Falcon Expoloration, Inc
Giles Land No. 1-29 (NW)
510' FNL and 1020' FWL
SE NE NW NW
Sec 29 T30S R21W
Clark County, Kansas

Geological Report
by

Macklin M. Armstrong, P.G.
License Number 743

Scale 1:240 Imperial

Well Name:	Giles Land No. 1-29 (NW)		
Surface Location:	Sec 29 T30S R21W		
Bottom Location:	510' FNL and 1020' FWL		
API:	15-025-21560		
License Number:	5316		
Spud Date:	6/1/2013	Time:	4:15 PM
Region:	Clark County, Kansas		
Drilling Completed:	6/12/2013	Time:	1:22 AM
Surface Coordinates:			
Bottom Hole Coordinates:			
Ground Elevation:	2325.00ft		
K.B. Elevation:	2335.00ft		
Logged Interval:	4000.00ft	To:	5402.00ft
Total Depth:	5400.00ft		
Formation:			
Drilling Fluid Type:	Chemical/Fresh Water Gel		

OPERATOR

Company:	Falcon Exploration, Inc.		
Address:	125 North Market Wichita, Kansas 67202		
Contact Geologist:	Dan Fredlund		
Contact Phone Nbr:	316-262-1378		
Well Name:	Giles Land No. 1-29 (NW)		
Location:	Sec 29 T30S R21W	API:	15-025-21560
Pool:	Gas	Field:	Wildcat
State:	Kansas	Country:	Clark

CONTRACTOR

Contractor:	Val Energy		
Rig #:	1		
Rig Type:	mud rotary		
Spud Date:	6/1/2013	Time:	4:15 PM
TD Date:	6/12/2013	Time:	1:22 AM
Rig Release:	6/13/2013	Time:	2:30 AM

ELEVATIONS

K.B. Elevation:	2335.00ft	Ground Elevation:	2325.00ft
K.B. to Ground:	10.00ft		

SURFACE CO-ORDINATES

Well Type:	Vertical		
Longitude:	99.6427005	Latitude:	37.4081046
N/S Co-ord:			
E/W Co-ord:			

NOTES

Date	Depth	Activity
6-01-12	MIRU	Spud at 4:15 pm
6-02-12	280	Drilling
6-03-12	696	WOC
6-04-12	1586	Wait on welder
6-05-12	2555	Drilling
6-06-12	3225	Drilling
6-07-12	3785	Drilling
6-08-12	4265	Drilling
6-09-12	4780	Drilling
6-10-12	5105	Drilling
6-11-12	5250	OB with DST No. 1
6-12-12	5400	TOH for Log
6-13-12	5400	P & A

Surface Casing: 13 3/8" at 280', 8 5/8" 24# at 694'
Production Casing: None set

Deviation: 256 - 1°
800 - 3/4°
5310 - 1°

Bit Record:	Make	Size	Type	Depth In	Depth Out	Hours
	JZ	13 3/8"	Rock bit	Surface	280	2
	JZ	12 1/4"	Rock bit	280	696	5
	JZ	7 7/8"	HA20Q	696	5250	139 1/2
	JZ	7 7/8"	HF41BN	5250	5400	10

Drill Stem Tests:

DST No. 1 5208 to 5250 Formation: Mississippi
5-90-120-150
Gas flows: IFP: GTS in 2.5"
FFP: 10" - 2271 mcf, 20" - 2229 mcf, 30" - 2085 mcf, 40" - 1980 mcf, 50" - 1911 mcf, 60" - 1797 mcf, 70" - 1729 mcf, 80" - 1656 mcf, 90" - 1612 mcf, 100" - 1539 mcf, 110" - 1506 mcf, 120" - 1462 mcf
Recovery: 80' Mud
IHP 2469 FHP 2468
IFP 727-440 FFP 417-265
ISIP 1644 FSIP 1280
Temp 123°

Formation	Sample	E-Log	Datum	Well 1	Well 2	Well 3
King Hill	4151	4155	-1820	-20		+27

King Hill	4151	4153	-1820	-20		+27
Heebner	4322	4324	-1989	-11	-8	+30
Douglas	4358	4362	-2027	-13	-6	+30
Brown Lime	4500	4502	-2167	-11	-13	+28
Lansing	4520	4524	-2189	-12	-14	+13
Stark	4864	4866	-2531	-4	-14	+32
Hushpuckney	4906	4907	-2572	-1	-13	+29
B/Kansas City	4970	4972	-2637	0	-12	+28
Marmaton	4989	4991	-2656	+3	-11	+29
Altamont	5028	5029	-2694	+1	-7	+29
Pawnee	5064	5064	-2729	+2	-7	+30
Fort Scott	5100	5102	-2767	+1	-8	+29
Cherokee Shale	5111	5115	-2780	+1	-7	+29
Inola	5203	5206	-2871	-1	-8	+32
Morrow Shale	5212	5215	-2880	0	-9	+31
Mississippi	5224	5227	-2892	+9	-3	+36
Total Depth	5400	5402	-3067			

Reference Well No. 1: Molz Oil Company, Seacat No. 1 C NW NE Sec 291 T30S R21W
Reference Well No. 2: Diversified Operating Corporation, Caddy No. 20-10-4 SW NW SE Sec 20 T30S R21W
Reference Well No. 3: Falcon Exploration, Norman No. 1-30, NW NE SW SE Sec 30 T30S R21W

Due to the results of the Drill Stem Test and the electric log calculations, it was decided to plug this test well.

