LITHOLOGY STRIP LOG
WellSight Systems
Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name:	Blessed Acres #2-18		
Location:	335' FSL & 1,022' FEL, Sec. 18-T27S-R18W, Kiowa Co., KS.		
License Number:	15-097-21754-0000	Region:	Wildcat
Spud Date:	5/13/2013	Drilling Completed:	5/23/13
Surface Coordinates:	335' FSL & 1022' FEL, Sec. 18-T27S-R18W		
Bottom Hole Coordinates:	Same as above		
Ground Elevation (ft):	2,186'	K.B. Elevation (ft):	2,197'
Logged Interval (ft):	3,350' To: TD.	Total Depth (ft):	4,925'
Formation:	Kinderhook.		
Type of Drilling Fluid:	Native Mud/Gel to 3,013'; Chemical Gel 3013' to TD.		

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OPERATOR

Company: Herman L. Loeb, LLC.
Address: P.O. Box 838
Lawrenceville, IL. 62439-0838

GEOLOGIST

Name: Jon D. Christensen / James R. Hall (4,749' to RTD)
Company: Consulting Petroleum Geologist
Address: 9002 W. Silver Hollow St.
Wichita, KS. 67205-8856

Cores

None Taken

DSTs

DST #1(K.C. "J" Dennis Zone) 4434' - 4465' Test Times 15"-45"-45"-90" IFP Fair 4" Blow, FFP Strong Blow BOB/12 Min., no Gas to Surface, no Blowback on SI's; REC: 819' Gas in Pipe, 2' CGO, 63' GOCWM(20%G, 10%O 40%W, 30%M), 63' MW(70%W, 30%M), 184' SW, (Cl 100,000, Mud Cl 5,000); IFP 24-86#, ISIP 1434#, FFP 100- 156# FSIP 1428#, IHP 2190#, FHP 2125#, BHT 122 Deg. F.

DST #2 Mississippi & Conglomerate 4,726' to 4,794' (68'), 15-45-45-90, IH 2529, IF 43-51 (BOB 2.5min), ISI 962 (no blow), FF 50-64 (BOB immediately, no gas to surface), FSI 1321 (no blow), FH 2481, Rec; 660' gas in pipe, 90' gas cut mud (5%gas,95%mud). BHT 124F.

DST #3 (Mississippi), 4,794' to 4,814' (20'), 15-45-45-90, IH 2401, IF 20-65 (4.5" in 15min.), ISI 1516 (no blow), FF 71-136 (6.5" in 45min.), FSI 1516 (no blow), FH 2304, Rec; 30' SO&MCW (1%oil, 54%water, 45%mud), 63' MCW (60%water, 40%mud), 185' water, Rwa 0.65 @ 76 F, (0.039 @ BHT), Chl 120,000ppm, mud 5,100ppm, BHT 127 F.

Comments

5/13/13 MIRU Sterling Drilling Co. Rig #2, Spud at 7:00 PM.; 5/14/13 TD. 590' - Cementing Surface Casing; 5/15/13 Drilling at 1400'; 5/16/13 Drilling at 2598'; 5/17/13 Drilling at 3300'; 5/18/13 Drilling at 3809'; 5/19/13 Drilling at 4325'; 5/20/13 TD. 4465' - TOH with DST #1; 5/21/13 Drilling at 4705'; 5/22/13 Finish DST #2; 5/23/13 DST #3, Drilling at 4920'. Reached RTD 4,925' @07:19 hrs. 5/23/13. Log TD 4,925'.

Set new 8 5/8"(24#) Surface Casing at 584' with 350 sx. of Cement(Basic Energy Services). Cement did Circulate. PD. 7:00 AM. on 5/14/13.

Surveys: 0.75 Deg. at 590'(Surface Casing); 0.75 Deg. at 4465'(DST #1); 1 Deg. at 4,794' (DST #2).

Strap pipe prior to DST #3 @ 4,814', (1.91' short to the board).

NOTE: James R. Hall took over Wellsite Geological Supervision at 4,749' and finished the Blessed Acres #2-18.

LOG TOPS: Chase 2444(-247), Stotler Lmst. 3392(-1195), Howard 3590(-1393), Queen Hill Shale 3900(-1703), Heebner Shale 4032(-1835), Brown Lmst. 4180(-1983), Lansing "A" 4186(-1989), Lansing/KC "H" 4352(-2155), Stark Shale 4488(-2291), Hertha 4542(-2345), Base Kansas City 4572(-2375), Marmaton 4619(-2422), Pawnee 4664(-2467), Cherokee Shale 4702(-2505), Conglomerate Chert 4753(-2556), Miss Chert 4777(-2580), Kinderhook Shale 4834(-2637), Kinderhook Sand 4868(-2671).

After review of the Halliburton Logs, DST data and sample log the operator selected to run 5.5" casing.

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

BS Boundst
C Chalky
CX Cryxln
E Earthy
FX Finexln
GS Grainst
L Lithogr
MX Microxln
MS Mudst
PS Packst
WS Wackest

