

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: Miller Trust 'B' #1-1
Location: 335' FNL & 1795' FWL, Sec. 1-T27S-R20W, Kiowa Co., KS.
Licence Number: 15-097-21780-00-00 Region: Wildcat
Spud Date: 12/10/2013 Drilling Completed: 12/18/2013
Surface Coordinates: 335' FNL & 1795' FWL, Sec. 1-T27S-R20W

Bottom Hole Same as Above
Coordinates:
Ground Elevation (ft): 2278' K.B. Elevation (ft): 2291'
Logged Interval (ft): 3900' To: 4972' Total Depth (ft): 4972'
Formation: Mississippian at Total Depth
Type of Drilling Fluid: Freshwater/Gel to 3298'; Chemical Gel 3298' to 4972'

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OPERATOR

Company: Strata Exploration, Inc.
Address: P.O. Box 401
Fairfield, IL. 62839-0401

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') 4219' - 4236'(Corrected Depths to Log) Test Times 15"-45"-45"-90" IFP Strong Blow BOB/30 Sec., FFP Strong Blow Gas to Surface in 3 Min., Gauged 259 MCFG/45 Min.(= 24# on 0.5" Choke - Gas Burns nicely), No Blowback on SI's; REC: 10' GCM, no Water; IFP 46-110#, ISIP 1442#, FFP 52-54#(NOTE: Changed from 0.25" choke to 0.5" choke during FFP), FSIP 1386# and Building, IHP 2199#, FHP 2074#, BHT 104 Deg. F.

DST #2(Lansing 'B') 4246' - 4266'(Corrected Depths to Log) Test Times 15"-45"-45"-90" IFP Strong Blow BOB/1 Min., FFP Strong Blow Gas to Surface in 20 Min. Gauged 60.9 MCFG/45 Min.(= 24# on 0.25" choke), Weak Surface Blowback on ISI; REC: 70' GCWM(5%G, 30%W, 65%M), 300' SGCSW, CI 90,000, Mud 5000; IFP 29-88#, ISIP 1453#, FFP 44-171#, FSIP 1453#, IHP 2164#, FHP 2120#, BHT 118 Deg. F.

DST #3(Miss. Chert & Dolomite) 4840' - 4864' Test Times 15"-45"-30"-60" IFP Weak Surface Blow, FFP Weak Surface Blow, no Blowback on SI's; REC: 10' Drilling Mud, no show of oil or gas; IFP 20-30#, ISIP 967#, FFP 22-64#, FSIP 935#, IHP 2685#, FHP 2453#, BHT 120 Deg. F.

Comments

12/10/13 MIRU Sterling Drilling Rig #5 Spud at 8:15 PM., 12/11/13 TD. 626' - CCH prior to Wiper Trip; 12/12/13 Drilling at 760'; 12/13/13 Drilling at 2819'; 12/14/13 TD. 3998' - TIH after Bit Trip; 12/15/13 TD. 4239' - TOH w/DST #1; 12/16/13 TD. 4270' - TIH after DST #2; 12/17/13 Drilling at 4688'; 12/18/13 TD. 4864' - TOH with DST #3; 12/19/13 RTD. 4972', LTD. 4968' - Prep. to Set 5 1/2" Casing.

Set new 8 5/8"(23#) Surface Casing at 620' with 365 sacks cement(Basic Energy Services). Cement did Circulate. PD. at 12:30 PM. 12/11/13.

Set new 5 1/2"(15.5#) Production Casing at 4415' with 125 sx. of "Strata Blend" cement(Basic Energy Services). PD. 12:30 PM. 12/19/13. Set Port Collar at 2734'.

Surveys: 0.50 Deg. at 626'(Surface Casing); 0.50 Deg. at 3998' (Bit Trip); 0.75 Deg. at 4239'(DST #1); 0.50 Deg. at 4864'(DST #3).

Pipe Strap at 3998'(Bit Trip): Strap 0.29' Long to the Board, no correction made to the Board.

NOTE: Pulled the PDC Bit at 3998' - drilled remainder of the Hole with conventional "Botton Bit".


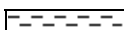

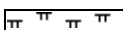
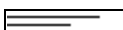
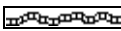




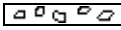


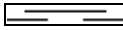

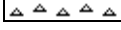


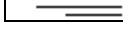

NOTE: A significant 18 Unit Gas Kick was noted in the upper Chase section from 2518' - 2530'(Log depths). This zone should be tested before abandonment of the Miller Trust 'B' #1-1 well.

