

# GEOLOGIC REPORT

## DAVID J. GOLDAK

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

Well Name: Ash "A" #2  
Location: Section 27 - T32S - R12W  
License Number: API: 15-007-23794  
Spud Date: 10 / 31 / 2011  
Surface Coordinates: 2310' FNL and 990' FWL  
SE - SW - NW  
Region: Barber Co., KS  
Drilling Completed: 11 / 09 / 2011  
Bottom Hole Coordinates:  
Ground Elevation (ft): 1570' K.B. Elevation (ft): 1580'  
Logged Interval (ft): 3500' To: 4880' Total Depth (ft): 4880'  
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	280	280	2.50
2	7-7/8	Varel-HE21	3-14s	1711	1431	21.25
3	7-7/8	HTC-EP7321	3-14s	4735	3024	95.50
4	7-7/8	JZ-QX28S	3-14s	4880	145	10.00

SURVEYS: 280'-0.75, 1276'-0.75, 2272'-0.75, 3116'-0.5,  
3897'-1.5, 4424'-1.0, 4735'-1.0, 4880'- 1.0



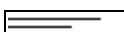
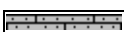
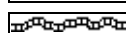



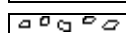





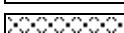
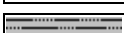
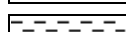
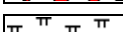
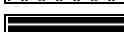

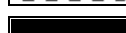
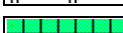

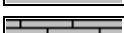




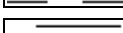

#### GENERAL DRILLING AND PUMP INFORMATION:

Drilling with 36,000-42,000 lbs. on bit and 75 RPM.  
Pumping 65 S/M, 8.5 B/M, and 1150 psi at standpipe.






















































































## Daily Status

10/31/11 - Spud @ 10:15 AM; Set 8-5/8" Csg at 268'  
 11/01/11 - 443' Drilling  
 11/02/11 - 1,650' Drilling; Bit trip @ 1,711'  
 11/03/11 - 2,350' Drilling; Twisted off @ 2,445'  
 11/04/11 - 2,538' Drilling; Displace @ 2,993'  
 11/05/11 - 3,116' Drilling  
 11/06/11 - 3,928' Repairing pump  
 11/07/11 - 4,424' CFS  
 11/08/11 - 4,735' TIH with Bit #4  
 11/09/11 - 4,830' TIH after DST #1; RTD 4,880' @ 12:15 PM

## 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

<b>MINERAL</b>	 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	 Slststn
 Carb	 Sand	 Strom	
 Chtdk	 Slty	 Fuss	<b>TEXTURE</b>
 Chtlt	<b>FOSSIL</b>	 Oomold	 Boundst
 Dol	 Algae	<b>STRINGER</b>	 Chalky
 Feldspar	 Amph	 Anhy	 Cryxln
 Ferrpel	 Belm	 Arg	 Earthy
 Ferr	 Bioclst	 Bent	 Finexln
 Glau	 Brach	 Coal	 Grainst
 Gyp	 Bryozoa	 Dol	 Lithogr
 Hvymin	 Cephal	 Ls	 Microxln
 Kaol	 Coral	 Mrst	 Mudst
 Marl	 Crin	 Slststrg	 Packst
 Minxl	 Echin	 Ssstrg	 Wackest
 Nodule	 Fish	 Carbsh	
 Phos	 Foram		
 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: 4,784' - 4,830' (Simpson Sand) 30" - 60" - 45" - 90"**

