

# LITHOLOGY STRIP LOG

## WellSight Systems

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

Well Name: #1-34 Gene Einsel  
Location: 2310' FSL & 455' FWL, Sec. 34-T27S-R18W, Kiowa Co., KS.  
Licence Number: 15-097-21682-0000 Region: Greensburg SW  
Spud Date: 1/20/2011 Drilling Completed:  
Surface Coordinates: 2310' FSL & 455' FWL, Sec. 34-T27S-R18W

Bottom Hole Same as above  
Coordinates:  
Ground Elevation (ft): 2193' K.B. Elevation (ft): 2202'  
Logged Interval (ft): 3750' To: TD. Total Depth (ft):  
Formation:  
Type of Drilling Fluid: Freshwater/Gel to 3149'; Chemical Gel 3149' 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') 4211' - 4230' Times 15"-45"-30"-60" IFP Strong Blow BOB/50 Sec., FFP Fair Blow built to 6"; No GTS, no Blowback on SI's; REC: 455' GIP, 15' GOCWM(18%G, 20%O, 22%W, 40%M), 62' SOCMW(3%O, 87%W, 10%M), CI 70,000, Mud 6300; IFP 26-34#, ISIP 1102#, FFP 48-67#, FSIP 1184#, IHP 2058#, FHP 1990#, BHT 111 Deg. F.

DST #2(Mississippi Chert) 4756' - 4807' Times 15"-45"-45"-90" IFP Weak Blow built to 3", FFP Weak Blow built to 3.5", no Blowback on SI's; REC: 155' GIP, 30' WM(16%W, 84%M) CI 13,500, Mud 4000; IFP 20-23#, ISIP 176#, FFP 24-32#, FSIP 196#, IHP 2310#, FHP 2290#, BHT 117 Deg. F.

### Comments


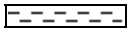

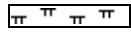
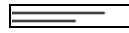
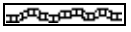




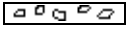


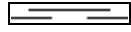

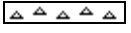


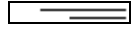

1/20/11 MIRU Sterling Drilling Co. Rig #4, Spud at 9:15 AM.; 1/21/11 TD. 525' - WOC; 1/22/11 Drilling at 2030'; 1/23/11 Drilling at 2970'; 1/24/11 Drilling at 3650'; 1/25/11 TD. 4230' - CFS; 1/26/11 Drilling at 4340'; 1/27/11 Drilling at 4730'; 1/28/11 TD. 4807' - CCH after DST #2; 1/29/11

Set 8 5/8"(23#) Surface Casing at 523' w/400 sx/(Basic Energy Services). Cement Did Circulate. PD. 10:30 PM. 1/20/11.








































































Surveys: 0.5 Degree at 525'(Surface Casing); 0.75 Deg. at 4230'(DST #1); 0.25 Deg. at 4807'(DST #2);

Pipe Strap at 4230'(DST #1): Strap 1.15' Long to the Board, no correction made to the Board.
























### ROCK TYPES

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

### ACCESSORIES

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

### OTHER SYMBOLS

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

**Curve Track 1**

ROP (min/ft) ———

Gamma (API) - - - - -



**TG, C1-C5**

TG (Units) ———

C1 (units) - - - - -

C2 (units) ·····

C3 (units) ·····

C4 (units) ·····

C5 (units) ·····



Depth

Porosity Type

Lithology

Oil Shows

Geological Descriptions

ROP (min/ft) 10  
Gamma (API) 150

37

**STRATA EXPLORATION, INC.**

**#1-34 GENE EINSEL**

**GEOLOGICAL REPORT**

**KB. 2202'**

conn

WOB 35K  
PP 1000#  
SPM 60  
RPM 75-80

conn

Vis 52  
Wt. 9.2  
LCM 1#

3750

3800

ROP (min/ft) 10  
Gamma (API) 150

conn

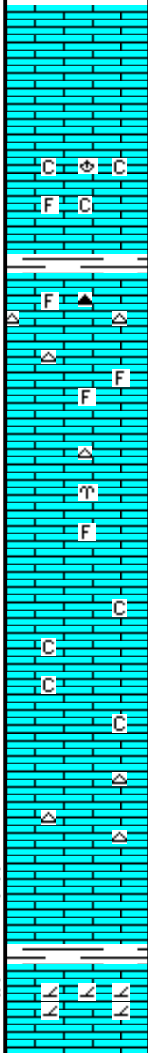
**A.V.= 123.0**

conn

Vis 50  
Wt. 9.2  
LCM 1#

3850

conn



**Start 10' Wet and Dry Samples**

LM; tan to lt brn, f to med xln, scat foss mat, fair interxln por, no fluor, occ chalky, no stn, ns.

