KOLAR Document ID: 1635720

Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
January 2018
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
☐ 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 #:

03/14/2022 Spud Date or Recompletion Date
3/22/2022 Date Reached TD
04/06/2022 Completion Date or Recompletion Date

API No.: 15-185-24105-00-00
Spot Description:
S2 - SW - NE - NE Sec. 26 Twp. 25 S. R. 13 ☐ East ☑ West
660 Feet from ☑ North / ☐ South Line of Section
990 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: Stafford
Lease Name: RUTHIE 'T' Well #: 3-26
Field Name: Leiss Southeast
Producing Formation: Simpson Sd
Elevation: Ground: 1915 Kelly Bushing: 1928
Total Vertical Depth: 4336 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 337 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: 6000 ppm Fluid volume: 160 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Pauls Oilfield Service
Lease Name: Beckerdite License #: 31085
Quarter NW Sec. 27 Twp. 23 S. R. 12 ☐ East ☑ West
County: Stafford Permit #: D26547

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: 06/09/2022
☐ **Confidential Release Date:** 06/08/2024
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** David Befort **Date:** 06/09/2022

Page Two

Operator Name: Rama Operating Co., Inc. Lease Name: RUTHIE 'T' Well #: 3-26

Sec. 26 Twp. 25 S. R. 13 ☐ East ☑ West County: Stafford

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	
Geologist Report / Mud Logs	☑ Yes	☐ No	

List All E. Logs Run: Attached

☑ 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	337	60/40	325	2% gel 3% CC
Production	7.875	5.5	14	4325	AA-2	125	2% CC

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: 4/11/2022

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: ☐ 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)*

PRODUCTION INTERVAL:

Top	Bottom
4233	4238

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)*
4	4232	4238			274 BbL X-Link 12,000# 20/40 sand

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	Rama Operating Co., Inc.
Well Name	RUTHIE 'T' 3-26
Doc ID	1635720

All Electric Logs Run

DUCP
DIL
MEL

Form	ACO1 - Well Completion
Operator	Rama Operating Co., Inc.
Well Name	RUTHIE 'T' 3-26
Doc ID	1635720

Tops

Name	Top	Datum
Heebner	3493	-1565
Brown Lime	3644	-1716
Lansing	3665	-1737
Base Lansing	3964	-2036
Mississippi	4088	-2160
Viola	4114	-2186
Simpson Sd	4278	-2250
Arbuckle	4278	-2350
RTD	4336	-2408

Form	ACO1 - Well Completion
Operator	Rama Operating Co., Inc.
Well Name	RUTHIE 'T' 3-26
Doc ID	1635720

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	23	337	60/40	325	2% gel 3% CC
Production	7.875	5.5	14	4325	AA-2	125	2% CC

MENT TREATMENT REPORT

Customer:	Rama Operating Company	Well:	Ruthie T 3-26	Ticket:	wp 2511
City, State:	luka Kansas	County:	Stafford Kansas	Date:	3/14/2022
Field Rep:	Randy Ginest	S-T-R:	26-25s-13w	Service:	surface

Downhole Information	
Hole Size:	121/4 in
Hole Depth:	340 ft
Casing Size:	8 5/8 in
Casing Depth:	337 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	20.0 bbls

Calculated Slurry - Lead	
Blend:	60/40 2 & 3
Weight:	14.8 ppg
Water / Sx:	5.2 gal / sx
Yield:	1.21 ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	195%
Total Slurry:	70.0 bbls
Total Sacks:	325 sx

Calculated Slurry - Tail	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
5:45 PM			-	-	on location job and safety
6:00 PM				-	on location spot trucks and rig up
				-	
7:25 PM				-	start casing in the hole
8:15 PM				-	casing on bottom and circulate
8:25 PM				-	start cement
	3.0	150.0	3.0	3.0	fresh water
	4.5	400.0	70.0	73.0	mix 325 sacks 60/40 2& 3
8:45 PM					cement in and shut down
8:47 PM				-	start displacement
9:00 PM	2.0	150.0	20.0	20.0	displacement in and close in well
					cement in the cellar

	CREW	UNIT
Cementer:	M Brungardt	916
Pump Operator:	R Osborn	176/522
Bulk #1:	W Waits	523/534
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
3.2 bpm	233 psi	93 bbls

ftv: 15-2021/01/25
mplv: 105-2021/01/27

T TREATMENT REPORT

Customer:	RAMA OPERATING COMPANY	Well:	RUTHIE T 3-26	Ticket:	WP2561
City, State:	ST. JOHN KS	County:	STAFFORD KS	Date:	3/22/2022
Field Rep:	RANDY GINEST	S-T-R:	26-25S-13W	Service:	LONGSTRING

Downhole Information	
Hole Size:	in
Hole Depth:	4330 ft
Casing Size:	5 1/2 in
Casing Depth:	4312 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	105.0 bbls

Calculated Slurry - Lead	
Blend:	CLASS A
Weight:	14.5 ppg
Water / Sx:	6.6 gal / sx
Yield:	1.48 ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	33.0 bbls
Total Sacks:	125 sx

