

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
--	---

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
---	--	------------------------------------

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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Stelbar Oil Corporation, Inc.
Well Name	DAWSON TRUST 1-1
Doc ID	1362550

All Electric Logs Run

Array Induction Shallow Focused Elec. Log.
Compact Photo Density Comp. Neutron Microresistivity Log
Comp. Sonic w/Integrated Transit Times
Microresistivity Log
Caliper Log

Form	ACO1 - Well Completion
Operator	Stelbar Oil Corporation, Inc.
Well Name	DAWSON TRUST 1-1
Doc ID	1362550

Tops

Name	Top	Datum
Anhydrite	2450	+824
Stotler Lst.	3463	-189
Heebner Sh.	3816	-542
Muncie Creek Sh.	4040	-766
Stark Sh.	4136	-862
Marmaton	4254	-980
Pawnee Lst.	4334	-1060
Cherokee Sh.	4394	-1120
Johnson Zone	4470	-1196
Morrow Sh.	4582	-1308
Miss	4701	-1427



Service Order #: 75197C

Date: 01-Jul-17

Well Name	Location	County	St	API#		
DAWSON TRUST 1-1		WALLACE	KS	15-199-20441		
Formation	Cement Via	Type Of Service	Well Type	Age	AFE#	PO#
	CASING	SURFACE	OIL	NEW		

Customer: STALBAR OIL CORPORATOIN

Remarks: * Pumped: 37.7 bbls / 175 sks

Customer Rep: ALAN LOSTIS PH:

Type	Size	Weight	Depth	Volume
Surface Casing:	8.625	24.0	312.0	
Production Casing:				
Intermediate:				
Drill Pipe:				
Tubing:				

BHT	Max PSI	Total Depth
	1,500	314.0

Packer or Retainer Type / Depth:

Type	Size	Depth (Top)	Depth (Bot)	Volume
Liner:				
Open Hole:	12.250	0.0	314.0	

Perf Depths:	#	Total
	0	0
	0	
	0	

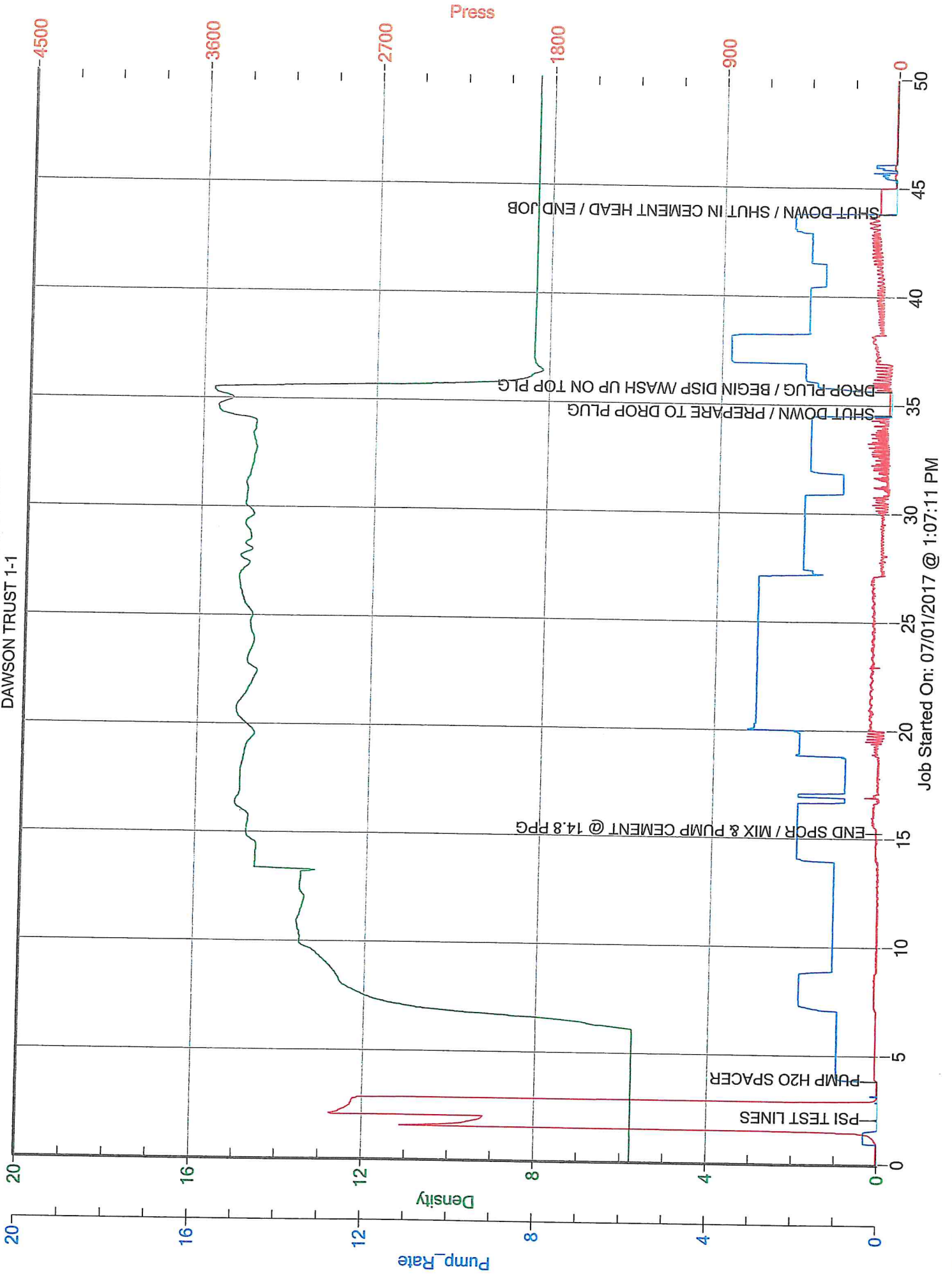
TIME	PUMP RATES		DENSITY (lb/gl)	PRESS (psi)	STG TOT (bbls)	TOTAL (bbls)	REMARKS
	WATER (gpm)	PUMP (bpm)					
13:09	0	0.1	5.78	2,860		0.2	PSI TEST LINES
13:11	0	0.0	5.78	6		0.0	PUMP H2O SPACER
13:22	0	2.0	14.81	40		15.0	END SPCR / MIX & PUMP CEMENT @ 14.8 PPG
13:42	0	0.0	15.65	19		43.1	SHUT DOWN / PREPARE TO DROP PLUG
13:43	0	0.0	14.15	12		0.0	DROP PLUG / BEGIN DISP / WASH UP ON TOP PLG
13:51	0	2.3	8.34	89		18.5	SHUT DOWN / SHUT IN CEMENT HEAD / END JOB

Summary

Max Fl. Rate Avg Fl. Rate Max Psi Avg Psi
 2.3 1.1 2,872 51

Customer Acknowledgement:	Service Rating:	Cementer:	PRODUCTS USED
	<input type="checkbox"/> Satisfactory <input type="checkbox"/> Unsatisfactory	CORY THAUT	

