

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: Todd #3-32
Location: 1910' FSL & 660' FEL, Sec. 32-T27S-R18W, Kiowa Co., KS.
Licence Number: 15-097-21708
Spud Date: 9/26/2011
Surface Coordinates: 1910' FSL & 660' FEL, Sec. 32-T27S-R18W
Region: Einsel Field
Drilling Completed: 10/6/2011

Bottom Hole Same as above
Coordinates:
Ground Elevation (ft): 2209' K.B. Elevation (ft): 2220'
Logged Interval (ft): 3300' To: 4875' Total Depth (ft): 4875'
Formation: Kinderhook at Total Depth
Type of Drilling Fluid: Freshwater/Gel to 3300'; Chemical Mud 3300' to 4875'.

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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') 4209' - 4227'(Corrected Depths to Log) Test Times 15"-45"-45"-90" IFP Strong Blow BOB/10 Sec., FFP Strong Blow BOB/10 Sec., no Gas to Surface, no Blowback on SI's; REC: 1920' Gas in Pipe, 62' SGCM(3%G, 97%M), no Water; IFP 18-29#, ISIP 570#, FFP 24-49#, FSIP 641#, IHP 2033#, FHP 2005#, BHT 111 Deg. F.

DST #2(Miss. Chert) 4791' - 4814'(Corrected Depths to Log) Test Times 15"-45"-45"-90" IFP Strong Blow BOB/1.5 Min., FFP Strong Blow BOB/2 Sec., no Gas to Surface, no Blowback on SI's; REC: 2340' Gas in Pipe, 20' SGCM with a trace of oil, no water; IFP 21-24#, ISIP 1271#, FFP 21-31#, FSIP 1364#(still building), IHP 2351#, FHP 2351#, BHT 121 Deg.

Comments

9/26/11 MIRU Sterling Drilling Co. Rig #2, Spud at 4:15 PM; 9/27/11 TD. 229' - WOC; 9/28/11 Drilling at 618'; 9/29/11 Drilling at 1915'; 9/30/11 Drilling at 2501'; 10/1/11 Drilling at 3240'; 10/2/11 Drilling at 3843'; 10/3/11 TD. 4230' - TIH for DST #1; 10/4/11 Drilling at 4470'; 10/5/11 TD. 4817' - CCH for DST #2; 10/6/11 RTD. 4875' - Rig up Loggers(Halliburton); 10/7/11 RTD. 4875'/LTD 4873' - Cementing 5 1/2" Production Casing.

Set 13 3/8"(54.5#) Conductor at 224' w/300 sx. cement(Basic Energy Services). Cement did Circulate. PD. 12:45 AM. 9/27/11.

Set 8 5/8" (24#) Surface Casing at 604' w/350 sx. cement(Basic Energy Services). PD. 7:30 PM. 9/27/11.

Set new 5 1/2"(15.5#) Production Casing at 4873' w/200 sx. "Strata Blend". PD. 7:30 AM. 10/7/11.

Surveys: 0.75 Deg. at 229(Conductor Casing); 1.25 Deg. at 618'(8 5/8" Surface Casing); 1 Deg. at 4230'(DST #1); 1.25 Deg. at 4817'(DST #2).


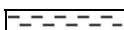

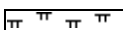
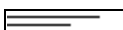
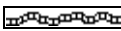




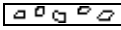


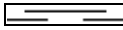

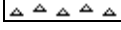


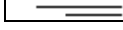

Pipe Strap at 4230'(DST #1): Strap 1.53' Short to the Board, no correction made to the Board.

After review of the Halliburton Logs, DST data, lease position and indications of commercial amounts of hydrocarbons, the operator elected to set new 5 1/2" Production Casing for completion in the Mississippi Chert.








































































LOG TOPS: Chase 2440(-220), Stotler 3399(-1179), Howard 3606(-1386), Heebner Shale 4046(-1826), Toronto 4058(-1838), Brown Lmst. 4198(-1978), Lansing 'A' 4206(-1986), Lans/KC. 'H' 4370(-2150), KC 'I' 4419(-2199), Stark Shale 4507(-2287), Swope 4516(-2296), Hertha 4568(-2348), Base Kansas City 4600(-2380), Marmaton 4648(-2428), Pawnee 4694(-2474), Cherokee Shale 4732(-2512), Miss. Chert 4786(-2566), Kinderhook Shale 4822(-2602), Kinderhook Sand 4844(-2624).

NOTE: This log was shifted upward by 2' - 3' 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**
 [E] Earthy
 [F] Fenest
 [X] Fracture
 [M] Inter
 [O] Moldic
 [P] Organic
 [P] Pinpoint