OTHER SYMBOLS

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

SORTING
- Well
- Moderate
- Poor

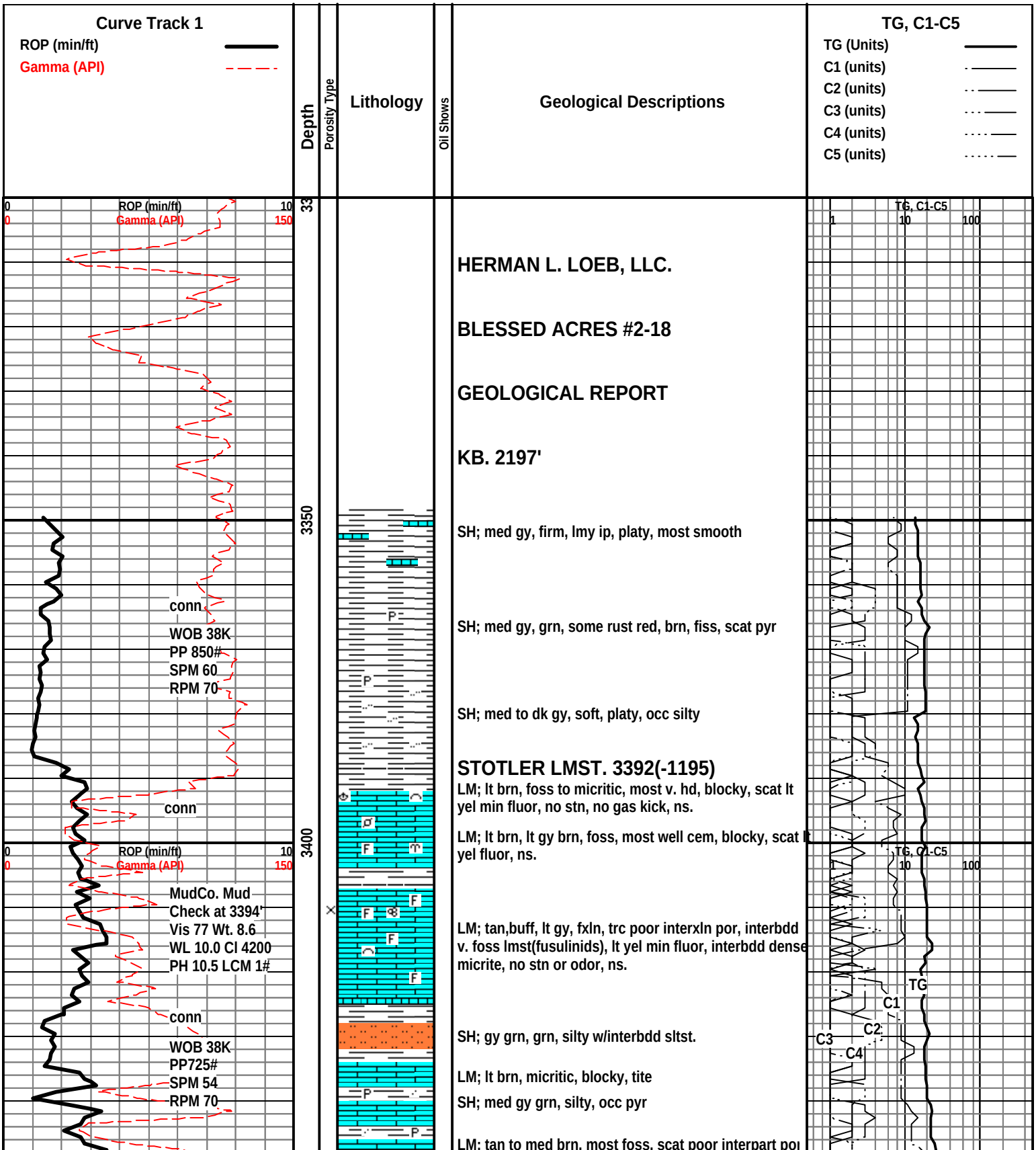
ROUNDING
- Rounded
- Subrnd
- Subang

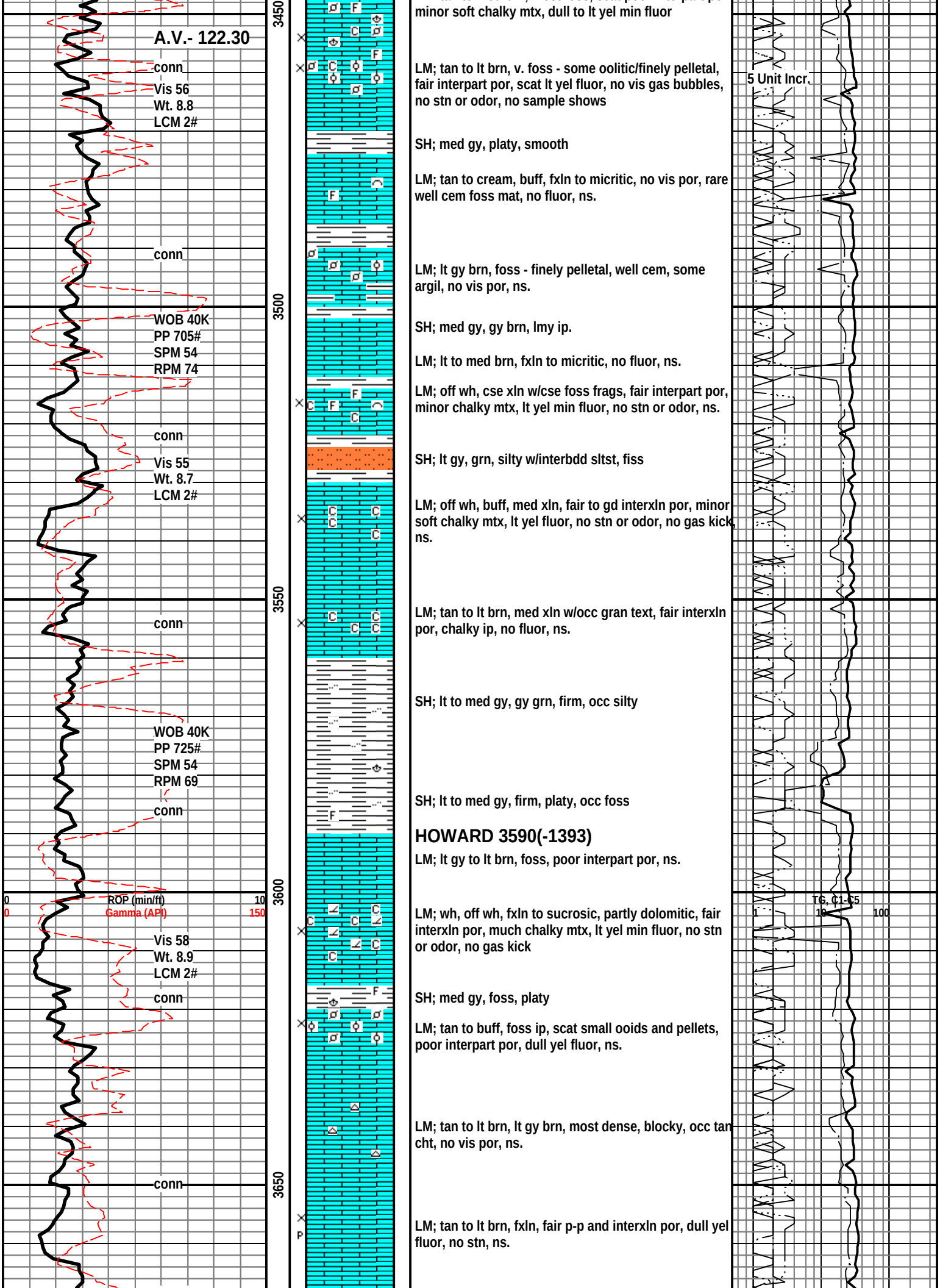
- Angular

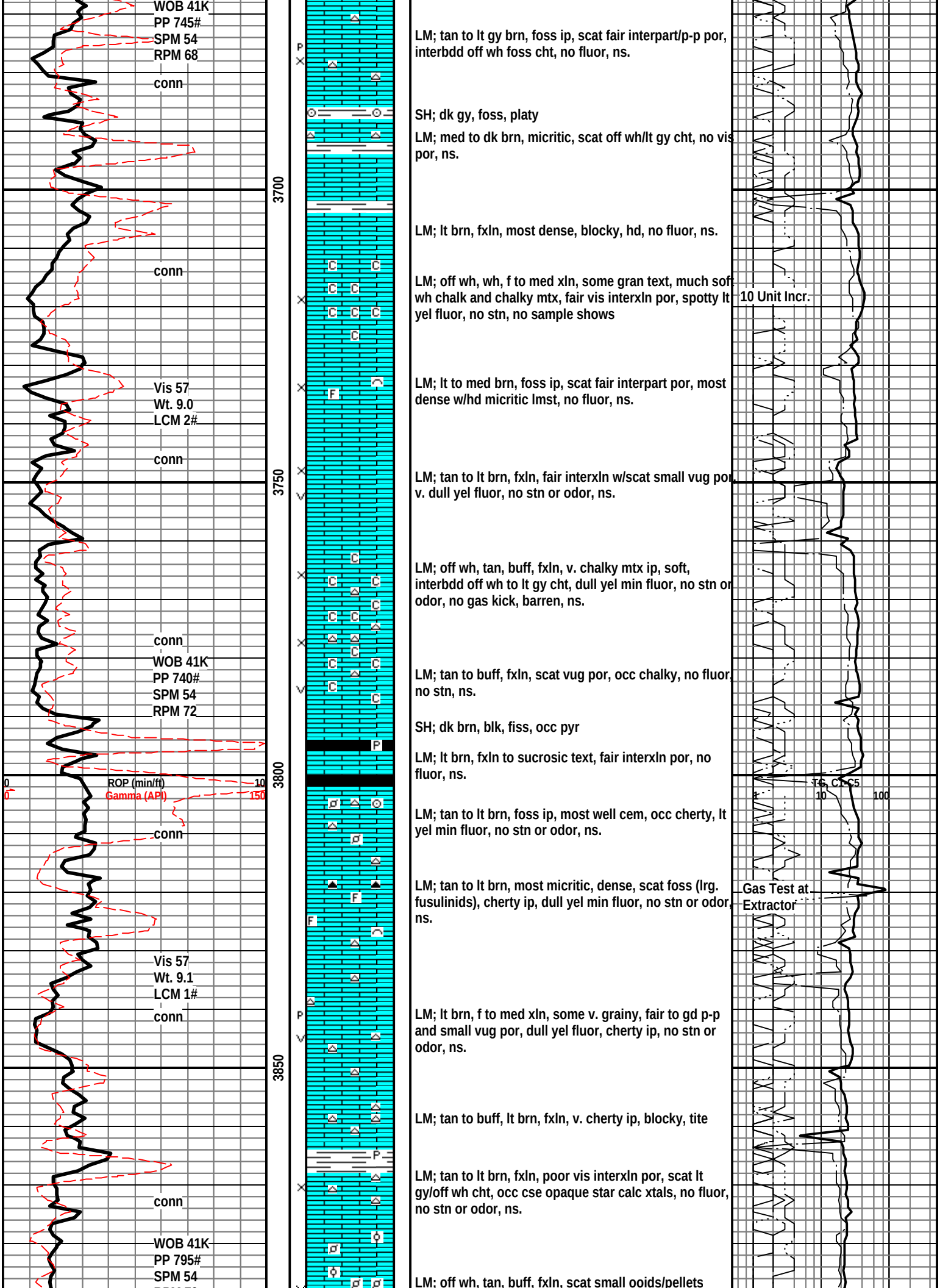
OIL SHOW
- Even
- Spotted
- Ques
- Dead

INTERVAL
- Core
- Dst

EVENT
- Rft
- Sidewall




A.V.- 122.30
conn
Vis 56
Wt. 8.8
LCM 2#
conn
WOB 40K
PP 705#
SPM 54
RPM 74
conn
Vis 55
Wt. 8.7
LCM 2#
conn
WOB 40K
PP 725#
SPM 54
RPM 69
conn
0
ROP (min/ft)
10
0
Gamma (API)
150
Vis 58
Wt. 8.9
LCM 2#
conn
conn
3450
3500
3550
3600
3650
minor soft chalky mtx, dull to lt yel min fluor
LM; tan to lt brn, v. foss - some oolitic/finely pelletal, fair interpart por, scat lt yel fluor, no vis gas bubbles, no stn or odor, no sample shows
SH; med gy, platy, smooth
LM; tan to cream, buff, fxln to micritic, no vis por, rare well cem foss mat, no fluor, ns.
LM; lt gy brn, foss - finely pelletal, well cem, some argil, no vis por, ns.
SH; med gy, gy brn, lmy ip.
