CORRECTION #1

Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1256028

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33036
Name: Strata Exploration, Inc.
Address 1: PO BOX 401
Address 2:
City: FAIRFIELD State: IL Zip: 62837 + 0401
Contact Person: John R Kinney
Phone: (618) 842-2610
CONTRACTOR: License # 5142
Name: Sterling Drilling Company
Wellsite Geologist: Jon Christensen
Purchaser:

Designate Type of Completion:
☑ New Well ☐ Re-Entry ☐ Workover

☐ Oil ☐ WSW ☐ SWD ☐ SIOW
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
☑ OG ☐ GSW ☐ Temp. Abd.
☐ CM *(Coal Bed Methane)*
☐ Cathodic ☐ Other *(Core, Expl., etc.)*:

If Workover/Re-entry: Old Well Info as follows:
Operator:
Well Name:
Original Comp. Date: Original Total Depth:

☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

07/06/2012 Spud Date or Recompletion Date
07/16/2012 Date Reached TD
09/12/2012 Completion Date or Recompletion Date

API No. 15 - 15-047-21610-00-00
Spot Description:
NE - SW - SE - SE Sec. 36 Twp. 26 S. R. 20 ☐ East ☑ West
460 Feet from ☐ North / ☑ South Line of Section
703 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Edwards
Lease Name: Miller Trust Well #: 1-36
Field Name:
Producing Formation: Lansing
Elevation: Ground: 2260 Kelly Bushing: 2264
Total Vertical Depth: 4916 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 523 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: w/ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 6600 ppm Fluid volume: 900 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Roberts Recources
Lease Name: MARY License #: 32781
Quarter NW Sec. 16 Twp. 29 S. R. 18 ☐ East ☑ West
County: Kiowa Permit #: D28396

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

☐ **Confidentiality Requested**
Date:
☐ **Confidential Release Date:**
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 06/25/2015

CORRECTION #1
Page Two

1256028

Operator Name: Strata Exploration, Inc. Lease Name: Miller Trust Well #: 1-36

Sec. 36 Twp. 26 S. R. 20 ☐ East ☑ West County: Edwards

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Microlog
Halliburton Induction
Comp Density Neutron

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
**see geo report	**see geo report	**see geo report

CASING RECORD ☑ New ☐ Used
Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	523	see cement ticket	350	see cement ticket
Longstring	7.875	5.5	15.5	4915	see cement ticket	250	see cement ticket

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone	-			
	-			

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth
3	Miss Chert	18bbl 15% MCA-Fe, 18bbl 2% KCL wtr	4808-4820
3	Lansing "A"	250gal 15% MCA-Fe, 18bbl 2% KCL wtr	4192-4200

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:
	2.375	4194	4162	☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR.

Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:
☐ Vented ☑ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)* _____

PRODUCTION INTERVAL:
4192'-4200'

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

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 Coordinates:	**Same as Above**
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'**

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(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) Cl 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), Cl 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).

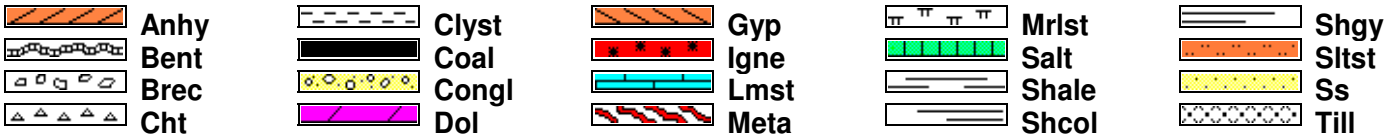
Pipe Strap at 4083'(DST #1): Strap 0.68' Short to the Board, no correction made to the Board.

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.

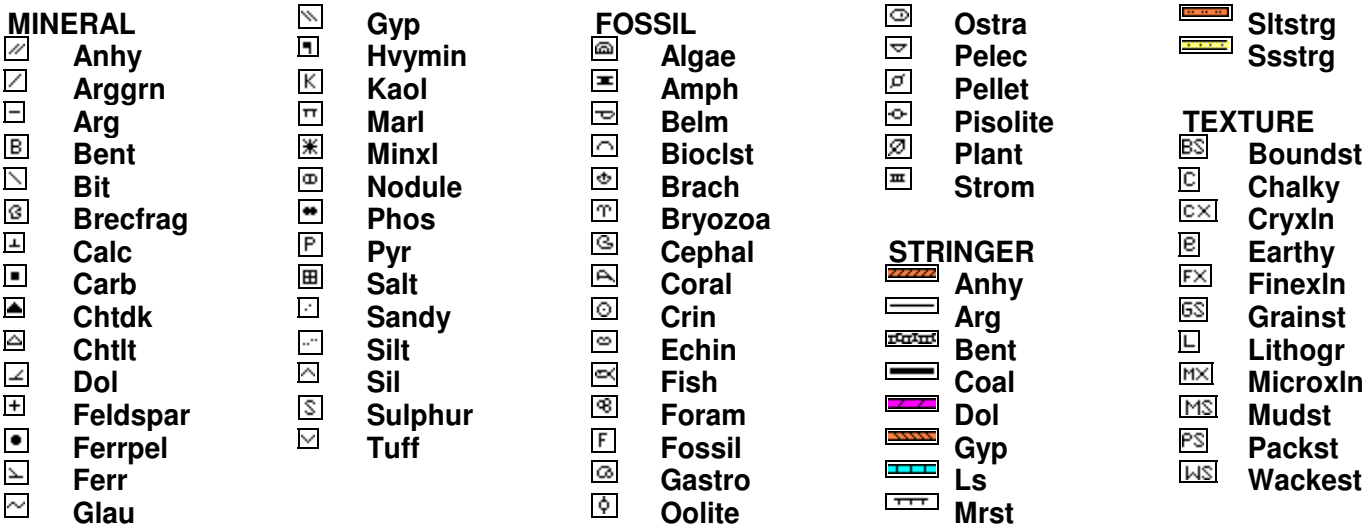
LOG TOPS: Chase 2483(-219), Stotler Lmst. 3430(-1166), Howard 3626(-1362), Heebner Shale 4046(-1782), Toronto 4066(-1802), Brown Lmst. 4177(-1913), Lansing "A" 4184(-1920), Lansing/KC. "H" 4362(-2098), Stark Shale 4508(-2245), Base KC. 4590(-2326), Marmaton 4630(-2366), Pawnee 4680(-2416), Cherokee Shale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



