Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1107007

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 # 3911
Name: Rama Operating Co., Inc.
Address 1: 101 S MAIN ST
Address 2:
City: STAFFORD State: KS Zip: 67578 + 1429
Contact Person: Robin L. Austin
Phone: (620) 234-5191
CONTRACTOR: License # 5142
Name: Sterling Drilling Company
Wellsite Geologist: Josh Austin
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 #: D31500
☐ ENHR Permit #:
☐ GSW Permit #:

12/27/2012 Spud Date or Recompletion Date
01/05/2013 Date Reached TD
01/16/2013 Completion Date or Recompletion Date

API No. 15 - 15-151-22405-00-00
Spot Description:
E2 - SE - NW - SE Sec. 24 Twp. 29 S. R. 14 ☐ East ☑ West
1650 Feet from ☐ North / ☑ South Line of Section
1485 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: Pratt
Lease Name: Andrews Well #: 8-24
Field Name:
Producing Formation: Arbuckle
Elevation: Ground: 1958 Kelly Bushing: 1967
Total Vertical Depth: 4650 Plug Back Total Depth: 4650
Amount of Surface Pipe Set and Cemented at: 308 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: 3600 ppm Fluid volume: 160 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Bullseye Oilfield Service
Lease Name: Clark License #: 31056
Quarter NW Sec. 10 Twp. 26 S. R. 12 ☐ East ☑ West
County: Pratt Permit #: D21405

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: 04/01/2013
☑ **Confidential Release Date:** 04/01/2015
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☑ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 04/02/2013

1107007

Operator Name: Rama Operating Co., Inc. Lease Name: Andrews Well #: 8-24

Sec. 24 Twp. 29 S. R. 14 ☐ East ☑ West County: Pratt

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:

MEL
DUCP
DIL

☑ 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	23	308	60/40 oz	300	2% gel 3% CC
Production	7.875	5.5	14	4427	AA-2	200	

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

TUBING RECORD: Size: 2.375 Set At: 4408 Packer At: 4408

Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 02/19/2013

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

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:
_____
_____

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

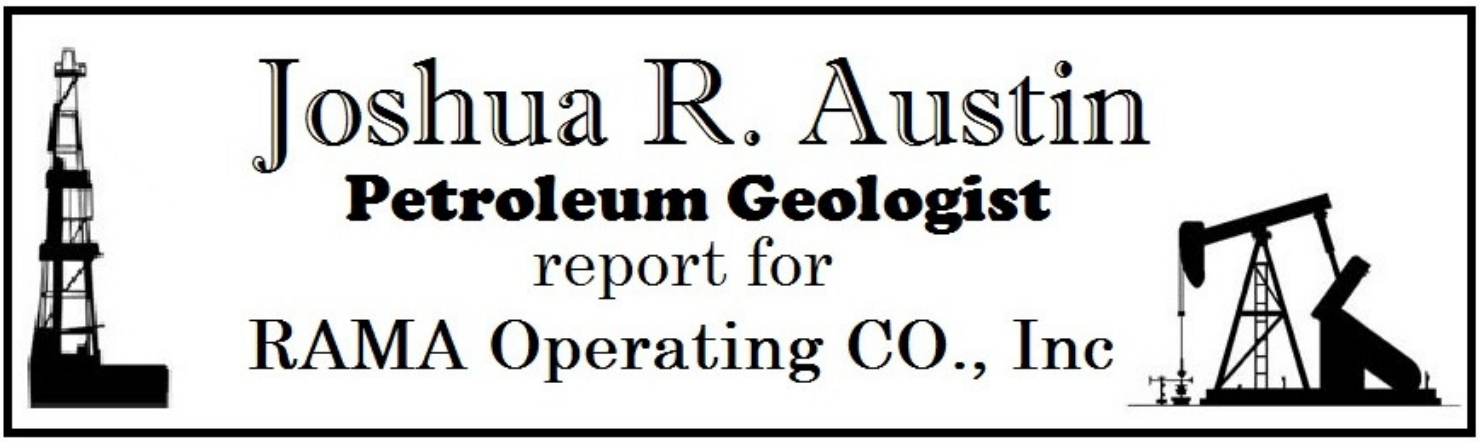
Form	ACO1 - Well Completion
Operator	Rama Operating Co., Inc.
Well Name	Andrews 8-24
Doc ID	1107007

Tops

Name	Top	Datum
Herrington	2155	-155
Howard	3227	-1260
Tokepa	3344	-1377
Heebner	3705	-1738
Brown Lime	3873	-1906
Lansing	3891	-1924
Simpsom Shale	4323	-2356
Arbuckle	4355	-2388
RTD	4650	-2683

OPERATOR

Company:	RAMA Operating Co., Inc.		
Address:	101 S. Main St. Stafford, Kansas 67578		
Contact Geologist:			
Contact Phone Nbr:	620-234-5191		
Well Name:	Andrews 8-24		
Location:	8 5/8" @ 310'	API:	15-151-22405-00-00
Pool:		Field:	Coats
State:	Kansas, Pratt County	Country:	USA



Scale 1:240 Imperial

Well Name:	Andrews 8-24		
Surface Location:	8 5/8" @ 310'		
Bottom Location:			
API:	15-151-22405-00-00		
License Number:			
Spud Date:	12/27/2012	Time:	6:30 PM
Region:	E2-Se-Nw-Se 24-29s-14w		
Drilling Completed:	1/5/2013	Time:	3:50 AM
Surface Coordinates:	1650' From South Line & 1485' From East Line		
Bottom Hole Coordinates:			
Ground Elevation:	1958.00ft		
K.B. Elevation:	1967.00ft		
Logged Interval:	1900.00ft	To:	4600.00ft
Total Depth:	4650.00ft		
Formation:	Simpson		
Drilling Fluid Type:	Chemical mud was displaced at 2800'		

SURFACE CO-ORDINATES

Well Type:	Vertical		
Longitude:		Latitude:	
N/S Co-ord:	1650' From South Line		
E/W Co-ord:	1485' From East Line		

LOGGED BY

Company:	Joshua R. Austin, Petroleum Geologist		
Address:	732 NE 110th Ave Stafford, KS 67578		
Phone Nbr:	620-546-3960		
Logged By:	Geologist	Name:	Josh Austin

CONTRACTOR

Contractor:	Sterling Drilling Company		
Rig #:	4		
Rig Type:	mud rotary		
Spud Date:	12/27/2012	Time:	6:30 PM
TD Date:	1/5/2013	Time:	3:50 AM
Rig Release:		Time:	

ELEVATIONS

K.B. Elevation: 1967.00ft
K.B. to Ground: 9.00ft
Ground Elevation: 1958.00ft

NOTES

On the basis of the structural position and after reviewing the electric logs, it was recommended by all parties involved in the Andrews 8-24 to run 5 1/2" producing casing for a disposal well. Before plugging, the following zones should be tested; Arbuckle, Simpson Sand, Lansing, Toronto, Topeka.

RAMA Operating Co., Inc.
well comparison sheet

	DRILLING WELL Andrews 8-24				COMPARISON WELL Andrews Unit 2 SW-NE-SE 24-29-14				COMPARISON WELL Andrews 6-24 E2-SE 24-29-14			
	1967 KB				1961 KB		Structural Relationship		1961 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Herington	2122	-155			2105	-144	-11		2112	-151	-4	
Winfield	2182	-215			2163	-202	-13		2172	-211	-4	
Towanda	2244	-277			2225	-264	-13		2237	-276	-1	
Ft. Riley	2294	-327			2272	-311	-16		2292	-331	4	
Cottonwood	2619	-652			2595	-634	-18		2605	-644	-8	
Red Eagle	2751	-784			2726	-765	-19		2739	-778	-6	
Stotler	3052	-1085	3052	-1085	3031	-1070	-15	-15	3040	-1079	-6	-6
Howard	3227	-1260	3228	-1261	3209	-1248	-12	-13	3215	-1254	-6	-7
Topeka	3344	-1377	3345	-1378	3321	-1360	-17	-18	3335	-1374	-3	-4
Heebner	3705	-1738	3704	-1737	3686	-1725	-13	-12	3691	-1730	-8	-7
Toronto	3721	-1754	3722	-1755	3703	-1742	-12	-13	3707	-1746	-8	-9
Douglas	3746	-1779	3744	-1777	3726	-1765	-14	-12	3731	-1770	-9	-7
Brown Lime	3873	-1906	3872	-1905	3845	-1884	-22	-21	3853	-1892	-14	-13
Lansing	3891	-1924	3891	-1924	3860	-1899	-25	-25	3870	-1909	-15	-15
Simpson Shale	4323	-2356	4322	-2355	4298	-2337	-19	-18				
Arbuckle	4355	-2388	4355	-2388	4344	-2383	-5	-5				
Rotary Depth	4650	-2683			4551	-2590			3957	-1996		
Loggers Depth	4650	-2683			4550	-2589			3956	-1995		

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

RAMA Oper. Co. Inc.

