



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

Well Name: SCHMIDT C #7-29
Location: NE-NE-NW of SEC. 29 - T. 30 S. - R. 31 W.
License Number: A.P.I. # 15-081-22,047-00-00
Spud Date: 01/31/2014
Surface Coordinates: 330' FNL & 2310' FWL

Region: HASKELL CO., KS.
Drilling Completed: 2/12/2014

**Bottom Hole
Coordinates:**
Ground Elevation (ft): 2849' **K.B. Elevation (ft):** 2860'
Logged Interval (ft): 1830' **To:** 5676' **Total Depth (ft):** 5676'
Formation: MISSISSIPPIAN "ST. LOUIS"
Type of Drilling Fluid: CHEMICAL/POLYMER/GEL

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 (DWE)
Address: 312 N. BROADVIEW STREET
WICHITA, KANSAS 67208

CASINGS & DEVIATION

Surface Casing: Spud at :15 pm on 01/31/14. Drilled 12-1/4" to 1836'. Ran 44 joints of new 24#, 8-5/8" casing. Tallied 1816.35'. Set at 1830' KB. Welded straps on bottom 3 joints, tacked collars on the remainder. Centralizers (5) on 1;3;5;7 & 14. Basket at 619'. Float insert in top of 1st joint. Cemented with 670 sks Class A; 65/35; 6% Gel; 3% CC & 1/4# FS; Plus tailed with 200 sks Class A; 2% CC & 1/4# FS. Cement did circulate. Plug down at at 2:00 P.M. Cement did fall 80' below GL. Cemented through 1" tubing with 110 sks Class A.M.on 02/02/14. Allied Cementing ticket #53067.

Deviation Survey's Taken: @ 1836' = 1/2 Degree; @ 4538' = 3/4 degree; @ 5671' = 3/4 degree.

DSTs

~~ DST # 1~~ Interval: 4490'-4538'. Times: 30"- 60"- 90"- 150";

Blow: IF= Weak Surface/ 1". No Blow Back During ISIP. FF= Fair Blow/7.5". No Blow Back During FSIP.

Recovery: TF: 210' : 90' OCM (5% O & 95% M) & 120' WCM W/Oil Spots (60% M & 40% W).

Pressures: IH=2224#; FH=2237#; IF=23-33#; FF=43-119#; ISIP= 964#; FSIP=945#; T.= 114 degrees F.; Chl. = 28,000 Ppm.; RW =.618 @ 13 degrees F..

~~DST #2~~ Interval: 4730'-4758'. Times: 30"- 60"-90"-120";

Blow: IF= Weak Surface/ 2". No Blow Back During ISIP. FF= Fair Inc. Blow BOB/, 18". Weak Surface Blow Back During FSIP.

Recovery: TF: 280' MCW (w/Oil Scum: 20% M & 80% W).

Pressures: IH=2391#; FH=2365#; IF=19-41#; FF=46-145#; ISIP= 1262#; FSIP=1195#; T.= 114 degrees F.; Chl.=80,000 Ppm; RW =.211 @ 20 degrees F.

~~DST #3~~Interval: 4858'-4884'. Times: 30"- 60"-120"-150";

Blow: IF= BOB/1". BOB Blow Back During ISIP. FF= BOB/Instant. GTS/36" TSTM. BOB Blow Back During FSIP

Recovery: TF: 690': 250' GOWCM (20% G,, 10% O,, 65% M & 5% W); & 440' GMCW (10% G,, 85% W & 5% M).

Pressures: IH= 2496#; FH=2458#; IF=81-83#; FF=96-316#; ISIP= 1107#; FSIP=1400#; T.=124 degrees F.; Chl.=225,000 Ppm.; RW= .098 @ 24 degrees F..

Comments

After review of all geologic samples as examined, combined with the fluid and pressures results from all drill stem tests taken and analysis from the electric logs run, it was determined by all parties that production casing should be run in order to further evaluate this well.

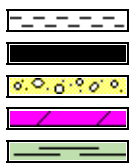
Respectfully submitted,

David P. Williams, P.G

ROCK TYPES



Anhy
Bent
Brec
Carb sh
Cht



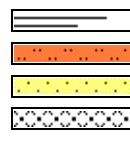
Clyst
Coal
Congl
Dol
Grn sh



Gry shale
Gyp
Igne
Lmst
Meta



Mrlst
Red shale
Salt
Shale
Shcol



Shgy
Sltst
Ss
Till

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecrefrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp

- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

FOSSIL

- Algae
- Amph

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

- Pellet
- Pisolite
- Plant
- Strom

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Gryslt
- Sltstrg
- Ssstrg

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint

- Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

- Even
- Spotted
- Ques
- Dead

- Dst_alt

EVENT

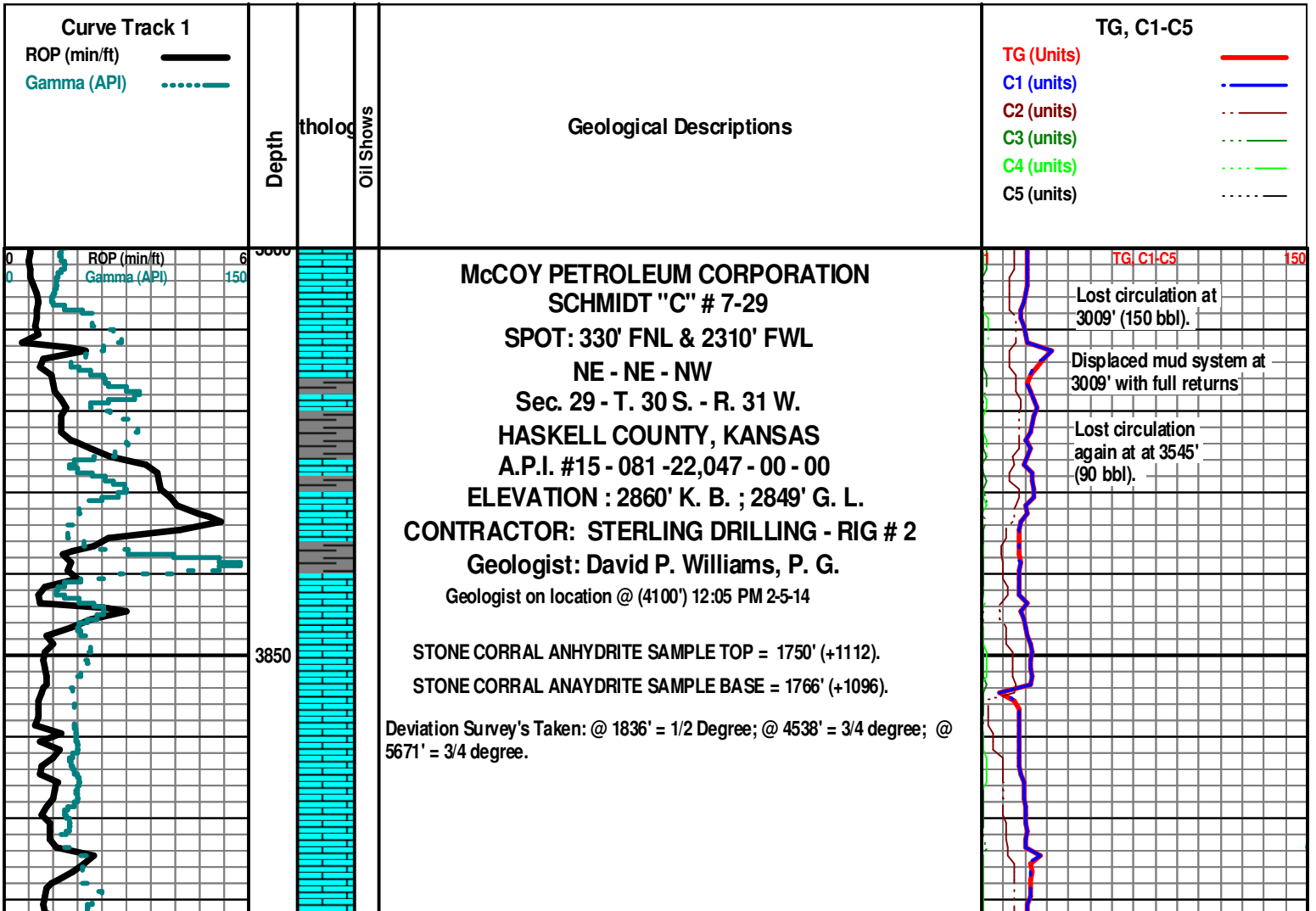
- Rft
- Sidewall

OIL SHOW

- Gas show

INTERVAL

- Core
- Dst



3900

3950

4000

4050

4100

Note: All samples have been lagged to depth by calculated time
Begin 10' Sample Examination @ 4000'.