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

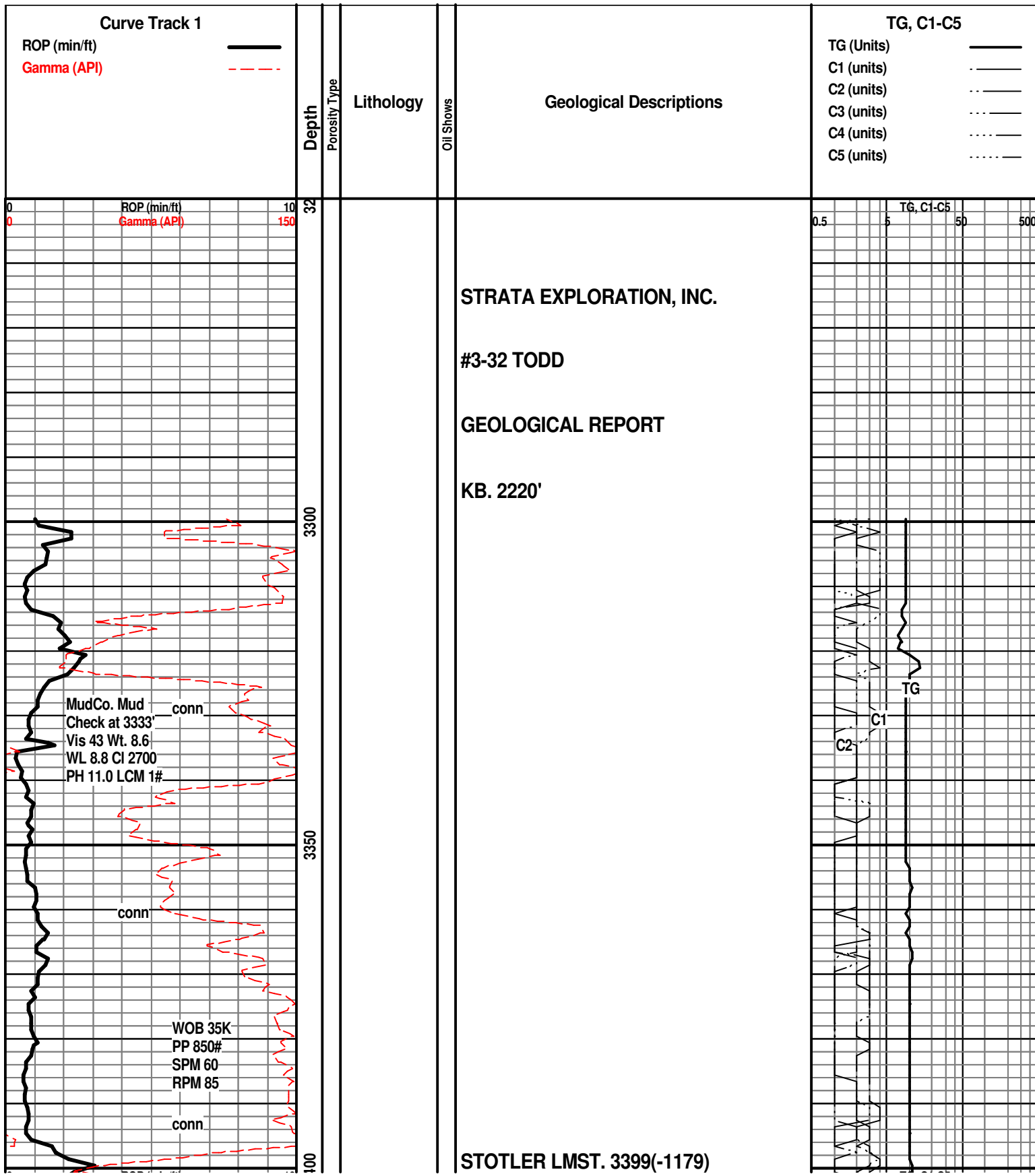
- ROUNDING**
 [R] Rounded
 [r] Subrnd
 [a] Subang
 [A] Angular

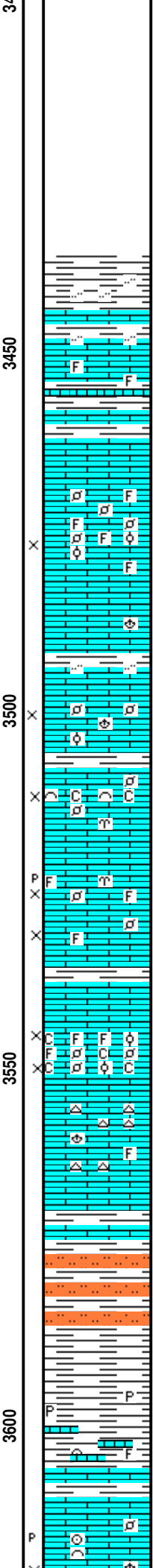
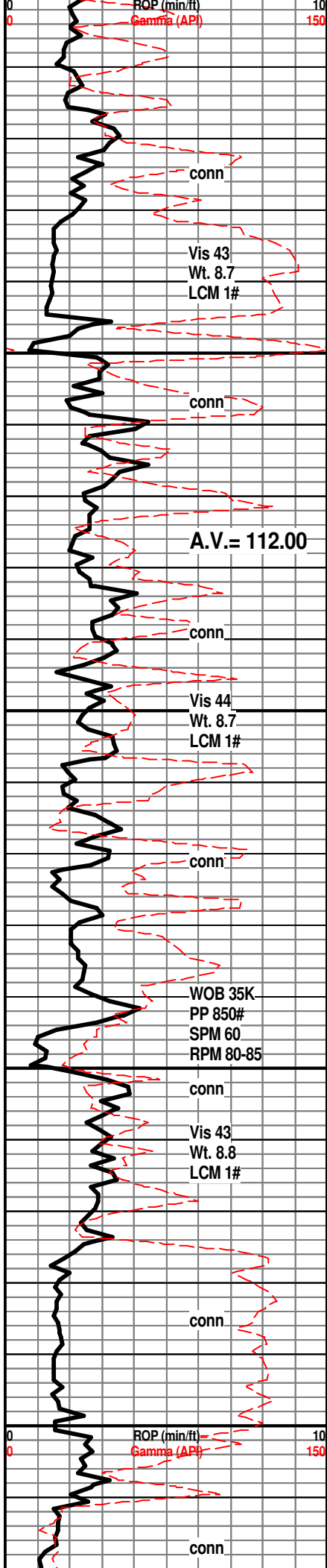
- [S] Spotted
 [Q] Ques
 [D] Dead

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

- INTERVAL**
 [Core] Core
 [Dst] Dst

- OIL SHOW**
 [Even] Even





SH; med gy, fiss, occ silty

10' Samples Start at 3450'

LM; lt to med brn, rare gy brn, hd, foss ip, ns.

SH; lt gy, grn, fiss, soft

LM; med to dk brn, dense, hd, micritic, tite

LM; tan to off wh, v. foss, scat pellets and occ ooids, poor interpart por, scat lt yel min fluor, no stn or odor, no gas kick, ns.

LM; tan to lt brn, buff, fxl n to micritic, hd, no vis por, no fluor, ns.

SH; grn, soft, silty

LM; tan to lt brn, gy brn, scat foss mat, poor to occ fair interpart por, no stn or odor, scat lt yel min fluor, ns.

LM; lt brn, gy brn, buff, v. foss, scat fair interpart por, minor soft chalky mtx, lt yel fluor, no stn, ns.

