

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: Naumann #1 'A' - 32
Location: 500' FSL & 600' FEL, Sec. 32-T27S-R18W, Kiowa Co., KS.
Licence Number: 15-097-21706-0000 Region: Einsel Field
Spud Date: 8/31/2011 Drilling Completed: 9/11/11
Surface Coordinates: 500' FSL & 600' FEL, Sec. 32-T27S-R18W

Bottom Hole Same as above
Coordinates:
Ground Elevation (ft): 2206' K.B. Elevation (ft): 2217'
Logged Interval (ft): 3350' To: TD. Total Depth (ft): 4900'
Formation: Kinderhook at Total Depth
Type of Drilling Fluid: Freshwater/Gel to 3330'; Chemical Mud 3330' to 4900'

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') 4217' - 4235' Test Times: None
With Test on bottom, lost circulation - Mis Run - not a valid test, no Fluid recovered; IHP 2055#, FHP 1901#.

No further DST's run due to potential lost circulation problems.

Comments

8/31/11 MIRU Sterling Drilling Co. Rig #2, Spud at 10:45 AM; 9/1/11 TD. 235' - WOC; 9/2/11 Drilling at 590'; 9/3/11 Drilling at 2075'; 9/4/11 Drilling at 2860'; 9/5/11 Drilling at 3388'; 9/6/11 Drilling at 3915'; 9/7/11 TD. 4235' - TIH for DST #1; 9/8/11 TD. 4235' - TIH to drill cement; 9/9/11 Drilling at 4384'; 9/10/11 Drilling at 4690'; 9/11/11 RTD. 4900' - TOH for Logs - reached TD. at 1:45 AM.

Set 13 3/8"(54.5#) Conductor at 198' w/300sx. cement(Basic Energy Services). Cement did Circulate. PD. 9:00 PM. 8/31/11.


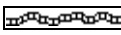
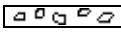
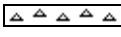
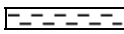







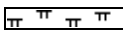

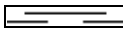
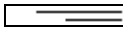
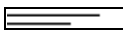



Set 8 5/8" (24#) Surface Casing at 478' w/300 sx. cement(Basic Energy Services). PD. 6:00 PM. 9/1/11.

Surveys: 0.75 Deg. at 235'(Conductor Casing); 0.75 Deg. at 483'(8 5/8" Surface Casing); 1 Deg. at 4235'(DST #1); Deg. at 4900' RTD.







































































Pipe Strap at 4235'(DST #1): Strap 2.08' Short to the Board, no correction made to the Board.

NOTE: During DST #1, circulation was lost - DST not valid due to loss of fluid. Log Tech, Inc. ran a Tracer survey and determined that the lost circulation zone was at 483'. Attempts to seal this loss zone with LCM failed. Basic Energy Services pumped 100 sx. of Thixotropic cement, sealing the loss zone, and drilling operations were resumed.

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

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  Wackst
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PP 900#
SPM 59
RPM 85

conn

LM; tan to lt gy brn, hd, blocky, scat foss mat, tite

SH; grn, gy grn, fiss

LM; tan to cream, off wh, med to cse xln, fair to gd interxln por, scat lt yel min fluor, no stn, no gas kick, ns.

SH; dk gy, fiss, occ pyr

TOPEKA 3709(-1492)

LM; tan to lt gy brn, hd, blocky, no vis por, ns.

LM; tan to cream, off wh, med xln, foss ip, abnt small pellets and foss mat, much soft chalky mtx, fair to gd interpart por, lt to med yel min fluor, no stn or odor, no gas kick, ns.

POOR SAMPLES

LM; off wh, cream, buff, foss ip, scat cse foss frags, fair to gd interpart por, interbdd soft chalky lmst, dull to lt yel min fluor, no stn or odor, no gas kick, ns.

LM; off wh, tan to cream, foss, scat gd interpart por, much soft chalky mtx, interbdd finely pelletal chalky lmst, no stn or odor, no gas kick, barren, ns.

VERY POOR SAMPLES DUE TO LOW MUD VIS.

SH; grn, gy grn, flakey

LM: lt to med brn, hd, micritic, blocky, tite

LM; off wh, cream, buff, f to med xln, gd interxln por, much soft chalky mtx, lt yel min fluor only, no stn or odor, no gas kick, ns.

