

GEOLOGIC REPORT

DAVID J. GOLDAK

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

Well Name: Ralph #1
Location: Section 6 - T31S - R11W
License Number: API: 15-007-23993
Spud Date: 03 / 06 / 2013
Surface Coordinates: 1853' FNL and 337' FWL
Approx. W/2 - SW - NW
Region: Barber Co., KS
Drilling Completed:
Bottom Hole Coordinates:
Ground Elevation (ft): 1669' K.B. Elevation (ft): 1679'
Logged Interval (ft): 3500' To: 4778' Total Depth (ft): 4778'
Formation: Simpson
Type of Drilling Fluid: Chemical - Mud-Co

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

OPERATOR

Company: WHITE EXPLORATION, INC.
Address: 1635 N. Waterfront Pkwy, Suite 100
Wichita, Kansas 67206

GEOLOGIST

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

General Info

CONTRACTOR: Pickrell Drilling, Rig #1

BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	12-1/4	JZ-?-RR	4-14s	314	314	3.75
2	7-7/8	JZ-ENP0123	3-14s	4644	4330	108.50
3	7-7/8	JZ-QX28	3-14s	4778	134	9.50

SURVEYS: 314'-0.50, 1243'-0.25, 1748'-1.25, 2222'-0.50,
2728'-1.00, 3264'-1.25, 4644'-1.00, 4778'-1.50

GENERAL DRILLING AND PUMP INFORMATION:

Drilling with 36,000-38,000 lbs. on bit and 75-80 RPM.
Pumping 58 S/M, 7.5 B/M, and 1000 psi at standpipe.


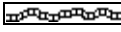
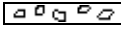

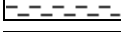







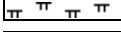

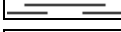
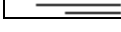
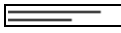





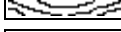







Daily Status

03/06/13 - Spud @ 5:00 PM; Set 8-5/8" Csg at 310'
 03/07/13 - 314' WOC; Drill plug @ 9:30 AM
 03/08/13 - 1,700' Drilling
 03/09/13 - 2,223' Down for repairs
 03/10/13 - 2,860' Drilling; Displace mud @ 3,400'
 03/11/13 - 3,455' Drilling
 03/12/13 - 4,120' Drilling
 03/13/13 - 4,540' Drilling; Bit trip @ 4,644'
 03/14/13 - 4,735' Drilling; RTD @ 4,778'

