

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
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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				

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)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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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:	
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Form	ACO1 - Well Completion
Operator	Rama Operating Co., Inc.
Well Name	HILLARD 5-1
Doc ID	1515737

Tops

Name	Top	Datum
Heebner	3538	-1681
Toronto	3552	-1695
Brown Lime	3720	-1863
Lansing	3740	-1883
Base KC	4088	-2231
Mississippi	4192	-2335
Viola	4246	-2389
Simpson Shale	4286	-2429
Uper Sand	4290	-2433
Lower Sand	4322	-2465
Arbuckle	4412	-2568
RTD	4623	-2566





# QUALITY WELL SERVICE, INC.

7405

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-727-3410

Fax 620-672-3663

Rich's Cell 620-727-3409

Brady's Cell 620-727-6964

Date	5-9-20	Sec.	1	Twp.	28S	Range	13W	County	PRATT	State	Ks	On Location		Finish	
Lease	H. LIARD			Well No.	5-1			Location PRATT KS HWY 54! PRATT CO LAKE							
Contractor	STEELING DELA RIG #1							Owner 1/4 E S 1/4 D110							
Type Job	35/3							To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size	12 1/4			T.D.	1115'			Charge To RAMA OPERATING CO INC							
Csg.	35/3 28"			Depth	1110.17			Street							
Tbg. Size				Depth				City							
Tool				Depth				State							
Cement Left in Csg.				Shoe Joint	4051			The above was done to satisfaction and supervision of owner agent or contractor.							
Meas Line				Displace	66.75			Cement Amount Ordered 200# 60/40 2' FEL 3' CL 1/2' PS							
<b>EQUIPMENT</b>										100 # mdc 3' CL 1/2' PS					
Pumptrk	8	No.						Common	120#						
Bulktrk	10	No.						Poz. Mix	80#						
Bulktrk	15	No.						Gel.	344#						
Pickup		No.						Calcium	798#						
<b>JOB SERVICES &amp; REMARKS</b>										Hole mdc 100#					
Rat Hole								Salt							
Mouse Hole								Flowseal 150#							
Centralizers	23						Kol-Seal								
Baskets	20-23						Mud CLR 48								
D/V or Port Collar								CFL-117 or CD110 CAF 38							
Run 28 3/4's 35/3 28" SET @ 1110.17										Sand					
CSG on Bottom Hookup to CSG										Handling 320					
BREAK CIR W/ RIG DROP BALL + CIR										Mileage 101/3750					
START Pumping H2O										35/3 <b>FLOAT EQUIPMENT</b>					
START Mix Pump 100# mdc @ 12' / gal										Guide Shoe 1 EA					
START Mix Pump 200# 60/40 2' FEL 3' CL 1/2'										Centralizer 1 EA					
SHUT DOWN RELEASE 35/3 TR PLUG										Baskets 2 EA					
START DIS										AFU Inserts 1 EA					
PLUG DOWN 67 BBLs @ 1000'										Float Shoe TOP RUBBER PLUG 1 EA					
Good circ thru JOB										Latch Down Horn - 1					
CIRC CNT to PIT LET SET 1 hr										SERVICE Spv 1 EA					
Fell about 1' LEASED LEFT TOOLS on LOC										LMV 10					
										Pumptrk Charge SURFACE 2					
										Mileage 30					
THANK YOU PLEASE CALL AGAIN JAKE MILK															
X Signature <i>[Signature]</i>										Tax					
										Discount					
										Total Charge					