ACCESSORIES



OTHER SYMBOLS

POROSITY
- E Earthy
- Fenest
- F Fracture
- I Inter
- M Moldic
- O Organic
- P Pinpoint
- V Vuggy

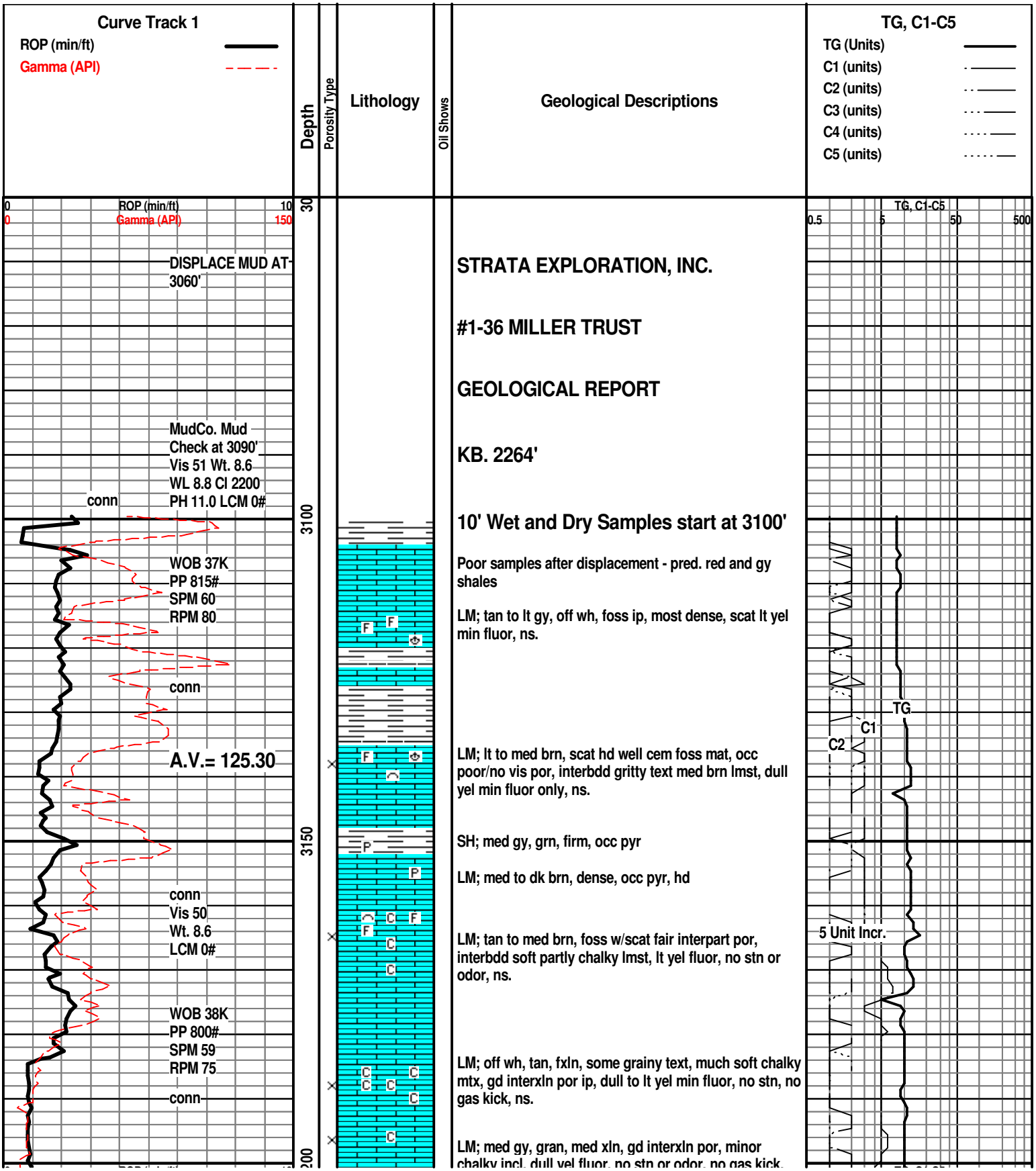
SORTING
- W Well
- M Moderate
- P Poor

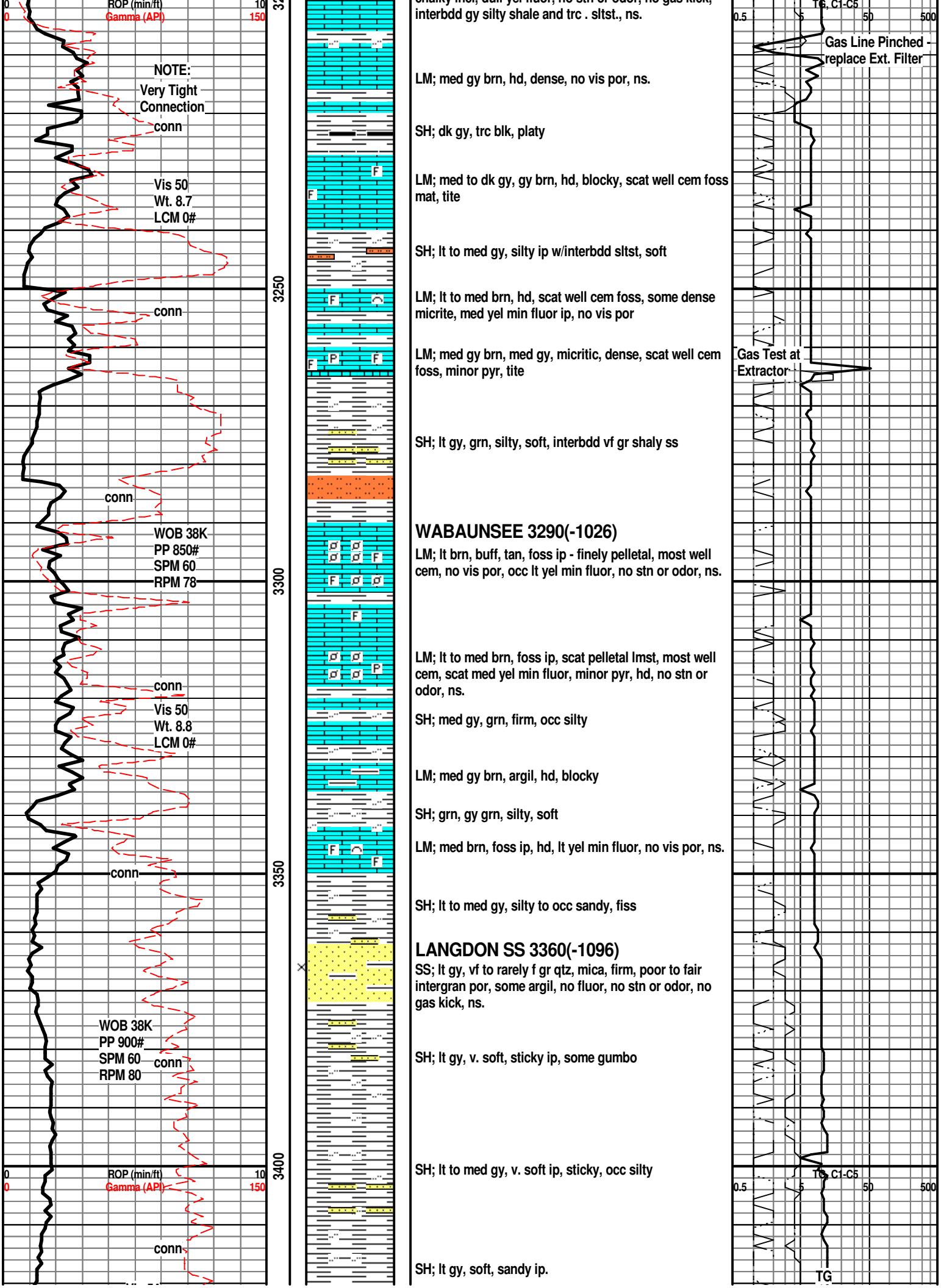
ROUNDING
- R Rounded
- r Subrnd
- a Subang
- A Angular

