

# LITHOLOGY STRIP LOG

## WellSight Systems

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

Well Name: Rosenberger #3-29  
Location: 530' FNL & 1865' FEL, Sec. 29-T27S-R18W, Kiowa Co., KS.  
Licence Number: 15-097-21798-00-00  
Spud Date: 7/23/2014  
Surface Coordinates: 530' FNL & 1865' FEL, Sec. 29-T27S-R18W  
Region: Einsel Field  
Drilling Completed: 7/30/2014

Bottom Hole Same as Above  
Coordinates:  
Ground Elevation (ft): 2190' K.B. Elevation (ft): 2203'  
Logged Interval (ft): 3900' To: 4805' Total Depth (ft): 4805'  
Formation: Kinderhook at Total Depth  
Type of Drilling Fluid: Freshwater/Gel to 3295'; Chemical Gel 3295' to 4805'

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

### OPERATOR

Company: Herman L. Loeb, LLC.  
Address: P.O. Box 838  
Lawrenceville, IL. 62439-0838

### GEOLOGIST

Name: Jon D. Christensen  
Company: Consulting Petroleum Geologist  
Address: 9002 W. Silver Hollow St.  
Wichita, KS. 67205-8856

### Cores

None Taken

### DSTs

DST #1(Kansas City 'I' Upper Porosity) 4396' - 4416'(Corrected Depths to Log) Test Times 15"-45"-30"-60" IFP Weak Surface Blow, FFP No Blow, no Blowback on SI's; REC: 10' Drilling mud, no shows; IFP 38-40#, ISIP 824#, FFP 24-26#, FSIP 713#, IHP 2190#, FHP 2162#, BHT 117 Deg. F.

DST #2(Kansas City 'J' zone) 4442' - 4464'(Corrected Depths to Log) Test Times 15"-45"-45"-90" IFP Strong Blow BOB/4 Min., 6" Blowback on ISI, FFP Strong Blow BOB/1 Min., 3" Blowback on FSI, no Gas to Surface; REC: 1765' Rich Gas in Pipe, 150' G&OCWM(23%G, 22%O, 15%W, 40%M), 615' SW, CI 74,000, Mud 6000; IFP 120-176#, ISIP 1235#, FFP 211-373#, FSIP 1215#, IHP 2179#, FHP 2172#, BHT 126 Deg. F.

DST #3(Miss. Chert) 4741' - 4796'(Corrected Depths to Log) Test Times 15"-45"-45"-90" IFP Weak Blow built to 3", FFP Weak 3" Blow, no Blowback on SI's; REC: 60' Gas in Pipe, 10' Drilling Mud, no shows; IFP 28-21#, ISIP 75#, FFP 21-27#, FSIP 102#, IHP 2323#, FHP 2265#, BHT 122 Deg. F.

## Comments

7/23/14 MIRU Sterling Drilling Co. Rig #5, Spud at 5:30 PM., 7/24/14 Drilling at 575'; 7/25/14 Drilling at 1190'; 7/26/14 Drilling at 3230'; 7/27/14 Drilling at 4260'; 7/28/14 Drilling at 4440'; 7/29/14 Drilling at 4625'; 7/30/14 TD. 4790' - TIH after DST #3 - reached RTD. of 4805' at 11:30 AM., LTD.4814'; 7/31/14 RTD. 4805' - P & A.

Set new 8 5/8"(23#) Surface Casing at 626' KB. with 400 sacks cement(Basic Energy Services). Cement did Circulate. PD. at 12:30 PM. on 7/24/14.

Surveys: 2.0 Deg. at 630'(Surface Casing); 0.50 Deg. at 714'(Bit Trip); 0.75 Deg. at 4210'(Bit Trip); 0.75 Deg. at 4410'(DST #1); 1.0 Deg. at 4790'(DST #3).


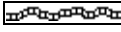
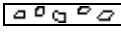
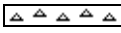
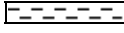







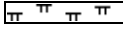

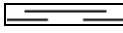
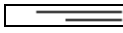
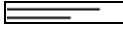



Pipe Strap at 4210'(Bit Trip): Strap 0.65' Short to the Board, no correction made to the Board.

