Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1259592

Form ACO-1
November 2016
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5210
Name: Lebsack Oil Production Inc.
Address 1: PO BOX 354
Address 2:
City: CHASE State: KS Zip: 67524 + ____
Contact Person: Wayne Lebsack
Phone: (620) 938-2396
CONTRACTOR: License # 5142
Name: Sterling Drilling Company
Wellsite Geologist: Josh Austin
Purchaser:

Designate Type of Completion:
☑ New Well ☐ Re-Entry ☐ Workover
☐ Oil ☐ WSW ☐ SWD
☐ Gas ☑ DH ☐ EOR
☐ OG ☐ GSW
☐ 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 EOR ☐ Conv. to SWD
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer

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

07/09/2015 Spud Date or Recompletion Date
07/17/2015 Date Reached TD
07/18/2015 Completion Date or Recompletion Date

API No.: 15-055-22417-00-00
Spot Description:
E2 - E2 - W2 - NE Sec. 13 Twp. 22 S. R. 34 ☐ East ☑ West
1320 Feet from ☑ North / ☐ South Line of Section
1420 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: Finney
Lease Name: Garden City Well #: 2-13
Field Name: West Ext. Dame
Producing Formation: Plugged & Abandond
Elevation: Ground: 2912 Kelly Bushing: 2925
Total Vertical Depth: 4850 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 418 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: 3500 ppm Fluid volume: 0 bbls
Dewatering method used: Evaporated
Location of fluid disposal if hauled offsite:
Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. ☐ East ☐ West
County: Permit #:

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: 09/15/2015
☑ **Confidential Release Date:** 09/14/2017
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 09/15/2015

[redacted]

1259592

Operator Name: Lebsack Oil Production Inc. Lease Name: Garden City Well #: 2-13

Sec. 13 Twp. 22 S. R. 34 ☐ East ☑ West County: Finney

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 (Attach Additional Sheets)	☑ Yes	☐ No
Samples Sent to Geological Survey	☑ Yes	☐ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geolgist Report / Mud Logs	☐ Yes	☐ No

List All E. Logs Run:

DIL
MEL
DUCP

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

Name: Attached Top: Attached Datum: 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	12.250	8.625	24	418	Class A Common	265	3% CC 2% Gel

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	-			
	-			

1. Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/ Injection:	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:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top / Bottom

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Lebsack Oil Production Inc.
Well Name	Garden City 2-13
Doc ID	1259592

Tops

Name	Top	Datum
Anhydrite	2018	907
Heebner	3808	-883
Toronto	3827	-902
Lansing	3912	-987
Base KC	4333	-1408
Marmaton	4354	-1429
Pawnee	4440	-1515
Miss. St Gen	4748	-1823
RTD	4850	-1925

Form	ACO1 - Well Completion
Operator	Lebsack Oil Production Inc.
Well Name	Garden City 2-13
Doc ID	1259592

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.250	8.625	24	418	Class A Common	265	3% CC 2% Gel

ALLIED OIL & GAS SERVICES, LLC 065447

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Liberal KS #21

DATE 7-10-15	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START 10:00 AM	JOB FINISH
LEASE	WELL # 2-13	LOCATION Garden City, Hwy 50 to 83				COUNTY Finney	STATE KS
OLD OR NEW (Circle one)							

CONTRACTOR Sterling #5 OWNER

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 427

CASING SIZE 8 5/8 DEPTH 422

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 42

CEMENT LEFT IN CSG. 2 BBL

PERFS.

DISPLACEMENT 23.5 BBL

EQUIPMENT

PUMP TRUCK CEMENTER

\# 928-501 HELPER Aldo Espinoza

BULK TRUCK

\# 205-842 DRIVER Jose Calderon

BULK TRUCK

\# DRIVER

thank you

REMARKS:

CHARGE TO: Lebsack Oil Production Inc

STREET

CITY STATE ZIP

CEMENT

AMOUNT ORDERED 265 sks ... 3%, 2% ...

COMMON	265 sk	@	17.90	4,743.50
POZMIX	#	@		
GEL	Bentonite 499#	@	1.05	523.95
CHLORIDE	748#	@	1.10	822.80
ASC		@		
HANDLING		@		
MILEAGE				

2131.59 / 35% TOTAL 6090.25

SERVICE

DEPTH OF JOB				
PUMP TRUCK CHARGE	1			1512.25
EXTRA FOOTAGE	LM 50	@	4.40	220.00
MILEAGE	HVM 50	@	7.70	385.00
MANIFOLD	1	@	275.00	275.00
Handling	289.00	@	2.48	716.72
Drayage	654.00	@	2.75	1798.50

1717.61 / 35% TOTAL 4907.47

PLUG & FLOAT EQUIPMENT

Top Rubber Plug 1	@	131.00	131.00
	@		
	@		
	@		
	@		

45.85 / 35% TOTAL 131.00

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.

SALES TAX (If Any) 475.92

TOTAL CHARGES 11,128.72

DISCOUNT 3895.05 / 35% IF PAID IN 30 DAYS

Net-7,233.67

PRINTED NAME Alan Lofts

SIGNATURE

Joshua R. Austin

Petroleum Geologist

report for

Lebsack Oil Production, Inc.

COMPANY: Lebsack Oil Production, Inc.

LEASE: Garden City #2-13

FIELD: West Ext. Dame

LOCATION: E2-E2-W2-Ne (1320' FNL & 1420' FEL)

SEC: 13 **TWSP:** 22s **RGE:** 34w

COUNTY: Finney **STATE:** Kansas

KB: 2925' **GL:** 2912'

API # 15-055-22417-00-00

CONTRACTOR: Sterling Drilling Co. (rig #5)

Spud: 07/09/2015 **Comp:** 07/17/2015

RTD: 4850 **LTD:** 4851

Mud Up: 3400' **Type Mud:** Chemical was displaced

Samples Saved From: 3700' to RTD.
Drilling Time Kept From: 3600' to RTD.
Samples Examined From: 3700' to RTD.
Geological Supervision From: 3850' to RTD.
Geologist on Well: Josh Austin

Surface Casing: 8 5/8" @418'

Production Casing: none

Electronic Surveys: By Pioneer Energy Services

NOTES

On the basis of the low structural position, negative drill stem test and after reviewing the electric logs it was recommended by all parties involved in the Garden City 2-13 that it be plugged and abandoned at the rotary total depth 4850.