STELBAR OIL CORPORATION
DAWSON TRUST 1-1





W & I
8425

TICKET NUMBER 53558
LOCATION Oakley Ks
FOREMAN Jerry Y

PO BOX 607, CHANDLER, KS 66120
620-431-9210 or 800-467-8676

WELL TICKET & TREATMENT REPORT
CEMENT

Invoice # 810701

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-8-17	7396	Dawson Trust 1-1	1	145	38W	Wallace
CUSTOMER Stelbar			Walker 6 E 2 1/2 S 1/4 E 2 1/2 SW into			
MAILING ADDRESS 1625 N. Waterfront Pkwy, Ste. 200			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY Wichita			753	Travis W		
STATE KS			566	Seth O		
ZIP CODE 67205-6602			639			

JOB TYPE plug HOLE SIZE 7 7/8 HOLE DEPTH 4785 CASING SIZE & WEIGHT _____
CASING DEPTH _____ DRILL PIPE 4 1/2 TUBING _____ OTHER _____
SLURRY WEIGHT 13.8 SLURRY VOL 1.42 WATER gal/sk _____ CEMENT LEFT in CASING _____
DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Salty meeting orig up on starting #5 plugs ordered with 255 sks 60/sk
48 1/2 # 910
50 sks @ 2460'
100 sks @ 1450'
30 sks @ 360'
10 sks @ 40' with 8 5/8 wooden plug
15 sks Mlt 30 sks RH

Thank you
Jerry & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0451	1	PUMP CHARGE	1900.00	1900.00
CE0002	45	MILEAGE	7.15	321.75
CE0710	10.97	ton mileage delivery	1.75	863.89
CC5829	255 sks	lite blend II	16.00	4080.00
CP8228	1	8 5/8 wooden plug	165.00	165.00
CC6075	64 #	flo seal	3.00	192.00
			346.64	7522.64
			30%	2256.79
			subtotal	5265.85
			SALES TAX	201.88
			ESTIMATED TOTAL	5476.73

AUTHORIZATION Jerry Y TITLE Tool-pusher DATE 7-8-17

acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form

GEOLOGIC REPORT

DAVID J. GOLDAK

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

Well Name: Dawson Trust #1-1
Location: Section 1 - T14S - R38W
License Number: API: 15-199-20441
Spud Date: 06 / 30 / 2017
Surface Coordinates: 425' FNL and 1068' FWL
SE - NE - NW - NW

Region: Wallace Co., KS
Drilling Completed: 07 / 07 / 2017

Bottom Hole
Coordinates:
Ground Elevation (ft): 3261' K.B. Elevation (ft): 3274'
Logged Interval (ft): 3400' To: 4785' Total Depth (ft): 4785'
Formation: Mississippian - St Louis
Type of Drilling Fluid: Chemical - Mud-Co

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

OPERATOR

Company: Stelbar Oil Corporation
Address: 1625 N. Waterfront Pkwy., Suite 200
Wichita, Kansas 67206-6602

GEOLOGIST

Name: David J. Goldak
Company: D. J. GOLDAK, INC.
Address: 155 N. Market, Suite 710
Wichita, Kansas 67202

General Info

CONTRACTOR: Sterling Drilling, Rig #5

BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	12-1/4	JZ-HAOTC	4-16s	314	314	3.50
2	7-7/8	JZ-HAIPG	3-15s	398	84	0.75
3	7-7/8	JZ-PLT516	5-15s	3796	3398	42.75
4	7-7/8	JZ-HA20	3-18s	4785	989	63.00

SURVEYS: 314'-1.00; 3796'-0.25; 4785'-1.00

GENERAL DRILLING & PUMP INFORMATION:

Collars: 18 joints of collars (6.25"x2.25"): 532.85'
Drilling w/ PDC: 14,000-16,000 lbs on bit and 100-105 RPM.
Pumping w/ PDC: 70 S/M; 10.8 B/M; 900-950 psi at standpipe.
Drilling w/ Conv: 38,000-40,000 lbs on bit and 70-75 RPM.
Pumping w/ Conv: 60 S/M; 9.2 B/M; 800-950 psi at standpipe.



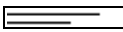

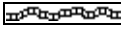



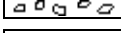

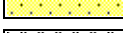
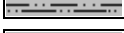
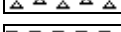

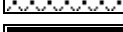

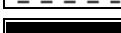


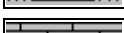

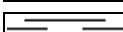



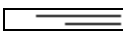




Daily Status

06/30/17 - Spud at 9:30 PM; Drilling delayed by cements
 07/01/17 - 314' Drilling; Set 8-5/8" csg @ 309'; Bit trip @ 398'
 07/02/17 - 870' Drilling
 07/03/17 - 2,830' Drilling
 07/04/17 - 3,770' Drilling; Bit trip @ 3,796'
 07/05/17 - 4,078' Drilling
 07/06/17 - 4,404' Drilling
 07/07/17 - 4,685' Drilling; Log in PM

DSTs
























None








ROCK TYPES

 Anhy	 Gyp	 Shgy	 Sandylms
 Bent	 Igne	 Slstst	 Shale
 Brec	 Lmst	 Ss	 Slststn
 Cht	 Meta	 Till	 Shlyslts
 Clyst	 Mrlst	 Carb sh	 Sltysh
 Coal	 Salt	 Dol	 Lms
 Congl	 Shale	 Dtd	
 Dol	 Shcol	 Gry sh	













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
	Chlorite
	Dol
	Sand
	Slty

FOSSIL

	Algae
	Amph
	Belm
	Bioclst
	Brach
	Bryozoa
	Cephal
	Coral
	Crin
	Echin
	Fish
	Foram












	Fossil
	Gastro
	Oolite
	Ostra
	Pelec
	Pellet
	Pisolite
	Plant
	Strom
	Fuss
	Oomold

STRINGER

	Anhy
	Arg
	Bent
	Coal
	Dol
	Gyp
	Ls
	Mrst
	Slststrg
	Ssstrg
	Carbsh

	Clystn
	Dol
	Grysh
	Gryslt
	Lms
	Sandylms
	Sh
	Slststn

TEXTURE

	Boundst
	Chalky
	Cryxln
	Earthy
	Finexln
	Grainst
	Lithogr
	Microxln
	Mudst
	Packst
	Wackest

OTHER SYMBOLS

POROSITY TYPE

- E Earthy
- F Fenest
- X Fracture
- I Inter
- M Moldic
- O Organic
- P Pinpoint
- V Vuggy