After review of the Halliburton Logs, DST data and apparent lack of commercial amounts of recoverable hydrocarbons, the operator elected to Plug and Abandon the #3-29 Rosenberger at RTD. 4805' on 7/31/14.








































































LOG TOPS: Chase 2440(-237), Stotler Lmst. 3386(-1183), Howard 3590(-1387), Heebner Shale 4034(-1831), Toronto 4051(-1848), Brown Lmst. 4188(-1985), Lansing 'A' 4196(-1993), Lansing/K.C. 'H' 4357(-2154), K.C. 'I' 4407(-2204), Stark Shale 4494(-2291), Hertha 4554(-2351), Base Kansas City 4584(-2381), Marmaton 4632(-2429), Pawnee 4678(-2475), Cherokee Shale 4718(-2515), Miss. Chert 4764(-2561), Kinderhook Shale 4804(-2601).

NOTE: This log was shifted downward by 5' - 6' for correlation purposes with the Halliburton Logs.

## ROCK TYPES

 Anhy  Bent  Brec  Cht	 Clyst  Coal  Congl  Dol	 Gyp  Igne  Lmst  Meta	 Mrlst  Salt  Shale  Shcol	 Shgy  Sltst  Ss  Till
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## ACCESSORIES

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

- POROSITY**  
 [E] Earthy  
 [F] Fenest  
 [X] Fracture  
 [I] Inter  
 [M] Moldic  
 [O] Organic  
 [P] Pinpoint

- [V] Vuggy  
**SORTING**  
 [W] Well  
 [M] Moderate  
 [P] Poor

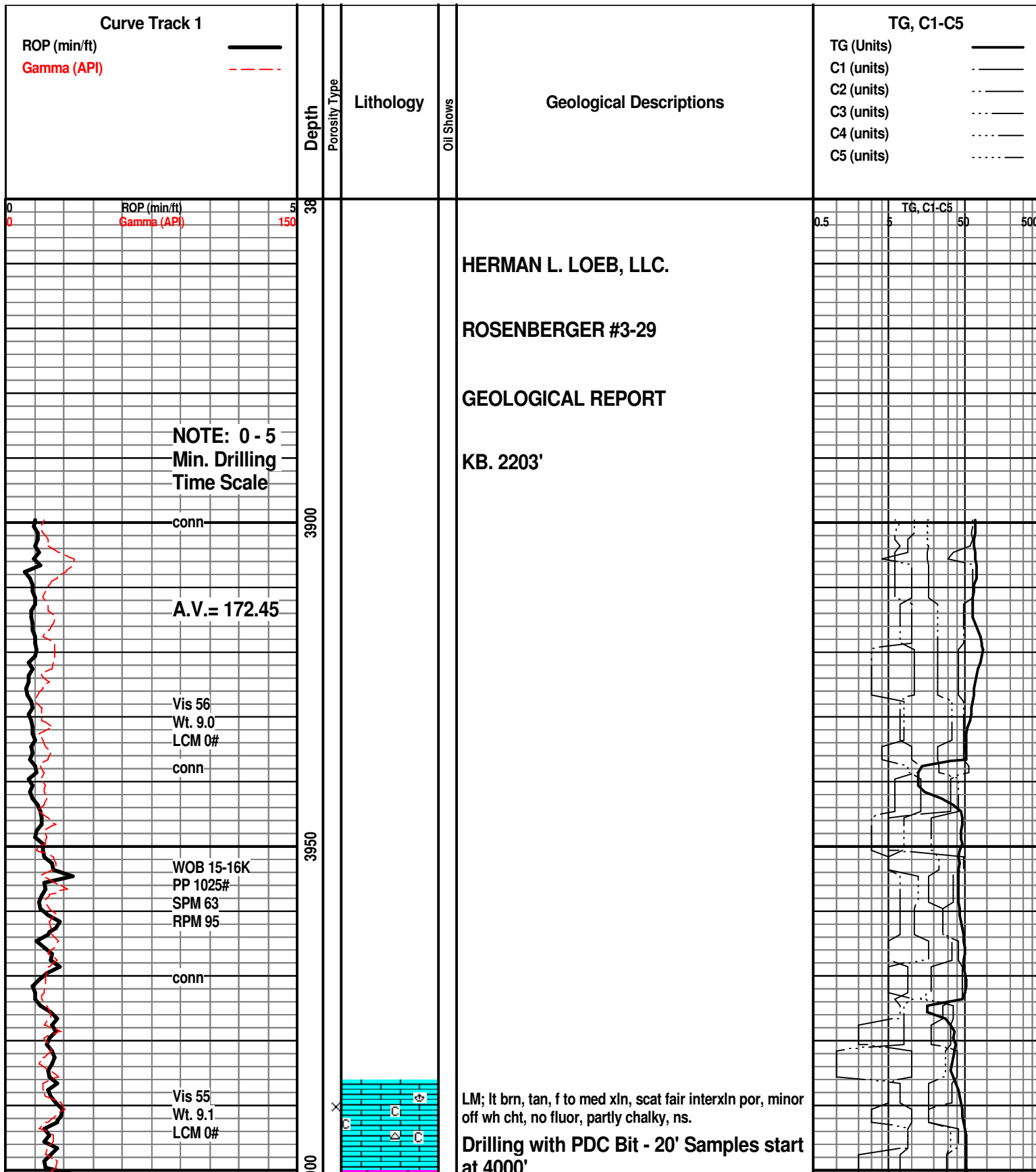
- ROUNDING**  
 [R] Rounded  
 [S] Subrnd  
 [a] Subang  
 [A] Angular

