

GEOLOGIC REPORT

DAVID J. GOLDAK

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

Well Name: Ash #2
Location: Section 27 - T32S - R12W
License Number: API: 15-007-23798
Spud Date: 11 / 14 / 2011
Surface Coordinates: 796' FSL and 692' FWL
Approx. C - SW - SW
Region: Barber Co., KS
Drilling Completed: 11 / 23 / 2011
Bottom Hole Coordinates:
Ground Elevation (ft): 1603' K.B. Elevation (ft): 1613'
Logged Interval (ft): 3500' To: 4925' Total Depth (ft): 4925'
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: 2400 N. Woodlawn, Suite 115
Wichita, Kansas 67220

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 - L116	4-14s	300	300	3.50
2	7-7/8	Varel HE21	3-14s	3143	2843	58.75
3	7-7/8	HTC-EP7321	3-14s	4761	1618	54.00
4	7-7/8	JZ-MD30M	3-14s	4925	164	11.75

SURVEYS: 300'-0.5, 1214'-0.5, 2211'-1.0, 2799'-0.75, 3361'-1.0, 3919'-1.0, 4667'-1.25



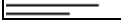

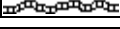



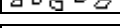

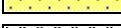
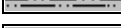
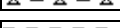

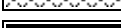







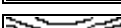


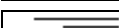




GENERAL DRILLING AND PUMP INFORMATION:

Drilling with 36,000-42,000 lbs. on bit and 75 RPM.
Pumping 64 S/M, 8.3 B/M, and 1000 psi at standpipe.























































































Daily Status

11/14/11 - Spud @ 9:30 PM; Set 8-5/8" Csg at 293'
 11/15/11 - 300' WOC; DP @ 1:30 PM
 11/16/11 - 1,244' Drilling
 11/17/11 - 2,220' Drilling
 11/18/11 - 3,025' Drilling; Bit trip @ 3,143'; Displace @ 3,609'
 11/19/11 - 3,670' Drilling
 11/20/11 - 4,260' Drilling
 11/21/11 - 4,705' Drilling; DST #1 @ 4,761'
 11/22/11 - 4,780' Drilling; RTD 4,925' @ 4:45 PM

ROCK TYPES

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

ACCESSORIES

MINERAL	 Salt	 Fossil	 Clystn
 Anhy	 Sandy	 Gastro	 Dol
 Arggrn	 Silt	 Oolite	 Grysh
 Arg	 Sil	 Ostra	 Gryslt
 Bent	 Sulphur	 Pelec	 Lms
 Bit	 Tuff	 Pellet	 Sandylms
 Brecfrag	 Chlorite	 Pisolite	 Sh
 Calc	 Dol	 Plant	 Slstsn
 Carb	 Sand	 Strom	
 Chtdk	 Slty	 Fuss	TEXTURE
 Chtlt	FOSSIL	 Oomold	 Boundst
 Dol	 Algae	STRINGER	 Chalky
 Feldspar	 Amph	 Anhy	 Cryxln
 Ferrpel	 Belm	 Arg	 Earthy
 Ferr	 Bioclst	 Bent	 Finexln
 Glau	 Brach	 Coal	 Grainst
 Gyp	 Bryozoa	 Dol	 Lithogr
 Hvymin	 Cephal	 Gyp	 Microxln
 Kaol	 Coral	 Ls	 Mudst
 Marl	 Crin	 Mrst	 Packst
 Minxl	 Echin	 Slststrg	 Wackest
 Nodule	 Fish	 Ssstrg	
 Phos	 Foram	 Carbsh	
 Pyr			

OTHER SYMBOLS

POROSITY TYPE

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

SORTING

- W Well
- M Moderate
- P Poor

ROUNDING

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

OIL SHOWS

- Even
- ⊙ Spotted
- ⊠ Ques
- Dead
- ⊞ Gas show

INTERVALS

- Core
- Dst

- Dst/2
- Dst

EVENTS

- ▽ Rft
- ▾ Sidewall
- ▬ Conn

DSTs

DST #1: 4,726' - 4,761' (Viola) 5" - 60" - 60" - 90"

IF: BOB in 2 seconds, GTS in 3 minutes

ISI: No blow back

FF: Gas guaged with 1/2" orifice:

