KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1048231

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5316
Name: Falcon Exploration, Inc.
Address 1: 125 N MARKET STE 1252
Address 2:
City: WICHITA State: KS Zip: 67202 + 1719
Contact Person: CYNDE WOLF
Phone: (316) 262-1378
CONTRACTOR: License # 5142
Name: Sterling Drilling Company
Wellsite Geologist: Brian Fisher;Dave Williams,Jon Christensen
Purchaser:

Designate Type of Completion:

- [x] New Well
- [ ] Re-Entry
- [ ] Workover

- [x] 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
- [ ] Conv. to GSW
- [ ] Plug Back: Plug Back Total Depth
- [ ] Commingled Permit #:
- [ ] Dual Completion Permit #:
- [ ] SWD Permit #:
- [ ] ENHR Permit #:
- [ ] GSW Permit #:

09/15/2010	09/29/2010	11/03/2010
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-025-21516-00-00
Spot Description:
SW - NW - NW - NW Sec. 11 Twp. 31 S. R. 22 [ ] East [x] West
510 Feet from [x] North / [ ] South Line of Section
210 Feet from [ ] East / [x] West Line of Section
Footages Calculated from Nearest Outside Section Corner:
[ ] NE [x] NW [ ] SE [ ] SW
County: Clark
Lease Name: GRC Well #: 3-11(NW)
Field Name: LIBERTY RIVER
Producing Formation: MORROW
Elevation: Ground: 2202 Kelly Bushing: 2211
Total Depth: 5750 Plug Back Total Depth: 5438
Amount of Surface Pipe Set and Cemented at: 690 Feet
Multiple Stage Cementing Collar Used? [ ] Yes [x] 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: 27500 ppm Fluid volume: 1800 bbls
Dewatering method used: Haul Off Pit
Location of fluid disposal if hauled offsite:
Operator Name: DILLCO
Lease Name: REGIER SWD License #: 6652
Quarter NE Sec. 17 Twp. 33 S. R. 27 [ ] East [x] West
County: MEADE Permit #: D21232

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

- [x] **Letter of Confidentiality Received**
  Date: 12/23/2010
- [x] **Confidential Release Date:** 12/22/2012
- [x] **Wireline Log Received**
- [x] **Geologist Report Received**
- [ ] **UIC Distribution**

ALT [x] I [ ] II [ ] III **Approved by:** NAOMI JAMES **Date:** 12/27/2010

Side Two

1048231

Operator Name: Falcon Exploration, Inc. Lease Name: GRC Well #: 3-11(NW)

Sec. 11 Twp. 31 S. R. 22 ☐ East ☑ West County: Clark

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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

Electric Log Submitted Electronically ☑ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:
Attached

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

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☑ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
CONDUCTOR	17.5	13.375	54	272	CLASS A	285	2% GEL, 3% CC
SURFACE	12.25	8.625	24	690.7	CLASS A	800	2% GEL, 3% CC, 1/4# FS
PRODUCTION	7.875	5.5	15.5	5438	AA2	200	

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose: ☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
	-			
	-			

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	5213-5219	750 GAL 10% HSAS	5213-5219

TUBING RECORD: Size: 2.375 Set At: 5253 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:
5213-5219

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

Form	ACO1 - Well Completion
Operator	Falcon Exploration, Inc.
Well Name	GRC 3-11(NW)
Doc ID	1048231

All Electric Logs Run

MEL
CNL/CDL
DIL
BHCS

Form	ACO1 - Well Completion
Operator	Falcon Exploration, Inc.
Well Name	GRC 3-11(NW)
Doc ID	1048231

Tops

Name	Top	Datum
HEEBNER	4277	-2066
LANSING	4472	-2261
BKC	4919	-2708
MARMATON	4939	-2728
PAWNEE	5022	-2811
CHEROKEE	5074	-2863
MORROW SH	5179	-2968
MORROW SD	5196	-2985
MISS	5227	-3016
COWLEY FACIES	5503	-3292

ALLIED CEMENTING CO., LLC. 035829

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Great Bend

DATE 9-15-10	SEC. 11	TWP. 31S	RANGE 22W	CALLED OUT	ON LOCATION	JOB START 9:30 PM	JOB FINISH 10:00 PM
LEASE GRC WELL # 3-11			LOCATION Buckeln 2 west To 129 RD			COUNTY Clark	STATE KS
OLD OR (NEW) (Circle one)			11½ South East into				

CONTRACTOR Sterling Rig 4
TYPE OF JOB Conductor
HOLE SIZE 17½ T.D. 275
CASING SIZE 13 3/8 54.5# DEPTH 272.17
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX 500 MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 43.57
PERFS.
DISPLACEMENT 35.25 BBLS

OWNER Falcon Exploration

EQUIPMENT

PUMP TRUCK CEMENTER Wayne-D
181 HELPER Bob-R
BULK TRUCK
344 DRIVER Bill
BULK TRUCK
DRIVER

CEMENT

AMOUNT ORDERED 285 SX Class A 3% cc 2% Gel 50# Super

COMMON	285	@ 13.50	3,847.50
POZMIX		@	
GEL	5	@ 20.25	101.25
CHLORIDE	10	@ 51.50	515.00
ASC		@	
Super	50	@ 1.27	63.50
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	285	@ 2.25	641.25
MILEAGE	285 x .30 x 10		855.00
		TOTAL	6,023.50

REMARKS:

Pipe on Bottom Break Circulation with Rig mud Shut Down Hook up To cement line Mix 285 SX class A 3% cc 2% Gel Shut Down Release plug Displace 35.25 BBLS fresh water hand plug at 500 PSI Cement did circulate Shut in Washup Rig Down

SERVICE

DEPTH OF JOB 272.17
PUMP TRUCK CHARGE 991.00
EXTRA FOOTAGE @
MILEAGE 30 @ 7.00 210.00
MANIFOLD @
@
@
TOTAL 1201.00

CHARGE TO: Falcon Exploration
STREET Box 551
CITY Russell STATE KS ZIP 67665

PLUG & FLOAT EQUIPMENT

1 Rubber plug	@ 213.00	213.00
1 Baskets	@ 333.00	333.00
1 Baffle plate	@ 175.00	175.00
	@	
	@	
	TOTAL	721.00

To Allied Cementing Co., 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 [redacted]
DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME X Leon Kuhn
SIGNATURE X

ALLIED CEMENTING CO., LLC.

036831

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Great Bend

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
9-17-10	11	31S	22w			1100 Am	1130 Am

LEASE: GRC (NW3?) | WELL # 3-11 | LOCATION: Bucklen west To 129 RD, 11½ South East into | COUNTY: Clark | STATE: KS

OLD OR (NEW) (Circle one)

CONTRACTOR: Sterling Rig 4
OWNER: Falcon Exploration

TYPE OF JOB: Surface
HOLE SIZE: 12¼ T.D. 695
CASING SIZE: 8⅝ DEPTH 690
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 42.75
PERFS.
DISPLACEMENT 41 BBLS

EQUIPMENT

PUMP TRUCK # 181 — CEMENTER: Wayne — HELPER: Bob-R
BULK TRUCK # 344 — DRIVER: Bill
BULK TRUCK # — DRIVER:

REMARKS:

Run casing Baffle Plate at 42.75 feet 1 Baskett at 680
1 Baskett at 306 1 Baskett at 264
Mix 250 sx class A 3%cc 2% Gel
Displace 41.25 BBLS Plug 150 sx
Down Shut Down ~~Mix~~ Top off 84 sx
~~Mix~~ down Back side

CEMENT

AMOUNT ORDERED: 350 sx Class A
3% cc 2% Gel
used 484
50# sugar

Item	Qty	@	Amount
COMMON	484	13.50	6,534.00
POZMIX			
GEL	9	20.25	182.25
CHLORIDE	17	51.50	875.50
ASC			
Sugar	50#		63.50
HANDLING	484	2.25	1089.00
MILEAGE	484 x 30 x .10		1452.00
TOTAL			10,196.25

SERVICE

Item	Detail	@	Amount
DEPTH OF JOB	690.75		
PUMP TRUCK CHARGE	0-300		991.00
EXTRA FOOTAGE	300-690	.75	292.50
MILEAGE	30	7.00	210.00
MANIFOLD			
TOTAL			1,493.50

CHARGE TO: Falcon Exploration
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

Item	@	Amount
1 Rubber Plug	102.00	102.00
3 Baskett	221.00	663.00
1 Baffle Plate	67.20	67.20
TOTAL		832.20

To Allied Cementing Co., 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.

PRINTED NAME X

SIGNATURE X

SALES TAX (If Any)
TOTAL CHARGES [illegible]
DISCOUNT IF PAID IN 30 DAYS

ALLIED CEMENTING CO., LLC. 035647

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Great Bend

DATE 9-18-10	SEC. 11	TWP. 31S	RANGE 22W	CALLED OUT	ON LOCATION	JOB START 9:30 Am	JOB FINISH 10:30 Am
LEASE GBC	WELL # 3-11		LOCATION Bucklin 2W 13S			COUNTY Clark	STATE KS
OLD OR (NEW) (Circle one)			Einto				

CONTRACTOR Sterling Drilling Rig 4
TYPE OF JOB Surface
HOLE SIZE 12¼ T.D. 695'
CASING SIZE 8 5/8 DEPTH 690'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT

OWNER Same

CEMENT
AMOUNT ORDERED 300 sks com 3%cc

EQUIPMENT

PUMP TRUCK # 181 CEMENTER Andrew
HELPER Wayne
BULK TRUCK # 456-198 DRIVER Bob
BULK TRUCK # DRIVER

COMMON	300 sks	@ 13.50	4050.00
POZMIX		@	
GEL		@	
CHLORIDE	10 sks	@ 51.50	515.00
ASC		@	
Floseal	50	@ 2.45	122.50
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	300	@ 2.25	675.00
MILEAGE	300 x 30 x .10		900.00
		TOTAL	6,262.50

REMARKS:

mix 300 sks down 8⅝ casing Release plug Displaced 5 BBL locked up shut in. Run 80' 1" in between 13⅜ and 8⅝ casing Circulate cement to surface with 100 sks

SERVICE

DEPTH OF JOB 690'

PUMP TRUCK CHARGE	0-300		991.00
EXTRA FOOTAGE	390	@ .75	292.50
MILEAGE	30	@ 7.00	210.00
MANIFOLD		@	
		@	
		@	
		TOTAL	1,493.50

CHARGE TO: Falcon Exploration inc
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

		@	
1 Rubber Plug		@ 102.00	102.00
		@	
		@	
		@	
		TOTAL	102.00

To Allied Cementing Co., 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 [redacted]
DISCOUNT IF PAID IN 30 DAYS

PRINTED NAME
SIGNATURE

[B]asic [En]ergy services, L.P.

TREATMENT REPORT

Customer	Lease No.	Date
FALCON EXPLORATION		7-30-10
Lease: GRC	Well #: [illegible] (NW)	

Field Order #	Station	Casing	Depth	County	State
[illegible]521	PRATT, KS.	5 1/2		CLARK	KS.

Type Job	Formation	Legal Description
CNW - 5 1/2 L.S. w/PACKER SHOE		11-31-22

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME			
Casing Size: 5 1/2	Tubing Size	Shots/Ft	CMT -	Acid: [illegible] AA2		RATE	PRESS	ISIP
Depth: [illegible]	Depth	From	To	Pre Pad: [illegible] 1.43 cuft³	Max			5 Min.
Volume: [illegible]	Volume	From	To	Pad	Min			10 Min.
Max Press: 1500	Max Press	From	To	Frac	Avg			15 Min.
Well Connection: P.C.	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth: [illegible]	Packer Depth	From	To	Flush: 1[illegible]	Gas Volume			Total Load

Customer Representative	Station Manager	Treater
CHUCK	D. SCOTT	S. ORLANDO

Service Units	27463	17869	11842	17826	17860						
Driver Names	ORLANDO	LESLEY	—	McGraw							

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
4:27AM					ON LOCATION - SAFETY MEETING
					START RUNNING 5 1/2 x 15.5# CSG.
					CENT - 2, 5, 3, 10
					BASKET - 3, 6
	1200				[illegible]
					[illegible]
[illegible]	[illegible]		3	6	[illegible]
[illegible]	[illegible]		10	6	[illegible] II
4:[illegible]8	400		51	6	[illegible] @ 15#/gal
					[illegible]
					[illegible]
[illegible]			[illegible]	6	[illegible]
[illegible]	[illegible]		[illegible]		[illegible]
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]
					[illegible]
					[illegible]
					[illegible]
					[illegible]

Company	**Falcon Exploration, Inc.**	Lease Name	**GRC (NW)**		
Address	**125 N. Market, Ste. 1252**	Lease #	**3-11**		
CSZ	**Wichita, KS 67202**	Legal Desc	**SW-NW-NW-NW**	Job Ticket	**2123**
Attn.	**Dave Williams**	Section	**11**	Range	**22W**
		Township	**31 S**		
		County	**Clark**	State	**KS**
		Drilling Cont	**Sterling Drilling Co. Rig #4**		

Comments **Legal Description Feet: 510' FNL & 210' FWL**
Field: Liberty River

GENERAL INFORMATION

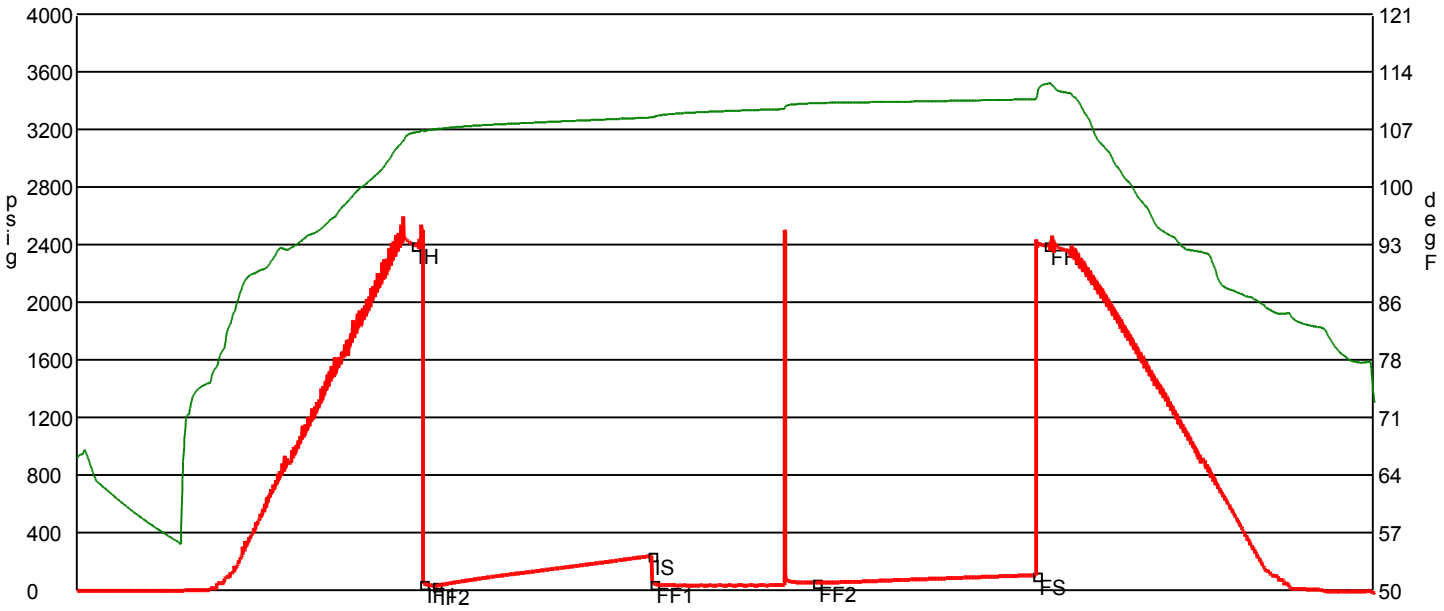
				Chokes	**3/4**	Hole Size	**7 7/8**
Test #	**1**	Test Date	**9/26/2010**	Top Recorder #	**W1119**		
Tester	**Tim Venters**			Mid Recorder #	**W1022**		
Test Type	**Conventional Bottom Hole**			Bott Recorder #	**13310**		
	Successful Test						
# of Packers	**2.0**	Packer Size	**6 3/4**	Mileage	**132**	Approved By	
				Standby Time	**0**		
Mud Type	**Gel Chem**			Extra Equipmnt	**Jars & Safety joint**		
Mud Weight	**9.2**	Viscosity	**48.0**	Time on Site	**1:50 AM**		
Filtrate	**10.0**	Chlorides	**8000**	Tool Picked Up	**3:50 AM**		
				Tool Layed Dwn	**12:00 PM**		
Drill Collar Len	**218.0**						
Wght Pipe Len	**0**			Elevation	**2202.00**	Kelley Bushings	**2211.00**
Formation	**Inola**			Start Date/Time	**9/26/2010 3:02 AM**		
Interval Top	**5069.0**	Bottom	**5184.0**	End Date/Time	**9/26/2010 12:02 PM**		
Anchor Len Below	**115.0**	Between	**0**				
Total Depth	**5184.0**						

Blow Type **Weak surface blow at the start of the initial flow period, building to 1 inch. Weak 1/4 inch blow at the start of the final flow period, building to 1 inch in 45 minutes. At the 55 minute mark, we flushed the tool and got a 2 inch blow la sting the rest of the period. Times: 5, 90, 70, 90.**

RECOVERY

Feet	Description	Gas	Oil	Water	Mud
65	Mud with a very slight trace of oil	0% 0ft	trace	0% 0ft	100%65ft

DST Fluids **0**



	Date	Time	Pressure	Temp	
IH	9/26/2010 5:22:00 AM	2.333333	2398.705	106.473	Initial Hydro-static
IF1	9/26/2010 5:25:30 AM	2.391667	47.243	106.619	Initial Flow (1)
IF2	9/26/2010 5:30:50 AM	2.480556	33.975	106.867	Initial Flow (2)
IS	9/26/2010 7:00:40 AM	3.977778	240.562	108.304	Initial Shut-In
FF1	9/26/2010 7:01:30 AM	3.991667	47.124	108.362	Final Flow (1)
FF2	9/26/2010 8:09:20 AM	5.122222	54.454	110.07	Final Flow (2)
FS	9/26/2010 9:41:10 AM	6.652778	105.591	110.563	Final Shut-In
FH	9/26/2010 9:46:00 AM	6.733333	2397.239	112.484	Final Hydro-static

GAS FLOWS

Min Into IFP	Min Into FFP	Gas Flows	Pressure	Choke

Company	**Falcon Exploration, Inc.**	Lease Name	**GRC (NW)**		
Address	**125 N. Market, Ste. 1252**	Lease #	**3-11**		
CSZ	**Wichita, KS 67202**	Legal Desc	**SW-NW-NW-NW**	Job Ticket	**2123**
Attn.	**Dave Williams**	Section	**11**	Range	**22W**
		Township	**31 S**		
		County	**Clark**	State	**KS**
		Drilling Cont	**Sterling Drilling Co. Rig #4**		

