



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1096096  
OIL & GAS CONSERVATION DIVISION

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 # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

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 #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ 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: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

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: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1096096

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> 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 <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Rama Operating Co., Inc.
Well Name	Debes 1-5
Doc ID	1096096

Tops

Name	Top	Datum
Anydrite	868	+1064
Heebner	3250	-1318
Toronto	6262	-1330
Douglas	3281	-1349
Brown Lime	3353	-1421
Lansing	3366	-1434
Viola	3643	-1711
Arbuckle	3717	-1785
TD	3764	-1832

**OPERATOR**

Company: RAMA Operating Co., Inc.  
 Address: P.O. Box 159  
 Stafford, Kansas 67578

Contact Geologist:  
 Contact Phone Nbr:

Well Name: Debes 1-5  
 Location: 8 5/8" @ 883'

Pool:  
 State: Kansas, Stafford County

API: 15-185-23765-00-00  
 Field: Keeley  
 Country: USA



# Joshua R. Austin

## Petroleum Geologist

report for

### RAMA Operating CO., Inc



Scale 1:240 Imperial

Well Name: Debes 1-5  
 Surface Location: 8 5/8" @ 883'  
 Bottom Location:  
 API: 15-185-23765-00-00  
 License Number:  
 Spud Date: 9/24/2012 Time: 3:34 PM  
 Region: Sw-Nw-Sw 5-21s-14w  
 Drilling Completed: 9/29/2012 Time: 10:50 PM  
 Surface Coordinates: 1650' From South line & 330' From West Line  
 Bottom Hole Coordinates:  
 Ground Elevation: 1923.00ft  
 K.B. Elevation: 1932.00ft  
 Logged Interval: 1700.00ft To: 3764.00ft  
 Total Depth: 3764.00ft  
 Formation: Arbuckle  
 Drilling Fluid Type: Chemical mud was displaced at 2685'

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude: Latitude:  
 N/S Co-ord: 1650' From South line  
 E/W Co-ord: 330' From West Line

**LOGGED BY**

Company:  
 Address:

Phone Nbr:  
 Logged By: Geologist

Name: Josh Austin

**CONTRACTOR**

Contractor: Sterling Drilling  
 Rig #: 4

Rig Type: mud rotary  
 Spud Date: 9/24/2012  
 TD Date: 9/29/2012

Rig Release:

Time: 3:34 PM  
 Time: 10:50 PM  
 Time:

### ELEVATIONS

K.B. Elevation: 1932.00ft  
K.B. to Ground: 9.00ft

Ground Elevation: 1923.00ft

### NOTES

On the basis of the poor structural position in the Arbuckle compared to the offset wells, lack of free oil shows and no gas kicks, it was recommended by all parties involved that the Debes 1-5 be plugged and abandoned at the rotary total depth 3764'

- \* No Electric Logs
- \* No Drill Stem Test

# RAMA Operating Co., Inc. well comparison sheet

	DRILLING WELL				COMPARISON WELL				COMPARISON WELL			
	Debes 1-5				Keely NW-NW-SW 5-21-14				Frey B 2 SW-NE-SE 6-21-14			
	1932 KB				1927 KB		Structural Relationship		1926 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Heebner	3250	-1318	N/A	N/A	3244	-1317	-1	N/A	3245	-1319	1	N/A
Toronto	3262	-1330	N/A	N/A				N/A				N/A
Douglas	3281	-1349	N/A	N/A				N/A				N/A
Brown Lime	3353	-1421	N/A	N/A	3346	-1419	-2	N/A	3345	-1419	-2	N/A
Lansing	3366	-1434	N/A	N/A	3355	-1428	-6	N/A	3356	-1430	-4	N/A
Viola	3643	-1711	N/A	N/A	3608	-1681	-30	N/A	3604	-1678	-33	N/A
Simpson	3664	-1732	N/A	N/A	3640	-1713	-19	N/A	3640	-1714	-18	N/A
Arbuckle	3717	-1785	N/A	N/A	3684	-1757	-28	N/A	3683	-1757	-28	N/A
Total Depth	3764	-1832	N/A	N/A	3715	-1788		N/A	3702	-1776		N/A

### ROCK TYPES

	Anhy vert		Congl		Lmst fw7>		Carbon Sh		Stlst
	Cht		Dolprim		shale, grn		shale, red		Ss
	Clystgy		Dolsec		shale, gry				

