

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 # _____

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

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 #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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 Geologist Report / Mud Logs <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
--	---

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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
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) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
---	--	------------------------------------

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

TUBING RECORD:	Size:	Set At:	Packer At:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Rama Operating Co., Inc.
Well Name	RUTHIE 'T' 2-26
Doc ID	1574027

Tops

Name	Top	Datum
Heebner	3474	-1548
Brown Lime	3626	-1700
Lansing	3655	-1729
Base Lansing	3940	-2014
Mississippi	4072	-2146
Simpson Sd	4170	-2244
Arbuckle	4234	-2308
RTD	4234	-2308



CEMENT TREATMENT REPORT

Customer: RAMA OPERATING COMPANY	Well: RUTHIE " T " 2-26	Ticket: WP 1400
City, State:	County: STAFFORD, KS	Date: 5/17/2021
Field Rep:	S-T-R: 26-25S-13W	Service: 8 5/8" SURFACE

Downhole Information	
Hole Size:	12 1/4 in
Hole Depth:	332 ft
240	8 5/8 in 23#
Casing Depth:	328.29 ft
Tubing / Liner:	in
PLUG DEPTH:	308 ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	19.7 bbls

Calculated Slurry - Lead	
Blend:	
Weight:	PPG
Water / Sx:	gal / sx
Yield:	ft³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sx

Calculated Slurry - Tail	
Blend:	60 /40 / 2 pozmix
Weight:	14.8 ppg
Water / Sx:	5.2 gal / sx
Yield:	1.21 ft³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	53.8 bbls
Total Sacks:	250 sx

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
4:30PM			-	-	ON LOCATION- SPOT EQUIPMENT AND RIG UP FOR JOB
5:15PM				-	RUN 7 JTS OF 8 5/8" X 23# CASING
5:50PM				-	CASING ON BOTTOM
6:00PM				-	HOOK UP TO CASING AND BREAK CIRCULATION WITH RIG PUMP AND MUD
6:05PM	5.0	200.0	10.0	10.0	H2O AHEAD
6:07PM	5.0	200.0	63.8	63.8	MIX 250 SKS 60/40/2 POZMIX @ 14.8 PPG
6:20PM	5.0	100.0	-	63.8	START DISPLACEMENT
6:43PM	4.0	225.0	17.0	80.8	SLOW RATE
6:45PM	3.0	250.0	19.7	100.5	CEMENT @ DESIRED DEPTH
				100.5	DID NOT CIRCULATE CEMENT
				100.5	CIRCULATION THRU JOB
8:45PM	1.5	50.0	18.0		RAN 60' - 1" TO SURFACE W/ 75 SKS H- LITE CEMENT @ 14#
9:00PM					CEMENT IN CELLAR
					WASH UP PUMP TRUCK
					JOB COMPLETE,
					THANKS- KEVEN AND CREW

CREW		UNIT	SUMMARY		
Cementor:	LESLEY	75	Average Rate	Average Pressure	Total Fluid
Pump Operator:	McLAMORE	176-521	3.9 bpm	171 psi	119 bbls
Bulk #1:	(RH) TRAVINO	181-532			
Bulk #2:					



DRILL STEM TEST REPORT

Prepared For: **Rama Operating Co Inc**

101 S Main St
Stafford, KS 67578

ATTN: Josh Austin

Ruthie T #2-26

26-25s-13w Stafford,KS

Start Date: 2021.05.22 @ 20:24:15

End Date: 2021.05.23 @ 05:01:00

Job Ticket #: 67232 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2021.05.27 @ 11:52:16



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Rama Operating Co Inc

26-25s-13w Stafford,KS

101 S Main St
Stafford, KS 67578

Ruthie T #2-26

Job Ticket: 67232

DST#: 1

ATTN: Josh Austin

Test Start: 2021.05.22 @ 20:24:15

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:02:45

Time Test Ended: 05:01:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 68

Interval: 4010.00 ft (KB) To 4075.00 ft (KB) (TVD)

Reference Elevations: 1926.00 ft (KB)

Total Depth: 4075.00 ft (KB) (TVD)

1915.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8931 Inside

Press@RunDepth: 40.97 psig @ 4011.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.05.22

End Date: 2021.05.23

Last Calib.: 2021.05.23

Start Time: 20:24:20

End Time: 05:01:00

Time On Btm: 2021.05.23 @ 00:01:00

Time Off Btm: 2021.05.23 @ 03:03:15

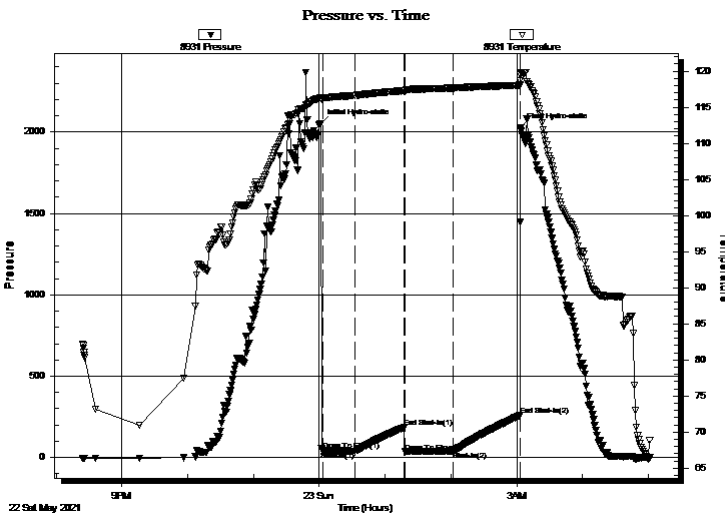
TEST COMMENT: IF: Strong Blow . B.O.B. in 1 min. Built to 41.04". (30)

IS: No Blow . (45)

FF: Strong Blow . B.O.B., Immediate. Built to 38.68". (45)

IS: No Blow . (60)

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2052.44	116.27	Initial Hydro-static
2	43.48	116.28	Open To Flow (1)
32	39.57	116.65	Shut-In(1)
77	185.41	117.29	End Shut-In(1)
78	33.41	117.25	Open To Flow (2)
122	40.97	117.66	Shut-In(2)
182	259.40	118.05	End Shut-In(2)
183	2029.20	119.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	GOSM 5%g 95%m	0.11
0.00	427' G.I.P. 100%g	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Rama Operating Co Inc

26-25s-13w Stafford,KS

101 S Main St
Stafford, KS 67578

Ruthie T #2-26

Job Ticket: 67232

DST#: 1

ATTN: Josh Austin

Test Start: 2021.05.22 @ 20:24:15

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:02:45

Time Test Ended: 05:01:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 68

Interval: 4010.00 ft (KB) To 4075.00 ft (KB) (TVD)

Reference Elevations: 1926.00 ft (KB)

Total Depth: 4075.00 ft (KB) (TVD)

1915.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8737 Outside

Press@RunDepth: psig @ 4011.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.05.22 End Date: 2021.05.23

Last Calib.: 2021.05.23

Start Time: 20:24:29 End Time: 05:01:09

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Strong Blow . B.O.B. in 1 min. Built to 41.04". (30)

IS: No Blow . (45)

FF: Strong Blow . B.O.B., Immediate. Built to 38.68". (45)

IS: No Blow . (60)

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
-------------	-----------------	--------------	------------

Recovery

Length (ft)	Description	Volume (bbl)
15.00	GOSM 5%g 95%m	0.11
0.00	427' G.I.P. 100%g	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Rama Operating Co Inc

26-25s-13w Stafford,KS

101 S Main St
Stafford, KS 67578

Ruthie T #2-26

Job Ticket: 67232

DST#: 1

ATTN: Josh Austin

Test Start: 2021.05.22 @ 20:24:15

Tool Information

Drill Pipe:	Length: 3793.00 ft	Diameter: 3.80 inches	Volume: 53.21 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 218.00 ft	Diameter: 2.80 inches	Volume: 1.66 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 54.87 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4010.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	91.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Requested Shale Packer.

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3985.00	
Shut In Tool	5.00			3990.00	
Hydraulic tool	5.00			3995.00	
EMT	3.00			3998.00	
Safety Joint	3.00			4001.00	
Packer	4.00			4005.00	26.00 Bottom Of Top Packer
Packer	5.00			4010.00	
Stubb	1.00			4011.00	
Recorder	0.00	8931	Inside	4011.00	
Recorder	0.00	8737	Outside	4011.00	
Perforations	2.00			4013.00	
Change Over Sub	1.00			4014.00	
Blank Spacing	32.00			4046.00	
Change Over Sub	1.00			4047.00	
Perforations	25.00			4072.00	
Bullnose	3.00			4075.00	65.00 Bottom Packers & Anchor
Total Tool Length:	91.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Rama Operating Co Inc

26-25s-13w Stafford,KS

101 S Main St
Stafford, KS 67578

Ruthie T #2-26

Job Ticket: 67232

DST#: 1

ATTN: Josh Austin

Test Start: 2021.05.22 @ 20:24:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

4000 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: 4000.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
15.00	GOSM 5%g 95%m	0.114
0.00	427' G.I.P. 100%g	0.000

Total Length: 15.00 ft Total Volume: 0.114 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments: 427 Ft Gas in Pipe.

