KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1097828

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33856
Name: White Exploration, Inc.
Address 1: 1635 N. Waterfront Parkway
Address 2: Suite 100
City: WICHITA State: KS Zip: 67206 + __ __ __ __
Contact Person: Kenneth S. White
Phone: (316) 682-6300
CONTRACTOR: License # 5123
Name: Pickrell Drilling Company, Inc.
Wellsite Geologist: Tom Williams
Purchaser: MV Purchasing, LLC

Designate Type of Completion:

- [x] New Well
- [ ] Re-Entry
- [ ] Workover

- [x] 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
- [ ] Conv. to GSW
- [ ] Plug Back: Plug Back Total Depth
- [ ] Commingled Permit #:
- [ ] Dual Completion Permit #:
- [ ] SWD Permit #:
- [ ] ENHR Permit #:
- [ ] GSW Permit #:

09/28/2012	10/07/2012	1/1/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-007-23951-00-00
Spot Description:
SE - NW - NE - NW Sec. 1 Twp. 31 S. R. 12 [ ] East [x] West
475 Feet from [x] North / [ ] South Line of Section
1916 Feet from [ ] East / [x] West Line of Section
Footages Calculated from Nearest Outside Section Corner:
[ ] NE [x] NW [ ] SE [ ] SW
County: Barber
Lease Name: Chain Ranch 'B' Well #: 1
Field Name:
Producing Formation: Mississippi
Elevation: Ground: 1645 Kelly Bushing: 1655
Total Depth: 4765 Plug Back Total Depth: 4728
Amount of Surface Pipe Set and Cemented at: 307 Feet
Multiple Stage Cementing Collar Used? [ ] Yes [x] 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: 44000 ppm Fluid volume: 960 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: BEMCO LLC
Lease Name: Cole License #: 32613
Quarter NW Sec. 25 Twp. 32 S. R. 12 [ ] East [x] West
County: Barber Permit #: D19886

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

- [ ] Letter of Confidentiality Received
  Date:
- [ ] Confidential Release Date:
- [x] Wireline Log Received
- [x] Geologist Report Received
- [ ] UIC Distribution

ALT [x] I [ ] II [ ] III Approved by: Deanna Garrison Date: 03/18/2013

Side Two

[redacted]

1097828

Operator Name: White Exploration, Inc. Lease Name: Chain Ranch 'B' Well #: 1

Sec. 1 Twp. 31 S. R. 12 ☐ East ☑ West County: Barber

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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
Electric Log Submitted Electronically ☑ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:
Attached

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

Name	Top	Datum
Attached	Attached	Attached

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	24	307	60/40 Poz Mix	220	2% gel, 3% CC
Production	12.25	5.5	15.5	4749	See attached	225	See attached

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	-			
	-			

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
	4315 - 4329	See attached	

TUBING RECORD: Size: 2.875 Set At: 4380 Packer At:

Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 1/1/2013

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	50	0	100		

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:
4315 - 4329

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

Form	ACO1 - Well Completion
Operator	White Exploration, Inc.
Well Name	Chain Ranch 'B' 1
Doc ID	1097828

All Electric Logs Run

Compensated Density Neutron
Dual Induction
Micro
Sonic

Form	ACO1 - Well Completion
Operator	White Exploration, Inc.
Well Name	Chain Ranch 'B' 1
Doc ID	1097828

Tops

Name	Top	Datum
Heebner	3560	-1905
Brown Lime	3765	-2110
Stark Shale	4114	-2459
Mississippi	4312	-2657
Kinderhook Shale	4387	-2732
Viola	4564	-2909
Simpson Shale	4651	-2996
Simpson Sand	4664	-3009

ALLIED CEMENTING CO., LLC. 038080

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Medicine Lodge

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
9-29-12	1	31s	12w		12:00AM	3:50	4:20

LEASE	WELL #	LOCATION	COUNTY	STATE
Chain Ranch	B-1	281 & 99 Springs, East	Barber	Ks
OLD OR NEW (Circle one)		Light		

CONTRACTOR Pickrell
TYPE OF JOB Surface
HOLE SIZE 12¼ T.D. 309
CASING SIZE 8 5/8 DEPTH 307.46
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT 20
CEMENT LEFT IN CSG. 20
PERFS.
DISPLACEMENT 18 4/4

OWNER White Exploration

1.01 7.3

CEMENT
AMOUNT ORDERED 220sx 60:40:2 3%gel+ 3%CC

EQUIPMENT

PUMP TRUCK CEMENTER Ben Grilley
#360-265 HELPER Troy Lenz / Dalid Felio
BULK TRUCK
#356-290 DRIVER Brandon Boor
BULK TRUCK
DRIVER

REMARKS:
See Cement Log

COMMON A	132	@ 17.90	2362.80
POZMIX	88	@ 9.35	822.80
GEL	4	@ 23.40	93.60
CHLORIDE	7	@ 64.00	448.00
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	236.50	@ 2.48	586.52
MILEAGE	49.50	2.60	128.70
		TOTAL	$4,442.42

SERVICE

DEPTH OF JOB			309'
PUMP TRUCK CHARGE			1512.25
EXTRA FOOTAGE		@	
MILEAGE	5	@ 7.70	38.50
MANIFOLD		@	
Light Veh.	5	@ 4.40	22.00
		@	
		TOTAL	1572.75

CHARGE TO: White Exploration
STREET
CITY STATE ZIP

8 5/8 PLUG & FLOAT EQUIPMENT

		@	
		@	
		@	
		@	
		@	
		TOTAL	

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any)	272.08
TOTAL CHARGES	$6,015.17
DISCOUNT 35%	2105.30 IF PAID IN 30 DAYS
	$3909.86 Net

PRINTED NAME X Carl O Jessop

SIGNATURE X

ALLIED OIL & GAS SERVICES, LLC 053927

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Medicine Lodge KS

DATE 10/02/12	SEC. 1	TWP. 31S	RANGE 12W	CALLED OUT	ON LOCATION	JOB START	JOB FINISH 400 PM
LEASE Chain Ranch	WELL# B-1		LOCATION 281 & 99 Springs Rd, 1st Right, ~~on~~ right into			COUNTY Barber	STATE KS
OLD OR (NEW) (Circle one)							

CONTRACTOR Pickrell
TYPE OF JOB Production
HOLE SIZE 7⅞ T.D. 4765
CASING SIZE 5½ DEPTH 4764
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX 1500 MINIMUM
MEAS. LINE SHOE JOINT 21
CEMENT LEFT IN CSG. 21
PERFS.
DISPLACEMENT 114 BBLs fresh H₂O

