Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1184313

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
Phone: (620) 275-9231
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Wyatt Urban
Purchaser: Valero

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 #: ____

11/05/2013	11/16/2013	01/24/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-189-22820-00-00
Spot Description: ____
NW SE SE SW Sec. 21 Twp. 31 S. R. 35 ☐ East ☑ West
335 Feet from ☐ North / ☑ South Line of Section
2305 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: Linda Well #: 21-2
Field Name: ____
Producing Formation: Cherster
Elevation: Ground: 3009 Kelly Bushing: 3016
Total Vertical Depth: 6400 Plug Back Total Depth: 6366
Amount of Surface Pipe Set and Cemented at: 1756 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: 60 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: 01/27/2014
☑ **Confidential Release Date:** 01/27/2016
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 01/27/2014

1184313

Operator Name: Palmer Oil, Inc. Lease Name: Linda Well #: 21-2

Sec. 21 Twp. 31 S. R. 35 ☐ 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
Porosity
Micro

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

Name	Top	Datum
Marmaton	4913'	-1897
Cherokee	5088'	-2072
Atoka	5396'	-2380
Morrow	5515'	-2499
Chester	5822'	-2806
St.Gen	6062'	-3046
St.Louis	6156'	-3140

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	1756	65/35 & Class A	825	6%gel,3%CC
Production	7.875	5.50	17	6382	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	6010'to 6018'		

TUBING RECORD: Size: Set At: 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:

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

Form	ACO1 - Well Completion
Operator	Palmer Oil, Inc.
Well Name	Linda 21-2
Doc ID	1184313

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	24	1756	65/35 & Class A	825	6%gel,3% CC
Production	7.875	5.50	17	6382	AA2	200	

ALLIED OIL & GAS SERVICES, LLC

CEMENTING LOG

STAGE NO.

Date 11-9-13 District 21 Ticket No. 52021
Company Duke 9 Rig #9
Lease Linda Well No. 21-2
County Stevens State KS
Location Vel Moscow KS Field

CASING DATA: Conductor ☐ PTA ☐ Squeeze ☐ Misc ☐
Surface ☒ Intermediate ☐ Production ☐ Liner ☐
Size 5 1/8 Type Weight 24# Collar

Casing Depths: Top 0 Bottom 1756

Drill Pipe: Size Weight Collars
Open Hole: Size T.D. ft. P.B. to ft.

CAPACITY FACTORS:
Casing: Bbls/Lin. ft. Lin. ft./Bbl.
Open Holes: Bbls/Lin. ft. Lin. ft./Bbl.
Drill Pipe: Bbls/Lin. ft. Lin. ft./Bbl.
Annulus: Bbls/Lin. ft. Lin. ft./Bbl.
Bbls/Lin. ft. Lin. ft./Bbl.
Perforations: From ft. to ft. Amt.

CEMENT DATA:
Spacer Type: H20
Amt. Sks Yield ft³/sk Density PPG
10 bbls

LEAD: Pump Time hrs. Type 65-35 6% gel
3% cc 1/4# flo Excess
Amt. 625 Sks Yield 1.97 ft³/sk Density 12.4 PPG
TAIL: Pump Time nrs. Type Class A 3% cc
Vu# flo Excess
Amt. 200 Sks Yield 1.10 ft³/sk Density 15.6 PPG
WATER: Lead gals/sk Tail gals/sk Total Bbls.

Pump Trucks Used 541.550
Bulk Equip. 456.251 470-467

Float Equip: Manufacturer Weather Ford
Shoe: Type Guide Shoe Depth 1756
Float: Type Insert Float Depth 1713.3
Centralizers: Quantity 3 Plugs Top Btm.
Stage Collars
Special Equip. Cement basket
Disp. Fluid Type Amt. Bbls. Weight PPG
Mud Type Weight PPG

COMPANY REPRESENTATIVE Eugene Kopp CEMENTER Jerry Boggs

TIME AM/PM	PRESSURES PSI DRILL PIPE CASING	ANNULUS	FLUID PUMPED DATA TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS
3:30						On location at 330 p.m.
6:45	2000		—		—	Pressure test 2000
6:49	200		10		6	10 bbl ahead H20
7:04	300		229		7	lead cement at 12.4
8:00	250		271		6	Tail cement at 15.6
8:15	0		—		—	Shut down to release plug
8:18	150		380		7	Plug left displacement 105.3 bbls
8:35	1200		380		3	landed plug 1200 psi
						100 bbls of cement to surface

FINAL DISP. PRESS: 510 PSI BUMP PLUG TO 1200 PSI BLEEDBACK 1/2 BBLS. THANK YOU

BASIC ENERGY SERVICES
Liberal, Kansas

Cement Report

Customer: Palmer O.I/American Warrior	Lease No.	Date: 11-17-13	
Lease: Linda	Well #: 21-4	Service Receipt	
Casing	Depth	County: Stevens	State: KS
Job Type	Formation	Legal Description: 21-31-35	

Pipe Data

Casing size: 5 1/2 17#	Tubing Size
Depth: 6395'	Depth
Volume: 147.8 bbl	Volume
Max Press	Max Press
Well Connection	Annulus Vol.
Plug Depth: 6373'	Packer Depth

Perforating Data

Shots/Ft	From	To
	From	To
	From	To
	From	To
	From	To

Cement Data

Lead 200 SKS @ 11.4 PPG
5% W60, 10% Salt
6% C-15 1/4# Defoamer
5# Gilsonite
AA2 Cement

Tail in ~~for Mouse Hole~~
50 SKS @ 13.5 PPG
& Rat Hole
60/40 Poz

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
0600					On location - Rig up
1045					Safety Meeting
1110	2500				Pressure Test
1113	100		8	4	Pump 30 SKS @ 13.5 PPG, Plug Rat Hole
1118	100		5	4	Pump 20 SKS @ 13.5 PPG, Plug Mouse Hole
1134	100		12	5	Pump 500 gallons of Mud Flush
1137	300		53	6	Pump 200 SKS @ 14.8 PPG
1146					Drop Plug - Wash up
1151	100			6	Start Displacement
1211	650		135	2	Slow Rate
1215	1150		147	2	Bump Plug
1220	0				Release Pressure - float Held

Service Units	78440	38750 19842	30464 37724			
Driver Names	Ruben	Carlos	Daniel			

Joe Smith
Customer Representative

Jerry Bennett
Station Manager

Ruben Martinez
Cementer

Taylor Printing, Inc.

Musgrove PETROLEUM CORPORATION
Claflin, Kansas

NOTES

Company:Palmer Oil, Inc.

