

Confidentiality Requested:

Yes  No

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

**Form must be Typed**

**Form must be Signed**

**All blanks must be Filled**

**WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Clapp, Carl O. III dba Clapp Oil
Well Name	OLSEN C-1
Doc ID	1665124

All Electric Logs Run

Microlog
Density log
Dual induction
Geo report



Elite Cementing & Acidizing of KS, LLC  
 PO Box 92  
 Eureka, KS 67045



Date	Invoice #
8/11/2022	6624

Bill To	
Clapp Oil Trey Clapp 32334 262nd Rd Cedar Vale, KS 67024	
Customer ID#	1094

Job Date	8/10/2022
Lease Information	
Olsen C #1	
County	Cowley
Foreman	KM

Item	Description	Qty	Terms	Net 15
			Rate	Amount
C102	Cement Pump-Longstring	1	1,180.00	1,180.00
C107	Pump Truck Mileage (one way)	80	5.00	400.00
C201	Thick Set Cement	120	24.25	2,910.00T
C207	KolSeal	600	0.56	336.00T
C208	Pheno Seal	240	1.55	372.00T
C108B	Ton Mileage-per mile (one way)	528	1.50	792.00
C421	5 1/2" Latch Down Plug	1	285.00	285.00T
C661	5 1/2" AFU Float Shoe	1	364.00	364.00T
C250	5 1/2" Port Collar	1	1,950.00	1,950.00T
C604	5 1/2" Cement Basket	3	278.00	834.00T
C504	5 1/2" Centralizer	12	59.00	708.00T
C781	5 1/2" Stop Collar	1	37.00	37.00T
C222	KCL	2	32.00	64.00T
D101	Discount on Services		-118.61	-118.61
D102	Discount on Materials		-393.00	-393.00T

*We appreciate your business!*

Phone #	Fax #	E-mail
620-583-5561	620-583-5524	rene@elitecementing.com

Send payment to:  
 Elite Cementing & Acidizing of KS, LLC  
 PO Box 92  
 Eureka, KS 67045

<b>Subtotal</b>	\$9,720.39
<b>Sales Tax (6.5%)</b>	\$485.36
<b>Total</b>	\$10,205.75
Payments/Credits	\$0.00
<b>Balance Due</b>	\$10,205.75

Elite Cementing & Acidizing of KS, LLC  
 PO Box 92  
 Eureka, KS 67045



Date	Invoice #
8/30/2022	6585

Bill To	
Clapp Oil Trey Clapp 32334 262nd Rd Cedar Vale, KS 67024	
Customer ID#	1094

Job Date	8/26/2022
Lease Information	
Olsen C #1	
County	Cowley
Foreman	DG

Item	Description	Qty	Terms	Net 15
			Rate	Amount
C104	Cement Pump-Port Collar	1	1,180.00	1,180.00
C107	Pump Truck Mileage (one way)	80	5.00	400.00
C203	Pozmix Cement 60/40	200	15.75	3,150.00T
C206	Gel Bentonite	1,030	0.30	309.00T
C208	Pheno Seal	400	1.55	620.00T
C108B	Ton Mileage-per mile (one way)	688	1.50	1,032.00
C117	Squeeze Manifold Rent	1	115.00	115.00T
D101	Discount on Services		-130.60	-130.60
D102	Discount on Materials		-203.95	-203.95T
D103	Discount on Eq Rent		-5.75	-5.75T

*We appreciate your business!*

Phone #	Fax #	E-mail
620-583-5561	620-583-5524	reno@elitecementing.com

Send payment to:  
 Elite Cementing & Acidizing of KS, LLC  
 PO Box 92  
 Eureka, KS 67045

<b>Subtotal</b>	\$6,465.70
<b>Sales Tax (6.5%)</b>	\$258.98
<b>Total</b>	\$6,724.68
Payments/Credits	\$0.00
<b>Balance Due</b>	\$6,724.68

Elite Cementing & Acidizing of KS, LLC  
 PO Box 92  
 Eureka, KS 67045



Date	Invoice #
8/10/2022	6620

<b>Bill To</b>	
Clapp Oil Trey Clapp 32334 262nd Rd Cedar Vale, KS 67024	
Customer ID#	1094

Job Date	8/6/2022
Lease Information	
Olsen C #1	
County	Cowley
Foreman	KM

Item	Description	Qty	Terms	Net 15
			Rate	Amount
C101	Cement Pump-Surface	1	950.00	950.00
C107	Pump Truck Mileage (one way)	80	5.00	400.00
C200	Class A Cement-94# sack	190	18.55	3,524.50T
C205	Calcium Chloride	535	0.75	401.25T
C206	Gel Bentonite	360	0.30	108.00T
C209	Flo-Seal	50	2.80	140.00T
C108B	Ton Mileage-per mile (one way)	714.4	1.50	1,071.60
D101	Discount on Services		-121.08	-121.08
D102	Discount on Materials		-208.69	-208.69T

*We appreciate your business!*

Phone #	Fax #	E-mail
620-583-5561	620-583-5524	rene@elitecementing.com

Send payment to:  
 Elite Cementing & Acidizing of KS, LLC  
 PO Box 92  
 Eureka, KS 67045

<b>Subtotal</b>	\$6,265.58
<b>Sales Tax (6.5%)</b>	\$257.73
<b>Total</b>	\$6,523.31
Payments/Credits	\$0.00
<b>Balance Due</b>	\$6,523.31

## LOCATION AND LEGALS DATA

### WellSight Systems

Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: Olsen C-1  
API: 15-035-24766  
Location: S1-T35N-R7E (NW/4)  
License Number: 34563  
Spud Date: 8/5/2022  
Surface Coordinates: 660' North & 690' East of the center of section  
Region: Osage County, OK  
Drilling Completed: 8/9/2022

Bottom Hole  
Coordinates:  
Ground Elevation (ft): 1248'      K.B. Elevation (ft): N/A  
Logged Interval (ft): Surface To: 2888'      Total Depth (ft): 2888'  
Formation: Mississippi Chat  
Type of Drilling Fluid: Chemical

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

### OPERATOR

Company: Clapp Oil  
Address: 27064 309th Rd  
Ceder Vale, KS 67024

### GEOLOGIST

Name: Brandon Wolfe  
Company:  
Address: 1016 N Biddle St  
Moline, KS 67353

### CONTRACTOR

Drilling Rig: C&G Drilling Rig 2  
Drilling FLuids: C&G Drilling  
Open Hole Logs: Osage Wireline

### COMMENTS











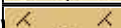


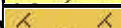






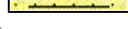
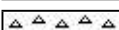

5 1/2" Casing was ran to bottom and cemented in place with cement to futher evaluate the Mississippi Formation. Note: Ran port-collar to get cement to surface.