SH; grn, gy grn, fiss

LM; tan to lt brn, foss ip, occ cherty w/gy to off wh occ foss cht, no vis por, no fluor, ns.

LM; lt brn, tan, fxln w/scat foss mat, most well cem, rare lt gy cht, no fluor, ns.

LM; tan to lt brn, buff, med xln, fair to gd interxln por, scat cse spar calc xtals, minor soft chalky mtx, dull yel min fluor only, no stn or odor, ns.

LM; tan to lt brn, buff, med xln, scat gd interxln w/occ vug por, no stn or odor, no gas kick, ns,

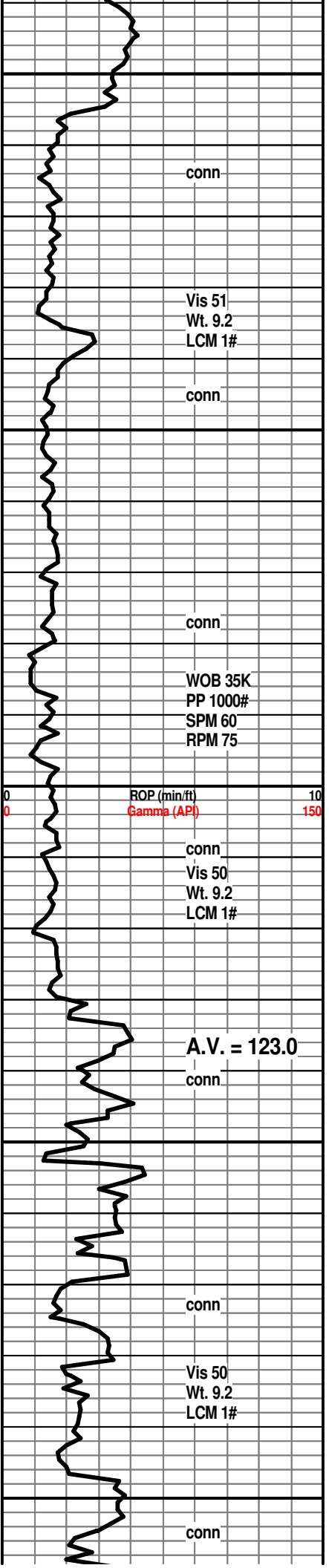
LM; tan to buff, sucrosic text, dolomitic ip, gd interxln por, scat small vug por, dull to lt yel min fluor, no stn, ns.

TG, C1-C5 50 500

Gas test at Extractor

TG  
C1

TG, C1-C5 50 500



conn

Vis 51  
Wt. 9.2  
LCM 1#

conn

conn

WOB 35K  
PP 1000#  
SPM 60  
RPM 75

ROP (min/ft) 0 10  
Gamma (AP) 0 150

conn

Vis 50  
Wt. 9.2  
LCM 1#

A.V. = 123.0

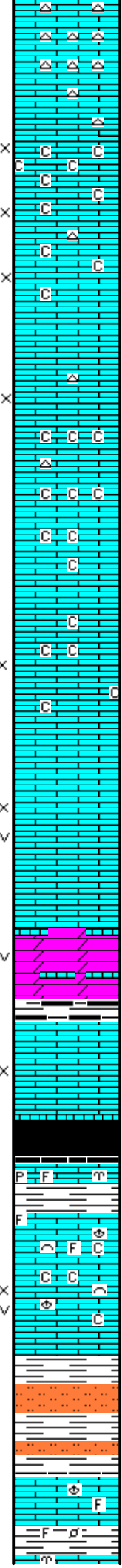
conn

conn

Vis 50  
Wt. 9.2  
LCM 1#

conn

3900  
3950  
4000  
4050  
4100



LM; med brn, hd, most micritic, blocky, tite, occ gy cht

LM; tan to off wh, buff, fxln to sucrosic text, soft chalky mtx ip, fair to gd interxln por, dull yel min fluor only, no stn, no gas kick, ns.