LM; lt to med gy, gy brn, fxl n, scat foss, occ fair interpart w/p-p por, no stn or odor, lt yel fluor, ns.

LM; wh, off wh, highly foss - partly oolitic, gd interpart por, much soft chalky mtx, lt yel min fluor only, no stn or odor, no gas kick, ns.

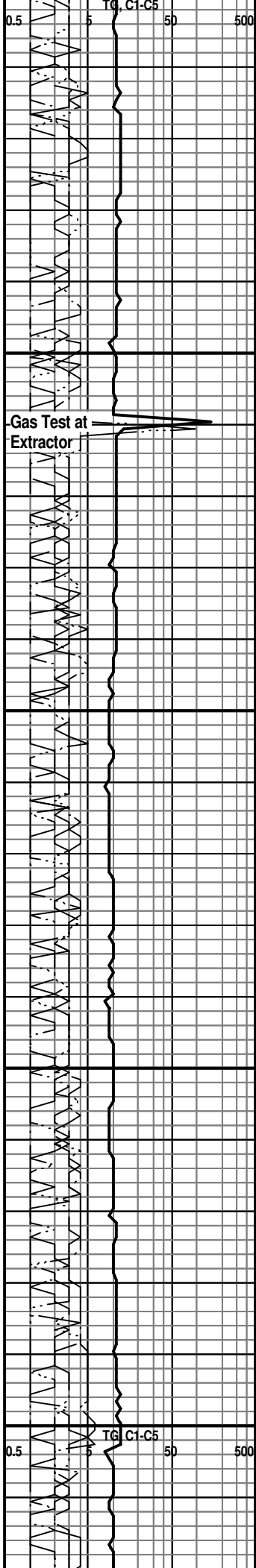
LM; off wh, tan, foss ip, most dense, scat wh to off wh fresh cht, spotted lt yel fluor, no stn or odor, ns.

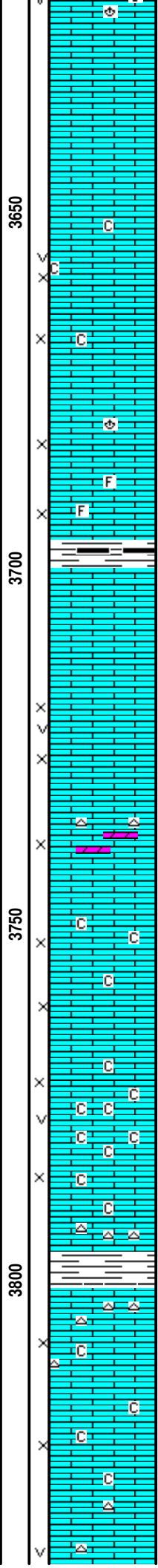
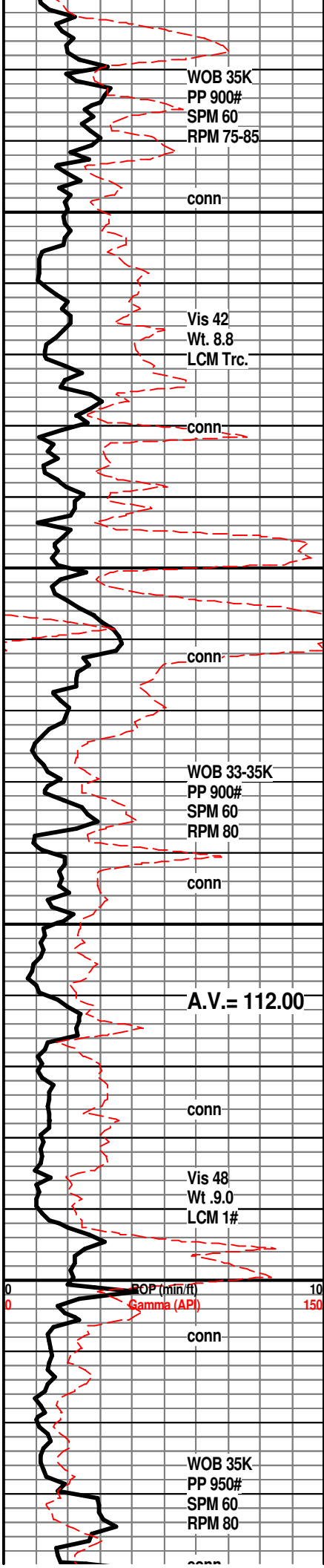
SH; med gy to grn, firm, occ silty, interbdd sltst, platy

SH; lt to med gy grn, fiss, occ pyr

HOWARD 3606(-1386)

LM; wh to off wh, foss to med xln, scat fair p-p and vug por(fair interconn), lt yel fluor, no stn or odor, no gas kick, ns.





LM; tan to buff, rare lt brn, hd, blocky, most massive bdd, no vis por, tite

LM; off wh, tan, buff, med xln, scat cse spar calc xtals, fair interxln por, minor soft chalky mtx, occ vug por, lt yel min fluor only, ns.

LM; tan to off wh, lt brn, med xln, some gran text, fair interxln por, scat foss mat, no stn or odor, ns.

SH; dk gy, trc blk, platy
TOPEKA 3700(-1480)

LM; tan to lt brn, hd, blocky, trc tan cht, tite

LM; off wh, tan to lt brn, f to med xln, fair to gd interxln w/scat vug por, lt yel min fluor, no stn or odor, no gas kick, ns.

LM; tan to lt brn, buff, fxln w/scat sucrosic text, partly dolomitic, fair interxln por, scat lt to med yel min fluor, no stn or odor, no gas kick, ns.

LM; lt brn, buff, f to med xln, fair to gd interxln por, minor soft chalky mtx, no stn, ns.

LM; tan to lt brn, buff, f to med xln, scat gd interxln w/occ vug por, chalky soft mtx, no fluor, ns.