LM; lt to med brn, fxln to micritic, no fluor, ns.
LM; off wh, cse xln w/cse foss frags, fair interpart por, minor chalky mtx, lt yel min fluor, no stn or odor, ns.
SH; lt gy, grn, silty w/interbdd sltst, fiss
LM; off wh, buff, med xln, fair to gd interxln por, minor soft chalky mtx, lt yel fluor, no stn or odor, no gas kick, ns.
LM; tan to lt brn, med xln w/occ gran text, fair interxln por, chalky ip, no fluor, ns.
SH; lt to med gy, gy grn, firm, occ silty
SH; lt to med gy, firm, platy, occ foss
HOWARD 3590(-1393)
LM; lt gy to lt brn, foss, poor interpart por, ns.
LM; wh, off wh, fxln to sucrosic, partly dolomitic, fair interxln por, much chalky mtx, lt yel min fluor, no stn or odor, no gas kick
SH; med gy, foss, platy
LM; tan to buff, foss ip, scat small ooids and pellets, poor interpart por, dull yel fluor, ns.
LM; tan to lt brn, lt gy brn, most dense, blocky, occ tan cht, no vis por, ns.
LM; tan to lt brn, fxln, fair p-p and interxln por, dull yel fluor, no stn, ns.
5 Unit Incr.
TG, C1-C5
1
10
100