Ls Wht-Crm FxIn Dns Micrite (w/Tr Pyr Includ) Grad Poor IxIn Por Barren Fos (Crin) Sh Char-Gry-Blk Carb Fissil Abd No Flor No Stn No Odor NS

Ls Wht-Crm FxIn Dns Micrite (w/Tr Pyr Includ) Grad Poor IxIn Por Barren Fos (Crin) Sh Char-Gry-Blk Carb Fissil Abd No Flor No Stn No Odor NS

Ls Wht-Crm FxIn Dns Micrite (w/Tr Pyr Includ) Grad Poor IxIn Por Barren Fos (Crin) Sh Char-Gry-Blk Carb Fissil Abd No Flor No Stn No Odor NS

Sh Char-Gry-Blk Carb Fissil Ls Wht-Crm FxIn Dns Micrite (w/Tr Pyr Includ) Grad Poor IxIn Por Barren Fos (Crin) No Flor No Stn No Odor NS

Sh Char-Gry-Blk Carb Fissil Ls Wht-Crm FxIn Dns Micrite (w/Tr Pyr Includ) Grad Poor IxIn Por Barren Fos (Crin) No Flor No Stn No Odor NS

Ls Crm-Lt Gry-Drk Gry FxIn Dns Micrite (w/Tr Pyr Includ) Grad Poor IxIn Por Barren Sh Char-Gry-Blk Carb Fissil Abd No Flor No Stn No Odor NS

Ls Crm-Lt Gry-Drk Gry FxIn Dns Micrite (w/Tr Pyr Includ) Grad Poor IxIn Por Barren Sh Char-Gry-Blk Carb Fissil Abd No Flor No Stn No Odor NS

Ls Crm-Lt Gry-Drk Gry FxIn Dns Micrite (w/Tr Pyr Includ) Grad Poor IxIn Por Barren Sh Char-Gry-Blk Carb Fissil Abd No Flor No Stn No Odor NS

Ls Crm-Gry-Brn FxIn Dns Micrite Grad Poor OOL Por (w/Small OOL in pl) Barren Poor Dissolu Poor Leaching Sh Char-Gry-Blk Carb Fissil Abd No Flor No Stn No Odor NS

Ls Crm-Gry-Brn FxIn Dns Micrite Grad Poor OOL Por (w/Small OOL in pl) Barren Poor Dissolu Poor Leaching Sh Char-Gry-Blk Carb Fissil Abd No Flor No Stn No Odor NS

Ls Crm-Gry-Brn FxIn Dns Micrite Grad Poor OOL Por (w/Small OOL in pl) Barren Poor Dissolu Poor Leaching Sh Char-Gry-Blk Carb Fissil Abd No Flor No Stn No Odor NS

Ls Crm-Gry-Brn FxIn Dns Micrite Grad Poor OOL Por (w/Small OOL in pl) Barren Poor Dissolu Poor Leaching Sh Char-Gry-Blk Carb Fissil Abd ? Sluff No Flor No Stn No Odor NS

Ls Crm-Gry FxIn Dns Micrite Grad Poor OOL Por (w/Small OOL in pl) Barren Poor Dissolu Poor Leaching Chalk Wht Soft Abd Sh Char-Gry-Blk Carb Fissil No Flor No Stn No Odor NS

Ls Crm-Gry FxIn Dns Micrite Grad Poor OOL Por (w/Small OOL in pl) Barren Poor Dissolu Poor Leaching Chalk Wht Soft Abd Sh Char-Gry-Blk Carb Fissil No Flor No Stn No Odor NS

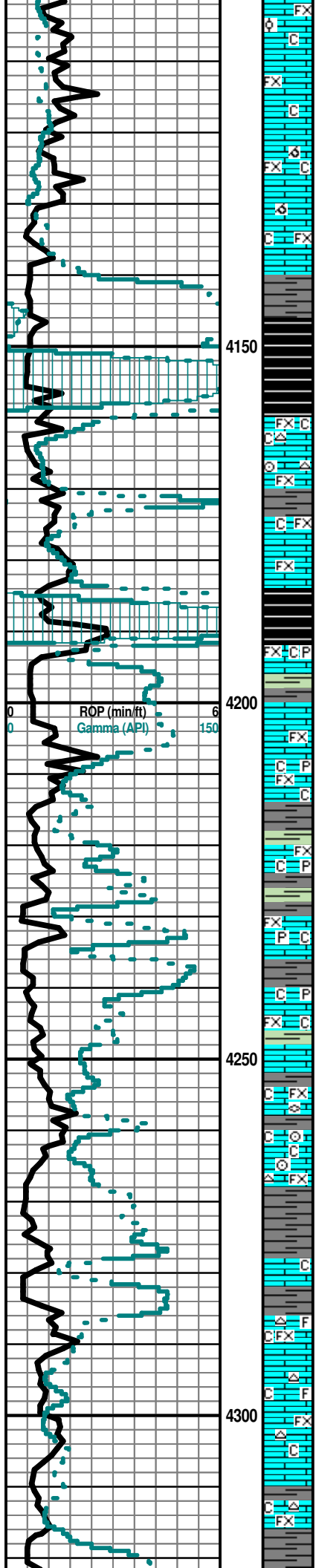
Ls Crm-Gry FxIn Dns Micrite Grad Poor OOL Por (w/Small OOL in pl) Barren Poor Dissolu Poor Leaching Chalk Wht Soft Abd Sh Char-Gry-Blk Carb Fissil No Flor No Stn No Odor NS

SH GAS KICK = 148 UNITS

SH GAS KICK = 85 UNITS

TG C1-C5 150

Mudco Ck
@ 4090' @
10:50 AM
2/05/14 Vis
56; WT=
0.3# PV-20'



Ls Crm-Gry FxIn Dns Micrite Chalk Wht Sh Char-Gry-Blk Carb Fissil No Flor No Stn No Odor NS

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

Ls Crm-Gry FxIn Dns Micrite Grad Poor OOM Por Poor InterOOM Por Barren Poor Dissolu Poor Leaching Chalk Wht Soft Sh Char-Gry-Blk Carb Fissil No Flor No Stn No Odor NS

Ls Crm-Gry FxIn Dns Micrite Grad Poor OOM Por Poor InterOOM Por Barren Poor Dissolu Poor Leaching Chalk Wht Soft Sh Char-Gry-Blk Carb Fissil No Flor No Stn No Odor NS

Sh Char-Gry-Blk Carb Fissil Abd Ls Crm-Gry FxIn Dns Micrite Barren Chalk Wht Soft No Flor No Stn No Odor NS

Sh Char-Gry-Blk Carb Fissil Abd Ls Wht-Crm-Gry FxIn Dns Micrite Barren Cht Gry Op Shp Vit Chalk No Flor No Stn No Odor NS

Ls Wht-Crm-Gry-Brn FxIn Dns Micrite Cht Wht Op Shp Vit Chalk Fos (Crin) Sh Char-Grn-Gry-Blk Carb Fissil No Flor No Stn No Odor NS

Ls Wht-Crm-Gry-Brn FxIn Dns Micrite Chalk Sh Char-Grn-Gry-Blk Carb Fissil Abd No Flor No Stn No Odor NS

HEEBNER 4184' (- 1324)

Sh -Blk Carb-Char-Grn-Gry Fissil Abd Ls Wht-Crm-Gry-Brn FxIn Dns Micrite (w/Pyr Inclus) Chalk Wht No Flor No Stn No Odor NS

Ls Wht-Crm-Gry-Brn FxIn Dns Micrite (w/Pyr Inclus) Chalk Wht Sh Char-Grn-Gry-Blk Carb Fissil Abd No Flor No Stn No Odor NS

TORONTO 4206' (- 1346)

Ls Wht-Crm-Gry FxIn Dns Micrite (w/Pyr Inclus) Chalk Sh Char- Grn-Gry-Blk Carb Fissil Abd No Flor No Stn No Odor NS

Ls Wht-Crm-Gry-Brn FxIn Dns Micrite (w/Pyr Inclus) Chalk Wht Sh Char-Grn-Gry-Blk Carb Fissil Abd No Flor No Stn No Odor NS

Ls Wht-Crm-Gry-Brn FxIn Dns Micrite (w/Pyr Inclus) Chalk Sh Char-Grn-Gry-Blk Carb-Aqua Fissil No Flor No Stn No Odor NS

Ls Wht-Crm-Gry-Brn FxIn Dns Micrite (w/Pyr Inclus) Chalk Wht Sh Char-Grn-Gry-Blk Carb-Aqua Fissil Abd No Flor No Stn No Odor NS

DOUGLAS 4234' (- 1374)

Ls Wht-Crm-Gry FxIn Dns Micrite Grad Fair IxIn Pin-Pt Por Barren Chalk Sh Char-Grn-Gry-Blk Carb-Aqua Fissil No Flor No Stn No Odor NS

LANSING 4254' (- 1394)

Ls Wht-Crm-Gry-Brn FxIn Dns Micrite (w/Pyr Inclus) Fos (Fuss) Chalk Sh Char-Grn-Gry-Blk Carb Fissil No Flor No Stn No Odor NS

Ls Wht-Crm-Gry-Brn FxIn Dns Micrite (w/Pyr Inclus) Fos (Crin) Chalk Sh Char-Grn-Gry-Blk Carb Fissil No Flor No Stn No Odor NS

Ls Wht-Crm FxIn Dns Micrite Grad Pin-Pt IxIn Por Cht Tan Translu-Op Shp Vit Chalk Fos (Crin) Sh Char-Grn-Gry-Blk Carb Fissil No Flor No Stn No Odor NS

Ls Wht-Crm-Gry FxIn Dns Micrite Grad Pin-Pt IxIn Por Cht Wht-Gry (w/Fos Inclus) Op Shp Vit Chalk Sh Char-Grn-Gry-Blk Carb-Aqua Fissil No Flor No Stn No Odor NS

Ls Wht-Crm-Gry FxIn Dns Micrite Grad Pin-Pt IxIn Por Cht Wht-Gry (w/Fos Inclus) Op Shp Vit Chalk Sh Char-Grn-Gry Fissil No Flor No Stn No Odor NS

Ls Wht-Crm-Gry FxIn Dns Micrite Grad Pin-Pt IxIn Por Cht Amber Translu Op Shp Vit Chalk Sh Char-Grn-Gry Fissil No Flor No Stn No Odor NS

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

YP= 25;
 WL=15.6;
 Cake= 2;
 Chl=4500;
 Cal=180;
 Sol=6.5%
 LCM= 4#;
 DMC=\$
 2,842.60
 CMC=\$
 13,806.20

TG, C1-C5 150
 CHANGEOUT EXTRACTOR
 FILTER & GAS TEST @
 4226- (4207' LAG DEPTH).