# QUALITY WELL SERVICE, INC.

7420

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

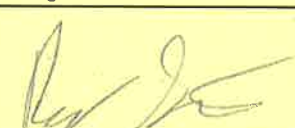
Mailing Address P.O. Box 468

Office 620-727-3410

Fax 620-672-3663

Rich's Cell 620-727-3409

Brady's Cell 620-727-6964

Date	Sec.	Twp.	Range	County	State	On Location	Finish
5-16-20	1	28S	13W	PRATT	KS		
Lease HILLARD	Well No. S-1	Location PRATT, KS HWY 54 to to LLOYD					
Contractor STEERING DRIG B.G.#1	Owner 'A E' S.W. INTO			To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Type Job 5 1/2 L.S.	T.D. 4425			Charge To Rama Operating Co., Inc			
Hole Size 7 7/8	Depth 4416			Street			
Csg. 5 1/2 14'	Depth			City State			
Tbg. Size	Depth			The above was done to satisfaction and supervision of owner agent or contractor.			
Tool	Shoe Joint 29.31			Cement Amount Ordered POOL 2:1 GEL 10% SALT			
Cement Left in Csg.	Displace			S 1/2 x Kolseal 1/4" PS			
Meas Line	EQUIPMENT			Common 150 g			
Pumptrk 8 No.				Poz. Mix			
Bulktrk 15 No.				Gel. 282 #			
Bulktrk No.				Calcium			
Pickup No.				Hulls			
JOB SERVICES & REMARKS				Salt 825 #			
Rat Hole 30 x				Flowseal 38 #			
Mouse Hole				Kol-Seal 750 #			
Centralizers 1-3-5				Mud CLR 48 500 Gal			
Baskets				CFL-117 or CD110 CAF 38 CC-1 7 Gal			
D/V or Port Collar				Sand			
Run 100 ft's used 5 1/2 14" SET 4416'				Handling 185			
CSG on Bottom - TAG Hook up to CSG				Mileage 10 / 3750			
BREAK CIRC W/ 16" DRAG BALL - CIRC W/ 20"				5 1/2 FLOAT EQUIPMENT			
START Pumping 10 Bbls H <sub>2</sub> O 12 Bbls MF 10 Bbls H <sub>2</sub> O				Guide Shoe 1 EA			
Plug Rat Hole 30 x				Centralizer 3 EA			
Mix Pump 125 g Pool @ 14.8 #/Gal				Baskets 17' m 1 EA			
SHUT DOWN Wash up + 20' RELEASE PLUG				AFU Inserts 1 EA			
START Disp 2' KCL				Float Shoe TOP RUBBER PLUG 1 EA			
Lift PS. 92 out 550"				Latch Down			
Plug down 1000" 107.02				SERVICE Spv 1 EA			
PSI up 1500"				LMU 10			
RELEASE HELD				Pumptrk Charge LS			
1/2 Bbl Back				Mileage 20			
Good Circ Thru JOB				Tax			
Thank you				Discount			
PLEASE CALL AGAIN				Total Charge			
TODD TS JAKE							



# Joshua R. Austin

## Petroleum Geologist

report for  
RAMA Operating CO., Inc



COMPANY: RAMA Operating Company, Inc.

LEASE: Hillard #5-1

FIELD: Rollingson

LOCATION: SW-SE-NW-NE (1050' FNL & 1900' FEL)

SEC: 1 TWSP: 28s RGE: 13w

COUNTY: Pratt STATE: Kansas

KB: 1857' GL: 1841

API # 15-151-22513-00-00

CONTRACTOR: Sterling Drilling (rig #4)

Spud: 5/6/2020 Comp: 5/15/2020

RTD: 4425' LTD: 4423'

Mud Up: 3116' Type Mud: Chemical was displaced

Samples Saved From: 3100' to RTD

Drilling Time Kept From: 3100' to RTD

Samples Examined From: 3100' to RTD

Geological Supervision From: 3200' to RTD

Geologist on Well: Josh Austin

Surface Casing: 13 3/8" @ 307' & 8 5/8" @ 1110'

Production Casing: 5 1/2" @ 4416'

Electronic Surveys: Pioneer Energy Services

### NOTES

On the basis of the positive structural position, shows in the samples and after reviewing the electric log, it was recommended by all parties involved in the Hillard #5-1 to run 5 1/2" production casing to further test the Simpsen Sand. A drill stem test was not ran.

**RAMA Operating Co., Inc.**  
**well comparison sheet**

DRILLING WELL

COMPARISON WELL

COMPARISON WELL



	Hillard #5-1				Hillard #4-1				Hillard #3			
	1857 KB				1856 KB				1849 KB			
	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Formation							Structural Relationship				Structural Relationship	
Heebner	3539	-1682	3538	-1681	3540	-1684	2	3	3532	-1683	1	2
Toronto	3556	-1699	3552	-1695	3554	-1698	-1	3				
Douglas	3579	-1722	3573	-1716	3576	-1720	-2	4				
Brown Lime	3724	-1867	3720	-1863	3722	-1866	-1	3	3714	-1865	-2	2
Lansing	3743	-1886	3740	-1883	3742	-1886	0	3	3732	-1883	-3	0
Base KC	4097	-2240	4088	-2231	4092	-2236	-4	5				
Mississippi	4194	-2337	4192	-2335	4188	-2332	-5	-3	4179	-2330	-7	-5
Viola	4249	-2392	4246	-2389	4243	-2387	-5	-2				
Simpson Shale	4288	-2431	4286	-2429	4282	-2426	-5	-3	4274	-2425	-6	-4
Upper Sand	4294	-2437	4290	-2433	4288	-2432	-5	-1				
Lower Sand	4324	-2467	4322	-2465	4318	-2462	-5	-3				
Arbuckle	4412	-2555	N/A	N/A	4410	-2554	-1	N/A				
Total Depth	4425	-2568	4423	-2566	4523	-2667						