101 S. Main St.
Stafford, KS 67578-1429

ATTN: Josh Austin

24-29s.-14w. Pratt Co. KS

Andrews 8-24

Job Ticket: 49712 **DST#: 1**

Test Start: 2012.12.31 @ 19:41:14

GENERAL INFORMATION:

Formation: **Topeka**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 22:35:44
Time Test Ended: 05:39:14

Test Type: Conventional Bottom Hole (Initial)
Tester: Ryan Reynolds
Unit No: 63

Interval: 3334.00 ft (KB) To 3370.00 ft (KB) (TVD)
Total Depth: 3370.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

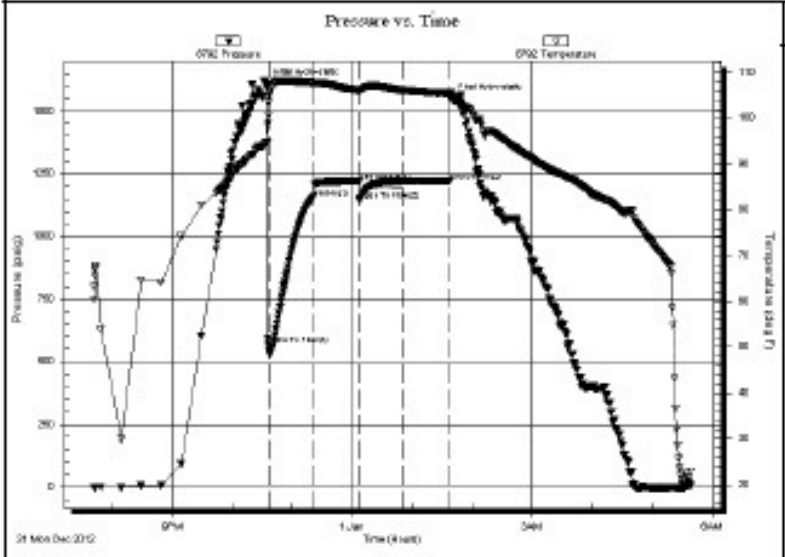
Reference Elevations: 1967.00 ft (KB)
1958.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8792
Press@RunDepth: 1220.07 psig @ ft (KB)

Capacity: 8000.00 psig

Start Date:	2012.12.31	End Date:	2013.01.01	Last Calib.:	2013.01.01
Start Time:	19:41:19	End Time:	05:39:14	Time On Btm:	2012.12.31 @ 22:33:44
				Time Off Btm:	2013.01.01 @ 01:38:14

TEST COMMENT: IF: Strong blow . BOB immed. GTS @ 9min. Guaged gas throughout
ISI: Strong blow . BOB throughout
FF: Strong blow . BOB immed. Guaged gas throughout
FSI: Strong blow . BOB throughout



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1608.23	94.63	Initial Hydro-static
2	568.61	100.76	Open To Flow (1)
47	1153.91	107.74	Shut-In(1)
93	1220.05	106.16	End Shut-In(1)
94	1144.04	106.11	Open To Flow (2)
137	1220.07	106.12	Shut-In(2)
184	1220.72	105.41	End Shut-In(2)
185	1550.19	105.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1690.00	MGCW 5%mud, 5%gas, 90%wtr	21.79
450.00	MGCW 5%mud, 15%gas, 80%wtr	8.31
195.00	GMCW 27%gas, 35%mud, 40%wtr	2.74
130.00	GCM 15%gas, 85%mud	1.82

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	21.00	56.16
Last Gas Rate	0.13	17.00	11.75
Max. Gas Rate	0.25	21.00	56.16

ROCK TYPES

Anhy vert, Cht vari, Dolsec, Gyp, Lmst fw7>, shale, grn, shale, gry, Carbon Sh, shale, red, Ss, Sltst

ACCESSORIES

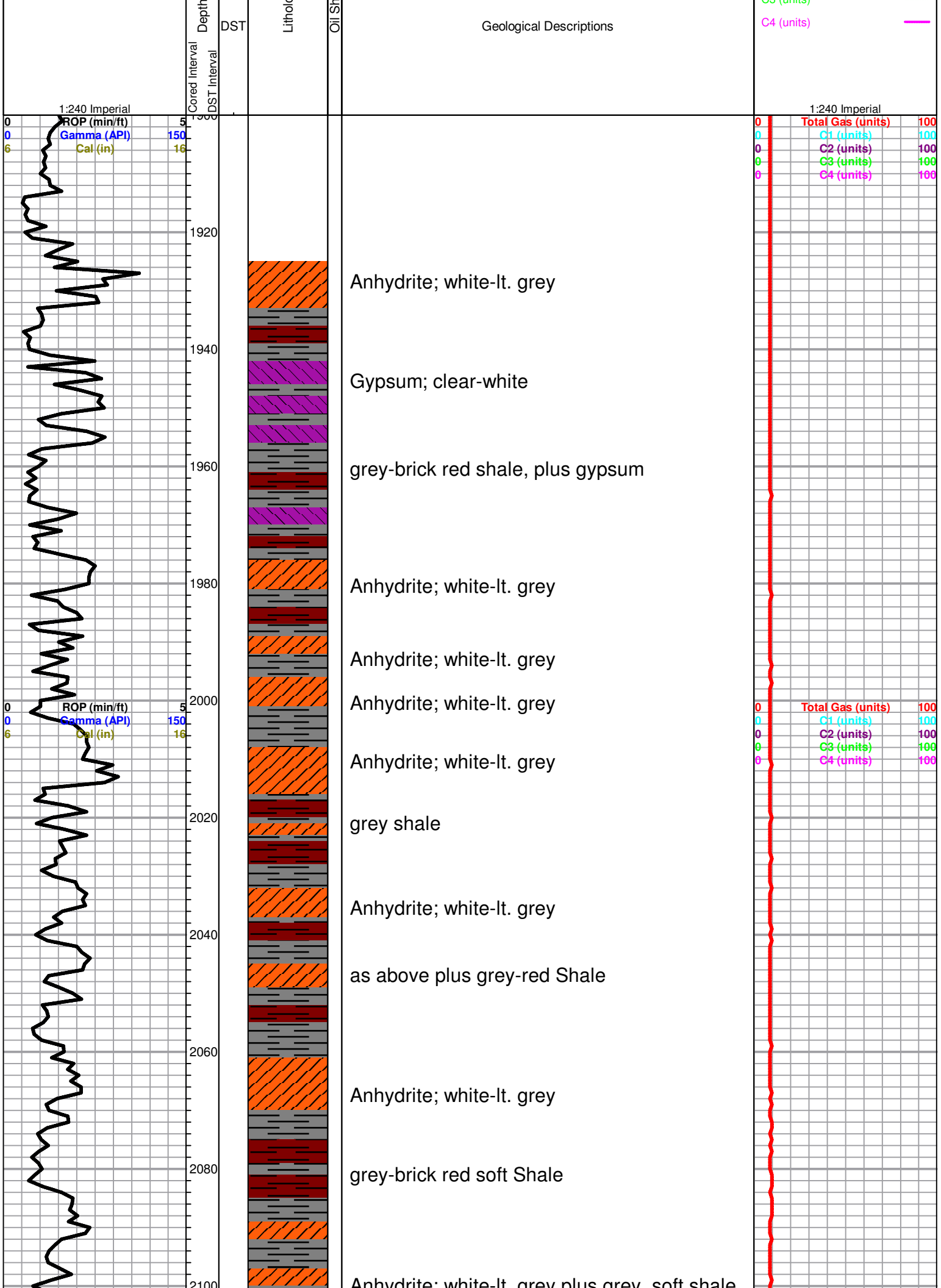
MINERAL
Chert White

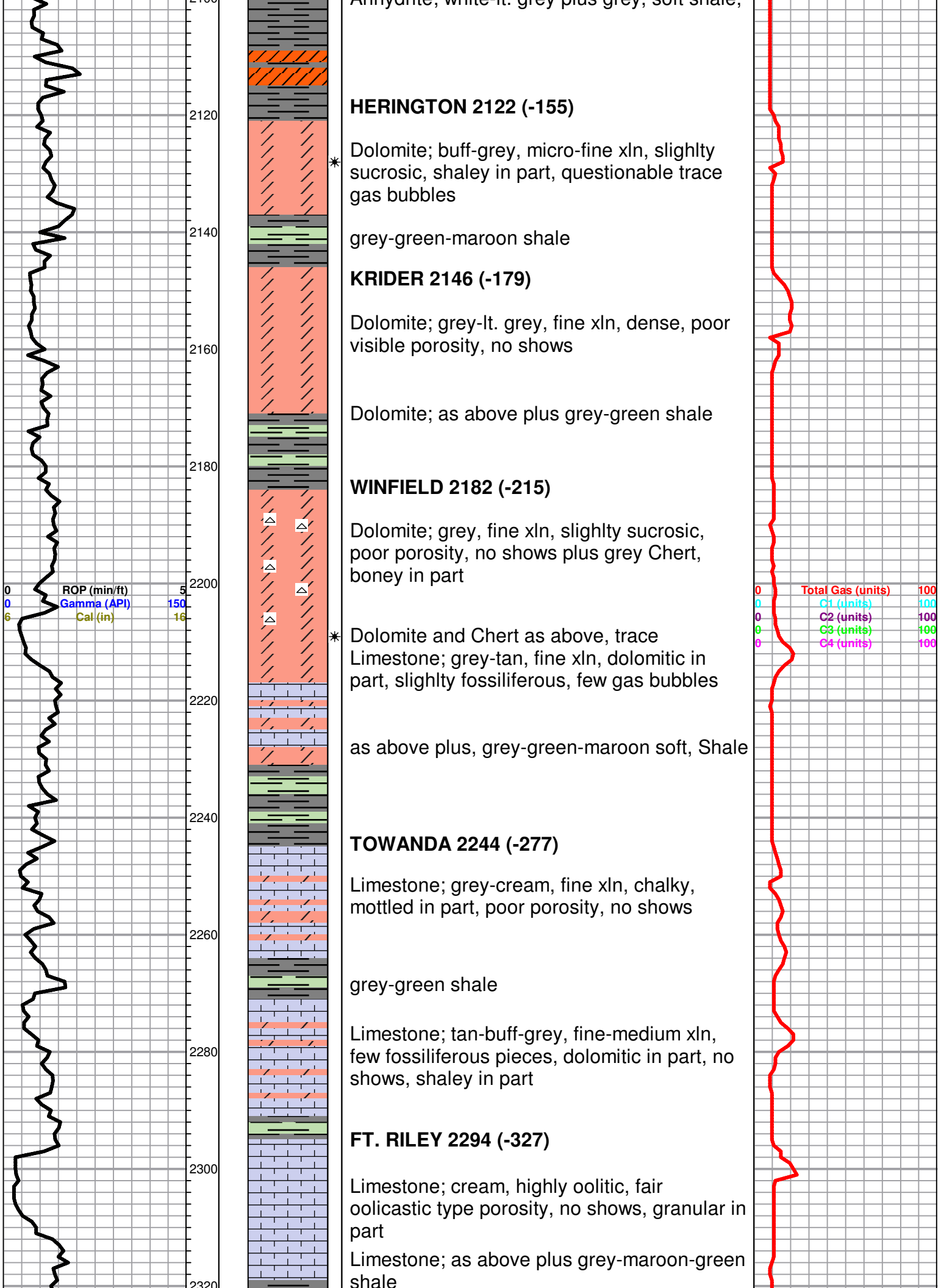
OTHER SYMBOLS

INTERVALS
Core
DST

DST
DST Int
DST alt
Core
tail pipe

Curve Track #1	Intervals		Lithology	Flow		TG, C1 - C5
ROP (min/ft)						Total Gas (units)
Gamma (API)						C1 (units)
Cal (in)						C2 (units)
						C3 (units)


