

# LITHOLOGY STRIP LOG

## WellSight Systems

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

Well Name: #2-3 Aaron Einsel  
Location: 500' FNL & 500' FWL, Sec. 3-T28S-R18W, Kiowa Co., KS.  
Licence Number: 15-097-21681-0000 Region: Greensburg SW  
Spud Date: 2/4/2011 Drilling Completed: 2/12/2011  
Surface Coordinates: 500' FNL & 500' FWL, Sec. 3-T28S-R18W

Bottom Hole Same as above  
Coordinates:  
Ground Elevation (ft): 2203' K.B. Elevation (ft): 2212'  
Logged Interval (ft): 3600' To: 4854' Total Depth (ft): 4854'  
Formation: Kinderhook at Total Depth  
Type of Drilling Fluid: Freshwater/Gel to 3089'; Chemical Gel 3089' to TD.

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

### OPERATOR

Company: Strata Exploration, Inc.  
Address: P.O. Box 401  
Fairfield, IL. 62837-0401

### 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(Lansing 'A') 4220' - 4238' Test Times 20"-45"-45"-90" IFP Fair Blow built to 10", FFP Fair Blow built to BOB/25", No Blowback on SI's; REC: 360' GIP, 45' GOCWM(15%G, 20%O, 5%W, 60%M), 25' GOCWM(10%G, 10%O, 40%W, 40%M), CI 36,000 / Mud 3,000; IFP 17-25#, ISIP 1239#, FFP 30-48#, FSIP 1318#, IHP 1992#, FHP 1997#, BHT 112 Deg. F.

DST #2(Miss. Chert) 4766' - 4818' Test Times 15"-45"-45"-90" IFP Strong Blow BOB/30 Sec. GTS/7", FFP GTS Throughout Stabilized at 20# on 1/2" choke = 232 MCFGPD; REC: 280' Emulsified GOCM(15%G, 5%O, 80%M), No Water; IFP 116-116#, ISIP 1499#, FFP 87-119#, FSIP 1499#, IHP 2347#, FHP 2312#, BHT 114 Deg. F.

### Comments

2/4/11 MIRU Sterling Drilling Co. Rig #4, Spud at 10:30 AM.; 2/5/11 TD. 525' - WOC; 2/6/11 Drilling at 2050'; 2/7/11 Drilling at 2970'; 2/8/11 Drilling at 3450'; 2/9/11 Drilling at 4070'; 2/10/11 TD. 4238' - DST #1; 2/11/11 Drilling at 4530'; 2/12/11 TD. 4818' - TOH for DST #2; 2/13/11 RTD. 4854' = LTD. 4854' -Logging;

Set 8 5/8"(23#) Surface Casing at 523' w/400 sx/(Basic Energy Services). Cement Did Circulate. PD. 11:45 PM. 2/5/11.

Surveys: 0.5 Degree at 518'(Surface Casing); 1 Deg. at 4238'(DST #1); 1 Deg. at 4818'(DST #2).


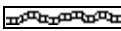
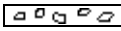
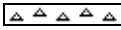
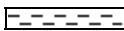







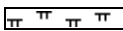

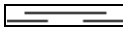
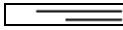
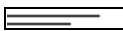



Pipe Strap at 4238'(DST #1): Strap 2.24' Long to the Board, no correction made to the Board.

NOTE: Halliburton's Density tool stopped working at 4450'. Attempts to fix the tool problems failed.








































































After review of the Halliburton logs, DST data and positive shows of commercial amounts of hydrocarbons, the operator elected to set new 5 1/2" 15.5# Production casing for completion in the Mississippi Chert.

### LOG TOPS:
























### 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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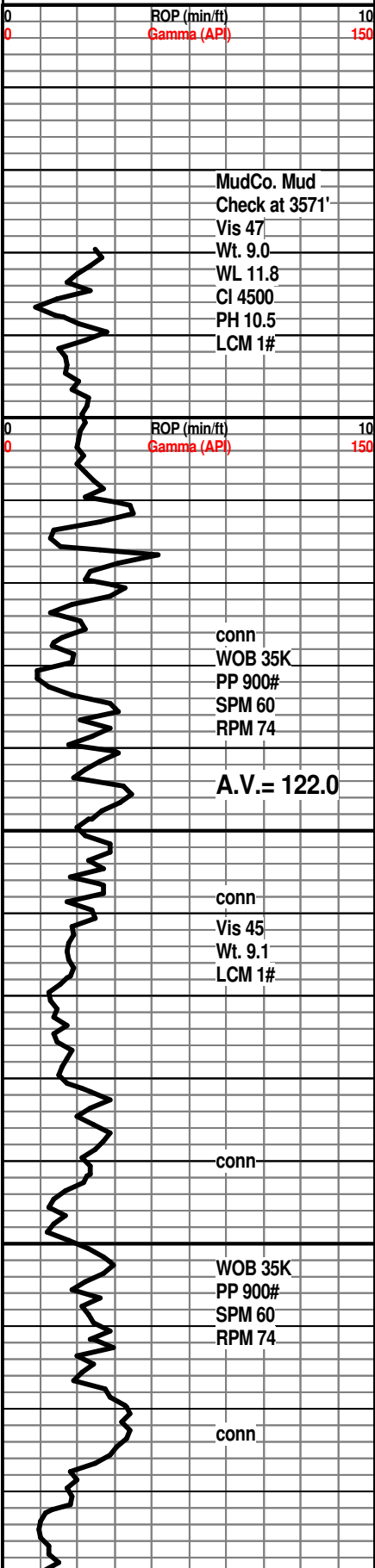
### OTHER SYMBOLS

