

# GEOLOGIC REPORT

## DAVID J. GOLDAK

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

Well Name: Homestead #1-3  
Location: Section 3 - T14S - R38W  
License Number: API: 15-199-20442  
Spud Date: 07 / 10 / 2017  
Surface Coordinates: 1380' FNL and 2028' FWL  
Approx. C - E/2 - NW  
Region: Wallace Co., KS  
Drilling Completed: 07 / 16 / 2017  
Bottom Hole Coordinates:  
Ground Elevation (ft): 3322' K.B. Elevation (ft): 3335'  
Logged Interval (ft): 3400' To: 4820' Total Depth (ft): 4820'  
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	315	315	4.00
2	7-7/8	JZ-HAIPG	3-15s	458'	143'	1.75
3	7-7/8	JZ-PLT516	5-15s	4820'	4362'	64.50

SURVEYS: 315'-0.50; 4820'-1.25

#### 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 100-110 RPM.  
Pumping w/ PDC: 70 S/M; 10.8 B/M; 900-1000 psi at standpipe.

### Daily Status

07/10/17 - Spud at 8:45 PM; Set 8-5/8" csg @ 309'  
 07/11/17 - 315' Cementing surface csg; Bit trip @  
 07/12/17 - 1,150' Drilling  
 07/13/17 - 3,050' Drilling; Displace mud @ 3,509'  
 07/14/17 - 3,966' CFS  
 07/15/17 - 4,580' Drilling; Log well late PM  
 07/16/17 - 4,820' Preparing to plug





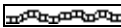



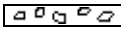
















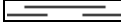
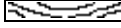

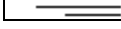

	Log Tops	Sample Tops
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Wabaunsee	3457 (-122)	3460 (-125)
Stotler	3506 (-171)	3511 (-176)
Topeka	3623 (-288)	3626 (-291)
Lecompton	3769 (-434)	3772 (-437)
Heebner	3854 (-519)	3857 (-522)
Lansing	3903 (-568)	3904 (-569)
Muncie Creek	4077 (-742)	4080 (-745)
Stark Sh	4163 (-828)	4166 (-831)
Hushpuckney Sh	4206 (-871)	4210 (-875)
Base of KC	4267 (-932)	4270 (-935)
Marmaton	4280 (-945)	4286 (-951)
Pawnee	4375 (-1040)	4378 (-1043)
Cherokee Sh	4429 (-1094)	4430 (-1095)
Lower Cher Sh	4466 (-1131)	4469 (-1134)
Johnson Zone	4508 (-1173)	4511 (-1176)
Morrow Sh	4612 (-1277)	4615 (-1280)
Mississippian	4732 (-1397)	4734 (-1399)
Total Depth	4817 (-1482)	4820 (-1485)

### DSTs

None

### ROCK TYPES

 Anhy	 Gyp	 Shgy	 Sandylms
 Bent	 Igne	 Sltst	 Shale
 Brec	 Lmst	 Ss	 Sltstn
 Cht	 Meta	 Till	 Shlyslts
 Clyst	 Mrlst	 Carb sh	 Sltyslts
 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
- Silty