### ACCESSORIES

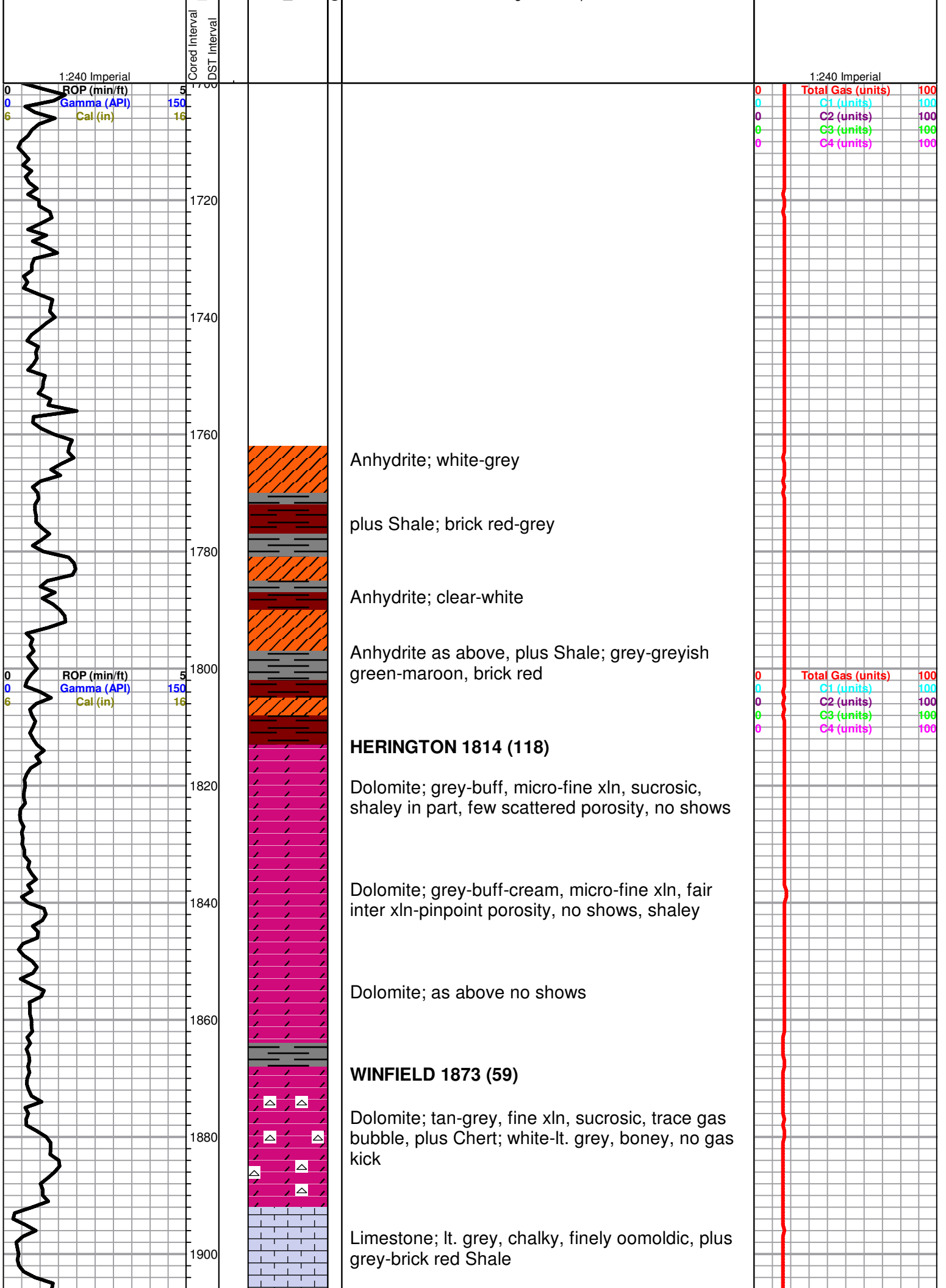
**MINERAL**  
△ Chert White

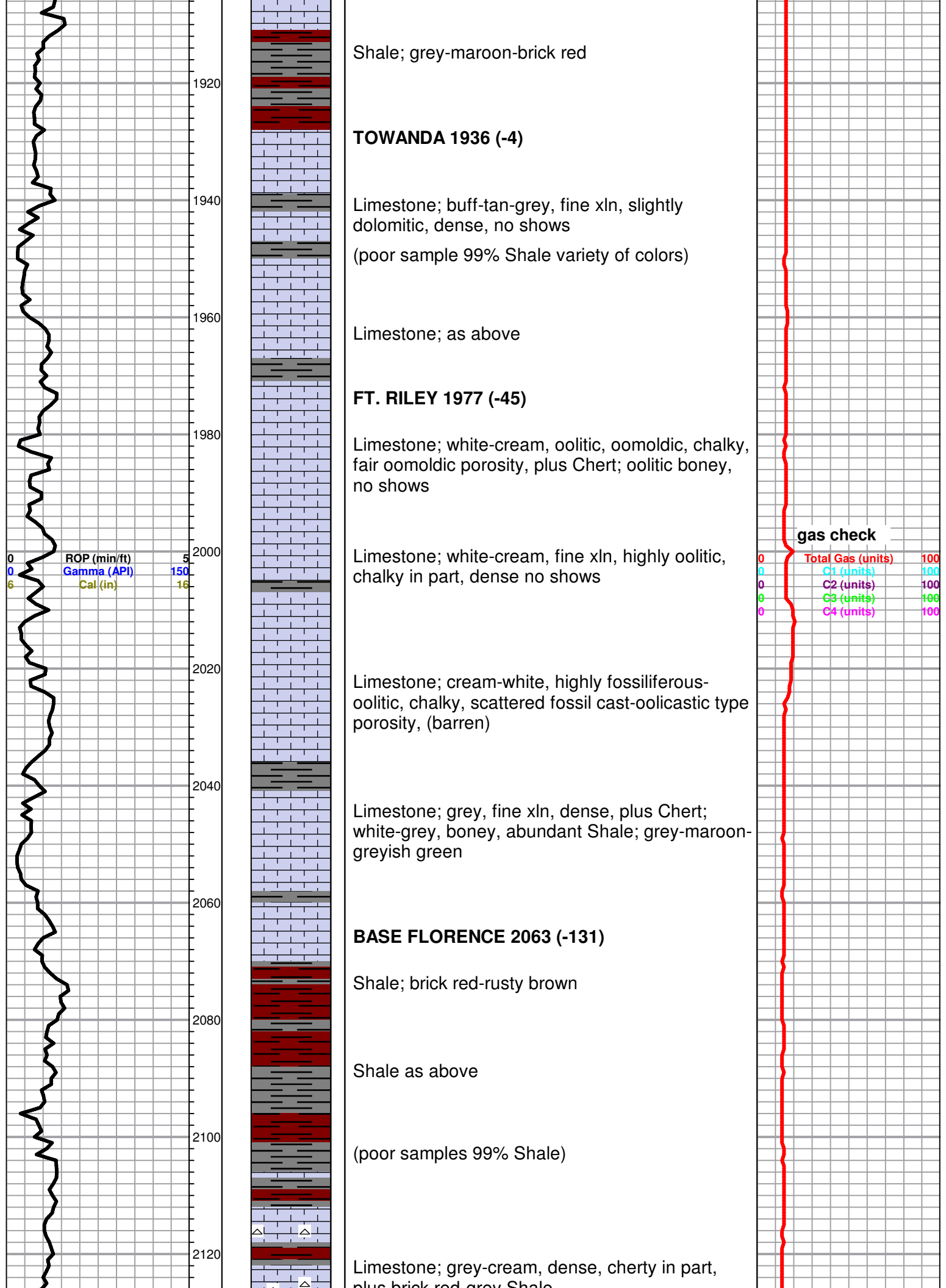
### OTHER SYMBOLS

**DST**  
 DST Int  
 DST alt  
 Core  
 tail pipe

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

Curve Track #1	Depth   Intervals	DST	Lithology	Oil Show	Geological Descriptions	TG, C1 - C5
ROP (min/ft)						Total Gas (units)
Gamma (API)						C1 (units)
Cal (in)						C2 (units)
						C3 (units)
						C4 (units)





plus black red-grey shale

2140  
2160  
2180  
2200  
2220  
2240  
2260  
2280  
2300  
2320  
2340

**COUNCIL GROVE 2144 (-212)**

Shale; grey-green-maroon, soft

Limestone; cream-lt. grey, fine xln, chalky, fossiliferous, few scattered porosity, no shows