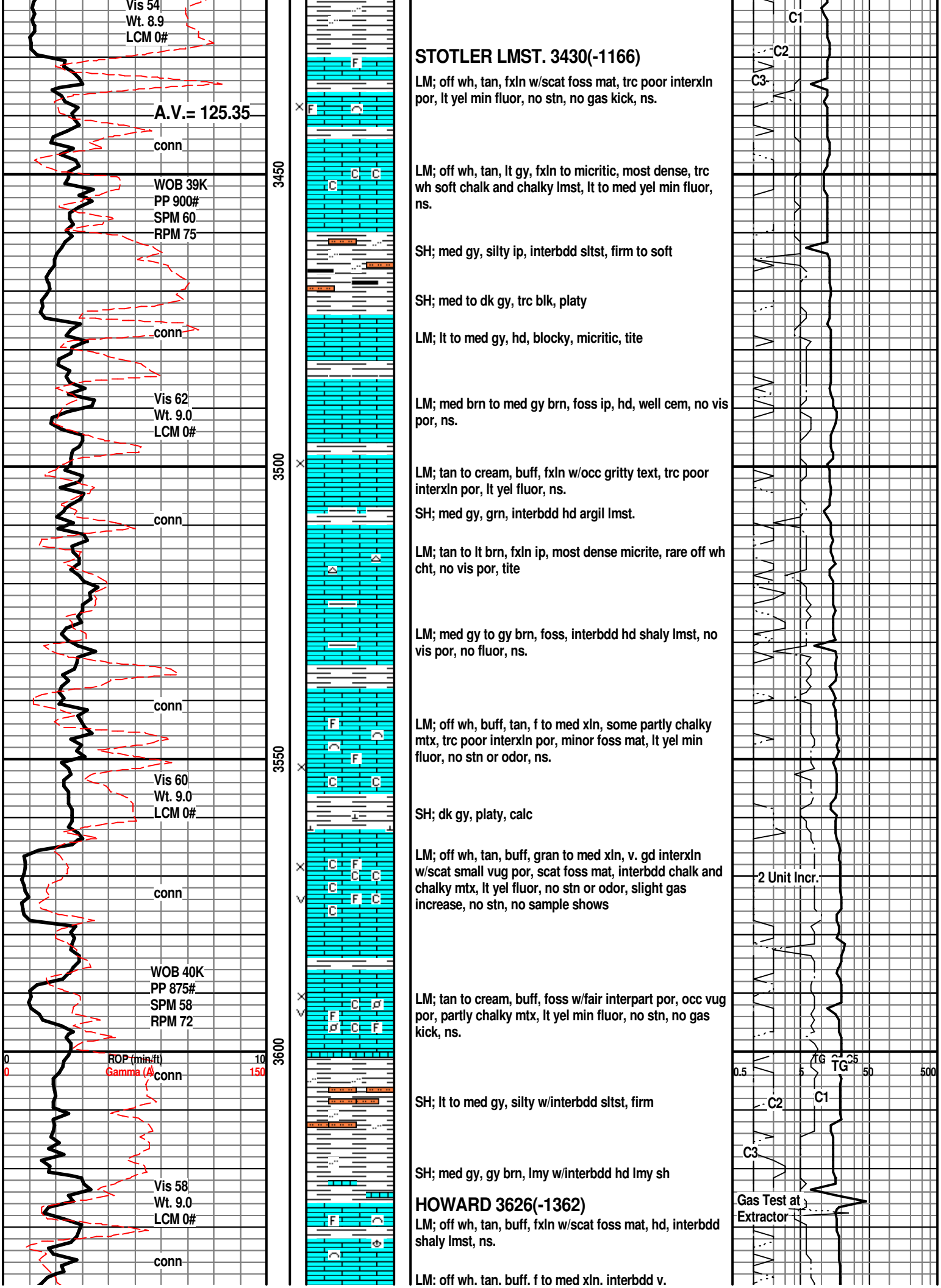
OIL SHOW
- Even
- Spotted
- Ques
- D Dead