<b>POROSITY</b>  Earthy  Fenest  Fracture  Inter  Moldic  Organic  Pinpoint	 Vuggy  <b>SORTING</b>  Well  Moderate  Poor	<b>ROUNDING</b>  Rounded  Subrnd  Subang  Angular  <b>OIL SHOW</b>  Even	 Spotted  Ques  Dead  <b>INTERVAL</b>  Core  Dst	<b>EVENT</b>  Rft  Sidewall
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**Curve Track 1**

ROP (min/ft) ———

Gamma (API) - - - - -



MudCo. Mud  
Check at 3571'  
Vis 47  
Wt. 9.0  
WL 11.8  
CI 4500  
PH 10.5  
LCM 1#

conn  
WOB 35K  
PP 900#  
SPM 60  
RPM 74

**A.V.= 122.0**

conn  
Vis 45  
Wt. 9.1  
LCM 1#

conn

WOB 35K  
PP 900#  
SPM 60  
RPM 74

conn

**Depth**

Porosity Type

**Lithology**

Oil Shows

**Geological Descriptions**

**TG, C1-C5**

TG (Units) ———

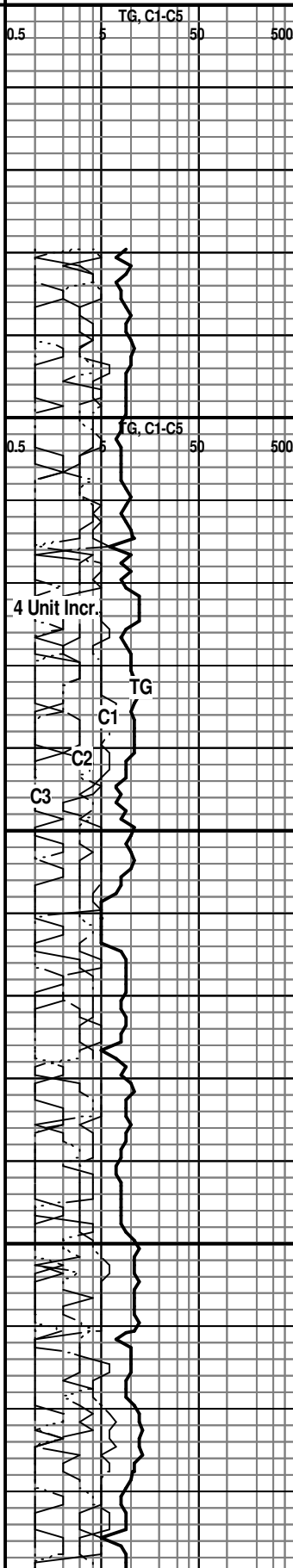
C1 (units) - - - - -

C2 (units) . . . . .

C3 (units) . . . . .

C4 (units) . . . . .

C5 (units) . . . . .



**STRATA EXPLORATION, INC.**

**#2-3 AARON EINSEL**

**GEOLOGICAL REPORT**

**KB. 2211'**

**10' Wet and Dry Samples at 3600'**

SH; med gy to grn, silty to occ sandy, firm

LM; med to dk brn, dense, foss ip, tite

**HOWARD 3616(-1404)**

LM; wh to off wh, rare cream - buff, foss, scat gd interpart w/scat vug por, oolitic/pelletal, dull yel min fluor, occ soft chalky mtx, no stn or odor, no gas kick, ns.

LM; tan to cream, foss ip, occ wh fresh cht, dull yel min fluor only, poor to no vis por, ns.

LM; tan to cream, buff, foss, most well cem, scat dull to lt yel min fluor, no stn, no gas kick, ns.

LM; tan to lt brn, gran text, finely pelletal ip, scat cse opaque spar calc xtals, fair interxln/interpart por, dull yel min fluor only, no stn or odor, ns.