Comments **Legal Description Feet: 510' FNL & 210' FWL**
Field: Liberty River

GENERAL INFORMATION

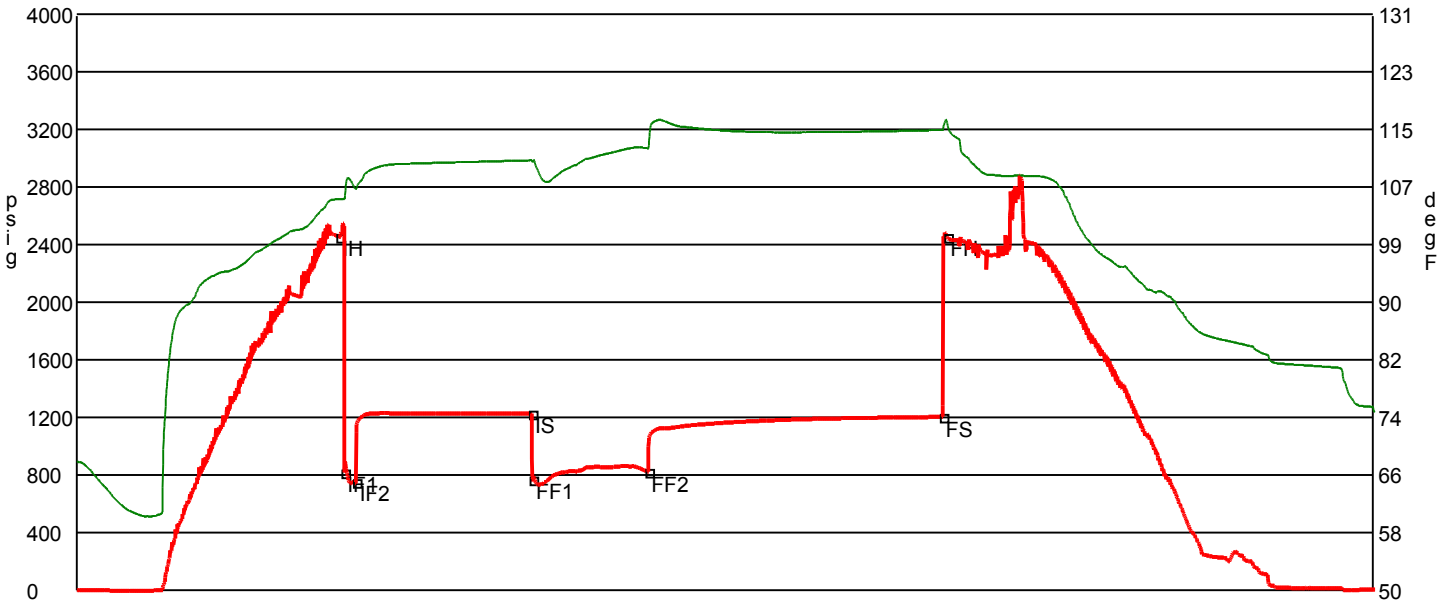
				Chokes	**3/4**	Hole Size	**7 7/8**
Test #	**2**	Test Date	**9/27/2010**	Top Recorder #	**W1022**		
Tester	**Tim Venters**			Mid Recorder #	**W1119**		
Test Type	**Conventional Bottom Hole**			Bott Recorder #	**13310**		
	Successful Test						
# of Packers	**2.0**	Packer Size	**6 3/4**	Mileage	**132**	Approved By	
				Standby Time	**0**		
Mud Type	**Gel Chem**			Extra Equipmnt	**Jars & Safety joint**		
Mud Weight	**9.1**	Viscosity	**51.0**	Time on Site	**11:40 PM**		
Filtrate	**10.4**	Chlorides	**7000**	Tool Picked Up	**1:15 AM**		
				Tool Layed Dwn	**11:50 AM**		
Drill Collar Len	**218.0**						
Wght Pipe Len	**0**			Elevation	**2202.00**	Kelley Bushings	**2211.00**
Formation	**Morrow**			Start Date/Time	**9/27/2010 12:45 AM**		
Interval Top	**5177.0**	Bottom	**5220.0**	End Date/Time	**9/27/2010 11:51 AM**		
Anchor Len Below	**43.0**	Between	**0**				
Total Depth	**5220.0**						

Blow Type **Very strong blow throughout the initial flow period, hitting the bottom of the b ucket instantaneously. GTS: 2 minutes. Very strong blow throughout the final f low period, hitting the bottom of the bucket and gas to surface instantaneously. MTS in 25 minutes. Misty oil to surface in 52 minutes. Blow back during the final shut-in period that built to 12 inches. Times: 5, 90, 60, 150. We reverse d fluids out and did not recover any oil, just put mud in vac truck.**

RECOVERY

Feet	Description	Gas	Oil	Water	Mud
4515	Gas in Pipe	100% 4515ft	0% 0ft	0% 0ft	0% 0ft
320	Very heavy mud cut oil	0% 0ft	53% 169.6ft	0% 0ft	47% 150.4ft
130	Very slight oil, gas cut mud	24% 31.2ft	10% 13ft	0% 0ft	66% 85.8ft
60	Gassy, slight oil cut mud	7% 4.2ft	20% 12ft	0% 0ft	73% 43.8ft
60	Gas, water, slight mud cut oil	20% 12ft	48% 28.8ft	22% 13.2ft	10% 6ft
65	Very slight oil, slight mud cut water	0% 0ft	3% 2ft	74% 48.1ft	23% 15ft

DST Fluids **32000**



	Date	Time	Pressure	Temp	
IH	9/27/2010 2:58:50 AM	2.230556	2456.253	105.064	Initial Hydro-static
IF1	9/27/2010 3:01:30 AM	2.275	821.211	105.07	Initial Flow (1)
IF2	9/27/2010 3:07:30 AM	2.375	754.375	106.444	Initial Flow (2)
IS	9/27/2010 4:37:50 AM	3.880556	1230.307	110.492	Initial Shut-In
FF1	9/27/2010 4:38:20 AM	3.888889	772.468	110.228	Final Flow (1)
FF2	9/27/2010 5:37:40 AM	4.877778	824.151	112.167	Final Flow (2)
FS	9/27/2010 8:09:10 AM	7.402778	1205.625	114.771	Final Shut-In
FH	9/27/2010 8:11:20 AM	7.438889	2457.154	115.865	Final Hydro-static

GAS FLOWS

Min Into IFP	Min Into FFP	Gas Flows	Pressure	Choke
5	0	1694.00 mcf	16.00 psig	1.50 in
0	10	2503.00 mcf	29.00 psig	1.50 in
0	20	2737.00 mcf	33.00 psig	1.50 in

KANSAS
CORPORATION COMMISSION

December 20, 2010

CYNDE WOLF
Falcon Exploration, Inc.
125 N MARKET STE 1252
WICHITA, KS 67202-1719

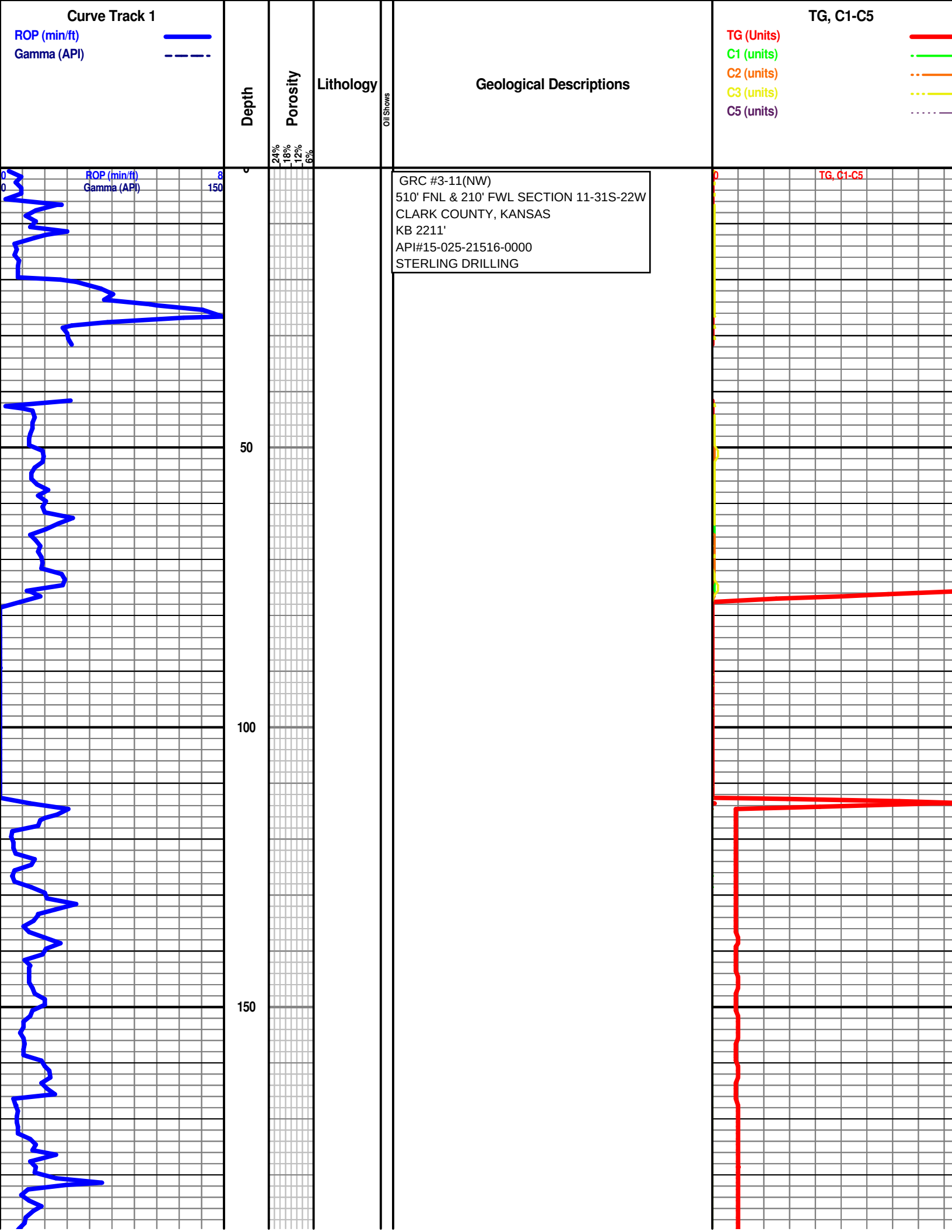
Re: ACO1
API 15-025-21516-00-00
GRC 3-11(NW)
NW/4 Sec.11-31S-22W
Clark County, Kansas

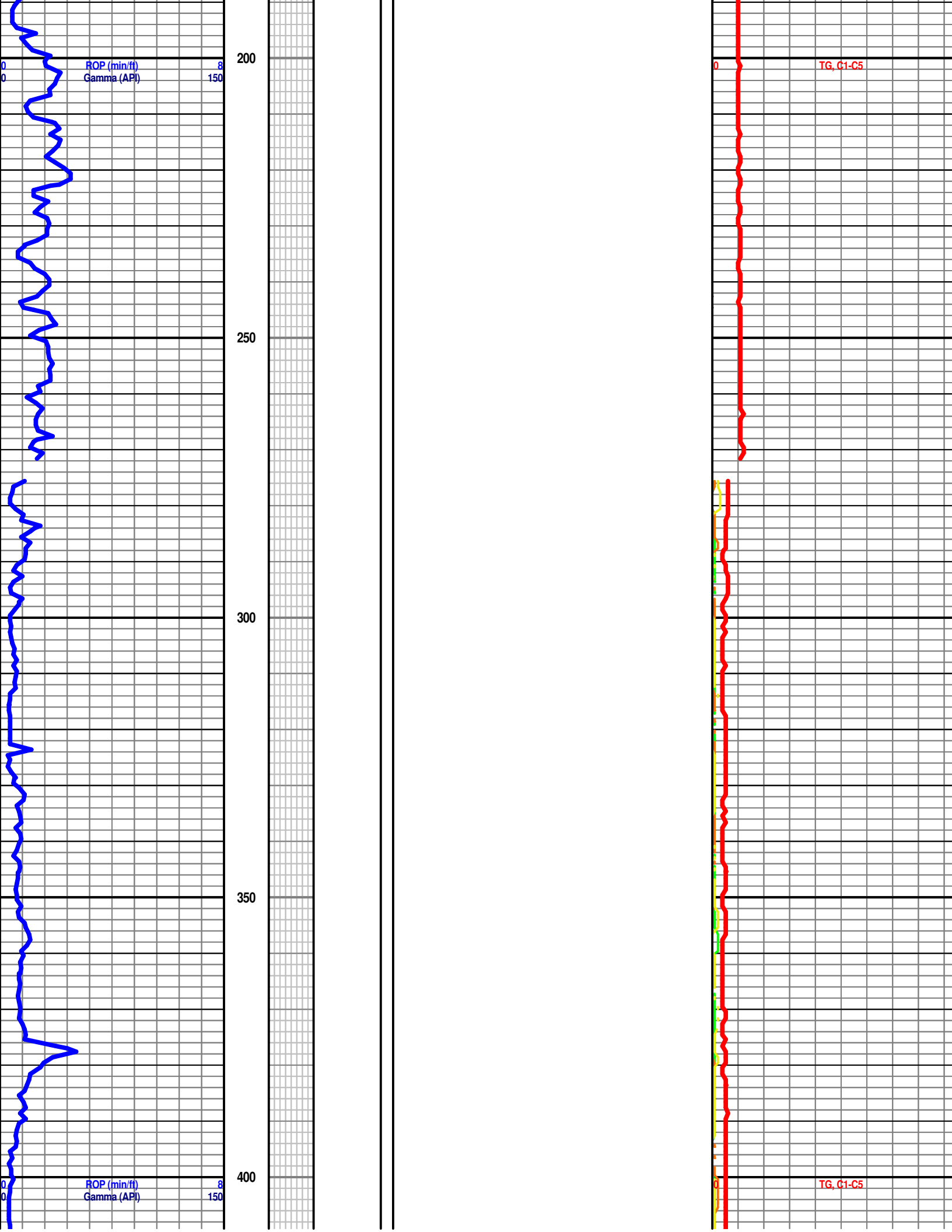
Dear Production Department:

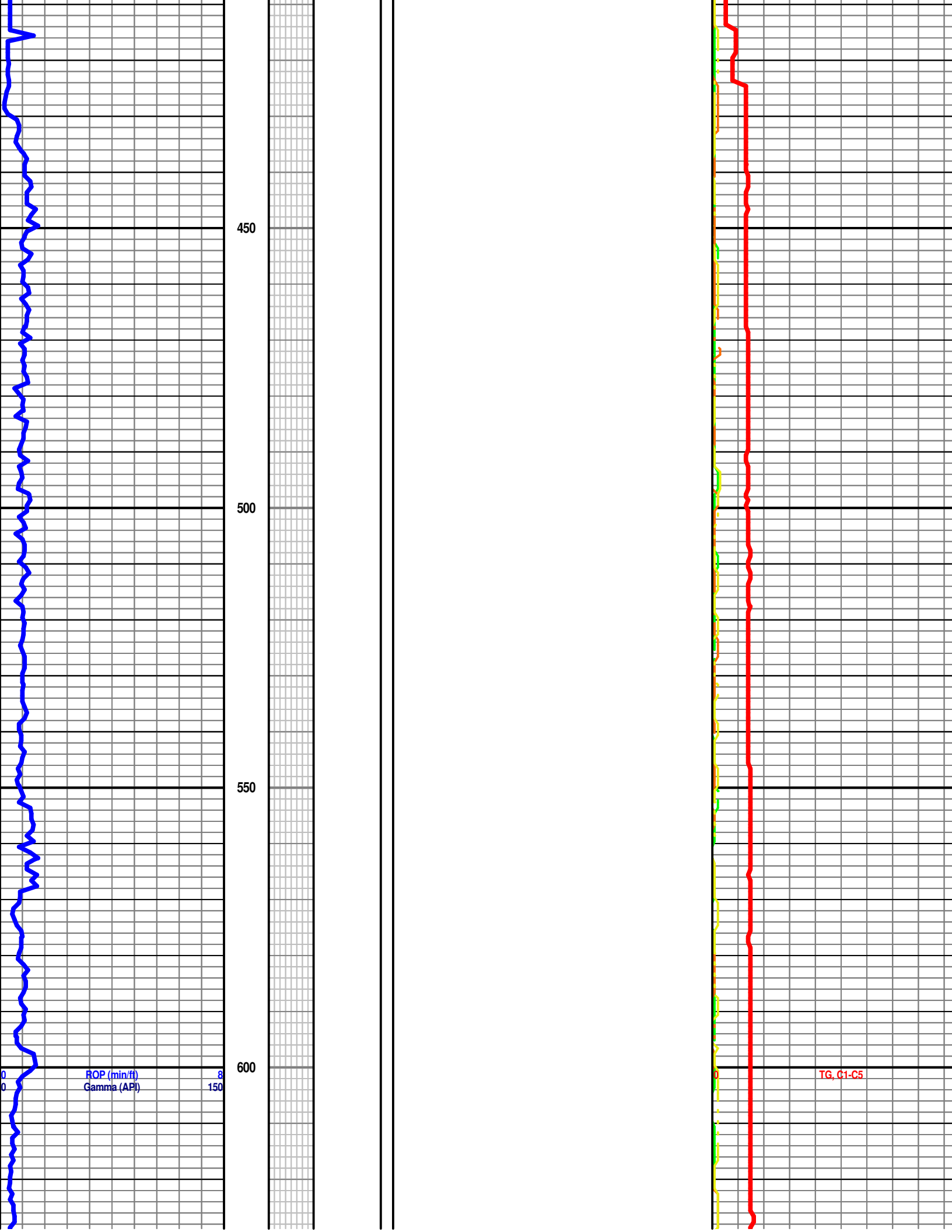
We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

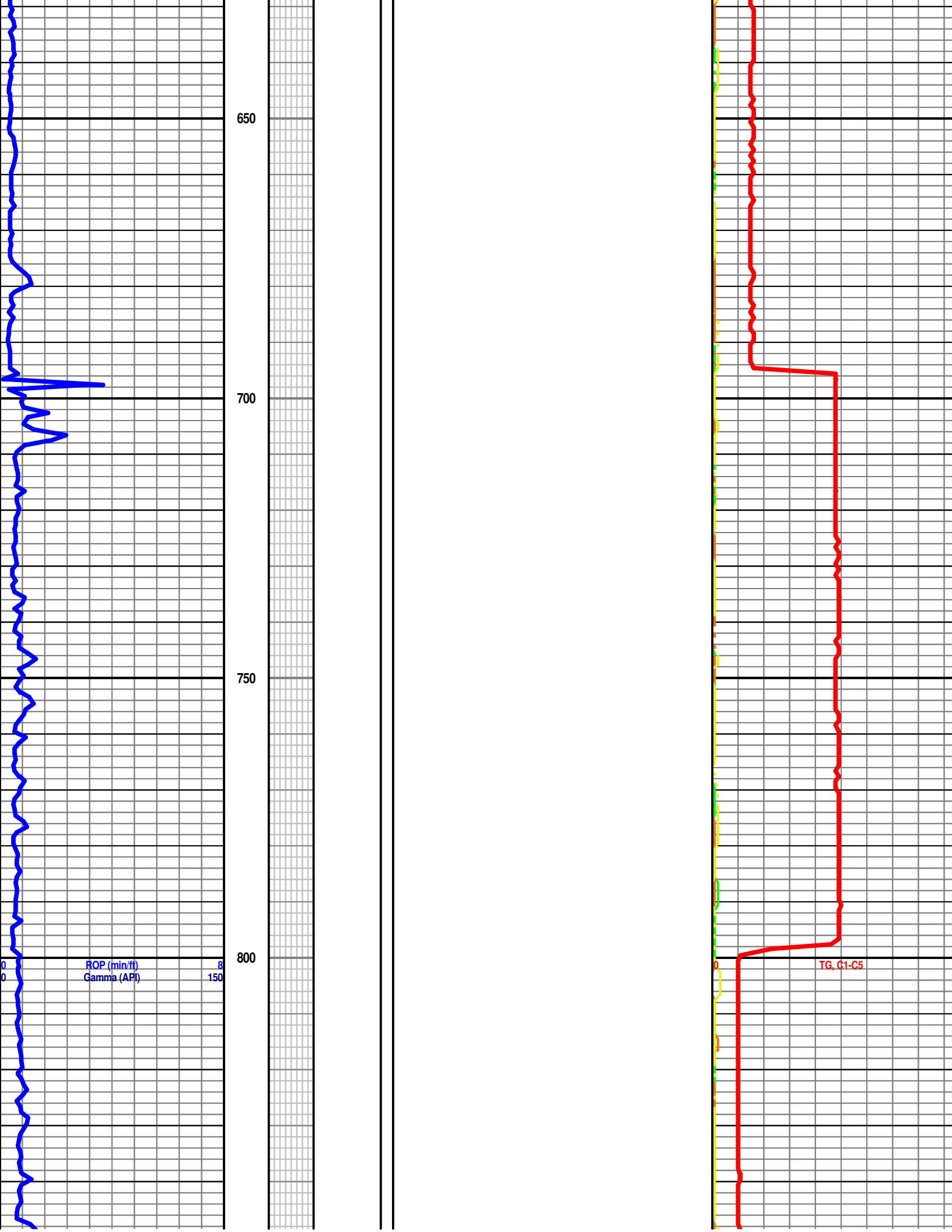
Should you have any questions or need additional information regarding subject well, please contact our office.