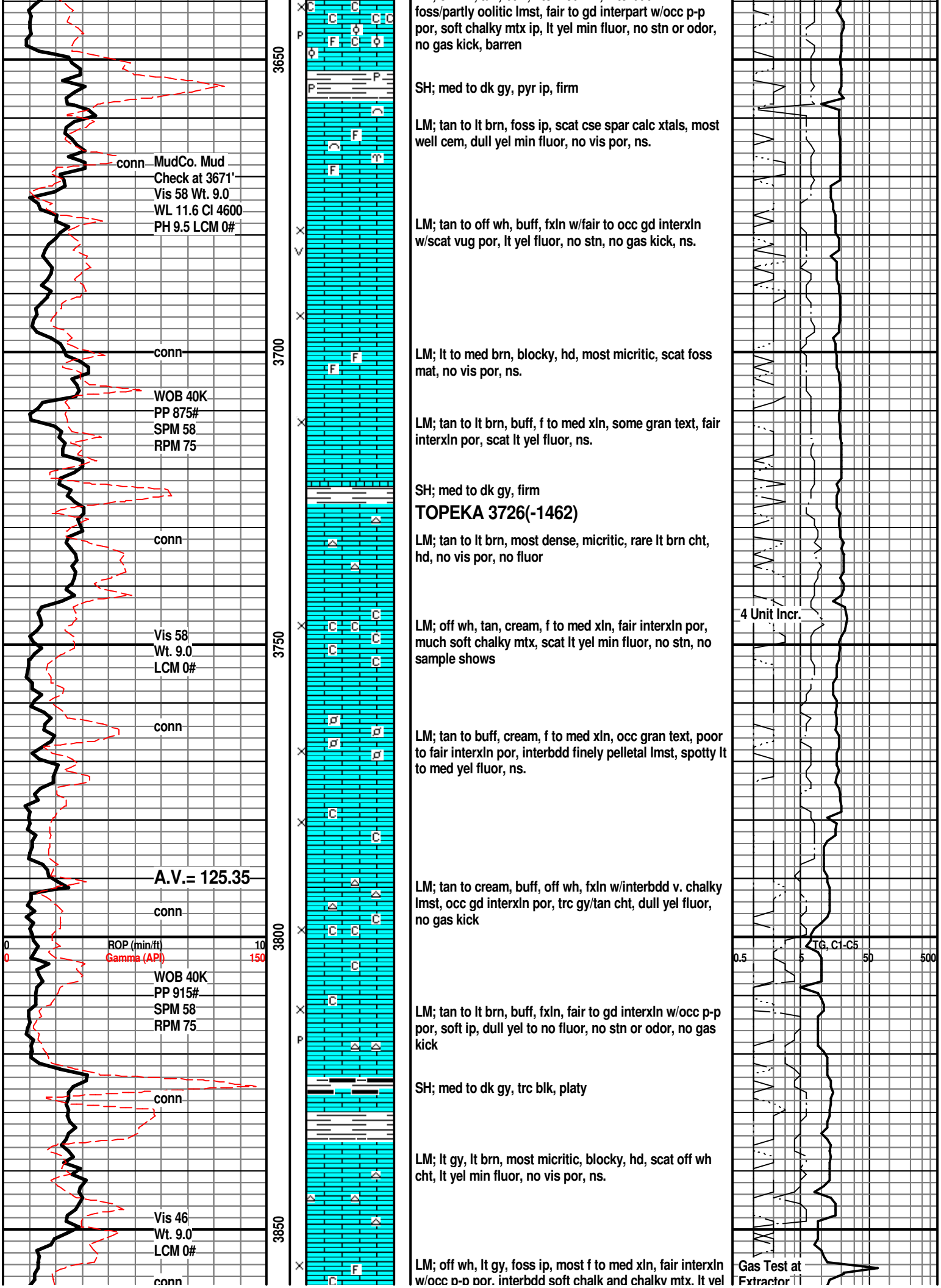
INTERVAL
- Core
- Dst

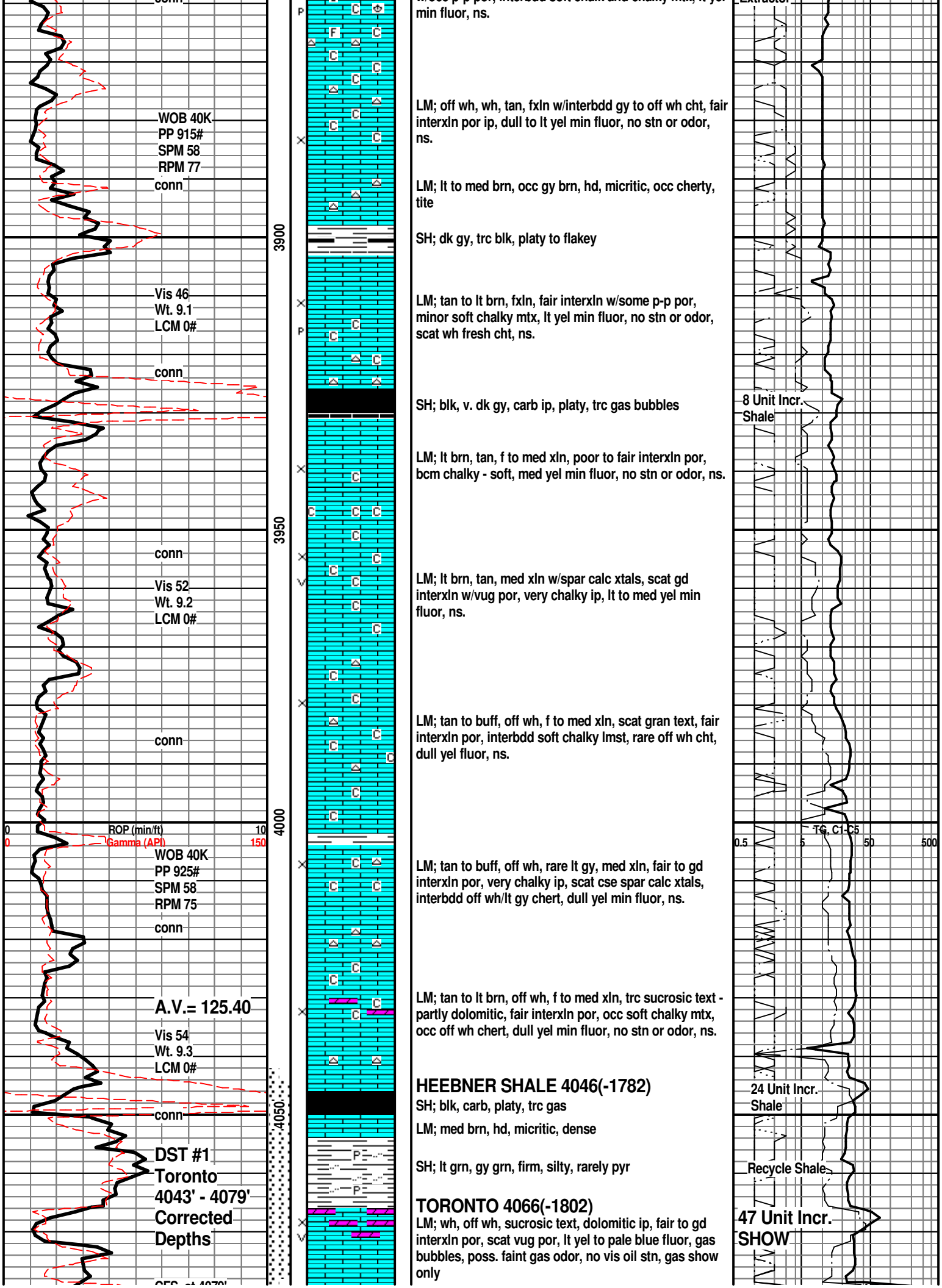
EVENT
- Rft
- Sidewall

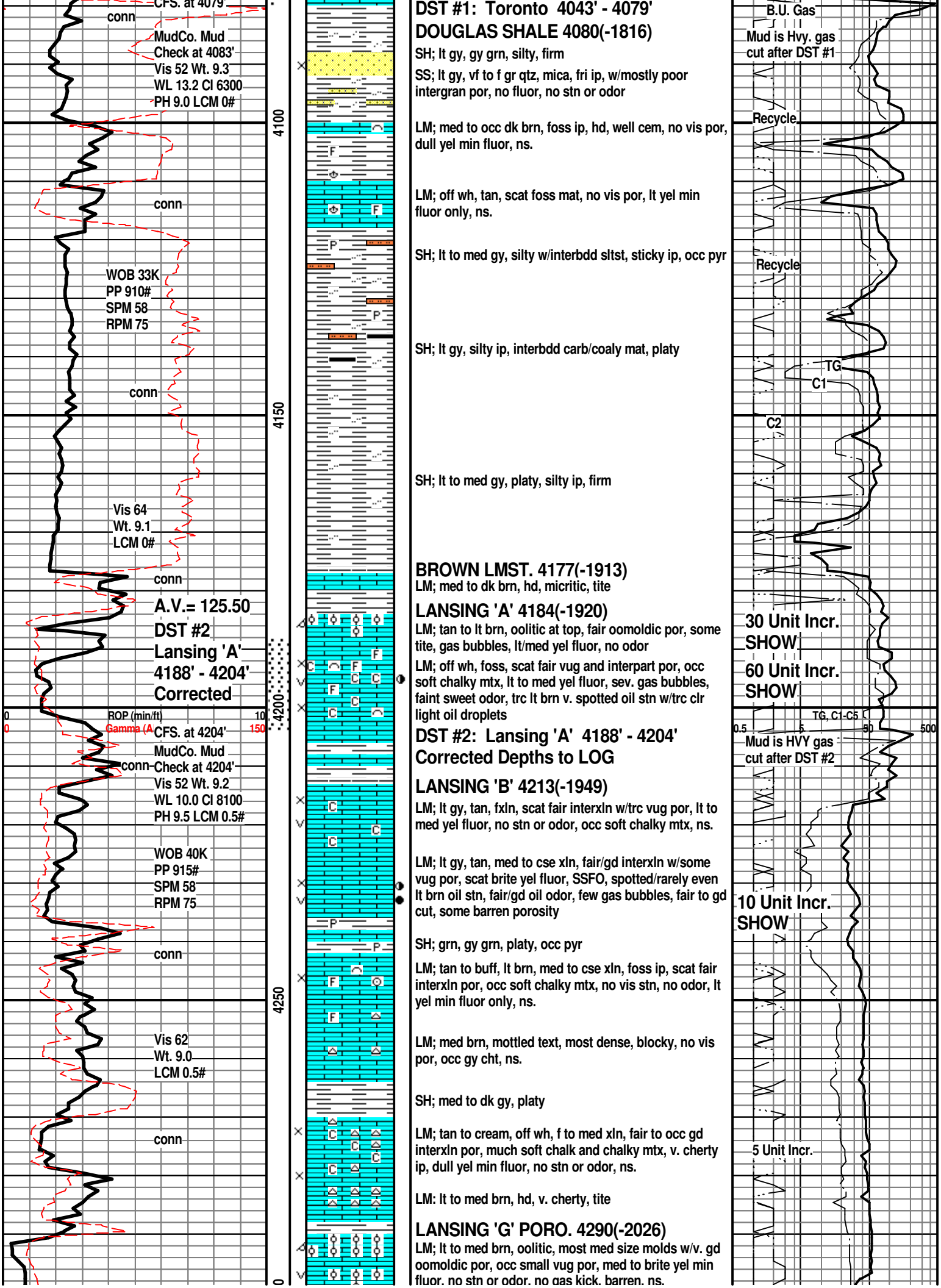


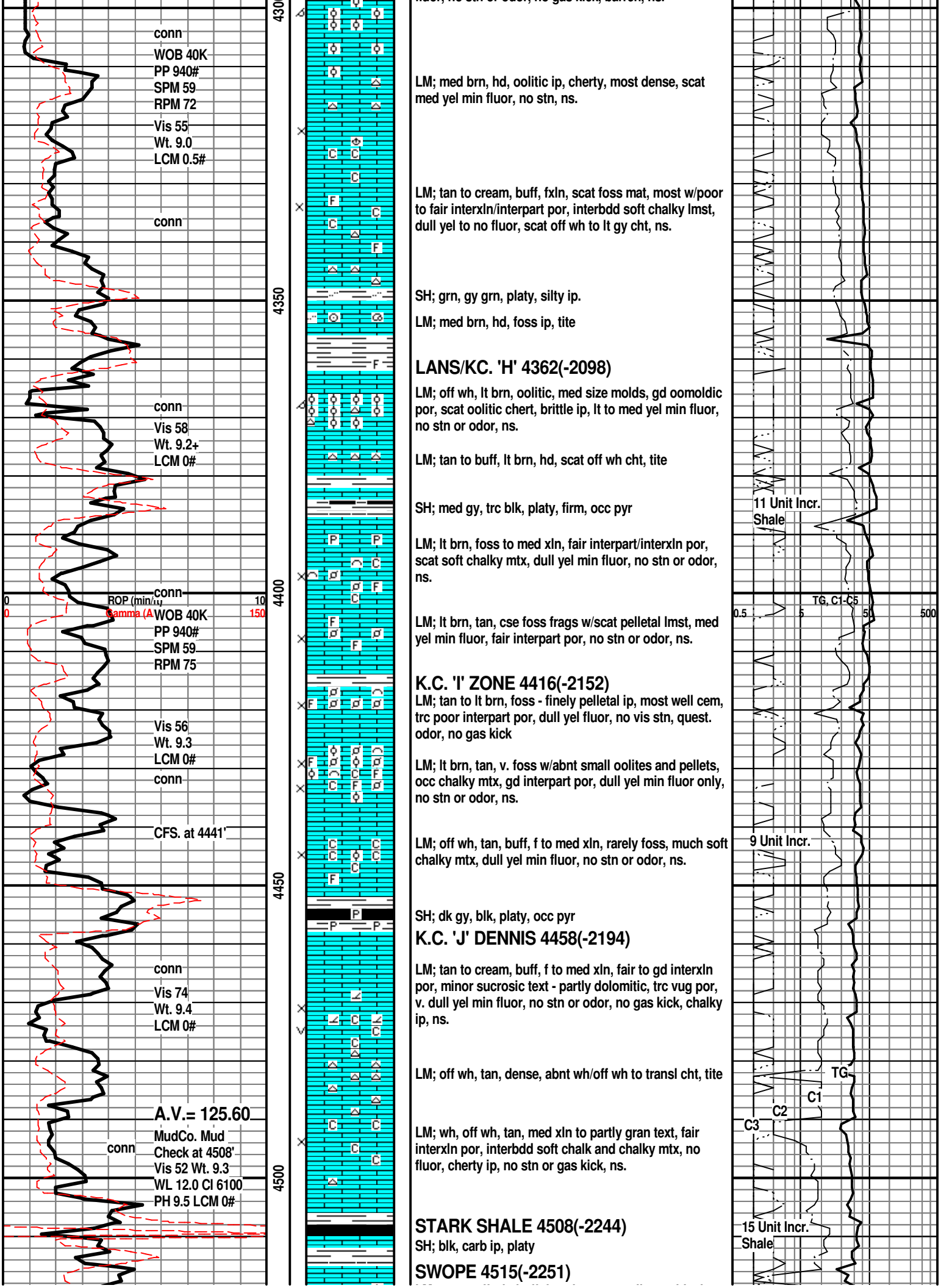

ROP (min/ft)
0
10
Gamma (API)
0
150
NOTE:
Very Tight
Connection
conn
Vis 50
Wt. 8.7
LCM 0#
conn
conn
WOB 38K
PP 850#
SPM 60
RPM 78
conn
Vis 50
Wt. 8.8
LCM 0#
