



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1166006
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: _____



1166006

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <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> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Rama Operating Co., Inc.
Well Name	Ruthie 'T' 1-26
Doc ID	1166006

All Electric Logs Run

CPI
MEL
DUCP
DIL

Customer: KAMA OPERATING	Lease No.:	Date: 9-5-13
Lease: ROTHIE T	Well #: 126	
Field Order #:	Station: PRATT, KS	Casing: 8 5/8 Depth:
Type Job: CNW 8 5/8 SURFACE	Formation:	County: STAFFORD State: KS
		Legal Description: 26-25-13

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size: 8 5/8	Tubing Size:	Shots/Ft:		Acid: 300SK 60/40 PZ	RATE:	PRESS:	ISIP:	
Depth: 311	Depth:	From:	To:	Pre Pad: 210 BENTONITE GEL	Max:		5 Min.	
Volume: 18	Volume:	From:	To:	Pad: 310 CARBONATE CHLORIDE	Min:		10 Min.	
Max Press:	Max Press:	From:	To:	Frac: 1.25 #/BK CELL FRAC	Avg:		15 Min.	
Well Connection:	Annulus Vol.:	From:	To:		HHP Used:		Annulus Pressure:	
Plug Depth: 205	Packer Depth:	From:	To:	Flush:	Gas Volume:		Total Load:	

Customer Representative:	Station Manager: GORDLEY	Treater: MCWIRE
Service Units: 37586	19889/19843	19831/19862
Driver Names: MCWIRE	EDWARDS	HACK

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
2:20					ON LOCATION SAFETY MEETING
					R16 UP TO R16 TO CIRCULATE
					RK UP TO PT
4:20				55	START H2O AHEAD
				55	MIX 300SKS 60/40 PZ @ 1418
4:31			65	55	CIRCULATE THRU TOR
			72		CEMENT TO SURFACE
04:43				5	SHUT DOWN RELEASE PUMP
					START DISPLACEMENT
04:50			18		PLUG DOWN
					JOB COMPLETE
					THANK YOU

Lease No.	Date				
Well # 1-26	09-10-13				
Field Order # 9106	Station PRATT KS	Casing 5 1/2	Depth 2978	County STAFFORD	State KS
Type Job CNW	Formation L.S.	Legal Description 26-25-13			

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
5 1/2				Pre Pad	Max		5 Min.	
2978	Depth	From	To	Pad	Min		10 Min.	
76	Volume	From	To	Frac	Avg		15 Min.	
1500	Max Press	From	To		HHP Used		Annulus Pressure	
PC	Well Connection	From	To	Flush	Gas Volume		Total Load	
2936	Plug Depth	From	To					

Customer Representative	Station Manager	Treater
	Kenneth Goodby	Robert J. [Signature]

Service Units	237108	20920	27900	70859	19918
Driver Names	Young	Sullivan	Phipps		


Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
4:20					on the safety meeting
					and 5 1/2" 14 csp. 94 JTS
7:25					CASING on bottom
7:30					think by circ. esp.
8:35	150		5		At spacer
			12		At mud flush
			5		SPACER
			24	4.5	mix cmt 100 sk AA-2 @ 15.12%
					cmt mix (1) shut down wash pump, line
					Release Plug
				4.5	At Desp
	250		83		2.5 PSI
	300			4	Slow Rate
9:15	1500		96		Plug down float 4.10
			7		plug RH w/ 20 sk before per cont
			4		plug MH w/ 20 sk
					SOB complete
					Thank you

OPERATOR

Company: RAMA Operating Company, Inc.
 Address: 101 S. Main ST
 Stafford, Kansas 67578

Contact Geologist:
 Contact Phone Nbr: 620-234-5191
 Well Name: Ruthie 'T' 1-26
 Location: 8 5/8" @ 311'
 Pool:
 State: Kansas, Stafford County

API: 15-185-23830-00-00
 Field: Leiss Southeast
 Country: USA




Joshua R. Austin

Petroleum Geologist

report for

RAMA Operating CO., Inc



Scale 1:240 Imperial

Well Name:	Ruthie 'T' 1-26	
Surface Location:	8 5/8" @ 311'	
Bottom Location:		
API:	15-185-23830-00-00	
License Number:		
Spud Date:	9/4/2013	Time: 7:30 PM
Region:	N/2-NE-SE-NE Sec 26-25s-13w	
Drilling Completed:	9/10/2013	Time: 2:50 AM
Surface Coordinates:	1,620' From North Line & 330' From East Line	
Bottom Hole Coordinates:		
Ground Elevation:	1912.00ft	
K.B. Elevation:	1925.00ft	
Logged Interval:	3000.00ft	To: 3980.00ft
Total Depth:	3980.00ft	
Formation:	Lansing	
Drilling Fluid Type:	Chemical mud displaced at 3093'	