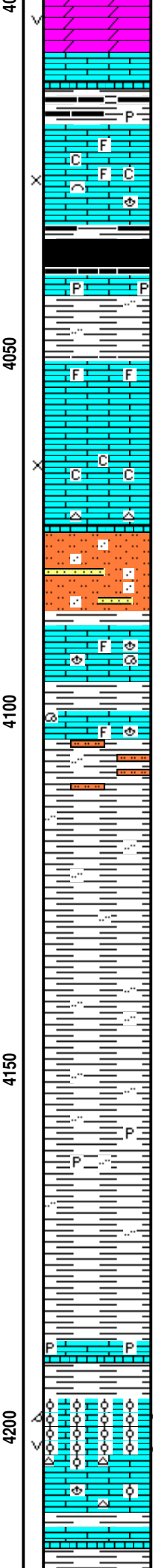
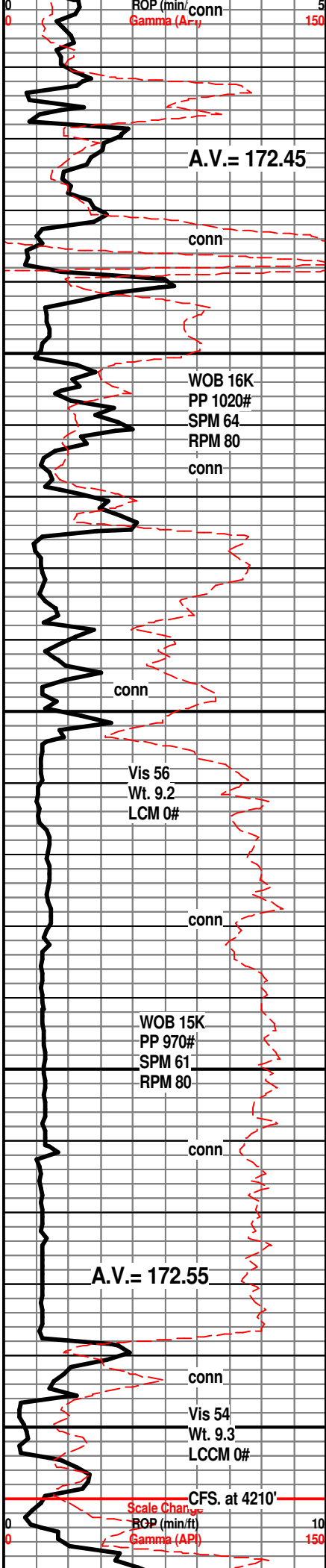
- [S] Spotted  
 [Q] Ques  
 [D] Dead

- EVENT**  
 [Rft] Rft  
 [Sd] Sidewall

- INTERVAL**  
 [C] Core  
 [D] Dst

- OIL SHOW**  
 [E] Even





DOL; lt brn, sucrosic, some lmy, fair vug por, lt yel fluor, ns.

SH; dk gy, blk, carb ip, occ pyr

LM; lt brn, gy brn, foss ip, scat poor interpart por, minor chalky mtx, dull yel fluor, ns.