LM; tan to off wh, cream, f to med xln, gd interxln por, minor chalky mtx, dull yel min fluor, no stn or odor, ns.

LM; tan to off wh, rare lt brn, most med xln, scat fair to gd interxln por, rarely interbdd lt gy to off wh cht, interbdd soft chalky lmst, no fluor, no stn, ns.

LM; off wh, wh, tan, f to med xln, rarely sucrosic text, fair interxln por, bcm soft - chalky, interbdd gran to cse xln lmst w/cse spar calc xtals, dull yel min fluor only, no stn, ns.

LM; tan to off wh, buff, med to cse xln, abnt spar calc xtals, interbdd fxln lmst w/scat small vug por, dull yel min fluor, ns.

DOL; tan to lt gy, sucrosic to finely rhombic, lmy ip, scat vug por, lt yel min fluor, no stn, ns.

SH; dk gy to blk, fiss

LM; tan to lt brn, buff, f to med xln, poor vis interxln por, much dense micrite, dull yel min fluor only, ns.

**HEEBNER SHALE 4047(-1845)**

SH; blk, carb, gassy ip.

LM; med/dk brn, dense, rarely foss, occ pyr

**TORONTO 4060(-1858)**

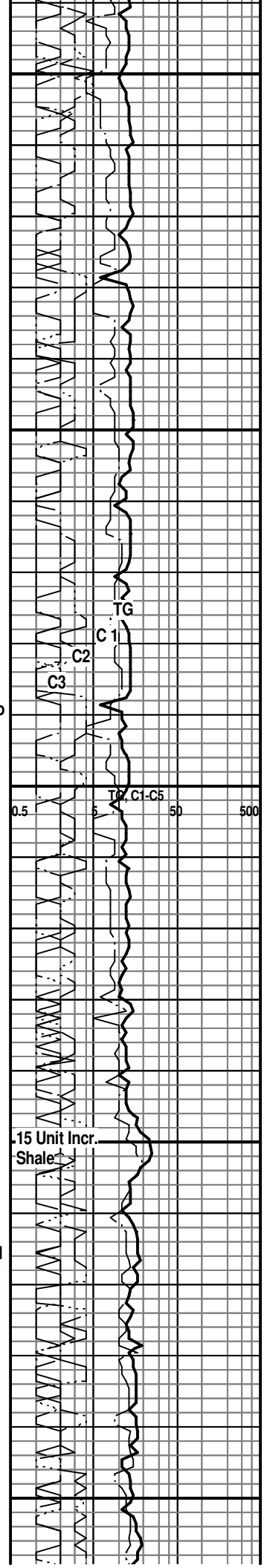
LM; wh to off wh, rare lt gy, med xln, foss ip, w/interbdd cse xln chalky lmst, fair interxln por, scat small vug por also, dull yel min fluor, no stn or odor, no gas kick, ns.

**DOUGLAS SHALE 4080(-1878)**

SH; lt gy, soft, sandy to silty, platy, interbdd slitst

LM; tan to lt brn, foss, well cem, blocky, hd

SH; grn, fiss, foss ip.



TG  
C1  
C2  
C3

0.5 TG, C1-C5 50 500

.15 Unit Incr. Shale

WOB 35K  
PP 1025#  
SPM 60  
RPM 72

conn

Vis 50  
Wt. 9.3  
LCM 2#

conn

Vis 54  
Wt. 9.3  
LCM 1#

A.V. = 123.0

SOP (min/conn  
Gamma (API)

DST #1  
Lansing 'A'  
4211' - 4230'

CFS. at 4030'  
conn

MudCo. Mud  
Check at 4230'  
Vis 49  
Wt. 9.2  
WL 11.6  
CI 6300  
PH 9.5  
LCM 2#

conn

Vis 56  
Wt. 9.2  
LCM 2#

conn

WOB 36K  
PP 1025#  
SPM 60  
RPM 70-75

Vis 50  
Wt. 9.3  
LCM 3#

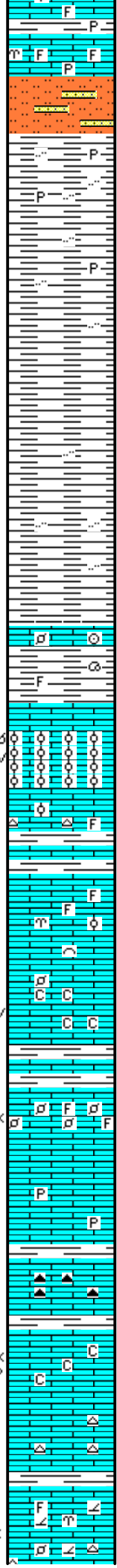
conn

4150

4200

4250

4300



LM; dk brn, gy brn, abnt foss frags, well cem, occ pyr, tite

SLTST; lt gy, v. firm, rarely mica, interbdd vf gr qtz ss strngs.