FormationSample TopsLog Tops

Oread Lime	1044' (+204)	1039' (+209)
Iatan	1345' (-97)	1340' (-92)
Stalanker	1357' (-109)	1354' (-106)
Perry Lime	1657' (-409)	1653' (-405)
Perry Sand	1661' (-413)	1657' (-409)
Layton	1830' (-582)	1826' (-578)
Lower Layton	1871' (-623)	1868' (-620)
Redd Sand	2048' (-800)	2044' (-796)
Lenapah	2238' (-990)	2234' (-986)
Cleveland	2273' (-1025)	2270' (-1022)
Big Lime	2312' (-1064)	2309' (-1061)
Altamont	2344' (-1096)	2339' (-1091)
Pawnee	2391' (-1143)	2387' (-1139)
Fort Scott	2445' (-1197)	2440' (-1192)
Cherokee	2513' (-1265)	2507' (-1259)
Mississippi Chat	2740' (-1492)	2739' (-1491)

## ROCK TYPES

	Anhydrite		Shaly_ss_ii		Cherty_dolo		Qtz_wash
	Arkose		Sandstone		Dolomite		Qtz_wash_ii
	Ark_shale		Shaly_limy_ss		Limy_dolo		Argil_qtz_wash
	Granite		Washy_limy_ss		Conglomerate		Ark_qtz_wash
	Coal		Limy_ss		Carb_wash		Sdy_gw
	Limy_sh		Sdy_ls		Sdy_carb_wash		Shaly_gw
	Shale		Limestone		Shaly_sdy_carb		Gw_a
	Hot_shale		Dolo_ls		Shaly_limy_qtz_w		Gw_b
	Hot_shale_ii		Shaly_ls		Shaly_limy_qtz_w		Gw_c
	Siltstone		Carb_shaly_ls		Limy_qtz_wash		Gw_d
	Siltstone_ii		Cherty_ls		Limy_qtz_wash_ii		
	Shaly_ss		Chert		Limy_qtz_wash_iii		

## ACCESSORIES

### POROSITY

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

### LITHOLOGY

- Anhydrite
- Arkose
- Ark\_shale
- Granite
- Coal
- Limy\_sh
- Shale
- Hot\_shale
- Hot\_shale\_ii
- Siltstone
- Siltstone\_ii
- Shaly\_ss
- Shaly\_ss\_ii
- Sandstone
- Shaly\_limy\_ss
- Washy\_limy\_ss
- Limy\_ss
- Sdy\_ls
- Limestone
- Dolo\_ls
- Shaly\_ls
- Carb\_shaly\_ls

- Cherty\_ls
- Chert
- Cherty\_dolo
- Dolomite
- Limy\_dolo
- Conglomerate
- Carb\_wash
- Sdy\_carb\_wash
- Shaly\_sdy\_carb\_wash
- Shaly\_limy\_qtz\_wash
- Shaly\_limy\_qtz\_wash\_ii
- Limy\_qtz\_wash
- Limy\_qtz\_wash\_ii
- Limy\_qtz\_wash\_iii
- Qtz\_wash
- Qtz\_wash\_ii
- Argil\_qtz\_wash
- Ark\_qtz\_wash
- Sdy\_gw
- Shaly\_gw
- Gw\_a
- Gw\_b
- Gw\_c
- Gw\_d

### FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal

- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

### MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin

- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

### TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

### OIL SHOW

- Gas show
- Even
- Spotted
- Ques
- Dead

## Sample Descriptions

**Lower Layton 1871' (-623)  
1871'-1885'**

Sandstone - grey to light brown tent, fine to medium grain, well sorted, moderately cemented, friable, sub angular, kaolinite, chalky, calc matrix, mica & carb inculsions, good intergranular porosity, live oil stain throughout, great show of free oil with gas bubbles, fast streaming cut heavy residual ring, up to 50% green yellow fluorescence, strong rich odor.

**Redd Sand/Doods Creek 2048' (-800)  
2048'-2060'**

Sandstone - grey to brown tent, fine to medium grain, moderately sorted, well cemented, sub angular, calc matrix, mica & glauconite, carb inclusions, shaley in parts, good intergranular porosity, good live stain, fair show of free oil, good crush cut w/ residual ring, 30% green fluorescence, strong odor.

**Pawnee/Oswego 2391' (-1143)  
2355'-2365'**

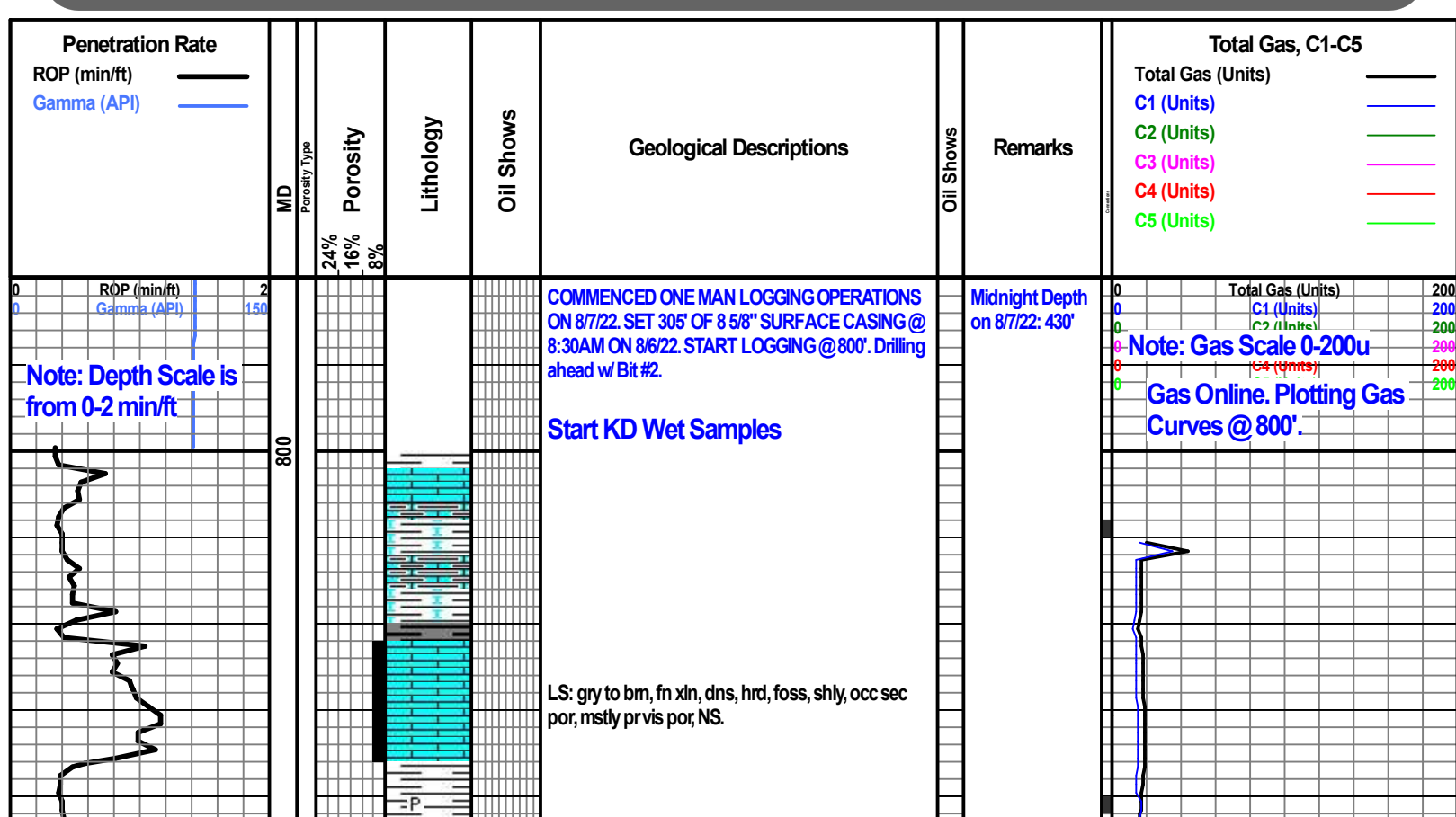
Limestone: light brown to buff, medium crystalline, dense, highly weathered heavy recrystallixation, heavy silica crystalline inclusions, occasional fresh chert, occasional dolomitic sandy texture, pyrite, great intercrystalline & vugular porosity, heavy live stain throughout, great show of free oil, fast streaming cut with heavy residual ring, 80%-90% bright green fluorescence, strong rich odor.