Lebsack Oil Production, Inc.
well comparison sheet

	DRILLING WELL Garden City 2-13				COMPARISON WELL Garden City 1-13			
	2925 KB				2923 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log
Anhydrite	2023	902	2018	907	2020	903	-1	4
Heebner	3808	-883	3808	-883	3796	-873	-10	-10
Toronto	3829	-904	3827	-902	3816	-893	-11	-9
Lansing	3905	-980	3912	-987	3893	-970	-10	-17
Base KC	4330	-1405	4333	-1408	4318	-1395	-10	-13
Marmaton	4355	-1430	4354	-1429	4341	-1418	-12	-11
Pawnee	4441	-1516	4440	-1515	4422	-1499	-17	-16
Ft. Scott	4474	-1549	4471	-1546	4450	-1527	-22	-19
Cherokee Sh.	4483	-1558	4482	-1557	4459	-1536	-22	-21
Morrow Shale	4666	-1741	4668	-1743	4642	-1719	-22	-24
Miss. St. Gen.	4737	-1812	4748	-1823	4708	-1785	-27	-38
St. louis C	4807	-1882	4809	-1884	4768	-1845	-37	-39
RTD	4850	-1925			4860	-1937		
LTD			4851	-1926	4858	-1935		

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lebsack Oil Production Inc

P.O. box 354
Chase, Ks 67524

ATTN: Josh Austin

13-22-34 Finney, Ks

Garden City 2-13

Job Ticket: 61734 **DST#: 1**

Test Start: 2015.07.14 @ 23:00:46

GENERAL INFORMATION:

Formation: Pawnee
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:59:16
Time Test Ended: 06:05:46

Test Type: Conventional Bottom Hole (Initial)
Tester: Brandon Turley
Unit No: 79

Interval: **4430.00 ft (KB) To 4460.00 ft (KB) (TVD)**
Total Depth: 4460.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2925.00 ft (KB)
2912.00 ft (CF)
KB to GR/CF: 13.00 ft

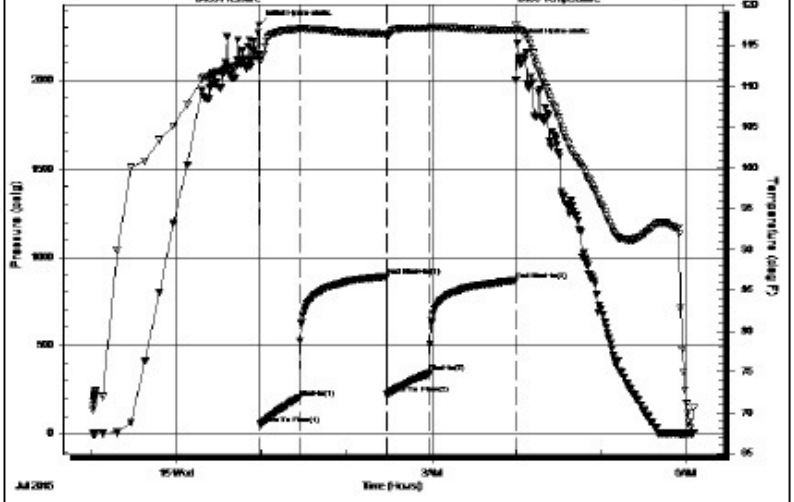
Serial #: 8166 Outside
Press@RunDepth: 340.99 psig @ 4431.00 ft (KB)
Start Date: 2015.07.14 End Date: 2015.07.15
Start Time: 23:00:51 End Time: 06:05:45

Capacity: 8000.00 psig
Last Calib.: 2015.07.15
Time On Btm: 2015.07.15 @ 00:58:46
Time Off Btm: 2015.07.15 @ 04:00:46

TEST COMMENT: IF: 1/4 blow BOB in 5 min.
IS: No return.
FF: BOB in 10 min.
FS: No return.

Pressure vs. Time

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2315.87	113.80	Initial Hydro-static
1	51.88	112.91	Open To Flow (1)
28	201.85	116.97	Shut-In(1)
91	891.03	116.46	End Shut-In(1)
91	222.18	116.16	Open To Flow (2)
120	340.99	117.12	Shut-In(2)
181	865.57	116.82	End Shut-In(2)
182	2212.83	116.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
504.00	mcw 80%w 20%m	6.52
204.00	w cm oil spots 40%w 60%m	2.86

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Lebsack Oil Production Inc

P.O. box 354
Chase, Ks 67524

ATTN: Josh Austin

13-22-34 Finney, Ks

Garden City 2-13

Job Ticket: 61735 **DST#: 2**

Test Start: 2015.07.17 @ 01:15:37

GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:52:37
Time Test Ended: 08:23:37

Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79

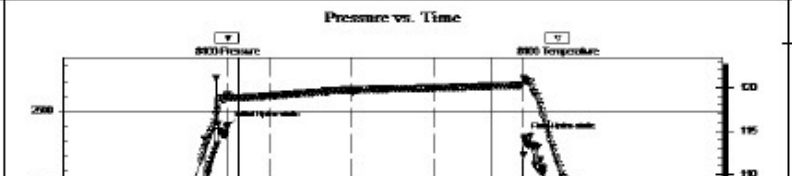
Interval: 4754.00 ft (KB) To 4850.00 ft (KB) (TVD)
Total Depth: 4850.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2925.00 ft (KB)
2912.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8166 Outside
Press@RunDepth: 36.69 psig @ 4755.00 ft (KB)
Start Date: 2015.07.17 End Date: 2015.07.17
Start Time: 01:15:42 End Time: 08:23:36

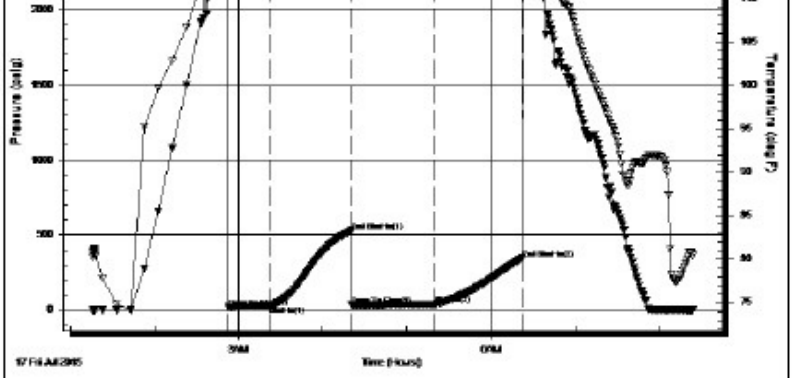
Capacity: 8000.00 psig
Last Calib.: 2015.07.17
Time On Btm: 2015.07.17 @ 02:52:07
Time Off Btm: 2015.07.17 @ 06:23:07