WOB 41K
PP 745#
SPM 54
RPM 68
conn
3700
conn
Vis 57
Wt. 9.0
LCM 2#
conn
3750
conn
WOB 41K
PP 740#
SPM 54
RPM 72
0
ROP (min/ft)
10
0
Gamma (API)
150
3800
conn
Vis 57
Wt. 9.1
LCM 1#
conn
3850
conn
WOB 41K
PP 795#
SPM 54
LM; tan to lt gy brn, foss ip, scat fair interpart/p-p por, interbdd off wh foss cht, no fluor, ns.
SH; dk gy, foss, platy
LM; med to dk brn, micritic, scat off wh/lt gy cht, no vis por, ns.
LM; lt brn, fxln, most dense, blocky, hd, no fluor, ns.
LM; off wh, wh, f to med xln, some gran text, much soft wh chalk and chalky mtx, fair vis interxln por, spotty lt yel fluor, no stn, no sample shows
10 Unit Incr.
LM; lt to med brn, foss ip, scat fair interpart por, most dense w/hd micritic lmst, no fluor, ns.
LM; tan to lt brn, fxln, fair interxln w/scat small vug por, v. dull yel fluor, no stn or odor, ns.
LM; off wh, tan, buff, fxln, v. chalky mtx ip, soft, interbdd off wh to lt gy cht, dull yel min fluor, no stn or odor, no gas kick, barren, ns.
LM; tan to buff, fxln, scat vug por, occ chalky, no fluor, no stn, ns.
SH; dk brn, blk, fiss, occ pyr
LM; lt brn, fxln to sucrosic text, fair interxln por, no fluor, ns.
TG, C1-C5
1
10
100
LM; tan to lt brn, foss ip, most well cem, occ cherty, lt yel min fluor, no stn or odor, ns.
LM; tan to lt brn, most micritic, dense, scat foss (lrg. fusulinids), cherty ip, dull yel min fluor, no stn or odor, ns.
Gas Test at Extractor
LM; lt brn, f to med xln, some v. grainy, fair to gd p-p and small vug por, dull yel fluor, cherty ip, no stn or odor, ns.
LM; tan to buff, lt brn, fxln, v. cherty ip, blocky, tite
LM; tan to lt brn, fxln, poor vis interxln por, scat lt gy/off wh cht, occ cse opaque star calc xtals, no fluor, no stn or odor, ns.
LM; off wh, tan, buff, fxln, scat small ooids/pellets

RPM 70

A.V.= 122.35

3900

conn

MudCo. Mud Check at 3904'
Vis 59 Wt. 9.2
WL 12.8 Cl 5000
PH 9.0 CLM 1#

conn

3950

WOB 41K
PP 805#
SPM 54
RPM 70

conn

4000

conn

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

Vis 58
Wt. 9.4+
LCM 1#

A.V.= 122.38

conn

WOB 41K
PP 830#
SPM 54
RPM 65

4050

conn

Vis 53
Wt. 9.4
LCM 1#

conn

4100

poor interxln por, dull yel fluor, no gas kick, ns.

QUEEN HILL SHALE 3900(-1703)

SH; blk, soft, pyr ip, platy

LM; tan to lt brn, foss - occ pellets/hash, firm, poor interpart por, lt yel fluor, no stn or odor, ns.

LM; tan to lt brn, med xln to gran text, fair interxln por, rare p-p por, scat foss mat, lt yel min flour, no stn or odor, ns.

LM; lt brn, fxln, some gran text, minor soft chalky mtx, fair interxln por, lt yel fluor, ns.

LM; tan to buff, off wh, f to med xln, chalky, poor interxln por, interbdd dolomitic lmst w/some sucrosic text, lt yel fluor, ns.

DOL; lt brn, finely rhombic to sucrosic, fair interxln por, lt yel fluor, no stn or odor, ns.

LM; off wh, buff, med xln, fair interxln por, v. chalky - soft, lt yel fluor, no stn or odor, ns.

SH; dk gy, some blk, platy, pyr ip.

LM; lt gy, lt brn, foss, scat small pellets and hash, fair interpart por, dull yel fluor, ns.

LM; wh, off wh, f to med xln, scat cse spar calc xtals, minor chalky mtx, fair interxln w/some vug por, lt yel fluor, no stn, no gas kick, ns.

HEEBNER SHALE 4032(-1835)

SH; blk, carb, platy, trc pyr

LM; med brn, dense, micritic, pyr ip.

SH; grn/brite grn, silty w/interbdd sltst.

TORONTO 4045(-1848)

LM; off wh, tan, fxln to micritic, scat off wh cht, no vis por, lt yel min fluor, no stn, ns.

LM; tan to off wh, lt brn, foss, fair p-p and small vug por, lt yel min fluor, no stn or odor, no gas kick, ns.

DOUGLAS SHALE 4070(-1873)

SH; lt gy, gy grn, silty w/interbdd sltst.

LM; lt to med brn, foss ip, hd, well cem, scat pyr, no st or odor, ns.

SH; lt gy, grn, soft, silty ip.