**ROCK TYPES**

Cht	Dolsec	shale, gm	Carbon Sh	Sltst
Cht vari	Lmst fw7>	shale, gry	Ss	

**ACCESSORIES**

**MINERAL**

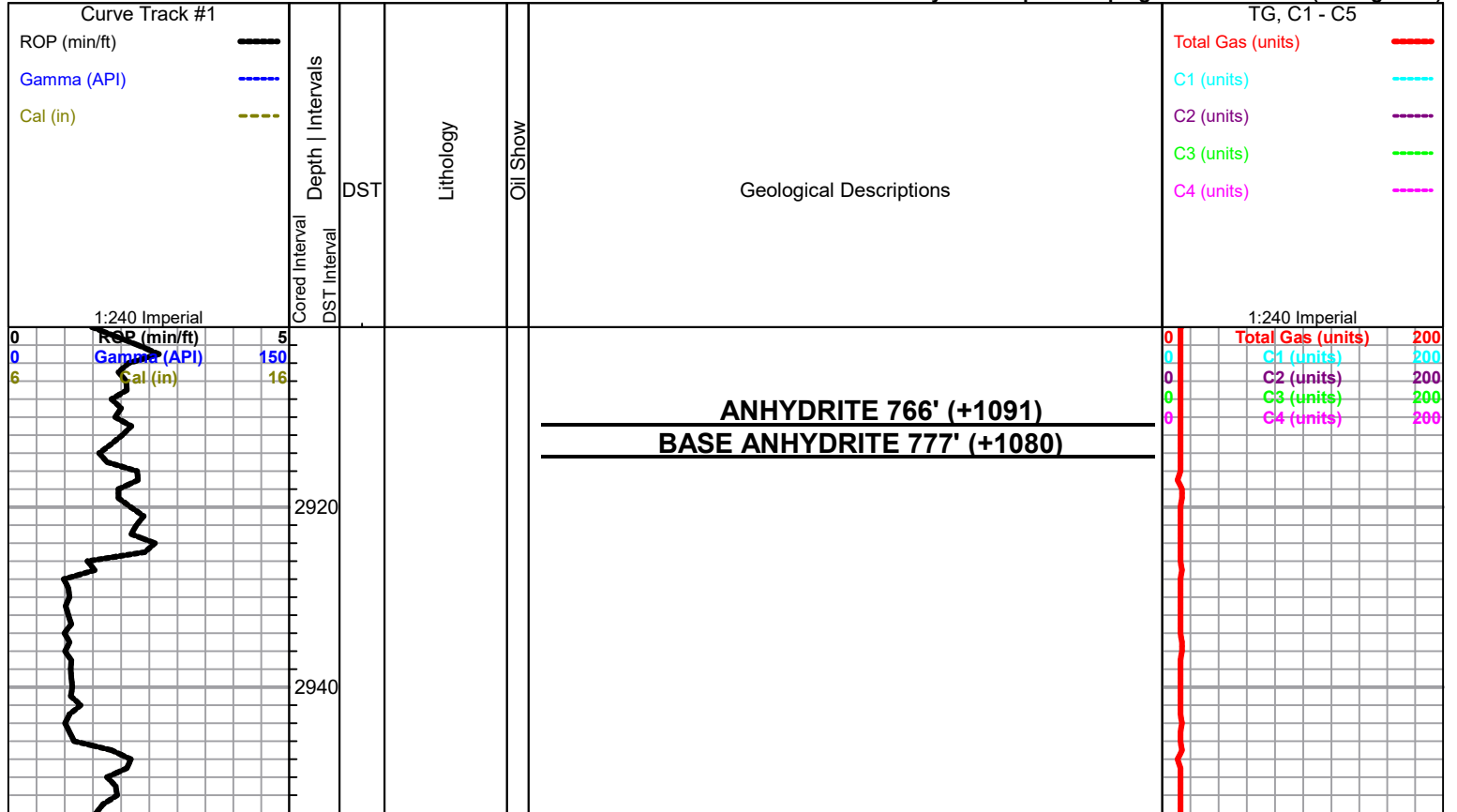
- ▲ Chert, dark
- ∩ Glauconite
- P Pyrite
- △ Chert White

