

# LITHOLOGY STRIP LOG

## WellSight Systems

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

Well Name: Miller Trust #1-36  
Location: 460' FSL & 703' FEL, Sec. 36-T26S-R20W, Edwards Co., KS.  
Licence Number: 15-047-21610-0000 Region: Wildcat  
Spud Date: 7/6/2012 Drilling Completed: 7/16/2012  
Surface Coordinates: 460' FSL & 703' FEL, Sec. 36-T26S-R20W

Bottom Hole Same as Above  
Coordinates:  
Ground Elevation (ft): 2255' K.B. Elevation (ft): 2264'  
Logged Interval (ft): 3100' To: 4920' Total Depth (ft): 4920'  
Formation: Mississippian at Total Depth  
Type of Drilling Fluid: Freshwater/Gel to 3060'; Chemical Gel 3060' to 4920'

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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(Toronto) 4043' - 4079'(Corrected Depths to LOG) Test Times 15"-45"-45"-90" IFP Strong Blow BOB/2 Sec., FFP Strong Blow Gas to Surface in 3 Min. Gauged Max. 32.0 MCFG(5.5# on 0.25" Choke), no Blowback on SI's; REC: 120' Drlg. Mud, 120' WM w/few oil specks(29%W, 71%M) CI 126,000, Mud 6300; IFP 33-45#, ISIP 1435#, FFP 48-96#, FSIP 1399#, IHP 2002#, FHP 1940#, BHT 112 Deg. F.

DST #2(Lansing 'A') 4188' - 4204'(Corrected Depths to LOG) Test Times 15"-45"-45"-90" IFP Strong Blow Gas to Surface in 3 Min., FFP GTS throughout Gauged Max. 709 MCFG/45"(31# on 0.75" Choke), no Blowback on SI's; REC: 25' SGCM, no water, no oil; IFP 100-147#, ISIP 1458#, FFP 114-112#, FSIP 1449#, IHP 2045#, FHP 2043#, BHT 98 Deg. F.

DST #3(Miss. Chert/Dolomite) 4812' - 4847'(Corrected Depths to LOG) Test Times 15"-45"-45"-90" IFP Strong Blow BOB/90 Sec., 1.5" Blowback on ISI; FFP Strong Blow BOB/80 Sec., no Gas to Surface; REC: 320' MSW w/oil spots(68 %M, 32%W), 2980' GSW(3%G, 97%W), CI 74,000, Mud 6600 (NOTE: Measured 500 PPM H2S); IFP 341-896#, ISIP 1521#, FFP 887-1505#, FSIP 1521#, IHP 2402#, FHP 2368#, BHT 131 Deg. F.

## Comments

7/6/12 MIRU Sterling Drilling Co. Rig #4, Spud at 5:00 PM.; 7/7/12 TD. 525' - WOC; 7/8/12 Drilling at 1180'; 7/9/12 Drilling at 2445'; 7/10/12 Drilling at 2970'; 7/11/12 Drilling at 3575'; 7/12/12 TD. 4083' - CCH prior to TOH for DST #1; 7/13/12 TD. 4208' - TIH for DST #2; 7/14/12 Drilling at 4500'; 7/15/12 TD. 4851' - CFS; 7/16/12 RTD. 4920' - CCH for Logs; 7/16/12 RTD. 4920' - LTD. 4916' - LDDP to run 5 1/2" Production Casing.

Set new 8 5/8"(23#) Surface Casing at 523' w/350 sx. cement(Basic Energy Services). Cement did Circulate. PD. 7:00 AM. 7/7/12.

Set new 5 1/2" (15.5#) Production Casing at 4915' with 250 sx. "Strata Blend" cement(Basic Energy Services). PD. 4:30 PM. 7/16/12.

Surveys: 0.5 Deg. at 530'(Surface Casing); 0.75 Deg. at 4083'(DST #1); 0.75 Deg. at 4851'(DST #3).


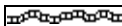
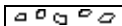

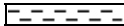













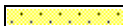
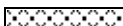
Pipe Strap at 4083'(DST #1): Strap 0.68' Short to the Board, no correction made to the Board.

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" Production Casing for completion in the Lansing "A" and Toronto zones.







































































LOG TOPS: Chase 2483(-219), Stotler Lmst. 3430(-1166), Howard 3626(-1362), Heebner Shale 4046(-1782), Toronto 4066(-1802), Brown Lmst. 4177(-1913), Lansing "A" 4184(-1920), Lansing/KC. "H" 4362(-2098), Stark Shale 4508(-2245), Base KC. 4590(-2326), Marmaton 4630(-2366), Pawnee 4680(-2416), Cherokee Shale 4722(-2458), Miss. Unconformity 4796(-2532), Basal Miss. Lmst. 4886(-2622).

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

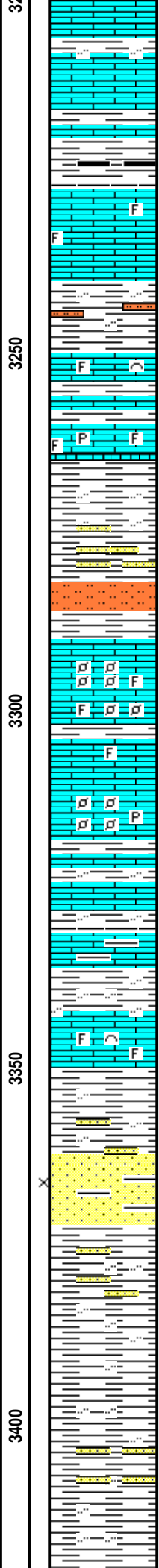
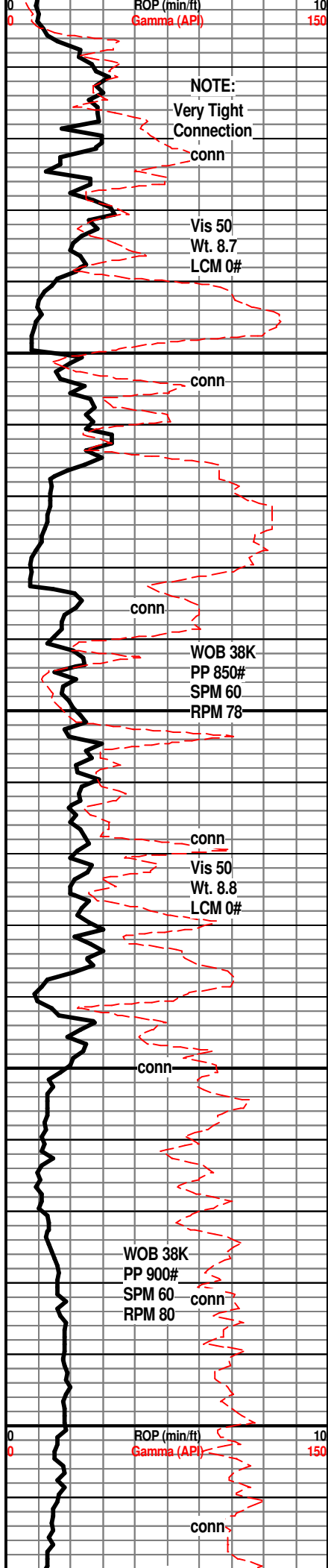
### ROCK TYPES

 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  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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cherty med, dk. yel med, no stn or odor, no gas kick, interbdd gy silty shale and trc. sltst., ns.