Sh Char-Grn-Gry Fissil Ls Wht-Crm-Tan Fxln Dns Micrite Grad Pin-Pt Ixln Por Cht Wht Op Shp Vit Chalk No Flor No Stn No Odor NS

Sh Char-Grn-Gry Fissil Ls Wht-Crm-Tan Fxln Dns Micrite Grad Pin-Pt Ixln Por Cht Wht-Amber Translu-Op Shp Vit Chalk No Flor No Stn No Odor NS

Ls Wht-Crm-Tan Fxln Dns Micrite Grad Pin-Pt Ixln Por Grad Poor OOM Por Poor InterOOM Por Poor Develop Poor Leaching Cht Wht Op Shp Vit Chalk Sh Char-Grn-Gry Fissil No Flor No Stn No Odor NS

Ls Wht-Crm-Tan Fxln Dns Micrite Grad Pin-Pt Ixln Por Grad Poor OOM Por Poor InterOOM Por Poor Develop Poor Leaching Cht Wht Op Shp Vit Chalk Sh Char-Grn-Gry Fissil No Flor No Stn No Odor NS

Ls Wht-Crm-Tan Fxln Dns Micrite Grad Pin-Pt Ixln Por Grad Poor OOM Por Poor InterOOM Por Poor Develop Poor Leaching Cht Wht Op Shp Vit Chalk Sh Char-Grn-Gry Fissil No Flor No Stn No Odor NS

Ls Wht Fxln Dns Micrite Grad Pin-Pt Ixln Por Grad Poor OOM Por Poor InterOOM Por Poor Develop Poor Leaching Cht Wht Op Shp Vit Chalk Sh Char-Grn-Gry Fissil No Flor No Stn No Odor NS

Ls Wht Fxln Dns Micrite Grad Pin-Pt Ixln Por Grad Poor OOM Por Poor InterOOM Por Poor Develop Poor Leaching Cht Wht Op Shp Vit Chalk Sh Char-Grn-Gry Fissil No Flor No Stn No Odor NS

Ls Wht-Crm-Tan Fxln Dns Micrite Grad Pin-Pt Ixln Por Cht Gry- Amber Translu Op Shp Vit Chalk Sh Char-Grn-Gry Fissil No Flor No Stn No Odor NS

Ls Wht Fxln Dns Micrite Grad Pin-Pt Ixln Por Grad Poor OOM Por Poor InterOOM Por Poor Develop Poor Leaching Cht Wht Op Shp Vit Chalk V Abd Sh Char-Grn-Gry Fissil No Flor No Stn No Odor NS

Ls Wht-Crm-Tan Fxln Dns Micrite Grad Pin-Pt Ixln Por Grad Poor OOM Por Poor InterOOM Por Poor Develop Poor Leaching Cht Gry-Translu Op Shp Vit Chalk Sh Char-Grn-Gry Fissil No Flor No Stn No Odor NS

Ls Wht-Crm-Drk Tan Fxln Dns Micrite Grad Good Vug OOM Por Good InterOOM Por Good Develop Good Leaching Barren Fos (Crin) Chalk Sh Char-Grn-Gry Fissil No Flor No Stn No Odor NS

30" CFS @ 4458' Ls Wht-Crm-Drk Tan Fxln Dns Micrite Grad Good Vug OOM Por Good InterOOM Por Good Develop Good Leaching Barren Fos (Crin) Chalk Sh Char-Grn-Gry Fissil No Flor No Stn No Odor NS

60" CFS @ 4458' Ls Wht-Crm-Drk Tan Fxln Dns Micrite Grad Good Vug OOM Por Good InterOOM Por Good Develop Good Leaching Barren Fos (Crin) Chalk Sh Char-Grn-Gry Fissil No Flor No Stn No Odor NS

Ls Wht-Crm-Gry Fxln Micritic Grad Poor Ixln Por Grad Good Vug OOM Por Good InterOOM Por Good Develop Good Leaching Barren Cht Wht-Tan-Gry Op Vit Shp Chalk Sh Char-Gry-Grn Soft-Fissil No Odor ? Min Flor No Stn NS

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

Ls Wht-Crm-Gry Fxln Micritic Grad Poor Ixln Por Grad Good Vug OOM Por Good InterOOM Por Good Develop Good Leaching Barren Cht Wht-Tan-Gry Op Vit Shp Chalk V Abd Sh Char-Gry-Grn Soft-Fissil No Odor ? Min Flor No Stn NS

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

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

MUNCIE CREEK 4514' (-1654)

Sh Blk Carb-Char-Gry-Grn Soft-Fissil Ls Wht-Crm-Lt Tan Fxln Micritic Grad Poor Ixln Por Fos (Crin) Chalk Wht Soft Abd No Odor ? Min Flor No Stn NS

LANSING "G" 4530' (-1670)

30" CFS @ 4538' Ls Crm-Lt Tan Fxln (w/Tr Pyr Includ) Good Ixln Pin-Pt Por Grad Med-Good OOM Por (w/Med-Lg Sized OOids in pl) Med-Good Dissolu Med-Good Vug Leaching Friable (GSG & GSFO In Tray & In Wtr Under Heat) Both Gas & Oil Do Flor (Lt Grn) Cht Wht Op Shp Vit Sh Char-Gry Fissil AA Med-Good Flor (25% of Tray) Fair Odor Med Sat Stn Lt Brn GSG & GSFO

60" CFS @ 4538' Ls AA Good OOM Por Med-Good InterOOM Por & GSO AA Faint Odor Fair-Med Flor (15% of Tray) SG & SO

DST # 1

Interval: 4490'-4538'. Times: 30"- 60"- 90"- 150"; Blow: IF= Weak Surface/ 1". No Blow Back During ISIP. FF= Fair Blow/7.5". No Blow Back During FSIP.

TGI, C1-C5 150

Recovery: TF: 210' : 90' OCM (5% O & 95% M) & 120' WCM W/Oil Spots (60% M & 40% W).

Pressures: IH = 2224#; FH = 2237#; IF = 23-33#; FF = 43-119#; ISIP = 964#; FSIP = 945#; T. = 114 degrees F.; Chl. = 28,000 Ppm. RW = .618 @ 13 degrees F.

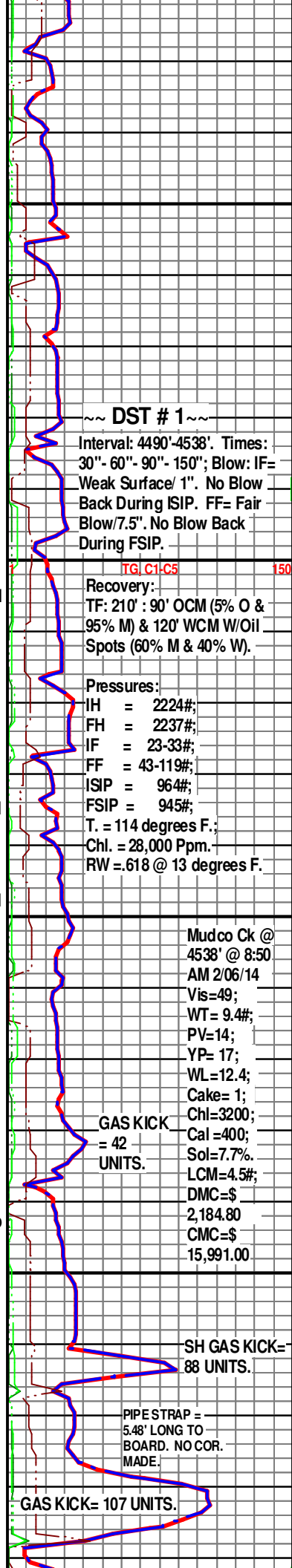
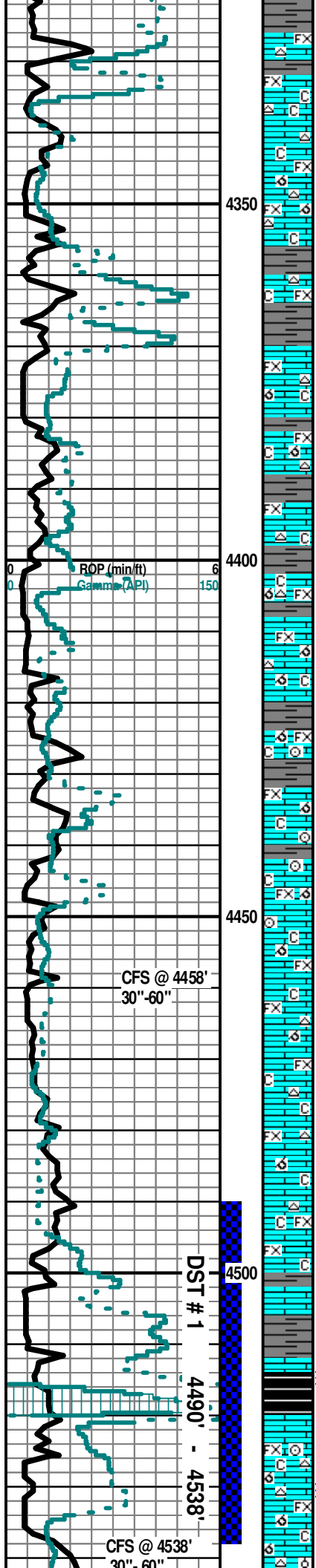
Mudco Ck @ 4538' @ 8:50 AM 2/06/14 Vis=49; WT= 9.4#; PV=14; YP= 17; WL=12.4; Cake= 1; Chl=3200; Cal=400; Sol=7.7%. LCM=4.5#; DMC=\$ 2,184.80 CMC=\$ 15,991.00