10 min - 252 MCF, 20 min - 273 MCF, 30 min - 259 MCF

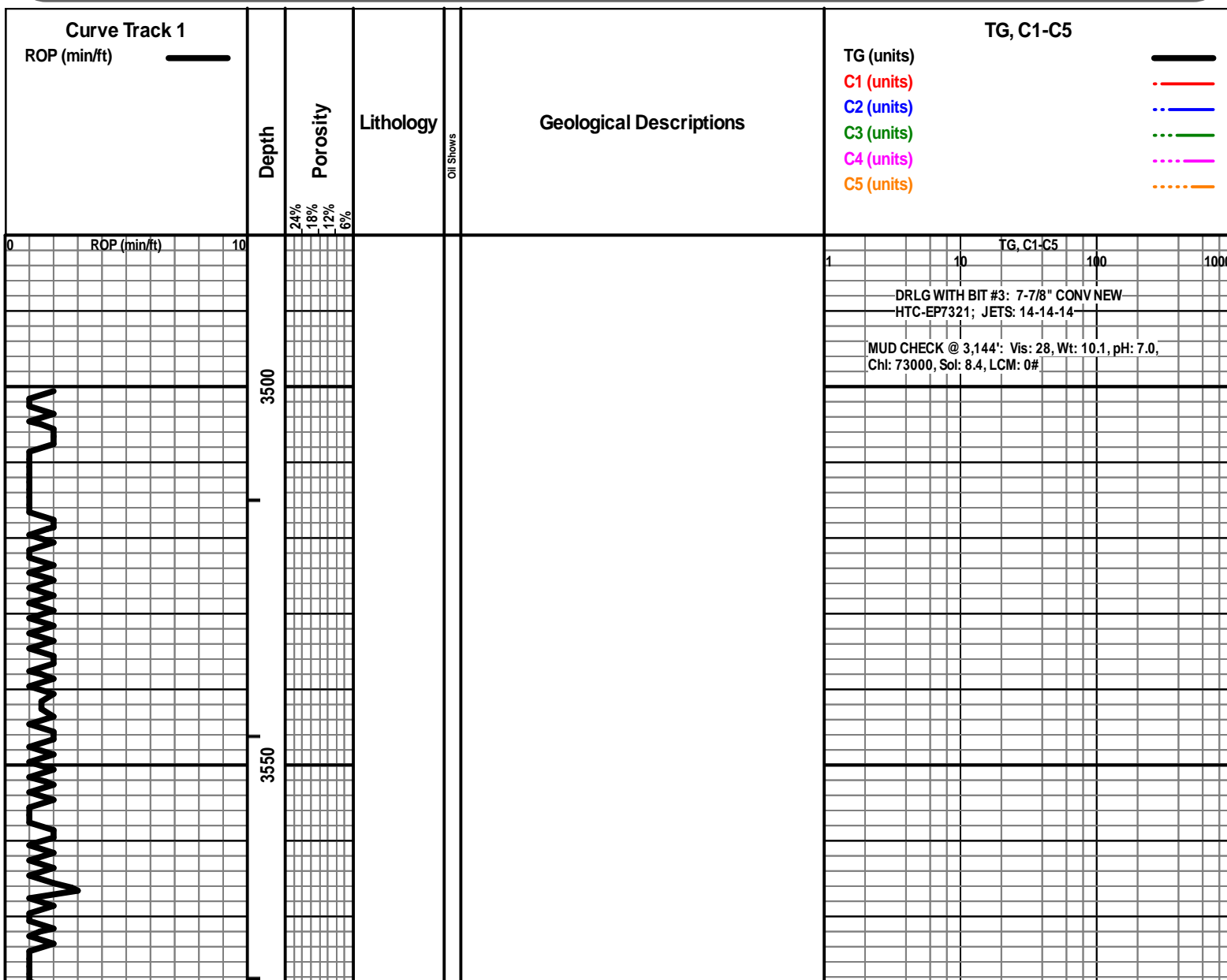
40 min - 246 MCF, 50 min - 225 MCF, 60 min - 212 MCF