Respectfully submitted,
Macklin M. Armstrong

ROCK TYPES

Lmst fw7>
shale, gry
shale, red
shale, grn
Carbon Sh

ACCESSORIES

MINERAL
- Chert, dark
- Glauconite
- Chert White

FOSSIL
- Crinoids
- F Fossils < 20%
- Oolite

STRINGER
- Siltstone

TEXTURE
- C Chalky

OTHER SYMBOLS

DST
- DST Int
- DST alt
- Core

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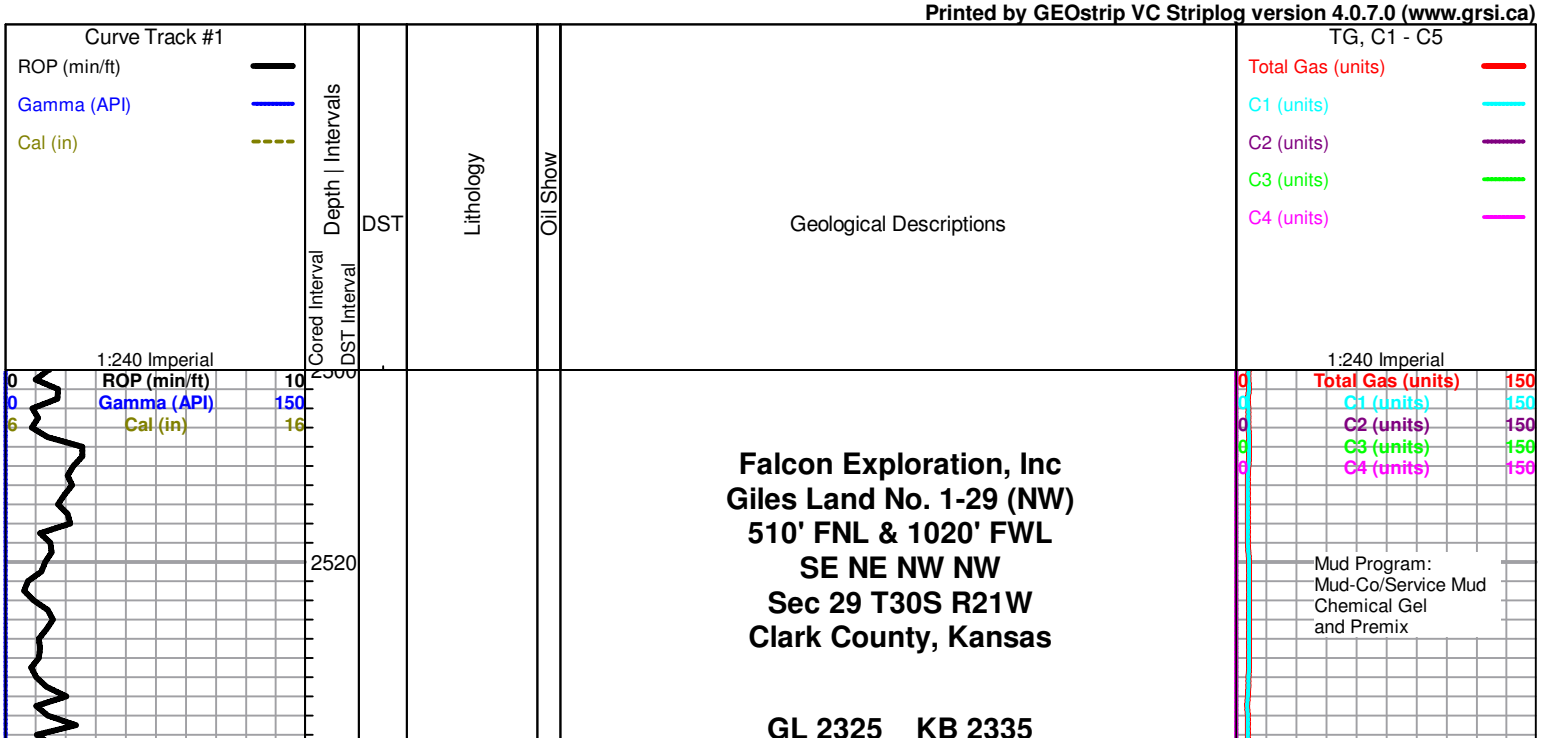
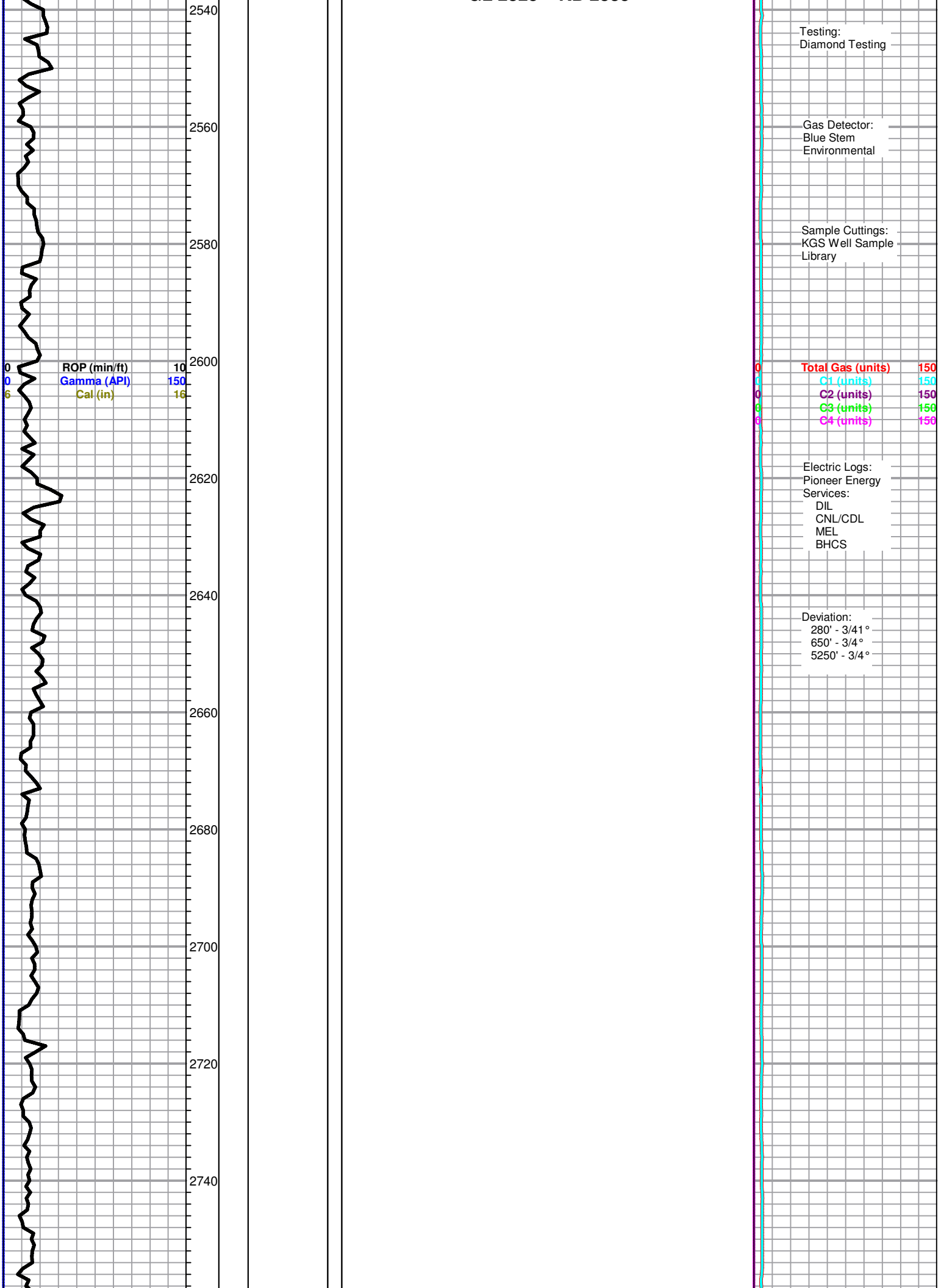
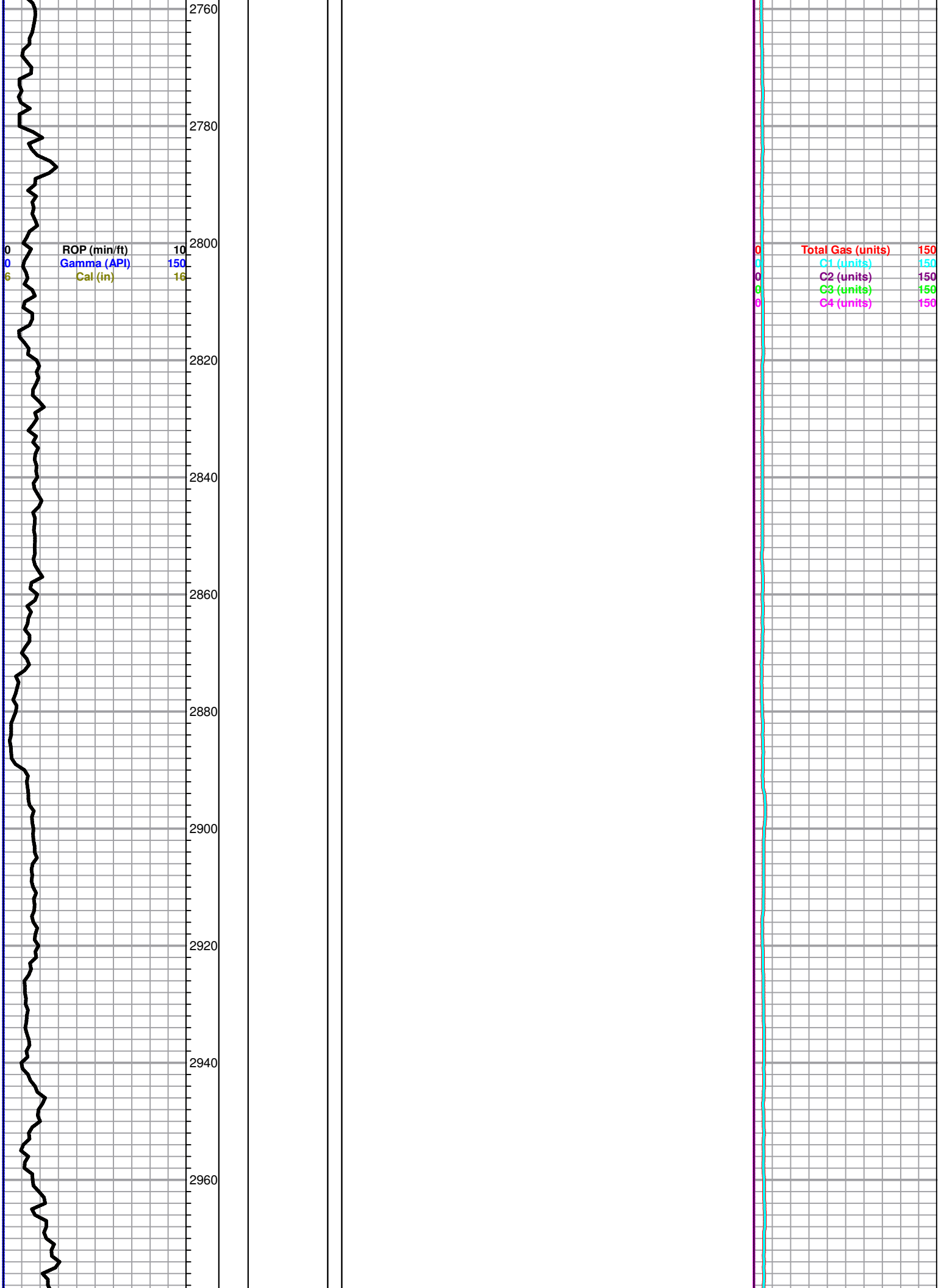
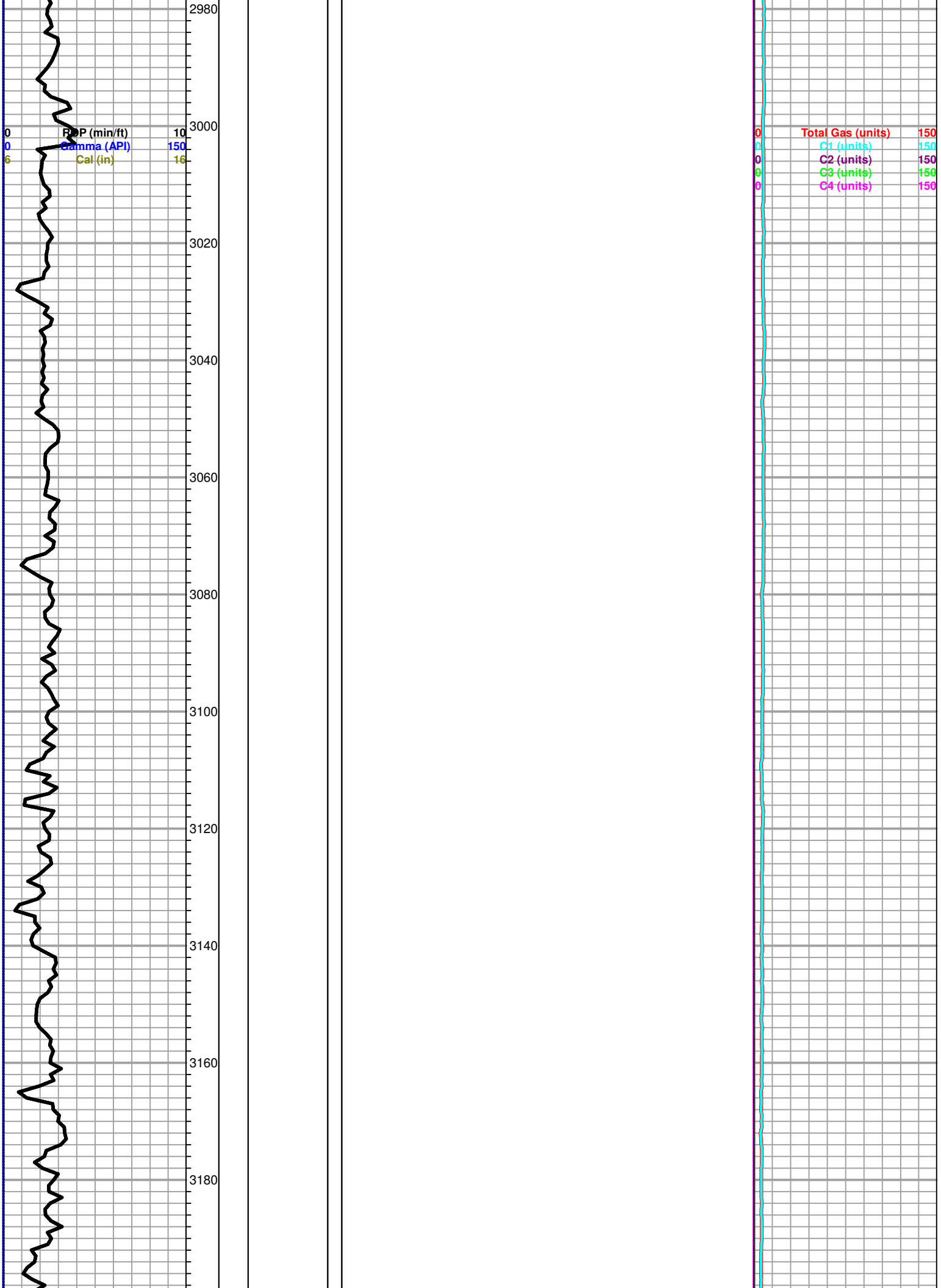
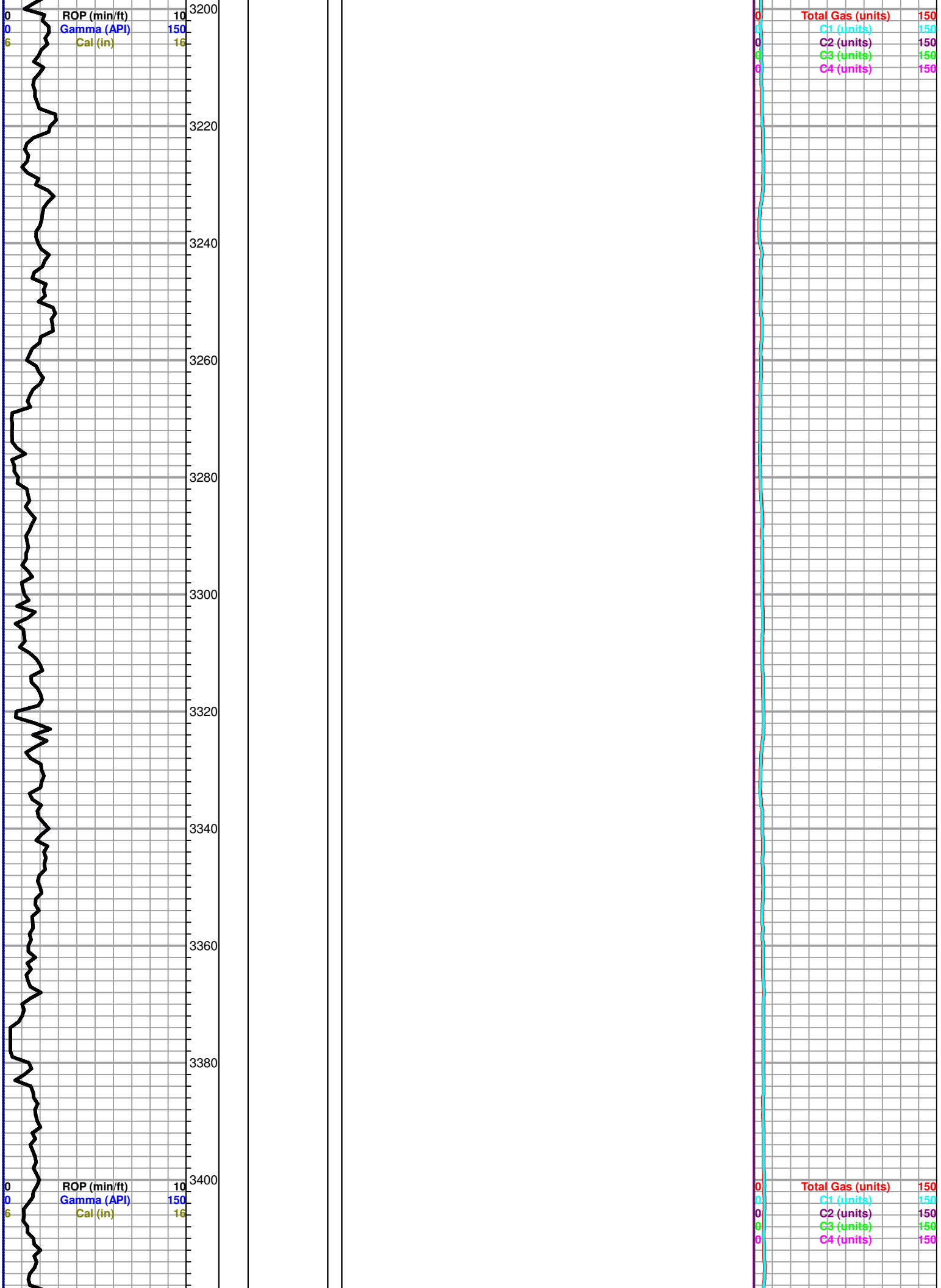
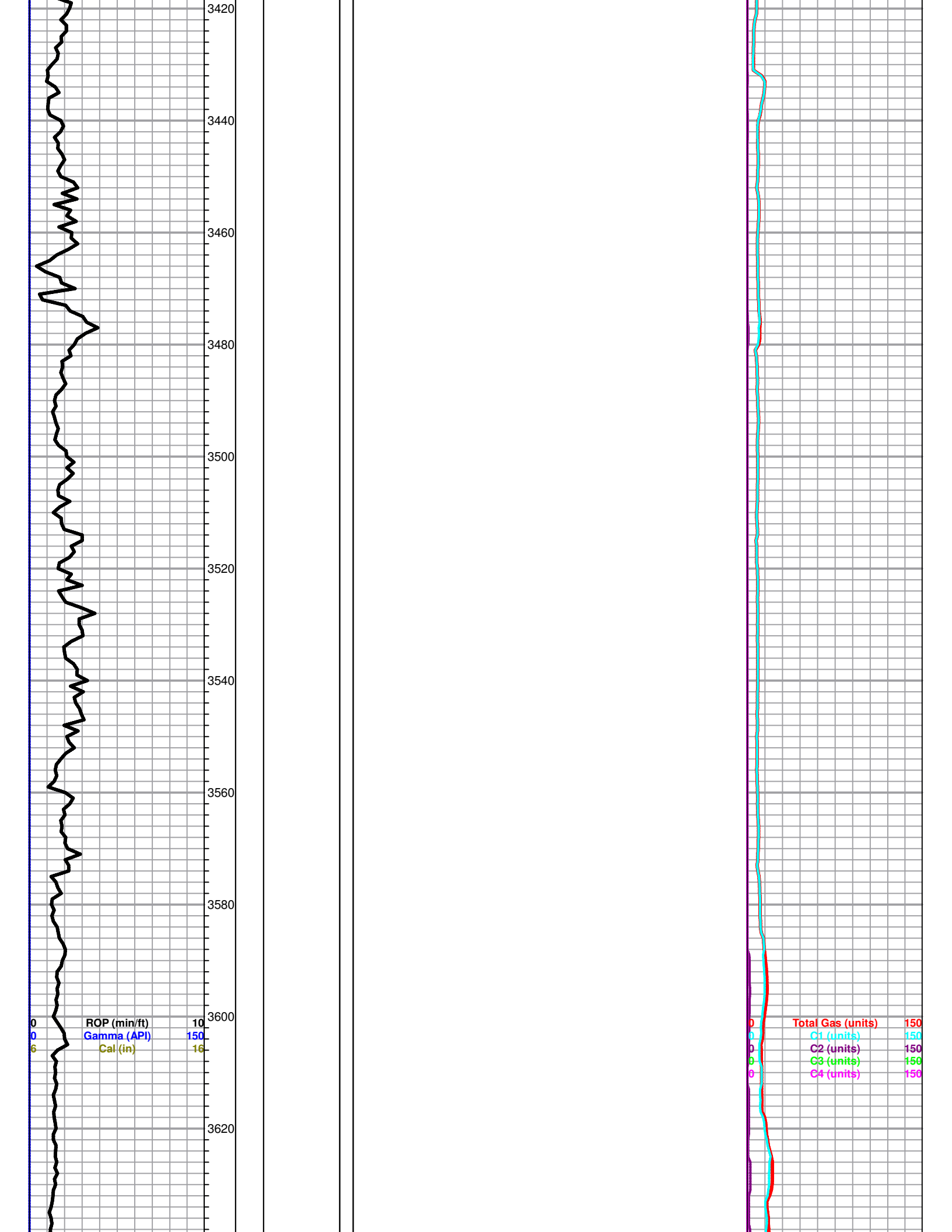