Calculated Slurry - Tail	
Blend:	H-PLUG
Weight:	13.78 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.43 ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	12.0 bbls
Total Sacks:	50 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
2:30 PM			-	-	ON LOCATION
5:45 PM				-	RUN 5 1/2 14# CASING 12' SHOE JOING, GUIDE SHOE&INSERT, TURBOS ON 2,5,8,11,14
8:10 PM				-	CASING ON BOTTOM
8:16 PM				-	HOOK TO CASING, BREAK CIRCULATION WITH RIG
8:20 PM	3.0	140.0	12.0	12.0	PUMP 500 GALLONS MUD FLUSH
9:26 PM	3.0	125.0	5.0	17.0	PUMP 5 BBL WATER
9:30 PM	3.0	90.0	33.0	50.0	MIX 125 SKS CLASS A
9:43 PM	4.0	25.0	4.0	54.0	WASH PUMP AND LINE, DROP PLUG
9:46 PM	6.0	150.0		54.0	START DISPLACEMENT
10:03 PM	3.0	220.0	85.0	139.0	LIFT PRESSURE
10:05 PM	92.0	290.0		139.0	SLOW RATE
10:15 PM			105.0	244.0	PLUG DOWN, RELEASED AND HELD
				244.0	
10:30 PM	2.0	25.0	7.0	251.0	MIX 30 SKS H PLUG FOR RAT HOLE
10:35 PM	2.0	25.0	5.0	256.0	MIX 20 SKS H PLUG FOR MOUSE HOLE
					CIRCULATION THRU JOB
				-	
				-	
				-	JOB COMPLETE, THANK YOU!
				-	MIKE MATTAL
				-	KEVIN & PAT
				-	
				-	
				-	
				-	
				-	
				-	

	CREW	UNIT
Cementer:	MATTAL	912
Pump Operator:	NOELLER	265
Bulk #1:	PAT	526/256
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
13.1 bpm	121 psi	256 bbls

Joshua R. Austin

Petroleum Geologist

report for

RAMA OPERATING CO., INC

COMPANY: RAMA OPERATING COMPANY INC.

LEASE: RUTHIE 'T' #3-26

FIELD: Leiss Southeast

LOCATION: S2-SW-NE-NE
660' FNL & 990' FEL

SEC: 26 **TWSP:** 25s **RGE:** 13w

COUNTY: Stafford **STATE:** Kansas

KB: 1928' **GL:** 1915'

API # 15-185-24105-00-00

CONTRACTOR: Sterling Drilling Co (Rig #5)

Spud: 03/15/2022 **Comp:** 03/22/2022

RTD: 4330' **LTD:** 4336'

Mud Up: 2907' **Type Mud:** Chemical was displaced

Samples Saved From: 3400' to RTD
Drilling Time Kept From: 3300' to RTD
Samples Examined From: 3400' to RTD
Geological Supervision From: 3500' to RTD
Geologist on Well: Josh Austin
Surface Casing: 8 5/8" @ 337'
Production Casing: 5 1/2" @ 4325'
Electronic Surveys: Midwest Wireline

NOTES

After reviewing the electric log, drill stem test and the shows in the samples, it was recommended by all parties involved in the Ruthie 'T' 3-26 to set 5 1/2" production casing to further test the zones with shows. See typed geo report for recommendations.

Respectfully submitted,
Josh Austin

RAMA Operating Co., Inc.
well comparison sheet

	DRILLING WELL Ruthie 'T' 3-26				COMPARISON WELL Ruthie 'T' 2-26				COMPARISON WELL Ruthie 'T' 1-26				COMPARISON WELL R. Russell A 1			
	1928 KB				1926 KB		Structural Relationship		1925 KB		Structural Relationship		1920 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Anyhdrite	778	1150	776	1152	774	1152	-2	0	759	1166	-16	-14	755	1170	-20	-18
B/ Anyhdrite	792	1136	792	1136	795	1131	5	5	783	1142	-6	-6	780	1145	-9	-9
Heebner	3487	-1559	3493	-1565	3477	-1551	-8	-14	3468	-1543	-16	-22	3474	-1549	-10	-16
Toronto	3507	-1579	3512	-1584	3496	-1570	-9	-14	3487	-1562	-17	-22	3494	-1569	-10	-15
Douglas	3520	-1592	3528	-1600	3511	-1585	-7	-15	3503	-1578	-14	-22	3511	-1586	-6	-14
Brown Lime	3640	-1712	3644	-1716	3628	-1702	-10	-14	3620	-1695	-17	-21	3626	-1701	-11	-15
Lansing	3662	-1734	3665	-1737	3655	-1729	-5	-8	3646	-1721	-13	-16	3655	-1730	-4	-7
Base KC	3961	-2033	3964	-2036	3945	-2019	-14	-17	3934	-2009	-24	-27				
Mississippi	4083	-2155	4088	-2160	4059	-2133	-22	-27								
Viola	4109	-2181	4114	-2186	4101	-2175	-6	-11								
Simpson Sand	4184	-2256	4178	-2250	4173	-2247	-9	-3								
Arbuckle	4270	-2342	4278	-2350	4233	-2307	-35	-43								
Total Depth	4330	-2402	4336	-2408	4290	-2364			4255	-2330			3920	-1995		

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Rama Operating Co. Inc.

101 S Main St
Stafford. Ks. 67578

ATTN: Josh Austin

sec 26/25S/13W

Ruthie T 3-26

Job Ticket: 67618 **DST#: 1**

Test Start: 2022.03.19 @ 07:48:25

GENERAL INFORMATION:

Formation: **Lansing J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:21:25
Time Test Ended: 15:22:25

Test Type: Conventional Bottom Hole (Initial)
Tester: Eric Burgess
Unit No: 80

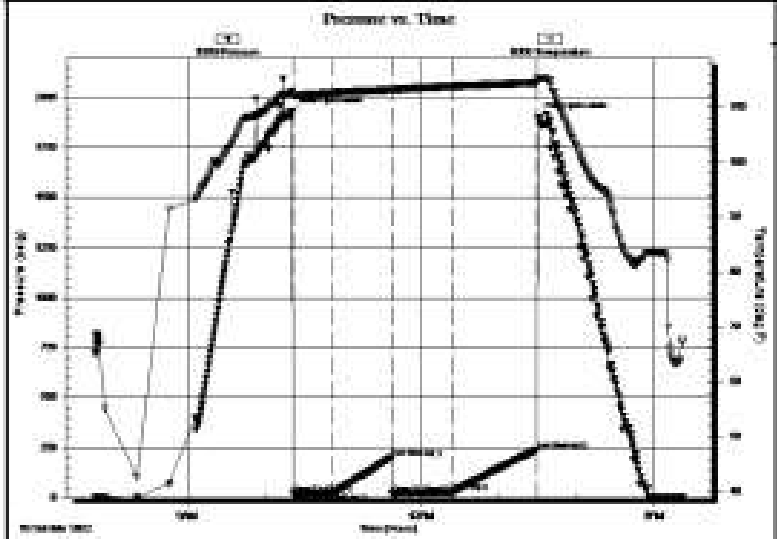
Interval: 3875.00 ft (KB) To 3895.00 ft (KB) (TVD)
Total Depth: 3895.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1928.00 ft (KB)
1915.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8369
Press@RunDepth: 27.65 psig @ 3877.00 ft (KB)
Start Date: 2022.03.19 End Date: 2022.03.19
Start Time: 07:48:26 End Time: 15:22:25

