Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1161853

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 # 34904
Name: Palmer Oil, Inc.
Address 1: 3118 N. Cummings Rd.
Address 2: PO BOX 399
City: GARDEN CITY State: KS Zip: 67846 + ____
Contact Person: joe Smith
Phone: (620) 275-9231
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Jeff Lawler
Purchaser: Velero

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 #:

07/13/2013	07/20/2013	09/23/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-189-22805-00-00
Spot Description:
NW SW NE NE Sec. 35 Twp. 31 S. R. 39 ☐ East ☑ West
720 Feet from ☑ North / ☐ South Line of Section
1200 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: Stevens
Lease Name: Cynthia Well #: 35-4
Field Name:
Producing Formation: Morrow
Elevation: Ground: 3185 Kelly Bushing: 3198
Total Vertical Depth: 6250 Plug Back Total Depth: 6000
Amount of Surface Pipe Set and Cemented at: 1744 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: 15000 ppm Fluid volume: 80 bbls
Dewatering method used: Evaporated

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: 10/08/2013
☑ **Confidential Release Date:** 10/08/2015
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 10/21/2013

1161853

Operator Name: Palmer Oil, Inc. Lease Name: Cynthia Well #: 35-4

Sec. 35 Twp. 31 S. R. 39 ☐ East ☑ West County: Stevens

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Induction
PorosityMicro

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Lansing	4026'	-828
Marmaton	4609'	-1411
Cherokee	4877'	-1679'
Morrow	5398'	-2200
St.Gen	5974'	-2776
St.Louis	6056'	-2858

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	24	1744	Class A & C	575	3%CC, 2% gel.
Production	7.875	5.50	17	6244	AA2	200	

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	-			
	-			

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 *(Amount and Kind of Material Used)*	Depth
4	5797'to 5803		
	CIBP@6000'		
4	6058'to 6064'		
	CIBP@ 6130'		
4	6135'to 6164'		

TUBING RECORD: Size: 2.375 Set At: 5980 Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR.

Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:
5797'to 5804

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

ALLIED OIL & GAS SERVICES, LLC 052481

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: LIBERAL KS

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
7/13/13	35	31S	39W			9:00PM	10:45PM

LEASE	WELL #	LOCATION	COUNTY	STATE
CYNTHIA	35-4	MOSCOW 1W TO RD Y 17W TO RD 3 1S 1/2W S/SIDE	STEVENS	KS

OLD OR (NEW) (Circle one)

CONTRACTOR DUKE #6
TYPE OF JOB 8 5/8 SURFACE
HOLE SIZE T.D.
CASING SIZE 8 5/8 24# DEPTH 1744.72
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX 1000 PSI MINIMUM 0
MEAS. LINE SHOE JOINT 42.31'
CEMENT LEFT IN CSG. 42.31'
PERFS. N/A
DISPLACEMENT 108.2 BBL

OWNER SAME

CEMENT LEAD 425 A 3%CC 2% SAL 5 2% GYP SEAL 1/4 #/SK SEAL 2.38 CU FT/SK
TAIL 150 C 2%CC

COMMON	A 425	@ 17.90	7607.50
POZMIX		@	
GEL		@	
CHLORIDE	CC 19 SK	@ 64.00	1216.00
ASC		@	
	CLASS C 150	@ 24.40	3660.00
		@	
	GYP SEAL 8 SK	@ 37.60	300.80
	FLO SEAL 106 LB	@ 2.97	314.82
	SAL 80 LB	@ 17.55	1404.00
	SODIUM METASILICATE 79 LB	@ 33.20	2636.70
	SAL 80 LB	@ 17.55	1404.00
HANDLING	629	@ 2.48	1559.92
MILEAGE	1317	2.60	3425.50
		TOTAL	23529.24

EQUIPMENT

PUMP TRUCK CEMENTER BOB RYAN #549-550
HELPER ALDO ESPINOZA
BULK TRUCK #363-528 DRIVER ERNIE SMITH
BULK TRUCK #562744 DRIVER PEDRO GAIER

REMARKS:

THANK YOU!

CIRC 110 BBL CMT TO PIT

SERVICE

DEPTH OF JOB			1744.72 FT
PUMP TRUCK CHARGE			$2213.25
EXTRA FOOTAGE		@	
MILEAGE	50 mi	@ 7.70	385.00
MANIFOLD + HEAD		@ 275.00	275.00
LT VEH mi	50 mi	@ 2.00	222.00
		@	
		TOTAL	$3095.25

CHARGE TO: AMERICAN WARRIOR
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

1-8 5/8 GUIDE SHOE		250.70
3 CENTRALIZERS	@ 37.50	112.50
1 AFU FLOAT SHOE	@ 229.70	229.30
1 BASKET	@ 55.926	55.926
1 8 5/8 TOP PLUG	@ 76.50	76.50
	@	
	TOTAL	122.826

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any)
TOTAL CHARGES 26447.25
DISCOUNT IF PAID IN 30 DAYS
$21 403.45

PRINTED NAME Emigdio Rojas

SIGNATURE Emigdio Rojas

BASIC ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd.
P.O. Box 129
Liberal, Kansas 67905
Phone 620-624-2277

FIELD SERVICE TICKET
1717 03464 A

DATE TICKET NO.

DATE OF JOB 2-21-13 DISTRICT 1717	NEW WELL ☒ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:
CUSTOMER American Warrior	LEASE Cynthia #35-4 WELL NO.
ADDRESS	COUNTY Stevens STATE KS
CITY STATE	SERVICE CREW E Mendoza, H Rutiaga
AUTHORIZED BY J Bennett	JOB TYPE: 242 - 5½" Production

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS
34726	8				
27467 -	8				
14827 -	2				
19883	6				

	DATE	TIME
TRUCK CALLED	2-21-13	AM 4:00
ARRIVED AT JOB		AM 8:00
START OPERATION		AM 10:00
FINISH OPERATION		AM 11:00
RELEASED		AM 2:00
MILES FROM STATION TO WELL		50 mi

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: Cynthia Rogers
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED		UNIT	QUANTITY	UNIT PRICE	$ AMOUNT
CC105	AA2	✓	Sk	200		3640 00
CC103	60/40 Poz		Sk	50		600 00
CC113	Gypsum	✓	lb	940		705 00
CC111	Salt	✓		1107		558 50
CC103	C-15	✓		113		1412 50
CC105	C-41P	✓		47		188 00
CC201	Gilsonite	✓		1000		670 00
CE2851	5½" Auto Fill Float Shoe	✓	Ea	1		360 00
CE1607	Latch Down Plug + Baffle	✓		1		400 00
CE4452	Turbolizers	✓		12		900 00
CE4552	+ Basket	✓		1		955 00
CE3000	Thread Lock	✓		1		34 00
CC151	Mud Flush	✓	gal	500		430 00
E101	Heavy Equipment Mileage		Tmi	100		700 00
CE240	Blending + Mixing Service		Sk	250		350 00
E113	Proppant + Bulk Delivery		ton/mi	578		924 00
CE207	Pump Depth (2001-20000')		4hr	1		3240 00
CE504	Plug Container		Ea	1		250 00
E100	Unit Mileage		mi	80		212 50
					SUB TOTAL	$ 11049 68

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON $	
MATERIALS	%TAX ON $	
	TOTAL	

SERVICE REPRESENTATIVE Joel Duran

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Cynthia Rogers
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

CLOUD LITHO - Abilene, TX

BASIC ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd.
P.O. Box 129
Liberal, Kansas 67905
Phone 620-624-2277

FIELD SERVICE TICKET CONT.