Lease:Linda 21-2

Field:Cutter South

Location:NW-SE-SE-SW (335' FSL & 2305' FWL)

Sec:21 Twsp:31S Rge:35W

County:Stevens State:Kansas

KB:3016' GL:3003'

API #:15-189-22820-00-00

Contractor:Duke Drilling Inc. (Rig #9)

Spud:11/05/2013 Comp:11/16/2013

RTD:6400' LTD:6403'

Mud Up: 4400' Type Mud: Chemical

Samples Saved From: 4500' to RTD
Drilling Time Kept From:4000' to RTD
Samples Examined From: 4500' to RTD
Geological Supervision from:4500' to RTD
Geologist on Well: Wyatt Urban

Surface Casing: 8 5/8@ 1756'

Electronic Surveys: Logged by Pioneer Energy Services,DIL, CNL/CDL, MEL

Palmer Oil
well comparison sheet

	DRILLING WELL Linda 21-2 NW-SE-SE-SW 21-31S-35W				COMPARISON WELL Palmer Oil- Lola 21-4 SW-NW-SE-SE 21-31S-35W				COMPARISON WELL EOG Resources-Cullsion 28 #1 N2-S2-NE-NW 28-31S-35W			
	3016 KB				3011 KB		Structural Relationship		3020 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Heebner	4097	-1081			4101	-1090	9					
B. Heebner	4103	-1087			4108	-1097	10		4123	-1103	16	
Lansing	4215	-1199			4209	-1198	-1		4236	-1216	17	
Marmaton	4909	-1893	4913	-1897	4898	-1887	-6	-10	4914	-1894	1	-3
Cherokee	5084	-2068	5088	-2072	5082	-2071	3	-1	5098	-2078	10	
Atoka	5388	-2372	5396	-2380	5396	-2385	13	5				
Morrow	5494	-2478	5515	-2499	5506	-2495	-4	-4	5513	-2493	17	-6
Chester	5812	-2796	5822	-2806	5803	-2792	-4	-14				
Chester Sand	6005	-2989	6009	-2993	6015	-3004	15	11				
St. Gen	6055	-3039	6062	-3046	6049	-3038	-1	-8	6043	-3023	-16	-23
St. Louis	6148	-3132	6156	-3140	6136	-3125	-7	-15				
RTD	6400	-3384	6400	-3384	6400	-3389	5	5	6300	-3280	-104	-104
LTD	6403	-3387	6403	-3387	6362	-3351	-36	-36				

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palmer Oil, Inc. **21-31s-35w Stevens Co.**

TESTING, INC.

3118 N Cummings RD PO Box 399 Garden City, KS 67846

ATTN: Wyatt Urban

Linda #21-2

Job Ticket: 54749 **DST#: 1**

Test Start: 2013.11.15 @ 09:15:00

GENERAL INFORMATION:

Formation: **Chester Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:47:45
Time Test Ended: 16:52:45

Test Type: Conventional Bottom Hole (Initial)
Tester: Sam Esparza
Unit No: 64

Interval: 5973.00 ft (KB) To 6015.00 ft (KB) (TVD)
Total Depth: 6015.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

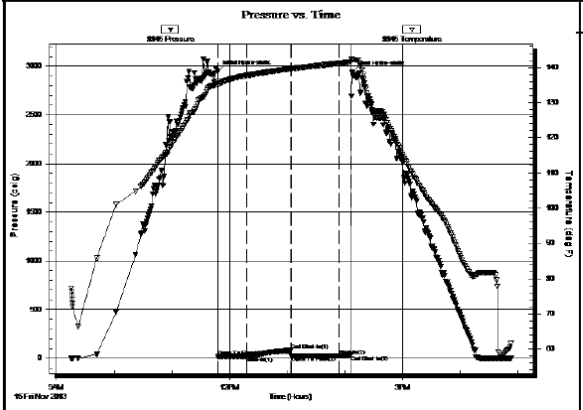
Reference Elevations: 3016.00 ft (KB)
3003.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8845 **Outside**

Press@RunDepth: 23.18 psig @ 5974.00 ft (KB)
Start Date: 2013.11.15 End Date: 2013.11.15
Start Time: 09:15:05 End Time: 16:52:44

Capacity: 8000.00 psig
Last Calib.: 2013.11.01
Time On Btm: 2013.11.15 @ 11:47:30
Time Off Btm: 2013.11.15 @ 14:07:30

TEST COMMENT: IF: 1/2" Blow .
ISI No Return.
FF: No Blow .
FSI No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2945.41	135.97	Initial Hydro-static
1	19.79	134.82	Open To Flow (1)
31	19.83	137.69	Shut-In(1)
77	77.87	139.57	End Shut-In(1)
77	21.44	139.55	Open To Flow (2)
126	23.18	141.12	Shut-In(2)
139	33.85	141.50	End Shut-In(2)
140	2934.21	142.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m	0.02

Gas Rates

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

ROCK TYPES

Lmst fw<7
Lmst fw7>
shale, gry
Carbon Sh
Ss

OTHER SYMBOLS

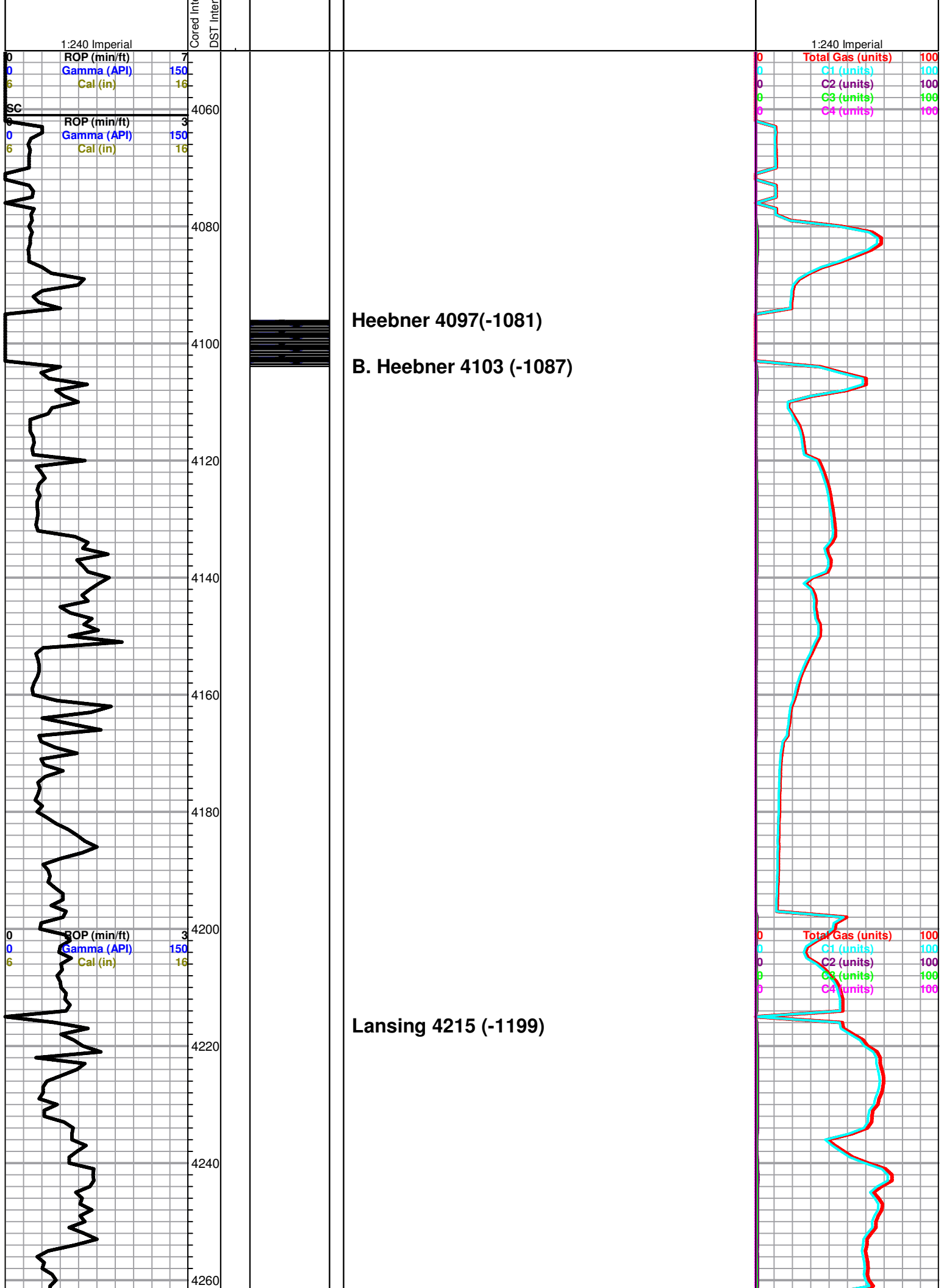
Oil Show
- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Stn
- Dead Oil Stn
- Fluorescence
- Gas