Capacity: 8000.00 psig
Last Calib.: 2022.03.19
Time On Btm: 2022.03.19 @ 10:20:35
Time Off Btm: 2022.03.19 @ 13:30:34

TEST COMMENT: IF:Fair Building Blow built to 5" in bucket (30)
ISI:No Blow Back (45)
FF:Fair Building Blow built to 8" in bucket (45)
FSI:No Blow Back (60)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1929.50	112.62	Initial Hydro-static
1	22.06	112.10	Open To Flow (1)
32	23.81	112.56	Shut-In(1)
77	202.68	113.07	End Shut-In(1)
78	20.58	113.02	Open To Flow (2)
124	27.65	113.71	Shut-In(2)
189	238.47	114.34	End Shut-In(2)
190	1900.00	115.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOSM 5%G 95%M	0.30
0.00	840' GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Rama Operating Co. Inc.

101 S Main St
Stafford. Ks. 67578

ATTN: Josh Austin

sec 26/25S/13W

Ruthie T 3-26

Job Ticket: 67619 **DST#: 2**

Test Start: 2022.03.20 @ 11:12:30

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:19:40
Time Test Ended: 18:18:50

Test Type: Conventional Bottom Hole (Reset)
Tester: Eric Burgess
Unit No: 80

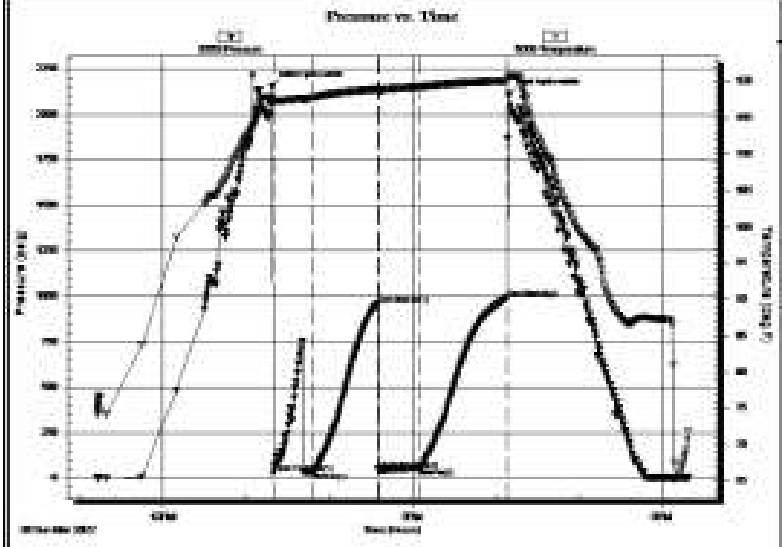
Interval: 4085.00 ft (KB) To 4125.00 ft (KB) (TVD)
Total Depth: 4125.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1928.00 ft (KB)
1915.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8369
Press@RunDepth: 61.25 psig @ 4092.00 ft (KB)
Start Date: 2022.03.20 End Date: 2022.03.20
Start Time: 11:12:31 End Time: 18:18:50

Capacity: 8000.00 psig
Last Calib.: 2022.03.20
Time On Btm: 2022.03.20 @ 13:18:50
Time Off Btm: 2022.03.20 @ 16:09:39

TEST COMMENT: IF:Strong Building Blow built to 23.2" (30)
ISI:No Blow Back (45)
FF:Strong Building Blow built to 62.7" (30)
FSI:No Blow Back (60)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2149.96	117.77	Initial Hydro-static
1	31.09	117.29	Open To Flow (1)
29	39.60	117.81	Shut-In(1)
76	956.86	118.98	End Shut-In(1)
77	51.40	118.75	Open To Flow (2)
106	61.25	119.32	Shut-In(2)
170	988.28	120.12	End Shut-In(2)
171	2109.84	120.69	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
60.00	MOCG 50%G 15%O 35%M	0.30
30.00	GOCM 5%G 10%O 85%M	0.15
0.00	1029' GIP	0.00

* Recovery from multiple tests

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

DRILL STEM TEST REPORT

Rama Operating Co. Inc.

101 S Main St
Stafford. Ks. 67578

ATTN: Josh Austin

sec 26/25S/13W

Ruthie T 3-26

Job Ticket: 67620 **DST#: 3**

Test Start: 2022.03.21 @ 05:00:56

GENERAL INFORMATION:

Formation: **Simpson Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:59:46
Time Test Ended: 12:00:26