SURFACE CO-ORDINATES

Well Type:	Vertical	
Longitude:		Latitude:
N/S Co-ord:	1,620' From North Line	
E/W Co-ord:	330' 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 #:	5	
Rig Type:	mud rotary	
Spud Date:	9/4/2013	Time: 7:30 PM
TD Date:	9/10/2013	Time: 2:50 AM
Rig Release:		Time:

ELEVATIONS

K.B. Elevation: 1925.00ft
K.B. to Ground: 13.00ft

Ground Elevation: 1912.00ft

NOTES

On the basis of the positive structural position, and after reviewing the electric logs it was recommended by all parties involved in the Ruthie 'T' 1-26 to run 5 1/2" production casing to further test the Lansing zones

RAMA Operating Co., Inc. well comparison sheet

DRILLING WELL					COMPARISON WELL				COMPARISON WELL			
Ruthie 'T' 1-26					R Russell #1 NW-SW-NW 25-25-13w				Russell A 1 26-25-13w			
1925 KB					1916 KB		Structural Relationship		1920 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Heebner	3469	-1544	3470	-1545	3468	-1552	8	7	3474	-1554	10	9
Toronto	3484	-1559	3486	-1561	3487	-1571	12	10	3494	-1574	15	13
Douglas	3502	-1577	3502	-1577	3503	-1587	10	10	3515	-1595	18	18
Brown Lime	3628	-1703	3624	-1699	3620	-1704	1	5	3626	-1706	3	7
Lansing	3656	-1731	3654	-1729	3646	-1730	-1	1	3655	-1735	4	6
Base KC	3942	-2017	3940	-2015	3934	-2018	1	3				
Total Depth	3980	-2055	3980	-2055	4255	-2339			3920	-2000		



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Rama Operating Co Inc

101 S Main St
Stafford Ks

ATTN: Josh Austin

26-25-13 Stafford Co

Ruthie T #1-26

Job Ticket: 52428

DST#: 1

Test Start: 2013.09.08 @ 21:57:02

GENERAL INFORMATION:

Formation: **Lansing J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:38:02

Time Test Ended: 07:12:02

Interval: **3862.00 ft (KB) To 3885.00 ft (KB) (TVD)**

Total Depth: **3885.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Staats

Unit No: 47

Reference Elevations: 1925.00 ft (KB)

1912.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 8676

Outside

Press@RunDepth: 132.26 psig @ 3863.00 ft (KB)

Start Date: 2013.09.08

End Date:

2013.09.09

Start Time: 21:57:07

End Time:

07:12:02

Capacity: 8000.00 psig

Last Calib.: 2013.09.09

Time On Btm: 2013.09.08 @ 02:35:17

Time Off Btm: 2013.09.09 @ 05:10:47

TEST COMMENT:

IF: Strong blow BOB 1 min

IS: No blow back

FF: Strong blow BOB 2 min GTS 4 min TSTM

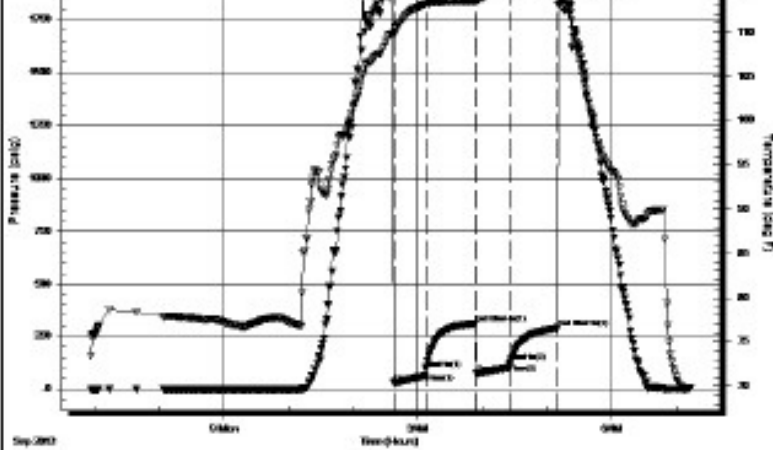
FSI: Weak blow back 3"