LM; med gy brn, hd, dense, no vis por, ns.

SH; dk gy, trc blk, platy

LM; med to dk gy, gy brn, hd, blocky, scat well cem foss mat, tite

SH; lt to med gy, silty ip w/interbdd sltst, soft

LM; lt to med brn, hd, scat well cem foss, some dense micrite, med yel min fluor ip, no vis por

LM; med gy brn, med gy, micritic, dense, scat well cem foss, minor pyr, tite

SH; lt gy, grn, silty, soft, interbdd vf gr shaly ss

**WABAUNSEE 3290(-1026)**  
LM; lt brn, buff, tan, foss ip - finely pelletal, most well cem, no vis por, occ lt yel min fluor, no stn or odor, ns.

LM; lt to med brn, foss ip, scat pelletal lmst, most well cem, scat med yel min fluor, minor pyr, hd, no stn or odor, ns.

SH; med gy, grn, firm, occ silty

LM; med gy brn, argil, hd, blocky

SH; grn, gy grn, silty, soft

LM; med brn, foss ip, hd, lt yel min fluor, no vis por, ns.

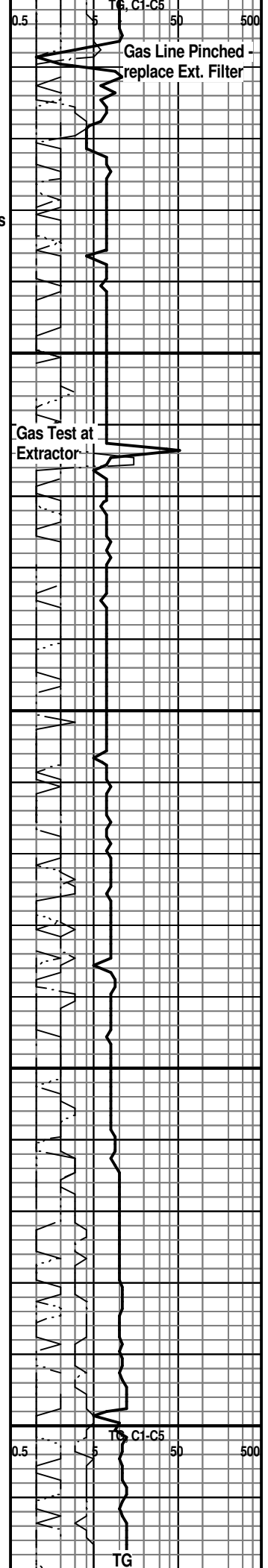
SH; lt to med gy, silty to occ sandy, fiss

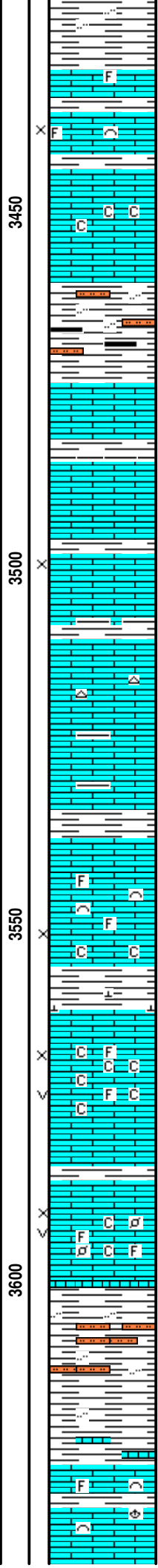
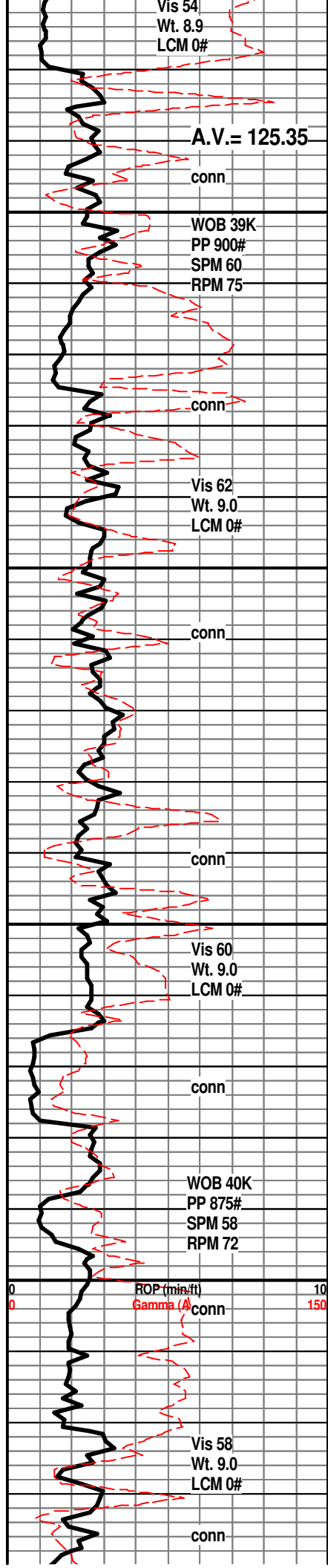
**LANGDON SS 3360(-1096)**  
SS; lt gy, vf to rarely f gr qtz, mica, firm, poor to fair intergran por, some argil, no fluor, no stn or odor, no gas kick, ns.

SH; lt gy, v. soft, sticky ip, some gumbo

SH; lt to med gy, v. soft ip, sticky, occ silty

SH; lt gy, soft, sandy ip.





**STOTLER LMST. 3430(-1166)**

LM; off wh, tan, fxln w/scat foss mat, trc poor interxln por, lt yel min fluor, no stn, no gas kick, ns.