Test Type: Conventional Bottom Hole (Reset)
Tester: Eric Burgess
Unit No: 80

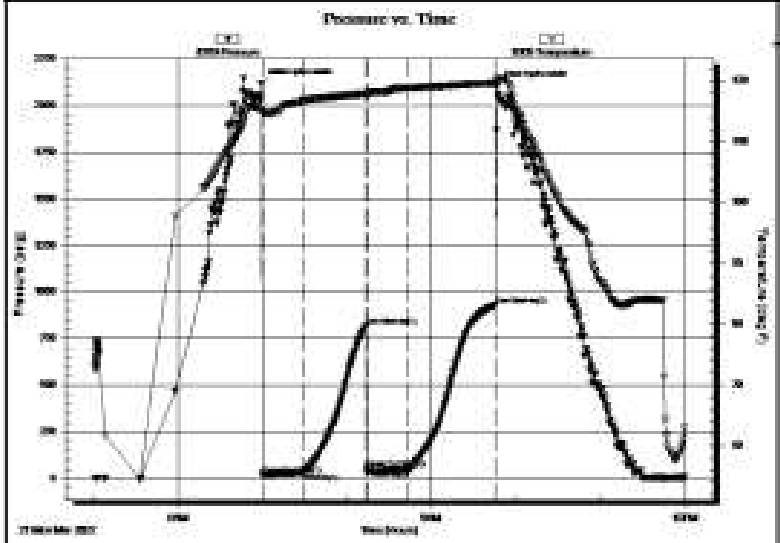
Interval: 4182.00 ft (KB) To 4210.00 ft (KB) (TVD)
Total Depth: 4210.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1928.00 ft (KB)
1915.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8369 **Inside**
Press@RunDepth: 51.22 psig @ 4187.00 ft (KB)
Start Date: 2022.03.21 End Date: 2022.03.21
Start Time: 05:00:57 End Time: 12:00:26

Capacity: 8000.00 psig
Last Calib.: 2022.03.21
Time On Btm: 2022.03.21 @ 08:58:56
Time Off Btm: 2022.03.21 @ 09:47:16

TEST COMMENT: IF:Fair Building Blow built to 11.1" (30)
ISI:No Blow Back (45)
FF:Strong Building Blow built to 31.96" (30)
FSI:No Blow Back (60)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2116.82	115.43	Initial Hydro-static
1	23.74	114.57	Open To Flow (1)
31	33.33	116.81	Shut-In(1)
75	818.28	117.88	End Shut-In(1)
75	55.30	117.62	Open To Flow (2)
105	51.22	118.83	Shut-In(2)
167	930.01	119.67	End Shut-In(2)
169	2104.08	120.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	651' GIP	0.00

Gas Rates

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

20.00	GOCM 5%O 95%M	0.10
60.00	GOCM 45%G 20%O 35%M	0.30

* Recovery from multiple tests

ROCK TYPES

Cht, Congl, Lmst fw<7, Shgy, Shcol
Coal, Dolprim, Ss, Shblck

OTHER SYMBOLS

OIL SHOWS
- Even Stn
- Spotted Stn 50 - 75 %
- Spotted Stn 25 - 50 %
- Spotted Stn 1 - 25 %
- Questionable Stn
- Dead Oil Stn
- Fluorescence