#### 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
- Sltstrg
- Ssstrg
- Carbsh



- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

#### TEXTURE

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

### OTHER SYMBOLS

#### POROSITY TYPE

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

#### SORTING

- Well
- Moderate
- Poor

#### ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

#### OIL SHOWS

- Even
- Spotted
- Ques
- Dead
- Gas show

#### INTERVALS

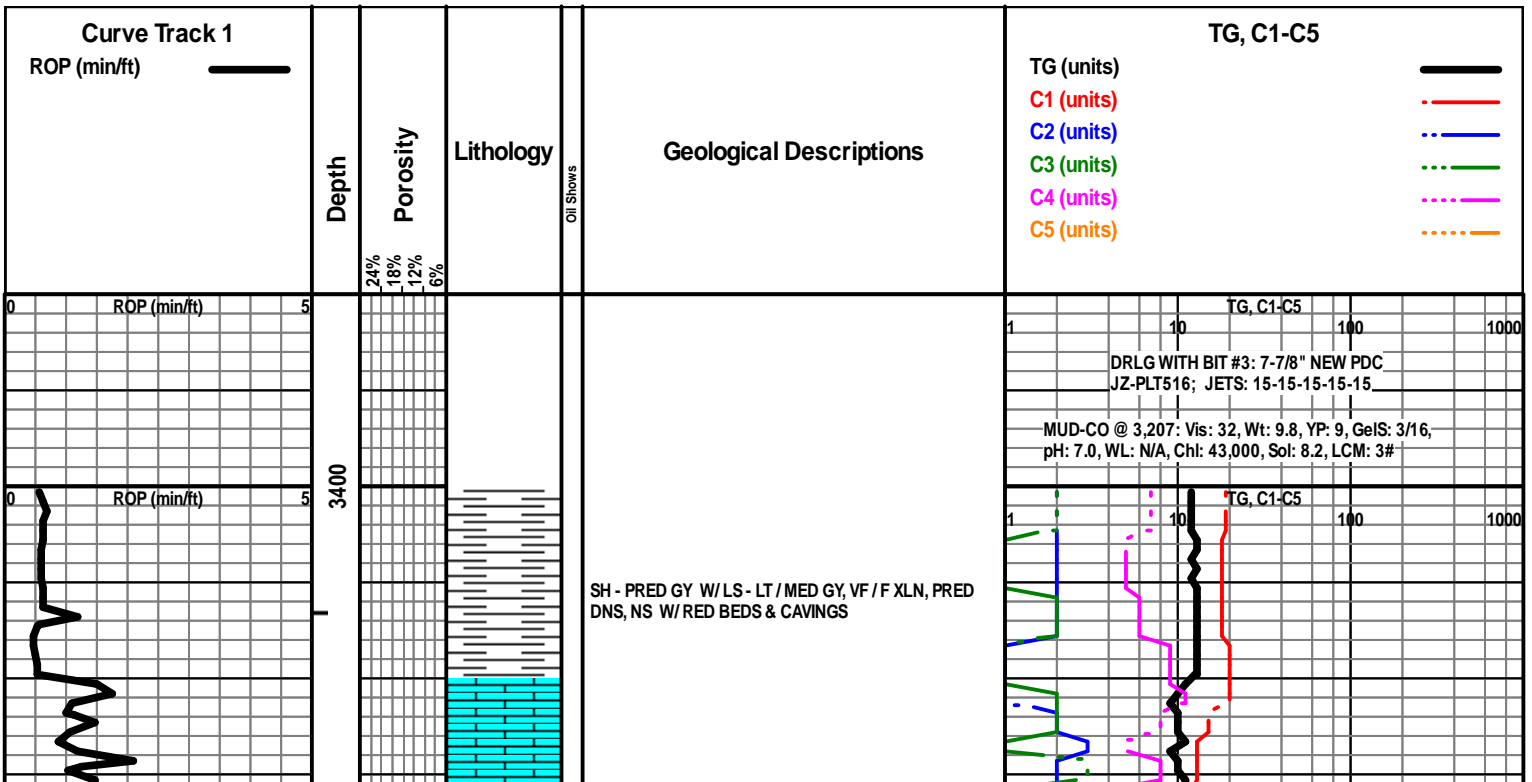
- Core
- Dst

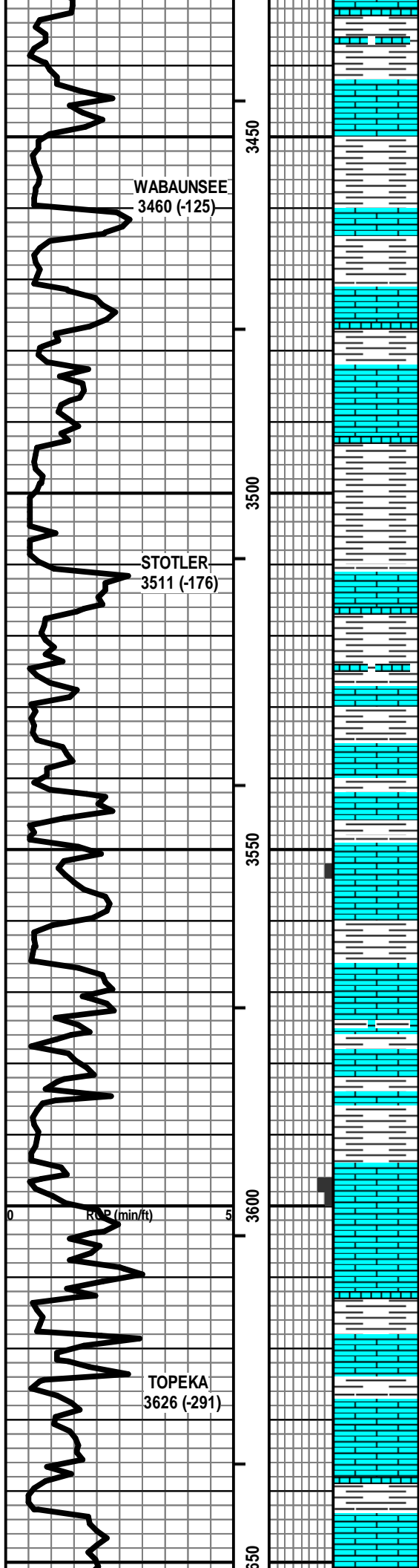


- Dst\_1\_t
- Dst\_1\_b
- Dst

#### EVENTS

- Rft
- Sidewall
- Conn





LS - LT GY / WHT, VF XLN, TR FOSS, PRED DNS, NS W/  
SH - GY

SH - GY / GRN W/LS - CRM / WHT / GY, VF / F XLN,  
PRED DNS, NS W/ RED BEDS & CAVINGS

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

SH - PRED GY, SLTY IN PT W/LS - TAN / BRN, VF / F  
XLN, PRED DNS, NS W/ RED BEDS & CAVINGS

LS - TAN / GY, MOT IN PT, F / VF XLN, SL FOSS, PRED  
DNS, NS W/SH - PRED GY W/ RED BEDS & CAVINGS

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

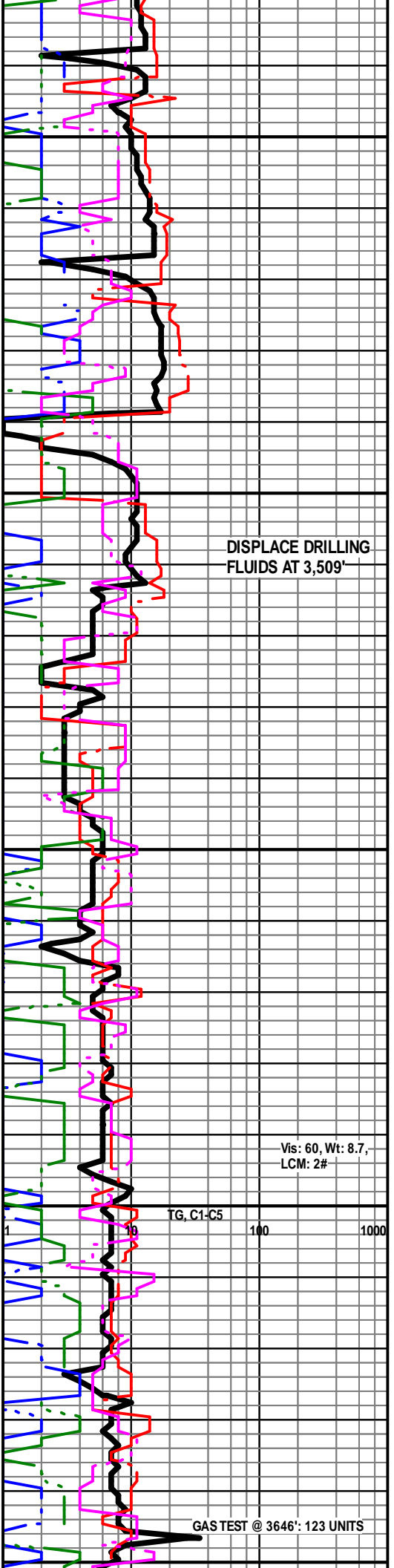
LS - CRM / TAN / SCAT BRN, F / VF XLN, SL OOL, SCAT  
PINTXLN POR, PRED DNS, NS W/SH - PRED GY

