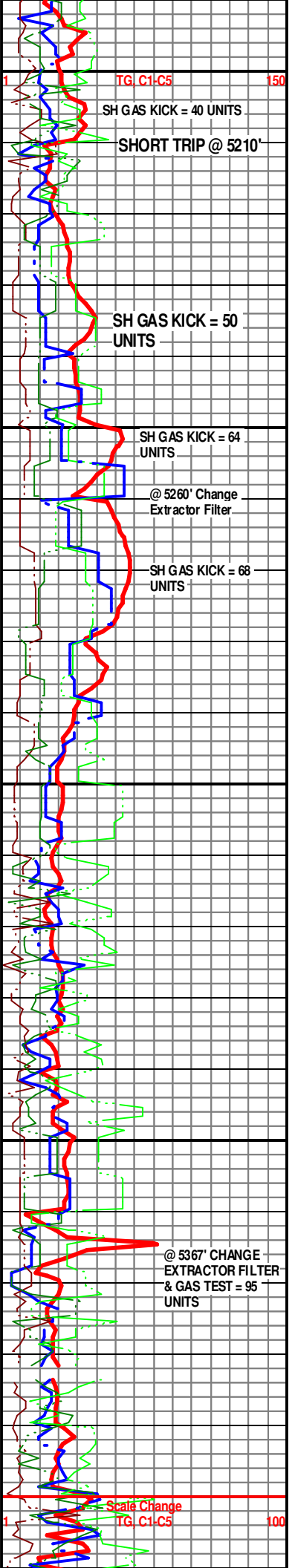
Qtz Ss Wht-Lt Brn Med Ang Grains Poor-Fair Igran Por Friable Gillsonitic "Dead Oil" Residue Ls Crm-Tan-Gry Fxn Dns Micrite Grad Ls Wht Fxn Poor OOL Por (w/Small OOL in pl) "Sandy OOL Ls" Barren (Tr Only) Pyr Mass Chalky Sh Char-Blk Carb- Gry- Drab Grn Fissil No Odor No Stn No Flor NS

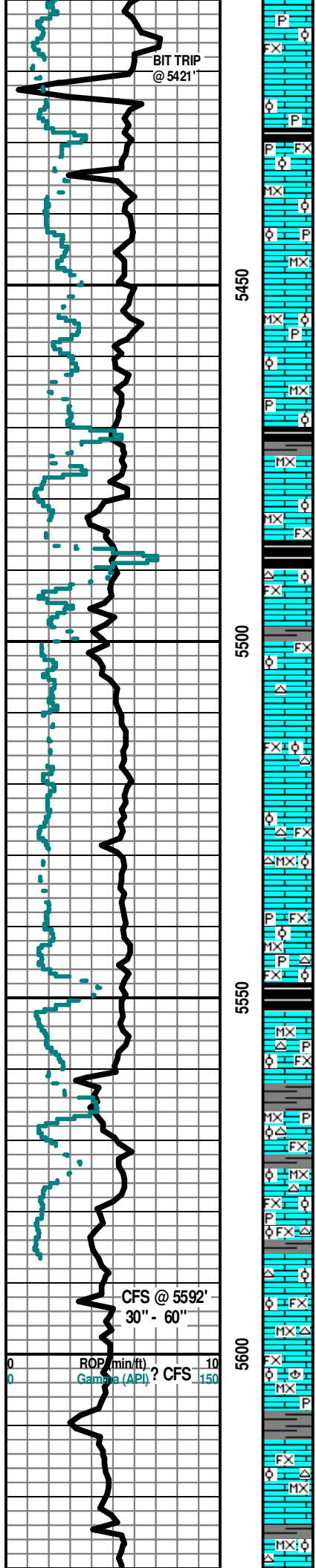
Qtz Ss Wht-Lt Brn Med Ang Grains Poor-Fair Igran Por Friable Gillsonitic "Dead Oil" Residue Ls Crm-Tan-Gry Fxn Dns Micrite Grad Ls Wht Fxn Poor OOL Por (w/Small OOL in pl) "Sandy OOL Ls" Barren (Tr Only) Pyr Mass Chalky Sh Char-Blk Carb- Gry- Drab Grn Fissil No Odor No Stn No Flor NS

MISSISSIPPIAN "Ste. GEN" 5394' (- 2479)

Ls Wht-Brn Fxn Poor-Fair OOL Por (w/Small Ooids in pl) "Sandy OOL Ls" Qtz Ss Wht-Brn Fair-Med Igran Por Friable (w/Dead Brn Stn) AA Chalky Sh Char-Blk Carb-Gry-Grn Fissil No Odor No Flor ? "Dead Stn" NS

Ls Wht-Brn Fxn Poor-Fair OOL Por (w/Small Ooids in pl) "Sandy OOL Ls" Qtz Ss Wht-Brn Fair-Med Igran Por Friable (w/Dead Brn Stn) AA Chalky Sh Char-Blk Carb-Gry-Grn Fissil No Odor No Flor ? "Dead Stn" NS