**HEEBNER SHALE 4034(-1831)**  
 SH; blk, carb, trc gas  
 LM; med/dk brn, hd, micritic, occ pyr

SH; grn, smooth, rarely silty

**TORONTO 4051(-1848)**  
 LM; tan to off wh, foss ip, most well cem, blocky ip, poor to no vis por, dull yel fluor, ns.

LM; lt gy, lt brn, off wh, f xln, fair interxln por w/scat spar calc xtals, minor chalky mtx, dull yel fluor, no vis stn, rare off wh cht, ns.

**DOUGLAS SHALE 4075(-1872)**  
 SLTST; lt gy, mica, sandy ip w/occ vf gr qtz ss interbdd

LM; med brn, foss ip, blocky, hd, no vis por, scat lt yel fluor, ns.

SH; med gy grn, smooth

LM; med brn, med gy, gritty - silty text, foss ip, hd, no vis por

SH; lt to med gy, platy, occ silty

SH; lt to med gy, smooth, occ silty

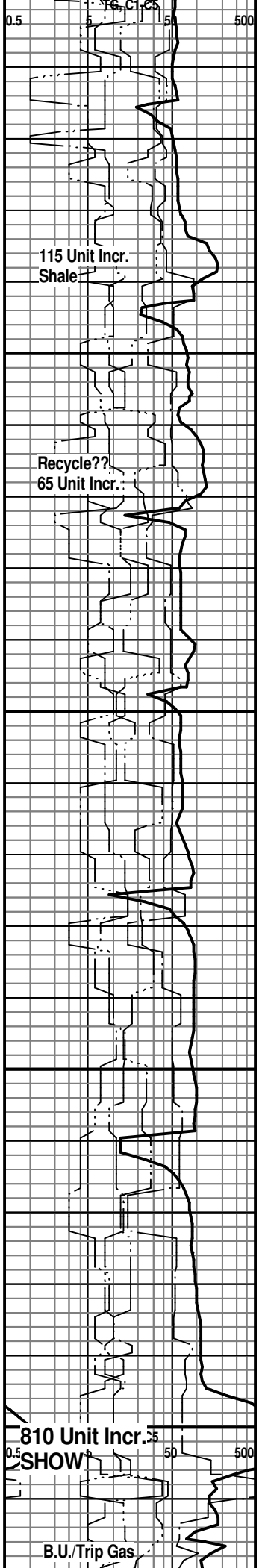
SH; med gy, smooth, platy, occ silty, rare pyr

SH; med gy, smooth, platy

**BROWN LMST. 4188(-1985)**  
 LM; med brn, dense, pyr ip, hd

**LANSING 'A' 4196(-1993)**  
 LM; med brn, oolitic, med to lrg. moldic por, brittle, trc vug por, sev. gas bubbles, spotted lt brn oil stn, SSFO, fair odor, poor to fair cut, some barren por.

**Bit Trip at 4210' - TIH with Button Bit**



WOB 38-40K  
PP 1020#  
SPM 58  
RPM 75  
A.V.= 168.00  
conn

Vis 58  
Wt. 9.3  
LCM 0#

conn

MudCo. Mud  
Check at 4280'  
Vis 60 Wt. 9.7  
WL 10.4 CI 7000  
PH 10.0 LCM 0#

conn

WOB 41K  
PP 960#  
SPM 54  
RPM 85

conn

Vis 52  
Wt. 9.4  
LCM 0#

A.V.= 163.75  
at 54 SPM

conn

WOB 40K  
PP 990#  
SPM 54  
RPM 82

conn

DST #1  
K.C. 'I' Zone  
4396' - 4416'  
Corrected  
CFS. at 4416'

conn  
CFS. at 4436'

LANSING 'B' 4222(-2019)

LM; tan to buff, foss ip, most tite - well cem, no vis por, ns.

LM; off wh, lt gy, flxn w/fair vug por, scat soft chalk and chalky mtx, lt yel fluor, no vis stn, lt yel fluor, ns.

SH; med gy, platy, occ foss

LM; tan to lt brn, med to cse xln, scat foss mat, occ spar calc xtals, fair interxln por, minor chalky mtx, no fluor, no stn or odor, ns.

LM; tan to buff, micritic, cherty ip, tite

SH; med gy, platy, foss ip.

LM; tan to cream, f to med xln, fair interxln por, trc v. spotted med brn stn, v. faint odor, scat lt yel fluor, no apparent gas kick

LM; lt to med brn, hd, cherty ip, interbdd highly foss - pelletal lms, fair interpart por, lt yel fluor, no stn or odor, ns.