After review of the Halliburton Logs, DST data, structural position and positive shows of commercial amounts of hydrocarbons, the operator elected to set new 5 1/2" Production Casing for completion in the Lansing 'A' and 'B' zones.








































































LOG TOPS: Chase 2518(-227), Stotler Lmst. 3460(-1169), Howard 3657(-1366), Queen Hill Shale 3958(-1667), Heebner Shale 4075(-1784), Toronto 4095(-1804), Brown Lmst. 4208(-1917), Lansing 'A' 4216(-1925), Lansing 'B' 4244(-1953), L/KC 'H' 4388(-2097), Stark Shale 4537(-2246), Base Kansas City 4618(-2327), Marmaton 4662(-2371), Pawnee 4710(-2419), Cherokee Shale 4754(-2463), Miss. Chert 4833(-2542), Miss. Osage Marker 4870(-2579), Basal Miss. Lmst. 4945(-2654).

NOTE: This log was shifted upward by 3' to 4' for correlation purposes with the Halliburton Logs.

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		Sltstrg
		Hvymin			Pelec		Ssstrg
		Kaol			Pellet	TEXTURE	
		Marl			Pisolite		Boundst
		Minxl			Plant		Chalky
		Nodule			Strom		Cryxln
		Phos		STRINGER			Earthy
		Pyr			Anhy		Finexln
		Salt			Arg		Grainst
		Sandy			Bent		Lithogr
		Silt			Coal		Microxln
		Sil			Dol		Mudst
		Sulphur			Gyp		Packst
		Tuff			Ls		Wackest
					Mrst		
							