TEST COMMENT: IF: 1/4 blow died in 8 min.
IS: No return.
FF: No blow.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2398.07	119.21	Initial Hydro-static
1	18.78	118.73	Open To Flow (1)



30	26.96	119.01	Shut-In(1)
89	527.39	119.70	End Shut-In(1)
89	32.69	119.49	Open To Flow (2)
147	36.69	119.94	Shut-In(2)
210	343.78	120.29	End Shut-In(2)
211	2320.64	120.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	ocm 10%o 90%m	0.10

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

ROCK TYPES

sdy lmst, Lmst fw7>, shale, grn, shale, gry, Carbon Sh, Ss, Sltst

ACCESSORIES

MINERAL
- Chert, dark
- Glauconite
- Silty
- Chert White
- Mc Mica
- Euhed rhombs of dol or

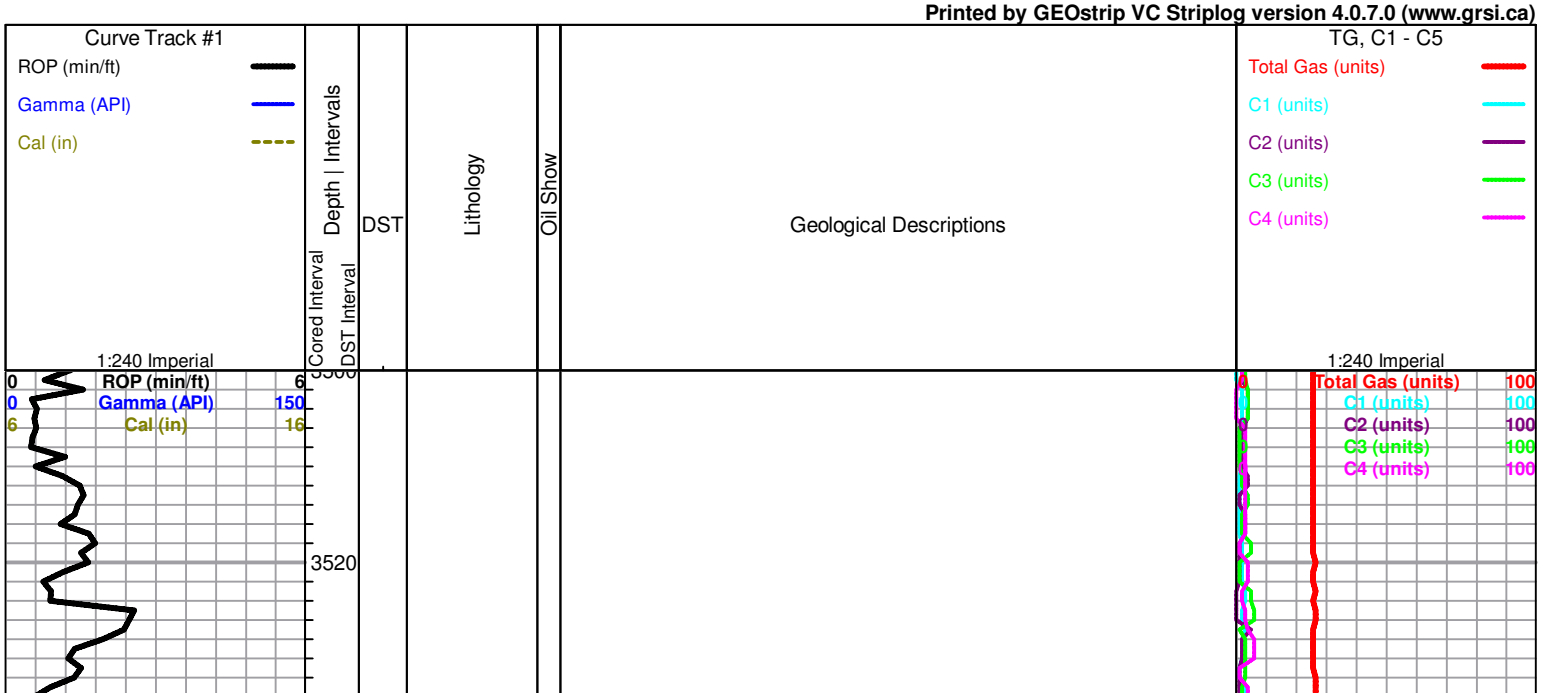
FOSSIL
- F Fossils < 20%
- Oolite
- Oomoldic