DOL; off wh, tan, sucrosic text, scat small vug por, lt yel min fluor, no stn, ns.

LM; off wh, buff, med xln w/fair p-p and vug por, leached ip, scat cse spar calc xtals, dull yel fluor, no vis stn, poss faint odor, no apparent gas kick

LM; off wh, buff, tan, f to med xln, fair p-p and small vug por, chalky ip, dull yel fluor, ns.

SH; med gy, gy grn, foss ip.

LANSING/K.C. 'H' 4357(-2154)

LM; tan to lt brn, foss - oolitic, med size molds, brittle, gd oomoldic w/vug por, med yel min fluor, no vis stn, no odor, quest. gas bubbles

LM; lt brn, blocky, dense, scat foss mat.

LM; lt brn, foss ip, most well cem, trc poor interpart por, no fluor, ns.

LM; tan to off wh, buff, rarely foss, most dense, scat off wh cht, no vis por, no fluor, ns.

KANSAS CITY 'I' 4407(-2204)

LM; tan to lt brn, foss - finely pelletal w/scat ooids, weakly cem - poor/fair interpart por, spotted lt brn stn, faint odor, med yel/rare brite yel fluor, trc F.O. & gas bubbles, chalky mtx ip.

DST #1: Kansas City 'I' 4396' - 4416'  
LM; lt brn, gran - med xln, foss ip w/scat pellets and hash, fair to gd p-p and vug por, strong odor, spotted med/brite yel fluor, spotted lt brn stn, trc FO. w/few gas bubbles, very chalky mtx, barren por in bottom of zone

LM; tan to lt brn, foss ip, scat fair vug por, poss lt brn

20 Unit Incr.

15 Unit Incr. SHOW

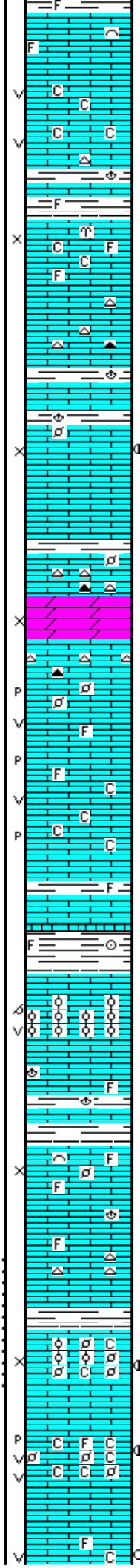
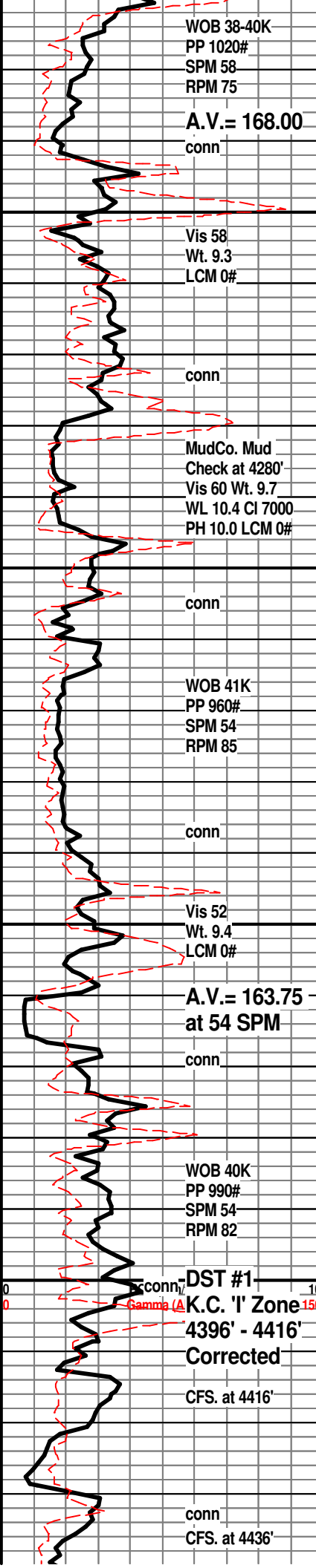
25 Unit Incr. SHOW