TICKET NO. 034604

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	$ AMOUNT
S003	Service Supervisor	ea	1		175 00
CE503	Ugt Head 20'	ea	1		300 00

TAYLOR PRINTING, INC.
(800) 870-7102

BASIC ENERGY SERVICES
Liberal, Kansas

Cement Report

Customer: American Warrior	Lease No.	Date: 7-21-13	
Lease: Cynthia	Well #: 35-4	Service Receipt: 034664	
Casing: 5½" 17# Depth: 6244.13'	County: Stevens	State: KS	
Job Type: 242-5½" Production	Formation	Legal Description: 35-31-39	

Pipe Data		Perforating Data		Cement Data
Casing size: 5½" 17#	Tubing Size	Shots/Ft		Lead
Depth: 6244.13'	Depth	From	To	
Volume: Disp-144.3bbl	Volume	From	To	
Max Press: 3000#	Max Press	From	To	Tail in: 200 sk AA2
Well Connection: TD-6250'	Annulus Vol.	From	To	
Plug Depth: SJT-34.31'	Packer Depth	From	To	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumbed	Rate	Service Log
8:00					on loc-Site assesment
8:15					spot trucks-rig up
10:30					csg on btm-break circ.
10:30					safety meeting / JSA
11:00					pressure ~~test~~ 3000#
11:10	300		5	4	pump 5 bbl H2O spacer
11:12	300		12	4	pump 12 bbl superflush
11:17	300		5	4	pump 5 bbl H2O spacer
11:20	200		63.8	5	mix & pump 200 sk AA2 @ 14.8#-1.51 ft3/sk
11:30				6	wash lines
11:30	100		0	6	drop plug-disp csg
11:55	700		134	2	slow rate
12:00	1200		144.3	0	land latch down plug, float held plug rat & mouse hole w/ 50 sk 60/40 Poz
					job complete

Service Units	34732	27462	19837-19883			
Driver Names	A Rivera	B Medina	H Ruttger			

Customer Representative: Emilio

Station Manager: J Bennett

Cementer: A Rivera

Taylor Printing, Inc.

OPERATOR

Company:	PALMER OIL, INC.		
Address:	3118 N. CUMMINGS RD PO BOX 399 GARDEN CITY, KS 67846		
Contact Geologist:	CECIL O'BRATE		
Contact Phone Nbr:	(620) 275-9231		
Well Name:	CYNTHIA #35-4		
Location:	NW SW NE NE Sec. 31 - 35S - 39W	API:	15-189-22805-0000
Pool:		Field:	UNKNOWN
State:	KANSAS	Country:	USA

Scale 1:240 Imperial

Well Name:	CYNTHIA #35-4		
Surface Location:	NW SW NE NE Sec. 31 - 35S - 39W		
Bottom Location:			
API:	15-189-22805-0000		
License Number:	34904		
Spud Date:	7/13/2013	Time:	6:45 PM
Region:	STEVENS		
Drilling Completed:	2/2/2011	Time:	5:50 PM
Surface Coordinates:	720' FNL & 1200' FEL		
Bottom Hole Coordinates:			
Ground Elevation:	3186.00ft		
K.B. Elevation:	3198.00ft		
Logged Interval:	0.00ft	To:	0.00ft
Total Depth:	0.00ft		
Formation:	ST. LOUIS 'B'		
Drilling Fluid Type:	FRESH WATER/CHEMICAL GEL		

SURFACE CO-ORDINATES

Well Type:	Vertical		
Longitude:	-101.5237165	Latitude:	37.3136278
N/S Co-ord:	720' FNL		
E/W Co-ord:	1200' FEL		

LOGGED BY

SOLUTIONS CONSULTING

Company:	SOLUTIONS CONSULTING, INC.		
Address:	108 W 35TH HAYS, KS 67601		
Phone Nbr:	(785) 259-3737		
Logged By:	Geologist	Name:	JEFF LAWLER

CONTRACTOR

Contractor:	DUKE DRILLING CO., INC		
Rig #:	9		
Rig Type:	MUD ROTARY		
Spud Date:	7/13/2013	Time:	6:45 PM
TD Date:	2/2/2011	Time:	5:50 PM
Rig Release:		Time:	

ELEVATIONS

K.B. Elevation:	3198.00ft	Ground Elevation:	3186.00ft
K.B. to Ground:	12.00ft		

NOTES

WELL COMPARISON SHEET

					SWD					●				
					EOG RESOURCES, INC.					PALMER OIL, INC.				
					CYNTHIA #35-1					CYNTHIA #35-6				
	CYNTHIA #35-4				E2 NE NE 31-35-39					NE SW SW NE 31-35-39				
	KB	3198			KB	3195				KB	3195			
	LOG TOPS		SAMPLE TOPS		COMP. CARD		LOG	SMPL.		COMP. CARD		LOG	SMPL.	
FORMATION	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.	CORR.		DEPTH	DATUM	CORR.	CORR.	
HEEBNER					3904	-709				3902	-707			
LANSING			4027	-829	4016	-821		-	8	4022	-827		-	2
MARMATON			4610	-1412	4598	-1403		-	9	4617	-1422		+	10
CHEROKEE			4879	-1681	4863	-1668		-	13	4886	-1691		+	10
MORROW			5392	-2194	5380	-2185		-	9	5408	-2213		+	19
ST. GENEVIEVE			5974	-2776	5947	-2752		-	24	5988	-2793		+	17
ST. LOUIS			6054	-2856	6035	-2840		-	16	6068	-2873		+	17
ST. LOUIS 'B'										6114	-2919			
RTD					6180	-2985				6200	-3005			
LTD										6193	-2998			

