

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: Rose #1-6
Location: 2104' FSL & 1400' FWL, Sec. 6-T27S-R19W, Kiowa Co., KS.
Licence Number: 15-047-21611-0000 Region: Wildcat
Spud Date: 7/12/2012 Drilling Completed: 7/23/2012
Surface Coordinates: 2104' FSL & 1400' FWL, Sec. 6-T27S-R19W

Bottom Hole Same as Above
Coordinates:
Ground Elevation (ft): 2252' K.B. Elevation (ft): 2263'
Logged Interval (ft): 3800' To: 4930' Total Depth (ft): 4930'
Formation: Mississippian at Total Depth
Type of Drilling Fluid: Freshwater/Gel to 3121'; Chemical Gel 3121' to 4930'
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') 4199' - 4215'(Corrected Depths to LOG) Test Times 15"-45"-45"-90" IFP Strong Blow Gas to Surface in 4 Min., FFP Strong Blow Gas to Surface throughout Gauged Max. 468 MCFG; REC: 125' WM(20%W, 80%M), 125' MW(80%W, 20%M) CI 109,000 Mud 6600; IFP 70-96#, ISIP 1432#, FFP 70-100#, FSIP 1397#, IHP 2020#, FHP 2013#, BHT 115 Deg F.

DST #2(Lansing 'B') 4230' - 4252'(Corrected Depths to LOG) Test Times 15"-45"-30"-60" IFP Strong Blow BOB/25 Sec., 2" Blowback on ISI, FFP Strong Blow BOB/4 Min., no Gas to surface, 10" Blowback on FSI; REC: 1100' Gas in Pipe, 155' GM&WCO(12%G, 45%O, 19%W, 24%M), 235' SOCMW(1%O, 93%W, 6%M) CI 86,000, Mud 4600; IFP 51-82#, ISIP 1410#, FFP 107-178#, FSIP 1391#, IHP 2022#, FHP 1998#, BHT 120 Deg. F.

DST #3(Miss. Chert/Dolo.) 4764' - 4823'(Corrected Depths to LOG) Test Times 15"-45"-15"-45" IFP Very Weak 0.5" Blow, FFP No Blow, no Blowback on SI's; REC: 5' Hvy. Drlg Mud, no shows; IFP 22-24#, ISIP 68#, FFP 25-25#, FSIP 39#, IHP 2322#, FHP 2264#, BHT 117 Deg. F.

DST #4(Miss. Chert/Dolo.) 4823' - 4839'(Corrected Depths to LOG) Test Times 15"-45"-30"-60" IFP Weak Blow built to 1.5", FFP Weak Blow built to 1.5", no Blowback on SI's; REC: 5' CO, 60' OCWM(24%O, 16%W, 60%M), 65' SOCMW(2%O, 50%W, 48%M), CI 83,000, Mud 8800; IFP 19-40#, ISIP 1520#, FFP 46-78#, FSIP 1528#, IHP 2348#, FHP 2331#, BHT 123 Deg F.

Comments

7/12/12 MIRU Sterling Drilling Co. Rig #2, Spud at 8:00 PM; 7/13/12 TD. 523' - Wiper Trip prior to setting Surface Casing; 7/14/12 TD. 523' - WOC; 7/15/12 Drilling at 1780'; 7/16/12 Drilling at 2833'; 7/17/12 Drilling at 3532'; 7/18/12 Drilling at 4150'; 7/19/12 TD. 4221' - TIH after DST #1; 7/20/12 Drilling at 4365'; 7/21/12 TD. 4708' - CFS; 7/22/12 TD. 4829' - TIH after DST #3; 7/23/12 RTD. 4930' - CCH for Logs; 7/24/12 RTD. 4930'/LTD. 4922' - LDDP for setting 5 1/2" Production Casing.

Set new 8 5/8"(23#) Surface Casing at 519' w/350 sx. cement(Basic Energy Services). Cement to Cellar. PD. 12:45 PM. 7/13/12. Cement fell 30' - cement through 1" with 75 additional sx. Completed 2:00 AM. 7/14/12.

Set new 5 1/2"(15.5#) Production Casing at 4922' w/250 sx. "Strata Blend" cement(Basic Energy Services). PD. 4:15 PM. 7/24/12.

Surveys: 0.25 Deg. at 523'(Surface Casing); 0.50 Deg. at 4221'(DST #1); 1.50 Deg. at 4829'(DST #3).

Pipe Strap at 4221'(DST #1): Strap 1.62' Short to the Board, no correction made to the Board.