SH; lt to med gy, most smooth, fiss, occ pyr, silty ip.

SH; lt to med gy, platy

SH; most med gy, silty ip, most soft, flakey ip.

**BROWN LMST. 4197(-1995)**

LM; med to dk brn, dense, foss ip, hd.

SH; med gy to gy grn, firm, foss ip

**LANSING 'A' 4208(-2006)**

LM; tan to dk brn, oolitic, well dev. oomoldic por, much rextalized, vug por also, brite yel fluor, SSFO, gd odor when crushed, few gas bubbles, gd cut, spotted/even oil stn, some barren por.

**DST #1: Lansing 'A' 4211' - 4230'**

**LANSING 'B' 4232(-2030)**

LM; off wh, tan to cream, foss ip, poor to no vis interpart por, minor chalky mtx, no fluor, ns.

LM; off wh, wh, rare lt gy, fxln, scat fair vug por, interbdd soft chalky mtx, dull yel min fluor, no vis stn, no odor, no sample shows

SH; med to dk gy, fiss

LM; tan to buff, fxln w/foss mat w/occ small pellets, poor interpart por, no stn or odor, ns.

LM; tan to lt brn, most micritic, blocky, rarely pyr, hd, ns.

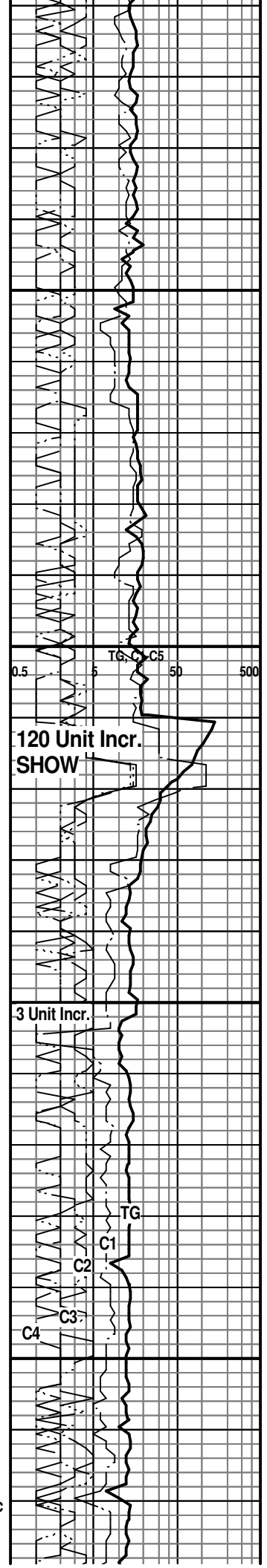
SH; med gy, fiss, smooth

LM; med to dk brn, hd, scat dk brn cht

LM; tan to off wh, buff, med to occ cse xln, fair interxln por, scat p-p por, chalky mtx ip, lt to med yel min fluor only, no stn, no gas kick, ns.

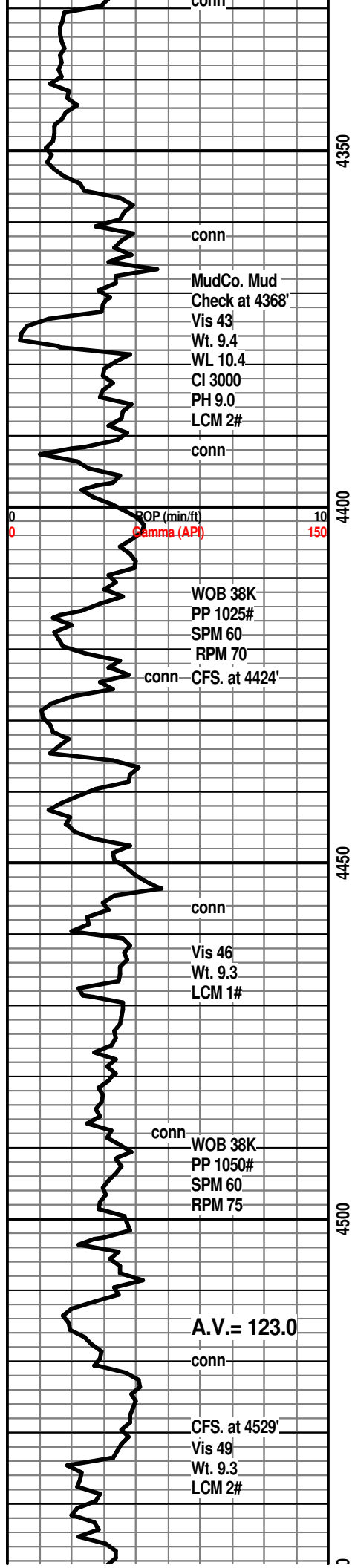
LM; tan to lt brn, most dense, blocky, scat gy to tan cht