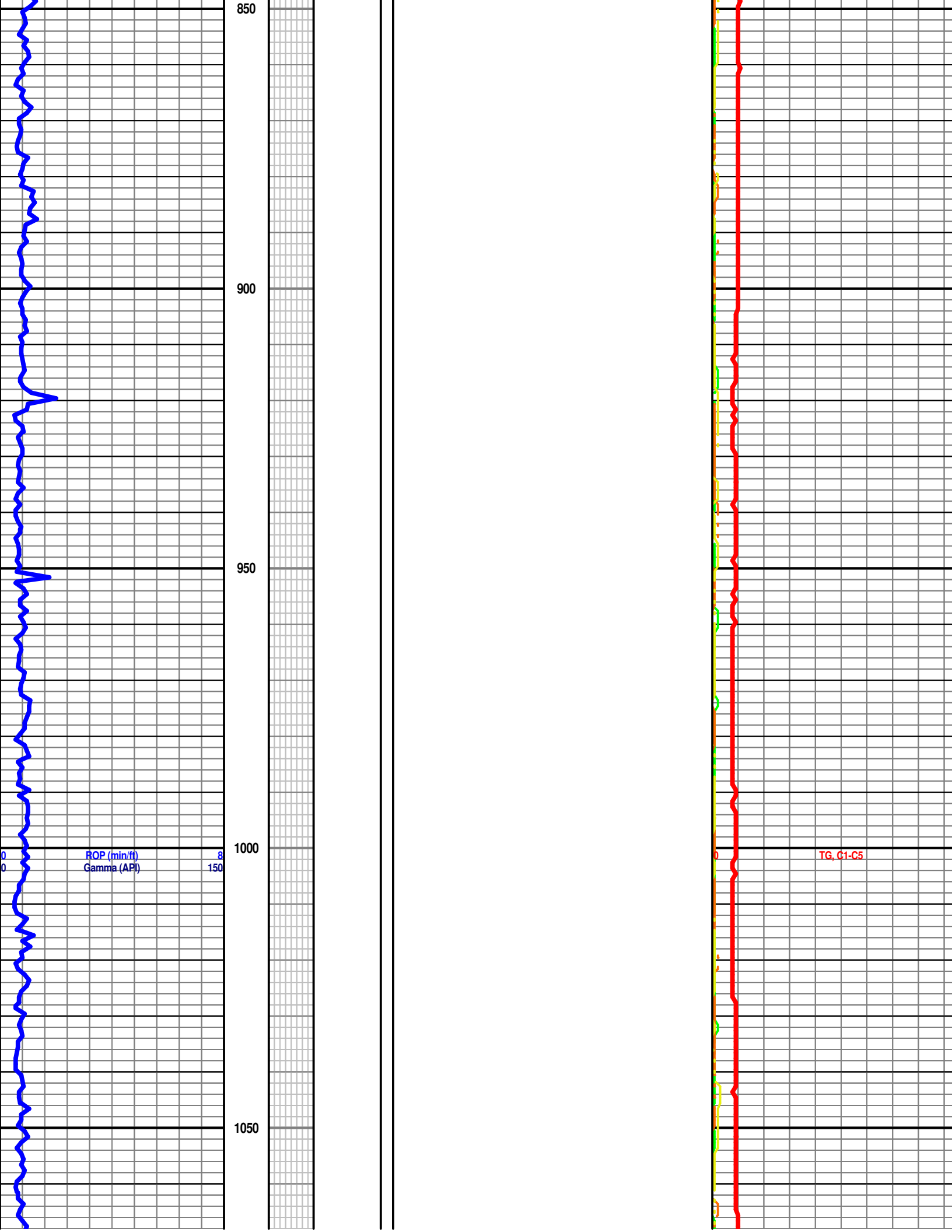
Respectfully,
CYNDE WOLF

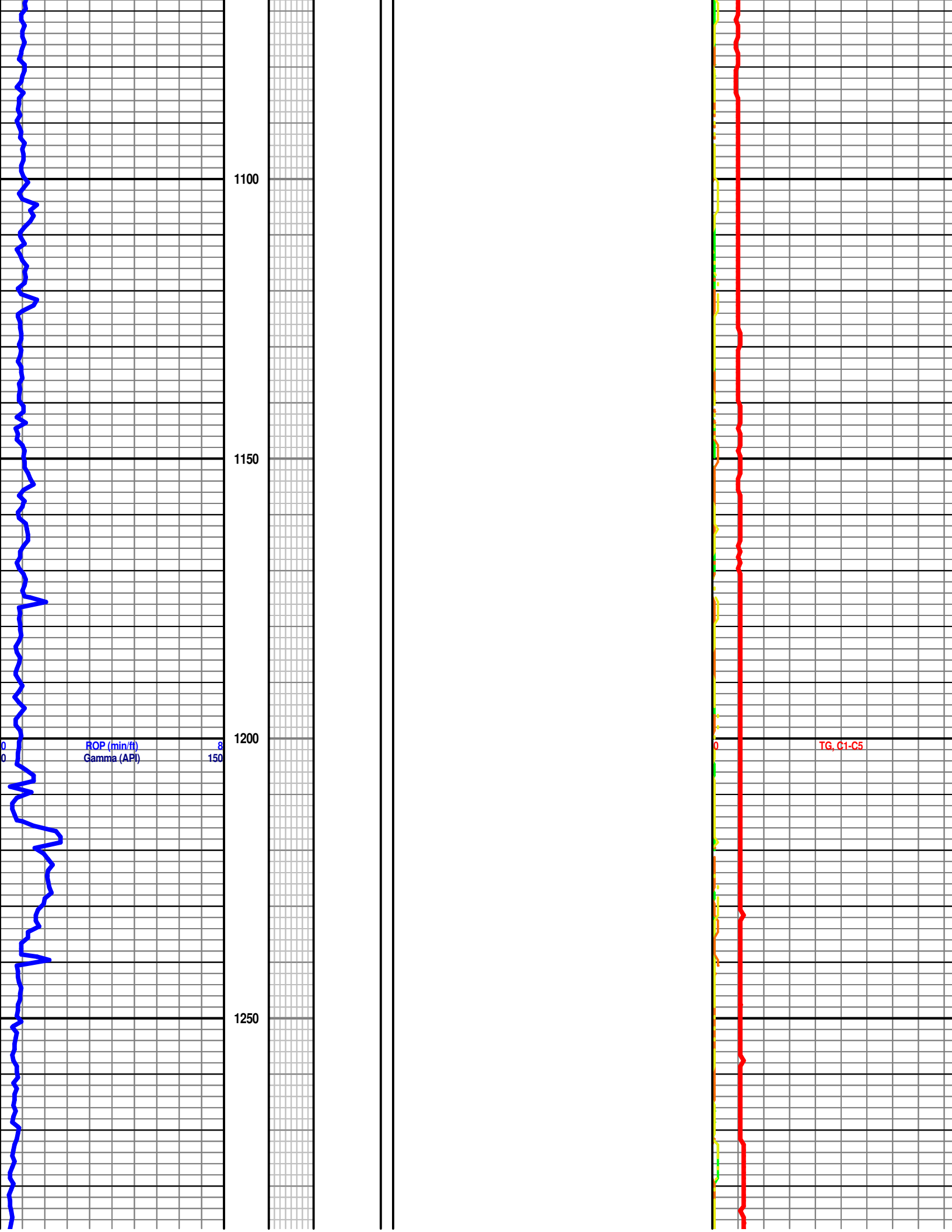

Curve Track 1
ROP (min/ft)
Gamma (API)
Depth
Porosity
24%
18%
12%
6%
Lithology
Oil Shows
Geological Descriptions
TG, C1-C5
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C5 (units)
ROP (min/ft)
Gamma (API)
0
8
0
150
50
100
150
TG, C1-C5
0
GRC #3-11(NW)
510' FNL & 210' FWL SECTION 11-31S-22W
CLARK COUNTY, KANSAS
KB 2211'
API#15-025-21516-0000
STERLING DRILLING

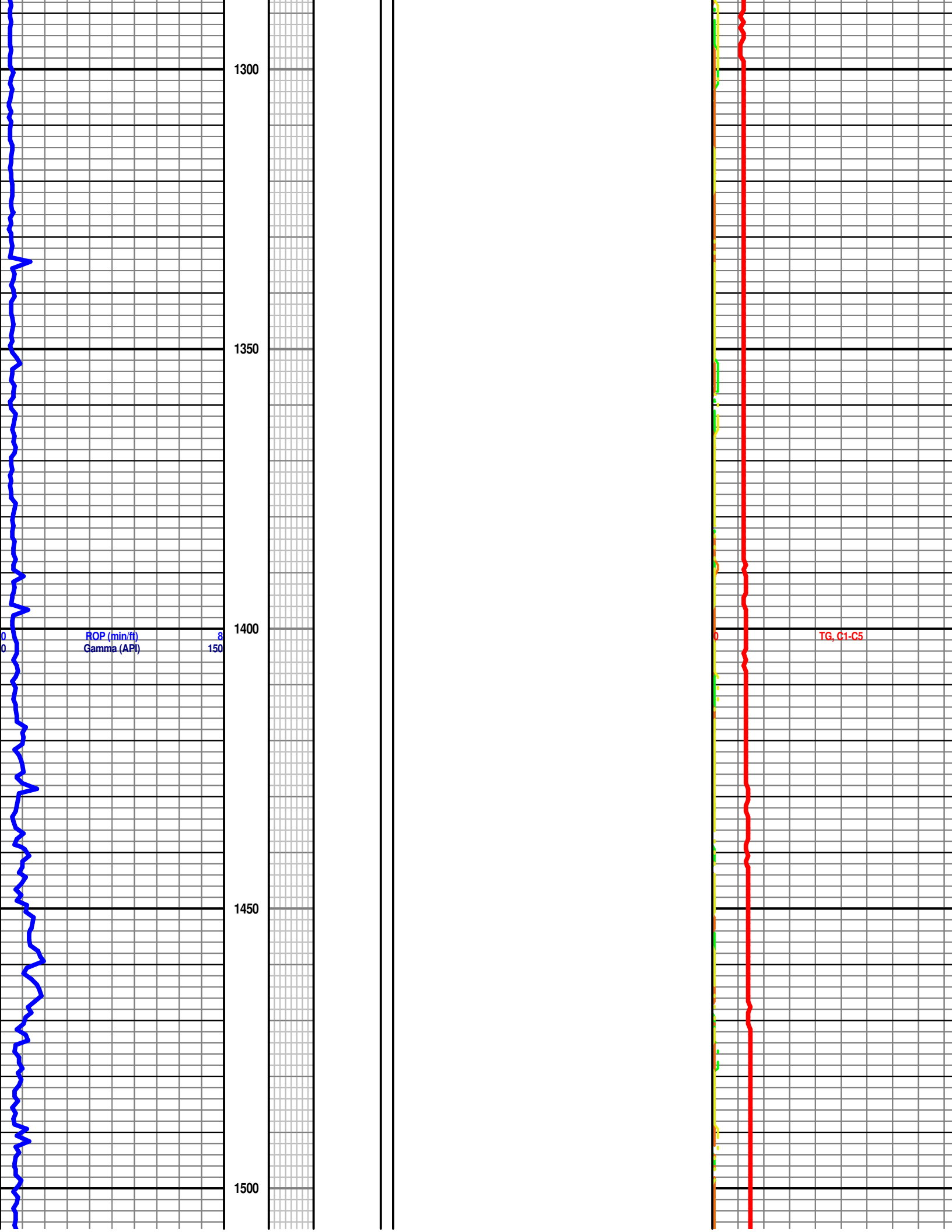

0
0
ROP (min/ft)
Gamma (API)
8
150
200
250
300
350
400
0
TG, C1-C5
0
0
ROP (min/ft)
Gamma (API)
8
150
0
TG, C1-C5

