

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: Robertson #1-33
Location: 2310' FNL & 900' FEL, Sec. 33-T27S-R18W, Kiowa Co., KS.
Licence Number: 15-097-21679-0000 Region: Greensburg SW
Spud Date: 10/19/2010 Drilling Completed: 10/28/2010
Surface Coordinates: 2310' FNL & 900' FEL, Sec. 33-T27S-R18W

Bottom Hole Same as above
Coordinates:
Ground Elevation (ft): 2203' K.B. Elevation (ft): 2214'
Logged Interval (ft): 3740' To: 4900' Total Depth (ft): 4900'
Formation: Viola at Total Depth
Type of Drilling Fluid: Freshwater/Gel to 3050'; Chemical Gel 3050' to 4900'.

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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') 4208' - 4227' Test Times 15"-45"-45"-90" IFP Strong Blow BOB/8 min., FFP Strong Blow BOB/6 min, no Gas to Surface, no Blowback on SI's; REC: 355' Gas in Pipe, 35' WM(21%W, 79%M), CI 40,000, Mud 6000; IFP 16-25#, ISIP 626#, FFP 19-40#, FSIP 946#, IHP 2033#, FHP 2010#, BHT 114 Deg. F.

DST #2(Mississippi Chert) 4748' - 4808' Test Times 15"-45"-45"-90" IFP Strong Blow Gas to Surface in 1.5 min., Gauged 3950 MCFG/15"; FFP Strong Blow GTS throughout, gas volumes decreasing - Gauged 1708 MCFG/45" of FFP; REC: 158' Drlg. Mud, 62' SOCM(1%O, 99%M), no Water; IFP 810-634#, ISIP 1190#, FFP 616-240#, FSIP 782#, IHP 2375#, FHP 2323#, BHT 123 Deg. F.

Comments

10/19/10 MIRU Sterling Drilling Co. Rig #2, Spud at 7:30 PM.; 10/20/10 TD. 415' - TOH for Plugged bit; 10/21/10 Drilling at 883'; 10/22/10 Drilling at 2381'; 10/23/10 Drilling at 2980'; 10/24/10 Drilling at 3670'; 10/25/10 TD. 4227' CFS; 10/26/10 Drilling at 4330'; 10/27/10 Drilling at 4714'; 10/28/10 TD. 4808' - TIH after DST #2; 10/29/10 RTD. 4900', LTD.

Set 8 5/8" 24# Surface Casing at 517' w/400 sx.(Basic Energy Services). Cement did Circulate. PD. 1:45 PM. 10/20/10.


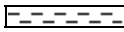

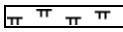
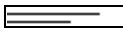
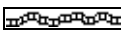


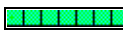

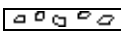


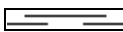

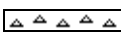


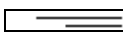

Surveys: 0.25 Deg. at 520'(Surface Casing); 1.0 Deg. at 4227'(DST #1); 0.75 Deg. at 4808'(DST #2); Deg. at 4900' TD.

Pipe Strap at 4227'(DST #1): Strap 6.36' Long to the Board, no correction made to the Board, will check logs.








































































After examination of the Halliburton Logs, DST data, structural position and positive hydrocarbon show, the operator elected to set new 5 1/2" 15.5# Production Casing for completion in the Mississippian Chert.

LOG TOPS:
























ROCK TYPES

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

ACCESSORIES

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

OTHER SYMBOLS

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

Curve Track 1

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

TG, C1-C5
 TG (Units) ———
 C1 (units) - - - - -
 C2 (units)
 C3 (units)
 C4 (units)
 C5 (units)