SORTING

- W Well
- M Moderate
- P Poor

ROUNDING

- R Rounded
- F Subrnd
- a Subang
- A Angular

OIL SHOWS

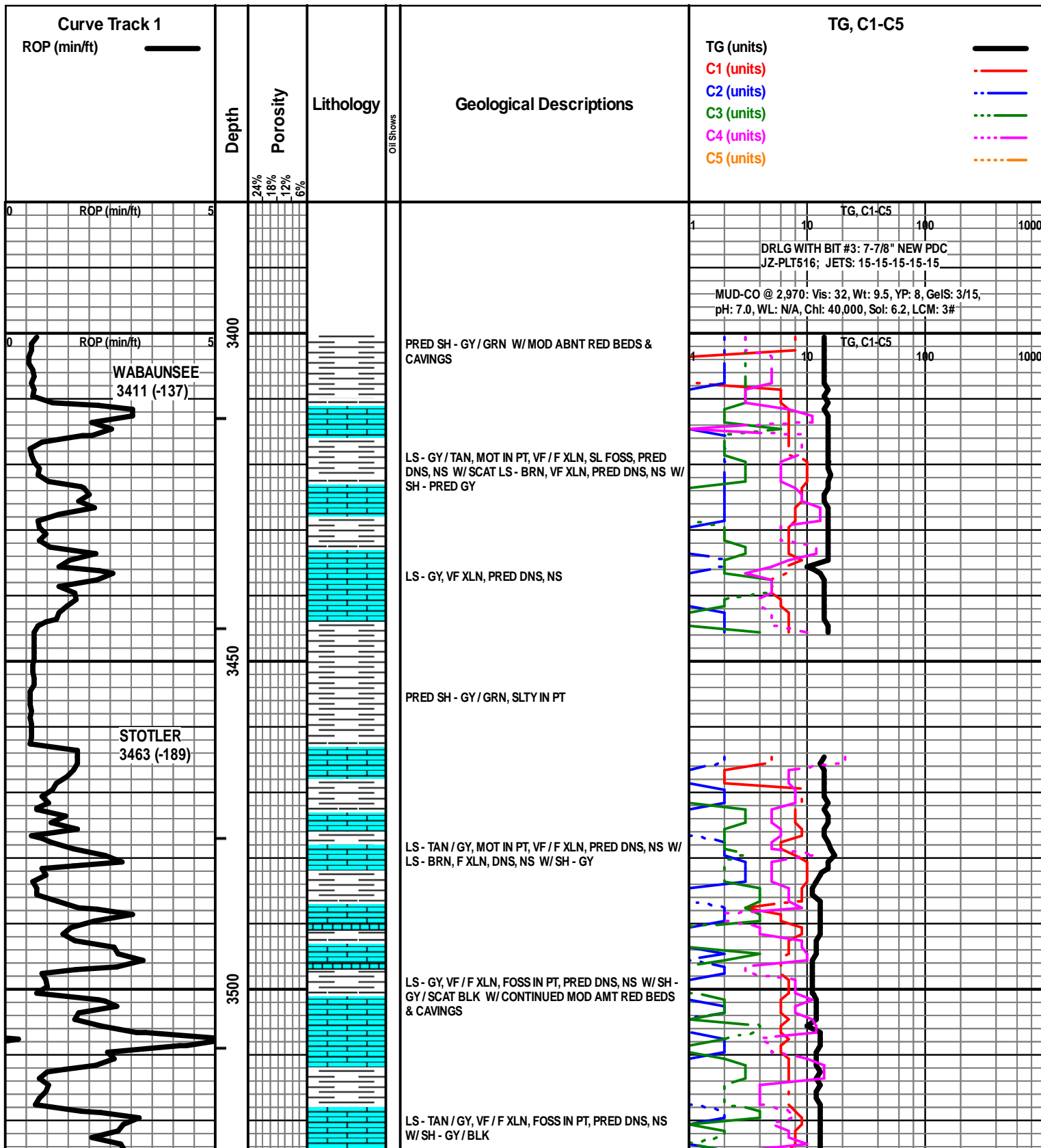
- Even
- ◉ Spotted
- ◻ Ques
- ◻ Dead
- ⊠ Gas show

INTERVALS

- Core
- Dst

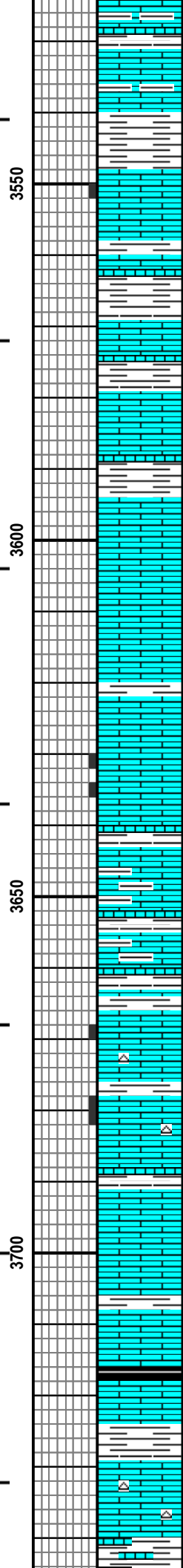
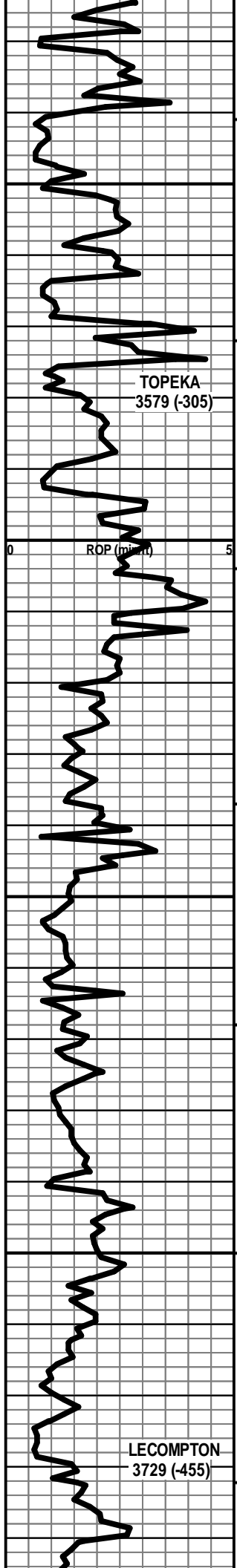
- Dst_1_t
- Dst_1_b
- Dst

- #### EVENTS
- ▽ Rft
 - ▾ Sidewall
 - ▬ Conn



DRLG WITH BIT #3: 7-7/8" NEW PDC
JZ-PLT516; JETS: 15-15-15-15-15

MUD-CO @ 2,970: Vis: 32, Wt: 9.5, YP: 8, GelS: 3/15,
pH: 7.0, WL: N/A, Chl: 40,000, Sol: 6.2, LCM: 3#



LS - TAN / BRN, VF / F XLN, PRED DNS, NS W/ SH - PRED GY W/ LS - CRM / TAN / WHT, MOT IN PT, F / VF XLN, FOSS IN PT, TR INTXLN POR, NS