OWNER White Exploration 1.02 7.3

EQUIPMENT

PUMP TRUCK #558/555 CEMENTER Jason Thimesch
HELPER Darren Franklin
BULK TRUCK #356/290 DRIVER Branden Boor 3
BULK TRUCK # DRIVER

REMARKS:
Plug Did Hold

CHARGE TO: White Exploration
STREET
CITY STATE ZIP

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Terry Baird White Exploration
SIGNATURE Terry Baird White Exploration

CEMENT

AMOUNT ORDERED 275 sx ASC + 5# Kolseal + .5% FL-160 + Defoamer, 500 Gal ASF

COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@		
ASC Class A	275sx	@ 20.90	5747.50
Kolseal	1375lb	@ 0.98	1347.50
FL-160	129lbs	@ 18.90	2438.10
Powder Defoamer	69lb	@ 9.80	676.20
		@	
		@	
		@	
		@	
		@	
HANDLING 360 cu ft		@ 2.48	892.80
MILEAGE (79) tm mi X		2.60	205.40
		TOTAL	11307.5

79

SERVICE

DEPTH OF JOB 4764			
PUMP TRUCK CHARGE			2765.75
EXTRA FOOTAGE	@		
MILEAGE	5mi	@ 7.70	38.50
MANIFOLD + Head		@	275
LV	5mi	@ 4.40	22
		@	
		TOTAL	3101.25

PLUG & FLOAT EQUIPMENT

5½

Latch Down Plug	1	@ 324.09	324.09
Float Shoe	1	@ 436.48	436.48
Basket	1	@ 394.29	394.29
centralizer	13	@ 57.33	745.29
Rotating Scratchers	25	@ 138.06	3451.50
		TOTAL	5551.65

SALES TAX (If Any) 1150.54
TOTAL CHARGES 19960.40
DISCOUNT ~~12974~~ 35% 6986.14 IF PAID IN 30 DAYS
Net 12974.26

White Exploration, Inc.

Chain Ranch 'B' #1

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

Well Name:	**Chain Ranch 'B' #1**		
Location:	**NW 1/4 of Section 1-T31S-R12W**		
License Number:	**API 15-007-23951-00**	**Region:**	**Barber Co., KS**
Spud Date:	**9/28/2012**	**Drilling Completed:**	**10/7/2012**
Surface Coordinates:	**475' FNL & 1,916' FWL**		
Bottom Hole Coordinates:	**475' FNL & 1,916' FWL**		
Ground Elevation (ft):	**1,645'**	**K.B. Elevation (ft):**	**1,655'**
Logged Interval (ft):	**3,500' To: 4,765'**	**Total Depth (ft):**	**4,765'**
Formation:	**Simpson**		
Type of Drilling Fluid:	**Chemical**		

OPERATOR

Company: **White Exploration, Inc**
Address: **2400 N. Woodlawn, Suite 115**
Wichita, KS 67220

GEOLOGIST

Name: **Thomas M. Williams**
Company: **Petroleum Geologist**
Address: **Wichita, KS**

CORE

Contractor:			
Core #:			
Formation:			
Core Interval:	**From:**	**Cut:**	
	To:	**Recovered:**	
Bit type:			
Size:			
Coring Time:			

Formation Tops

	Sample Top	E-Log Top
Oread Lime	3506 (-1851)	3510 (-1855)
Heebner Shale	3558 (-1903)	3560 (-1905)
Toronto Lime	3574 (-1919)	3575 (-1920)
Douglas Shale	3586 (-1931)	3588 (-1933)
Brown Lime	3764 (-2109)	3765 (-2110)
Stark Shale	4112 (-2457)	4114 (-2459)
Hushpuckney Shale	4151 (-2496)	4153 (-2498)
Mississippian	4310 (-2655)	4312 (-2657)
Kinderhook Shale	4400 (-2745)	4387 (-2732)
Woodford Shale	4529 (-2874)	4530 (-2875)
Viola Lime	4565 (-2910)	4564 (-2909)
Simpson Shale	4649 (-2994)	4651 (-2996)
Simpson Sand	4659 (-3004)	4664 (-3009)