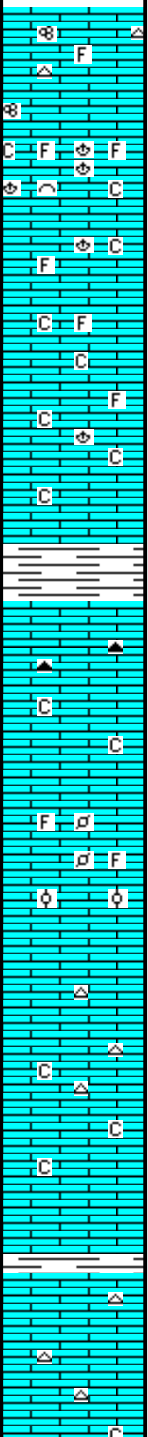
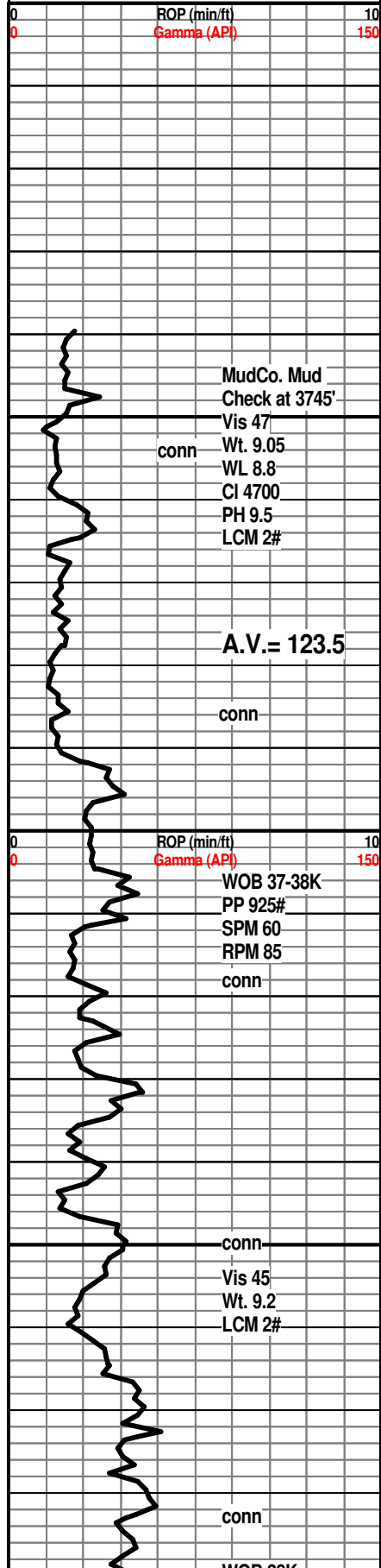
Depth

Porosity Type

Lithology

Oil Shows

Geological Descriptions



STRATA EXPLORATION, INC.
#1-33 ROBERTSON
GEOLOGICAL REPORT
KB. 2214'

LM; tan to cream, buff, med xln w/scat foss mat, rare wh to off wh cht, some med yel min fluor, no stn or odor, no gas incr, ns.

LM; lt brn, tan, foss, well dev. vug and interpart por, occ chalky mtx, no fluor, no stn or odor, ns.

LM; tan to cream, buff, f to med xln, fair to gd interxln por, scat foss mat, most w/dull yel min fluor only, no stn or odor, rare gy foss cht, ns.

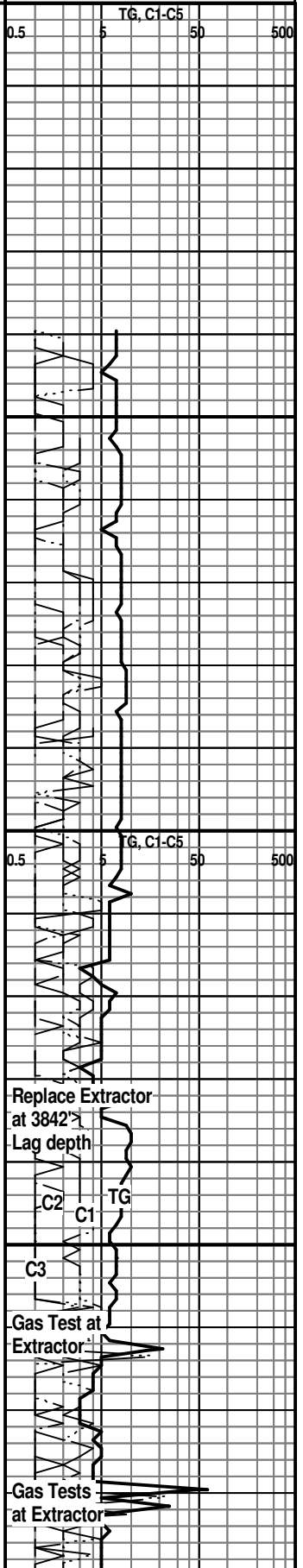
SH; med gy to gy grn, fiss

LM; lt to med brn, hd, blocky, occ brn foss to spicular cht, no fluor, tite

LM; tan to buff, lt brn, med xln, scat foss mat, fair interxln/interpart por ip, some dense micrite, dull yel min fluor only, no stn or odor, ns.