IF: Weak surface blow

ISI: No blow back

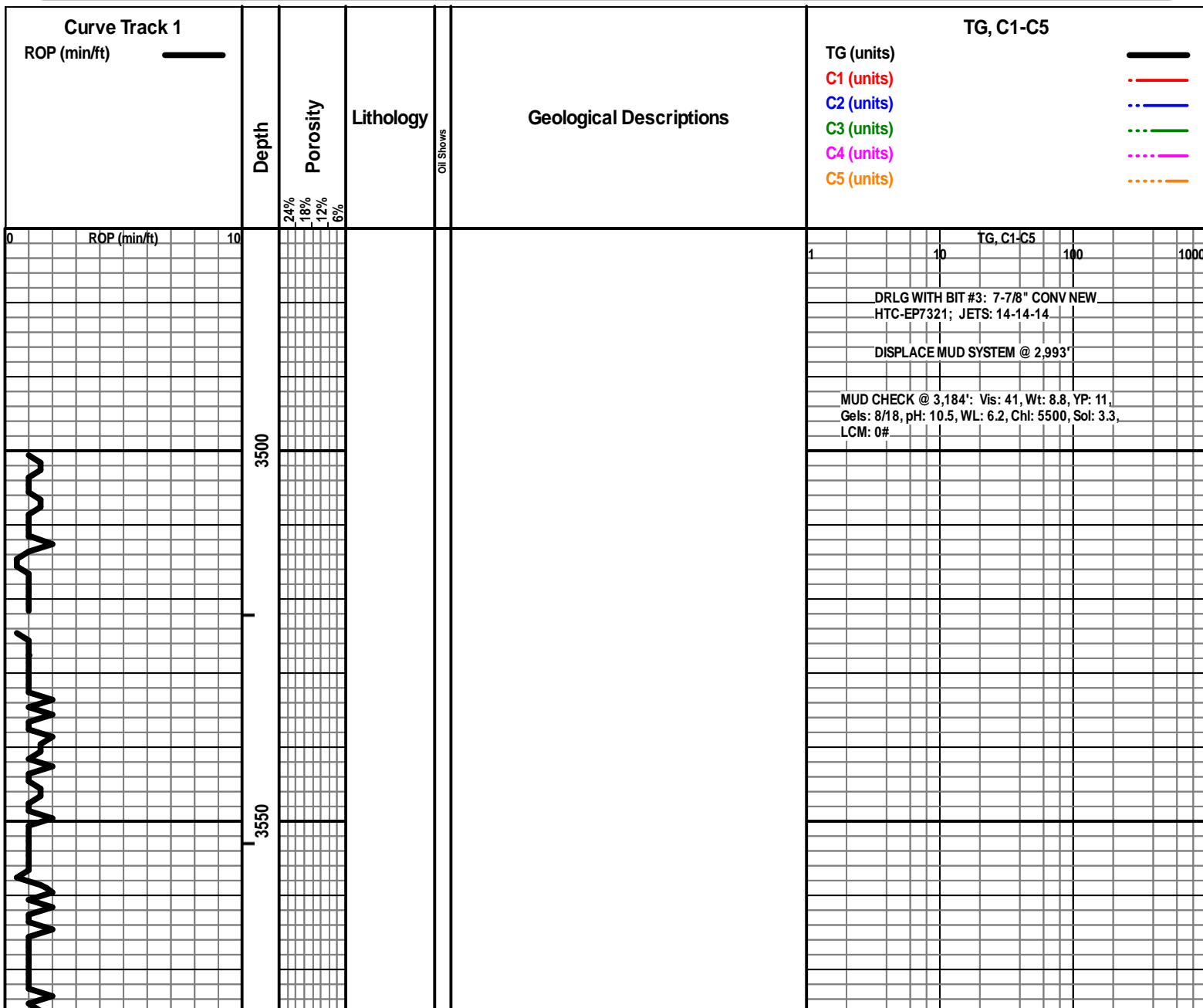
FF: No blow

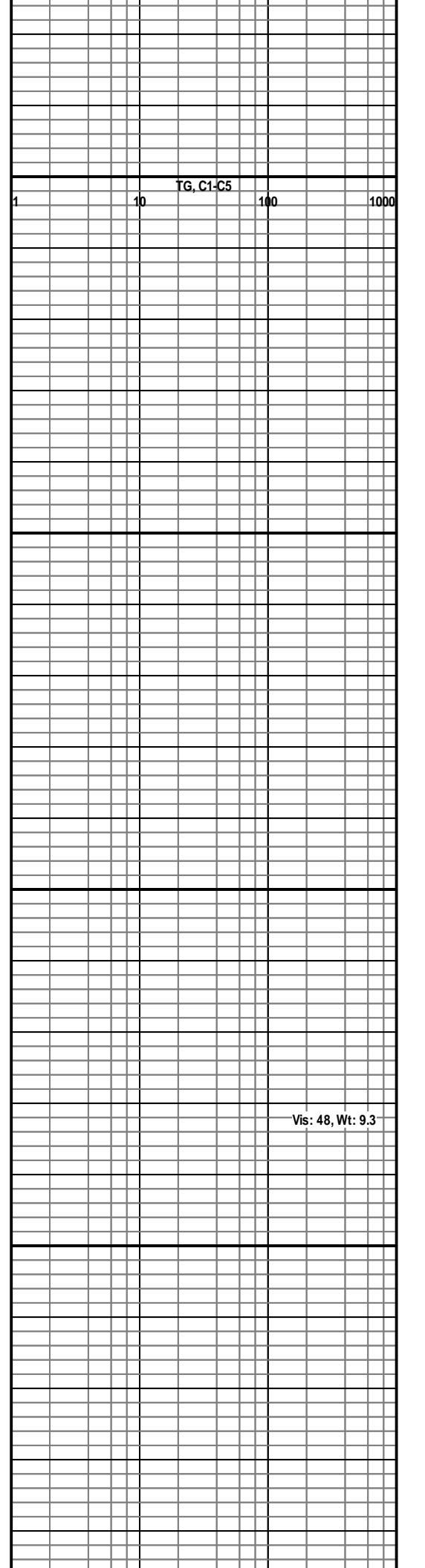