INTERVALS
- Core
- DST

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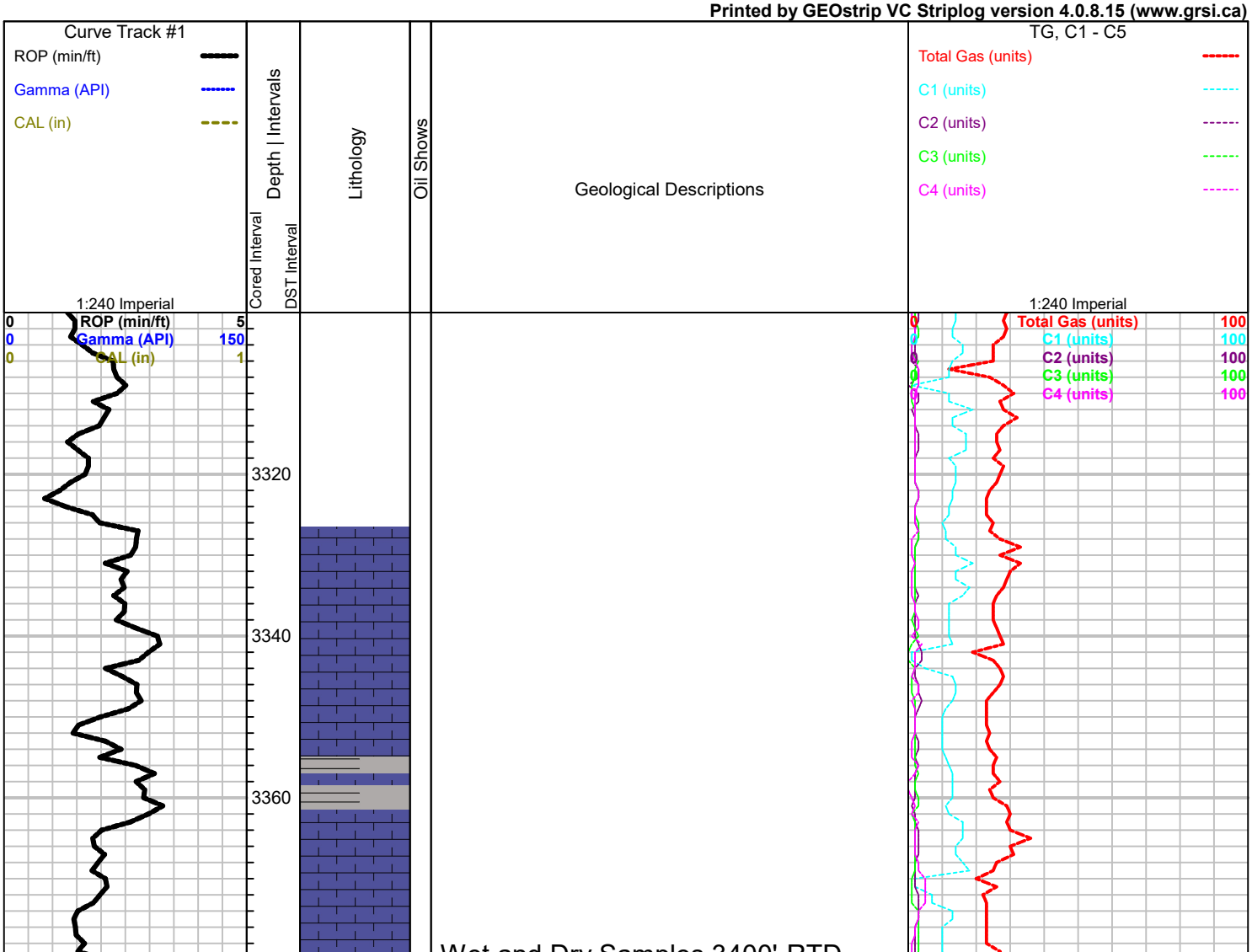
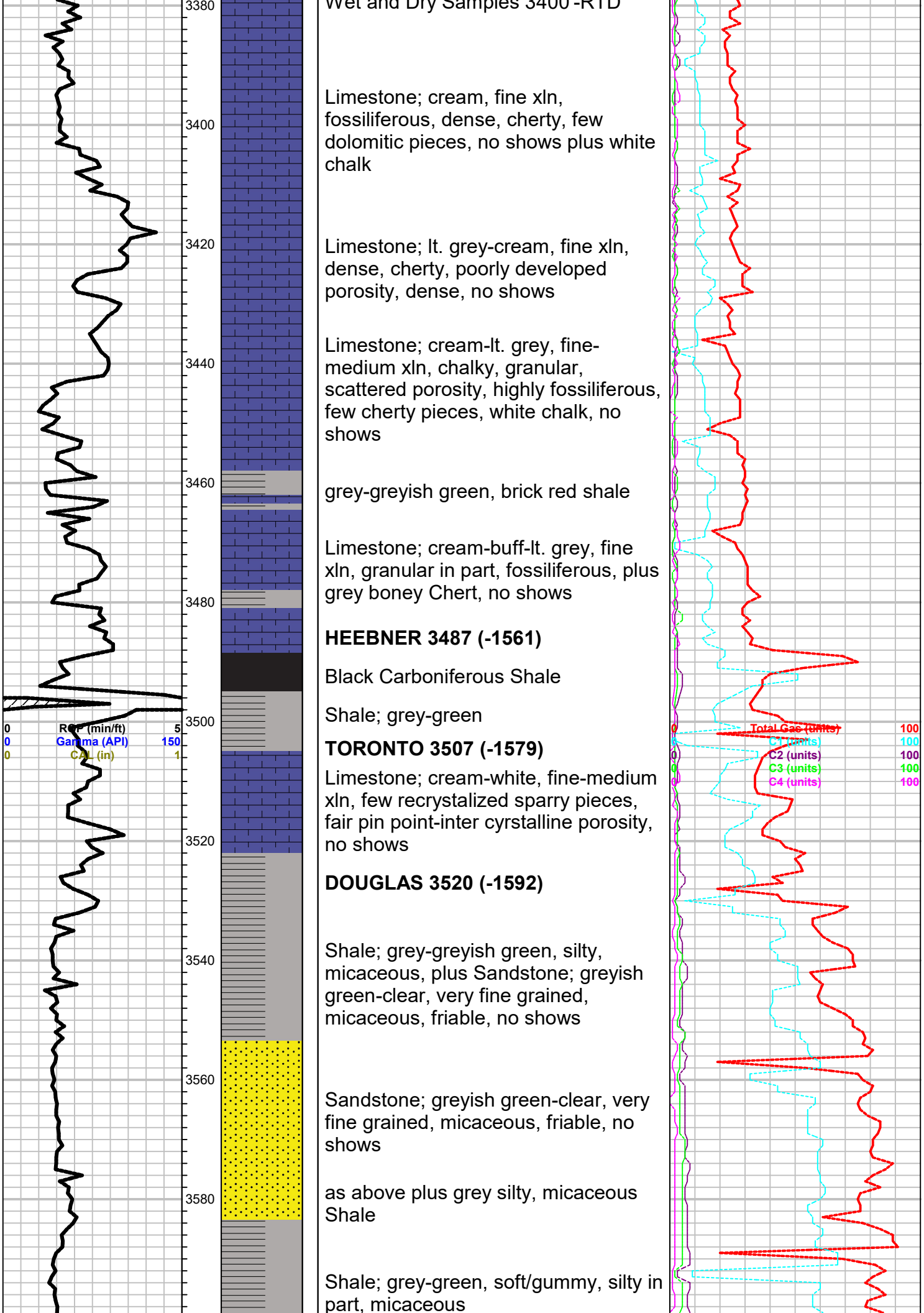




Wet and Dry Samples 3400 -RTD

Limestone; cream, fine xln, fossiliferous, dense, cherty, few dolomitic pieces, no shows plus white chalk

Limestone; lt. grey-cream, fine xln, dense, cherty, poorly developed porosity, dense, no shows

Limestone; cream-lt. grey, fine-medium xln, chalky, granular, scattered porosity, highly fossiliferous, few cherty pieces, white chalk, no shows

grey-greyish green, brick red shale

Limestone; cream-buff-lt. grey, fine xln, granular in part, fossiliferous, plus grey boney Chert, no shows

HEEBNER 3487 (-1561)

Black Carboniferous Shale

Shale; grey-green

TORONTO 3507 (-1579)

Limestone; cream-white, fine-medium xln, few recrystalized sparry pieces, fair pin point-inter cyrstalline porosity, no shows