LM; off wh, tan to cream, f to med xln, some gran text, fair interxln por, minor chalky mtx, lt yel min fluor, no stn or odor, interbdd wh cht, ns.

LM; tan to lt gy, lt brn, most dense, blocky, micritic, occ cherty, tite



WOB 38K
PP 950#
SPM 60
RPM 80

conn

Vis 45
Wt. 9.25
LCM 1.5#

conn

conn

WOB 38K
PP 950#
SPM 60
RPM 75-80

conn

Vis 46
Wt. 9.4
LCM 2#

conn

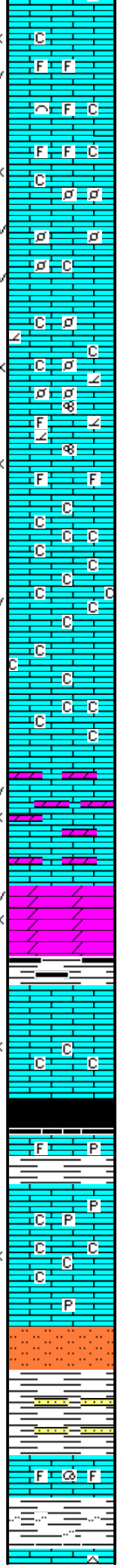
A.V.= 123.5

conn

Vis 52
Wt. 9.2
LCM 2#

conn

3900
3950
4000
4050
4100



LM; tan to off wh, buff, med xln, interbdd foss mat and hash, scat gd vug and interxln por, minor chalky mtx, dull yel min fluor, no stn or odor, ns.

LM; tan to lt brn, off wh, med xln, scat gd vug and interxln por, occ chalky, interbdd cse xln lmst w/cse spar calc xtals, dull yel min fluor, no stn, ns.

LM; lt brn, tan, scat cse foss frags and hash, fair to gd interpart por, chalky ip, some sucrosic text, partly dolomitic, lt yel spotted fluor, no stn or odor, ns.

LM; tan to lt brn, buff, med xln, scat cse spar calc xtals, v. chalky - soft mtx ip, scat gd vug por, dull yel fluor, no stn, ns.

LM; tan to lt brn, med xln, gd interxln and vug por, dolomitic w/interbdd dolo, lt yel min fluor, no stn, ns.

DOL; tan to lt gy, sucrosic to finely rhombic, gd interxln w/vug por, lt yel min fluor only, no stn odor, ns.

SH; dk gy to blk, firm, platy

LM; med gy to brn, dense, blocky, interbdd fxln partly chalky lmst w/poor interxln por, no fluor, no stn or odor, ns.

HEEBNER SHALE 4044(-1830)

SH; blk, carb, trc gas
LM; med brn, hd, occ foss, pyr ip, tite

TORONTO 4056(-1842)

LM; off wh, wh, micritic to med xln, soft chalky mtx ip, occ cse spar calc xtals, fair interxln por ip, scat pyr, dull yel min fluor only, no stn or odor, no gas kick, ns.

DOUGLAS SHALE 4076(-1862)

SLTST; lt gy, mica ip, sandy, firm
SH; lt to med gy, firm, platy, occ interbdd vf gr qtz ss strngs.

LM; lt brn, hd, blocky, foss ip, well cem, no vis por, no fluor, ns.

SH; grn, gy grn, soft, occ silty

New Filament - Calibrate HW.