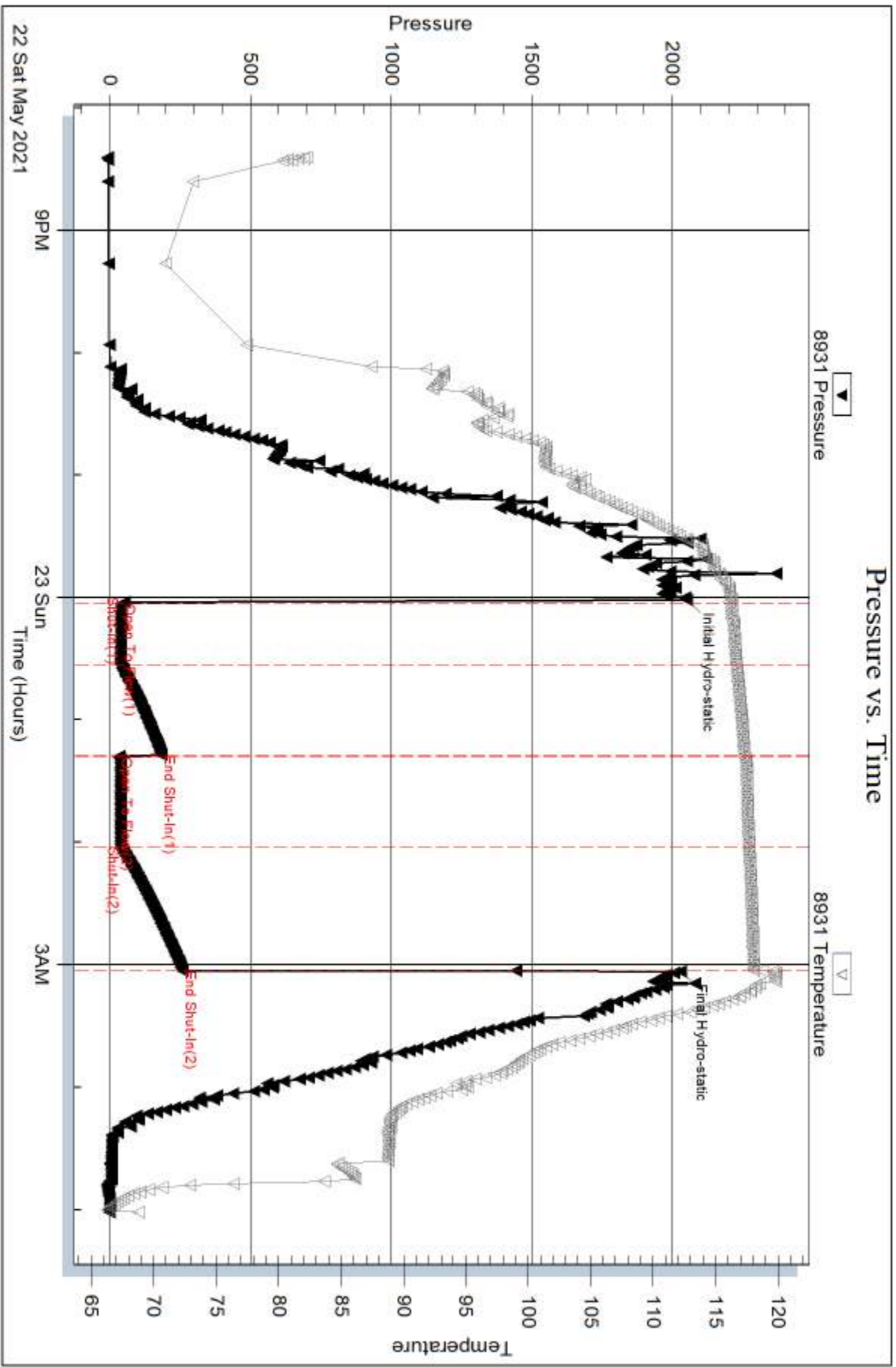
Serial #: 8931

Inside

Rama Operating Co Inc

Ruthie T#2-26

DST Test Number: 1

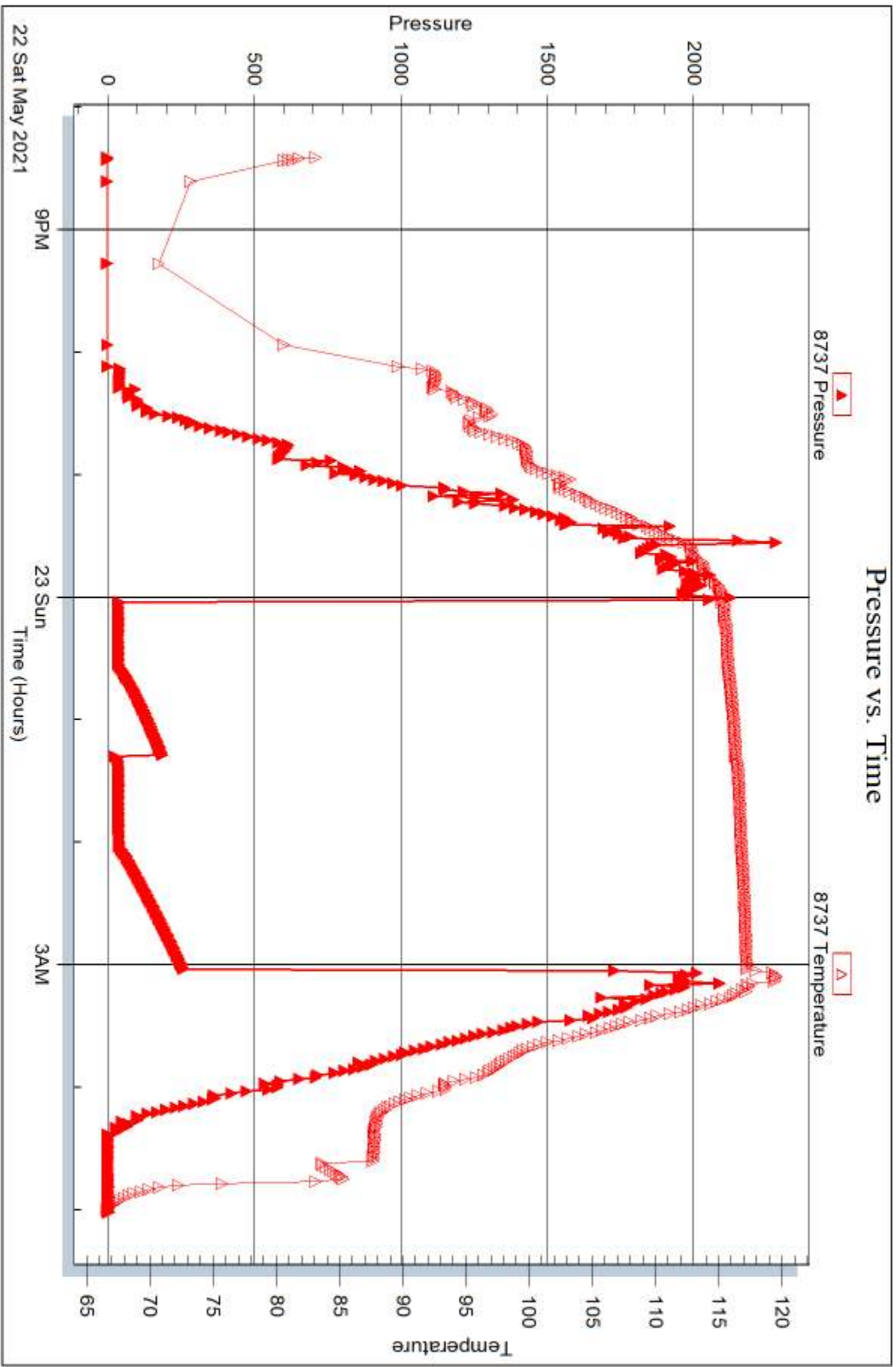


Serial #: 8737

Outside Rama Operating Co Inc

Ruthie T#2-26

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 67232

Printed: 2021.05.27 @ 11:52:19



DRILL STEM TEST REPORT

Prepared For: **Rama Operating Co Inc**

101 S Main St
Stafford, KS 67578

ATTN: Josh Austin

Ruthie T #2-26

26-25s-13w Stafford,KS

Start Date: 2021.05.23 @ 16:13:25

End Date: 2021.05.23 @ 23:06:55

Job Ticket #: 67233 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2021.05.27 @ 11:51:43