ACCESSORIES

FOSSIL

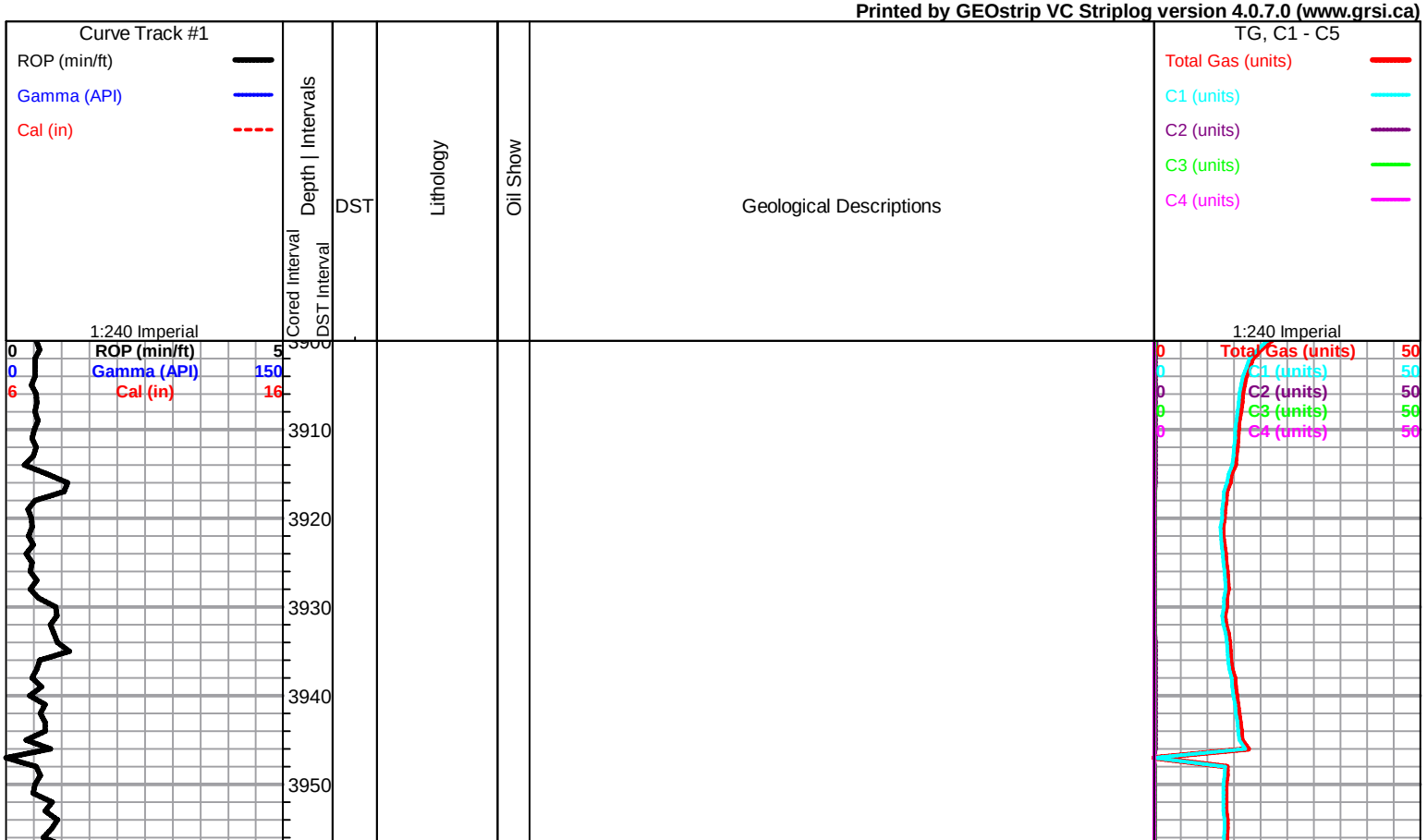
- Oolite

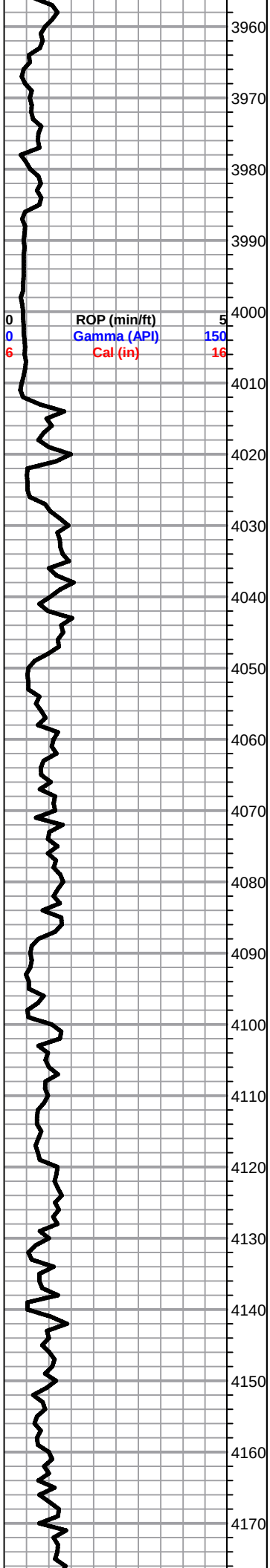
OTHER SYMBOLS

DST

- DST Int
- DST alt
- Core

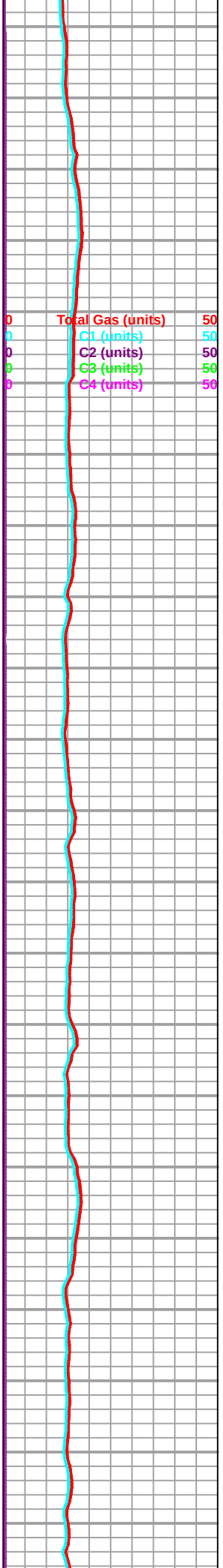
Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)





Sh- Black, fissile, carbonaceous

Lm- Buff Drk Gray, FXLN, mostly loosely cemented, sctrd to dense XLN porosity, some chalky in part



Lm- Tan, FXLN, mod cemented, mod. dev. w/ dense XLN porosity, barren

Sh- Gray Maroon, silty, calcareous, sl sandy, gritty & earthy

LANSING 4027' (-829) E-LOG Lm- Cream Off White, Fn Grn FXLN, dense, poorly dev. w/ sctrd micro XLN & poor interparticle vis. porosity, chalky in part

Lm- Cream Lt Gray, FXLN, fsl, mod. dev. w/ dense fenestral XLN porosity

Lm- Ivory Cream, VF-FXLN, dense, well cemented, sctrd - dense fenestral XLN porosity, few pcs w/ minimal vis. porosity, all barren, some gummy white chalk

Lm- Buff, FXLN, dense, poorly dev. w/ sctrd micro XLN & XLN porosity

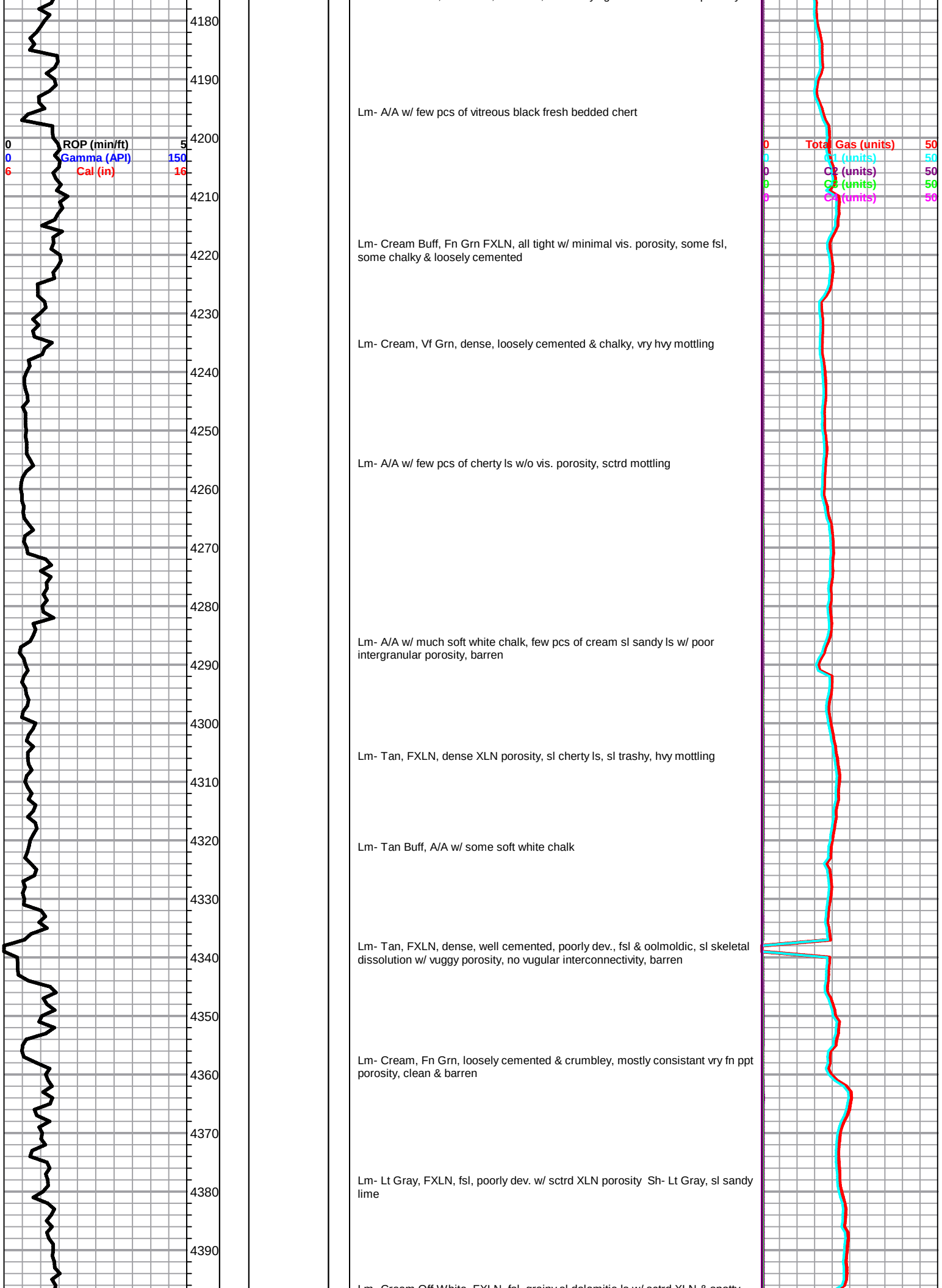
Lm- A/A w/ Lt Gray sandy shale & soft white chalk

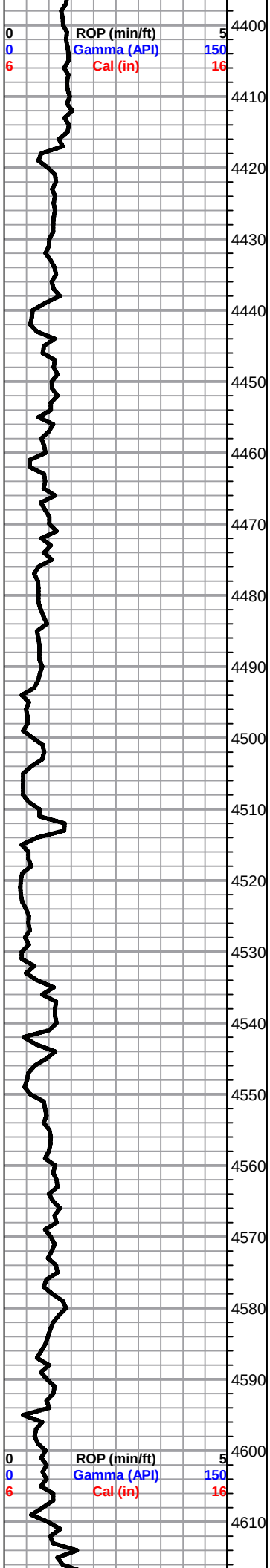
Lm- Cream Buff, FXLN, dense, loosely - well cemented, minimal vis. porosity, some soft & sl chalky in part