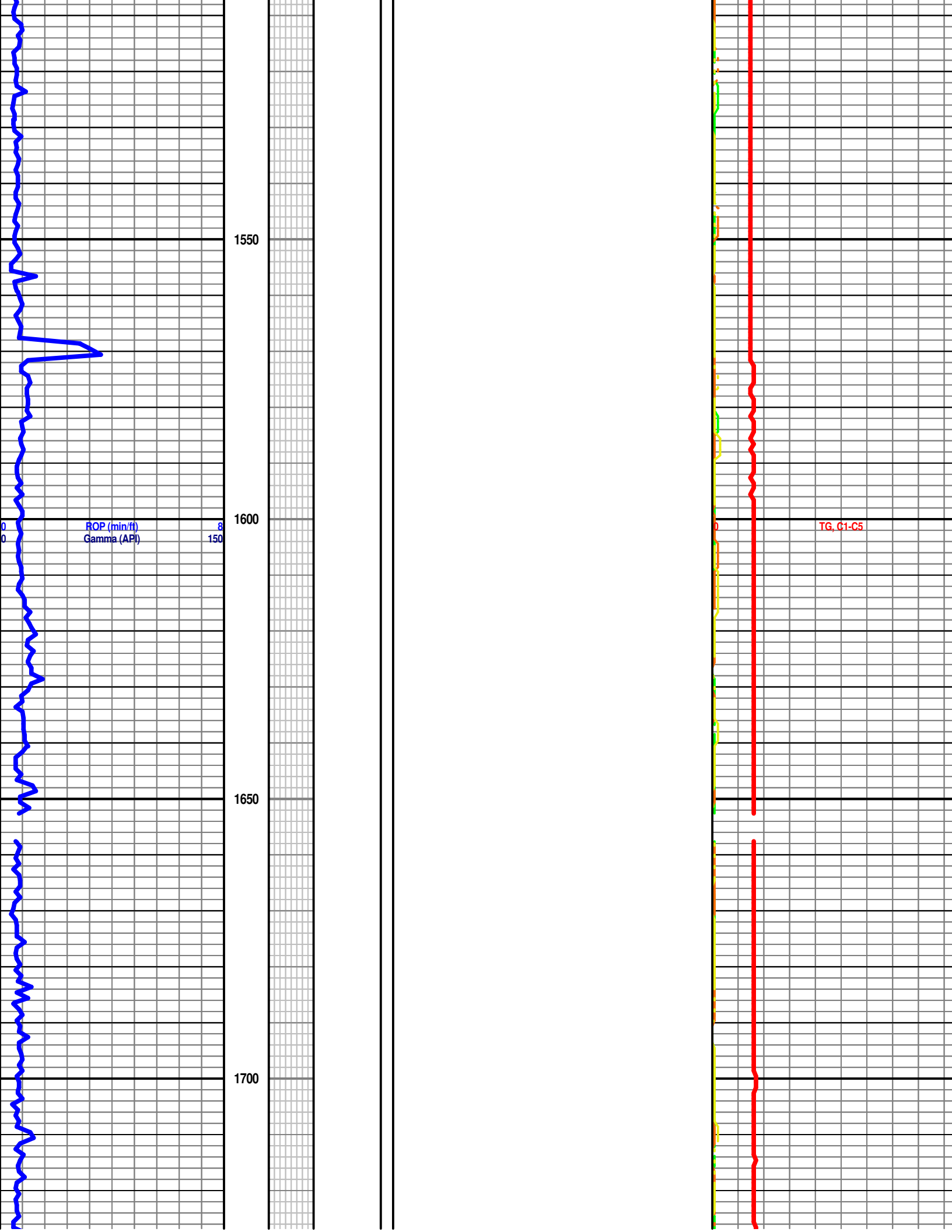

450
500
550
600
0
ROP (min/ft)
8
0
Gamma (API)
150
0
TG, C1-C5

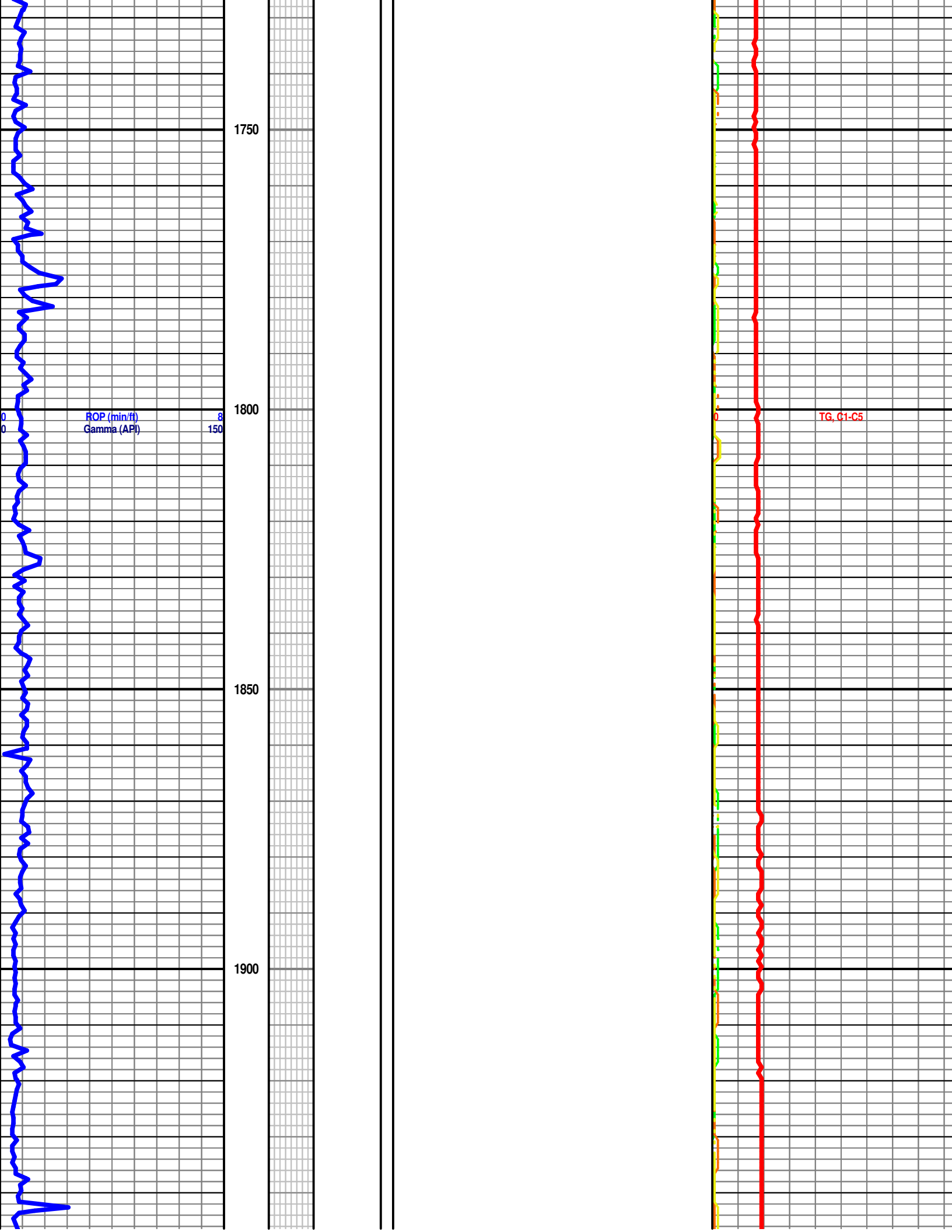

650
700
750
800
0
ROP (min/ft)
8
0
Gamma (API)
150
0
TG, C1-C5

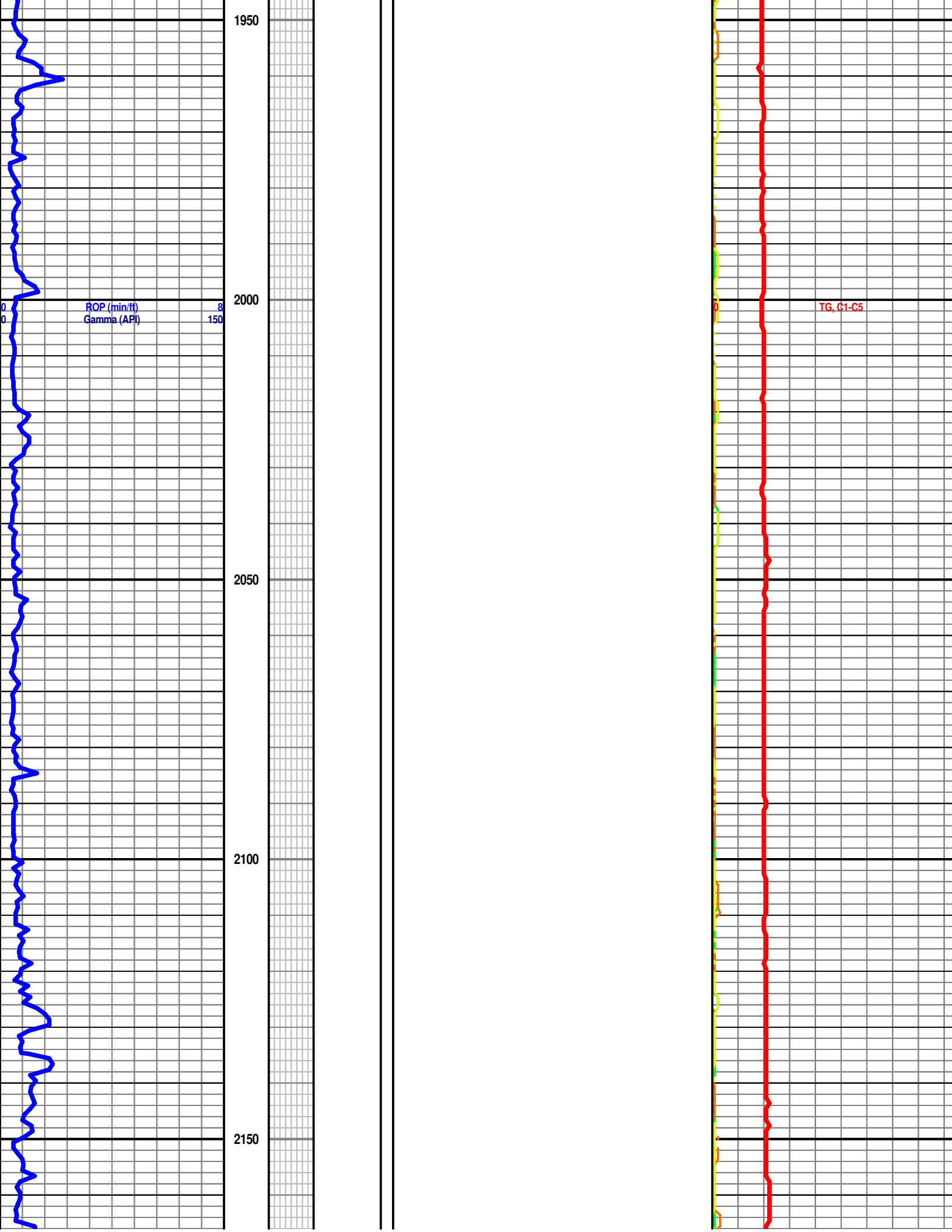

850
900
950
1000
1050
0
ROP (min/ft)
8
0
Gamma (API)
150
0
TG, C1-C5

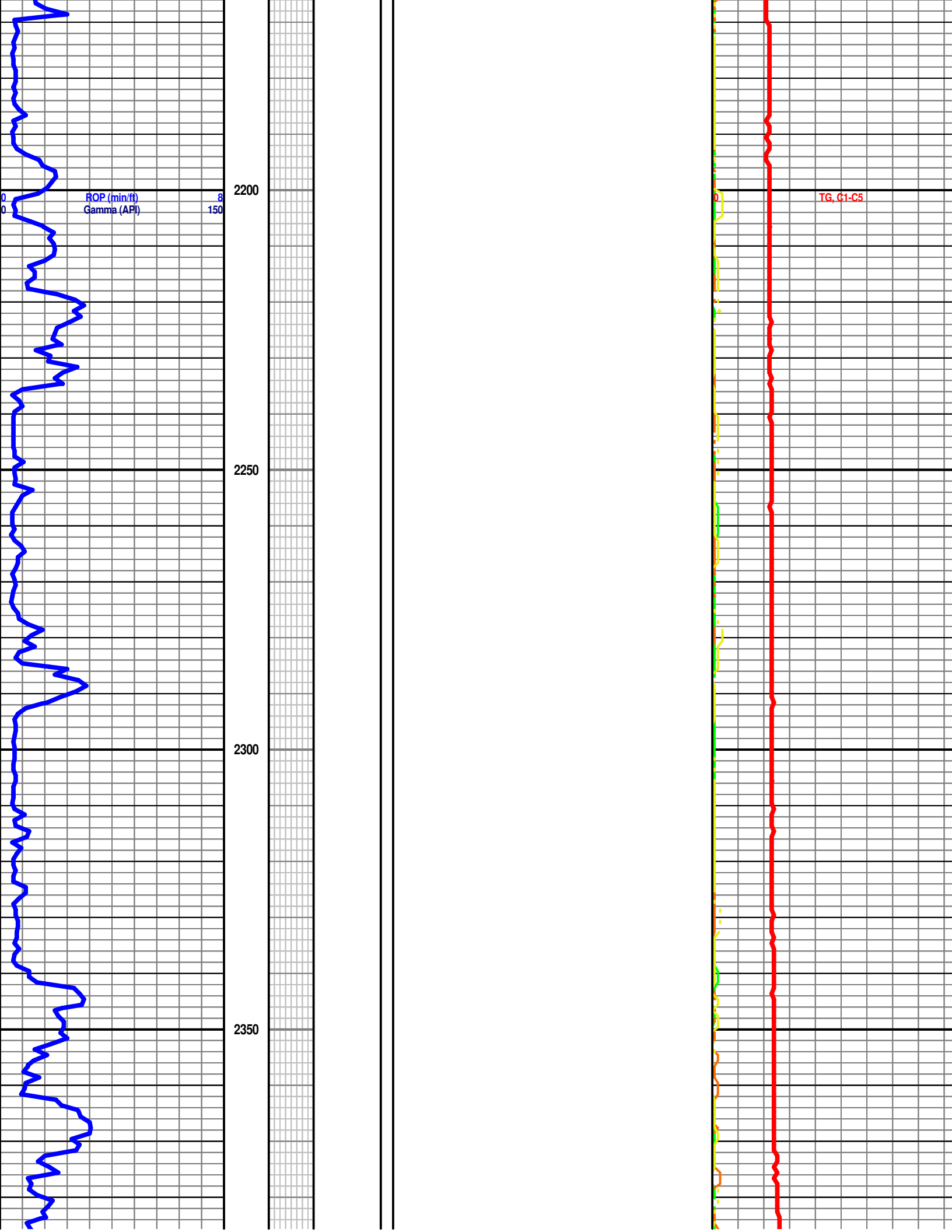

1100
1150
1200
1250
0
ROP (min/ft)
8
0
Gamma (API)
150
0
TG, C1-C5

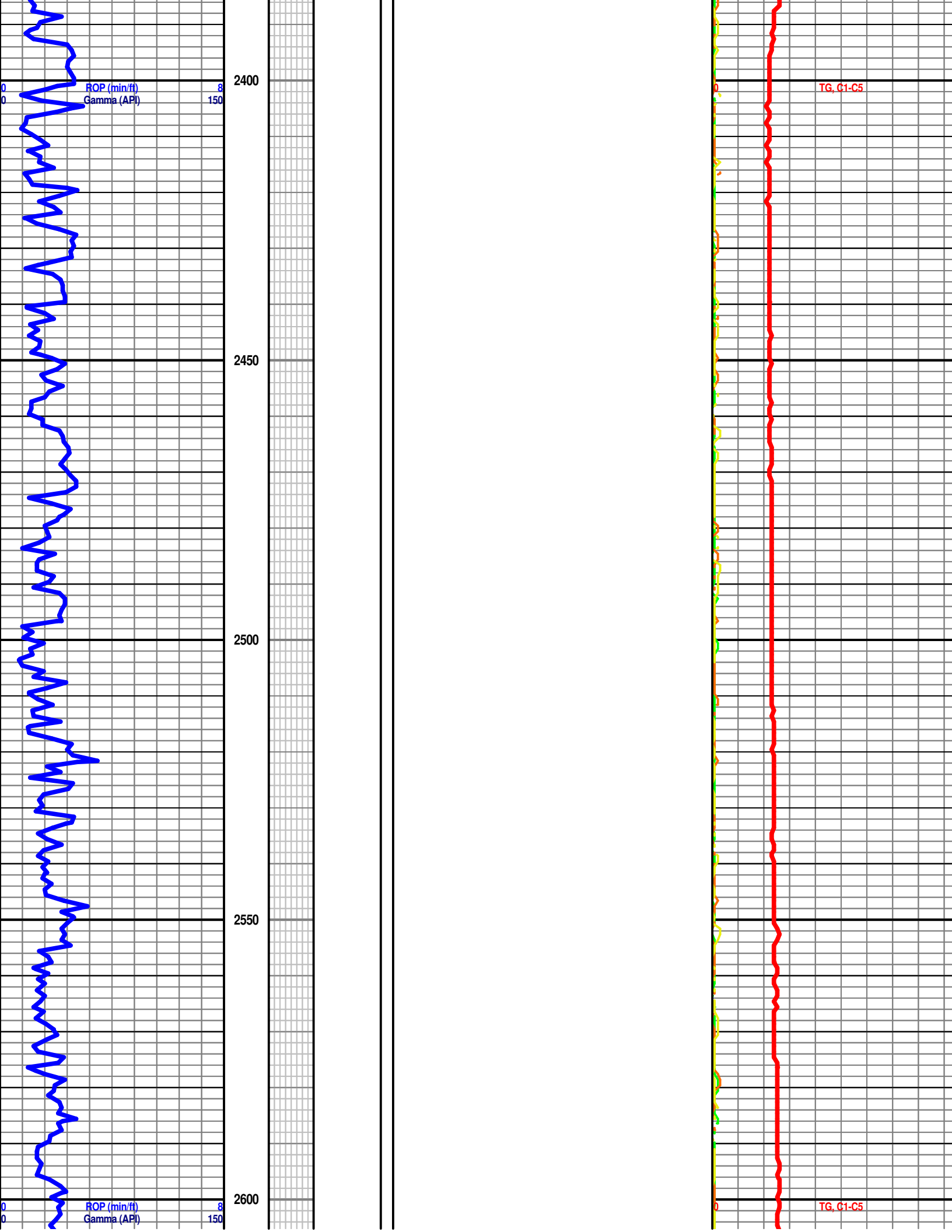

1300
1350
1400
1450
1500
0
0
ROP (min/ft)
Gamma (API)
8
150
0
TG, C1-C5

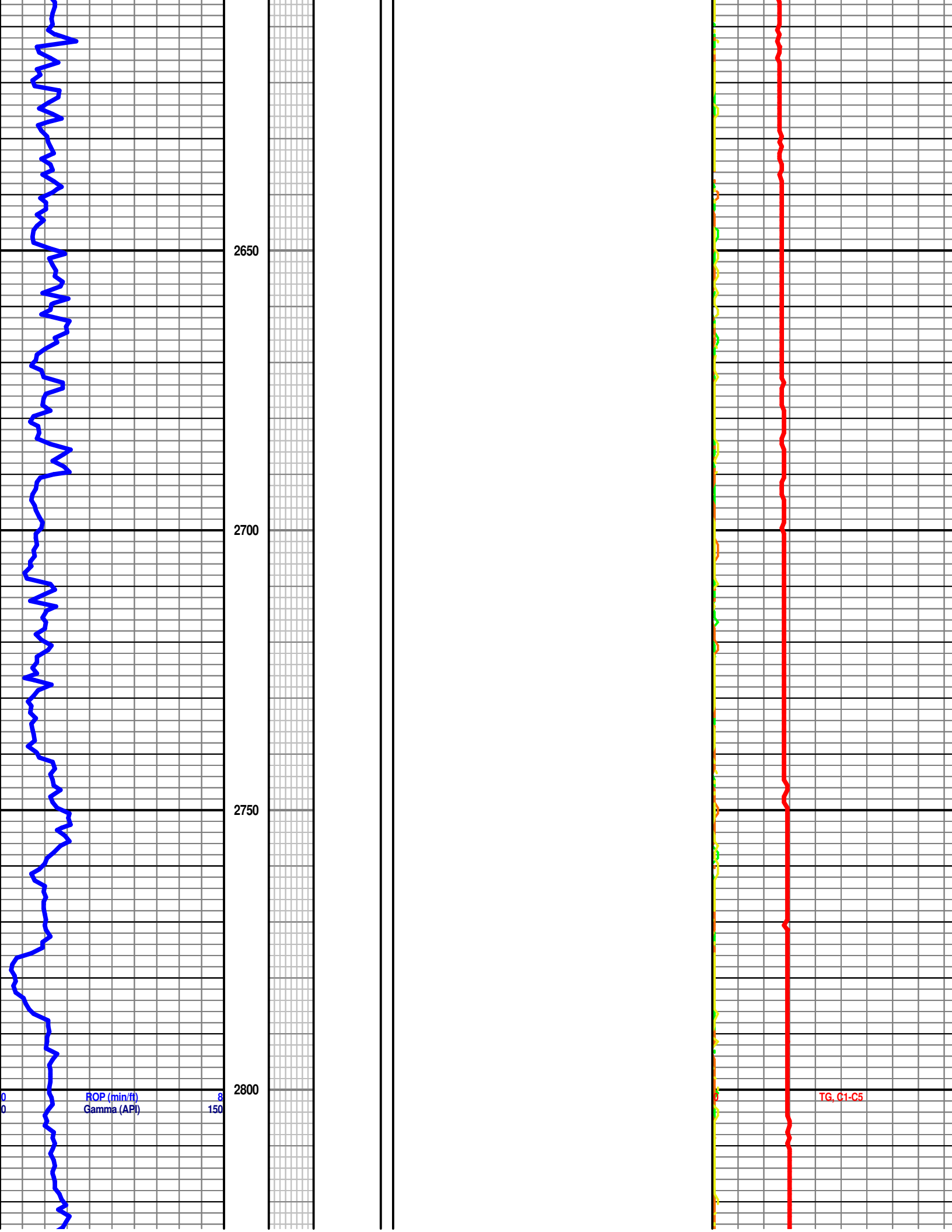

1550
1600
1650
1700
0
ROP (min/ft)
8
0
Gamma (API)
150
0
TG, C1-C5

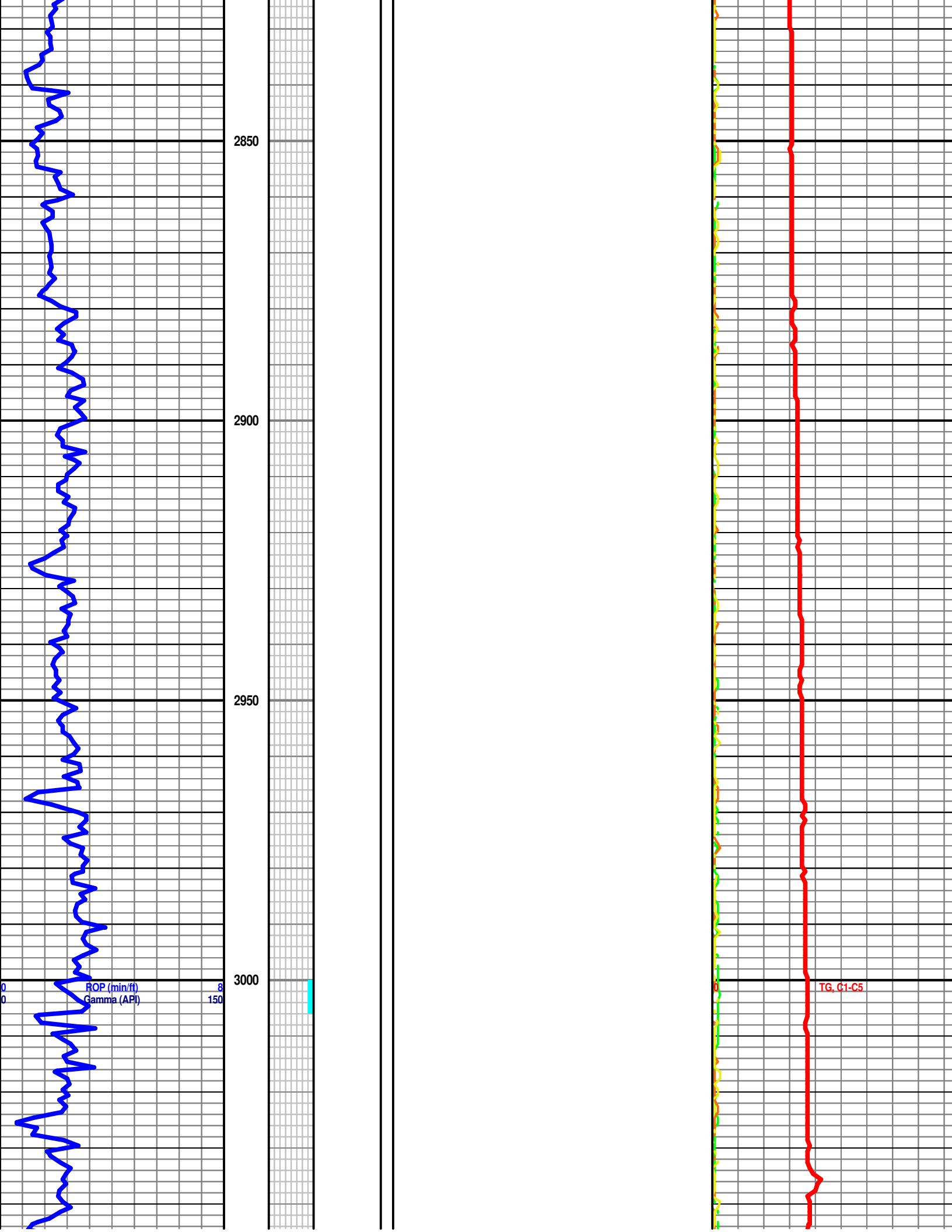

1750
1800
1850
1900
0
ROP (min/ft)