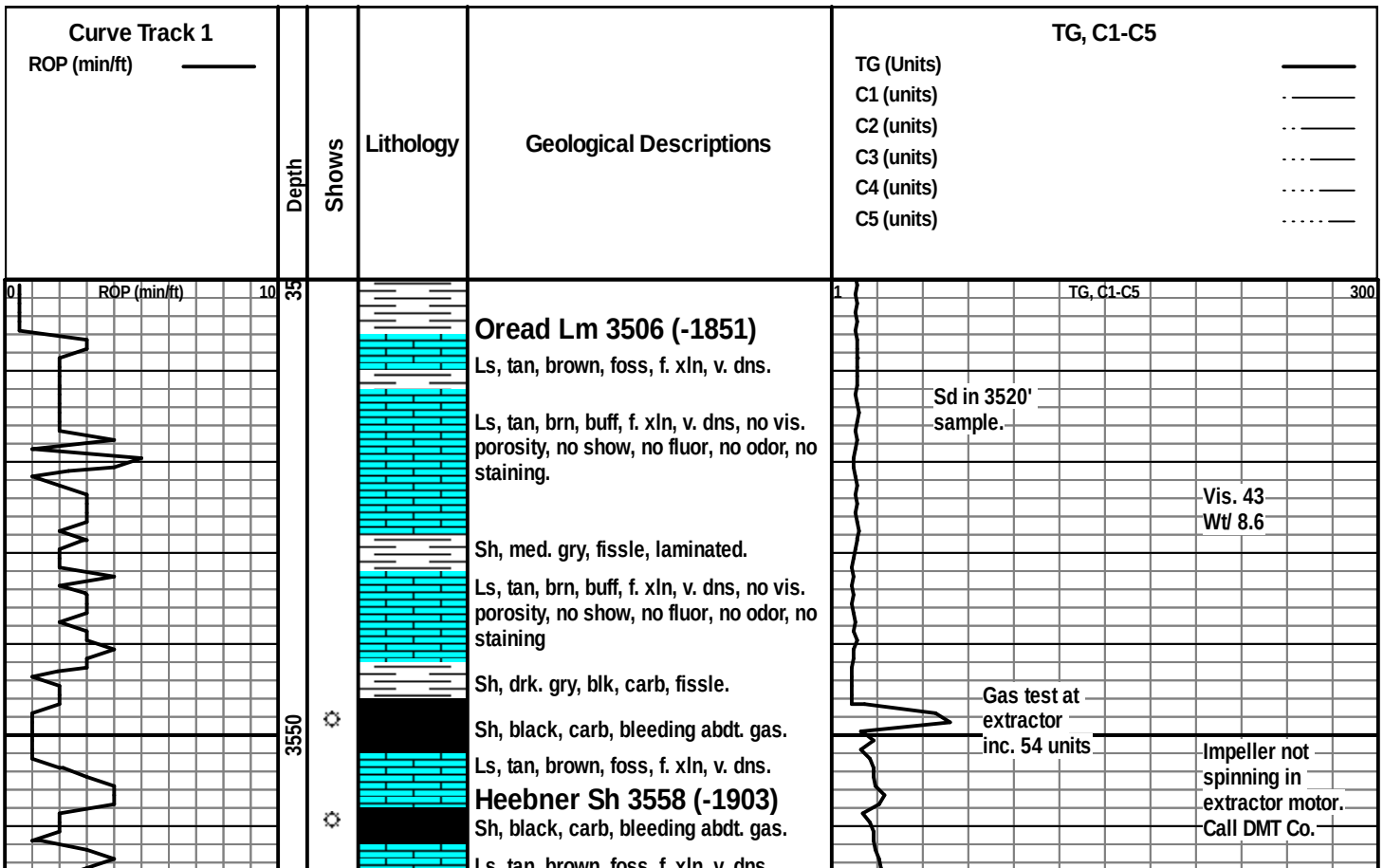
DSTs

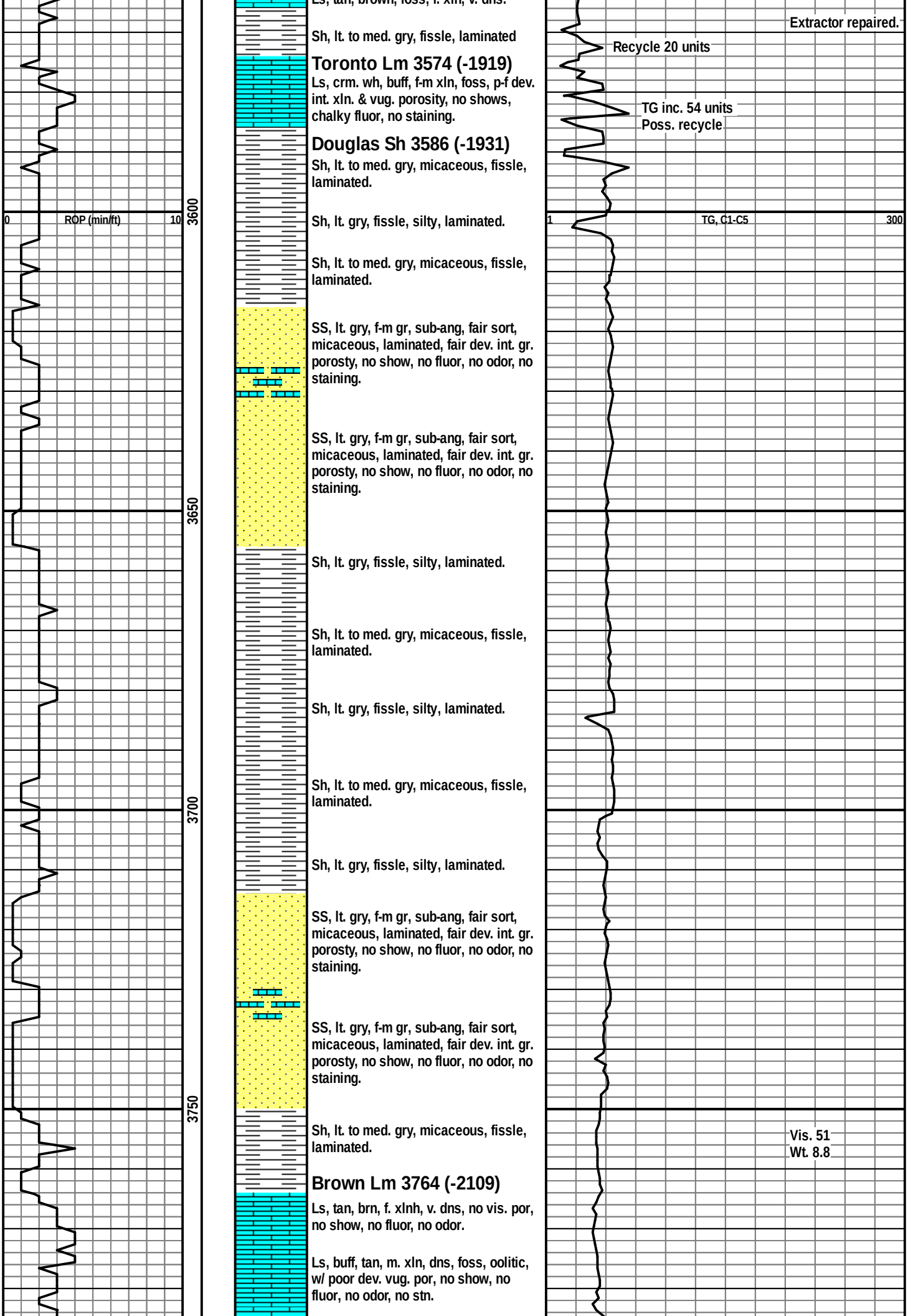
None

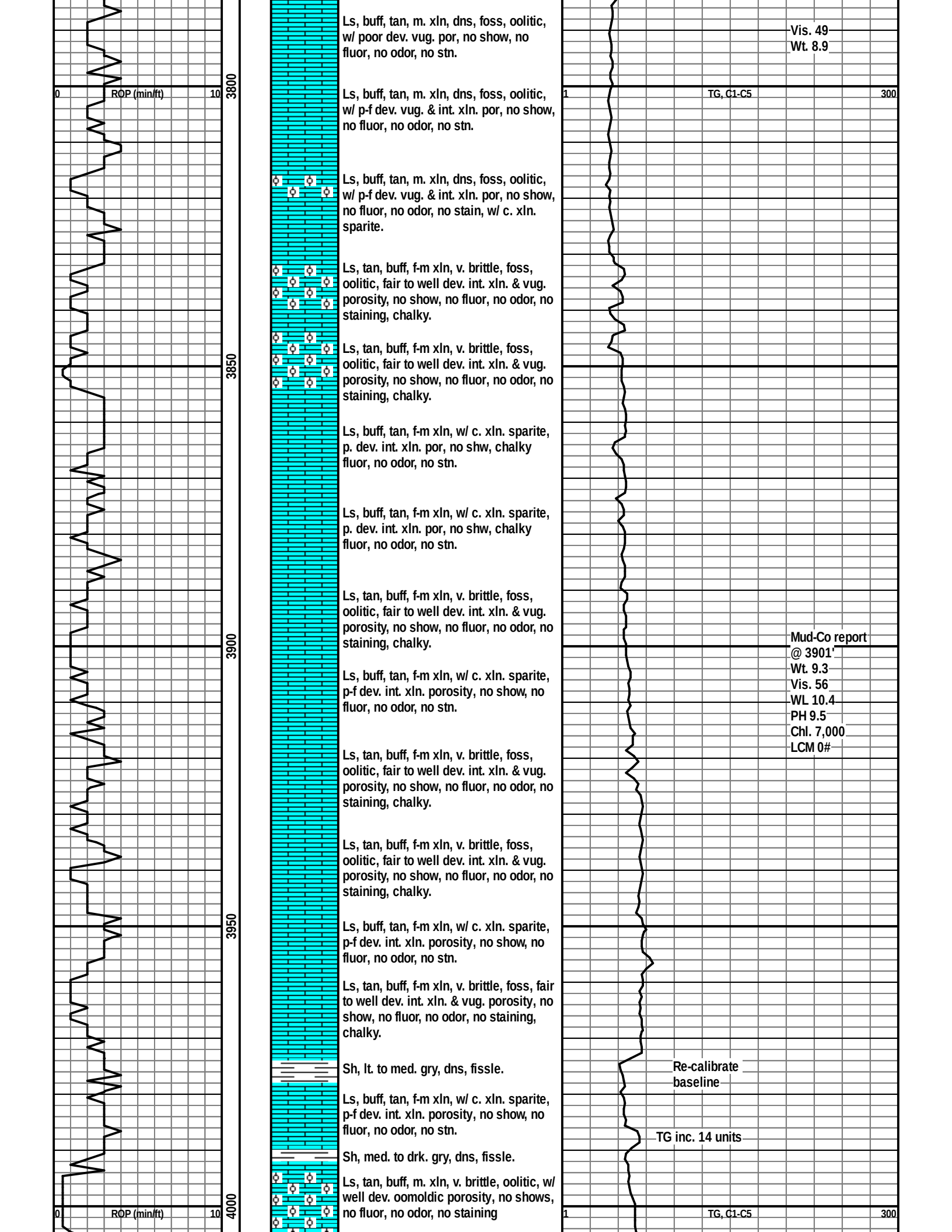
Comments

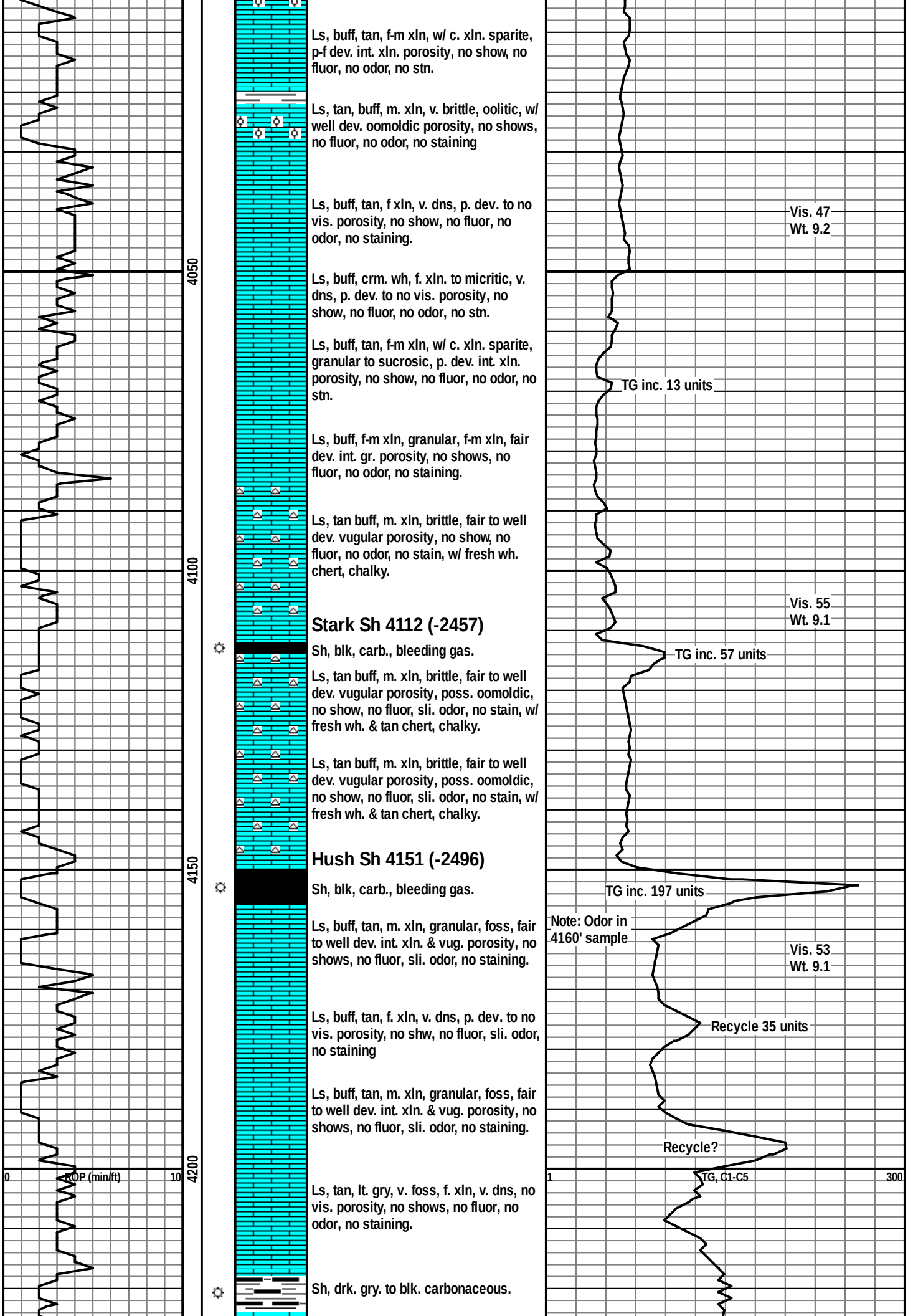
Due to the shows of oil and gas observed in the Mississippian Formation, positive structural position and electric log analysis, it was decided to further test the Chain Ranch 'B' #1 through production casing.