LM; off wh, tan - lt brn, foss to occ cse xln, gran text ip, interbdd wh foss cht, lt yel fluor, ns.

LM; tan to off wh, foss ip, scat wh cht, most dense, blocky, tite

LM; off wh, tan, buff, f to med xln ip, interbdd hd micrite, scat well cem foss mat, occ dull yel min fluor, no stn or odor, ns.

LM; tan to cream, lt brn, foss ip, most dense, blocky, scat off wh to lt gy cht, no fluor, ns.

3700

3750

3800

3850

conn
Vis 36
Wt. 9.0
LCM 1#

conn

conn
Vis 35
Wt. 9.0
LCM 0.5#

ROP (min/ft) 10
Gamma (API) 150

conn

A.V.= 112.50

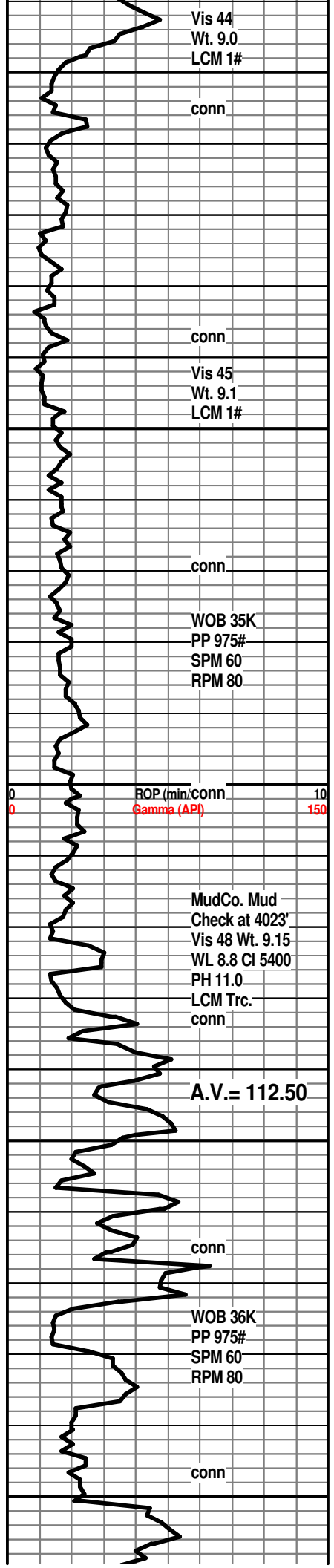
WOB 36K
PP 925#
SPM 60
RPM 90-95

conn

Vis 46
Wt. 9.0
LCM 1#

conn

TG, C1, C5
0.5 5 50 500



Vis 44
Wt. 9.0
LCM 1#

conn

conn

Vis 45
Wt. 9.1
LCM 1#

conn

WOB 35K
PP 975#
SPM 60
RPM 80

ROP (min/conn)
Gamma (API)

MudCo. Mud
Check at 4023'
Vis 48 Wt. 9.15
WL 8.8 Cl 5400
PH 11.0
LCM Trc.
conn

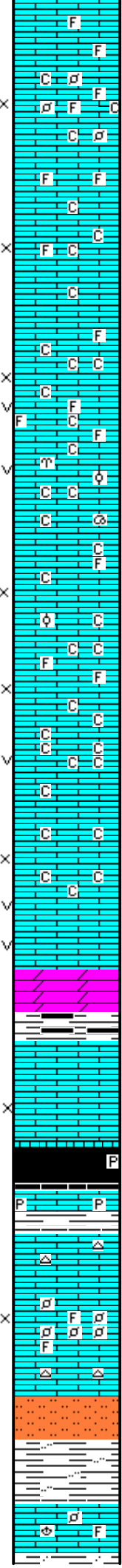
A.V. = 112.50

conn

WOB 36K
PP 975#
SPM 60
RPM 80

conn

3900
3950
4000
4050
4100



scat on wh to lt gy cht, no fluor, ns.

LM; tan to cream, off wh, foss w/occ pelletal lmst, soft chalky mtx, dull yel fluor, ns.