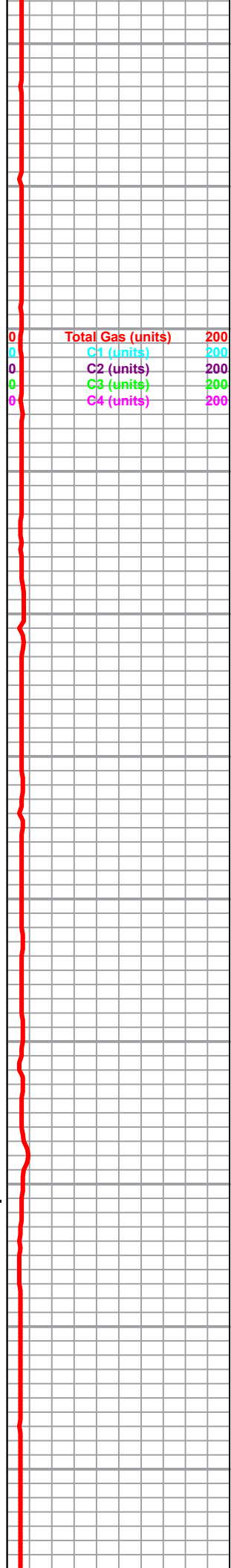
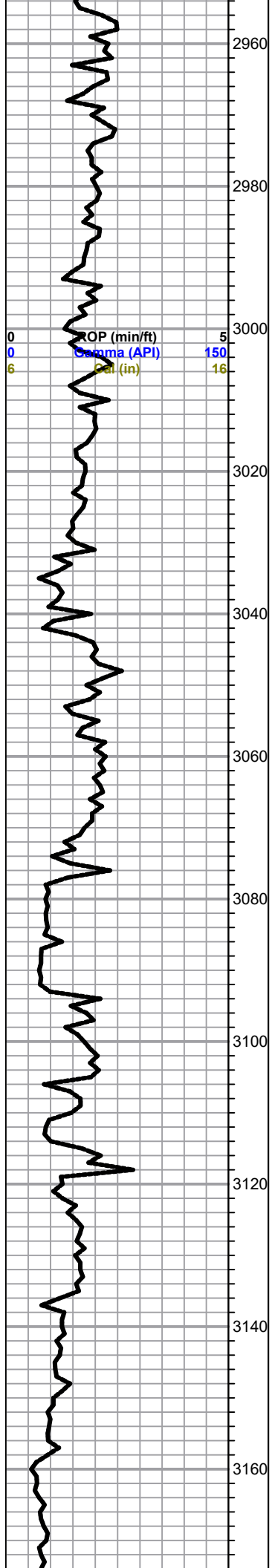
**OTHER SYMBOLS**