8
0
Gamma (API)
150
0
TG, C1-C5

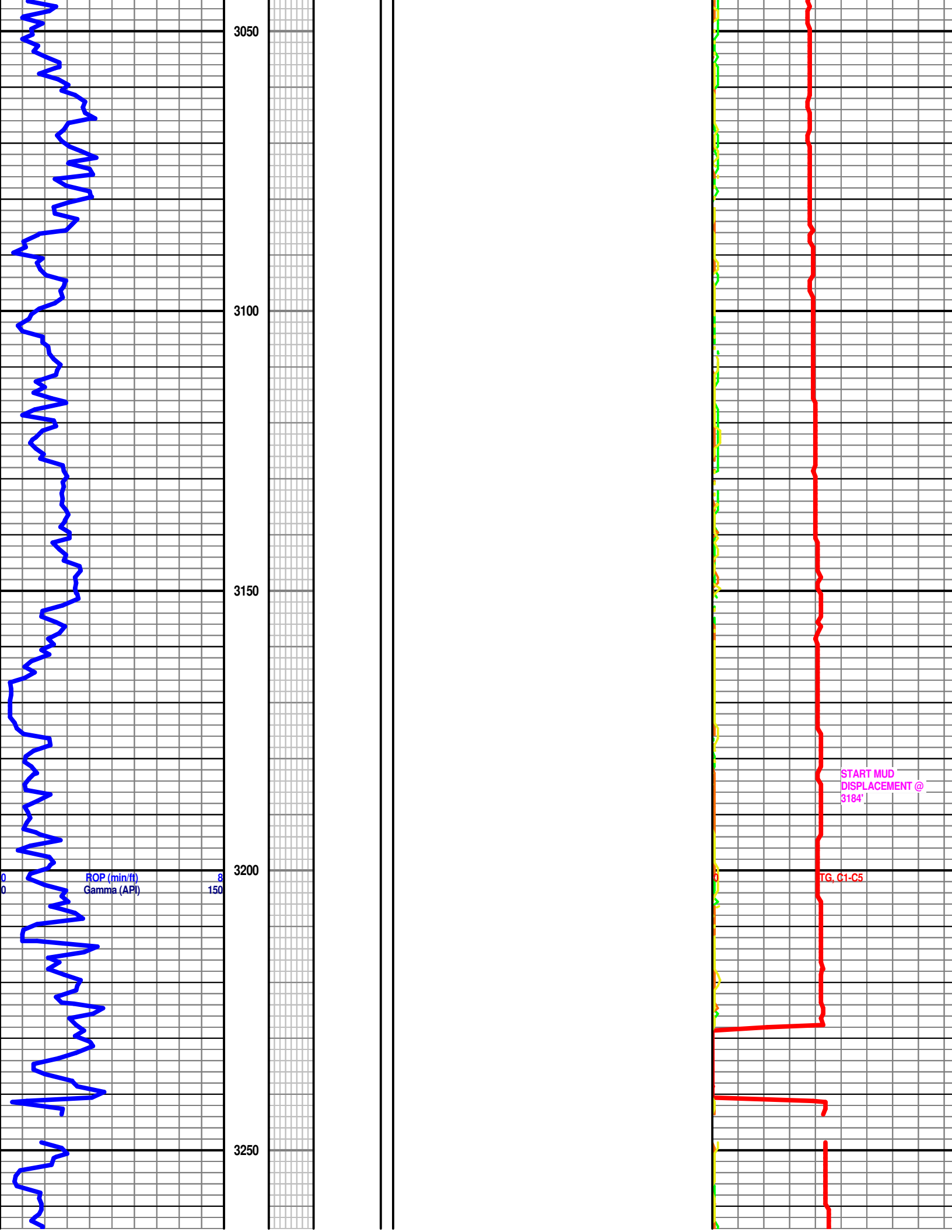

1950
2000
2050
2100
2150
ROP (min/ft)
Gamma (API)
150
TG, C1-C5

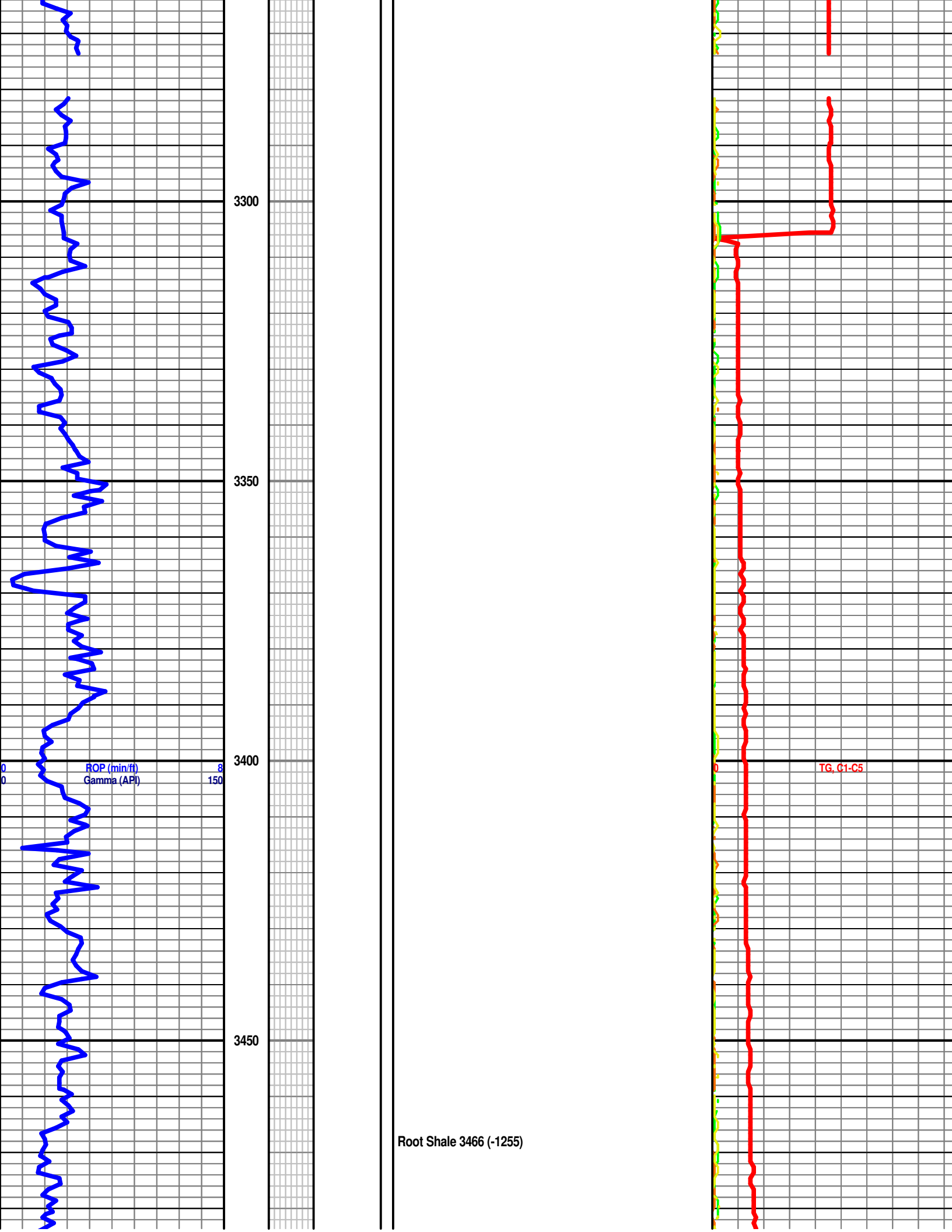

0
0
ROP (min/ft)
Gamma (API)
8
150
2200
2250
2300
2350
0
TG, C1-C5

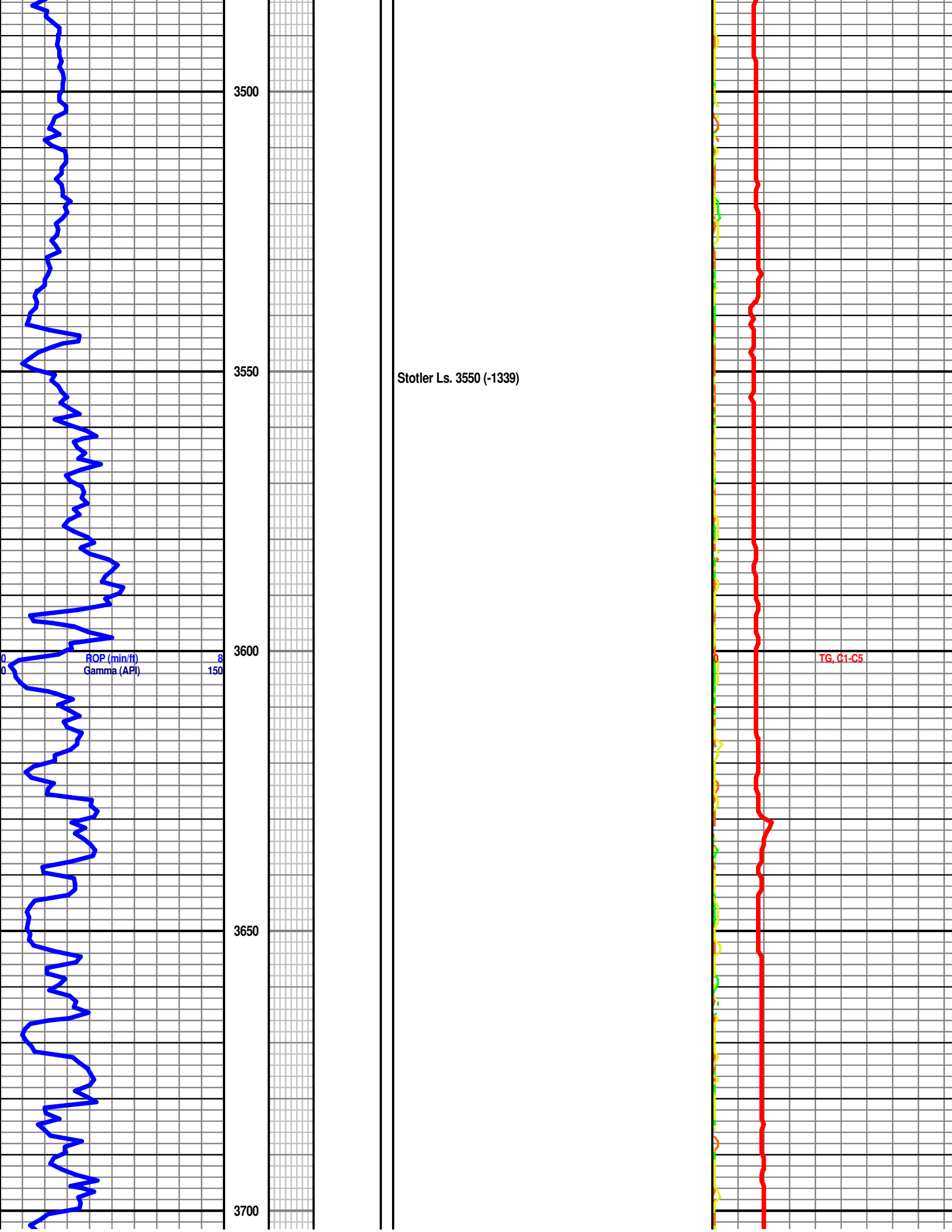

0
ROP (min/ft)
8
0
Gamma (API)
150
2400
2450
2500
2550
2600
0
TG, C1-C5
0
ROP (min/ft)
8
0
Gamma (API)
150
0
TG, C1-C5

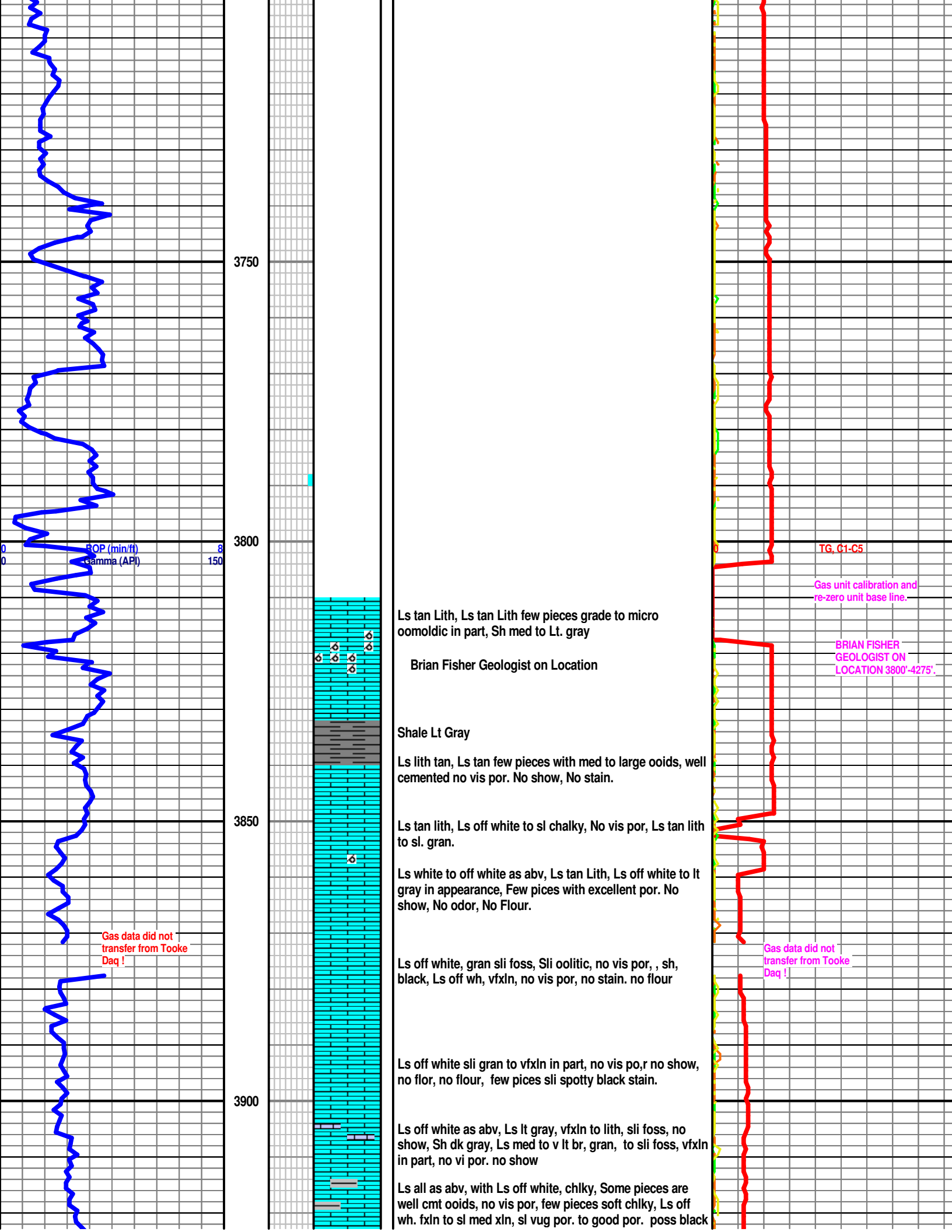

2650
2700
2750
2800
0
ROP (min/ft)
8
0
Gamma (API)
150
0
TG, C1-C5

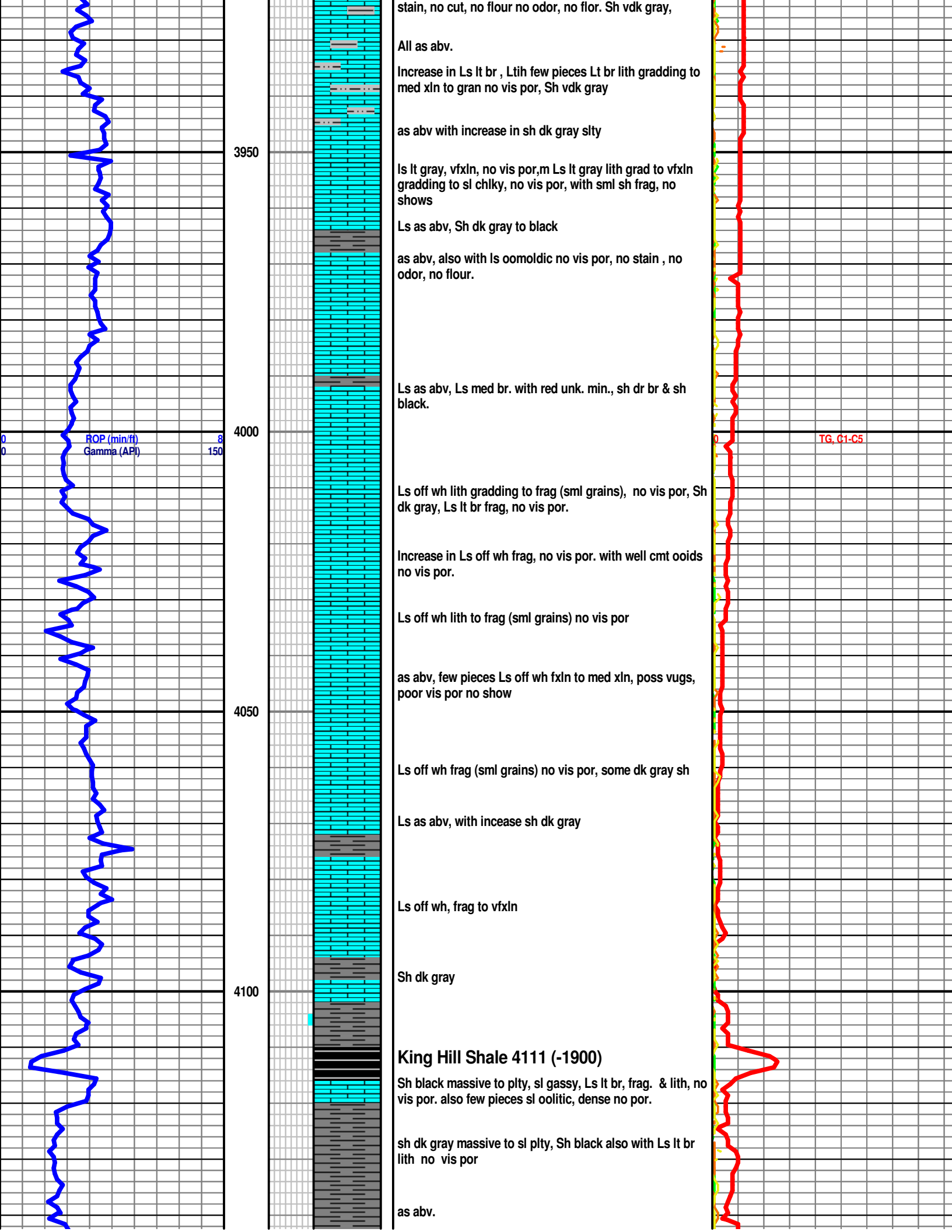

2850
2900
2950
3000
0
ROP (min/ft)
8
0
Gamma (API)
150
0
TG, C1-C5


3050
3100
3150
3200
3250
ROP (min/ft)
Gamma (API)
TG, C1-C5
START MUD
DISPLACEMENT @
3184'