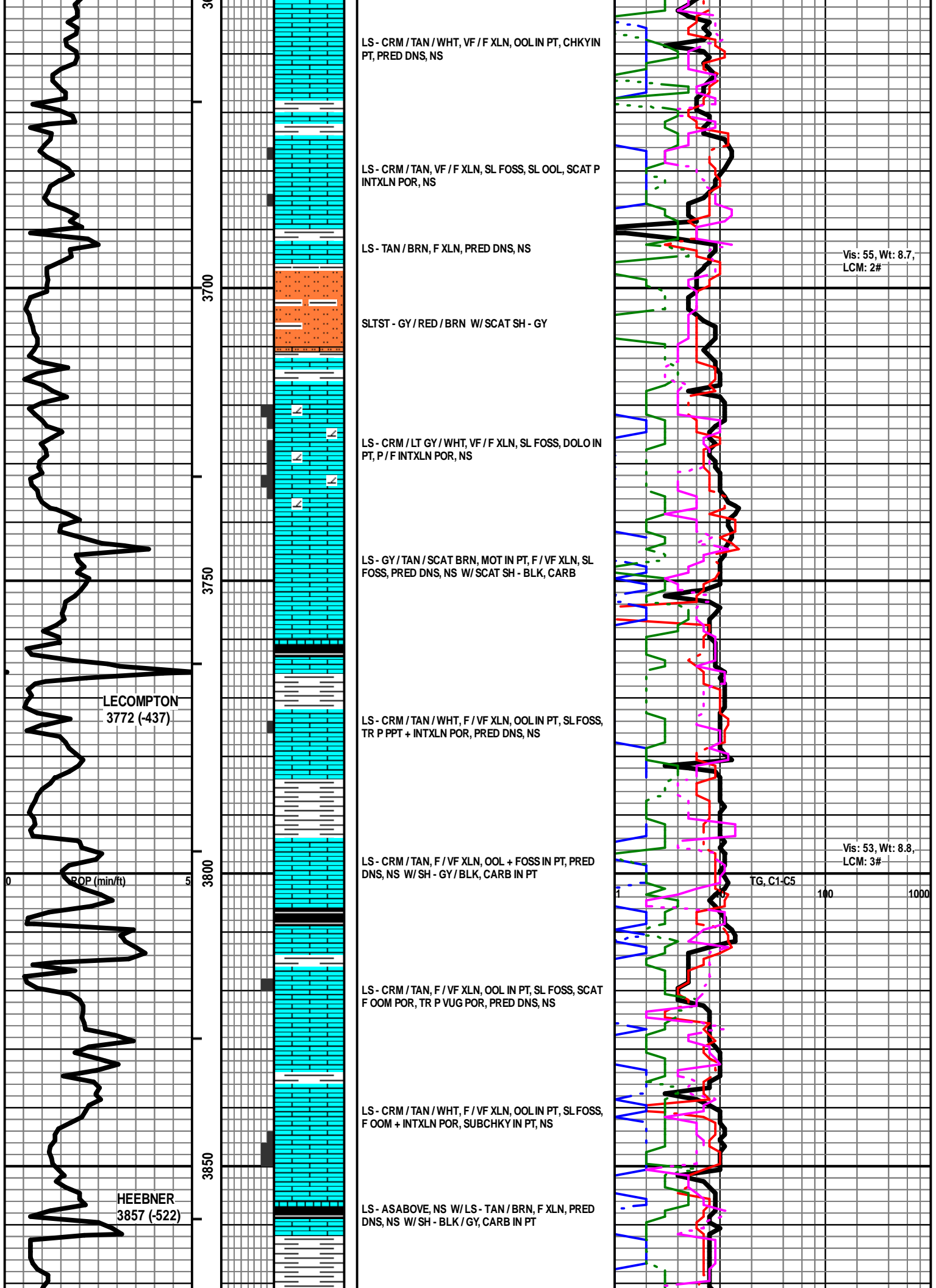
LS - TAN / SCAT CRM, VF XLN, SL OOL, PRED DNS, NS  
W/ SCAT SH - PRED GY

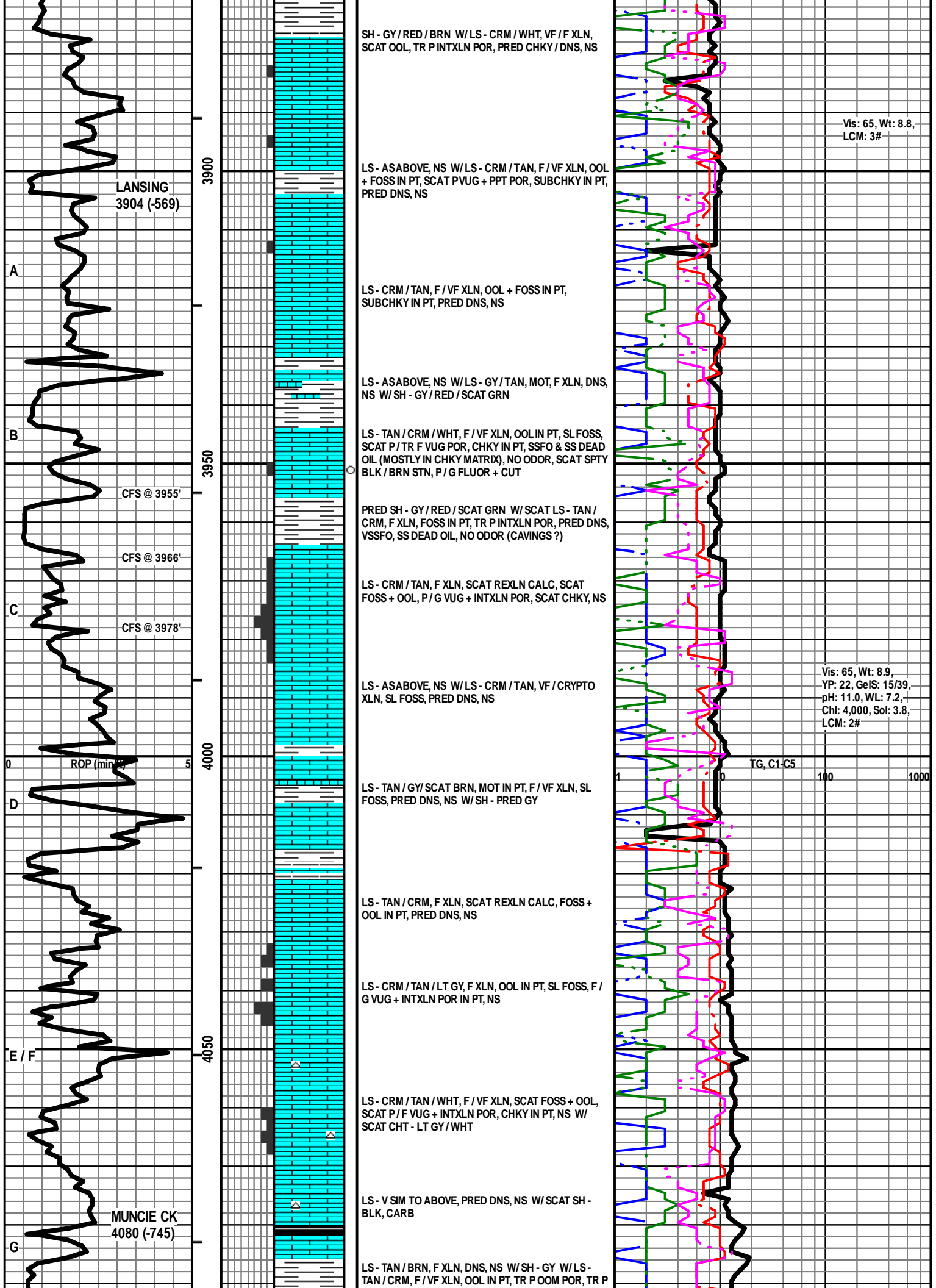
LS - CRM / TAN / SCAT GY, MOT IN PT, F XLN, SL FOSS,  
SCAT P / TR F VUG + INTXLN POR, PRED DNS, NS W/  
SH - GY / RED / BRN

LS - AS ABOVE, PRED DNS, NS W/SH - PRED GY W/LS  
- TAN / BRN, VF / F XLN, PRED DNS, NS

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







SH - GY / RED / BRN W/LS - CRM / WHT, VF / F XLN, SCAT OOL, TR P INTXLN POR, PRED CHKY / DNS, NS

Vis: 65, Wt: 8.8, LCM: 3#

LANSING 3904 (-569)

LS - ASABOVE, NS W/LS - CRM / TAN, F / VF XLN, OOL + FOSS IN PT, SCAT PVUG + PPT POR, SUBCHKY IN PT, PRED DNS, NS

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

LS - ASABOVE, NS W/LS - GY / TAN, MOT, F XLN, DNS, NS W/SH - GY / RED / SCAT GRN

LS - TAN / CRM / WHT, F / VF XLN, OOL IN PT, SL FOSS, SCAT P / TR F VUG POR, CHKY IN PT, SSFO & SS DEAD OIL (MOSTLY IN CHKY MATRIX), NO ODOR, SCAT SPTY BLK / BRN STN, P / G FLUOR + CUT

PRED SH - GY / RED / SCAT GRN W/SCAT LS - TAN / CRM, F XLN, FOSS IN PT, TR P INTXLN POR, PRED DNS, VSSFO, SS DEAD OIL, NO ODOR (CAVINGS ?)