Lm- Lt Gray Buff, FXLN, fsl, well cemented, sl dev. w/ sctrd - dense XLN porosity, barren

Lm- Tan Buff, VF-FXLN, dense, vry well cemented, some pcs lithographic, mostly w/ minimal vis. porosity, tight

Lm- Cream Buff, VF-FXLN, some fsl, all mostly tight w/ minimal vis. porosity


0 ROP (min/ft) 5
0 Gamma (API) 150
6 Cal (in) 16
4180
4190
4200
4210
4220
4230
4240
4250
4260
4270
4280
4290
4300
4310
4320
4330
4340
4350
4360
4370
4380
4390
0 Total Gas (units) 50
0 C1 (units) 50
0 C2 (units) 50
0 C3 (units) 50
0 C4 (units) 50
Lm- A/A w/ few pcs of vitreous black fresh bedded chert
Lm- Cream Buff, Fn Grn FXLN, all tight w/ minimal vis. porosity, some fsl, some chalky & loosely cemented
Lm- Cream, Vf Grn, dense, loosely cemented & chalky, vry hvy mottling
Lm- A/A w/ few pcs of cherty ls w/o vis. porosity, sctrd mottling
Lm- A/A w/ much soft white chalk, few pcs of cream sl sandy ls w/ poor intergranular porosity, barren
Lm- Tan, FXLN, dense XLN porosity, sl cherty ls, sl trashy, hvy mottling
Lm- Tan Buff, A/A w/ some soft white chalk
Lm- Tan, FXLN, dense, well cemented, poorly dev., fsl & oolmoldic, sl skeletal dissolution w/ vuggy porosity, no vugular interconnectivity, barren
Lm- Cream, Fn Grn, loosely cemented & crumbley, mostly consistant vry fn ppt porosity, clean & barren
Lm- Lt Gray, FXLN, fsl, poorly dev. w/ sctrd XLN porosity Sh- Lt Gray, sl sandy lime



Lm- Cream Off White, FXLN, fsl, grainy sl dolomitic ls w/ sctrd XLN & spotty dense fenestral porosity

Lm- Lt Gray Buff, VFXLN, tight cherty ls, vry well cemented, no vis. porosity, vitreous

Lm- A/A w/ Lt Brown FXLN, sl cherty ls w/ vry dense fenestral porosity, barren, no stain, flor., or odor

Lm- Lt Gray Buff, Fn Grn, soft, loosely cemented, poorly dev. w/ minimal vis. interparticle porosity, sl chalky, few pcs of black fsl fresh bedded chert, some soft white chalk

Lm- Tan Buff, VF-FXLN, dense cherty ls, mostly tight w/ minimal vis. porosity, some pcs w/ dense micro XLN porosity, loosely cemented & crumbley

Lm- White Off White, F-Med Grn, soft & grainy w/ chalky matrix, hvy mottling, fn ppt porosity w/ dense chalky cementation

Lm- Tan, F-Med XLN, fsl & oolitic, mod dev., massive w/ sctrd fn ppt porosity, barren, much gummy white chalk

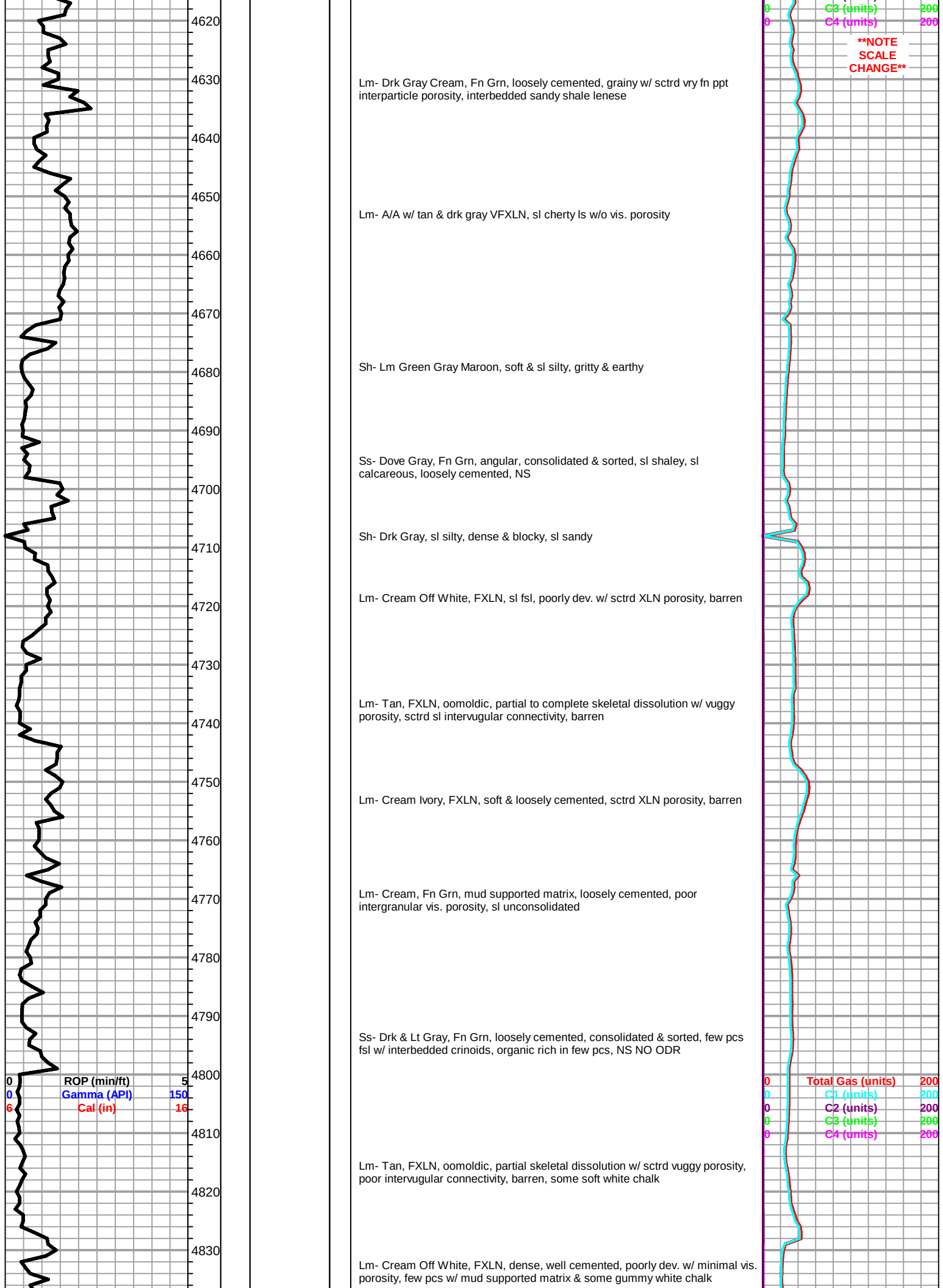
Lm- Tan, F-Med XLN, A/A, grading into more dev. oolitic/oomoldic w/ partial skeletal dissolution & vuggy porosity, partial intervugular connectivity, sl cherty ls, some pcs w/ small densely packed oolites, some sctrd recrystallization, barren

Sh- Drk Gray Lt Gray Maroon, sl sandy lime, gritty, soft & calcareous, gritty & earthy, gummy white chalk

Lm- Drk Gray, FXLN, soft, gritty, dense XLN porosity

Lm- Cream Off White Drk Gray, FXLN, sl fsl, looosely cemented & crumbley, grainy, sctrd mottling, few pcs of drk gray FXLN fsl cherty ls, minimal vis. porosity