LM; off wh, tan, lt gy, fxln to micritic, most dense, trc wh soft chalk and chalky lmst, lt to med yel min fluor, ns.

SH; med gy, silty ip, interbdd sltst, firm to soft

SH; med to dk gy, trc blk, platy

LM; lt to med gy, hd, blocky, micritic, tite

LM; med brn to med gy brn, foss ip, hd, well cem, no vis por, ns.

LM; tan to cream, buff, fxln w/occ gritty text, trc poor interxln por, lt yel fluor, ns.

SH; med gy, grn, interbdd hd argil lmst.

LM; tan to lt brn, fxln ip, most dense micrite, rare off wh cht, no vis por, tite

LM; med gy to gy brn, foss, interbdd hd shaly lmst, no vis por, no fluor, ns.

LM; off wh, buff, tan, f to med xln, some partly chalky mtx, trc poor interxln por, minor foss mat, lt yel min fluor, no stn or odor, ns.

SH; dk gy, platy, calc

LM; off wh, tan, buff, gran to med xln, v. gd interxln w/scat small vug por, scat foss mat, interbdd chalk and chalky mtx, lt yel fluor, no stn or odor, slight gas increase, no stn, no sample shows

LM; tan to cream, buff, foss w/fair interpart por, occ vug por, partly chalky mtx, lt yel min fluor, no stn, no gas kick, ns.

SH; lt to med gy, silty w/interbdd sltst, firm

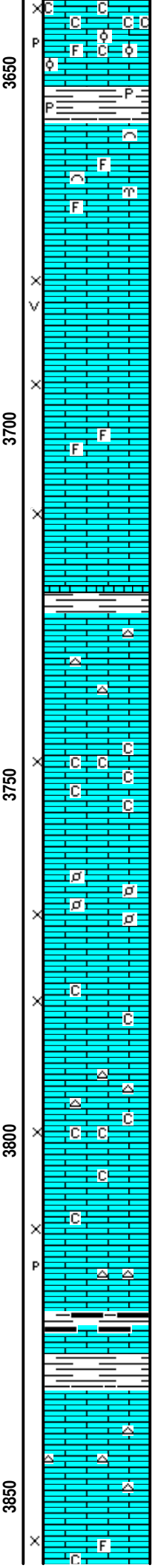
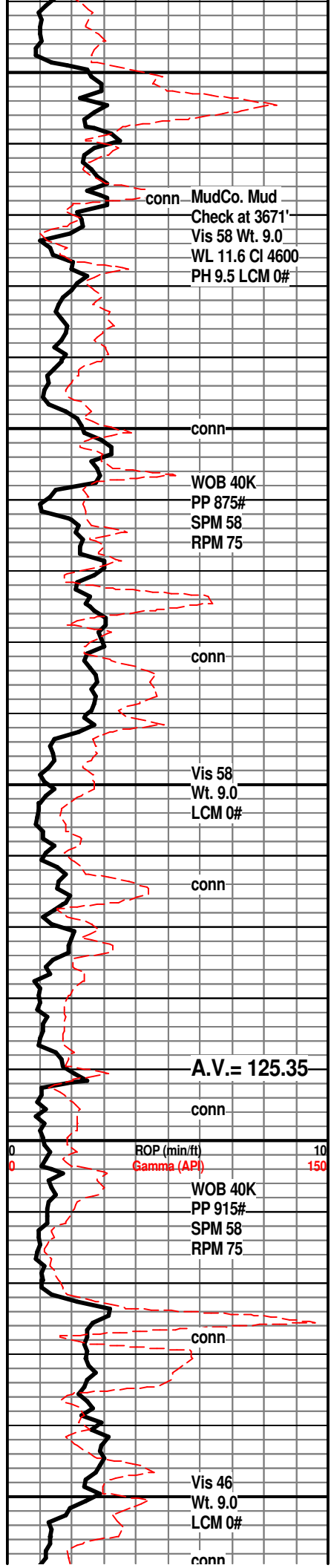
SH; med gy, gy brn, lmy w/interbdd hd lmy sh

**HOWARD 3626(-1362)**

LM; off wh, tan, buff, fxln w/scat foss mat, hd, interbdd shaly lmst, ns.

LM; off wh. tan. buff. f to med xln. interbdd v.





foss/partly oolitic lmst, fair to gd interpart w/occ p-p por, soft chalky mtz ip, lt yel min fluor, no stn or odor, no gas kick, barren

SH; med to dk gy, pyr ip, firm

LM; tan to lt brn, foss ip, scat cse spar calc xtals, most well cem, dull yel min fluor, no vis por, ns.

LM; tan to off wh, buff, fxln w/fair to occ gd interxln w/scat vug por, lt yel fluor, no stn, no gas kick, ns.

LM; lt to med brn, blocky, hd, most micritic, scat foss mat, no vis por, ns.

LM; tan to lt brn, buff, f to med xln, some gran text, fair interxln por, scat lt yel fluor, ns.

SH; med to dk gy, firm  
**TOPEKA 3726(-1462)**

LM; tan to lt brn, most dense, micritic, rare lt brn cht, hd, no vis por, no fluor

LM; off wh, tan, cream, f to med xln, fair interxln por, much soft chalky mtz, scat lt yel min fluor, no stn, no sample shows

LM; tan to buff, cream, f to med xln, occ gran text, poor to fair interxln por, interbdd finely pelletal lmst, spotty lt to med yel fluor, ns.

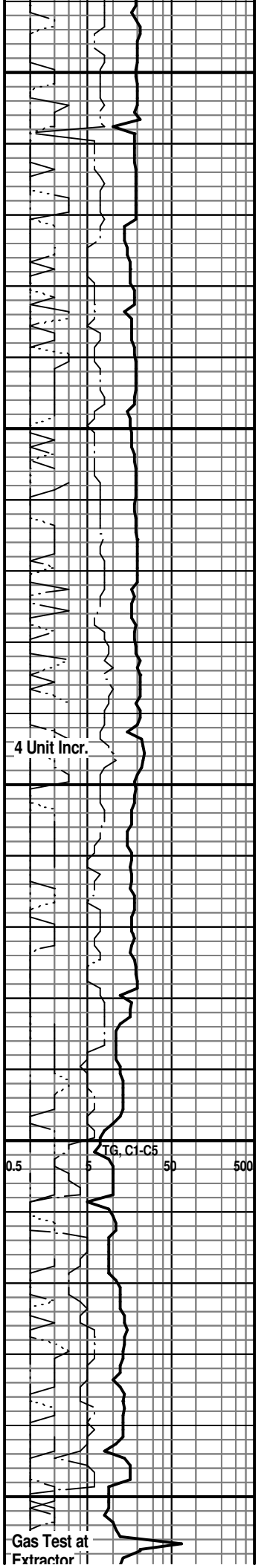
LM; tan to cream, buff, off wh, fxln w/interbdd v. chalky lmst, occ gd interxln por, trc gy/tan cht, dull yel fluor, no gas kick