LM; off wh, buff, tan, fxln, scat foss mat, minor sucrosic text - partly dolo, poor vis interpart por, dull yel min fluor, no stn or odor, ns.



120 Unit Incr.  
SHOW

3 Unit Incr.



conn  
MudCo. Mud  
Check at 4368'  
Vis 43  
Wt. 9.4  
WL 10.4  
CI 3000  
PH 9.0  
LCM 2#

conn

ROP (min/ft)  
Gamma (API)

WOB 38K  
PP 1025#  
SPM 60  
RPM 70  
conn - CFS. at 4424'

conn  
Vis 46  
Wt. 9.3  
LCM 1#

conn  
WOB 38K  
PP 1050#  
SPM 60  
RPM 75

A.V. = 123.0

conn

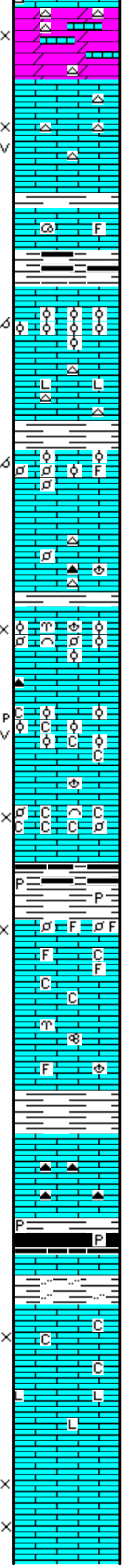
CFS. at 4529'  
Vis 49  
Wt. 9.3  
LCM 2#

4350

4400

4450

4500



DOL; off wh, tan, sucrosic, lmy, occ wh to off wh cht, fair interxln por, lt yel min fluor, no stn or odor, no sample shows

LM; tan to cream, f to med xln, fair interxln w/occ well dev. vug por, occ cse xln lmst w/cse spar calc xtal, dull yel min fluor, cherty ip, no stn or odor, ns.

LM; med brn, foss ip, hd

SH; med to dk gy, rare blk, platy  
**LANSING/K.C. 'H' 4369(-2167)**

LM; tan to lt brn, oolitic, most small to med size molds, gd oomoldic por, med to brite yel min fluor only, no stn or odor, no gas kick, barren

LM; tan to lt brn, hd, micritic, litho ip, occ cherty

SH; med gy to grn, fiss

LM; tan to lt brn, oolitic, scat foss mat w/some finely pelletal lmst, poor to fair oomoldic por, most small moldic por, lt to med yel fluor, no stn or odor, no gas kick, ns.

LM; tan to lt brn, foss to fxln, poor/no por, occ amber/smoky cht, no fluor, no stn, ns.

**K.C. 'I' 4414(-2212)**

LM; tan to buff, cream, abnt foss - finely oolitic w/gd interpart por, some med xln/gran text, lt yel min fluor only, no vis stn, no gas kick, ns.

LM; off wh, cream, buff, foss, some finely oolitic, much well dev. p-p and vug por, occ soft chalky mtz, dull yel min fluor only, no stn, no sample shows

LM; off wh, tan, fxln w/rare foss mat, much soft chalky mtz, fair interpart por, dull yel min fluor only, no stn, ns.

SH; dk gy, some blk, fiss, occ pyr

**K.C. 'J' 4458(-2256)**

LM; tan to cream, buff, foss - oolitic at top, fair interpart por, dull yel min fluor, interbdd soft chalky lmst, no stn or odor, ns.