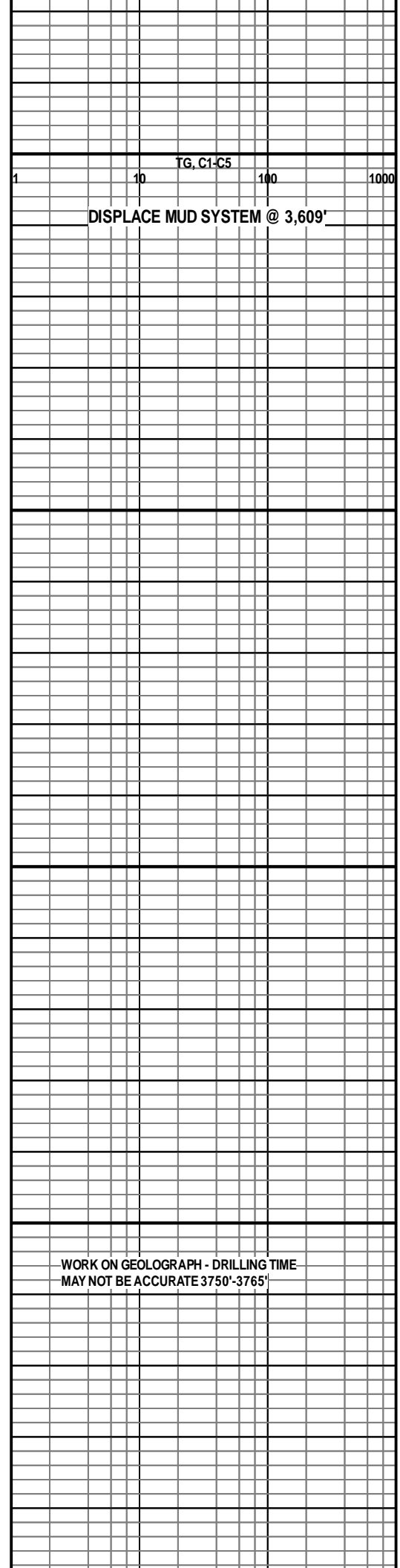
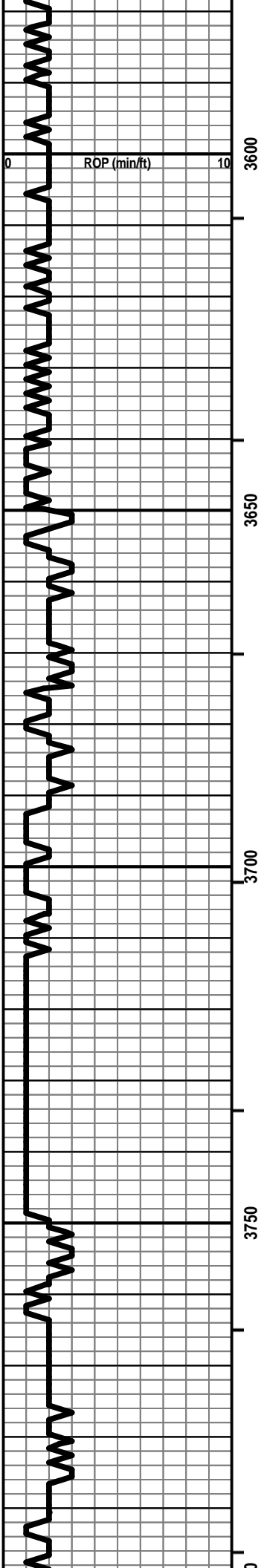
FSI: No blow back

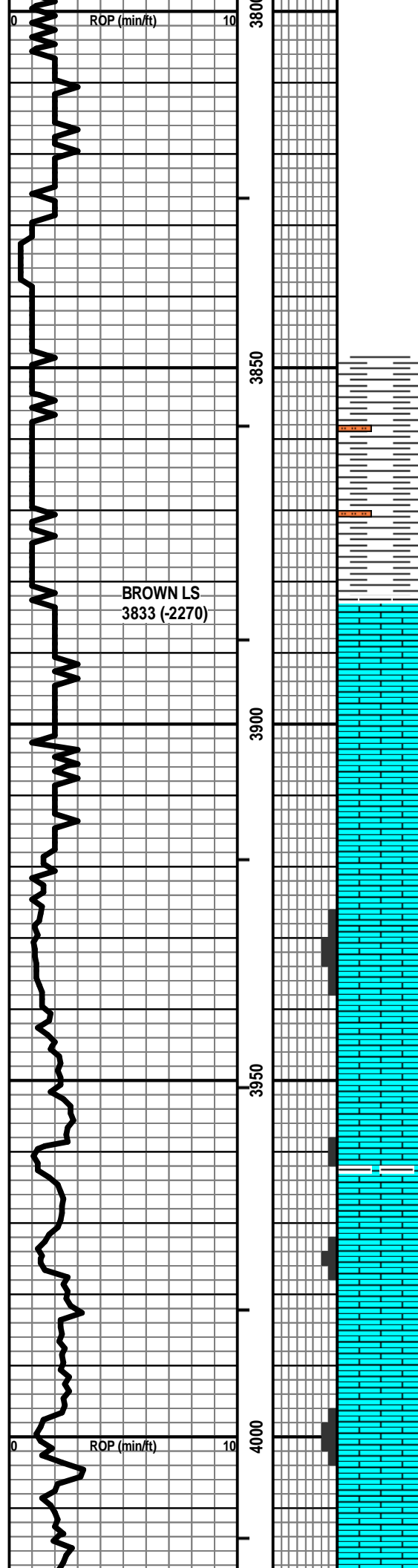
RECOVERY: 122' Total Fluid, consisting of:

122' GMCO (8% O, 48% O, 44% M)

SIP: 1794-1769; FP: 61-60, 64-60; HP: 2340-2341; BHT: 122







SH - LT / DK GY W/SLTST - GY W/SCAT SS - LT GY, VF QTZ GR, W SRTD, SR / R, MIC, F / G INTGR POR, NS

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

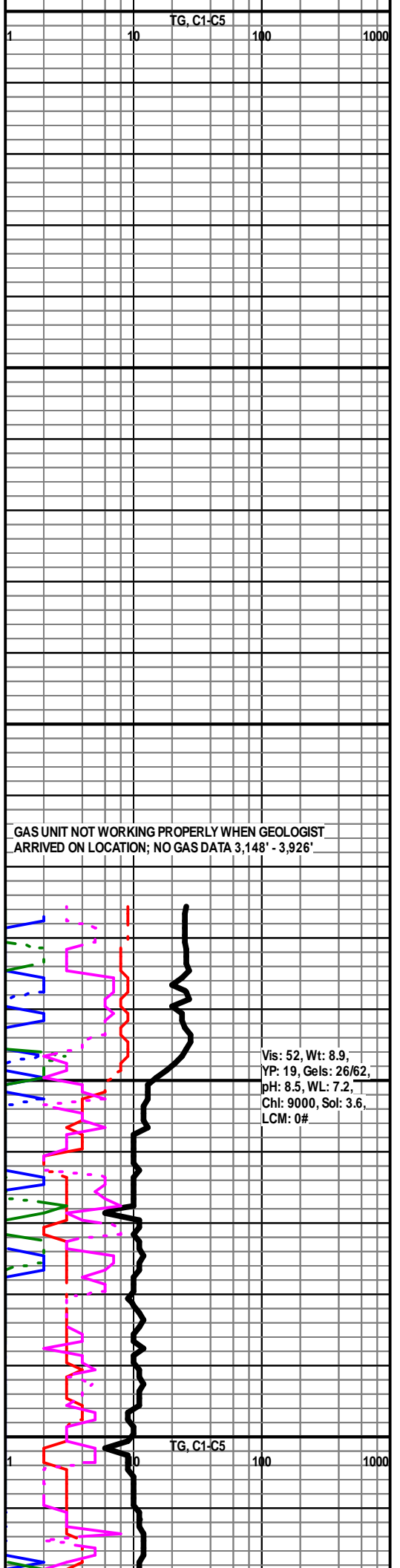
LS - CRM / TAN, VF / F XLN, SCAT REXLN CALC, FOSS, PRED DNS, NS

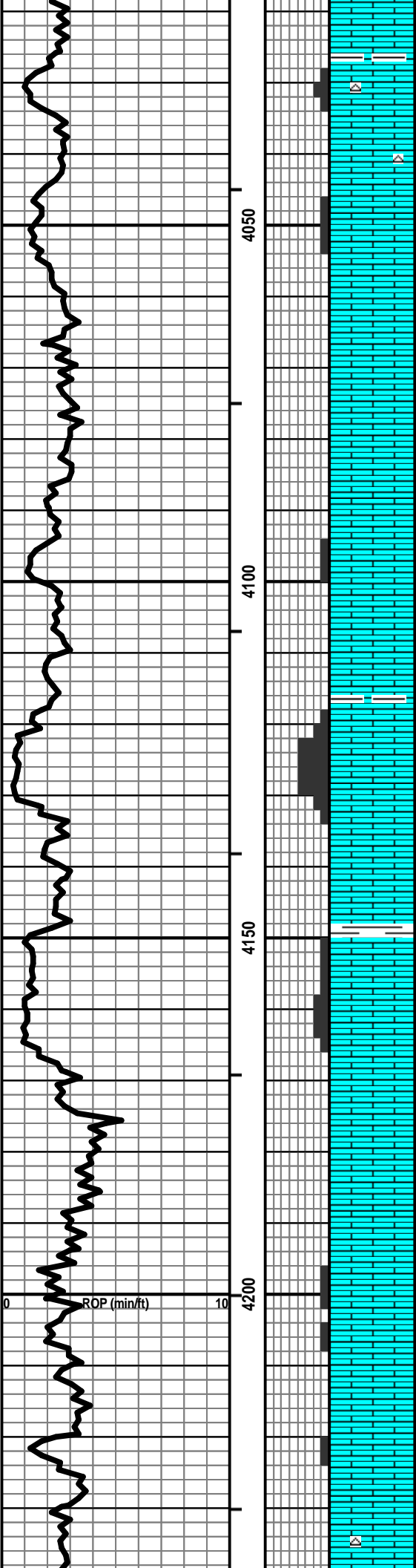
LS - CRM / GY / TAN, VF / F XLN, FOSS IN PT, P / SCAT F INTXLN + VUG POR, SCAT SUBCHKY, NS

LS - CRM / TAN / GY, VF / F XLN, FOSS IN PT, SCAT P / F VUG + INTXLN POR, CHKY IN PT, PRED DNS, NS

LS - TAN / BRN, VF / F / SCAT CRYPTO XLN, FOSS, PRED DNS, NS

LS - CRM / TAN, F XLN, FOSS IN PT, P / SCAT F INTXLN POR / DNS, NS





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

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

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