After review of the Halliburton Logs, DST data, and positive indications 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 2490(-227), Stotler Lmst. 3427(-1164), Howard 3628(-1365), Heebner Shale 4054(-1791), Toronto 4074(-1811), Brown Lmst. 4188(-1925), Lansing 'A' 4196(-1933), Lansing 'B' 4222(-1959), Lansing/KC. 'H' 4368(-2105), Stark Shale 4514(-2251), Base Kansas City 4595(-2332), Marmaton 4635(-2372), Pawnee 4688(-2425), Cherokee Shale 4729(-2466), Miss. Unconformity 4806(-2543), Miss. Osage Chert 4836(-2573), Basal Miss. Lmst. 4887(-2624).

NOTE: This log was shifted upward by 6' 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

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau

- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite

- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst

- Sltstrg
- Ssstrg

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY

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

- Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

- Spotted
- Ques
- Dead

INTERVAL

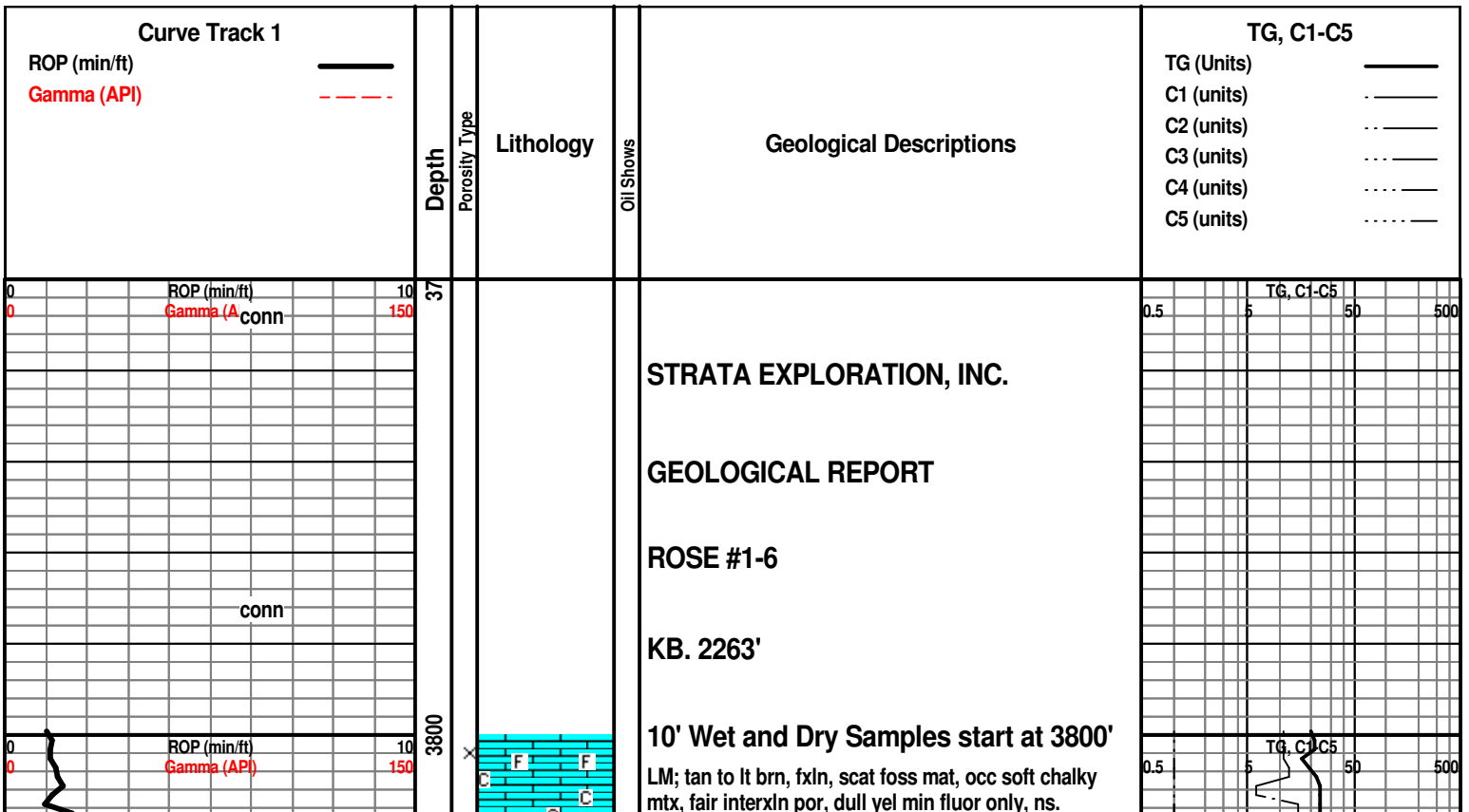
- Core
- Dst

EVENT

- Rft
- Sidewall

OIL SHOW

- Even



conn
Vis 50
Wt. 9.0
LCM 2#

WOB 40K
PP 960#
SPM 59
RPM 74

conn

conn
Vis 55
Wt. 9.2
LCM 2#

conn
WOB 40K
PP 850#
SPM 56
RPM 72

A.V. = 125.05

conn
Vis 50
Wt. 9.2
LCM 2#

WOB 40K
PP 875#
SPM 56
RPM 68
conn

ROP (min) conn
Gamma (A-γ)

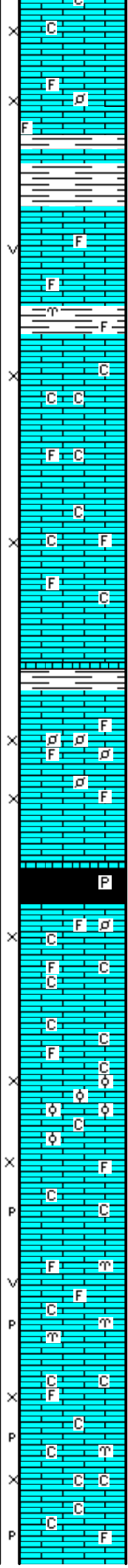
Vis 52
Wt. 9.3

3850

3900

3950

4000



LM; lt brn, tan, foss ip, scat med xln w/fair interxln por, occ wh cht, no fluor, ns.

SH; med to dk gy, platy to flakey

LM; tan, off wh, buff, foss ip, most well cem, interbdd foss lmst w/fair vug por, lt to med yel min fluor, no stn or odor, ns.