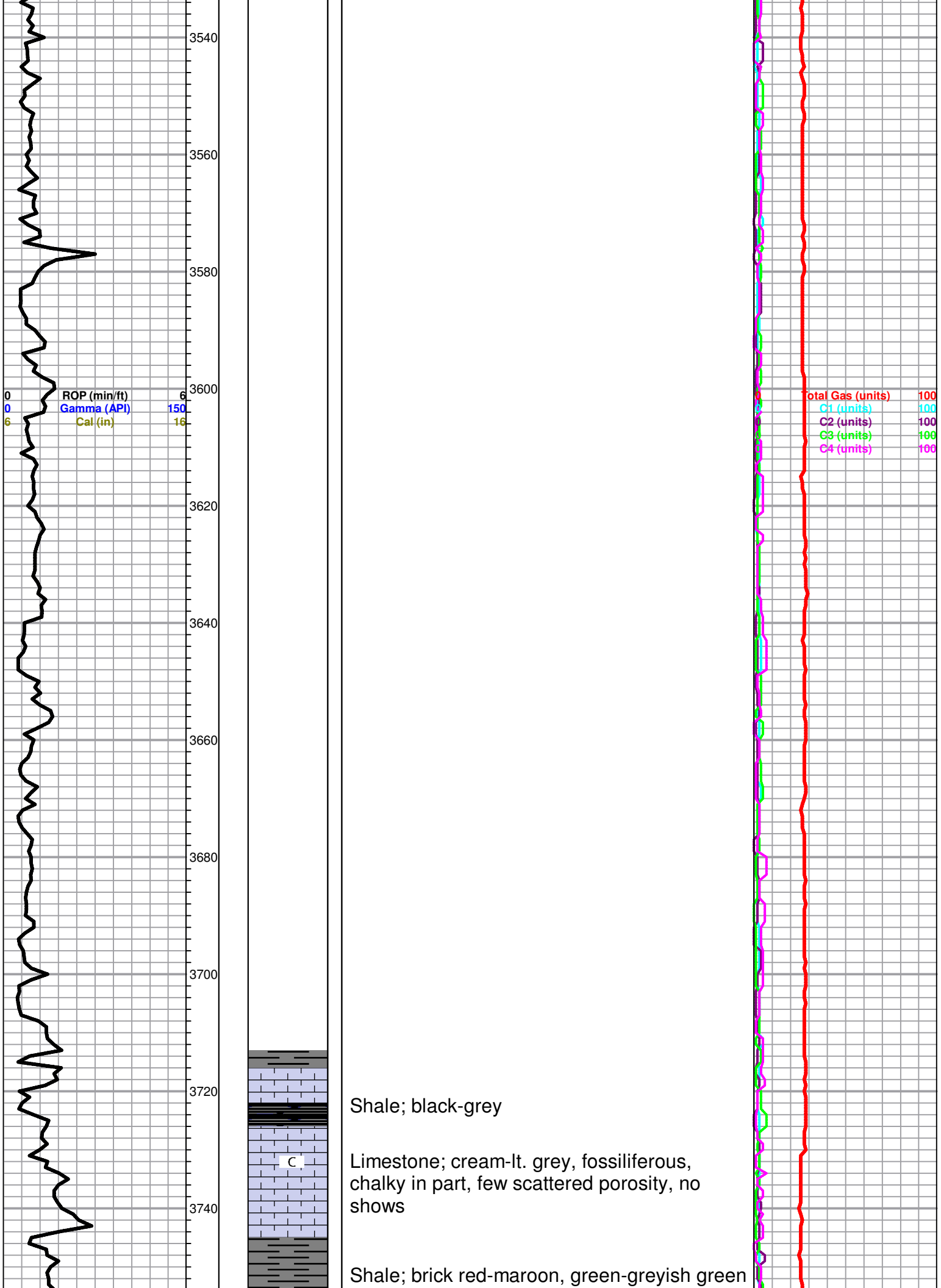
TEXTURE
- C Chalky
- MX MicroxIn

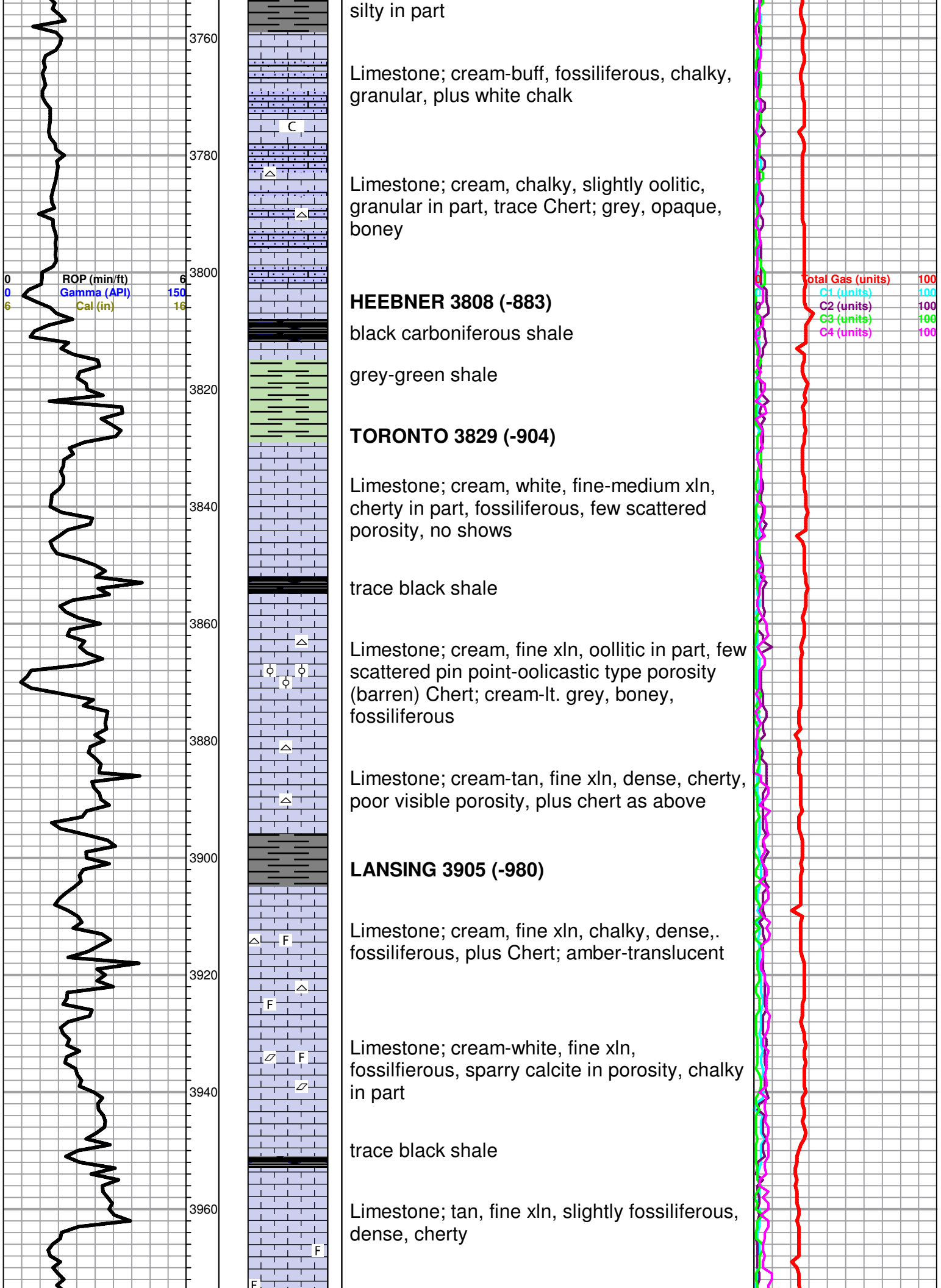
OTHER SYMBOLS

DST
- DST Int
- DST alt
- Core
- tail pipe

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)