76, C1-C5
0.5 50 500

34 Unit Incr. Shale

Recycle

WOB 38K
PP 950#
SPM 60
RPM 80
conn

conn
Vis 53
Wt. 9.2
LCM 2#

WOB 37K
PP 950#
SPM 60
RPM 75-80
conn

ROP (min) conn 10
Gamma (A-y) 150

**DST #1
Lansing 'A'
4208' - 4227'**

CFS. at 4227'
MudCo. Mud
Check at 4227'
conn
Vis 53
Wt. 9.2
WL 8.8
CI 6000
PH 9.5
LCM 1#

conn
Vis 52
Wt. 9.2
LCM 1#

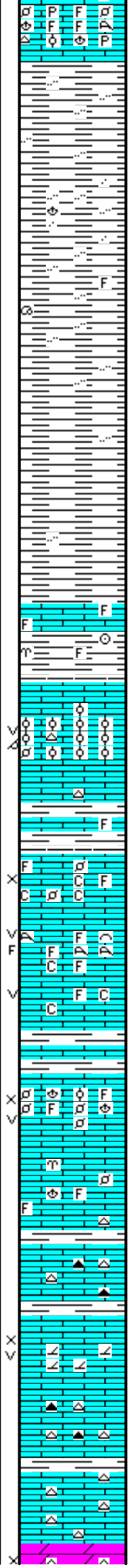
conn
WOB 38K
PP 975#
SPM 60
RPM 80

4150

4200

4250

4300



LM; lt brn, highly foss, cherty ip, hd, well cem, scat pyr, dull yel min fluor, no stn or odor, ns.

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

SH; lt to med gy, firm, fiss, silty to occ sandy, scat foss mat

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

BROWN LMST. 4194(-1980)
LM; med brn, hd - sharp, dense, foss ip.

SH; gy grn, firm, foss ip.

LANSING 'A' 4205(-1991)

LM; lt to med brn, oolitic, med to lrg moldic por, scat fair vug por also, med yel fluor, spotted lt to med brn oil stn(10% of sample), SSFO when crushed, faint/fair odor, occ gas bubbles, rare oolitic cht, occ rextalized

SH; med to dk gy, interbdd hd foss lmst.

LANSING 'B' 4229(-2015)

LM: off wh, foss to fxln, fair interpart por, chalky mtz, dull yel min fluor, no stn or odor, ns.

LM: off wh, wh, foss, scat fair vug por, v. lt brn spotted to even oil stn some, fair odor, trc gas bubbles, some barren por, med to brite yel fluor, poss fracs, fair/gd cut

LM; wh, off wh, foss, vug por, trc oil stn - most barren, rare stn, chalky ip, no odor, no fluor

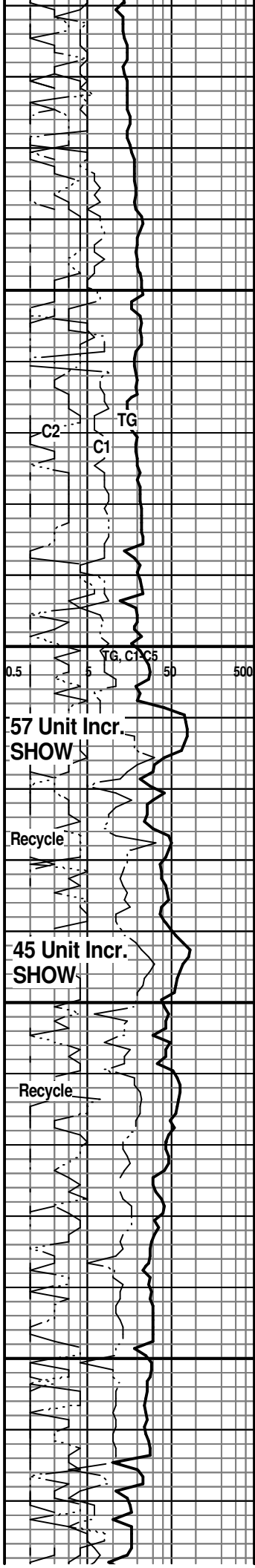
SH; med gy, grn, interbdd mottled brn hd lmst.

LM: tan to off wh, cream, foss w/abnt small pellets and hash, scat fair interpart w/occ vug por, dull yel min fluor only, no stn or odor, ns.

LM; lt to med brn, hd, occ cherty, no vis por, no stn, ns.