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Rama Operating Co Inc

26-25s-13w Stafford,KS

101 S Main St
Stafford, KS 67578

Ruthie T #2-26

Job Ticket: 67233

DST#: 2

ATTN: Josh Austin

Test Start: 2021.05.23 @ 16:13:25

GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:43:55

Time Test Ended: 23:06:55

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: 4165.00 ft (KB) To 4192.00 ft (KB) (TVD)

Reference Elevations: 1926.00 ft (KB)

Total Depth: 4192.00 ft (KB) (TVD)

1915.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8931

Inside

Press@RunDepth: 27.80 psig @ 4166.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.05.23

End Date:

2021.05.23

Last Calib.:

2021.05.23

Start Time: 16:13:30

End Time:

23:06:54

Time On Btm:

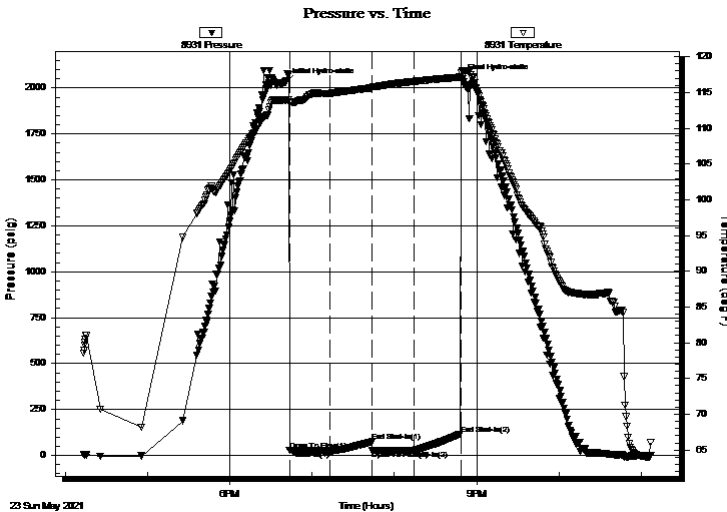
2021.05.23 @ 18:40:55

Time Off Btm:

2021.05.23 @ 20:48:40

TEST COMMENT: IF: Weak Blow . Built to 1/4". (30)
IS: No Blow . (30)
FF: Weak Blow . Built to 3.87". (30)
FS: No Blow . (30)

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2029.40	113.83	Initial Hydro-static
3	27.49	113.58	Open To Flow (1)
32	26.28	114.85	Shut-In(1)
63	75.17	115.64	End Shut-In(1)
63	27.15	115.66	Open To Flow (2)
94	27.80	116.54	Shut-In(2)
128	117.24	117.13	End Shut-In(2)
128	2052.02	117.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	GVSOCM 1%g 2%o 97%m	0.04
0.00	181' G.I.P. 100%g	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Rama Operating Co Inc

26-25s-13w Stafford,KS

101 S Main St
Stafford, KS 67578

Ruthie T #2-26

Job Ticket: 67233

DST#: 2

ATTN: Josh Austin

Test Start: 2021.05.23 @ 16:13:25

Tool Information

Drill Pipe:	Length: 3950.00 ft	Diameter: 3.80 inches	Volume: 55.41 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 218.00 ft	Diameter: 2.80 inches	Volume: 1.66 bbl	Weight to Pull Loose:	85000.00 lb
			<u>Total Volume: 57.07 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	74000.00 lb
Depth to Top Packer:	4165.00 ft			Final	75000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	27.00 ft				
Tool Length:	53.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Shale Packer Requested.

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4140.00	
Shut In Tool	5.00			4145.00	
Hydraulic tool	5.00			4150.00	
EMT	3.00			4153.00	
Safety Joint	3.00			4156.00	
Packer	4.00			4160.00	26.00 Bottom Of Top Packer
Packer	5.00			4165.00	
Stubb	1.00			4166.00	
Recorder	0.00	8931	Inside	4166.00	
Recorder	0.00	8737	Outside	4166.00	
Perforations	23.00			4189.00	
Bullnose	3.00			4192.00	27.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Rama Operating Co Inc

26-25s-13w Stafford,KS

101 S Main St
Stafford, KS 67578

Ruthie T #2-26

Job Ticket: 67233

DST#: 2

ATTN: Josh Austin

Test Start: 2021.05.23 @ 16:13:25

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

6000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.18 in³

Gas Cushion Type:

Resistivity: 6000.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	GVSOCM 1%g 2%o 97%m	0.038
0.00	181' G.I.P. 100%g	0.000

Total Length: 5.00 ft Total Volume: 0.038 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments: 181 FT of Gas in Pipe

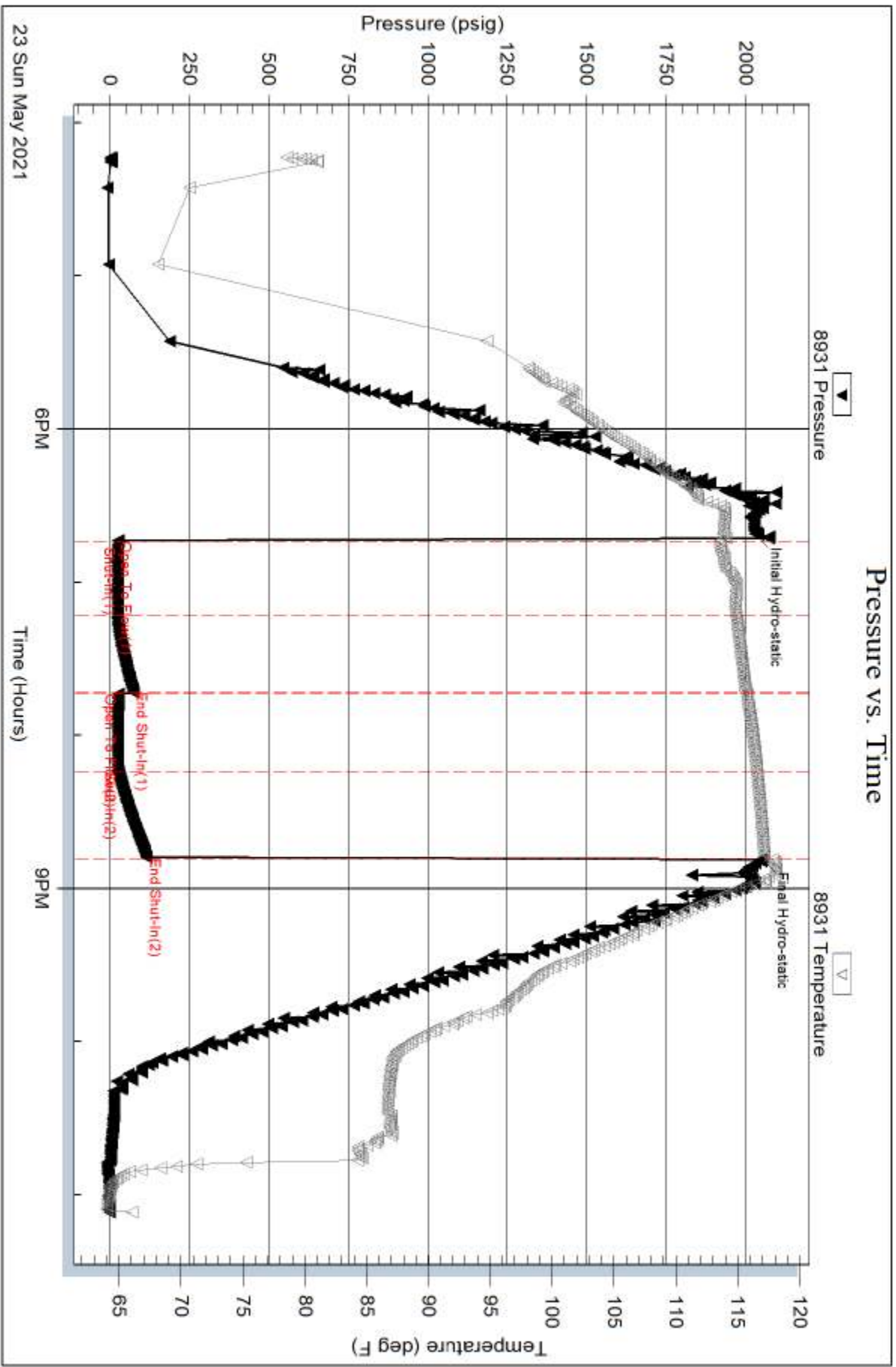
Serial #: 8931

Inside

Rama Operating Co Inc

Ruthie T#2-26

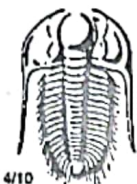
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 67233

Printed: 2021.05.27 @ 11:51:44



TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67232

Well Name & No. Ruthie T# 2-26 Test No. 1 Date 5/22/21
 Company Rama Operating Co. Inc. Elevation 1926 KB 1915 GL
 Address 101 S. Main St. Stafford, KS: 67578
 Co. Rep / Geo. Josh Austin Rig Sterling #4
 Location: Sec. 26 Twp 25S Rge. 13W Co. Stafford State KS.

