

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)</i> <i>(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	BEREXCO LLC
Well Name	ARNOLD UNIT 13-12
Doc ID	1733632

All Electric Logs Run

Density/neutron
Induction
Microlog
Sonic log



QUASAR ENERGY SERVICES, INC.

3288 FM 51

Gainesville, Texas 76240

Office: 940-612-3336

Fax: 940-612-3336 | qesi@qeserve.com

Form 185-2N.2

6/8/23

CEMENTING JOB LOG

CEMENTING JOB LOG

Company: Berexco Inc		Well Name: Arnold Unit 15-6 13-12	
Type Job: SURFACE		AFE #:	
CASING DATA			
Size: 8 5/8	Grade:	Weight: 24	
Casing Depths Top:	Bottom: 1743.66		
Tubing: Size:	Weight: 6.5	Retainer:	
Open Hole: Size: 12 1/4	T.D. (ft): 1746	Hole:	
CEMENT DATA			
Spacer Type:			
Amt.	Sks Yield	0	ft³/sk
LEAD: Class A: 65/35/6, 2% CC., 1/4# Celloflake			Excess
Amt. 600	Sks Yield 1236	ft³/sk	Density (PPG) 12.32
TAIL: Class A: 2% CC., 1/4# Celloflake			Excess
Amt. 150	Sks Yield 178.5	ft³/sk	Density (PPG) 15.69
WATER:			
Lead: 600	gals/sk: 11.5	Tail: 150	gals/sk: 5.2
Pump Trucks Used:		04, DP03	
Bulk Equipment:		134, 660-38 / 227, 660-25	
Disp. Fluid Type: Water	Amt. (Bbls.):	108.2	Weight (PPG): 8.3
COMPANY REPRESENTATIVE: Greg		CEMENTER: Daniel Beck	

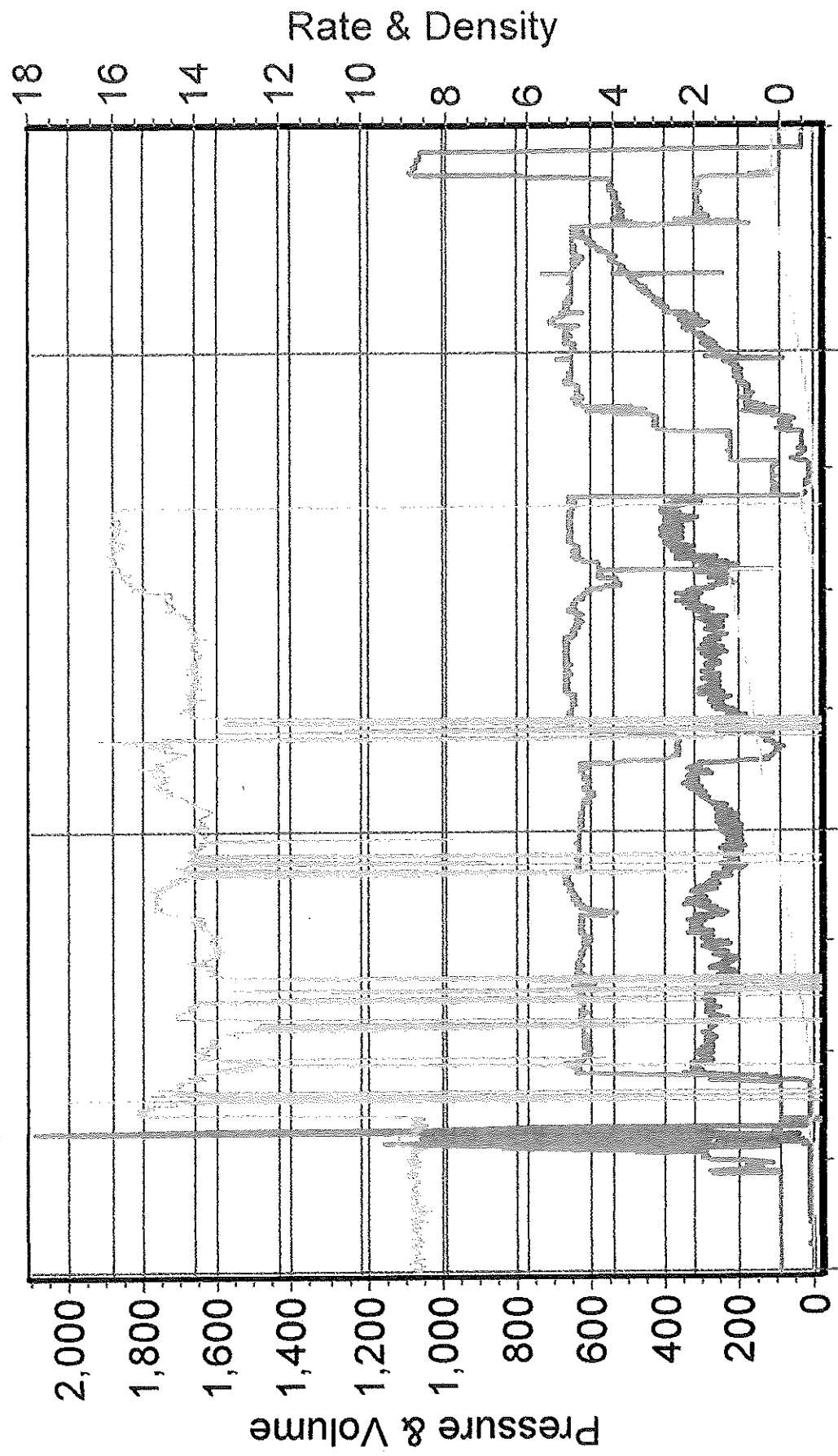
TIME	PRESSURES PSI			FLUID PUMPED DATA		REMARKS
	Casing	Tubing	ANNULUS	TOTAL	RATE	
10:00						ON LOCATION & SAFETY MEETING
10:30						RIG TO CIRCULATE
10:59						RIG TO PT
11:00						PRESSURE TEST TO 2000PSI
11:09	300			220.1slurry	5.0	PUMP 600SX LEAD @ 12.3#
11:58	300			31.7slurry	5.0	PUMP 150SX TAIL @ 15.6#
12:05						SHUTDOWN / DROP PLUG
12:08	100			10	3.0	DISPLACE
	200			20	5.0	
	200			30	5.0	
	250			40	5.0	
	300			50	5.0	
	400			60	5.0	
	450			70	5.0	
	500			80	4.9	
	550			90	4.9	
12:30	600			98	4.9	SLOW RATE TO 2.0BPM 500PSI
	500			100	2.0	
12:35	550			108.2	2.0	LAND PLUG / PRESSURE UP TO 1000PSI
12:37						RELEASE BACK --- FLOAT HELD
						JOB COMPLETE

Company: Berexco Inc	Well Name: Arnold Unit 15-6
Type Job: SURFACE	AFE #:
Date: 6/8/2023	CEMENTING JOB LOG

QUASAR ENERGY SERVICES, INC. | 185-2

Berexco Inc 13-12

Pressure 1 — Total Rate Stage Vol. --- Density



6/8/2023 10:47:38 AM 6/8/2023 11:29:25 AM 6/8/2023 12:15:04 PM



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Form 185-2N.2

6/14/23

CEMENTING JOB LOG

CEMENTING JOB LOG

Company: Berexco Inc				Well Name: Arnold Init 13-12			
Type Job: LONG STRING				AFE #:			
CASING DATA							
Size: 5 1/2		Grade:		Weight: 15.5			
Casing Depths		Top:		Bottom: 5514			
Tubing:		Size:		Weight:		DV Tool: 3196'	
Open Hole:		Size: 7 7/8		T.D. (ft):		Hole:	
CEMENT DATA							
Spacer Type:		10BBL Mud Flush					
Amt.		Sks Yield	0	ft³/sk		Density (PPG)	
LEAD:		Class A: 50/50/8, .3% C-19, 1/4# Celloflake				Excess	
Amt.	115	Sks Yield	368	ft³/sk	3.2	Density (PPG)	10.77
TAIL:		Class H: 10% Gyp., 10% Salt, 5#/sk Kol-Seal, .5% C-15				Excess	
Amt.	90	Sks Yield	139.5	ft³/sk	1.55	Density (PPG)	14.75
WATER:							
Lead:	115	gals/sk:	20	Tail:	90	gals/sk:	7
						Total (bbls):	69.8
Pump Trucks Used:		04, DP03					
Bulk Equipment:		218, 660-23 / 228, 660-20					
Disp. Fluid Type:		Water, Mud		Amt. (Bbls.): 55.1, 76.0		Weight (PPG): 8.3, 9.3	
COMPANY REPRESENTATIVE: Greg				CEMENTER: Daniel Beck			
TIME AM/PM	PRESSURES PSI			FLUID PUMPED DATA		REMARKS	
	Casing	Tubing	ANNULUS	TOTAL	RATE		
16:30						ON LOCATION & SAFETY MEETING	
						RIG UP	
21:30						RIG TO CIRCULATE	
22:08						RIG TO PT	
22:11						PRESSURE TEST TO 2500PSI	
22:16	500			10	4.8	PUMP 10BBL MUD FLUSH	
22:21	600			65.5slurry	6.1	PUMP 115SX LEAD @ 10.7#	
22:36	150			24.8slurry	3.1	PUMP 90SX TAIL @ 14.7#	
23:55						SHUTDOWN / DROP PLUG / WP	
23:03	250			10 thru 60	7.2	DISPLACE	
	300			70	6.2		
	350			80	7.5		
	400			90	6.7		
	600			100	6.3		
	750			110	5.3		
23:22	750			115	5.2	SLOW RATE TO 2.2BPM @ 700PSI	
	800			120	2.0		
23:28	850			131.2	2.0	LAND PLUG PRESSURE UP TO 1500PSI	
23:30						RELEASE BACK --- PLUG HELD	
23:33						DROP OPENING TOOL	
23:49						PUMP OPENING TOOL W/ 800PSI	
3:44						PLUG RAT & MOUSE W/ 50SX	
Company: Berexco Inc				Well Name: Arnold Init 13-12			
Type Job: LONG STRING				AFE #:			
Date: 6/14/2023		CEMENTING JOB LOG		QUASAR ENERGY SERVICES, INC. 185-2			