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation



0	1853.88	109.73	Initial Hydro-static
3	30.70	110.00	Open To Flow (1)
33	95.83	113.19	Shut-in(1)
78	312.04	113.51	End Shut-in(1)
79	75.55	113.47	Open To Flow (2)
111	132.26	114.80	Shut-in(2)
154	289.90	114.90	End Shut-in(2)
156	1866.97	115.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3866" GIP	0.00
120.00	O,W,M 1%oil 9%water 90%mud	0.59
120.00	O,G,M,W 1%oil 4%mud 5%gas 90%wat	0.59

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Rama Operating Co Inc

101 S Main St
Stafford Ks

ATTN: Josh Austin

26-25-13 Stafford Co

Ruthie T #1-26

Job Ticket: 52429

DST#: 2

Test Start: 2013.09.09 @ 10:25:20

GENERAL INFORMATION:

Formation: **Lansing H-I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:09:20

Time Test Ended: 17:47:50

Test Type: Conventional Straddle (Reset)

Tester: Chris Staats

Unit No: 47

Interval: 3790.00 ft (KB) To 3862.00 ft (KB) (TVD)

Total Depth: 3885.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches -hole Condition: Fair

Reference Elevations: 1925.00 ft (KB)

1912.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 8676

Outside

Press@RunDepth: 175.61 psig @ 3791.00 ft (KB)

Start Date: 2013.09.09 End Date: 2013.09.09

Start Time: 10:25:25 End Time: 17:47:49

Capacity: 8000.00 psig

Last Calib.: 2013.09.09

Time On Btm: 2013.09.09 @ 13:05:50

Time Off Btm: 2013.09.09 @ 15:40:35

TEST COMMENT:

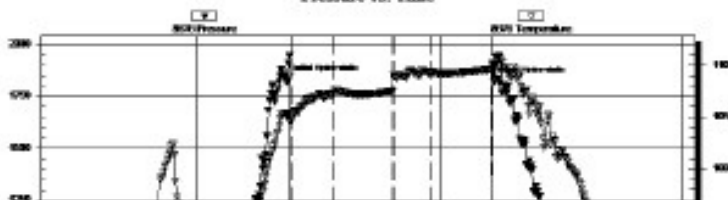
IF: Fair blow 8"

IS: No blow back

FF: Weak blow 3"

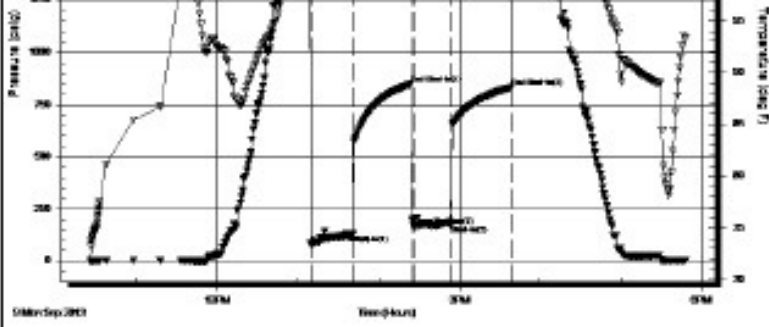
FSI: No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1825.67	105.38	Initial Hydro-static
4	85.14	104.53	Open To Flow (1)
35	129.54	107.00	Shut-in(1)
78	949.14	107.42	End Shut-in(1)



70	840.14	107.42	End Shut-in(1)
80	169.24	108.92	Open To Flow (2)
108	175.61	109.21	Shut-in(2)
153	832.49	109.58	End Shut-in(2)
155	1818.98	109.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	MUD 100%	1.18