LS - CRM / TAN, F XLN, OOL, F / G OOM + INTXLN POR, SCAT
 CHKY, NS

LS - CRM / GY, VF / F XLN, FOSS + OOL IN PT, P / F, INTXLN +
 PPT POR, MOD CHKY, SCAT VSSGB, PRED NS, NO ODOR,
 NO FLOUR, NO CUT

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

LS - CRM / GY / TAN, VF / F XLN, FOSS + OOL IN PT, P INTXLN
 + VUG POR IN PT, CHKY IN PT / DNS, NS

Vis: 67, Wt: 9.0

TG, C1-C5
 10 100 1000

CFS @ 4480'

4500

4550

4600

4650

CHT - WHT / LT GY / SCAT CRM, MOD / V WEATH, F / G TRIP POR, F VUG POR, F / G SGB + FO, F ODOR, SAT / SPTY STN, PRED G FLOUR + CUT

CHT - WHT / LT GY / SCAT CRM, SIMILAR TO ABOVE, SL / V WEATH, P / G TRIP POR, SCAT VUG POR, F / G SGB + FO, FT ODOR, SAT / SPTY STN, PRED G GLOUR + CUT

CHT - LT GY / WHT / SCAT CRM, SL / MOD WEATH, P / G POR, TRIP IN PT, SL / F SGB + FO IN PT, SCAT GILS, SCAT BARR POR, SPTY / SAT STN, P / G FLOUR + CUT