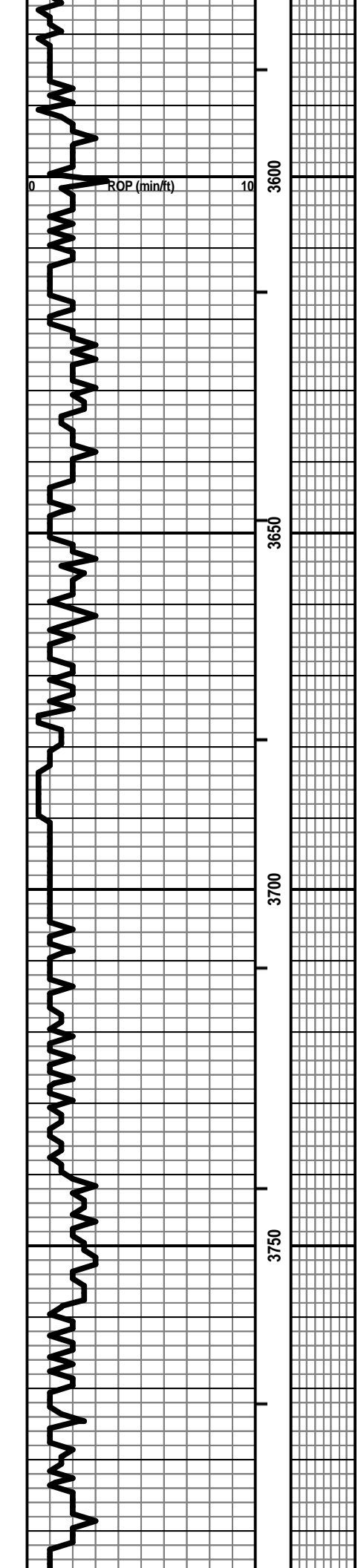
FSI: No blow back

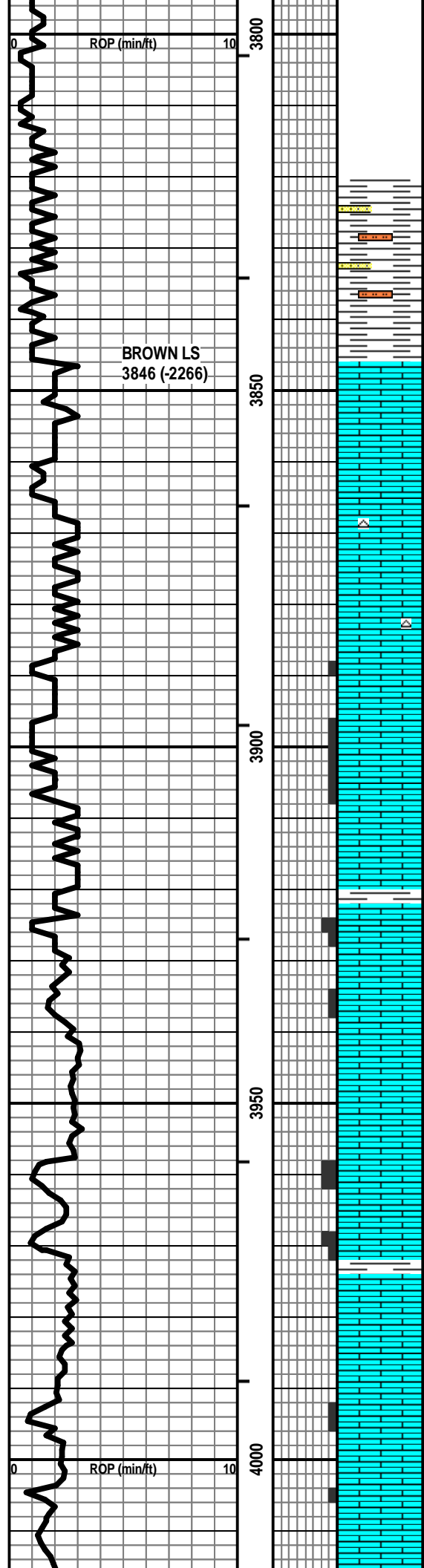
RECOVERY: 10' Total Fluid, consisting of:

10' Mud (100% Mud)

SIP: 54-44; FP: 28-42, 26-28; HP: 2373-2323; BHT: 120







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

**BROWN LS**  
3846 (-2266)

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

LS - TAN / CRM / SCAT GY, VF / F XLN, SCAT M REXLN CALC,  
FOSS IN PT, PRED DNS, NS W/SCAT CHT - LT GY

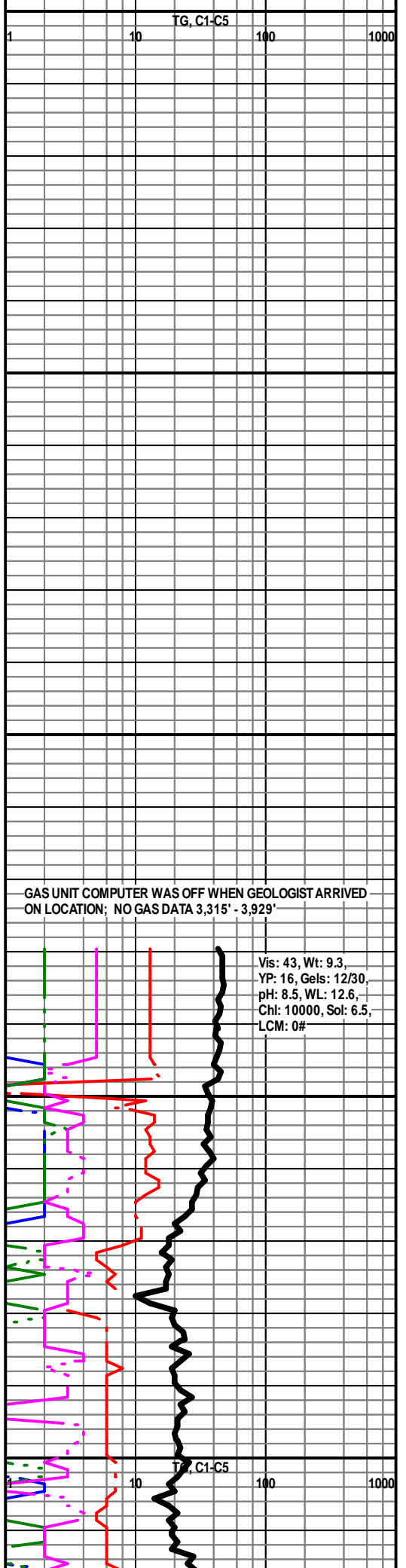
LS - CRM / TAN, VF / F XLN, FOSS IN PT, SCAT PRED P  
INTXLN POR, CHKY IN PT, NS

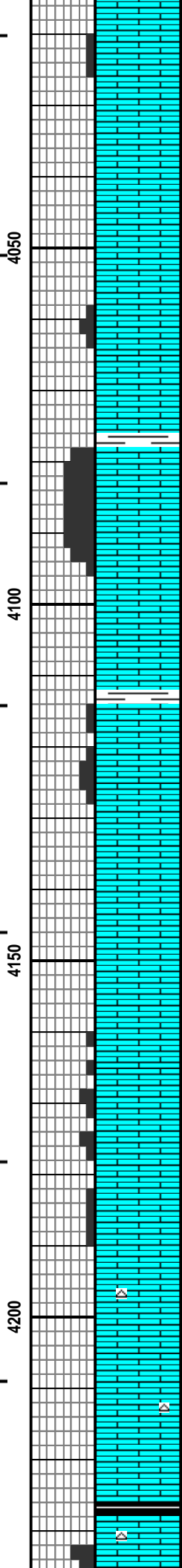
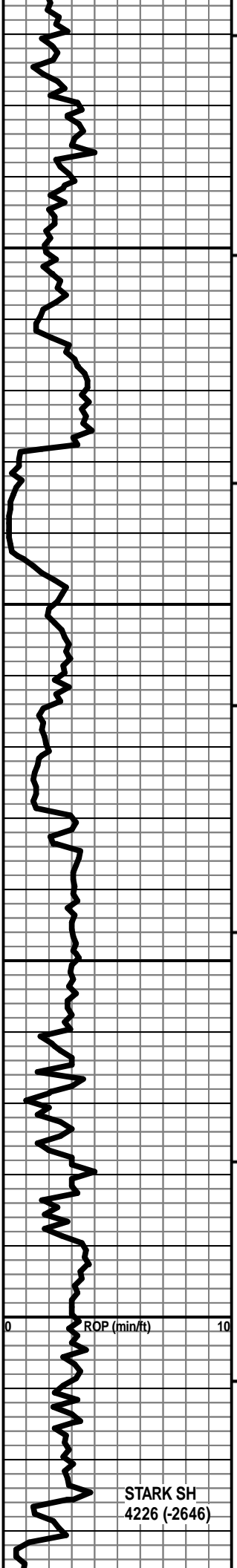
LS - CRM / LT GY / TAN, VF / F XLN, FOSS, SCAT P / TR F PPT  
+ VUG POR, SUBCHKY IN PT, PRED DNS, NS