OTHER SYMBOLS

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

Vuggy

- SORTING**
- Well
 - Moderate
 - Poor

- ROUNDING**
- Rounded
 - Subrnd
 - Subang
 - Angular

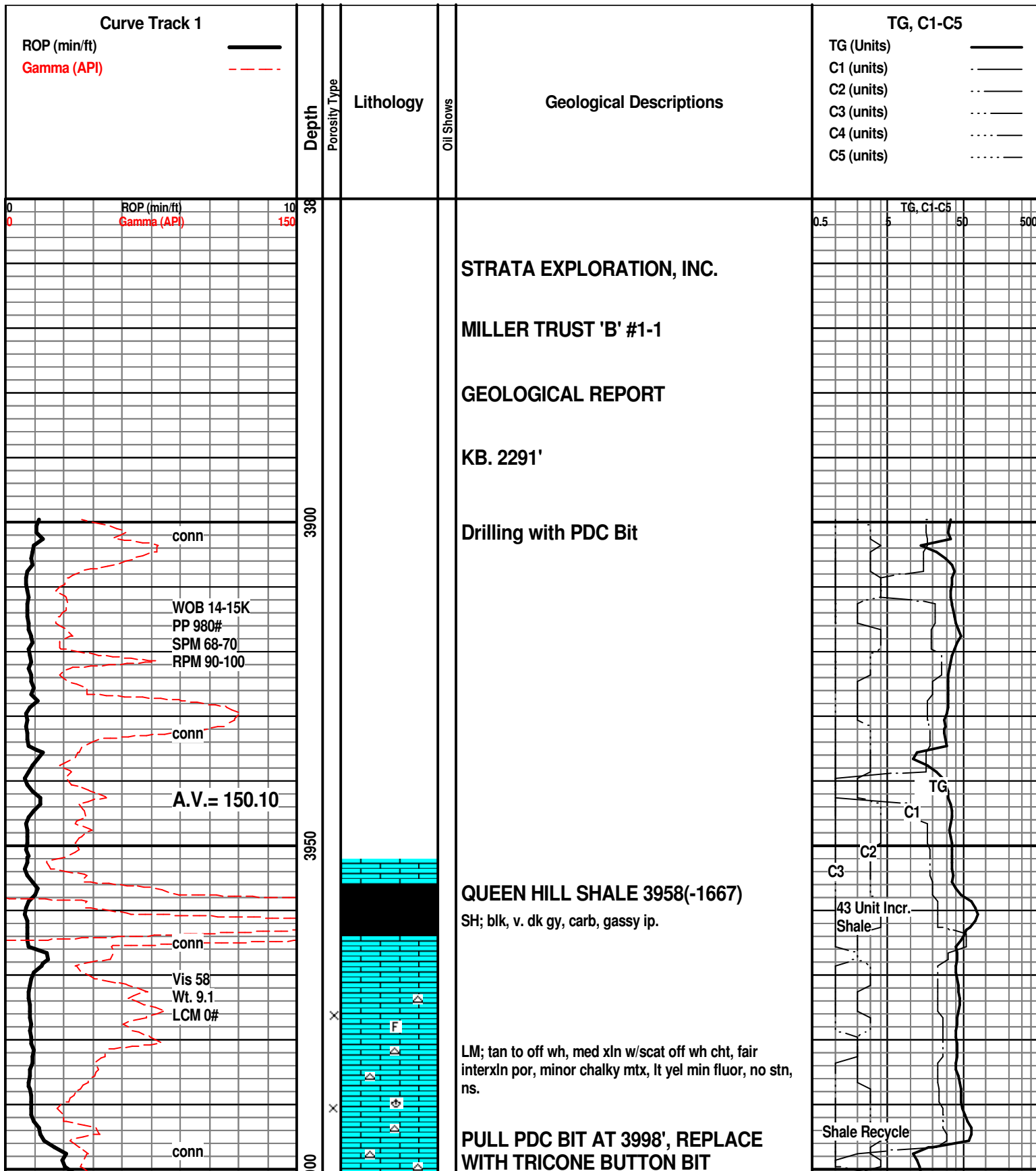
OIL SHOW

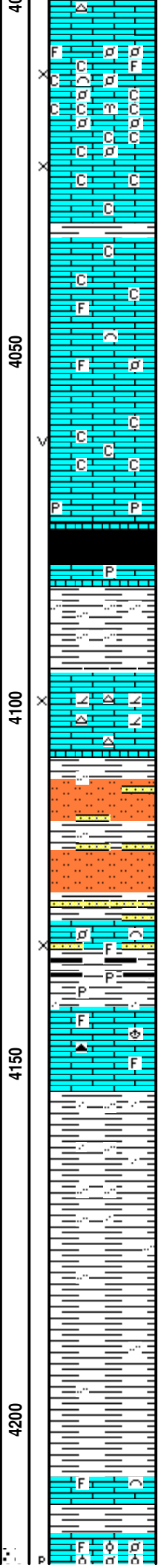
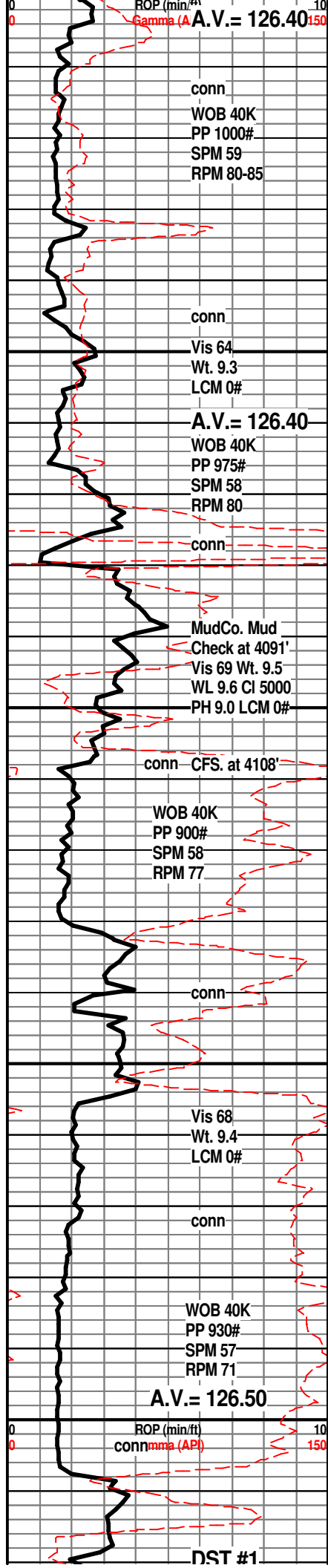
- Even

- Spotted
- Ques
- Dead

- INTERVAL**
- Core
 - Dst

- EVENT**
- Rft
 - Sidewall





LM; lt brn, fxln to micritic, blocky, much tite, scat gy/off wh cht, no fluor, ns.