1:240 Imperial
0 ROP (min/ft) 5
0 Gamma (API) 150
6 Cal (in) 16
Depth
Cored Interval
DST Interval
DST
Lithology
Oil Show
Geological Descriptions
C5 (units)
C4 (units)
1:240 Imperial
0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100
1900
1920
1940
1960
1980
2000
2020
2040
2060
2080
2100
Anhydrite; white-lt. grey
Gypsum; clear-white
grey-brick red shale, plus gypsum
Anhydrite; white-lt. grey
Anhydrite; white-lt. grey
Anhydrite; white-lt. grey
Anhydrite; white-lt. grey
grey shale
Anhydrite; white-lt. grey
as above plus grey-red Shale
Anhydrite; white-lt. grey
grey-brick red soft Shale
Anhydrite; white-lt. grey plus grey, soft shale



Anhydrite; white-lt. grey plus grey, soft shale;

HERINGTON 2122 (-155)

Dolomite; buff-grey, micro-fine xln, slighlty sucrosic, shaley in part, questionable trace gas bubbles

grey-green-maroon shale

KRIDER 2146 (-179)

Dolomite; grey-lt. grey, fine xln, dense, poor visible porosity, no shows

Dolomite; as above plus grey-green shale

WINFIELD 2182 (-215)

Dolomite; grey, fine xln, slighlty sucrosic, poor porosity, no shows plus grey Chert, boney in part

Dolomite and Chert as above, trace Limestone; grey-tan, fine xln, dolomitic in part, slighlty fossiliferous, few gas bubbles

as above plus, grey-green-maroon soft, Shale

TOWANDA 2244 (-277)

Limestone; grey-cream, fine xln, chalky, mottled in part, poor porosity, no shows

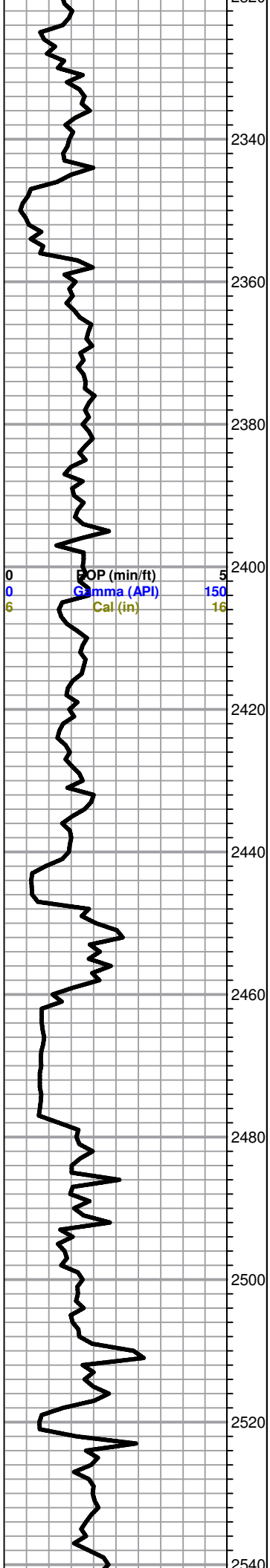
grey-green shale

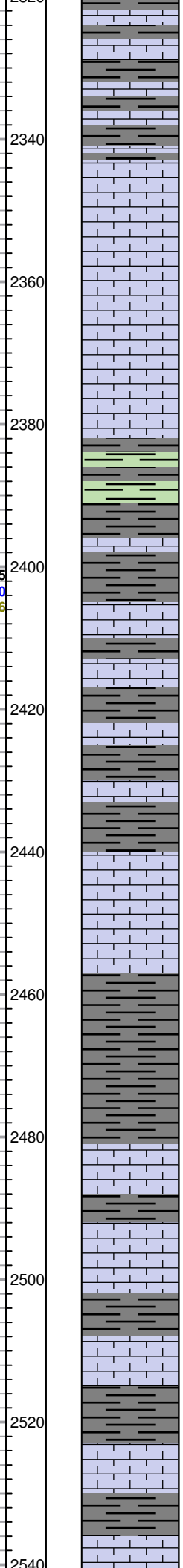
Limestone; tan-buff-grey, fine-medium xln, few fossiliferous pieces, dolomitic in part, no shows, shaley in part

FT. RILEY 2294 (-327)

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

Limestone; as above plus grey-maroon-green shale





Limestone; cream-tan, fossiliferous, chalky, dense, plus grey shale

Limestone; white-cream, fine-medium xln, fossiliferous, chalky, dense, poorly developed porosity, no shows

Limestone; cream, white, chalky, dense, few cherty pieces, no shows

BASE FLORENCE 2389 (-422)

grey-green-maroon, shale

Limestone; lt. grey-white-cream, fine xln, chalky, dense, no shows

Shale and Limestone as above

grey-dark grey shale

WREFORD 2441 (-474)

Limestone; cream-white, fine xln
(Poor Sample)