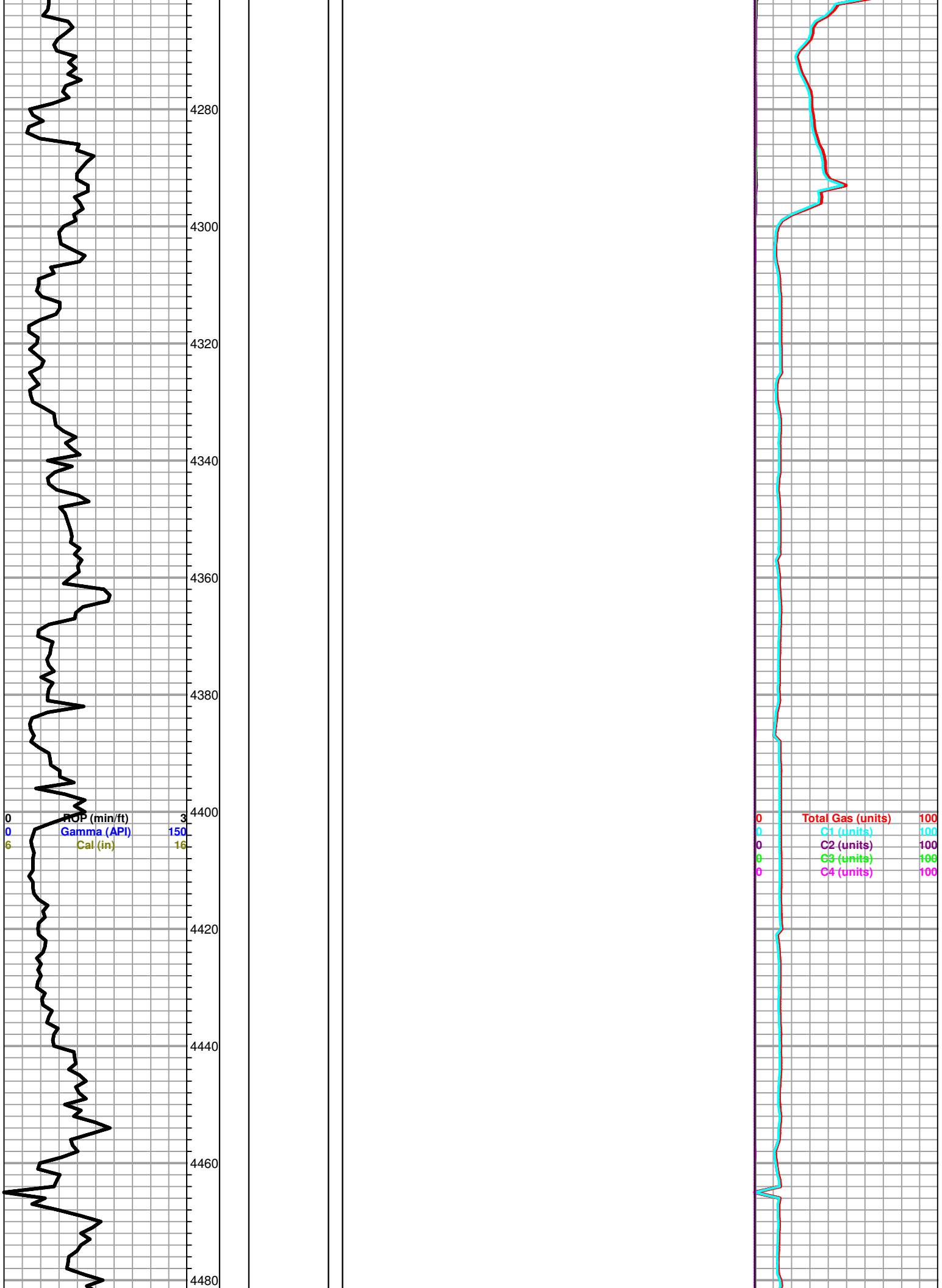
DST
- DST Int
- DST alt
- Core
- tail pipe

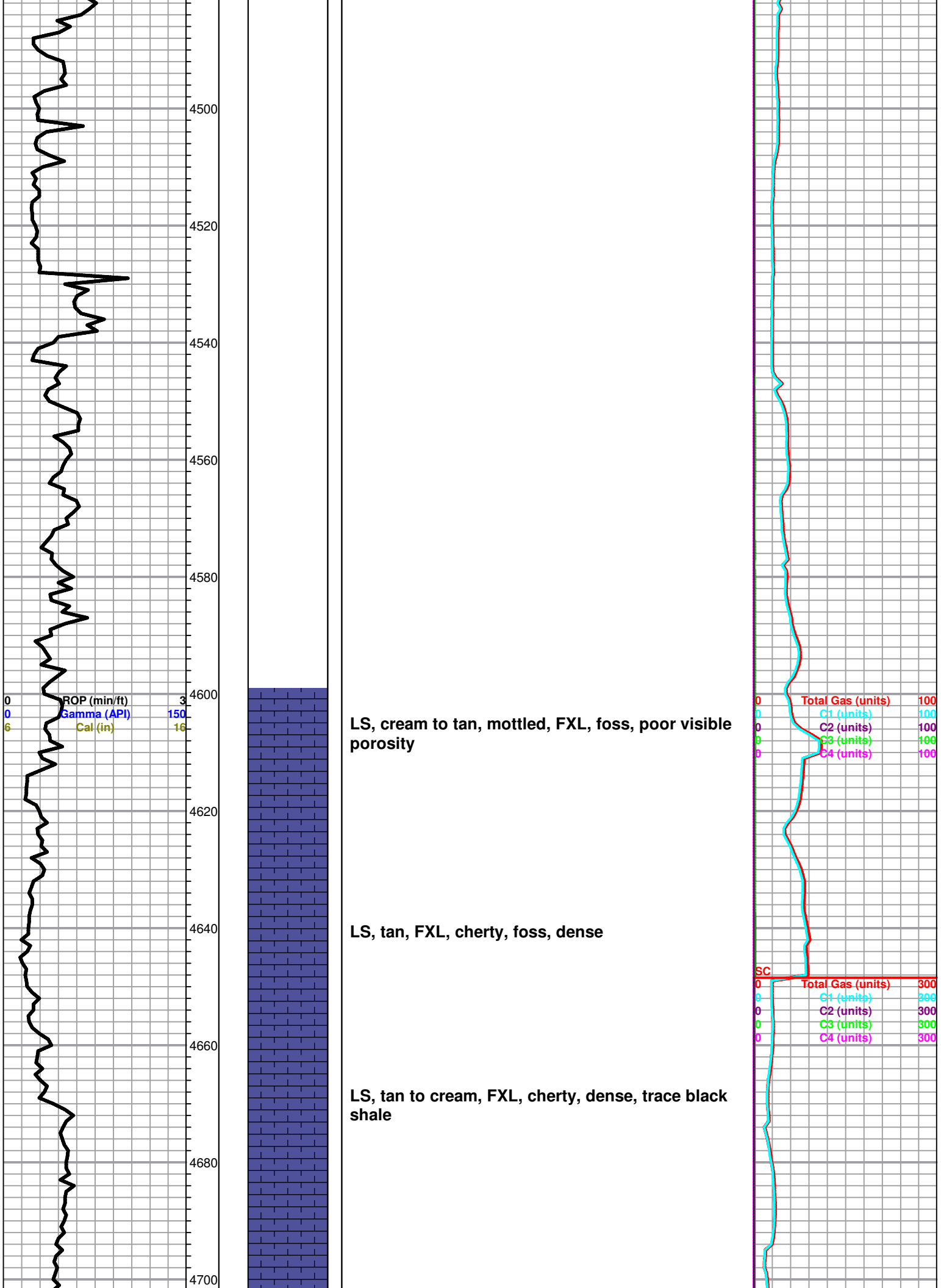
Curve Track #1
ROP (min/ft)
Gamma (API)
Cal (in)