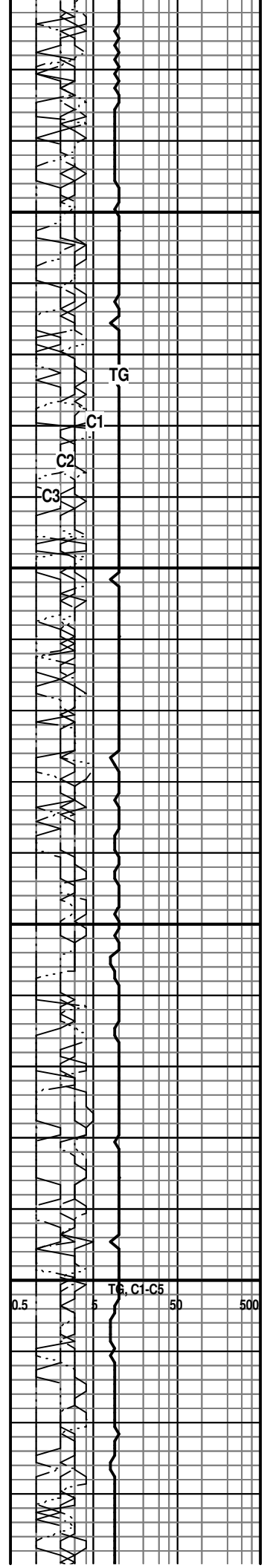
LM; lt brn, hd, micritic, cherty ip, tite

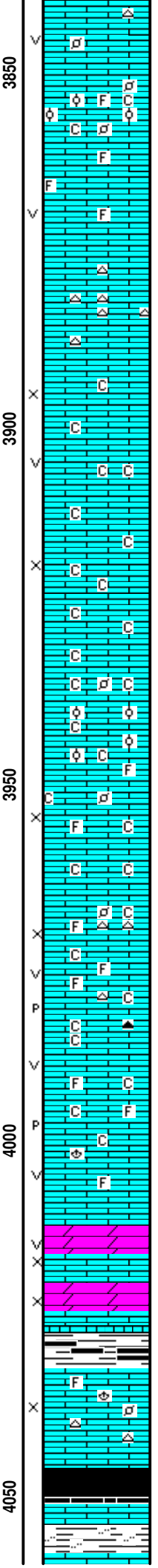
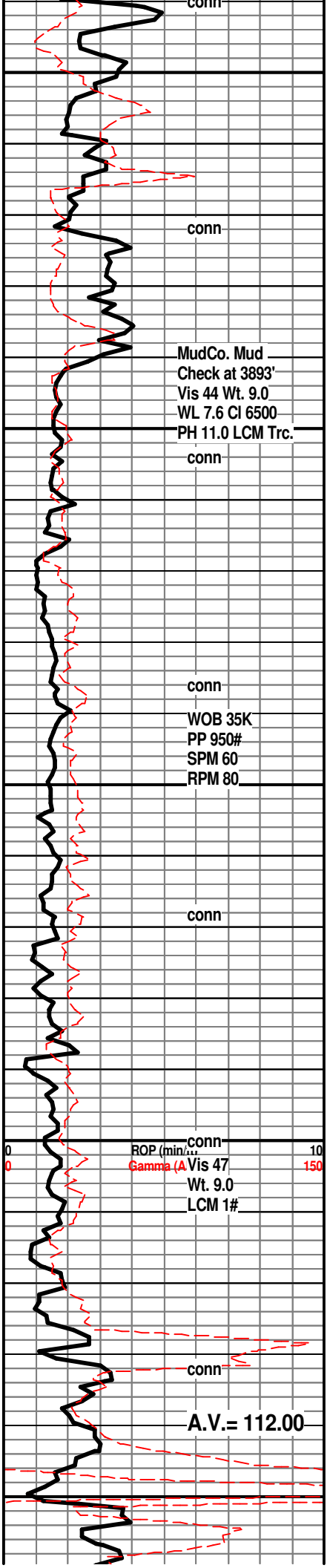
SH; med to dk gy, platy, firm

LM; tan to buff, lt brn, f to med xln, scat cse spar calc xtals, occ gd interxln por, cherty ip, dull yel to no fluor, chalky mtx, no stn or odor, ns.

LM; lt brn, tan, rare off wh, f to med xln, scat sucrosic text, fair to gd interxln por, lt yel min fluor, ns.

LM; lt to med gy, most dense, scat med size vug por,





occ cherty, dull yel to no fluor, no stn, ns.

LM; tan, lt gy brn, off wh, foss w/scat pelletal to partly oolitic lmst, fair interpart por, soft chalky mtx ip, no fluor, no stn or odor, ns.

LM; tan to lt gy, foss ip, scat fair vug por, lt yel fluor, no stn, ns.

LM; tan to lt brn, blocky, occ wh/gy foss fresh cht, no vis por, ns.

LM; tan to cream, buff, med xln, chalky soft mtx ip, fair interxln w/scat vug por, rare cse spar calc xtals, dull yel min fluor, no stn or odor, no gas kick, ns.

LM; tan to buff, f to med xln, fair interxln por, chalky mtx, soft ip, scat wh to off wh cht, no fluor, no stn or odor, ns.

LM; tan to cream, buff, med to cse xln, scat foss - pellets and foss hash, chalky soft mtx, fair interpart por, occ cherty, no fluor, no stn or odor, ns.

LM; tan to lt brn, buff, f to med xln, scat gd interxln w/occ vug por, rarely foss, chalky - soft mtx, dull yel min fluor, scat off wh to dk gy cht, ns.

LM; tan, buff, lt brn, med to occ cse xln, fair interxln por, interbdd foss lmst w/gd interpart/vug and occ p-p por, lt yel min fluor, no stn or odor, ns.