Shale; grey-maroon-green-brick red

Shale; as above, variety of colors

Limestone; cream-white-lt. grey, fine xln, chalky, dense

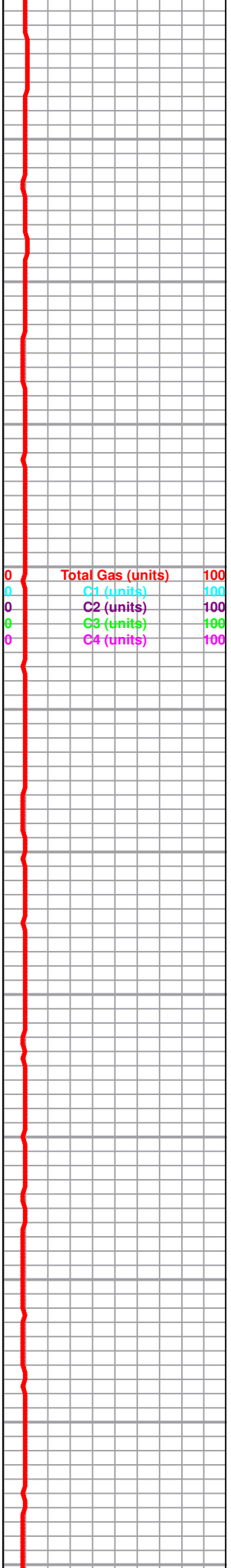
as above

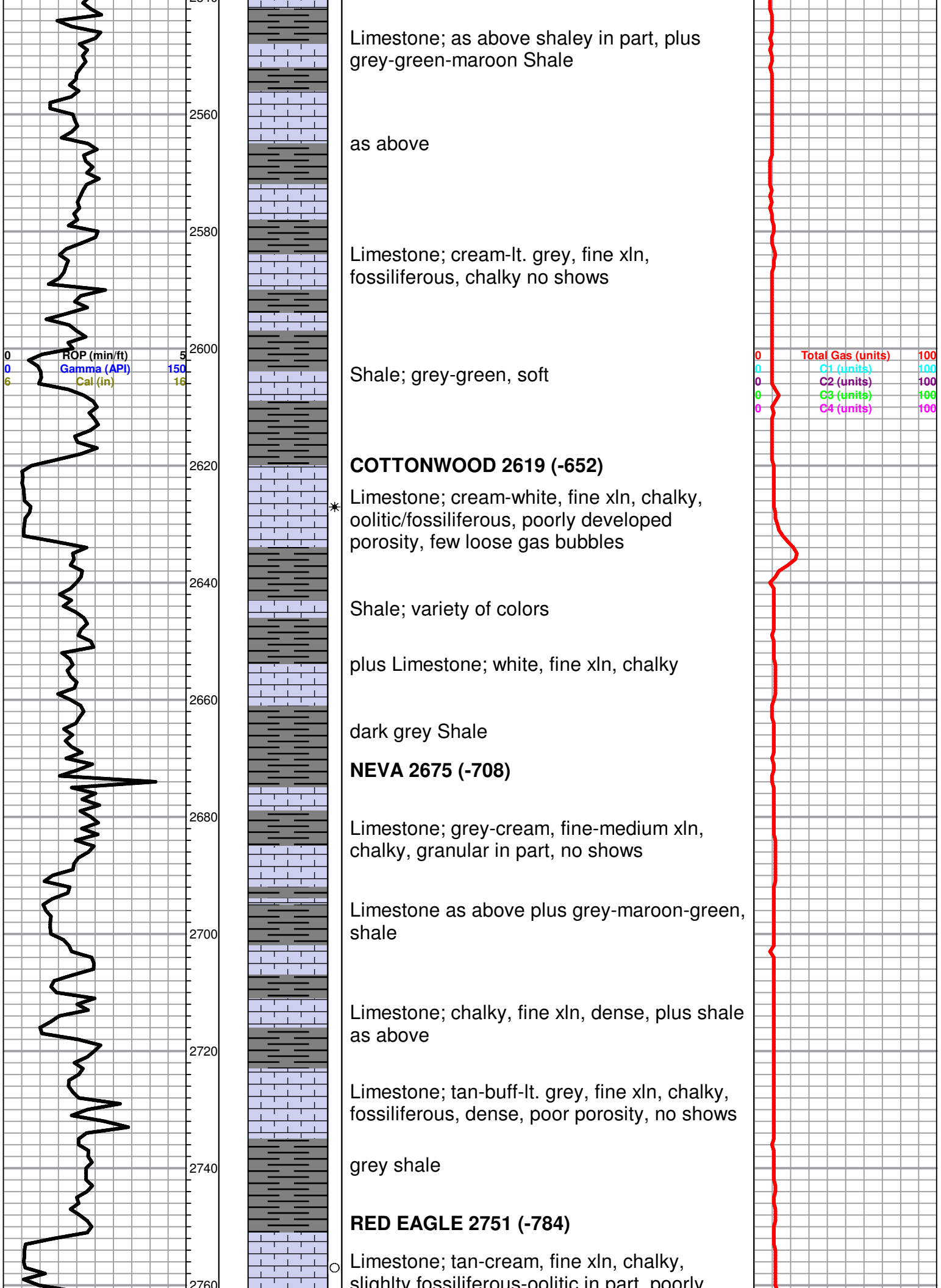
CROUSE

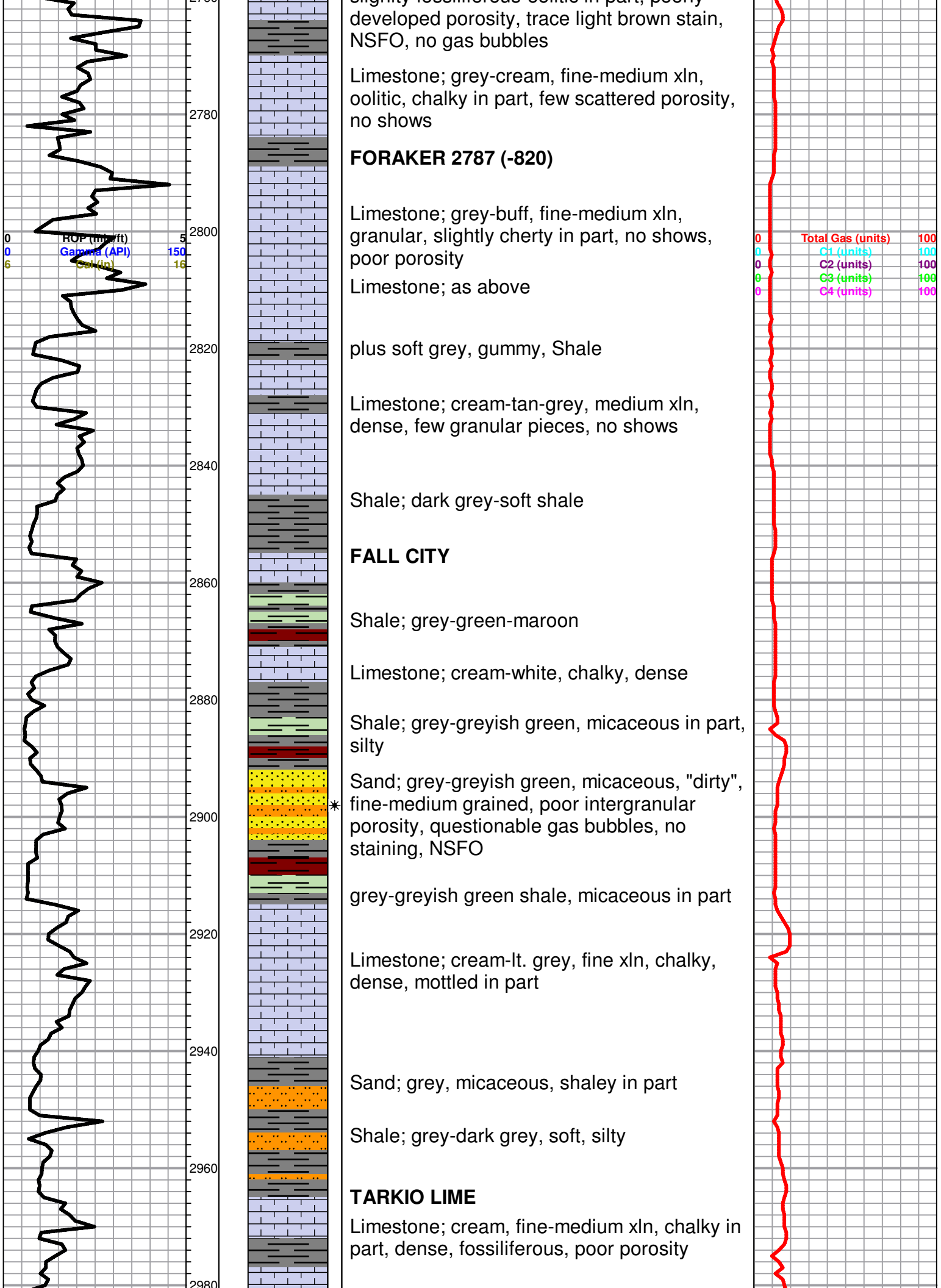
Limestone; grey, slightly fossiliferous, chalky in part, dense

BADER 2523 (-556)

Limestone; grey-buff, fine xln, chalky in part, dense, no shows




0 ROP (min/ft) 5
0 Gamma (API) 150
6 Cal (in) 16
0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100
2560
2580
2600
2620
2640
2660
2680
2700
2720
2740
2760
Limestone; as above shaley in part, plus grey-green-maroon Shale
as above
Limestone; cream-lt. grey, fine xln, fossiliferous, chalky no shows
Shale; grey-green, soft
COTTONWOOD 2619 (-652)
Limestone; cream-white, fine xln, chalky, oolitic/fossiliferous, poorly developed porosity, few loose gas bubbles
Shale; variety of colors
plus Limestone; white, fine xln, chalky
dark grey Shale
NEVA 2675 (-708)
Limestone; grey-cream, fine-medium xln, chalky, granular in part, no shows
Limestone as above plus grey-maroon-green, shale
Limestone; chalky, fine xln, dense, plus shale as above
Limestone; tan-buff-lt. grey, fine xln, chalky, fossiliferous, dense, poor porosity, no shows
grey shale
RED EAGLE 2751 (-784)
Limestone; tan-cream, fine xln, chalky,



developed porosity, trace light brown stain, NSFO, no gas bubbles

Limestone; grey-cream, fine-medium xln, oolitic, chalky in part, few scattered porosity, no shows

FORAKER 2787 (-820)

Limestone; grey-buff, fine-medium xln, granular, slightly cherty in part, no shows, poor porosity

Limestone; as above

plus soft grey, gummy, Shale

Limestone; cream-tan-grey, medium xln, dense, few granular pieces, no shows

Shale; dark grey-soft shale

FALL CITY

Shale; grey-green-maroon

Limestone; cream-white, chalky, dense

Shale; grey-greyish green, micaceous in part, silty

Sand; grey-greyish green, micaceous, "dirty", fine-medium grained, poor intergranular porosity, questionable gas bubbles, no staining, NSFO

grey-greyish green shale, micaceous in part

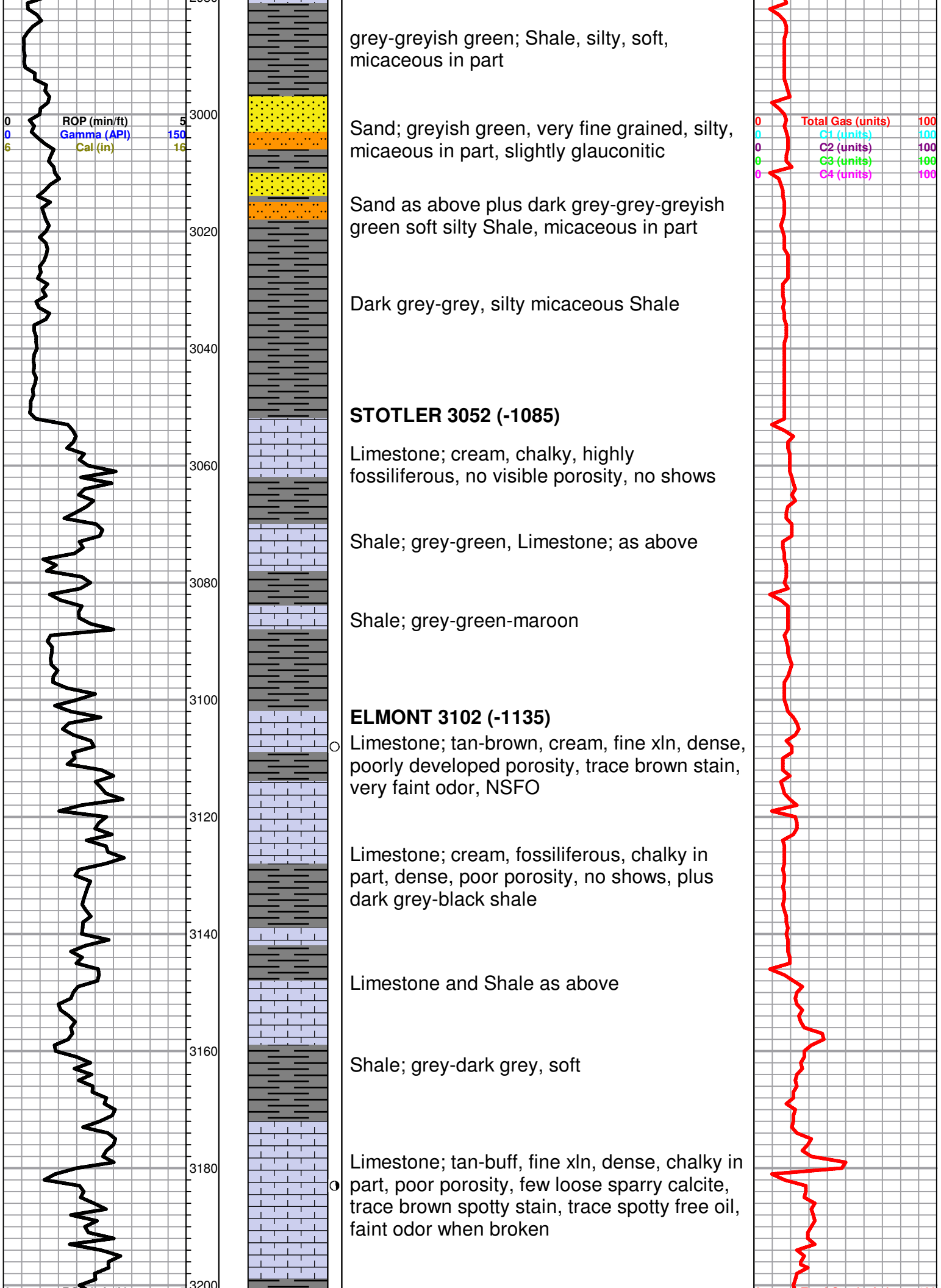
Limestone; cream-lt. grey, fine xln, chalky, dense, mottled in part