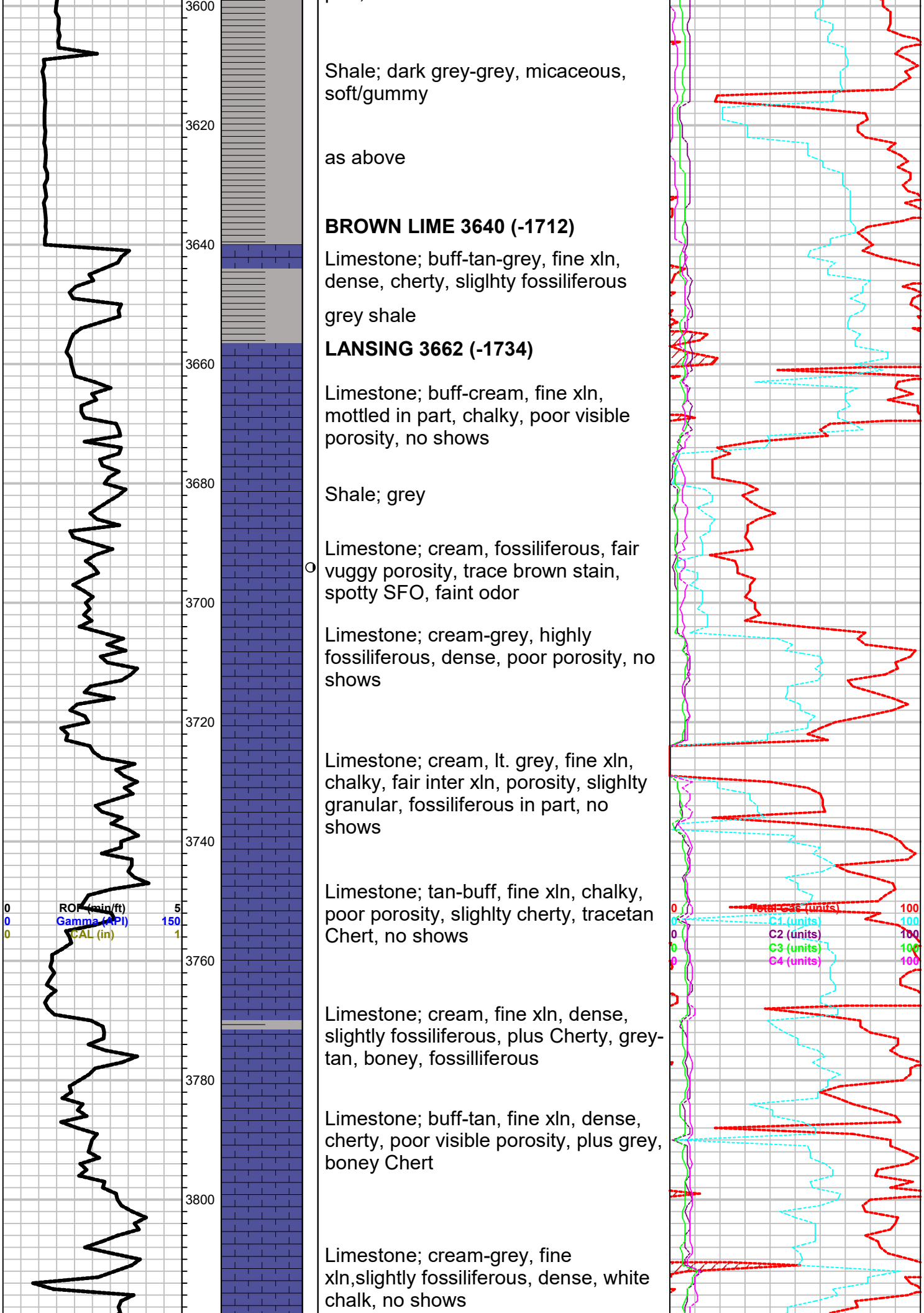
DOUGLAS 3520 (-1592)

Shale; grey-greyish green, silty, micaceous, plus Sandstone; greyish green-clear, very fine grained, micaceous, friable, no shows

Sandstone; greyish green-clear, very fine grained, micaceous, friable, no shows

as above plus grey silty, micaceous Shale

Shale; grey-green, soft/gummy, silty in part, micaceous



Shale; dark grey-grey, micaceous, soft/gummy

as above

BROWN LIME 3640 (-1712)

Limestone; buff-tan-grey, fine xln, dense, cherty, sliglhty fossiliferous

grey shale

LANSING 3662 (-1734)

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

Shale; grey

Limestone; cream, fossiliferous, fair vuggy porosity, trace brown stain, spotty SFO, faint odor