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Form 185-2N.2

6/14/23

CEMENTING JOB LOG

CEMENTING JOB LOG

Company: Berexco Inc **Well Name:** Arnold Init 13-12

Type Job: LONG STRING **AFE #:**

CASING DATA

Size:	5 1/2	Grade:		Weight:	15.5
Casing Depths	Top:	Bottom:	5514		
Tubing:	Size:	Weight:		DV Tool:	3196
Open Hole:	Size:	T.D. (ft):	7 7/8	Hole:	

CEMENT DATA

Spacer Type:					
Amt.		Sks Yield	0	ft ³ /sk	Density (PPG)
LEAD:	Class A: 50/50/8, .3% C-19, 1/4# Celloflake				Excess
Amt.	125	Sks Yield	400	ft ³ /sk	3.2
TAIL:	Class A: 50SX TO PLUG RAT & MOUSE				Excess
Amt.	100	Sks Yield	117	ft ³ /sk	1.17

WATER:	
Lead:	125
gals/sk:	20
Tail:	100
gals/sk:	5.2
Total (bbls):	71.9

Pump Trucks Used: 04, DP03
 Bulk Equipment: 218, 660-23 / 228, 660-20

Disp. Fluid Type:	Water	Amt. (Bbls.)	76	Weight (PPG):	8.3
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COMPANY REPRESENTATIVE: Greg **CEMENTER:** Daniel Beck

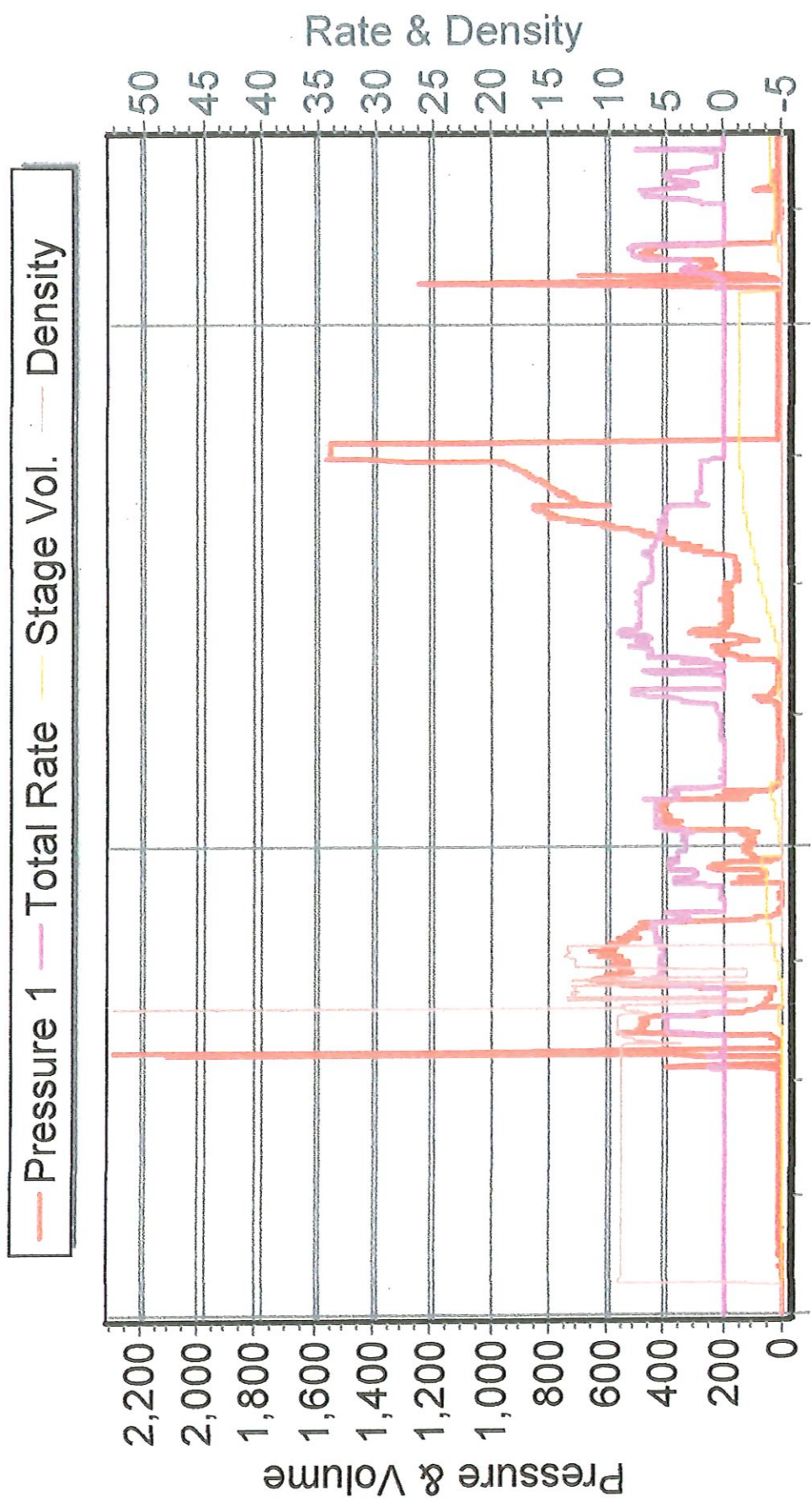
TIME	PRESSURES PSI			FLUID PUMPED DATA		REMARKS	
	AM/PM	Casing	Tubing	ANNULUS	TOTAL		RATE
3:55		350			71.2slurry	6.2	PUMP 125SX LEAD @ 10.7#
4:08		300			20.8slurry	6.0	PUMP 50SX TAIL @ 15.6#
4:12							SHUTDOWN / DROP CLOSING PLUG / WP
4:18		200			10	6.5	DISPLACE
		200			20	6.4	
		250			30	6.5	
		300			40	6.5	
		400			50	6.5	
		550			60	6.6	
4:30		600			66	6.3	SLOW RATE TO 2.0BPM @ 550PSI
		600			70	2.0	
4:35		650			76.0	2.1	LAND CLOSING PLUG / PRESSURE UP TO 1500PSI
4:37							RELEASE BACK --- PLUG DID NOT HOLD
							PRESSURE UP TO 1600PSI
4:40							RELEASE BACK --- PLUG HELD
							JOB COMPLETE