3540
3560
3580
3600
3620
3640
3660
3680
3700
3720
3740
0
ROP (min/ft)
6
0
Gamma (API)
150
6
Cal (in)
16
Total Gas (units)
100
C1 (units)
100
C2 (units)
100
C3 (units)
100
C4 (units)
100
C
Shale; black-grey
Limestone; cream-lt. grey, fossiliferous, chalky in part, few scattered porosity, no shows
Shale; brick red-maroon, green-greyish green



silty in part

Limestone; cream-buff, fossiliferous, chalky, granular, plus white chalk

Limestone; cream, chalky, slightly oolitic, granular in part, trace Chert; grey, opaque, boney

HEEBNER 3808 (-883)

black carboniferous shale

grey-green shale

TORONTO 3829 (-904)

Limestone; cream, white, fine-medium xln, cherty in part, fossiliferous, few scattered porosity, no shows

trace black shale

Limestone; cream, fine xln, oollitic in part, few scattered pin point-oolicastic type porosity (barren) Chert; cream-lt. grey, boney, fossiliferous

Limestone; cream-tan, fine xln, dense, cherty, poor visible porosity, plus chert as above

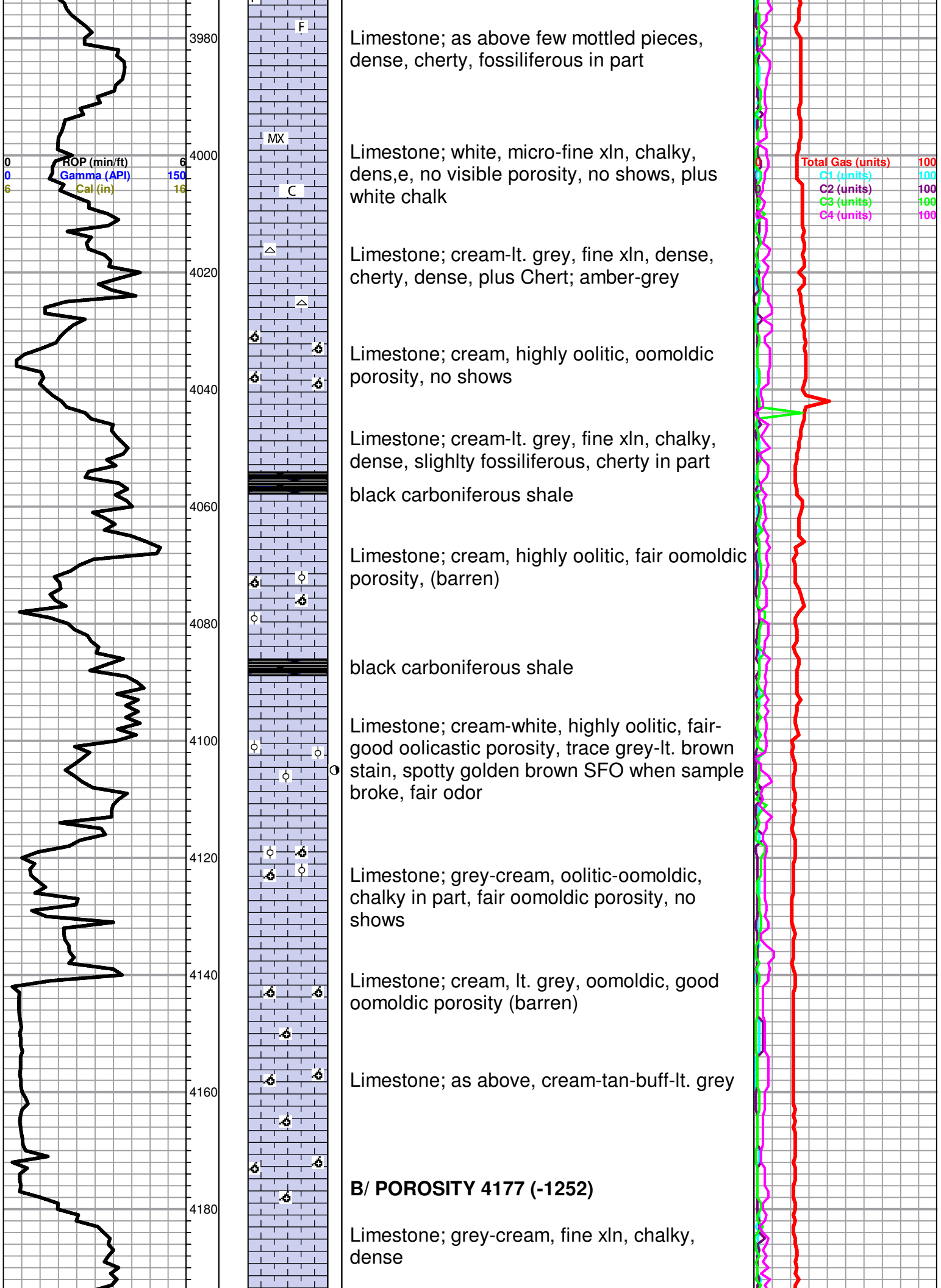
LANSING 3905 (-980)

Limestone; cream, fine xln, chalky, dense,. fossiliferous, plus Chert; amber-translucent

Limestone; cream-white, fine xln, fossilfierous, sparry calcite in porosity, chalky in part

trace black shale

Limestone; tan, fine xln, slightly fossiliferous, dense, cherty



Limestone; as above few mottled pieces, dense, cherty, fossiliferous in part

Limestone; white, micro-fine xln, chalky, dens,e, no visible porosity, no shows, plus white chalk

Limestone; cream-lt. grey, fine xln, dense, cherty, dense, plus Chert; amber-grey

Limestone; cream, highly oolitic, oomoldic porosity, no shows

Limestone; cream-lt. grey, fine xln, chalky, dense, slighlty fossiliferous, cherty in part

black carboniferous shale

Limestone; cream, highly oolitic, fair oomoldic porosity, (barren)

black carboniferous shale

Limestone; cream-white, highly oolitic, fair-good oolicastic porosity, trace grey-lt. brown stain, spotty golden brown SFO when sample broke, fair odor