LS - CRM / WHT / TAN, MOT IN PT, F / VF XLN, FOSS IN PT, PRED DNS, NS W/ LS - GY, F XLN, PRED DNS, NS W/ SH - GY

LS - GY, AS ABOVE, PRED DNS, NS W/ LS - TAN / CRM / SCAT WHT, MOT IN PT, FOSS, SCAT SUBCHKY, PRED DNS, NS

LS - CRM / TAN / WHT, VF / F XLN, OOL + FOSS IN PT, PRED CHKY, NS W/ SHLYCHK - GY / CRM / TAN, MOT, NO VIS POR, NS

LS - CRM / WHT / SCAT TAN, MOT IN PT, F / VF XLN, FOSS + OOL IN PT, TR P INTXLN POR, CHKY IN PT, VSS DEAD OIL, NSFO, NO ODOR

LS - V SIM TO ABOVE, NSFO, NO ODOR W/ SCAT LS - GY / TAN, MOT, F XLN, DNS, NS

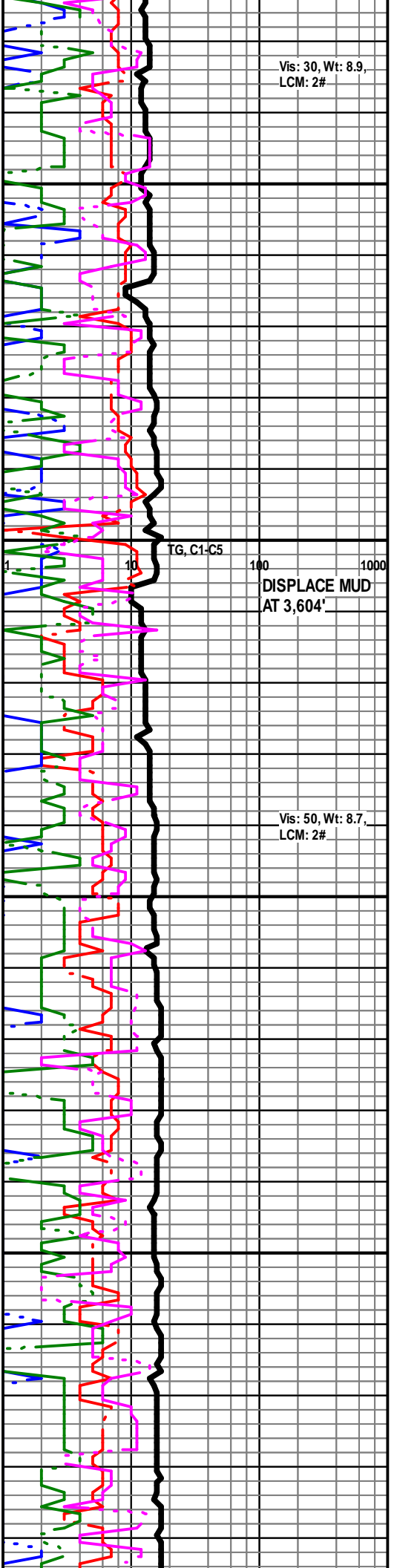
LS - GY / TAN / CRM, MOT, VF / F XLN, PRED DNS, NS W/ LS - CRM / WHT, F / VF XLN, FOSS, TR PPT POR, NS W/ SH - GY

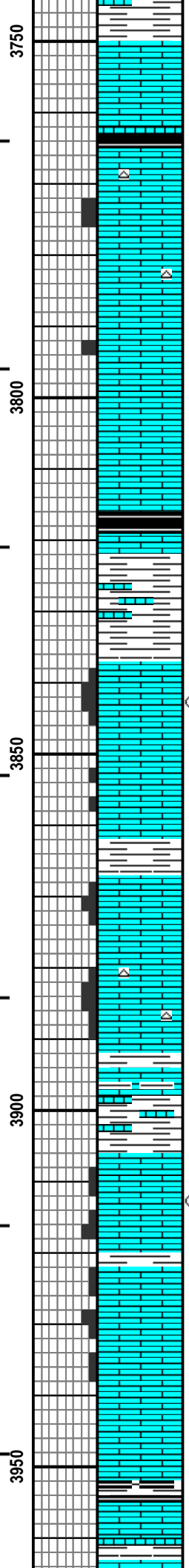
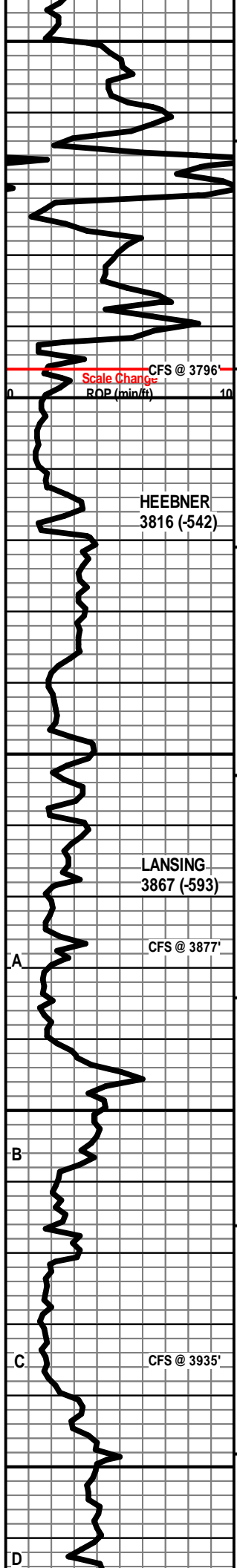
LS - CRM / TAN / WHT, F / VF XLN, SL FOSS, SCAT PPT + VUG POR, CHKY IN PT, NS W/ SCAT CHT - WHT

LS - TAN / GY, MOT IN PT, F XLN, PRED DNS, NS

LS - AS ABOVE, NS W/ LS - TAN / BRN, F XLN, SCAT M REXLN CALC, FOSS IN PT, PRED DNS, NS W/ SS - GY / CRM, VF GR, SLTY IN PT, NS

LS - TAN / CRM / WHT, VF / F XLN, SL FOSS + OOL, CHKY IN PT, PRED DNS, NS W/ SCAY CHT - WHT W/ SH - GY / BRN





SH - CRM / BRN

LS - CRM / WHT / SCAT TAN, VF / F XLN, SL FOSS, CHKY IN PT, TR P PPT + VUG POR, NS

LS - TAN / CRM / WHT, F XLN, OOL, FOSS IN PT, SCAT P / F MOLDIC + VUG POR, SCAT CHKY, NS W/ SCAT CHT - WHT

LS - ASABOVE, P / F MOLDIC + VUG POR, SCAT CHKY, NS

LS - TAN / CRM / WHT, F / VF XLN, FOSS IN PT, SCAT OOL, PRED INTPART + PPT POR, CHKY IN PT, NS

SH - BLK, CARB W/LS - TAN / BRN, F XLN, SL FOSS, DNS, NS W/SH - GY W/CALC SS + ARGIL/ AREN LS - GY / TAN, MOT, OOL IN PT, DNS, NS

LS - CRM, F XLN, SCAT REXLN CALC, OOL IN PT, P / F VUG + INTPART POR, P / F SHOW DEAD OIL, PSFO + GB, V FT ODOR, SPTY BRN / BLK STN, G FLUOR + CUT