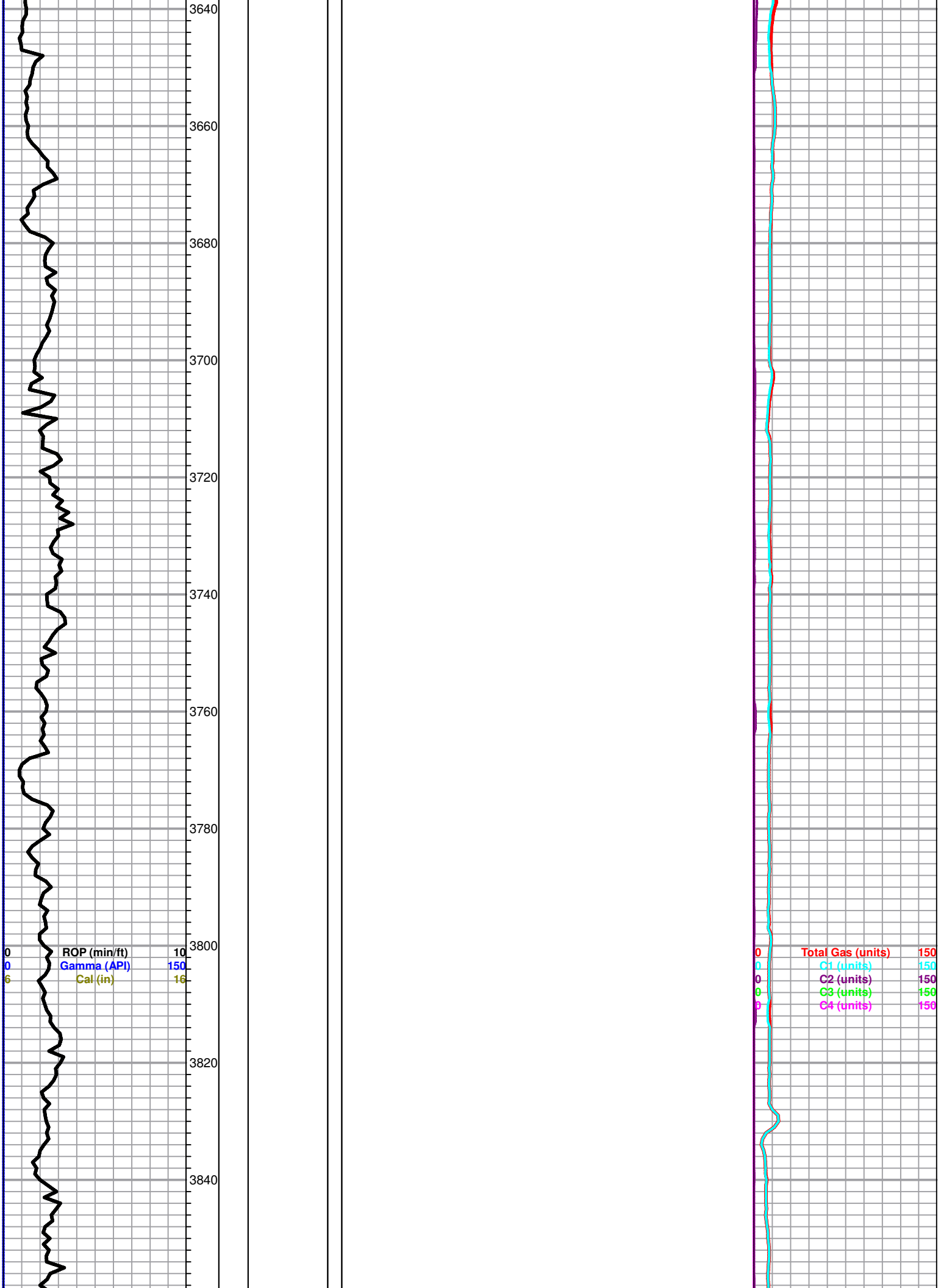

2540
2560
2580
2600
2620
2640
2660
2680
2700
2720
2740
0
ROP (min/ft)
10
0
Gamma (API)
150
6
Cal (in)
16
Testing:
Diamond Testing
Gas Detector:
Blue Stem
Environmental
Sample Cuttings:
KGS Well Sample
Library
0
Total Gas (units)
150
0
C1 (units)
150
0
C2 (units)
150
0
C3 (units)
150
0
C4 (units)
150
Electric Logs:
Pioneer Energy
Services:
DIL
CNL/CDL
MEL
BHCS
Deviation:
280' - 3/41°
650' - 3/4°
5250' - 3/4°

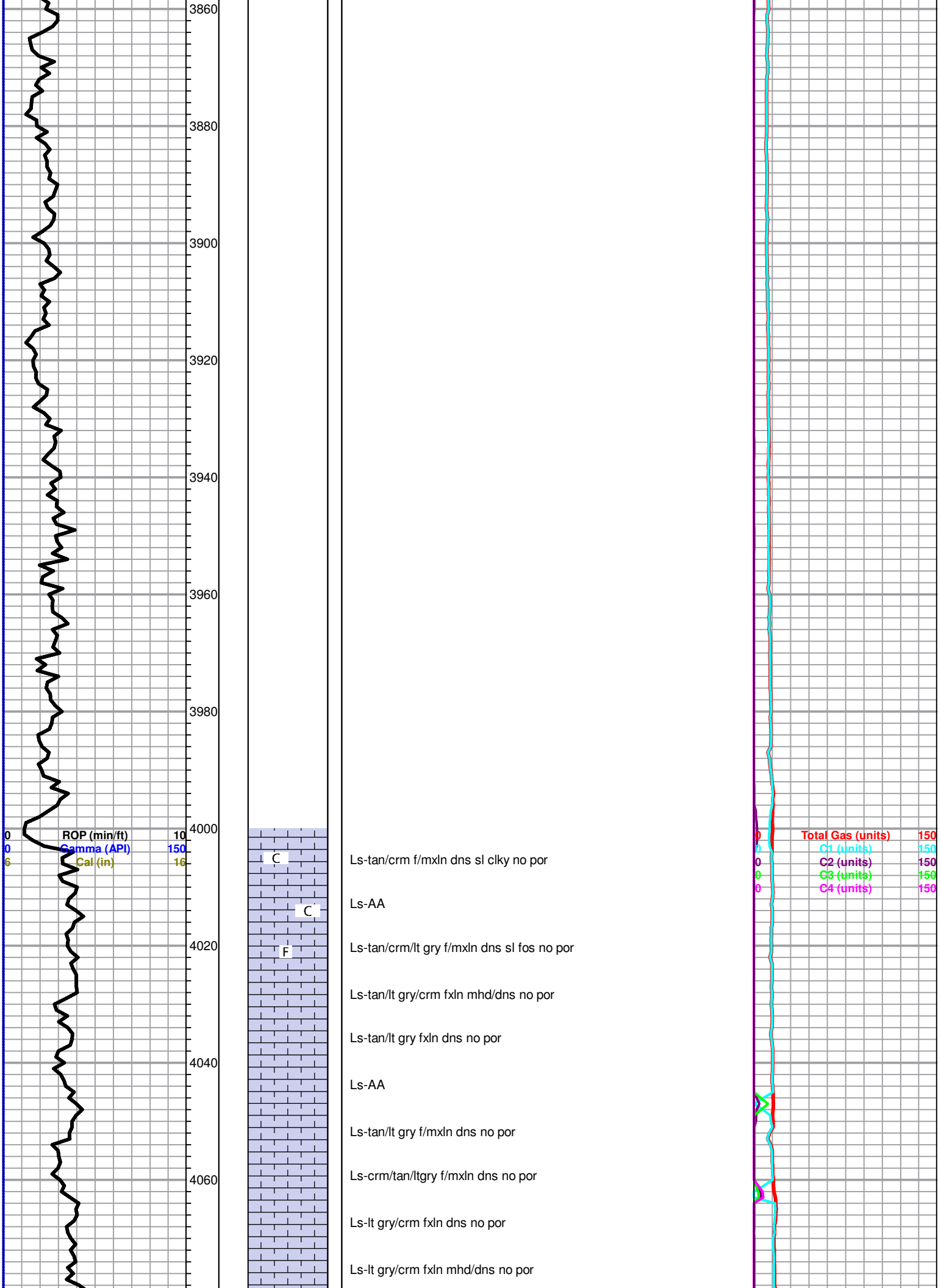

0
ROP (min/ft)
10
0
Gamma (API)
150
6
Cal (in)
16
0
Total Gas (units)
150
0
C1 (units)
150
0
C2 (units)
150
0
C3 (units)
150
0
C4 (units)
150
2760
2780
2800
2820
2840
2860
2880
2900
2920
2940
2960