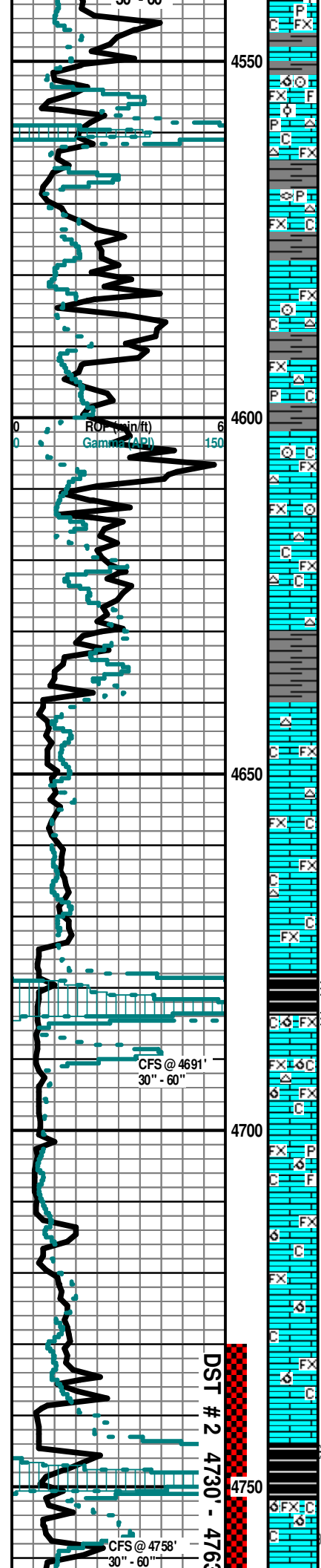
GAS KICK = 42 UNITS.

SH GAS KICK= 88 UNITS.

PIPE STRAP = 5.48' LONG TO BOARD. NO COR. MADE.

GAS KICK= 107 UNITS.





Sh Char-Gry-Blk Carb Fissil Ls Crm-Lt Tan Fxln (w/Tr Pyr Inclus) Fair-Med OOM Por (w/Med Sized OOids in pl) Fair-Med Dissolu Fair-Med Vug Leaching Pyr Mass Chalky No Flor No Odor No Stn Lt Brn NS

Sh Char-Gry Soft-Fissil Ls Wht-Tan Fxln Micrite Grad Good OOM Por (w/OOids in pl AA) Med-Good Vug Leaching Med Dissolu Cht Wht-Gry (w/Fos (Spiculitic Inclus) Op Shp Vit Fos (Crin) Pyr Mass Chalky No Odor No Stn No Flor NS

Ls Wht-Crm-Tan Fxln Micrite (w/Pyr Inclus) Cht Wht-Gry Op Shp Vit Fos (Fuss) Chalky Sh Char-Gry No Odor No Stn ? Min Flor Dec NS

Ls Wht-Crm-Tan-Gry Fxln Micrite Cht Wht-Gry Op Shp Vit Chalky Sh Char-Gry-Blk Carb No Odor No Stn ? Min Flor NS

Ls Wht-Crm-Tan-Gry Fxln Micrite Grad Good OOM Por Pcs Med-Good Vug Leaching Med Dissolu Good Sat Stn SG & SO AA (? Stuff) Cht Wht-Gry Op Shp Vit Fos (Crin) Chalky Sh Char-Gry AA No Odor Tr Lt Brn Stn AA ? Min Flo NS

Ls Wht-Crm-Tan-Gry Fxln Micrite Cht Wht-Amber (Banded) Op Shp Vit Pyr Mass Chalky Sh Char-Gry Fissil No Odor No Stn ? Min Flor NS

Ls Wht-Crm-Gry Fxln-Microxln Micrite Cht Wht Op Shp Vit Fos (Crin) Chalky Sh Char-Gry Fissil No Odor No Stn ? Min Flor NS

Ls Wht-Crm Fxln-Microxln Micrite Fos (Crin) Chalky Sh Char-Gry Fissil No Odor No Stn ? Min Flor NS

Ls Wht-Crm Fxln-Microxln Micrite Chalky Sh Char-Gry Fissil No Odor No Stn ? Min Flor NS

Ls Wht-Crm Fxln-Microxln Micrite Cht Gry Op Shp Vit Chalk Abd Sh Char-Gry Fissil No Odor No Stn ? Min Flor NS

Ls Wht-Crm Fxln-Microxln Micrite Cht Gry Op Shp Vit Chalk Abd Sh Char-Gry Fissil No Odor No Stn ? Min Flor NS

Ls Wht-Crm Fxln-Microxln Micrite Cht Gry Op Shp Vit Chalk Abd Sh Char-Gry Fissil No Odor No Stn ? Min Flor NS

Ls Wht-Crm Fxln-Microxln Micrite Cht Gry Op Shp Vit Chalk Abd Sh Char-Gry Fissil No Odor No Stn ? Min Flor NS

STARK SHALE 4678' (- 1818)

KANSAS CITY "SWOPE (K)" 4684' (- 1824)

30" CFS @ 4691' Ls Wht-Crm Fxln Med OOM Por (w/Med OOids in pl) Med Dissolu Med Vug Leaching Soft GSG & FSFO (In Wtr Under Heat Both Gas & Oil Do Flor (Lt Grn-Wht)) Cht Wht-Gry Op Shp Vit Chalk Abd Sh Char-Gry-Blk Carb Fissil Med-Good Flor (25% of Tray) Good-Strong Odor Med Sat Stn Lt Brn GSG & SFO in Tray

60" CFS @ 4691' Ls Wht-Crm Fxln Med OOM Por AA Dissolu Med Vug Leaching Soft GSG & FSFO AA Cht Wht-Gry Op Shp Vit Chalk Abd Sh AA Good-Strong Odor Med-Good Sat Stn (Lt Brn) Scat Flor (Lt Grn) GSG & SFO in Tray

Ls Wht-Crm Fxln Med-Good OOM Por (w/Med Sized OOL in pl) Med-Good Dissolu Med-Good Vug Leached Por (w/Pyr Inclus) GSG & FSFO (In Wtr Under Heat Both Gas & Oil Do Flor (Lt Grn -Wht)) Cht Wht-Gry (w/Fos (Spiculitic Inclus) Op Shp Vit Chalk Sh Char-Gry-Blk Carb Fissil Med-Good Flor (40% of Tray) Med - Good Odor Med Sat Stn Lt Brn GSG & FSO

Ls Crm-Tan Fxln Med-Good OOM Por Med-Good Dissolu Med -Good Vug Leached Por Chalk No Odor Med ? Flor No Stn

Ls Crm-Tan Fxln Med-Good OOM Por Med-Good Dissolu Med -Good Vug Leached Por Chalk No Odor Med ? Flor No Stn

Ls Wht-Crm Fxln Med-Good OOM Por Med-Good Dissolu Good Vug Leached Por (w/Fair SG & SO (Lt Brn In Wtr Under Heat & Both Gas & Oil Do Flor (Lt Grn)) Fair-Good Odor Med-Flor Lt Brn Stn FSG & FSO

HUSHPUCKNEY SHALE 4744' (- 1878)

Sh Blk Carb Fissil Ls AA Sli Odor AA Sli Stn AA Sli Flor AA SSG & SSO

KANSAS CITY "HERTHA (L)" 4752' (- 1885)

30" CFS @ 4758 Ls Wht-Crm Fxln Dns Micrite Grad Med OOM Por Med Dissolu Med Vug Leached Por (w/SG & SO Lt Brn In Wtr Under Heat Both Gas & Oil Do Flor (Lt Grn)) (< 5% in Tray) Cht Wht Op Shp Vit Sli Odor Med-Flor Lt Brn Stn FSG & FSO

~DST #2~

Interval: 4730'-4758'
 Times: 30"-
 60"-90"-120"; Blow: IF=
 Weak Surface/ 2". No
 Blow Back During ISIP.
 FF= Fair Inc. Blow
 BOB/, 18". Weak Surface
 Blow Back During FSIP.

Recovery:
 TF: 280' MCW
 (w/Oil Scum: 20%
 M & 80% W).

Pressures:
 IH = 2391#;
 FH = 2365#;
 IF = 19-41#;
 FF = 46-145#;
 ISIP = 1262#;
 FSIP = 1195#;
 T. = 114 degrees F.;
 Chl. = 80,000 Ppm.
 RW = .211 @ 20
 degrees F.

