KOLAR Document ID: 1468532

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 # 34878
Name: Lawco Holdings, LLC
Address 1: 113 S MAIN
Address 2: PO BOX 425
City: BENTONVILLE State: AR Zip: 72712 + 0425
Contact Person: James A. Lawson
Phone: (479) 273-2670
CONTRACTOR: License # 8736
Name: Dixon, James David
Wellsite Geologist: Clay Waller
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 #:

7/29/2019 Spud Date or Recompletion Date
8/08/2019 Date Reached TD
8/13/2019 Completion Date or Recompletion Date

API No.: 15-035-24710-00-00
Spot Description:
SE - NW - SW - SE Sec. 5 Twp. 33 S. R. 7 ☑ East ☐ West
680 Feet from ☐ North / ☑ South Line of Section
2130 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Cowley
Lease Name: RADCLIFF Well #: 7-5
Field Name:
Producing Formation: N/A
Elevation: Ground: 1267 Kelly Bushing: 1280
Total Vertical Depth: 4136 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 338 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: 1200 ppm Fluid volume: 1400 bbls
Dewatering method used: Evaporated
Location of fluid disposal if hauled offsite:
Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. ☐ East ☐ West
County: Permit #:

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

Submitted Electronically

KCC Office Use ONLY
☐ **Confidentiality Requested**
Date: 08/16/2019
☐ **Confidential Release Date:** 08/15/2021
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 08/19/2019

Operator Name: Lawco Holdings, LLC Lease Name: RADCLIFF Well #: 7-5

Sec. 5 Twp. 33 S. R. 7 ☑ East ☐ West County: Cowley

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 *(Attach Additional Sheets)*	☐ Yes	☑ No
Samples Sent to Geological Survey	☐ Yes	☑ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geologist Report / Mud Logs	☑ Yes	☐ No

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
Surface	17	13.375	48	338	Class A	325	915# caclz @3%; 610# gel @2%; 80# Fl
Conductor	12.25	9.625	36	3240	60/40 Pozmix; Class A	650	2580# gel 6%; 1000# Phenoseal 2#/sk; 2

ADDITIONAL CEMENTING / SQUEEZE RECORD

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

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

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

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top / Bottom

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Lawco Holdings, LLC
Well Name	RADCLIFF 7-5
Doc ID	1468532

All Electric Logs Run

Sonic Log
Gamma Ray/CCL/Radial Cement Bond
Compensated Density Micro
Composit
Dual Induction

Form	ACO1 - Well Completion
Operator	Lawco Holdings, LLC
Well Name	RADCLIFF 7-5
Doc ID	1468532

Tops

Name	Top	Datum
Stalnaker	1632	1267
Perry	1788	1267
Hog Shooter	1914	1267
Altamont	2408	1267
Pawnee	2486	1267
Fort Scott	2524	1267
Mississippian Chat	2815	1267
Meramecian	2844	1267
Woodford	3218	1267
Arbuckle	3266	1267

Form	ACO1 - Well Completion
Operator	Lawco Holdings, LLC
Well Name	RADCLIFF 7-5
Doc ID	1468532

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	17	13.375	48	338	Class A	325	915# caclz @3%; 610# gel @2%; 80# Floseal @ 1/4#/sk
Conductor	12.25	9.625	36	3240	60/40 Pozmix; Class A	650	2580# gel 6%; 1000# Phenoseal 2#/sk; 280# gel 2%; 140# Caclz 1%; 50#CFL-115 1/3%;110# CFL-115 1/4%

810 E 7TH
PO Box 92
EUREKA, KS 67045
(620) 583-5561

ELITE
CEMENTING & ACID SERVICE, LLC

Cement or Acid Field Report
Ticket No. **4614**
Foreman David Gardner
Camp Eureka

API # 15-035-24710

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
7-30-19	1136	Radcliff # 7-5	5	33 S.	7 E.	Cowley	KS

Customer: Lawco Holding, LLC
Mailing Address: P.O. Box 4125
City: Bentonville | State: AR | Zip Code: 72712

Safety Meeting: DG, JH, CG, SM

Unit #	Driver	Unit #	Driver
105	Jason		
114	Caleb		
115	Steve		

Job Type Surface | Hole Depth 346' K.B. | Slurry Vol. 82 Bbl | Tubing
Casing Depth 338' K.B. | Hole Size 17" | Slurry Wt. 15# | Drill Pipe
Casing Size & Wt. 13 3/8" 48# | Cement Left in Casing 50' +/- | Water Gal/SK 6.5 | Other
Displacement 45 1/4 Bbl | Displacement PSI | Bump Plug to | BPM

Remarks: Safety Meeting. Rig up to 13 3/8" casing. Break circulation w/ 15 Bbl fresh water. Mixed 325 sks Class 'A' Cement w/ 3% CaCl2, 2% Gel, 4 1/4# Floseal/sk @ 15#/gal, yield 1.35 = 82 Bbl slurry. Displace w/ 45 1/4 Bbl fresh water. Good circulation @ all times while cementing. Good cement returns to surface = 45 Bbl good cement slurry to pit. Close 13 3/8" casing in. Job complete. Rig down.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C101	1	Pump Charge 1st of 2 wells	890.00	890.00
C107	70	Mileage	4.20	294.00
C200	325 sks	Class 'A' Cement	15.75	5,118.75
C205	915#	CaCl2 @ 3%	.63	576.45
C206	610#	Gel @ 2%	.21	128.10
C209	80#	Floseal @ 1/4#/sk	2.35	188.00
C108B	15.275 Tons	Ton Mileage - Bulk Trucks	1.40	1,496.95
		Thank You	Sub Total	8,692.25
			Less 5%	454.15
		6.5%	Sales Tax	390.73
			Total	8,628.83

Authorization _____ Title _____

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

810 E 7TH
PO Box 92
EUREKA, KS 67045
(620) 583-5561

ELITE
CEMENTING & ACID SERVICE, LLC

Cement or Acid Field Report
Ticket No. **4682**
Foreman Kevin McCoy / David Gardner
Camp Eureka

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
8-5-19	1136	Ratcliff # 7-5				Cowley	Ks

Customer: Lawco Holding LLC
Mailing Address: P.O. Box 425
City: Bentonville | State: AR | Zip Code: 72712

Safety Meeting: KM DG AM JH SM CG JV

Unit #	Driver	Unit #	Driver
104	Alan M.		
105	Jason H.		
112	Josh V.		
*113	Zevi A.		
114	Steve M.		

Job Type Longstring
Casing Depth 3240'
Casing Size & Wt. 9 5/8" 36#
Displacement 255.5 Bbl
Hole Depth 3275'
Hole Size 12 1/4"
Cement Left in Casing 42'
Displacement PSI 1500
Slurry Vol. 150 Bbl Lead / 38 Bbl Tail
Slurry Wt. 13.3 - 14.6 #
Water Gal/SK
Bump Plug to 2000 PSI
Tubing
Drill Pipe
Other
BPM

Remarks: Safety Meeting: Rig up to 9 5/8" Casing. Break Circulation w/ 20 Bbl Fresh water. Mixed 500 sks 60/40 Pozmix Cement w/ 6% Gel, 2# PhenoSeal /sk, 1/4% CFL-115 @ 13.3# yield 1.70 = 150 Bbl Slurry. Tail in w/ 150 sks Class "A" Cement w/ 2% Gel, 1% CaCl2, 1/3% CFL-115, 2# PhenoSeal /sk @ 14.6 #/gal, yield 1.42 = 38 Bbl Slurry. (Mixing Rate 6 BPM) Wash out Pump & Lines. Release Plug. Displace Plug to Seat w/ 255.5 Bbl Fresh water @ 10.5 BPM. (Last 10 Bbl @ 4 BPM). Final Pumping Pressure 1500 PSI. Bump Plug to 2000 PSI. Wait 1 minute. Release Pressure. Float Held. Shut in @ 0 PSI. 1.5 Bbl Cement to Pit. Job Complete. Rig down.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 102	1	Pump Charge #104	1100.00	1100.00
C 107	70	Mileage	4.20	294.00
C 102	1	Pump Charge #105	1100.00	1100.00
C 108 B	28.55 Tons	Ton Mileage 70 miles	1.40	2797.90
C 203	500 sks	60/40 Pozmix Cement (Lead Cement)	13.40	6700.00
C 206	2580#	Gel 6% (Lead Cement)	.21 #	541.80
C 208	1000#	PhenoSeal 2#/sk (Lead Cement)	1.30 #	1300.00
C 211	110#	CFL-115 1/4% (Lead Cement)	11.00 #	1210.00
C 200	150 sks	Class "A" Cement (Tail Cement)	15.75	2362.50
C 206	280#	Gel 2% (Tail Cement)	.21 #	58.80
C 205	140#	CaCl2 1% (Tail Cement)	.63 #	88.20
C 211	50#	CFL-115 1/3% (Tail Cement)	11.00 #	550.00
C 694	1	9 5/8 Guide Shoe	436.00	436.00
C 407	1	9 5/8 Top Rubber Plug	157.00	157.00
C 250	1	9 5/8 AFU Float Collar	655.00	655.00
C 607	2	9 5/8 Cement Baskets	341.00	682.00
C 507	10	9 5/8 x 12 1/4 Centralizers	74.00	740.00
			Sub Total	20,000.20
			less 5%	1,047.81
		THANK You	Sales Tax 6.5%	956.04
			Total	19,908.43

Authorization _____ Title _____

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

WALLER WELL LOGGING LLC

WellSight Systems

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

Well Name:	**RADCLIFF #7-5**		
API:			
Location:	**SE/4 SEC 5 - 33S - 7E COWLEY CO., KANSAS**		
License Number:		**Region:**	
Spud Date:	**7/30/19**	**Drilling Completed:**	**8/8/19**
Surface Coordinates:			
Bottom Hole Coordinates:			
Ground Elevation (ft):	**1267'**	**K.B. Elevation (ft):**	**1280'**
Logged Interval (ft):	**850'** **To: 4136'**	**Total Depth (ft):**	**4136'**
Formation:	**ARBUCKLE**		
Type of Drilling Fluid:	**CHEMICAL GEL, FRESH WATER**		

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

OPERATOR

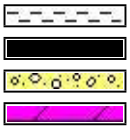
Company: LAWCO HOLDINGS LLC
Address: 113 S. MAIN
PO BOX 425
BENTONVILLE, ARKANSAS 72742

GEOLOGIST

Name: CLAY WALLER/BRENT JUHNKE
Company: WALLER WELL LOGGING, LLC
Address: 805 W. MAINE
ENID, OKLAHOMA 73701

ROCK TYPES


Anhy
Bent
Brec
Cht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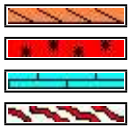
Congl
Dol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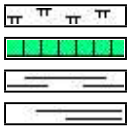
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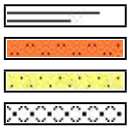