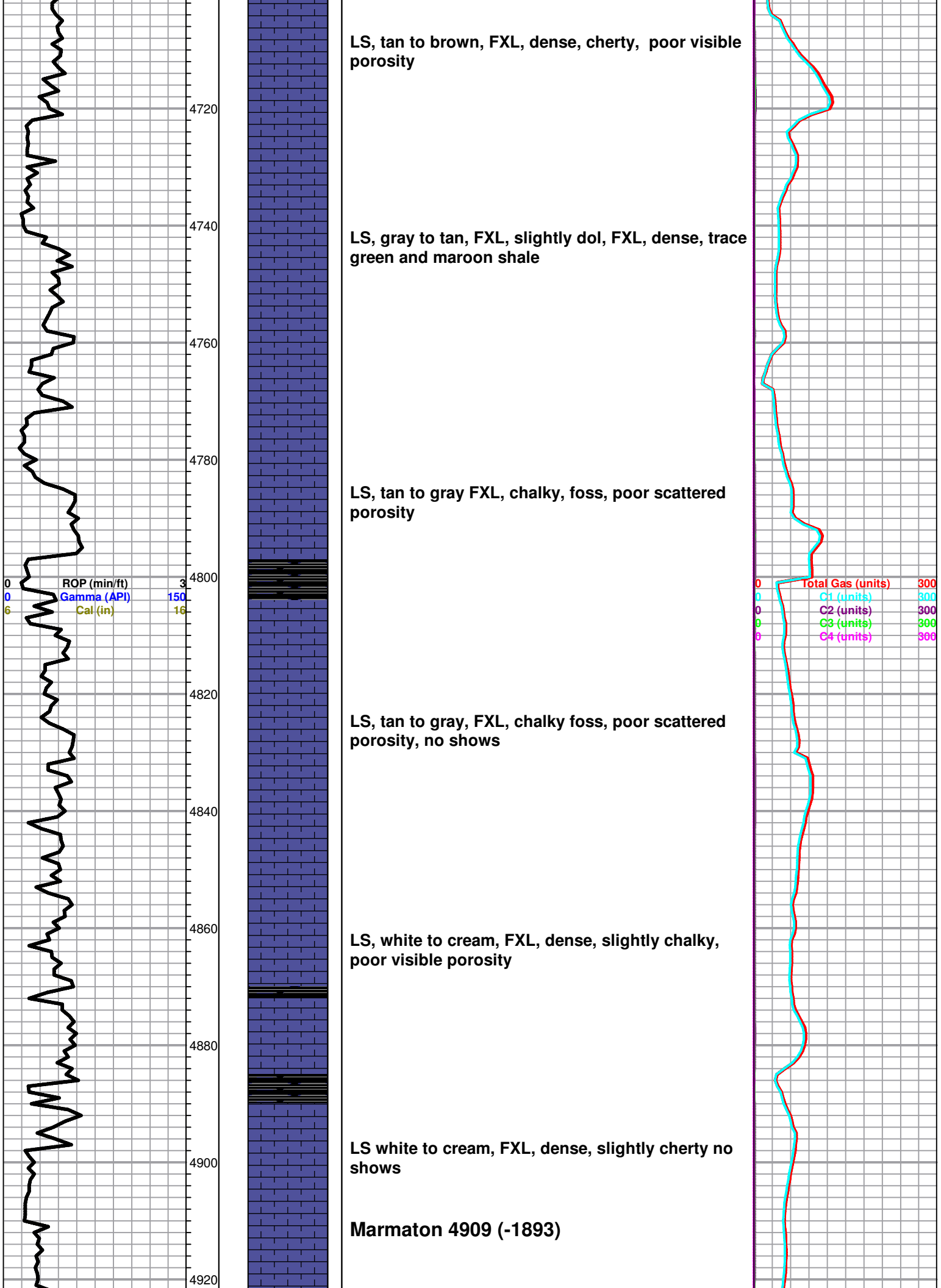
Depth | Intervals
Interval
DST
Lithology
Oil Show
Geological Descriptions

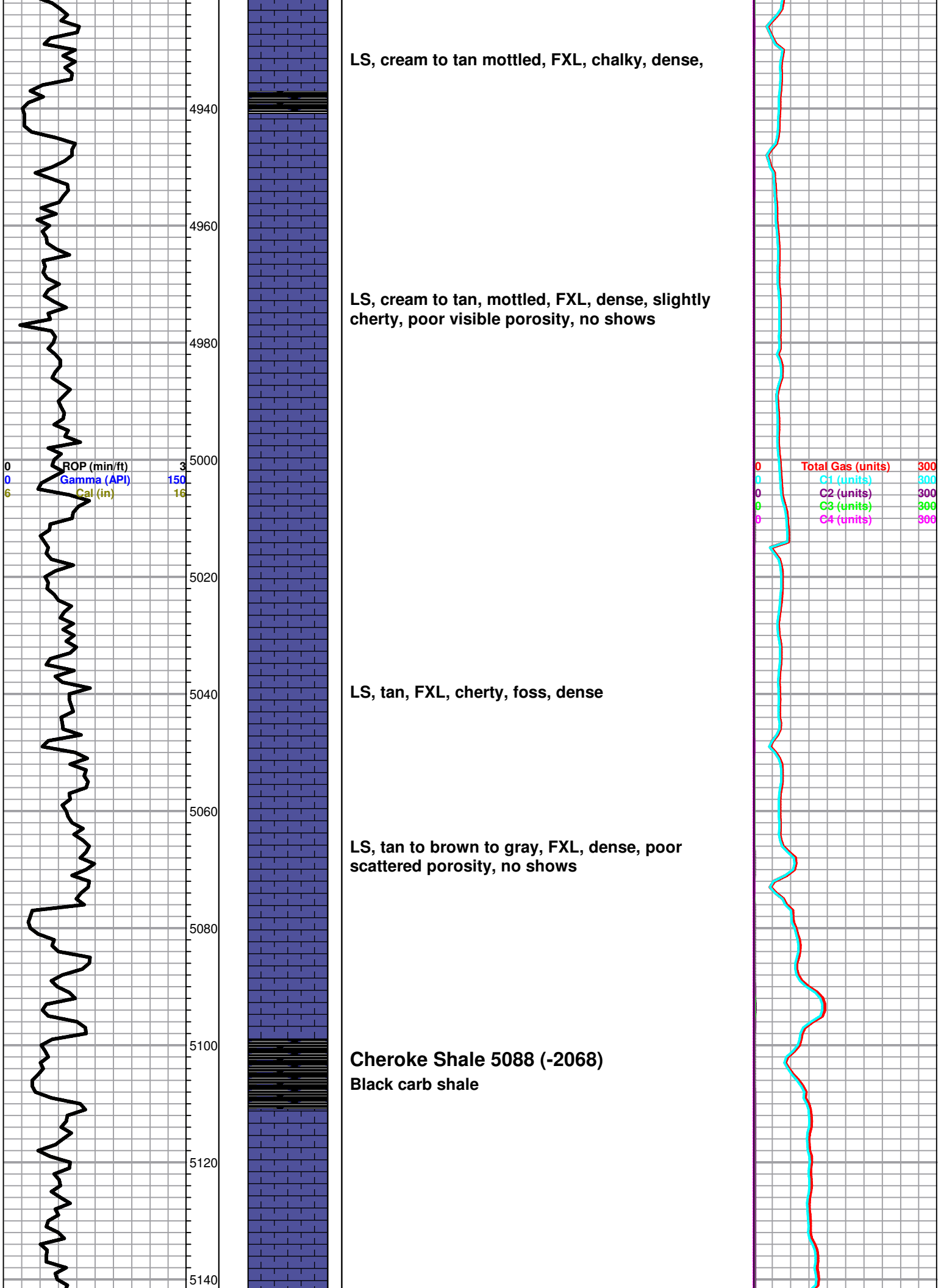
TG, C1 - C5
Total Gas (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)