LM; tan to cream, off wh, fxln to sucrosic text, partly dolomitic, gd interxln por, rare vug por, dull yel min fluor only, no stn or odor, ns.

LM; tan to lt brn, buff, most micritic, blocky, cherty w/wh and gy fresh cht, hd, no vis por, ns.



57 Unit Incr.
SHOW

Recycle

45 Unit Incr.
SHOW

Recycle

conn
Vis 48
Wt. 9.3
LCM 1#

conn

A.V. = 123.60

WOB 38K
PP 950#
SPM 60
RPM 80

conn MudCo. Mud
Check at 4397'

ROP (min) 10
Gamma (A) 150
Vis 51
Wt. 9.2
WL 9.2
CL 8500
PH 8.5
LCM 1#

conn CFS. at 4424'

CFS. at 4438'

Vis 52
Wt. 9.2
LCM 2#

conn

WOB 36-37K
PP 950#
SPM 60
RPM 85

conn
Vis 49
Wt. 9.4
LCM 1#

A.V. = 123.7

conn

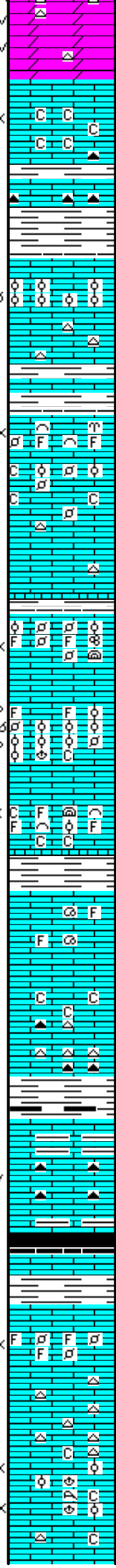
WOB 38K
PP 950#
SPM 60
RPM 75

4350

4400

4450

4500



DOL; tan to lt gy, lt brn, sucrosic to finely rhombic, fair to gd interxln w/vug por dev, dull yel fluor, no stn or odor, cherty ip, ns.

LM; tan to off wh, sucrosic ip, some cse xln w/abnt spar calc xtals, fair interxln por, chalky - soft at base, no fluor, no stn, ns.

LM; lt brn, most dense, micritic, scat brn cht, tite

SH; med to dk gy, firm, platy

LANS/KAN. CITY 'H' 4365(-2151)

LM; lt brn, tan, finely oolitic, small to med size moldic por, brittle ip, fair oomoldic por, med yel min fluor only, no stn or odor, no gas kick, ns.

SH; med to dk gy, fiss

LM; tan to cream, off wh, foss, scat cse foss frags and hash, abnt small foss pellets and small oolites, weakly cem, dull yel min fluor only, no stn or odor, ns.

LM; tan to lt brn, buff, hd, rarely cherty, tite

KAN. CITY 'I' 4415(-2201)

CFS. at 4424': LM; lt brn, v. foss, finely pelletal, weakly cem - fair interpart por, trc dk dead brn oil stn, lt yel fluor, no odor, no gas kick

CFS. at 4438': LM; tan to lt brn, buff, highly foss to oolitic, most w/fair p-p and oomoldic por, dull yel min fluor, no stn or odor, no sample shows

LM; off wh, tan, abnt foss mat, fair interpart por, weakly cem, occ soft chalky mtx, dull yel min fluor only, no stn or odor, no gas kick, ns.

KAN. CITY DENNIS('J') 4454(-2240)

LM; tan to lt brn, foss ip - well cem, most dense, blocky, micritic, hd, no vis por, no stn or odor, ns.

LM; off wh, tan, buff, fxln, poor to no vis interxln por, occ soft chalky mtx, no stn or odor, occ amber to gy fresh cht, ns.

SH; med to dk gy, trc blk, platy

LM; med to dk gy, gy brn, hd, blocky, interbdd shaly lmst, occ amber to smoky cht, trc vug por, no fluor, no stn, ns.

STARK SHALE 4502(-2288)

SH; blk, carb ip, platy, trc gas
LM; med gy brn, med brn, dense, micritic

SWOPE 4512(-2298)

LM; tan to off wh, foss to med xln, fair to gd interxln por, dull yel fluor, no stn or odor, no gas kick, ns.