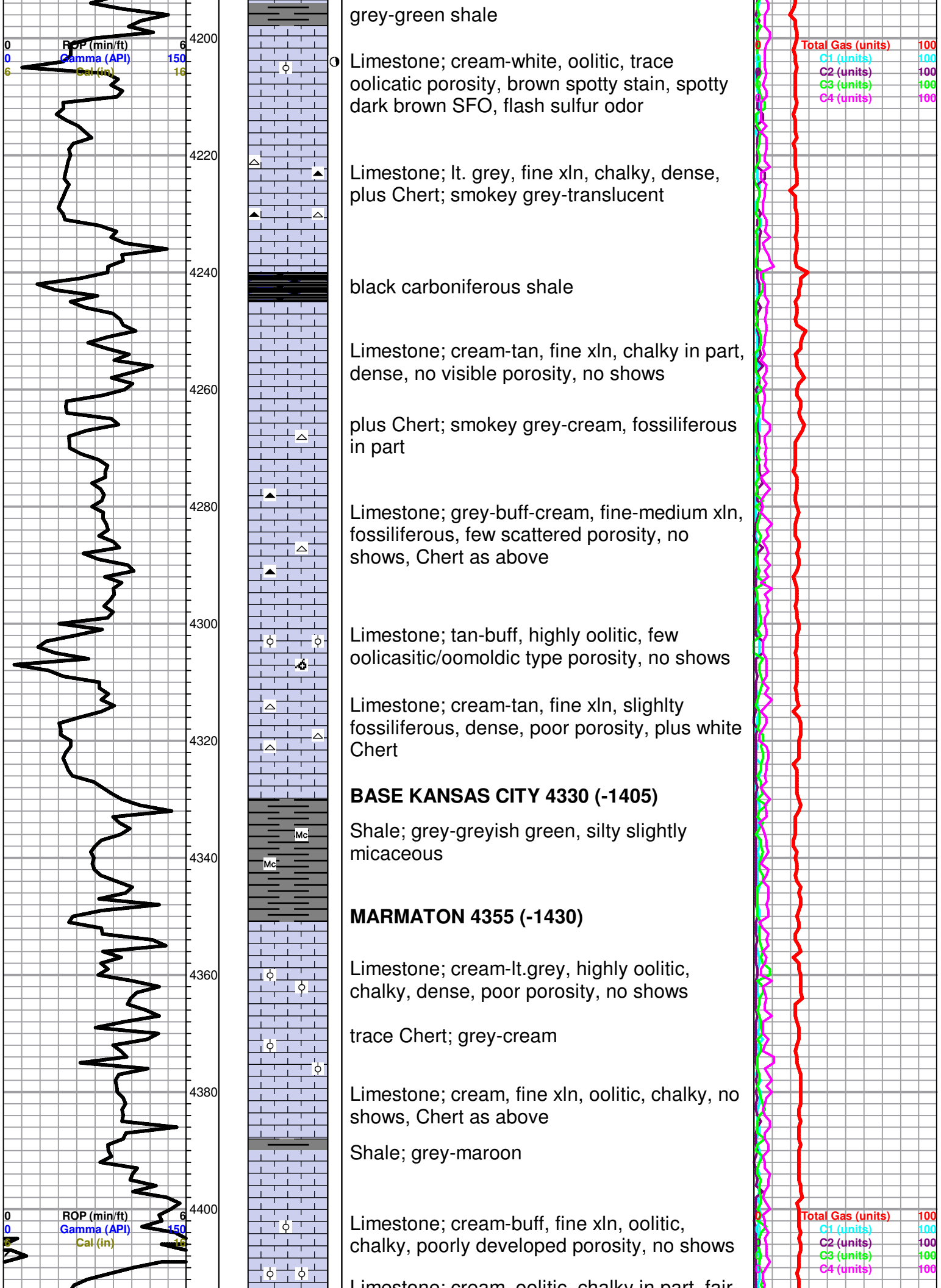
Limestone; grey-cream, oolitic-oomoldic, chalky in part, fair oomoldic porosity, no shows

Limestone; cream, lt. grey, oomoldic, good oomoldic porosity (barren)

Limestone; as above, cream-tan-buff-lt. grey

B/ POROSITY 4177 (-1252)

Limestone; grey-cream, fine xln, chalky, dense



grey-green shale

Limestone; cream-white, oolitic, trace oolicatic porosity, brown spotty stain, spotty dark brown SFO, flash sulfur odor

Limestone; lt. grey, fine xln, chalky, dense, plus Chert; smokey grey-translucent

black carboniferous shale

Limestone; cream-tan, fine xln, chalky in part, dense, no visible porosity, no shows

plus Chert; smokey grey-cream, fossiliferous in part

Limestone; grey-buff-cream, fine-medium xln, fossiliferous, few scattered porosity, no shows, Chert as above

Limestone; tan-buff, highly oolitic, few oolicasitic/oomoldic type porosity, no shows

Limestone; cream-tan, fine xln, slighlty fossiliferous, dense, poor porosity, plus white Chert

BASE KANSAS CITY 4330 (-1405)

Shale; grey-greyish green, silty slightly micaceous

MARMATON 4355 (-1430)