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

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

LS - CRM / GY, VF / F XLN, SL FOSS, SCAT P INTXLN POR,  
PRED DNS, NS





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

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

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

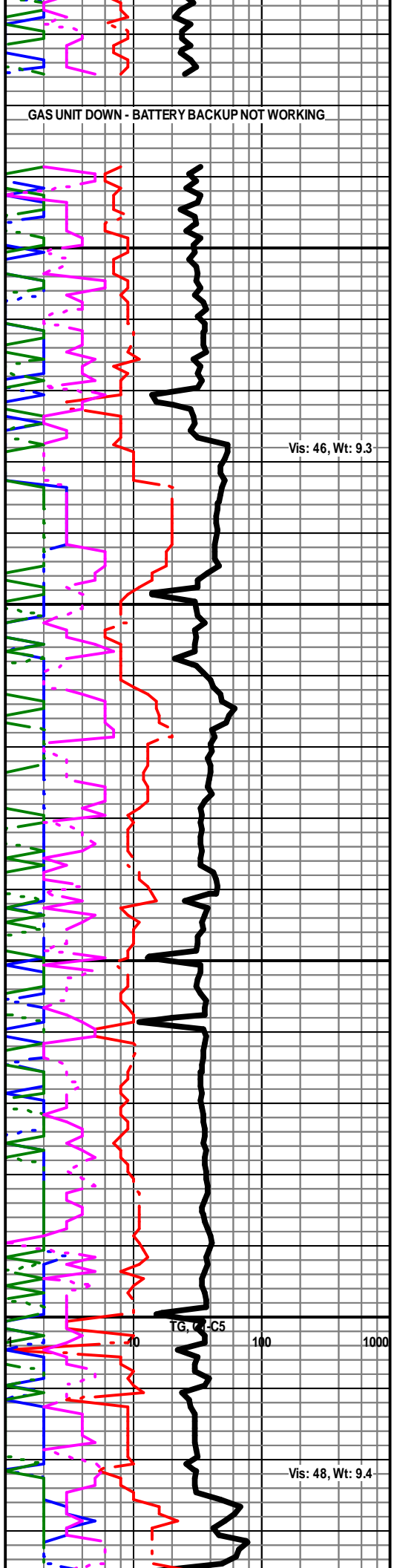
LS - CRM / TAN / SCAT GY, VF / F XLN, FOSS IN PT, P / F PPT + INTXLN POR IN PT, PRED DNS, NS