4250

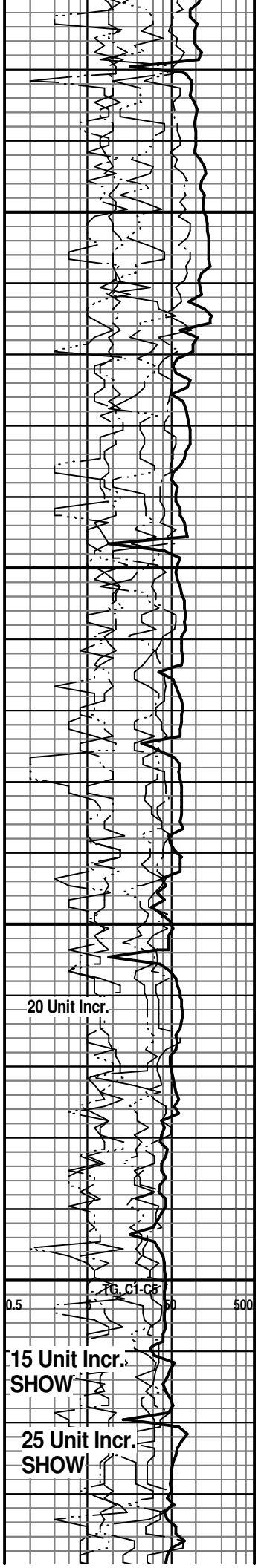
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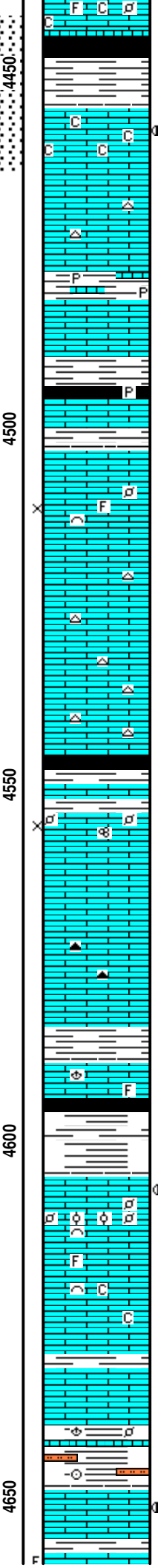
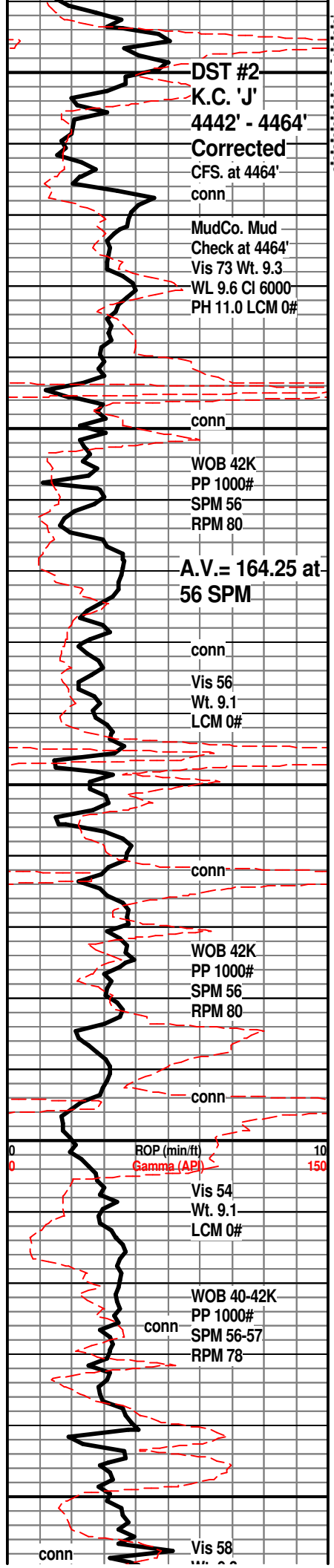
4350

4400



Text descriptions of lithology and well logs for various units, including Lansing 'B', Lansing/K.C. 'H', and Kansas City 'I'. Each unit description includes lithological characteristics, porosity, and other well log data.





stn, v. faint or (poss above), dull yel to no fluor, quest. oil stn, no gas kick, occ chalky

SH; dk gy, blk, platy

**KANSAS CITY 'J' 4455(-2252)**  
 LM; tan, off wh, v. chalky ip, much brite yel fluor, fair p-p and small vug por, foss w/small pellets and ooids, fair oil odor, sev. pcs w/lt brn spotted stn, gas bubbles

**DST #2: Kansas City 'J' 4442' - 4464'**  
**Corrected Depths to Log**

SH; med gy, gy grn, pyr ip, lmy

LM; med brn, gy brn, dense, argil ip.