LM; tan to cream, buff, gran to cse xln, scat foss mat, fair interxln por, soft chalky mtx, dull yel min fluor, ns.

LM; tan to cream, off wh, foss, med xln, fair interpart por, scat small vug por, chalky ip, no stn or odor, ns.

LM; tan to cream, med to cse xln, scat spar calc xtals, occ foss mat, fair interpart por, chalky ip, dull yel min fluor, ns.

LM; tan to lt brn, off wh, med to cse xln, fair interxln w/scat vug por, much soft chalky mtx, lt yel min fluor, no stn or odor, ns.

LM; tan to off wh, med to cse xln, scat opaque cse spar calc xtals, occ vug por, scat soft chalky mtx, lt yel min fluor, no stn or odor, ns.

LM; off wh, tan, med to cse xln, gd interxln w/vug por, scat cse spar calc xtals, ns.

DOL; tan to lt brn, sucrosic, gd interxln por, lt yel fluor, no stn or odor, no gas kick, ns.

SH; dk gy to blk, platy

LM; tan to lt brn, off wh, med xln, fair interxln por, scat off wh to gy cht, interbdd foss lmst w/poor interpart por, lt yel fluor, ns.

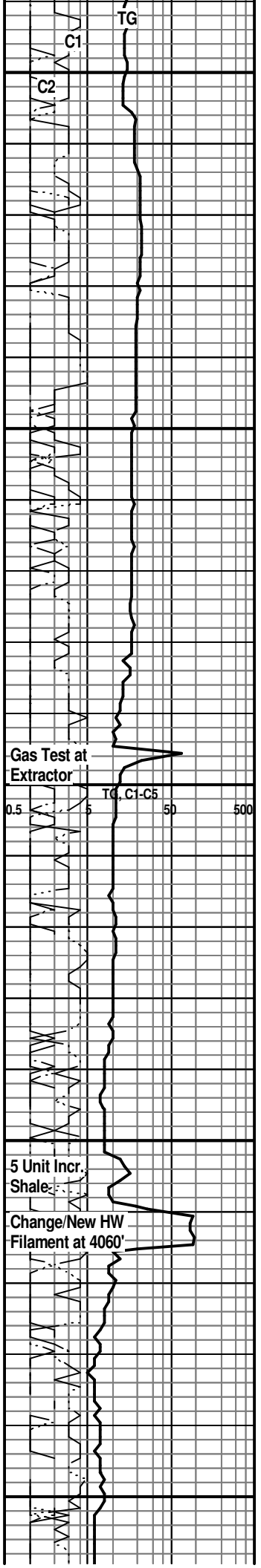
HEEBNER SHALE 4051(-1834)
SH; blk, carb ip, platy, occ pyr
LM; med brn, dense, v. hd, pyr ip

TORONTO 4063(-1846)
LM; tan to lt brn, foss, med xln, scat gy cht, most dense, lt yel fluor, no stn or odor, ns.

LM; tan to off wh, med xln to gran text, off finely pelletal, gd interxln por, lt yel fluor, no stn or odor, no gas kick, ns.

DOUGLAS SHALE 4086(-1869)
SLTST; lt gy, soft, occ mica
SH; grn, gy grn, fiss, silty ip.

LM; lt to med brn, blocky, dense, scat well cem foss, no vis por, ns.