* Recovery from multiple tests

Gas Rates

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

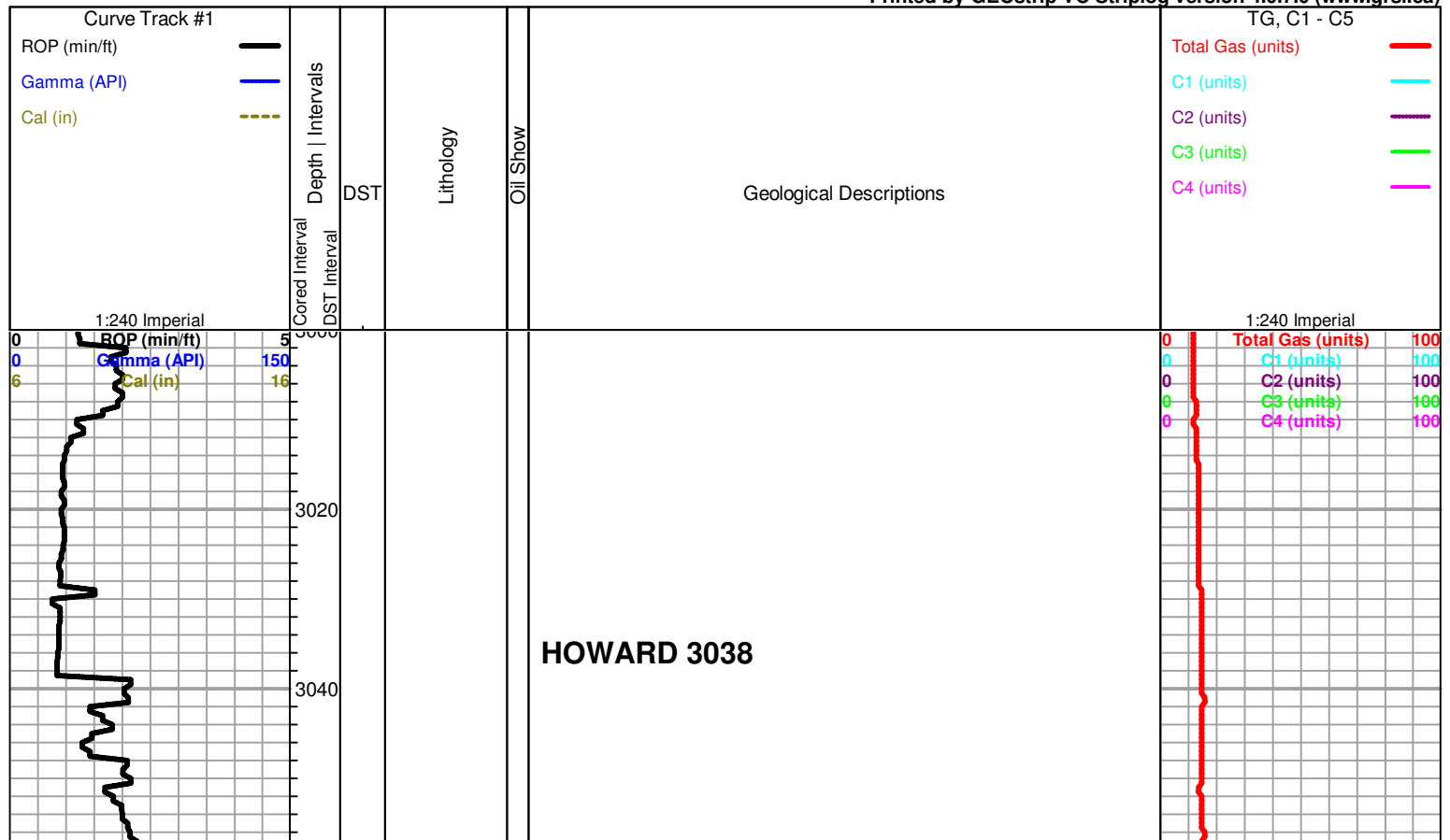
ROCK TYPES

Lmst fw7>
 shale, gry
 Carbon Sh
 Ss

OTHER SYMBOLS

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

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



3060
3080
3100
3120
3140
3160
3180
3200
3220
3240
3260

SEVERY

TOPEKA 3136

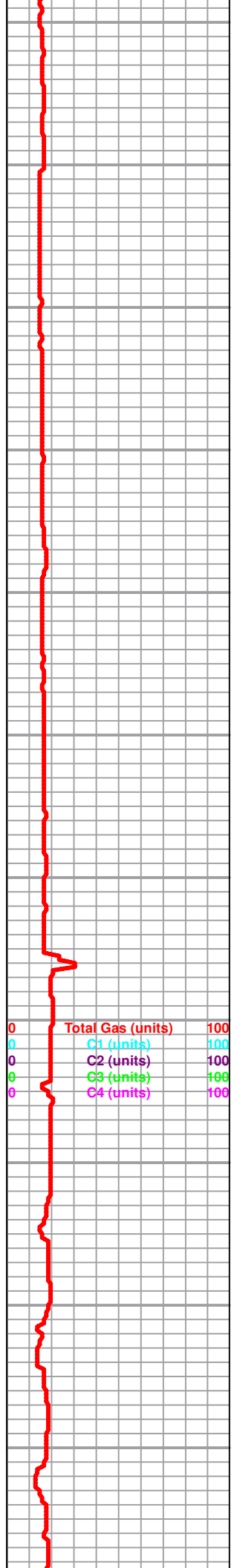
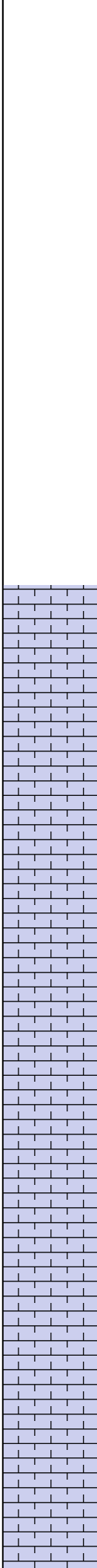
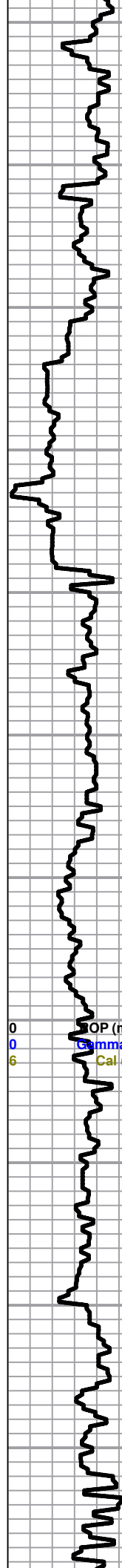
Wet and Dry Samples started

Limestone; cream-buff, fine-medium xln,
sandy/granular, poor visible porosity, no
shows, fossiliferous-oolitic, no shows

Limestone; as above

0 5
0 150
6 16
ROP (min/ft)
Gamma (API)
Cal (in)

0 100
0 100
0 100
0 100
0 100
Total Gas (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)



3280
3300
3320
3340
3360
3380
3400
3420
3440
3460
3480

grey-black Shale

Limestone; cream, fine xln, chalky, dense, plus grey-white Chert

Limestone; as above few granular pieces, no shows

Limestone; tan-cream, fine-medium xln, granular, dense, oolitic in part, no shows, plus white, translucent, grey Chert

Limestone; cream-buff, fine-medium xln, slightly fossiliferous, dense, plus grey-white boney Chert

Limestone; cream, fine xln, chalky, few cherty pieces, trace Limestone; tan, sucrosic, dolomitic in part, trace brown stain, NSFO, no odor

grey-green shale

Limestone; cream, fossiliferous, dense, slightly cherty, trace lt. grey boney Chert

HEEBNER 3469 (-1544)