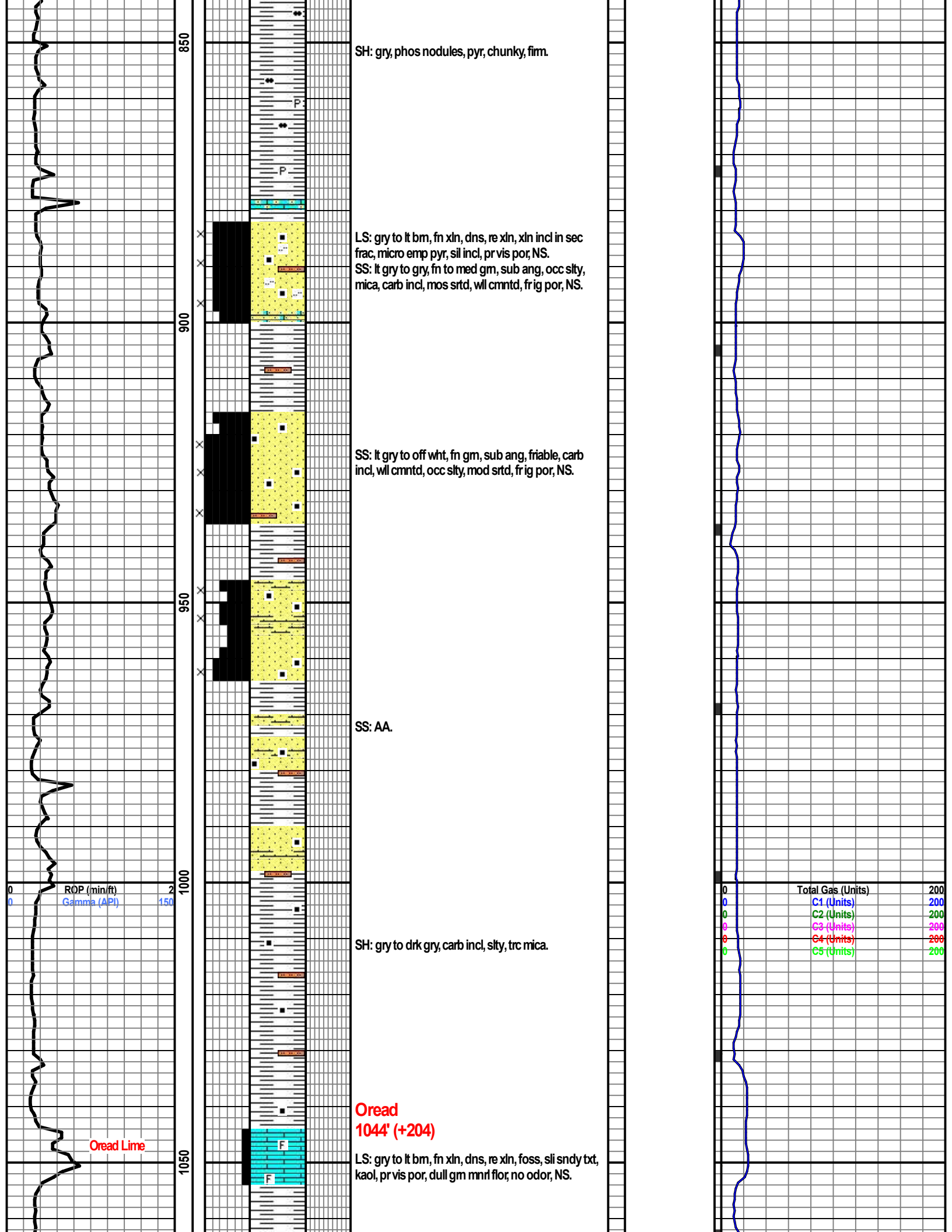
**Mississippi Chat 2740' (-1432)  
2740'-2760'**

Chert - off white to cream to various browns to lt gry mott, opaque, highly reworked and weathered, occasionally some hard fresh white chert, dolomitic Limestone, heavy pyr, calc/glac/phos minerals, silica inclusions, secondary fractures, sulfur great tripolitic and vugular porosity, good live stain throughout, great show of free oil with gas bubbles, fast milky cut with heavy residual ring, up to 50% bright yellow green fluorescence, strong odor.

**2786'-2840'**

Merrimack Cherty Limestone - off white to cream to various browns mott to occ gry, medium crystalline, highly wethered, heavy recrystallixation with crystalline inclusions, sandy and dolomitic in parts, laminated black streaks, highly laminated with reworked and weathered chert, occasionally some hard fresh white blue chert, heavy calc/slic/glac/phos/pyr minerals, great tripolitic and intercrystalline porosity, occasional vugular porosity, good stain throughout, great show of free oil, fast streaming cut with heavy residual ring, mostly 30% yellow green blue fluorescence, one spot up to 70% fluorescence, strong odor.





850  
900  
950  
1000  
1050

SH: gry, phos nodules, pyr, chunky, firm.

LS: gry to lt bm, fn xln, dns, re xln, xln incl in sec frac, micro emp pyr, sil incl, pr vis por, NS.  
 SS: lt gry to gry, fn to med gm, sub ang, occ sily, mica, carb incl, mos srted, wll cmntd, frig por, NS.

SS: lt gry to off wht, fn gm, sub ang, friable, carb incl, wll cmntd, occ sily, mod srted, frig por, NS.

SS: AA.

SH: gry to drk gry, carb incl, sily, trc mica.

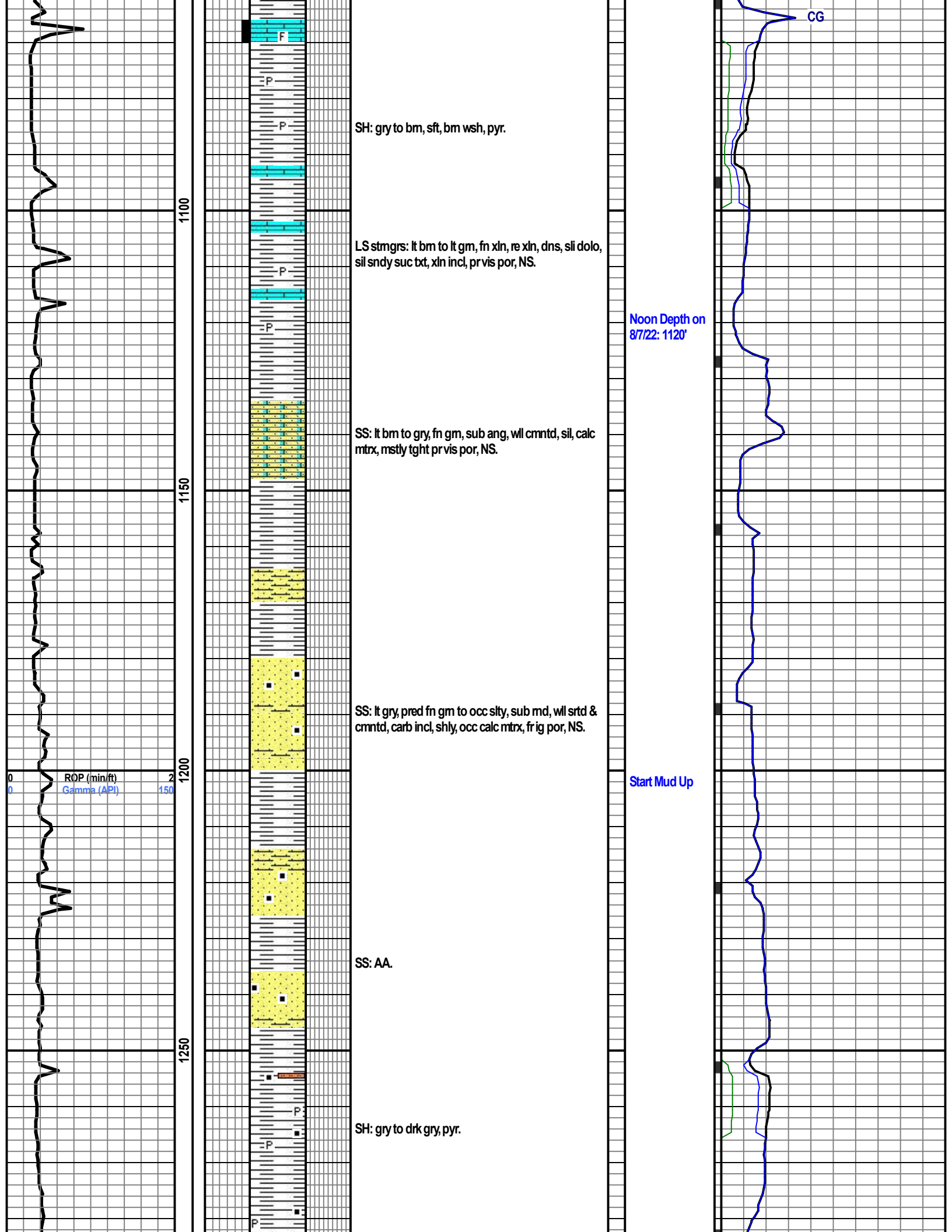
Oread  
 1044' (+204)

