



MID CONTINENT WELL LOGGING SERVICE, INC.

CONTINUOUS WELL LOGGING / COMPLETE HYDROCARBON ANALYSIS

2222 WESTPARK DR. STE. A
NORMAN, OK 73069
OFFICE (405) 360-7333
OPERATIONS (405) 590-3655
SALES (405) 203-9989

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

Well Name: ALTON 3306 1-23 SANDRIDGE ENERGY INC.
Location: Section 23, T33S, R6W
License Number: 15-077-21952-00-00 Region: HARPER CO., KS
Spud Date: 7/21/13 Drilling Completed: 7/27/13
Surface Coordinates: SHL: 660' FNL & 560' FWL of Section 23, T33S, R6W
Bottom Hole REPORT FOR: TAMMY ALCORN
Coordinates: LOGGERS: MR. AARON KING, MS. MINDY CAUDILL
Ground Elevation (ft): 1,308' K.B. Elevation (ft): 1,318'
Logged Interval (ft): 3,100' To: 4,920' Total Depth (ft): 4,920'
Formation: MISSISSIPPIAN
Type of Drilling Fluid: WATER/NATIVE MUD

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

OPERATOR

Company: Sandridge Energy, INC.
Address: 123 Robert S. Kerr Avenue, Ste. 2430
Oklahoma City, Oklahoma 73102-6406

GEOLOGIST

Name: TAMMY ALCORN
Company: Sandridge Energy, Inc
Address: 123 Robert S. Kerr Avenue, Ste. 2430
Oklahoma City, Oklahoma 73102-6406

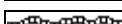
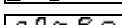
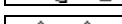
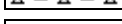
Cores

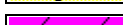
DSTs

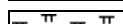
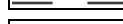
Comments

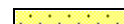
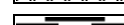
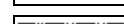
LOGGERS: MR. AARON KING, MRS. MINDY CAUDILL
MCWL TRAILER: #25

ROCK TYPES

 Sndylm
 Anhy
 Bent
 Brec
 Cht
 Clyst

 Coal
 Leach
 Congl
 Dol
 Gyp
 Igne

 Lmst
 Meta
 Mrlst
 Salt
 Shale
 Shcol

 Shgy
 Ss
 Till
 Hotsh
 Sltst

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

FOSSIL

 Algae
 Amph
 Belm
 Bioclst
 Brach
 Bryozoa
 Cephal
 Coral

 Crin
 Echin
 Fish
 Foram
 Fossil
 Gastro
 Oolite
 Ostra
 Pelec
 Pellet
 Pisolite
 Plant
 Strom

STRINGER

 Anhy
 Arg
 Bent
 Coal
 Dol

 Gyp
 Ls
 Mrst
 Ssstrg
 Sltstrg

TEXTURE

 Boundst
 Chalky
 Cryxln
 Earthy
 Finexln
 Grainst
 Lithogr
 Microxln
 Mudst
 Packst
 Wackest