SH; grn, gy grn, platy, occ foss

LM; tan to cream, lt brn, f to med xln, fair to occ gd interxln por, minor soft chalky mtx, lt yel min fluor, no stn or odor, ns.

LM; tan to cream, off wh, f to med xln, fair to gd interxln por, scat foss mat, interbdd soft chalky lmst, lt yel min fluor, no stn or odor, ns.

POOR SAMPLES: 75 - 80% SHALE, REDUCE PUMP PRESSURE TO 55 TO 56 SPM = 850#

SH; med to dk gy, red, grn, slough shales

LM; tan to cream, lt brn, fxln w/scat foss mat. occ finely pelletal, fair interpart por, lt yel min fluor, ns.

SH; blk, carb ip, platy, trc pyr

LM; wh, lt gy, off wh, f to med xln, some gran text, fair to gd interxln por, scat foss mat, lt to med yel fluor, some very chalky - soft, ns.

LM; off wh, tan, scat foss mat - finely pelletal ip, trc oolitic lmst, poor to fair interpart por, lt yel min fluor, scat chalky lmst, no stn or odor, ns.

LM; off wh, tan, foss ip, scat good vug and p-p por, lt yel min fluor, no stn or odor, no gas kick, barren, ns.

LM; tan to buff, off wh, f to med xln, fair to gd interxln w/occ p-p por, interbdd tan to lt brn hd micrite, decr. chalk and chalky mtx, lt yel fluor, occ tan to off wh cht, ns.

Gas Test at Extractor

Change Extractors @ 3912'

13 Unit Incr. Shale

TG

C1

C2

TG, C1-C5

0.5 5 50 500

LCM 2#

conn

WOB 40K
PP 875#
SPM 56
RPM 68

A.V.= 124.05

conn

Vis 49
Wt. 9.3
LCM 2#

CFS. at 4086'

conn

WOB 40K
PP 880#
SPM 56
RPM 68

Vis 51
Wt. 9.3+
LCM 1#

conn

WOB 33-35K
PP 880#
SPM 56
RPM 65-70

Vis 48
Wt. 9.4
LCM 1#

A.V.= 124.05

conn

ROP (min)
Gamma (A)

DST #1
Lansing 'A'
4199' - 4215'
Corrected
CFS. at 4215'