Limestone; cream-grey, highly fossiliferous, chalky, fair-good fossil cast type porosity, no shows

Limestone; as above

Shale; grey-maroon-rusty brown, soft

**COTTONWOOD 2251 (-319)**

Limestone; white-cream, fine xln, chalky, fossiliferous, scattered fossil cast-oomoldic type porosity, no shows

Limestone; as above

Limestone; tan-cream, fine xln, dense, plus grey-maroon-brick red shale

**NEVA 2316 (-384)**

Limestone; cream-buff, fine xln, few slightly dolomitic, chalky in part, plus Chert; white, boney

Limestone; as above, shaley in part

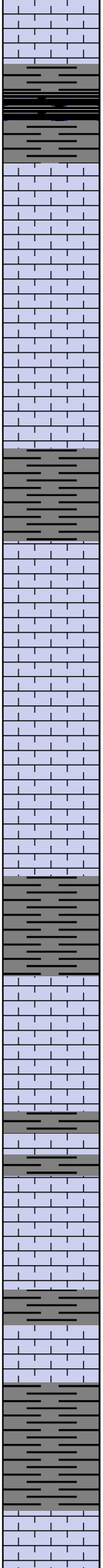
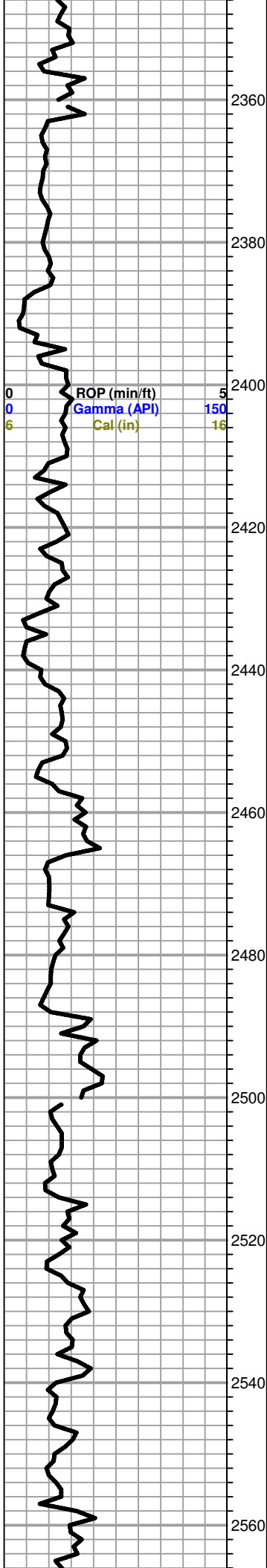
grey-dark grey shale

ROP (min/ft) 5  
Gamma (API) 150  
Cal (in) 16

Total Gas (units) 100  
C1 (units) 100  
C2 (units) 100  
C3 (units) 100  
C4 (units) 100