3300
3350
3400
3450
0
ROP (min/ft)
8
0
Gamma (API)
150
0
TG, C1-C5
Root Shale 3466 (-1255)


3500
3550
3600
3650
3700
Stotler Ls. 3550 (-1339)
0
ROP (min/ft)
8
0
Gamma (API)
150
0
TG, C1-C5


3750
3800
3850
3900
0
ROP (min/ft)
8
0
Gamma (API)
150
Gas data did not transfer from Tooke Daq !
0
TG, C1-C5
Gas unit calibration and re-zero unit base line.
BRIAN FISHER GEOLOGIST ON LOCATION 3800'-4275'.
Gas data did not transfer from Tooke Daq !
Ls tan Lith, Ls tan Lith few pieces grade to micro oomoldic in part, Sh med to Lt. gray
Brian Fisher Geologist on Location
Shale Lt Gray
Ls lith tan, Ls tan few pieces with med to large ooids, well cemented no vis por. No show, No stain.
Ls tan lith, Ls off white to sl chalky, No vis por, Ls tan lith to sl. gran.
Ls white to off white as abv, Ls tan Lith, Ls off white to lt gray in appearance, Few pices with excellent por. No show, No odor, No Flour.
Ls off white, gran sli foss, Sli oolitic, no vis por, , sh, black, Ls off wh, vfxln, no vis por, no stain. no flour
Ls off white sli gran to vfxln in part, no vis po,r no show, no flor, no flour, few pices sli spotty black stain.
Ls off white as abv, Ls lt gray, vfxln to lith, sli foss, no show, Sh dk gray, Ls med to v lt br, gran, to sli foss, vfxln in part, no vi por. no show
Ls all as abv, with Ls off white, chlky, Some pieces are well cmt ooids, no vis por, few pieces soft chlky, Ls off wh. fxln to sl med xln, sl vug por. to good por. poss black



stain, no cut, no flour no odor, no flor. Sh vdk gray,

All as abv.

Increase in Ls lt br , Ltih few pieces Lt br lith gradding to med xln to gran no vis por, Sh vdk gray

as abv with increase in sh dk gray slty

Is lt gray, vfxln, no vis por,m Ls lt gray lith grad to vfxln gradding to sl chlky, no vis por, with sml sh frag, no shows

Ls as abv, Sh dk gray to black

as abv, also with ls oomoldic no vis por, no stain , no odor, no flour.

Ls as abv, Ls med br. with red unk. min., sh dr br & sh black.

Ls off wh lith gradding to frag (sml grains), no vis por, Sh dk gray, Ls lt br frag, no vis por.

Increase in Ls off wh frag, no vis por. with well cmt ooids no vis por.

Ls off wh lith to frag (sml grains) no vis por

as abv, few pieces Ls off wh fxln to med xln, poss vugs, poor vis por no show

Ls off wh frag (sml grains) no vis por, some dk gray sh

Ls as abv, with incease sh dk gray

Ls off wh, frag to vfxln

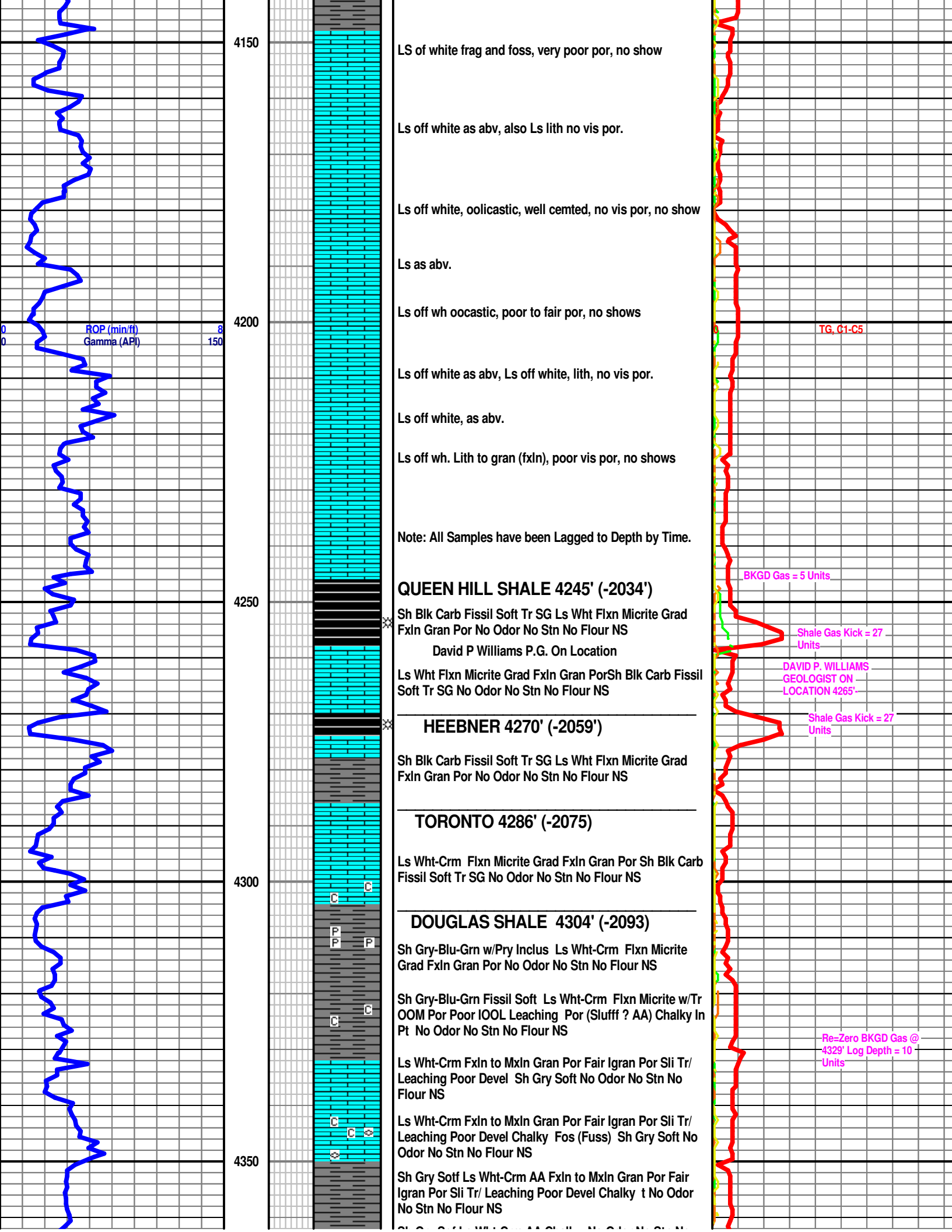
Sh dk gray

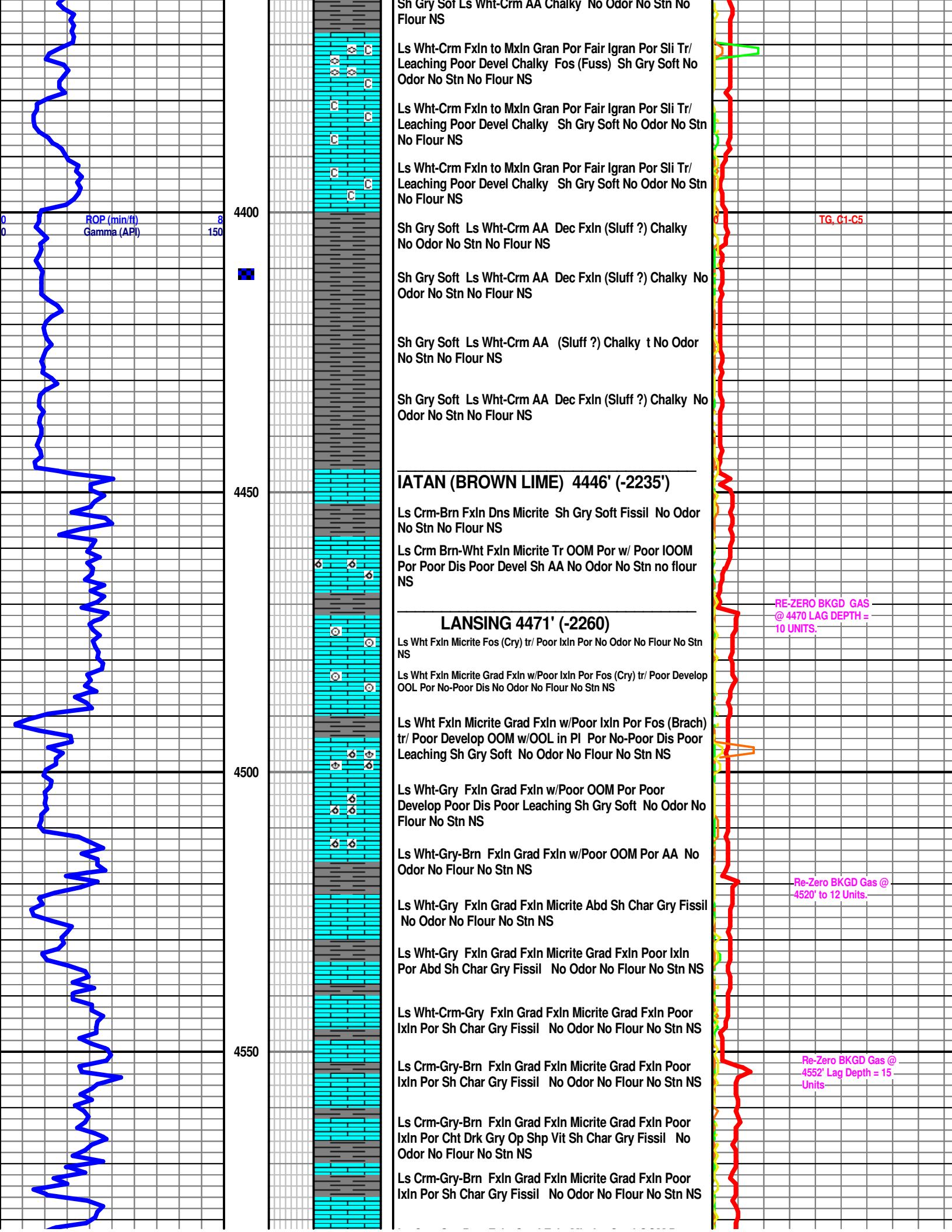
King Hill Shale 4111 (-1900)

Sh black massive to plty, sl gassy, Ls lt br, frag. & lith, no vis por. also few pieces sl oolitic, dense no por.

sh dk gray massive to sl plty, Sh black also with Ls lt br lith no vis por

as abv.


4150
4200
4250
4300
4350
0
ROP (min/ft)
8
0
Gamma (API)
150
0
TG, C1-C5
LS of white frag and foss, very poor por, no show
Ls off white as abv, also Ls lith no vis por.
Ls off white, oolicastic, well cemted, no vis por, no show
Ls as abv.
Ls off wh oocastic, poor to fair por, no shows
Ls off white as abv, Ls off white, lith, no vis por.
Ls off white, as abv.
Ls off wh. Lith to gran (fxln), poor vis por, no shows
Note: All Samples have been Lagged to Depth by Time.
QUEEN HILL SHALE 4245' (-2034')
Sh Blk Carb Fissil Soft Tr SG Ls Wht Flxn Micrite Grad Fxln Gran Por No Odor No Stn No Flour NS
David P Williams P.G. On Location
Ls Wht Flxn Micrite Grad Fxln Gran PorSh Blk Carb Fissil Soft Tr SG No Odor No Stn No Flour NS
HEEBNER 4270' (-2059')
Sh Blk Carb Fissil Soft Tr SG Ls Wht Flxn Micrite Grad Fxln Gran Por No Odor No Stn No Flour NS
TORONTO 4286' (-2075)
Ls Wht-Crm Flxn Micrite Grad Fxln Gran Por Sh Blk Carb Fissil Soft Tr SG No Odor No Stn No Flour NS
DOUGLAS SHALE 4304' (-2093)
Sh Gry-Blu-Grn w/Pry Inclus Ls Wht-Crm Flxn Micrite Grad Fxln Gran Por No Odor No Stn No Flour NS
Sh Gry-Blu-Grn Fissil Soft Ls Wht-Crm Flxn Micrite w/Tr OOM Por Poor IOOL Leaching Por (Slufff ? AA) Chalky In Pt No Odor No Stn No Flour NS
Ls Wht-Crm Fxln to Mxln Gran Por Fair Igran Por Sli Tr/ Leaching Poor Devel Sh Gry Soft No Odor No Stn No Flour NS
Ls Wht-Crm Fxln to Mxln Gran Por Fair Igran Por Sli Tr/ Leaching Poor Devel Chalky Fos (Fuss) Sh Gry Soft No Odor No Stn No Flour NS
Sh Gry Sotf Ls Wht-Crm AA Fxln to Mxln Gran Por Fair Igran Por Sli Tr/ Leaching Poor Devel Chalky t No Odor No Stn No Flour NS
BKGD Gas = 5 Units
Shale Gas Kick = 27 Units
DAVID P. WILLIAMS GEOLOGIST ON LOCATION 4265'
Shale Gas Kick = 27 Units
Re=Zero BKGD Gas @ 4329' Log Depth = 10 Units



Sh Gry Sof Ls Wht-Crm AA Chalky No Odor No Stn No Flour NS

Ls Wht-Crm Fxln to Mxln Gran Por Fair Igran Por Sli Tr/ Leaching Poor Devel Chalky Fos (Fuss) Sh Gry Soft No Odor No Stn No Flour NS

Ls Wht-Crm Fxln to Mxln Gran Por Fair Igran Por Sli Tr/ Leaching Poor Devel Chalky Sh Gry Soft No Odor No Stn No Flour NS

Ls Wht-Crm Fxln to Mxln Gran Por Fair Igran Por Sli Tr/ Leaching Poor Devel Chalky Sh Gry Soft No Odor No Stn No Flour NS

Sh Gry Soft Ls Wht-Crm AA Dec Fxln (Sluff ?) Chalky No Odor No Stn No Flour NS

Sh Gry Soft Ls Wht-Crm AA Dec Fxln (Sluff ?) Chalky No Odor No Stn No Flour NS

Sh Gry Soft Ls Wht-Crm AA (Sluff ?) Chalky t No Odor No Stn No Flour NS

Sh Gry Soft Ls Wht-Crm AA Dec Fxln (Sluff ?) Chalky No Odor No Stn No Flour NS

IATAN (BROWN LIME) 4446' (-2235')

Ls Crm-Brn Fxln Dns Micrite Sh Gry Soft Fissil No Odor No Stn No Flour NS

Ls Crm Brn-Wht Fxln Micrite Tr OOM Por w/ Poor IOOM Por Poor Dis Poor Devel Sh AA No Odor No Stn no flour NS

LANSING 4471' (-2260)

Ls Wht Fxln Micrite Fos (Cry) tr/ Poor Ixln Por No Odor No Flour No Stn NS

Ls Wht Fxln Micrite Grad Fxln w/Poor Ixln Por Fos (Cry) tr/ Poor Develop OOL Por No-Poor Dis No Odor No Flour No Stn NS

Ls Wht Fxln Micrite Grad Fxln w/Poor Ixln Por Fos (Brach) tr/ Poor Develop OOM w/OOL in Pl Por No-Poor Dis Poor Leaching Sh Gry Soft No Odor No Flour No Stn NS

Ls Wht-Gry Fxln Grad Fxln w/Poor OOM Por Poor Develop Poor Dis Poor Leaching Sh Gry Soft No Odor No Flour No Stn NS

Ls Wht-Gry-Brn Fxln Grad Fxln w/Poor OOM Por AA No Odor No Flour No Stn NS

Ls Wht-Gry Fxln Grad Fxln Micrite Abd Sh Char Gry Fissil No Odor No Flour No Stn NS

Ls Wht-Gry Fxln Grad Fxln Micrite Grad Fxln Poor Ixln Por Abd Sh Char Gry Fissil No Odor No Flour No Stn NS

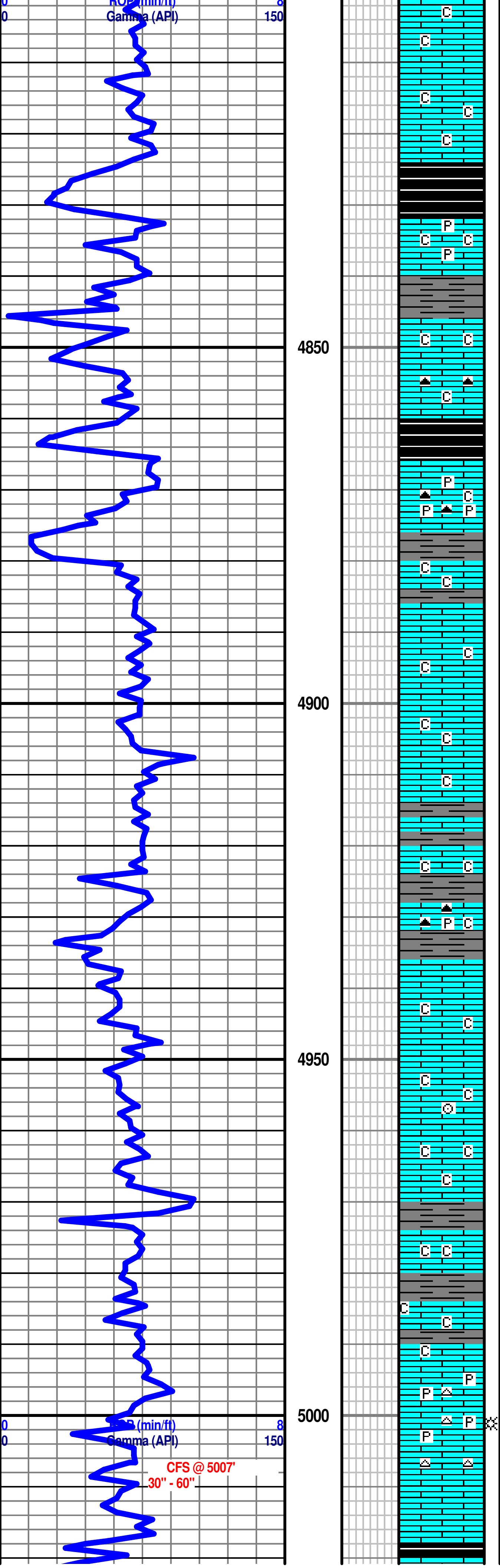
Ls Wht-Crm-Gry Fxln Grad Fxln Micrite Grad Fxln Poor Ixln Por Sh Char Gry Fissil No Odor No Flour No Stn NS