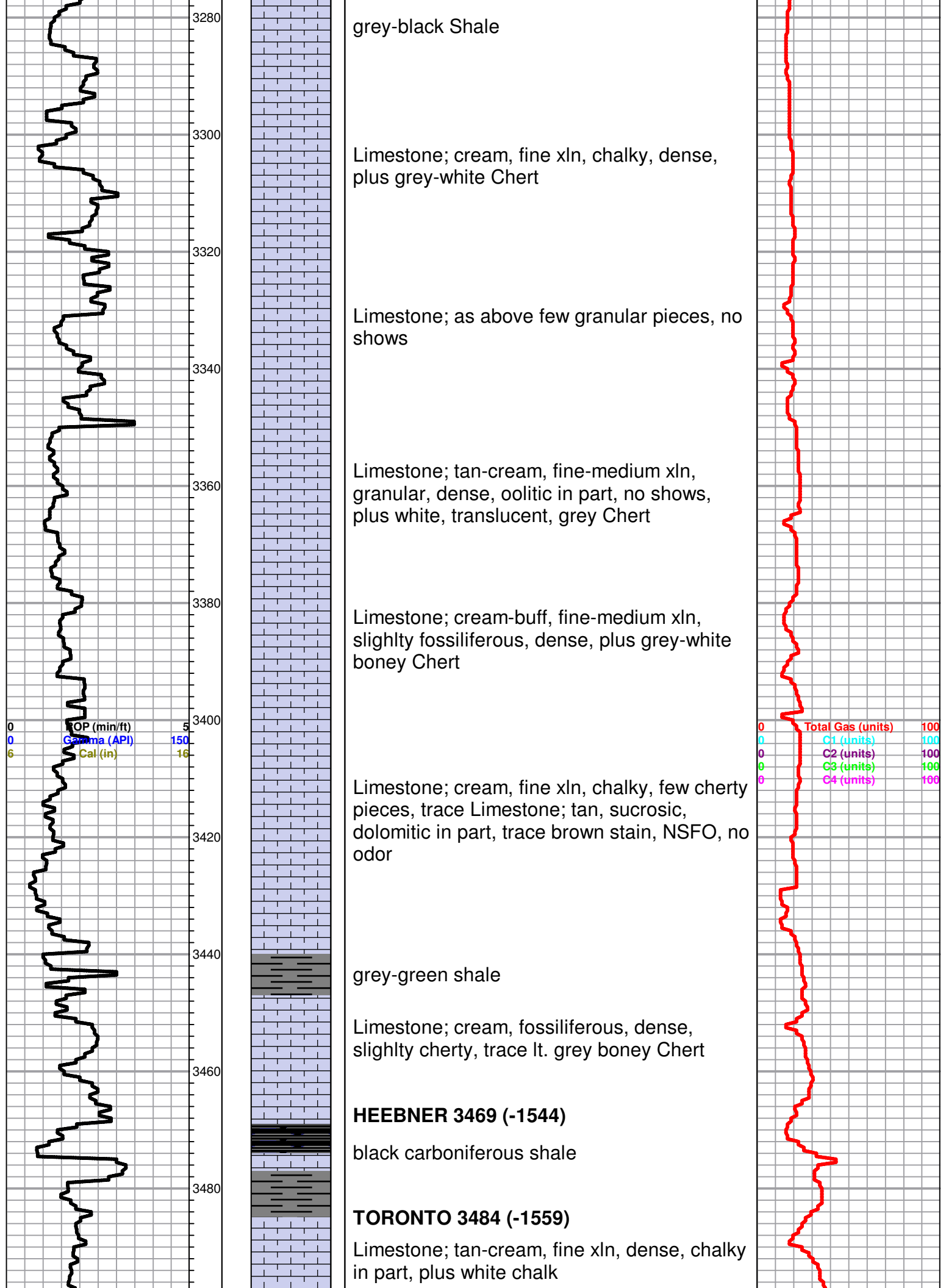
black carboniferous shale