DSTs














None

ROCK TYPES

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

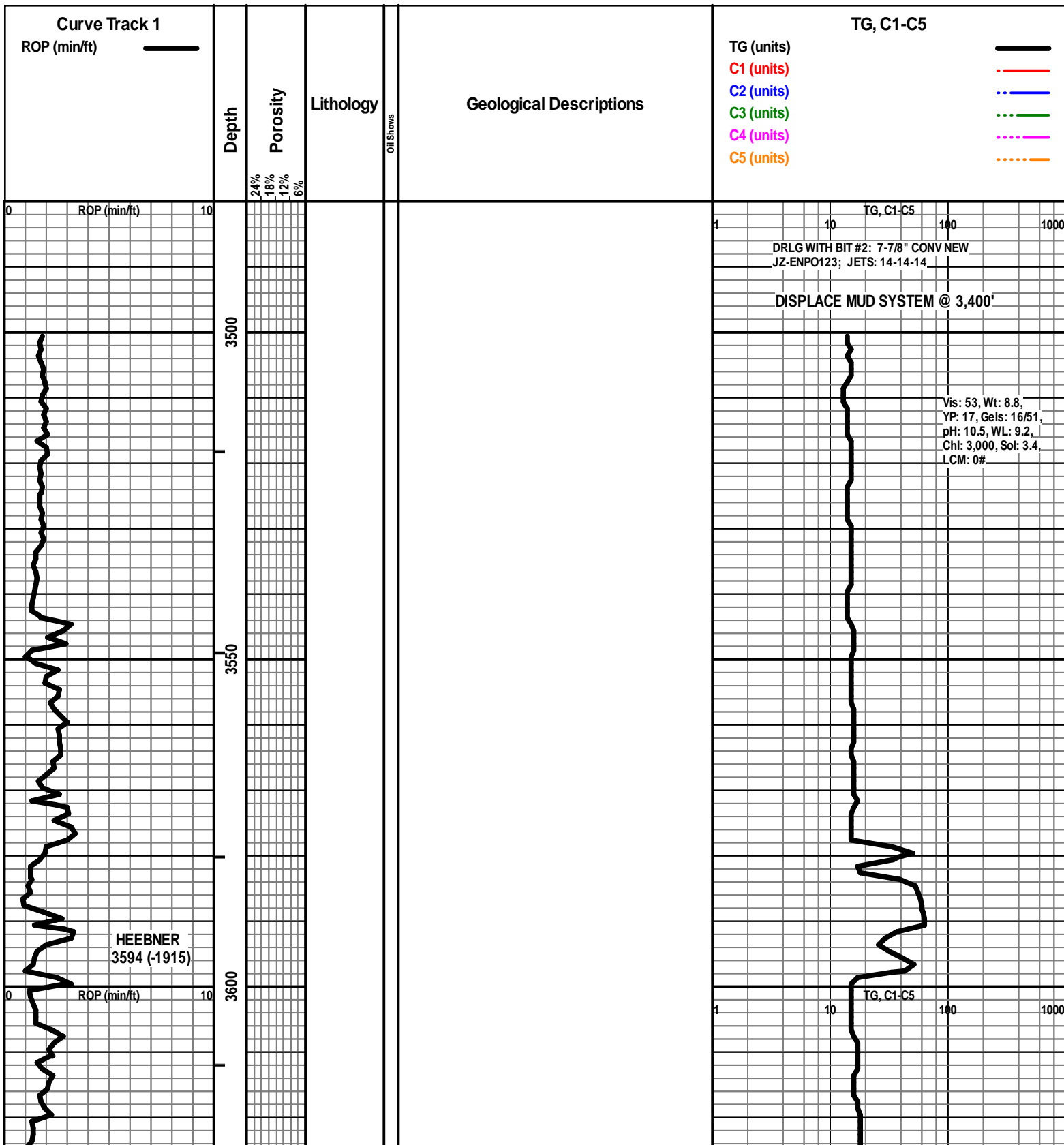