Company: Berexco Inc **Well Name:** Arnold Init 13-12

Type Job: LONG STRING **AFE #:**

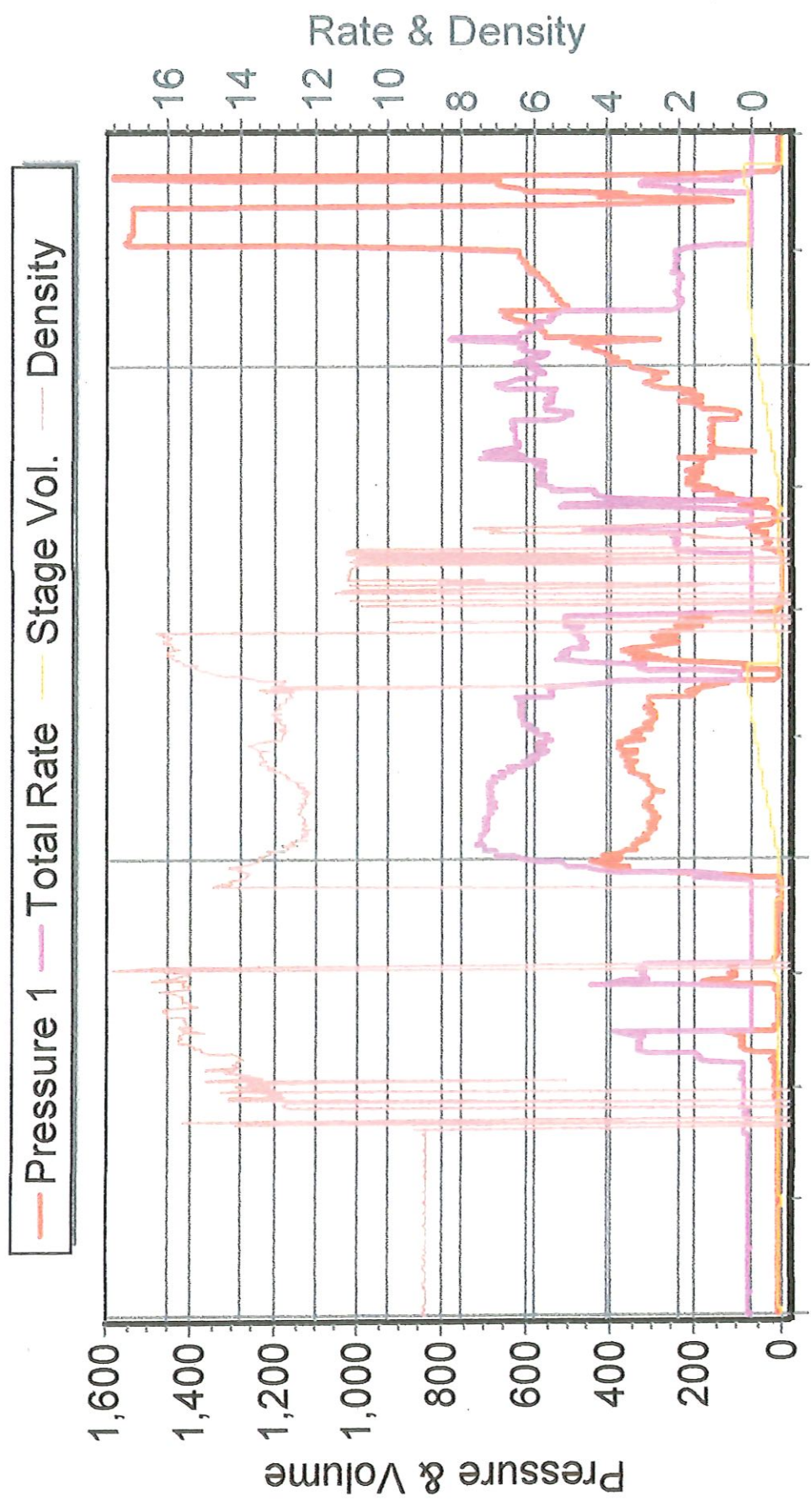
Date: 6/14/2023 **CEMENTING JOB LOG** QUASAR ENERGY SERVICES, INC. | 185-2

Berexco Inc Arnold Unit 13-12 Stage 1



6/14/2023 9:37:42 PM 6/14/2023 10:35:47 PM 6/14/2023 11:40:38 PM

Berexco Inc Arnold Unit 13-12 Stage 2



6/15/2023 3:24:16 AM 6/15/2023 3:52:52 AM 6/15/2023 4:23:57 AM

SUNBURST CONSULTING



A G E O L O G Y S E R V I C E

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

Well Name: Arnold Unit #13-12
Well Id: 15-187-21360
Location: SE NW NE NE Sec. 13, T29S-R41W Stanton County, Kansas
License Number: 34318
Spud Date: 6 JUN 23
Surface Coordinates: 475' FNL & 875' FEL
Region: Hugoton Embayment
Drilling Completed: 13 JUN 23

Bottom Hole
Coordinates:
Ground Elevation (ft): 3334' K.B. Elevation (ft): 3347'
Logged Interval (ft): 3500' To: 5560' Total Depth (ft): 5560'
Formation: KANSAS CITY thru ST. GENEVIEVE
Type of Drilling Fluid: Freshwater Chemical

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

OPERATOR

Company: BEREXCO, LLC
Address: 2020 North Bramblewood Drive
Wichita, Kansas 67206 1094

GEOLOGIST

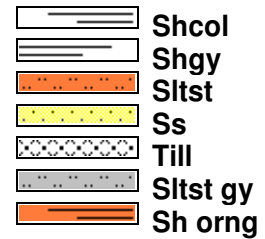
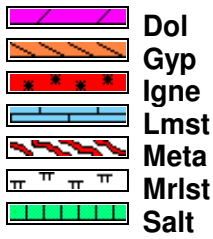
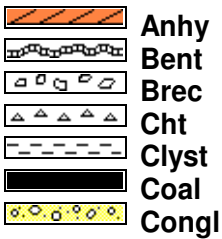
Name: Peter Vollmer WPG #3369
Company: Sunburst Consulting, Inc.
Address: 1645 Avenue D Suite E
Billings, Montana 59102
406-259-4124

SURVEYS

DSTs

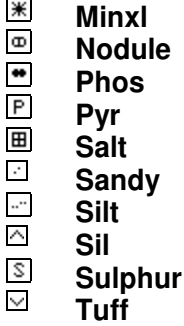
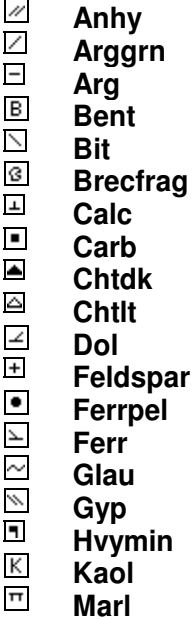
Comments

ROCK TYPES

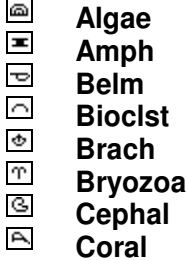


ACCESSORIES

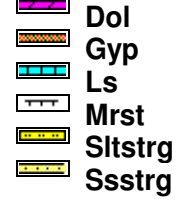
MINERAL



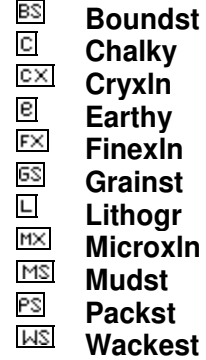
FOSSIL



STRINGER

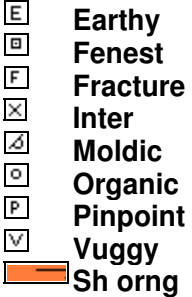


TEXTURE



OTHER SYMBOLS

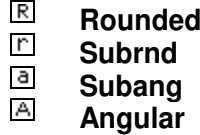
POROSITY



SORTING



ROUNDING



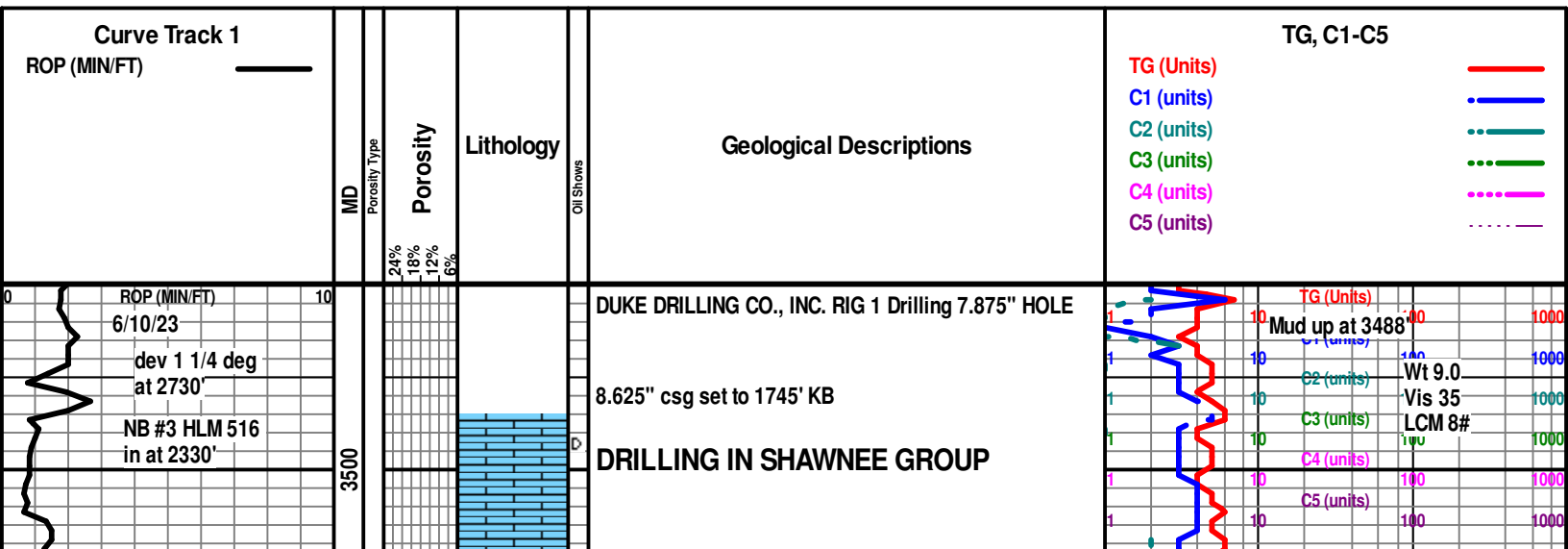
OIL SHOW



INTERVAL



EVENT



WOB 10K
RPM 110
PP 750
SPM 60

LS: lt gy - wh, hd -frm, mudst, fos frag (Fus, Brac),
sparry calc, v - mod chalky, wispy blk Styl features, tt,
mnrl flor, no shows

LS: wh - lt gy, with lt reddish brn stn, hd-frm, wackest -
mudst, occ micgran tex, occ fos frag, reddish brn SH
ptgs, occ ool, tr p-p vuggy por, mnrl flor, no shows