LS - CRM / WHT / SCAT TAN, MOT IN PT, PRED VF / CRYPTO XLN, SL FOSS, CHKY IN PT, PRED DNS, NS

LS - CRM / GY / BRN, VF / F XLN, OOL IN PT, P / F VUG + OOM POR IN PT, P / NO INTXLN POR, SCAT CHKY / DNS, NS

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

LS - CRM / TAN, F / VF XLN, OOL IN PT, F INTXLN POR IN PT, TR P / F OOM POR, CHKY IN PT, VSSGB, VSSFO, SCAT GILS,



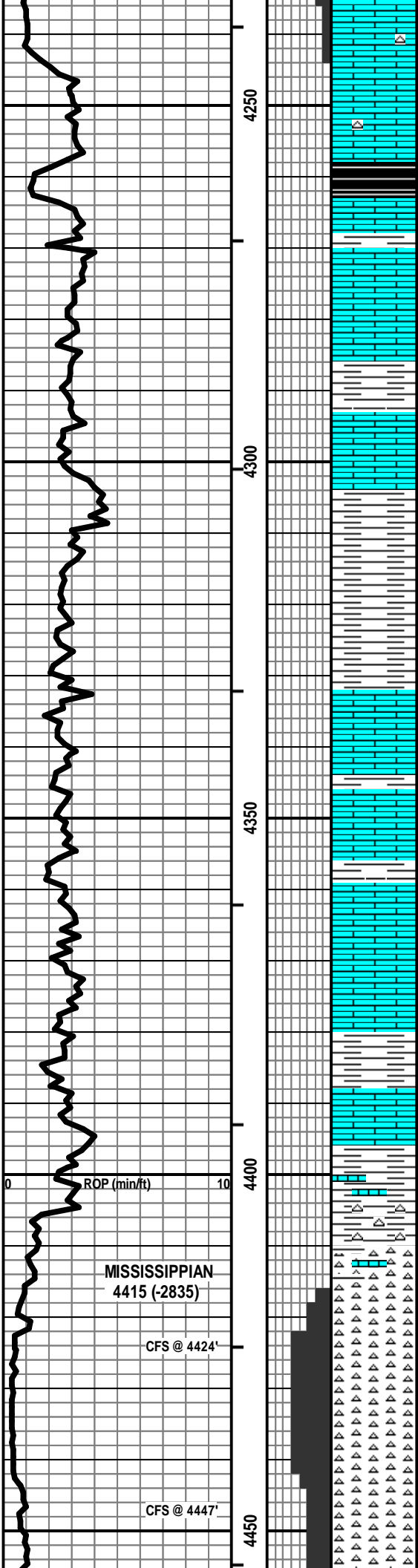
GAS UNIT DOWN - BATTERY BACKUP NOT WORKING

Vis: 46, Wt: 9.3

TG, C5 100 1000

Vis: 48, Wt: 9.4

STARK SH  
4226 (-2646)



MOD BARR POR W/ SCAT CHT - LT GY/ WHT

LS - CRM / TAN, VF XLN, TR FOSS, PRED DNS, NS W/ SCAT  
 CHT - ASABOVE W/ SH - BLK, CARB

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

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

SH - MED / DK GY

LS - TAN / BRN / SCAT CRM, MOT IN PT, F / M XLN, FOSS IN  
 PT, PRED DNS, NS W/ SH - MED / DK GY / SCAT GRN

LS - CRM / WHT / SCAT TAN, VF / CRYPTO XLN, SL FOSS,  
 SUBCHKY IN PT, PRED DNS, NS

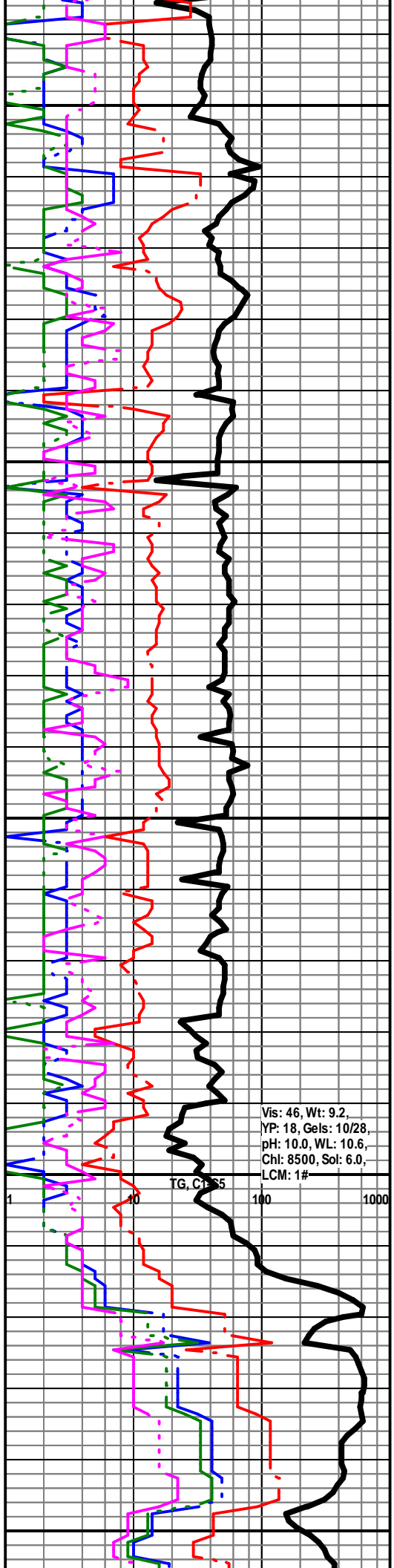
LS - CRM / TAN / SCAT BRN, VF / F XLN, SCAT REXLN CALC,  
 PRED DNS, NS W/ SH - MED / DK GY / BLK