INTERVALS

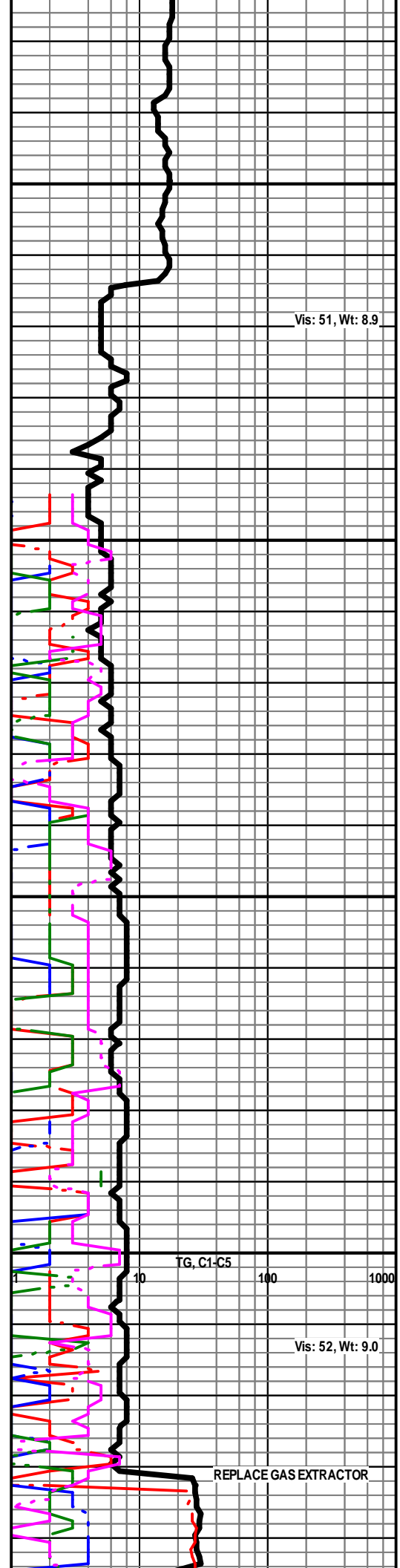
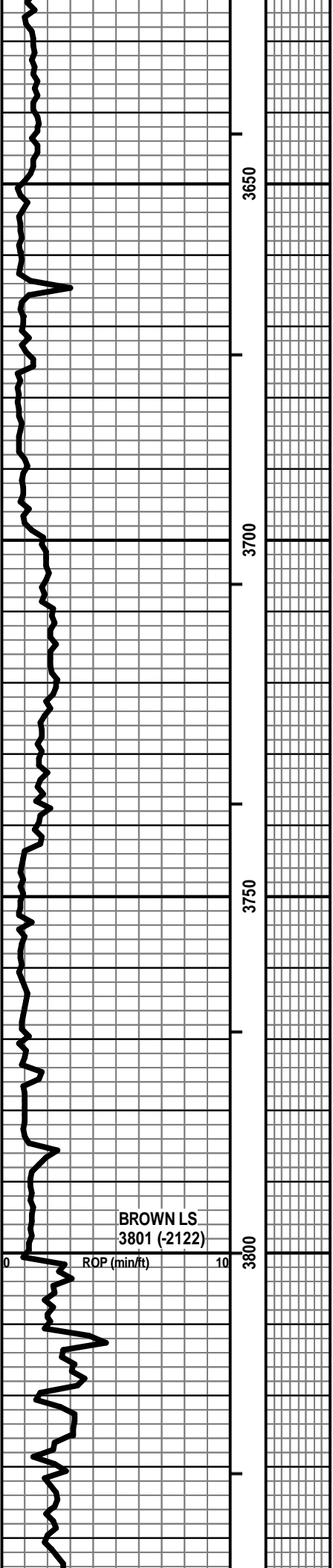
- Core
- ◻ Dst