LS - CRM / TAN, F XLN, SCAT REXLN CALC, SCAT FOSS + OOL, P / G VUG + INTXLN POR, SCAT CHKY, NS

LS - ASABOVE, NS W/LS - CRM / TAN, VF / CRYPTO XLN, SL FOSS, PRED DNS, NS

Vis: 65, Wt: 8.9, YP: 22, GeIS: 15/39, pH: 11.0, WL: 7.2, ChI: 4,000, Sol: 3.8, LCM: 2#

LS - TAN / GY / SCAT BRN, MOT IN PT, F / VF XLN, SL FOSS, PRED DNS, NS W/SH - PRED GY

LS - TAN / CRM, F XLN, SCAT REXLN CALC, FOSS + OOL IN PT, PRED DNS, NS

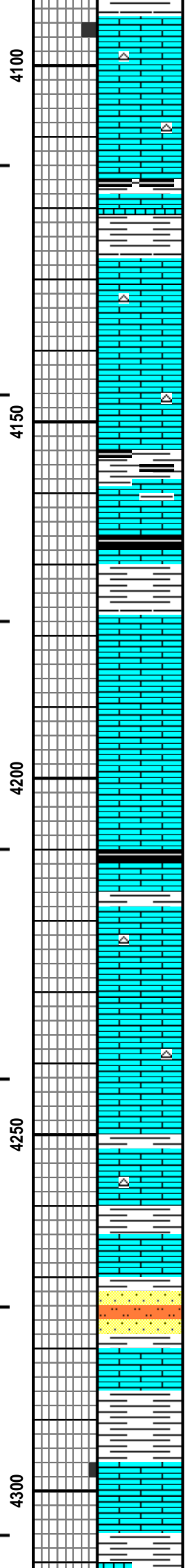
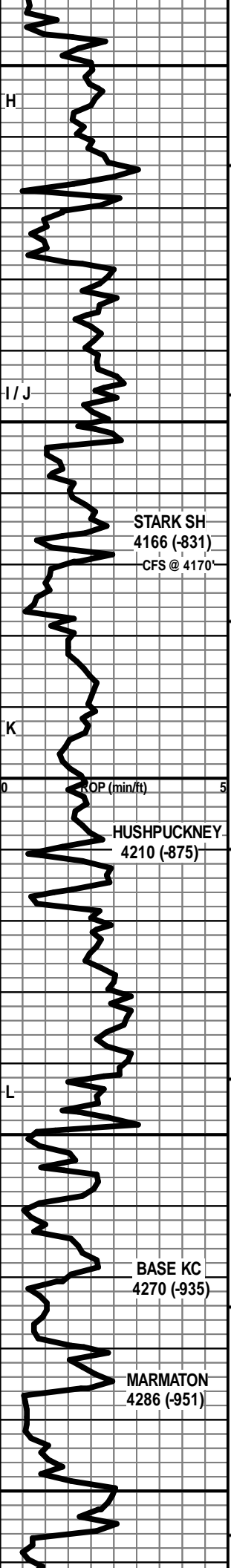
LS - CRM / TAN / LT GY, F XLN, OOL IN PT, SL FOSS, F / G VUG + INTXLN POR IN PT, NS

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

LS - V SIM TO ABOVE, PRED DNS, NS W/SCAT SH - BLK, CARB

LS - TAN / BRN, F XLN, DNS, NS W/SH - GY W/LS - TAN / CRM, F / VF XLN, OOL IN PT, TR P OOM POR, TR P

TG, C1-C5 1 10 100 1000



/ F VUG POR, NS W/ SCAT CHT - WHT

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

LS - V SIM TO ABOVE, NS W/ SH - BLK CARB / GY / SCAT GRN

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

SH - PRED GY / SCAT BLK CARB W/ LS - GY / BRN / TAN, MOT IN PT, F XLN, ARGIL IN PT, NS

LS - TAN / GY / BRN, MOT IN PT, F / VF XLN, SL FOSS, DNS, NS W/ SH - BLK, CARB

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

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

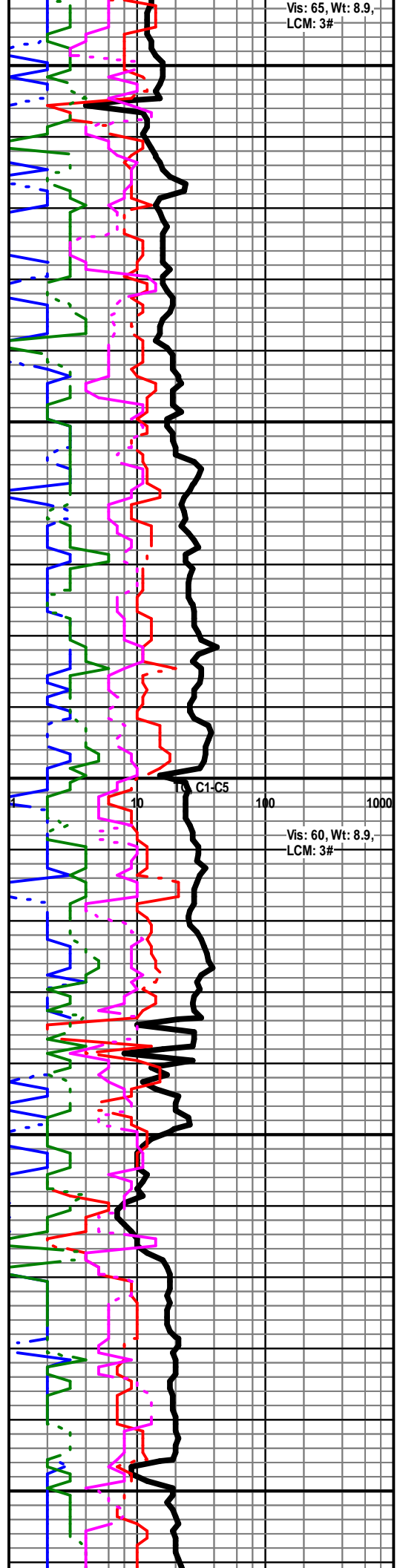
LS - TAN / GY / SCAT BRN, MOT IN PT, VF / F XLN, FOSS IN PT, PRED DNS, NS W/ SCAT CHT - LT GY / WHT W/ SH - BLK CARB / GY