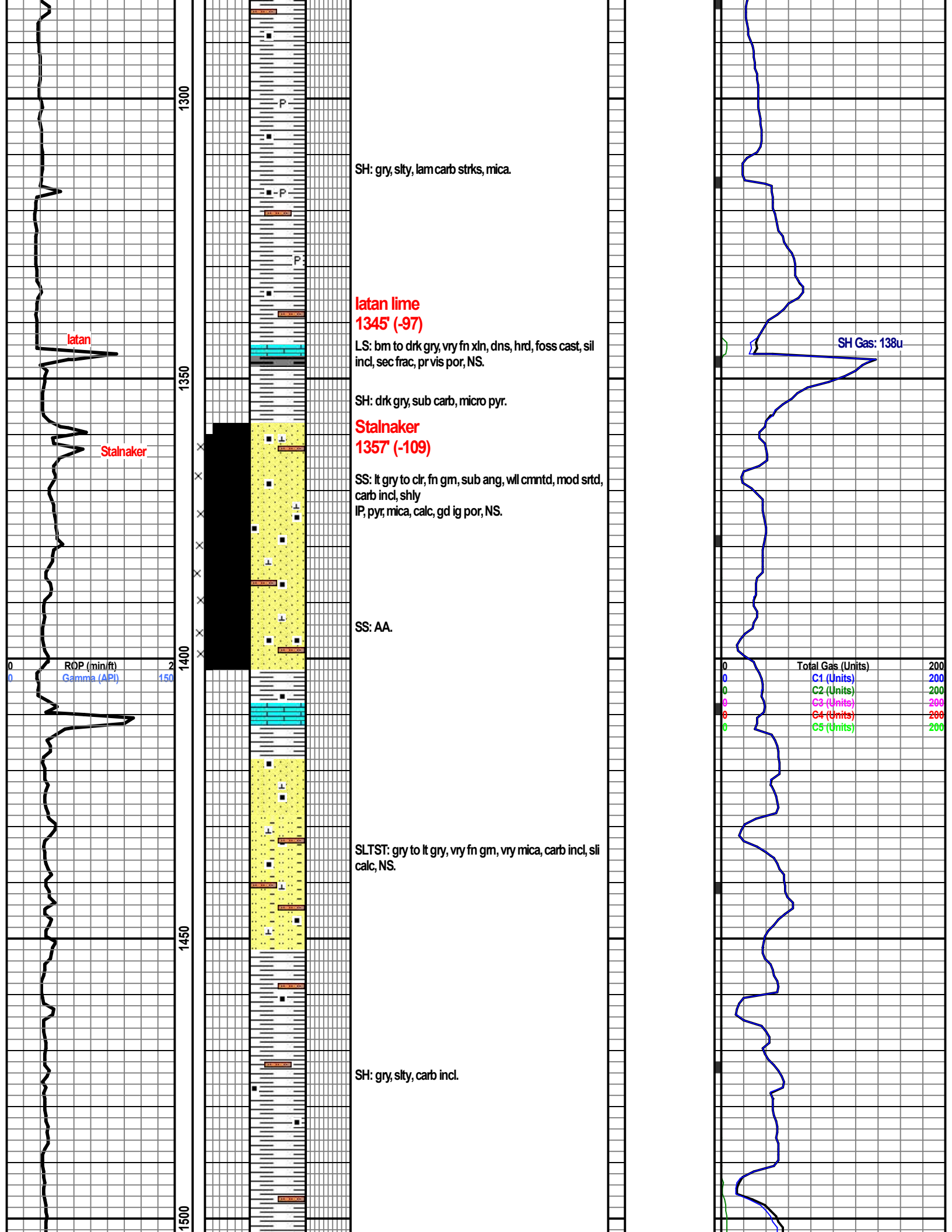
LS: gry to lt bm, fn xln, dns, re xln, foss, sli sndy txt, kaol, pr vis por, dull gm mnrl flr, no odor, NS.

ROP (min/ft)  
 Gamma (API)

Total Gas (Units)  
 C1 (Units)  
 C2 (Units)  
 C3 (Units)  
 C4 (Units)  
 C5 (Units)

Oread Lime





1300  
1350  
1400  
1450  
1500

SH: gry, slty, lam carb strks, mica.

**latan lime**  
1345' (-97)

LS: bm to drk gry, vry fn xln, dns, hrd, foss cast, sil incl, sec frac, pr vis por, NS.

SH: drk gry, sub carb, micro pyr.

**Stalnaker**  
1357' (-109)

SS: lt gry to clr, fn gm, sub ang, wll cmntd, mod srtcd, carb incl, shly IP, pyr, mica, calc, gd ig por, NS.

SS: AA.

SLTST: gry to lt gry, vry fn gm, vry mica, carb incl, sli calc, NS.

SH: gry, slty, carb incl.