Sand; grey, micaceous, shaley in part

Shale; grey-dark grey, soft, silty

TARKIO LIME

Limestone; cream, fine-medium xln, chalky in part, dense, fossiliferous, poor porosity



grey-greyish green; Shale, silty, soft, micaceous in part

Sand; greyish green, very fine grained, silty, micaceous in part, slightly glauconitic

Sand as above plus dark grey-grey-greyish green soft silty Shale, micaceous in part

Dark grey-grey, silty micaceous Shale

STOTLER 3052 (-1085)

Limestone; cream, chalky, highly fossiliferous, no visible porosity, no shows

Shale; grey-green, Limestone; as above

Shale; grey-green-maroon

ELMONT 3102 (-1135)

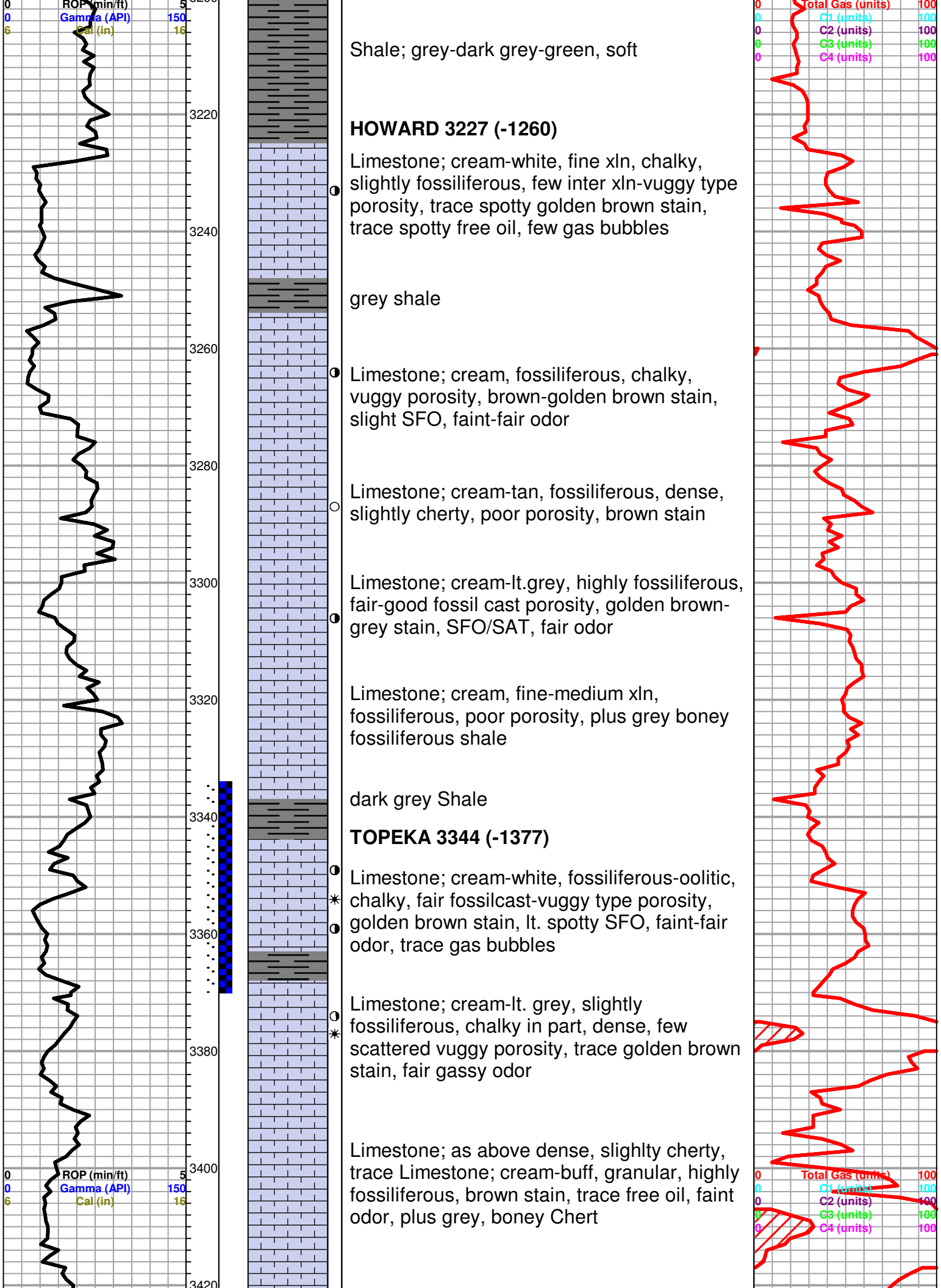
Limestone; tan-brown, cream, fine xln, dense, poorly developed porosity, trace brown stain, very faint odor, NSFO

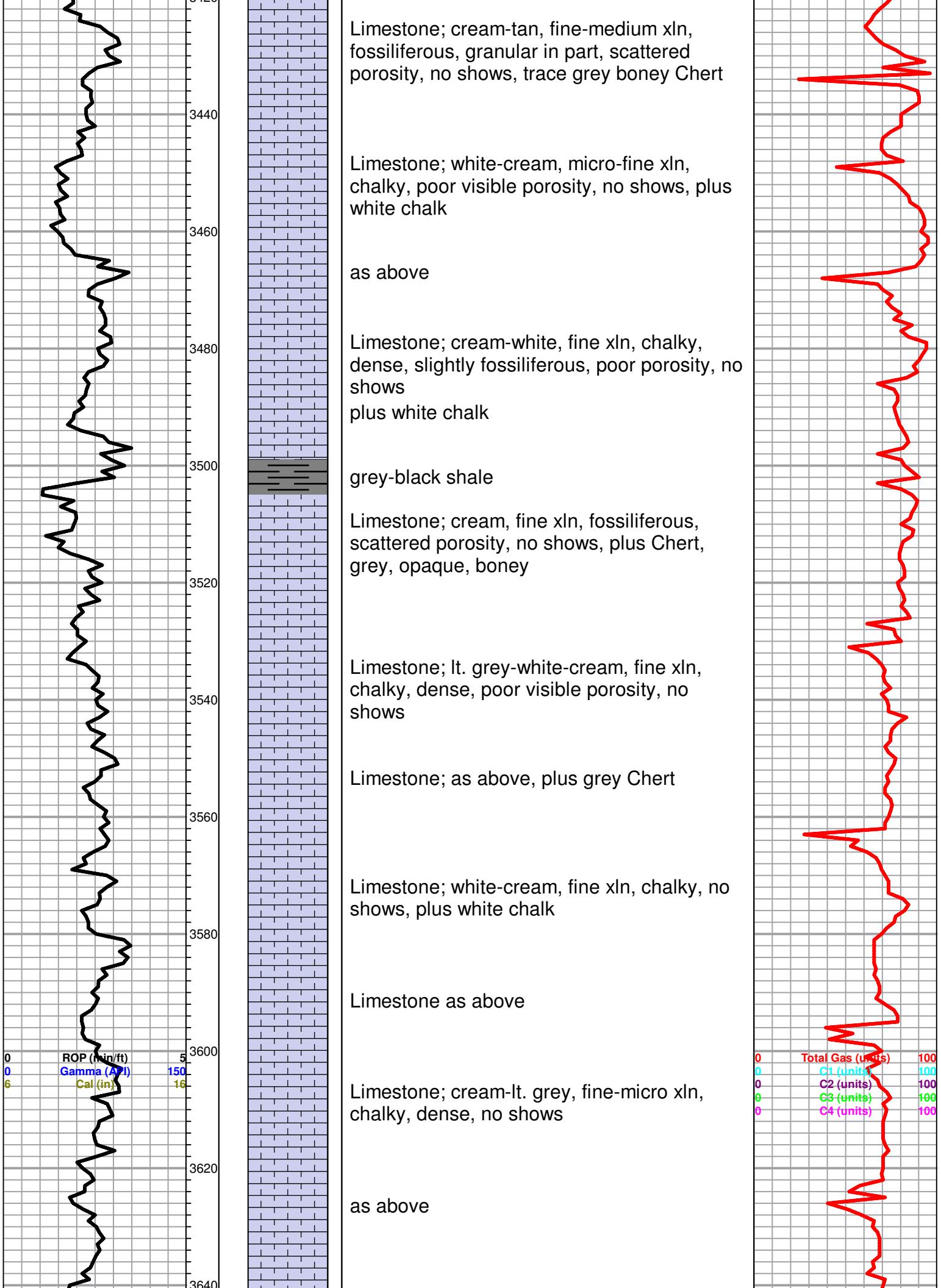
Limestone; cream, fossiliferous, chalky in part, dense, poor porosity, no shows, plus dark grey-black shale

Limestone and Shale as above

Shale; grey-dark grey, soft

Limestone; tan-buff, fine xln, dense, chalky in part, poor porosity, few loose sparry calcite, trace brown spotty stain, trace spotty free oil, faint odor when broken


0 ROP (min/ft) 5
0 Gamma (API) 150
6 Cal (in) 16
3220
3240
3260
3280
3300
3320
3340
3360
3380
3400
3420
0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100
Shale; grey-dark grey-green, soft
HOWARD 3227 (-1260)
Limestone; cream-white, fine xln, chalky, slightly fossiliferous, few inter xln-vuggy type porosity, trace spotty golden brown stain, trace spotty free oil, few gas bubbles
grey shale
Limestone; cream, fossiliferous, chalky, vuggy porosity, brown-golden brown stain, slight SFO, faint-fair odor
Limestone; cream-tan, fossiliferous, dense, slightly cherty, poor porosity, brown stain
Limestone; cream-lt.grey, highly fossiliferous, fair-good fossil cast porosity, golden brown-grey stain, SFO/SAT, fair odor
Limestone; cream, fine-medium xln, fossiliferous, poor porosity, plus grey boney fossiliferous shale
dark grey Shale
TOPEKA 3344 (-1377)
Limestone; cream-white, fossiliferous-oolitic, chalky, fair fossilcast-vuggy type porosity, golden brown stain, lt. spotty SFO, faint-fair odor, trace gas bubbles
Limestone; cream-lt. grey, slightly fossiliferous, chalky in part, dense, few scattered vuggy porosity, trace golden brown stain, fair gassy odor
Limestone; as above dense, slighlty cherty, trace Limestone; cream-buff, granular, highly fossiliferous, brown stain, trace free oil, faint odor, plus grey, boney Chert