Ls Wht-Crm-Tan FxIn Poor-Fair OOL Por (w/V Small OOids in pl) "Sandy OOL Ls" Chalky Pyr Mass Sh Char-Blk Carb Abd-Drk Gry/Grn-Maroon Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Gry FxIn-MicroxIn Poor-Fair OOL Por (w/V Small OOids in pl) "Sandy OOL Ls" Grad Dns Micrite No Vis Por Chalky Pyr Mass Sh Char-Blk Carb Abd-Drk Gry/Grn-Maroon Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Gry FxIn-MicroxIn Poor-Fair OOL Por (w/V Small OOL in pl) "Sandy OOids Ls" Grad Dns Micrite No Vis Por Chalky Pyr Mass Sh Char-Blk Carb Abd Fissil No Odor No Stn No Flor NS

Ls Wht-Lt Gry MicroxIn Poor IxIn Por Dns Micrite Grad Poor OOL Por (w/V Small OOids in pl) "Sandy OOL Ls" Chalky Pyr Mass Sh Char-Blk Carb Dec Fissil No Odor No Stn No Flor NS

Ls Wht-Lt Gry MicroxIn Poor IxIn Por Dns Micrite Grad Poor OOL Por (w/V Small OOids in pl) "Sandy OOL Ls" Chalky Pyr Mass Sh Char-Blk Carb-Char-Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Lt Gry MicroxIn Poor IxIn Por Dns Micrite Grad Poor OOL Por (w/V Small OOids in pl) "Sandy OOL Ls" Chalky Pyr Mass Sh Char-Blk Carb-Char-Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Lt Gry MicroxIn Poor IxIn Por Dns Micrite Grad Poor OOL Por (w/Inc V Small- Small OOids in pl) "Sandy OOL Ls" Sh Char-Blk Carb-Char-Gry-Aqua Tr Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Lt Gry MicroxIn-FxIn Poor IxIn Por Dns Micrite Grad Poor-Fair OOL Por (w/Inc Small-Med OOids in pl) "Sandy OOL Ls"- Sh Char-Blk Carb-Char-Gry-Aqua-Maroon Tr Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Lt Gry FxIn Poor Inc IxIn Por Dns Micrite Grad Fair OOL Por (w/Med OOids in pl) "Sandy OOL Ls"- Cht Wht-Lt Tan Translu-Op Shp Vit Sh Char-Blk Carb-Lt Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Lt Gry FxIn Poor Inc IxIn Por Dns Micrite Grad Fair OOL Por (w/Med OOids in pl) "Sandy OOL Ls"- Cht Wht-Lt Tan Translu-Op Shp Vit Sh Char-Blk Carb-Lt Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Lt Gry FxIn Poor Inc IxIn Por Dns Micrite Grad Fair OOL Por (w/Med OOids in pl) Friable "Sandy OOL Ls"- Cht Wht-Lt Tan-Peach Translu-Op Shp Vit Sh Char-Blk Carb-Lt Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Lt Gry FxIn Poor IxIn Por Dns Micrite Grad Fair OOL Por (w/Med-Lg OOids in pl) Friable "Sandy OOL Ls"- Cht Wht-Lt Gry-Peach Translu-Op Shp Vit Sh Char-Blk Carb-Lt Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Lt Gry MicroxIn-FxIn Poor IxIn Por Dns Micrite Grad Poor OOL Por (w/V Small OOids in pl w/ Pyr Includ) Friable "Sandy OOL Ls"- Cht Wht-Lt Gry-Peach Translu-Op Shp Vit Sh Char-Blk Carb-Lt Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Lt Gry MicroxIn-FxIn Poor IxIn Por Dns Micrite Grad Poor OOL Por (w/V Small OOids in pl w/ Pyr Includ) Friable "Sandy OOL Ls"- Cht Wht-Lt Gry-Peach Translu-Op Shp Vit Sh Char-Blk Carb-Lt Gry Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Lt Gry MicroxIn-FxIn Poor IxIn Por Dns Micrite Grad Poor OOL Por (w/V Small OOids in pl w/ Pyr Includ) Friable "Sandy OOL Ls"- Cht Wht-Lt Gry-Peach Translu-Op Shp Vit Pyr Mass Sh Char-Blk Carb-Lt Gry Fissil No Odor No Stn No Flor NS

30" CFS @ 5592' Ls Crm MicroxIn-FxIn Poor-Fair IxIn Por Dns Micrite Grad Poor-Fair OOL Por (w/Small-Med OOids in pl w/ Pyr Includ) Friable "Sandy OOL Ls"- Cht Wht-Lt Gry-Peach Translu-Op Shp Vit Sh Char-Blk Carb-Lt Gry Fissil No Odor No Stn No Flor NS

MISS. "ST. LOUIS" POROSITY 5578' (- 2763)