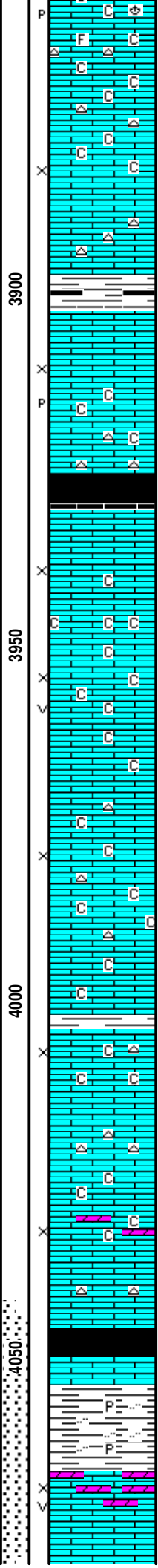
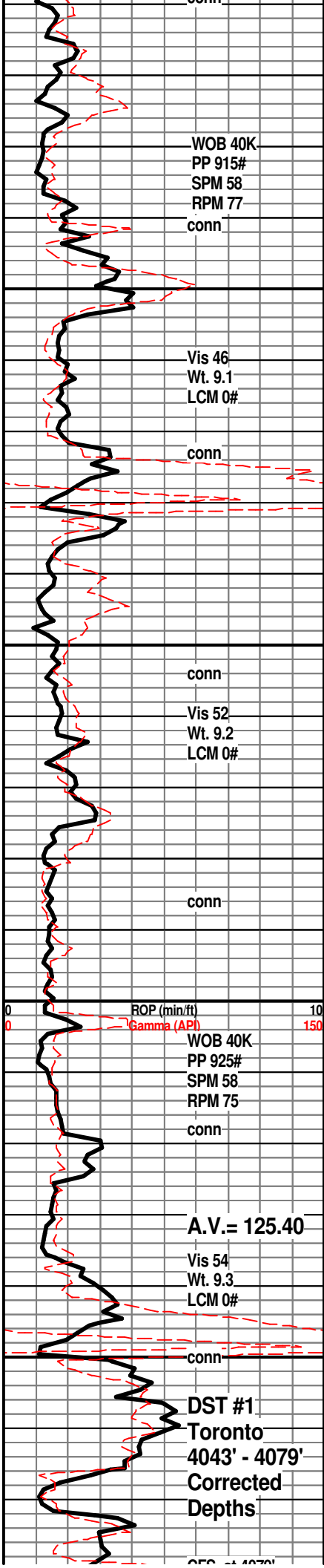
LM; tan to lt brn, buff, fxln, fair to gd interxln w/occ p-p por, soft ip, dull yel to no fluor, no stn or odor, no gas kick

SH; med to dk gy, trc blk, platy

LM; lt gy, lt brn, most micritic, blocky, hd, scat off wh cht, lt yel min fluor, no vis por, ns.

LM; off wh, lt gy, foss ip, most f to med xln, fair interxln w/occ p-p por, interbdd soft chalk and chalkv mtz. lt vel





min fluor, ns.

LM; off wh, wh, tan, fxln w/interbdd gy to off wh cht, fair interxln por ip, dull to lt yel min fluor, no stn or odor, ns.

LM; lt to med brn, occ gy brn, hd, micritic, occ cherty, tite

SH; dk gy, trc blk, platy to flakey

LM; tan to lt brn, fxln, fair interxln w/some p-p por, minor soft chalky mtx, lt yel min fluor, no stn or odor, scat wh fresh cht, ns.

SH; blk, v. dk gy, carb ip, platy, trc gas bubbles

LM; lt brn, tan, f to med xln, poor to fair interxln por, bcm chalky - soft, med yel min fluor, no stn or odor, ns.

LM; lt brn, tan, med xln w/spar calc xtals, scat gd interxln w/vug por, very chalky ip, lt to med yel min fluor, ns.

LM; tan to buff, off wh, f to med xln, scat gran text, fair interxln por, interbdd soft chalky lmst, rare off wh cht, dull yel fluor, ns.

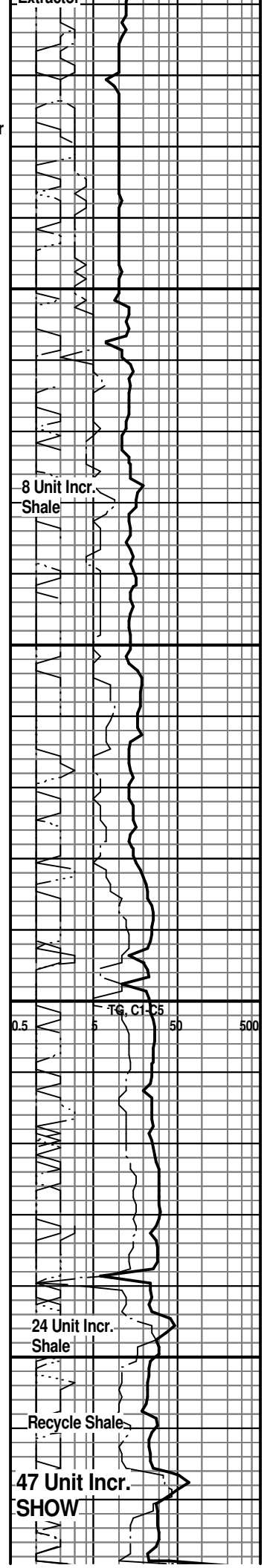
LM; tan to buff, off wh, rare lt gy, med xln, fair to gd interxln por, very chalky ip, scat cse spar calc xtals, interbdd off wh/lt gy chert, dull yel min fluor, ns.