Limestone; cream-grey, highly fossiliferous, dense, poor porosity, no shows

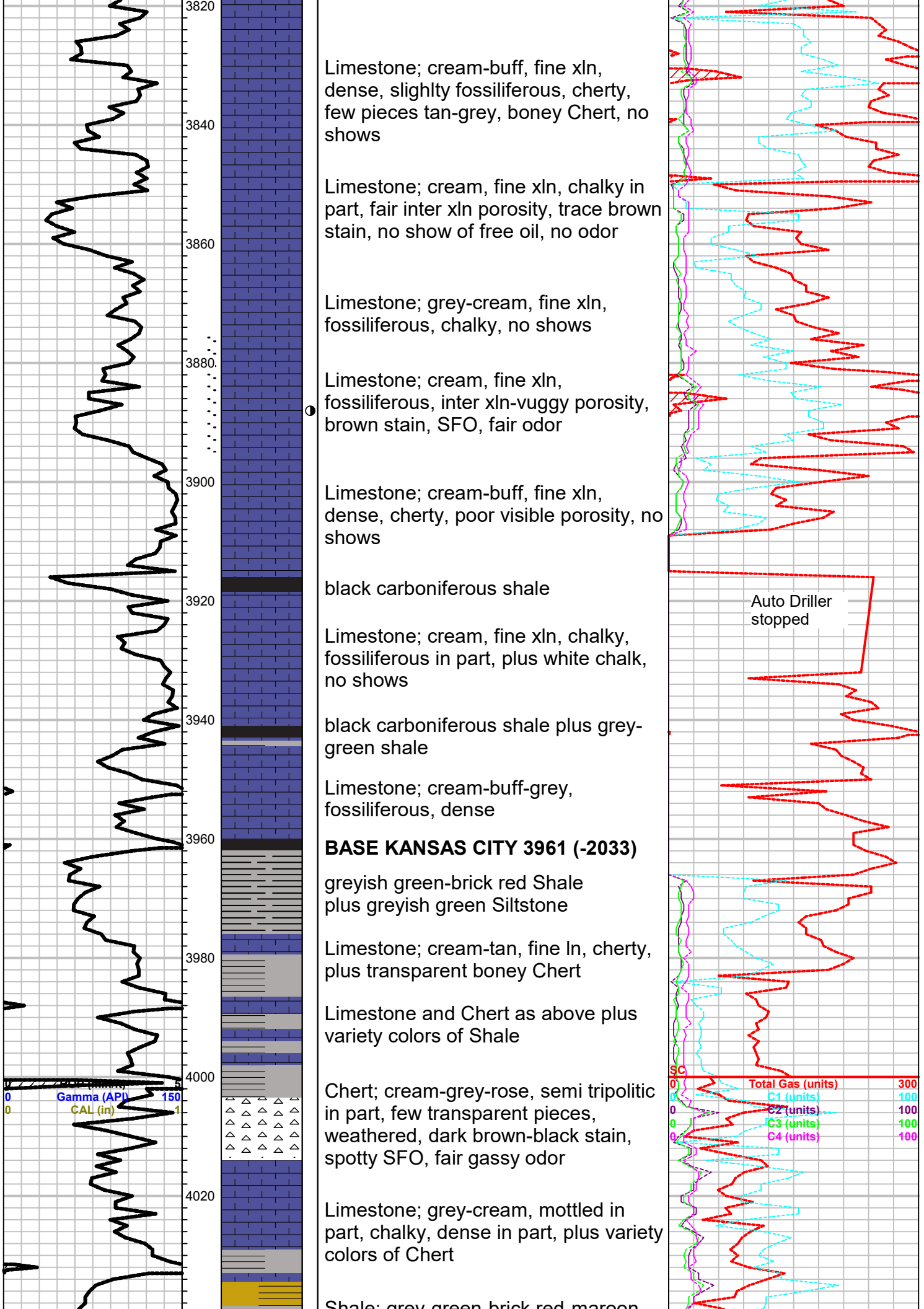
Limestone; cream, lt. grey, fine xln, chalky, fair inter xln, porosity, slighlty granular, fossiliferous in part, no shows

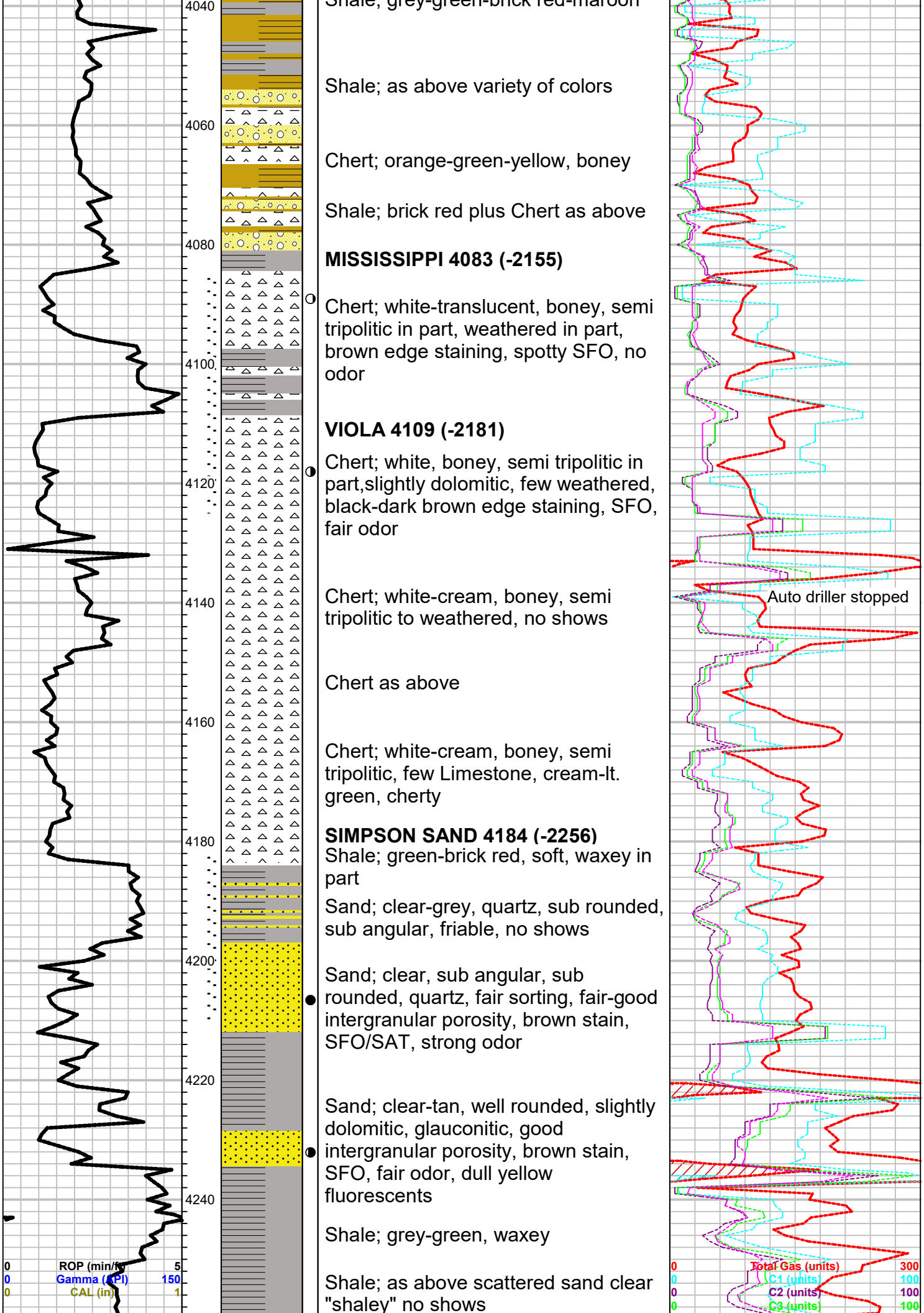
Limestone; tan-buff, fine xln, chalky, poor porosity, slighlty cherty, tracetan Chert, no shows