MARMATON 4610' (-1412) E-LOG Lm- Cream Buff, FXLN Fn Grn, sl fsl, poorly dev, sctrd XLN porosity, some soft white chalk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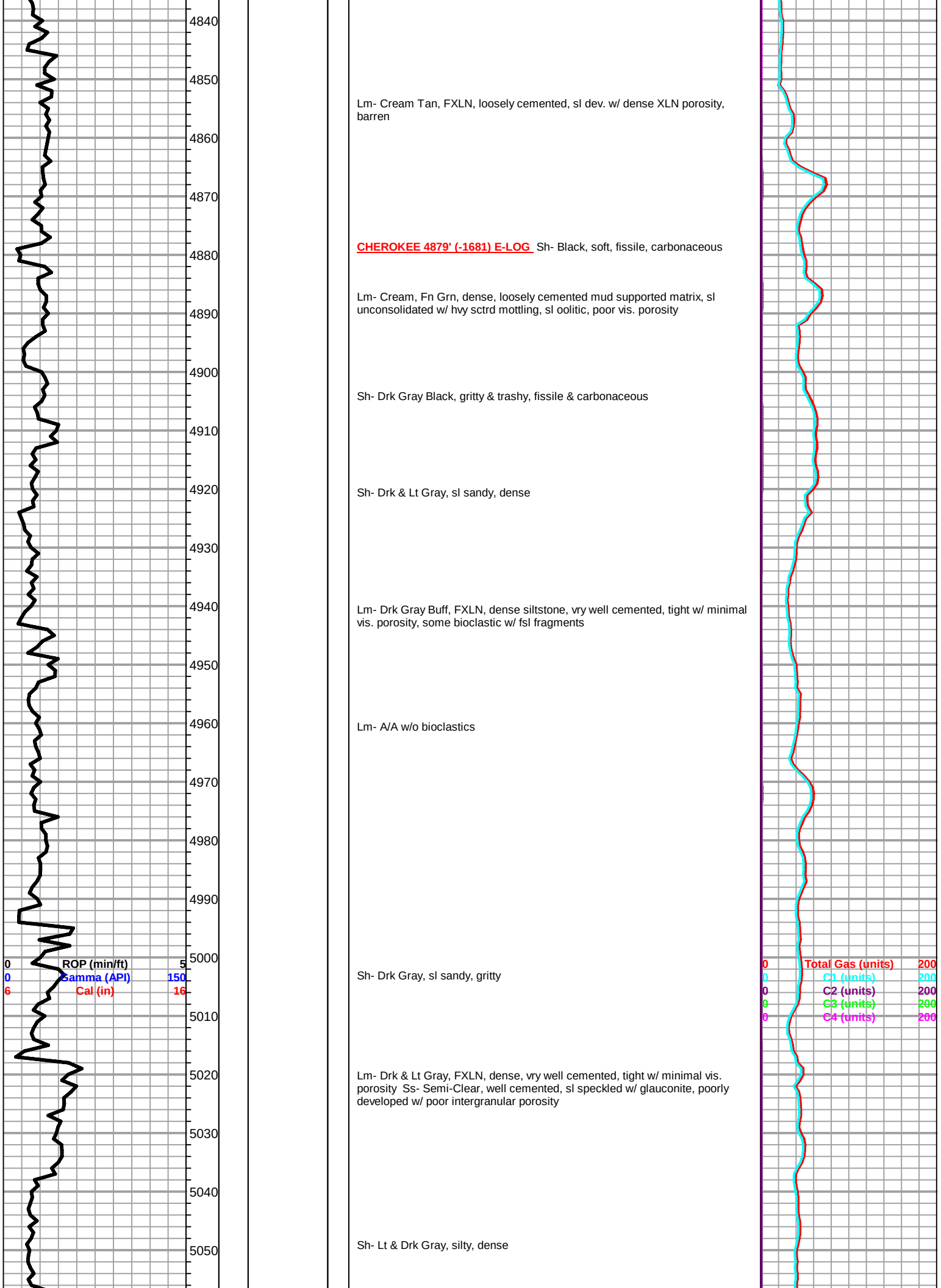
0 ROP (min/ft) 5
0 Gamma (API) 150
6 Cal (in) 16
0 C3 (units) 200
0 C4 (units) 200
NOTE SCALE CHANGE
Lm- Drk Gray Cream, Fn Grn, loosely cemented, grainy w/ sctrd vry fn ppt interparticle porosity, interbedded sandy shale lenese
Lm- A/A w/ tan & drk gray VFXLN, sl cherty ls w/o vis. porosity
Sh- Lm Green Gray Maroon, soft & sl silty, gritty & earthy
Ss- Dove Gray, Fn Grn, angular, consolidated & sorted, sl shaley, sl calcareous, loosely cemented, NS
Sh- Drk Gray, sl silty, dense & blocky, sl sandy
Lm- Cream Off White, FXLN, sl fsl, poorly dev. w/ sctrd XLN porosity, barren
Lm- Tan, FXLN, oomoldic, partial to complete skeletal dissolution w/ vuggy porosity, sctrd sl intervugular connectivity, barren
Lm- Cream Ivory, FXLN, soft & loosely cemented, sctrd XLN porosity, barren
Lm- Cream, Fn Grn, mud supported matrix, loosely cemented, poor intergranular vis. porosity, sl unconsolidated
Ss- Drk & Lt Gray, Fn Grn, loosely cemented, consolidated & sorted, few pcs fsl w/ interbedded crinoids, organic rich in few pcs, NS NO ODR
0 Total Gas (units) 200
0 C1 (units) 200
0 C2 (units) 200
0 C3 (units) 200
0 C4 (units) 200
Lm- Tan, FXLN, oomoldic, partial skeletal dissolution w/ sctrd vuggy porosity, poor intervugular connectivity, barren, some soft white chalk
Lm- Cream Off White, FXLN, dense, well cemented, poorly dev. w/ minimal vis. porosity, few pcs w/ mud supported matrix & some gummy white chalk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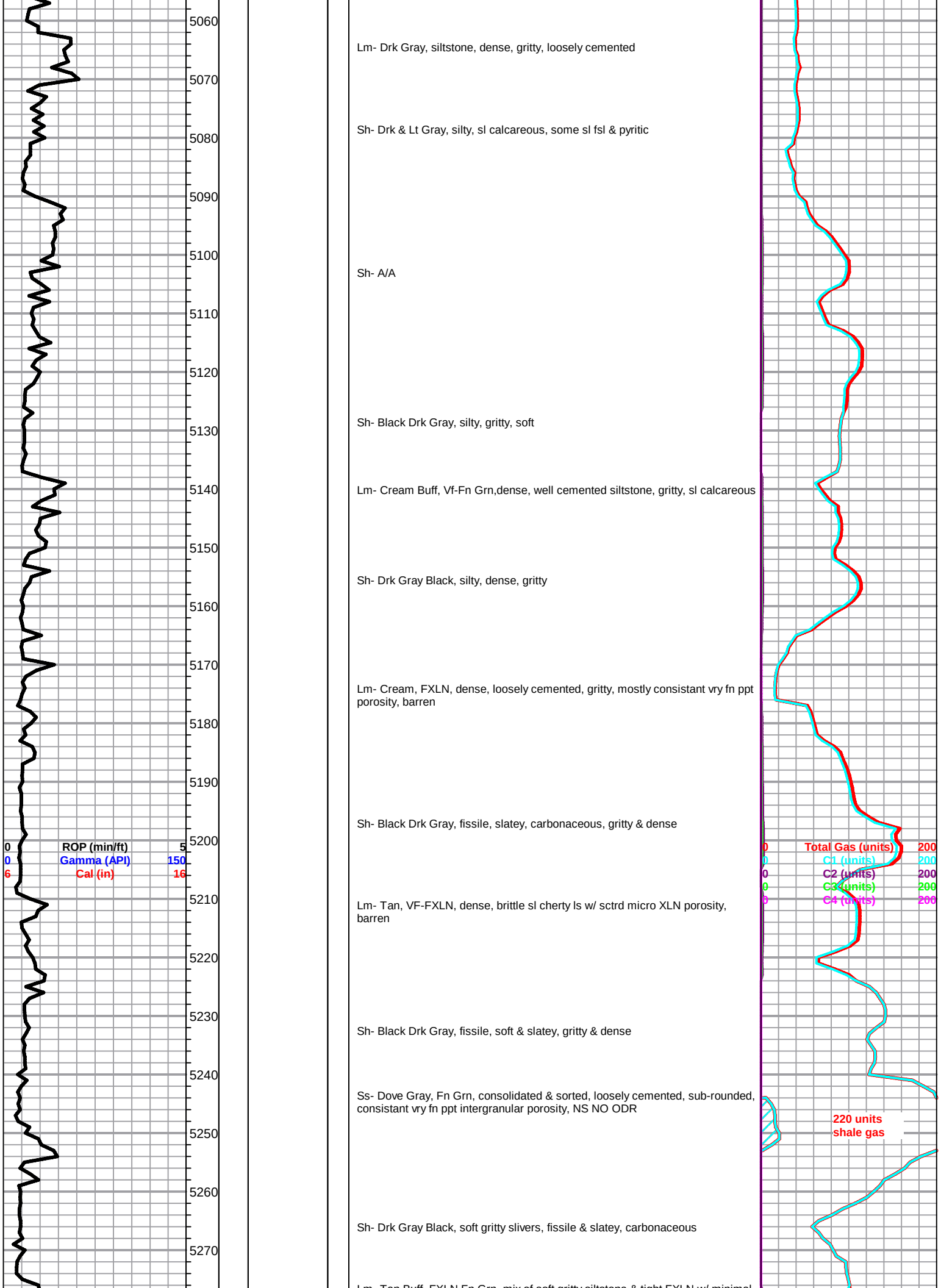
0 ROP (min/ft) 5
0 Gamma (API) 150
6 Cal (in) 16
Lm- Cream Tan, FXLN, loosely cemented, sl dev. w/ dense XLN porosity, barren
CHEROKEE 4879' (-1681) E-LOG Sh- Black, soft, fissile, carbonaceous
Lm- Cream, Fn Grn, dense, loosely cemented mud supported matrix, sl unconsolidated w/ hvy sctrd mottling, sl oolitic, poor vis. porosity
Sh- Drk Gray Black, gritty & trashy, fissile & carbonaceous
Sh- Drk & Lt Gray, sl sandy, dense
Lm- Drk Gray Buff, FXLN, dense siltstone, vry well cemented, tight w/ minimal vis. porosity, some bioclastic w/ fsl fragments
Lm- A/A w/o bioclastics
Sh- Drk Gray, sl sandy, gritty
Lm- Drk & Lt Gray, FXLN, dense, vry well cemented, tight w/ minimal vis. porosity Ss- Semi-Clear, well cemented, sl speckled w/ glauconite, poorly developed w/ poor intergranular porosity
Sh- Lt & Drk Gray, silty, dense
0 Total Gas (units) 200
0 C1 (units) 200
0 C2 (units) 200
0 C3 (units) 200
0 C4 (units) 200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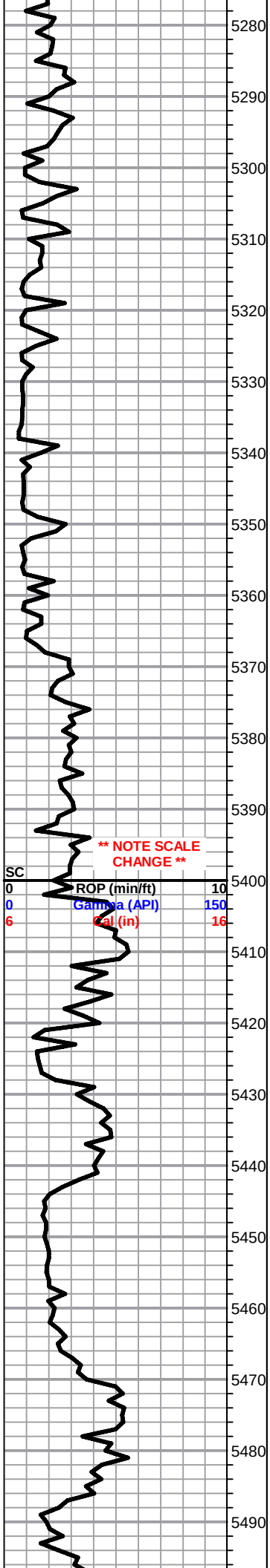
Lm- Drk Gray, siltstone, dense, gritty, loosely cemented
Sh- Drk & Lt Gray, silty, sl calcareous, some sl fsl & pyritic
Sh- A/A
Sh- Black Drk Gray, silty, gritty, soft
Lm- Cream Buff, Vf-Fn Grn,dense, well cemented siltstone, gritty, sl calcareous
Sh- Drk Gray Black, silty, dense, gritty
Lm- Cream, FXLN, dense, loosely cemented, gritty, mostly consistant vry fn ppt porosity, barren
Sh- Black Drk Gray, fissile, slatey, carbonaceous, gritty & dense
Lm- Tan, VF-FXLN, dense, brittle sl cherty ls w/ sctrd micro XLN porosity, barren
Sh- Black Drk Gray, fissile, soft & slatey, gritty & dense
Ss- Dove Gray, Fn Grn, consolidated & sorted, loosely cemented, sub-rounded, consistant vry fn ppt intergranular porosity, NS NO ODR
Sh- Drk Gray Black, soft gritty slivers, fissile & slatey, carbonaceous
0 ROP (min/ft) 5
0 Gamma (API) 150
6 Cal (in) 16
0 Total Gas (units) 200
0 C1 (units) 200
0 C2 (units) 200
0 C3 (units) 200
0 C4 (units) 200
220 units
shale gas