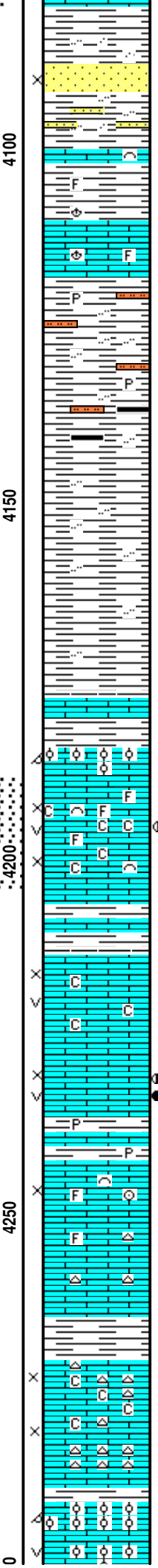
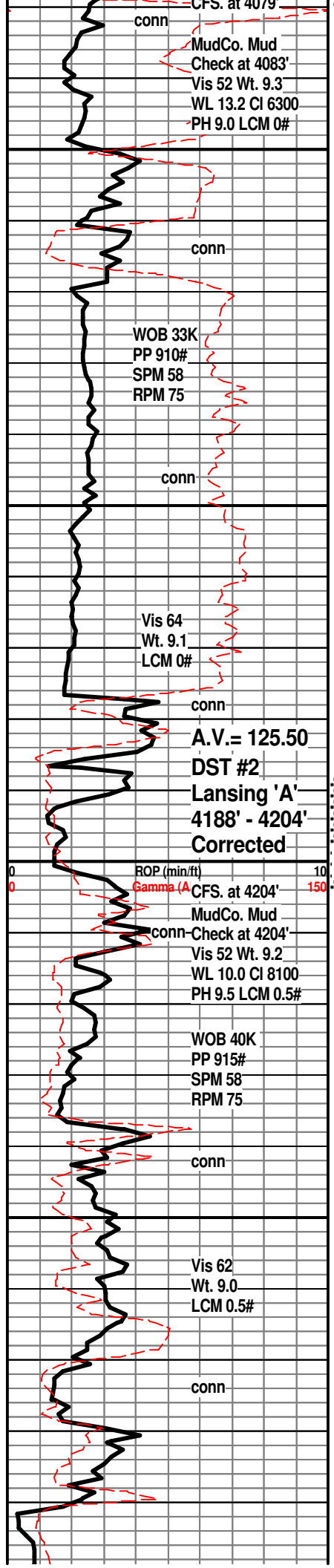
LM; tan to lt brn, off wh, f to med xln, trc sucrosic text - partly dolomitic, fair interxln por, occ soft chalky mtx, occ off wh chert, dull yel min fluor, no stn or odor, ns.

**HEEBNER SHALE 4046(-1782)**  
SH; blk, carb, platy, trc gas  
LM; med brn, hd, micritic, dense

SH; lt grn, gy grn, firm, silty, rarely pyr

**TORONTO 4066(-1802)**  
LM; wh, off wh, sucrosic text, dolomitic ip, fair to gd interxln por, scat vug por, lt yel to pale blue fluor, gas bubbles, poss. faint gas odor, no vis oil stn, gas show only





**DST #1: Toronto 4043' - 4079'**  
**DOUGLAS SHALE 4080(-1816)**  
 SH; lt gy, gy grn, silty, firm  
 SS; lt gy, vf to f gr qtz, mica, fri ip, w/mostly poor intergran por, no fluor, no stn or odor  
 LM; med to occ dk brn, foss ip, hd, well cem, no vis por, dull yel min fluor, ns.  
 LM; off wh, tan, scat foss mat, no vis por, lt yel min fluor only, ns.  
 SH; lt to med gy, silty w/interbdd sltst, sticky ip, occ pyr  
 SH; lt gy, silty ip, interbdd carb/coaly mat, platy  
 SH; lt to med gy, platy, silty ip, firm

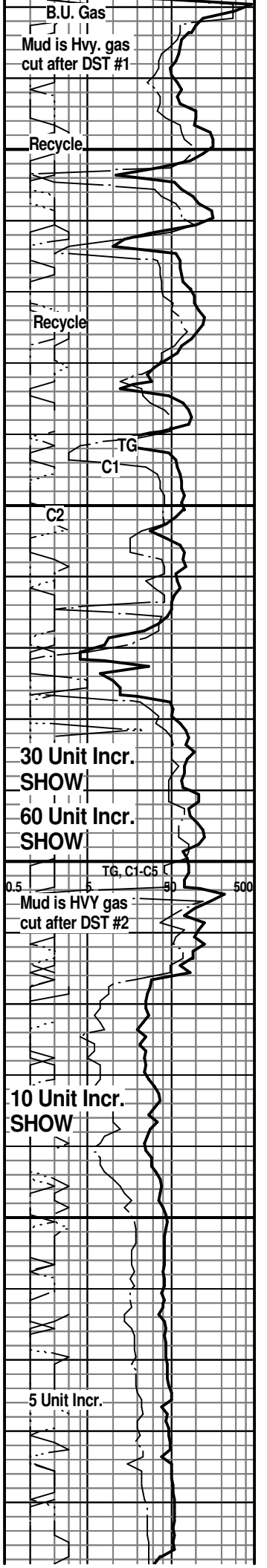
**BROWN LMST. 4177(-1913)**  
 LM; med to dk brn, hd, micritic, tite

**LANSING 'A' 4184(-1920)**  
 LM; tan to lt brn, oolitic at top, fair oomoldic por, some tite, gas bubbles, lt/med yel fluor, no odor  
 LM; off wh, foss, scat fair vug and interpart por, occ soft chalky mtx, lt to med yel fluor, sev. gas bubbles, faint sweet odor, trc lt brn v. spotted oil stn w/trc clr light oil droplets