MudCo. Mud
Check at 4221'
Vis 54 Wt. 9.2
WL 13.0 Cl 6200
PH 10.0 LCM 1#

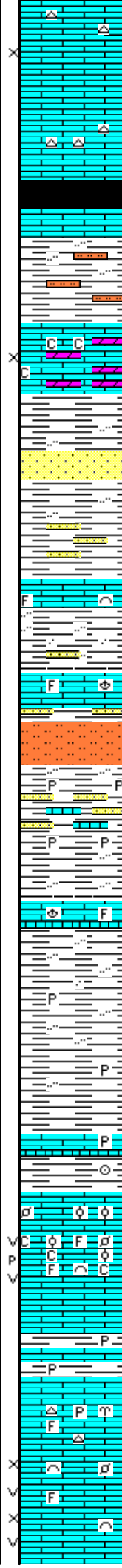
DST #2
Lansing 'B'
4230' - 4252'
Corrected

4050

4100

4150

4200



LM; med brn, dense, scat tan/off wh cht, no vis por, tite

HEEBNER SHALE 4054(-1791)

SH; blk, carb ip, platy, trc gas bubb.
LM; med to dk brn, v. hd, blocky, tite

SH; grn, gy grn, silty w/some interbdd sltst

TORONTO 4074(-1811)

LM; wh, off wh, fxln to sucrosic text, partly dolomitic, fair interxln por, lt yel fluor, occ soft chalky mtz, no vis stn, no odor, no vis gas bubbles, no gas kick, barren

DOUGLAS SHALE 4084(-1821)

SH; lt gy, soft, silty ip, interbdd vf to fgr qtz ss, tite mica ss, platy

SH; lt to med gy, grn, silty w/rare vf gr qtz ss strngs.

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

SH; lt gy, gy grn, silty to rarely sandy, occ mica

LM; lt brn, occ med brn, foss, dense, blocky, scat hd vf gr qtz ss, tite

SLTST; lt gy, sandy ip, firm

SH; lt gy, sandy to occ lmy, v. firm, platy, scat dissem pyr

LM; med brn, foss, hd, lt yel min fluor, tite

SH; lt to med gy, occ silty, firm, rarely pyr, very flakey, sloughing badly

BROWN LMST. 4188(-1925)

LM; med to occ dk brn, micritic, hd, trc pyr

LANSING 'A' 4196(-1933)

LM; wh, off wh, foss ip, rare small oolites, most w/fair to occ gd p-p and small vug por, med yel fluor, faint sweet gas odor, gas bubbles, chalky mtz, occ cse spar calc xtals, trc med brn oil stn, trc. lt clr FO. droplets, pred. gas show

DST #1: Lansing 'A' 4199' - 4215'

Corrected Depths to LOG

SH; med gy, grn, platy, occ pyr

LANSING 'B' 4222(-1959)

LM; tan to cream, foss, most well cem, scat off wh cht, lt yel fluor, no stn, tite

LM; tan to lt brn, buff, f to med xln, foss ip, gd interxln w/well dev. vug por, much brite yel fluor, SSFO, gas bubbles, spotted to occ even lt brn oil stn, gd odor, fair to gd cut, some barren porosity

14 Unit Incr. Shale

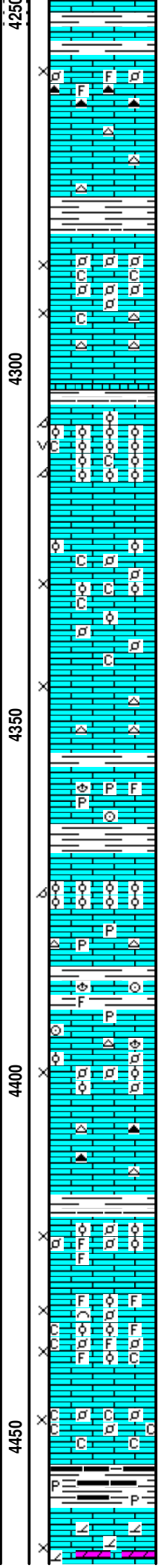
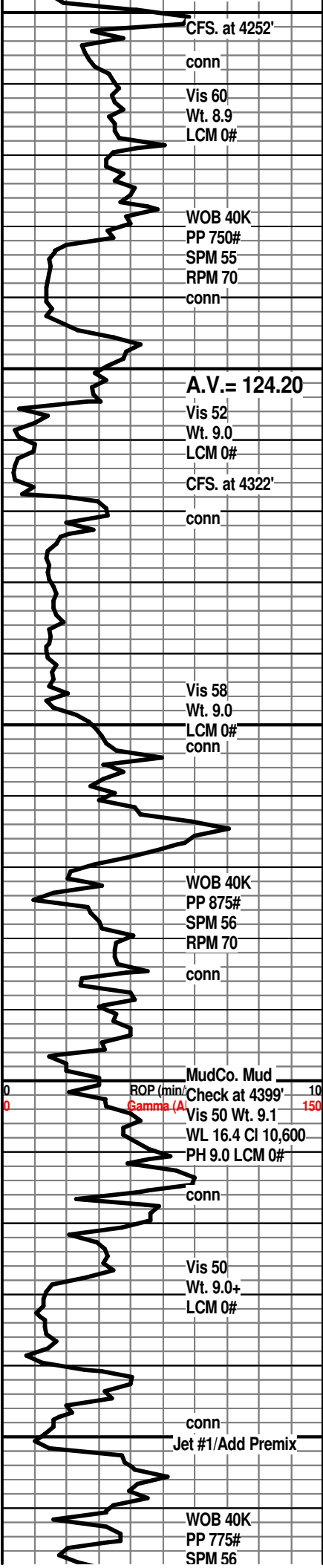
Recycle Shale