LS: lt gy - wh, hd - frm, mudst, fos frag (Fus, Brac),
sparry calc, sl - mod chalky, tt - tr por, mnrl flor, no
shows

SH: reddish brn - lt gy, sft-frm, sb blk, occ sl calc,
non-sl slty ip, occ thn Ls stringers

LS: lt tan - v lt brn, hd - frm, crpxln - micxln, rr fos frag,
tr lt tan Cht, occ gy Sh, tt, mnrl flor, no show

LS: crm - wh, frm-hd, mudst - wackest, occ fos frag, cln,
no vis por, mnrl flor, no shows

SH: lt gy - gy, tr blk, frm, blk - plty, non calc

LS: lt tan - v lt brn - lt gy, hd - frm, crpxln - micxln, fos
(Fus), tt - occ pr vuggy por, mnrl flor, no show

HEEBNER 3703' (Logs 3XX6' +147')

SH: gysh blk - blk, frm - brit, fis, n-sl calc, carb, no
flor, v wk pale grn resd cut

BASE HEEBNER 3712'

SH: pale bluish gy - bluish green,, frm, blk - plty, n
calc, sbwxy, dism pyr. LS: lt tn,

TORONTO 3724'

ROP (MIN/FT)

3550

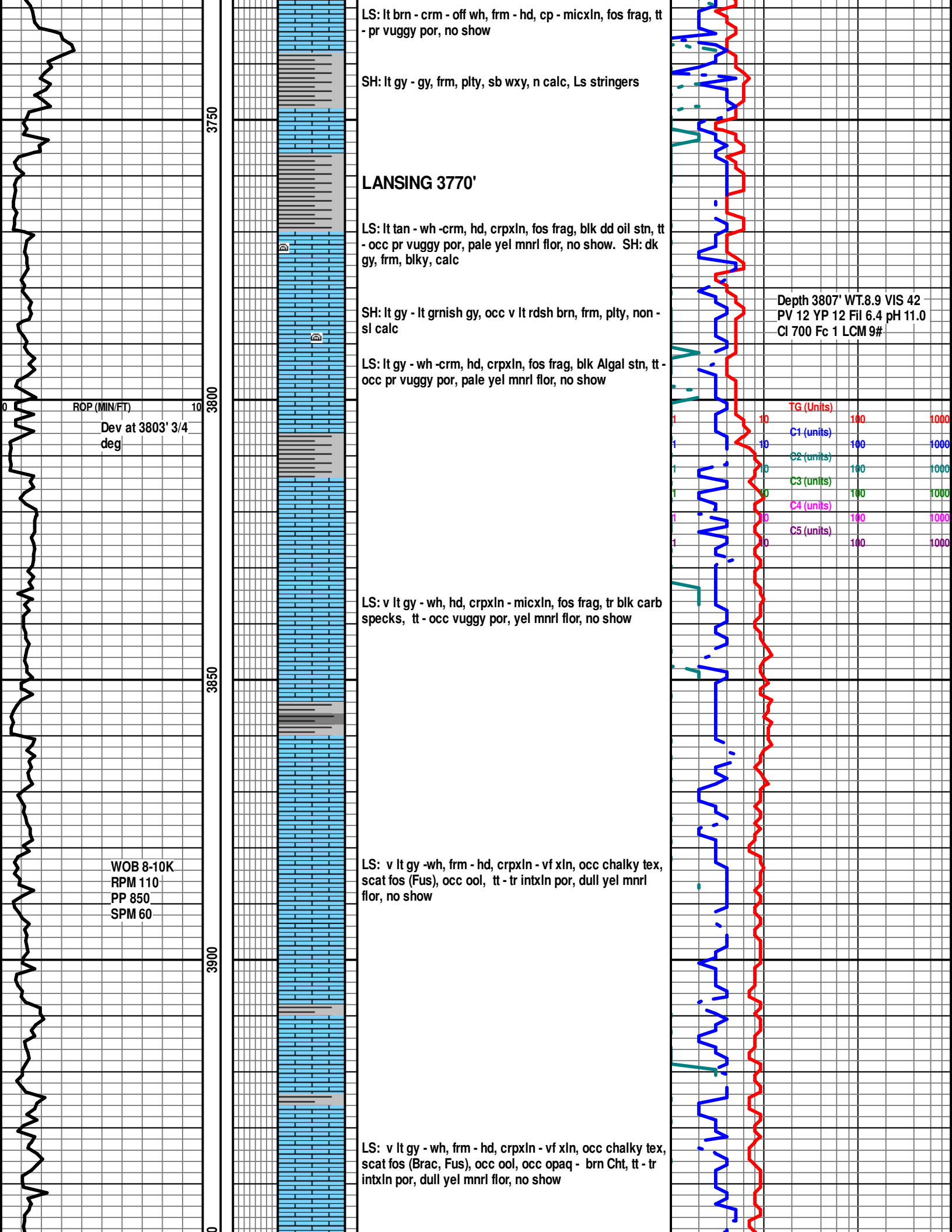
3600

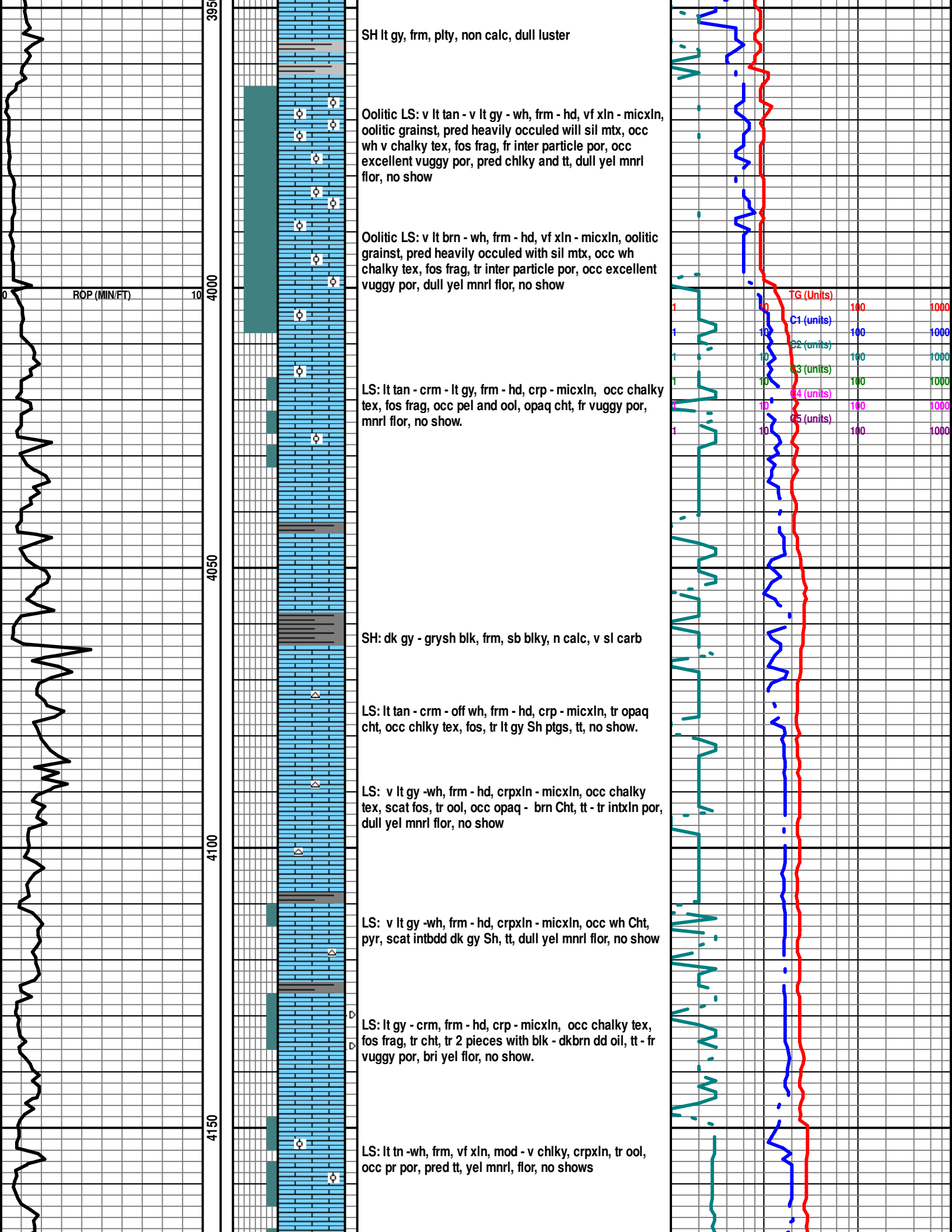
3650

3700

6/11/23

TG (Units)	100	1000
C1 (units)	100	1000
C2 (units)	100	1000
C3 (units)	100	1000
C4 (units)	100	1000
C5 (units)	100	1000





3950
4000
4050
4100
4150

ROP (MIN/FT)

SH lt gy, frm, plty, non calc, dull luster

Oolitic LS: v lt tan - v lt gy - wh, frm - hd, vf xln - micxln, oolitic grainst, pred heavily occluded with sil mtx, occ wh v chalky tex, fos frag, fr inter particle por, occ excellent vuggy por, pred chlky and tt, dull yel mnrl flor, no show

Oolitic LS: v lt brn - wh, frm - hd, vf xln - micxln, oolitic grainst, pred heavily occluded with sil mtx, occ wh chalky tex, fos frag, tr inter particle por, occ excellent vuggy por, dull yel mnrl flor, no show

LS: lt tan - crm - lt gy, frm - hd, crp - micxln, occ chalky tex, fos frag, occ pel and ool, opa q cht, fr vuggy por, mnrl flor, no show.