LM; off wh, wh, tan, fxln, hd, cherty ip, most micritic, dense

LM; off wh, wh, fxln, scat foss mat, occ soft chalky mtx, interbdd tan to lt brn highly foss to partly oolitic lmst, dull yel min fluor only, no stn or odor, ns.

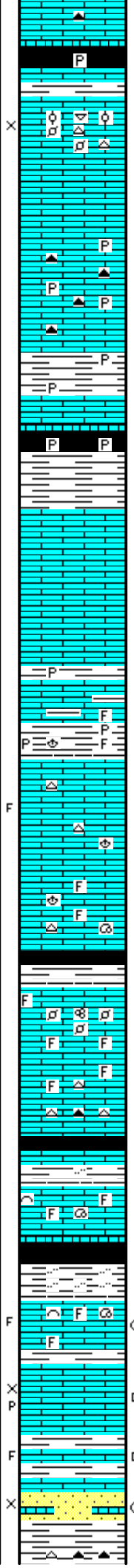
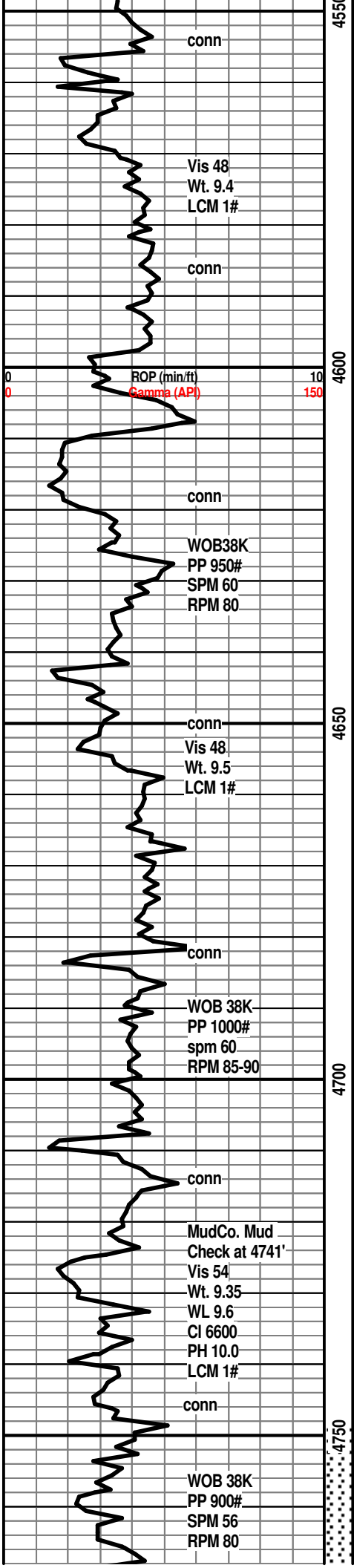
Gas Test
at Extractor

TG, C1-C5

4 Unit Incr.
Poss. Show

C1
TG
C3 C2

11 Unit Incr.
Shale



LM; dk brn, dense, hd, micritic
 SH; blk, carb ip, firm to blocky, trc pyr

HERTHA 4562(-2348)
 LM; lt gy to tan, foss, scat poor to fair interpart por, few well cem oolites and pellets, some oolitic cht, no fluor, no stn or odor, ns.

LM; med gy to med brn, bcm dk brn, most dense, interbdd smoky to dk gy cht, occ pyr, hd, blocky, tite

BASE KANSAS CITY 4597(-2383)
 SH; gr to grn, firm, occ pyr, platy
 LM; med to dk brn, hd, micritic
 SH; dk gy to blk, firm to soft, occ pyr
 SH; grn, gy grn, rust red, soft

PLEASANTON 4620(-2406)
 LM; tan to off wh, buff, occ fxln w/scat cse spar calc xtals, most dense - litho, hd, no vis por, dull yel min fluor, no stn or odor, ns.
 LM; tan to off wh, most micritic, blocky, tite

MARMATON 4644(-2430)
 LM; grn, shaly ip, looks weathered, tite
 SH; med to dk gy, fiss, occ pyr, foss ip.
 LM; tan to lt brn, most dense, blocky, micritic, trc fracs, cherty ip, no vis por, no stn or odor, ns.
 LM; lt brn, foss ip, most well cem, blocky, no fluor, cherty ip, tite, ns.