**DST**

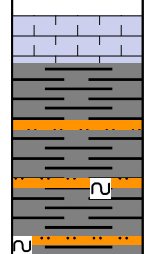
- DST Int
- DST alt
- Core
- tail pipe

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





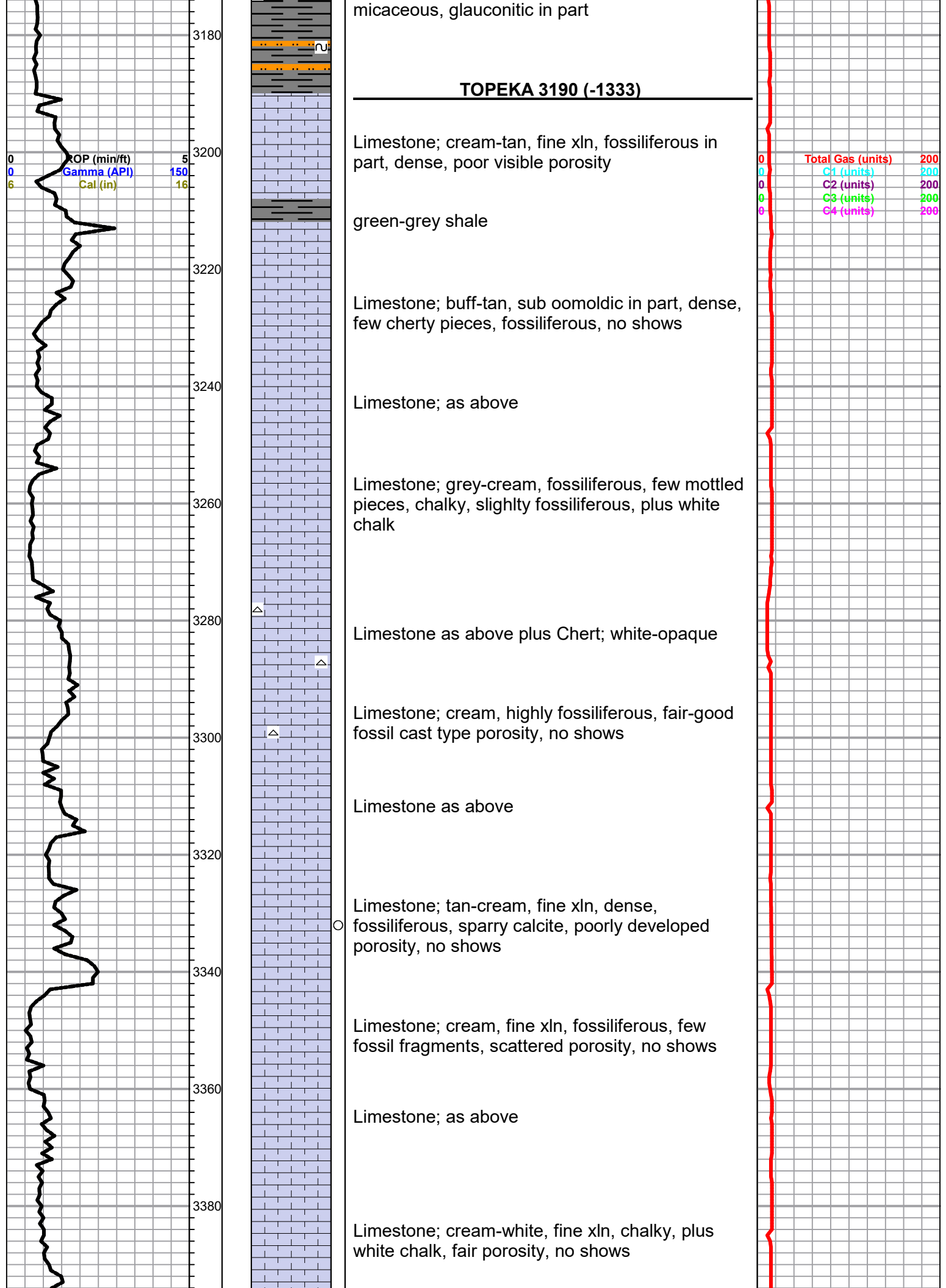
**WET AND DRY SAMPLES 3100'-RTD**

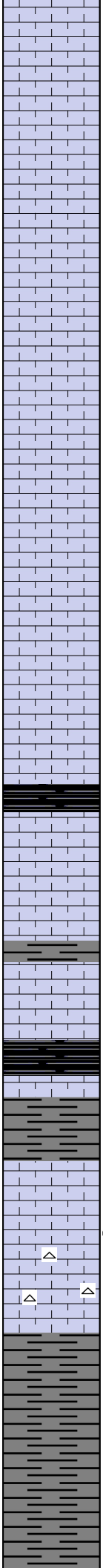
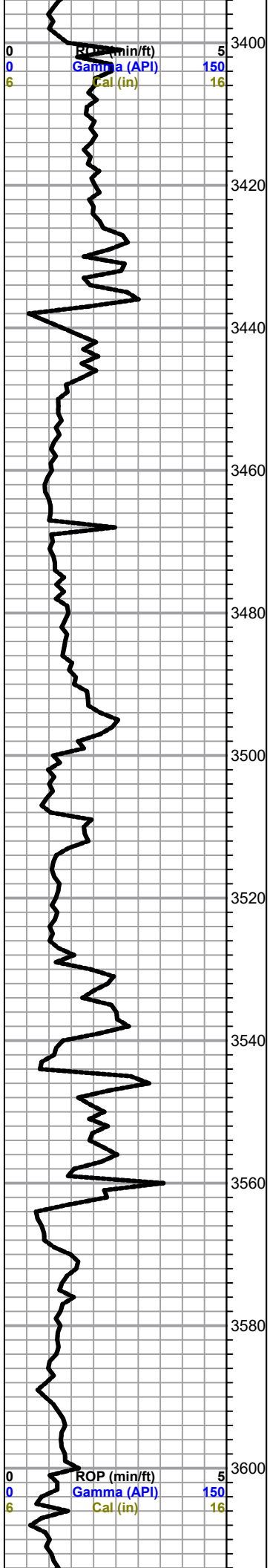


Limestone; buff-tan, fine xln, dense, chalky in part

Shale; dark grey, silty, micaceous in part

Shale as above plus Siltstone; lt. grey,





Limestone; tan, fine-medium xln, dense, slightly fossiliferous, cherty in part, poorly deviated porosity

Limestone; as above

Limestone; cream, fine xln, chalky (poor sample abundant shale)

Limestone; tan-cream, highly fossiliferous, fair fossil cast type porosity, no shows