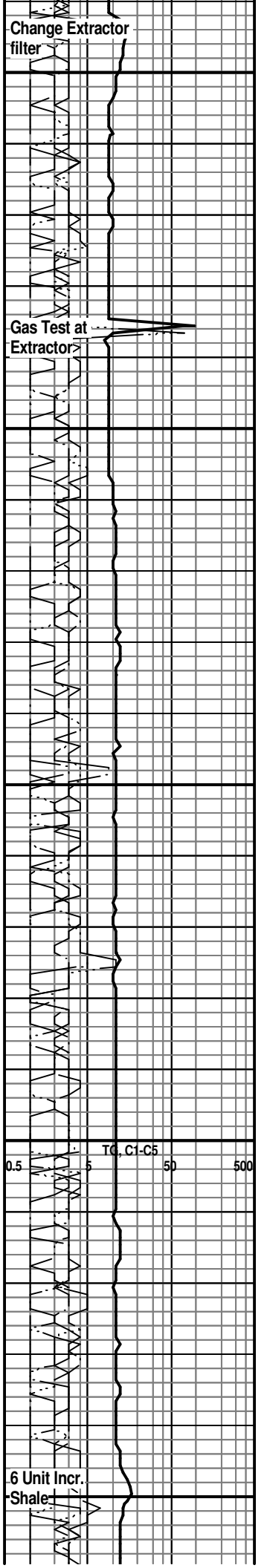
DOL; lt gy to lt gy brn, sucrosic to finely rhombic, gd interxln w/scat vug por, interbdd cse opaque spar calc xtals, pale yel min fluor, no stn, ns.

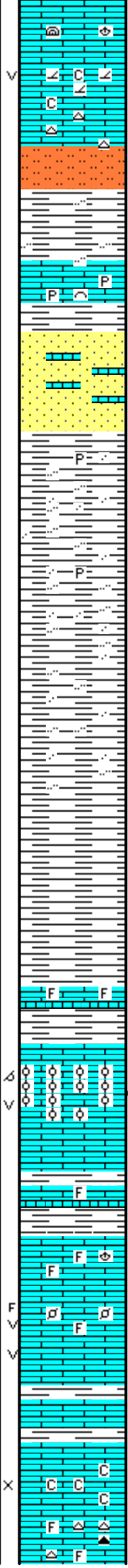
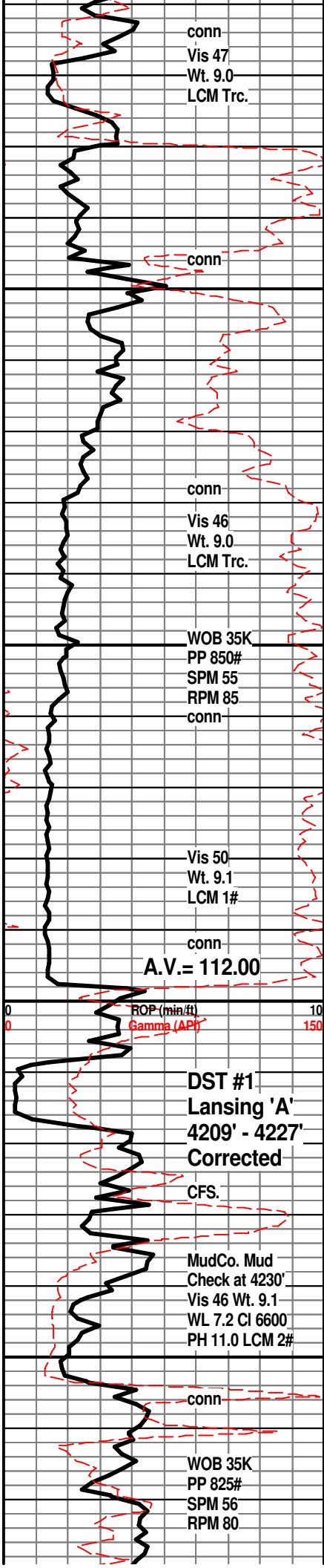
SH; dk gy, occ blk, platy

LM; tan to lt brn, foss ip, most f to occ med xln, poor to fair interxln por, trc wh cht, no fluor, no stn or odor, ns.

HEEBNER SHALE 4046(-1826)
SH; blk, carb ip, platy
LM; med brn, med gy brn, hd, dense
SH; lt to med grn, gy grn, silty ip.

TORONTO 4058(-1838)





LM; med brn, hd, foss, well cem, tite

LM; lt gy, off wh, wh, fxln to sucrosic text, partly dolomitic, scat fair vug por, chalky mtz ip, lt yel fluor, no stn or odor, ns.

DOUGLAS SHALE 4080(-1860)
SLTST; lt gy, soft, platy, occ mica

SH; lt to med gy, fiss, soft, occ silty

LM; med gy, gy brn, foss, hd, pyr ip.

SS; lt gy, vf gr qtz, hd, well cem, calc, interbdd hd sandy lmst, mica ip, tite

SH; lt to med gy, firm, platy, silty to sandy, rarely pyr

SH; most med gy, firm, silty to sandy

SH; lt to med gy, grn, platy, occ foss w/rare carb strks.

SH; med gy, soft, flakey, rarely silty

BROWN LMST. 4198(-1978)
LM; med to dk brn, foss ip, hd, blocky

LANSING 'A' 4206(-1986)
LM; tan to med brn, oolitic, med to lrg molds, well dev. oomoldic por, occ vug por, brittle, med to brite yel fluor, few gas bubbles, rare spotted med brn stn, no odor, poor/no cut, pred. gas show

DST #1: Lansing 'A': 4209' - 4227' Corrected Depths to LOG

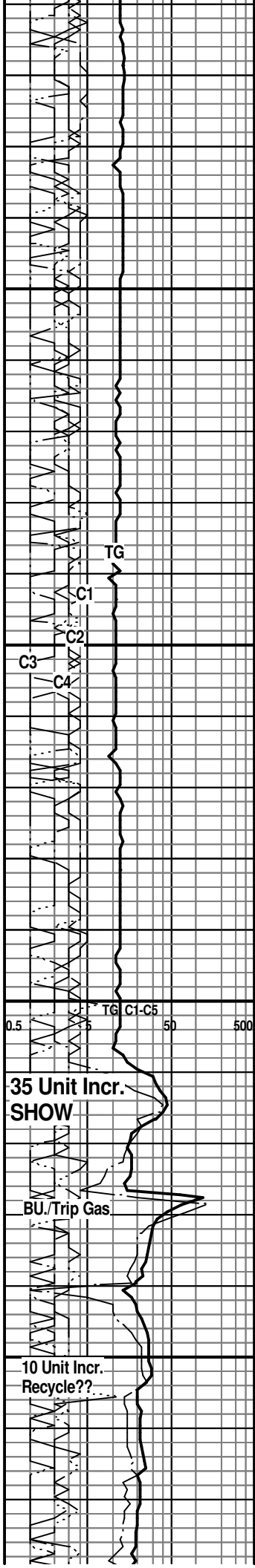
LANSING 'B' 4233(-2013)
LM; tan to buff, lt gy, hd, most micritic, rare well cem foss, no vis por, ns.