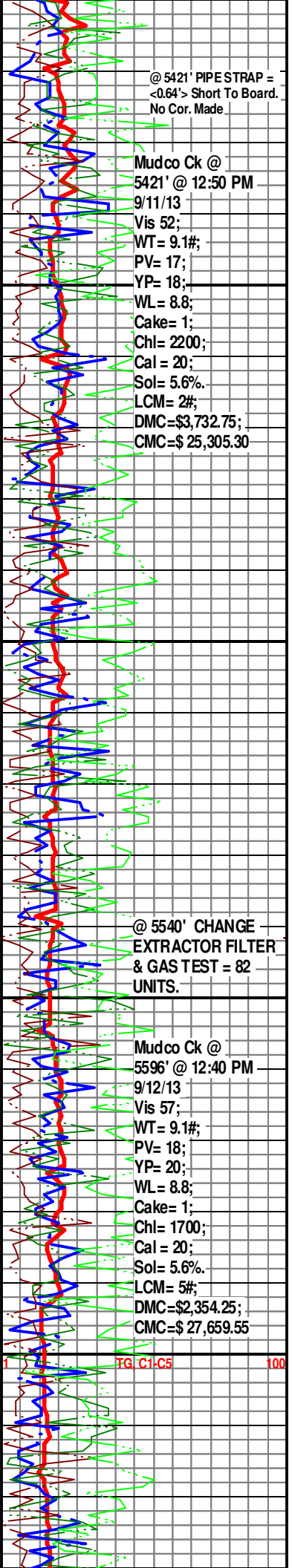
60" CFS @ 5592' Ls Crm MicroxIn-FxIn Poor-Fair IxIn Por Dns Micrite Grad Poor-Fair OOL Por (w/Small-Med OOids in pl) Friable "Sandy OOL Ls"- Cht Wht-Lt Gry-Peach Translu-Op Shp Vit Pyr Mass Sh Char-Blk Carb-Lt Gry-Aqua Fissil No Odor No Stn No Flor NS

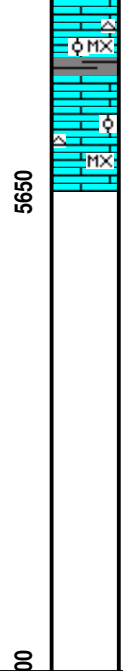
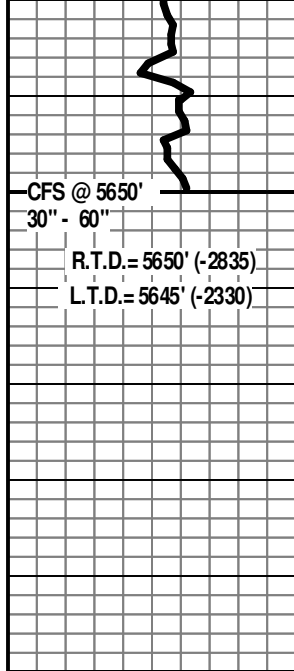
Ls Crm MicroxIn-FxIn Poor-Fair IxIn Por Dns Micrite Grad Poor-Fair OOL Por (w/Small-Med OOids in pl) Friable "Sandy OOL Ls"- Cht Wht-Lt Gry-Peach Translu-Op Shp Vit Pyr Mass Sh Char-Blk Carb-Lt Gry-Aqua Fissil No Odor No Stn No Flor NS

Ls Crm MicroxIn-FxIn Poor-Fair IxIn Por Dns Micrite Inc Grad Poor OOL Por (w/Small OOids in pl w/Pyr Includ) Friable "Sandy OOL Ls" Fos (Brach) Sh Char-Blk Carb-Gry Tr Fissil No Odor No Stn No Flor NS

Ls Crm-Gry MicroxIn-FxIn Poor IxIn Por Dns Micrite Inc Grad Poor OOL Por (w/Small-Med OOids in pl) Friable "Sandy OOL Ls Dec"- Cht Wht-Lt Gry Translu-Op Shp Vit Sh Char-Blk Carb-Lt Gry Fissil No Odor No Stn No Flor NS

Ls Crm-Gry MicroxIn Poor IxIn Por Dns Micrite Poor OOMP Por AA (Tr Only) Cht Wht-Lt Gry Translu-Op Shp Vit Sh Char-Blk Carb-Lt Gry Fissil No Odor No Stn No Flor NS





30" CFS @ 5650' Ls Crm-Gry Microxn Poor lxln Por Dns Micrite Poor OOL Por AA (Tr Only)
Cht Wht-Lt Gry Translu-Op Shp Vit Sh Char-Blk Carb-Lt Gry Fissil No Odor No Stn No Flor NS

60" CFS @ 5650' Ls Crm-Gry Microxn Poor lxln Por Dns Micrite Poor OOL Por AA (Tr Only)
Cht Wht-Lt Gry Translu-Op Shp Vit Sh Char-Blk Carb-Lt Gry Fissil No Odor No Stn No Flor NS

**Electric Logs Run: By Halliburton Logging: Dual Induction;
Compensated Density-Neutron; Sonic; Microresistivity & Cased
Hole Gamma Ray-Nutron Logs.**

Geologist Left Location At: 9:00 AM on 9/13/2013