TG
C1
C2

0.5 5 50 500
TG, C1-C5
30 Unit Incr. SHOW

BU. Gas/Mud is Hvy Gas Cut after DST #1

C3
65 Unit Incr. SHOW



DST #2: Lansing 'B' 4230' - 4252'
Corrected Depths to LOG

LM; lt brn, tan, v. foss ip, poor vis interpart por, abnt wh to amber cht, dull yel min fluor only, no stn or odor, ns.

LM; tan to buff, lt brn, most dense, blocky, hd, scat tan cht, ns.

LANSING 'E/F' ZONE 4281(-2018)

LM; wh, off wh, finely pelletal, interbdd med xln partly chalky lmst, fair to gd interxln/interpart por, lt yel fluor, no stn or odor, no gas kick, barren, ns.

LANSING 'G' PORO. 4305(-2042)

LM; lt to med brn, oolitic, med size molds w/v. gd oomoldic por, occ vug por, brittle, dull yel to lt yel fluor, no stn or odor, minor chalky mtx, barren, no gas kick

LM; lt gy, lt brn, dense, micritic, tite

LM; wh, off wh, buff, foss, scat small ooids and pellets, occ chalky mtx, fair interpart por, scat lt yel min fluor, no vis stn, no odor, no gas kick

LM; tan to cream, buff, f to med xln, fair interxln por, scat off wh to gy cht, dull yel fluor, ns.

LM; tan to med brn, foss ip, scat pyr, hd

LANSING/KC. 'H' 4368(-2105)

LM; lt brn to buff, tan, oolitic, small to med size molds, poor to fair oomoldic por, lt to occ med yel fluor, no stn or odor, no vis gas bubbles, ns.

LM; tan to buff, hd, micritic, scat gy/off wh cht, tite, scat pyr

SH; med gy, platy, foss ip, soft

LM; off wh, tan, cream, foss - finely pelletal w/scat small ooids, fair interpart por, dull yel min fluor, no stn or odor, no sample shows

LM; lt to med brn, hd, blocky, scat tan/amber cht, tite

K.C. 'I' ZONE 4419(-2156)

LM; off wh, tan, cream, foss - finely pelletal/oolitic, most well cem, poor interpart por, lt yel min fluor, no vis stn, no odor, no sample shows

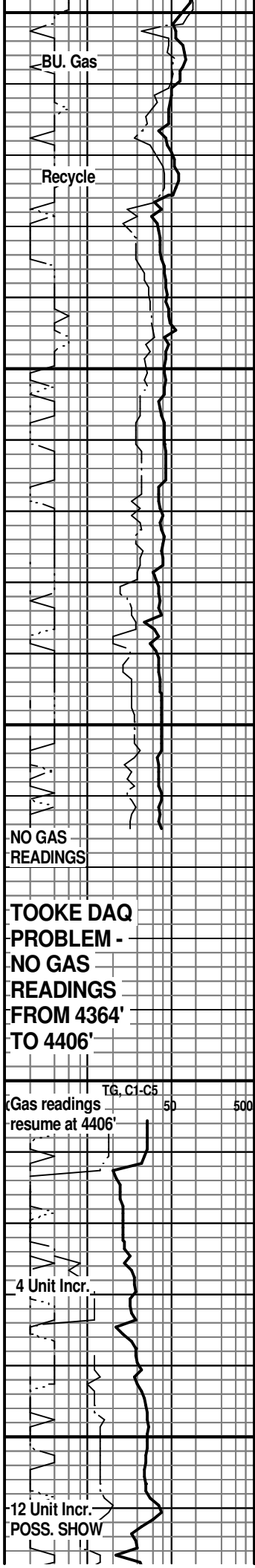
LM; tan to buff, lt brn, foss - finely pelletal w/scat ooids, fair to occ gd interpart por, interbdd soft chalk and chalky lmst, no stn or odor, dull yel fluor, no sample shows