Shgy
Sltst
Ss
Till

ACCESSORIES

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

FOSSIL
- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

STRINGER
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

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

OTHER SYMBOLS

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

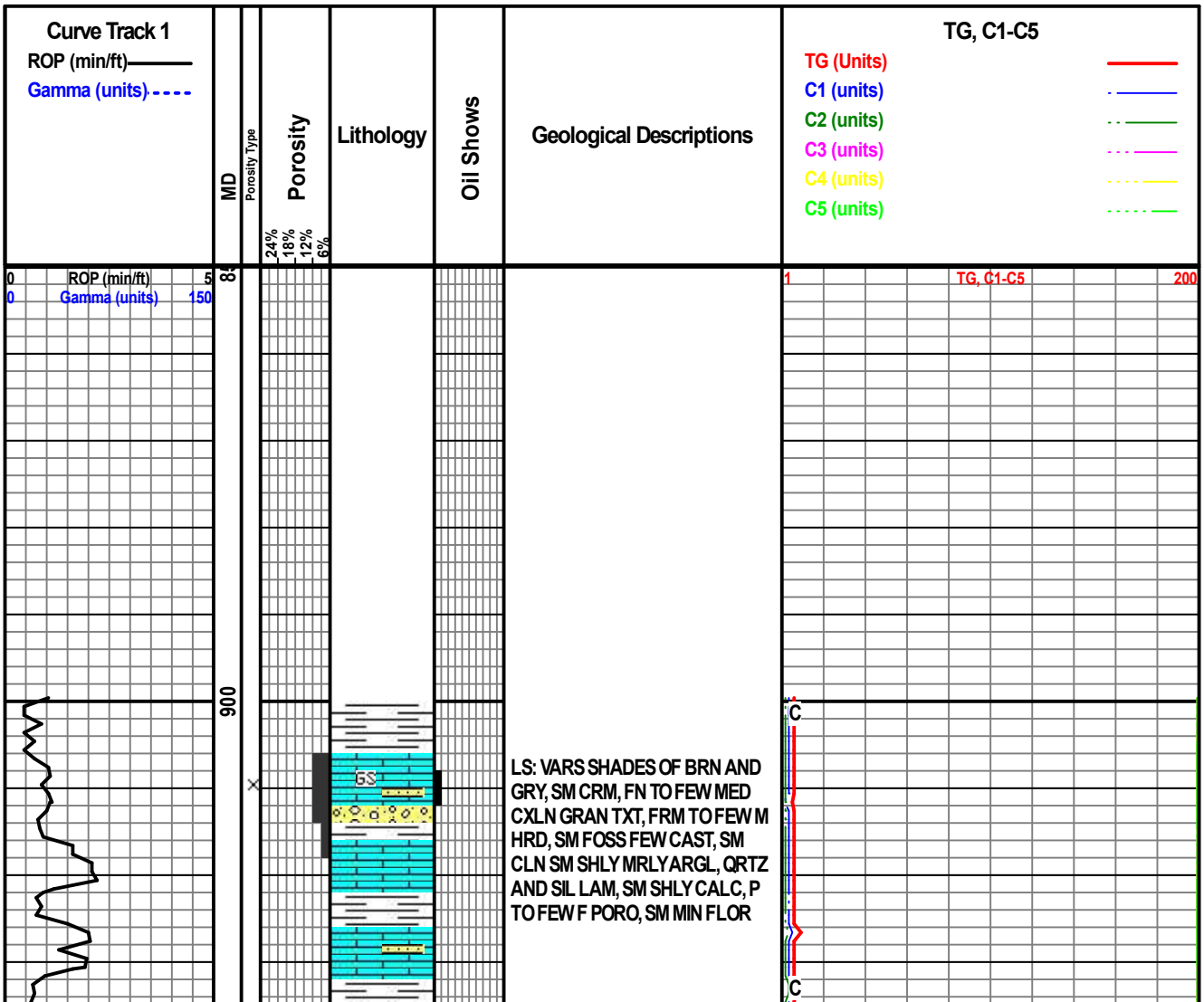
SORTING
- Well
- Moderate
- Poor

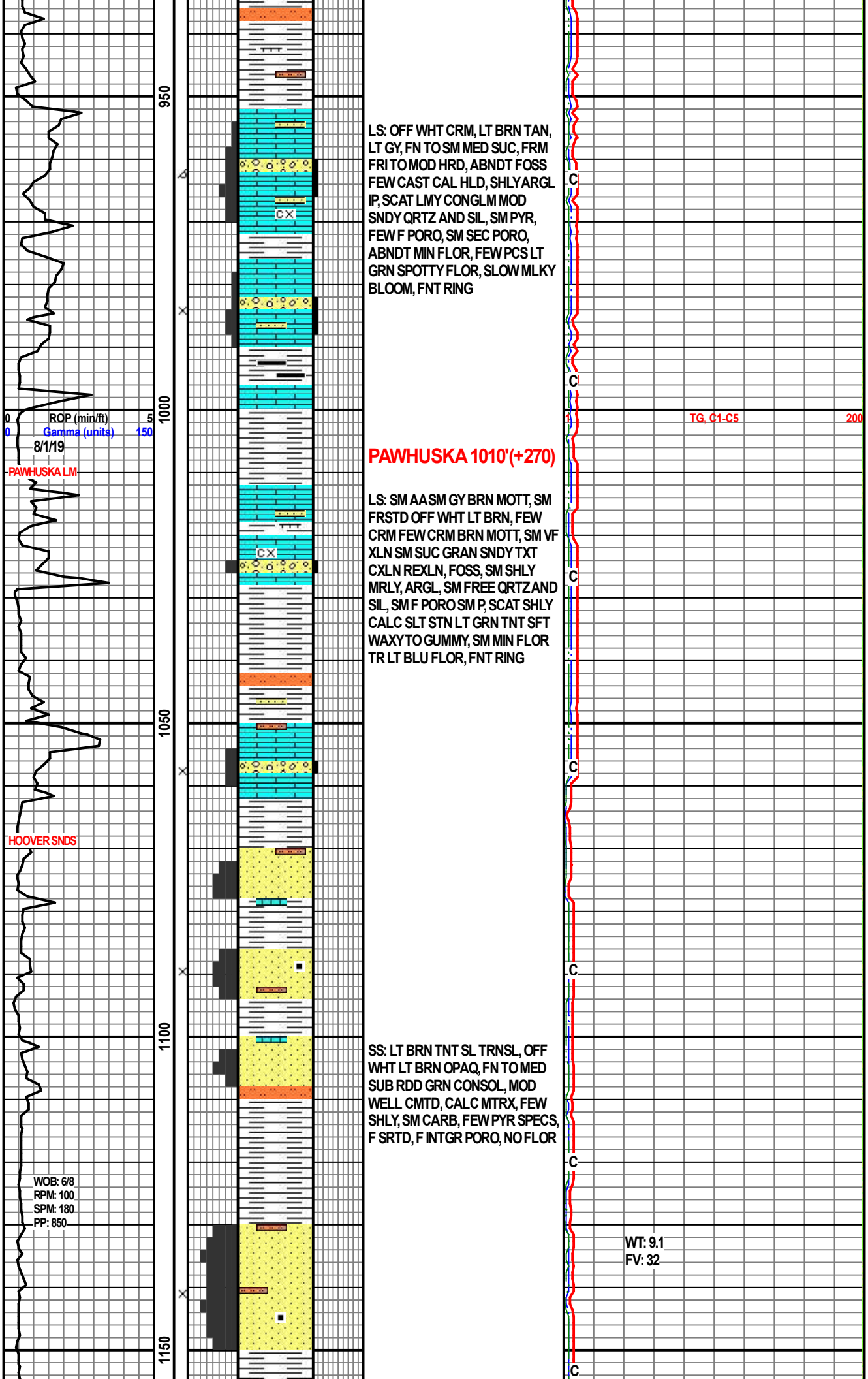
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

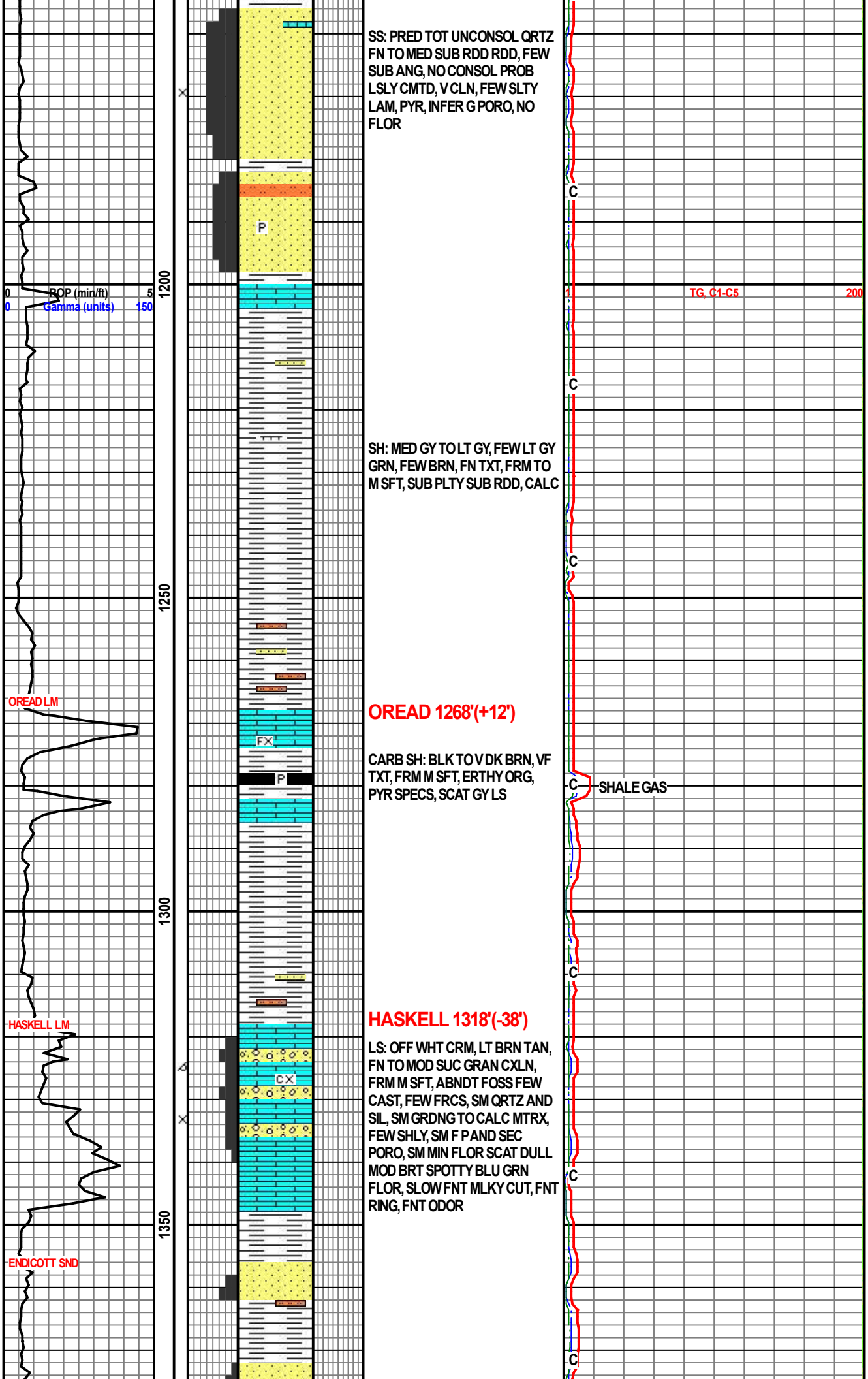
OIL SHOW
- Even
- Spotted
- Ques
- Dead

INTERVAL
- Core
- Dst

EVENT
- Rft
- Sidewall




950
1000
1050
1100
1150
0 ROP (min/ft) 5
0 Gamma (units) 150
8/1/19
PAWHUSKA LM
HOOVER SNDS
WOB: 6/8
RPM: 100
SPM: 180
PP: 850
LS: OFF WHT CRM, LT BRN TAN, LT GY, FN TO SM MED SUC, FRM FRI TO MOD HRD, ABNDT FOSS FEW CAST CAL HLD, SHLY ARGL IP, SCAT LMY CONGLM MOD SNDY QRTZ AND SIL, SM PYR, FEW F PORO, SM SEC PORO, ABNDT MIN FLOR, FEW PCS LT GRN SPOTTY FLOR, SLOW MLKY BLOOM, FNT RING
PAWHUSKA 1010'(+270)
LS: SM AA SM GY BRN MOTT, SM FRSTD OFF WHT LT BRN, FEW CRM FEW CRM BRN MOTT, SM VF XLN SM SUC GRAN SNDY TXT CXLN REXLN, FOSS, SM SHLY MRLY, ARGL, SM FREE QRTZ AND SIL, SM F PORO SM P, SCAT SHLY CALC SLT STN LT GRN TNT SFT WAXY TO GUMMY, SM MIN FLOR TR LT BLU FLOR, FNT RING
SS: LT BRN TNT SL TRNSL, OFF WHT LT BRN OPAQ, FN TO MED SUB RDD GRN CONSOL, MOD WELL CMTD, CALC MTRX, FEW SHLY, SM CARB, FEW PYR SPECS, F SRTD, F INTGR PORO, NO FLOR
C
1 TG, C1-C5 200
WT: 9.1
FV: 32