Gas check





Limestone; white-cream, fine xln, chalky dense, slightly fossiliferous, no shows

black carboniferous shale plus soft grey shale

**RED EAGLE 2375 (-443)**

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

Limestone; buff-tan, fine-medium xln, sparry calcite, few vuggy type porosity, no shows

Shale; dark grey-black

**FORAKER 2424 (-492)**

Limestone; white-cream-lt. grey, fine xln, chalky, fossiliferous/oolitic, oomoldic-oolitic type porosity, trace gas bubble, dull yellow fluorescences

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

Shale; grey-green-maroon-red, soft

Limestone; cream, fine xln, fossiliferous, few scattered porosity, no shows

Limestone; as above plus grey-green-maroon shale

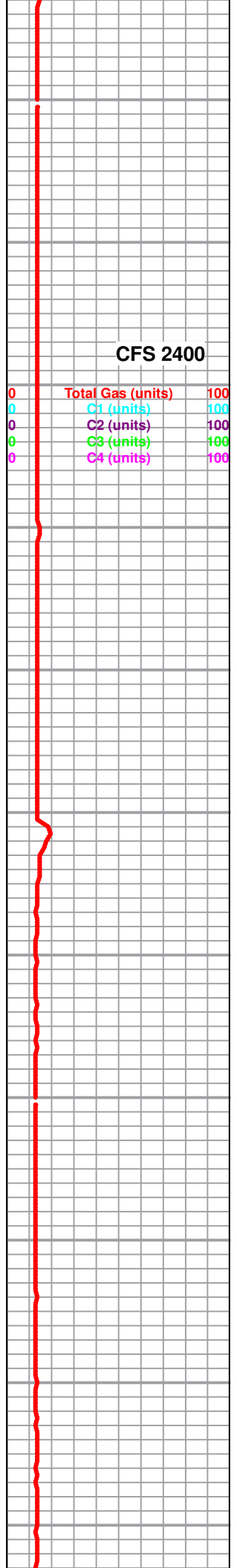
Limestone; cream-lt. grey, few mottled pieces, chalky no shows