Limestone; cream-lt.grey, highly oolitic, chalky, dense, poor porosity, no shows

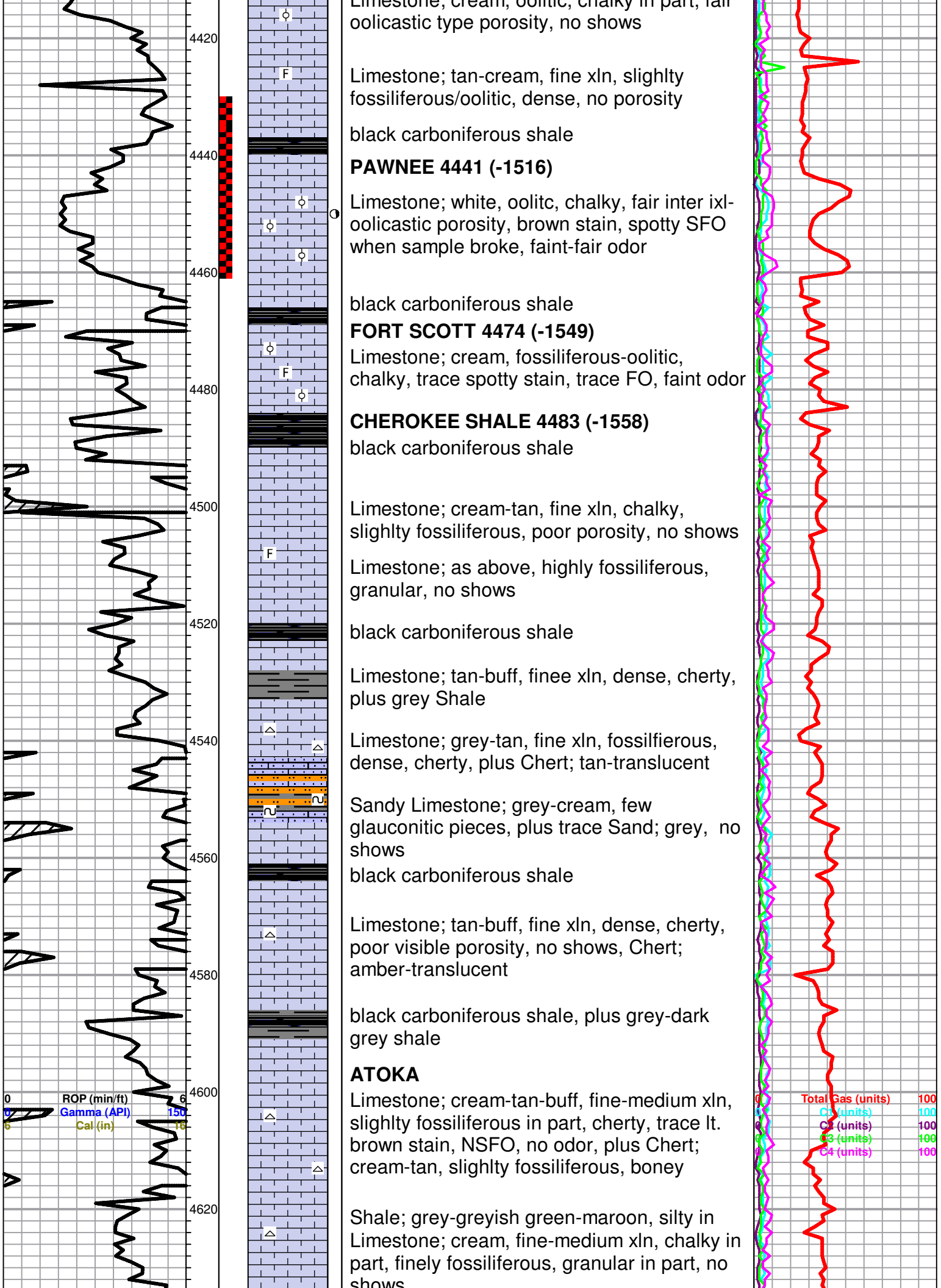
trace Chert; grey-cream

Limestone; cream, fine xln, oolitic, chalky, no shows, Chert as above

Shale; grey-maroon

Limestone; cream-buff, fine xln, oolitic, chalky, poorly developed porosity, no shows

Limestone; cream, oolitic, chalky in part, fair



Limestone; cream, oolitic, chalky in part, fair oolicastic type porosity, no shows

Limestone; tan-cream, fine xln, slighlty fossiliferous/oolitic, dense, no porosity

black carboniferous shale

PAWNEE 4441 (-1516)

Limestone; white, oolitc, chalky, fair inter ixl-oolicastic porosity, brown stain, spotty SFO when sample broke, faint-fair odor

black carboniferous shale

FORT SCOTT 4474 (-1549)

Limestone; cream, fossiliferous-oolitic, chalky, trace spotty stain, trace FO, faint odor

CHEROKEE SHALE 4483 (-1558)

black carboniferous shale

Limestone; cream-tan, fine xln, chalky, slighlty fossiliferous, poor porosity, no shows

Limestone; as above, highly fossiliferous, granular, no shows

black carboniferous shale

Limestone; tan-buff, finee xln, dense, cherty, plus grey Shale

Limestone; grey-tan, fine xln, fossilfierous, dense, cherty, plus Chert; tan-translucent

Sandy Limestone; grey-cream, few glauconitic pieces, plus trace Sand; grey, no shows