Interval Tested 4010 - 4075 Zone Tested Mississippi
 Anchor Length 65' Drill Pipe Run 3793 Mud Wt. 9.2
 Top Packer Depth 4005 Drill Collars Run 218 Vis 62
 Bottom Packer Depth 4010 Wt. Pipe Run 6 WL 9.2
 Total Depth 4075 Chlorides 4000 ppm System LCM 1 1/2"

Blow Description FF: Strong Blow. B.O.B. in 1 min. Built to 41.04'

ISI! NO Blow.

FF: Strong Blow. B.O.B. immediate. Built to 38.68"

FSI!

Rec	Feet of	%gas	%oil	%water	%mud
<u>427</u>	<u>G.I.P.</u>	<u>100%</u>			
<u>15</u>	<u>GOSM</u>	<u>5%</u>			<u>95%</u>
		%gas	%oil	%water	%mud
		%gas	%oil	%water	%mud
		%gas	%oil	%water	%mud

Rec Total 15' Fluid BHT 116° Gravity N/A API RW N/A @ — ° F Chlorides 4000 ppm

(A) Initial Hydrostatic <u>2052</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>1916</u>
(B) First Initial Flow <u>43</u>	<input type="checkbox"/> Jars	T-Started <u>2024</u>
(C) First Final Flow <u>40</u>	<input type="checkbox"/> Safety Joint	T-Open <u>0002</u>
(D) Initial Shut-In <u>185</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0306</u>
(E) Second Initial Flow <u>33</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0501</u>
(F) Second Final Flow <u>41</u>	<input checked="" type="checkbox"/> Mileage <u>26</u> → <u>32.50</u>	Comments <u>Requested Shale Packer</u>
(G) Final Shut-In <u>259</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2029</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool <u>350</u>

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60

Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1582.50
 MP/DST Disc't

Approved By _____ Our Representative Matthew J. Smith

Tribolite Testing Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67233

Well Name & No. Ruthie T #2-26 Test No. 2 Date 5/23/21
 Company RAMA Operating Co. Inc. Elevation 1926 KB 1915 GL
 Address 101 S. Main St. Stafford, KS. 67578
 Co. Rep / Geo. Josh Austin Rig Sterling #4
 Location: Sec. 26 Twp 25s Rge. 13w Co. Stafford State KS.

Interval Tested 4165 - 4192 Zone Tested Simpson
 Anchor Length 27' Drill Pipe Run 3950 Mud Wt. 9.2
 Top Packer Depth 4160 Drill Collars Run 218 Vis 50
 Bottom Packer Depth 4165 Wt. Pipe Run 0 WL 11.2
 Total Depth 4192 Chlorides 6000 ppm System LCM 2nd

Blow Description IF: Weak Blow. Built to 1/4"
ISI: No Blow.
FF: Weak Blow. Built to 3.87"
FSI: No Blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>181</u>	<u>G.I.P.</u>	<u>100</u>			
<u>5</u>	<u>GUSDCM</u>	<u>1</u>	<u>2</u>		<u>97</u>

Rec Total 5' Fluid BHT 114° Gravity N/A API RW N/A @ — °F Chlorides 6000 ppm

- (A) Initial Hydrostatic 2029
 - (B) First Initial Flow 27
 - (C) First Final Flow 26
 - (D) Initial Shut-In 75
 - (E) Second Initial Flow 27
 - (F) Second Final Flow 28
 - (G) Final Shut-In 117
 - (H) Final Hydrostatic 2052
- Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

- Test 1300
 - Jars
 - Safety Joint
 - Circ Sub
 - Hourly Standby
 - Mileage (26) x2 65
 - Sampler
 - Straddle
 - Shale Packer 250
 - Extra Packer
 - Extra Recorder
 - Day Standby
 - Accessibility
- Sub Total 1615

- T-On Location 1540
- T-Started 1613
- T-Open 1843
- T-Pulled 2055
- T-Out 2306
- Comments (5/24/21) 10:45A
P.I.U.T.T.
- EM Tool 350
- Ruined Shale Packer
- Ruined Packer
- Extra Copies
- Sub Total 0
- Total 1615
- MP/DST Disc't

Approved By _____ Our Representative Matthew Smith

TriLOBITE TESTING INC. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



Joshua R. Austin
Petroleum Geologist
report for
RAMA OPERATING CO., INC



COMPANY: RAMA OPERATING COMPANY INC.

LEASE: RUTHIE 'T' #2-26

FIELD: Leiss Southeast

LOCATION: SW-SE-NE-NE
1260' FNL & 445' FEL

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

COUNTY: Stafford **STATE:** Kansas

KB: 1926' **GL:** 1915'

API # 15-185-24080-00-00

CONTRACTOR: Sterling Drilling Co (Rig #4)

Spud: 5/17/2021 **Comp:** 5/24/2021

RTD: 4290' **LTD:** 4289'

Mud Up: 2839' **Type Mud:** Chemical was displaced

Samples Saved From: 3200' to RTD

Drilling Time Kept From: 3000' to RTD

Samples Examined From: 3200' to RTD

Geological Supervision From: 3300' to RTD

Geologist on Well: Josh Austin

Surface Casing: 8 5/8" @ 328'

Production Casing: 5 1/2" @ 4289'

Electronic Surveys: Midwest Wireline

NOTES

After reviewing the electric log and the shows in the samples, it was recommended by all parties involved in the Ruthie 'T' 2-26 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					COMPARISON WELL				COMPARISON WELL				COMPARISON WELL				
Ruthie 'T' 2-26					Ruthie 'T' 1-26				Russell A 1 26-25-13w				R Russell #1 NW-SW-NW 25-25-13w				
1926 KB					1925 KB				1920 KB				1916 KB				
					Structural Relationship				Structural Relationship				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	774	-1152	762	1164	759	-1166	-14							755	-1165	-13	
B/ Anyhdrite	795	-1131	786	1140	783	-1142	-11							780	-1140	-9	
Heebner	3477	-1551	3474	-1548	3468	-1543	-8	-5	3474	-1554	3	6		3468	-1548	-3	0
Toronto	3496	-1570	3493	-1567	3487	-1562	-8	-5	3494	-1574	4	7		3487	-1567	-3	0
Douglas	3511	-1585	3514	-1588	3503	-1578	-7	-10	3511	-1591	6	3		3503	-1583	-2	-5
Brown Lime	3628	-1702	3626	-1700	3620	-1695	-7	-5	3626	-1706	4	6		3620	-1700	-2	0
Lansing	3655	-1729	3655	-1729	3646	-1721	-8	-8	3655	-1735	6	6		3646	-1726	-3	-3
Base KC	3945	-2019	3940	-2014	3934	-2009	-10	-5						3937	-2017	-2	3
Mississippi	4059	-2133	4072	-2146										4067	-2147	14	1
Viola	4101	-2175	4099	-2173										4095	-2175	0	2
Simpson Sand	4173	-2247	4170	-2244										4160	-2240	-7	-4
Arbuckle	4233	-2307	4234	-2308										4218	-2298	-9	-10
Total Depth	4290	-2364	4289	-2363	4255	-2330			3920	-2000				3920	-2000		



TRIOBITE TESTING, INC.

DRILL STEM TEST REPORT

Rama Operating Co Inc

26-25s-13w Stafford Co Ks

101 S Main St
Stafford, Ks. 67578

Ruthie T 2-26

Job Ticket: 67232

DST#: 1

ATTN: Josh Austin

Test Start: 2021.05.22 @ 20:24:15

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:02:45

Time Test Ended: 05:01:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 68

Interval: **4010.00 ft (KB) To 4075.00 ft (KB) (TVD)**

Total Depth: 4075.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1926.00 ft (KB)

1915.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8931

Inside

Press@RunDepth: 40.97 psig @ 4011.00 ft (KB)

Start Date: 2021.05.22 End Date: 2021.05.23

Start Time: 20:24:20 End Time: 05:01:00

Capacity: 8000.00 psig

Last Calib.: 2021.05.23

Time On Btm: 2021.05.23 @ 00:01:00

Time Off Btm: 2021.05.23 @ 03:03:15

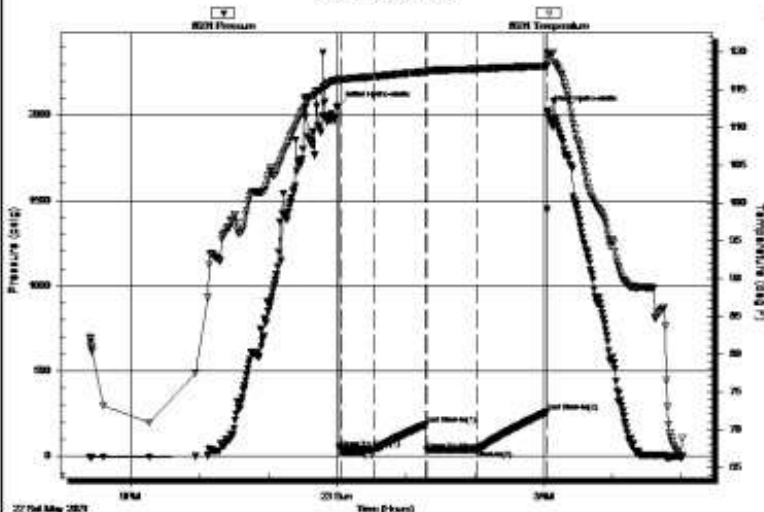
TEST COMMENT: F: Strong Blow . B.O.B. in 1 min. Built to 41.04". (30)