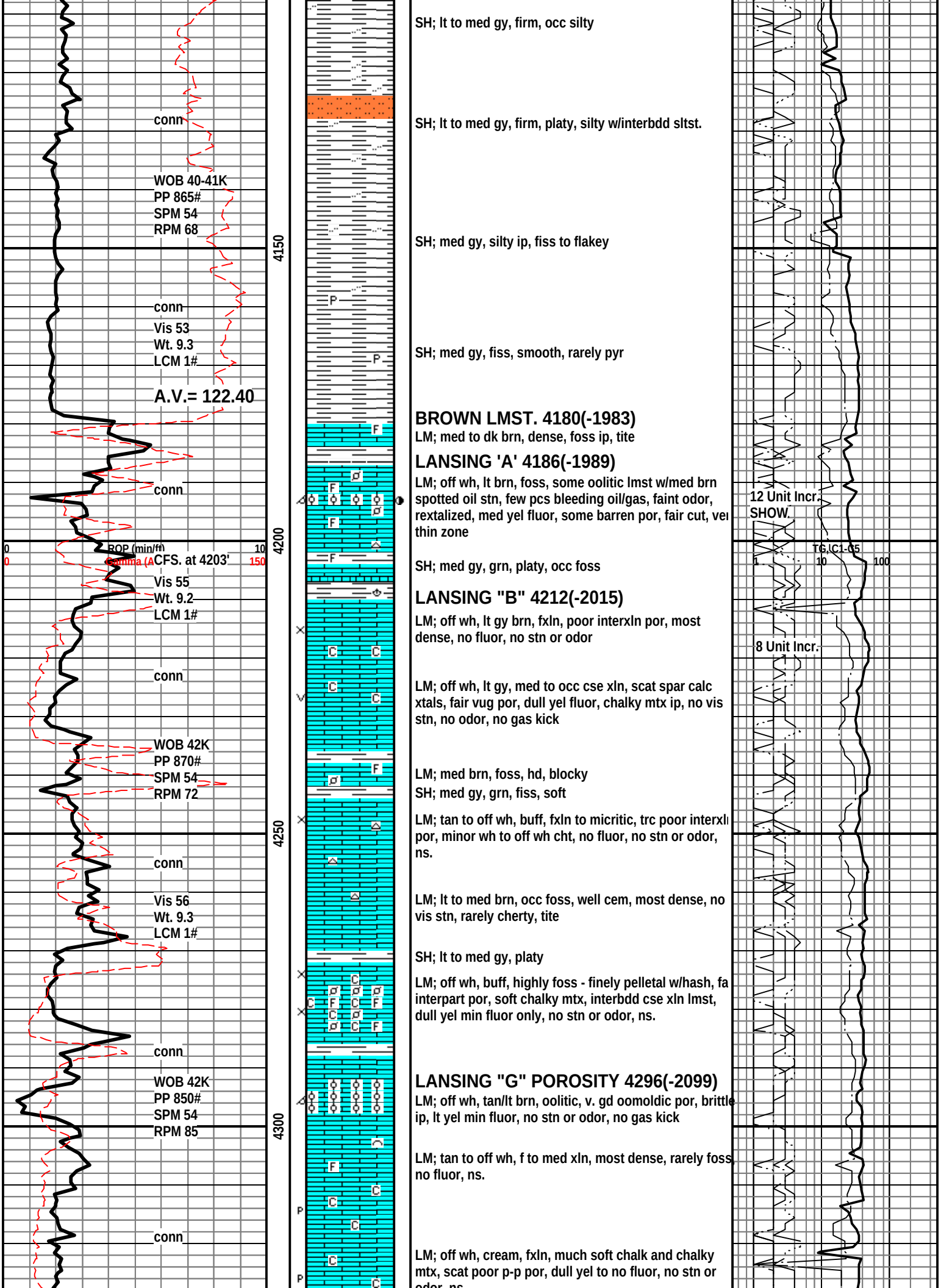
SS; lt gy, vf to f gr qtz, mica, argil ip, firm, no vis por, ns.