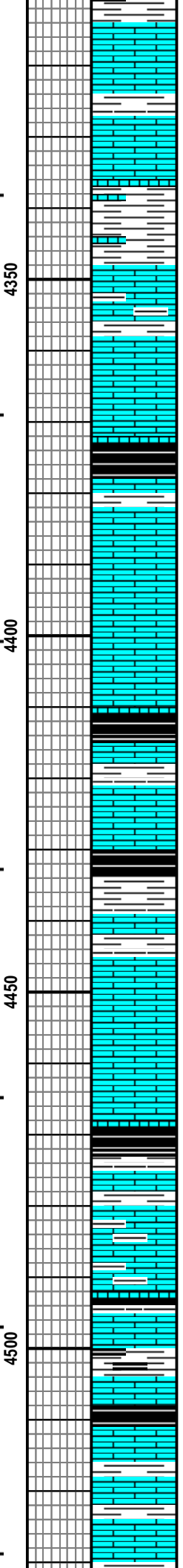
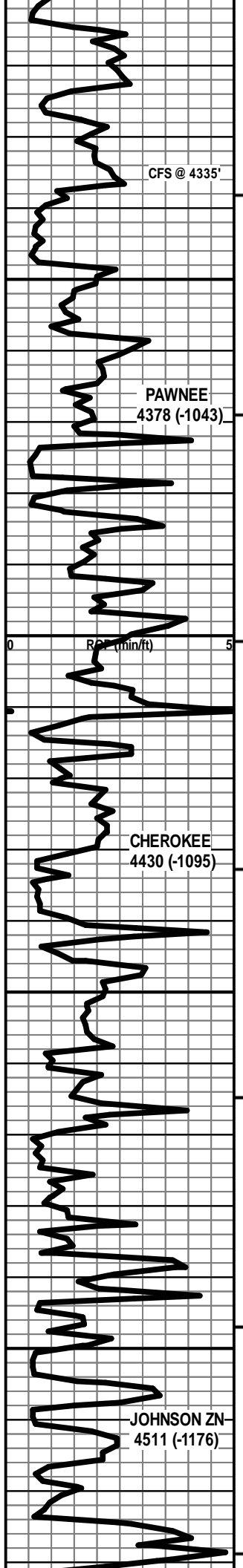
LS - TAN / GY / SCAT BRN, MOT IN PT, VF / F XLN, FOSS IN PT, PRED DNS, NS W/ SCAT CHT - LT GY / WHT

LS - TAN / GY / SCAT BRN, MOT IN PT, VF / F XLN, SL FOSS, PRED DNS, NS W/ SCAT CHT - LT GY / WHT W/ ABNT SH - MED / DK GY

LS - AS ABOVE, NS W/ SS & SLTST - GY / GRN / CRM W/ SCAT LS - TAN / BRN, F XLN, DNS, NS

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





LS - TAN / GY / SCAT CRM, MOT IN PT, F / VF XLN, SCAT  
REXLN CALC, OOL IN PT, SL FOSS, PRED DNS, NS W/  
ABNT SH - GY

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

PRED SH - GY / RED / SCAT GRN W/ SCAT LS - V SIM  
TO ABOVE, NS

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

SH - BLK CARB / GY W/ LS - GY / BRN / TAN, VF / F  
XLN, SCAT REXLN CALC, SL FOSS, PRED DNS, NS

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

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

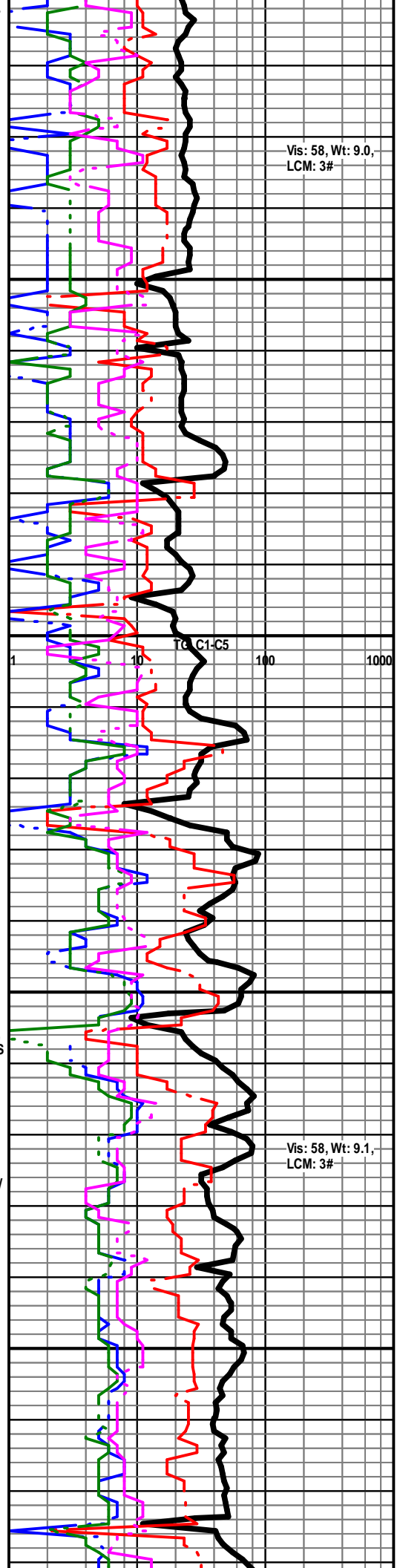
LS - V SIM TO ABOVE, NS W/ SH - GY / BLK