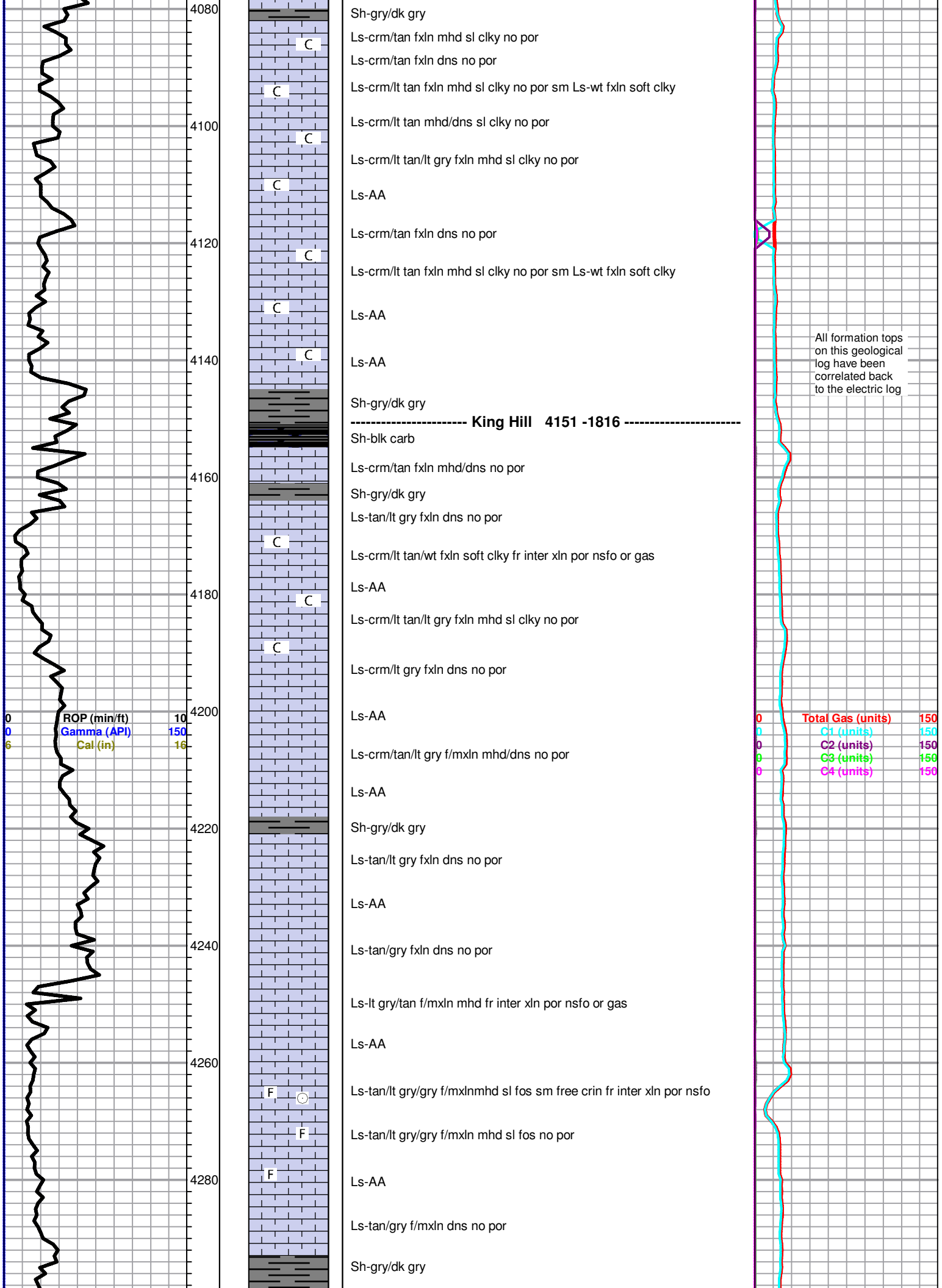

0
ROP (min/ft)
10
0
Gamma (API)
150
6
Cal (in)
16
2980
3000
3020
3040
3060
3080
3100
3120
3140
3160
3180
0
Total Gas (units)
150
0
C1 (units)
150
0
C2 (units)
150
0
C3 (units)
150
0
C4 (units)
150

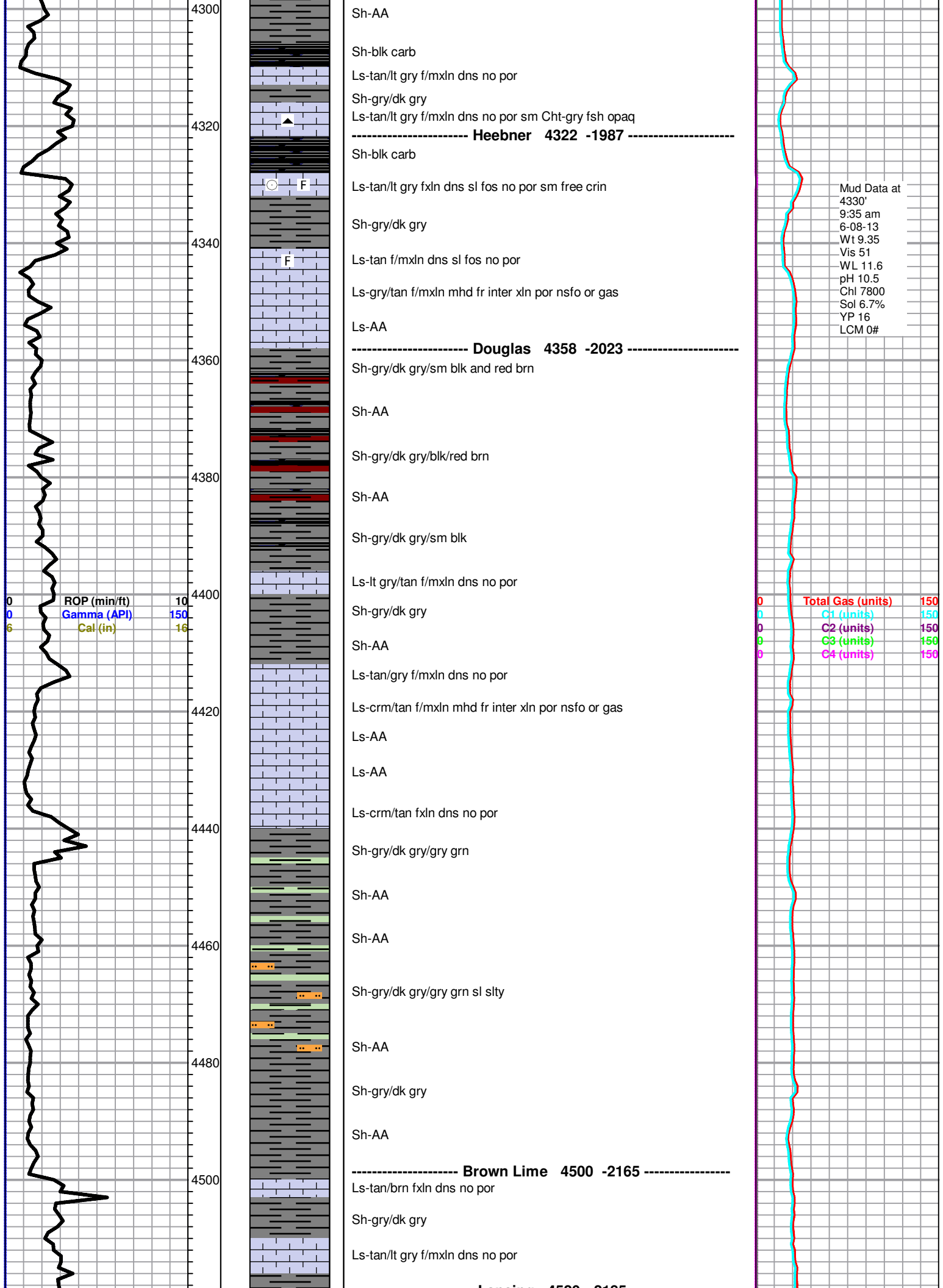

0
ROP (min/ft)
10
0
Gamma (API)
150
6
Cal (in)
16
3200
3220
3240
3260
3280
3300
3320
3340
3360
3380
3400
0
Total Gas (units)
150
0
C1 (units)
150
0
C2 (units)
150
0
C3 (units)
150
0
C4 (units)
150

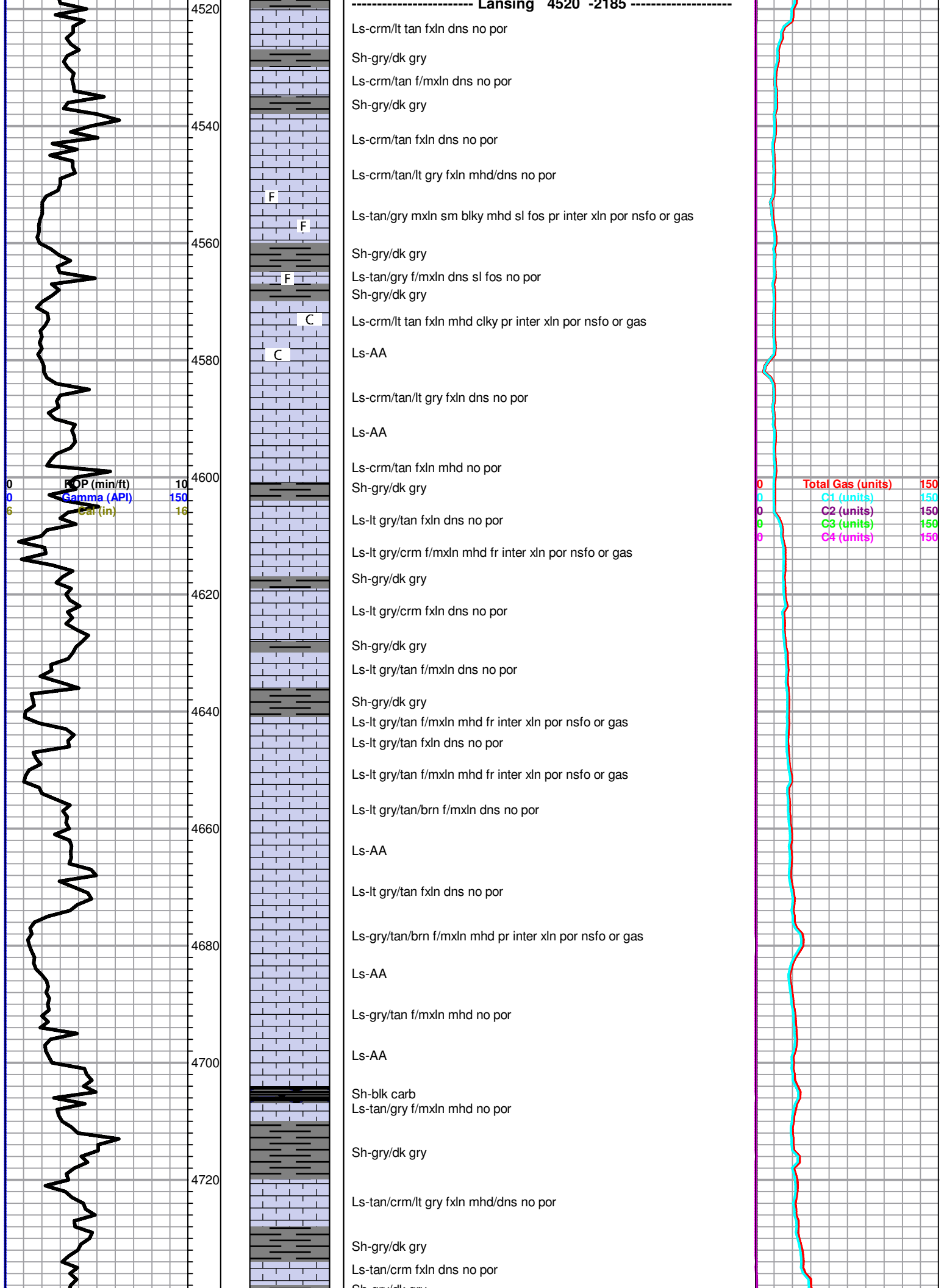

3420
3440
3460
3480
3500
3520
3540
3560
3580
3600
3620
0
ROP (min/ft)
10
0
Gamma (API)
150
6
Cal (in)
16
0
Total Gas (units)
150
0
C1 (units)
150
0
C2 (units)
150
0
C3 (units)
150
0
C4 (units)
150