0
ROP (min/ft)
5
0
Gamma (units)
150
1200
1250
1300
1350
OREAD LM
HASKELL LM
ENDICOTT SND
SS: PRED TOT UNCONSOL QRTZ FN TO MED SUB RDD RDD, FEW SUB ANG, NO CONSOL PROB LSLY CMTD, V CLN, FEW SLTY LAM, PYR, INFER G PORO, NO FLOR
SH: MED GY TO LT GY, FEW LT GY GRN, FEW BRN, FN TXT, FRM TO M SFT, SUB PLTY SUB RDD, CALC
OREAD 1268'(+12')
CARB SH: BLK TO V DK BRN, VF TXT, FRM M SFT, ERTHY ORG, PYR SPECS, SCAT GY LS
HASKELL 1318'(-38')
LS: OFF WHT CRM, LT BRN TAN, FN TO MOD SUC GRAN CXLN, FRM M SFT, ABNDT FOSS FEW CAST, FEW FRCS, SM QRTZ AND SIL, SM GRDNG TO CALC MTRX, FEW SHLY, SM F P AND SEC PORO, SM MIN FLOR SCAT DULL MOD BRT SPOTTY BLU GRN FLOR, SLOW FNT MLKY CUT, FNT RING, FNT ODOR
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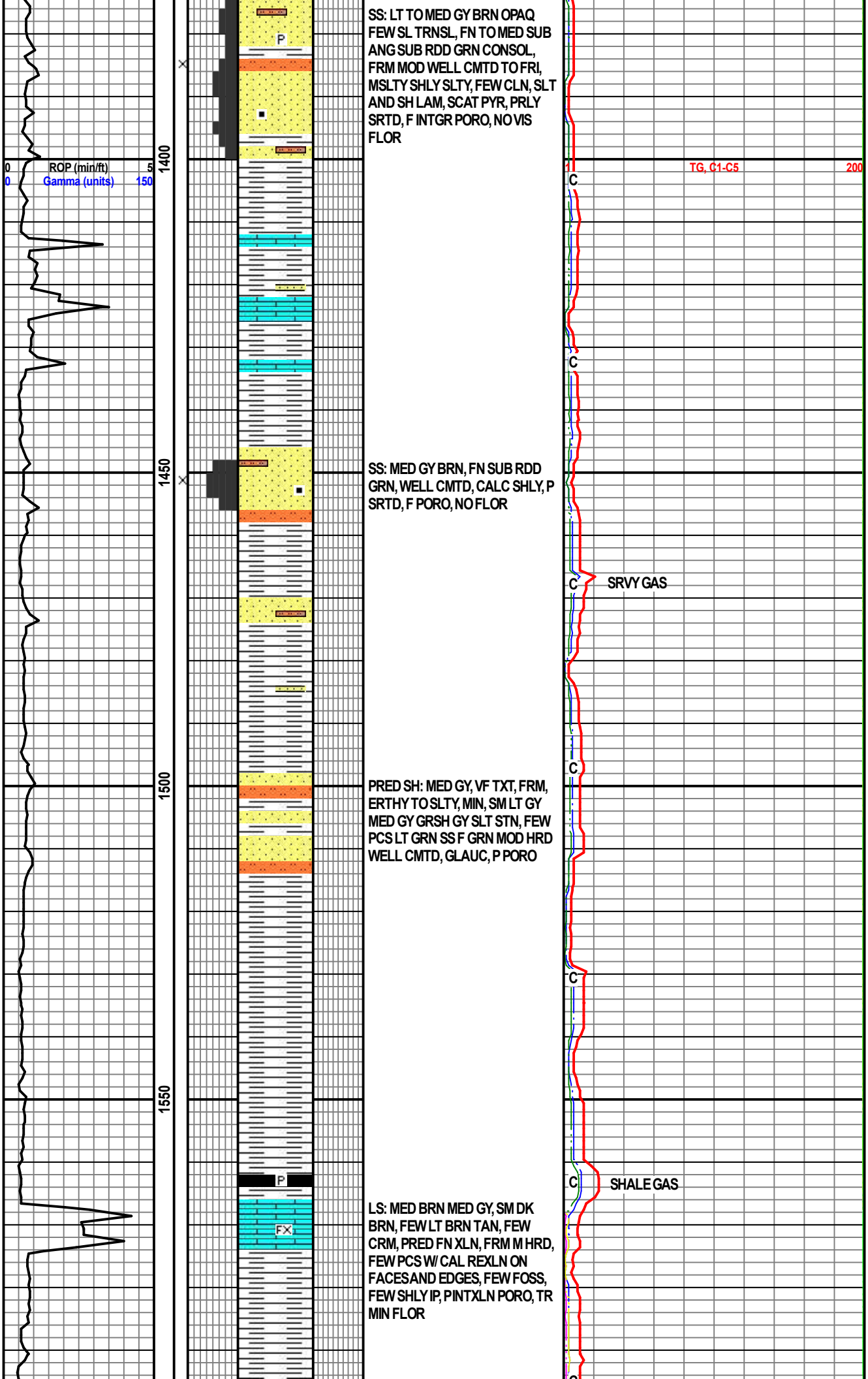
FX
CX
C
SHALE GAS
1
TG, C1-C5
200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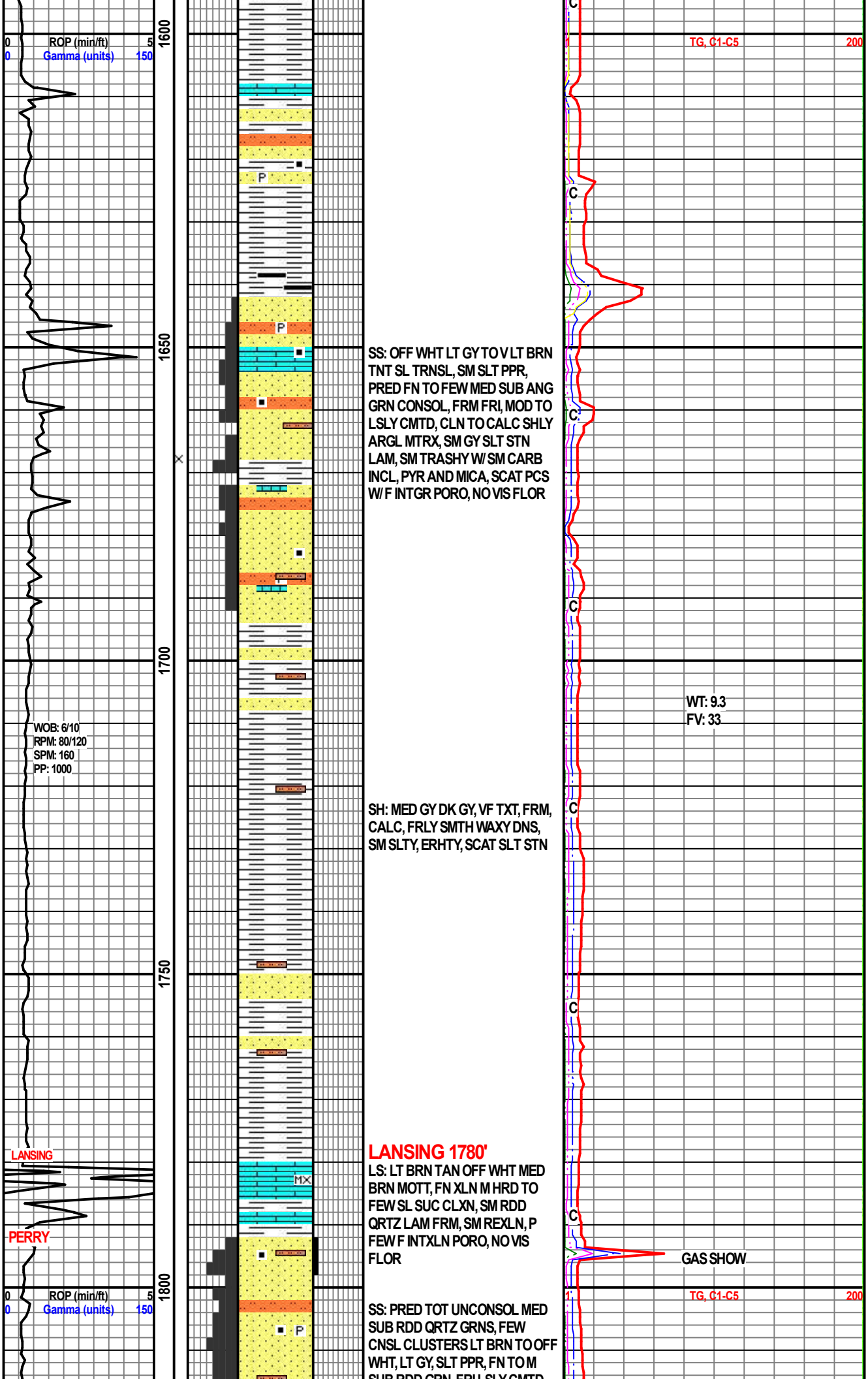
ROP (min/ft)
5
0
Gamma (units)
150
1400
1450
1500
1550
P
FX
SS: LT TO MED GY BRN OPAQ FEW SL TRNSL, FN TO MED SUB ANG SUB RDD GRN CONSOL, FRM MOD WELL CMTD TO FRI, MSLTY SHLY SLTY, FEW CLN, SLT AND SH LAM, SCAT PYR, PRLY SRTD, F INTGR PORO, NO VIS FLOR
SS: MED GY BRN, FN SUB RDD GRN, WELL CMTD, CALC SHLY, P SRTD, F PORO, NO FLOR