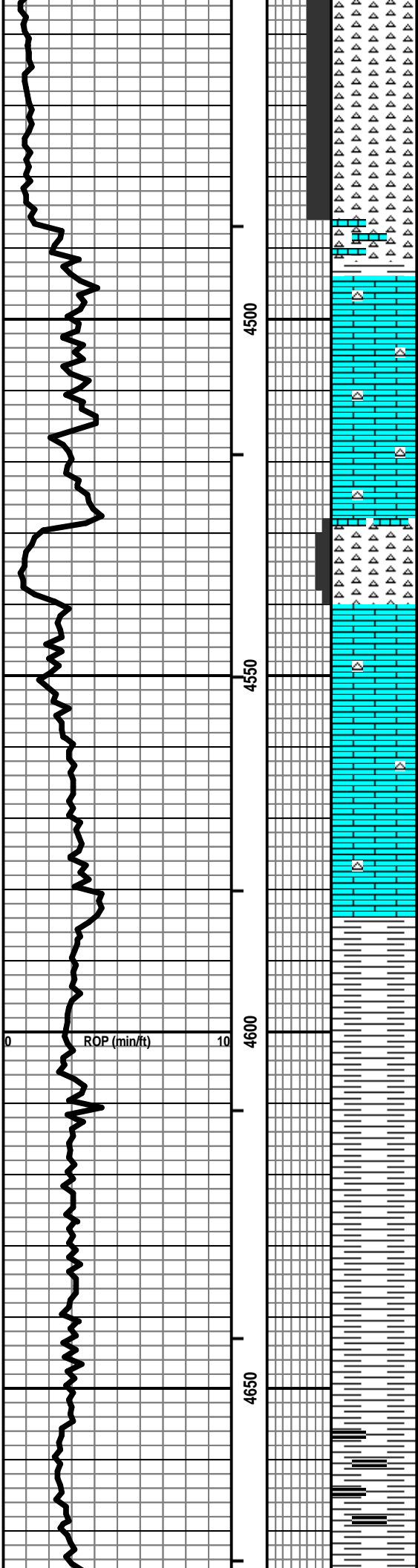
SH + LS ASABOVE W/ CHT - WHT / LT GY / CRM, AREN +  
 CALC IN PT, SL WEATH, SCAT F POR, SL / F SGB + FO IN PT,  
 SPTY STN

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

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

CHT - WHT / LT GY / SCAT CRM, SL / MOD WEATH, F / G POR,





TRIP IN PT, FSGB IN PT, SL / F SFO IN PT, GILS IN PT, FT  
ODOR, SPTY / SAT BRN / BLK STN, P / G FLOUR + CUT

CHT - WHT / LT GY / SCAT CRM, SL / MOD WEATH, F / G POR,  
TRIP IN PT, SSGB + SSFO IN PT, GILS IN PT, SCAT BARR, FT  
ODOR, SPTY / SAT BLK / BRN STN, P / G FLOUR + CUT

(V POOR SAMPLES) PRED SH - LT / DK GY W/ SCAT LS -  
CRM / TAN, VF XLN, PRED DNS, NS W/ SCAT CHT - WHT / LT  
GY, VIT

(V POOR SAMPLES) PRED SH - LT / DK GY W/ SCAT LS -  
TAN / BRN, VF / F XLN, FOSS IN PT, PRED DNS, NS W/ SCAT  
CHT - WHT / LT GY, VIT

(V POOR SAMPLES) PRED SH - LT / DK GY W/ SCAT CHT -  
WHT / LT GY / CRM, VIT W/ SCAT LS - AS ABOVE

(FAIR SAMPLES) LS - TAN / CRM / GY, VF / F XLN, TR FOSS,  
PRED DNS, NS W/ SCAT CHT - WHT / LT GY, VIT W/ ABNT  
SH - LT / DK GY