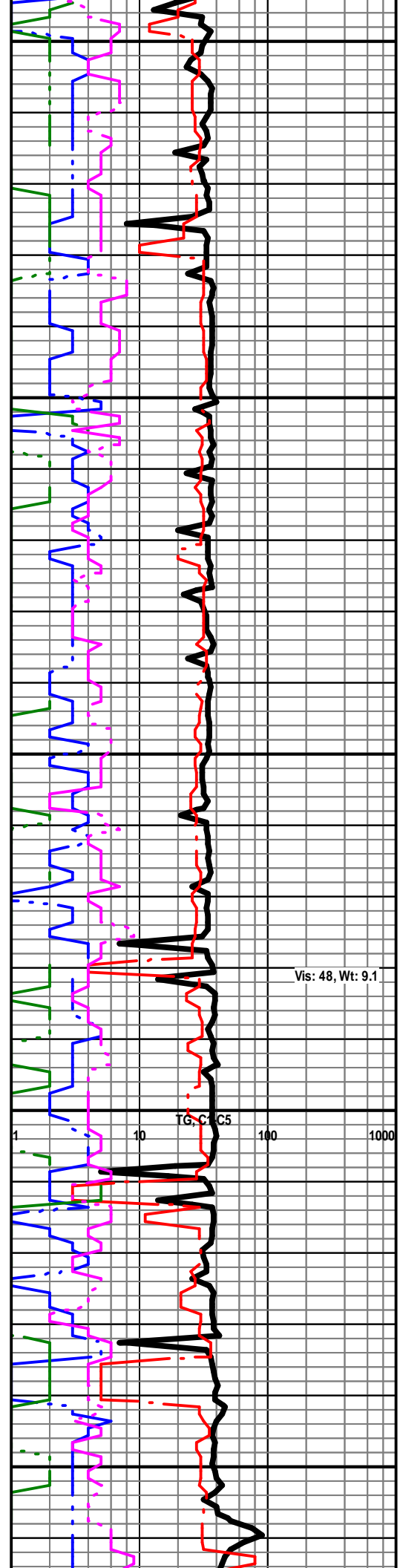
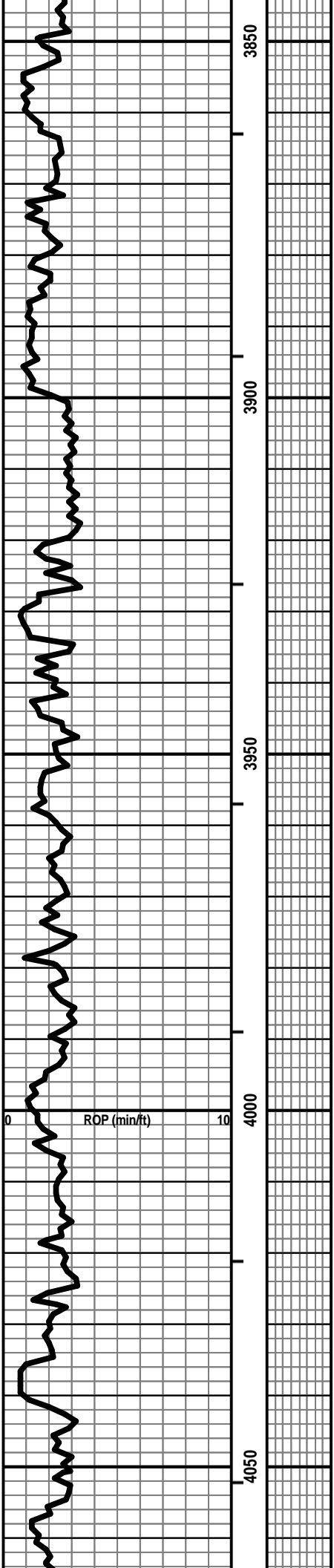
- Dst/2
- ◻ Dst