IS: No Blow . (45)

FF: Strong Blow . B.O.B., Immediate. Built to 38.68". (45)

IS: No Blow . (60)

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2052.44	116.27	Initial Hydro-static
2	43.48	116.28	Open To Flow (1)
32	39.57	116.65	Shut-In(1)
77	185.41	117.29	End Shut-In(1)
78	33.41	117.25	Open To Flow (2)
122	40.97	117.66	Shut-In(2)
182	259.40	118.05	End Shut-In(2)
183	2029.20	119.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	GOSM 5%g 95%m	0.11
0.00	427' G.I.P. 100%g	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Rama Operating Co Inc

101 S Main St
Stafford, Ks. 67578

ATTN: Josh Austin

26-25s-13w Stafford Co Ks

Ruthie T 2-26

Job Ticket: 67233

DST#: 2

Test Start: 2021.05.23 @ 16:13:25

GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:43:55

Time Test Ended: 23:06:55

Interval: **4165.00 ft (KB) To 4192.00 ft (KB) (TVD)**

Total Depth: 4192.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Reference Elevations: 1926.00 ft (KB)

1915.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8931

Inside

Press@RunDepth: 27.80 psig @ 4166.00 ft (KB)

Start Date: 2021.05.23

End Date:

2021.05.23

Start Time: 16:13:30

End Time:

23:06:54

Capacity: 8000.00 psig

Last Calib.: 2021.05.23

Time On Btm: 2021.05.23 @ 18:40:55

Time Off Btm: 2021.05.23 @ 20:48:40

TEST COMMENT:

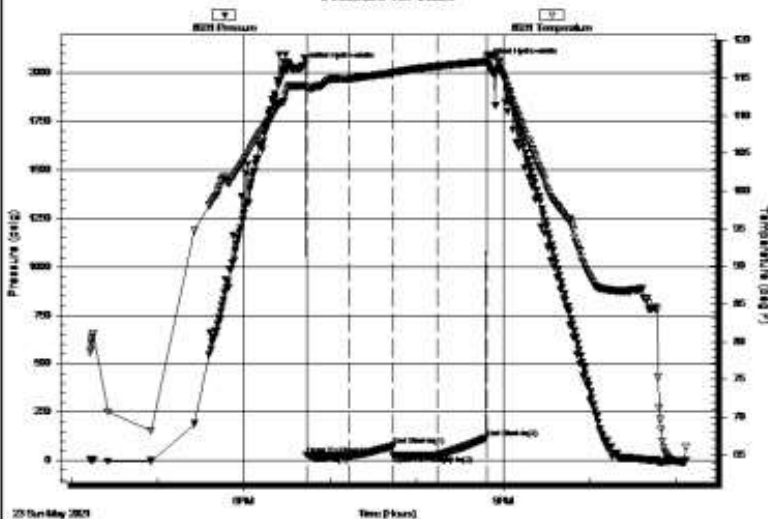
IF: Weak Blow . Built to 1/4". (30)

IS: No Blow . (30)

FF: Weak Blow . Built to 3.87". (30)

FST: No Blow . (30)

Pressure vs. Time



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2029.40	113.83	Initial Hydro-static
3	27.49	113.58	Open To Flow (1)
32	26.28	114.85	Shut-In(1)
63	75.17	115.64	End Shut-In(1)
63	27.15	115.66	Open To Flow (2)
94	27.80	116.54	Shut-In(2)
128	117.24	117.13	End Shut-In(2)
128	2052.02	117.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	GVSOCM 1%g 2%o 97%m	0.04

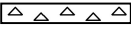








Gas Rates

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

0.00	181' G.I.P. 100%g	0.00

* Recovery from multiple tests

ROCK TYPES

 Cht	 Dolprim	 Lmst fw7>	 Shgy	 Shcol
 Coal	 Lmst fw<7	 Ss	 Shblk	

OTHER SYMBOLS

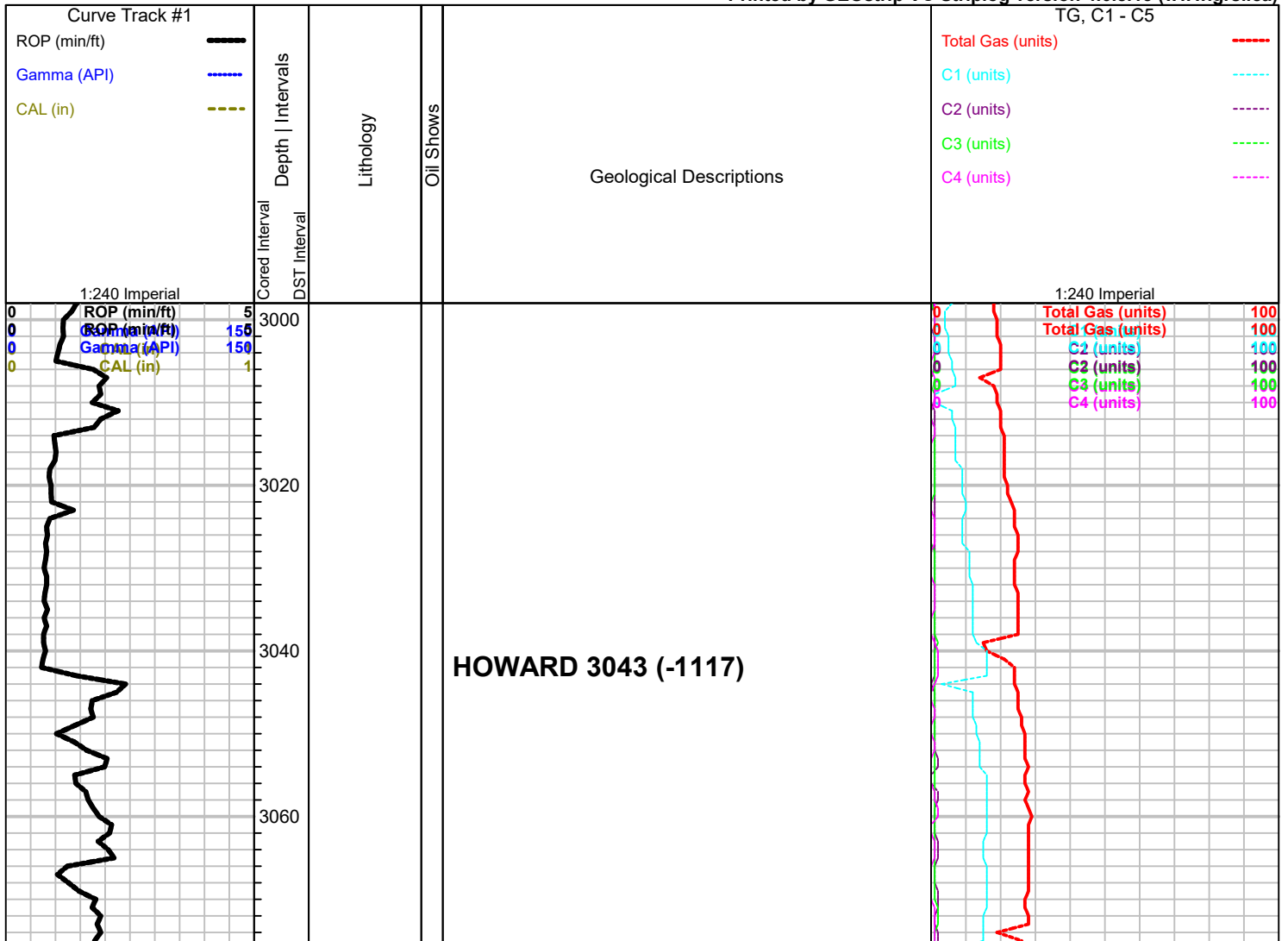
OIL SHOWS

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

INTERVALS

- Core
- DST

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)



3080
3100
3120
3140
3160
3180
3200
3220
3240
3260
3280

SEVERY 3105 (-1179)

TOPEKA 3137 (-1211)

Wet and Dry Samples 3200'-RTD

Limestone; cream-lt. grey, fine xln, chalky, slighty fossiliferous, few calcite inclusions, plus grey fossiliferous, Chert

Limestone; cream-tan, fine-medium xln, dense, few granular pieces, plus Chert as above