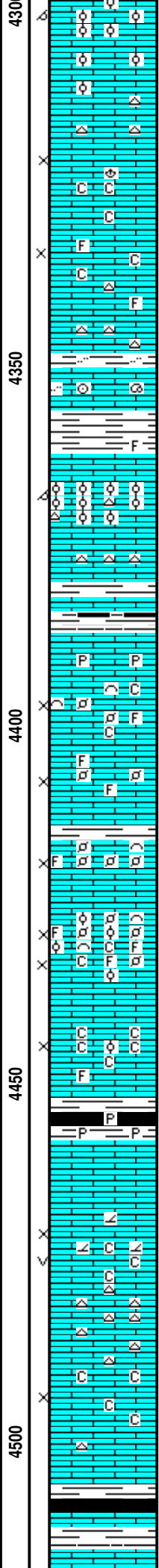
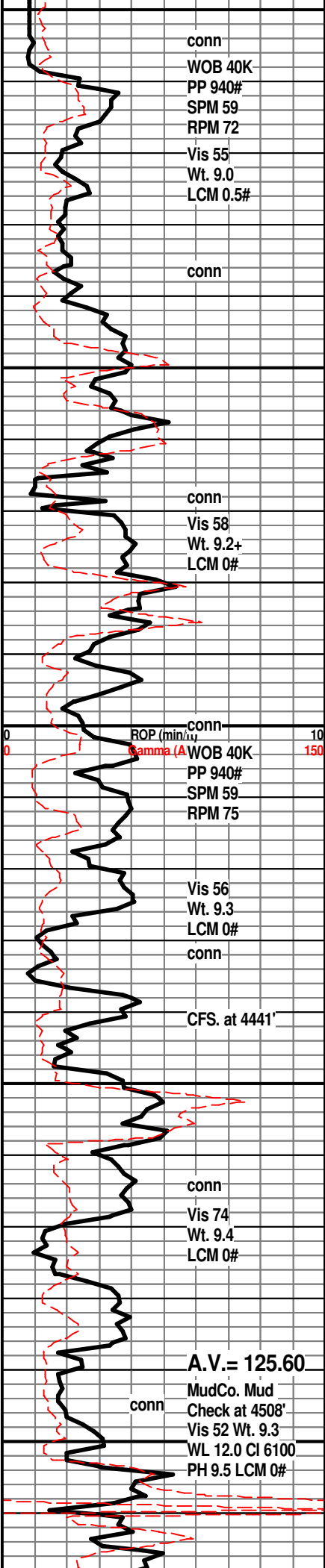
**DST #2: Lansing 'A' 4188' - 4204'**  
**Corrected Depths to LOG**

**LANSING 'B' 4213(-1949)**  
 LM; lt gy, tan, fxln, scat fair interxln w/trc vug por, lt to med yel fluor, no stn or odor, occ soft chalky mtx, ns.  
 LM; lt gy, tan, med to cse xln, fair/gd interxln w/some vug por, scat brite yel fluor, SSFO, spotted/rarely even lt brn oil stn, fair/gd oil odor, few gas bubbles, fair to gd cut, some barren porosity  
 SH; grn, gy grn, platy, occ pyr  
 LM; tan to buff, lt brn, med to cse xln, foss ip, scat fair interxln por, occ soft chalky mtx, no vis stn, no odor, lt yel min fluor only, ns.  
 LM; med brn, mottled text, most dense, blocky, no vis por, occ gy cht, ns.  
 SH; med to dk gy, platy  
 LM; tan to cream, off wh, f to med xln, fair to occ gd interxln por, much soft chalk and chalky mtx, v. cherty ip, dull yel min fluor, no stn or odor, ns.  
 LM; lt to med brn, hd, v. cherty, tite

**LANSING 'G' PORO. 4290(-2026)**  
 LM; lt to med brn, oolitic, most med size molds w/v. gd oomoldic por, occ small vug por, med to brite yel min fluor. no stn or odor. no gas kick. barren. ns.







LM; med brn, hd, oolitic ip, cherty, most dense, scat med yel min fluor, no stn, ns.

LM; tan to cream, buff, fxln, scat foss mat, most w/poor to fair interxln/interpart por, interbdd soft chalky lmst, dull yel to no fluor, scat off wh to lt gy cht, ns.

SH; grn, gy grn, platy, silty ip.  
LM; med brn, hd, foss ip, tite

**LANS/KC. 'H' 4362(-2098)**  
LM; off wh, lt brn, oolitic, med size molds, gd oomoldic por, scat oolitic chert, brittle ip, lt to med yel min fluor, no stn or odor, ns.  
LM; tan to buff, lt brn, hd, scat off wh cht, tite  
SH; med gy, trc blk, platy, firm, occ pyr  
LM; lt brn, foss to med xln, fair interpart/interxln por, scat soft chalky mtx, dull yel min fluor, no stn or odor, ns.  
LM; lt brn, tan, cse foss frags w/scat pelletal lmst, med yel min fluor, fair interpart por, no stn or odor, ns.

**K.C. 'I' ZONE 4416(-2152)**  
LM; tan to lt brn, foss - finely pelletal ip, most well cem, trc poor interpart por, dull yel fluor, no vis stn, quest. odor, no gas kick  
LM; lt brn, tan, v. foss w/abnt small oolites and pellets, occ chalky mtx, gd interpart por, dull yel min fluor only, no stn or odor, ns.  
LM; off wh, tan, buff, f to med xln, rarely foss, much soft chalky mtx, dull yel min fluor, no stn or odor, ns.