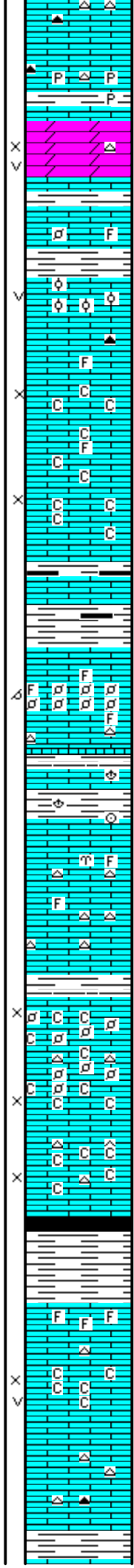
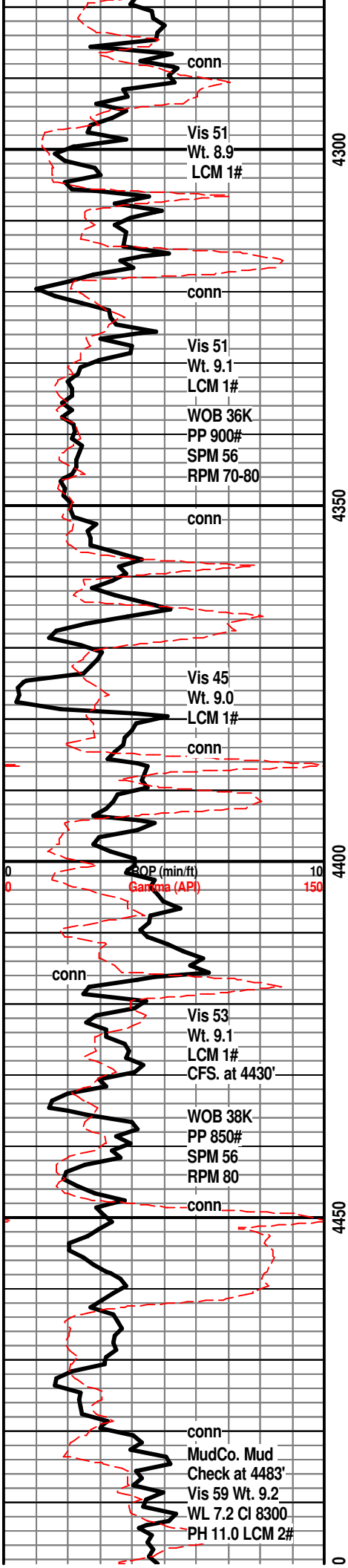
LM; lt gy, lt gy brn, foss ip, scat fracs w/cse spar calc xtals on frac faces, well dev. vuggy lmst also, lt yel fluor, no stn or odor, barren, no sample shows

SH; dk gy, dk gy grn, platy

LM; off wh, wh, tan, med xln, fair interxln por, much soft chalky mtz, dull yel fluor, no stn or odor, ns.

LM; tan to lt brn, most dense, scat well cem foss mat,





cherty w/gy to smoky cht, tite

LM; med to dk brn, hd, occ pyr, dense, cherty

SH; dk gy, fiss, occ pyr

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

LM; med brn, rare gy brn, foss ip, most dense,

LM; lt brn, lt gy brn, fxln, well dev. vug por, oolitic ip, scat cse spar calc xtals and overgrowths, lt yel min fluor, no stn, ns.

LM; off wh, tan, f to med xln, fair interxln por, much soft chalky mtx, rarely foss, dull yel min fluor, no stn, no gas kick, ns.

LM; off wh, wh, tan, f to med xln, rare gran text, fair interxln por, chalky-soft, ns.

SH; dk gy, trc blk, fiss

LANS/KC. 'H' 4370(-2150)

LM; tan to buff, rare lt gy, oolitic to oolitic, much foss hash w/oolites, gd oomoldic por, brittle, lt yel min fluor only, no stn or odor, no gas kick, ns.

SH; med to dk gy, platy, occ foss

LM; tan to buff, fxln, scat well cem foss mat, cherty ip, most dense, no vis por, no fluor, ns.

LM; tan to lt brn, blocky, occ cherty, most tite, ns.

KC. 'I' 4419(-2199)

LM; off wh, buff, foss - finely pelletal, much soft chalky mtx, poor vis interpart por, most well cem - tite, dull yel fluor, no stn or odor, no gas kick, ns.

LM; tan to buff, off wh, f to med xln, rarely foss, soft chalky mtx ip, no fluor, no stn or odor, no gas kick, ns.

LM; wh, off wh, tan, fxln, v. soft - chalky mtx, trc poor interxln por, no fluor, no stn, ns.