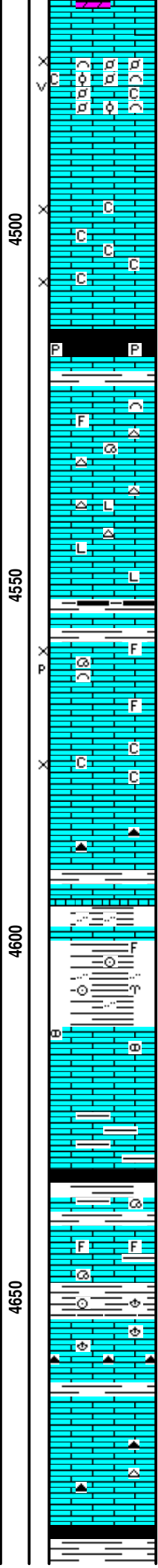
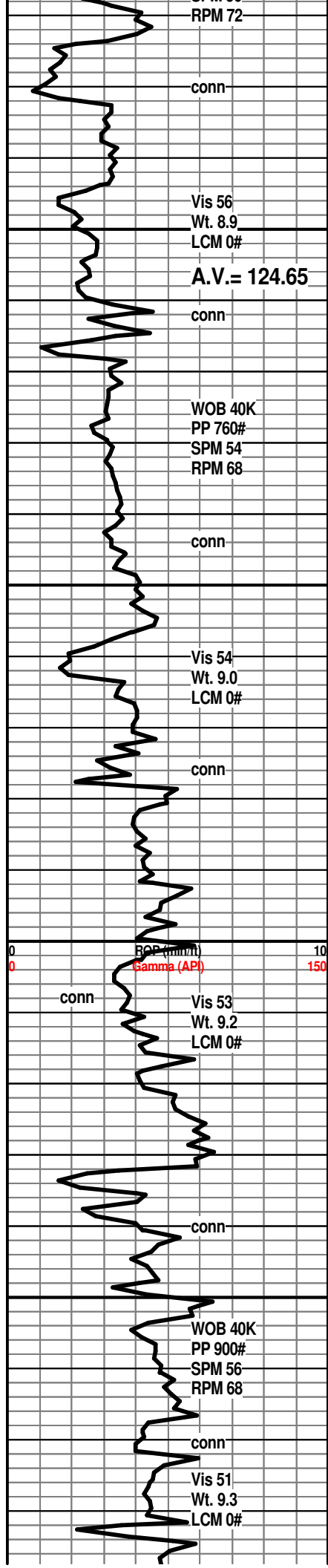
LM; off wh, tan, foss w/much soft chalk and chalky lmst, fair interpart por, med yel min fluor, no vis stn, no odor, ns.

SH; dk gy, blk, carb ip, platy, scat pyr

K.C. 'J' DENNIS 4460(-2197)

LM; tan to buff, lt brn, fxln, scat sucrosic text, partly dolomitic, fair interxln por, dull yel min fluor, no vis stn,





no odor, no sample shows

LM; tan to lt brn, foss - finely pelletal, scat foss hash, fair interpart and small vug por, lt yel min fluor, minor chalky mtx, interbdd soft chalky lmst, no stn or odor, no gas kick, ns.

LM; off wh, tan, buff, fxln to micritic, some blocky, hd, tite

LM; off wh, f to med xln, scat cse spar calc xtals, much soft chalky mtx, fair to poor interxln por, no fluor, no stn or odor, ns.

STARK SHALE 4514(-2251)
SH; blk, carb ip, pyr

SWOPE 4522(-2259)
LM; tan to lt brn, foss ip, well cem, most blocky, dense, dull yel to no fluor, scat lt gy/off wh cht, no stn or odor, ns.

LM; tan to buff, cream, dense, micritic to litho, tite, scat off wh cht

SH; blk, gy grn, dk gy, platy

HERTHA 4558(-2295)
LM; tan to lt brn, buff, fxln, scat foss mat, fair interxln/interpart w/some p-p por, lt yel fluor, no vis stn, no odor, no gas kick

LM; tan to lt brn, fxln, scat spar calc xtals, fair interxln por ip, minor soft chalky mtx, lt yel fluor, ns.