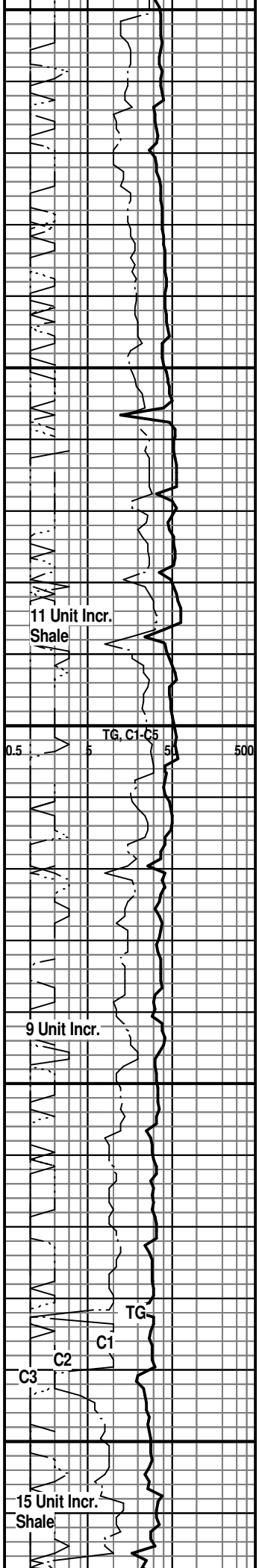
SH; dk gy, blk, platy, occ pyr

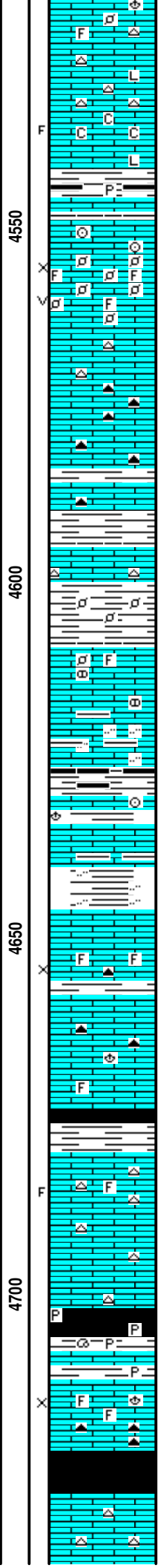
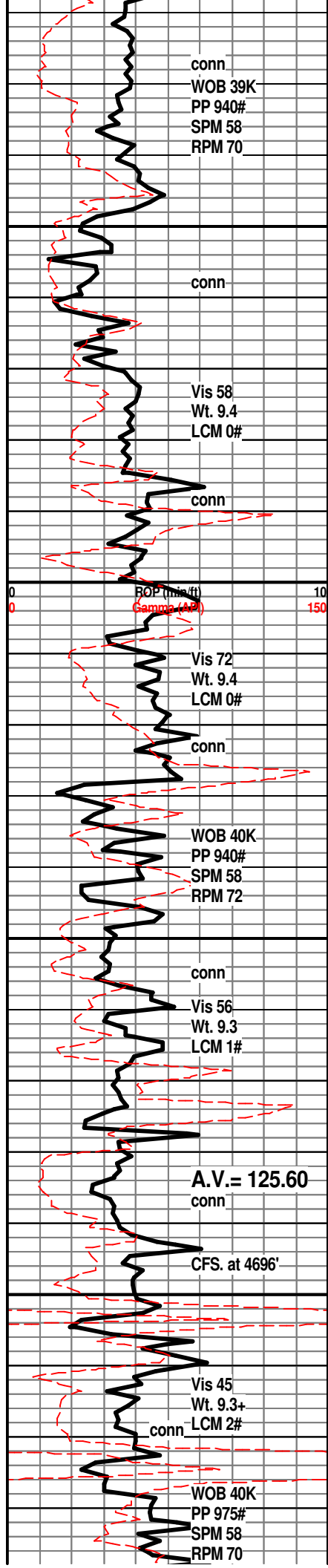
**K.C. 'J' DENNIS 4458(-2194)**  
LM; tan to cream, buff, f to med xln, fair to gd interxln por, minor sucrosic text - partly dolomitic, trc vug por, v. dull yel min fluor, no stn or odor, no gas kick, chalky ip, ns.  
LM; off wh, tan, dense, abnt wh/off wh to transl cht, tite

LM; wh, off wh, tan, med xln to partly gran text, fair interxln por, interbdd soft chalk and chalky mtx, no fluor, cherty ip, no stn or gas kick, ns.

**STARK SHALE 4508(-2244)**  
SH; blk, carb ip, platy

**SWOPE 4515(-2251)**





LM; tan to off wh, buff, foss ip, most well cem, blocky, interbdd hd micrite, scat off wh to tan cht, no fluor, no vis por, ns.

LM; tan to lt gy, gy brn, v. hd, litho ip, scat gy to off wh cht, interbdd wh chalky lmst w/few frags w/blk tar/gilsonite, no live showstite

SH; dk gy, rare blk, platy, occ pyr

**HERTHA 4549(-2285)**

LM; tan to off wh, lt brn, highly foss - finely pelletal ip, gd interpart w/scat vug por, dull yel min fluor only, no stn or odor, no gas kick, ns.

LM; med to dk brn, v. hd, litho, dense, occ dk gy to smoky cht, no fluor, ns.

**BASE KANSAS CITY 4590(-2326)**

LM; med brn, gy brn, dense, scat cht, tite

SH; varic, blk, maroon, rust red, gy, firm

LM; lt to med brn, foss - finely pelletal ip, well cem, interbdd hd micrite, no fluor, no vis por, ns.

LM; tan to rust red/brn, some nodular, hd, interbdd fxln to gritty/silty argil lmst, ns.

SH; varic, rust brn, dk gy, trc blk, foss ip

**MARMATON 4630(-2366)**

LM; tan to lt gy, occ pale grn, argil ip, hd, blocky, no vis por, ns.

SH; varic, med gy, rust red, brn, silty ip.

LM; off wh to tan, buff, fxln, scat poor interxln por, rare foss mat, dull yel fluor, no stn or odor, cherty ip w/scat amber/brn cht, ns.

LM; tan to lt brn, fxln w/scat foss mat, most well cem, scat amber to brn cht, no vis por, ns.

SH; dk gy, trc blk, fiss

**PAWNEE 4680(-2416)**

LM; lt brn, tan, fxln, occ well cem foss mat, trc frags, most dense, scat gy to off wh cht, no fluor, no stn, no gas kick, ns.

LM; lt brn, tan, most micritic, hd, no vis por, scat gy cht, no fluor, ns.

SH; blk, carb ip, platy, pyr ip.