Lm- Tan Buff, FXLN Fn Grn, mix of soft gritty siltstone & tight FXLN w/ minimal vis. porosity, some w/ sctrd micro XLN porosity, NS NO ODR

Sh- A/A

Lm- Tan Buff, Vf Grn, dense, loosely cemented siltstone, no vis. intergranular porosity, NS NO ODR

Sh- Black Drk Gray, fissile, vry soft, few waxy, dense & blocky slivers, carbonaceous

Sh- Black Drk Gray, slatey & fissile, carbonaceous, some gritty & silty sl sandy lime

Sh- A/A, FNT ODR

Lm- Cream Drk Gray, Vf Grn, dense mud supported matrix, siltstone, soft, trashy, vry hvy mottling

MORROW 5392' (-2194) E-LOG Sh- Maroon Brick Red Lm Green, soft, gritty & earthy, some sl sandy lime

**** BIT TRIP FROM PDC TO BUTTON @ 5398' ****

Sh- A/A w/ interbedded Ss lenses, most sl unconsolidated, immature, poorly developed, angular, loosely cemented & sl calcareous to fused & speckled w/ drk minerals & sediment, NS NO ODR, FEW W/ VRY WK FLASH OF FLOR.

Sh- Black Maroon, soft, vry organic rich, gritty & earthy

Sh- A/A w/ lt gray speckled pcs

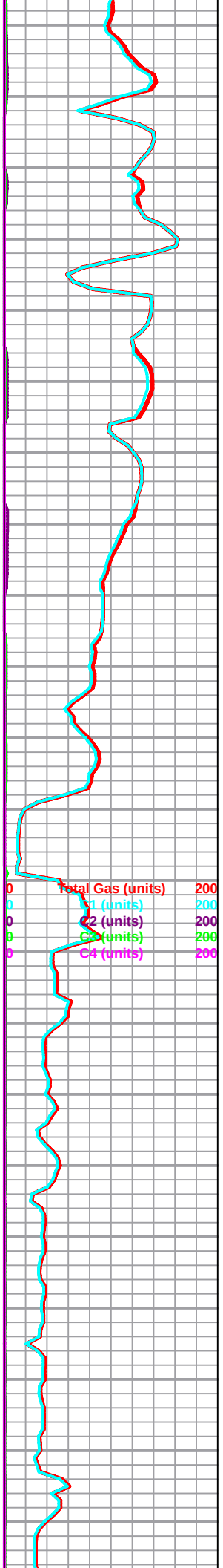
Lm- Cream Off White, Fn Grn, dense, soft & loosely cemented, sl chalky in part, vry clean, barren