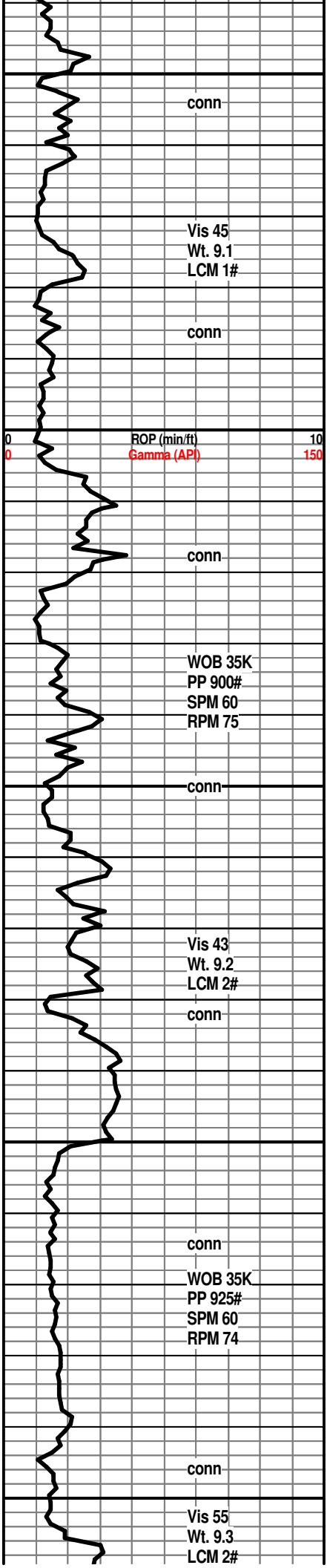
LM; tan to lt brn, occ buff, fxln w/scat foss mat, most well cem, rarely interbdd off wh to lt gy cht, no stn or odor, ns.

SH; dk gy to blk, fiss, carb ip.

**TOPEKA 3713(-1501)**

LM; med brn, foss ip, most well cem, blocky, no vis por, ns.

LM; tan to off wh, buff, f to med xln, gd vis interxln por, scat soft chalky mtx, dull yel min fluor only, no stn, ns.



conn

Vis 45  
Wt. 9.1  
LCM 1#

conn

0

10

150

conn

WOB 35K  
PP 900#  
SPM 60  
RPM 75

conn

Vis 43  
Wt. 9.2  
LCM 2#

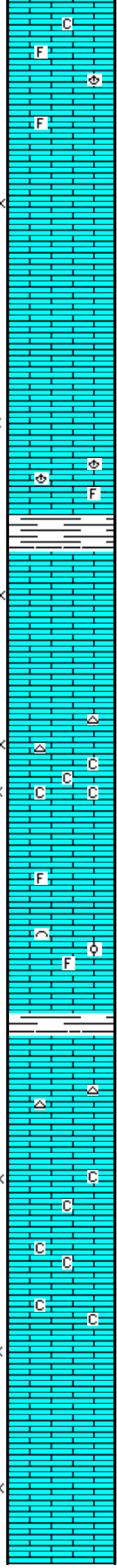
conn

conn

WOB 35K  
PP 925#  
SPM 60  
RPM 74

conn

Vis 55  
Wt. 9.3  
LCM 2#



LM; tan to buff, lt brn, fxln, scat foss mat, most well cem, blocky ip, dull yel fluor, ns.

LM; tan to lt brn, fxln to occ sucrosic text, gd interxn por, no fluor, no stn or odor, ns.

LM; tan to buff, lt brn, foss ip, most fxln, fair to gd interxn por, dull yel min fluor only, ns.

LM; med to dk brn, foss, hd, blocky

SH; med to dk gy, fiss

LM; tan to lt brn, fxln to occ sucrosic text, gd interxn por, rare cse spar calc xtals, dull yel min fluor only, ns.

LM; tan to buff, off wh, fair interxn por ip, interbdd wh cherty lmst, occ soft chalky mtx, no fluor, ns.

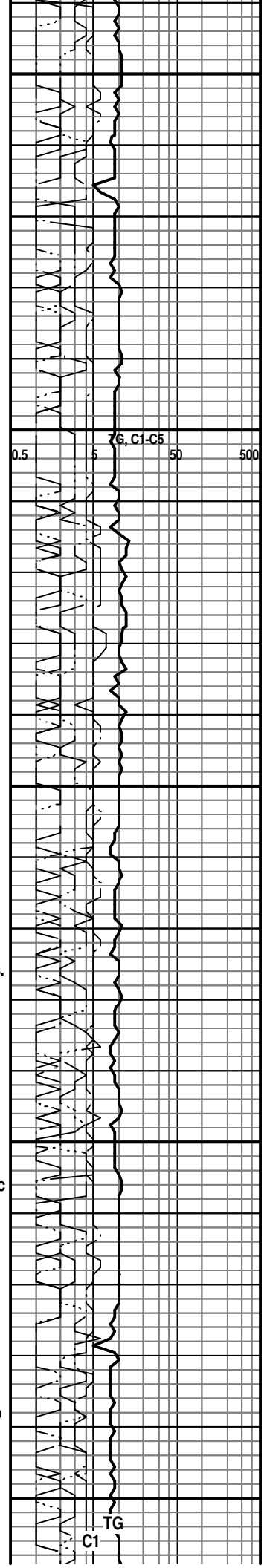
LM; tan to off wh, fxln, scat cse foss frags, fair interpart/interxn por, lt yel min fluor, no stn or odor, ns.