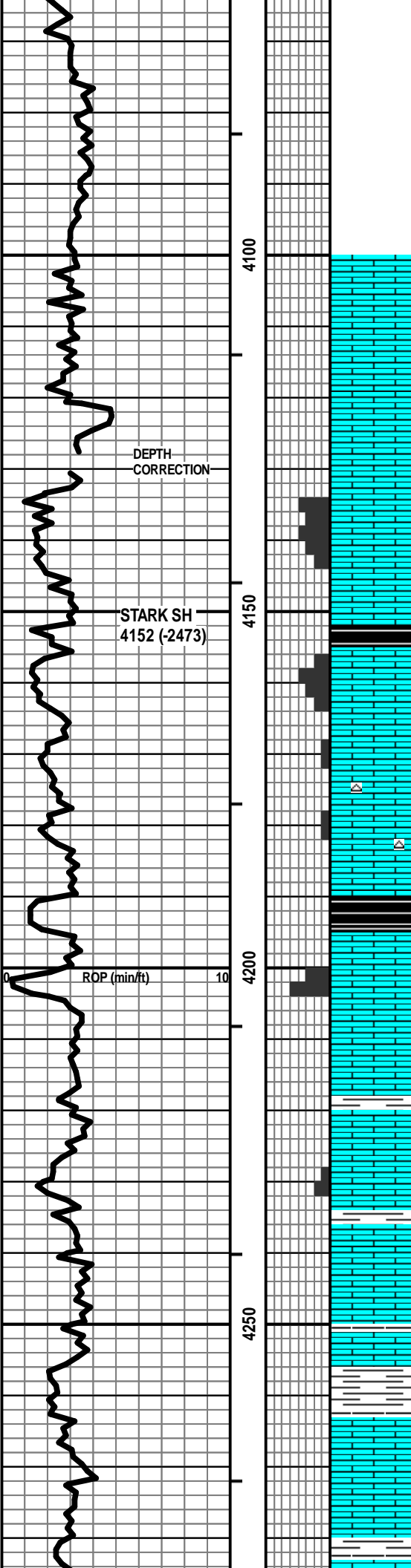
EVENTS

- ▽ Rft
- ▾ Sidewall
- ▬ Conn









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

Vis: 56, Wt: 9.2

LS - CRM / TAN / SCAT LT GY, F / VF XLN, OOL, SL FOSS, F / G OOM + INTXLN POR, NS, NO ODOR

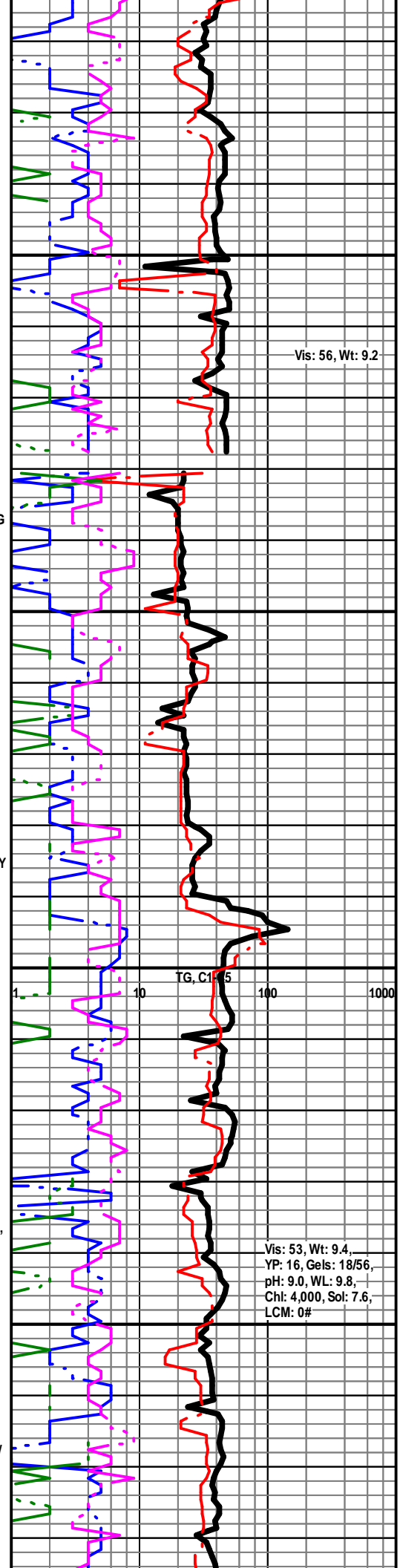
LS - CRM / TAN, F XLN, OOL, SL FOSS, F / G OOM + INTXLN POR, SCAT SUBCHKY / DNS, NS, NO ODOR

LS - CRM / TAN / LT GY, VF / F XLN, OOL, FOSS, P / SCAT F MOLDIC + INTXLN POR, NS, NO ODOR W / SCAT CHT - LT GY / WHT W / SH - BLK, CARB

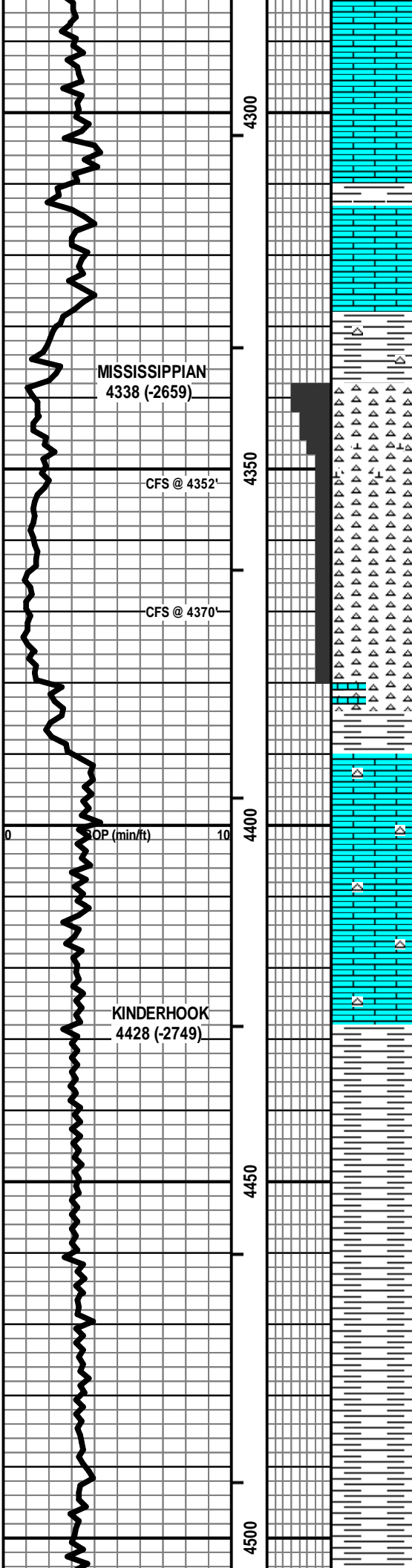
LS - TAN / CRM, VF / F XLN, OOL IN PT, SL FOSS, SCAT G OOM + INTXLN POR TO DNS, CHKY IN PT, NS, NO ODOR

LS - CRM / TAN / SCAT BRN, VF / F XLN, FOSS IN PT, SL OOL, SCAT P / TR F INTXLN POR, PRED SUBCHKY / DNS, NS

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



Vis: 53, Wt: 9.4,
YP: 16, Gels: 18/56,
pH: 9.0, WL: 9.8,
Chl: 4,000, Sol: 7.6,
LCM: 0#