SH GAS KICK= 137 UNITS

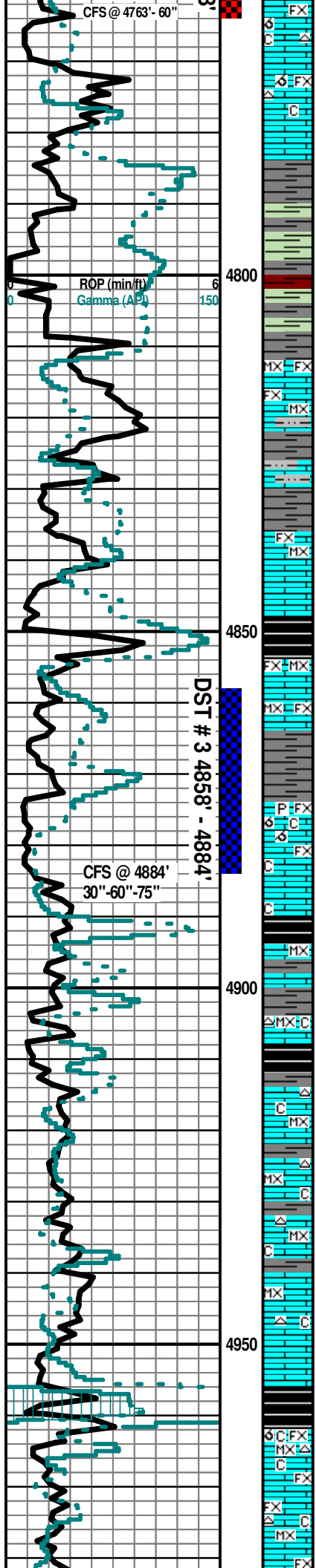
GAS KICK= 120 UNITS

Mudco Ck @
 4729' @ 10:30
 AM 2/07/14
 Vis=52; WT=
 9.4#; PV=14;
 YP= 18;
 WL=12.8;
 Cake= 2;
 Chl=3500; Cal
 =160; Sol=7.5%.
 LCM=4#;
 DMC=\$ 741.15
 CMC=\$
 16,732.15

Mudco Ck @
 4763' @
 10:30 AM
 2/08/14
 Vis=54;
 WT= 9.4#;
 PV=15; YP=
 10. WL=8.8;
 Cake= 1;
 Chl=3500;
 Cal =80;
 Sol=7.6%.
 LCM=4#;
 DMC=\$
 913.05

CHANGEOUT
 FROZEN
 EXTRACTOR
 FILTER @ 4746'
 LAG DEPTH.
 Scale Change
 TGI C1C5

GAS KICK = 74
 UNITS.
 GAS KICK =
 105 UNITS.



60" CFS @ 4758' Ls Wht-Crm FxIn Dns Micrite Grad Med OOM Por (w/Sma.. OOids in pl) Med Dissolu Med Vug Leached Por (w/SG & SO Lt Brn In Wtr Under Heat Both Gas & Oil Do Flor (Lt Grn)) (< 15% in Tray) Cht Wht Op Shp Vit Slii Odor Med-Flor Lt Brn Stn FSG & FSO

60" CFS @ 4763' Ls Wht-Crm FxIn AA Grad Med OOM Por AA (w/SG & SO (< 10% in Tray) Cht Wht Op Shp Vit Fair-Med Odor Med-Flor Lt Brn Stn SG & SO

Ls Wht-Crm FxIn Med-Good OOM Por Med-Good Dissolu Good Vug Leached Por AA Cht Wht Op Shp Vit No Odor No Flor No Stn NS

Sh Char-Gry-Blk Carb Fissil Ls Tan-Gry FxIn-MicroxIn Dns Micrite Grad Ls Wht-Crm FxIn Med-Good OOM Por Med-Good Dissolu Good Vug Leached Por AA No Odor No Flor No Stn NS

Sh Char-Grn/Gry-Blk Carb-Red Fissil Ls Tan-Gry FxIn-MicroxIn Dns Micrite AA No Odor no Flor No Stn NS

Sh Char-Grn/Gry-Blk Carb Fissil Ls Tan-Gry FxIn-MicroxIn Dns Micrite AA No Odor no Flor No Stn NS

Sh Char-Grn/Gry-Blk Carb Fissil Ls Tan-Gry FxIn-MicroxIn Dns Micrite AA No Odor no Flor No Stn NS

Sh Char-Grn-Gry-Blk Carb Fissil Gry Siltstn Abd V FGm Ls Tan-Gry FxIn-MicroxIn Dns Micrite Barren No Odor No Flor No Stn NS

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

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

MARMATON 4854' (- 1994)

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

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

MARMATON "B" 4874' (- 2014)

30" CFS @ 4884' Ls Wht-Crm FxIn Dns Micrite (w/Pyr Inclus) Grad Med-Good OOM Por Good Vug InterOOM/OOL (w/Small OOids in pl) Leached Por (w/SG/FSO) Chalk Sh Blk Carb-Char Fissil AA (Both Gas & Oil Do Flor) Good Scatt Flor (Lt Grn) ? Stn Med Odor GSG & MSO

60" CFS @ 4884' Ls Wht-Crm FxIn Dns Micrite Grad Good OOM Por Good Vug InterOOM/OOL (w/Small OOids in pl) Good Develop & Leaching Por (w/SG/FSO) Chalk Sh Blk Carb-Char Fissil Good Scatt Flor (Lt Grn) Good Odor GSG & MSO

Ls Wht-Crm-Tan MicroxIn-FxIn Dns Micrite Chalk Sh Blk Carb-Char Fissil No Flor No Stn No Odor NS

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

Sh Blk Carb-Gry Fissil Ls Wht-Crm FxIn-MicroxIn Dns Micrite Barren Cht Wht-Gry Op Shp Vit Chalky No Odor No Flor No Stn NS

Ls Wht-Crm-Tan-Gry-Brn MicroxIn Dns Micrite Barren V Chalky (Abd) Cht Wht-Gry Op Shp Vit Sh Blk Carb-Char-Gry Fissil No Flor No Stn No Odor NS

Ls Wht-Crm MicroxIn Dns Micrite Barren V Chalky (Abd) Cht Wht-Gry Op Shp Vit Sh Blk Carb-Char-Gry Fissil No Flor No Stn No Odor NS

Ls Wht-Crm MicroxIn Dns Micrite Barren V Chalky (Abd) Cht Wht-Gry Op Shp Vit Sh Blk Carb-Char-Gry Fissil No Flor No Stn No Odor NS

PAWNEE 4961' (- 2101')

Sh Blk Carb-Gry Fissil Ls Wht-Crm FxIn-MicroxIn Dns Micrite Grad Tr/Med- OOM Por Good Dissolu Good Vug Leaching Barren Chalky No Odor No Flor No Stn NS

Ls Wht-Crm FxIn-MicroxIn Dns Micrite Grad Poor Pin-Pt IxIn Por Barren Cht Gry Op Shp Vit Sh Blk Carb-Gry Fissil No Odor No Flor No Stn NS

Ls Wht-Crm FxIn-MicroxIn Dns Micrite Grad Poor Pin-Pt IxIn Por Barren Cht Gry Op Shp Vit Sh Blk Carb-Gry Fissil No Odor No Flor No Stn NS

DST #3
Interval: 4858'-4884'.
Times: 30"-
60"-120"-150"; Blow: IF=
BOB/1". BOB Blow
Back During ISIP. FF=
BOB/Instant. GTS/36"
TSTM. BOB Blow Back
During FSIP.

Recovery:
TF: 690': 250'
GOWCM (20% G, 10%
O, 65% M & 5% W); &
440' GMCW (10% G,
85% W & 5% M).

Pressures:
IH = 2496#;
FH = 2458#;
IF = 81-83#;
FF = 96-316#;
ISIP = 1107#;
FSIP = 1400#;
T. = 124 degrees F.;
Chl. = 225,000 Ppm.;
RW = .098 @ 24
degrees F..
RW = .211 @ 20
degrees F.

GAS KICK = 206
UNITS

Mudco Ck @
4884' @ 9:30
AM 2/09/14
Vis=50;
WT= 9.4#;
PV=12; YP=
12. WL=9.6;
Cake= 1;
Chl=3500; Cal
=80;
Sol=7.7%.
LCM=3#;
DMC=\$
1,120.45;
CMC=\$
18,765.65

SH GAS KICK =
133 Units.

GAS KICK = 128
UNITS

GAS KICK = 119
UNITS

Ls Wht-Crm FxIn-MicroxIn Dns Micrite Grad Poor Pin-Pt IxIn Por Barren Cht Gry Op Shp Vit Sh Blk Carb-Gry Fissil No Odor No Flor No Stn NS

LABETTE SHALE 4990' (- 2130)

FORT SCOTT 4996' (- 2136)

30" CFS @ 5020' Ls Wht-Crm FxIn-MicroxIn Dns Micrite Grad Poor Pin-Pt IxIn Por Grad Tr Poor OOM Por Barren Cht Wht-Tan (w/Fos Inclus) Op Shp Vit Chalk Sh Blk Carb-Gry Fissil No Odor No Flor No Stn NS

CHEROKEE SHALE 5012' (- 2152)

60" CFS @ 5020' Sh Blk Carb-Gry Fissil Ls Wht-Crm FxIn-MicroxIn Dns Micrite Grad Poor Pin-Pt IxIn Por Grad Poor OOM Por (w/ Small O Olds in pl) Poor Dissolu Poor Develop Poor-No Leaching Barren Cht Wht-Tan (w/Fos Inclus) Op Shp Vit Chalk No Odor No Flor No Stn NS

Sh Blk Carb-Char-Gry Fissil Ls Wht-Crm FxIn-MicroxIn Micritic (w/Pyr Inclus) Cht Wht-Tan Op Vit Shp Chalk No Odor No Stn No Flor NS

Sh Char-Gry-Blk Carb Soft-Fissil Ls Wht-Crm FxIn-MicroxIn Micritic No Odor No stn No Flor NS

Sh Blk Carb-Char-Gry Fissil Ls Wht-Crm-Gry MicroxIn Micrite Cht Amber-Wht (w/Wht Fos Inclus (? Crin) No Odor No Stn No Flor NS

SECOND CHEROKEE SHALE 5050' (- 2190)