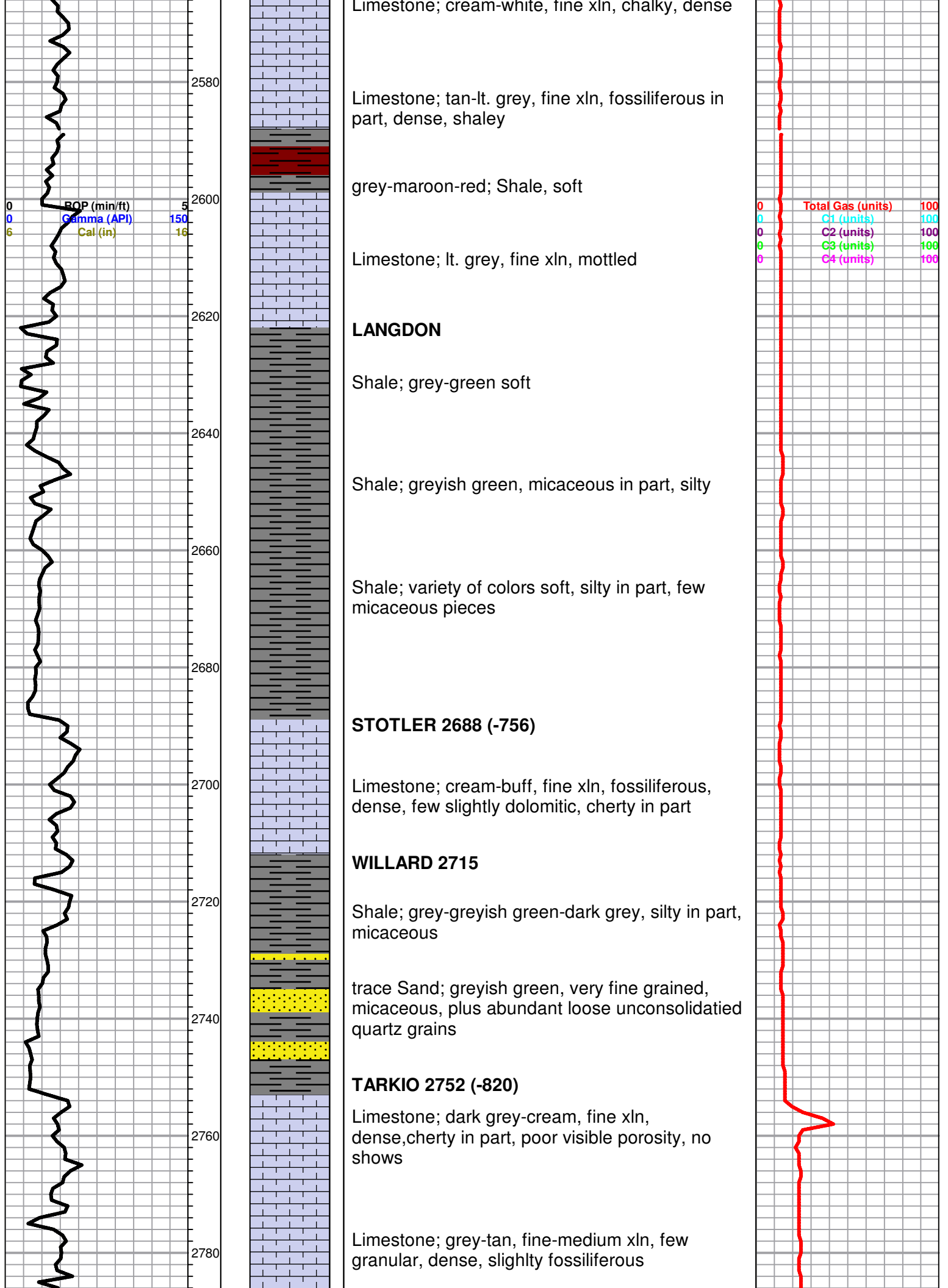
**INDIAN CAVE**

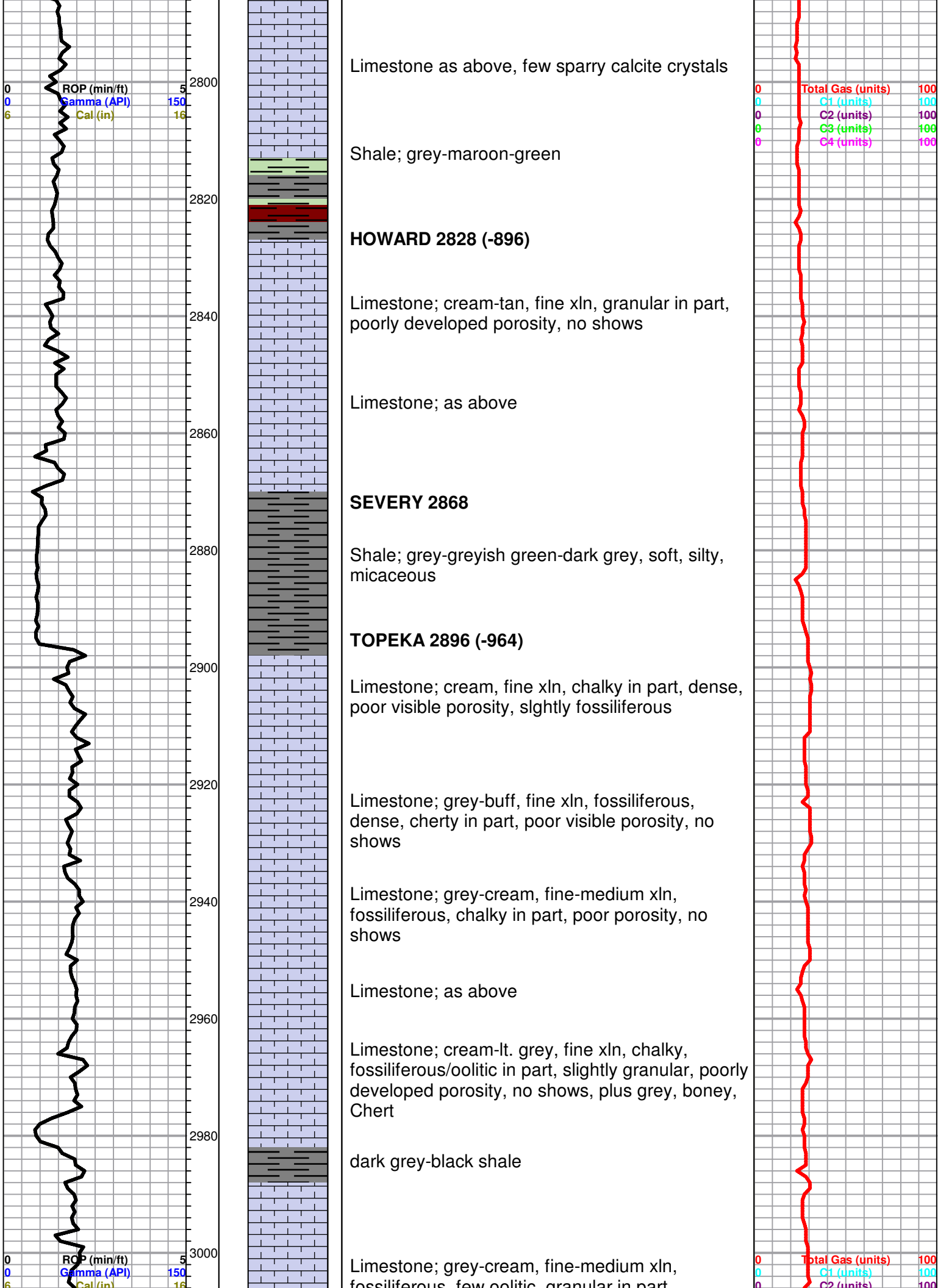
Shale; grey-greyish green silty in part, soft