LM; tan to buff, off wh, foss w/scat pellets and hash, fair interpart por, much soft chalky mtx, no fluor, no stn, ns.

LM; tan to lt brn, off wh, med xln, occ gy cht, much soft chalky and chalky lmst, no fluor, ns.

LM; tan, buff, off wh, med xln w/scat vug por, chalky mtx, duu to lt yel min fluor, no stn or odor, ns.

HEEBNER SHALE 4075(-1784)
SH; blk, carb ip, trc gas, blocky
LM; med to dk brn, dense, rare pyr

SH; grn, gy grn, trc brn, silty ip, firm

TORONTO 4095(-1804)
LM; off wh, buff, fxln, sucrosic text - partly dolomitic, poor to fair interxln por, minor wh cht, lt yel fluor, no stn or odor, no gas kick, quest. gas bubb., interbdd tan fxln lmst w/opaque spar calc bands

DOUGLAS SHALE 4107(-1816)
SH & SLTST; lt gy, mica, interbdd vf to occ f gr qtz ss, soft ip.
LM; lt to med brn, sandy ip, fair interxln por, interbdd hd foss lmst, dull yel fluor, no vis stn, no odor, no sample shows
SH; dk brn, blk, carb/scat coaly frags, sandy ip.
LM; lt to med brn, occ foss, most well cem - micritic, rare brn cht, no vis por, no fluor, ns.

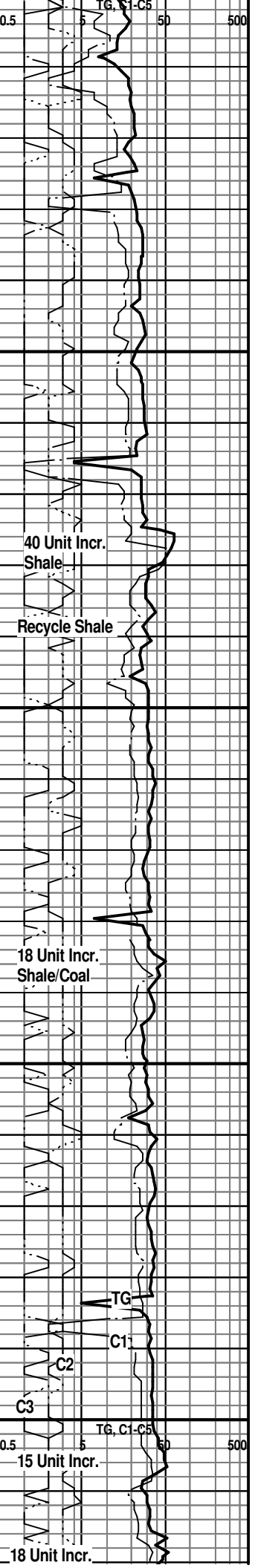
SH; lt to med gy, platy, silty to sandy, some very sticky - gumbo

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

SH; med gy, platy to flakey, smooth

BROWN LMST. 4208(-1917)
LM; med brn, hd, scat foss, tite

LANSING 'A' 4216(-1925)
LM; wh, off wh, foss - oolitic ip, soft, fair/ gd p-p,



DST #1: Lansing 'A' 4219' - 4236'
Corrected

conn
CFS. at 4236'
MudCo. Mud
Check at 4236'
Vis 49 Wt. 9.3
WL 9.2 CI 5000
PH 10.0 LCM 0#

DST #2: Lansing 'B' 4246' - 4266'
Corrected

conn
CFS. at 4266'
MudCo. Mud
Check at 4266'
Vis 69 Wt. 9.3
WL 9.6 CI 6000
PH 9.0 LCM 0#