LS - CRM / TAN, VF / F XLN, FOSS IN PT, CHKY IN PT, PRED DNS, NS

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

SH - GY / RED W / SCAT CHT - VIT, NS

CHT - PRED WHT / LT GY, 40% F / G WEATH, 10% F / G TRIP POR, SCAT VUG POR, F / G SFO + GB, SCAT ASPH, V FT ODOR, SPTY / SAT BRN / BLK STN W / SCAT LS - CRM / TAN, VF / F XLN, TR P INTXLN POR, PRED DNS, TR SPTY STN

CHT - WHT / LT GY / CRM / TAN, 20% P / G WEATH, TR F TRIP POR, PRED VIT, SCAT F SFO + GB, SCAT ASPH, NO ODOR, SCAT SPTY / TR SAT BRN / BLK STN

CHT - AS ABOVE, 20% P / G WEATH, PRED VIT, SCAT F SFO, SCAT ASPH, NO ODOR, SCAT SPTY / TR SAT BRN / BLK STN W / TR LS - CRM, F XLN, PRED DNS, SCAT SPTY STN

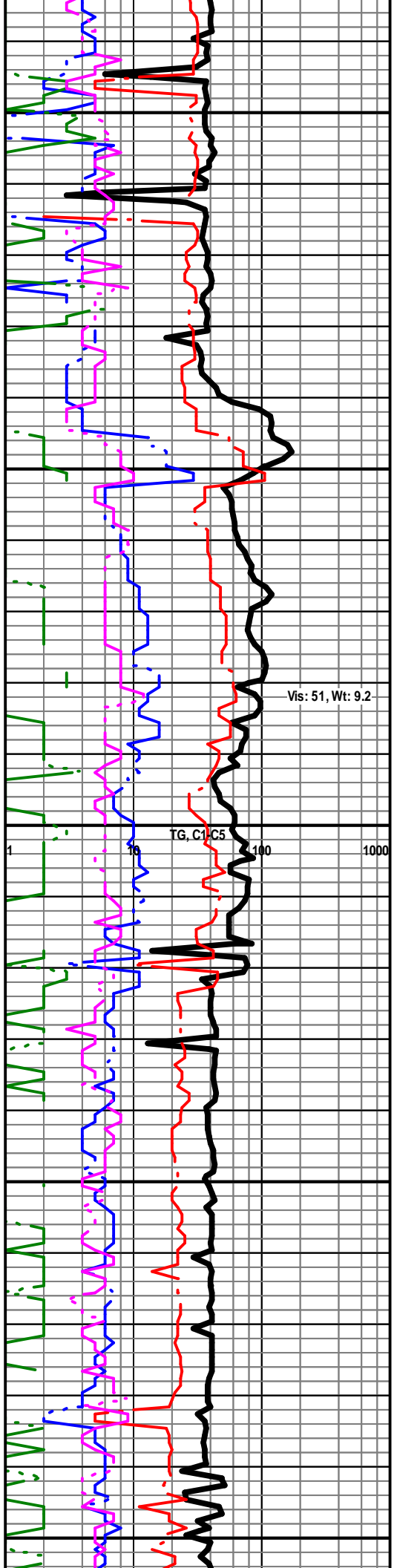
LS - CRM / TAN / GY, F SCAT M XLN, PRED DNS, NS W / CHT - PRED WHT / LT GY W / SH - LT / DK GY