PRED SH: MED GY, VF TXT, FRM, ERTHY TO SLTY, MIN, SM LT GY MED GY GRSH GY SLT STN, FEW PCS LT GRN SS F GRN MOD HRD WELL CMTD, GLAUC, P PORO
LS: MED BRN MED GY, SM DK BRN, FEW LT BRN TAN, FEW CRM, PRED FN XLN, FRM M HRD, FEW PCS W/ CAL REXLN ON FACES AND EDGES, FEW FOSS, FEW SHLY IP, PINTXLN PORO, TR MIN FLOR
1
TG, C1-C5
200
C
SRVY GAS
SHALE GAS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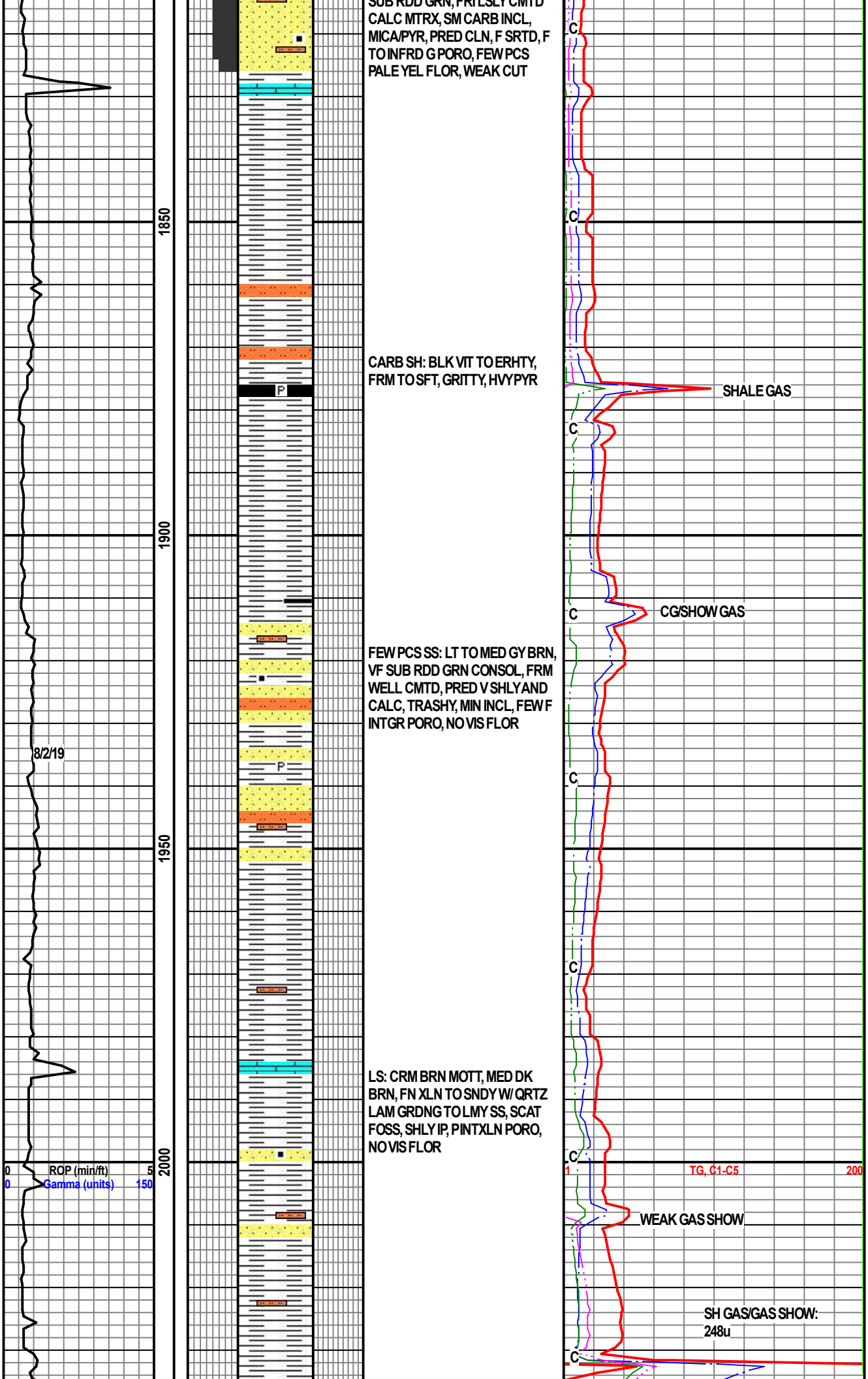
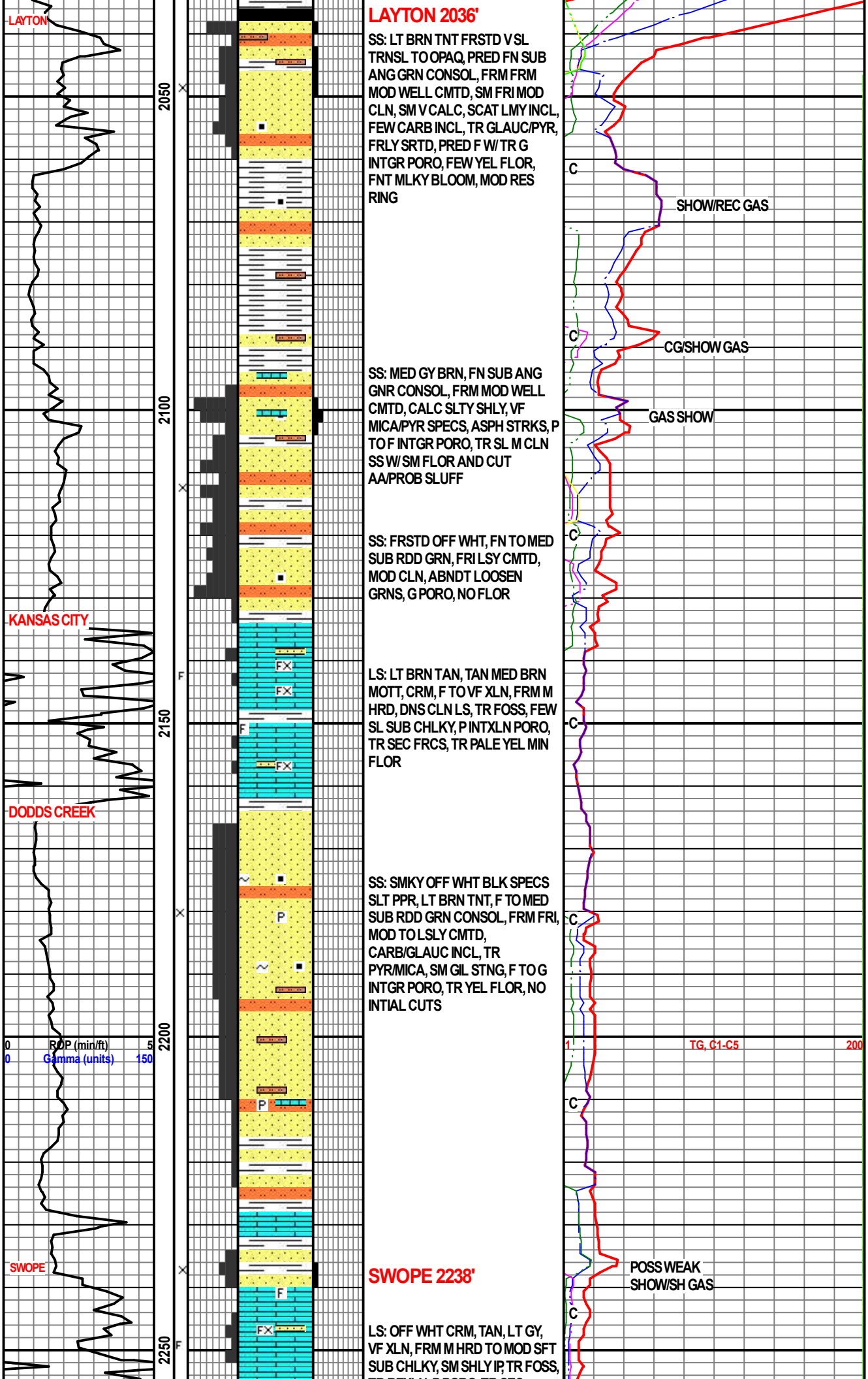
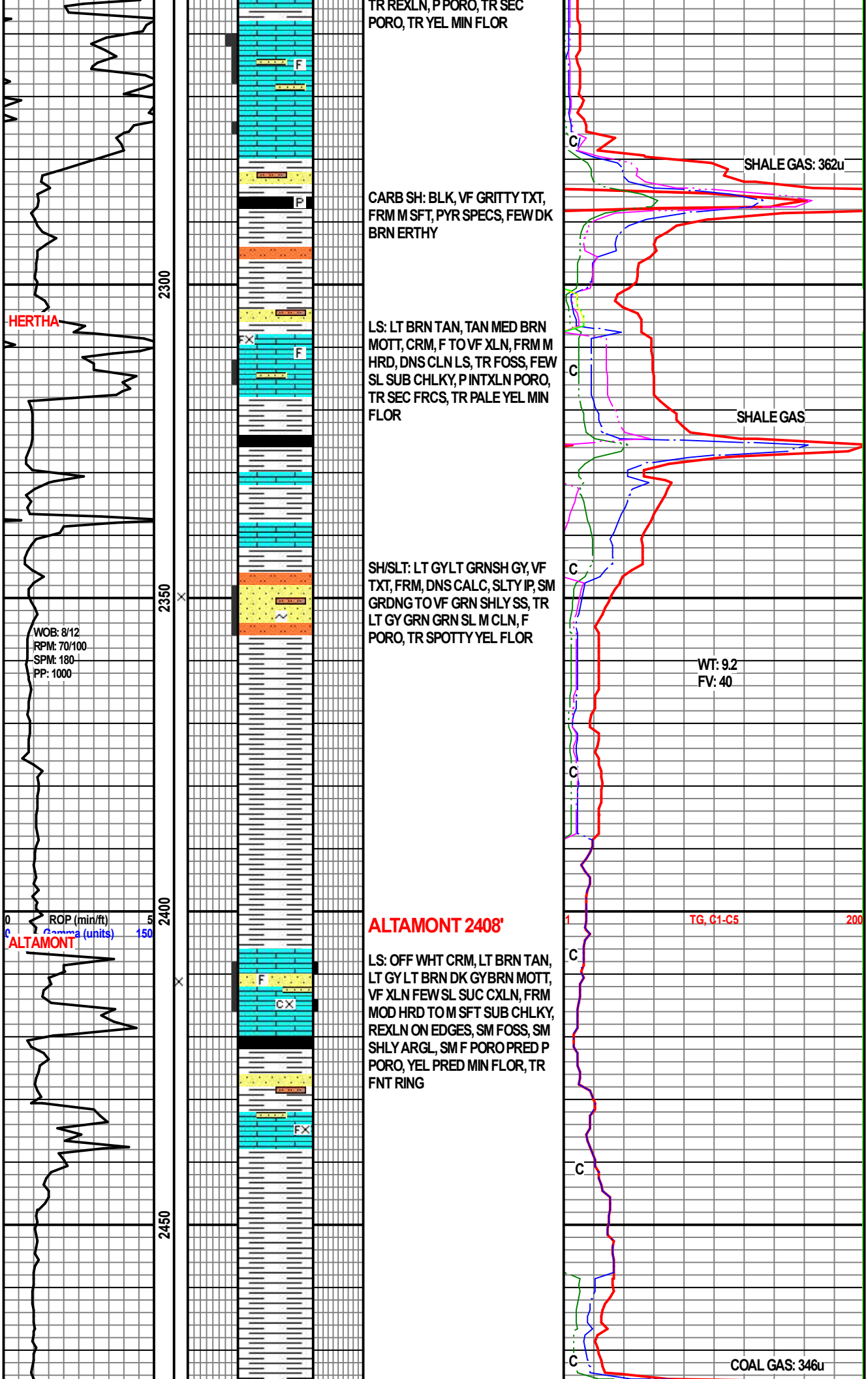
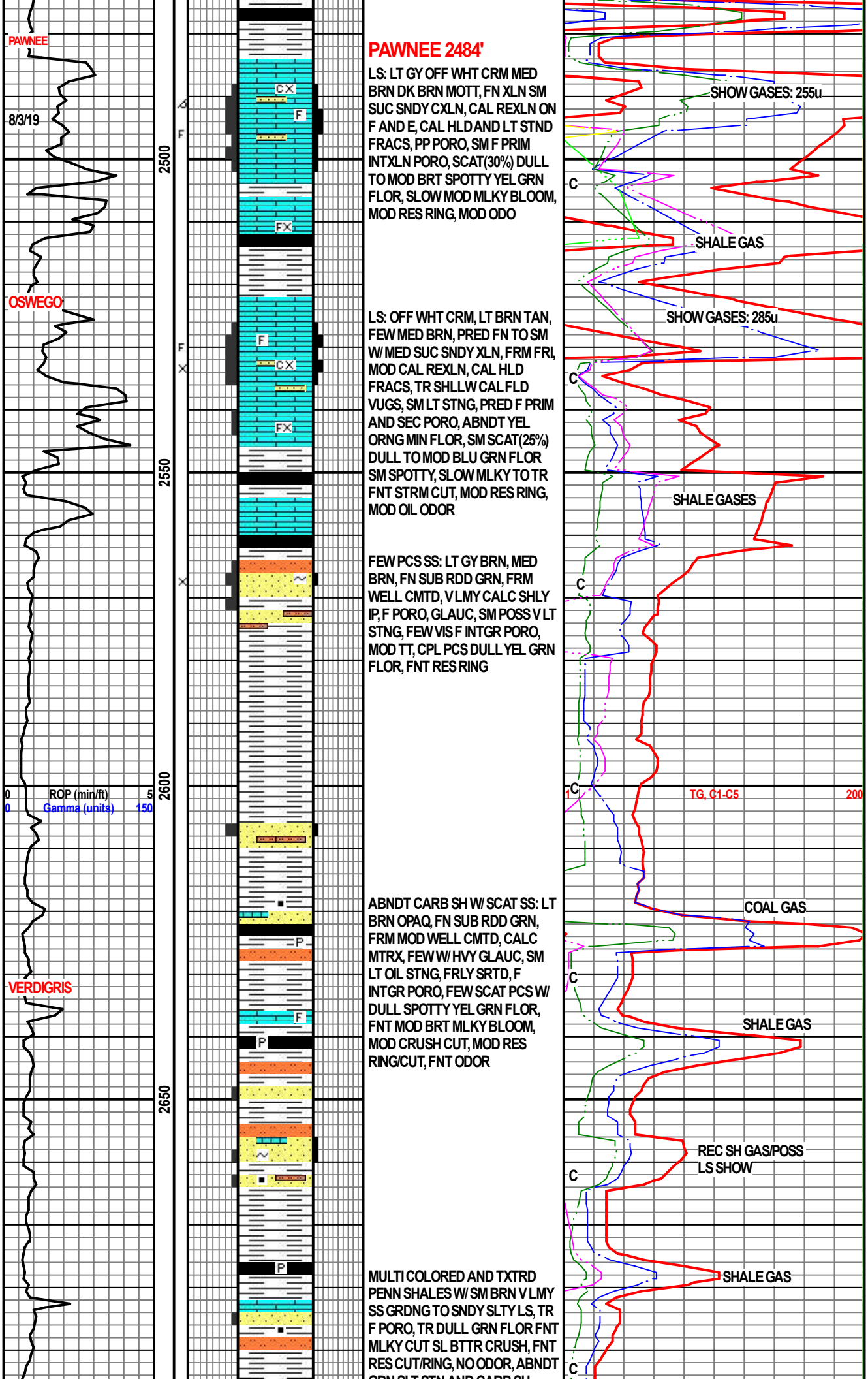
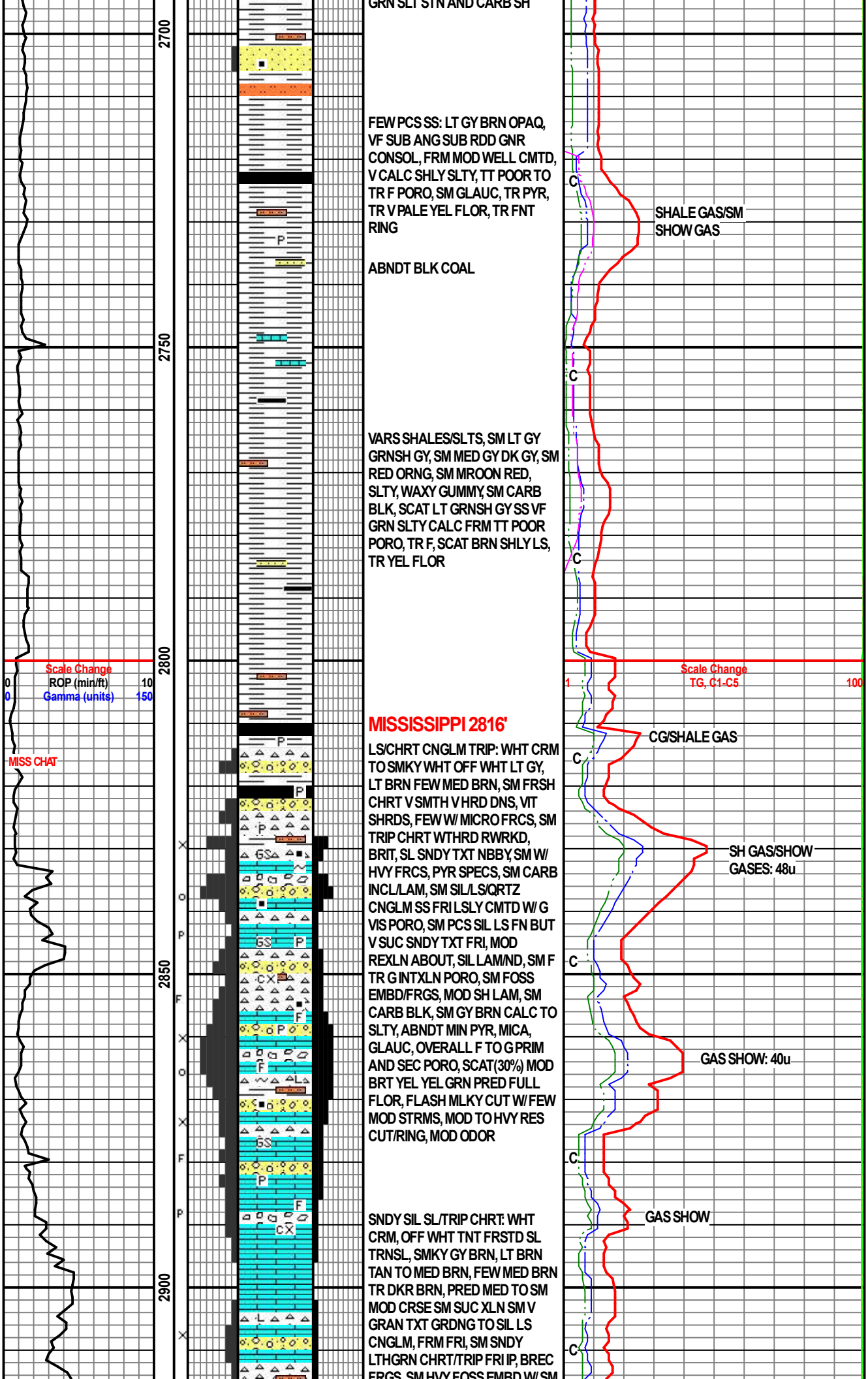
0 Gamma (units) 150
1600
1650
1700
1750
1800
WOB: 6/10
RPM: 80/120
SPM: 160
PP: 1000
LANSING
PERRY
P
MX
C
1 TG, C1-C5 200
SS: OFF WHT LT GY TO V LT BRN TNT SL TRNSL, SM SLT PPR, PRED FN TO FEW MED SUB ANG GRN CONSOL, FRM FRI, MOD TO LSLY CMTD, CLN TO CALC SHLY ARGL MTRX, SM GY SLT STN LAM, SM TRASHY W/ SM CARB INCL, PYR AND MICA, SCAT PCS W/ F INTGR PORO, NO VIS FLOR
WT: 9.3
FV: 33
SH: MED GY DK GY, VF TXT, FRM, CALC, FRLY SMTH WAXY DNS, SM SLTY, ERHTY, SCAT SLT STN
LANSING 1780'
LS: LT BRN TAN OFF WHT MED BRN MOTT, FN XLN M HRD TO FEW SL SUC CLXN, SM RDD QRTZ LAM FRM, SM REXLN, P FEW F INTXLN PORO, NO VIS FLOR
GAS SHOW
SS: PRED TOT UNCONSOL MED SUB RDD QRTZ GRNS, FEW CNSL CLUSTERS LT BRN TO OFF WHT, LT GY, SLT PPR, FN TO M