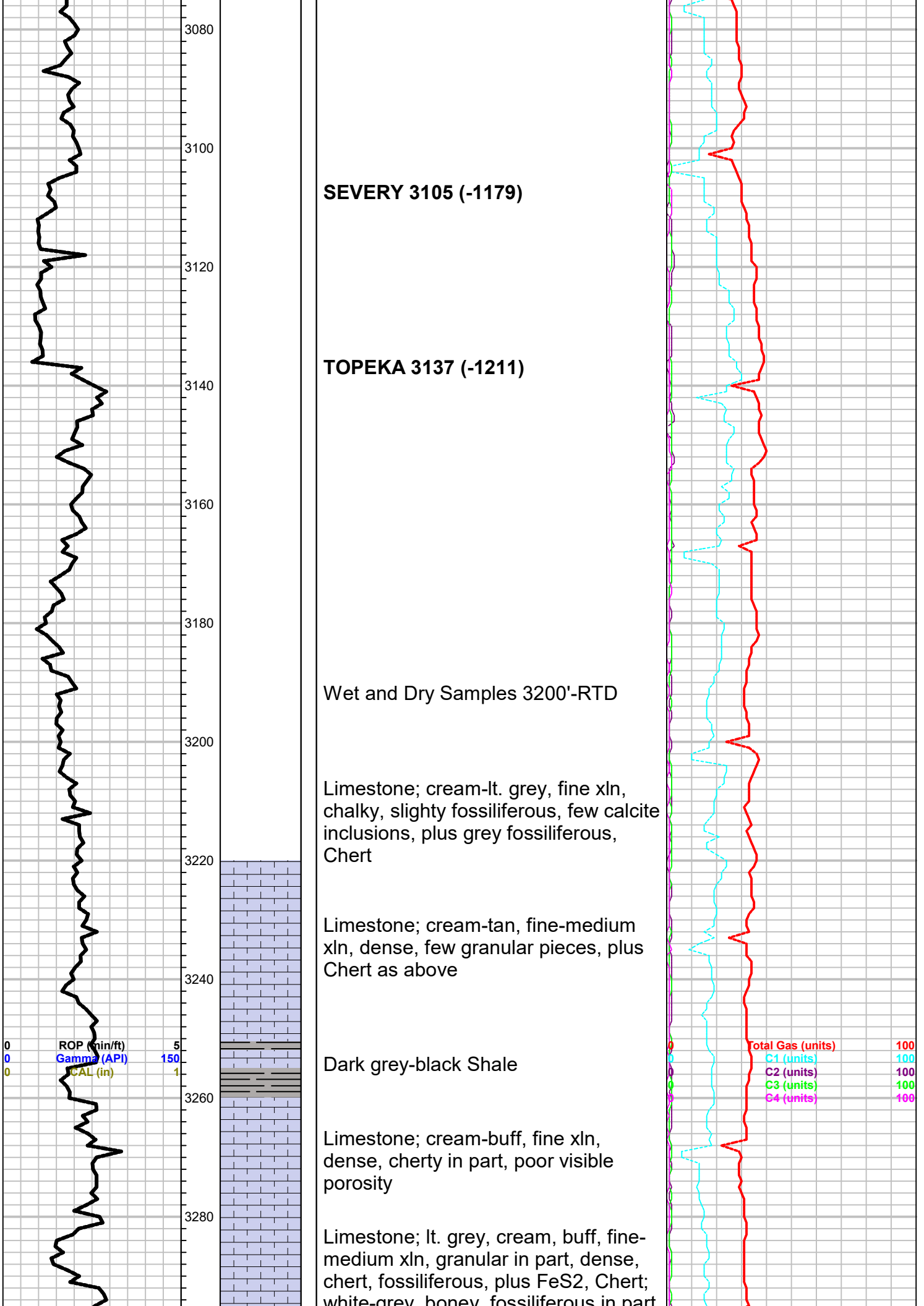
Dark grey-black Shale

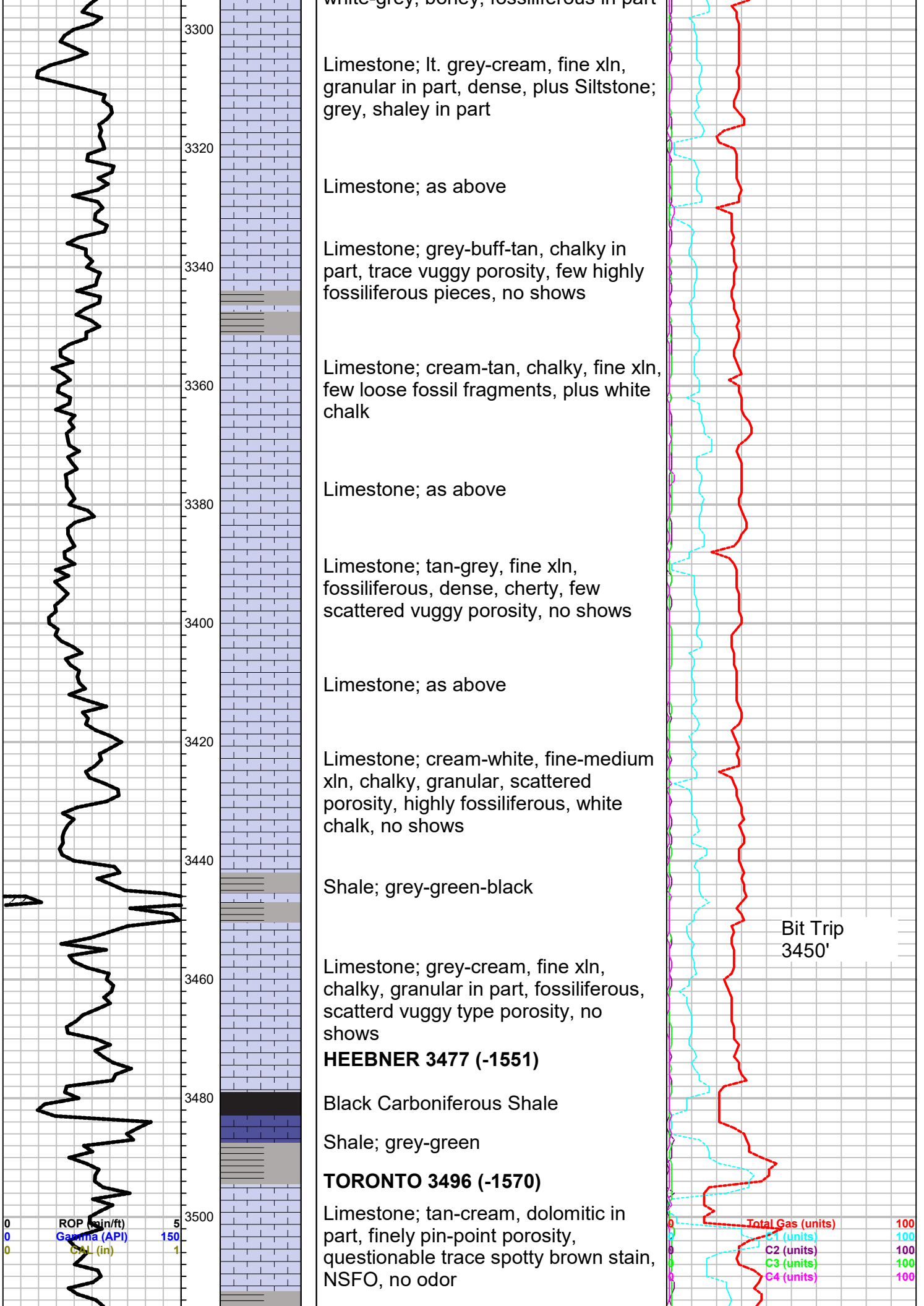
Limestone; cream-buff, fine xln, dense, cherty in part, poor visible porosity