SH; dk gy to blk, fiss

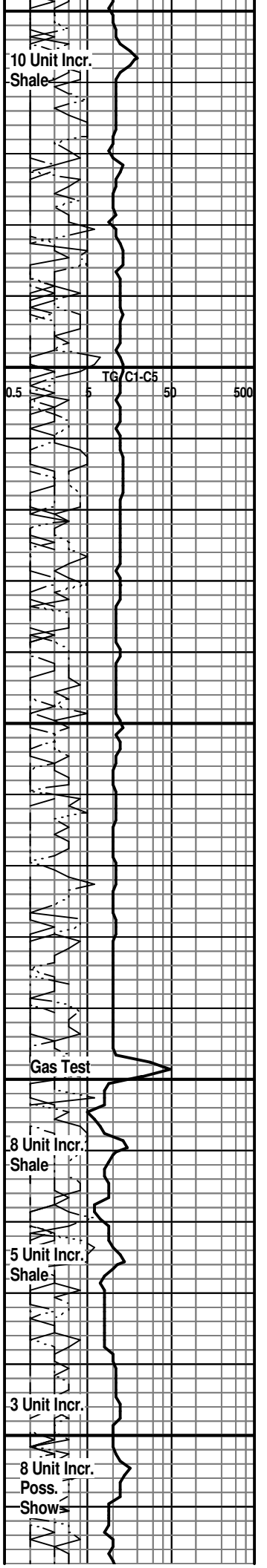
PAWNEE 4687(-2473)
 LM; tan to lt brn, foss - scat small pellets and foss mat, well cem, much dense micrite, no vis por, no stn or odor, ns.
 LM; tan to lt brn, most micritic, blocky, hd, scat lt to med gy cht, no vis por, no fluor, ns.
 SH; blk, carb ip, soft to blocky, fiss

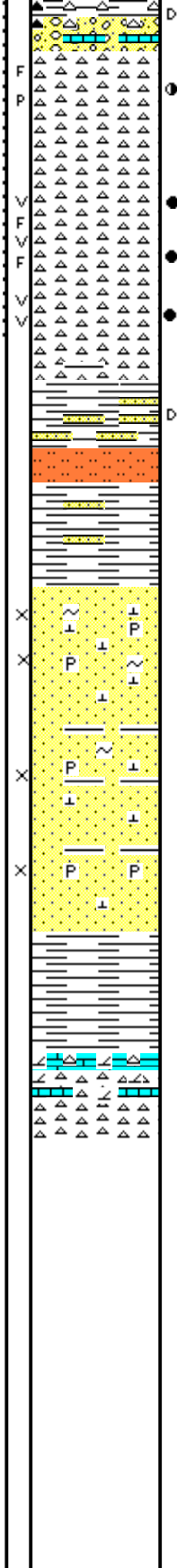
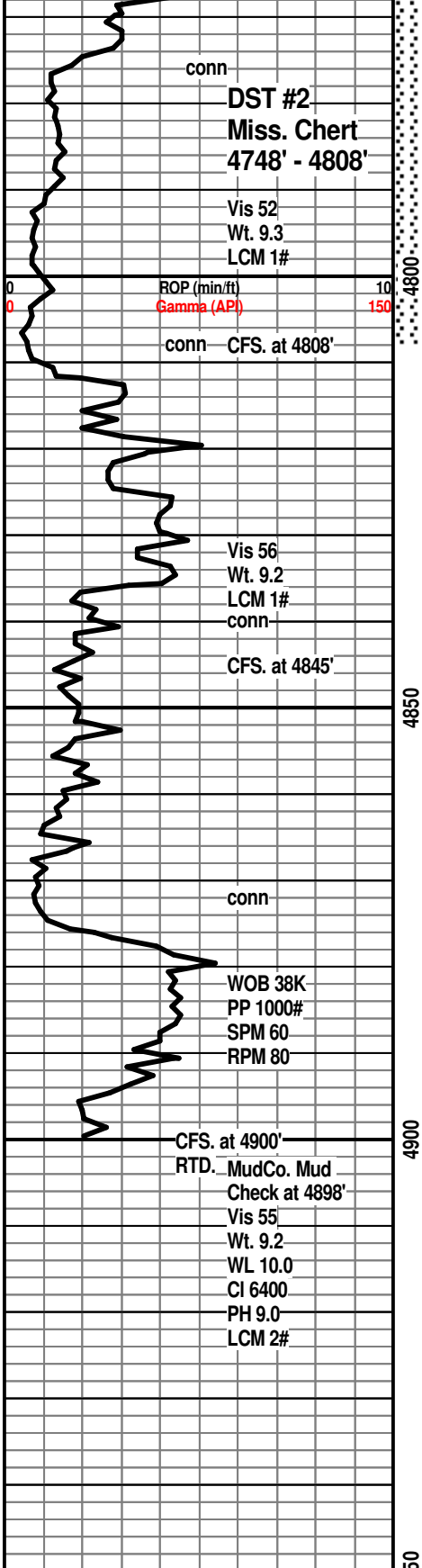
FORT SCOTT 4715(-2501)
 LM; lt to med brn, hd, blocky, rare well cem foss, most dense, no vis por, no stn, ns.