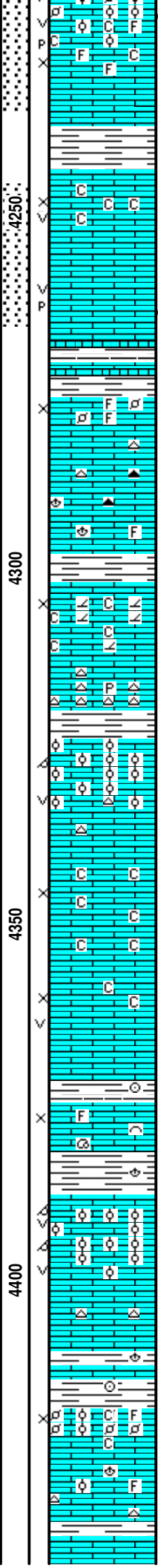
conn
WOB 42K
PP 925#
SPM 57
RPM 73

conn
Vis 57
Wt. 9.3
LCM 0#

WOB 40K
PP 950#
SPM 59
RPM 73
conn

conn
Vis 55
Wt. 9.2
ROP (min) LCM 0#
Gamma (A)

conn



interpart and small vug por, minor chalky mtx, sev. gas bubbles vis, lt yel fluor, trc v. lt brn oil stn, no odor, weak to no cut - GAS SHOW

LM; wh, off wh, foss, fair interpart por, chalky ip, lt yel fluor, few gas bubbles, no odor

DST #1: Lansing 'A' 4219' - 4236'
Corrected Depths to Log
LANSING 'B' 4244(-1953)

LM; off wh, buff, cse xln, fair to gd interxln/occ p-p por, chalky mtx in some, dull yel fluor, no oil stn, no odor, few gas bubbles - GAS SHOW

LM; tan to buff, rare lt gy, foss ip, fairly well dev. p-p and vug por, lt yel fluor, sev. gas bubbles, faint sweet odor, trc lt brn stn, no F.O.

DST #2: Lansing 'B' 4246' - 4266'
Corrected Depths to Log

LM; lt brn, foss - pelletal ip, most well cem, trc poor interpart por, dull yel fluor, no stn or odor, ns.

LM; tan to lt brn, most dense, scat gy to dk gy/smoky cht, no vis por, ns.

SH; med gy, grn, foss ip, platy

LM; off wh, buff, fxln to sucrosic, partly dolomitic, fair interxln por, interbdd soft chalky lmst, dull/lt yel min fluor, no stn or odor, ns.

LM; lt brn, buff, most dense, abnt gy/off wh cht, no vis por, rare pyr, ns.

LANSING 'G' PORO. 4324(-2033)

LM; lt brn, oolitic, med to lrg molds, gd oomoldic por, brittle ip, occ vug por, lt to rarely med yel min fluor, no stn or odor, no vis gas, no sample shows, few pcs. of wh oolitic cht

LM; off wh, wh, fxln, poor interxln por, soft ip. w/interbdd chalky and chalky mtx, no fluor, no stn or odor, ns.

LM; tan to off wh, buff, med xln w/scat vug and interxln por, lt yel fluor, no vis stn, no odor, no gas kick

SH; dk gy, some rust red, brn, platy, foss ip.

LM; med brn, foss ip, trc interpart por, lt yel fluor, ns.

LANSING/KC. 'H' 4388(-2097)

LM; lt to med brn, oolitic, med to occ lrg molds, well dev. oomoldic w/some vug por, brittle ip, lt to med yel min fluor, no stn or odor, no gas kick

LM; lt brn, hd, blocky, scat off wh cht, tite

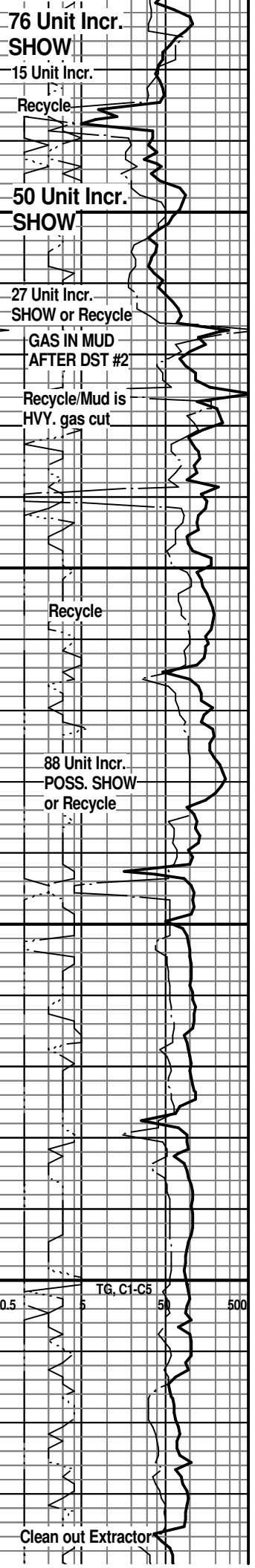
SH; grn, gy grn, foss ip.