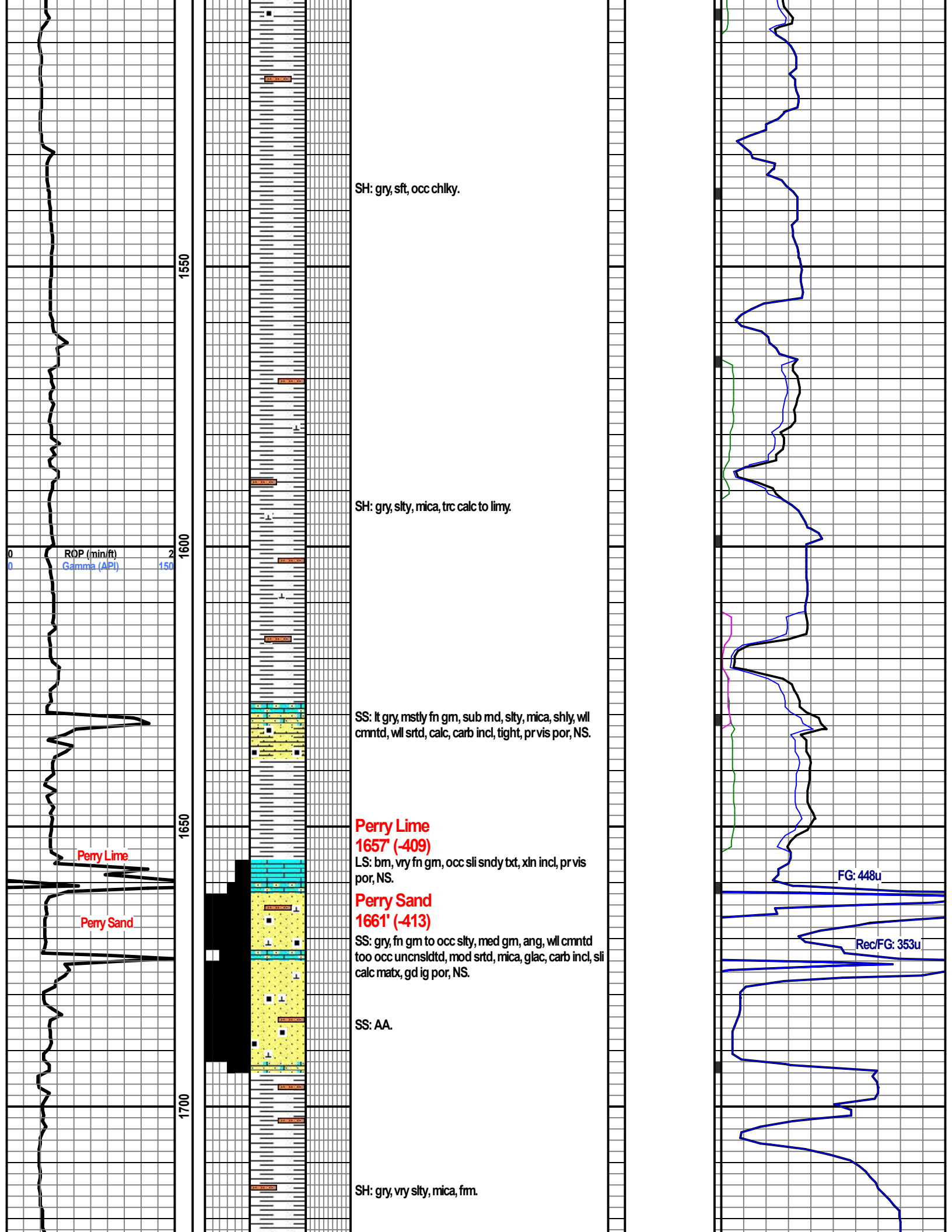
latan

Stalnaker

SH Gas: 138u

ROP (min/ft)  
Gamma (API)

Total Gas (Units)	200
C1 (Units)	200
C2 (Units)	200
C3 (Units)	200
C4 (Units)	200
C5 (Units)	200



SH: gry, sft, occ chlky.

1550

SH: gry, slty, mica, trc calc to limy.

1600

ROP (min/ft)  
Gamma (API)

SS: lt gry, mstly fn gm, sub md, slty, mica, shly, wl cmntd, wl srted, calc, carb incl, tight, pr vis por, NS.

1650

Perry Lime

**Perry Lime**  
1657' (-409)  
LS: bm, vry fn gm, occ sli sndy txt, xln incl, pr vis por, NS.

FG: 448u

Perry Sand

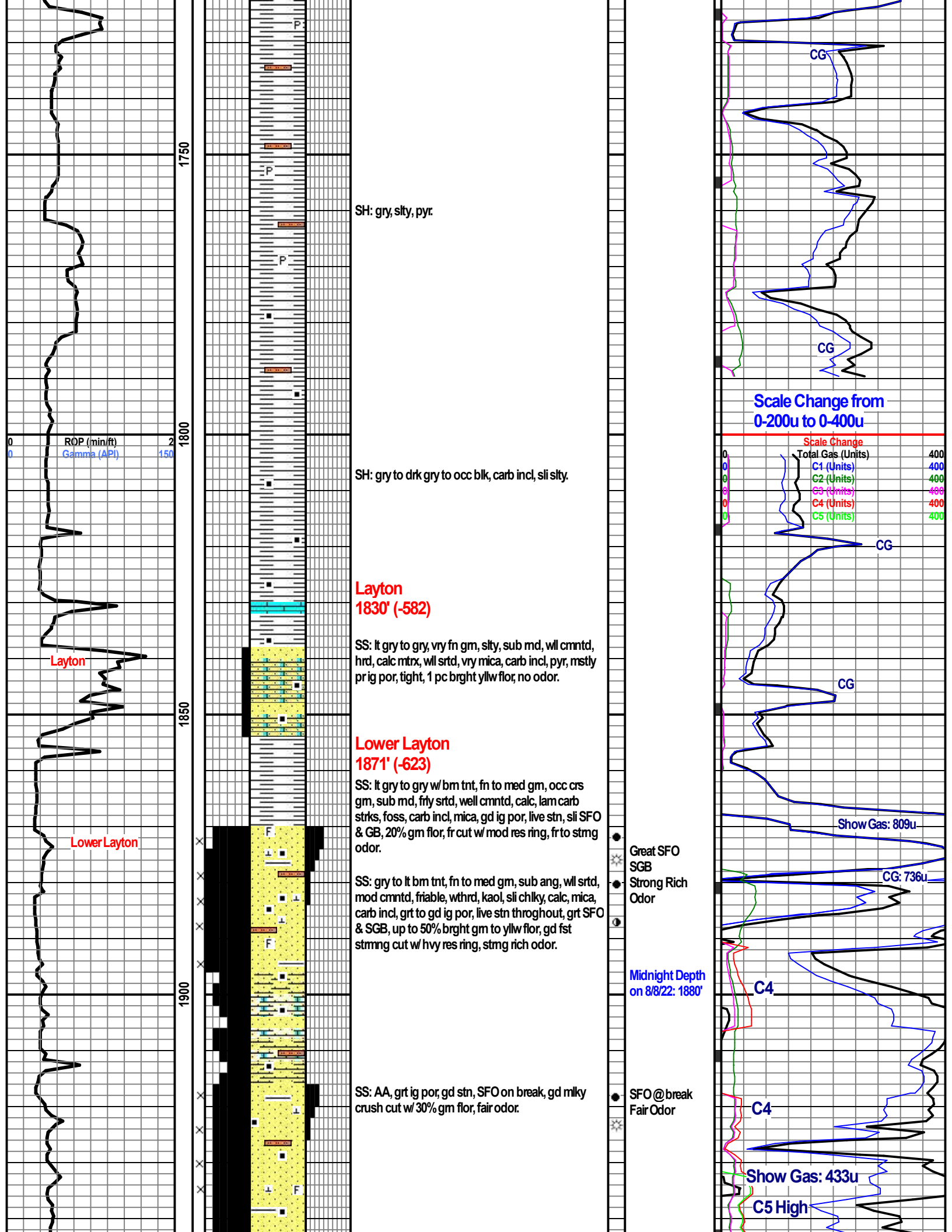
**Perry Sand**  
1661' (-413)  
SS: gry, fn gm to occ slty, med gm, ang, wl cmntd too occ uncnsltd, mod srted, mica, glac, carb incl, sli calc matx, gd ig por, NS.

RecFG: 353u

1700

SS: AA.

SH: gry, vry slty, mica, frm.



1750

1800

1850

1900

SH: gry, slty, pyr

SH: gry to drk gry to occ blk, carb incl, sli slty.

**Layton**  
1830' (-582)

SS: lt gry to gry, vry fn gm, slty, sub md, wll cmntd, hrd, calc mtrx, wll srtd, vry mica, carb incl, pyr, mstly pr ig por, tight, 1 pc brght yllw flwr, no odor.

**Lower Layton**  
1871' (-623)

SS: lt gry to gry w/ bm tnt, fn to med gm, occ crs gm, sub md, frty srtd, well cmntd, calc, lam carb strks, foss, carb incl, mica, gd ig por, live stn, sli SFO & GB, 20% gm flwr, fr cut w/ mod res ring, fr to stmg odor.

SS: gry to lt bm tnt, fn to med gm, sub ang, wll srtd, mod cmntd, friable, wthrd, kaol, sli chlky, calc, mica, carb incl, grt to gd ig por, live stn throughtout, grt SFO & SGB, up to 50% brght gm to yllw flwr, gd fst stmg cut w/ hvy res ring, stmg rich odor.

SS: AA, grt ig por, gd stn, SFO on break, gd milky crush cut w/ 30% gm flwr, fair odor.