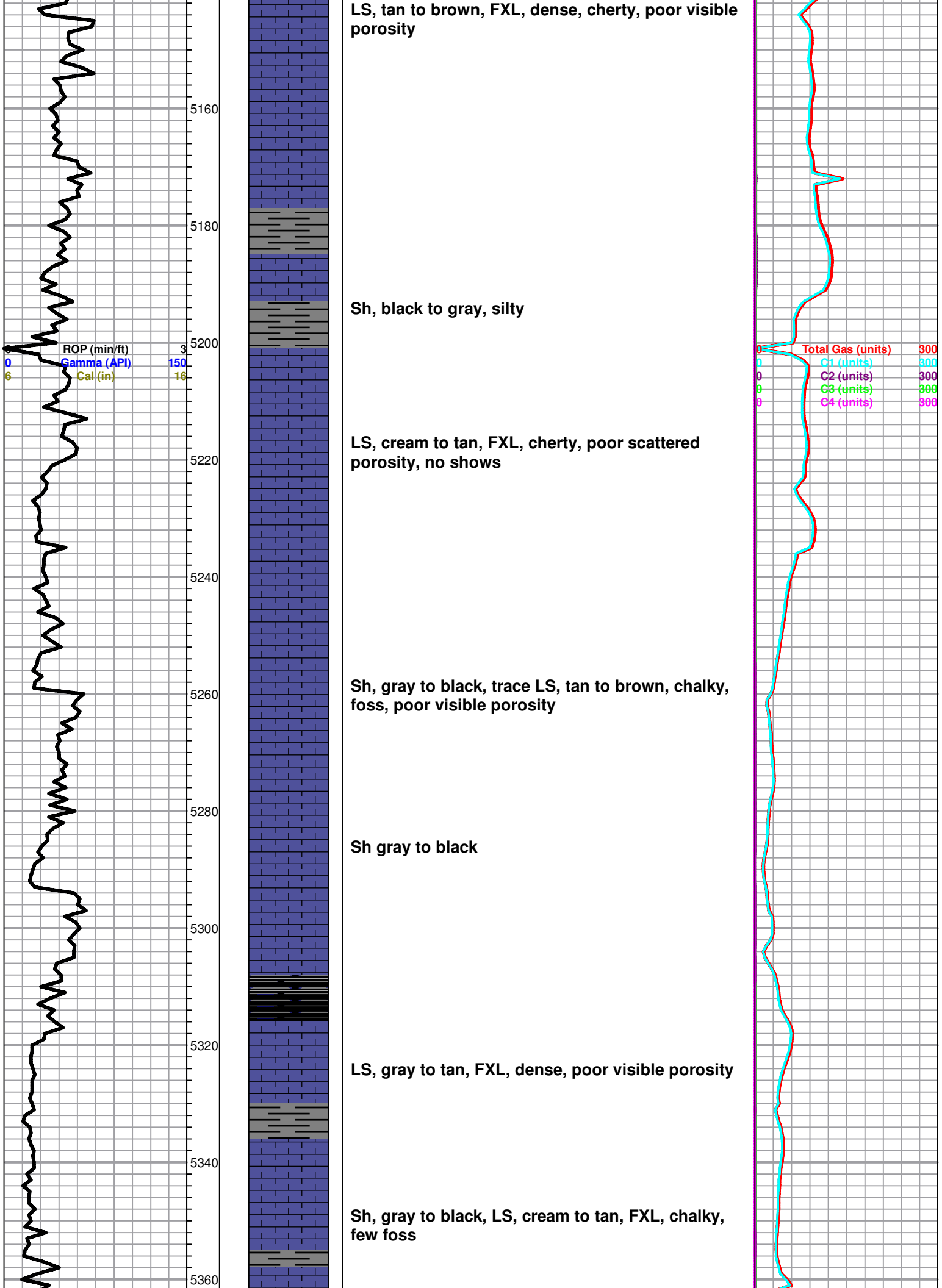

1:240 Imperial
Cored Int
DST Inter
0 ROP (min/ft) 7
0 Gamma (API) 150
6 Cal (in) 16
SC
0 ROP (min/ft) 3
0 Gamma (API) 150
6 Cal (in) 16
4060
4080
4100
4120
4140
4160
4180
4200
4220
4240
4260
Heebner 4097(-1081)
B. Heebner 4103 (-1087)
Lansing 4215 (-1199)
1:240 Imperial
0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100