LM; med to dk brn, hd, micritic, trc dk gy cht

BASE KANSAS CITY 4595(-2332)
SH; varic, rust red, grn, brn, flakey, silty ip.

SH; varic, rust red, grn, foss ip, occ silty

PLEASANTON 4612(-2349)
LM; lt brn, nodular ip, partly weathered, hd

LM; off wh, tan, wh, most micritic, hd, rarely foss, lt yel min fluor, no stn, bcm argil at base

SH; dk gy, trc blk, some varic.

MARMATON 4635(-2372)
LM; tan to lt brn, foss ip, well cem, hd, blocky, rare grn argil lmst, no fluor, no vis por, ns.

SH; grn, gy grn, platy, foss ip.

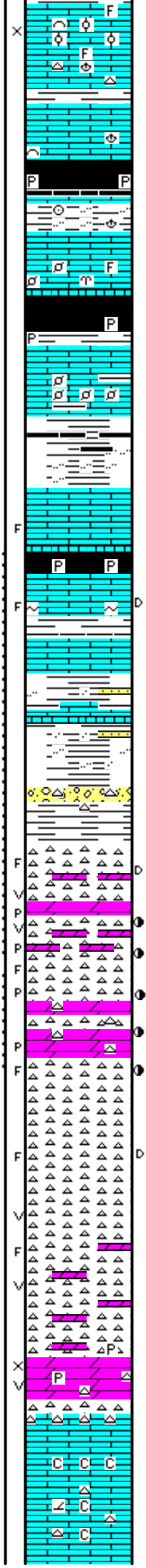
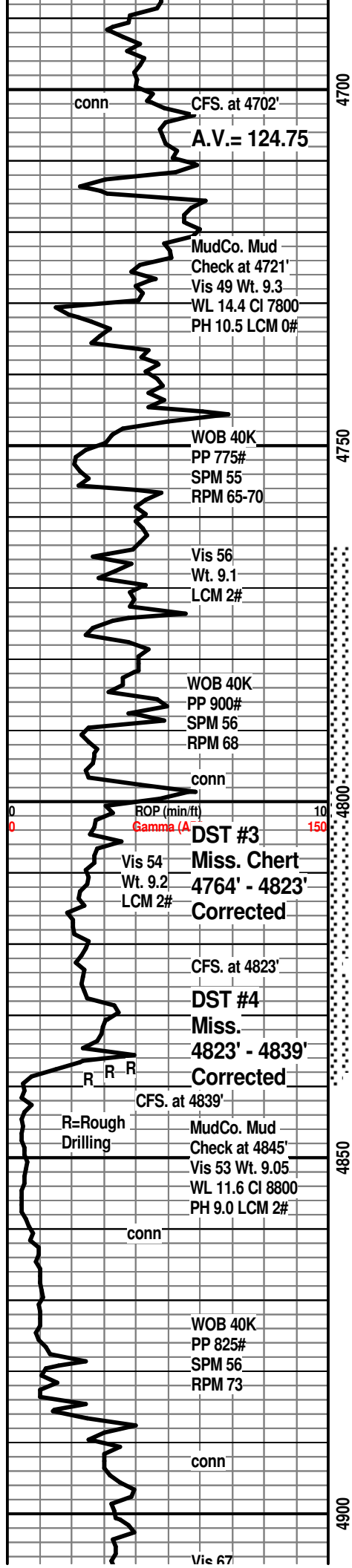
LM; off wh, tan, buff, foss ip, most well cem, occ cherty w/amber/org and brn cht, no fluor, no stn or odor, ns.

LM; lt to med brn, most dense, blocky, hd, scat off wh/amber cht, no vis por, dull to lt yel min fluor, ns.

SH; dk gy, blk, platy, soft

PAWNEE 4688(-2425)





LM; tan to buff, off wh, foss ip, poor to fair interpart por, lt yel fluor, trc finely oolitic lmst, no vis stn, no odor, no gas kick - POOR SAMPLES, some med brn dense micrite

LM; lt to med brn, hd, micritic, scat well cem foss frags, no fluor, ns.

SH; blk, carb, gassy ip, scat pyr, blocky

SH; grn, gy grn, red, foss ip, flakey

LM; tan to lt brn, buff, foss ip, well cem, scat spar calc xtals, med/brite yel min fluor, no vis por, no stn, no gas kick, tite

CHEROKEE SHALE 4729(-2466)

SH; blk, v. dk gy, carb, soft to brittle, scat pyr

LM; tan to med brn, gy brn, hd, foss - scat small pellets, well cem, no vis por, some argil lmst, no fluor, no stn, ns.