LS - CRM / WHT, F / VF XLN, OOL + FOSS IN PT, SCAT P INTPART + PPT POR, CHKY IN PT / DNS, NS

LS - CRM / TAN, F XLN, OOL, SCAT P / F INTOOL + VUG POR, TR P OOM POR, NSFO, TR DEAD STN

CRM / TAN / SCAT WHT, F XLN, FOSS + OOL IN PT, P / F VUG POR, NS W/ CHT - WHT

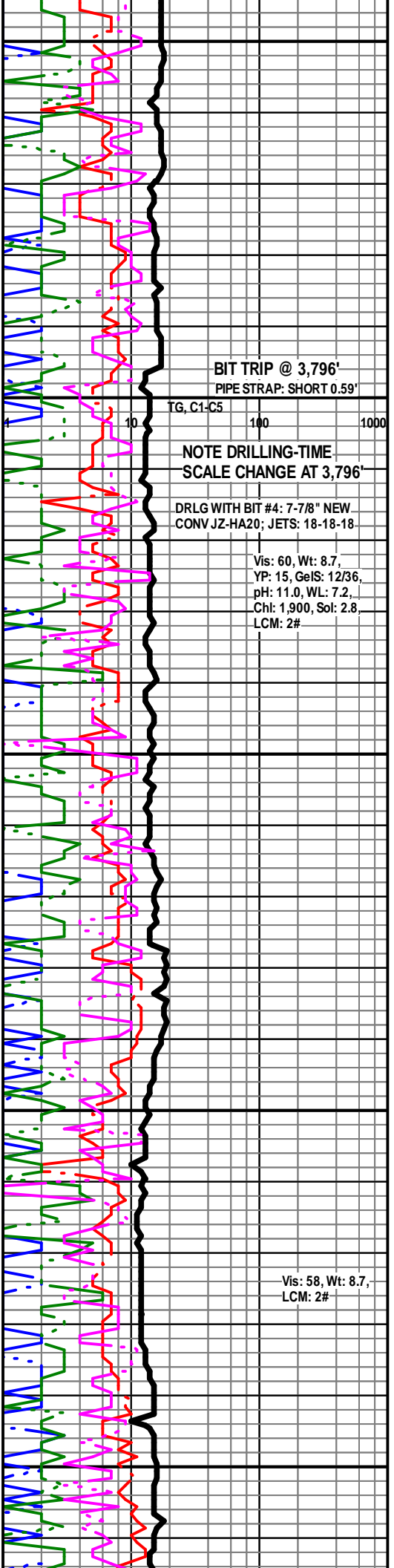
LS - DK GY / BRN / TAN, MOT IN PT, F XLN, PRED AREN + ARGIL, DNS, NS W/ SH - GY

LS - CRM / WHT / TAN, F / SCAT VF XLN, SL OOL ON PT, SCAT P / F PPT + VUG POR, P / F SHOW DEAD OIL, TR ASPH, PSFO + GB, V FT ODOR, SPTY BLK / BRN STN, CHKY IN PT W/ SCAT CHT - WHT / TAN / CRM

LS - TAN / CRM, F XLN, SCAT REXLN CALC, SL FOSS, SCAT OOL, P / SCAT F PPT + VUG POR, TR INTXLN POR, NS W/ SCAT CHT - WHT

LS - ASABOVE, NS W/LS - TAN / GY, VF / CRYPTO XLN, DNS, NS W/ SCAT SH - GY / BLK, CARB IN PT

LS - TAN / CRM, VF / F XLN, SL OOL IN PT, TR P INTXLN + VUG POR, PRED DNS, NS



HEEBNER
3816 (-542)

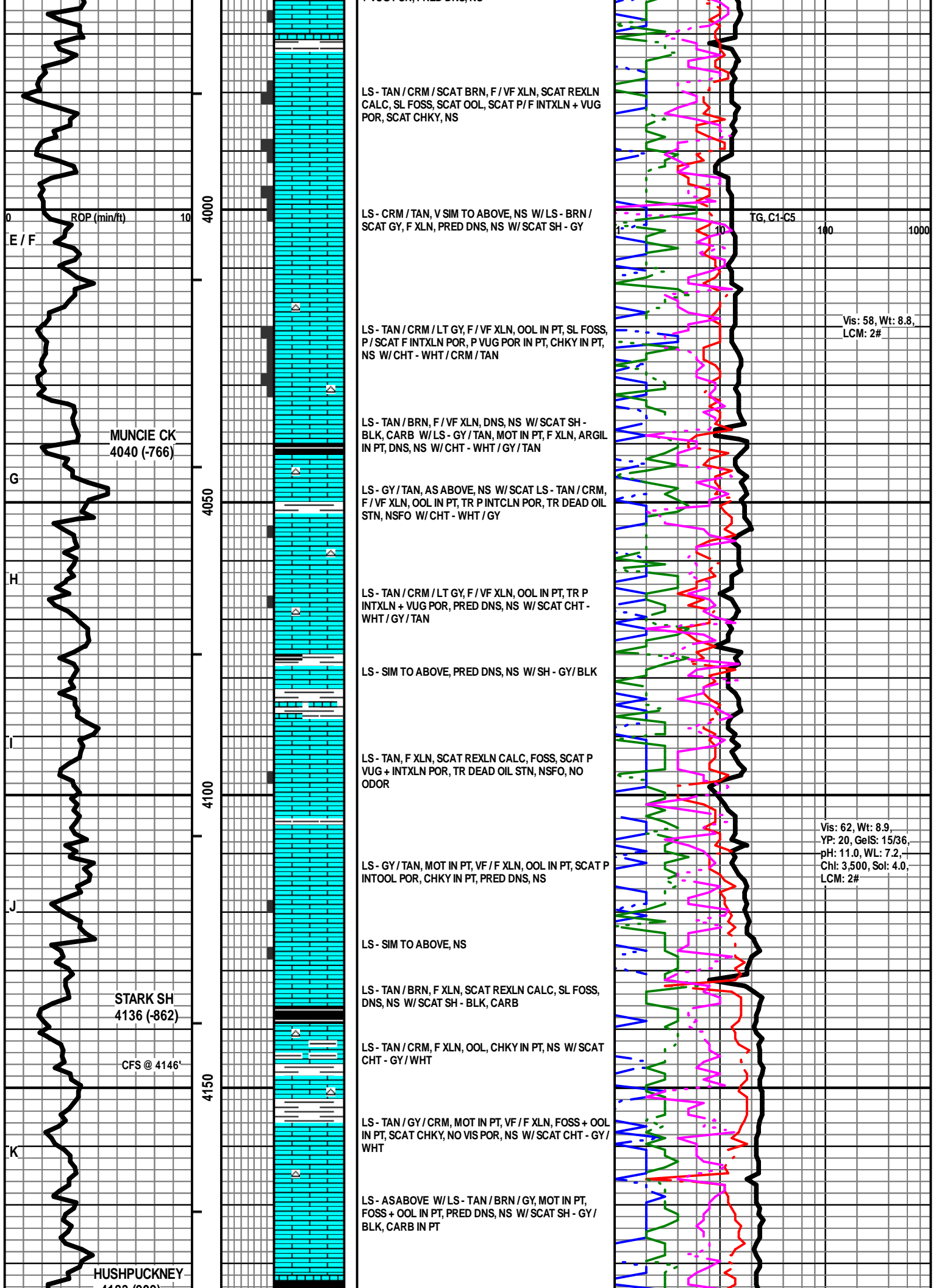
LANSING
3867 (-593)