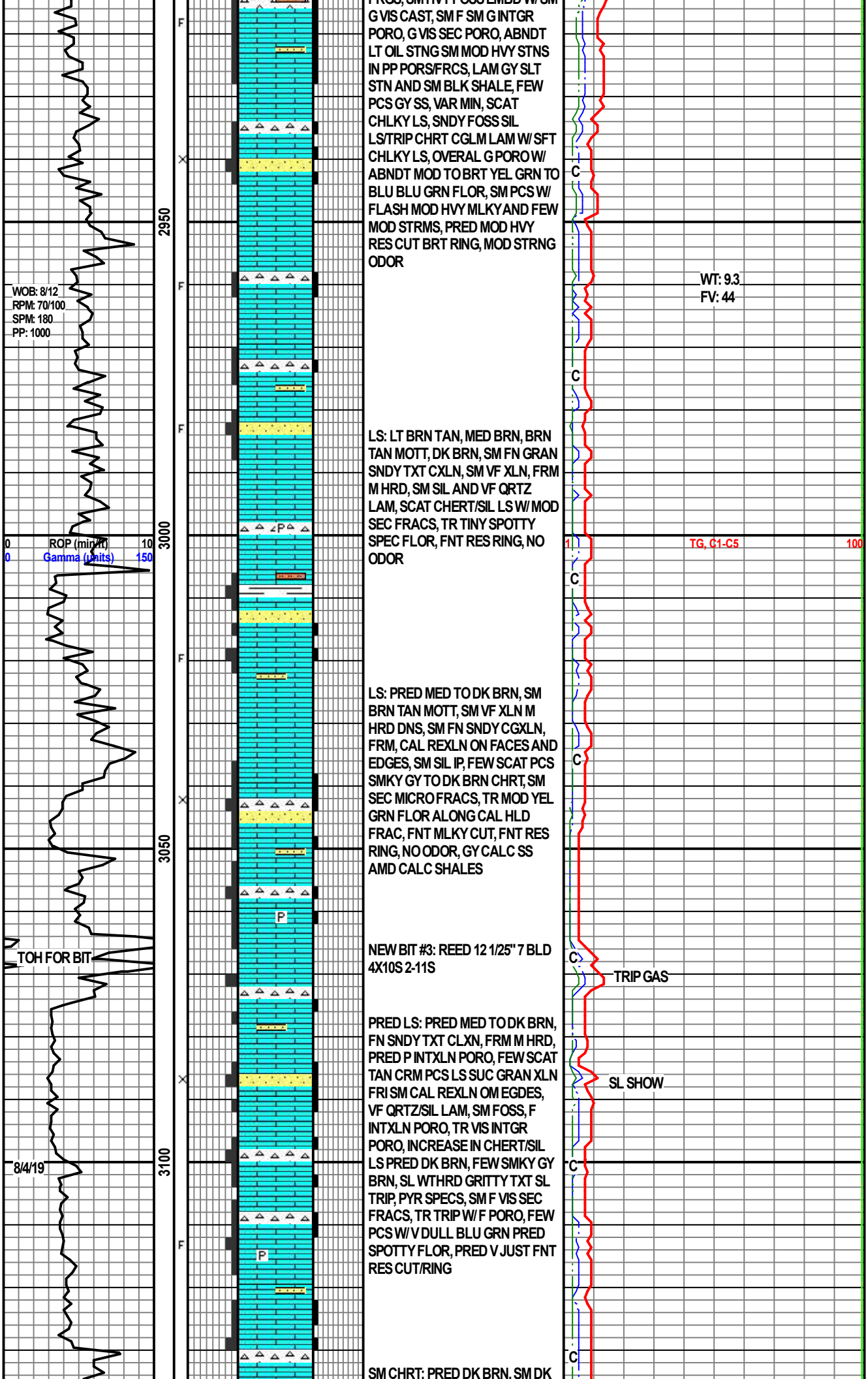

SUB RDD GRN, FRI LSLY CMTD
CALC MTRX, SM CARB INCL,
MICA/PYR, PRED CLN, F SRTD, F
TO INFRD G PORO, FEW PCS
PALE YEL FLOR, WEAK CUT
CARB SH: BLK VIT TO ERHTY,
FRM TO SFT, GRITTY, HVY PYR
SHALE GAS
CG/SHOW GAS
FEW PCS SS: LT TO MED GY BRN,
VF SUB RDD GRN CONSOL, FRM
WELL CMTD, PRED V SHLY AND
CALC, TRASHY, MIN INCL, FEW F
INTGR PORO, NO VIS FLOR
LS: CRM BRN MOTT, MED DK
BRN, FN XLN TO SNDY W/ QRTZ
LAM GRDNG TO LMY SS, SCAT
FOSS, SHLY IP, PINTXLN PORO,
NO VIS FLOR
WEAK GAS SHOW
SH GAS/GAS SHOW:
248u
8/2/19
1850
1900
1950
2000
ROP (min/ft)
Gamma (units)
TG, C1-C5
0
5
150
200
1
C
P

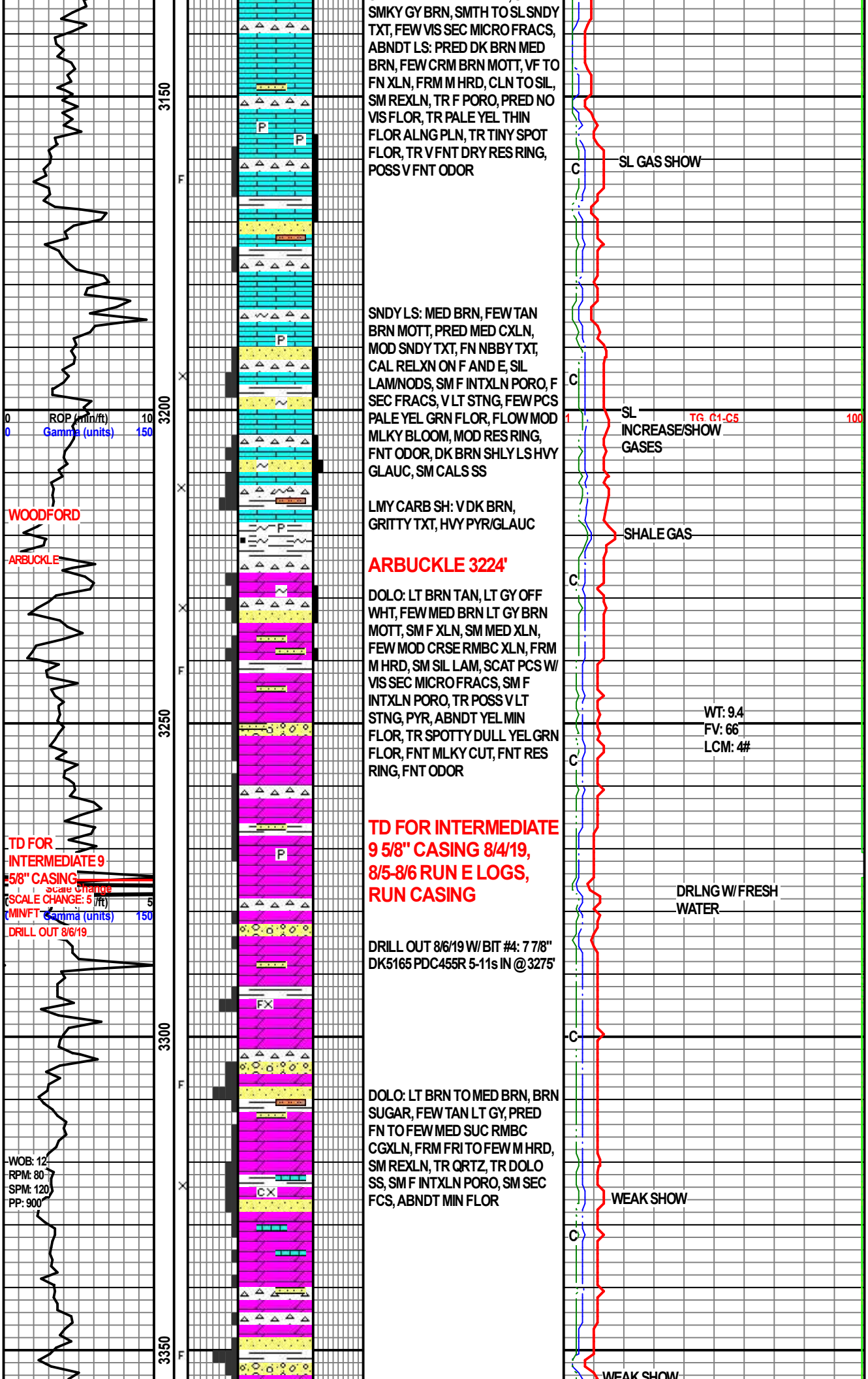

LAYTON
KANSAS CITY
DODDS CREEK
SWOPE
2050
2100
2150
2200
2250
0 ROP (min/ft) 5
0 Gamma (units) 150
LAYTON 2036'
SS: LT BRN TNT FRSTD V SL TRNSL TO OPAQ, PRED FN SUB ANG GRN CONSOL, FRM FRM MOD WELL CMTD, SM FRI MOD CLN, SM V CALC, SCAT LMY INCL, FEW CARB INCL, TR GLAUC/PYR, FRLY SRTD, PRED F W/ TR G INTGR PORO, FEW YEL FLOR, FNT MLKY BLOOM, MOD RES RING
SHOW/REC GAS
SS: MED GY BRN, FN SUB ANG GNR CONSOL, FRM MOD WELL CMTD, CALC SLTY SHLY, VF MICA/PYR SPECS, ASPH STRKS, P TO F INTGR PORO, TR SL M CLN SS W/ SM FLOR AND CUT AA/PROB SLUFF
CG/SHOW GAS
SS: FRSTD OFF WHT, FN TO MED SUB RDD GRN, FRI LSY CMTD, MOD CLN, ABNDT LOOSEN GRNS, G PORO, NO FLOR
GAS SHOW
LS: LT BRN TAN, TAN MED BRN MOTT, CRM, F TO VF XLN, FRM M HRD, DNS CLN LS, TR FOSS, FEW SL SUB CHLKY, P INTXLN PORO, TR SEC FRCS, TR PALE YEL MIN FLOR
SS: SMKY OFF WHT BLK SPECS SLT PPR, LT BRN TNT, F TO MED SUB RDD GRN CONSOL, FRM FRI, MOD TO LSLY CMTD, CARB/GLAUC INCL, TR PYR/MICA, SM GIL STNG, F TO G INTGR PORO, TR YEL FLOR, NO INTIAL CUTS
1 TG, C1-C5 200
SWOPE 2238'
POSS WEAK SHOW/SH GAS
LS: OFF WHT CRM, TAN, LT GY, VF XLN, FRM M HRD TO MOD SFT SUB CHLKY, SM SHLY IP, TR FOSS,