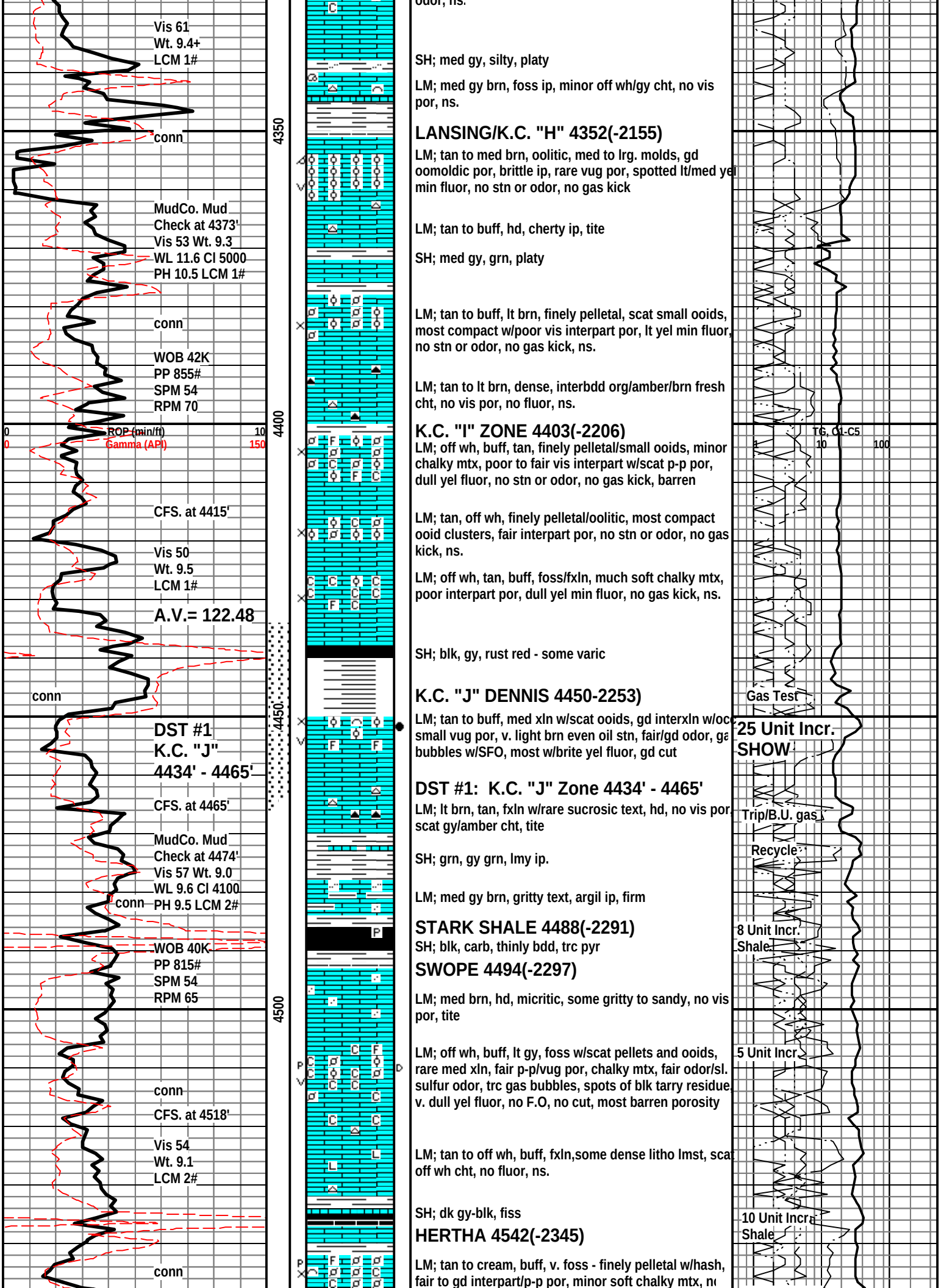
14 Unit Incr. Shale

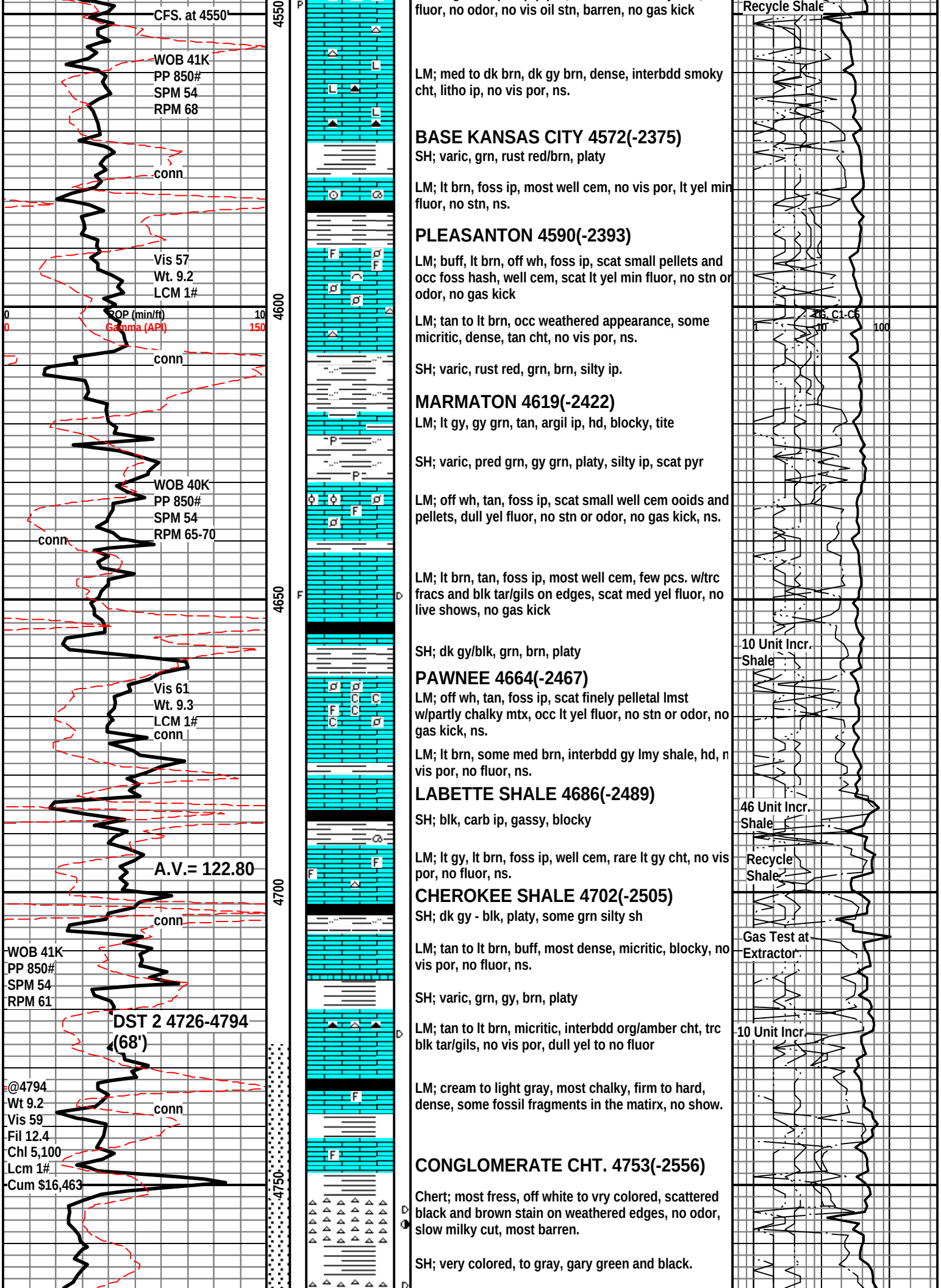
TG, C1-C5
1 10 100

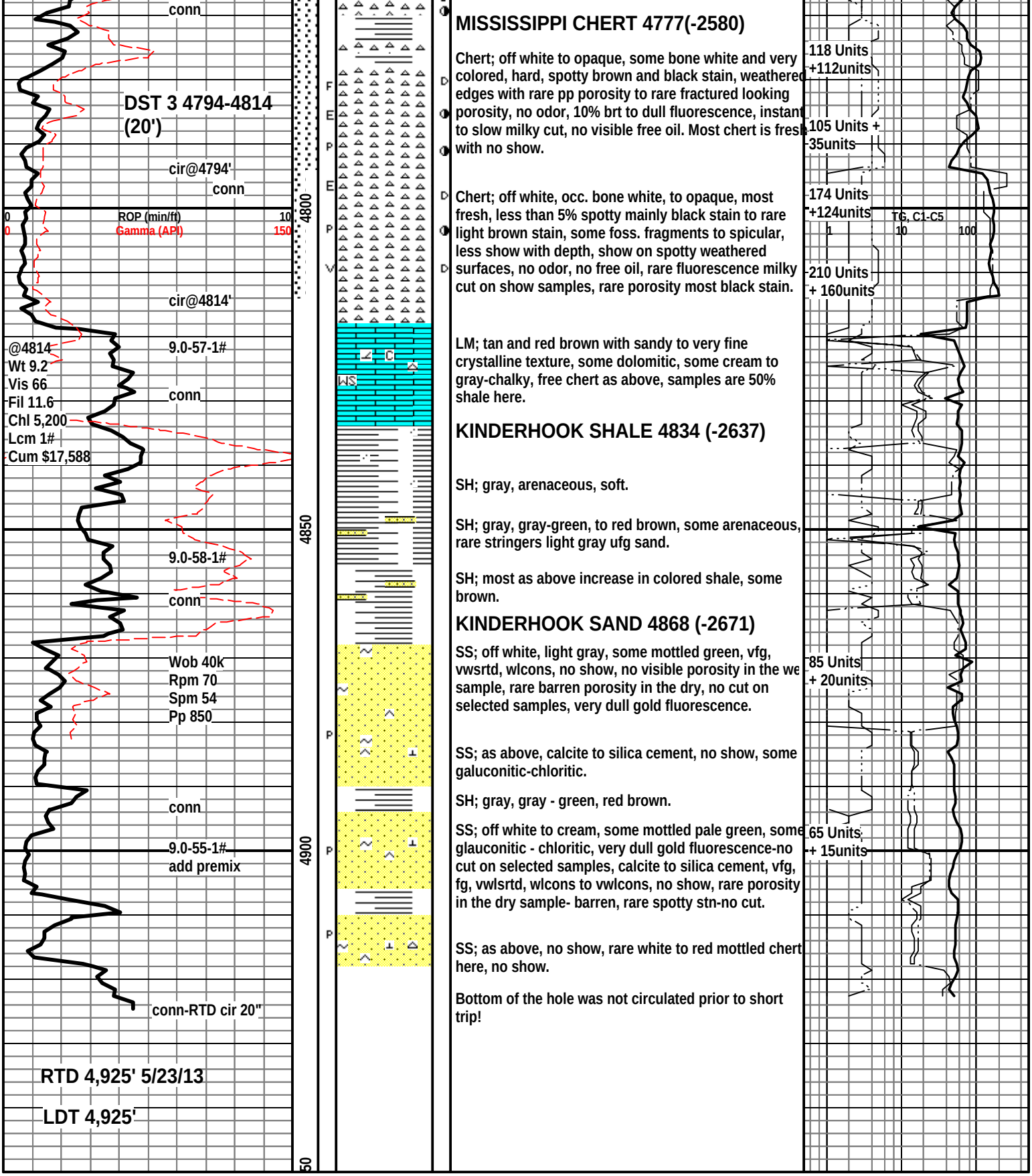
28 Unit Incr. Shale

Gas Test at Extractor


conn
WOB 40-41K
PP 865#
SPM 54
RPM 68
4150
conn
Vis 53
Wt. 9.3
LCM 1#
A.V.= 122.40
conn
0
ROP (min/ft)
10
0
Gamma (A
150
CFS. at 4203'
4200
Vis 55
Wt. 9.2
LCM 1#
conn
WOB 42K
PP 870#
SPM 54
RPM 72
4250
conn
Vis 56
Wt. 9.3
LCM 1#
conn
WOB 42K
PP 850#
SPM 54
RPM 85
4300
conn
SH; lt to med gy, firm, occ silty
SH; lt to med gy, firm, platy, silty w/interbdd sltst.
SH; med gy, silty ip, fiss to flakey
SH; med gy, fiss, smooth, rarely pyr
BROWN LMST. 4180(-1983)
LM; med to dk brn, dense, foss ip, tite
LANSING 'A' 4186(-1989)
LM; off wh, lt brn, foss, some oolitic lmst w/med brn spotted oil stn, few pcs bleeding oil/gas, faint odor, rextalized, med yel fluor, some barren por, fair cut, ve
thin zone
SH; med gy, grn, platy, occ foss
LANSING "B" 4212(-2015)
LM; off wh, lt gy brn, fxln, poor interxln por, most dense, no fluor, no stn or odor
LM; off wh, lt gy, med to occ cse xln, scat spar calc xtals, fair vug por, dull yel fluor, chalky mtx ip, no vis stn, no odor, no gas kick
LM; med brn, foss, hd, blocky
SH; med gy, grn, fiss, soft
LM; tan to off wh, buff, fxln to micritic, trc poor interxl
por, minor wh to off wh cht, no fluor, no stn or odor, ns.
LM; lt to med brn, occ foss, well cem, most dense, no vis stn, rarely cherty, tite
SH; lt to med gy, platy
LM; off wh, buff, highly foss - finely pelletal w/hash, fa interpart por, soft chalky mtx, interbdd cse xln lmst, dull yel min fluor only, no stn or odor, ns.
LANSING "G" POROSITY 4296(-2099)
LM; off wh, tan/lt brn, oolitic, v. gd oomoldic por, brittle ip, lt yel min fluor, no stn or odor, no gas kick
LM; tan to off wh, f to med xln, most dense, rarely foss no fluor, ns.
LM; off wh, cream, fxln, much soft chalk and chalky mtx, scat poor p-p por, dull yel to no fluor, no stn or
12 Unit Incr.
SHOW.
TG,C1-C5
1
10
100
8 Unit Incr.


Vis 61
Wt. 9.4+
LCM 1#
conn
4350
MudCo. Mud
Check at 4373'
Vis 53 Wt. 9.3
WL 11.6 Cl 5000
PH 10.5 LCM 1#
conn
WOB 42K
PP 855#
SPM 54
RPM 70
0
ROP (min/ft)
10
0
Gamma (API)
150
4400
CFS. at 4415'
Vis 50
Wt. 9.5
LCM 1#
A.V.= 122.48
conn
4450
DST #1
K.C. "J"
4434' - 4465'
CFS. at 4465'