SH: dk gy - grysh blk, frm, sb blk, n calc, v sl carb

LS: lt tan - crm - off wh, frm - hd, crp - micxln, tr opa q cht, occ chlky tex, fos, tr lt gy Sh ptgs, tt, no show.

LS: v lt gy -wh, frm - hd, crpxln - micxln, occ chalky tex, scat fos, tr ool, occ opa q - brn Cht, tt - tr intxln por, dull yel mnrl flor, no show

LS: v lt gy -wh, frm - hd, crpxln - micxln, occ wh Cht, pyr, scat intbdd dk gy Sh, tt, dull yel mnrl flor, no show

LS: lt tn - crm, frm - hd, crp - micxln, occ chalky tex, fos frag, tr cht, tr 2 pieces with blk - dkbrn dd oil, tt - fr vuggy por, bri yel flor, no show.

LS: lt tn -wh, frm, vf xln, mod - v chlky, crpxln, tr ool, occ pr por, pred tt, yel mnrl, flor, no shows

TG (Units)

C1 (units)

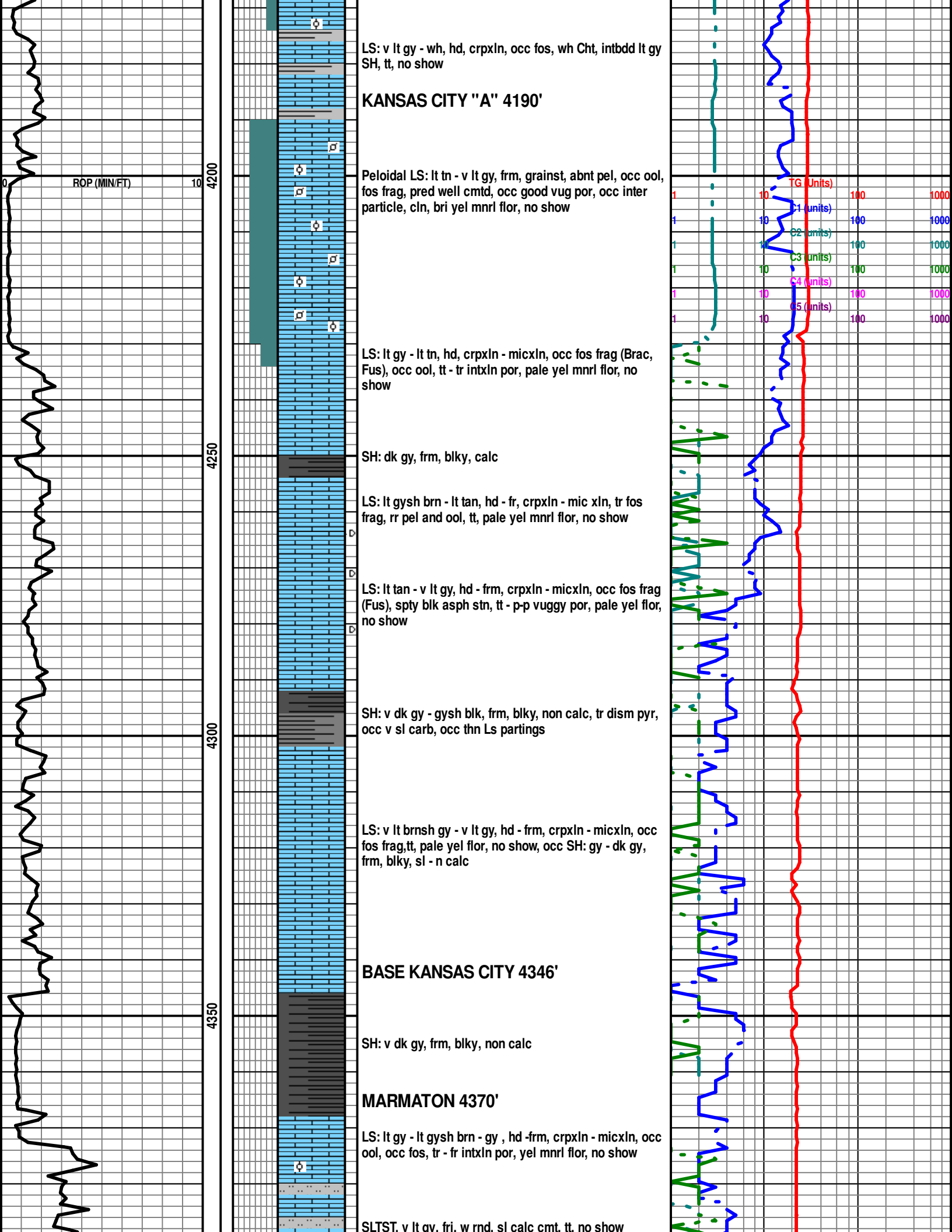
C2 (units)

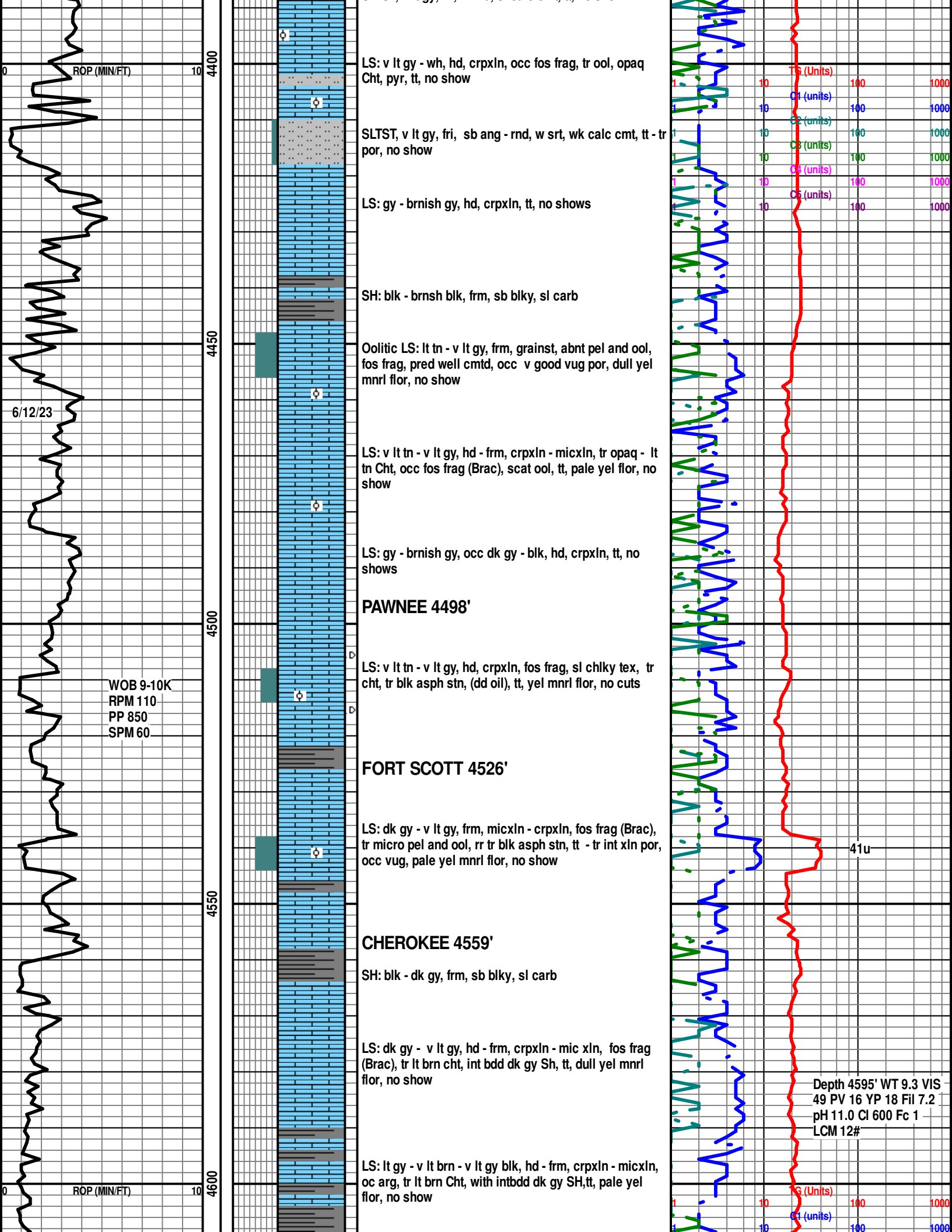
C3 (units)