conn
WOB 38K
PP 900#
SPM 60
RPM 80
conn
conn
3250
3300
3350
3400
F
P
interbdd gy silty shale and trc . sltst., ns.
LM; med gy brn, hd, dense, no 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.
TG, C1-C5
0.5
5
50
500
Gas Line Pinched - replace Ext. Filter
Gas Test at Extractor
TG

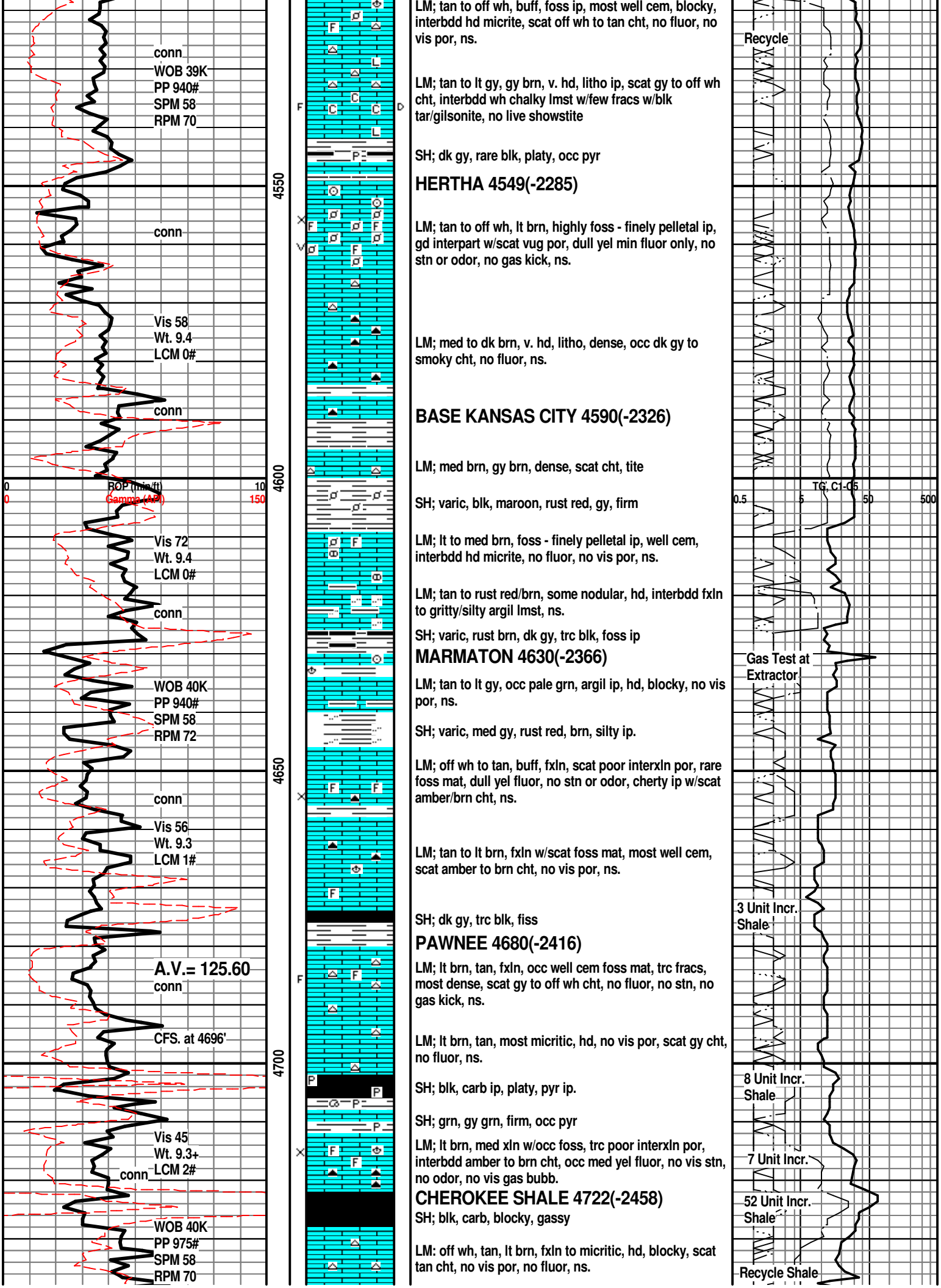

Vis 54
Wt. 8.9
LCM 0#
A.V.= 125.35
conn
WOB 39K
PP 900#
SPM 60
RPM 75
conn
Vis 62
Wt. 9.0
LCM 0#
conn
Vis 60
Wt. 9.0
LCM 0#
conn
WOB 40K
PP 875#
SPM 58
RPM 72
ROP (min/ft)
Gamma (A
conn
Vis 58
Wt. 9.0
LCM 0#
conn
3450
3500
3550
3600
STOTLER LMST. 3430(-1166)
LM; off wh, tan, fxln w/scat foss mat, trc 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.
C1
C2
C3
2 Unit Incr.
TG
0.5
5
50
500
Gas Test at Extractor