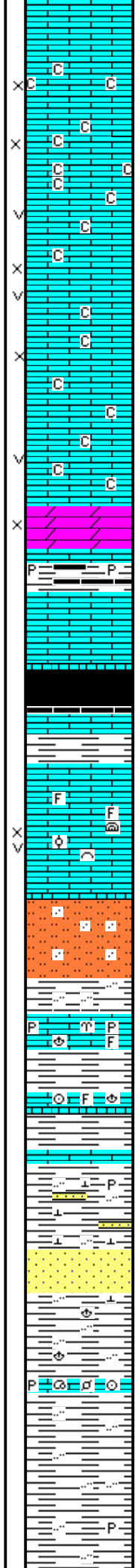
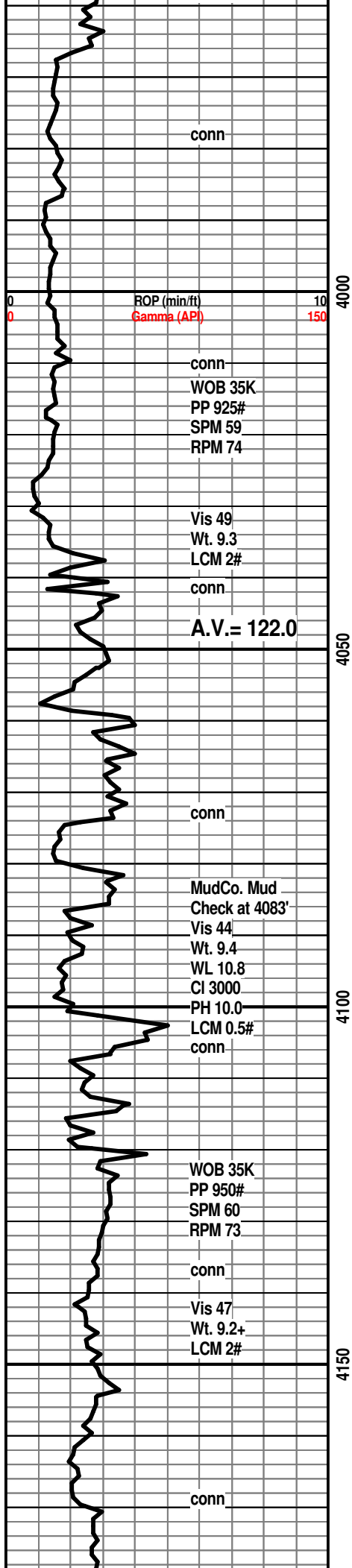
SH; med to dk gy, some grn, fiss

LM; tan to buff, lt brn, most dense, blocky, rare wh cht, tite

LM; wh to off wh, cream, f to med xln, scat cse spar calc xtals, most w/soft chalky mtx, dull yel min fluor, no stn or odor, no gas kick, ns.

LM; wh to off wh, med to cse xln, some gran text, fair to gd interxn por, interbdd soft chalky mtx, lt yel min fluor, no stn, ns.





LM; tan to lt brn, buff, micritic ip, hd, blocky

LM; wh to off wh, med to cse xln, gd interxln por, scat cse spar calc xtals, lt yel min fluor only, no stn or odor, no gas kick, ns.

LM; tan to off wh, med to cse xln, abnt spar calc xtals, gd interxln w/some vug por, lt to med yel min fluor, no stn or odor, ns.

LM; tan to buff, f to med xln, chalky mtx ip, gd interxln w/scat vug por, lt yel min fluor, no stn or odor, ns.

DOL; tan to lt brn, sucrosic, fair interxln por, lt yel min fluor, no stn or odor, ns.

SH; blk, dk gy, fiss, occ pyr

LM; tan to off wh, lt brn, fxln to micritic, most blocky, trc poor interxln por, minor foss mat, dull yel min fluor only, ns.

**HEEBNER SHALE 4053(-1841)**  
SH; blk, carb ip, fiss to blocky, trc gas  
LM; med to dk brn, hd

**TORONTO 4066(-1854)**  
LM; tan to cream, off wh, f to med xln, scat foss mat, fair to gd interxln por, sev. pcs w/vug por also, lt yel fluor, no stn or odor, no samples shows

**DOUGLAS SHALE 4085(-1873)**  
SLTST; lt gy, mica, sandy ip, firm to soft

SH; pale gy grn, fiss, silty

LM; lt brn, abnt foss mat, hd, dense-micritic, occ pyr, tite

SH; grn, fiss, soft

LM; med gy, hd, foss ip, tite, dull yel fluor, ns.

LM; tan to lt gy, gy brn, thinly bdd, tite

SH; lt to med gy, firm, calc, occ silty to sandy, interbdd hd vf gr ss strngs.

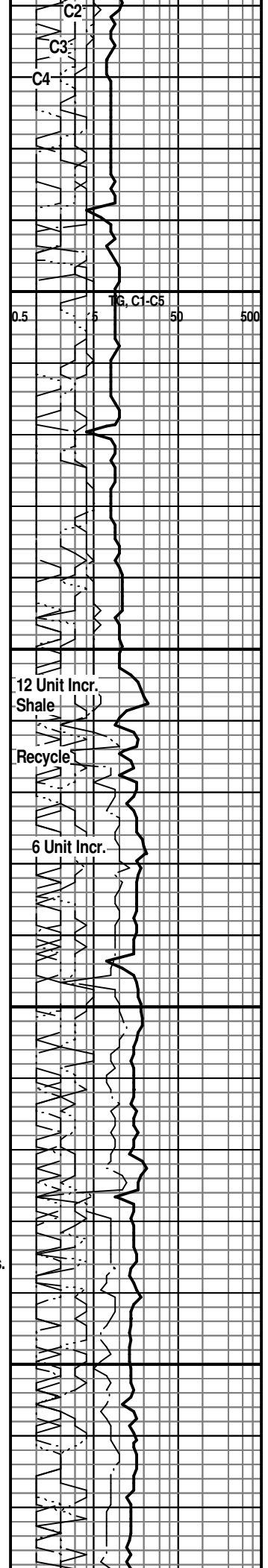
SS; lt gy, vf gr qtz, hd - well cem, mica ip, no vis por, ns.