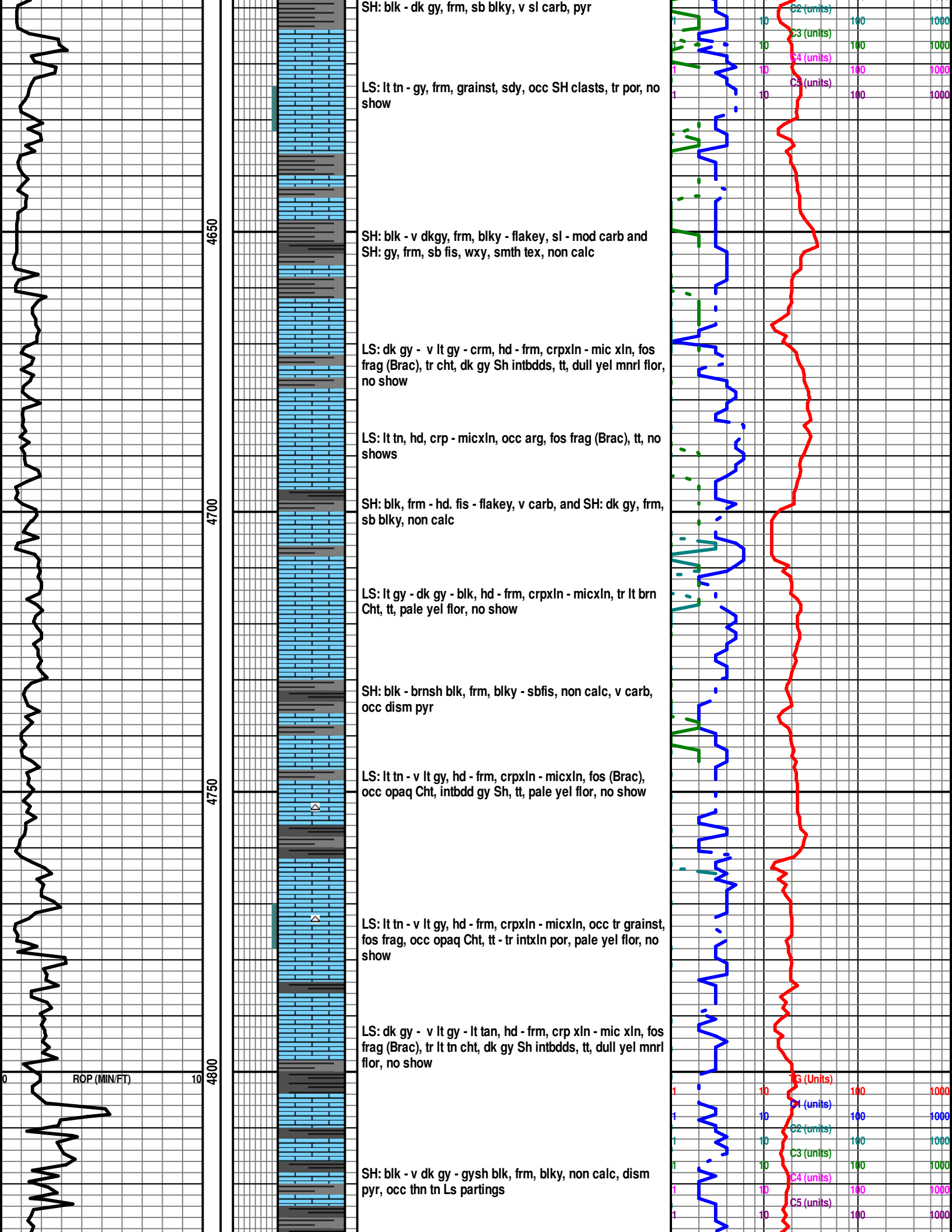
C4 (units)

C5 (units)

100 1000
100 1000
100 1000
100 1000
100 1000
100 1000







SH: blk - dk gy, frm, sb blk, v sl carb, pyr

LS: lt tn - gy, frm, grainst, sdy, occ SH clasts, tr por, no show

SH: blk - v dkgy, frm, blk - flakey, sl - mod carb and SH: gy, frm, sb fis, wxy, smth tex, non calc

LS: dk gy - v lt gy - crm, hd - frm, crpxln - mic xln, fos frag (Brac), tr cht, dk gy Sh intbdds, tt, dull yel mnrl flr, no show

LS: lt tn, hd, crp - micxln, occ arg, fos frag (Brac), tt, no shows

SH: blk, frm - hd. fis - flakey, v carb, and SH: dk gy, frm, sb blk, non calc

LS: lt gy - dk gy - blk, hd - frm, crpxln - micxln, tr lt brn Cht, tt, pale yel flr, no show

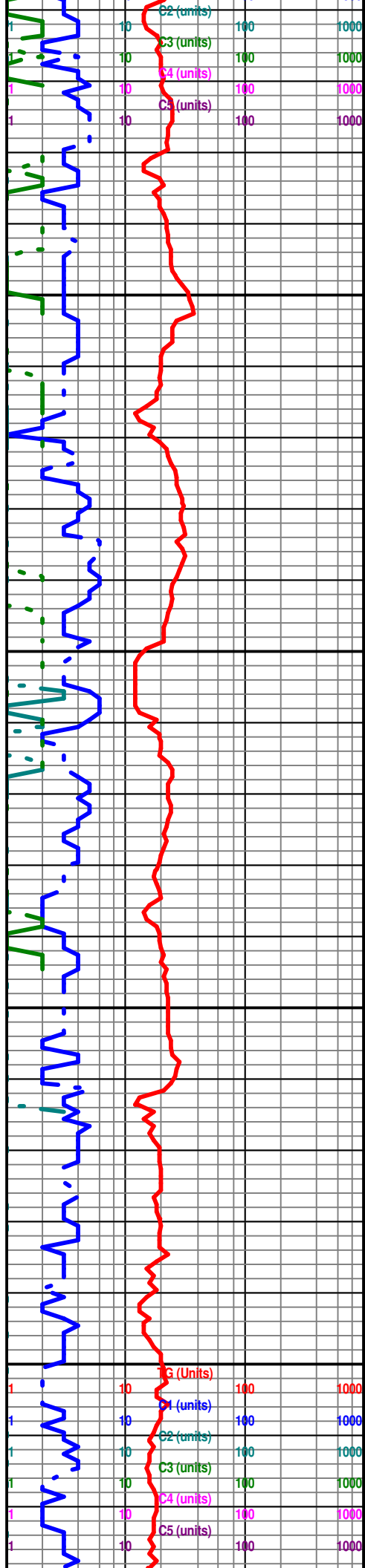
SH: blk - brnsh blk, frm, blk - sbfis, non calc, v carb, occ dism pyr

LS: lt tn - v lt gy, hd - frm, crpxln - micxln, fos (Brac), occ opa q Cht, intbdd gy Sh, tt, pale yel flr, no show

LS: lt tn - v lt gy, hd - frm, crpxln - micxln, occ tr grainst, fos frag, occ opa q Cht, tt - tr intxln por, pale yel flr, no show

LS: dk gy - v lt gy - lt tan, hd - frm, crp xln - mic xln, fos frag (Brac), tr lt tn cht, dk gy Sh intbdds, tt, dull yel mnrl flr, no show

SH: blk - v dk gy - gysh blk, frm, blk, non calc, dism pyr, occ thn tn Ls partings



ROP (MIN/FT)

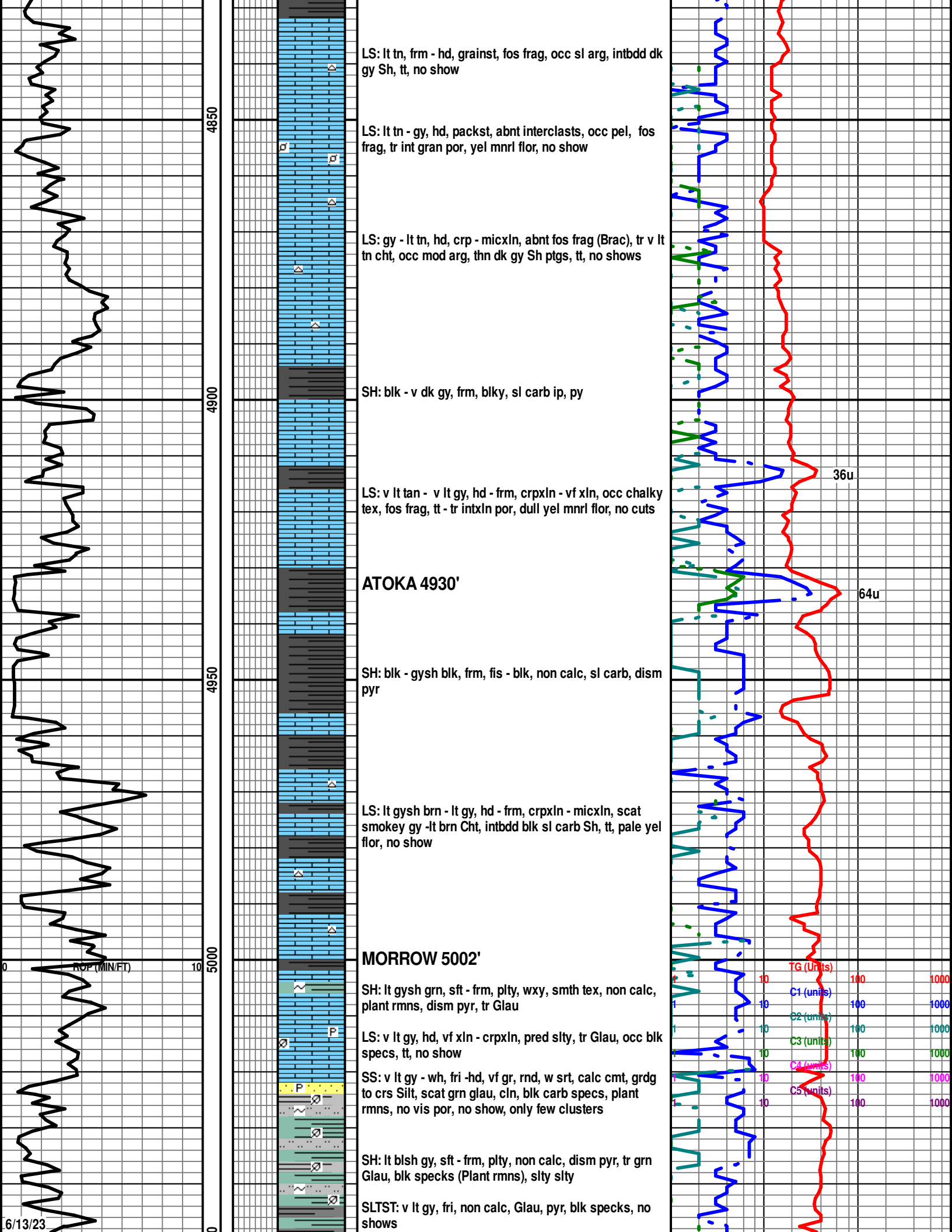
C1 (units)