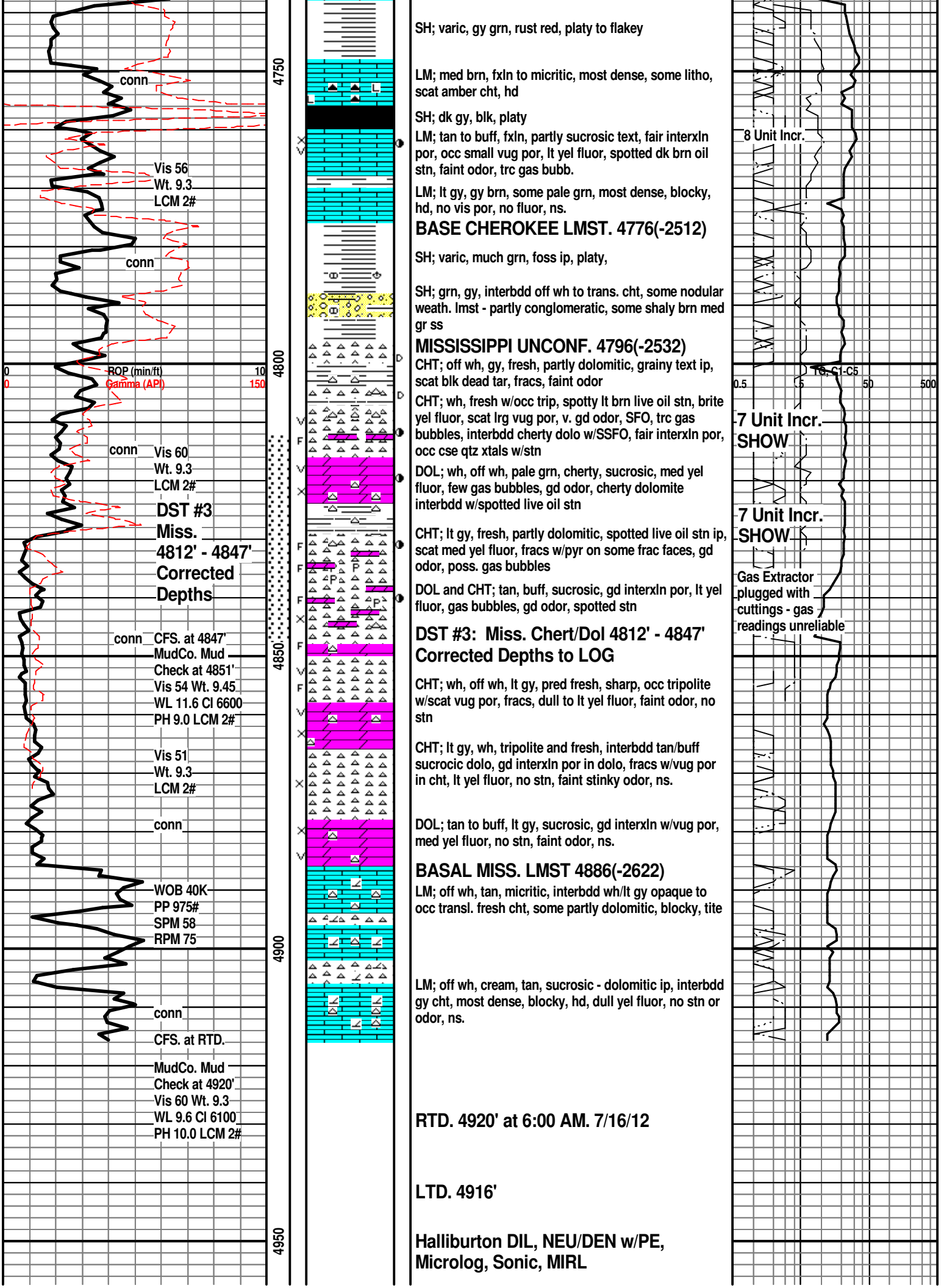

conn
MudCo. Mud
Check at 3671'
Vis 58 Wt. 9.0
WL 11.6 Cl 4600
PH 9.5 LCM 0#
conn
WOB 40K
PP 875#
SPM 58
RPM 75
conn
Vis 58
Wt. 9.0
LCM 0#
conn
A.V.= 125.35
conn
0
ROP (min/ft)
10
0
Gamma (API)
150
WOB 40K
PP 915#
SPM 58
RPM 75
conn
Vis 46
Wt. 9.0
LCM 0#
conn
3650
3700
3750
3800
3850
foss/partly oolitic lmst, fair to gd interpart w/occ p-p por, soft chalky mtx 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 mtx, 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 chalky mtx, lt yel
4 Unit Incr.
TG, C1-C5
0.5
5
50
500
Gas Test at
Extractor