Limestone; cream-tan, fine-medium xln, fossiliferous, granular in part, scattered porosity, no shows, trace grey boney Chert

Limestone; white-cream, micro-fine xln, chalky, poor visible porosity, no shows, plus white chalk

as above

Limestone; cream-white, fine xln, chalky, dense, slightly fossiliferous, poor porosity, no shows
plus white chalk

grey-black shale

Limestone; cream, fine xln, fossiliferous, scattered porosity, no shows, plus Chert, grey, opaque, boney

Limestone; lt. grey-white-cream, fine xln, chalky, dense, poor visible porosity, no shows

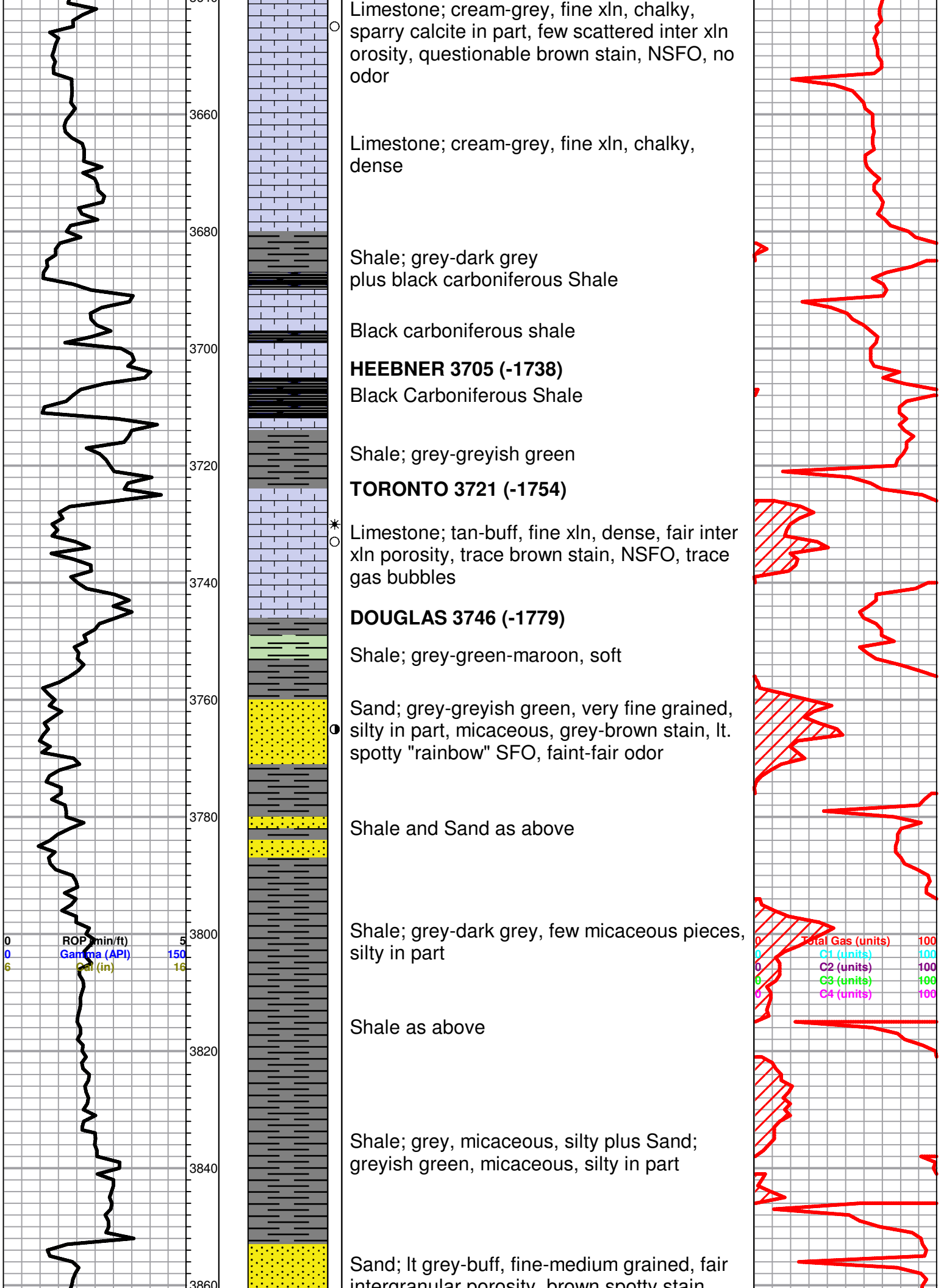
Limestone; as above, plus grey Chert

Limestone; white-cream, fine xln, chalky, no shows, plus white chalk

Limestone as above

Limestone; cream-lt. grey, fine-micro xln, chalky, dense, no shows

as above



Limestone; cream-grey, fine xln, chalky, sparry calcite in part, few scattered inter xln orosity, questionable brown stain, NSFO, no odor

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

Shale; grey-dark grey
plus black carboniferous Shale

Black carboniferous shale

HEEBNER 3705 (-1738)
Black Carboniferous Shale

Shale; grey-greyish green

TORONTO 3721 (-1754)

Limestone; tan-buff, fine xln, dense, fair inter xln porosity, trace brown stain, NSFO, trace gas bubbles

DOUGLAS 3746 (-1779)

Shale; grey-green-maroon, soft

Sand; grey-greyish green, very fine grained, silty in part, micaceous, grey-brown stain, lt. spotty "rainbow" SFO, faint-fair odor

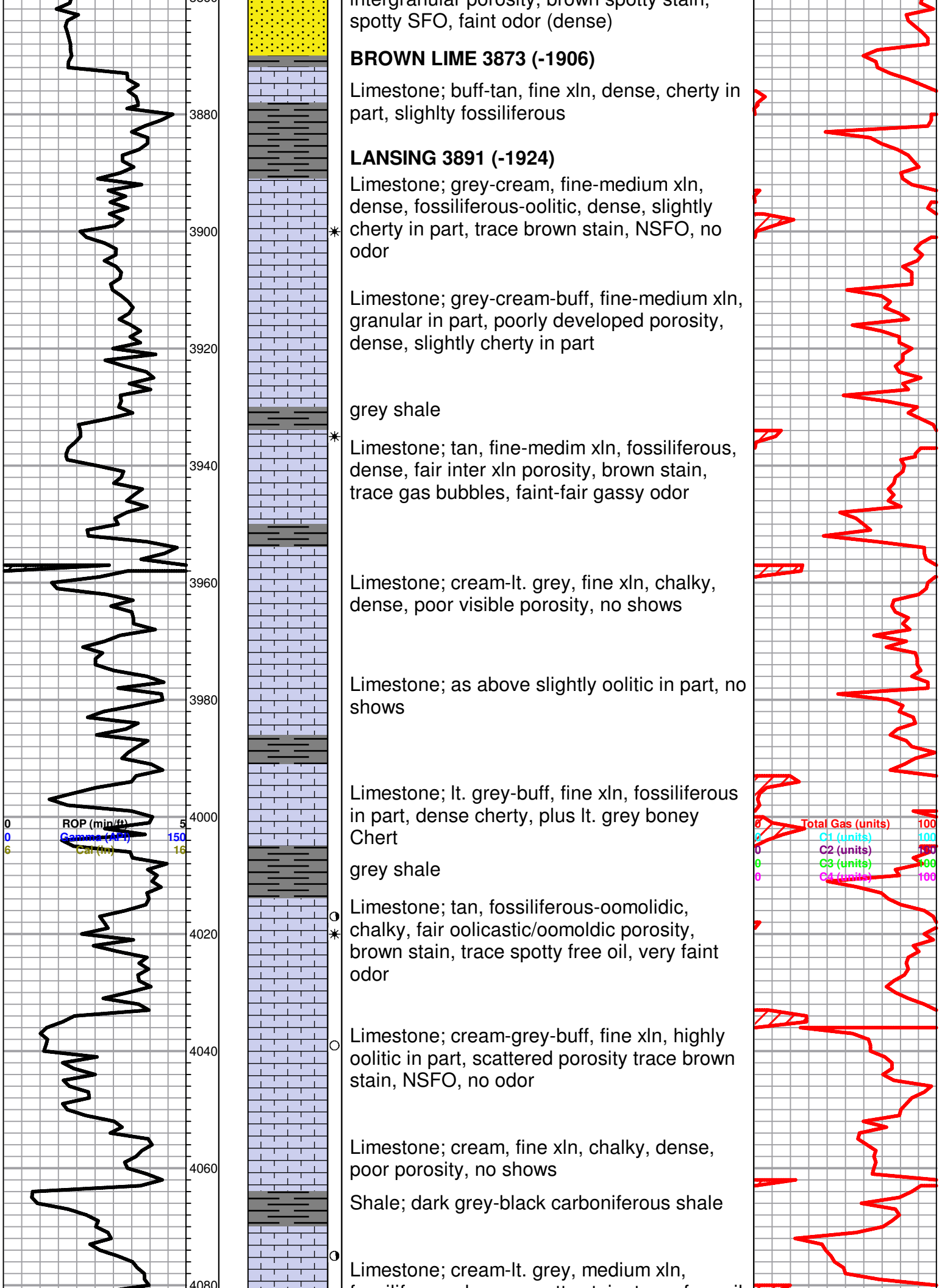
Shale and Sand as above

Shale; grey-dark grey, few micaceous pieces, silty in part

Shale as above

Shale; grey, micaceous, silty plus Sand; greyish green, micaceous, silty in part

Sand; lt grey-buff, fine-medium grained, fair intergranular porosity, brown spotty stain



intergranular porosity, brown spotty stain, spotty SFO, faint odor (dense)