Sh Blk Carb-Char-Gry Fissil Ls Wht-Crm FxIn-MicroxIn Micrite Grad Poor Pin-Pt IxIn Por Sli Scat ? Min Flor No Odor No Stn NS

Sh Char-Gry-Blk Carb Fissil Ls Wht-Crm-Tan FxIn-MicroxIn Micrite Cht Wht Op Shp Vit Fos (Brach, Fuss) No Flor No Odor No Stn NS

Ls Wht-Crm FxIn-MicroxIn Micrite Grad Poor Pin-Pt IxIn Por Cht Tan Op Shp Vit Sh Char-Gry-Blk Carb Fissil No Flor No Stn No Odor NS

Ls Wht-Crm-Tan FxIn-MicroxIn Micritic Sh Char-Gry-Blk Carb Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Tan FxIn-MicroxIn Micritic Sh Char-Gry-Blk Carb Fissil No Odor No Stn No Flor NS

Sh Blk Carb-Char-Gry Fissil Ls Wht-Crm FxIn-MicroxIn Micritic No Odor No Stn No Flor NS

Ls Wht-Crm-Tan FxIn-MicroxIn Micritic Grad Poor Pin-Pt IxIn Por Fos (Brach) Sh Char-Gry-Blk Carb Fissil No Odor No Stn No Flor NS

Ls Wht-Crm-Tan FxIn Med Pin-Pt IxIn Por Tr Med Vug Leaching Por V Soft GSG & GSO (GSFO in Tray) Med-Good Odor Good Flor (Lt Grn) Both Gas & Oil Do Flor (Oil V Lt Brn-Clear) (< 20% in Tray) Fos (Pyr Spicule Inclus) Chalk Sh Blk Carb Fissil Med-Good SG & SO

Ls Wht-Crm-Tan FxIn-MicroxIn Micritic Grad Poor Pin-Pt IxIn Por Soft Med-Good Odor Good Flor (Lt Grn < 10% in Tray) Chalk Sh Char-Gry-Blk Carb Fissil No Odor No Stn No Flor NS

30" CFS @ 5165' Ls Wht-Crm-Tan FxIn Med-Good Pin-Pt IxIn Por V Soft Tr Chalky GSG & GSO (GSFO in Tray) Med-Good Odor Good Flor (Lt Grn) Both Gas & Oil Do Flor (Oil V Lt Brn-Clear < 20% in Tray) Sh Blk Carb Fissil Med-Good SG & SO

60" CFS @ 5165' Ls Wht-Crm-Tan-Lt Brn FxIn Med-Good Pin-Pt IxIn Por V Soft Tr Chalky GSG & GSO (GSFO in Tray) Med-Good Odor Good Flor (Lt Grn) Both Gas & Oil Do Flor (Oil V Lt Brn-Clear < 40% in Tray) Sh Blk Carb Fissil Med-Good SG & SO

Ls Crm-Tan-Lt Brn FxIn Poor IxIn Por Micritic Dns Barren Grad Good OOM Vug Por Good InterOOM (w/Med OOids in pl) Por GSG & GSO (GSFO in Tray) Good Leaching Good Develop Good Odor Good Flor (Lt Grn) Both Gas & Oil Do Flor (Oil V Lt Brn Droplets V Lt Brn 40% in Tray) Sh Blk Carb-Gry Fissil Good Lt Brn Stn GSG & GSO

Ls Crm-Tan-Lt Brn FxIn Poor IxIn Por Micritic Dns Barren Grad Good OOM Vug Por Good InterOOM (w/Med OOids in pl) Por GSG & GSO (Few Pcs < 10% in Tray) Good Leaching Good Develop Good Odor Good Flor (Lt Grn) Both Gas & Oil Do Flor (Oil V Lt Brn Droplets) Fos (Fuss) Sh Blk Carb-Gry Fissil Good Lt Brn Stn GSG & GSO AA

Ls Wht-Crm-Tan FxIn-MicroxIn Micritic Grad Poor Pin-Pt IxIn Por Grad Good OOM Vug Por Good InterOOM Por (w/GSG & GSO) AA ? Sluff (< 5% of Tray) Fos (Crin) Sh Char-Gry-Blk Carb Fissil No Odor No Stn No Flor NS

SH GAS KICK = 115 Units.

GAS KICK = 148 UNITS

SH GAS KICK = 134 Units.

GAS KICK= 140 UNITS.

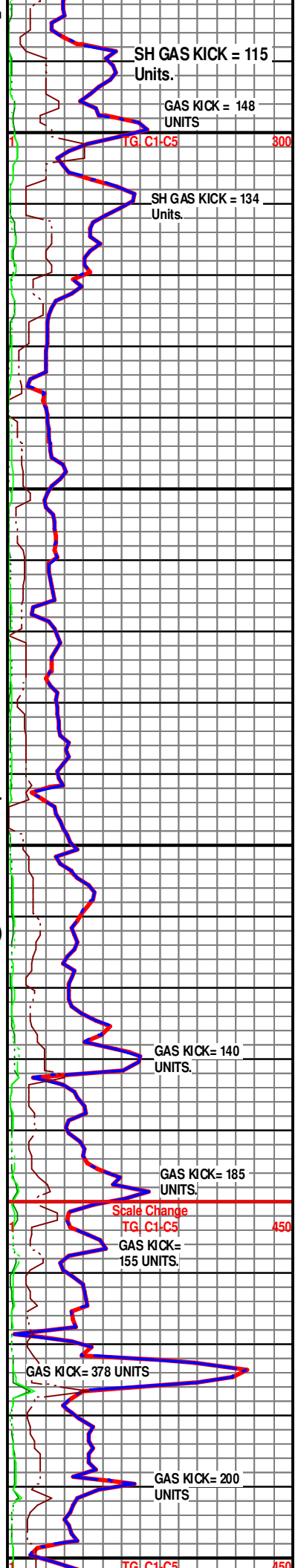
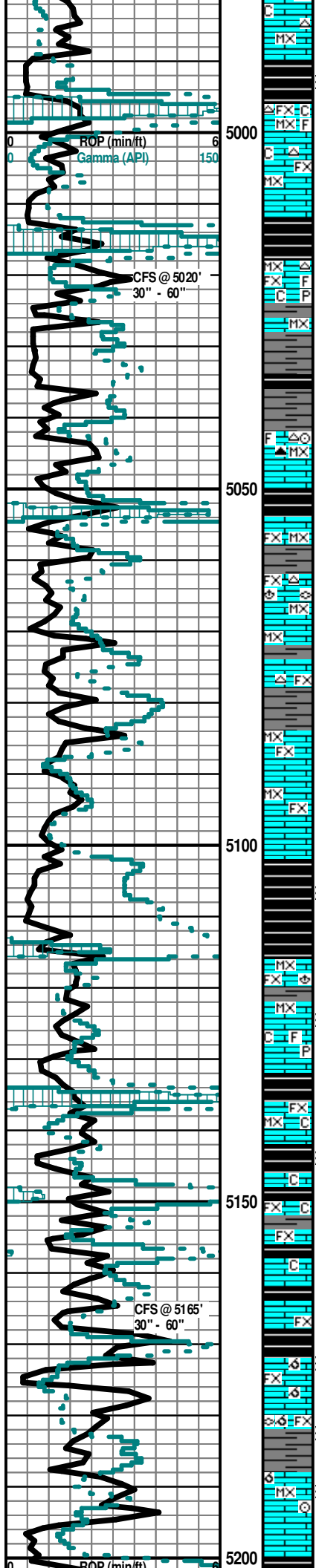
GAS KICK= 185 UNITS.

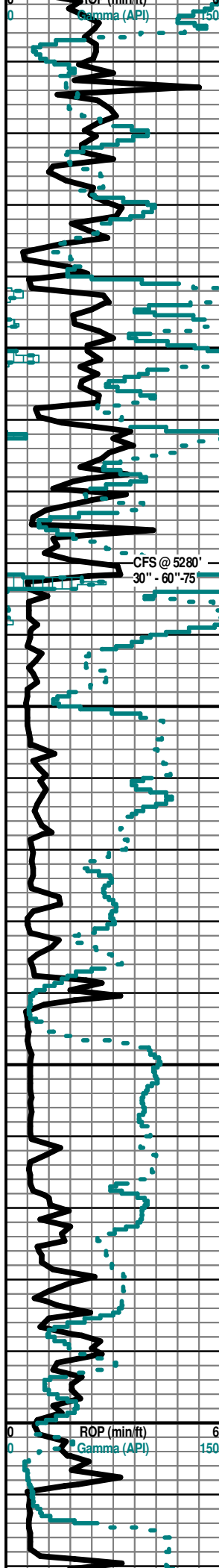
Scale Change TGI, C1-C5 450

GAS KICK= 155 UNITS.