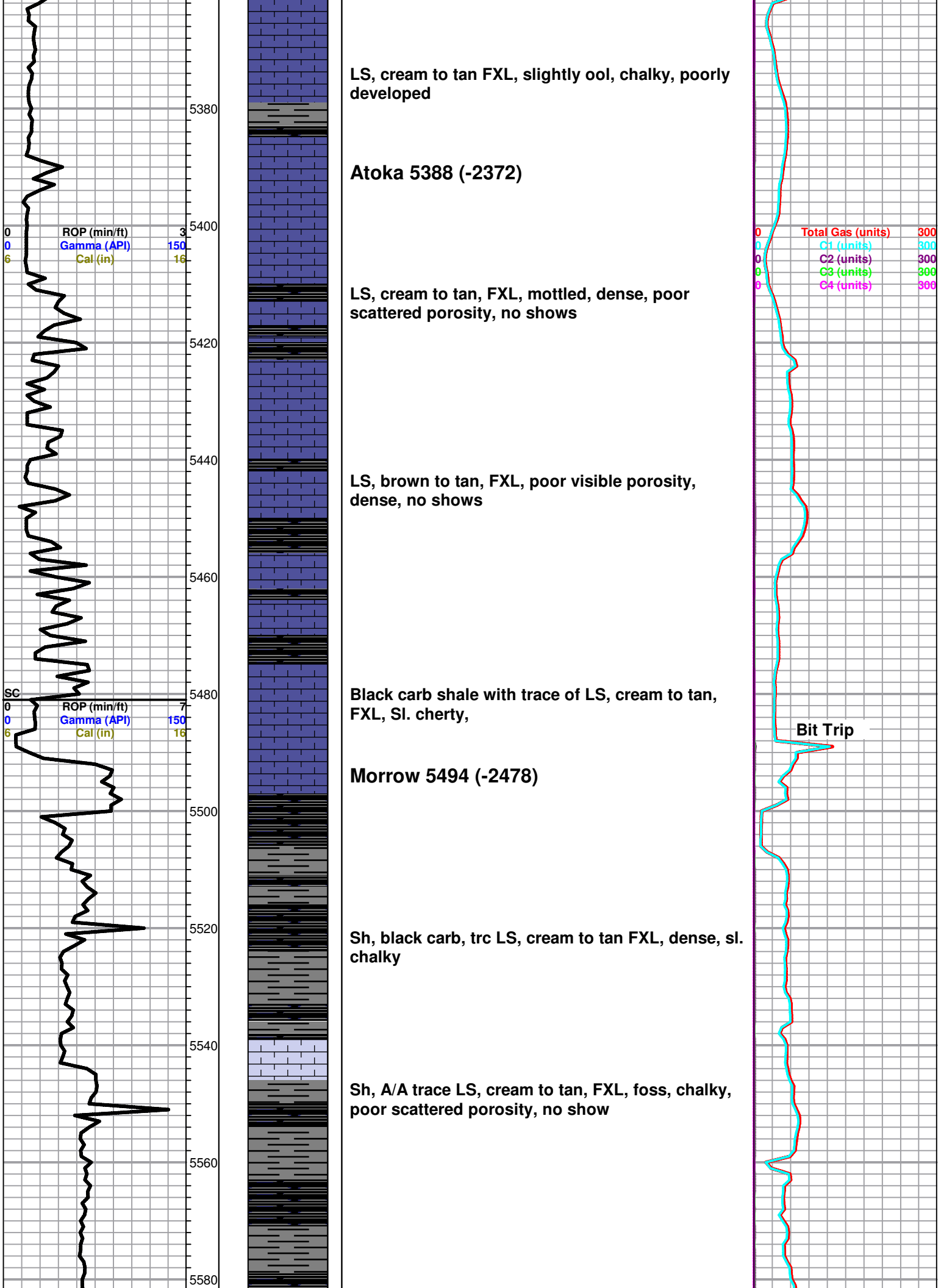

4280
4300
4320
4340
4360
4380
4400
4420
4440
4460
4480
0 ROP (min/ft) 3
0 Gamma (API) 150
6 Cal (in) 16
0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100

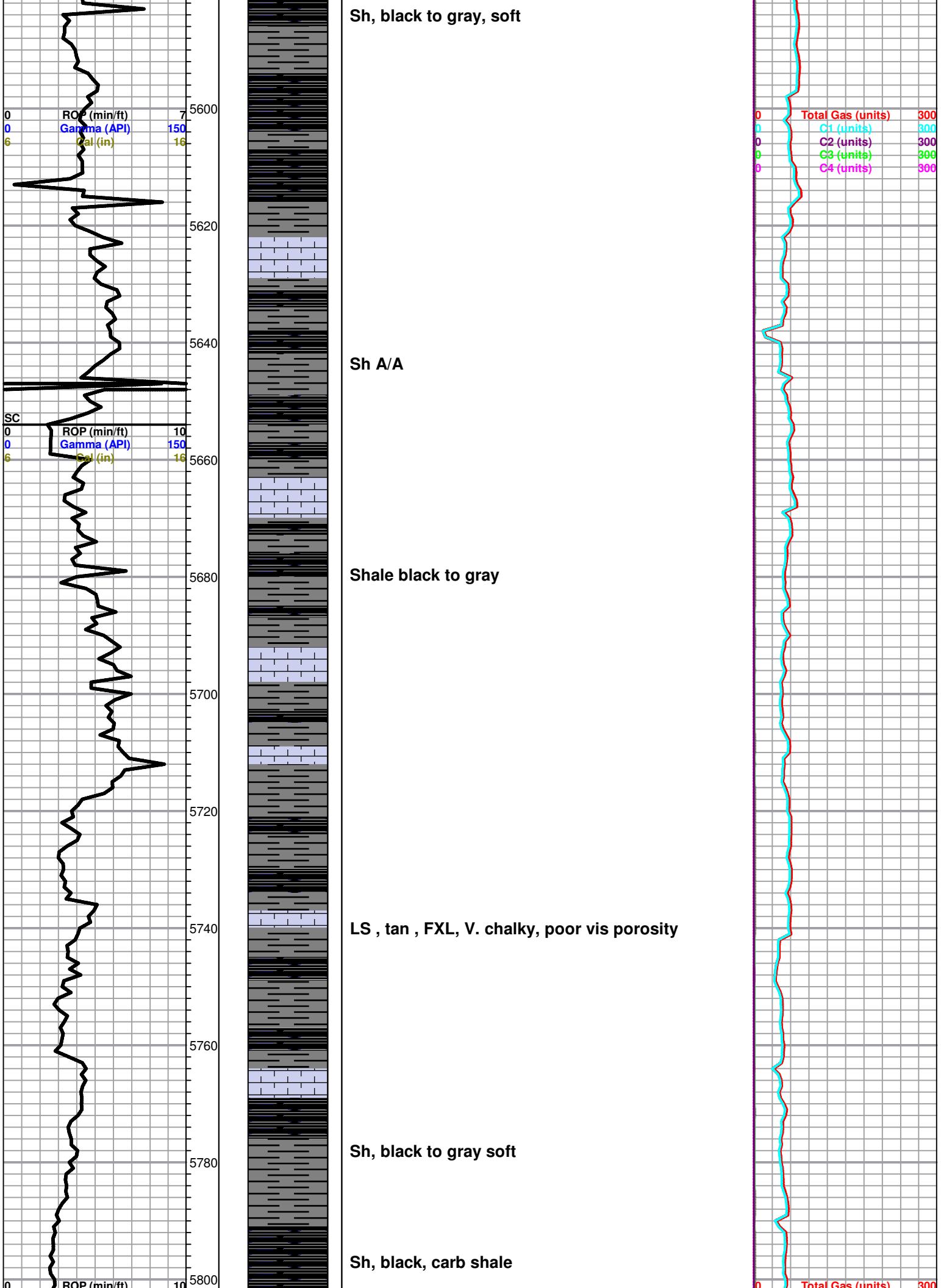

4500
4520
4540
4560
4580
4600
4620
4640
4660
4680
4700
0 ROP (min/ft) 3
0 Gamma (API) 150
6 Cal (in) 16
LS, cream to tan, mottled, FXL, foss, poor visible porosity
LS, tan, FXL, cherty, foss, dense
LS, tan to cream, FXL, cherty, dense, trace black shale
0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100
SC
0 Total Gas (units) 300
0 C1 (units) 300
0 C2 (units) 300
0 C3 (units) 300
0 C4 (units) 300