Scale Change from 0-200u to 0-400u

Scale Change	
Total Gas (Units)	400
C1 (Units)	400
C2 (Units)	400
C3 (Units)	400
C4 (Units)	400
C5 (Units)	400

Show Gas: 809u

CG: 736u

Midnight Depth on 8/8/22: 1880'

Show Gas: 433u

C5 High

- Great SFO
- ⊗ SGB
- Strong Rich Odor
- ⊙

- SFO @ break
- ⊗ Fair Odor

Layton

Lower Layton

CG

CG

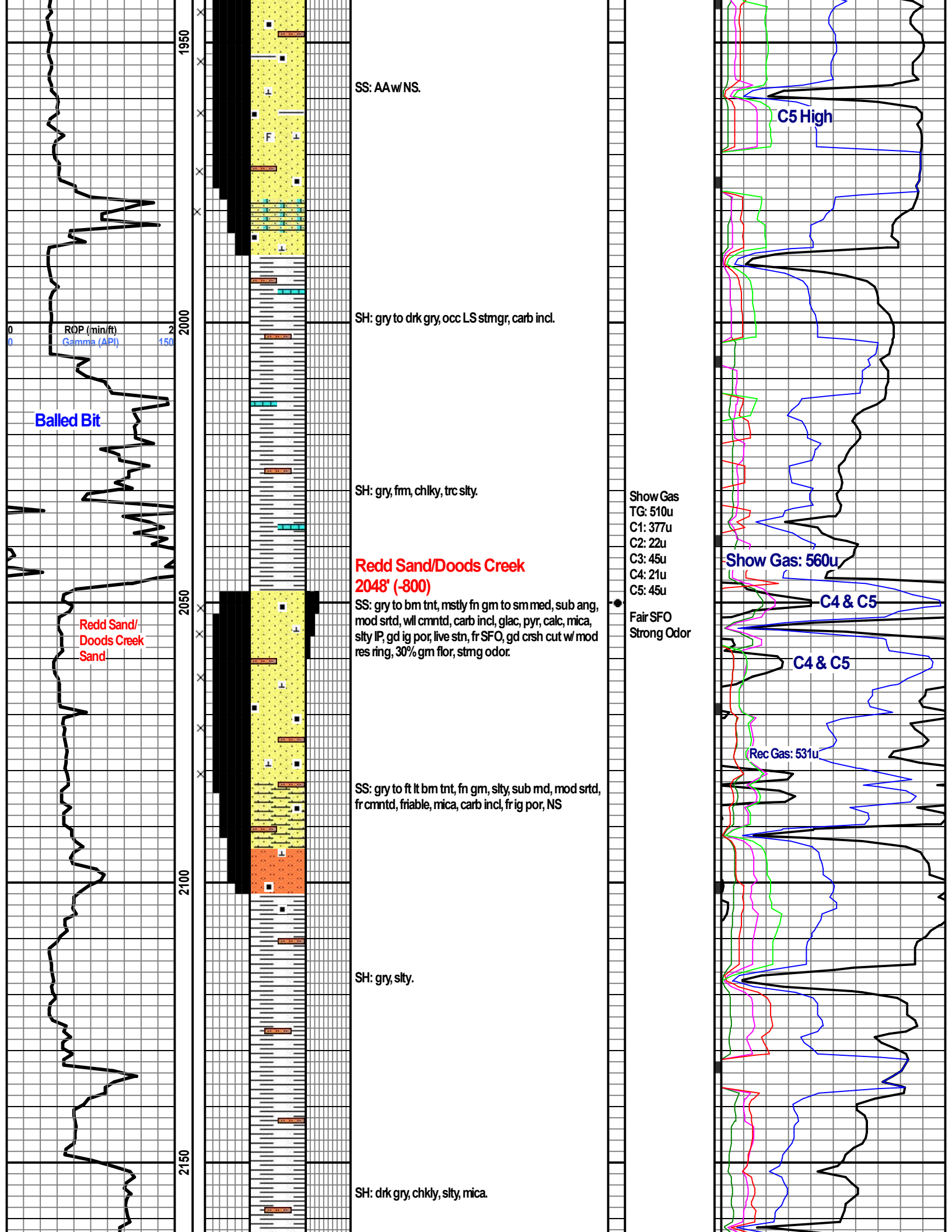
CG

CG

C4

C4





1950  
2000  
2050  
2100  
2150

SS: AAw NS.

SH: gry to drk gry, occ LS stmgr, carb incl.

SH: gry, fm, chlky, trc slty.

**Redd Sand/Doods Creek  
2048' (-800)**

SS: gry to bm tnt, mstly fn gm to sm med, sub ang, mod srted, wl cmntd, carb incl, glac, pyr, calc, mica, slty IP, gd ig por, live str, fr SFO, gd crsh cut w/ mod res ring, 30% gm flor, strng odor.

SS: gry to ft lt bm tnt, fn gm, slty, sub md, mod srted, fr cmntd, friable, mica, carb incl, fr ig por, NS

SH: gry, slty.

SH: drk gry, chkly, slty, mica.

Balled Bit

Redd Sand/  
Doods Creek  
Sand

ROP (min/ft)  
Gamma (API)