GAS KICK= 378 UNITS

GAS KICK= 200 UNITS





Sh Blk Carb-Char-Gry Fissil Ls Wht-Crm Fxn-Microxn Mostly Micritic (Tr OOM Por AA) No Odor No Stn No Flor NS

Sh Blk Carb-Char-Gry Fissil Ls Wht-Crm Fxn-Microxn Micritic Barren No Odor No Stn No Flor NS

Sh Blk Carb-Char-Gry Fissil Ls Wht-Crm Fxn-Microxn Micritic Barren No Odor No Stn No Flor NS

Sh Blk Carb-Char-Gry Fissil Ls Crm-Tan Fxn-Microxn Micritic No Odor No Srtn No Flor NS

ATOKA SHALE 5240' (- 2380)

Sh Blk Carb-Char-Gry Fissil Ls Crm-Tan Fxn-Microxn Micritic No Odor No Srtn No Flor NS

Sh Blk Carb-Char-Gry Fissil Ls Crm-Tan Fxn-Microxn Micritic Grad Poor Pin-Pt Ixln Por Barren Cht Gry Translu-Op Shp Vit No Odor No Srtn No Flor NS

30" CFS @ 5280' Sh Blk Carb-Char-Gry Fissil Ls Crm-Tan Fxn-Microxn Micritic Grad Poor Pin-Pt Ixln Por Barren Qtz Ss FGm Tr Well Sort (w/ ? SSG & SSO) Cht Gry Translu-Op Shp Vit No Odor No Srtn No Flor NS

MORROW SHALE 5276' (- 2416)

60" CFS @ 5280' Sh Blk Carb-Char-Gry Fissil Ls Crm-Tan Fxn-Microxn Micritic Grad Poor Pin-Pt Ixln Por Barren Cht Gry Translu-Op Shp Vit No Odor No Srtn No Flor NS

Sh Blk Carb-Char-Gry-Aqua Soft-Fissil Ls Crm-Tan Fxn-Microxn Micritic Grad Poor Pin-Pt Ixln Por Barren Cht Gry Translu-Op Shp Vit No Odor No Srtn No Flor NS

FIRST MORROW SAND 5292' (- 2432)

Sh Char-Gry-Aqua-Blk Carb Fissil Ls Crm-Tan Fxn-Microxn Micritic Grad Poor Pin-Pt Ixln Por (w/ SSG & SSO) Qtz Ss Wht Frosted (w/Glacu Abd) Small-FGm Fair-Sort Friable (w/ Glacu Includ & SSG & SFO Under Heat In Wtr Drk Brn SFO & (Both Gas & Oil Do Not Flor) ? Faint Odor Tr Lt -Drk Brn Stn SSG & SSO

Qtz Ss Wht Frosted-w/Aqua (CaCO3) Matrix (w/Glacu Includ Abd) Small-FGm Clusters Fair-Sort Friable (SSG & SFO Under Heat In Wtr) Ls Crm-Tan Fxn-Microxn Micritic Grad Poor Pin-Pt Ixln Por (w/ SSG & SSO) Pyr Mass Faint-Fair Odor No Flor Hvy Drk Brn Stn SG & SO

Qtz Ss Wht-Lt Brn Frosted-w/Aqua (CaCO3) Matrix (w/Glacu Includ Abd) Small-FGm Clusters Fair-Sort Friable (w/Glacu Includ & SSG Under Heat In Wtr w/Drk Brn SFO & Both Gas & Oil Do Not Flor) Ls Crm-Tan Fxn-Microxn Micritic Grad Poor Pin-Pt Ixln Por (w/ SSG & SSO) Fos (Bry, Fuss) ? Faint-No Odor (w/Tr Lt Brn Stn) SSG & SSO

SECOND MORROW SAND 5334' (- 2474)

Qtz Ss Wht-Lt Brn Ang-SubAng VF-MGm Clear Transp Clusters Good IGran Por(w/Drk Brn Carb Includ) (w/CaCO3) Matrix & Glacu Includ) Good Sort Friable (w/Med-SG Under Heat In Wtr (w/Drk Brn-Blk Gillsontic Stn Oil & Gas Does Not Flor) Cht Org Op Shp Vit Pyr Mass Sh AA Fair Odor No Flor SG

Sh Char-Gry-Lt Gry Fissil Qtz Ss FGm (w/Glacu Includ) Well Sort Fair IGran Por (w/SG & SSO AA) Ls Crm-Wht Microcln-Fxn (w/Fos (Spicule Includ) Cht Wht-Yell Op Shp Vit No Flor SSG & SSO Stn

Qtz Ss AA Wht FGm Well-Sort Poor-Fair Intergran Por Clusters (with/CaCO3 Cmt Matrix) (w/Glacu, Gillsontic & Pyr Includ) Barren Cht Wht (w/ Blk Carb Includ) Op Sh Char-Drab Grn/Gry-Blk Carb Fissil Ls Wht-Crm Microxn Micrite Dns Barren (w/ Fos (Bry, Crin, Coral Abd)) No Odor No Flor Lt Brn Stn SSG SSO

Sh Char-Gry-Lt Gry Fissil Qtz Ss FGm (w/Glacu & Interbedded Pyr Includ) Well Sort Fair IGran Por (w/SG & SSO AA) Ls Crm-Wht Microcln-Fxn (w/Fos (Spicule Includ) Cht Wht-Yell Op Shp Vit No Flor SSG & SSO Stn

Qtz Ss Wht-Lt Brn Ang-SubAng F-MGm Well-Sort Good Intergran Por Clusters (with/CaCO3 Cmt Matrix) (w/ Gillsontic, Carb & Pyr Includ) MSG & SSO (Under Heat In Wtr) Both Gas & Oil Do Not Flor Cht Wht (w/ Blk Carb Includ) Op Vit Shp Fos (Crin) Sh Char-Drab Grn/Gry-Blk Carb Fissil Ls Wht-Crm Microxn Micrite Dns Barren Fair Odor No Flor Lt Brn-Hvy Blk Stn MSG & SSO

Ls Wht-Crm Microxn Micrite Dns Barren Qtz Ss Wht Ang-SubAng FGm Well-Sort Poor-Fair Intergran Por Clusters (w/CaCO3 Cmt Matrix) Barren Sh Char-Lt Gry-Drk Gry- Blk Carb-Aqua Fissil (w/Pyr Includ) No Odor No Flor No Stn NS

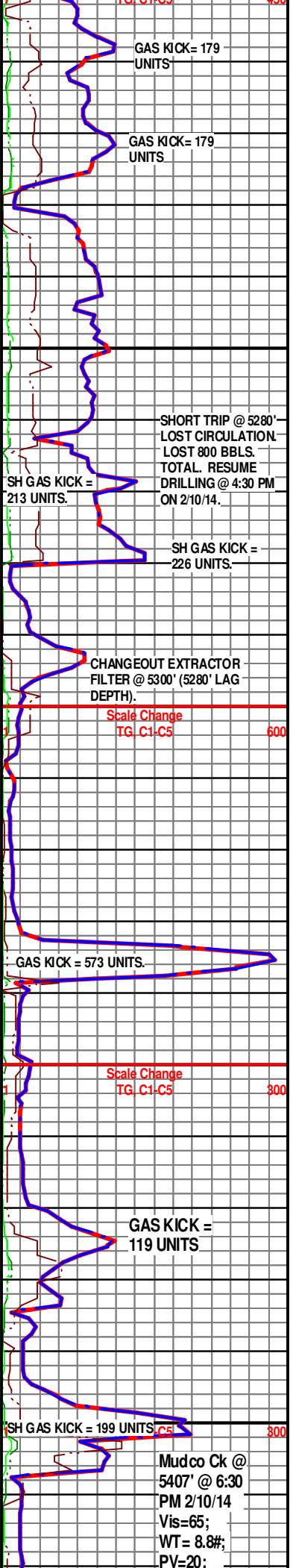
CHESTER 5386' (- 2526)

Sh Char-Lt Gry-Drk Gry- Blk Carb-Aqua-Yell Fissil (w/Pyr Includ) Ls Wht-Crm Microxn Micrite Dns Barren Qtz Ss Wht Ang-SubAng FGm Well-Sort Poor-Fair Intergran Por Clusters (w/CaCO3 Cmt Matrix) Barren No Odor No Flor No Stn NS

Ls Wht-Crm Microxn Micrite Dns Barren Qtz Ss Wht Ang-SubAng FGm Well-Sort Poor-Fair Intergran Por Clusters (w/CaCO3 Cmt Matrix) Barren Sh Char-Lt Gry-Drk Gry- Blk Carb-Aqua Fissil (w/Pyr Includ) No Odor No Flor No Stn NS

Sh Char-Lt Gry-Drk Gry- Blk Carb-Aqua Fissil (w/Pyr Includ) Ls Wht-Crm Microxn Micrite Dns Barren Qtz Ss Wht Ang-SubAng FGm Well-Sort Poor-Fair Intergran Por Clusters (w/CaCO3 Cmt Matrix) Barren Dec No Odor No Flor No Stn NS

Sh Char-Lt Gry-Drk Gry-Blk Carb-Aqua Fissil (w/Pyr Includ) Ls Wht-Crm Microxn Micrite Dns



GAS KICK= 179 UNITS

GAS KICK= 179 UNITS

SHORT TRIP @ 5280' LOST CIRCULATION. LOST 800 BBLs. TOTAL. RESUME DRILLING @ 4:30 PM ON 2/10/14.

SH GAS KICK = 213 UNITS.

SH GAS KICK = 226 UNITS.

CHANGEOUT EXTRACTOR FILTER @ 5300' (5280' LAG DEPTH).

Scale Change TG, C1-C5 600

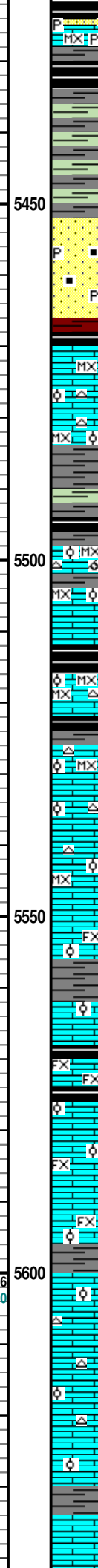
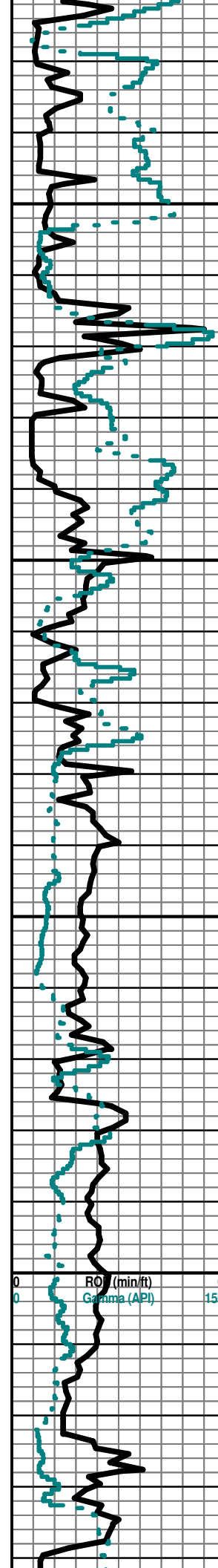
GAS KICK = 573 UNITS.