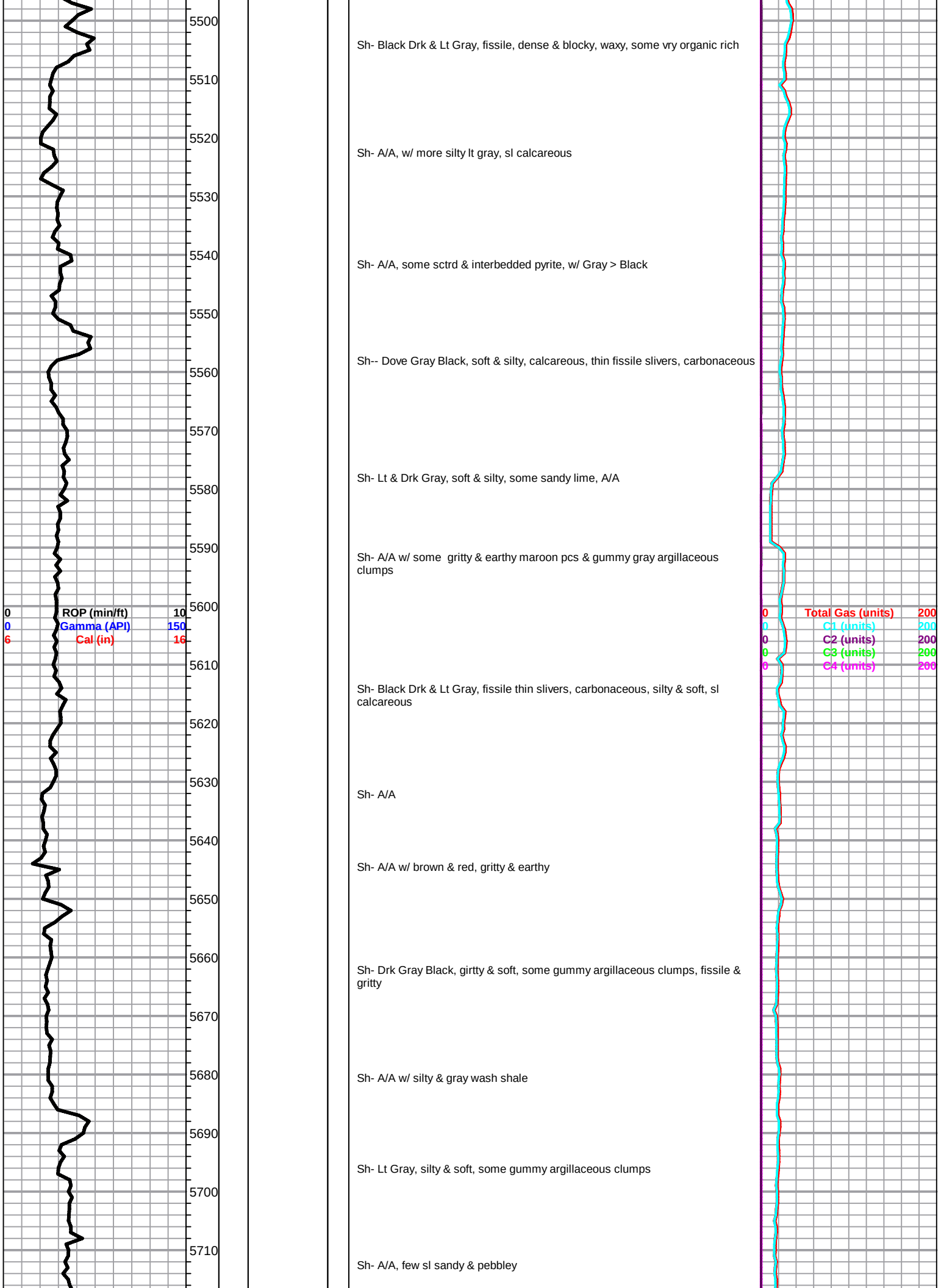
Sh- Black Drk Gray, soft, grainy & gritty, carbonaceous, fissile, some slatey

Sh- A/A w/ maroon & brick red shale

Lm- Tan Brown, VFXLN, dense, well cemented, sl cherty ls, few mixed mud supported matrix, dense, soft & loosely cemented

Ss- Clear Dove Gray, Fn Grn, mix, sl unconsolidated, mod sorted, immature & rounded to sub-rounded, some shaley & sl trashy, some clean, barren, NS NO FLOR NO ODR

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0 Gamma (API) 150
6 Cal (in) 16
0 Total Gas (units) 200
0 C1 (units) 200
0 C2 (units) 200
0 C3 (units) 200
0 C4 (units) 200
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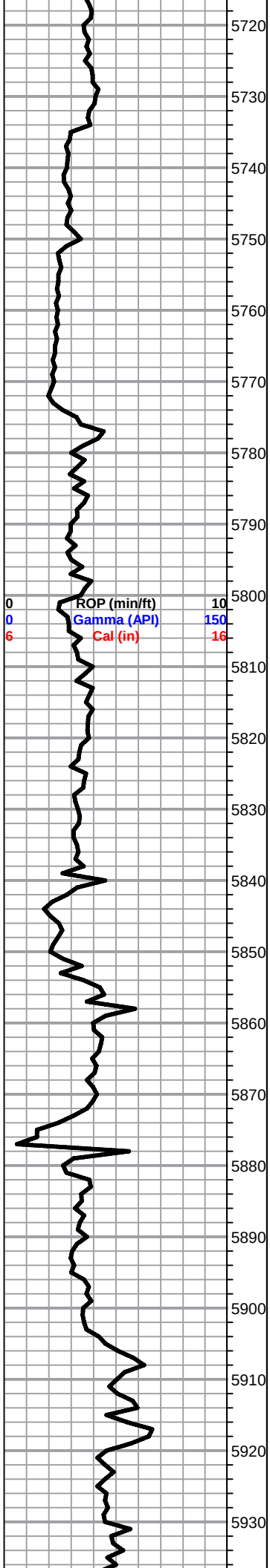
Sh- Black Drk & Lt Gray, fissile, dense & blocky, waxy, some vry organic rich
Sh- A/A, w/ more silty lt gray, sl calcareous
Sh- A/A, some sctrd & interbedded pyrite, w/ Gray > Black
Sh-- Dove Gray Black, soft & silty, calcareous, thin fissile slivers, carbonaceous
Sh- Lt & Drk Gray, soft & silty, some sandy lime, A/A
Sh- A/A w/ some gritty & earthy maroon pcs & gummy gray argillaceous clumps
Sh- Black Drk & Lt Gray, fissile thin slivers, carbonaceous, silty & soft, sl calcareous
Sh- A/A
Sh- A/A w/ brown & red, gritty & earthy
Sh- Drk Gray Black, girtty & soft, some gummy argillaceous clumps, fissile & gritty
Sh- A/A w/ silty & gray wash shale
Sh- Lt Gray, silty & soft, some gummy argillaceous clumps
Sh- A/A, few sl sandy & pebbley



Sh- Lt & Drk Gray Black, A/A, few sl fsl, fissile thin slivers

Sh- A/A w/ gummy argillaceous clumps

Lm- Tan, Med-Crs XLN, large secondary recrystallization w/ GD inter XLN porosity, loosely cemented, sl speckled w/ glauconite, LT SCTRD STN, NO SFO, BRT YLW FLOR UNTIL CRUSH THEN WK YLW FLOR, NO STRM WET CUT

Sh- Lt & Drk Gray Black, A/A

Lm- White, Med-Crs XLN, unconsolidated, sandy, speckled w/ glauconite/chlorite, vry loosely cemented & crumbley, mod. innerXLN porosity, some chalky & shaley

Sh- Lt & Drk Gray, A/A w/ soft gray wash & gummy argillaceous clumps

Sh- A/A, some fsl & sl pebbley

Ss- Clear to Semi-Frosted, Med Grn, sl unconsolidated, mod. sorted, well cemented to fused, richly speckled w/ glauconite, mod. intergranular porosity, some vry chalky & shaley, NS NO ODR

Lm- Lt Gray Buff, Vf Grn, dense, loosely to well cemented mud supported matrix, lithographic w/o vis.porosity

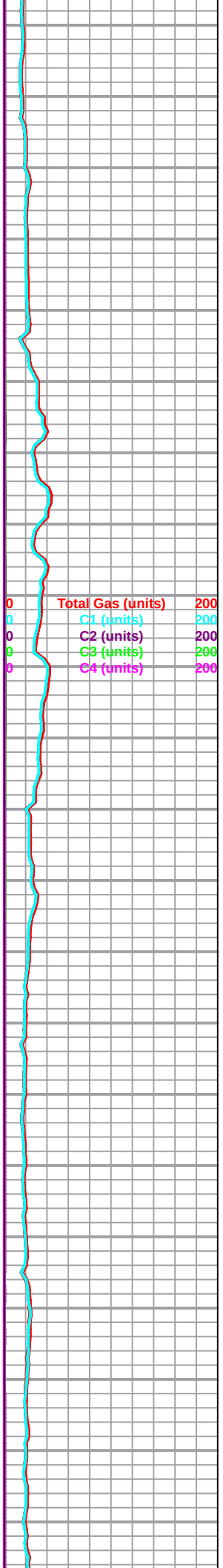
Lm- Lt Gray Cream, Vf Grn, dense, vry soft, sl sandy lime