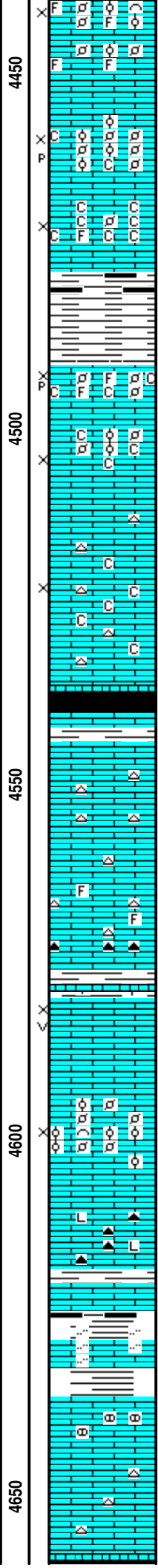
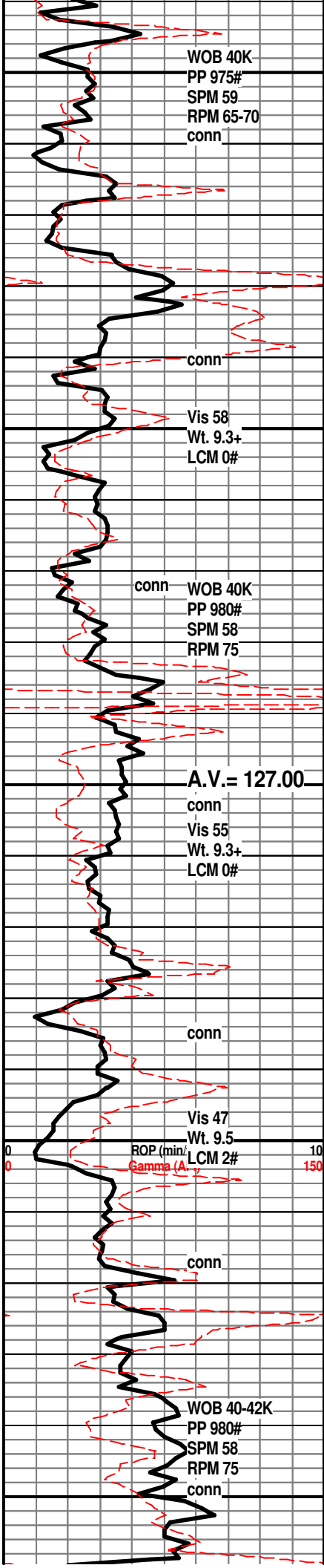
LM; off wh, tan, foss w/scat pellets, ooids and hash, fair interpart por, chalky mtx ip, dull yel to blue wh fluor, no stn odor, ns.

LM; tan to buff, most micritic, blocky, scat wh cht, foss ip - well cem, ns.

K.C. 'I' ZONE 4446(-2155)

LM; off wh, buff, foss - finely pelletal w/foss hash, fair to





LM; off wh, buff, fess, finely porous w/less hash, tan to gd interpart por, scat lt yel fluor, no stn or odor, no gas kick

LM; off wh, buff, lt gy, abnt small foss pellets/ooids, compact, fair to gd interpart w/occ p-p por, minor chalky mtx, no fluor, no stn or odor, no sample shows

LM; tan to off wh, buff, foss ip, much soft chalk and chalky mtx, poor interpart por, dull yel min fluor, no stn, ns.

SH; dk gy, some blk, platy

K.C. 'J' ZONE 4491(-2200)
 LM; off wh, buff, foss w/scat pellets and small ooids, partly soft chalky mtx, poor to fair interpart w/rare p-p por, dull/lt yel min fluor, no stn or odor, no gas kick, ns.

LM; off wh, wh, foss w/scat foss hash/ooids, loosely cem, chalky mtx ip, fair interpart por, no fluor, no stn, ns.

LM; wh, off wh, buff, fxln, fair interxln por, scat soft chalky mtx, dull yel to no fluor, occ wh cht, no stn, no gas kick, ns.