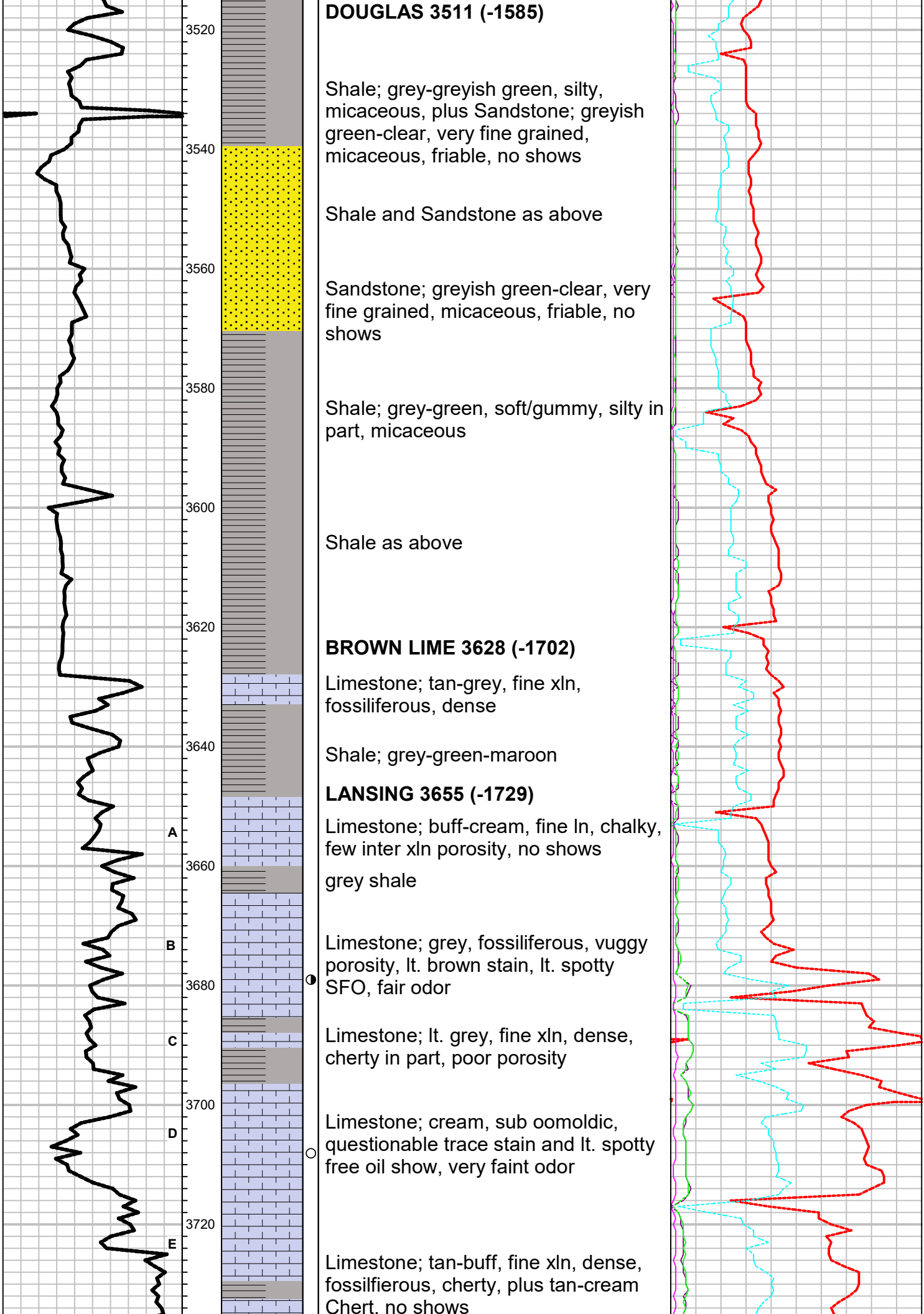
Limestone; lt. grey, cream, buff, fine-medium xln, granular in part, dense, chert, fossiliferous, plus FeS2, Chert; white-grey honey fossiliferous in part

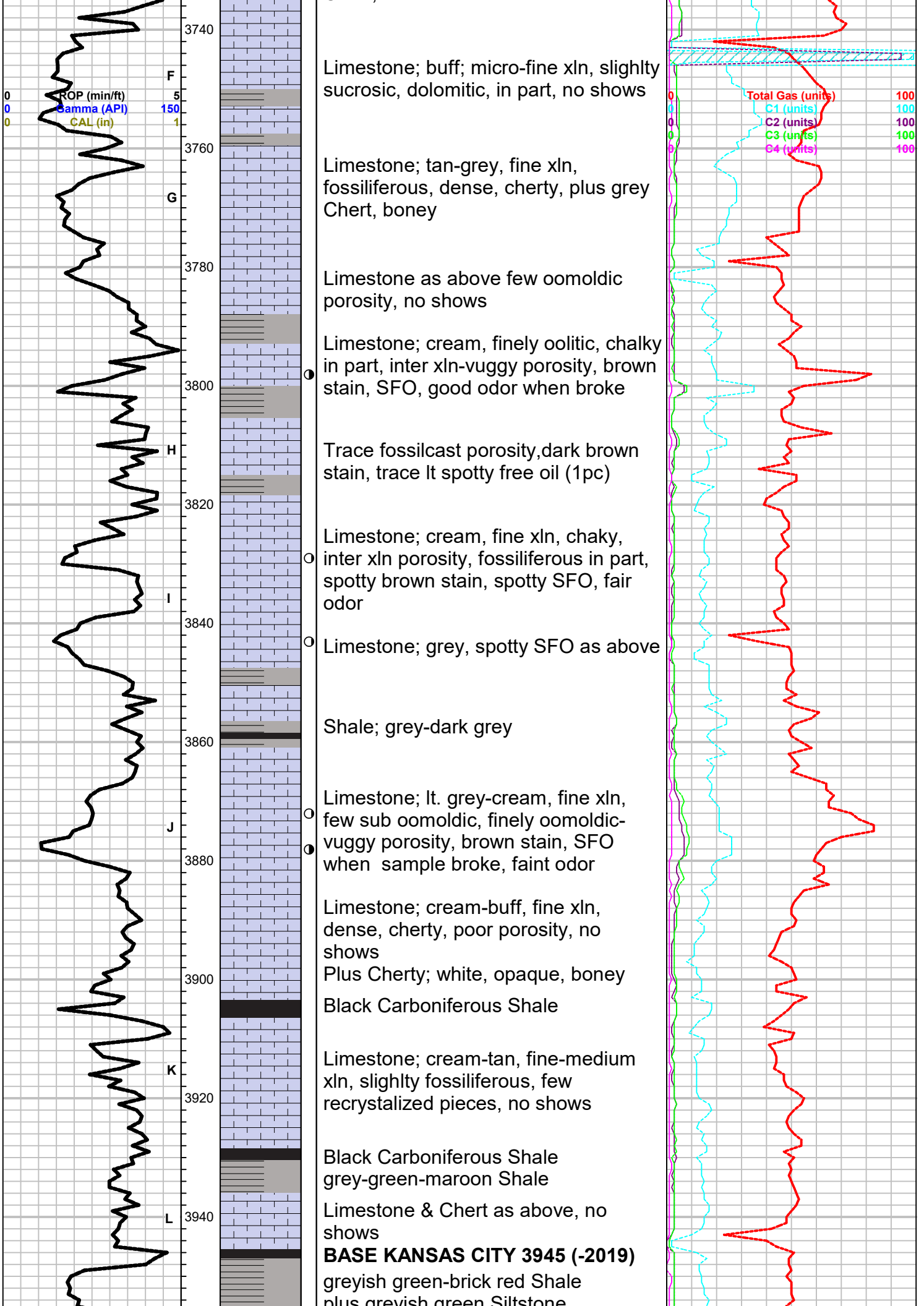
ROP (min/ft) 5
Gamma (API) 150
CAL (in) 1

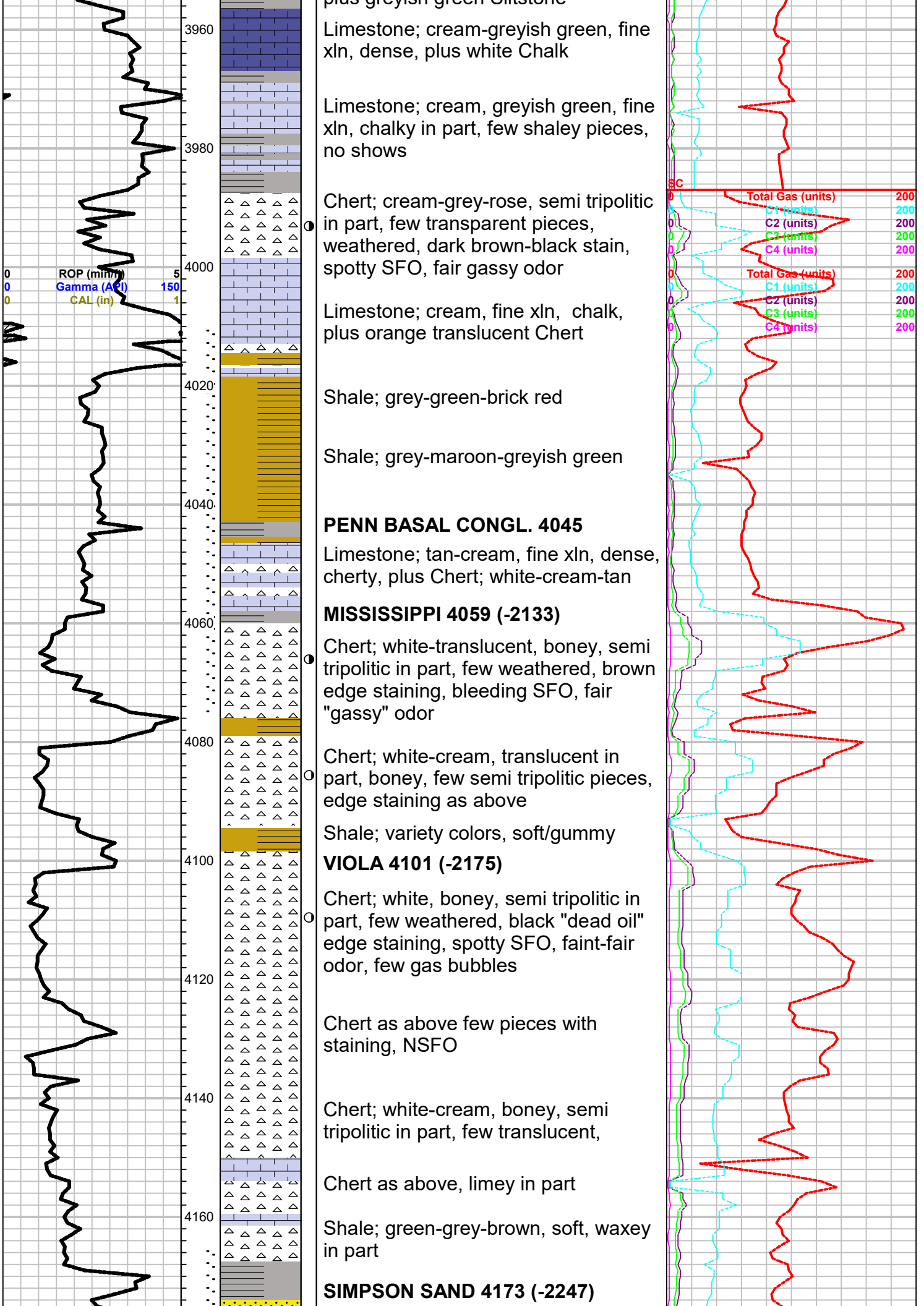
Total Gas (units) 100
C1 (units) 100
C2 (units) 100
C3 (units) 100
C4 (units) 100