LM; tan to lt brn, buff, scat foss mat, most well cem, no fluor, poor to no vis por, ns.

SH; med gy, rare gy grn, firm

LM; most med brn, hd, blocky, scat dk gy to smoky cht, no vis por, no fluor, ns.

**STARK SHALE 4502(-2300)**

SH; blk, carb ip, trc pyr

SH; med to dk gy, firm, occ silty

**SWOPE 4512(-2310)**

LM; tan to lt brn, cream, fxln, fair interxln por, some soft chalky lmst, scat lt yel min flour only, trc dk brn/blk residual oil stn, no odor

LM; tan to lt gy brn, hd, most micritic, blocky, some litho, tite

LM; tan to cream, buff, f to med xln, some gran text, fair interxln por, no fluor, no stn or odor, ns.

7 Unit Incr.

Change/Unplug  
Extractor Filter &  
Lines

Gas Test

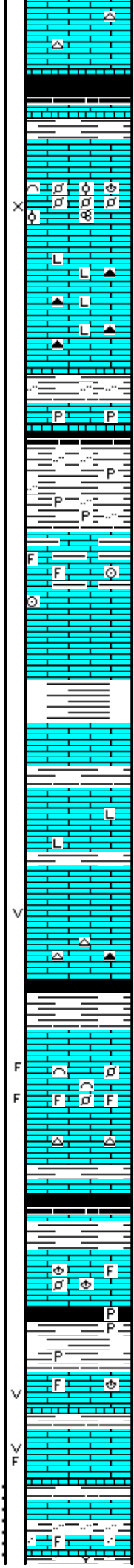
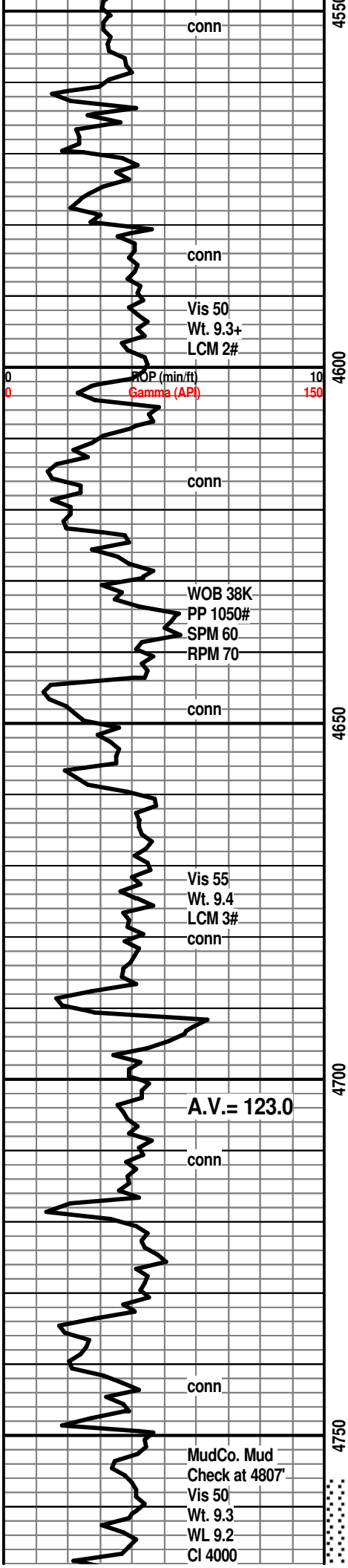
TS, C1-C5

5 Unit Incr.

13 Unit Incr.  
Shale

6 Unit Incr.





LM; med brn, hd, blocky, scat gy cht, tite

SH; blk, carb ip, some brittle, trc gas

**HERTHA 4570(-2368)**  
LM; tan to lt brn, highly foss w/scat pellets and foss hash, fair interpart por, dull yel min fluor, no stn or odor, ns.

LM; med to dk brn, hd, litho, scat smoky to dk gy cht, tite

**BASE KANSAS CITY 4601(-2399)**  
SH; gy to grn, fiss, silty ip.  
LM; tan to lt brn, hd, pyr ip,

SH; varic, grn, brn, fiss to flakey, occ pyr, rarely silty

LM; tan to grn, pale grn, argil ip, weathered appear, most dense, scat lrg crin stems and foss frags, no vis por, ns.