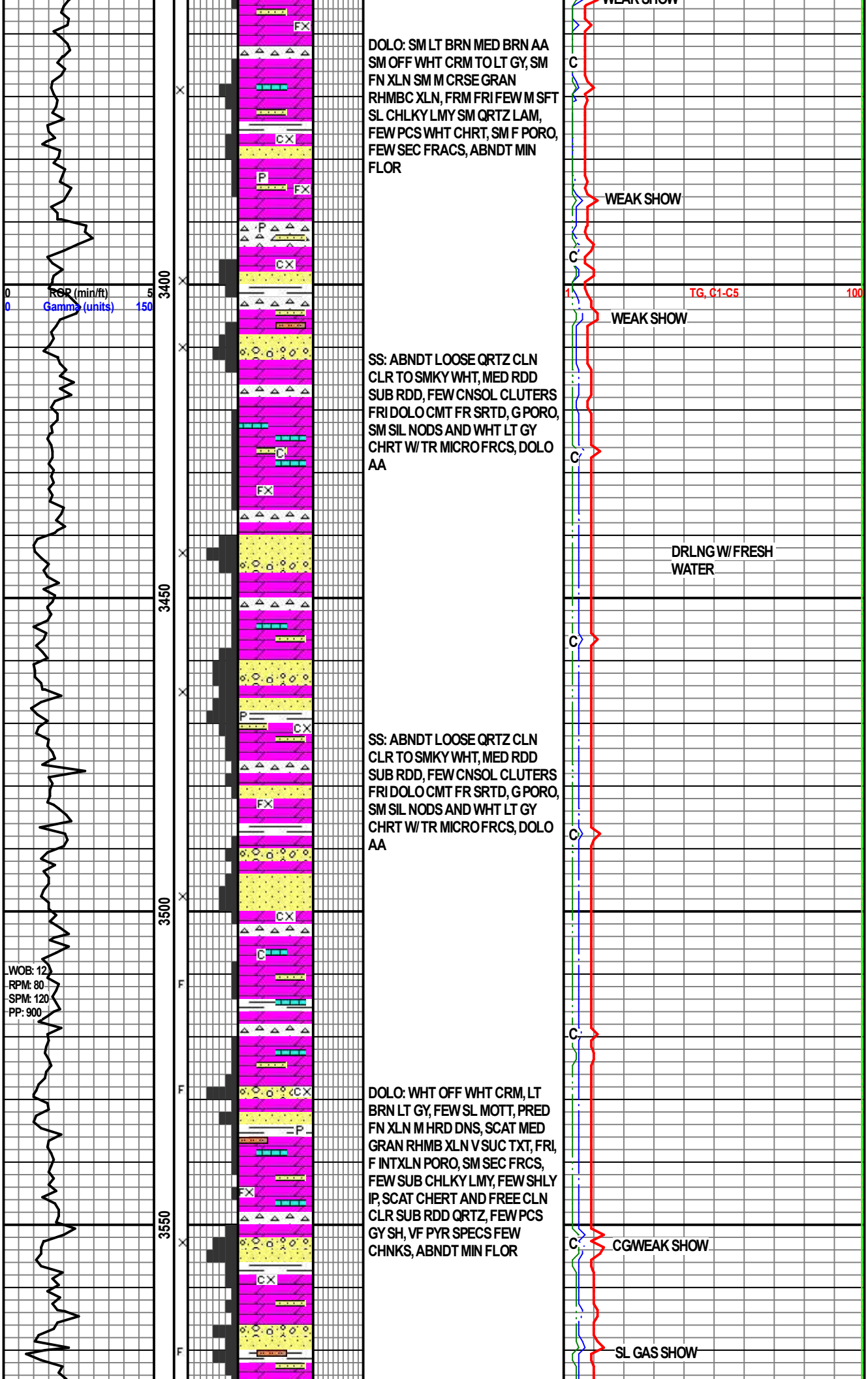

TR REXLN, P PORO, TR SEC PORO, TR YEL MIN FLOR
CARB SH: BLK, VF GRITTY TXT, FRM M SFT, PYR SPECS, FEW DK BRN ERTHY
LS: LT BRN TAN, TAN MED BRN MOTT, CRM, F TO VF XLN, FRM M HRD, DNS CLN LS, TR FOSS, FEW SL SUB CHLKY, P INTXLN PORO, TR SEC FRCS, TR PALE YEL MIN FLOR
SH/SLT: LT GY LT GRNSH GY, VF TXT, FRM, DNS CALC, SLTY IP, SM GRDNG TO VF GRN SHLY SS, TR LT GY GRN GRN SL M CLN, F PORO, TR SPOTTY YEL FLOR
ALTAMONT 2408'
LS: OFF WHT CRM, LT BRN TAN, LT GY LT BRN DK GYBRN MOTT, VF XLN FEW SL SUC CXLN, FRM MOD HRD TO M SFT SUB CHLKY, REXLN ON EDGES, SM FOSS, SM SHLY ARGL, SM F PORO PRED P PORO, YEL PRED MIN FLOR, TR FNT RING
SHALE GAS: 362u
SHALE GAS
WT: 9.2
FV: 40
COAL GAS: 346u
HERTHA
ALTAMONT
WOB: 8/12
RPM: 70/100
SPM: 180
PP: 1000
0 ROP (min/ft) 5
0 Gamma (units) 150
1 TG, C1-C5 200
2300
2350
2400
2450

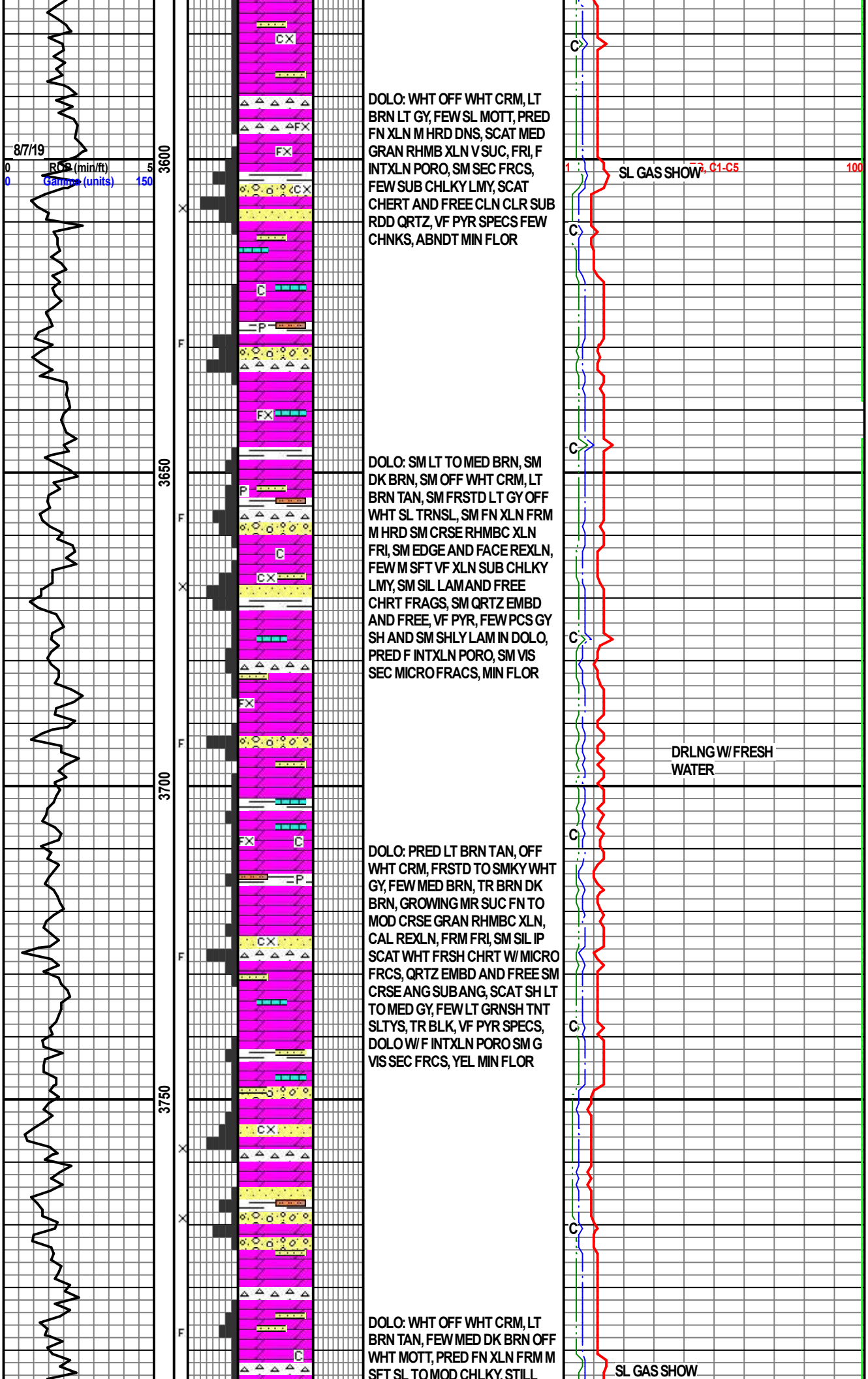

PAWNEE
8/3/19
OSWEGO
VERDIGRIS
2500
2550
2600
2650
0 ROP (min/ft) 5
0 Gamma (units) 150
PAWNEE 2484'
LS: LT GY OFF WHT CRM MED BRN DK BRN MOTT, FN XLN SM SUC SNDY CXLN, CAL REXLN ON F AND E, CAL HLD AND LT STND FRACS, PP PORO, SM F PRIM INTXLN PORO, SCAT(30%) DULL TO MOD BRT SPOTTY YEL GRN FLOR, SLOW MOD MLKY BLOOM, MOD RES RING, MOD ODO
LS: OFF WHT CRM, LT BRN TAN, FEW MED BRN, PRED FN TO SM W/ MED SUC SNDY XLN, FRM FRI, MOD CAL REXLN, CAL HLD FRACS, TR SHLLW CAL FLD VUGS, SM LT STNG, PRED F PRIM AND SEC PORO, ABNDT YEL ORNG MIN FLOR, SM SCAT(25%) DULL TO MOD BLU GRN FLOR SM SPOTTY, SLOW MLKY TO TR FNT STRM CUT, MOD RES RING, MOD OIL ODOR
FEW PCS SS: LT GY BRN, MED BRN, FN SUB RDD GRN, FRM WELL CMTD, V LMY CALC SHLY IP, F PORO, GLAUC, SM POSS V LT STNG, FEW VIS F INTGR PORO, MOD TT, CPL PCS DULL YEL GRN FLOR, FNT RES RING
ABNDT CARB SH W/ SCAT SS: LT BRN OPAQ, FN SUB RDD GRN, FRM MOD WELL CMTD, CALC MTRX, FEW W/ HVY GLAUC, SM LT OIL STNG, FRLY SRTD, F INTGR PORO, FEW SCAT PCS W/ DULL SPOTTY YEL GRN FLOR, FNT MOD BRT MLKY BLOOM, MOD CRUSH CUT, MOD RES RING/CUT, FNT ODOR
MULTI COLORED AND TXTRD PENN SHALES W/ SM BRN V LMY SS GRDNG TO SNDY SLTY LS, TR F PORO, TR DULL GRN FLOR FNT MLKY CUT SL BTTR CRUSH, FNT RES CUT/RING, NO ODOR, ABNDT
SHOW GASES: 255u
SHALE GAS
SHOW GASES: 285u
SHALE GASES
1 TG, C1-C5 200
COAL GAS
SHALE GAS
REC SH GAS/POSS LS SHOW
SHALE GAS