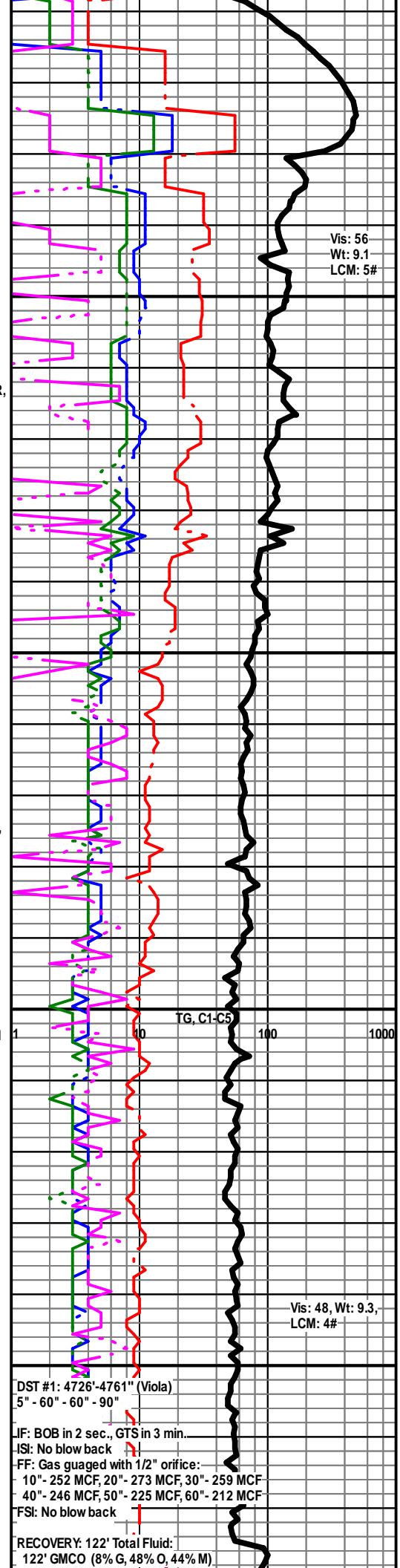
LS - TAN / BRN, VF / F XLN, SCAT REXLN CALC, SL FOSS, PRED DNS, NS W / CHT - WHT / LT GY, VIT

CHT - LT GY / WHT, VIT W / LS - TAN / BRN, V SIM TO ABOVE, PRED DNS, NS

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

SH - LT / DK GY / GRN / SCAT BLK

SH - LT / DK GY / BLK / SCAT GRN



Vis: 56
Wt: 9.1
LCM: 5#

Vis: 48, Wt: 9.3,
LCM: 4#

DST #1: 4726'-4761" (Viola)
5" - 60" - 60" - 90"

IF: BOB in 2 sec., GTS in 3 min.

IS: No blow back

FF: Gas gauged with 1/2" orifice:

10" - 252 MCF, 20" - 273 MCF, 30" - 259 MCF

40" - 246 MCF, 50" - 225 MCF, 60" - 212 MCF

FSI: No blow back

RECOVERY: 122' Total Fluid:
122' GMCO (8% G, 48% O, 44% M)

ROP (min/ft)

KINDERHOOK
4620 (-3007)

TG, C1-C5

SIP: 1794-1769 HP: 2340-2341
FP: 61-60, 64-60 BHT: 122

SH - GY / BLK / GRN, CARB IN PT

4700

VIOLA
4725 (-3112)

DOLO - LT GY / SCAT CRM, F / M XLN, RHOMB, P / F INTXLN
+ VUG POR, SL / F SGB, SSFO, FT ODOR, SPTY STN, G
FLOUR + CUT

4750

DOLO + LS - CRM / TAN / GY, MOT IN PT, VF / F XLN, AREN IN
PT, SCAT CHKY, CHTY IN PT, PRED DNS, NS

CFS @ 4761'

DST #1 @ 4,761'

PIPE STRAP @ 4,761': STRAP LONG 4.81'

DOLO + LS - CRM / TAN / GY, MOT IN PT, VF / F XLN, AREN IN
PT, SUBCHKY IN PT, CHTY IN PT, PRED DNS, NS

-DRLG WITH BIT #4: 7-7/8" CONV-
NEW JZ-MD30M; JETS: 14-14-14

DOLO + LS - CRM / TAN / GY / SCAT BRN, MOT IN PT, VF / F
XLN, TR AREN, SUBCHKY IN PT, PRED DNS, NS W/ SCAT
CHT - WHT / LT GY

4800

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

SIMPSON SAND
4834 (-3221)

SS - LT GY / TAN, PRED VF / F QTZ GR, W SRTD, SR / R, MOD
DOLO, P / NO INTGR POR, SSGB IN PT, VSSFO IN PT, NO
ODOR, TR SPTY LT STN, NO / G FLOUR, NO / F CUT W/ SH -
GY / GRN