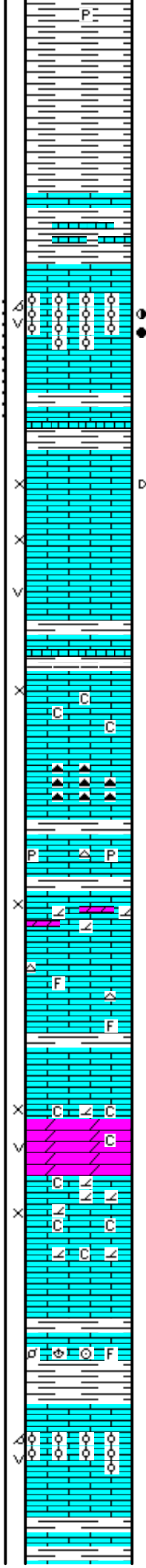
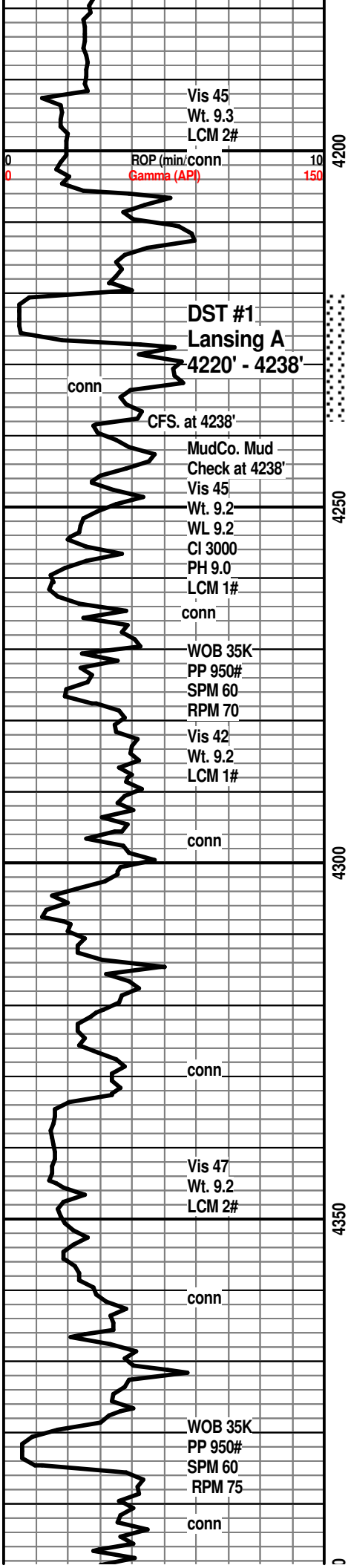
SH; lt to med gy, firm, occ silty, foss ip.

LM; lt to med gy, foss, pyr ip, hd

SH; lt to med gy, firm, most smooth, platy, rarely silty

SH; lt to med gy, fiss - platy, occ silty, sparse pyr





SH; med to dk gy, soft-sticky ip, smooth

**BROWN LMST. 4206(-1994)**  
LM; med to dk brn, hd, micritic, foss ip, tite

**LANSING 'A' 4216(-2004)**  
LM; tan to lt brn, oolitic, med to lrg size moldic por, some rextalized, scat vug por, med to brite yel fluor, FSFO, fair/gd odor, spotted to even lt to med brn oil stn, few gas bubbles, fair/gd cut, some barren porosity

**DST #1: Lansing 'A' 4220' - 4238'**  
SH; grn, gy grn, fiss

**LANSING 'B' 4242(-2030)**  
LM; tan to lt gy, off wh, fxln, poor vis interxln por, spots of blk tar/gilsonite, dull yel fluor, no gas kick, no live shows  
LM; wh to off wh, fxln, fair interxln por, scat soft chalky mtx, lt yel fluor, no stn or odor, ns.  
LM; tan to off wh, med/cse xln, scat well dev. vug por, dull yel fluor, no stn or odor, ns.

SH; grn, gy grn, fiss  
LM; lt gy to wh, f to med xln, fair interxln por, much soft chalky mtx, dull yel min fluor, no stn or odor, no gas kick, ns.

LM; tan to buff, fxln to micritic, blocky ip, abnt dk brn to smokey cht, hd, no vis por, ns.

LM; tan to med brn, hd, pyr ip.

LM; tan to cream, buff, med xln to sucrosic text, fair interxln por, partly dolomitic, no fluor, no stn or odor, ns.