C5 High

Show Gas: 560u

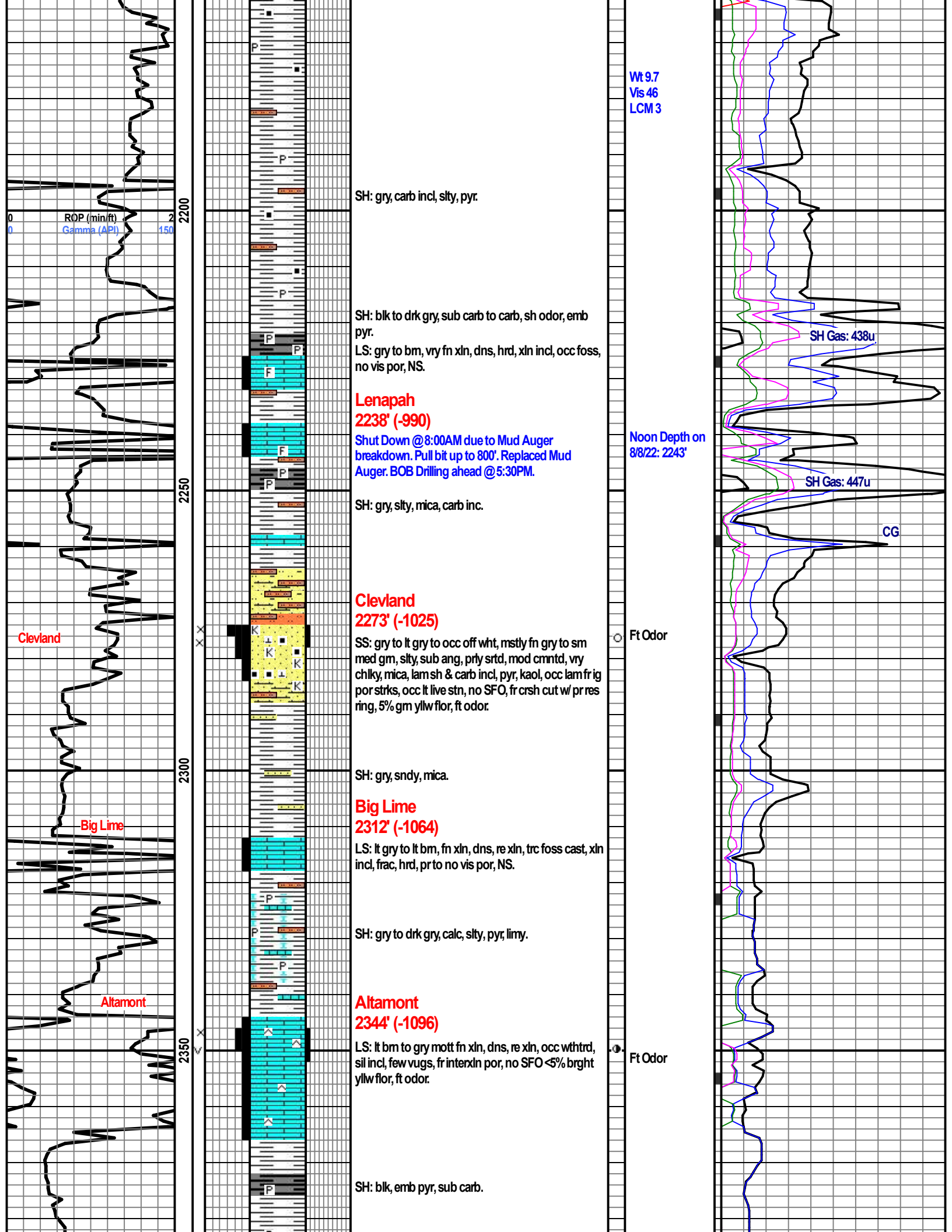
C4 & C5

C4 & C5

Rec Gas: 531u

Show Gas  
TG: 510u  
C1: 377u  
C2: 22u  
C3: 45u  
C4: 21u  
C5: 45u

Fair SFO  
Strong Odor



Wt 9.7  
Vis 46  
LCM 3

SH: gry, carb incl, slty, pyr.

SH: blk to drk gry, sub carb to carb, sh odor, emb pyr.  
LS: gry to bm, vry fn xln, dns, hrd, xln incl, occ foss, no vis por, NS.

**Lenapah**  
**2238' (-990)**  
Shut Down @ 8:00AM due to Mud Auger breakdown. Pull bit up to 800'. Replaced Mud Auger. BOB Drilling ahead @ 5:30PM.

Noon Depth on 8/8/22: 2243'

SH: gry, slty, mica, carb inc.

**Cleveland**  
**2273' (-1025)**  
SS: gry to lt gry to occ off wht, mstly fn gry to sm med gm, slty, sub ang, prly srted, mod cmntd, vry chiky, mica, lam sh & carb incl, pyr, kaol, occ lam fr ig por strks, occ lt live stn, no SFO, fr crsh cut w/ pr res ring, 5% gm yllw flor, ft odor.

Cleveland

○ Ft Odor

SH: gry, sndy, mica.

**Big Lime**  
**2312' (-1064)**  
LS: lt gry to lt bm, fn xln, dns, re xln, trc foss cast, xln incl, frac, hrd, pr to no vis por, NS.

Big Lime

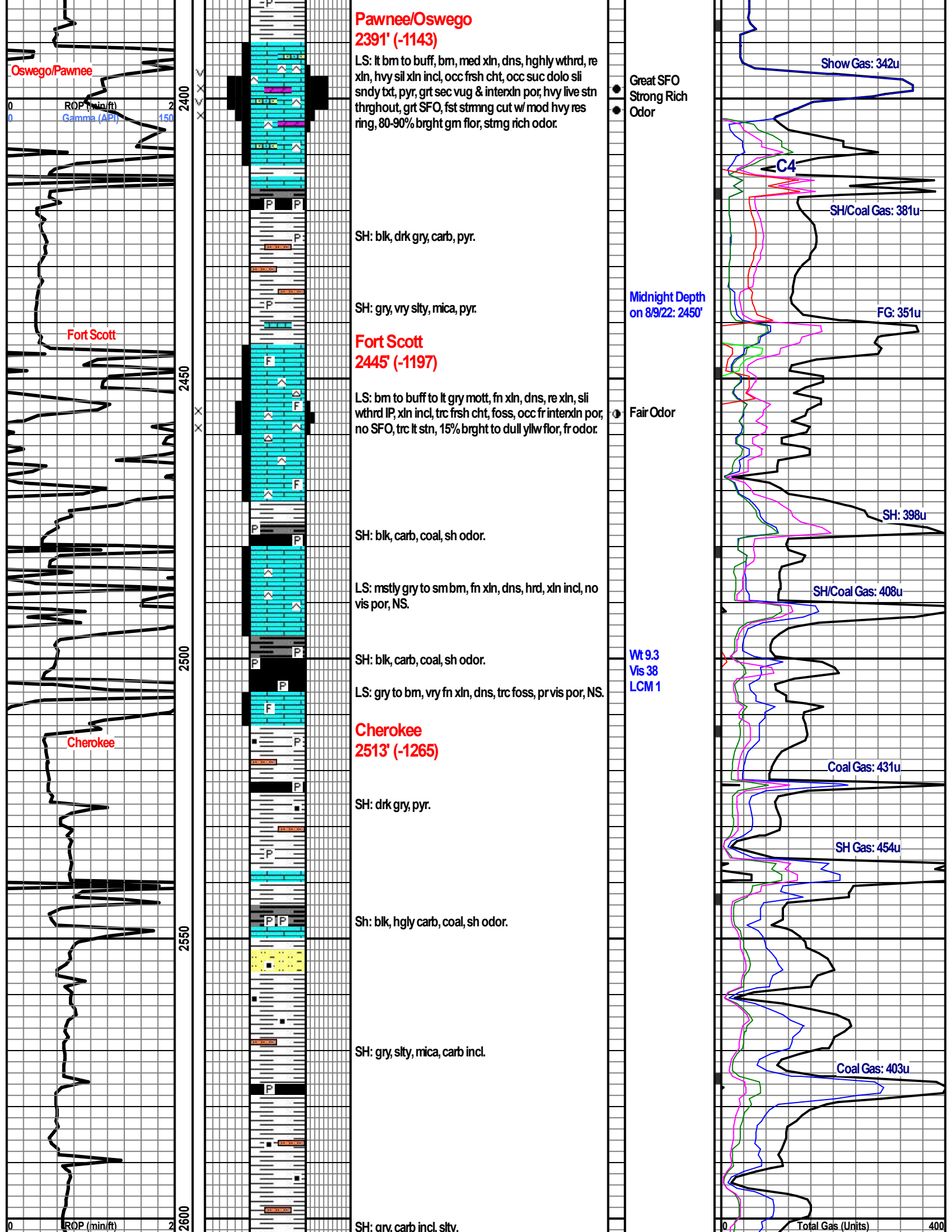
SH: gry to drk gry, calc, slty, pyr, limy.