4850

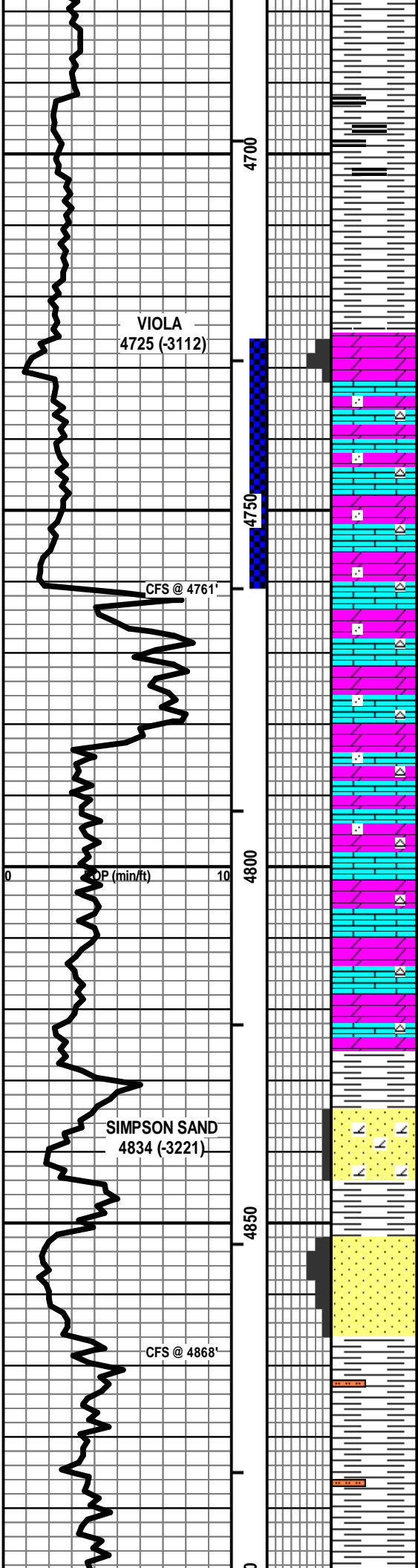
SS - LT GY / CLR, PRED VF / F QTZ GR, SCAT VF / M GR, F / W
SRTD, SR / WR, MOD CALC CEM, P / G INTGR POR, SL / F
SGB IN PT, SSFO IN PT, NO ODOR, SCAT SPTY LT STN, NO / G
FLOUR + CUT W/ SCAT SS - MED GY / TAN, VF QTZ GR,
SLTY IN PT, P / NO SGB + FO W/ SH - GRN / GY

CFS @ 4868'

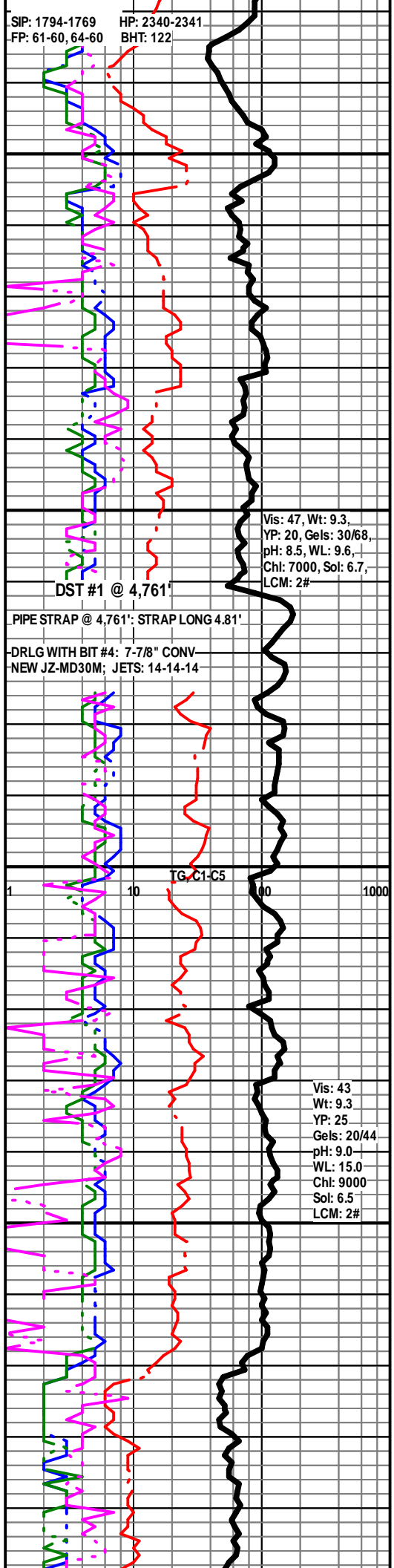
SH - MED / DK GY / GRN, SLTY IN PT

Vis: 47, Wt: 9.3,
YP: 20, Gels: 30/68,
pH: 8.5, WL: 9.6,
Chl: 7000, Sol: 6.7,
LCM: 2#