LM; lt to med brn, fxln, scat foss mat, most well cem, no fluor, no stn, rare tan cht, tite

LM; tan to cream, fxln to sucrosic text, dolomitic w/interbdd sucrosic dolo, fair interxln por, partly chalky mtx, dull yel fluor, no stn or odor, ns.  
DOL; tan to lt brn, sucrosic to finely rhombic, fair interxln w/scat vug por, lt yel min fluor, ns.

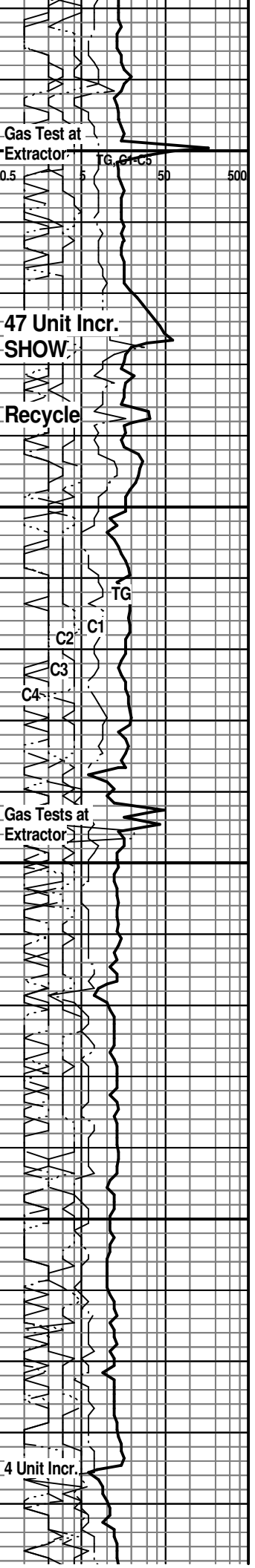
LM; tan to cream, buff, sucrosic to fxln, chalky ip, partly dolo, fair interxln por, no stn, ns.

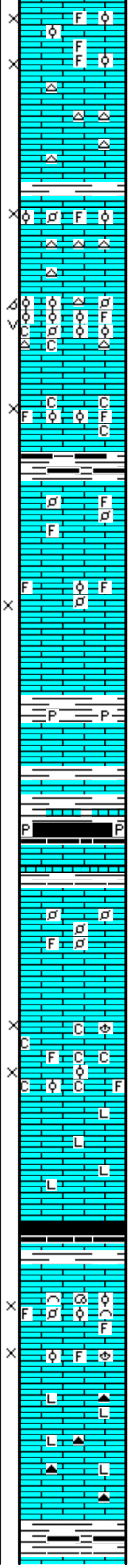
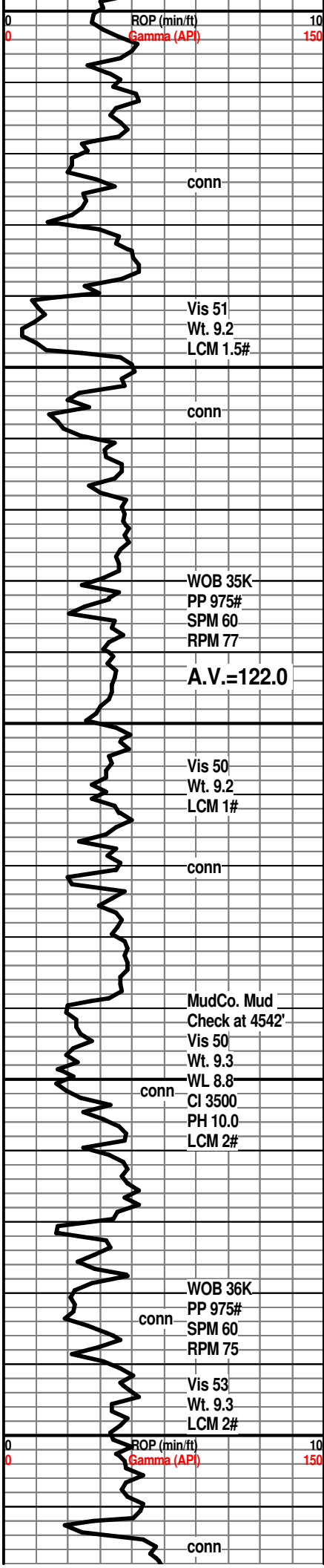
LM; med to dk brn, hd, v. foss, tite

SH; med to dk gy, firm, platy

**LANS/KC. 'H' 4376(-2164)**  
LM; lt brn, tan, oolitic, small to med size moldic por, brittle ip, gd oomoldic por, trc vug por, no stn or odor, med yel min fluor, no sample shows

SH; lt grn, soft, platy





LM; tan to cream, buff, foss to partly oolitic, fair interpart por, scat lt yel fluor, no stn or odor, no gas kick, ns.

LM; tan to lt brn, cherty ip, tite

**K.C. 'I' 4426(-2214)**

LM; off wh to tan, foss to finely oolitic, fair interpart por, dull yel fluor, no stn or odor, ns.

LM; tan, lt brn, lt gy, oolitic, gd oomoldic por, scat vug por, occ oolitic cht, lt yel min fluor only, minor chalky mtx, no stn or odor, ns.

LM; tan to cream, off wh, foss to med xln, poor interxln/interpart por, chalky ip, dull yel fluor, ns.