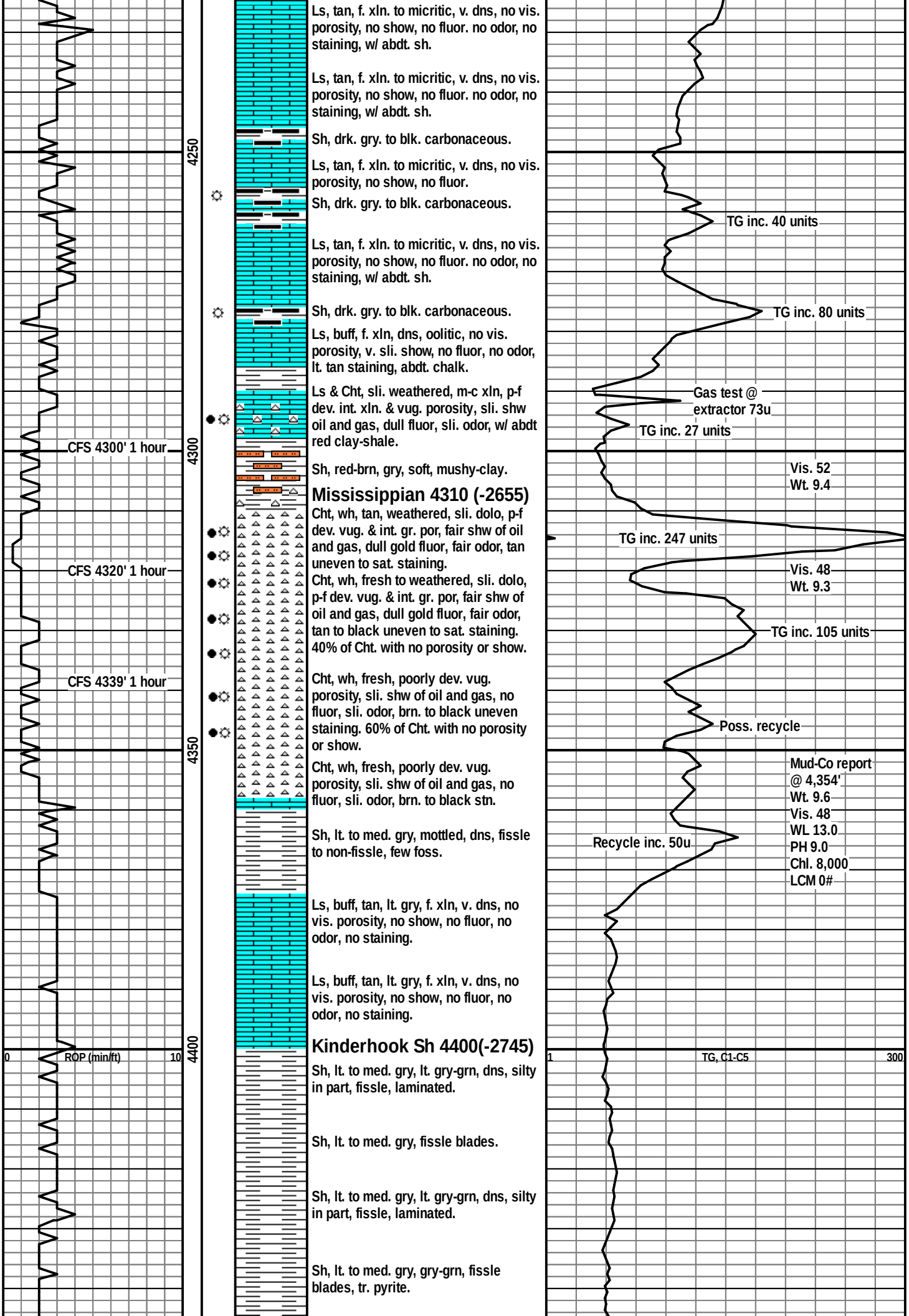
ROCK TYPES

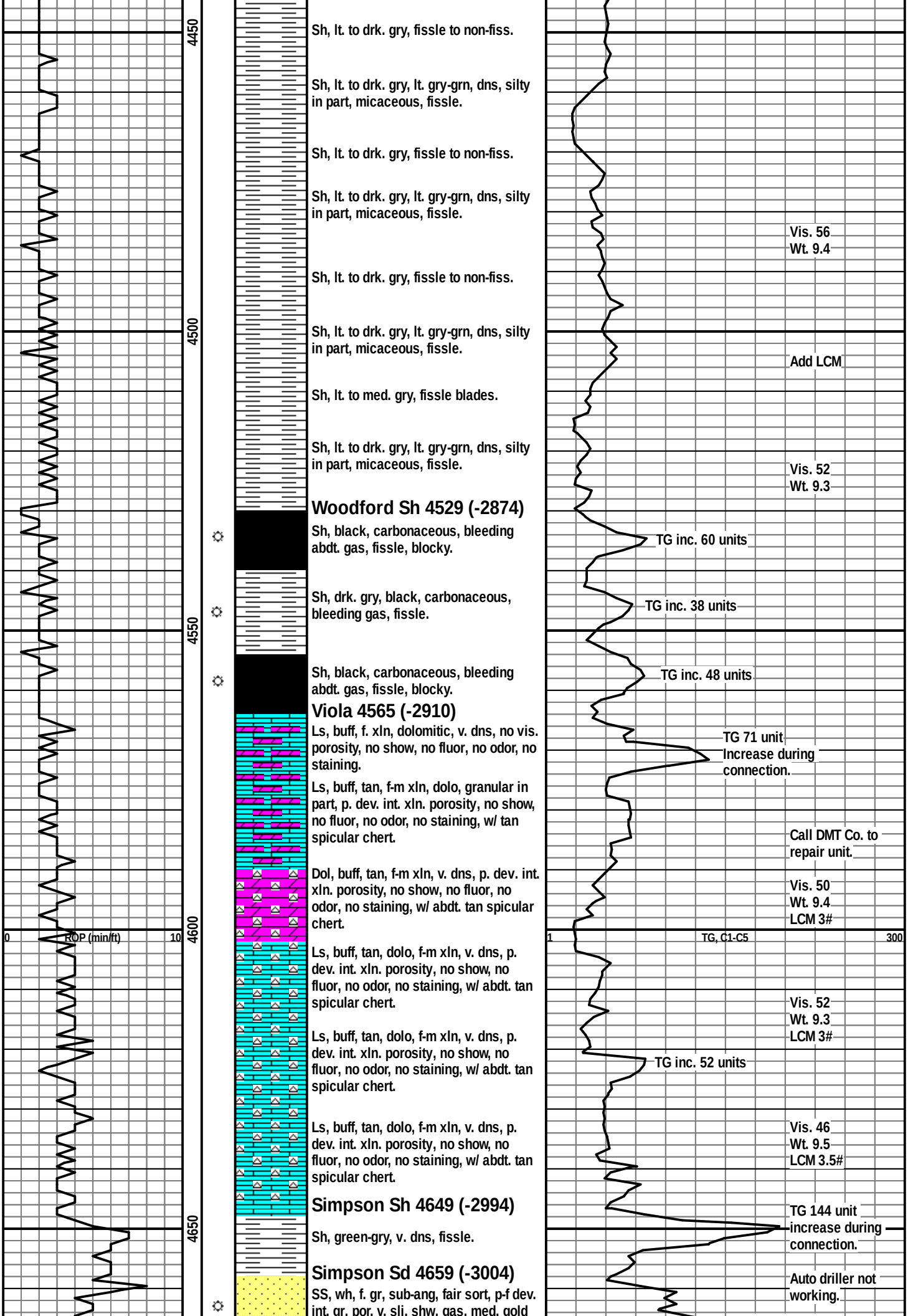


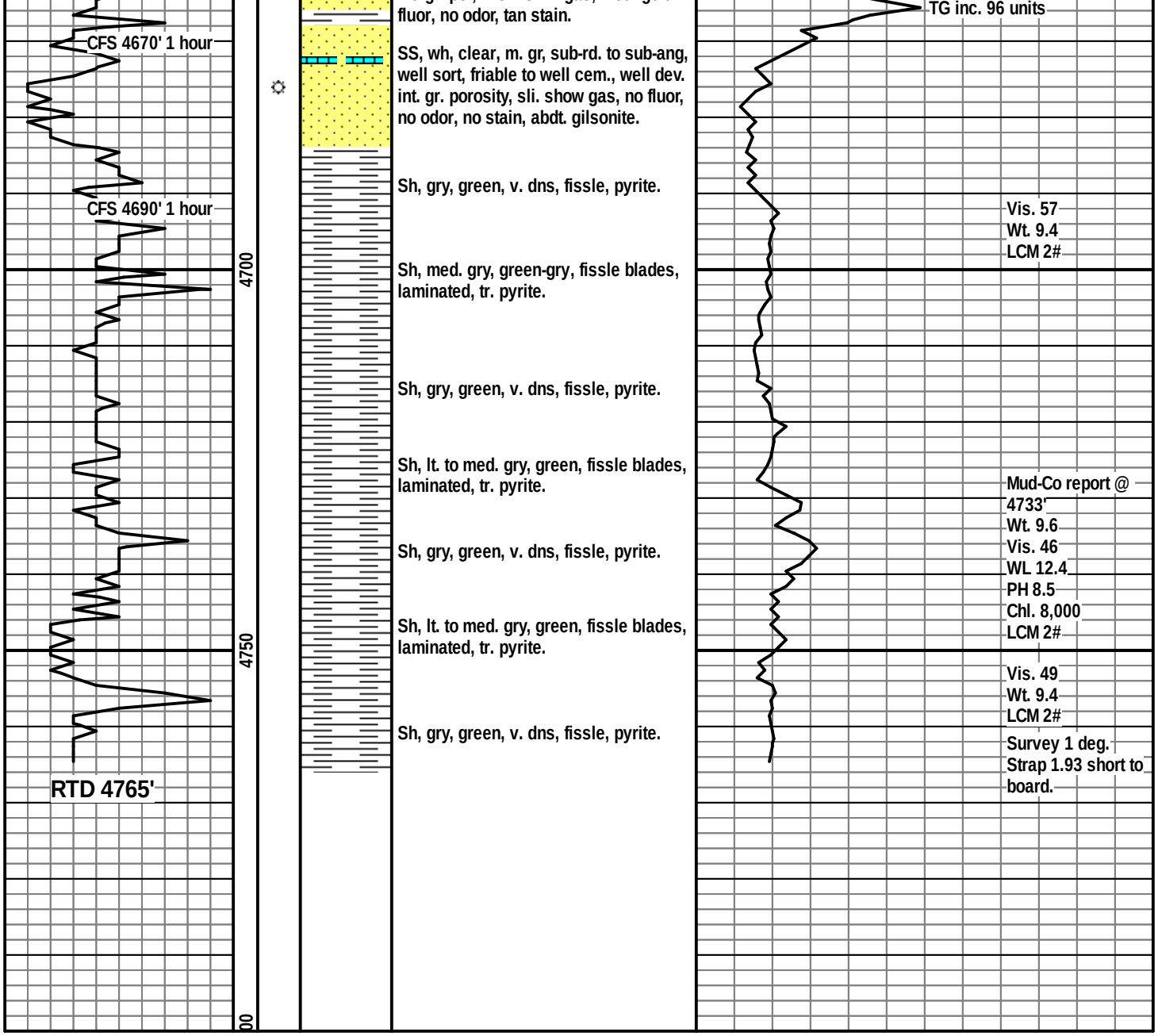

Ls, tan, brown, foss, f. xln, v. dns.
Sh, lt. to med. gry, fissle, laminated
Toronto Lm 3574 (-1919)
Ls, crm. wh, buff, f-m xln, foss, p-f dev. int. xln. & vug. porosity, no shows, chalky fluor, no staining.
Douglas Sh 3586 (-1931)
Sh, lt. to med. gry, micaceous, fissle, laminated.
Sh, lt. gry, fissle, silty, laminated.
Sh, lt. to med. gry, micaceous, fissle, laminated.
SS, lt. gry, f-m gr, sub-ang, fair sort, micaceous, laminated, fair dev. int. gr. porosty, no show, no fluor, no odor, no staining.
SS, lt. gry, f-m gr, sub-ang, fair sort, micaceous, laminated, fair dev. int. gr. porosty, no show, no fluor, no odor, no staining.
Sh, lt. gry, fissle, silty, laminated.
Sh, lt. to med. gry, micaceous, fissle, laminated.
Sh, lt. gry, fissle, silty, laminated.
Sh, lt. to med. gry, micaceous, fissle, laminated.
Sh, lt. gry, fissle, silty, laminated.
SS, lt. gry, f-m gr, sub-ang, fair sort, micaceous, laminated, fair dev. int. gr. porosty, no show, no fluor, no odor, no staining.
SS, lt. gry, f-m gr, sub-ang, fair sort, micaceous, laminated, fair dev. int. gr. porosty, no show, no fluor, no odor, no staining.
Sh, lt. to med. gry, micaceous, fissle, laminated.
Brown Lm 3764 (-2109)
Ls, tan, brn, f. xlnh, v. dns, no vis. por, no show, no fluor, no odor.
Ls, buff, tan, m. xln, dns, foss, oolitic, w/ poor dev. vug. por, no show, no fluor, no odor, no stn.
Extractor repaired.
Recycle 20 units
TG inc. 54 units
Poss. recycle
Vis. 51
Wt. 8.8
0
ROP (min/ft)
10
1
TG, C1-C5
300
3600
3650
3700
3750