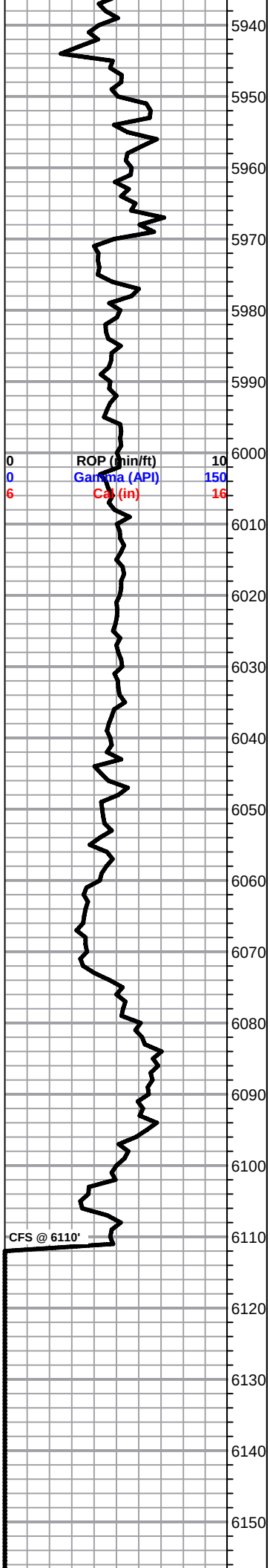
Sh- Black Drk Gray, dense & blocky, some gritty & soft, some gray wahs

Lm- Ivory Lm Green, Fn Grn, soft, dense, sl limey, granular & sandy ls w/ poor intergranular vis. porosity

Ss/Sh- Maroon Gray, shaley Ss/lime, fsl gray waxy sh, red wash

Sh/Ss- A/A w/ brown shaley Ss/sandy lime





Sh- Cream Maroon, waxy & blocky

Lm- White Buff, Fn Grn, sandy ls, loosely to well cemented & fused, consolidated & well sorted, sub-rounded, shaley & calcareous, barren

Lm- A/A, most loosely cemented

Sh- Mint Green, dense & blocky, waxy

ST. GENEVIEVE 5974' (-2776) E-LOG Lm- Dove Gray Ivory Buff, Fn Grn, sandy ls, loosely cemented, consolidated & well sorted, barren

Lm- Brown sandy ls A/A, barren, NS NO ODR NO FLOR.

TEST GAS

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

Lm- Cream Off White, Fn Grn, sandy ls, loosely cemented, sl chalk

Lm- Cream Off White, Fn Grn, sandy ls, more limey

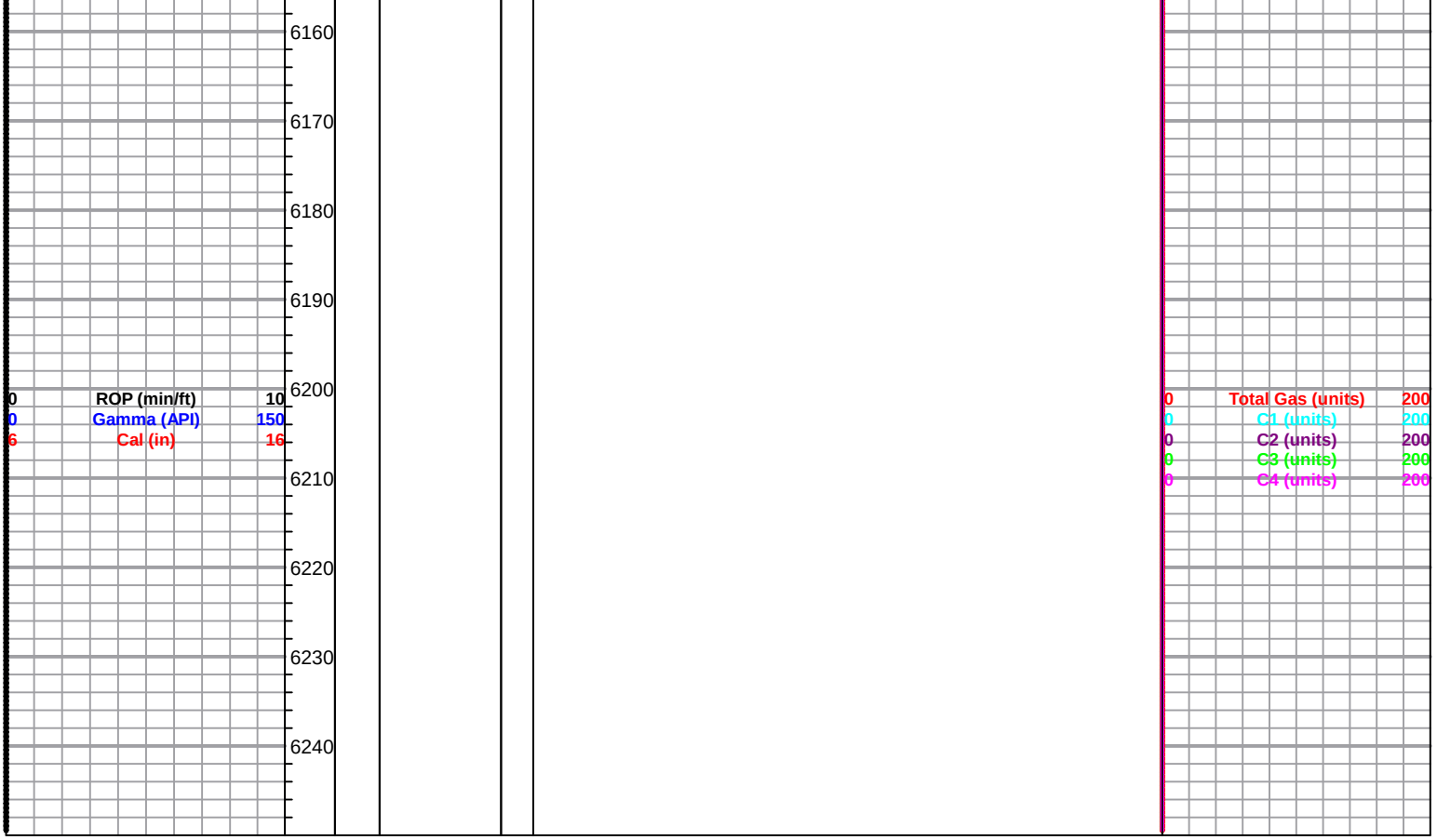
ST. LOUIS 6054' (-2856) E-LOG Lm- Semi-Translucent Golden Brown, crypto-VFXLN, dense, vitreous, brittle cherty ls w/o any vis. porosity, few pcs w/ interbedded pyrite flakes

Lm- Cream Off White, VFXLN, mix of densely packed oolitic biomicrite w/ clear matrix cementation, w/o vis. matrix or inter oolitic porosity & VF-FXLN ls w/ dense XLN porosity, all barren

Lm- Cream Off White, Fn Grn, sandy ls, sl unconsolidated & poorly sorted w/ fn-crs grn clear sub-rounded qtz inclusions, vry loosely cemented & friable, barren

Lm- White Off White, Fn-Med Grn, sandy ls A/A, soft & loosely cemented to friable, sl unconsolidated & poorly sorted w/ qtz inclusions, barren

Lm- Cream Off White, A/A w/ VRY SMALL TRACE of small oolitic clusters & individual oolites in bottom of tray, mod dev. w/ GD interoolite porosity, barren, NS NO ODR NO FLOR, some gummy white chalk


6160
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6240
0 ROP (min/ft) 10
0 Gamma (API) 150
6 Cal (in) 16
0 Total Gas (units) 200
0 C1 (units) 200
0 C2 (units) 200
0 C3 (units) 200
0 C4 (units) 200

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

Kansas
Corporation Commission

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

October 08, 2013

joe Smith
Palmer Oil, Inc.
3118 N. Cummings Rd.
PO BOX 399
GARDEN CITY, KS 67846

Re: ACO1
API 15-189-22805-00-00
Cynthia 35-4
NE/4 Sec.35-31S-39W
Stevens 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,
joe Smith