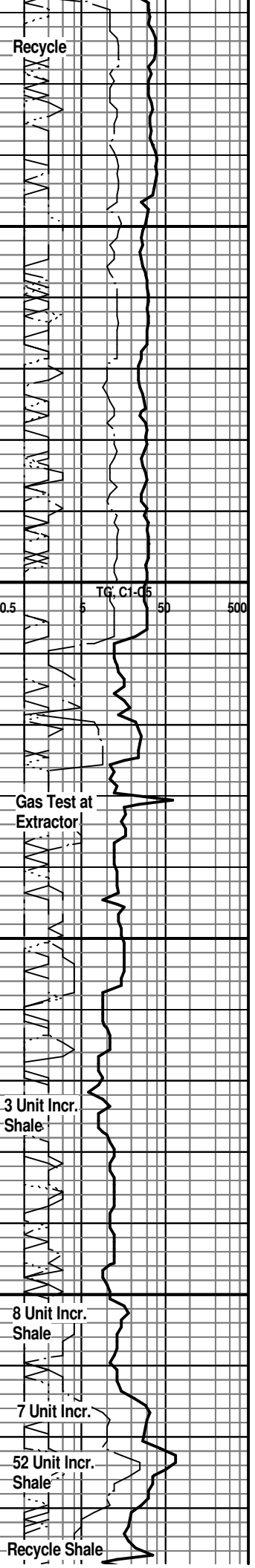
SH; grn, gy grn, firm, occ pyr

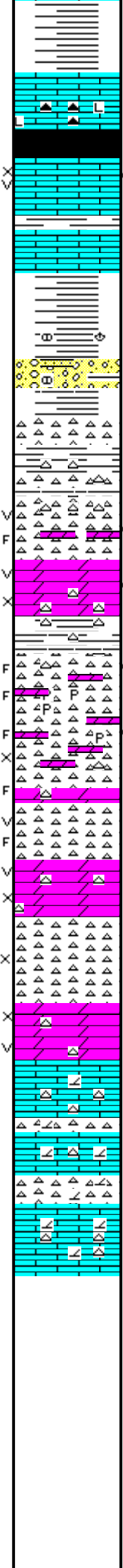
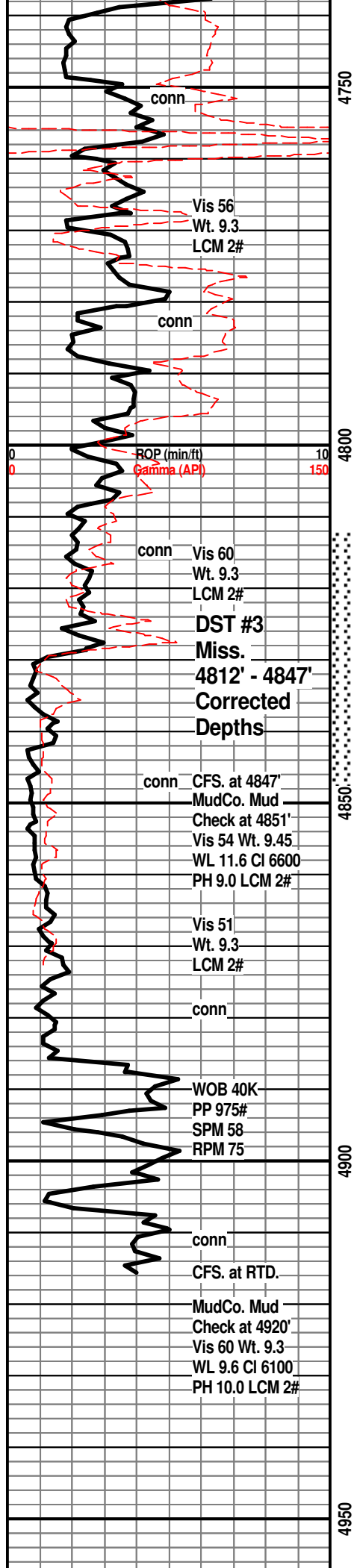
LM; lt brn, med xln w/occ foss, trc poor interxln por, interbdd amber to brn cht, occ med yel fluor, no vis stn, no odor, no vis gas bubb.

**CHEROKEE SHALE 4722(-2458)**

SH; blk, carb, blocky, gassy

LM; off wh, tan, lt brn, fxln to micritic, hd, blocky, scat tan cht, no vis por, no fluor, ns.





SH; varic, gy grn, rust red, platy to flakey

LM; med brn, fxln to micritic, most dense, some litho, scat amber cht, hd

SH; dk gy, blk, platy

LM; tan to buff, fxln, partly sucrosic text, fair interxln por, occ small vug por, lt yel fluor, spotted dk brn oil stn, faint odor, trc gas bubb.

LM; lt gy, gy brn, some pale grn, most dense, blocky, hd, no vis por, no fluor, ns.

**BASE CHEROKEE LMST. 4776(-2512)**

SH; varic, much grn, foss ip, platy,

SH; grn, gy, interbdd off wh to trans. cht, some nodular weath. lmst - partly conglomeratic, some shaly brn med gr ss

**MISSISSIPPI UNCONF. 4796(-2532)**

CHT; off wh, gy, fresh, partly dolomitic, grainy text ip, scat blk dead tar, fracs, faint odor

CHT; wh, fresh w/occ trip, spotty lt brn live oil stn, brite yel fluor, scat lrg vug por, v. gd odor, SFO, trc gas bubbles, interbdd cherty dolo w/SSFO, fair interxln por, occ cse qtz xtals w/stn

DOL; wh, off wh, pale grn, cherty, sucrosic, med yel fluor, few gas bubbles, gd odor, cherty dolomite interbdd w/spotted live oil stn

CHT; lt gy, fresh, partly dolomitic, spotted live oil stn ip, scat med yel fluor, fracs w/pyr on some frac faces, gd odor, poss. gas bubbles

DOL and CHT; tan, buff, sucrosic, gd interxln por, lt yel fluor, gas bubbles, gd odor, spotted stn

**DST #3: Miss. Chert/Dol 4812' - 4847'**  
**Corrected Depths to LOG**

CHT; wh, off wh, lt gy, pred fresh, sharp, occ tripolite w/scat vug por, fracs, dull to lt yel fluor, faint odor, no stn

CHT; lt gy, wh, tripolite and fresh, interbdd tan/buff sucrosic dolo, gd interxln por in dolo, fracs w/vug por in cht, lt yel fluor, no stn, faint stinky odor, ns.

DOL; tan to buff, lt gy, sucrosic, gd interxln w/vug por, med yel fluor, no stn, faint odor, ns.

**BASAL MISS. LMST 4886(-2622)**

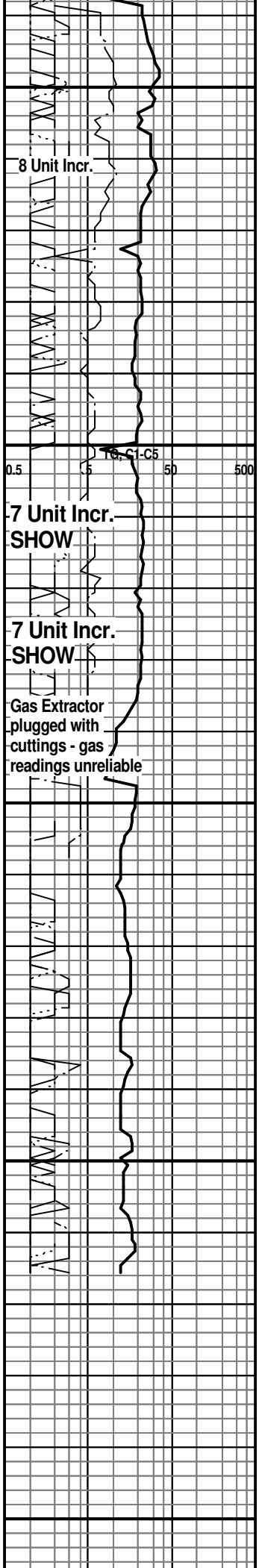
LM; off wh, tan, micritic, interbdd wh/lt gy opaque to occ transl. fresh cht, some partly dolomitic, blocky, tite

LM; off wh, cream, tan, sucrosic - dolomitic ip, interbdd gy cht, most dense, blocky, hd, dull yel fluor, no stn or odor, ns.

RTD. 4920' at 6:00 AM. 7/16/12

LTD. 4916'

Halliburton DIL, NEU/DEN w/PE,  
Microlog, Sonic, MIRL



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

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