3640
3660
3680
3700
3720
3740
3760
3780
3800
3820
3840
0 ROP (min/ft) 10
0 Gamma (API) 150
6 Cal (in) 16
0 Total Gas (units) 150
0 C1 (units) 150
0 C2 (units) 150
0 C3 (units) 150
0 C4 (units) 150


3860
3880
3900
3920
3940
3960
3980
4000
4020
4040
4060
0
ROP (min/ft)
10
0
Gamma (API)
150
6
Cal (in)
16
C
C
F
Ls-tan/crm f/mxln dns sl clky no por
Ls-AA
Ls-tan/crm/lt gry f/mxln dns sl fos no por
Ls-tan/lt gry/crm fxln mhd/dns no por
Ls-tan/lt gry fxln dns no por
Ls-AA
Ls-tan/lt gry f/mxln dns no por
Ls-crm/tan/ltgry f/mxln dns no por
Ls-lt gry/crm fxln dns no por
Ls-lt gry/crm fxln mhd/dns no por
0
Total Gas (units)
150
0
C1 (units)
150
0
C2 (units)
150
0
C3 (units)
150
0
C4 (units)
150


0 ROP (min/ft) 10
0 Gamma (API) 150
6 Cal (in) 16
4080
4100
4120
4140
4160
4180
4200
4220
4240
4260
4280
C
F
Sh-gry/dk gry
Ls-crm/tan fxln mhd sl clky no por
Ls-crm/tan fxln dns no por
Ls-crm/lt tan fxln mhd sl clky no por sm Ls-wt fxln soft clky
Ls-crm/lt tan mhd/dns sl clky no por
Ls-crm/lt tan/lt gry fxln mhd sl clky no por
Ls-AA
Ls-crm/tan fxln dns no por
Ls-crm/lt tan fxln mhd sl clky no por sm Ls-wt fxln soft clky
Ls-AA
Ls-AA
Sh-gry/dk gry
---------- King Hill 4151 -1816 ----------
Sh-blk carb
Ls-crm/tan fxln mhd/dns no por
Sh-gry/dk gry
Ls-tan/lt gry fxln dns no por
Ls-crm/lt tan/wt fxln soft clky fr inter xln por nsfo or gas
Ls-AA
Ls-crm/lt tan/lt gry fxln mhd sl clky no por
Ls-crm/lt gry fxln dns no por
Ls-AA
Ls-crm/tan/lt gry f/mxln mhd/dns no por
Ls-AA
Sh-gry/dk gry
Ls-tan/lt gry fxln dns no por
Ls-AA
Ls-tan/gry fxln dns no por
Ls-lt gry/tan f/mxln mhd fr inter xln por nsfo or gas
Ls-AA
Ls-tan/lt gry/gry f/mxlnmhd sl fos sm free crin fr inter xln por nsfo
Ls-tan/lt gry/gry f/mxln mhd sl fos no por
Ls-AA
Ls-tan/gry f/mxln dns no por
Sh-gry/dk gry
All formation tops on this geological log have been correlated back to the electric log
0 Total Gas (units) 150
0 C1 (units) 150
0 C2 (units) 150
0 C3 (units) 150
0 C4 (units) 150


0
ROP (min/ft)
10
0
Gamma (API)
150
6
Cal (in)
16
4300
4320
4340
4360
4380
4400
4420
4440
4460
4480
4500
F
F
Sh-AA
Sh-blk carb
Ls-tan/lt gry f/mxln dns no por
Sh-gry/dk gry
Ls-tan/lt gry f/mxln dns no por sm Cht-gry fsh opaq
---------- Heebner 4322 -1987 ----------
Sh-blk carb
Ls-tan/lt gry fxln dns sl fos no por sm free crin
Sh-gry/dk gry
Ls-tan f/mxln dns sl fos no por
Ls-gry/tan f/mxln mhd fr inter xln por nsfo or gas
Ls-AA
---------- Douglas 4358 -2023 ----------
Sh-gry/dk gry/sm blk and red brn
Sh-AA
Sh-gry/dk gry/blk/red brn
Sh-AA
Sh-gry/dk gry/sm blk
Ls-lt gry/tan f/mxln dns no por
Sh-gry/dk gry
Sh-AA
Ls-tan/gry f/mxln dns no por
Ls-crm/tan f/mxln mhd fr inter xln por nsfo or gas
Ls-AA
Ls-AA
Ls-crm/tan fxln dns no por
Sh-gry/dk gry/gry grn
Sh-AA
Sh-AA
Sh-gry/dk gry/gry grn sl slty
Sh-AA
Sh-gry/dk gry
Sh-AA
---------- Brown Lime 4500 -2165 ----------
Ls-tan/brn fxln dns no por
Sh-gry/dk gry
Ls-tan/lt gry f/mxln dns no por
Mud Data at
4330'
9:35 am
6-08-13
Wt 9.35
Vis 51
WL 11.6
pH 10.5
Chl 7800
Sol 6.7%
YP 16
LCM 0#
0
Total Gas (units)
150
0
C1 (units)
150
0
C2 (units)
150
0
C3 (units)
150
0
C4 (units)
150