C2 (units)

C3 (units)

C4 (units)

C5 (units)



LS: lt tn, frm - hd, grainst, fos frag, occ sl arg, intbdd dk gy Sh, tt, no show

LS: lt tn - gy, hd, packst, abnt interclasts, occ pel, fos frag, tr int gran por, yel mnrl flr, no show

LS: gy - lt tn, hd, crp - micxln, abnt fos frag (Brac), tr v lt tn cht, occ mod arg, thn dk gy Sh ptgs, tt, no shows

SH: blk - v dk gy, frm, blk, sl carb ip, py

LS: v lt tan - v lt gy, hd - frm, crpxln - vf xln, occ chalky tex, fos frag, tt - tr intxn por, dull yel mnrl flr, no cuts

ATOKA 4930'

SH: blk - gysh blk, frm, fis - blk, non calc, sl carb, dism pyr

LS: lt gysh brn - lt gy, hd - frm, crpxln - micxln, scat smokey gy -lt brn Cht, intbdd blk sl carb Sh, tt, pale yel flr, no show

MORROW 5002'

SH: lt gysh grn, sft - frm, plty, wxy, smth tex, non calc, plant rmns, dism pyr, tr Glau

LS: v lt gy, hd, vf xln - crpxln, pred slty, tr Glau, occ blk specs, tt, no show

SS: v lt gy - wh, fri -hd, vf gr, rnd, w srt, calc cmt, grgd to crs Silt, scat grn glau, cln, blk carb specs, plant rmns, no vis por, no show, only few clusters

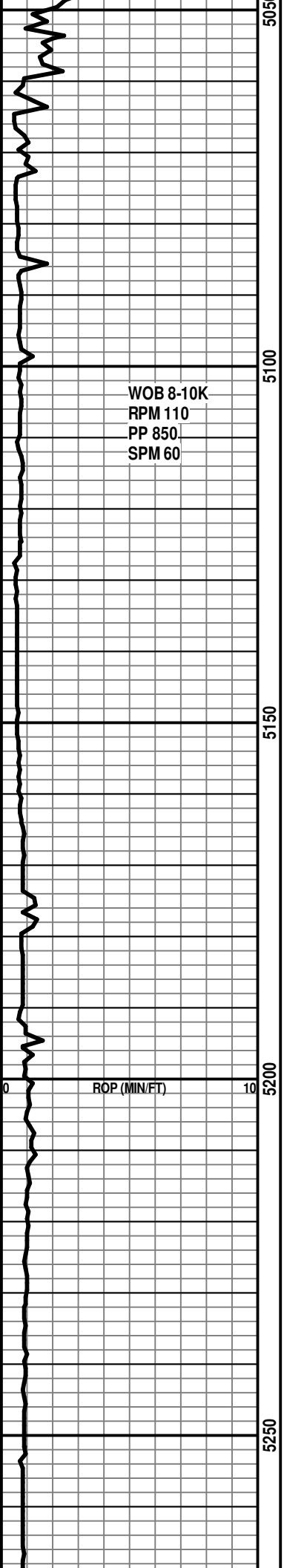
SH: lt blsh gy, sft - frm, plty, non calc, dism pyr, tr grn Glau, blk specks (Plant rmns), slty slty

SLTST: v lt gy, fri, non calc, Glau, pyr, blk specks, no shows

36u

64u

TG (Units) 100 1000
 C1 (units) 100 1000
 C2 (units) 100 1000
 C3 (units) 100 1000
 C4 (units) 100 1000
 C5 (units) 100 1000



WOB 8-10K
RPM 110
PP 850
SPM 60

505
5100
5150
5200
5250

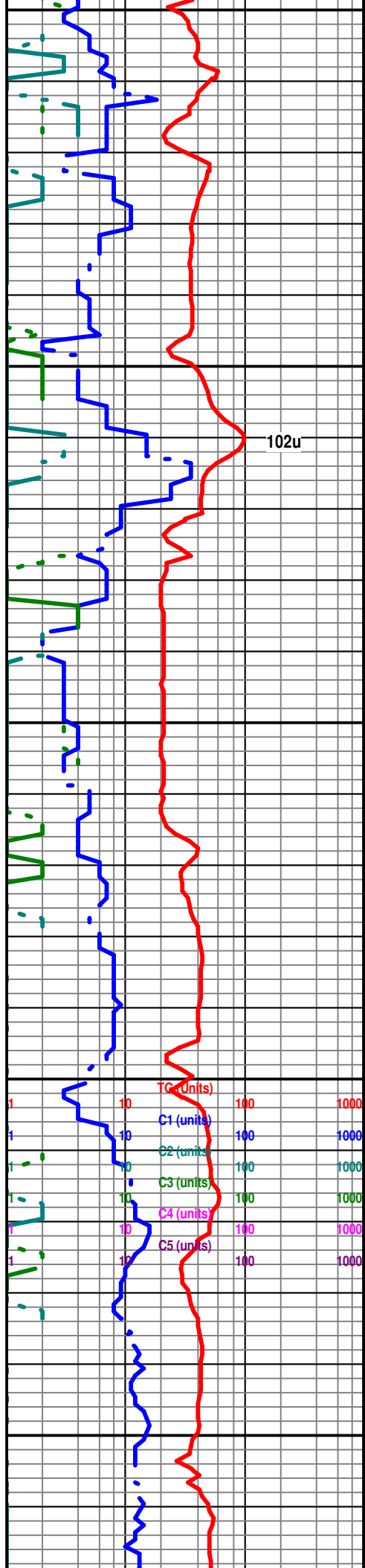
SH: dk gy - blk, frm, fis - sb blk, n calc, sl carb, dism pyr