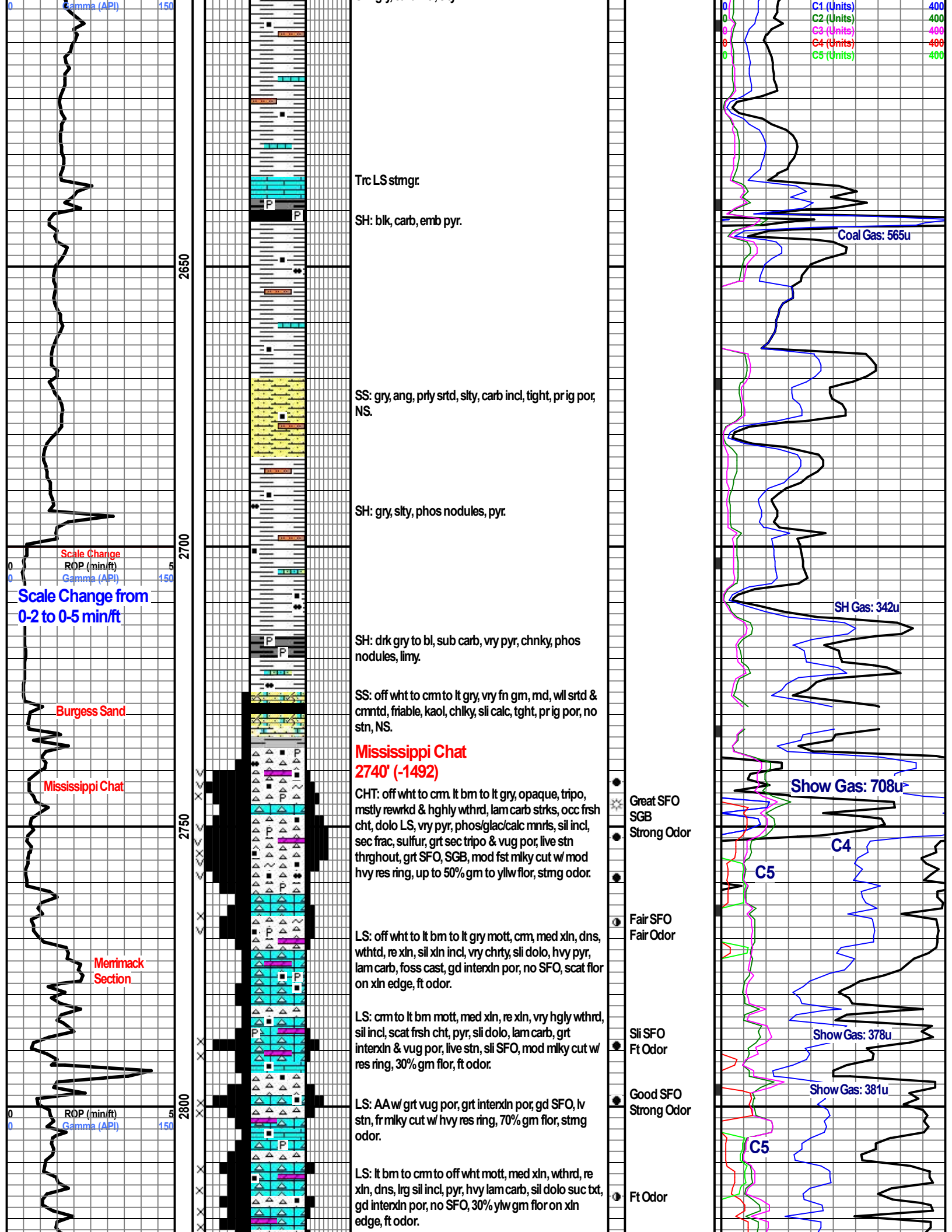
**Altamont**  
**2344' (-1096)**  
LS: lt bm to gry mott fn xln, dns, re xln, occ wthtrd, sil incl, few vugs, fr interxln por, no SFO <5% brght yllw flor, ft odor.

Altamont

○ Ft Odor

SH: blk, emb pyr, sub carb.





C1 (Units) 400  
 C2 (Units) 400  
 C3 (Units) 400  
 C4 (Units) 400  
 C5 (Units) 400

2650

Trc LS stmgr.

SH: blk, carb, emb pyr.

Coal Gas: 565u

2700

Scale Change  
 ROP (min/ft)  
 Gamma (API)

Scale Change from  
 0-2 to 0-5 min/ft

SS: gry, ang, prly srted, slty, carb incl, tight, pr ig por, NS.

SH: gry, slty, phos nodules, pyr.

SH Gas: 342u

Burgess Sand

SH: drk gry to bl, sub carb, vry pyr, chnky, phos nodules, limy.

SS: off wht to cm to lt gry, vry fn gm, md, wl srted & crntd, friable, kaol, chlky, sli calc, tgnt, pr ig por, no stn, NS.

Mississippi Chat  
 2740' (-1492)

Mississippi Chat

CHT: off wht to cm. lt bm to lt gry, opaque, tripo, mstly rewkd & hghly wthrd, lam carb strks, occ frsh cht, dolo LS, vry pyr, phos/glac/calc mnrls, sil incl, sec frac, sulfur, grt sec tripo & vug por, live stn thrghout, grt SFO, SGB, mod fst mlky cut w/ mod hvy res ring, up to 50% gm to yllw flor, stmg odor.

Show Gas: 708u

Great SFO  
 SGB  
 Strong Odor

2750

LS: off wht to lt bm to lt gry mott, cm, med xln, dns, wthtd, re xln, sil xln incl, vry chrt, sli dolo, hvy pyr, lam carb, foss cast, gd interxn por, no SFO, scat flor on xln edge, ft odor.

Fair SFO  
 Fair Odor

Merrimack Section

LS: cm to lt bm mott, med xln, re xln, vry hghly wthrd, sil incl, scat frsh cht, pyr, sli dolo, lam carb, grt interxn & vug por, live stn, sli SFO, mod mlky cut w/ res ring, 30% gm flor, ft odor.

Sli SFO  
 Ft Odor

Show Gas: 378u

2800

LS: AA w/ grt vug por, grt interxn por, gd SFO, lv stn, fr mlky cut w/ hvy res ring, 70% gm flor, stmg odor.

Good SFO  
 Strong Odor

Show Gas: 381u

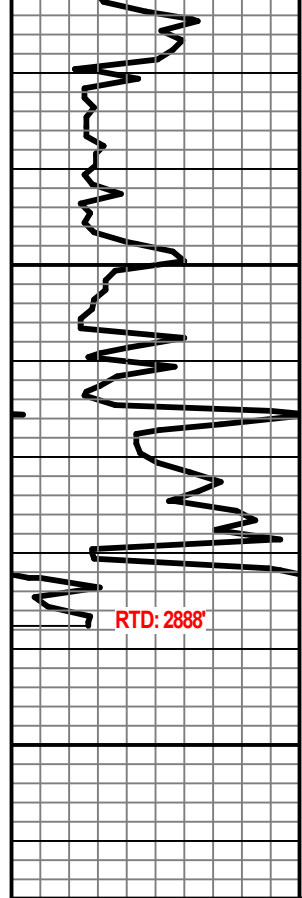
LS: lt bm to cm to off wht mott, med xln, wthrd, re xln, dns, lrg sil incl, pyr, hvy lam carb, sil dolo suc bxt, gd interxn por, no SFO, 30% yllw gm flor on xln edge, ft odor.

Ft Odor

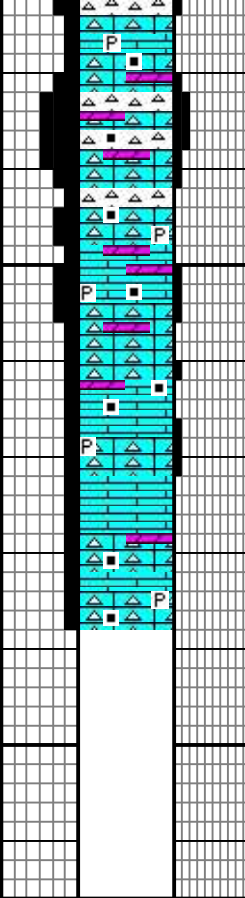
C5

C5

C4



2850  
2900



LS: cm to off wht to lt bm, med xln, re xln, hghly wthrd & rewkd, lrg sil incl, sli dolo, sndy IP, lam carb, ft lv stn, gd interxin por, sli SFO, 20% gm flor, ft odor.

LS: off wht to cm, med to fn xln, dns, re xln, wthrd, frsh cht, dolo, xln incl, pyr/glac mnrl, snd IP, carb lam, occ gd interxin por, no stn, no SFO, up to 10% yllw flor on xln edge, ft odor.

LS: AAwNS.

**RTD 2888' @ 2:30PM on 8/9/22**  
 Circulated for 1 hr. Short Trip to 2200'. Circulated for 1.5 hr. TOOH for logs.  
**LTD 2888' @ 8:00PM on 8/9/22**

● Sli SFO  
 Ft Odor  
 Wt: 9.5  
 Vis 55  
 LCM 1/2  
 ● Ft Odor  
 Noon Depth on 8/9/22: 2870'