LS - CRM / TAN / BRN / SCAT GY, MOT IN PT, VF / F XLN,  
FOSS IN PT, SCAT OOL, SUBCHKY IN PT, PRED DNS, NS

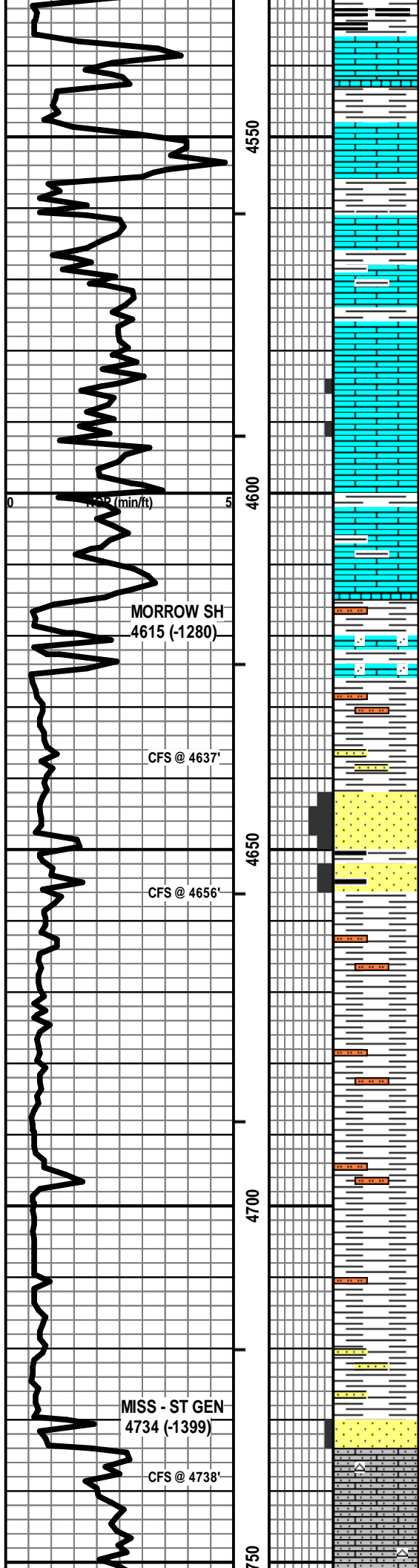
LS - TAN / BRN, VF / F XLN, SL FOSS, PRED DNS, NS W/  
ABNT SH - BLK CARB / GY

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

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







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

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

LS - TAN / BRN / GY, MOT IN PT, F / VF XLN, FOSS IN PT, SCAT OOL, SCAT P INTXLN / INTPART POR, PRED DNS, NS W/ SCAT SH - GY / BLK

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

LS - ASABOVE, NS W/ SH - GY W/ SLTST - GRN / SCAT GY

SH - GY / SCAT GRN + YEL W/ SLTST - GY / GRN W/ SCAT SS - LT GY, VF / SCAT F GR, W / FW SRTD, SA / SR, SIL CEM, SLTY IN PT, P / F INTGR POR IN PT, NS W/ TR AREN LS / MUDSTONE - GY / TAN, VF XLN, DNS, NS

SS - LT GY, VF / F GR, MOD W SRTD, SA / SR, SIL CEM, G INTGR POR, FRI, NS W/ SS - LT GY, F / C GR, PSRTD, SA / R, PRED SIL CEM, CALC IN PT, SCAT COAL FRAG, F / G INTGR POR, FRI IN PT, NS W/ SCAT UNCONS QTZ, M / VC GR, SR W/ SH - GY / SCAT BLK