A

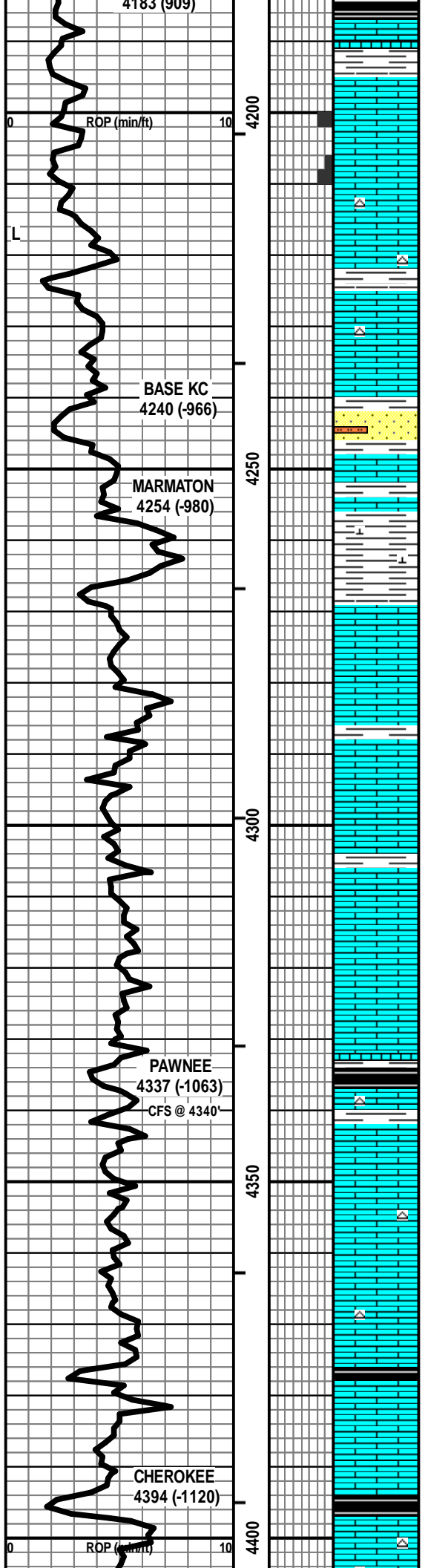
B

C

D



4183 (909)



SH - BLK, CARB W/LS - TAN / CRM / SCAT BRN, F XLN, SCAT REXLN CALC, SL FOSS, SCAT CHKY, NS

LS - TAN / CRM, F XLN, SCAT REXLN CALC, SL FOSS, P / F INTXLN + VUG POR IN PT, SCAT CHKY, NS

LS - TAN / GY / BRN, MOT, F XLN, FOSS IN PT, PRED DNS, NS W/CHT - WHT / GY

LS - TAN / GY, F XLN, SL FOSS, SCAT CHKY, PRED DNS, NS W/SCAT CHT - WHT / GY

MOD AMT SH - GY / GRN, SLTY IN PT W/MOD ABNT SS - GY / CRM, VF GR, SLTY IN PT W/SCAT LS - BRN / TAN, F XLN, SL OOL, DNS, NS W/ABNT LS - V SIM TO ABOVE, NS

MOD ABNT SH - GY / RED / BRN / GRN, CALC IN PT W/ SCAT CHT - GY / TAN / WHT W/ABNT LS + SS CAVINGS

LS - CRM / TAN / GY, VF / F XLN, SL FOSS + OOL, SUBCHKY IN PT, PRED DNS, NS

LS - GY / TAN, VF / F XLN, SCAT REXLN CALC, PRED DNS, NS

LS - MED / DK GY / TAN, VF / F XLN, PRED DNS, NS W/ SCAT SH - GY / BLK

LS - TAN / GY, VF / F XLN, SL FOSS, PRED DNS, NS

LS - TAN / GY, VF / F XLN, OOL IN PT, PRED DNS, NS W/ SCAT SH - GY / BLK

LS - TAN / GY, VF / F XLN, OOL IN PT, PRED DNS, NS

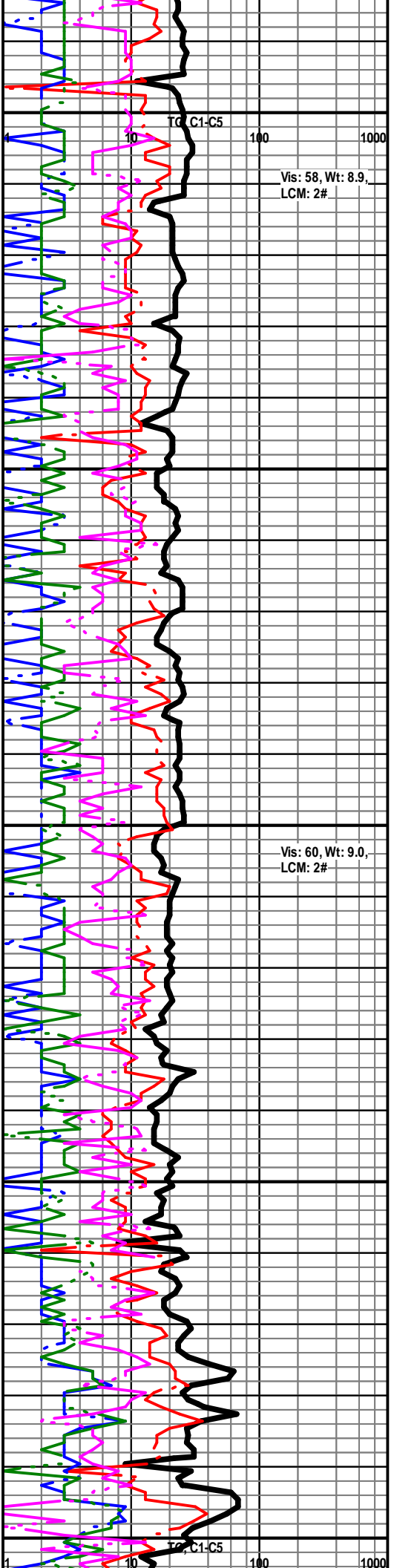
SH - GY / BLK, CARB IN PT W/LS - CRM / TAN / SCAT BRN, VF / F XLN, FOSS IN PT, PRED DNS, NS W/ SCAT CHT - GY / TAN