SH; varic, dk gy, trc blk, grn, gy, silty ip, fiss - flakey

LM; lt to med brn, blocky, micritic, hd, poss frags, dull yel min fluor, no vis stn, ns.

SH; blk, dk gy, pyr ip

LM; tan to med brn, cse xin, cse spar calc xtals, poss frags, glau ip, faint gas odor, trc gas bubbles, lt yel fluor, trc blk tar/gils

LM; lt gy, pale grn tint, blocky, micritic, no vis por, no fluor, ns.

SH; varic, grn, rust red, yel, brn, platy, occ silty to sandy, trc red sandy sh

SH; varic, some nodular weath lmst, scat wh/transl cht

MISS. UNCONFORMITY 4806(-2543)

CHT; wh, off wh, most fresh, interbdd cherty dolo, sucrosic, frags in cht w/trc edge stn, v. faint odor, dead oil only, v. dull yel fluor

CFS(60 Min): CHT, wh, pale grn, opaque, fresh and some trip, fair p-p and vug por w/fracs, interbdd sucrosic dolo w/scat lt brn live stn, gd odor, Trc. FO, spotted stn, trc gas bubbles

DST #3: Miss. Chert 4764' - 4823'

CHT; wh, off wh, pale grn, fresh and trip, spotted lt brn stn, Trc. FO, strong odor, frags w/fair p-p por, brite yel fluor, interbdd tan cherty sucrosic dolo, scat stn, some dense, occ lrg qtz xtals

DST #4: Miss. Cht/Dol. 4823' - 4839'

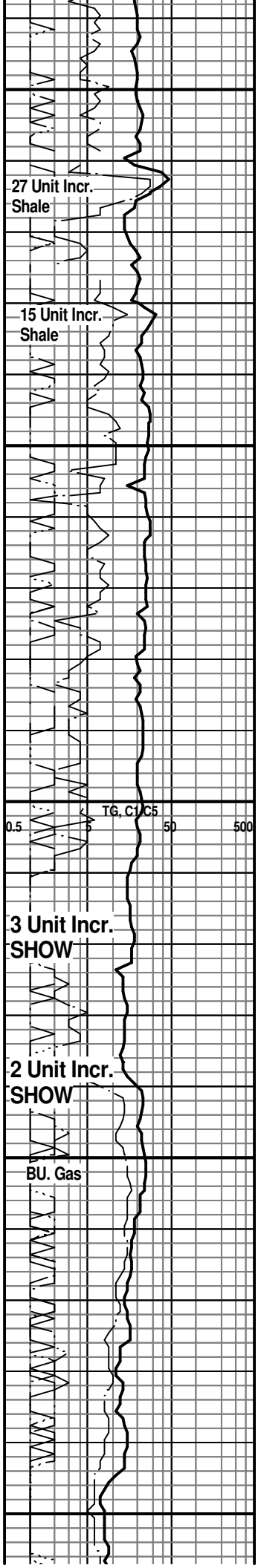
CHT; wh, opaque, porc, pred fresh, scat frags w/rare blk tar/gils on edges, no fluor, no stn or odor, ns.

CHT; wh, off wh, rare lt gy, porc, hd, all fresh, scat vug por w/fracs, partly dolomitic, dull yel min fluor, no stn or odor, ns.

DOL; tan, buff, lt gy, sucrosic, fair to gd interxln w/vug por, med yel min fluor, no stn or odor, cherty ip, rarely pyr, ns.

BASAL MISS. LMST 4887(-2624)

LM; tan to cream, rare lt brn, hd, blocky, no vis por, interbdd chalky lmst, cherty ip, no fluor, no stn or odor, ns.



Vis 07
Wt. 9.2
LCM 2#



CFS. at RTD.

MudCo. Mud
Check at RTD.
Vis 50 Wt. 9.15
WL 11.6 Cl 8800
PH 10.5 LCM 2#

4950

00



DOL; lt gy, tan, sucrosic, soft, gd interxln w/occ vug
por, med yel min fluor, cherty ip, no stn or odor, ns.

LM; off wh, buff, tan, fxln, partly dolomitic, lt yel fluor,
hd, blocky, no stn, ns.

RTD. 4930' at 6:15 AM. 7/23/12

LTD. 4922'

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

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