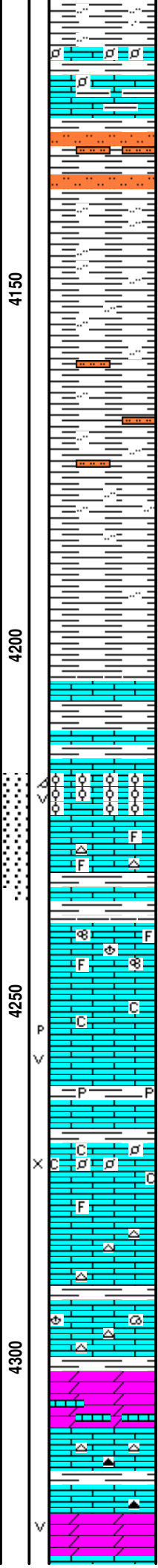
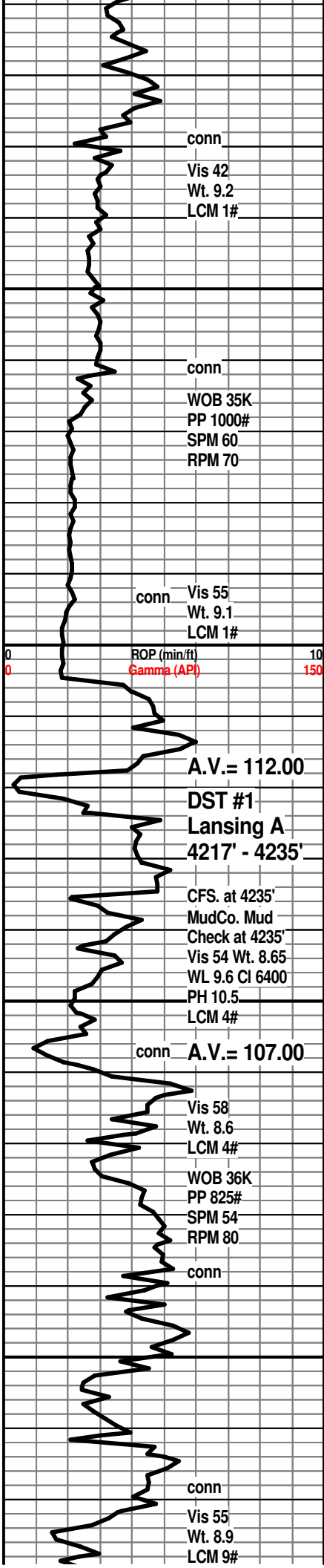


Gas Test at Extractor

TG, C1-C5

5 Unit Incr. Shale

Change/New HW Filament at 4060'



SH; lt gy to gy grn, fiss, silty to sandy

LM; med gy to gy brn, foss - pelletal, well cem, most blocky, interbdd shaly lmst

SH; lt to med gy, interbdd firm lt gy sltst

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

SH; lt to med gy, fiss to flakey, occ silty w/interbdd sltst strngs.

LM; lt gy, occ gy grn, platy to flakey, occ silty

BROWN LMST. 4205(-1988)
LM; med brn, foss ip, dense

LANSING 'A' 4216(-1999)
LM; tan to lt brn, foss-oolitic, lrg molds - gd oomoldic por, occ lrg vug por, brittle, some rextalized, scat lt brn oil stn, VSSFO, med yel fluor, faint odor, sev. gas bubbles, fair/poor cut

LM; lt to med brn, hd, cherty ip, rarely foss, tite
DST #1: Lansing 'A' 4217' - 4235' SEE NOTES in Header

LANSING 'B' 4239(-2022)
LM; tan to cream, lt brn, foss ip, most well cem, lt to med yel fluor, no vis stn, no odor, ns.

LM; lt gy, med xln, gd vis p-p and vug por, dull yel fluor, no stn or odor, minor chalky mtx, no gas kick, ns.

SH; med gy, grn, platy, occ pyr

LM; tan to cream, off wh, foss - finely pelletal ip, fair interpart por, minor chalky mtx, dull to lt yel min fluor, no stn, no gas kick, ns.

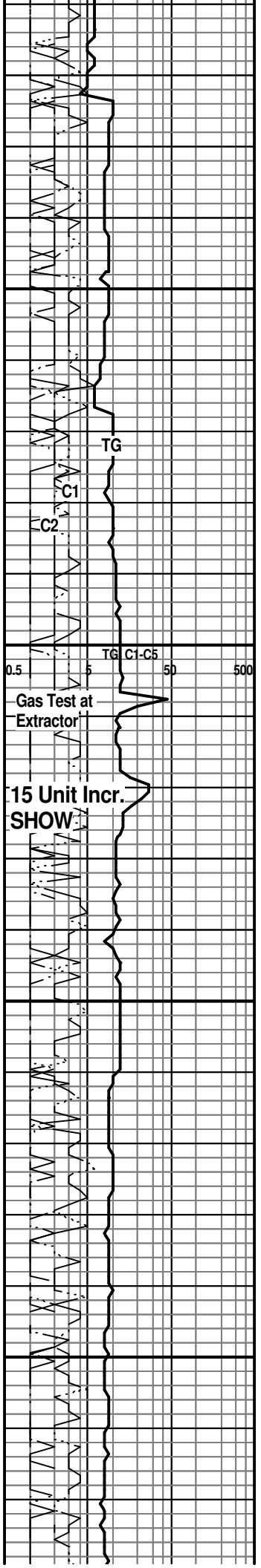
LM; tan to lt brn, fxln, most dense, blocky, scat off wh cht, tite

LM; tan to off wh, buff, foss ip, most dense - micritic, occ gy cht, tite, ns.