SH; dk gy-blk, platy, firm

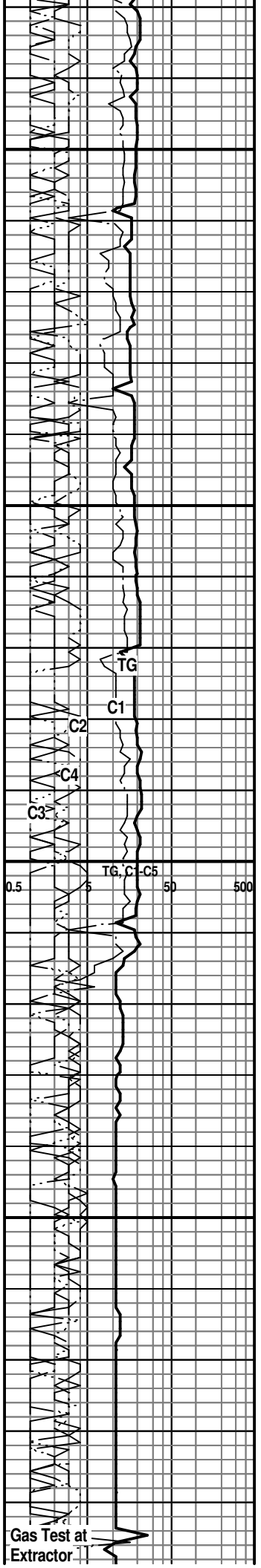
KC. 'J' DENNIS 4462(-2242)

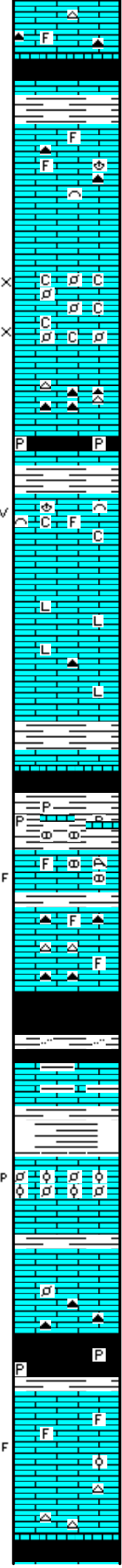
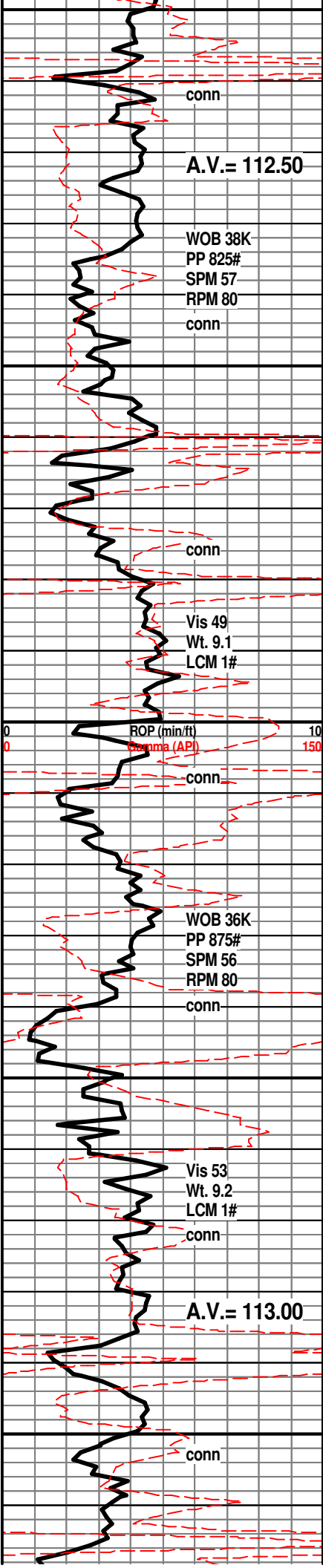
LM; tan to lt brn, buff, foss ip, well cem, no vis por, scat tan cht, no fluor, ns.

LM; tan to cream, off wh, med xln, gd interxln w/scat vug por, soft chalky mtx ip, no fluor, no stn or odor, no gas kick, ns.

LM; lt to med brn, hd, blocky, scat tan/amber cht, tite(faint odor in samples - ??)

SH; med gy, gy brn, lmy





LM; med brn, hd, micritic, scat tan/amber cht

STARK SHALE 4507(-2287)

SH; blk, carb ip, platy

SWOPE 4516(-2296)

LM; lt to med gy brn, med brn, foss ip, most well cem, scat amber/brn fresh cht, no fluor, ns.

LM; tan to buff, off wh, f to med xln, fair interxln por, much soft chalky mtz, occ small foss. pellets, trc. lt brn oil stn(very scattered - rare), dull yel fluor, no gas kick, quest. odor, no cut

LM; lt brn, buff, hd, most micritic, blocky, occ amber to tan cht, tite

SH; blk, carb ip, occ pyr

HERTHA 4568(-2348)

LM; wh, off wh, buff, fxln, scat cse foss frags, minor chalky mtz, scat vug por, lt yel min fluor, no stn or odor, no gas kick, ns.

LM; med to dk brn, rare dk gy, dense, litho, hd, trc blk cht, tite

BASE KANSAS CITY 4600(-2380)

LM; dk brn, dk gy brn, hd, blocky, tite

SH; med gy grn, blk, pyr ip, fiss to flakey, interbdd nodular brn/gy lmst.

PLEASANTON 4618(-2398)

LM; lt to med brn, foss ip, most micritic, blocky, scat lt yel fluor, no vis stn, trc frags w/cse spar calc xtals, poss faint fleeting odor

LM; med brn, foss, well cem, scat amber/smoky/gy cht, hd, no vis por, no fluor, n.s

SH; dk gy, blk, grn, soft, silty ip.

MARMATON 4648(-2428)

LM; med brn, pale grn tint, argil ip, hd, blocky

SH; med gy, grn, some varic. sh

LM; tan to lt brn, buff, foss - oolitic ip, occ pelletal, most well cem, scat p-p por, lt to med yel fluor, rare dk brn oil stn, no odor, weak/no cut, most looks tite

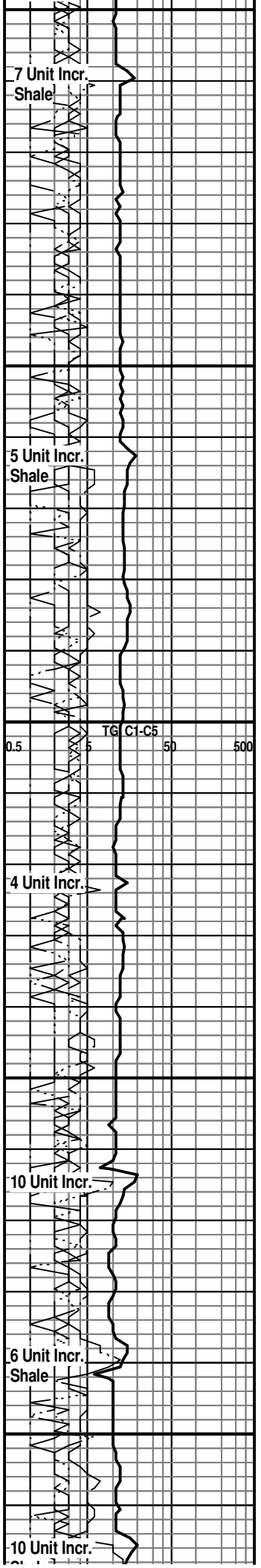
LM; tan to lt brn, most dense, blocky, scat amber to org cht, foss ip, hd, ns.