SH; med to dk gy, firm, platy

**K.C. 'J' DENNIS 4466(-2254)**

LM; tan to lt brn, foss ip, most dense - micritic, blocky, no vis por, no fluor, ns.

LM; tan to cream, rare lt gy, foss to finely oolitic, fair interpart por, dull yel min fluor, no stn or odor, barren, ns.

SH; med gy to grn, lmy, occ pyr

LM; tan med gy brn, shaly ip, hd, interbdd lmy shale, tite

**STARK SHALE 4515(-2303)**

SH; blk, carb ip, platy, rare pyr

**SWOPE 4523(-2311)**

LM; tan to buff, lt brn, foss ip, scat finely pelletal lmst, dull yel min fluor, no vis por, no stn or odor, ns.

LM; tan to cream, lt brn, med xln to gran text, occ foss, fair interxln/interpart por, chalky mtx, dull yel min fluor, no vis stn, no odor, ns.

LM; med brn, hd, litho, dense, blocky

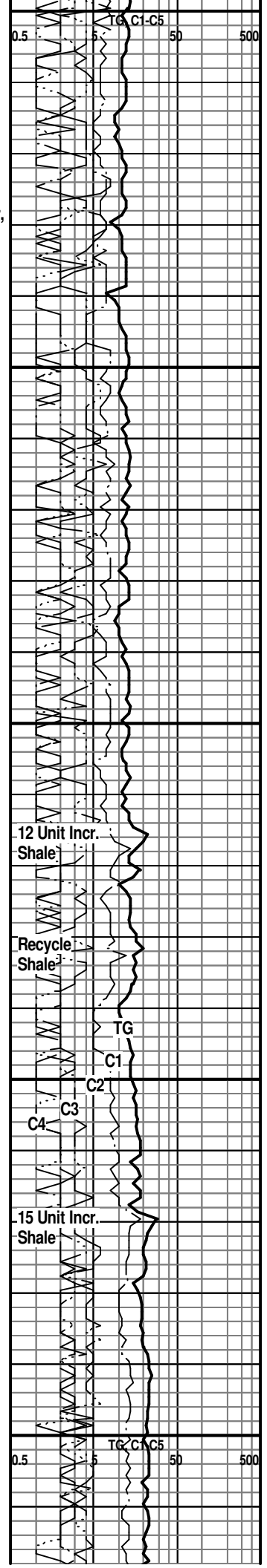
SH; blk, carb ip, soft to firm, gassy ip.

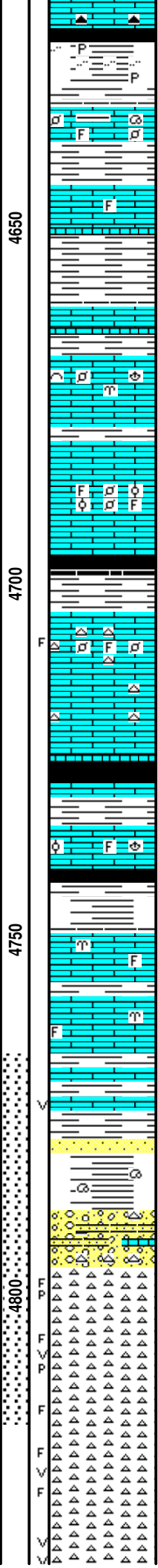
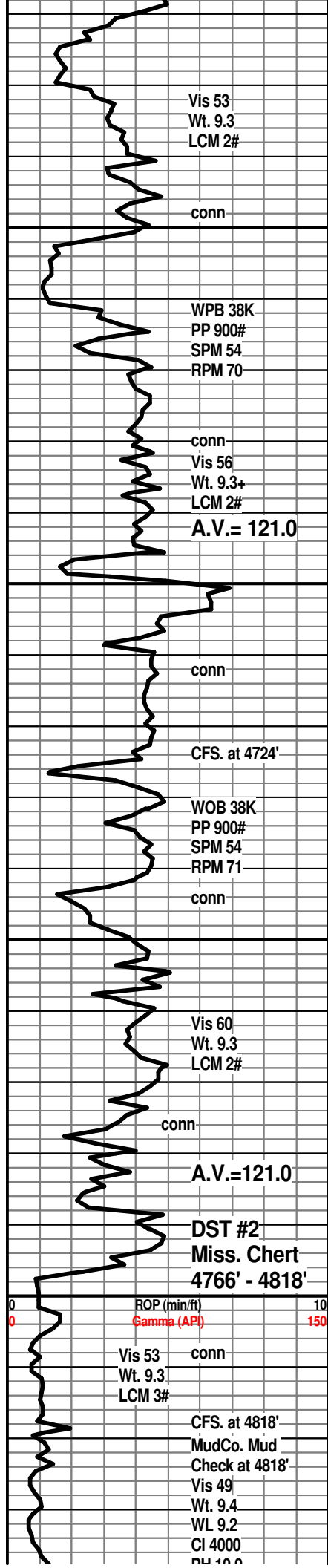
**HERTHA 4576(-2364)**

LM; tan to lt brn, foss, oolitic ip. w/abnt foss hash, fair interpart por, scat p-p por, lt yel fluor, no stn or odor, no gas kick, ns.