DOL; off wh, tan, sucrosic, lmy ip, fair interxln por, lt yel fluor, no stn or odor, ns.

LM; lt brn, hd, blocky, occ cherty, tite

DOL; wh, off wh, rare tan, sucrosic to finely rhombic, fair vug por, soft ip, dull yel to no fluor, no stn or odor, ns.



WOB 38K
PP 825#
SPM 54
RPM 80

conn

Vis 53
Wt. 8.9
LCM 8#

conn

WOB 35K
PP 850#
SPM 53
RPM 75

A.V. = 107.00

MudCo. Mud
Check at 4416'
Vis 53 Wt. 9.1
WL 9.6 Cl 9300
PH 9.5
LCM 7#

conn

WOB 35K
PP 925#
SPM 54
RPM 75

conn

Vis 52
Wt. 9.2
LCM 8#

conn

Vis 56
Wt. 9.3
LCM 8#

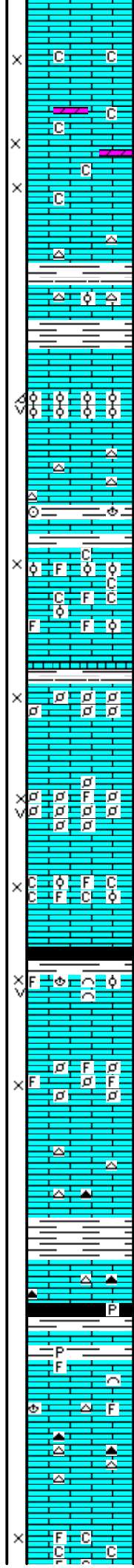
conn

4350

4400

4450

4500



LM; off wh, tan to cream, fxln, occ soft chalky mtx, fair interxln por, minor cse spar calc xtals, no fluor, no stn or odor, ns.

LM; tan to cream, buff, fxln, much soft chalky mtx, some sucrosic text, dolomitic ip, dull yel min fluor, no stn, no gas kick, ns.

SH; med to dk gy, firm, platy

LM; med gy brn, hd, blocky, scat oolitic cht, tite

LANSING/KC 'H' 4378(-2161)

LM; tan to lt brn, oolitic, med size molds, gd oomoldic w/scat vug por, brittle, dull yel fluor, no stn or odor, some rextalized, no gas kick, ns.

LM; tan to lt brn, blocky, occ gy to off wh cht, tite

SH; med gy grn, platy, foss

LM; tan to cream, foss - partly oolitic, small ooids, poor to fair interpart por, scat soft chalky mtx, no stn or odor, no gas kick, ns.

K.C. 'I' 4425(-2208)

LM; tan to cream, foss, some gran/med xln, occ small foss pellets, weakly cem, dull yel fluor, trc lt brn stn, no odor, quest. gas bubbles, weak/ns.

LM; off wh, lt brn, oolitic/pelletal, fair/gd interpart w/scat vug por, spotted lt brn oil stn, fair odor, trc gas bubbles, med/lt yel fluor, trc FO(light)

LM; tan to lt brn, off wh, foss to med xln, scat foss mat, fair interxln por, occ soft chalky mtx, lt yel min fluor, no vis stn, no odor, ns.

SH; dk gy, trc blk, platy

K.C. 'J' DENNIS 4465(-2248)

LM; tan to cream, buff, foss ip, fair interpart w/scat small vug por, trc lt brn oil stn, no odor, no cut, most barren porosity

LM; tan to lt brn, foss - finely pelletal, gd interpart por in some, dull yel fluor, no vis stn, no odor, no gas kick, ns.