LS - TAN / GY, SCAT CRM / BRN, MOT IN PT, VF / F XLN, FOSS IN PT, SCAT CHKY, PRED DNS, NS W/ SCAT CHT - GY / TAN / BRN

LS - V SIM TO ABOVE, NS W/SCAT CHT - AS ABOVE

LS - TAN / CRM / BRN, MOT IN PT, F / VF XLN, FOSS + OOL ON PT, PRED DNS, NS

LS - CRM / TAN / SCAT BRN, VF / F XLN, OOL IN PT, SL FOSS CHKY IN PT, PRED DNS, NS W/CHT - GY



FOSS, CHRYNT PT, PRED DNS, NS W/CHT - GY

Vis: 59, Wt: 9.1,
YP: 21, GeIS: 14/36,
pH: 11.0, WL: 8.0,
Chl: 4,000, Sol: 5.3,
LCM: 2#

LS - V SIM TO ABOVE, NS W/LS - GY/BRN, MOT, F
XLN, SL FOSS, PRED DNS, NS W/ SCAT CHT - GY

LS - BRN / TAN / SCAT CRM, MOT IN PT, F / VF XLN,
SCAT OOL + FOSS, CHKY IN PT / DNS, NS W/ SCAT SS -
GY / BRN, VF / F GR, CALC / ARGIL, LS + SH FRAG, NS
W/ SH - GY / BLK

LS - TAN / BRN / CRM / GY, VF / F XLN, SL FOSS,
SUBCHKY IN PT, PRED DNS, NS W/ SCAT CHT - GY W/
SH - SH - GY / BLK, CARB IN PT

LS - ASABOVE W/LS - TAN / CRM / BRN, F XLN, OOL
IN PT, SL FOSS, PRED DNS, NS W/ SH - GY / BLK

LS - CRM / TAN / SCAT BRN, F / VF XLN, OOL IN PT,
SCAT FOSS, TR P INTXLN POR, PRED DNS, TR DEAD
OIL STN, NSFO, NO ODOR W/CHT - TAN / GY

LS - CRM / TAN / BRN, F / VF XLN, OOL IN PT, SCAT
FOSS, TR P INTXLN POR, PRED DNS, SCAT DEAD OIL
STN, NSFO, NO ODOR W/CHT - TAN / GY

LS - TAN / CRM / BRN, VF / F XLN, SCAT OOL, PRED
DNS, NS W/CHT - GY / TAN, OOL W/ ABNT SH - GY /
SCAT BLK / SCAT GRN

LS - TAN / CRM / GY, MOT IN PT, VF / F XLN, SCAT FOSS
+ OOL, PRED DNS, NS W/ ABNT RED BEDS & CAVINGS

LS - TAN / CRM, VF / F XLN, SCAT FOSS + OOL, PRED
DNS, NO VIS POR, NS W/ ABNT RED BEDS & CAVINGS

LS - TAN / CRM / BRN, VF / F XLN, SCAT FOSS + OOL,
PRED DNS, NS W/ SCAT / MOD CAVINGS, QUALITY IS
MUCH IMPROVED

SH - GY / SCAT BLK, CARB IN PT W/ SCAT SS - LT GY /
TAN, VF / MED / C GR, F / P SRD, MOD / V CALC, SOME
LS FRAG, P POR, NS

SS - LT GY, VF / F GR, MOD / W SRD, SA / SR, SL / MOD
CALC CEM, SCAT GLAUC, P / F POR, FRI IN PT, NS W/
SCAT COAL W/ SCAT SH - GY / BLK

SS - LT GY, VF / F GR, MOD / W SRD, SA / SR, SL / MOD
CALC CEM, SCAT GLAUC, P / G INTGR POR, FRI IN PT,
NS W/ SH - GY

COAL W/SS - ASABOVE W/ SH - GY

Vis: 58, Wt: 9.1,
LCM: 2#

VIS DECREASED TO 52;
ABNT CAVINGS & RED
BEDS IN SAMPLES;
BEGIN ADDING PREMIXAT
4,554'

FINISH ADDING PREMIXAT
4,572'; SAMPLE QUAL
STILL POOR; CTCH 30" AT
4,575' TO IMPROVE SAMPLE
QUALITY

Vis: 60, Wt: 9.0,
LCM: 2#

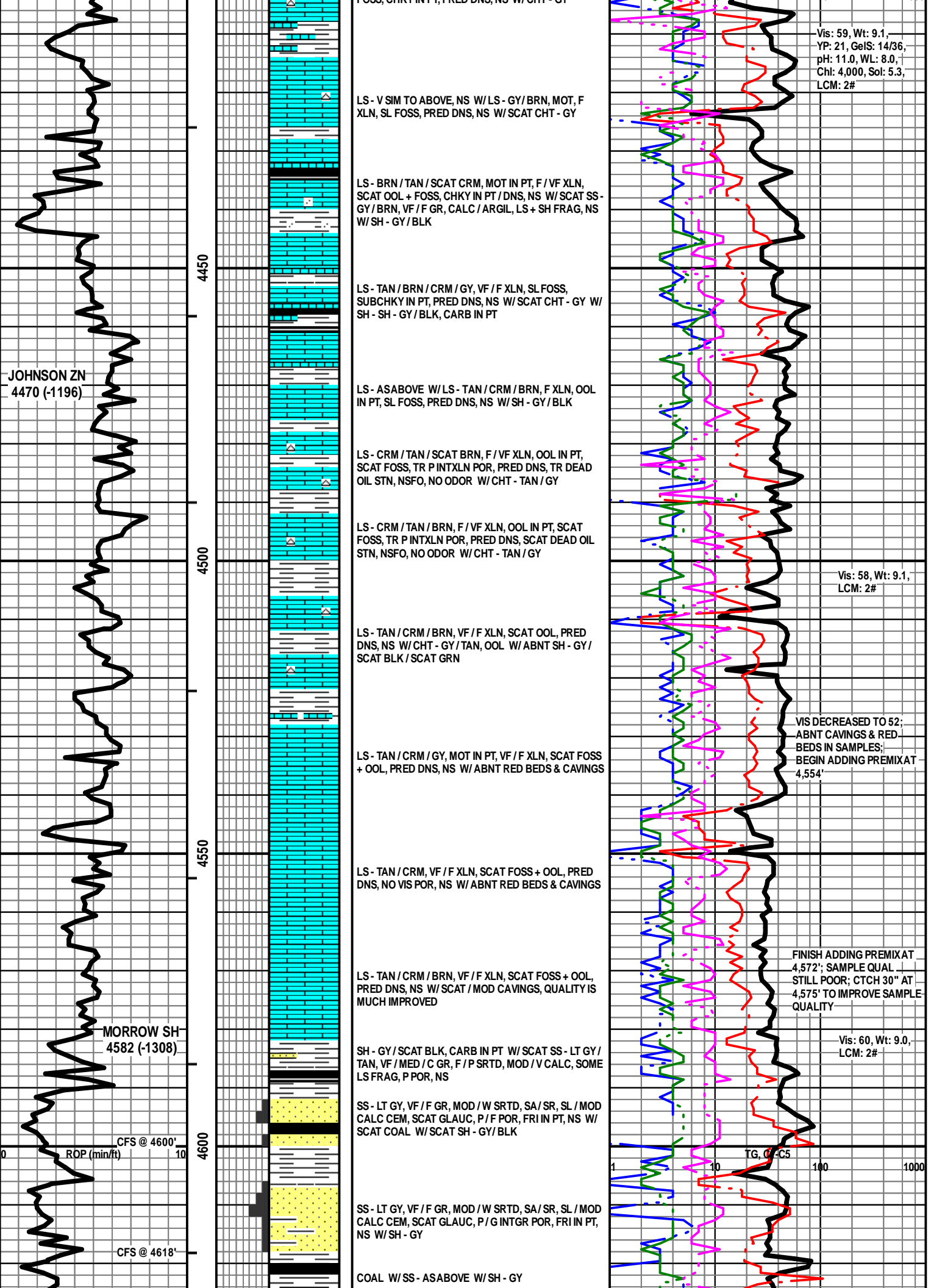
JOHNSON ZN
4470 (-1196)