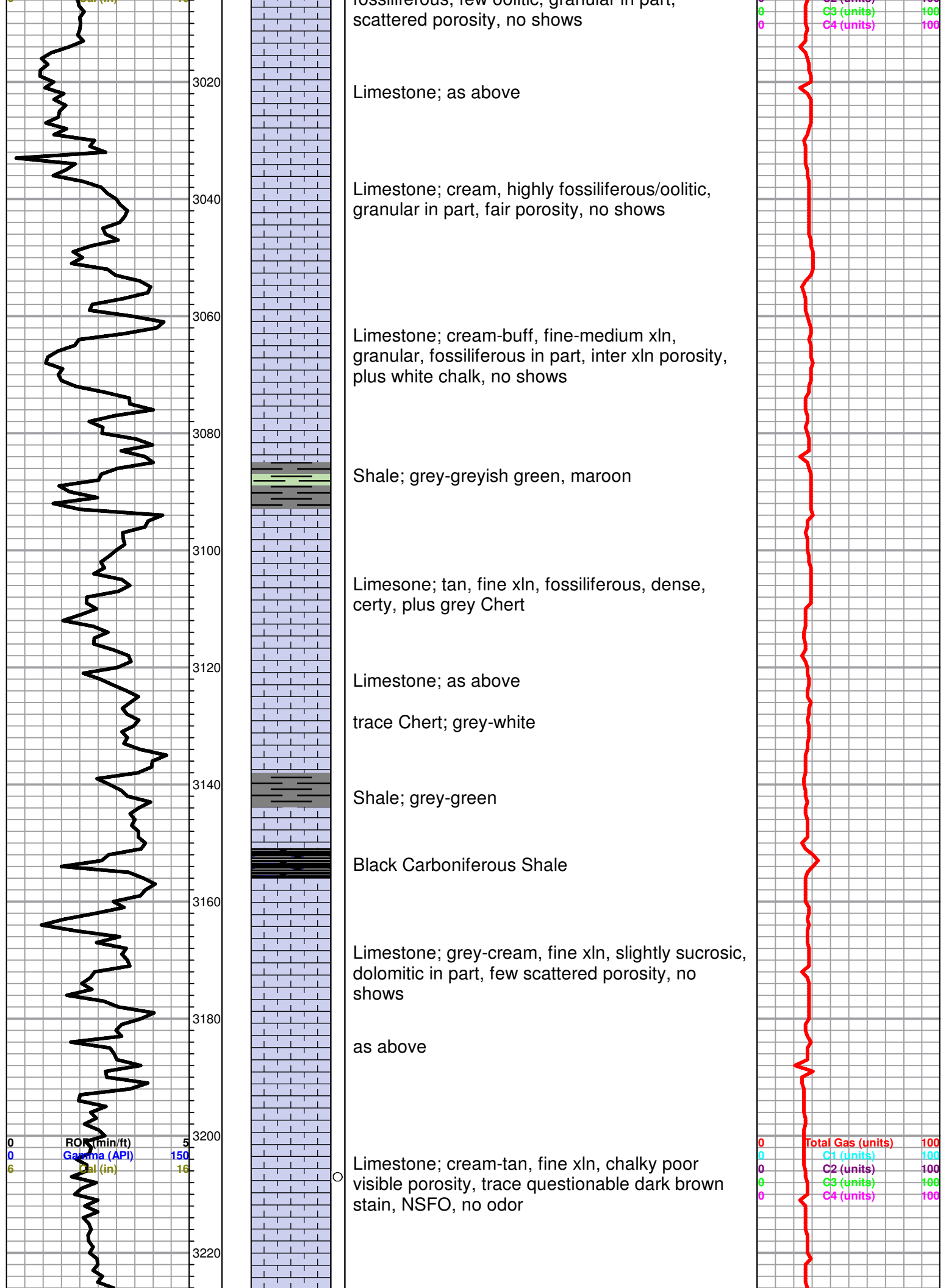
**WABAUNSEE 2558 (-626)**

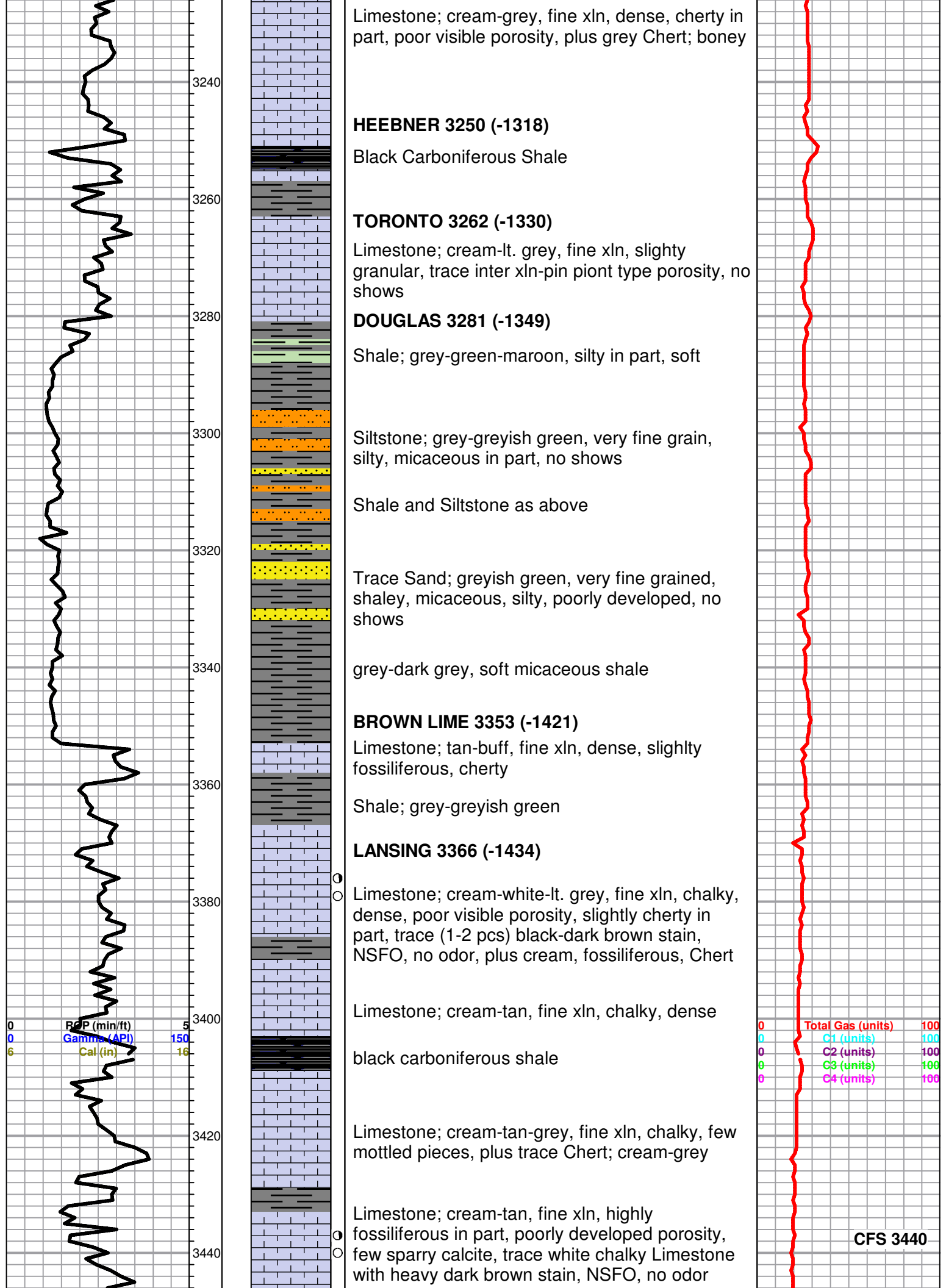
Limestone; white-cream, fine xln, chalky dense, slightly fossiliferous, no shows