STARK SHALE 4537(-2246)
 SH; blk, carb ip, platy

SWOPE 4544(-2253)
 LM; lt gy, buff, most micritic, blocky, hd, scat tan to lt gy cht, tite, ns.

LM; off wh, tan, buff, fxln w/rare well cem foss mat, cherty ip w/lt brn to blk/smoky cht, no vis por, no fluor, ns.

SH; med gy, foss ip, platy

HERTHA 4580(-2289)
 LM: tan to buff, med to cse xln, fair/gd interxln w/occ vug por, some gran text, no fluor, no stn, no gas kick, ns.

LM; lt brn, foss w/abnt pellets and ooids, scat cse xln lmst also, fair interpart/interxln por, dull yel min fluor, no stn, ns.

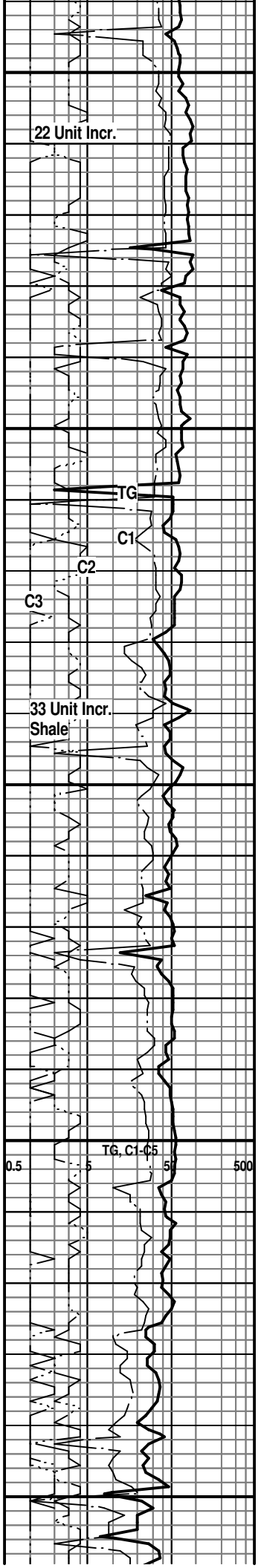
LM; med to dk brn, hd, litho ip, scat dk brn/smoky cht, tite

BASE KANSAS CITY 4624(-2333)
 SH; varic, rust red, brn, grn, blk, platy, occ silty, interbdd hd brn gritty lmst.

PLEASANTON 4636(-2345)
 LM; lt brn, tan, lt gy, occ nodular, most dense, some weathered appear, no vis por, no fluor, ns.

LM; tan to lt brn, hd, most micritic, rare tan cht, no vis por, ns.

SH; dk av. some blk. platy



Vis 54 Wt. 9.4+
WL 9.6 CI 4000
PH 9.0 LCM 2#

conn

WOB 40K
PP 930#
SPM 57
RPM 72

conn

Vis 60
Wt. 9.2
LCM 1#

CFS. at RTD.

4900

4950

5000

50



strong odor, occ cse trans. cse qtz xtals, no fluor

CHT; off wh, gy - blue gy, tan, scat vug por w/occ frags, all fresh, no stn or odor, no fluor, ns.

CHT; lt to med gy, some opaque, fresh, interbdd sucrosic dolo w/med yel min fluor, no stn or odor, ns.

DOL; tan to off wh, buff, sucrosic, med yel min fluor, fair interxln w/occ vug por, no stn or odor, ns.

CHT; off wh, blue gy, some opaque, scat vug por w/rare weathered surfaces, frags, dolomitic ip, scat cse qtz xtals, no fluor, ns.

BASAL MISS. LMST. 4945(-2654)

LM; tan to lt brn, cherty ip, scat cse spar calc xtals, most dense, no vis por, no fluor, ns.

CHT; blue gy, off wh, fresh, sev. cse qtz xtals, no fluor, faint odor, no stn, ns.

LM; tan to off wh, cherty, tite

RTD. 4972' at 1:30 PM. 12/18/13

LTD. 4968'

Halliburton "Quad Stack" ACRT(DIL),
NEU/DEN w/PE, Microlog, Sonic

NOTE: This log was shifted upward by 3' to 4' for correlation purposes with the Halliburton Logs.

TG
C1
C2
C3

10 Unit Incr.

0.5 5 50 500
TG, C1-C5