**STARK SHALE 4494(-2291)**  
 SH; blk, carb ip, platy, occ pyr

**SWOPE 4503(-2300)**  
 LM; off wh, wh, buff, fxln w/scat foss mat, occ poor interpart/interxln por, dull yel fluor, no stn or odor, ns.

LM; off wh, buff, hd, micritic, scat off wh/gy cht, tite

LM; lt to med brn, most dense, scat tan/off wh foss cht, no vis por, no fluor, ns.

SH; blk, carb, platy

**HERTHA 4554(-2351)**  
 LM; tan to buff, off wh, fxln w/occ sucrosic text, rare foss mat, fair interxln por, lt yel fluor, no vis stn, no odor, no gas kick

LM; tan to off wh, buff, fxln w/interbdd wh cht, no vis por, ns.

LM; med to dk brn, gy brn, hd, litho ip, tite, rare amber/smoky cht

**BASE KANSAS CITY 4584(-2381)**  
 SH; gy grn, platy, some flakey

LM; lt to med brn, foss ip, hd

SH; blk, med gy grn, some varic, silty ip.

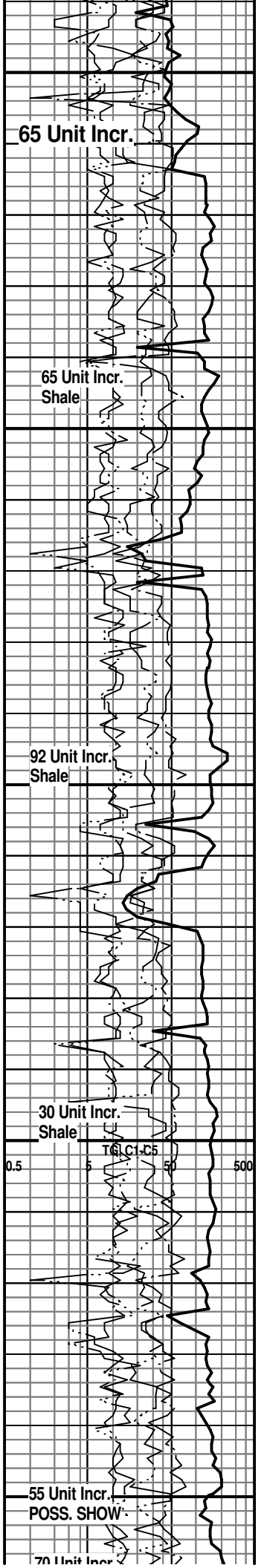
**PLEASANTON 4605(-2402)**  
 LM; tan to lt brn, occ grn argil lmst, foss w/scat well cem foss pellets and oolites, some hash, lt yel min fluor, few pcs w/dk brn spotted oil stn, no live shows