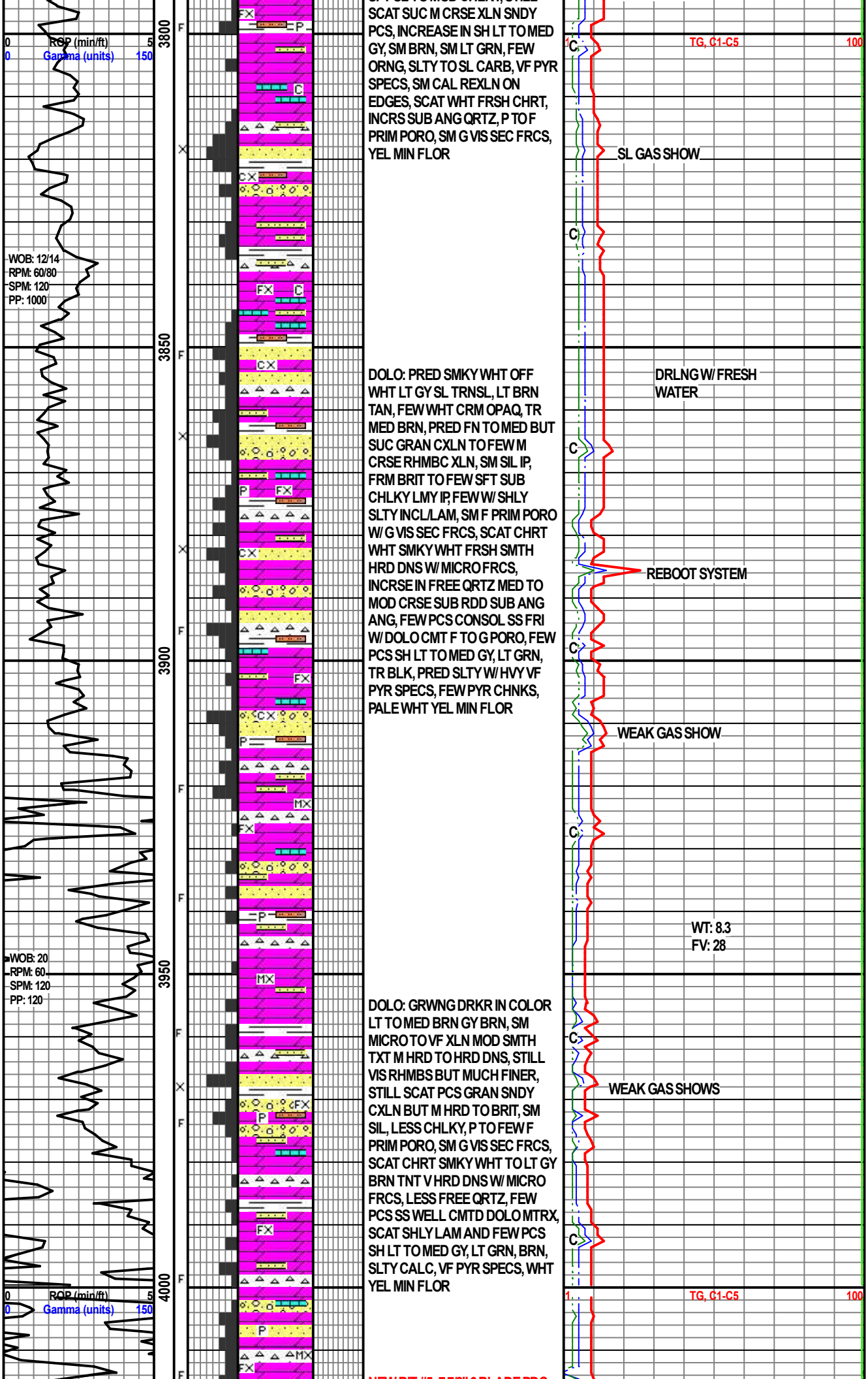

2700
2750
2800
2850
2900
Scale Change
0
ROP (min/ft)
10
0
Gamma (units)
150
MISS CHAT
Scale Change
1
TG, C1-C5
100
GRN SLT STN AND CARB SH
FEW PCS SS: LT GY BRN OPAQ, VF SUB ANG SUB RDD GNR CONSOL, FRM MOD WELL CMTD, V CALC SHLY SLTY, TT POOR TO TR F PORO, SM GLAUC, TR PYR, TR V PALE YEL FLOR, TR FNT RING
ABNDT BLK COAL
SHALE GAS/SM SHOW GAS
VARS SHALES/SLTS, SM LT GY GRNSH GY, SM MED GY DK GY, SM RED ORNG, SM MROON RED, SLTY, WAXY GUMMY, SM CARB BLK, SCAT LT GRNSH GY SS VF GRN SLTY CALC FRM TT POOR PORO, TR F, SCAT BRN SHLY LS, TR YEL FLOR
MISSISSIPPI 2816'
CG/SHALE GAS
LS/CHRT CNGLM TRIP: WHT CRM TO SMKY WHT OFF WHT LT GY, LT BRN FEW MED BRN, SM FRSH CHRT V SMTH V HRD DNS, VIT SHRDS, FEW W/ MICRO FRCS, SM TRIP CHRT WTHRD RWRKD, BRIT, SL SNDY TXT NBBY, SM W/ HVY FRCS, PYR SPECS, SM CARB INCL/LAM, SM SIL/LS/QRTZ CNGLM SS FRI LSLY CMTD W/ G VIS PORO, SM PCS SIL LS FN BUT V SUC SNDY TXT FRI, MOD REXLN ABOUT, SIL LAM/ND, SM F TR G INTXLN PORO, SM FOSS EMBD/FRGS, MOD SH LAM, SM CARB BLK, SM GY BRN CALC TO SLTY, ABNDT MIN PYR, MICA, GLAUC, OVERALL F TO G PRIM AND SEC PORO, SCAT(30%) MOD BRT YEL YEL GRN PRED FULL FLOR, FLASH MLKY CUT W/ FEW MOD STRMS, MOD TO HVY RES CUT/RING, MOD ODOR
SH GAS/SHOW GASES: 48u
GAS SHOW: 40u
SNDY SIL SL/TRIP CHRT: WHT CRM, OFF WHT TNT FRSTD SL TRNSL, SMKY GY BRN, LT BRN TAN TO MED BRN, FEW MED BRN TR DKR BRN, PRED MED TO SM MOD CRSE SM SUC XLN SM V GRAN TXT GRDNG TO SIL LS CNGLM, FRM FRI, SM SNDY LTHGRN CHRT/TRIP FRI IP, BREC
GAS SHOW

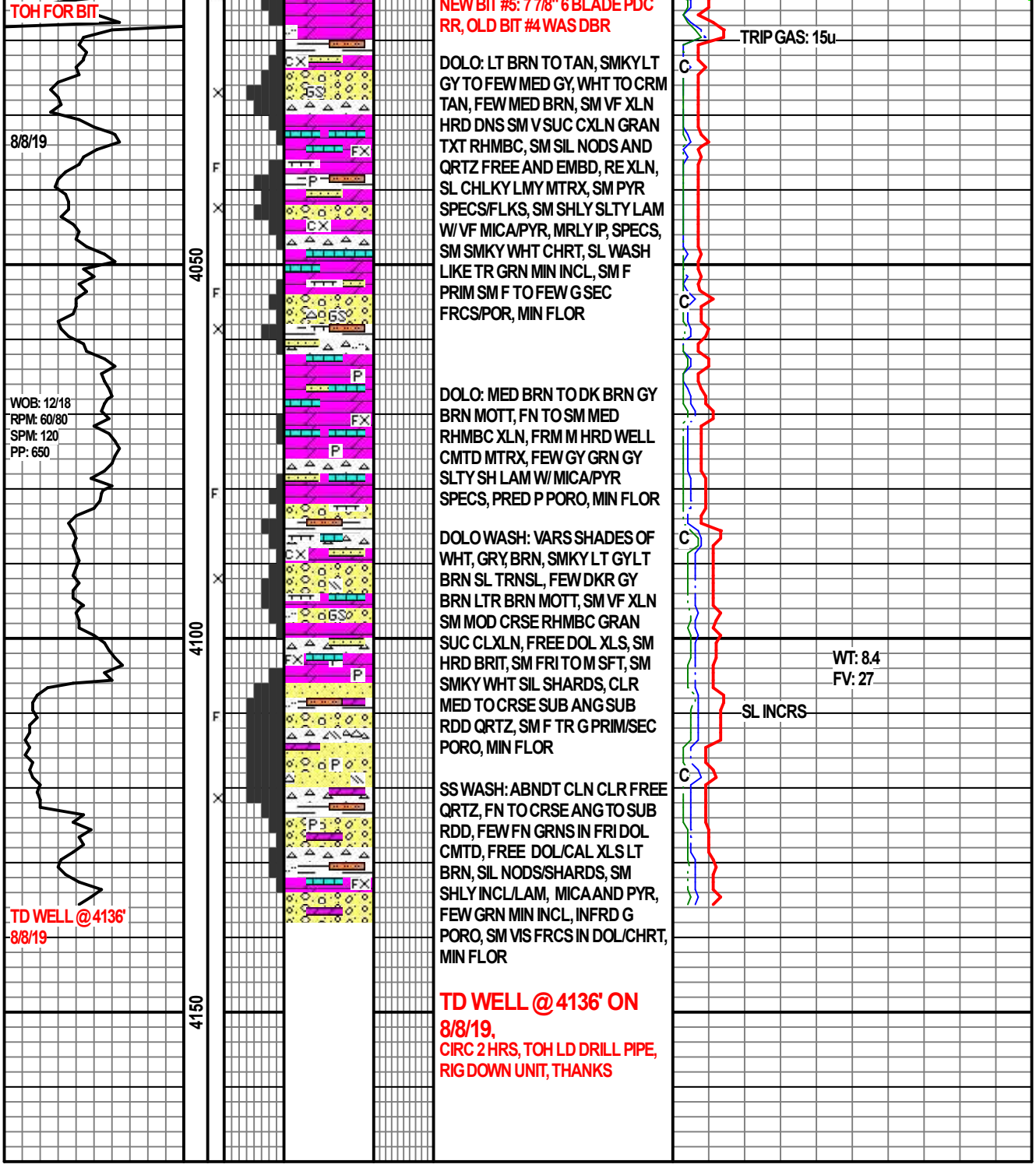

G VIS CAST, SM F SM G INTGR PORO, G VIS SEC PORO, ABNDT LT OIL STNG SM MOD HVY STNS IN PP PORS/FRCS, LAM GY SLT STN AND SM BLK SHALE, FEW PCS GY SS, VAR MIN, SCAT CHLKY LS, SNDY FOSS SIL LS/TRIP CHRT CGLM LAM W/ SFT CHLKY LS, OVERAL G PORO W/ ABNDT MOD TO BRT YEL GRN TO BLU BLU GRN FLOR, SM PCS W/ FLASH MOD HVY MLKY AND FEW MOD STRMS, PRED MOD HVY RES CUT BRT RING, MOD STRNG ODOR
WT: 9.3
FV: 44
WOB: 8/12
RPM: 70/100
SPM: 180
PP: 1000
LS: LT BRN TAN, MED BRN, BRN TAN MOTT, DK BRN, SM FN GRAN SNDY TXT CXLN, SM VF XLN, FRM M HRD, SM SIL AND VF QRTZ LAM, SCAT CHERT/SIL LS W/ MOD SEC FRACS, TR TINY SPOTTY SPEC FLOR, FNT RES RING, NO ODOR
0 ROP (min/ft) 10
0 Gamma (units) 150
1 TG, C1-C5 100
LS: PRED MED TO DK BRN, SM BRN TAN MOTT, SM VF XLN M HRD DNS, SM FN SNDY CGXLN, FRM, CAL REXLN ON FACES AND EDGES, SM SIL IP, FEW SCAT PCS SMKY GY TO DK BRN CHRT, SM SEC MICRO FRACS, TR MOD YEL GRN FLOR ALONG CAL HLD FRAC, FNT MLKY CUT, FNT RES RING, NO ODOR, GY CALC SS AMD CALC SHALES
TOH FOR BIT
NEW BIT #3: REED 12 1/25" 7 BLD 4X10S 2-11S
TRIP GAS
PRED LS: PRED MED TO DK BRN, FN SNDY TXT CLXN, FRM M HRD, PRED P INTXLN PORO, FEW SCAT TAN CRM PCS LS SUC GRAN XLN FRI SM CAL REXLN OM EGDES, VF QRTZ/SIL LAM, SM FOSS, F INTXLN PORO, TR VIS INTGR PORO, INCREASE IN CHERT/SIL LS PRED DK BRN, FEW SMKY GY BRN, SL WTHRD GRITTY TXT SL TRIP, PYR SPECS, SM F VIS SEC FRACS, TR TRIP W/ F PORO, FEW PCS W/ V DULL BLU GRN PRED SPOTTY FLOR, PRED V JUST FNT RES CUT/RING
SL SHOW
8/4/19
SM CHRT: PRED DK BRN, SM DK
2950
3000
3050
3100