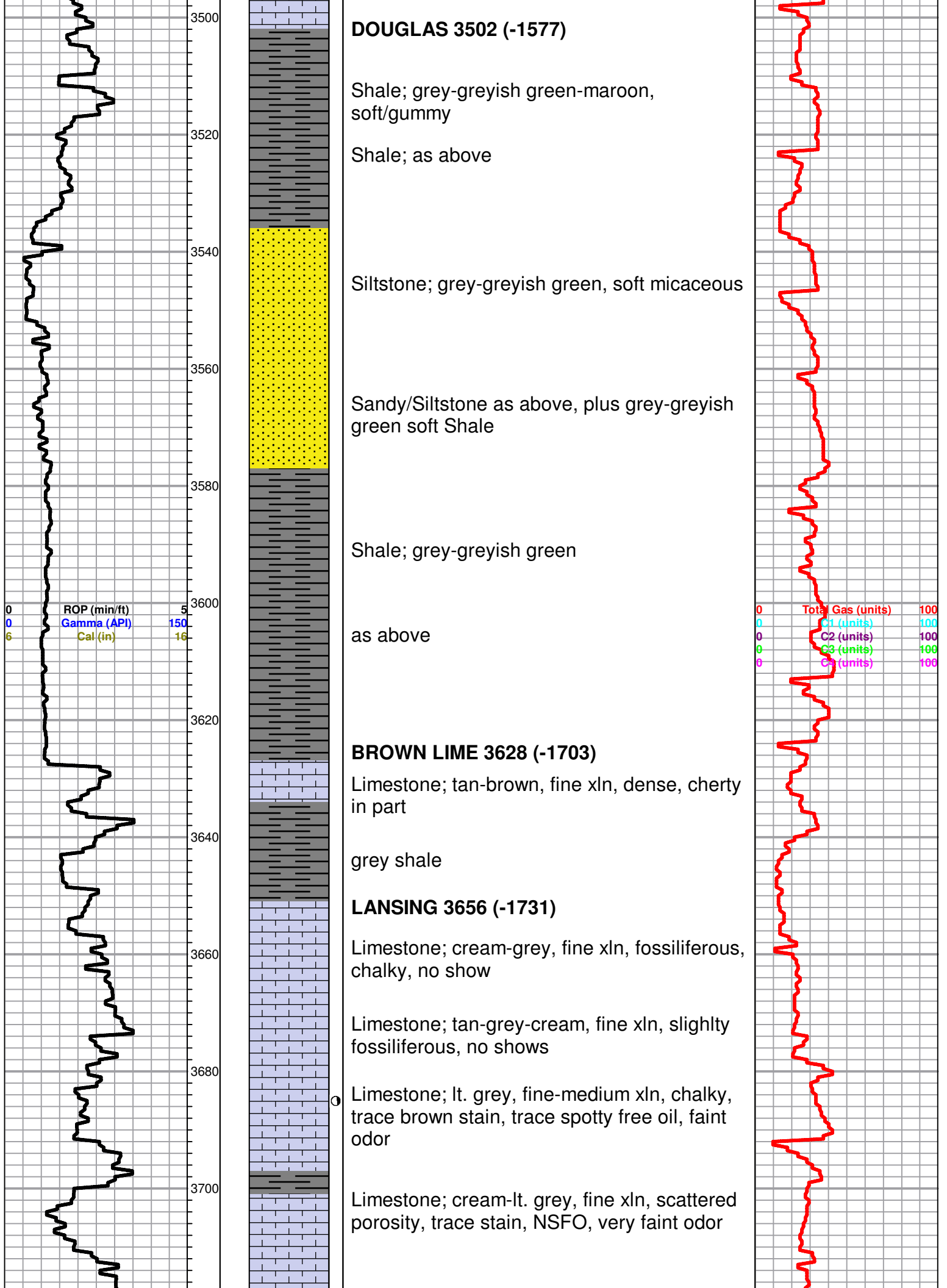
TORONTO 3484 (-1559)