LM; tan to buff, lt brn, hd, blocky, no vis por, scat tan to amber cht, tite

SH; dk gy, firm, platy, lmy

LM; tan to lt brn, hd, argil ip, scat amber to dk gy cht, tite

STARK SHALE 4512(-2295)

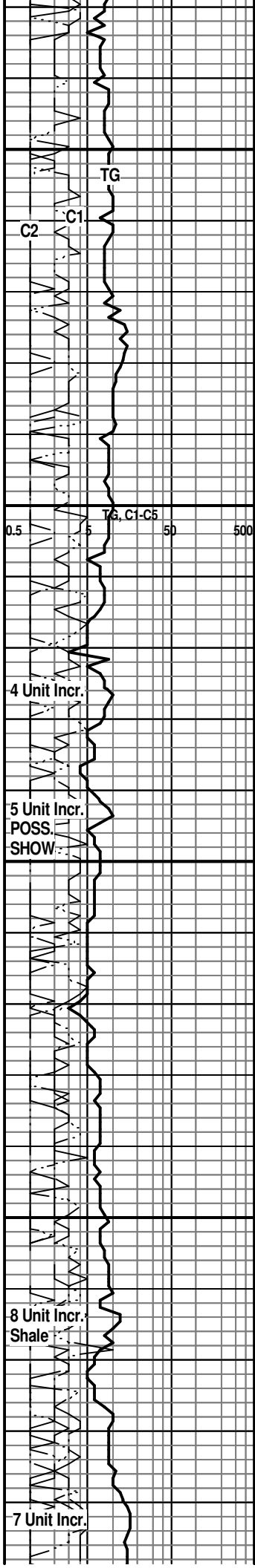
SH; blk, platy, trc gas, pyr ip.

SWOPE 4520(-2303)

LM; tan to lt brn, buff, foss ip, most dense - micritic, blocky, no vis por, no fluor, ns.

LM; med brn, med gy, hd, micritic, blocky, interbdd off wh to amber cht, tite

LM; tan to off wh, wh, fxln, foss ip, some sucrosic text,



TG
C2
C1

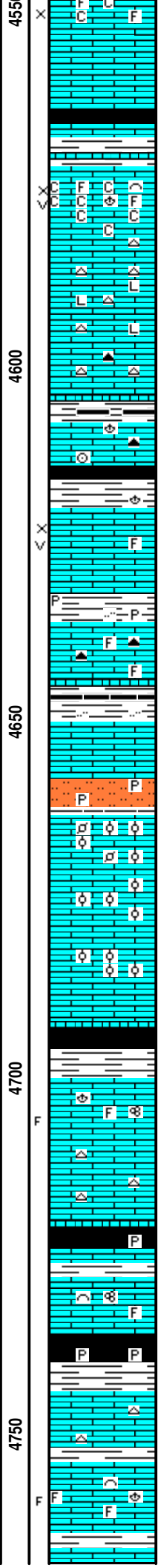
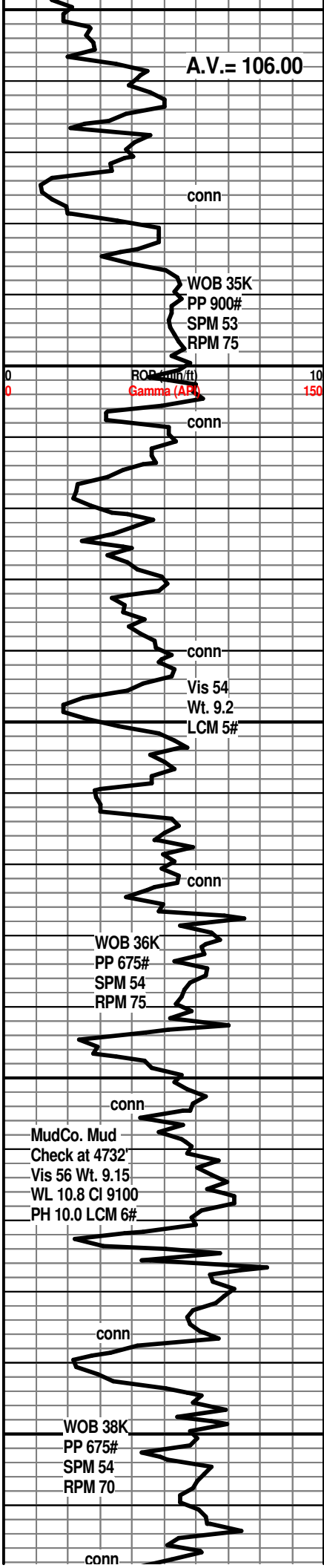
0.5 5 50 500
TG, C1-C5