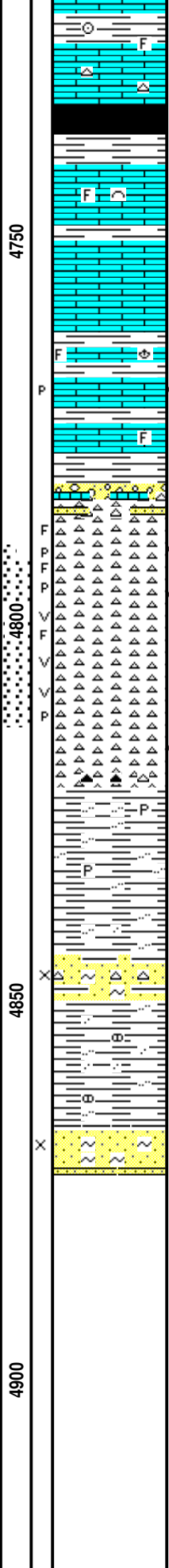
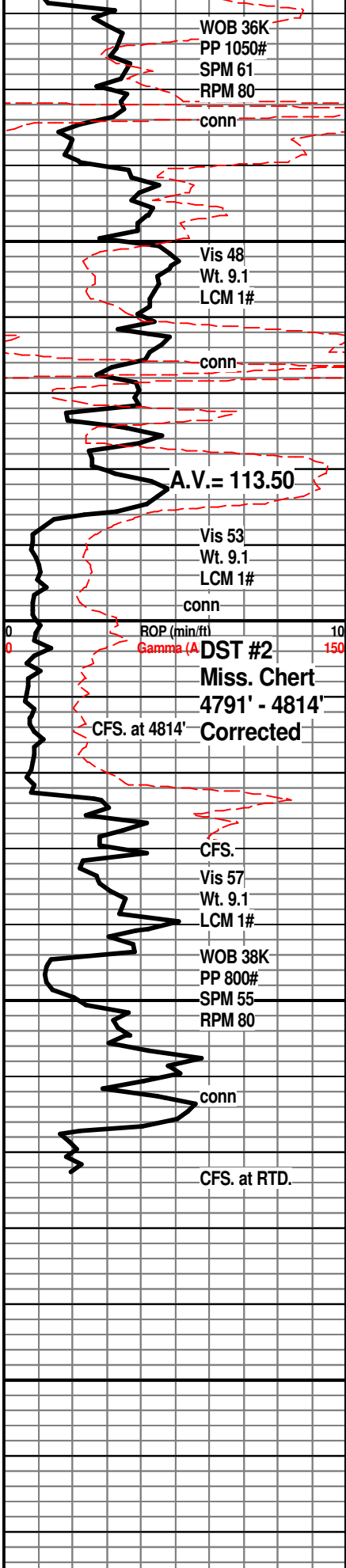
SH; blk, carb ip, platy, rare pyr

PAWNEE 4694(-2474)

LM; tan to lt brn, foss ip, scat poor interpart por, trc frags, dull yel min fluor, no vis stn, no odor, ns.

SH; blk, platy, carb ip





SH; dk gy, grn, firm, occ foss

LM; lt to med brn, buff, scat foss mat, well cem, occ gy to tan cht, no vis por, ns.

CHEROKEE SHALE 4732(-2512)
SH; blk, dk gy, platy, firm

LM; tan to lt brn, hd, most dense, rare well cem foss, no vis por, ns.

LM; tan to lt brn, buff, fxln, blocky, most dense, no vis por, no fluor, ns.

LM; tan to off wh, f to med xln, scat foss mat, no vis por, ns.

LM; off wh, tan, fxln, scat lt to med brn uneven oil stn, occ p-p por, rare blk tar/dead oil, lt yel fluor, no odor, poor cut

SH; varic, gy, grn, lavender, firm

MISSISSIPPI CHERT 4786(-2566)
CHT; wh, off wh, occ transl., fresh w/tripolite, frags and fair p-p/trip por, scat med brn live oil stn, faint odor, trc F.O, med yel fluor

CHT; wh, off wh, pred fresh fractured, bands of weathered tripolite w/v. gd vug por w/SSFO, faint odor, spotted to rarely even med brn stn, med to brite yel fluor, few gas bubbles, gd cut

CHT; wh to off wh, most fresh cht, bands of well weathered w/p-p and vug por, SSFO, gas bubbles, med to brite vel fluor. faint odor

DST #2: Miss. Chert 4791' - 4814'
Corrected Depths to Log

CHT; wh, org, amber, off wh, fresh/trip, scat vug por w/live oil stn, faint odor, some blk tar/gils.

KINDERHOOK SHALE 4822(-2602)
SH; med gy to grn, some varic rust red/brn/maroon sh, occ pyr, firm, silty ip.

KINDERHOOK SS 4844(-2624)
SS; wh, pale grn, v. soft, vf gr qtz, good intergran por, interbdd off wh sandy wh cht, no stn or odor, no fluor, ns.

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

SS; wh, pale grn, f gr qtz, soft, gd intergran por, well srt, glau ip, no fluor, no stn or odor, ns.

RTD. 4875' at 2:15 AM. 10/6/11

LTD. 4873'

Halliburton DIL, NEU/DEN, Microlog, MRIL

NOTE: This log was shifted upward for correlation purposes with the Halliburton LOGS.