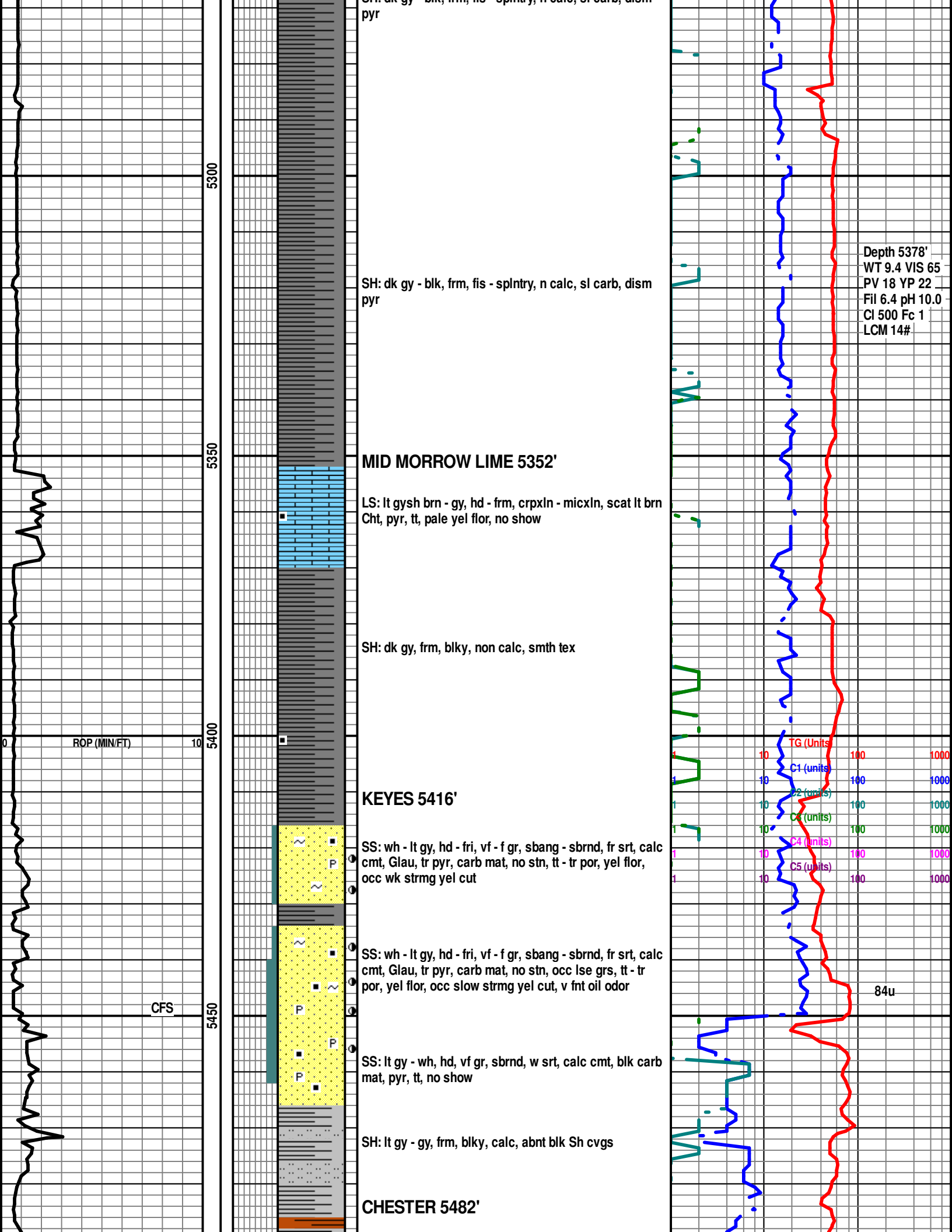
SH: dk gy - blk, frm, fis - sb blk, n calc, sl carb, dism pyr

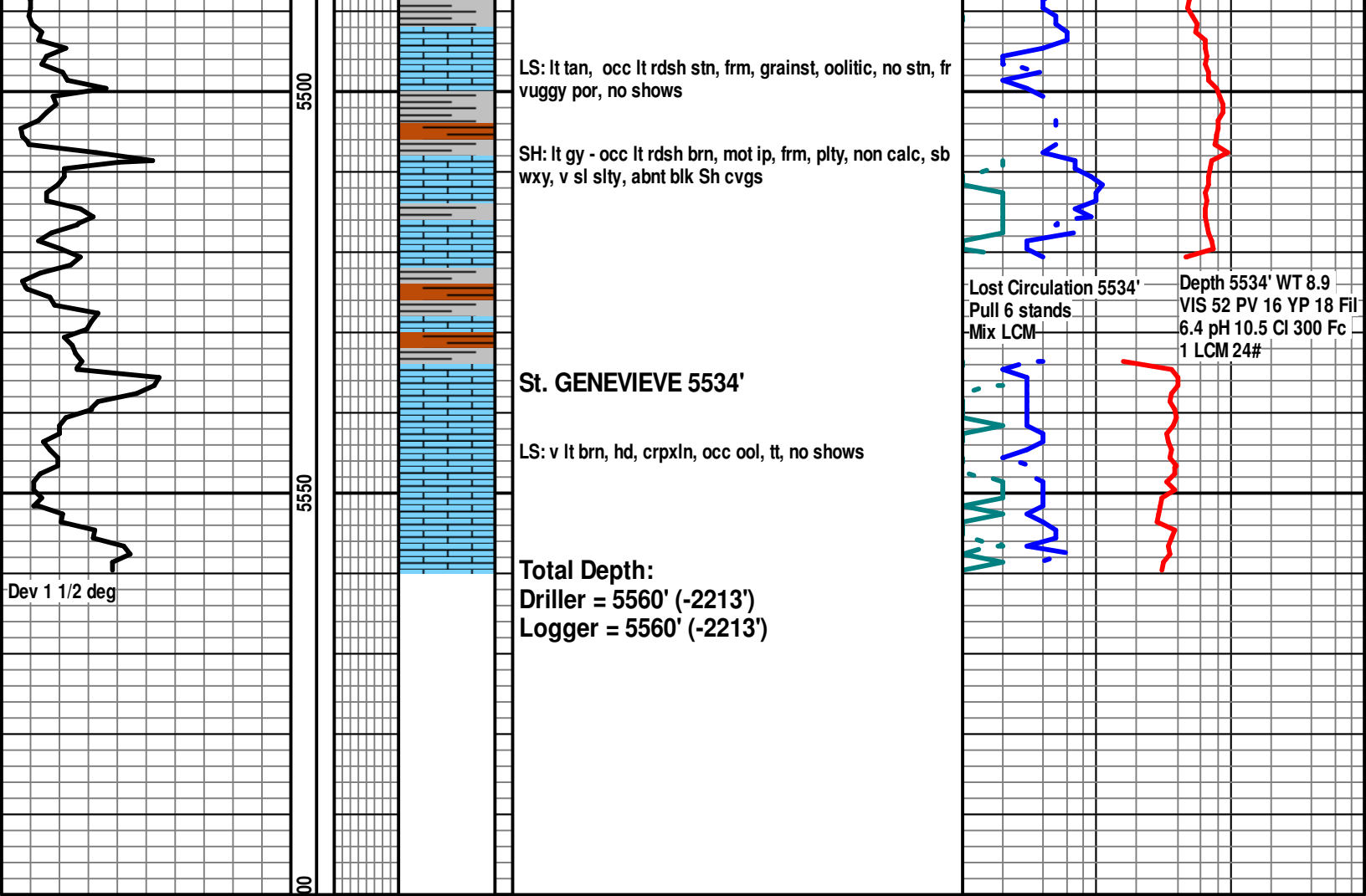
SH: dk gy - blk, frm, fis - sb blk, n calc, sl carb, dism pyr

SH: dk gy - blk, frm, fis - splntry, n calc, sl carb, dism pyr

SH: dk gy - blk, frm, fis - splntry, n calc, sl carb, dism pyr









DUKE DRILLING

DAILY DRILLING REPORT

TOOLPUSHER Alche Costry DAYS FROM SPUD 3 DATE 06-09-23
 NAME Arnold Unit 13-12 OPERATOR B. G. V. A. C. LEGALS 12-29-41
 H 1951 FOOTAGE LAST 24 HOURS 206 FORMATION _____
 NT OPERATION D. 1g NO. DAYS SINCE LAST LTA _____ HRS WORKED 24
 PRES 600 GPM 268 SPM#160 SPM#2 _____

SIZE	TYPE	SERIAL #	JET SIZE	IN	OUT	FOOTAGE	HRS	FT/HR	WOB	RPM
	FLUSH	9008	5-13	1745	03	206	4 1/4	43.3	6-8	100 f

DC	LENGTH	WT	AV/DP	DC	OTHER

MUD MIXED	GEL	CAU	C/F	HULLS	BAR	DRIS	THIN
	60	4		5		1	
	LIME	DESCO	LIG	S.ASH	DESCO		
			3	6			

OTHER _____ VOL. HOLE _____ VOL. PITS Towels 66 lbs
 DMCS 4,306 TMC\$ 6,993 MUD CO. Servco Prod MUD ENG _____
 Wt In/Out 8-6 27 Gals 0/10 _____ WL LT/HT _____ pH _____ % Sand _____ % Solids _____ % Oil _____ % LCM _____ Chloride ppm _____ CA ppm _____ ALKM PF _____ MF _____ F In/Out _____
1745-17 FUEL ON HAND 14-441 LAST 24 HRS. 346 FOR WELL 1088

PRICE _____ FUEL DEL. _____

END	Hr	Min	OPERATION	DEPTH	TIME DIST	TODAY	CUM
7:30		30	CTCH		RU/RD		
8:30	1		Drills & Totl		Drig	4 3/4	
10:30	2		70 Csg Crew & Run 8 7/8		Ream/Wash		
1:00		30	Circ Csg		Survey		
2:30	1	30	Cmt Csg		Trip	3 1/2	
3:00	2	30	WOC		Rig Serv		
5:30	5	30	WOC		Circ/Cond	1	
7:00		30	T/H		Run Csg/Cmt	2-1 1/2	
7:30		30	Test BOP @ 300 PSI 15 mls		WOC	8	
8:45	1	15	Drills Cmt @ Plug		NU/TST/BOP		
9:06	15	15	Drill FI 1745-1853		Repair	1	
1:45	45	45	Drill FI 1753-1785		Log		
1:45	2		Bit Trip		Fish		
1:45	1		Drill FI 1785-1816		DST		
1:45	1		RR		WOO		
2:00	3	15	Drill FI 1816-		Test BOP	1/2	
					Drills Plus	1 1/4	
					Conn	1/2	
					Misc.		
					TOTAL	24	

40 JPTS OF 898 CSG 24 LB _____ GRADE _____ TOTAL FEET SET 1741
 QUASAR WITH 600.5X 69.35 POTZ. 20cc 1/4 Flake
 COMMENTS 1500X CLASS A 20% CC
Plugdown @ 12:30 PM
Circ Cement