CHEROKEE SHALE 4723(-2509)
 SH; blk, v. dk gy, carb ip, w/med gy to grn soft occ silty sh.
 LM; tan to buff, lt brn, fxln, scat foss mat, most well cem, few pcs. w/fracs with dk brn/blk oil stn, no odor, no gas kick
 LM; tan to lt brn, some cse xln, foss ip, scat p-p and interpart por, few pcs. w/blk tarry dead oil, dull yel min fluor, no odor, no vis gas bubbles
 LM; tan to lt brn, fxln, scat fracs, much blk tar/gilsonite stn, no live oil, scat med yel fluor, faint odor, no vis gas

SS; lt gy, lt brn, shaly ip, scat dk brn/blk oil stn, lt yel fluor, no odor, fair por, few loose grains, lmy

CONGL: weath arn lmst. varic cht. soft arn & rustv red





shales, trc blk tar/gilsonite

REWORKED MISS. 4775(-2561)
 CHT; wh to off wh, yel, org, fresh and trip(25% trip), spotted lt brn stn, fracs, fair p-p por, no odor, lt yel fluor, grn tite shaly chert at base

MISS. CHERT 4789(-2575)
 CHT; wh, pale yel, transl, most fresh, abnt fracs w/oil stn on frac edges, incr. trip cht(30%), sev. pcs w/lrg vug por & w/live oil - FSFO, much brite yel fluor, faint odor, gas bubbles, fair/gd cut

CFS. 60": CHT; wh, off wh, yel, transl, sl. incr. in trip cht(35%), much lrg vug por w/SFO, faint odor, med to brite yel fluor, scat fracs, gd cut

KINDERHOOK SHALE 4811(-2597)
 SH; med gy to gy grn, platy, interbdd vf gr. lt gy/grn ss strngs, trc blk tarry dead oil stn

SH; med gy, gy grn, platy, interbdd pale gy to grn sltst to vf gr. qtz ss strngs, no fluor, no stn or odor, ns.

KINDERHOOK SAND 4836(-2622)
 SS; clr, wh, pale grn, f gr qtz, clusters, well srt, clean, some v. hd - qtzitic, most w/fair to gd intergran por, rare pyr, no fluor, no stn or odor, no gas kick, ns, minor glau, calc. cmt.

SS; wh, clr, most f gr qtz, clusters w/some loose gr, gd intergran por, minor pyr incl, some shaly ss, no fluor, no stn or odor, ns.

SS; wh, pale grn, f to med gr qtz, v. gd intergran por, loosely cem, no fluor, barren, ns.

SH; varic, platy, occ silty

VIOLA 4890(-2676)
 CHT; brn, tan, fresh - sharp, w/interbdd cherty brn partly dolomitic lmst, some fracs, ns.

RTD. 4900' at 2:00 PM. 11/28/10

LTD.

Halliburton DIL, Neu/Den, Microlog