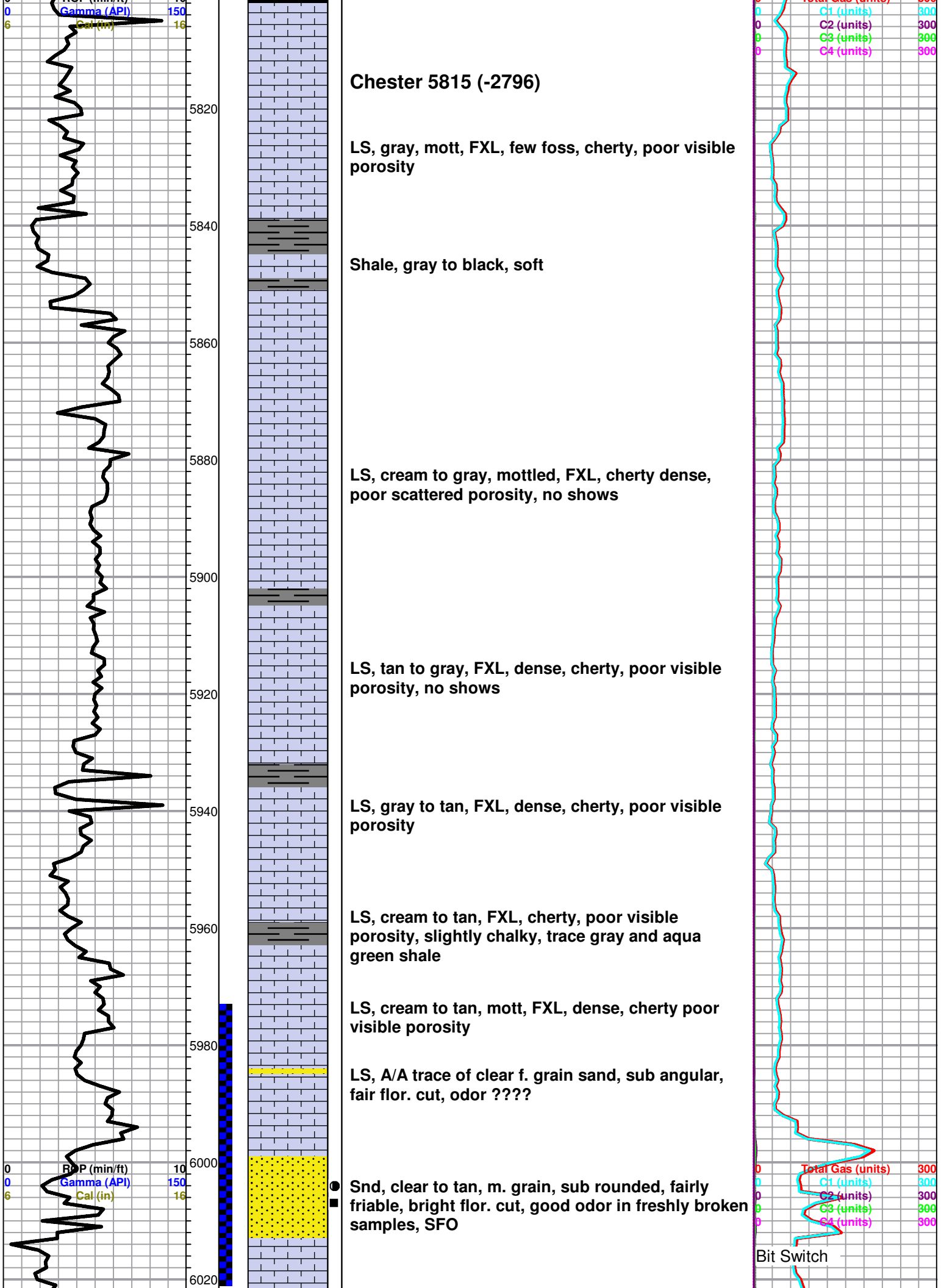

0 ROP (min/ft) 3
0 Gamma (API) 150
6 Cal (in) 16
0 Total Gas (units) 300
0 C1 (units) 300
0 C2 (units) 300
0 C3 (units) 300
0 C4 (units) 300
4720
4740
4760
4780
4800
4820
4840
4860
4880
4900
4920
LS, tan to brown, FXL, dense, cherty, poor visible porosity
LS, gray to tan, FXL, slightly dol, FXL, dense, trace green and maroon shale
LS, tan to gray FXL, chalky, foss, poor scattered porosity
LS, tan to gray, FXL, chalky foss, poor scattered porosity, no shows
LS, white to cream, FXL, dense, slightly chalky, poor visible porosity
LS white to cream, FXL, dense, slightly cherty no shows
Marmaton 4909 (-1893)

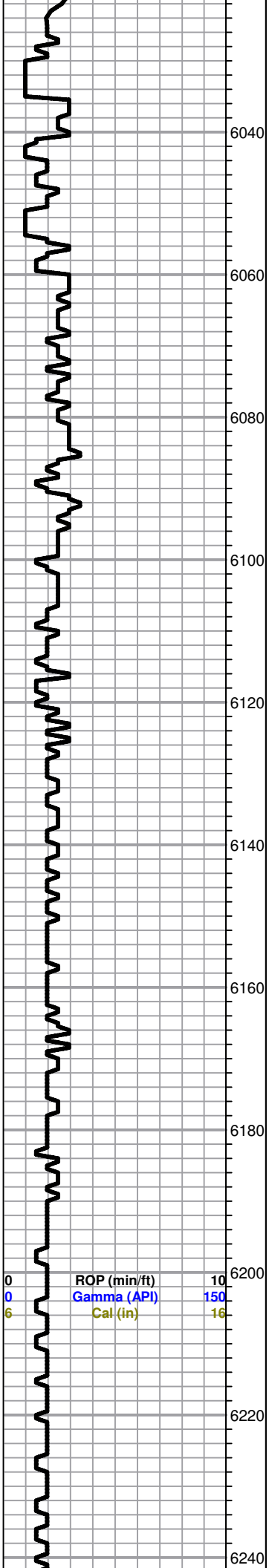

0 ROP (min/ft) 3
0 Gamma (API) 150
6 Cal (in) 16
4940
4960
4980
5000
5020
5040
5060
5080
5100
5120
5140
0 Total Gas (units) 300
0 C1 (units) 300
0 C2 (units) 300
0 C3 (units) 300
0 C4 (units) 300
LS, cream to tan mottled, FXL, chalky, dense,
LS, cream to tan, mottled, FXL, dense, slightly cherty, poor visible porosity, no shows
LS, tan, FXL, cherty, foss, dense
LS, tan to brown to gray, FXL, dense, poor scattered porosity, no shows
Cheroke Shale 5088 (-2068)
Black carb shale

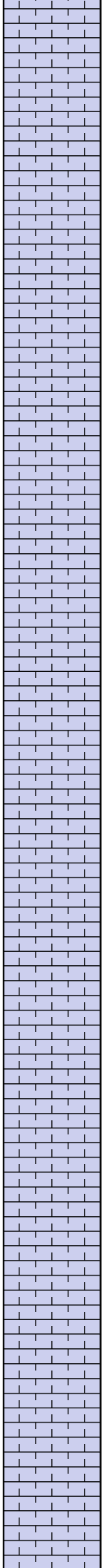

ROP (min/ft) 0 3
Gamma (API) 0 150
Cal (in) 6 16
Total Gas (units) 0 300
C1 (units) 0 300
C2 (units) 0 300
C3 (units) 0 300
C4 (units) 0 300
5160
5180
5200
5220
5240
5260
5280
5300
5320
5340
5360
LS, tan to brown, FXL, dense, cherty, poor visible porosity
Sh, black to gray, silty
LS, cream to tan, FXL, cherty, poor scattered porosity, no shows
Sh, gray to black, trace LS, tan to brown, chalky, foss, poor visible porosity
Sh gray to black
LS, gray to tan, FXL, dense, poor visible porosity
Sh, gray to black, LS, cream to tan, FXL, chalky, few foss


0 ROP (min/ft) 3
0 Gamma (API) 150
6 Cal (in) 16
SC
0 ROP (min/ft) 7
0 Gamma (API) 150
6 Cal (in) 16
5380
5400
5420
5440
5460
5480
5500
5520
5540
5560
5580
0 Total Gas (units) 300
0 C1 (units) 300
0 C2 (units) 300
0 C3 (units) 300
0 C4 (units) 300
LS, cream to tan FXL, slightly ool, chalky, poorly developed
Atoka 5388 (-2372)
LS, cream to tan, FXL, mottled, dense, poor scattered porosity, no shows
LS, brown to tan, FXL, poor visible porosity, dense, no shows
Black carb shale with trace of LS, cream to tan, FXL, Sl. cherty,
Bit Trip
Morrow 5494 (-2478)
Sh, black carb, trc LS, cream to tan FXL, dense, sl. chalky
Sh, A/A trace LS, cream to tan, FXL, foss, chalky, poor scattered porosity, no show