---------- Lansing 4520 -2185 ----------

Ls-crm/lt tan fxln dns no por

Sh-gry/dk gry

Ls-crm/tan f/mxln dns no por

Sh-gry/dk gry

Ls-crm/tan fxln dns no por

Ls-crm/tan/lt gry fxln mhd/dns no por

Ls-tan/gry mxln sm blky mhd sl fos pr inter xln por nsfo or gas

Sh-gry/dk gry

Ls-tan/gry f/mxln dns sl fos no por

Sh-gry/dk gry

Ls-crm/lt tan fxln mhd clky pr inter xln por nsfo or gas

Ls-AA

Ls-crm/tan/lt gry fxln dns no por

Ls-AA

Ls-crm/tan fxln mhd no por

Sh-gry/dk gry

Ls-lt gry/tan fxln dns no por

Ls-lt gry/crm f/mxln mhd fr inter xln por nsfo or gas

Sh-gry/dk gry

Ls-lt gry/crm fxln dns no por

Sh-gry/dk gry

Ls-lt gry/tan f/mxln dns no por

Sh-gry/dk gry

Ls-lt gry/tan f/mxln mhd fr inter xln por nsfo or gas

Ls-lt gry/tan fxln dns no por

Ls-lt gry/tan f/mxln mhd fr inter xln por nsfo or gas

Ls-lt gry/tan/brn f/mxln dns no por

Ls-AA

Ls-lt gry/tan fxln dns no por

Ls-gry/tan/brn f/mxln mhd pr inter xln por nsfo or gas

Ls-AA

Ls-gry/tan f/mxln mhd no por

Ls-AA

Sh-blk carb

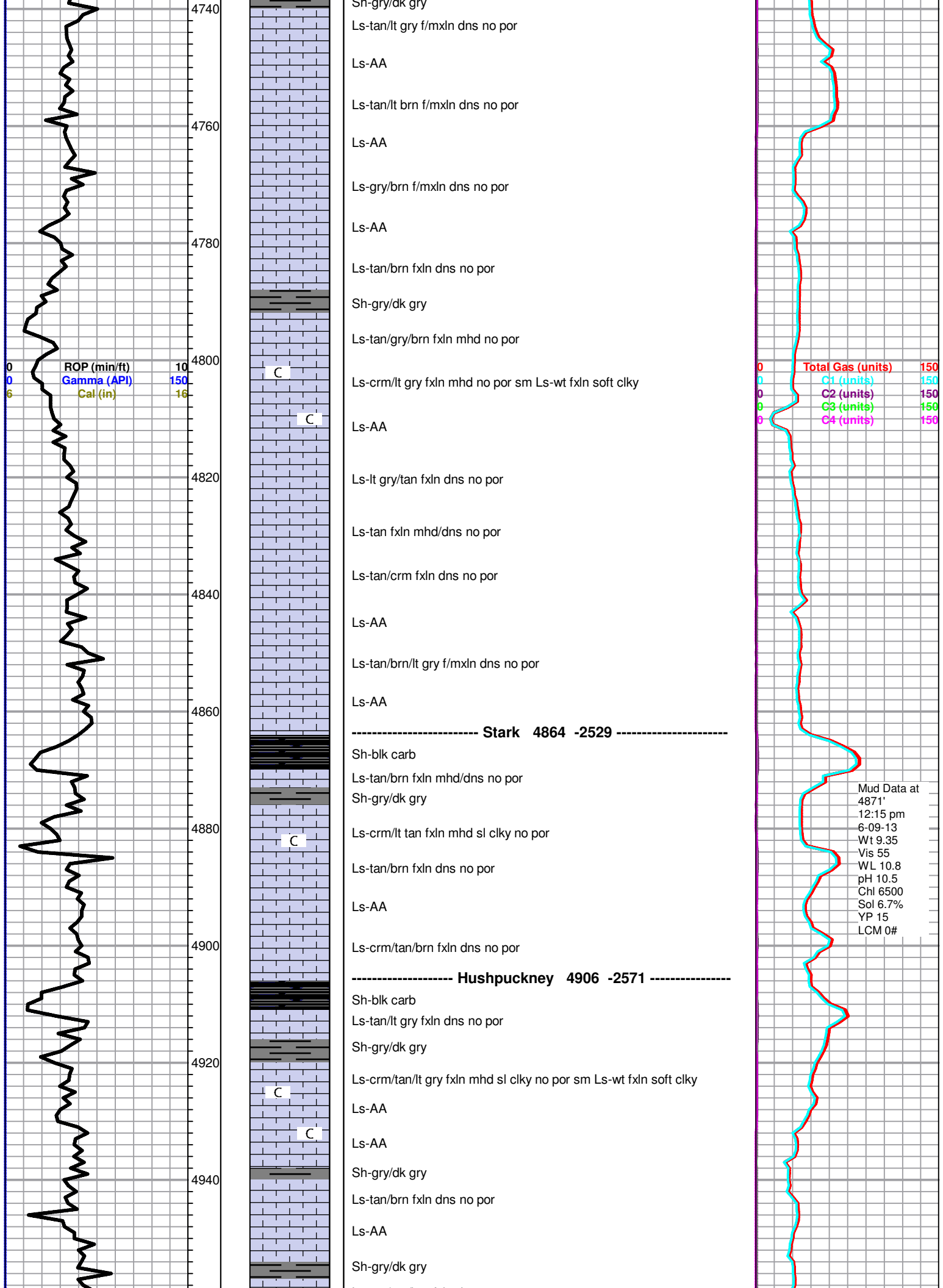
Ls-tan/gry f/mxln mhd no por

Sh-gry/dk gry

Ls-tan/crm/lt gry fxln mhd/dns no por

Sh-gry/dk gry

Ls-tan/crm fxln dns no por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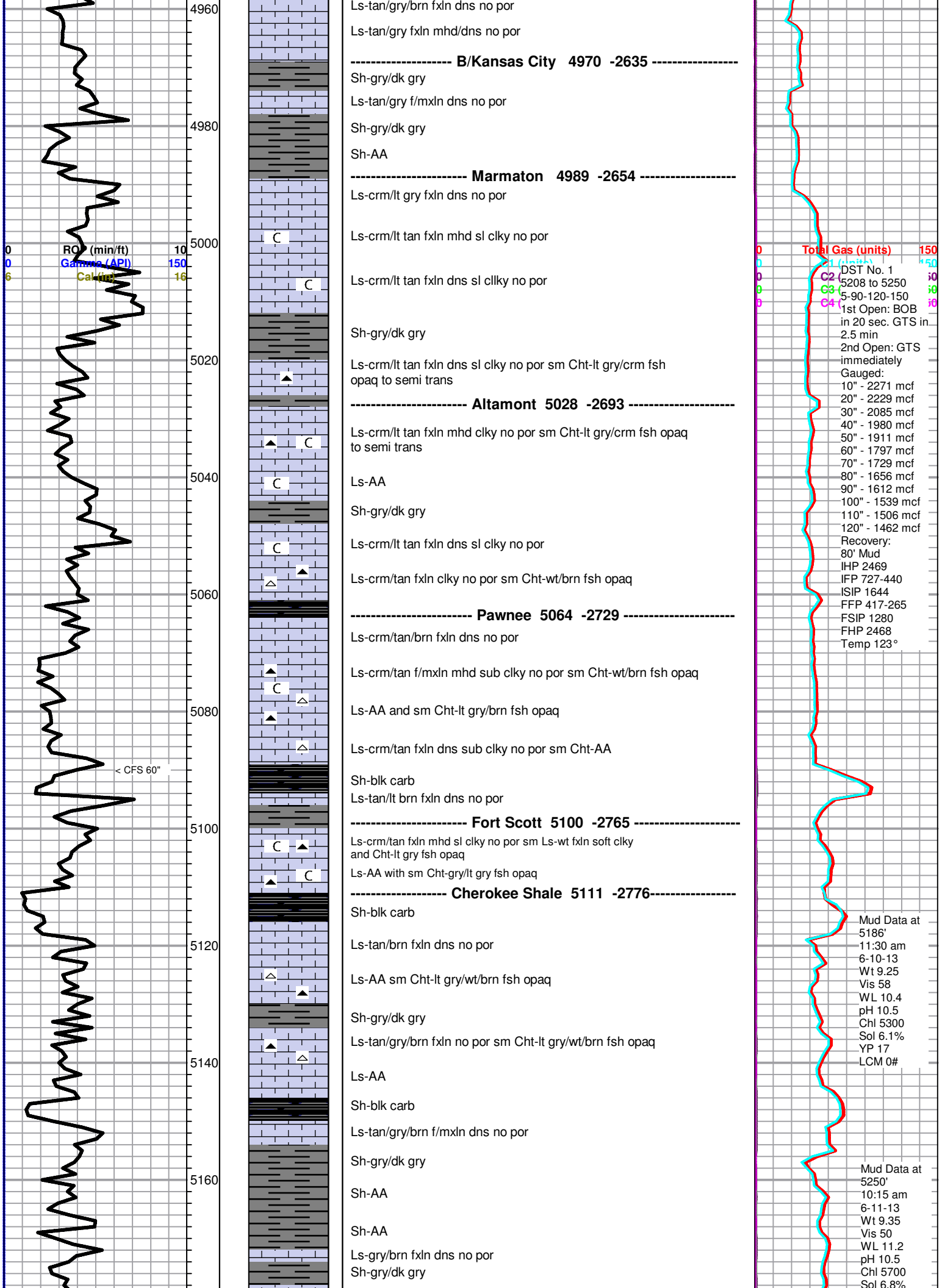
0 Gamma (API) 150
6 Cal (in) 16
4740
4760
4780
4800
4820
4840
4860
4880
4900
4920
4940
C
C
C
C
Sh-gry/dk gry
Ls-tan/lt gry f/mxln dns no por
Ls-AA
Ls-tan/lt brn f/mxln dns no por
Ls-AA
Ls-gry/brn f/mxln dns no por
Ls-AA
Ls-tan/brn fxln dns no por
Sh-gry/dk gry
Ls-tan/gry/brn fxln mhd no por
Ls-crm/lt gry fxln mhd no por sm Ls-wt fxln soft clky
Ls-AA
Ls-lt gry/tan fxln dns no por
Ls-tan fxln mhd/dns no por
Ls-tan/crm fxln dns no por
Ls-AA
Ls-tan/brn/lt gry f/mxln dns no por
Ls-AA
---------- Stark 4864 -2529 ----------
Sh-blk carb
Ls-tan/brn fxln mhd/dns no por
Sh-gry/dk gry
Ls-crm/lt tan fxln mhd sl clky no por
Ls-tan/brn fxln dns no por
Ls-AA
Ls-crm/tan/brn fxln dns no por
---------- Hushpuckney 4906 -2571 ----------
Sh-blk carb
Ls-tan/lt gry fxln dns no por
Sh-gry/dk gry
Ls-crm/tan/lt gry fxln mhd sl clky no por sm Ls-wt fxln soft clky
Ls-AA
Ls-AA
Sh-gry/dk gry
Ls-tan/brn fxln dns no por
Ls-AA
Sh-gry/dk gry
0 Total Gas (units) 150
0 C1 (units) 150
0 C2 (units) 150
0 C3 (units) 150
0 C4 (units) 150
Mud Data at
4871'
12:15 pm
6-09-13
Wt 9.35
Vis 55
WL 10.8
pH 10.5
Chl 6500
Sol 6.7%
YP 15
LCM 0#



Ls-tan/gry/brn fxln dns no por

Ls-tan/gry fxln mhd/dns no por

---------- **B/Kansas City 4970 -2635** ----------

Sh-gry/dk gry

Ls-tan/gry f/mxln dns no por

Sh-gry/dk gry

Sh-AA

---------- **Marmaton 4989 -2654** ----------

Ls-crm/lt gry fxln dns no por

Ls-crm/lt tan fxln mhd sl clky no por

Ls-crm/lt tan fxln dns sl cllky no por

Sh-gry/dk gry

Ls-crm/lt tan fxln dns sl clky no por sm Cht-lt gry/crm fsh opaq to semi trans

---------- **Altamont 5028 -2693** ----------

Ls-crm/lt tan fxln mhd clky no por sm Cht-lt gry/crm fsh opaq to semi trans

Ls-AA

Sh-gry/dk gry

Ls-crm/lt tan fxln dns sl clky no por

Ls-crm/tan fxln clky no por sm Cht-wt/brn fsh opaq

---------- **Pawnee 5064 -2729** ----------

Ls-crm/tan/brn fxln dns no por

Ls-crm/tan f/mxln mhd sub clky no por sm Cht-wt/brn fsh opaq

Ls-AA and sm Cht-lt gry/brn fsh opaq

Ls-crm/tan fxln dns sub clky no por sm Cht-AA

Sh-blk carb

Ls-tan/lt brn fxln dns no por

---------- **Fort Scott 5100 -2765** ----------

Ls-crm/tan fxln mhd sl clky no por sm Ls-wt fxln soft clky and Cht-lt gry fsh opaq