Vis: 43
Wt: 9.3
YP: 25
Gels: 20/44
pH: 9.0
WL: 15.0
Chl: 9000
Sol: 6.5
LCM: 2#

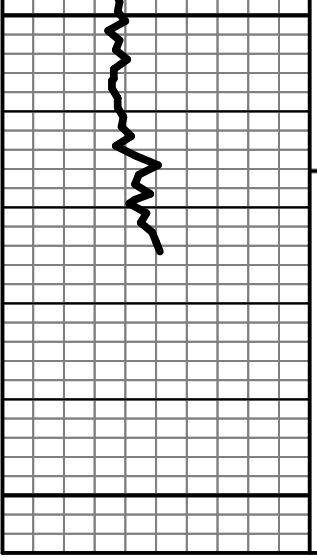


SH - GY / BLK / GRN, CARB IN PT
DOLO - LT GY / SCAT CRM, F / M XLN, RHOMB, P / F INTXLN + VUG POR, SL / F SGB, SSFO, FT ODOR, SPTY STN, G FLOUR + CUT
DOLO + LS - CRM / TAN / GY, MOT IN PT, VF / F XLN, AREN IN PT, SCAT CHKY, CHTY IN PT, PRED DNS, NS
DOLO + LS - CRM / TAN / GY, MOT IN PT, VF / F XLN, AREN IN PT, SUBCHKY IN PT, CHTY IN PT, PRED DNS, NS
DOLO + LS - CRM / TAN / GY / SCAT BRN, MOT IN PT, VF / F XLN, TR AREN, SUBCHKY IN PT, PRED DNS, NS W/ SCAT CHT - WHT / LT GY
DOLO + LS - CRM / TAN / BRN, MOT IN PT, VF / F XLN, SUBCHKY IN PT, PRED DNS, NS W/ SCAT CHT - WHT / LT GY
SS - LT GY / TAN, PRED VF / F QTZ GR, W SRTD, SR / R, MOD DOLO, P / NO INTGR POR, SSGB IN PT, VSSFO IN PT, NO ODOR, TR SPTY LT STN, NO / G FLOUR, NO / F CUT W/ SH - GY / GRN
SS - LT GY / CLR, PRED VF / F QTZ GR, SCAT VF / M GR, F / W SRTD, SR / WR, MOD CALC CEM, P / G INTGR POR, SL / F SGB IN PT, SSFO IN PT, NO ODOR, SCAT SPTY LT STN, NO / G FLOUR + CUT W/ SCAT SS - MED GY / TAN, VF QTZ GR, SLTY IN PT, P / NO SGB + FO W/ SH - GRN / GY
SH - MED / DK GY / GRN, SLTY IN PT

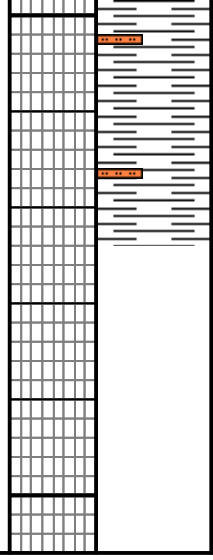


Vis: 47, Wt: 9.3,
YP: 20, Gels: 30/68,
pH: 8.5, WL: 9.6,
Chl: 7000, Sol: 6.7,
LCM: 2#

Vis: 43
Wt: 9.3
YP: 25
Gels: 20/44
pH: 9.0
WL: 15.0
Chl: 9000
Sol: 6.5
LCM: 2#

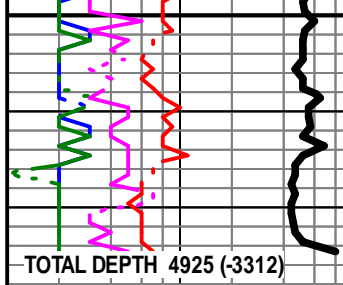


4900
4950



SH - MED / DK GY / GRN, SLTY IN PT

SH - MED / DK GY / GRN, SLTY IN PT



TOTAL DEPTH 4925 (-3312)

Vis: 55, Wt: 9.3,
LCM: 2#