BROWN LIME 3873 (-1906)

Limestone; buff-tan, fine xln, dense, cherty in part, slighlty fossiliferous

LANSING 3891 (-1924)

Limestone; grey-cream, fine-medium xln, dense, fossiliferous-oolitic, dense, slightly cherty in part, trace brown stain, NSFO, no odor

Limestone; grey-cream-buff, fine-medium xln, granular in part, poorly developed porosity, dense, slightly cherty in part

grey shale

Limestone; tan, fine-medim xln, fossiliferous, dense, fair inter xln porosity, brown stain, trace gas bubbles, faint-fair gassy odor

Limestone; cream-lt. grey, fine xln, chalky, dense, poor visible porosity, no shows

Limestone; as above slightly oolitic in part, no shows

Limestone; lt. grey-buff, fine xln, fossiliferous in part, dense cherty, plus lt. grey boney Chert

grey shale

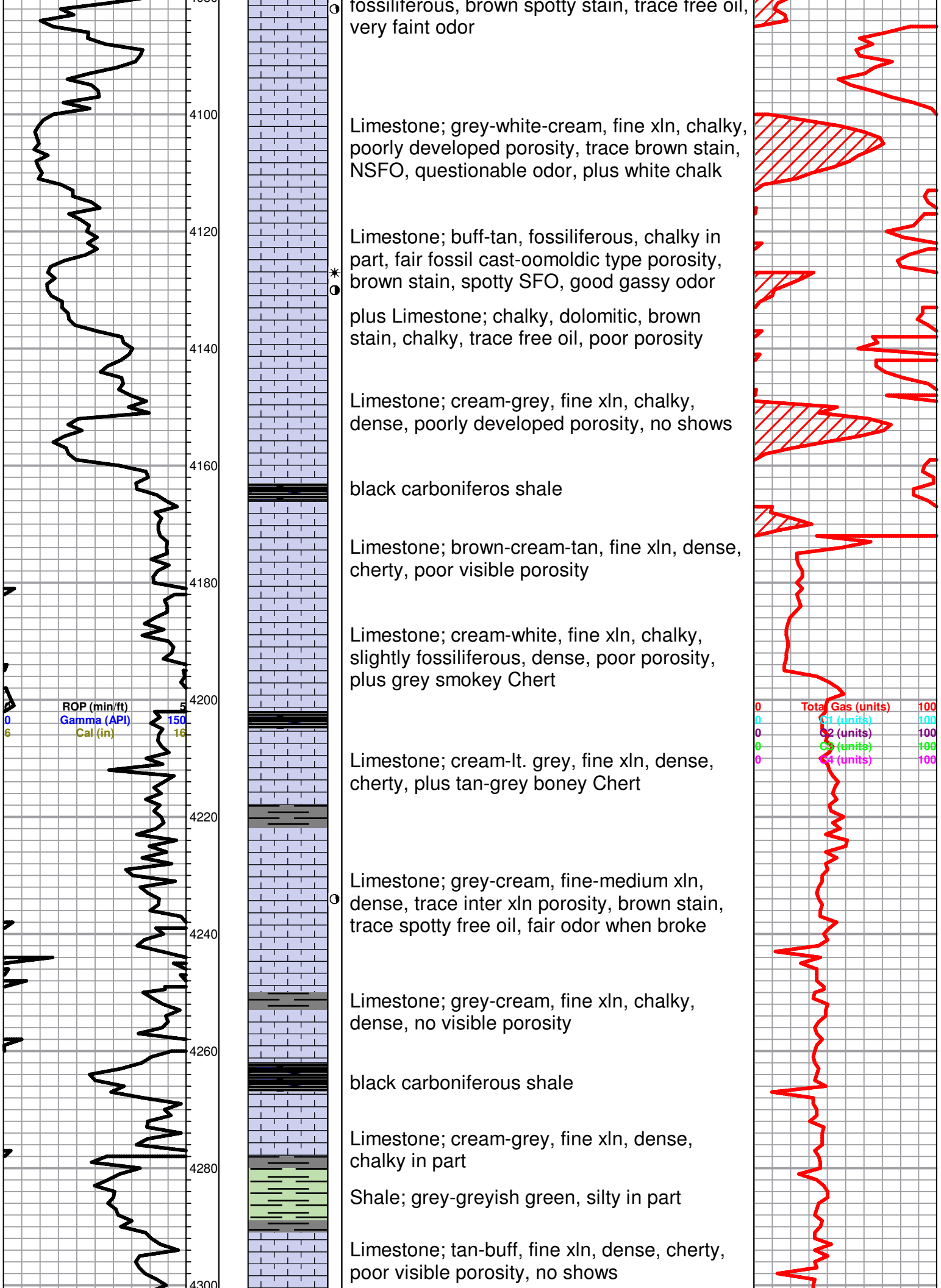
Limestone; tan, fossiliferous-oomolidic, chalky, fair oolicastic/oomoldic porosity, brown stain, trace spotty free oil, very faint odor

Limestone; cream-grey-buff, fine xln, highly oolitic in part, scattered porosity trace brown stain, NSFO, no odor

Limestone; cream, fine xln, chalky, dense, poor porosity, no shows

Shale; dark grey-black carboniferous shale

Limestone; cream-lt. grey, medium xln,



fossiliferous, brown spotty stain, trace free oil, very faint odor

Limestone; grey-white-cream, fine xln, chalky, poorly developed porosity, trace brown stain, NSFO, questionable odor, plus white chalk

Limestone; buff-tan, fossiliferous, chalky in part, fair fossil cast-oomoldic type porosity, brown stain, spotty SFO, good gassy odor

plus Limestone; chalky, dolomitic, brown stain, chalky, trace free oil, poor porosity

Limestone; cream-grey, fine xln, chalky, dense, poorly developed porosity, no shows

black carboniferos shale

Limestone; brown-cream-tan, fine xln, dense, cherty, poor visible porosity

Limestone; cream-white, fine xln, chalky, slightly fossiliferous, dense, poor porosity, plus grey smokey Chert

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

Limestone; grey-cream, fine-medium xln, dense, trace inter xln porosity, brown stain, trace spotty free oil, fair odor when broke

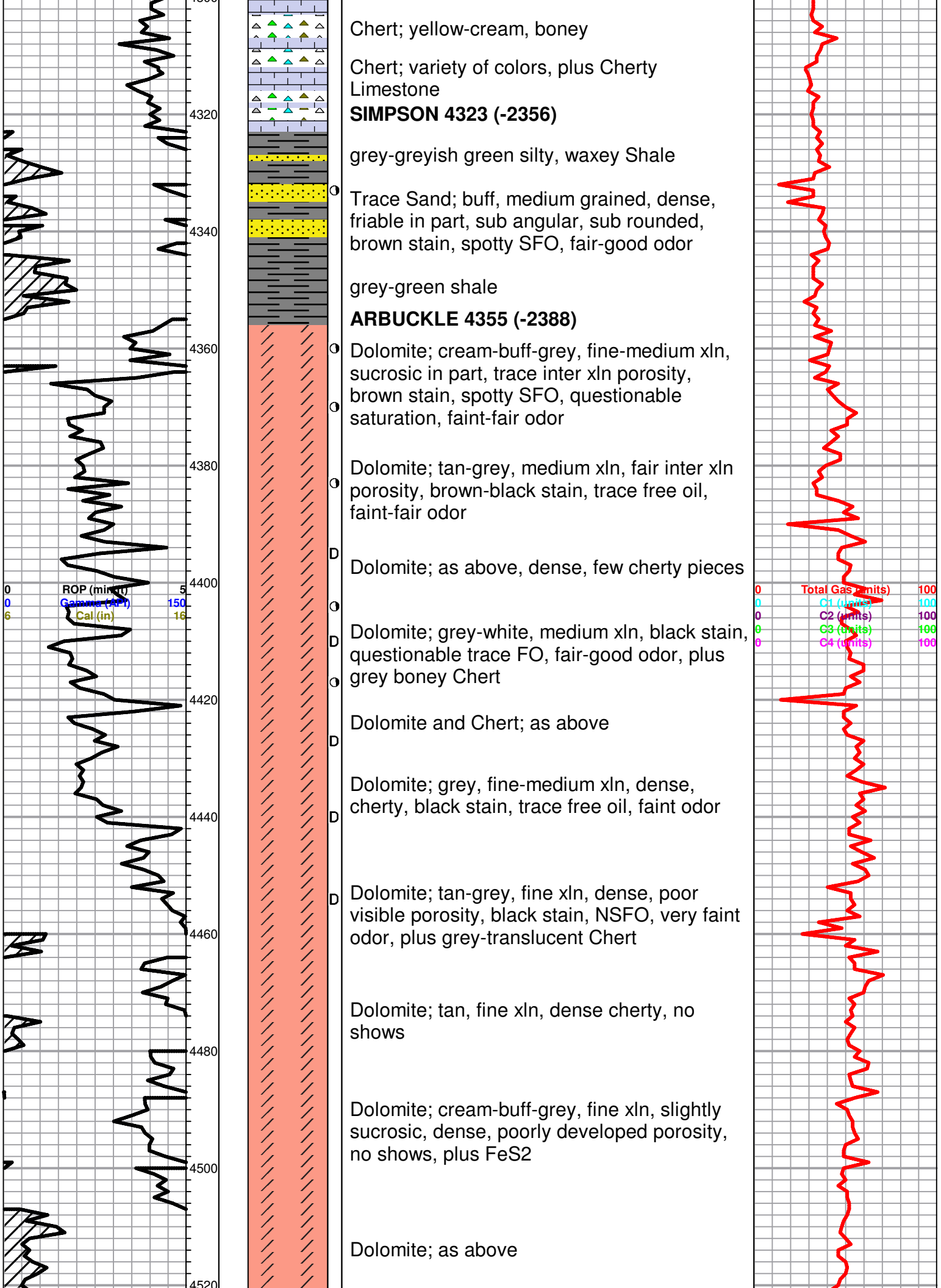
Limestone; grey-cream, fine xln, chalky, dense, no visible porosity

black carboniferous shale

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

Shale; grey-greyish green, silty in part

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



Chert; yellow-cream, boney

Chert; variety of colors, plus Cherty Limestone

SIMPSON 4323 (-2356)

grey-greyish green silty, waxey Shale

Trace Sand; buff, medium grained, dense, friable in part, sub angular, sub rounded, brown stain, spotty SFO, fair-good odor

grey-green shale

ARBUCKLE 4355 (-2388)