LS - CRM / TAN / GY, F SCAT M XLN, PRED DNS, NS W / CHT - PRED WHT / LT GY

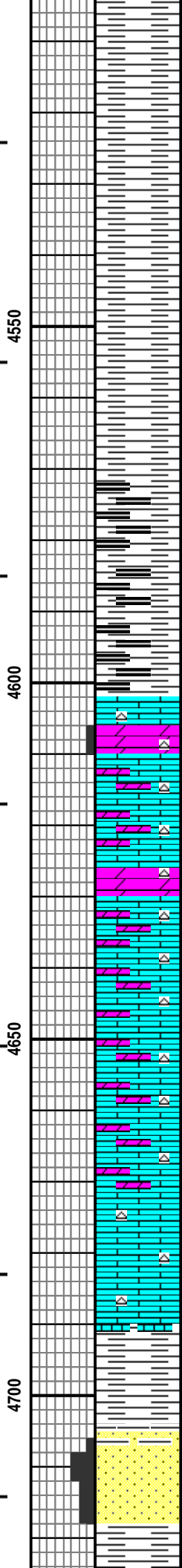
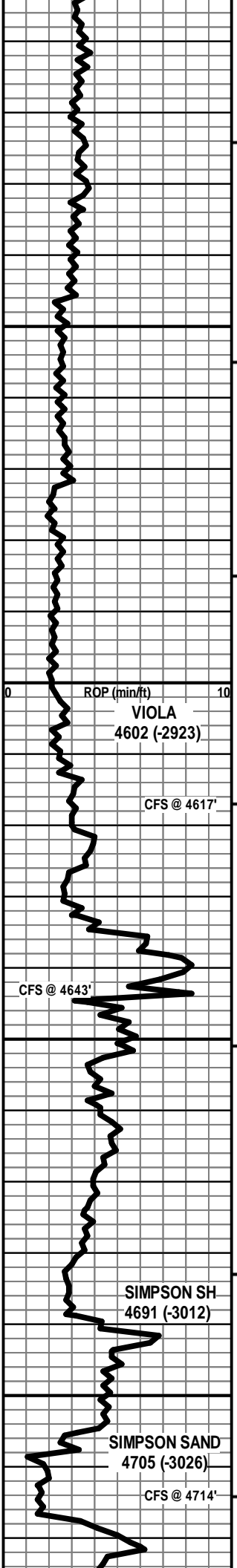
SH - LT / MED GY / SCAT GRN, SLTY IN PT

SH - LT / MED GY / SCAT GRN, SLTY IN PT

SH - LT / DK GY / SCAT GRN



Vis: 51, Wt: 9.2



SH - LT / DK GY / SCAT GRN

SH - LT / DK GY / SCAT GRN

SH - LT / DK GY / SCAT GRN W/ SH - BLK, CARB

LS (DOLO IN PT) + SCAT DOLOMITE - CRM / TAN / SCAT GY, MOT IN PT, F / M XLN, GRAN IN PT, CHTY IN PT, SCAT P / TR F INTXN POR, TR GB + V LT COL FO, TR ASPH, NO ODOR, TR ASPH STN

LS + SCAT DOLOMITE - AS ABOVE, VP / NO VIS POR, NS, NO ODOR W/ MOD AMT SH - GY / GRN (KINDERHOOK CAVINGS)

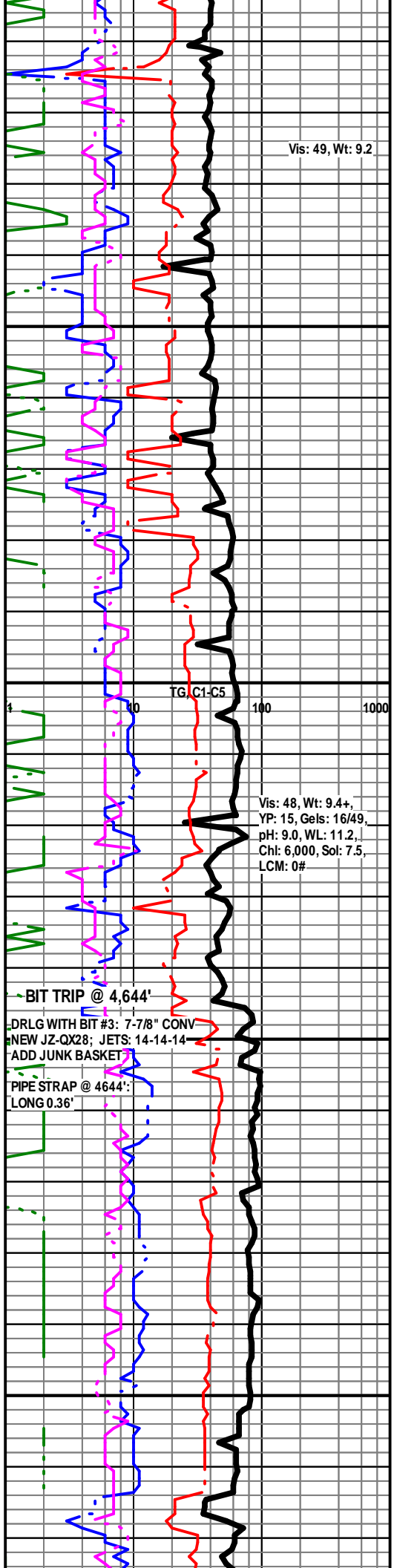
LS + SCAT DOLOMITE - AS ABOVE, VP / NO VIS POR, NS, NO ODOR W/ MOD AMT SH - GY / GRN (KINDERHOOK CAVINGS)