Scale Change TG, C1-C5 800

GAS KICK = 119 UNITS

SH GAS KICK = 199 UNITS

Mudco Ck @ 5407' @ 6:30 PM 2/10/14 Vis=65; WT= 8.8#; PV=20;



Sh Char-Lt Gry-Drk Gry- Blk Carb-Aqua Fissil (w/Pyr Includ) Ls Wht-Crm Microxln Micrite Dns Barren Qtz Ss Wht Ang-SubAng FGm Well-Sort Poor-Fair Intergran Por Clusters (w/CaCO3 Cmt Matrix) Barren Dec No Odor No Flor No Stn NS

Sh Char-Lt Gry-Drk Gry- Blk Carb-Aqua Fissil (w/Pyr Includ) Ls Wht-Crm Microxln Micrite Dns Barren Qtz Ss Wht Ang-SubAng FGm Well-Sort Poor-Fair Intergran Por Clusters (w/CaCO3 Cmt Matrix) Barren Dec No Odor No Flor No Stn NS

Sh Char-Lt Gry-Drk Gry- Blk Carb-Aqua Fissil (w/Pyr Includ) Ls Wht-Crm Microxln Micrite Dns Barren Qtz Ss Wht Ang-SubAng FGm Well-Sort Poor-Fair Intergran Por Clusters (w/CaCO3 Cmt Matrix) Barren Dec No Odor No Flor No Stn NS

CHESTER SAND 5453' (- 2593)

Qtz Ss Lt Brn-Drk Blk Ang-SubAnu MGrn Well-Sort Good Intergran Por Clusters (w/Sli CaCO3 Cmt Matrix) (w/Gillsonitic, Carb & Pyr Includ) GSG & GSFO Abd in Tray & (Under Heat In Wtr) Both Gas & Oil Do Not Flor Cht Wht (w/Blk Carb Includ) Op Shp Vit Sh Char-Drab Grn/Gry-Blk Carb Fissil Ls Wht-Crm Microxln Micrite Dns Barren Fair Odor No Flor Lt Brn-Hvy Blk Stn MSG & SSO

Qtz Ss Lt Brn-Drk Blk Ang-SubAnu MGrn Well-Sort Good Intergran Por AA GSG & GSFO Ls AA Cht AA Sh AA Fair Odor No Flor Lt Brn-Drk Blk Stn AA GSG & GSO

MISSISSIPPIAN STE. GEN 5469' (- 2609)

Ls Wht-Crm Microxln Micrite Dns Grad OOLPor (with/VFn Ooids "Sandy Ls" in pl) Poor Ixln-InterOOL Por Cht Wht-Lt Grn Op Shp Vit Sh Varicolored Char --Aqua-Lt Gry-Maroon-Red-Blk Carb Fissil No Odor No Flor No Stn NS

Ls Wht-Crm Microxln Micrite Dns Grad OOLPor (with/VFn Ooids "Sandy Ls" in pl) Poor Ixln-InterOOL Por Cht Wht-Lt Grn Op Shp Vit Sh Varicolored Char --Aqua-Purple-Lt Gry-Maroon-Red-Blk Carb Fissil No Odor No Flor No Stn NS

Sh Char-Gry-Blk Carb Ls Crm-Tan Microxln Dns Micrite (w/Pyr Includ Barren Grad Poor Pin-Pt Ixln Por Barren Grad Poor OOL Por AA (Tr Only) Cht Tan Op Shp Vit No Odor No Flor No Stn NS

Ls Wht-Crm-Gry Microxln Micrite Dns Grad OOLPor (with/VF Small Ooids in pl "Sandy Carb Ls") Fair Ixln/InterOOL Por Grad Poor OOM Por Cht Wht-Lt Grn Op Shp Vit Sh Varicolored Char--Aqua-Lt Gry- Maroon-Red-Blk Carb Soft-Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Gry Microxln Micrite Dns Grad OOLPor (with/VFn Ooids in pl "Sandy Carb Ls") Fair Ixln/InterOOL Por (w/ Gillsonitic Brn-Blk Stn) Cht Wht-Lt Grn Op Shp Vit Sh Varicolored Char--Aqua-Lt Gry- Maroon-Red-Blk Carb Soft-Fissil No Odor No Flor No Stn NS

Ls Wht-Lt Grn Fxln Micrite Dns Grad OOL Por (with/Small Ooids "Sandy Ls" in pl) Poor Ixln-InterOOL Por Cht Wht Trip (w/ Gillsonitic Brn-Blk Stn) Translu Op Shp Vit Sh Vari-Colored Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Aqua Microxln OOL Por (with/V Small Ooids in pl) "Sandy OOL Ls" in pl) Poor InterOOL Por (w/ Gillsonitic Brn-Blk Stn) Grad Micrite Cht Wht-Tan Op Shp Vit Sh Char-Gry-Blk Carb Fissil No Odor No Flor No Stn NS

Ls Wht-Crm-Aqua Microxln OOL Por (with/V Small Ooids in pl) "Sandy OOL Ls" in pl) Poor InterOOL Por Grad Micrite Cht Wht-Tan Op Shp Vit Sh Char-Gry-Blk Carb Fissil No Odor No Flor No Stn NS

Ls Wht-Lt Crm- Grn Fxln OOL Por (w/Small Ooids "Sandy Ls") Poor InterOOL Por Sh AA Fissil No Odor No Flor No Stn NS

Ls Wht-Lt Crm- Grn Fxln OOL Por (w/Small Ooids "Sandy Ls") Poor InterOOL Por Sh AA Fissil No Odor No Flor No Stn NS

MISS. ST. LOUIS "A" 5576' (- 2740)

Ls Wht-Lt Crm- Grn Fxln OOL Por (w/Small Ooids "Sandy Ls") Poor InterOOL Por Sh AA Fissil No Odor No Flor No Stn NS

Ls Wht-Lt Crm- Grn Fxln OOL Por (w/Small Ooids "Sandy Ls") Poor InterOOL Por Sh AA Fissil No Odor No Flor No Stn NS

Ls Wht-Lt Crm- Grn Fxln OOL Por (w/Small Ooids "Sandy Ls") Poor InterOOL Por Sh AA Fissil No Odor No Flor No Stn NS

Ls Wht Fxln Micritic Dns Grad Poor-Fair OOL Por (with Small/Med OOids in pl) Poor InterOOL Por (w/Poor Small OOid in pl) Poor Leaching Poor-Fair Develop Friable Grad Ls Brn OOM Por Poor InterOOM Por Barren Cht Wht Op Shp Vit Pyr Mass Chalk Sh Varicolored Aqua-Char-Gry-Maroon AA No Flor Fair Inc Odor

Ls Wht Fxln Micritic Dns Grad Poor-Fair OOL Por (with Small/Med OOids in pl) Poor InterOOL Por (w/Poor Small OOid in pl) Poor Leaching Poor-Fair Develop Friable Grad Ls Brn OOM Por Poor InterOOM Por Barren Cht Wht Op Shp Vit Pyr Mass Chalk Sh Varicolored Aqua-Char-Gry-Maroon AA No Flor Fair Inc Odor

Ls Wht Fxln Micritic Dns Grad Poor-Fair OOL Por (with Small/Med OOids in pl) Poor InterOOL Por (w/Poor Small OOid in pl) Poor Leaching Poor-Fair Develop Friable Grad Ls Brn OOM Por Poor InterOOM Por Barren Cht Wht Op Shp Vit Pyr Mass Chalk Sh Varicolored Aqua-Char-Gry-Maroon AA No Flor Fair Inc Odor

MISS. ST. LOUIS "B" 5634' (- 2774)

LOST RETURNS

YP= 20;
WL=7.6;
Cake= 1;
Chl=1600;
Cal =20;
Sol=3.5%.
LCM=14#;
DMC=\$
11,852.90;
CMC=\$
30,618.55

GAS KICK = 267 UNITS

Scale Change
TG, C1-C5 150

Mudco Ck
@ 5671' @ 150
7:15 AM
2/11/14
Vis=65;
WT= 8.8#;
PV=17;
YP= 20.
WL=7.6;
Cake= 1;
Chl=1400;
Cal =20;
Sol=3.6%.
LCM=21#;
DMC=\$

5650

5700

R.T.D. = 5671" (- 2811)
L.T.D. = 5676' (- 2816)

5750



LOST RETURNS

LOST RETURNS

LOST RETURNS LOST CIRCULATION AT 5655': 300 Bbls.
TOTAL LOST @ 5655'.

Electric Logs Run: By Weatherford Logging:
Induction; Compensated Density-Neutron; Microresistivity.

Geologist Left Location @ 10:00 PM on 2/11/13

Dual

4,546.15;
CMC=\$
35,164.70

GAS KICK =
58 UNITS