LM; med brn, pale red, weathered, blocky

SH; varic, maroon, lavender, grn, flakey

**MARMATON 4650(-2448)**  
LM; tan to pale grn, blocky, dense

LM; tan to cream, rare lt brn, most dense, litho ip, hd, blocky, no fluor, ns.

LM; tan to buff, off wh, most dense, blocky, rare small vug por, no vis stn, no fluor, scat gy to amber cht, ns.

SH; blk,dk gy, fiss, soft to flakey

**PAWNEE 4693(-2491)**  
LM; lt to med brn, cse xln w/scat foss mat, several fracs vis, med to brite yel fluor, fair/gd oil odor, scat med to dk brn spotted to even live oil stn, fair cut, few gas bubbles

SH; blk, fiss, gassy ip.

**FORT SCOTT 4724(-2522)**  
LM; med brn, foss, most well cem, blocky, dull to lt yel min fluor, no vis stn, no odor, ns.

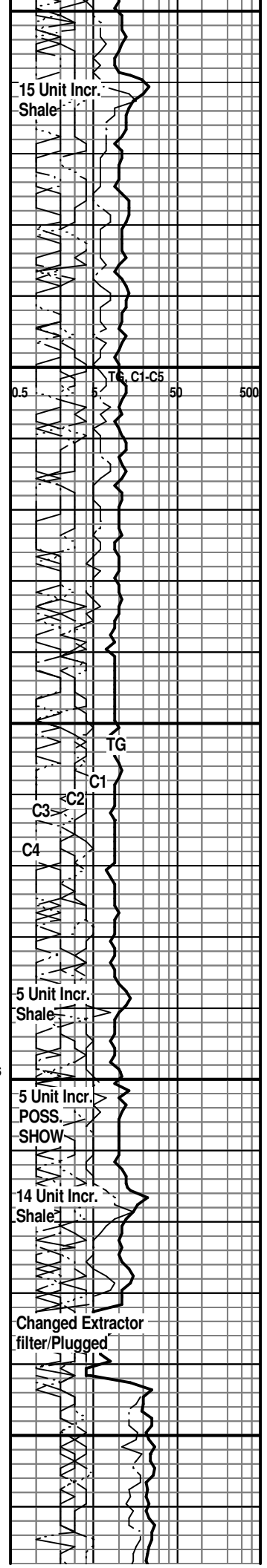
**CHEROKEE SHALE 4732(-2530)**  
SH; blk, fiss, w/gy grn foss to occ pyr splintery varic shales

LM; tan to lt brn, foss ip, well cem, rare small vug por w/dead oil stn, v. dull yel fluor, no live shows, no odor

LM; off wh, wh, fxln, scat small vug por w/med brn oil stn, few fracs w/live oil and gas bubbles, med yel fluor, no odor

SH; grn, fiss to firm, silty ip.

LM; lt brn, foss, sl. sandy text, hd, dead oil stn



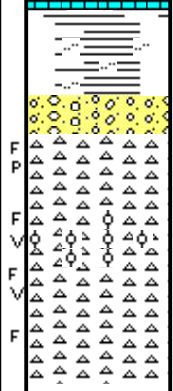
PH 10.0  
LCM 2#  
conn.

**DST #2**  
**Miss. Chert**  
**4756' - 4807'**

SR=Slightly Rough  
Drilling

0	SR	SR	ROP (min/ft)	10
0	SR	SR	Gamma (AP)	150
			CFS. at 4807'	

4800  
4850  
4900  
4950



SH; varic, gy, grn, maroon, yel, platy, silty to sandy

- REWORKED MISS CHT. 4782(-2580)**  
CHT; varic, much org, yel, red, wh, most fresh, scat dk brn/blk dead stn, lt yel fluor, no odor
- MISS. CHERT 4789(-2587)**  
● CHT; wh, off wh, fresh & trip(est. 45% trip), frags and p-p/vug por, lt yel fluor, faint odor, rare oolitic cht w/vug por, scat dk brn oil sat. pcs w/SFO, gas bubbles, oil stn on frac planes
- CHT; varic, wh, org, off wh, mostly fresh cht w/spotted oil stn, faint oil/gas odor, decr. shows

**DST #2: Miss. Chert 4756' - 4807'**

**MAX. 45 Unit**  
**Incr.-SHOW**

0.5	TG, C1-C5	50	500
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NOTE: Gas Kick recycled