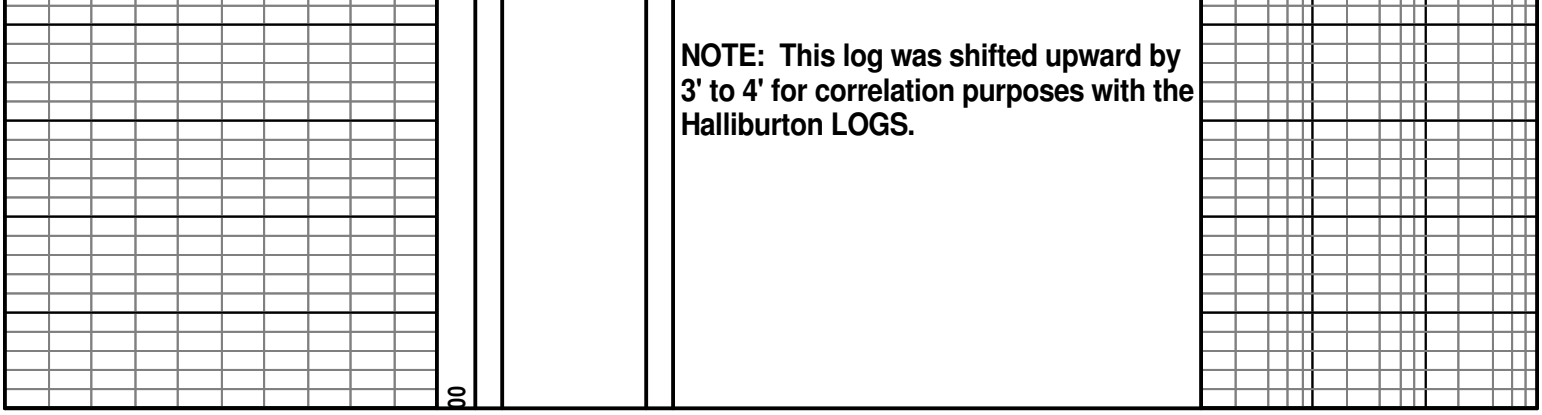

WOB 40K
PP 915#
SPM 58
RPM 77
conn
Vis 46
Wt. 9.1
LCM 0#
conn
conn
Vis 52
Wt. 9.2
LCM 0#
conn
0
ROP (min/ft)
10
0
Gamma (API)
150
WOB 40K
PP 925#
SPM 58
RPM 75
conn
A.V.= 125.40
Vis 54
Wt. 9.3
LCM 0#
conn
DST #1
Toronto
4043' - 4079'
Corrected
Depths
3900
3950
4000
4050
LM; off wh, wh, tan, fxln w/interbdd 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
8 Unit Incr.
Shale
TG, C1-C5
0.5
5
50
500
24 Unit Incr.
Shale
Recycle Shale
47 Unit Incr.
SHOW


CFS. at 4079
conn
MudCo. Mud
Check at 4083'
Vis 52 Wt. 9.3
WL 13.2 Cl 6300
PH 9.0 LCM 0#
conn
WOB 33K
PP 910#
SPM 58
RPM 75
conn
Vis 64
Wt. 9.1
LCM 0#
conn
A.V.= 125.50
DST #2
Lansing 'A'
4188' - 4204'
Corrected
ROP (min/ft)
Gamma (A
CFS. at 4204'
conn
MudCo. Mud
Check at 4204'
Vis 52 Wt. 9.2
WL 10.0 Cl 8100
PH 9.5 LCM 0.5#
WOB 40K
PP 915#
SPM 58
RPM 75
conn
Vis 62
Wt. 9.0
LCM 0.5#
conn
4100
4150
4200
4250
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.
B.U. Gas
Mud is Hvy. gas
cut after DST #1
Recycle
Recycle
TG
C1
C2
30 Unit Incr.
SHOW
60 Unit Incr.
SHOW
TG, C1-C5
0.5
5
50
500
Mud is HVY gas
cut after DST #2
10 Unit Incr.
SHOW
5 Unit Incr.


conn
WOB 40K
PP 940#
SPM 59
RPM 72
Vis 55
Wt. 9.0
LCM 0.5#
conn
conn
Vis 58
Wt. 9.2+
LCM 0#
conn
WOB 40K
PP 940#
SPM 59
RPM 75
Vis 56
Wt. 9.3
LCM 0#
conn
CFS. at 4441'
conn
Vis 74
Wt. 9.4
LCM 0#
A.V.= 125.60
conn
MudCo. Mud
Check at 4508'
Vis 52 Wt. 9.3
WL 12.0 Cl 6100
PH 9.5 LCM 0#
4300
4350
4400
4450
4500
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)
11 Unit Incr.
Shale
9 Unit Incr.
15 Unit Incr.
Shale
TG, C1-C5
0.5
5
50
500
TG
C1
C2
C3


conn
WOB 39K
PP 940#
SPM 58
RPM 70
conn
Vis 58
Wt. 9.4
LCM 0#
conn
0
ROP (min/ft)
10
0
Gamma (API)
150
Vis 72
Wt. 9.4
LCM 0#
conn
WOB 40K
PP 940#
SPM 58
RPM 72
conn
Vis 56
Wt. 9.3
LCM 1#
A.V.= 125.60
conn
CFS. at 4696'
Vis 45
Wt. 9.3+
LCM 2#
conn
WOB 40K
PP 975#
SPM 58
RPM 70
4550
4600
4650
4700
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 fracs 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 fracs, 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.
Recycle
TG, C1-C5
0.5
5
50
500
Gas Test at Extractor
3 Unit Incr. Shale
8 Unit Incr. Shale
7 Unit Incr.
52 Unit Incr. Shale
Recycle Shale


ROP (min/ft)
0
10
Gamma (API)
0
150
4750
4800
4850
4900
4950
conn
Vis 56
Wt. 9.3
LCM 2#
conn
conn
Vis 60
Wt. 9.3
LCM 2#
DST #3
Miss.
4812' - 4847'
Corrected
Depths
conn
CFS. at 4847'
MudCo. Mud
Check at 4851'
Vis 54 Wt. 9.45
WL 11.6 Cl 6600
PH 9.0 LCM 2#
Vis 51
Wt. 9.3
LCM 2#
conn
WOB 40K
PP 975#
SPM 58
RPM 75
conn
CFS. at RTD.
MudCo. Mud
Check at 4920'
Vis 60 Wt. 9.3
WL 9.6 Cl 6100
PH 10.0 LCM 2#
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 sucrocic 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
8 Unit Incr.
TG, C1-C5
0.5
5
50
500
7 Unit Incr.
SHOW
7 Unit Incr.
SHOW
Gas Extractor
plugged with
cuttings - gas
readings unreliable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NOTE: This log was shifted upward by 3' to 4' for correlation purposes with the Halliburton LOGS.

Summary of Changes

Lease Name and Number: Miller Trust 1-36

API/Permit #: 15-047-21610-00-00

Doc ID: 1256028

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved By	Deanna Garrison	NAOMI JAMES
Approved Date	11/14/2012	06/25/2015
Fracturing Question 1		No
LocationInfoLink	https://solar.kgs.ku.edu/kcc/detail/locationInformation.cfm?section=36&t	https://kolar.kgs.ku.edu/kcc/detail/locationInformation.cfm?section=36&t
Save Link	../../kcc/detail/operatorEditDetail.cfm?docID=1100787	../../kcc/detail/operatorEditDetail.cfm?docID=1256028
TopsDatum1		**see geo report
TopsDepth1		**see geo report
Tubing Size	2 3/8"	2.375

Summary of Attachments

Lease Name and Number: Miller Trust 1-36

API: 15-047-21610-00-00

Doc ID: 1256028

Correction Number: 1

Attachment Name

Geo Report