Ls-AA with sm Cht-gry/lt gry fsh opaq

---------- **Cherokee Shale 5111 -2776**----------

Sh-blk carb

Ls-tan/brn fxln dns no por

Ls-AA sm Cht-lt gry/wt/brn fsh opaq

Sh-gry/dk gry

Ls-tan/gry/brn fxln no por sm Cht-lt gry/wt/brn fsh opaq

Ls-AA

Sh-blk carb

Ls-tan/gry/brn f/mxln dns no por

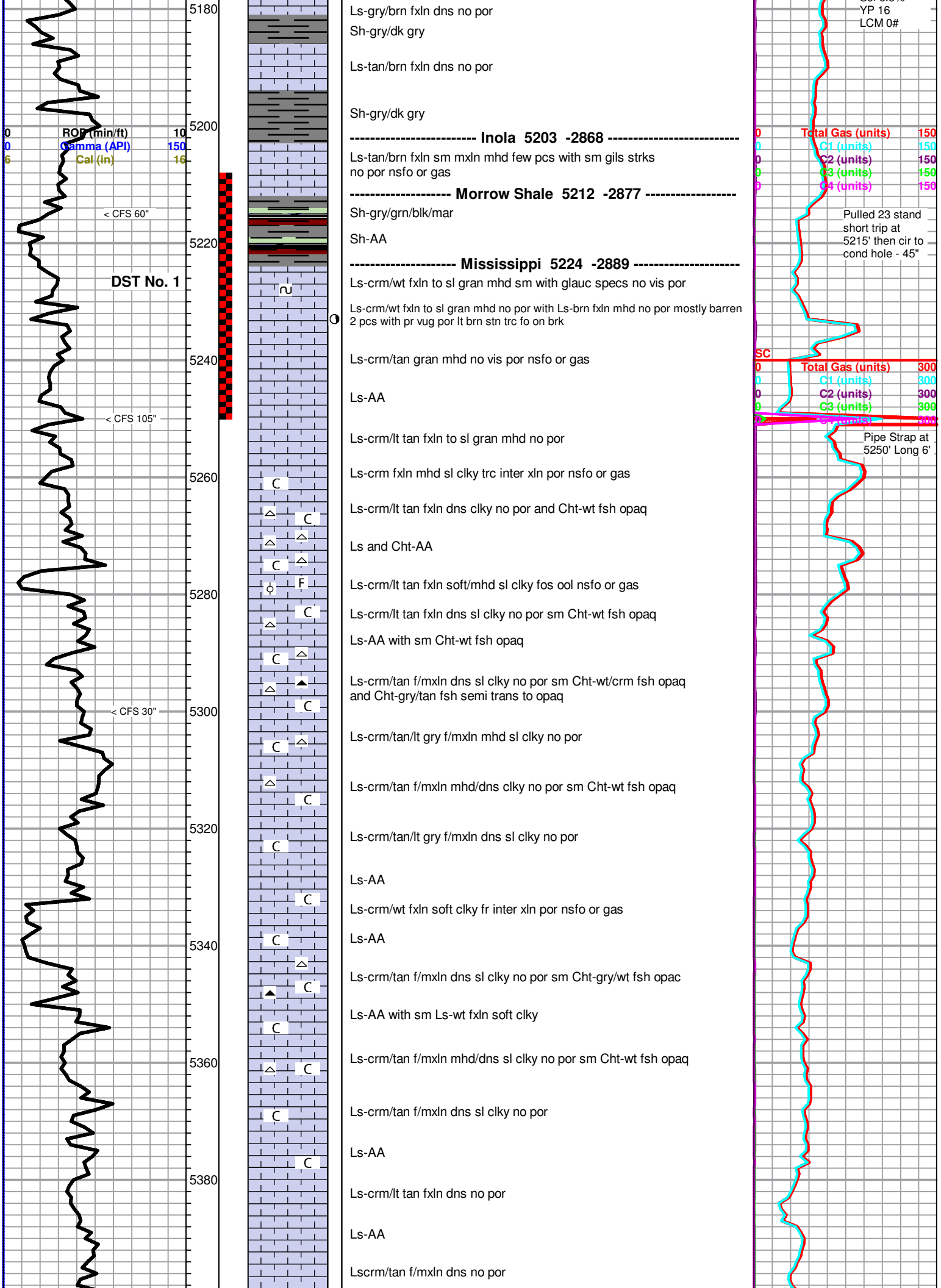
Sh-gry/dk gry

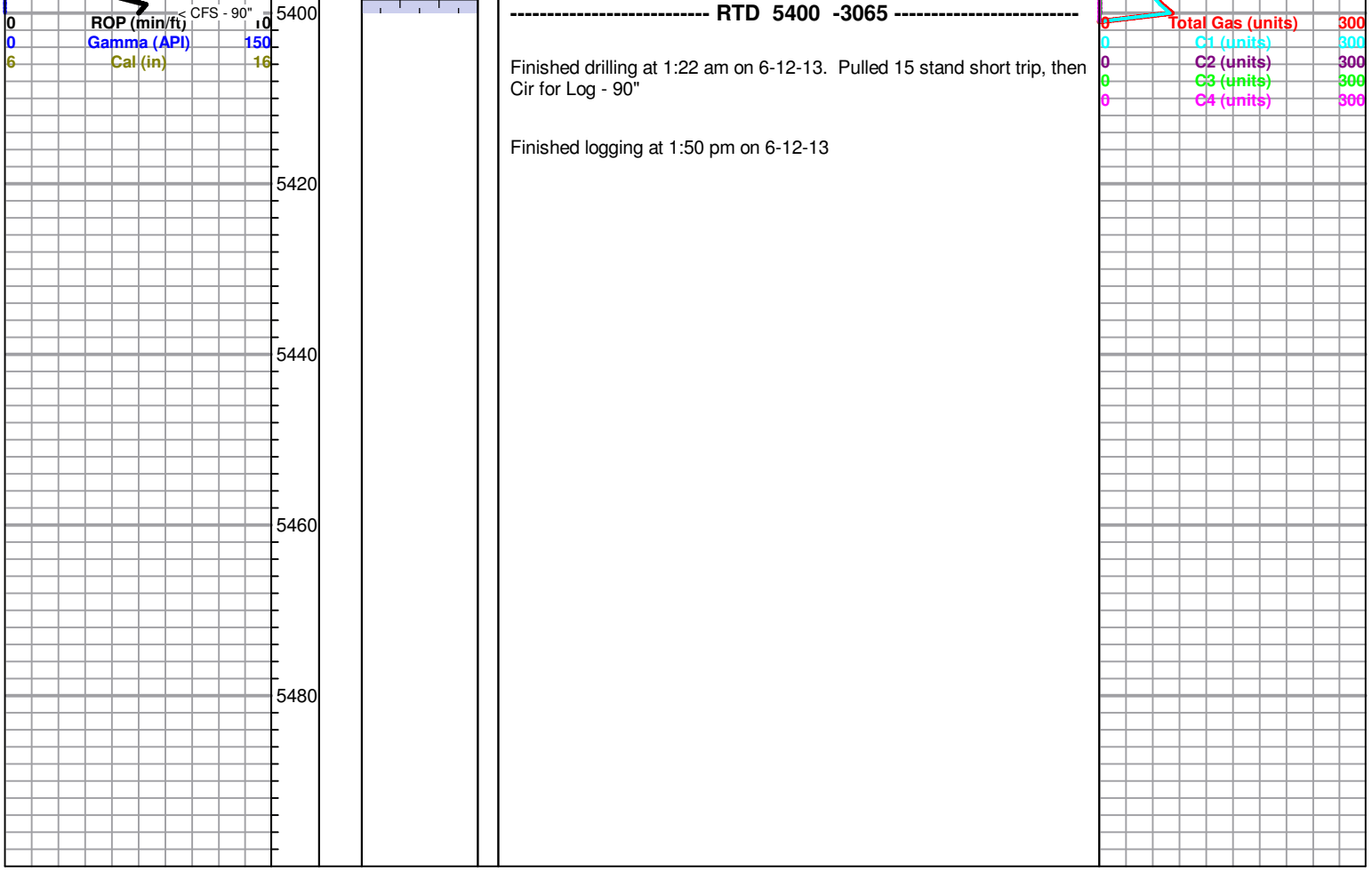
Sh-AA

Sh-AA

Ls-gry/brn fxln dns no por

Sh-gry/dk gry


0 ROP (min/ft) 10
0 Gamma (API) 150
6 Cal (in) 16
5180
5200
5220
5240
5260
5280
5300
5320
5340
5360
5380
< CFS 60"
< CFS 105"
< CFS 30"
DST No. 1
Ls-gry/brn fxln dns no por
Sh-gry/dk gry
Ls-tan/brn fxln dns no por
Sh-gry/dk gry
---------- Inola 5203 -2868 ----------
Ls-tan/brn fxln sm mxln mhd few pcs with sm gils strks
no por nsfo or gas
---------- Morrow Shale 5212 -2877 ----------
Sh-gry/grn/blk/mar
Sh-AA
---------- Mississippi 5224 -2889 ----------
Ls-crm/wt fxln to sl gran mhd sm with glauc specs no vis por
Ls-crm/wt fxln to sl gran mhd no por with Ls-brn fxln mhd no por mostly barren
2 pcs with pr vug por lt brn stn trc fo on brk
Ls-crm/tan gran mhd no vis por nsfo or gas
Ls-AA
Ls-crm/lt tan fxln to sl gran mhd no por
Ls-crm fxln mhd sl clky trc inter xln por nsfo or gas
Ls-crm/lt tan fxln dns clky no por and Cht-wt fsh opaq
Ls and Cht-AA
Ls-crm/lt tan fxln soft/mhd sl clky fos ool nsfo or gas
Ls-crm/lt tan fxln dns sl clky no por sm Cht-wt fsh opaq
Ls-AA with sm Cht-wt fsh opaq
Ls-crm/tan f/mxln dns sl clky no por sm Cht-wt/crm fsh opaq
and Cht-gry/tan fsh semi trans to opaq
Ls-crm/tan/lt gry f/mxln mhd sl clky no por
Ls-crm/tan f/mxln mhd/dns clky no por sm Cht-wt fsh opaq
Ls-crm/tan/lt gry f/mxln dns sl clky no por
Ls-AA
Ls-crm/wt fxln soft clky fr inter xln por nsfo or gas
Ls-AA
Ls-crm/tan f/mxln dns sl clky no por sm Cht-gry/wt fsh opac
Ls-AA with sm Ls-wt fxln soft clky
Ls-crm/tan f/mxln mhd/dns sl clky no por sm Cht-wt fsh opaq
Ls-crm/tan f/mxln dns sl clky no por
Ls-AA
Ls-crm/lt tan fxln dns no por
Ls-AA
Lscrm/tan f/mxln dns no por
YP 16
LCM 0#
0 Total Gas (units) 150
0 C1 (units) 150
0 C2 (units) 150
0 C3 (units) 150
0 C4 (units) 150
Pulled 23 stand
short trip at
5215' then cir to
cond hole - 45"
SC
0 Total Gas (units) 300
0 C1 (units) 300
0 C2 (units) 300
0 C3 (units) 300
Pipe Strap at
5250' Long 6'


CFS - 90"
0
ROP (min/ft)
10
0
Gamma (API)
150
6
Cal (in)
16
5400
5420
5440
5460
5480
---------- RTD 5400 -3065 ----------
Finished drilling at 1:22 am on 6-12-13. Pulled 15 stand short trip, then Cir for Log - 90"
Finished logging at 1:50 pm on 6-12-13
0
Total Gas (units)
300
0
C1 (units)
300
0
C2 (units)
300
0
C3 (units)
300
0
C4 (units)
300