LM; med to dk brn, hd, litho, blocky, occ dk brn to smoky cht, tite

**BASE KANSAS CITY 4612(-2400)**





LM; med to dk gy brn, micritic, smoky cht, tite

SH; varic - blk, grn, maroon, some silty, platy to v. soft, occ pyr

**PLEASANTON 4633(-2421)**  
LM; med gy to med brn, hd, foss ip, argil ip, well cem, blocky, no vis por, no stn, ns.

LM; med gy, occ pale grn/yel, hd, massive bdd, some argil, rarely nodular, no vis por, ns.

SH; varic - grn, maroon, pale yel, red, soft/ flakey

**MARMATON 4661(-2449)**  
LM; tan to med brn, hd, no vis por, min fluor, ns.

LM; tan to lt brn, scat foss mat, most well cem, poor/no vis por, lt yel min fluor, no stn or odor, ns.

LM; tan to cream, lt brn, foss ip, scat well cem small oolites and pellets, trc blk tar/gil, lt yel fluor, no odor, no live shows

SH; blk, carb ip, soft

**PAWNEE 4704(-2492)**  
LM; tan to lt brn, foss ip, most well cem, occ org to tan cht w/fracs, trc dead oil/tar on frac edges, no odor, scat med yel fluor, questionable gas bubbles, no cut

LM; lt brn, hd, blocky, scat tan cht, scat med yel min fluor only, no stn or odor, ns.

SH; blk, carb, gassy

LM; tan to lt brn, rare pale yel, foss ip, most massive bdd, blocky, hd, no stn or odor, ns.

**CHEROKEE SHALE 4740(-2528)**  
SH; blk, some varic, platy, occ pyr

LM; tan to off wh, rare pale yel, fossip, blocky, scat dull yel min fluor, trc small vug por, ns.

LM; tan to lt brn, most dense-micritic, rarely foss, dull to scat lt yel fluor, no stn or odor, ns.

LM; med brn, foss, scat small vug por, spotted dk brn oil stn, few gas bubbles, no odor, med yel fluor, few pcs w/blk tar/gil

SS; clr, vf gr, qtz, hd, no vis por, no stn, ns.

SH; varic, foss, platy to sticky

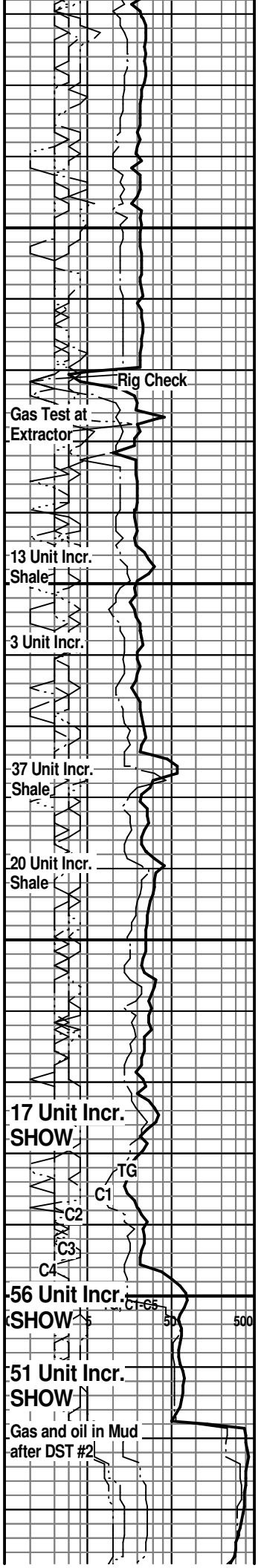
CONGL; weath org cht, blk nodular lmst, med to cse rnd rdqz gr, much soft sticky shale

**MISSISSIPPI CHERT 4796(-2584)**  
CHT; wh, org, opaque/gy fresh and trip(35% trip), fracs, faint gassy odor, scat med to brite yel fluor, scat med brn oil stn, occ gas bubb.

CHT; wh to opaque, fresh and trip(40% trip), fresh cht w/weath edges, much even to spotted lt brn oil stn, SSFO, gas bubbles, fracs and trip(p-p/vug)por, brite yel fluor, faint gas odor

**DST #2: Miss. Chert 4766' - 4818'**  
CHT; wh, off wh, trip and fresh cht, much med brn oil stn, fracs and scat vug por, SFO, med/brite yel fluor, faint odor

CHT; wh, off wh, pale yel, pred all fresh cht, sct lrg vug

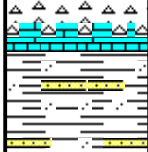




PH 10.0  
conn - LCM 2#

4850

CFS. at 4854'  
Vis 56  
Wt. 9.0  
LCM 3#



por, rare brite yel fluor, no odor, decr. show, dense brn  
lmst at base

**KINDERHOOK SHALE 4843(-2631)**

SH; med gy grn, med grn, sandy, interbdd thin vf gr lt  
gy grn qtz ss strngs, ns.

RTD. 4854' at 8:45 PM. 2/12/11

LTD. 4854'

Halliburton DIL, Neu/Den, Microlog

00