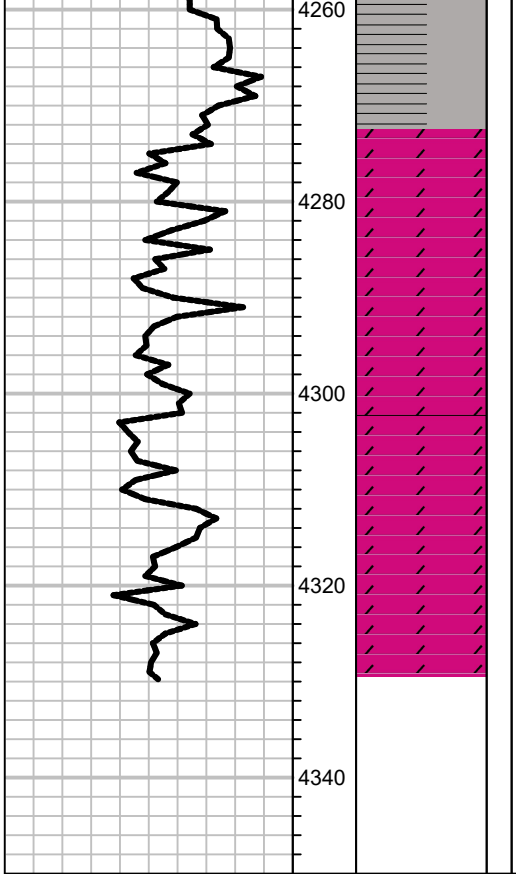
Limestone; cream, fine xln, dense, slightly fossiliferous, plus Cherty, grey-tan, boney, fossilliferous

Limestone; buff-tan, fine xln, dense, cherty, poor visible porosity, plus grey, boney Chert

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


3820
3840
3860
3880
3900
3920
3940
3960
3980
4000
4020
Gamma (API)
0
150
CAL (in)
0
1
Limestone; cream-buff, fine xln, dense, slighlty fossiliferous, cherty, few pieces tan-grey, boney Chert, no shows
Limestone; cream, fine xln, chalky in part, fair inter xln porosity, trace brown stain, no show of free oil, no odor
Limestone; grey-cream, fine xln, fossiliferous, chalky, no shows
Limestone; cream, fine xln, fossiliferous, inter xln-vuggy porosity, brown stain, SFO, fair odor
Limestone; cream-buff, fine xln, dense, cherty, poor visible porosity, no shows
black carboniferous shale
Limestone; cream, fine xln, chalky, fossiliferous in part, plus white chalk, no shows
black carboniferous shale plus grey-green shale
Limestone; cream-buff-grey, fossiliferous, dense
BASE KANSAS CITY 3961 (-2033)
greyish green-brick red Shale plus greyish green Siltstone
Limestone; cream-tan, fine ln, cherty, plus transparent boney Chert
Limestone and Chert as above plus variety colors of Shale
Chert; cream-grey-rose, semi tripolitic in part, few transparent pieces, weathered, dark brown-black stain, spotty SFO, fair gassy odor
Limestone; grey-cream, mottled in part, chalky, dense in part, plus variety colors of Chert
Auto Driller stopped
SC
0
Total Gas (units)
300
C1 (units)
100
0
C2 (units)
100
0
C3 (units)
100
0
C4 (units)
100


4040
4060
4080
4100
4120
4140
4160
4180
4200
4220
4240
Shale; grey-green-brick red-maroon
Shale; as above variety of colors
Chert; orange-green-yellow, boney
Shale; brick red plus Chert as above
MISSISSIPPI 4083 (-2155)
Chert; white-translucent, boney, semi tripolitic in part, weathered in part, brown edge staining, spotty SFO, no odor
VIOLA 4109 (-2181)
Chert; white, boney, semi tripolitic in part,slightly dolomitic, few weathered, black-dark brown edge staining, SFO, fair odor
Chert; white-cream, boney, semi tripolitic to weathered, no shows
Chert as above
Chert; white-cream, boney, semi tripolitic, few Limestone, cream-lt. green, cherty
SIMPSON SAND 4184 (-2256)
Shale; green-brick red, soft, waxey in part
Sand; clear-grey, quartz, sub rounded, sub angular, friable, no shows
Sand; clear, sub angular, sub rounded, quartz, fair sorting, fair-good intergranular porosity, brown stain, SFO/SAT, strong odor
Sand; clear-tan, well rounded, slightly dolomitic, glauconitic, good intergranular porosity, brown stain, SFO, fair odor, dull yellow fluorescents
Shale; grey-green, waxey
Shale; as above scattered sand clear "shaley" no shows
Auto driller stopped
0 ROP (min/ft) 5
0 Gamma (API) 150
0 CAL (in) 1
0 Total Gas (units) 300
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100



ARBUCKLE 4270(-2342)

Dolomite; tan-buff, fine xln, sucrosic in part, recrystallized in part, poor visible porosity, no shows

Dolomite; cream-tan-grey, as above plus few vuggy porosity, rhombic in part, Cherty, no shows

Dolomite; as above, fine-medium xln, inter xln-vuggy porosity, rhombic, plus Chert; white-lt. grey, oolitic, no shows

Dolomite as above, plus Chert; white, ooliitc, no shows

RTD 4330 (-2402)
LTD 4336 (-2408)