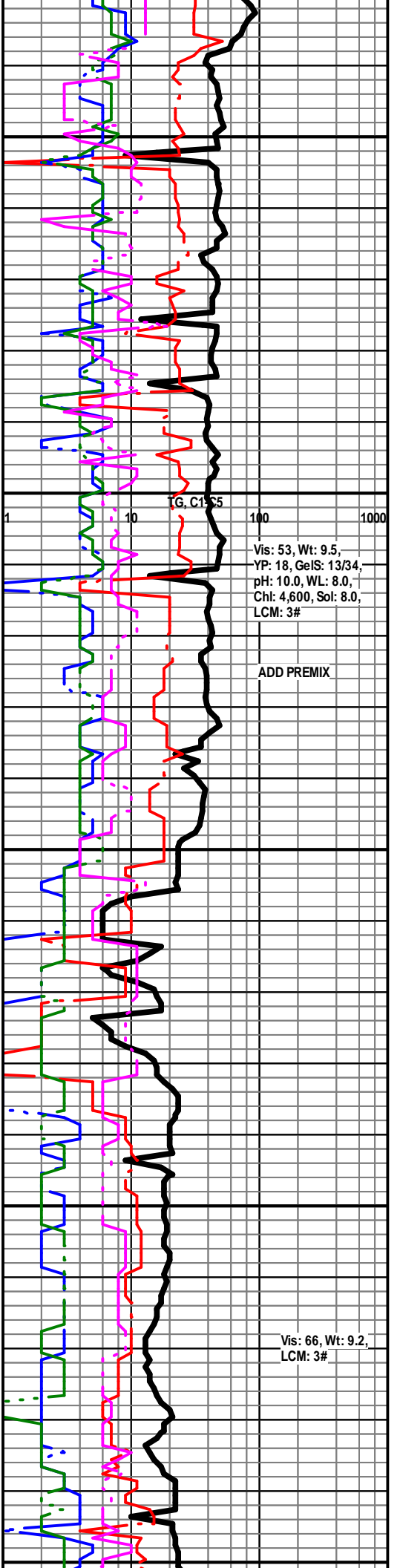
SH - LT / MED GY W/ MOD AMT SLTST - GY

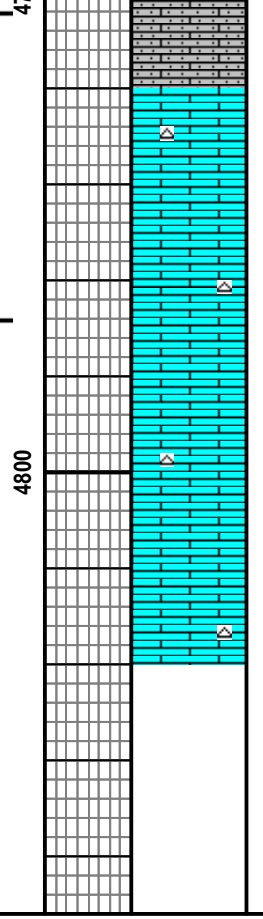
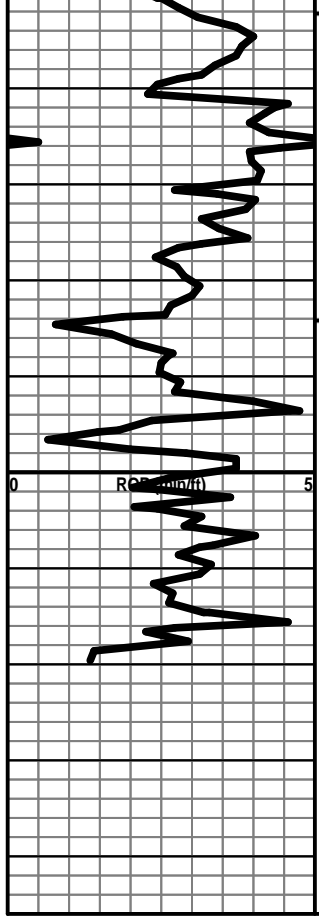
SH - LT / MED GY W/ MOD AMT SLTST - GY

PRED SH - MED / DK GY W/ SCAT SLTST - GY W/ SCAT UNCONS QTZ, VC GR

SS - LT / MED GY, VF / F GR, W SRTD, SA / SR, SIL CEM, SLTY IN PT, ARGIL IN PT, NS W/ SCAT SS - LT GY, F / VC, P SRTD, SR / R, PRED SIL CEM, F / G INTGR POR, NS W/ SH - MED / DK GY W/ LS - WHT / CRM, VF XLN, AREN, SL OOL, SUBCHKY / DNS, NS W/ TR CHT - ORG

LS - WHT / CRM, VF XLN, AREN, VF QTZ GR, FNLY OOL, SUBCHKY / DNS, NS W/ SCAT CHT - ORG





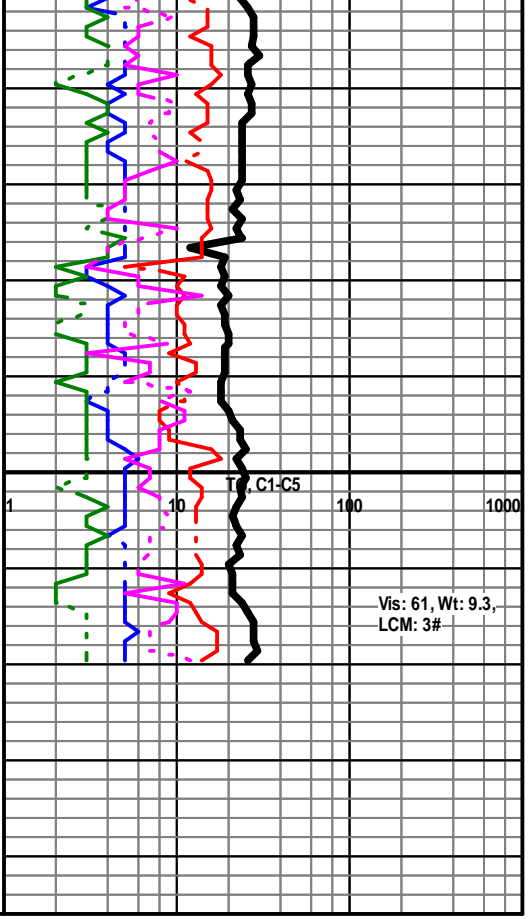
LS - ASABOVE, NS W/LS - TAN / CRM, F / VF XLN, OOL IN PT, SCAT OOL, SCAT AREN, PRED DNS, NS W/ SCAT CHT - ORG

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

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

LS - TAN / CRM, MOT IN PT, VF / CRYPTO XLN, SCAT F XLN, OOL IN PT, CHKY IN PT, PRED DNS, NS

TOTAL DEPTH 4820 (-1485)



Vis: 61, Wt: 9.3, LCM: 3#