4 Unit Incr.

5 Unit Incr.
POSS.
SHOW

8 Unit Incr.
Shale

7 Unit Incr.



fair interxln por, much soft chalky mtx, dull to lt yel min fluor only, no stn or odor, no sample shows

SH; blk, carb ip, platy

HERTHA 4573(-2356)
LM; tan to cream, buff, fxln w/scat foss mat, occ soft chalky mtx, fair to gd interpart por, occ vug por, dull yel min fluor only, no stn or odor, no gas kick, ns.

LM; tan to cream, hd, micritic, some litho, cherty ip, tite

LM; med to dk brn, hd, blocky, scat tan to amber cht

BASE KANSAS CITY 4605(-2388)
SH; dk gy, trc blk, platy

LM; med gy brn, hd, foss ip, tite

SH; blk, dk gy, grn, platy, occ foss

PLEASANTON 4620(-2403)
LM; tan to lt brn, med xln, scat gd interxln w/some vug por, lt yel fluor, no stn or odor, no gas kick, ns.

SH; grn, platy, smooth, occ pyr

LM; tan to med brn, foss ip, most dense, scat dk brn foss cht, no vis por, ns.

SH; grn, dk gy, brn, platy, silty ip.

MARMATON 4650(-2433)
LM; lt gy, pale grn, hd, nodular ip, tite

SLTST; grn, soft, occ pyr

LM; tan to off wh, buff, foss - oolitic, well cem ooids and pellets, hd, dull yel fluor, no stn odor, no gas kick, ns.

LM; tan to lt brn, foss - oolitic ip, most well cem, scat blk tarry dead oil, lt yel fluor, no odor, no live shows

LM; tan to off wh, cream, foss - oolitic ip, most well cem, minor chalky mtx, scat v. dk brn/blk residual oil stn, no odor, lt yel fluor, weak/no cut

SH; blk, carb ip, platy

PAWNEE 4700(-2483)
LM; tan to cream, foss, most dense, scat frags w/ blk tarry dead oil on faces, dull yel fluor, faint odor, no live shows, weak cut

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

SH; blk, hd, carb ip, platy, rare pyr

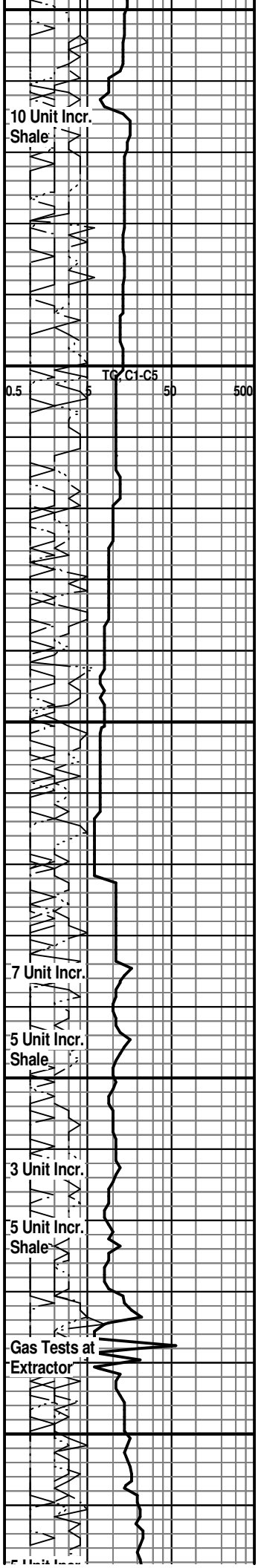
LM; tan to lt brn, buff, rarely foss, most dense - micritic, no vis por, dull yel fluor, ns.