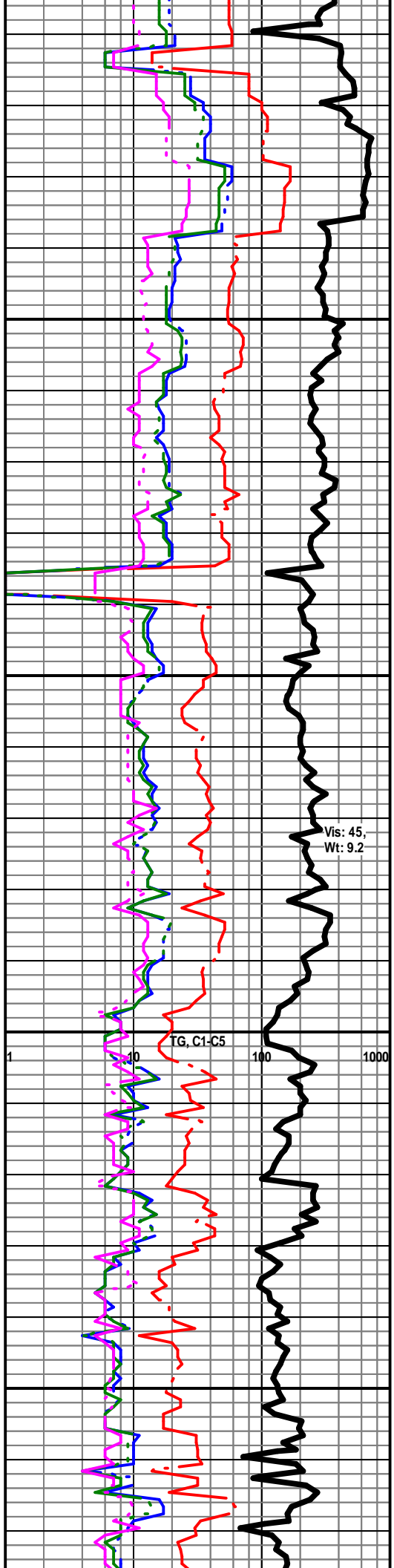
AS ABOVE

PRED SH - GY / GRN / BLK

SH - GY / GRN / SCAT BLK

SH - GY / GRN / SCAT BLK

SH - BLK / GY / SCAT GRN





VIOLA  
4688 (-3108)

4700

DOLO + DOLO LS - GY / CRM / SCAT TAN, MOT IN PT, F / SCAT M XLN, AREN IN PT, SCAT PINTXLN POR, PRED DNS, TR GB, SCAT GILS, NO ODOR, SCAT SPTY BLK STN, F / NO FLOUR, P / NO CUT

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

4750

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

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

SIMPSON SAND  
4796 (-3216)

4800

SS - LT GY / CLR, VF / F GR, SR / R, W SRTD, V DOLO, P / NO INTGR POR, TR GB, VSSFO, V FT ODOR, SCAT SPTY STN, P / F FLOUR + CUT

SS - CLR / LT GY, VF / F / SCAT M GR, SR / WR, W SRTD, MOD CALC CEM, P / G INTGR POR, SCAT P POR, SCAT SL / F SGB + FO + OILY FILM, MOD AMT NS, NO ODOR, SCAT SPTY LT STN, P / G FLOUR + CUT

SS - CLR / LT GY, VF / F / SCAT M GR, SR / WR, W SRTD, MOD CALC CEM, F / G INTGR POR, TR P POR, F / G SGB + OILY FILM, SL / F SFO, SOME BARR, FT ODOR, SPTY / SAT LT STN, P / G FLOUR + CUT W / SH - GY / GRN

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

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

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

4850

BIT TRIP @ 4,735'

DRLG WITH BIT #4: 7-7/8" CONV RR  
JZ-QX28S; JETS: 14-14-14

DST #1: 4784'-4830" (Simpson Sd)  
30" - 60" - 45" - 90"  
IF: Weak surface blow  
IS: No blow back  
FF: No blow  
FSI: No blow back  
RECOVER: 10' Total Fluid:  
10' Mud (100% Mud)  
SIP: 54-44 HP: 2373-2323  
FP: 28-42, 26-28 BHT: 120

Vis: 46  
Wt: 9.1  
YP: 14  
Gels: 21/41  
pH: 8.0  
WL: 12.0  
Chl: 7000  
Sol: ?  
LCM: 2#

Vis: 47,  
Wt: 9.2

Vis: 50,  
Wt: 9.3

TOTAL DEPTH 4880 (-3300)

ROP (min/ft) 10

CFS @ 4818'

CFS @ 4830'

1 10 100 1000 TG, C1-C5