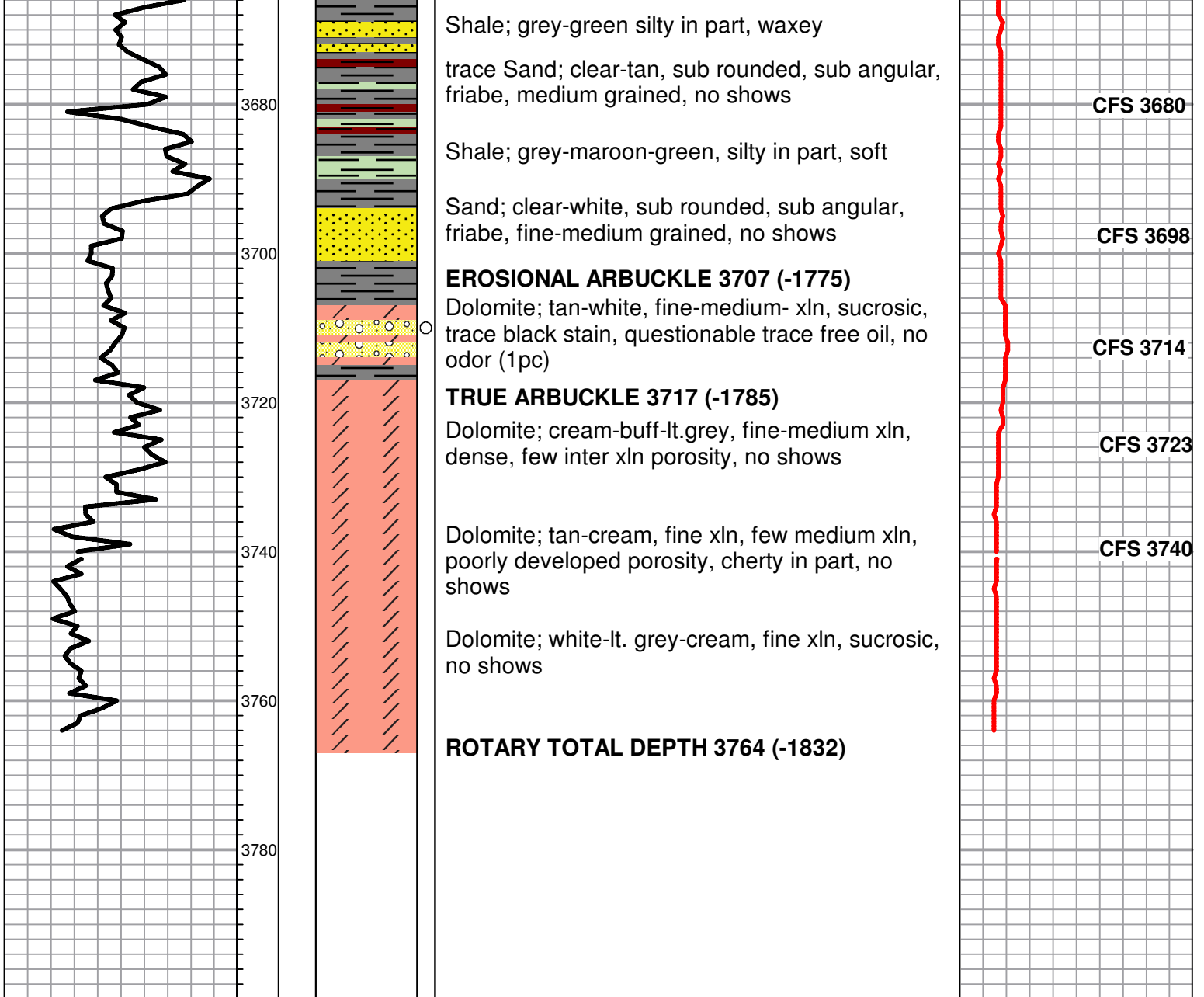












Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



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

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

October 11, 2012

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

Re: ACO1  
API 15-185-23765-00-00  
Debes 1-5  
SW/4 Sec.05-21S-14W  
Stafford 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