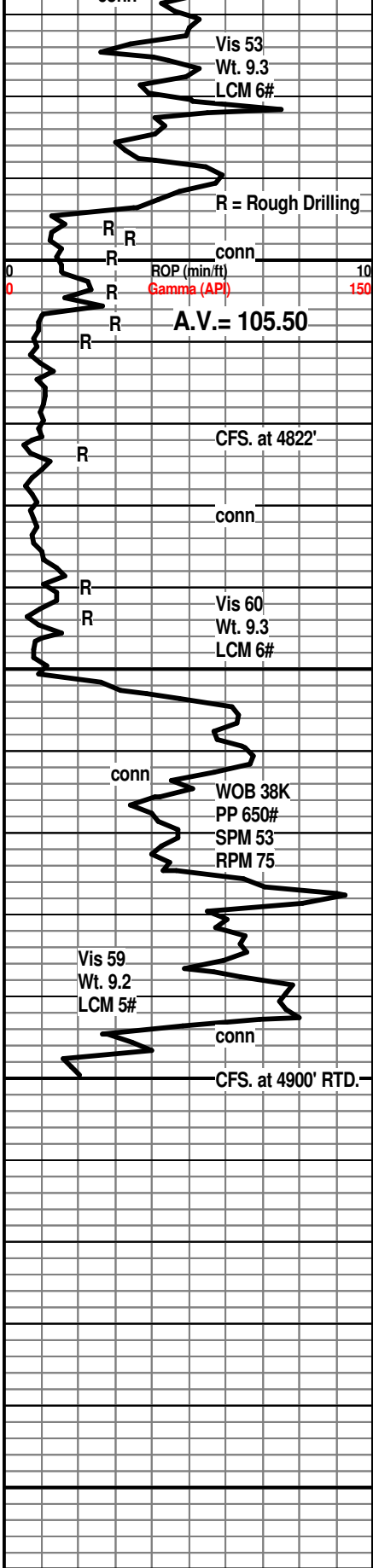
CHEROKEE SHALE 4737(-2520)
SH; blk - dk gy, platy, occ pyr

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

LM; tan to med brn, foss ip, scat spar calc xtals, trc frags, dull yel fluor, no stn or odor, no gas kick, ns.

SH; dk gy, blk, fine, platy





SH; dk gy, blk, nss, platy
LM; tan to cream, lt brn, foss ip, scat foss mat, poor interpart por, occ dk brn/blk dead oil stn, lt yel fluor, no odor, no gas kick, tite
SH; grn, gy grn, interbdd grn nodular partly weathered lmst, scat med gr qtz wh ss clusters
CONGL; weath grn sandy cht, weath lmst, off ch cht w/blk tarry dead oil

MISSISSIPPI CHERT 4794(-2576)
 ● CHT; wh, off wh, pale grn, fresh to weath - interbdd tripolite, lt/med yel fluor, some grainy - sandy grn cht, SSFO, trc gas bubbles
 ● CHT; wh, off wh, most tripolite, gd p-p and vug por, occ fresh cht w/fracs, spotted to even lt/med brn stn, SFO, faint oil/gas odor, brite yel fluor, gd strmg cut, gas bubbles
 ● CHT; wh, incr. amt of fresh cht, fracs, occ lrg qtz xtals, SFO, med/brite yel fluor, spotted to even stn, fair odor
 ● CHT; wh, porc, most fresh, scat fracs w/weathered edges, occ vug por, scat/v. spotted lt brn oil stn, faint odor, occ med/brite yel fluor, decreasing shows
 ● CHT; wh, off wh, rare org, most fresh, scat fracs, rare lt brn stn, occ blk dead tar/gilsonite, dull yel to no fluor

LM; med brn, hd, massive bdd, scat brn cht, tite

KINDERHOOK SHALE 4862(-2645)
 SH; med grn, some gy grn, firm, platy, occ silty, interbdd strngs of gy vf gr qtz ss
 SH; med gy, grn, silty, interbdd sltst, v. firm, occ dk gy to blk carb strks w/pyr

KINDERHOOK SS 4894(-2677)
 SS; wh, pale grn, f gr qtz, clusters, well srt, subrnd/subang, fair/gd intergran por, no stn or odor, no gas kick, barren

RTD. 4900' at 1:45 AM. 9/11/11

LTD.

Halliburton DIL, NEU/DEN, Microlog, MIRL