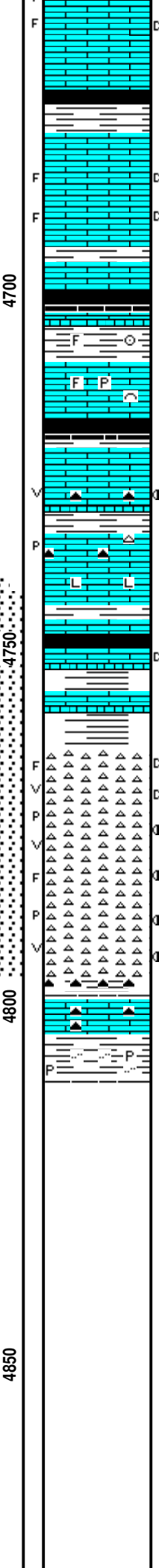
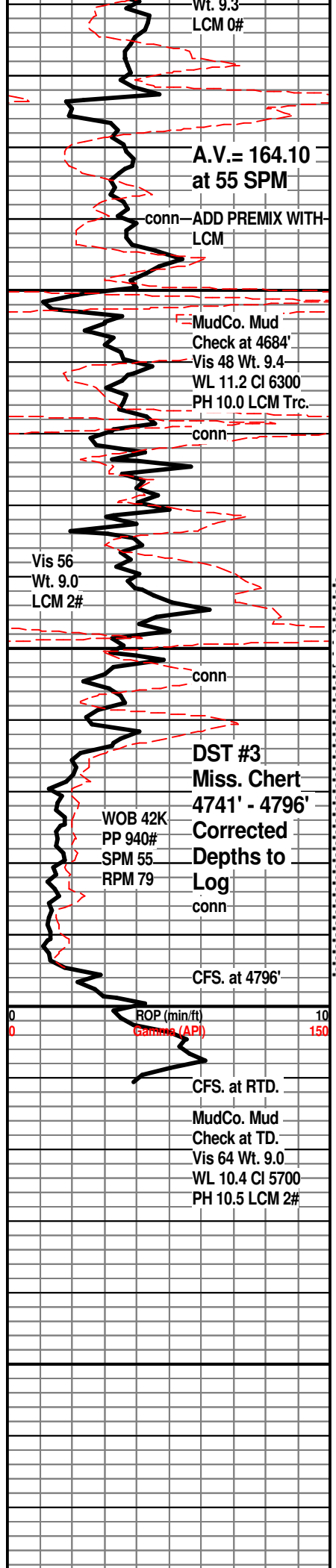
LM; lt brn, tan, foss - fxln, most dense, rare chalky mtx, dull yel min fluor, no stn or odor, ns.

**MARMATON 4632(-2429)**  
 LM; lt brn, pale gy grn, hd, blocky, argil ip, tite

SH; varic, rust red, grn, yel, foss ip, occ silty w/interbdd sltst.

LM; tan to lt brn, fxln, poss frags w/trc edge stn, dull yel fluor, no vis gas, weak/no cut





LM; lt to med brn, most dense - mictitic, poss frags, scat amber/brn cht, no vis por, few pcs w/blk tar/gilsonite, no live shows

SH; dk gy, blk, platy

**PAWNEE 4678(-2475)**

LM; tan to lt brn, fxln, most dense, frags w/edge calc xtals and dead oil/tar stn, lt yel fluor, trc oily sheen on few pcs, no odor, no app. gas kick

LM; lt to med brn, hd, micritic, blocky

SH; blk, carb, blocky, trc gas

SH; grn, gy grn, foss ip, firm

LM; tan to buff, lt brn, foss ip, most well cem, rare pyr, no vis por, no fluor, ns.

**CHEROKEE SHALE 4718(-2515)**

SH; blk, dk gy, some varic sh, platy

LM; lt gy, lt brn, fxln, most dense, scat lt to med yel fluor, interbdd org/brn cht w/vug por, occ p-p por also, scat dk brn oil stn, faint odor, fair cut

LM; tan to lt brn, hd, blocky, most micritic, some litho, no vis por, no fluor, ns.

SH; blk, carb ip, platy

LM; lt brn, fxln, poor vis interxln por, few pcs w/dk brn - blk stn, looks tite, no fluor, no apparent gas kick

**MISS. CHERT 4764(-2561)**

CHT; wh, off wh, lt gy/blue, pale org, fresh and trip, frags w/edge stn, much blk tar/dead oil, few gas bubbles, v. faint odor

CHT; wh, off wh, most fresh - sharp, weathered edges w/live oil stn, scat med/brite yel fluor, SSFO, few gas bubbles, frags, poor to fair p-p and vug por in weathered areas

CHT; wh, off wh, opaque, fresh and trip, incr. trip cht w/poor to fair p-p and vug por, spotted w/rare even med brn stn, SSFO, gas bubb., med w/v. rare brite yel fluor, faint odor

**DST #3: Miss. Chert 4741' - 4796'**

LM; grn, red, med xln, red/org fresh cht, oxidized - weathered, nodular, red/brn shales

**KINDERHOOK SHALE 4804(-2601)**

SH; med gy, gy grn, silty, occ pyr

**RTD. 4805' at 11:30 AM. 7/30/14**

**LTD. 4814'**

**Halliburton ACRT, NEU/DEN w/PE, Microlog**

**NOTE: This log was shifted downward by 5' - 6' for correlation purposes with the Halliburton Logs.**