Limestone as above

Limestone; tan-buff, fine xln, finely oolitic/fossiliferous, dense, cherty in part, no shows

black carboniferous Shale

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

grey shale

**HEEBNER 3539 (-1682)**

Black Carboniferous Shale

Shale; grey-green

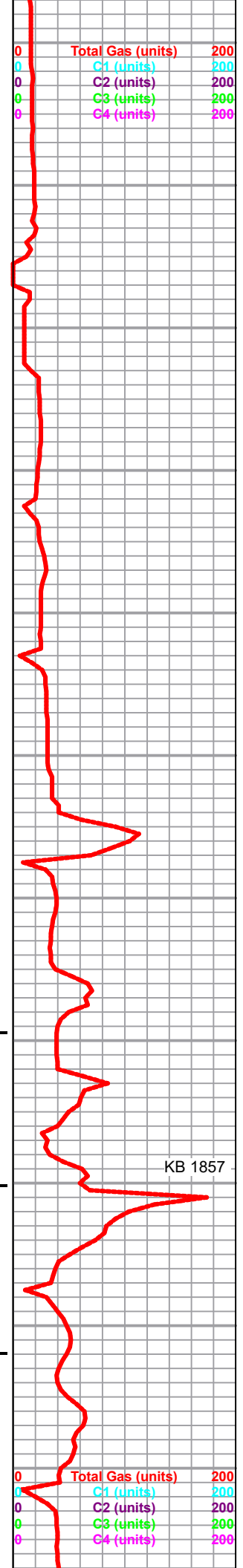
**TORONTO 3556 (-1699)**

Limestone; cream, fine xln, chalky in part, fair inter xln porosity, questionable trace spotty free oil, no odor, plus white Chert

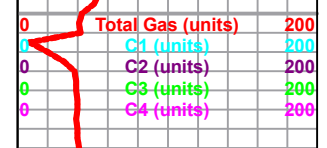
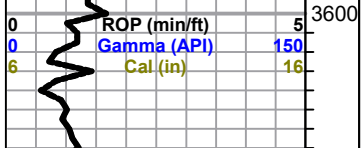
**DOUGLAS 3579 (-1722)**

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

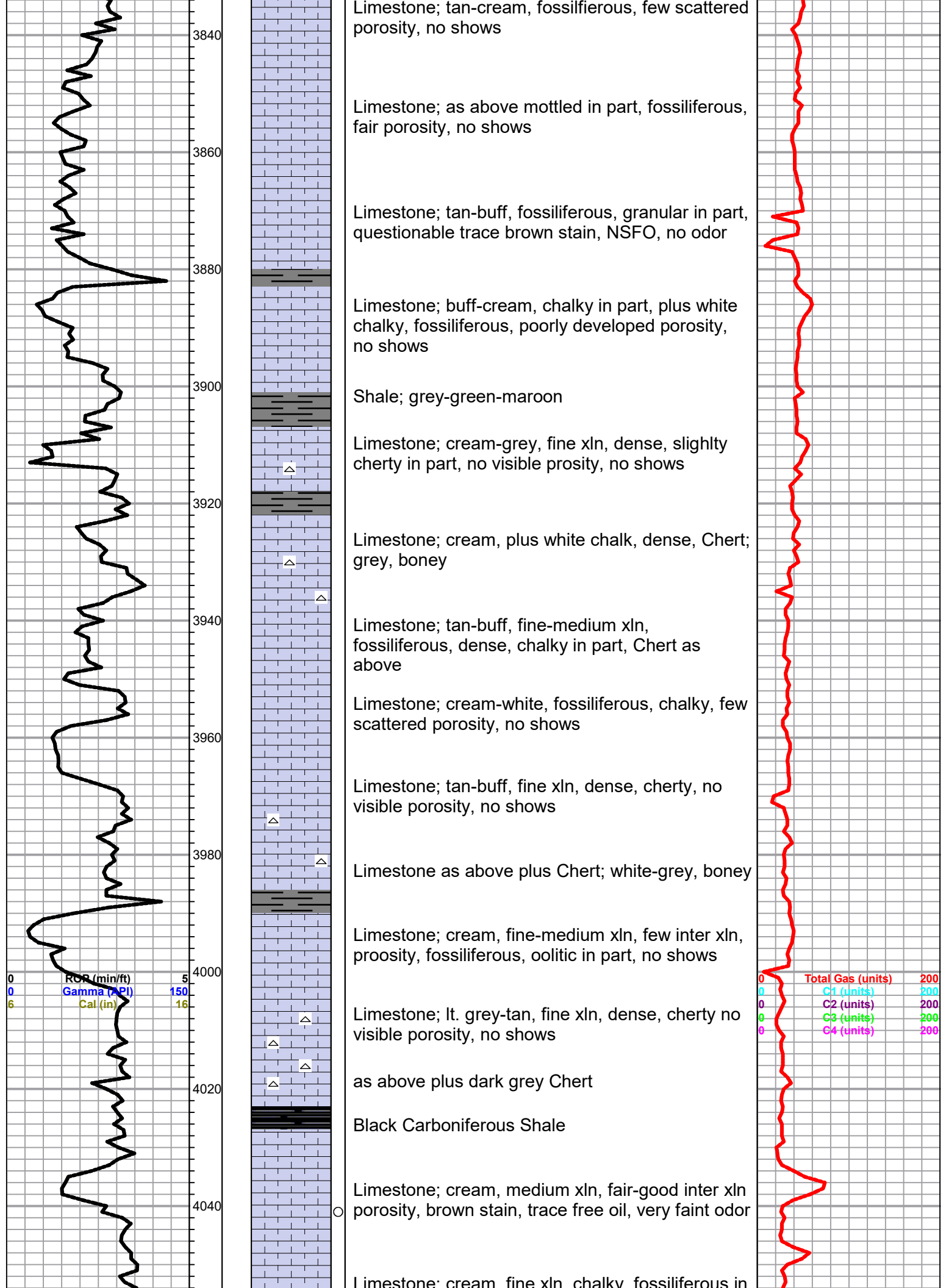
Total Gas (units) 200  
 C1 (units) 200  
 C2 (units) 200  
 C3 (units) 200  
 C4 (units) 200