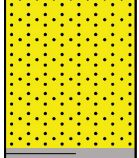
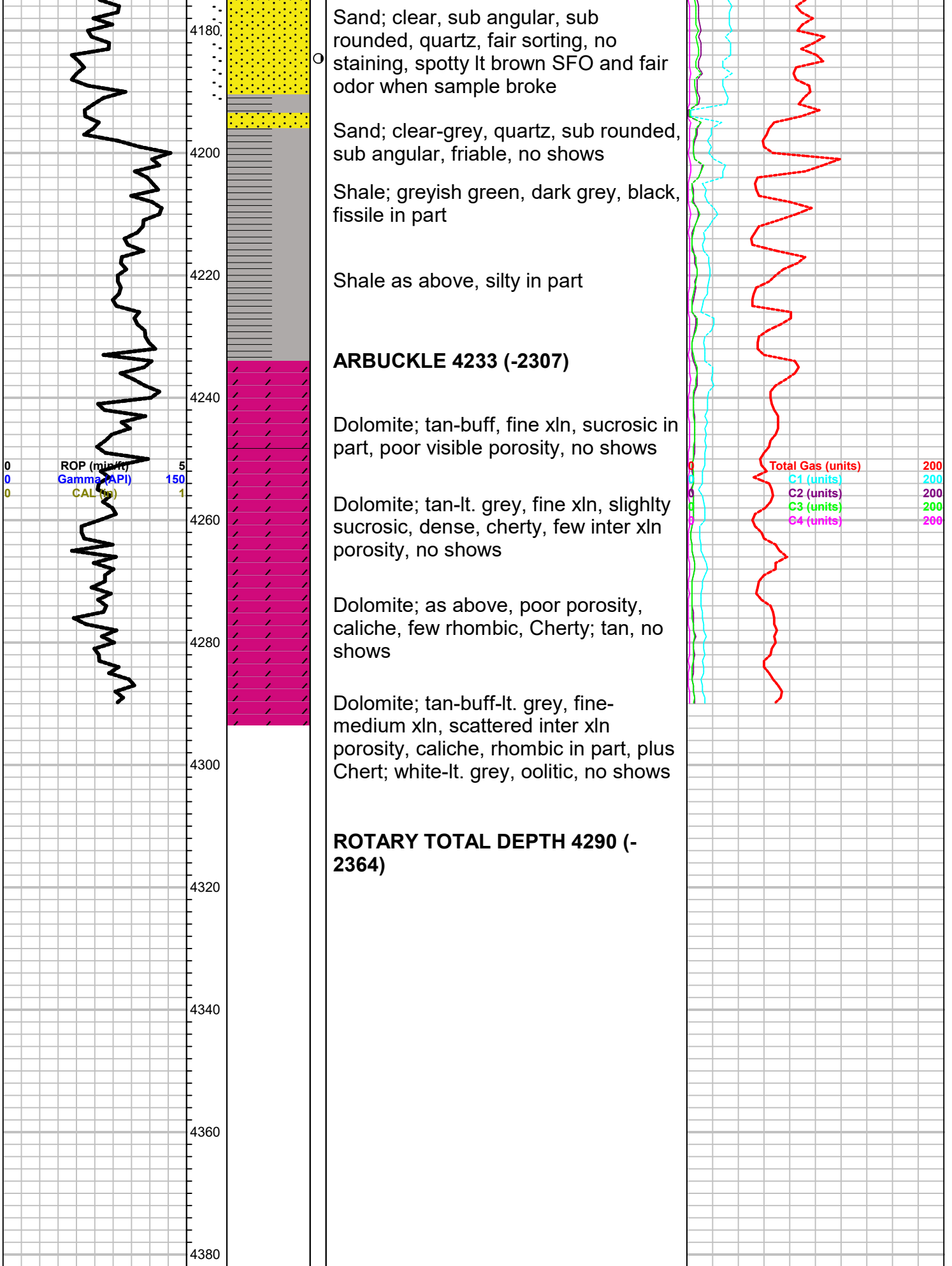




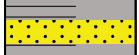




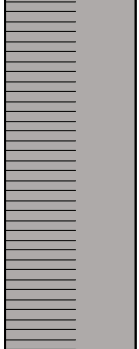




Sand; clear, sub angular, sub rounded, quartz, fair sorting, no staining, spotty lt brown SFO and fair odor when sample broke



Sand; clear-grey, quartz, sub rounded, sub angular, friable, no shows



Shale; greyish green, dark grey, black, fissile in part

Shale as above, silty in part

ARBUCKLE 4233 (-2307)



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

Dolomite; tan-lt. grey, fine xln, slightly sucrosic, dense, cherty, few inter xln porosity, no shows

Dolomite; as above, poor porosity, caliche, few rhombic, Cherty; tan, no shows

Dolomite; tan-buff-lt. grey, fine-medium xln, scattered inter xln porosity, caliche, rhombic in part, plus Chert; white-lt. grey, oolitic, no shows

ROTARY TOTAL DEPTH 4290 (-2364)

4180
4200
4220
4240
4260
4280
4300
4320
4340
4360
4380



CEMENT TREATMENT REPORT

Customer: Rama Operating Company	Well: Ruthie T 2-26	Ticket: WP1420
City, State:	County: Stafford, Kansas	Date: 5/25/2021
Field Rep: Randy Ginest	S-T-R: 26-25s-13w	Service: Longstring

Downhole Information	
Hole Size:	7 7/8 In
Hole Depth:	4290 ft
Casing Size:	5 1/2 in
Casing Depth:	4290 ft
Tubing / Liner:	In
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	104.0 bbls

Calculated Slurry - Lead	
Blend:	H-Long
Weight:	15.0 ppg
Water / Sx:	6.0 gal / sx
Yield:	1.42 ft³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	31.6 bbls
Total Sacks:	125 sx

Calculated Slurry - Tail	
Blend:	H-Plug
Weight:	13.78 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.43 ft³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	8.2 bbls
Total Sacks:	50 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
6:30 PM			-	-	On Location - Job & Safety
6:46 PM			-	-	Spot Trucks & Rig Up
			-	-	
			-	-	Centralzers on 2,4,6,9, 12
2:00 AM			-	-	Start Casing
4:00 AM			-	-	Casing On Bottom
			-	-	
4:20 AM			-	-	Rig Up to Casing and Circulate
5:15 AM			-	-	Start Flush
5:20 AM	3.5	160.0	12.0	12.0	Flush In
				12.0	
5:25 AM			7.8		Plug Rathole with 30 sacks H-Plug
			5.0		Plug Mousehole with 20 sacks H-Plug
5:35 AM					Start Cement Down Hole
5:50 AM	5.5	350.0	31.6		Cement In
					Wash Pump & Line
6:00 AM					
	3.0	450.0	96.0		
6:30 AM		450.0	107.0		Displacement In - Took Pressure From 450 to 960
					Plug Did Land and Float & Plug Did Hold

CREW		UNIT	SUMMARY		
Cementer:	M. Brungardt	916	Average Rate	Average Pressure	Total Fluid
Pump Operator:	G. McLemore	176/521	4.0 bpm	360 psi	259 bbls
Bulk #1:	J. Trevino	181/532			
Bulk #2:					