0
ROP (min/ft)
10
3800
3850
3900
3950
4000
Ls, buff, tan, m. xln, dns, foss, oolitic, w/ poor dev. vug. por, no show, no fluor, no odor, no stn.
Ls, buff, tan, m. xln, dns, foss, oolitic, w/ p-f dev. vug. & int. xln. por, no show, no fluor, no odor, no stn.
Ls, buff, tan, m. xln, dns, foss, oolitic, w/ p-f dev. vug. & int. xln. por, no show, no fluor, no odor, no stain, w/ c. xln. sparite.
Ls, tan, buff, f-m xln, v. brittle, foss, oolitic, fair to well dev. int. xln. & vug. porosity, no show, no fluor, no odor, no staining, chalky.
Ls, tan, buff, f-m xln, v. brittle, foss, oolitic, fair to well dev. int. xln. & vug. porosity, no show, no fluor, no odor, no staining, chalky.
Ls, buff, tan, f-m xln, w/ c. xln. sparite, p. dev. int. xln. por, no shw, chalky fluor, no odor, no stn.
Ls, buff, tan, f-m xln, w/ c. xln. sparite, p. dev. int. xln. por, no shw, chalky fluor, no odor, no stn.
Ls, tan, buff, f-m xln, v. brittle, foss, oolitic, fair to well dev. int. xln. & vug. porosity, no show, no fluor, no odor, no staining, chalky.
Ls, buff, tan, f-m xln, w/ c. xln. sparite, p-f dev. int. xln. porosity, no show, no fluor, no odor, no stn.
Ls, tan, buff, f-m xln, v. brittle, foss, oolitic, fair to well dev. int. xln. & vug. porosity, no show, no fluor, no odor, no staining, chalky.
Ls, tan, buff, f-m xln, v. brittle, foss, oolitic, fair to well dev. int. xln. & vug. porosity, no show, no fluor, no odor, no staining, chalky.
Ls, buff, tan, f-m xln, w/ c. xln. sparite, p-f dev. int. xln. porosity, no show, no fluor, no odor, no stn.
Ls, tan, buff, f-m xln, v. brittle, foss, fair to well dev. int. xln. & vug. porosity, no show, no fluor, no odor, no staining, chalky.
Sh, lt. to med. gry, dns, fissle.
Ls, buff, tan, f-m xln, w/ c. xln. sparite, p-f dev. int. xln. porosity, no show, no fluor, no odor, no stn.
Sh, med. to drk. gry, dns, fissle.
Ls, tan, buff, m. xln, v. brittle, oolitic, w/ well dev. oomoldic porosity, no shows, no fluor, no odor, no staining
Vis. 49
Wt. 8.9
1
TG, C1-C5
300
Mud-Co report
@ 3901'
Wt. 9.3
Vis. 56
WL 10.4
PH 9.5
Chl. 7,000
LCM 0#
Re-calibrate
baseline
TG inc. 14 units
0
ROP (min/ft)
10
1
TG, C1-C5
300


Ls, buff, tan, f-m xln, w/ c. xln. sparite, p-f dev. int. xln. porosity, no show, no fluor, no odor, no stn.
Ls, tan, buff, m. xln, v. brittle, oolitic, w/ well dev. oomoldic porosity, no shows, no fluor, no odor, no staining
Ls, buff, tan, f xln, v. dns, p. dev. to no vis. porosity, no show, no fluor, no odor, no staining.
Ls, buff, crm. wh, f. xln. to micritic, v. dns, p. dev. to no vis. porosity, no show, no fluor, no odor, no stn.
Ls, buff, tan, f-m xln, w/ c. xln. sparite, granular to sucrosic, p. dev. int. xln. porosity, no show, no fluor, no odor, no stn.
Ls, buff, f-m xln, granular, f-m xln, fair dev. int. gr. porosity, no shows, no fluor, no odor, no staining.
Ls, tan buff, m. xln, brittle, fair to well dev. vugular porosity, no show, no fluor, no odor, no stain, w/ fresh wh. chert, chalky.
Stark Sh 4112 (-2457)
Sh, blk, carb., bleeding gas.
Ls, tan buff, m. xln, brittle, fair to well dev. vugular porosity, poss. oomoldic, no show, no fluor, sli. odor, no stain, w/ fresh wh. & tan chert, chalky.
Ls, tan buff, m. xln, brittle, fair to well dev. vugular porosity, poss. oomoldic, no show, no fluor, sli. odor, no stain, w/ fresh wh. & tan chert, chalky.
Hush Sh 4151 (-2496)
Sh, blk, carb., bleeding gas.
Ls, buff, tan, m. xln, granular, foss, fair to well dev. int. xln. & vug. porosity, no shows, no fluor, sli. odor, no staining.
Ls, buff, tan, f. xln, v. dns, p. dev. to no vis. porosity, no shw, no fluor, sli. odor, no staining
Ls, buff, tan, m. xln, granular, foss, fair to well dev. int. xln. & vug. porosity, no shows, no fluor, sli. odor, no staining.
Ls, tan, lt. gry, v. foss, f. xln, v. dns, no vis. porosity, no shows, no fluor, no odor, no staining.
Sh, drk. gry. to blk. carbonaceous.
4050
4100
4150
4200
0
ROP (min/ft)
10
Vis. 47
Wt. 9.2
TG inc. 13 units
Vis. 55
Wt. 9.1
TG inc. 57 units
TG inc. 197 units
Note: Odor in 4160' sample
Vis. 53
Wt. 9.1
Recycle 35 units
Recycle?
1
TG, C1-C5
300