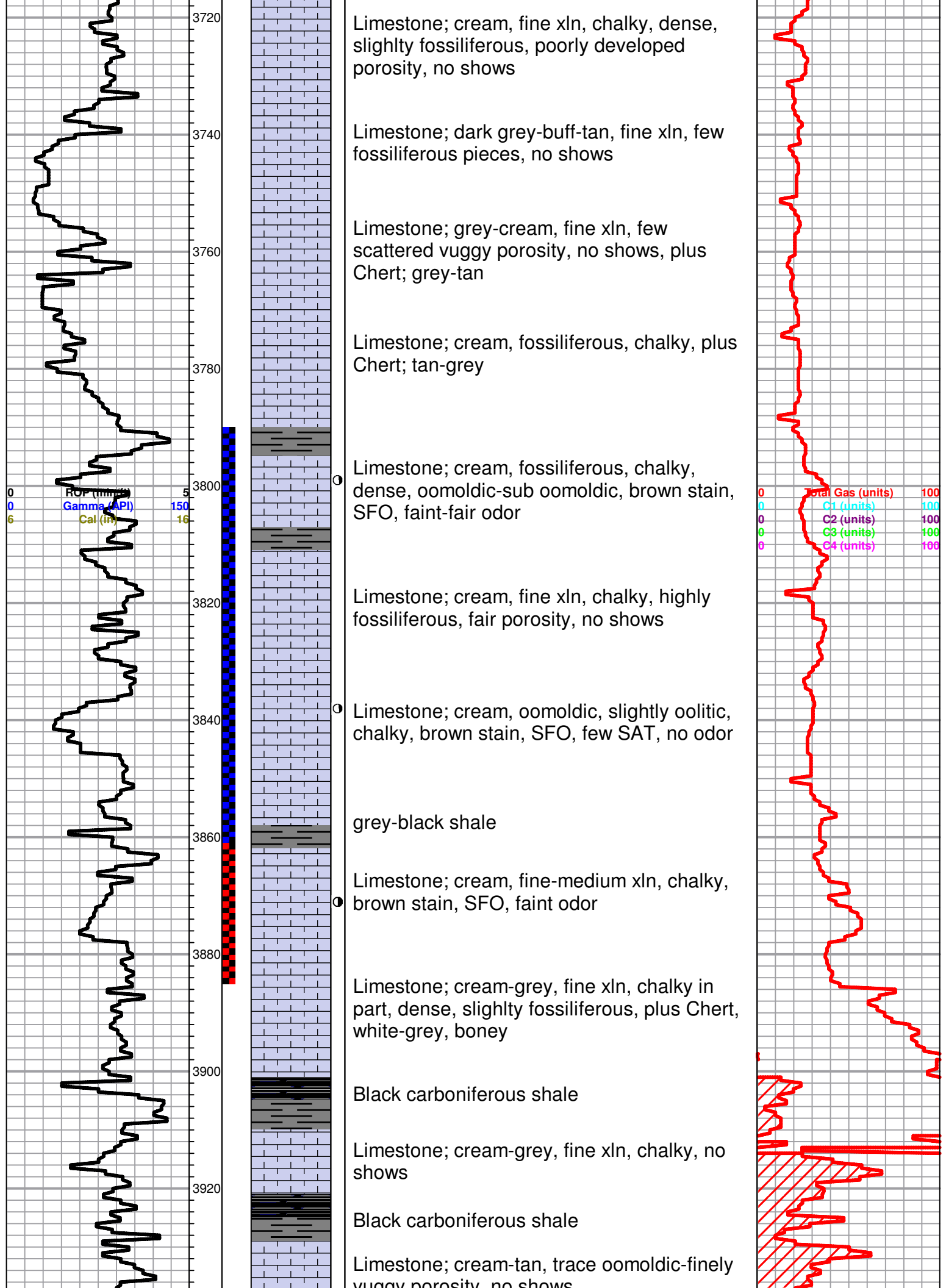
Limestone; tan-cream, fine xln, dense, chalky in part, plus white chalk

OP (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







vuggy porosity, no shows

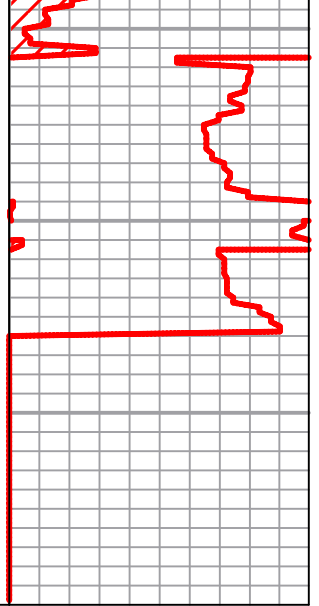
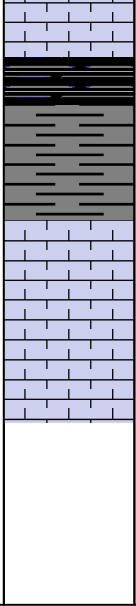
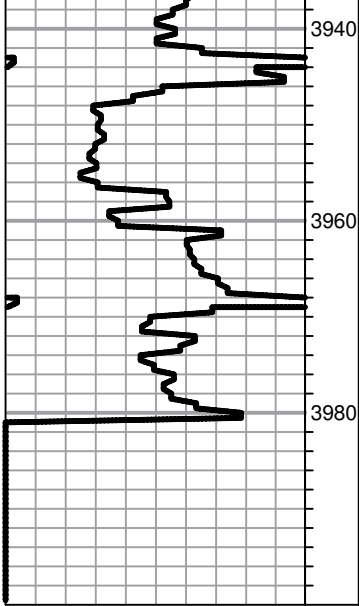
BASE KANSAS CITY 2942 (-2017)

Black carboniferous shale

Shale; black-grey-greyish green-maroon

Limestone; cream, fine xln, chalky,
fossiliferous in part, plus boney Chert

ROTARY TOTAL DEPTH 3980 (-2055)



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

November 18, 2013

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

Re: ACO1
API 15-185-23830-00-00
Ruthie 'T' 1-26
NE/4 Sec.26-25S-13W
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