black carboniferous shale

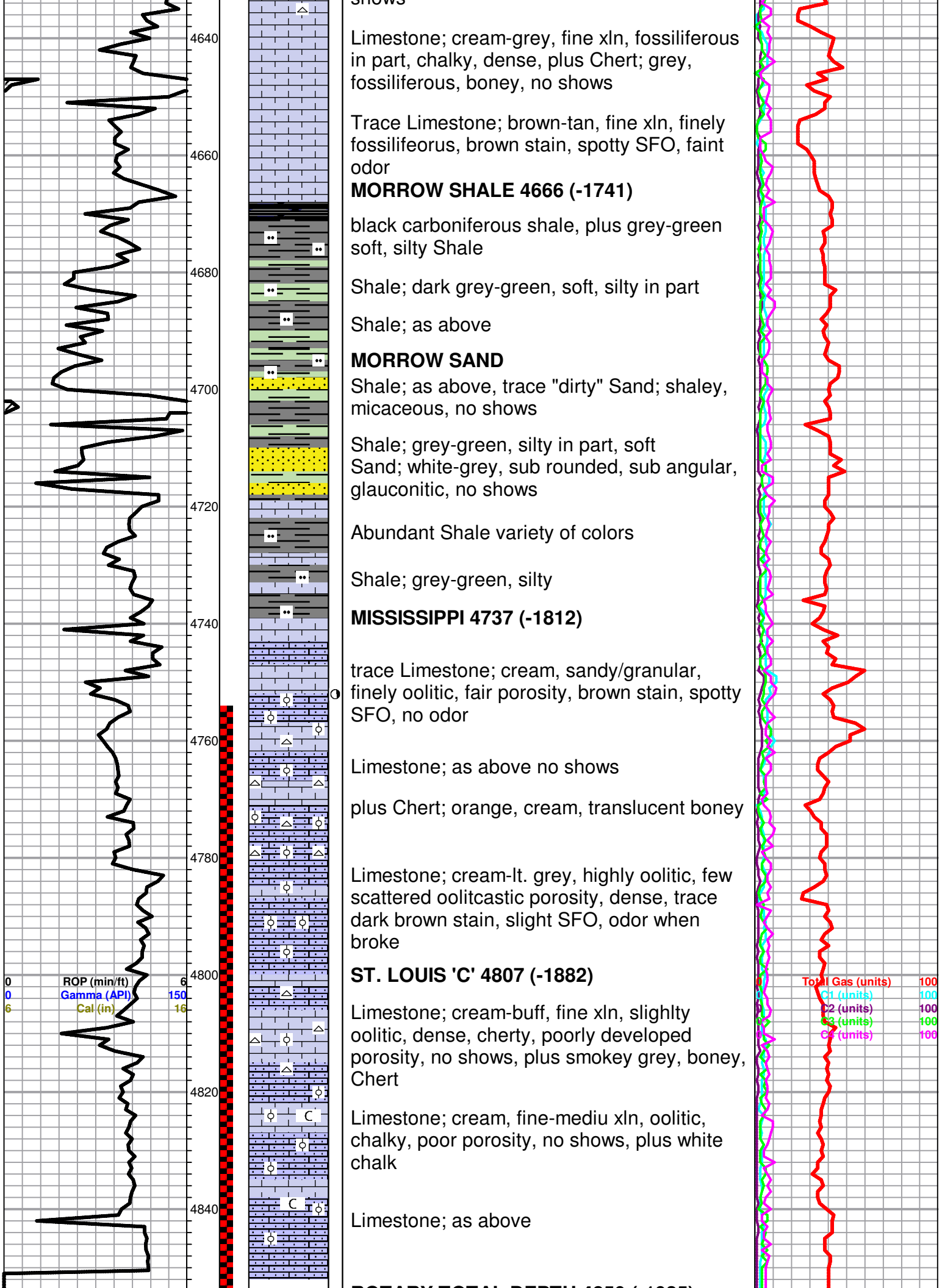
Limestone; tan-buff, fine xln, dense, cherty, poor visible porosity, no shows, Chert; amber-translucent

black carboniferous shale, plus grey-dark grey shale

ATOKA

Limestone; cream-tan-buff, fine-medium xln, slighlty fossiliferous in part, cherty, trace lt. brown stain, NSFO, no odor, plus Chert; cream-tan, slighlty fossiliferous, boney

Shale; grey-greyish green-maroon, silty in Limestone; cream, fine-medium xln, chalky in part, finely fossiliferous, granular in part, no shows



shows

Limestone; cream-grey, fine xln, fossiliferous in part, chalky, dense, plus Chert; grey, fossiliferous, boney, no shows

Trace Limestone; brown-tan, fine xln, finely fossilifeorus, brown stain, spotty SFO, faint odor

MORROW SHALE 4666 (-1741)

black carboniferous shale, plus grey-green soft, silty Shale

Shale; dark grey-green, soft, silty in part

Shale; as above

MORROW SAND

Shale; as above, trace "dirty" Sand; shaley, micaceous, no shows

Shale; grey-green, silty in part, soft
Sand; white-grey, sub rounded, sub angular, glauconitic, no shows

Abundant Shale variety of colors

Shale; grey-green, silty

MISSISSIPPI 4737 (-1812)

trace Limestone; cream, sandy/granular, finely oolitic, fair porosity, brown stain, spotty SFO, no odor

Limestone; as above no shows

plus Chert; orange, cream, translucent boney

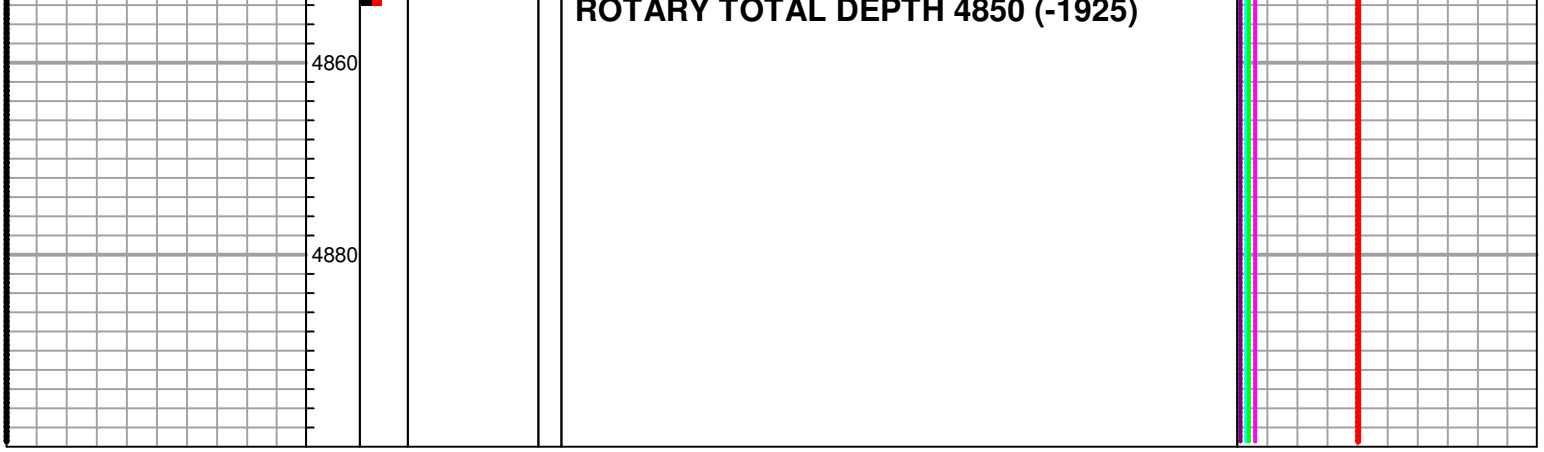
Limestone; cream-lt. grey, highly oolitic, few scattered oolitcastic porosity, dense, trace dark brown stain, slight SFO, odor when broke

ST. LOUIS 'C' 4807 (-1882)

Limestone; cream-buff, fine xln, slighlty oolitic, dense, cherty, poorly developed porosity, no shows, plus smokey grey, boney, Chert

Limestone; cream, fine-mediu xln, oolitic, chalky, poor porosity, no shows, plus white chalk

Limestone; as above


4860
4880
ROTARY TOTAL DEPTH 4850 (-1925)