Ls Crm-Gry-Brn Fxln Grad Fxln Micrite Grad Fxln Poor Ixln Por Sh Char Gry Fissil No Odor No Flour No Stn NS

Ls Crm-Gry-Brn Fxln Grad Fxln Micrite Grad Fxln Poor Ixln Por Cht Drk Gry Op Shp Vit Sh Char Gry Fissil No Odor No Flour No Stn NS

Ls Crm-Gry-Brn Fxln Grad Fxln Micrite Grad Fxln Poor Ixln Por Sh Char Gry Fissil No Odor No Flour No Stn NS


0
ROP (min/ft)
8
0
Gamma (API)
150
4600
4650
4700
4750
4800
Ls Crm-Gry-Brn Fxln Grad Fxln Micrite Grad OOM Por Poor IOOM Por Poor Devel Poor Dos Sh Char Gry-Blk Fissil No Odor No Flour No Stn NS
Ls Wht-Crm-Gry Fxln Grad Fxln Micrite Chalky Sh Char Gry-Blk Fissil No Odor No Flour No Stn NS
Ls Crm Fxln Grad Fxln Micrite Chalky Sh Char Gry-Blk Fissil No Odor No Flour No Stn NS
Ls Crm Fxln to Microxln Poor Ixln Por Tr Pyr Mass Sh Char-Gry Fissil No Odor No Stn No Flour NS
Ls Wht-Crm-Gry Fxln Grad Fxln Micrite Chalky Sh Char Gry-Blk Fissil No Odor No Flour No Stn NS
Ls Wht-Gry Fxln Grad Fxln Micrite Chalky Fos (Bryoz) Sh Char Gry-Blk Fissil No Odor No Flour No Stn NS
Ls Wht-Crm-Gry Fxln Grad Fxln Micrite Chalky Sh Char Gry-Blk Fissil No Odor No Flour No Stn NS
Ls Wht-Crm-Gry Fxln Grad Fxln Micrite Chalky Sh Char Gry-Blk Fissil No Odor No Flour No Stn NS
Sh Blk Carb Fissil Carb Grad Gry-Char Ls Wht-Crm-Gry Fxln Grad Fxln Micrite Chalky No Odor No Flour No Stn NS
Ls Wht-Crm-Gry Fxln Grad Fxln Micrite Chalky Sh Char Gry-Blk Carb Fissil No Odor No Flour No Stn NS
Ls Wht-Crm-Gry Fxln Grad Fxln Micrite Cht Drk Gry Op Vit Fos (Spic) Tr Sh Char Gry Fissil No Odor No Flour No Stn NS
Ls Wht-Crm-Gry Fxln Grad Fxln Micrite Cht Lt Gry Op Vit Chalky Sh Char Gry Abd Fissil No Odor No Flour No Stn NS
Ls Wht-Crm-Gry Fxln Grad Fxln Micrite Cht Lt Gry Op Vit Chalky Sh Char Gry Fissil No Odor No Flour No Stn NS
Ls Wht-Crm-Gry Fxln Grad Fxln Micrite Cht Lt Gry Op Vit Chalky Sh Char Gry Dec Fissil No Odor No Flour No Stn NS
Ls Wht-Crm-Gry Fxln Grad Fxln Micrite Cht Lt Gry Op Vit Chalky Sh Char Gry Abd Fissil No Odor No Flour No Stn NS
Ls Wht-Crm-Gry Fxln Grad Fxln Micrite Cht Lt Gry Op Vit Chalky Tr Sh Gry Fissil No Odor No Flour No Stn NS
Sh Char Gry Tr Blu-Grn Abd Fissil Ls AA Tr Chalky No Odor No Flour No Stn NS
Ls Wht-Crm-Gry Fxln Grad Fxln Micrite Grad Few Pcs Poor OOM Por Poor Dis Poor Develop Fos (Bryoz) Chalky Sh Gry Fissil No Odor No Flour No Stn NS
Sh Char Gry Abd Fissil Ls AA Tr OOM Por AA Tr Chalky No Odor No Flour No Stn NS
Sh Char Gry Tr Blu-Grn Abd Fissil Ls AA Tr OOM Por Grad Fxln Poor Ixln Por Tr Chalky No Odor No Flour No Stn NS
Ls Wht-Crm-Gry Fxln Grad Fxln Micrite Tr Fxln Poor Ixln Por Chalky Sh Gry Fissil No Odor No Flour No Stn NS
Ls Wht-Crm-Brn Fxln Grad Fxln Micrite Tr Fxln Poor Ixln Por Fos (Bry) Chalky Sh Gry Fissil No Odor No Flour No Stn NS
0
TG, C1-C5
BKGD GAS = 6 UNITS
SHALE GAS KICKC = 25 UNITS @ 4650'
RE-ZERO BKGD GAS @ 4670' LAG DEPTH = 15 UNITS.
6:40 AM 9-24-10 @ 4690'
MUD CK @ 4712': VIS 47; WT. 9.15#; FILT. 13.6; LCM= 0#
Re-zero BKGD Gas @ 4795' Lag Depth = 15 Units.
TG, C1-C5



Ls Wht-Crm-Brn Fxln Grad Fxln Micrite Tr Fxln Poor Ixln Por Chalky Sh Char Gry Fissil No Odor No Flour No Stn NS

Ls Wht-Crm-Brn Fxln Grad Fxln Micrite Tr Fxln Poor Ixln Por Chalky Sh Char Gry Fissil No Odor No Flour No Stn NS

STARK SHALE 4824' (-2613')

Sh Blk Carb Fissil Carb Grad Gry-Char Ls AA Wht-Crm-Gry Fxln Grad Fxln Micrite Tr Pyr Mass Chalky No Odor No Flour No Stn NS

Sh Blk Carb AA Grad Char Gry Abd Fissil Ls AA Tr OOM Por AA Poor Dis Poor Develop Tr Chalky No Odor No Flour No Stn NS

Sh Blk Carb AA Grad Char Gry Abd Fissil Ls Fxln Poor Ixln Por Cht Gry Op Shp Vit Tr Chalky No Odor No Flour No Stn NS

HUSHPUCKNEY 4860' (-2649)

Sh Blk Carb AA Grad Char Gry Abd Fissil Ls Fxln Poor Ixln Por Cht Gry Op Shp Vit w/Tr Pyr Inclus Abd Chalk No Odor No Flour No Stn NS

Ls Wht-Crm Fxln Grad Fxln Micrite Tr Fxln Poor Ixln Por Chalky Sh Char Gry Blk Dec Fissil No Odor No Flour No Stn NS

Ls Wht-Crm Fxln Grad Fxln Micrite Tr Fxln Poor Ixln Por Chalky Sh Char Gry Blk Dec Fissil No Odor No Flour No Stn NS

Ls Wht-Crm Fxln Grad Fxln Micrite Tr Fxln Poor Ixln Por Chalky Sh Char Gry Blk Dec Fissil No Odor No Flour No Stn NS

Ls Wht-Crm Fxln Grad Fxln Micrite Tr Fxln Poor Ixln Por Chalky Sh Char Gry Blk Dec Fissil No Odor No Flour No Stn NS

BASE KANSAS CITY 4924' (-2713)

Sh Char Gry AA Fissil Ls Fxln Poor Ixln Por Cht Gry Op Shp Vit Tr Pyr Inclus Abd Chalk No Odor No Flour No Stn NS

MARMATON 4937' (-2726)

Ls Wht-Crm-Brn Fxln Dns Micrite No Vis Por Chalky Sh Char Gry Red Fissil No Odor No Stn no Flour Ns

Ls Wht-Crm-Brn Fxln Dns Micrite No Vis Por Fos (Cry) Chalky Sh Char Gry Red Fissil No Odor No Stn No Flour Ns

Ls Wht-Crm-Brn Fxln Dns Micrite No Vis Por Chalky Sh Char Gry Red Fissil No Odor No Stn No Flour Ns

LOWER MARMATON 4974'(-2763)

Ls Wht-Crm-Brn Fxln Dns Micrite No Vis Por Chalky Sh Char Gry Red Fissil No Odor No Stn no Flour Ns

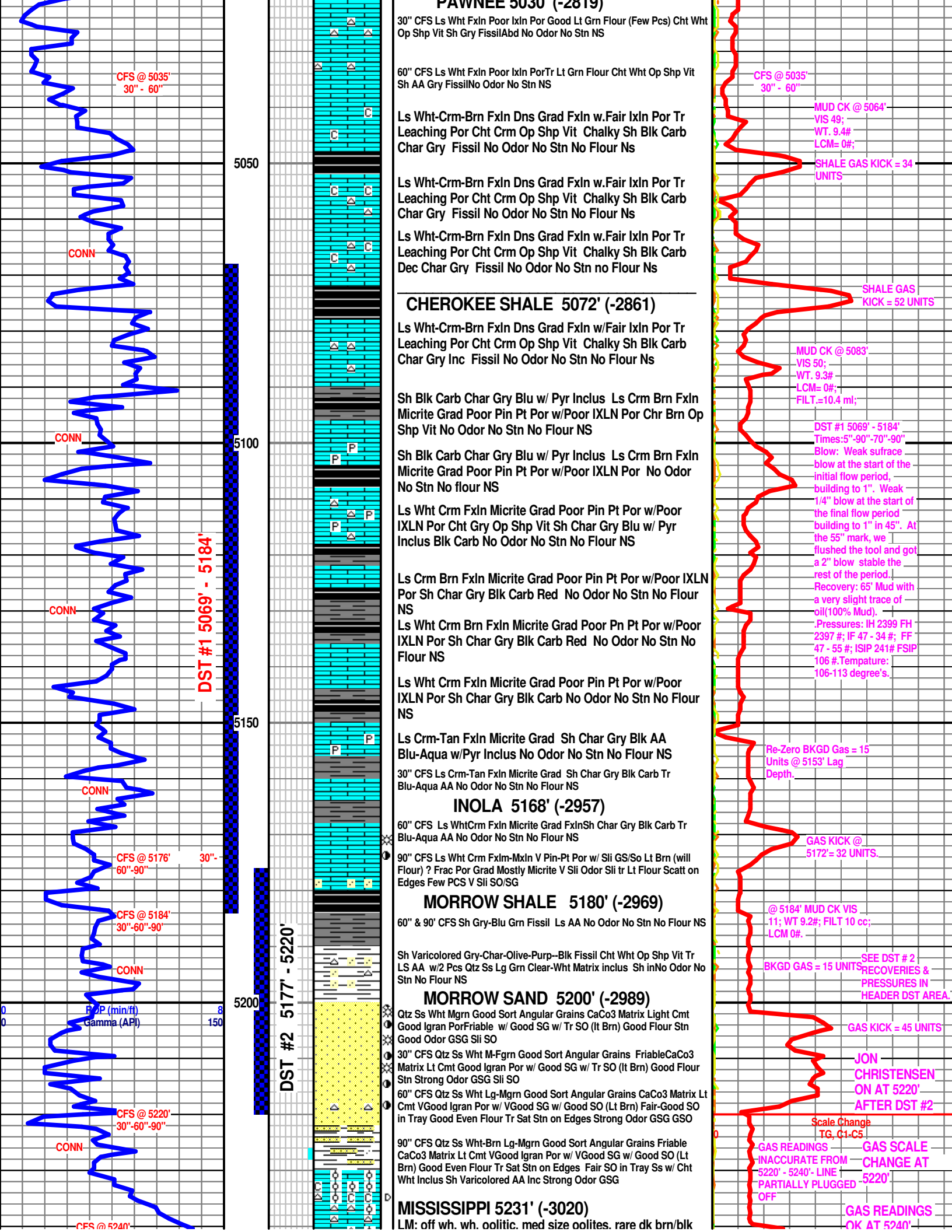
Ls Wht-Crm-Brn Fxln Dns Micrite No Vis Por Chalky Sh Char Gry w/Pyr Inclus Tr/ Red Fissil No Odor No Stn no Flour Ns

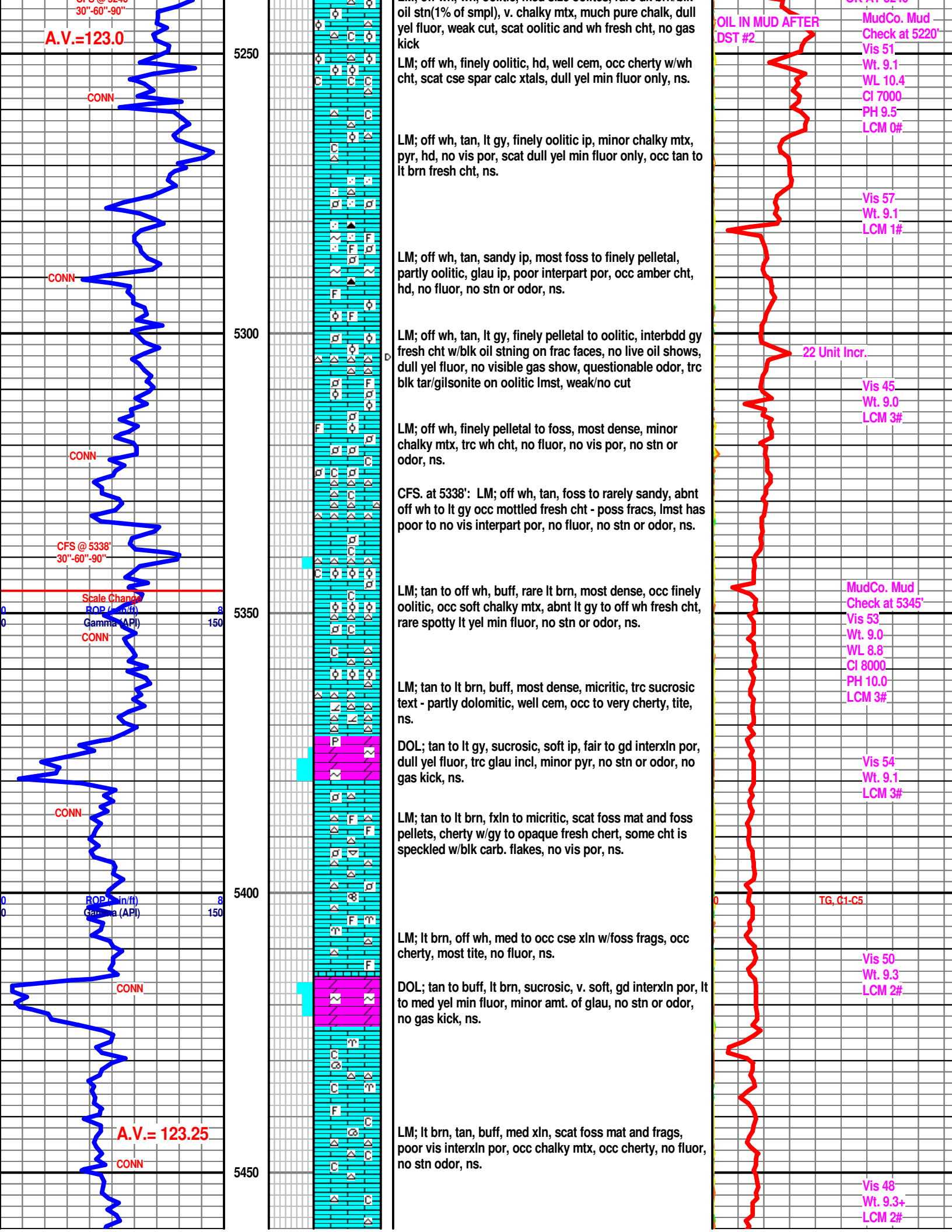
30'' CFS Ls Wht Fxln Poor Ixln Por ? Frac Por Soft w/ Good Lt Grn Flour Sli Odor SSG w/Broken NSO Cht Wht Op Shp Vit Sh AA w/ Tr Pyr Inclus VSSG

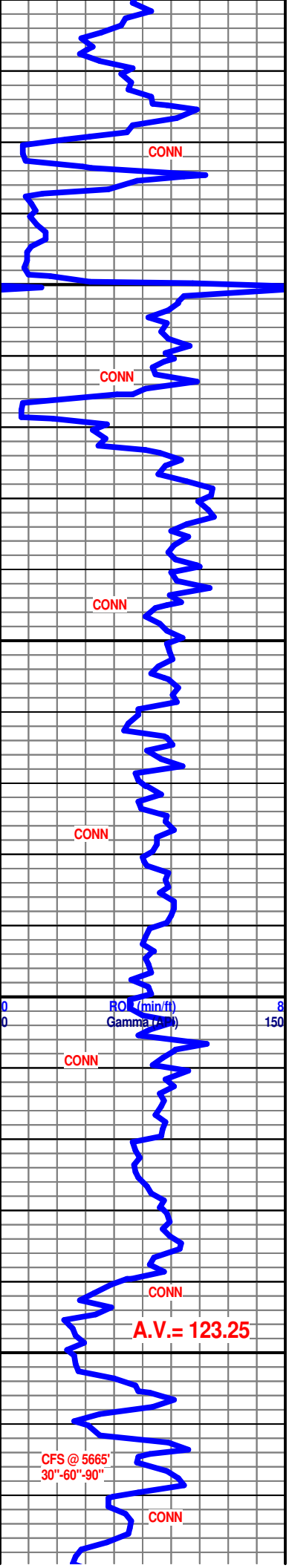
60'' CFS Ls Wht Fxln Poor Ixln Por ? Frac Por Soft w/ Good Lt Grn Flour Sli Odor SSG w/Broken NSO Cht Wht Op Shp Vit Sh AA VSSG

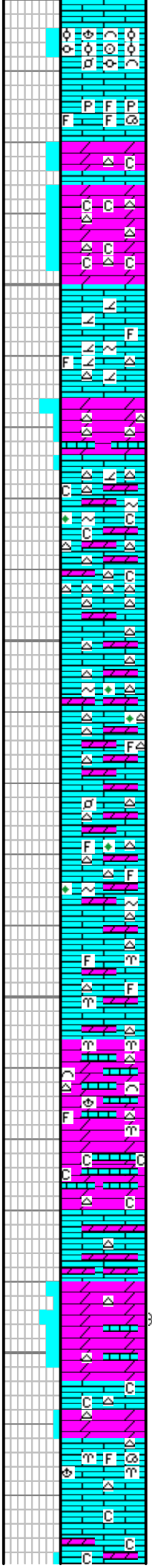
Ls AA Sh AA Much Debris Poor Sample No Odor No Stn No Flour NS

PAWNEE 5020' (-2810)