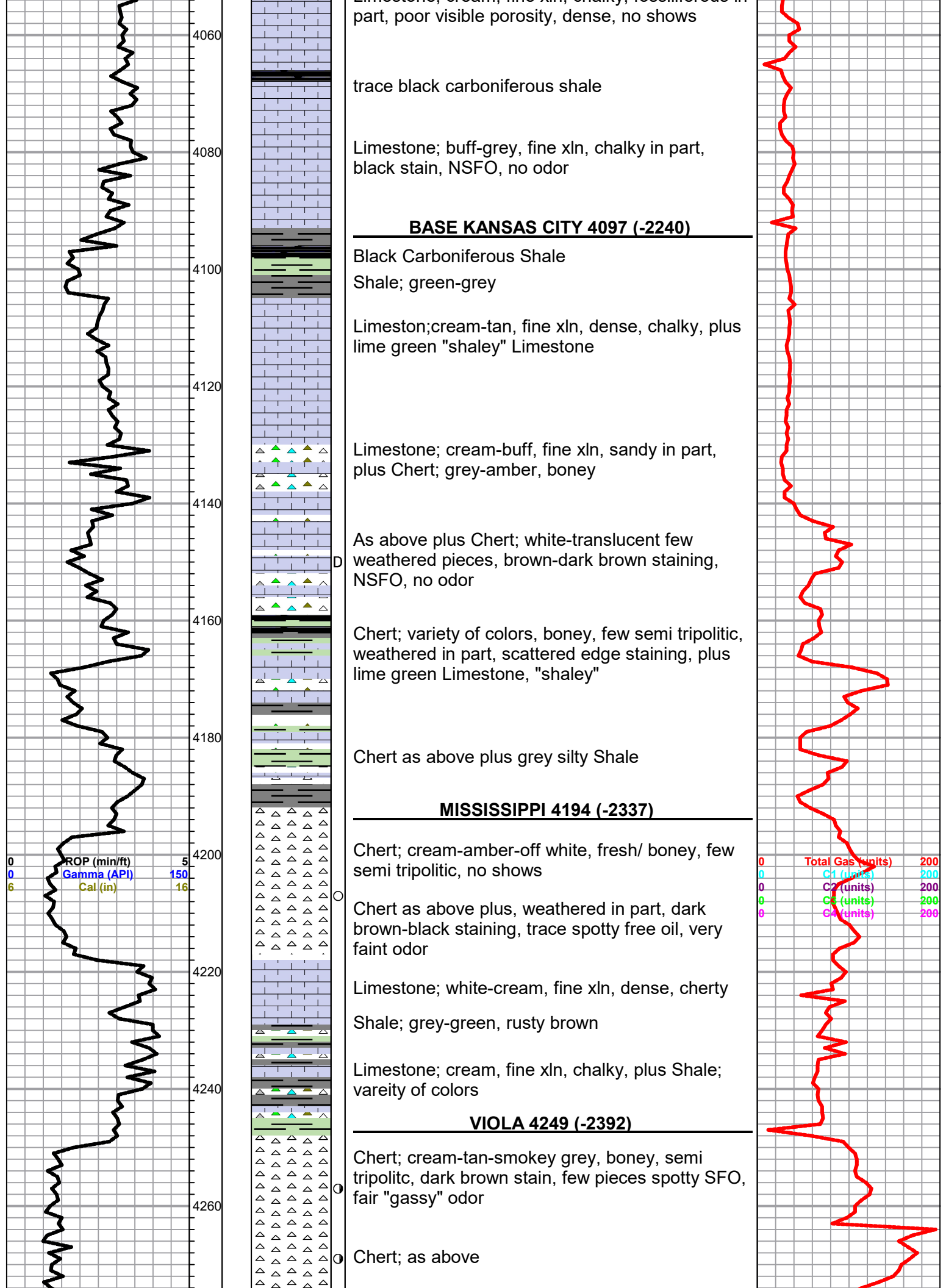


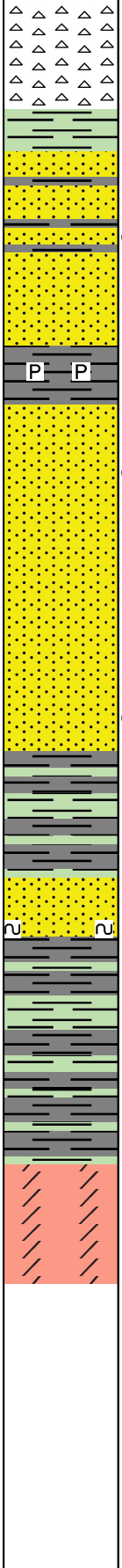
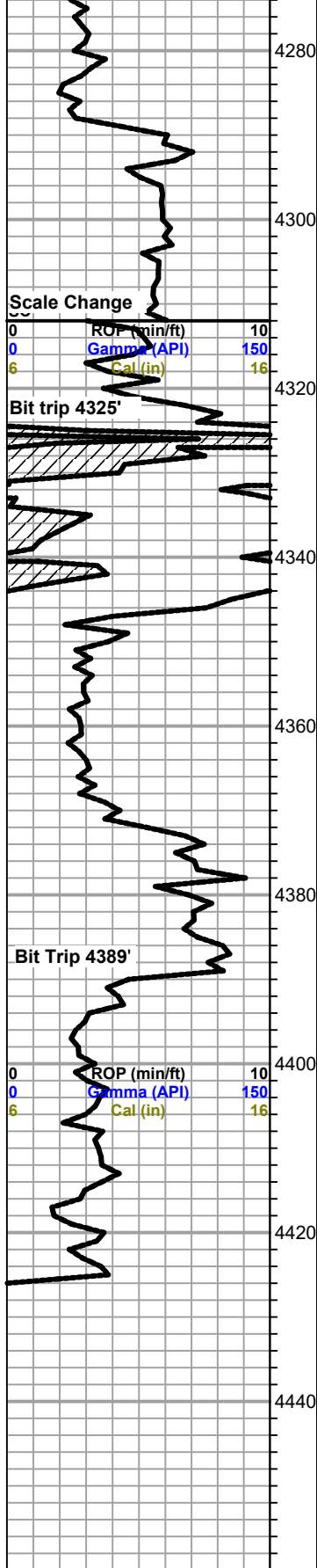
KB 1857











Chert; white, boney, semi triplotic, few black edge staining

**SIMPSON SHALE 4288 (-2431)**

Shale; green-grey, waxey

**UPPER SIMPSON SAND 4294 (-2437)**

Sand; clear-white, sub angular, sub rounded, friable, good inter granular porosity, spotty brown stain, SFO/SAT, very faint odor

Shale; gray with FeS2

**LOWER SIMPSON SAND 4324 (-2467)**

Quartzite; clear, well cemented, black-dark brown stain, SFO when sample broke, plus Sand; clear, poorly sorted, quartz inclusions, spotty stain, SFO, no odor

Quartzite and Sand as above

Sand; clear, sub angular, good intergranular porosity, brown spotty stain, SFO/SAT, fair-good odor

Shale; grey-green, micaceous in part, few silty pieces, plus FeS2

Sand; white, friable, very fine grained, sub rounded, sub angular, glauconite inclusions, no show

Shale; grey-dark grey-green, waxey

**ARBUCKLE 4412 (-2555)**

Dolomite; tan, fine xln, dense, sucrosic, few inter xln porosity, trace spotty free oil when sample broke, fair-good odor

**ROTARY TOTAL DEPTH 4425 (-2568)**