MudCo. Mud
Check at 4474'
Vis 57 Wt. 9.0
WL 9.6 Cl 4100
conn
PH 9.5 LCM 2#
WOB 40K
PP 815#
SPM 54
RPM 65
4500
conn
CFS. at 4518'
Vis 54
Wt. 9.1
LCM 2#
conn
odor, ns.
SH; med gy, silty, platy
LM; med gy brn, foss ip, minor off wh/gy cht, no vis por, ns.
LANSING/K.C. "H" 4352(-2155)
LM; tan to med brn, oolitic, med to lrg. molds, gd oomoldic por, brittle ip, rare vug por, spotted lt/med yel min fluor, no stn or odor, no gas kick
LM; tan to buff, hd, cherty ip, tite
SH; med gy, grn, platy
LM; tan to buff, lt brn, finely pelletal, scat small ooids, most compact w/poor vis interpart por, lt yel min fluor, no stn or odor, no gas kick, ns.
LM; tan to lt brn, dense, interbdd org/amber/brn fresh cht, no vis por, no fluor, ns.
K.C. "I" ZONE 4403(-2206)
LM; off wh, buff, tan, finely pelletal/small ooids, minor chalky mtx, poor to fair vis interpart w/scat p-p por, dull yel fluor, no stn or odor, no gas kick, barren
LM; tan, off wh, finely pelletal/oolitic, most compact ooid clusters, fair interpart por, no stn or odor, no gas kick, ns.
LM; off wh, tan, buff, foss/fxln, much soft chalky mtx, poor interpart por, dull yel min fluor, no gas kick, ns.
SH; blk, gy, rust red - some varic
K.C. "J" DENNIS 4450-2253)
LM; tan to buff, med xln w/scat ooids, gd interxln w/oc small vug por, v. light brn even oil stn, fair/gd odor, ga bubbles w/SFO, most w/brite yel fluor, gd cut
DST #1: K.C. "J" Zone 4434' - 4465'
LM; lt brn, tan, fxln w/rare sucrosic text, hd, no vis por, scat gy/amber cht, tite
SH; grn, gy grn, lmy ip.
LM; med gy brn, gritty text, argil ip, firm
STARK SHALE 4488(-2291)
SH; blk, carb, thinly bdd, trc pyr
SWOPE 4494(-2297)
LM; med brn, hd, micritic, some gritty to sandy, no vis por, tite
LM; off wh, buff, lt gy, foss w/scat pellets and ooids, rare med xln, fair p-p/vug por, chalky mtx, fair odor/sl. sulfur odor, trc gas bubbles, spots of blk tarry residue, v. dull yel fluor, no F.O, no cut, most barren porosity
LM; tan to off wh, buff, fxln,some dense litho lmst, scat off wh cht, no fluor, ns.
SH; dk gy-blk, fiss
HERTHA 4542(-2345)
LM; tan to cream, buff, v. foss - finely pelletal w/hash, fair to gd interpart/p-p por, minor soft chalky mtx, n
TG, C1-C5
1
10
100
Gas Test
25 Unit Incr.
SHOW
Trip/B.U. gas
Recycle
8 Unit Incr.
Shale
5 Unit Incr.
10 Unit Incr.
Shale