Dolomite; cream-buff-grey, fine-medium xln, sucrosic in part, trace inter xln porosity, brown stain, spotty SFO, questionable saturation, faint-fair odor

Dolomite; tan-grey, medium xln, fair inter xln porosity, brown-black stain, trace free oil, faint-fair odor

Dolomite; as above, dense, few cherty pieces

Dolomite; grey-white, medium xln, black stain, questionable trace FO, fair-good odor, plus grey boney Chert

Dolomite and Chert; as above

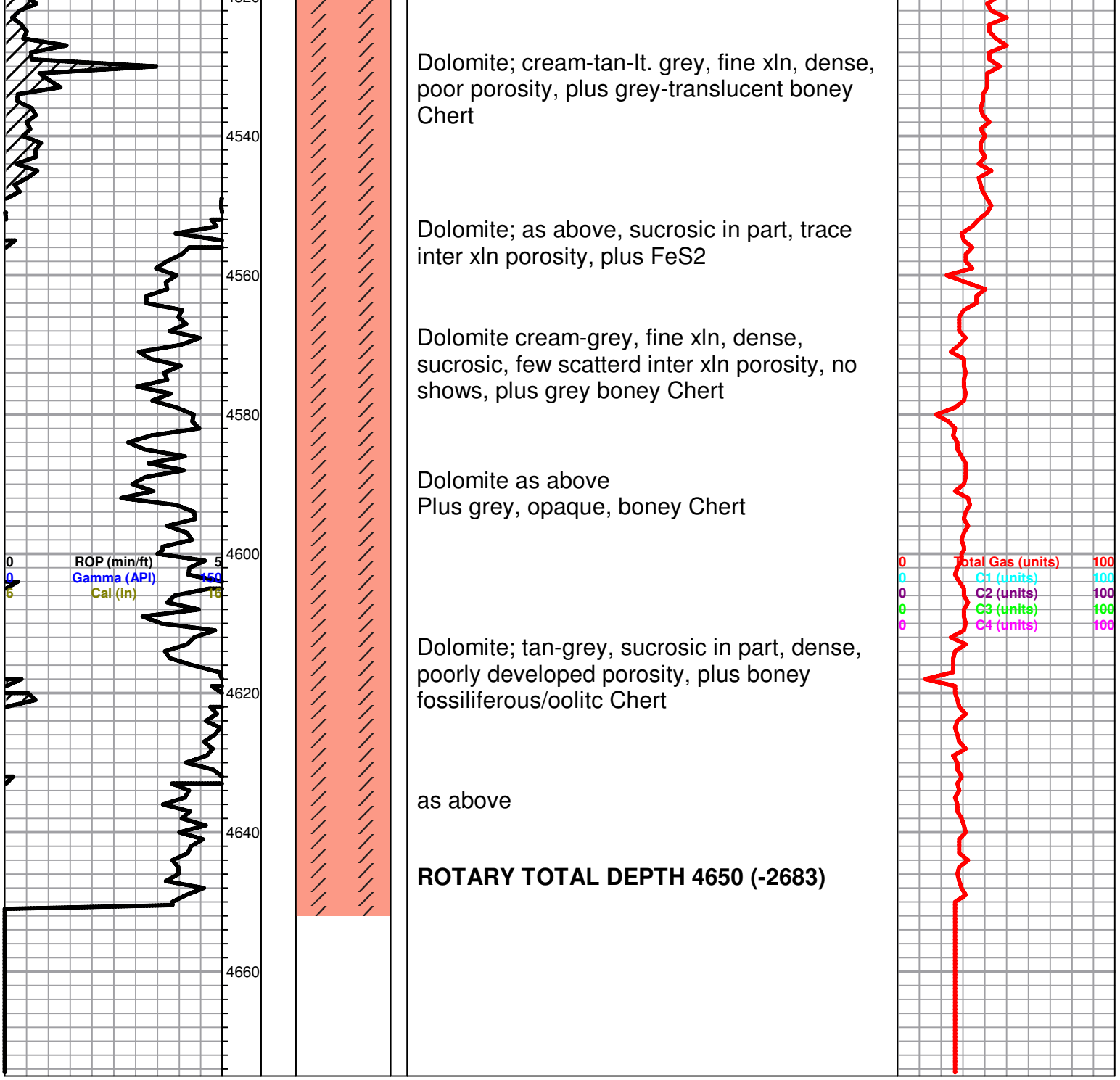
Dolomite; grey, fine-medium xln, dense, cherty, black stain, trace free oil, faint odor

Dolomite; tan-grey, fine xln, dense, poor visible porosity, black stain, NSFO, very faint odor, plus grey-translucent Chert

Dolomite; tan, fine xln, dense cherty, no shows

Dolomite; cream-buff-grey, fine xln, slightly sucrosic, dense, poorly developed porosity, no shows, plus FeS2

Dolomite; as above



Dolomite; cream-tan-lt. grey, fine xln, dense, poor porosity, plus grey-translucent boney Chert

Dolomite; as above, sucrosic in part, trace inter xln porosity, plus FeS2

Dolomite cream-grey, fine xln, dense, sucrosic, few scatterd inter xln porosity, no shows, plus grey boney Chert

Dolomite as above
Plus grey, opaque, boney Chert

Dolomite; tan-grey, sucrosic in part, dense, poorly developed porosity, plus boney fossiliferous/oolitc Chert

as above

ROTARY TOTAL DEPTH 4650 (-2683)

BASIC energy services, L.P.

TREATMENT REPORT

Customer: RAMA Oper. Co. LLC	Lease No.	Date: 1-5-13	
Lease: ANDrews	Well #: # 8-24		
Field Order #: 22997	Station: Pratt	Casing: 5 1/2"	Depth: 4427'
County: Pratt	State: KS		
Type Job: 5 1/2" L.S. w/PKR. Shoe	Formation: 4450' TD	Legal Description: 34-29-14	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size: 5 1/2	Tubing Size	Shots/Ft	200 sks AA2 @ 15#	Acid	RATE	PRESS	ISIP
Depth: 4427	Depth	From	To	Pre Pad	Max		5 Min.
Volume: 108 BBl	Volume	From	To R.H.	Pad 30 sks	Min AA2		10 Min.
Max Press: 1500 #	Max Press	From	To M.H	Frac 20 sks	Avg AA2		15 Min.
Well Connection: PC	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth: 4416	Packer Depth	From	To	Flush H.S.P. H20	Gas Volume		Total Load

Customer Representative: Randy | Station Manager: Scotty | Treater: Allen

Service Units	25443	19903	19905	19831	19862						
Driver Names	Allen	mike	mathal	Jessie	Pierce						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1400 pm					on Loc. Discuss Saf. Set, Setup, Plan Job
					Rig up To Run 5 1/2" csg 14#
300					start 5 1/2" casing shoe Joint 11"
					w/ PKR Shoe, + Latch down BAFFle
					in Collar, cent, 4-8-12-18-22
300					PKR Shoe @ 4427 CiR w/ Rig
518	1400#				set PKR Shoe - good CiR
	200#		5	5	Pump 5 BBls H20 spacer
			12	5	Pump 12 BBls mud Flush
			5	5	Pump 5 BBls H20 spacer
				5	mix + Pump 200-sks AA2 @ 15#
			51		Finish mix, wash out Pump + Line
623				6 1/2	Drop L.D. Plug. Start Disp.
	700#			6	Caught Lift PSI w/ 77 BBL out
640	1500#		108	4	Plug down - Release OK
			7		Plug R.H. w/ 30sks AA2
			5		Plug M.H w/ 20sks AA2
					wash up Equip
900					Job complete
					+ hanks
					Allen, Mike
					Jessie

Taylor Printing, Inc. 620-672-3656

BASIC energy services, L.P.

TREATMENT REPORT

Customer: RAMA - OPERATING	Lease No.		Date: 12-28-12
Lease: ANDREWS	Well #: 8-24		
Field Order #: 7424	Station: PRATT KS	Casing: 8 5/8	Depth: 308'
County: PRATT	State: KS		
Type Job: CNW 8 5/8	Formation		Legal Description: 24-29-14

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size: 8 5/8	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth: 308	Depth	From	To	Pre Pad	Max		5 Min.
Volume: 18.5	Volume	From	To	Pad	Min		10 Min.
Max Press: 300	Max Press	From	To	Frac	Avg		15 Min.
Well Connection: P.C	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth: 292	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative | Station Manager: DAVE Scott | Treater: Robert Sullivan

Service Units	37900	33708	20870	19831	19862						
Driver Names	Sullivan	WRIGHT		Calloway							

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
10:15					ON Loc Safty meety
					Run 7 Jts 8 5/8 csg.
2:40					CASING ON BOTTOM
2:50					Hook Rig circ
3:00	250			4.5	mix cmt 300 sk 60/40 poz cmt 3% cc 1/4 cf
			64		cmt mixed shut down
					Release Plug
				4	St Disp
3:30			18		Plug down
					cmt cellar full.
					JOB Complete
					Thank You

10244 NE Hiway 61 • P.O. Box 8613 • Pratt, KS 67124-8613 • (620) 672-1201 • Fax (620) 672-5383

Taylor Printing, Inc. 620-672-3656

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

Phone: 316-337-6200
Fax: 316-337-6211
http://kcc.ks.gov/

April 01, 2013

Robin L. Austin
Rama Operating Co., Inc.
101 S MAIN ST
STAFFORD, KS 67578-1429

Re: ACO1
API 15-151-22405-00-00
Andrews 8-24
SE/4 Sec.24-29S-14W
Pratt County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Robin L. Austin