Ls, tan, f. xln. to micritic, v. dns, no vis. porosity, no show, no fluor. no odor, no staining, w/ abdt. sh.
Ls, tan, f. xln. to micritic, v. dns, no vis. porosity, no show, no fluor. no odor, no staining, w/ abdt. sh.
Sh, drk. gry. to blk. carbonaceous.
Ls, tan, f. xln. to micritic, v. dns, no vis. porosity, no show, no fluor.
Sh, drk. gry. to blk. carbonaceous.
Ls, tan, f. xln. to micritic, v. dns, no vis. porosity, no show, no fluor. no odor, no staining, w/ abdt. sh.
Sh, drk. gry. to blk. carbonaceous.
Ls, buff, f. xln, dns, oolitic, no vis. porosity, v. sli. show, no fluor, no odor, lt. tan staining, abdt. chalk.
Ls & Cht, sli. weathered, m-c xln, p-f dev. int. xln. & vug. porosity, sli. shw oil and gas, dull fluor, sli. odor, w/ abdt red clay-shale.
Sh, red-brn, gry, soft, mushy-clay.
Mississippian 4310 (-2655)
Cht, wh, tan, weathered, sli. dolo, p-f dev. vug. & int. gr. por, fair shw of oil and gas, dull gold fluor, fair odor, tan uneven to sat. staining.
Cht, wh, fresh to weathered, sli. dolo, p-f dev. vug. & int. gr. por, fair shw of oil and gas, dull gold fluor, fair odor, tan to black uneven to sat. staining. 40% of Cht. with no porosity or show.
Cht, wh, fresh, poorly dev. vug. porosity, sli. shw of oil and gas, no fluor, sli. odor, brn. to black uneven staining. 60% of Cht. with no porosity or show.
Cht, wh, fresh, poorly dev. vug. porosity, sli. shw of oil and gas, no fluor, sli. odor, brn. to black stn.
Sh, lt. to med. gry, mottled, dns, fissle to non-fissle, few foss.
Ls, buff, tan, lt. gry, f. xln, v. dns, no vis. porosity, no show, no fluor, no odor, no staining.
Ls, buff, tan, lt. gry, f. xln, v. dns, no vis. porosity, no show, no fluor, no odor, no staining.
Kinderhook Sh 4400(-2745)
Sh, lt. to med. gry, lt. gry-grn, dns, silty in part, fissle, laminated.
Sh, lt. to med. gry, fissle blades.
Sh, lt. to med. gry, lt. gry-grn, dns, silty in part, fissle, laminated.
Sh, lt. to med. gry, gry-grn, fissle blades, tr. pyrite.
4250
4300
4350
4400
CFS 4300' 1 hour
CFS 4320' 1 hour
CFS 4339' 1 hour
0
ROP (min/ft)
10
TG inc. 40 units
TG inc. 80 units
Gas test @ extractor 73u
TG inc. 27 units
Vis. 52
Wt. 9.4
TG inc. 247 units
Vis. 48
Wt. 9.3
TG inc. 105 units
Poss. recycle
Mud-Co report @ 4,354'
Wt. 9.6
Vis. 48
WL 13.0
PH 9.0
Chl. 8,000
LCM 0#
Recycle inc. 50u
1
TG, C1-C5
300


4450
4500
4550
4600
4650
0
ROP (min/ft)
10
Sh, lt. to drk. gry, fissle to non-fiss.
Sh, lt. to drk. gry, lt. gry-grn, dns, silty in part, micaceous, fissle.
Sh, lt. to drk. gry, fissle to non-fiss.
Sh, lt. to drk. gry, lt. gry-grn, dns, silty in part, micaceous, fissle.
Sh, lt. to drk. gry, fissle to non-fiss.
Sh, lt. to drk. gry, lt. gry-grn, dns, silty in part, micaceous, fissle.
Sh, lt. to med. gry, fissle blades.
Sh, lt. to drk. gry, lt. gry-grn, dns, silty in part, micaceous, fissle.
Woodford Sh 4529 (-2874)
Sh, black, carbonaceous, bleeding abdt. gas, fissle, blocky.
Sh, drk. gry, black, carbonaceous, bleeding gas, fissle.
Sh, black, carbonaceous, bleeding abdt. gas, fissle, blocky.
Viola 4565 (-2910)
Ls, buff, f. xln, dolomitic, v. dns, no vis. porosity, no show, no fluor, no odor, no staining.
Ls, buff, tan, f-m xln, dolo, granular in part, p. dev. int. xln. porosity, no show, no fluor, no odor, no staining, w/ tan spicular chert.
Dol, buff, tan, f-m xln, v. dns, p. dev. int. xln. porosity, no show, no fluor, no odor, no staining, w/ abdt. tan spicular chert.
Ls, buff, tan, dolo, f-m xln, v. dns, p. dev. int. xln. porosity, no show, no fluor, no odor, no staining, w/ abdt. tan spicular chert.
Ls, buff, tan, dolo, f-m xln, v. dns, p. dev. int. xln. porosity, no show, no fluor, no odor, no staining, w/ abdt. tan spicular chert.
Ls, buff, tan, dolo, f-m xln, v. dns, p. dev. int. xln. porosity, no show, no fluor, no odor, no staining, w/ abdt. tan spicular chert.
Simpson Sh 4649 (-2994)
Sh, green-gry, v. dns, fissle.
Simpson Sd 4659 (-3004)
SS, wh, f. gr, sub-ang, fair sort, p-f dev. int. gr. por. v. sli. shw. gas, med. gold
Vis. 56
Wt. 9.4
Add LCM
Vis. 52
Wt. 9.3
TG inc. 60 units
TG inc. 38 units
TG inc. 48 units
TG 71 unit
Increase during connection.
Call DMT Co. to repair unit.
Vis. 50
Wt. 9.4
LCM 3#
1
TG, C1-C5
300
Vis. 52
Wt. 9.3
LCM 3#
TG inc. 52 units
Vis. 46
Wt. 9.5
LCM 3.5#
TG 144 unit
increase during connection.
Auto driller not working.


fluor, no odor, tan stain.
SS, wh, clear, m. gr, sub-rd. to sub-ang, well sort, friable to well cem., well dev. int. gr. porosity, sli. show gas, no fluor, no odor, no stain, abdt. gilsonite.
Sh, gry, green, v. dns, fissle, pyrite.
Sh, med. gry, green-gry, fissle blades, laminated, tr. pyrite.
Sh, gry, green, v. dns, fissle, pyrite.
Sh, lt. to med. gry, green, fissle blades, laminated, tr. pyrite.
Sh, gry, green, v. dns, fissle, pyrite.
Sh, lt. to med. gry, green, fissle blades, laminated, tr. pyrite.
Sh, gry, green, v. dns, fissle, pyrite.
CFS 4670' 1 hour
CFS 4690' 1 hour
RTD 4765'
4700
4750
TG inc. 96 units
Vis. 57
Wt. 9.4
LCM 2#
Mud-Co report @ 4733'
Wt. 9.6
Vis. 46
WL 12.4
PH 8.5
Chl. 8,000
LCM 2#
Vis. 49
Wt. 9.4
LCM 2#
Survey 1 deg.
Strap 1.93 short to board.

Attached to and Made a Part of
ACO-1 Form for
WHITE EXPLORATION, INC.
CHAIN RANCH “B” #1
475’ FNL and 1916’ FWL
Section 1-31S-12W
Barber County, Kansas
API# 15-007-23951-00-00

Production Casing Cement
Cemented with 225 sacks of ASC 10% salt, 2% gel, 5# Kolseal/sack, .5% FL-160 and ¼# FloSeal.

Acid and Fracture Treatments
Acidized with 1800 gallons of 10% MCA Acid and 2000 gallons of 10% NE/FE Acid

Frac with 375,942 gallons of Slick Water and 170,600# of Sand (109,900# of 30/50 Sand, 49,200# of 16/30 Sand and 11,500# of 16/30 Resin Coated Sand)