Customer <i>Room Operator</i>	Lease No.	Date <i>9-30-12</i>
Lease <i>Dabas</i>	Well # <i>1-5</i>	
Field Order # <i>6697</i>	Station <i>Pratt</i>	Casing
Type Job <i>CNW-PTA</i>	Formation	Depth
		County <i>Stafford</i>
		State <i>KS</i>
		Legal Description <i>5-21-14</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft				RATE	PRESS	ISIP
			<i>2205us</i>	<i>Acid</i>	<i>60/40 po2</i>			5 Min.
Depth	Depth	From	To	Pre Pad	Max			10 Min.
Volume	Volume	From	To	Pad	Min			15 Min.
Max Press	Max Press	From	To	Frac	Avg			HHP Used
Well Connection	Annulus Vol.	From	To					Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume			Total Load

Customer Representative <i>Larry Salaja</i>	Station Manager <i>Dave Scott</i>	Treater <i>Steve Orlew</i>
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Service Units	<i>27283</i>	<i>19903</i>	<i>19905</i>	<i>70959</i>	<i>19918</i>				
Driver Names	<i>Orlew</i>	<i>Melton</i>	<i>Kawence</i>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>6:00 AM</i>					<i>On location Safety meeting</i>
			<i>1st plug @ 377</i>	<i>5</i>	<i>with 50us 60/40 po2</i>
			<i>10</i>	<i>5</i>	<i>H2O</i>
			<i>14</i>	<i>5</i>	<i>mix 50us cement</i>
			<i>14</i>	<i>5</i>	<i>H2O Displacement</i>
<i>7:45 AM</i>			<i>30</i>	<i>5</i>	<i>mod Displacement</i>
			<i>2nd plug @ 910</i>		<i>with 50us</i>
			<i>10</i>	<i>5</i>	<i>H2O</i>
			<i>14</i>	<i>5</i>	<i>mix 50us cement</i>
			<i>3</i>	<i>5</i>	<i>H2O Displacement</i>
			<i>5</i>	<i>5</i>	<i>mod Displacement</i>
			<i>3rd plug @ 300us 60/40 po2</i>		
			<i>5</i>	<i>5</i>	<i>H2O</i>
			<i>14</i>	<i>5</i>	<i>mix 50us cement</i>
			<i>1</i>	<i>5</i>	<i>H2O Displacement</i>
			<i>11th plug @ 60 60/40 po2</i>		
			<i>5</i>	<i>5</i>	<i>mix 20us T Surface</i>
<i>10:30 AM</i>			<i>6/11</i>	<i>4</i>	<i>plug KH/m 11 with 50us</i>
					<i>Job Complete</i>
					<i>Thank Steve</i>

Customer <b>Rama Operating</b>	Lease No.	Date
Lease <b>Debes</b>	Well # <b>1-5</b>	<b>9-25-13</b>
Field Order # <b>6693</b>	Station <b>Pratt</b>	Casing <b>8 5/8</b>
		Depth <b>883</b>
Type Job <b>CNW-8 5/8 SurSec</b>	Formation	County <b>Stafford</b>
		State <b>KS</b>
		Legal Description <b>5-21-14</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size <b>8 5/8</b>	Tubing Size	Shots/Ft <b>1)</b>	<b>2000</b>	Acid <b>Acid</b>	<b>2.47</b>	RATE	PRESS
Depth <b>883</b>	Depth	From <b>142</b>	To <b>185</b>	Pre Pad <b>60/40/02</b>	Max <b>7.71</b>		ISIP
Volume	Volume	From	To	Pad	Min		10 Min.
Max Press <b>500</b>	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth <b>883</b>	Packer Depth	From	To	Flush <b>55.2</b>	Gas Volume		Total Load

Customer Representative <b>Larry Salgo</b>	Station Manager <b>Dave Scott</b>	Treater <b>Steve O. L. J. J.</b>
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Service Units <b>27083, 27463, 19831/19862</b>							
Driver Names <b>Orlando, Melvin, P. J. J.</b>							

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
1:00 PM					On location - Safety Meeting
					Run 2157 = 8 5/8 Csg
					Casing on Production Break Circ w/kin
3:25	300		88	6	Mix 2000 sur Acid @ 1) #/gal
3:40	0		40	6	Mix 185 sur 60/40 @ 14.8 #/gal
					Release Plug
3:50	0		0	6	Start Displacement
3:58	400		55	4	Conent TO Surface
4:00 PM	400		55	4	Plug Down
					Circulation Trip Job
					Circulator 6 bbl TO P. +
					Job complete
					Thanks, Steve