CFS. at 4550'
WOB 41K
PP 850#
SPM 54
RPM 68
conn
Vis 57
Wt. 9.2
LCM 1#
0
ROP (min/ft)
10
0
Gamma (API)
150
conn
WOB 40K
PP 850#
SPM 54
RPM 65-70
conn
Vis 61
Wt. 9.3
LCM 1#
conn
A.V.= 122.80
conn
WOB 41K
PP 850#
SPM 54
RPM 61
DST 2 4726-4794
(68')
@4794
Wt 9.2
Vis 59
Fil 12.4
Chl 5,100
Lcm 1#
Cum $16,463
conn
4550
4600
4650
4700
4750
fluor, no odor, no vis oil stn, barren, no gas kick
LM; med to dk brn, dk gy brn, dense, interbdd smoky cht, litho ip, no vis por, ns.
BASE KANSAS CITY 4572(-2375)
SH; varic, grn, rust red/brn, platy
LM; lt brn, foss ip, most well cem, no vis por, lt yel min fluor, no stn, ns.
PLEASANTON 4590(-2393)
LM; buff, lt brn, off wh, foss ip, scat small pellets and occ foss hash, well cem, scat lt yel min fluor, no stn or odor, no gas kick
LM; tan to lt brn, occ weathered appearance, some micritic, dense, tan cht, no vis por, ns.
SH; varic, rust red, grn, brn, silty ip.
MARMATON 4619(-2422)
LM; lt gy, gy grn, tan, argil ip, hd, blocky, tite
SH; varic, pred grn, gy grn, platy, silty ip, scat pyr
LM; off wh, tan, foss ip, scat small well cem ooids and pellets, dull yel fluor, no stn or odor, no gas kick, ns.
LM; lt brn, tan, foss ip, most well cem, few pcs. w/trc fracs and blk tar/gils on edges, scat med yel fluor, no live shows, no gas kick
SH; dk gy/blk, grn, brn, platy
PAWNEE 4664(-2467)
LM; off wh, tan, foss ip, scat finely pelletal lmst w/partly chalky mtx, occ lt yel fluor, no stn or odor, no gas kick, ns.
LM; lt brn, some med brn, interbdd gy lmy shale, hd, n vis por, no fluor, ns.
LABETTE SHALE 4686(-2489)
SH; blk, carb ip, gassy, blocky
LM; lt gy, lt brn, foss ip, well cem, rare lt gy cht, no vis por, no fluor, ns.
CHEROKEE SHALE 4702(-2505)
SH; dk gy - blk, platy, some grn silty sh
LM; tan to lt brn, buff, most dense, micritic, blocky, no vis por, no fluor, ns.
SH; varic, grn, gy, brn, platy
LM; tan to lt brn, micritic, interbdd org/amber cht, trc blk tar/gils, no vis por, dull yel to no fluor
LM; cream to light gray, most chalky, firm to hard, dense, some fossil fragments in the matirx, no show.
CONGLOMERATE CHT. 4753(-2556)
Chert; most fress, off white to vry colored, scattered black and brown stain on weathered edges, no odor, slow milky cut, most barren.
SH; very colored, to gray, gary green and black.
Recycle Shale
TG, C1-C5
1
10
100
10 Unit Incr.
Shale
46 Unit Incr.
Shale
Recycle
Shale
Gas Test at
Extractor
10 Unit Incr.



MISSISSIPPI CHERT 4777(-2580)

Chert; off white to opaque, some bone white and very colored, hard, spotty brown and black stain, weathered edges with rare pp porosity to rare fractured looking porosity, no odor, 10% brt to dull fluorescence, instant to slow milky cut, no visible free oil. Most chert is fresh with no show.

Chert; off white, occ. bone white, to opaque, most fresh, less than 5% spotty mainly black stain to rare light brown stain, some foss. fragments to spicular, less show with depth, show on spotty weathered surfaces, no odor, no free oil, rare fluorescence milky cut on show samples, rare porosity most black stain.

LM; tan and red brown with sandy to very fine crystalline texture, some dolomitic, some cream to gray-chalky, free chert as above, samples are 50% shale here.

KINDERHOOK SHALE 4834 (-2637)

SH; gray, arenaceous, soft.

SH; gray, gray-green, to red brown, some arenaceous, rare stringers light gray ufg sand.

SH; most as above increase in colored shale, some brown.

KINDERHOOK SAND 4868 (-2671)

SS; off white, light gray, some mottled green, vfg, vwsrtd, wlcons, no show, no visible porosity in the we sample, rare barren porosity in the dry, no cut on selected samples, very dull gold fluorescence.

SS; as above, calcite to silica cement, no show, some galuconitic-chloritic.

SH; gray, gray - green, red brown.

SS; off white to cream, some mottled pale green, some glauconitic - chloritic, very dull gold fluorescence-no cut on selected samples, calcite to silica cement, vfg, fg, vwlsrtd, wlcons to vwlcons, no show, rare porosity in the dry sample- barren, rare spotty stn-no cut.

SS; as above, no show, rare white to red mottled chert here, no show.

Bottom of the hole was not circulated prior to short trip!