CFS @ 5035'
30" - 60"
CONN
CONN
CONN
CONN
CFS @ 5176'
60"-90"
30"-
CFS @ 5184'
30"-60"-90'
CONN
CFS @ 5220'
30"-60"-90"
CONN
CFS @ 5240'
5050
5100
5150
5200
DST #1 5069' - 5184'
DST #2 5177' - 5220'
ROP (min/ft)
Gamma (API)
0
0
8
150
PAWNEE 5030' (-2819)
30" CFS Ls Wht Fxln Poor Ixln Por Good Lt Grn Flour (Few Pcs) Cht Wht Op Shp Vit Sh Gry FissilAbd No Odor No Stn NS
60" CFS Ls Wht Fxln Poor Ixln PorTr Lt Grn Flour Cht Wht Op Shp Vit Sh AA Gry FissilNo Odor No Stn NS
Ls Wht-Crm-Brn Fxln Dns Grad Fxln w.Fair Ixln Por Tr Leaching Por Cht Crm Op Shp Vit Chalky Sh Blk Carb Char Gry Fissil No Odor No Stn No Flour Ns
Ls Wht-Crm-Brn Fxln Dns Grad Fxln w.Fair Ixln Por Tr Leaching Por Cht Crm Op Shp Vit Chalky Sh Blk Carb Char Gry Fissil No Odor No Stn No Flour Ns
Ls Wht-Crm-Brn Fxln Dns Grad Fxln w.Fair Ixln Por Tr Leaching Por Cht Crm Op Shp Vit Chalky Sh Blk Carb Dec Char Gry Fissil No Odor No Stn no Flour Ns
CHEROKEE SHALE 5072' (-2861)
Ls Wht-Crm-Brn Fxln Dns Grad Fxln w/Fair Ixln Por Tr Leaching Por Cht Crm Op Shp Vit Chalky Sh Blk Carb Char Gry Inc Fissil No Odor No Stn No Flour Ns
Sh Blk Carb Char Gry Blu w/ Pyr Inclus Ls Crm Brn Fxln Micrite Grad Poor Pin Pt Por w/Poor IXLN Por Chr Brn Op Shp Vit No Odor No Stn No Flour NS
Sh Blk Carb Char Gry Blu w/ Pyr Inclus Ls Crm Brn Fxln Micrite Grad Poor Pin Pt Por w/Poor IXLN Por No Odor No Stn No flour NS
Ls Wht Crm Fxln Micrite Grad Poor Pin Pt Por w/Poor IXLN Por Cht Gry Op Shp Vit Sh Char Gry Blu w/ Pyr Inclus Blk Carb No Odor No Stn No Flour NS
Ls Crm Brn Fxln Micrite Grad Poor Pin Pt Por w/Poor IXLN Por Sh Char Gry Blk Carb Red No Odor No Stn No Flour NS
Ls Wht Crm Brn Fxln Micrite Grad Poor Pn Pt Por w/Poor IXLN Por Sh Char Gry Blk Carb Red No Odor No Stn No Flour NS
Ls Wht Crm Fxln Micrite Grad Poor Pin Pt Por w/Poor IXLN Por Sh Char Gry Blk Carb No Odor No Stn No Flour NS
Ls Crm-Tan Fxln Micrite Grad Sh Char Gry Blk AA Blu-Aqua w/Pyr Inclus No Odor No Stn No Flour NS
30" CFS Ls Crm-Tan Fxln Micrite Grad Sh Char Gry Blk Carb Tr Blu-Aqua AA No Odor No Stn No Flour NS
INOLA 5168' (-2957)
60" CFS Ls WhtCrm Fxln Micrite Grad FxlnSh Char Gry Blk Carb Tr Blu-Aqua AA No Odor No Stn No Flour NS
90" CFS Ls Wht Crm Fxlm-Mxln V Pin-Pt Por w/ Sli GS/So Lt Brn (will Flour) ? Frac Por Grad Mostly Micrite V Sli Odor Sli tr Lt Flour Scatt on Edges Few PCS V Sli SO/SG
MORROW SHALE 5180' (-2969)
60" & 90' CFS Sh Gry-Blu Grn Fissil Ls AA No Odor No Stn No Flour NS
Sh Varicolored Gry-Char-Olive-Purp--Blk Fissil Cht Wht Op Shp Vit Tr LS AA w/2 Pcs Qtz Ss Lg Grn Clear-Wht Matrix inclus Sh inNo Odor No Stn No Flour NS
MORROW SAND 5200' (-2989)
Qtz Ss Wht Mgrn Good Sort Angular Grains CaCo3 Matrix Light Cmt Good Igran PorFriable w/ Good SG w/ Tr SO (lt Brn) Good Flour Stn Good Odor GSG Sli SO
30" CFS Qtz Ss Wht M-Fgrn Good Sort Angular Grains FriableCaCo3 Matrix Lt Cmt Good Igran Por w/ Good SG w/ Tr SO (lt Brn) Good Flour Stn Strong Odor GSG Sli SO
60" CFS Qtz Ss Wht Lg-Mgrn Good Sort Angular Grains CaCo3 Matrix Lt Cmt VGood Igran Por w/ VGood SG w/ Good SO (Lt Brn) Fair-Good SO in Tray Good Even Flour Tr Sat Stn on Edges Strong Odor GSG GSO
90" CFS Qtz Ss Wht-Brn Lg-Mgrn Good Sort Angular Grains Friable CaCo3 Matrix Lt Cmt VGood Igran Por w/ VGood SG w/ Good SO (Lt Brn) Good Even Flour Tr Sat Stn on Edges Fair SO in Tray Ss w/ Cht Wht Inclus Sh Varicolored AA Inc Strong Odor GSG
MISSISSIPPI 5231' (-3020)
LM: off wh, wh, oolitic, med size oolites, rare dk brn/blk
CFS @ 5035'
30" - 60"
MUD CK @ 5064'
VIS 49;
WT. 9.4#
LCM= 0#;
SHALE GAS KICK = 34 UNITS
SHALE GAS KICK = 52 UNITS
MUD CK @ 5083'
VIS 50;
WT. 9.3#
LCM= 0#;
FILT.=10.4 ml;
DST #1 5069' - 5184'
Times:5"-90"-70"-90"
Blow: Weak sufrace blow at the start of the initial flow period, building to 1". Weak 1/4" blow at the start of the final flow period building to 1" in 45". At the 55" mark, we flushed the tool and got a 2" blow stable the rest of the period.
Recovery: 65' Mud with a very slight trace of oil(100% Mud).
Pressures: IH 2399 FH 2397 #; IF 47 - 34 #; FF 47 - 55 #; ISIP 241# FSIP 106 #.Tempature: 106-113 degree's.
Re-Zero BKGD Gas = 15 Units @ 5153' Lag Depth.
GAS KICK @ 5172'= 32 UNITS.
@ 5184' MUD CK VIS 11; WT 9.2#; FILT 10 cc; LCM 0#.
BKGD GAS = 15 UNITS
SEE DST # 2 RECOVERIES & PRESSURES IN HEADER DST AREA.
GAS KICK = 45 UNITS
JON CHRISTENSEN ON AT 5220' AFTER DST #2
Scale Change
TG, C1-C5
0
GAS READINGS INACCURATE FROM 5220' - 5240'- LINE PARTIALLY PLUGGED OFF
GAS SCALE CHANGE AT 5220'
GAS READINGS OK AT 5240'


30"-60"-90"
A.V.=123.0
CONN
CONN
CONN
CFS @ 5338'
30"-60"-90"
Scale Change
ROP (min/ft)
Gamma (API)
CONN
CONN
CONN
A.V.= 123.25
CONN
5250
5300
5350
5400
5450
oil stn(1% of smpl), v. chalky mtx, much pure chalk, dull yel fluor, weak cut, scat oolitic and wh fresh cht, no gas kick
LM; off wh, finely oolitic, hd, well cem, occ cherty w/wh cht, scat cse spar calc xtals, dull yel min fluor only, ns.
LM; off wh, tan, lt gy, finely oolitic ip, minor chalky mtx, pyr, hd, no vis por, scat dull yel min fluor only, occ tan to lt brn fresh cht, ns.
LM; off wh, tan, sandy ip, most foss to finely pelletal, partly oolitic, glau ip, poor interpart por, occ amber cht, hd, no fluor, no stn or odor, ns.
LM; off wh, tan, lt gy, finely pelletal to oolitic, interbdd gy fresh cht w/blk oil stning on frac faces, no live oil shows, dull yel fluor, no visible gas show, questionable odor, trc blk tar/gilsonite on oolitic lmst, weak/no cut
LM; off wh, finely pelletal to foss, most dense, minor chalky mtx, trc wh cht, no fluor, no vis por, no stn or odor, ns.
CFS. at 5338': LM; off wh, tan, foss to rarely sandy, abnt off wh to lt gy occ mottled fresh cht - poss fracs, lmst has poor to no vis interpart por, no fluor, no stn or odor, ns.
LM; tan to off wh, buff, rare lt brn, most dense, occ finely oolitic, occ soft chalky mtx, abnt lt gy to off wh fresh cht, rare spotty lt yel min fluor, no stn or odor, ns.
LM; tan to lt brn, buff, most dense, micritic, trc sucrosic text - partly dolomitic, well cem, occ to very cherty, tite, ns.
DOL; tan to lt gy, sucrosic, soft ip, fair to gd interxln por, dull yel fluor, trc glau incl, minor pyr, no stn or odor, no gas kick, ns.
LM; tan to lt brn, fxln to micritic, scat foss mat and foss pellets, cherty w/gy to opaque fresh chert, some cht is speckled w/blk carb. flakes, no vis por, ns.
LM; lt brn, off wh, med to occ cse xln w/foss frags, occ cherty, most tite, no fluor, ns.
DOL; tan to buff, lt brn, sucrosic, v. soft, gd interxln por, lt to med yel min fluor, minor amt. of glau, no stn or odor, no gas kick, ns.
LM; lt brn, tan, buff, med xln, scat foss mat and frags, poor vis interxln por, occ chalky mtx, occ cherty, no fluor, no stn odor, ns.
OIL IN MUD AFTER DST #2
MudCo. Mud Check at 5220'
Vis 51
Wt. 9.1
WL 10.4
Cl 7000
PH 9.5
LCM 0#
Vis 57
Wt. 9.1
LCM 1#
22 Unit Incr.
Vis 45
Wt. 9.0
LCM 3#
MudCo. Mud Check at 5345'
Vis 53
Wt. 9.0
WL 8.8
Cl 8000
PH 10.0
LCM 3#
Vis 54
Wt. 9.1
LCM 3#
TG, C1-C5
Vis 50
Wt. 9.3
LCM 2#
Vis 48
Wt. 9.3+
LCM 2#





LM; lt brn, gran to v. foss, abnt foss pellets and hash, partly oolitic, weakly cem, fair interpart por, scat dull yel min fluor, no stn or odor, ns.

LM; med to dk brn, foss, hd, well cem, pyr ip.

DOL; tan to lt brn, sucrosic to finely rhombic, v. gd interxln por, cherty w/lt gy to off wh foss to spicular cht, interbdd soft chalk, occ spar calc xtals bdd w/dolo, dull yel min fluor, no stn or odor, no vis sample shows

LM; med brn to med gy brn, dolomitic, foss ip, gritty, mottled text ip, trc glau, hd, rare gy cht

DOL; tan to buff, finely rhombic to sucrosic, soft, gd interxln por, dull yel min fluor, no stn or odor, barren, interbdd off wh cht w/occ vug por, ns.

COWLEY FACIES??? 5523(-3312)

LM; med brn, gy brn, tan, lt gy, dolomitic, abnt wh to lt gy occ foss cht, chalky mtx ip, rare grn glau/ chlorite incl, well cem, no fluor, no stn or odor, ns.

LM; tan to cream, lt brn, dolomitic, cherty w/lt gy to off wh foss cht, scat grn chlorite/glau incl most dense, no fluor, ns.

LM; tan to cream, lt brn, rare lt gy, dolomitic, scat foss mat and rnd carb grains, minor amt of glau /chlorite, well cem, cherty, tite

LM; lt brn, lt gy brn, dolomitic, most dense, blocky, occ foss, rare lt gy cht, no fluor, no stn or odor, ns.

DOL; most med gy, lmy, med xln, hd, well cem, rare gy cht, gritty, some cse foss frags, tite

DOL; med gy to gy brn, lmy, scat cse foss frags, interbdd tan chalky lmst,

LM; lt gy brn, dolomitic, hd, scat cse xln dolomitic lmst, no vis por, scat dull yel min fluor, no stn, ns.

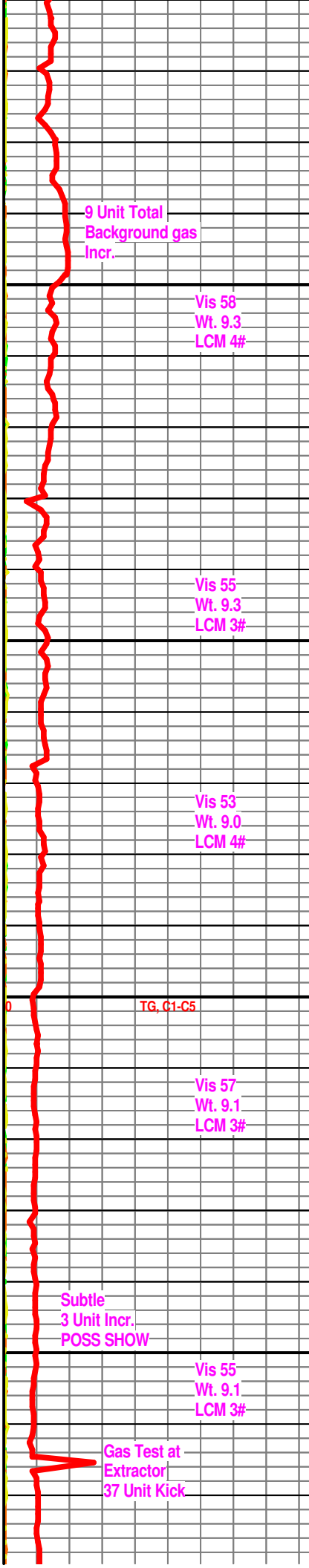
COWLEY POROSITY 5640(-3429)

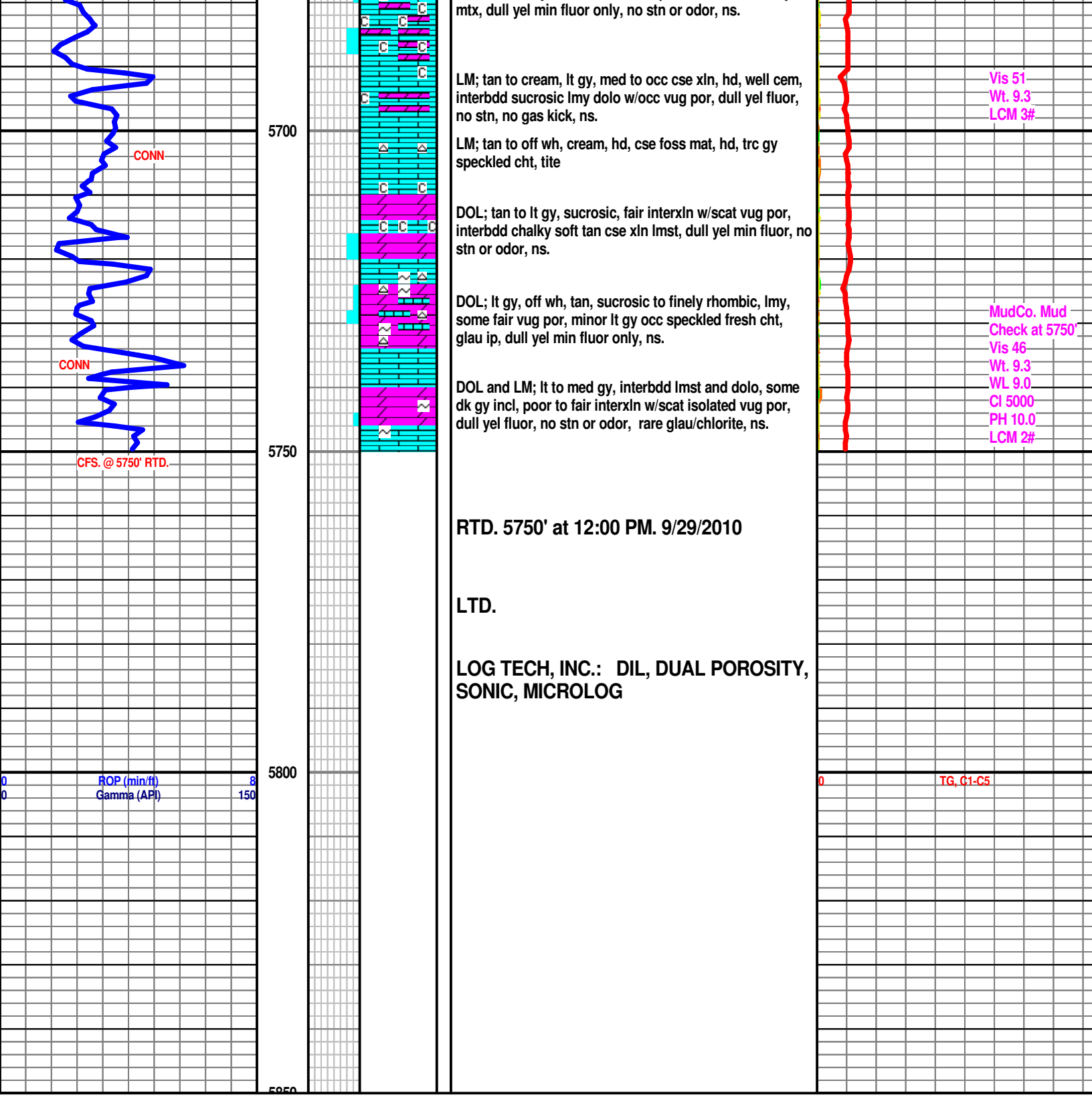
DOL; lt gy to lt gy brn, sucrosic, scat fairly well dev. vug por, fair interxln por also, interbdd lmy dolo, dull yel fluor, no vis oil stn, trace of gas bubbles, poss. sour odor(not strong), no cut, appears to be possible gas show only

LM; tan to lt gy brn, hd, occ chalky mtx, tite

CFS: 60" Sample: DOL: lt to med gy, occ gy brn, sucrosic, gd vug por w/fair interxln por, dull yel fluor, no odor, no vis oil stn, no cut, rare cht

LM; tand to cream, lt gy brn, most cse xln, dolomitic w/interbdd lmy dolo, fair interxln por, some soft chalky




CONN
CONN
CFS. @ 5750' RTD.
5700
5750
5800
0
ROP (min/ft)
8
0
Gamma (API)
150
mtx, dull yel min fluor only, no stn or odor, ns.
LM; tan to cream, lt gy, med to occ cse xln, hd, well cem, interbdd sucrosic lmy dolo w/occ vug por, dull yel fluor, no stn, no gas kick, ns.
LM; tan to off wh, cream, hd, cse foss mat, hd, trc gy speckled cht, tite
DOL; tan to lt gy, sucrosic, fair interxln w/scat vug por, interbdd chalky soft tan cse xln lmst, dull yel min fluor, no stn or odor, ns.
DOL; lt gy, off wh, tan, sucrosic to finely rhombic, lmy, some fair vug por, minor lt gy occ speckled fresh cht, glau ip, dull yel min fluor only, ns.
DOL and LM; lt to med gy, interbdd lmst and dolo, some dk gy incl, poor to fair interxln w/scat isolated vug por, dull yel fluor, no stn or odor, rare glau/chlorite, ns.
RTD. 5750' at 12:00 PM. 9/29/2010
LTD.
LOG TECH, INC.: DIL, DUAL POROSITY, SONIC, MICROLOG
Vis 51
Wt. 9.3
LCM 3#
MudCo. Mud Check at 5750'
Vis 46
Wt. 9.3
WL 9.0
Cl 5000
PH 10.0
LCM 2#
0
TG, C1-C5