SMKY GY BRN, SMTH TO SL SNDY TXT, FEW VIS SEC MICRO FRACS, ABNDT LS: PRED DK BRN MED BRN, FEW CRM BRN MOTT, VF TO FN XLN, FRM M HRD, CLN TO SIL, SM REXLN, TR F PORO, PRED NO VIS FLOR, TR PALE YEL THIN FLOR ALNG PLN, TR TINY SPOT FLOR, TR V FNT DRY RES RING, POSS V FNT ODOR
SL GAS SHOW
SNDY LS: MED BRN, FEW TAN BRN MOTT, PRED MED CXLN, MOD SNDY TXT, FN NBBY TXT, CAL RELXN ON F AND E, SIL LAM/NODS, SM F INTXLN PORO, F SEC FRACS, V LT STNG, FEW PCS PALE YEL GRN FLOR, FLOW MOD MLKY BLOOM, MOD RES RING, FNT ODOR, DK BRN SHLY LS HVY GLAUC, SM CALS SS
SL INCREASE/SHOW GASES
LMY CARB SH: V DK BRN, GRITTY TXT, HVY PYR/GLAUC
SHALE GAS
ARBUCKLE 3224'
DOLO: LT BRN TAN, LT GY OFF WHT, FEW MED BRN LT GY BRN MOTT, SM F XLN, SM MED XLN, FEW MOD CRSE RMBC XLN, FRM M HRD, SM SIL LAM, SCAT PCS W/ VIS SEC MICRO FRACS, SM F INTXLN PORO, TR POSS V LT STNG, PYR, ABNDT YEL MIN FLOR, TR SPOTTY DULL YEL GRN FLOR, FNT MLKY CUT, FNT RES RING, FNT ODOR
WT: 9.4
FV: 66
LCM: 4#
TD FOR INTERMEDIATE 9 5/8" CASING 8/4/19, 8/5-8/6 RUN E LOGS, RUN CASING
DRLNG W/ FRESH WATER
DRILL OUT 8/6/19 W/ BIT #4: 7 7/8" DK5165 PDC455R 5-11s IN @3275'
DOLO: LT BRN TO MED BRN, BRN SUGAR, FEW TAN LT GY, PRED FN TO FEW MED SUC RMBC CGXLN, FRM FRI TO FEW M HRD, SM REXLN, TR QRTZ, TR DOLO SS, SM F INTXLN PORO, SM SEC FCS, ABNDT MIN FLOR
WEAK SHOW
WEAK SHOW
0 ROP (min/ft) 10
0 Gamma (units) 150
1 TG, C1-C5 100
WOODFORD
ARBUCKLE
TD FOR INTERMEDIATE 9 5/8" CASING
Scale Change
(SCALE CHANGE: 5 /ft) 5
(MIN/FT Gamma (units) 150
DRILL OUT 8/6/19
WOB: 12
RPM: 80
SPM: 120
PP: 900
3150
3200
3250
3300
3350
P
FX
CX
C
F
X


0
ROP (min/ft)
5
0
Gamma (units)
150
3400
3450
3500
3550
WOB: 12
RPM: 80
SPM: 120
PP: 900
DOLO: SM LT BRN MED BRN AA SM OFF WHT CRM TO LT GY, SM FN XLN SM M CRSE GRAN RHMBC XLN, FRM FRI FEW M SFT SL CHLKY LMY SM QRTZ LAM, FEW PCS WHT CHRT, SM F PORO, FEW SEC FRACS, ABNDT MIN FLOR
WEAK SHOW
1
TG, C1-C5
100
WEAK SHOW
SS: ABNDT LOOSE QRTZ CLN CLR TO SMKY WHT, MED RDD SUB RDD, FEW CNSOL CLUTERS FRI DOLO CMT FR SRTD, G PORO, SM SIL NODS AND WHT LT GY CHRT W/ TR MICRO FRCS, DOLO AA
DRLNG W/ FRESH WATER
SS: ABNDT LOOSE QRTZ CLN CLR TO SMKY WHT, MED RDD SUB RDD, FEW CNSOL CLUTERS FRI DOLO CMT FR SRTD, G PORO, SM SIL NODS AND WHT LT GY CHRT W/ TR MICRO FRCS, DOLO AA
DOLO: WHT OFF WHT CRM, LT BRN LT GY, FEW SL MOTT, PRED FN XLN M HRD DNS, SCAT MED GRAN RHMB XLN V SUC TXT, FRI, F INTXLN PORO, SM SEC FRCS, FEW SUB CHLKY LMY, FEW SHLY IP, SCAT CHERT AND FREE CLN CLR SUB RDD QRTZ, FEW PCS GY SH, VF PYR SPECS FEW CHNKS, ABNDT MIN FLOR
CG/WEAK SHOW
SL GAS SHOW


8/7/19
0
ROP (min/ft)
5
0
Gamma (units)
150
3600
3650
3700
3750
DOLO: WHT OFF WHT CRM, LT BRN LT GY, FEW SL MOTT, PRED FN XLN M HRD DNS, SCAT MED GRAN RHMB XLN V SUC, FRI, F INTXLN PORO, SM SEC FRCS, FEW SUB CHLKY LMY, SCAT CHERT AND FREE CLN CLR SUB RDD QRTZ, VF PYR SPECS FEW CHNKS, ABNDT MIN FLOR
1
C1-C5
100
SL GAS SHOW
DOLO: SM LT TO MED BRN, SM DK BRN, SM OFF WHT CRM, LT BRN TAN, SM FRSTD LT GY OFF WHT SL TRNSL, SM FN XLN FRM M HRD SM CRSE RHMBC XLN FRI, SM EDGE AND FACE REXLN, FEW M SFT VF XLN SUB CHLKY LMY, SM SIL LAM AND FREE CHRT FRAGS, SM QRTZ EMBD AND FREE, VF PYR, FEW PCS GY SH AND SM SHLY LAM IN DOLO, PRED F INTXLN PORO, SM VIS SEC MICRO FRACS, MIN FLOR
DRLNG W/ FRESH WATER
DOLO: PRED LT BRN TAN, OFF WHT CRM, FRSTD TO SMKY WHT GY, FEW MED BRN, TR BRN DK BRN, GROWING MR SUC FN TO MOD CRSE GRAN RHMBC XLN, CAL REXLN, FRM FRI, SM SIL IP SCAT WHT FRSH CHRT W/ MICRO FRCS, QRTZ EMBD AND FREE SM CRSE ANG SUB ANG, SCAT SH LT TO MED GY, FEW LT GRNSH TNT SLTYS, TR BLK, VF PYR SPECS, DOLO W/ F INTXLN PORO SM G VIS SEC FRCS, YEL MIN FLOR
DOLO: WHT OFF WHT CRM, LT BRN TAN, FEW MED DK BRN OFF WHT MOTT, PRED FN XLN FRM M SFT SL TO MOD CHLKY, STILL
SL GAS SHOW


0
ROP (min/ft)
5
0
Gamma (units)
150
WOB: 12/14
RPM: 60/80
SPM: 120
PP: 1000
3800
3850
3900
3950
4000
SCAT SUC M CRSE XLN SNDY PCS, INCREASE IN SH LT TO MED GY, SM BRN, SM LT GRN, FEW ORNG, SLTY TO SL CARB, VF PYR SPECS, SM CAL REXLN ON EDGES, SCAT WHT FRSH CHRT, INCRS SUB ANG QRTZ, P TO F PRIM PORO, SM G VIS SEC FRCS, YEL MIN FLOR
TG, C1-C5
100
SL GAS SHOW
DOLO: PRED SMKY WHT OFF WHT LT GY SL TRNSL, LT BRN TAN, FEW WHT CRM OPAQ, TR MED BRN, PRED FN TO MED BUT SUC GRAN CXLN TO FEW M CRSE RHMBC XLN, SM SIL IP, FRM BRIT TO FEW SFT SUB CHLKY LMY IP, FEW W/ SHLY SLTY INCL/LAM, SM F PRIM PORO W/ G VIS SEC FRCS, SCAT CHRT WHT SMKY WHT FRSH SMTH HRD DNS W/ MICRO FRCS, INCRSE IN FREE QRTZ MED TO MOD CRSE SUB RDD SUB ANG ANG, FEW PCS CONSOL SS FRI W/ DOLO CMT F TO G PORO, FEW PCS SH LT TO MED GY, LT GRN, TR BLK, PRED SLTY W/ HVY VF PYR SPECS, FEW PYR CHNKS, PALE WHT YEL MIN FLOR
DRLNG W/ FRESH WATER
REBOOT SYSTEM
WEAK GAS SHOW
WT: 8.3
FV: 28
WOB: 20
RPM: 60
SPM: 120
PP: 120
DOLO: GRWNG DRKR IN COLOR LT TO MED BRN GY BRN, SM MICRO TO VF XLN MOD SMTH TXT M HRD TO HRD DNS, STILL VIS RHMBS BUT MUCH FINER, STILL SCAT PCS GRAN SNDY CXLN BUT M HRD TO BRIT, SM SIL, LESS CHLKY, P TO FEW F PRIM PORO, SM G VIS SEC FRCS, SCAT CHRT SMKY WHT TO LT GY BRN TNT V HRD DNS W/ MICRO FRCS, LESS FREE QRTZ, FEW PCS SS WELL CMTD DOLO MTRX, SCAT SHLY LAM AND FEW PCS SH LT TO MED GY, LT GRN, BRN, SLTY CALC, VF PYR SPECS, WHT YEL MIN FLOR
WEAK GAS SHOWS
0
ROP (min/ft)
5
0
Gamma (units)
150
1
TG, C1-C5
100


TOH FOR BIT
8/8/19
WOB: 12/18
RPM: 60/80
SPM: 120
PP: 650
TD WELL @4136'
8/8/19
4050
4100
4150
NEW BIT #5: 7 7/8" 6 BLADE PDC RR, OLD BIT #4 WAS DBR
DOLO: LT BRN TO TAN, SMKY LT GY TO FEW MED GY, WHT TO CRM TAN, FEW MED BRN, SM VF XLN HRD DNS SM V SUC CXLN GRAN TXT RHMBC, SM SIL NODS AND QRTZ FREE AND EMBD, RE XLN, SL CHLKY LMY MTRX, SM PYR SPECS/FLKS, SM SHLY SLTY LAM W/ VF MICA/PYR, MRLY IP, SPECS, SM SMKY WHT CHRT, SL WASH LIKE TR GRN MIN INCL, SM F PRIM SM F TO FEW G SEC FRCS/POR, MIN FLOR
DOLO: MED BRN TO DK BRN GY BRN MOTT, FN TO SM MED RHMBC XLN, FRM M HRD WELL CMTD MTRX, FEW GY GRN GY SLTY SH LAM W/ MICA/PYR SPECS, PRED P PORO, MIN FLOR
DOLO WASH: VARS SHADES OF WHT, GRY, BRN, SMKY LT GY LT BRN SL TRNSL, FEW DKR GY BRN LTR BRN MOTT, SM VF XLN SM MOD CRSE RHMBC GRAN SUC CLXLN, FREE DOL XLS, SM HRD BRIT, SM FRI TO M SFT, SM SMKY WHT SIL SHARDS, CLR MED TO CRSE SUB ANG SUB RDD QRTZ, SM F TR G PRIM/SEC PORO, MIN FLOR
SS WASH: ABNDT CLN CLR FREE QRTZ, FN TO CRSE ANG TO SUB RDD, FEW FN GRNS IN FRI DOL CMTD, FREE DOL/CAL XLS LT BRN, SIL NODS/SHARDS, SM SHLY INCL/LAM, MICA AND PYR, FEW GRN MIN INCL, INFRD G PORO, SM VIS FRCS IN DOL/CHRT, MIN FLOR
TD WELL @4136' ON 8/8/19,
CIRC 2 HRS, TOH LD DRILL PIPE, RIG DOWN UNIT, THANKS
TRIP GAS: 15u
WT: 8.4
FV: 27
SL INCRS

From:	Lynette Davis
To:	"kcc-well-logs@kcc.ks.gov"
Subject:	Logs for Confidential Radcliff #7-5, Cowley County, KS
Date:	Friday, August 16, 2019 10:40:00 AM
Attachments:	15035247100000_LAWCO_Radcliff #7-5_BHC.pdf.pdf 15035247100000_LAWCO_Radcliff #7-5_COMP.pdf.pdf 15035247100000_LAWCO_Radcliff #7-5_CBL.pdf 15035247100000_LAWCO_Radcliff #7-5_DIL.pdf.pdf 15035247100000_LAWCO_Radcliff #7-5_CDLM.pdf.pdf 15035247100000_LAWCO_Radcliff #7-5_BHC.las 15035247100000_LAWCO_Radcliff #7-5_CDLM.las 15035247100000_LAWCO_Radcliff #7-5_COMP.las 15035247100000_LAWCO_Radcliff #7-5_DIL.las
Importance:	High

Please see the attached logs for this Confidential ACO1, Radcliff #7-5, Cowley County, KS.

Thank you,

LAWCO

Lynette Davis

Executive Assistant

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