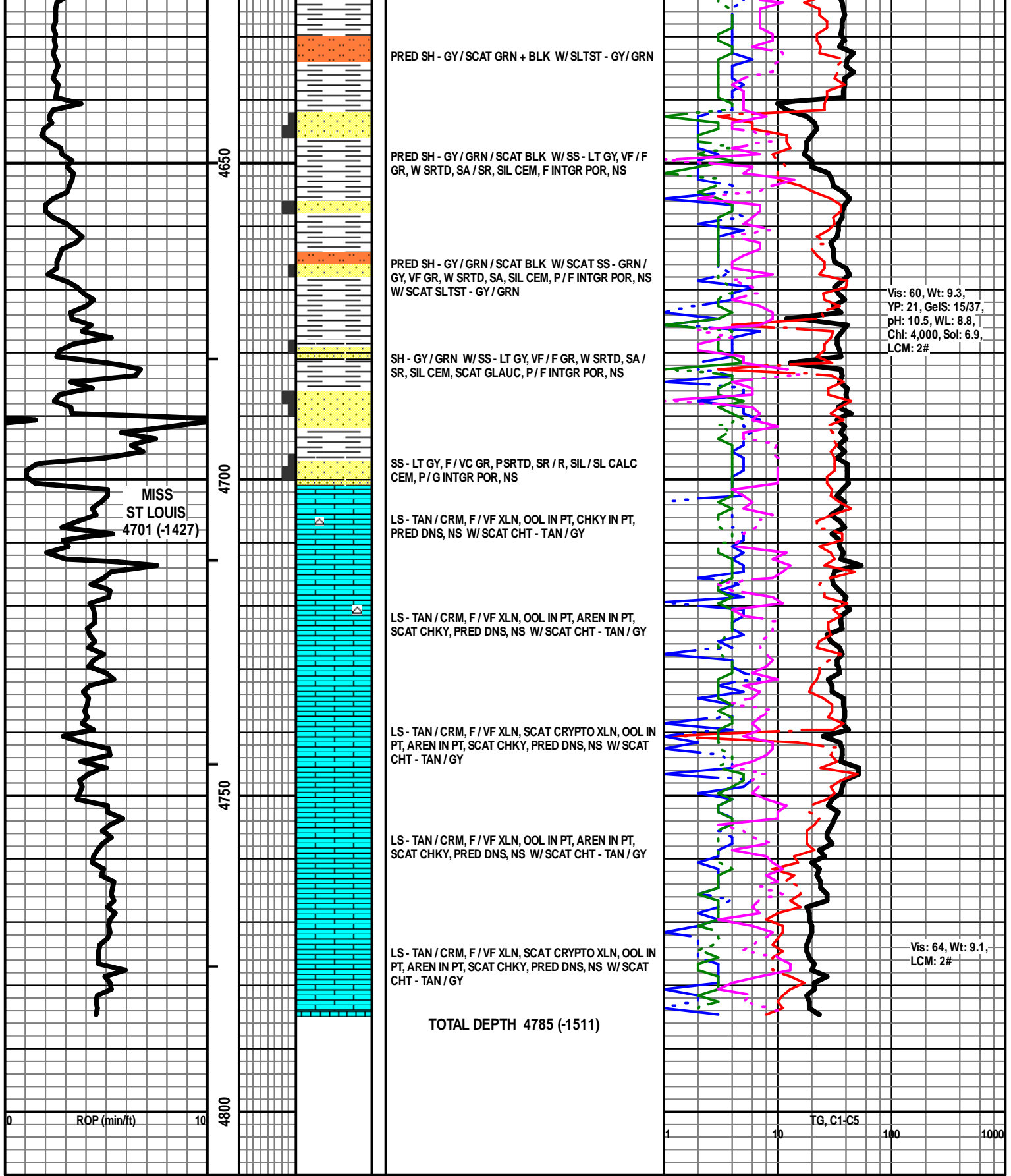
MORROW SH
4582 (-1308)

CFS @ 4600'
ROP (min/ft)

CFS @ 4618'

TG, C-5





MISS
ST LOUIS
4701 (-1427)

PRED SH - GY / SCAT GRN + BLK W/SLTST - GY/GRN

PRED SH - GY / GRN / SCAT BLK W/SS - LT GY, VF / F GR, W SRTD, SA / SR, SIL CEM, F INTGR POR, NS

PRED SH - GY / GRN / SCAT BLK W/SCAT SS - GRN / GY, VF GR, W SRTD, SA, SIL CEM, P / F INTGR POR, NS W/SCAT SLTST - GY / GRN

SH - GY / GRN W/SS - LT GY, VF / F GR, W SRTD, SA / SR, SIL CEM, SCAT GLAUC, P / F INTGR POR, NS

SS - LT GY, F / VC GR, PSRTD, SR / R, SIL / SL CALC CEM, P / G INTGR POR, NS

LS - TAN / CRM, F / VF XLN, OOL IN PT, CHKY IN PT, PRED DNS, NS W/SCAT CHT - TAN / GY

LS - TAN / CRM, F / VF XLN, OOL IN PT, AREN IN PT, SCAT CHKY, PRED DNS, NS W/SCAT CHT - TAN / GY

LS - TAN / CRM, F / VF XLN, SCAT CRYPTO XLN, OOL IN PT, AREN IN PT, SCAT CHKY, PRED DNS, NS W/SCAT CHT - TAN / GY

LS - TAN / CRM, F / VF XLN, OOL IN PT, AREN IN PT, SCAT CHKY, PRED DNS, NS W/SCAT CHT - TAN / GY

LS - TAN / CRM, F / VF XLN, SCAT CRYPTO XLN, OOL IN PT, AREN IN PT, SCAT CHKY, PRED DNS, NS W/SCAT CHT - TAN / GY

TOTAL DEPTH 4785 (-1511)

Vis: 60, Wt: 9.3,
YP: 21, GeIS: 15/37,
pH: 10.5, WL: 8.8,
Chl: 4,000, Sol: 6.9,
LCM: 2#

Vis: 64, Wt: 9.1,
LCM: 2#

ROP (min/ft)

TG, C1-C5