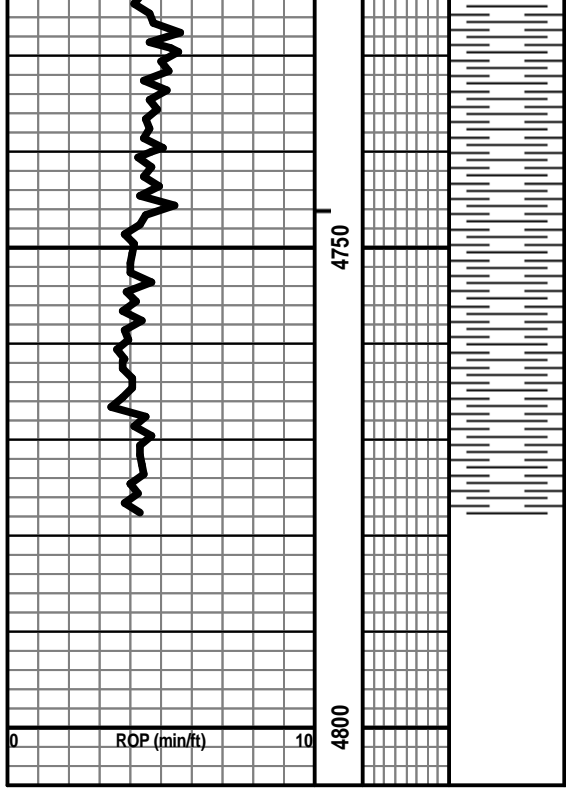
LS - CRM / TAN, MOT IN PT, F / M XLN, SL DOLO IN PT, PRED DNS, NS, NO ODOR W/ SCAT CHT - CRM / TAN

LS - CRM / TAN / SCAT GY, MOT IN PT, F / M XLN, V SL DOLO IN PT, PRED DNS, NS, NO ODOR W/ SCAT CHT - CRM / TAN / LT GY

SH - GRN / GY

SS - CLR / LT GY, VF / M QTZ GR, F / W SRTD, SR / WR, MOD CALC CEM, TR GLAUC, F / G INTGR POR IN PT, NS, NO ODOR W/ MOD AMT UNCONS QTZ, F / M GR, SR / WR



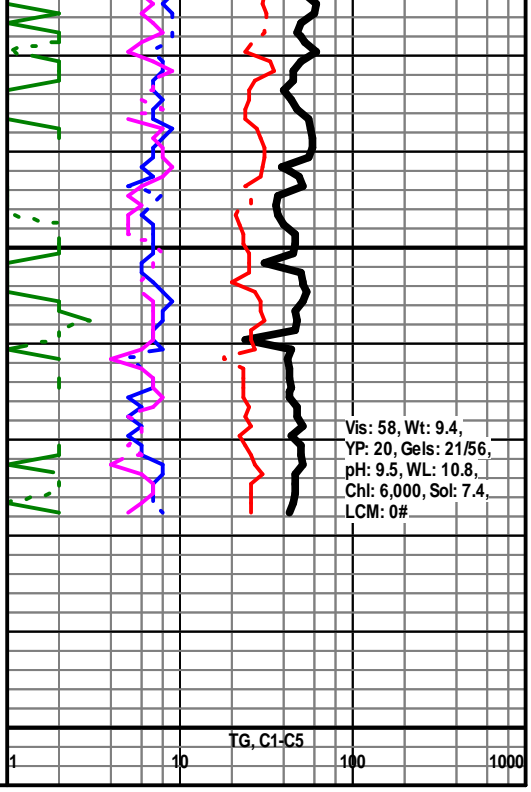


SH - GY / GRN W / SCAT SS CLSTRS - CLR / LT GY, VF QTZ
 GR, W SR TD, SA / SR, CALC CEM, MOD GLAUC. P / NO
 INTGR POR, NS, NO ODOR

SH - GY / GRN W / TR SLTST - LT / MED GY

SH - GY / GRN W / TR SLTST - LT / MED GY

TOTAL DEPTH 4778 (-3099)



Vis: 58, Wt: 9.4,
 YP: 20, Gels: 21/56,
 pH: 9.5, WL: 10.8,
 Chl: 6,000, Sol: 7.4,
 LCM: 0#

0 ROP (min/ft) 10

4800

1 10 TG, C1-C5 100 1000