0 ROP (min/ft) 7
0 Gamma (API) 150
6 Cal (in) 16
SC
0 ROP (min/ft) 10
0 Gamma (API) 150
6 Cal (in) 16
0 ROP (min/ft) 10
5600
5620
5640
5660
5680
5700
5720
5740
5760
5780
5800
0 Total Gas (units) 300
0 C1 (units) 300
0 C2 (units) 300
0 C3 (units) 300
0 C4 (units) 300
0 Total Gas (units) 300
Sh, black to gray, soft
Sh A/A
Shale black to gray
LS , tan , FXL, V. chalky, poor vis porosity
Sh, black to gray soft
Sh, black, carb shale


0 ROP (min/ft) 10
0 Gamma (API) 150
6 Cal (in) 16
5820
5840
5860
5880
5900
5920
5940
5960
5980
6000
6020
Chester 5815 (-2796)
LS, gray, mott, FXL, few foss, cherty, poor visible porosity
Shale, gray to black, soft
LS, cream to gray, mottled, FXL, cherty dense, poor scattered porosity, no shows
LS, tan to gray, FXL, dense, cherty, poor visible porosity, no shows
LS, gray to tan, FXL, dense, cherty, poor visible porosity
LS, cream to tan, FXL, cherty, poor visible porosity, slightly chalky, trace gray and aqua green shale
LS, cream to tan, mott, FXL, dense, cherty poor visible porosity
LS, A/A trace of clear f. grain sand, sub angular, fair flor. cut, odor ????
Snd, clear to tan, m. grain, sub rounded, fairly friable, bright flor. cut, good odor in freshly broken samples, SFO
0 Total Gas (units) 300
0 C1 (units) 300
0 C2 (units) 300
0 C3 (units) 300
0 C4 (units) 300
Bit Switch





Sh, gray, black, maroon, trc. LS, brn-tan, FXL poor visible porosity, dense

LS, tan to brown, micro ool, poor INXLN porosity, no shows

LS, A/A

St. Gen 6055 (-3039)

LS, tan to maroon, micro ool, no shows

LS, cream to tan, FXL, cherty, dense, poor visible porosity, no shows

LS, cream tan gray, cherty, poor visible porosity, no shows

LS, A/A

St. Louis 6148 (-3132)

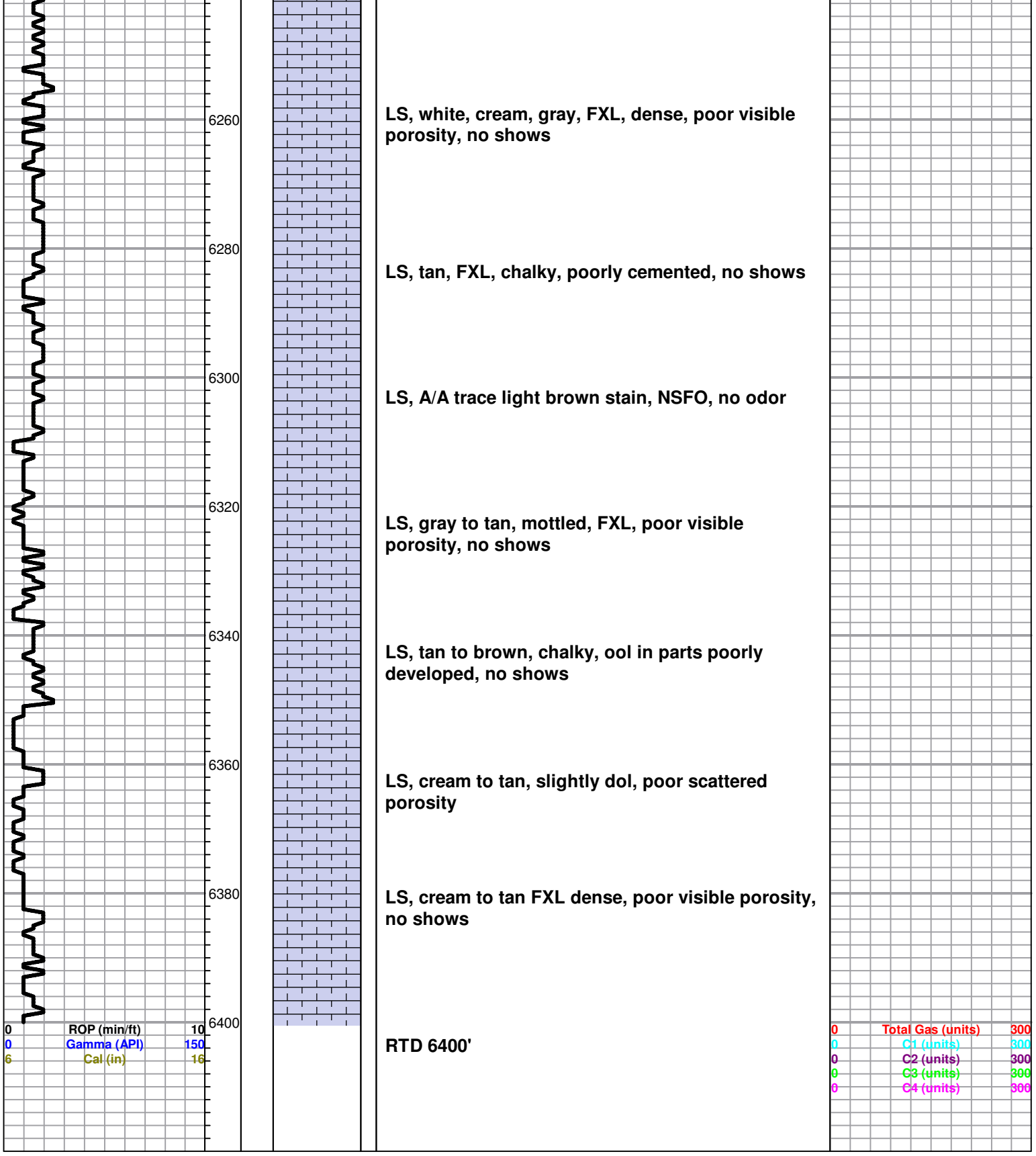
LS, cream to tan FXL, dense, cherty, poor visible porosity no shows

LS, cream to white, few ool, chalky, poorly developed, no shows

LS, white to cream, FXL, dense, cherty, few ool, poorly developed, no shows

Bloodhound System malfunction @6026' Drill time kept by rig and gas dector was monitored by geologist.

0 Total Gas (units) 300
0 C1 (units) 300
0 C2 (units) 300
0 C3 (units) 300
0 C4 (units) 300


6260
6280
6300
6320
6340
6360
6380
6400
LS, white, cream, gray, FXL, dense, poor visible porosity, no shows
LS, tan, FXL, chalky, poorly cemented, no shows
LS, A/A trace light brown stain, NSFO, no odor
LS, gray to tan, mottled, FXL, poor visible porosity, no shows
LS, tan to brown, chalky, ool in parts poorly developed, no shows
LS, cream to tan, slightly dol, poor scattered porosity
LS, cream to tan FXL dense, poor visible porosity, no shows
RTD 6400'
0 ROP (min/ft) 10
0 Gamma (API) 150
6 Cal (in) 16
0 Total Gas (units) 300
0 C1 (units) 300
0 C2 (units) 300
0 C3 (units) 300
0 C4 (units) 300