OTHER SYMBOLS

POROSITY

 Earthy
 Fenest
 Fracture
 Inter
 Moldic
 Organic
 Pinpoint
 Vuggy
 New symbol

 New symbol
 Sndylm
 New symbol

SORTING

 Well
 Moderate
 Poor

ROUNDING

 Rounded
 Subrnd
 Subang
 Angular

OIL SHOW

 Even
 Spotted
 Ques

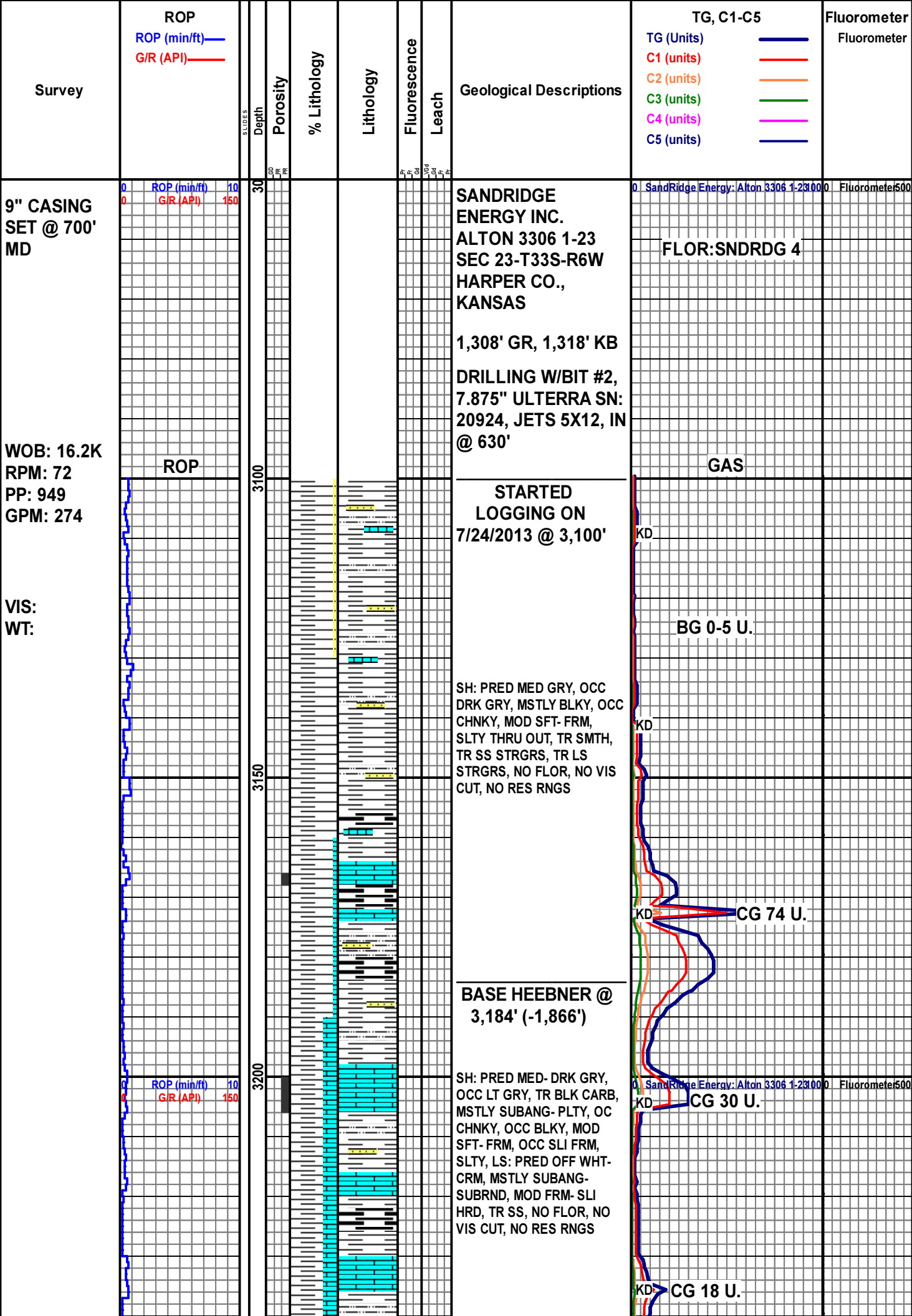
 Dead

INTERVAL

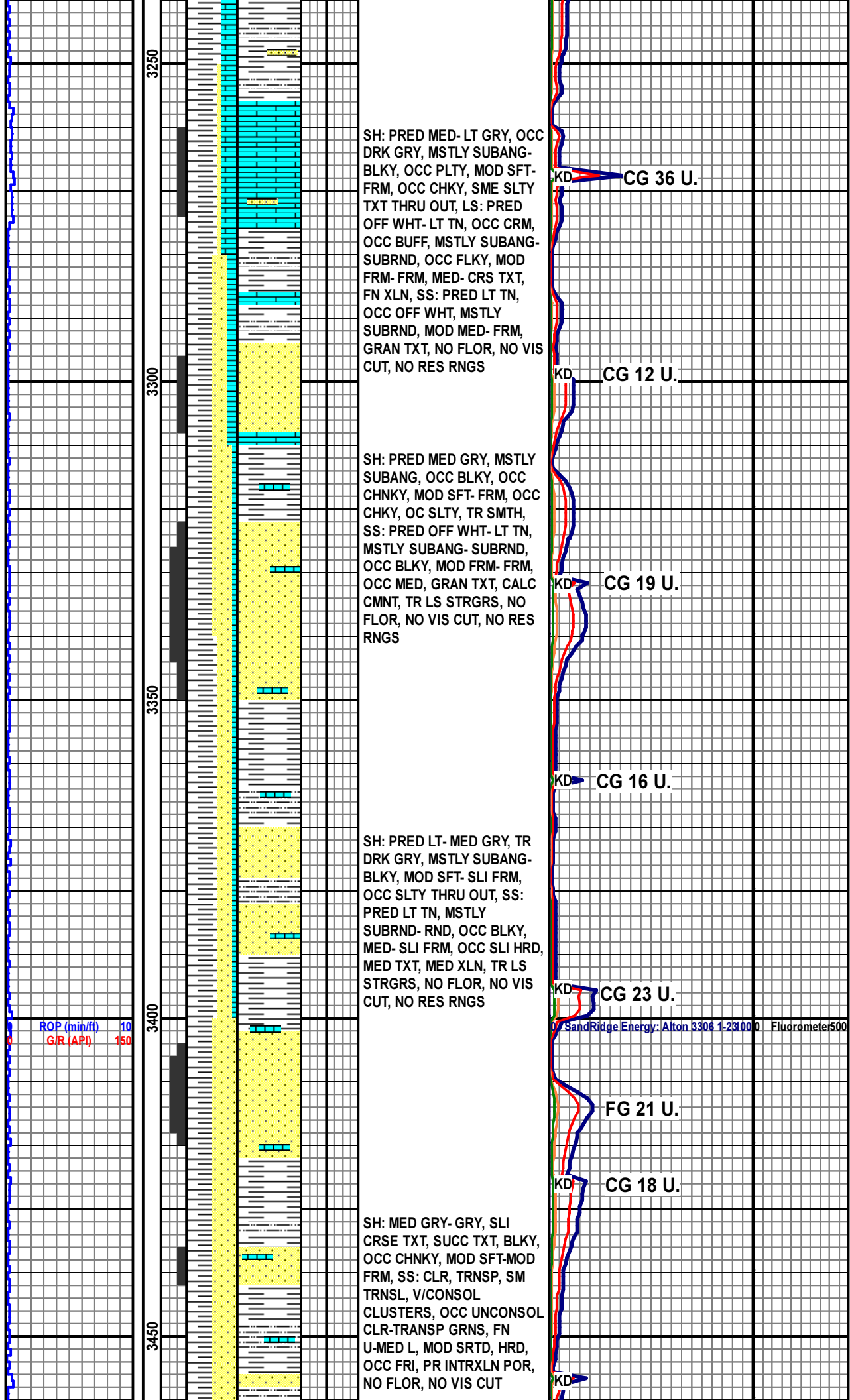
 Core
 Dst

EVENT

 Rft
 Sidewall



WOB: 8.4K
RPM: 79
PP: 1166
GPM: 427



SH: PRED MED- LT GRY, OCC DRK GRY, MSTLY SUBANG-BLKY, OCC PLTY, MOD SFT-FRM, OCC CHKY, SME SLTY TXT THRU OUT, LS: PRED OFF WHT- LT TN, OCC CRM, OCC BUFF, MSTLY SUBANG-SUBRND, OCC FLKY, MOD FRM- FRM, MED- CRS TXT, FN XLN, SS: PRED LT TN, OCC OFF WHT, MSTLY SUBRND, MOD MED- FRM, GRAN TXT, NO FLOR, NO VIS CUT, NO RES RNGS

SH: PRED MED GRY, MSTLY SUBANG, OCC BLKY, OCC CHNKY, MOD SFT- FRM, OCC CHKY, OC SLTY, TR SMTH, SS: PRED OFF WHT- LT TN, MSTLY SUBANG- SUBRND, OCC BLKY, MOD FRM- FRM, OCC MED, GRAN TXT, CALC CMNT, TR LS STRGRS, NO FLOR, NO VIS CUT, NO RES RNGS

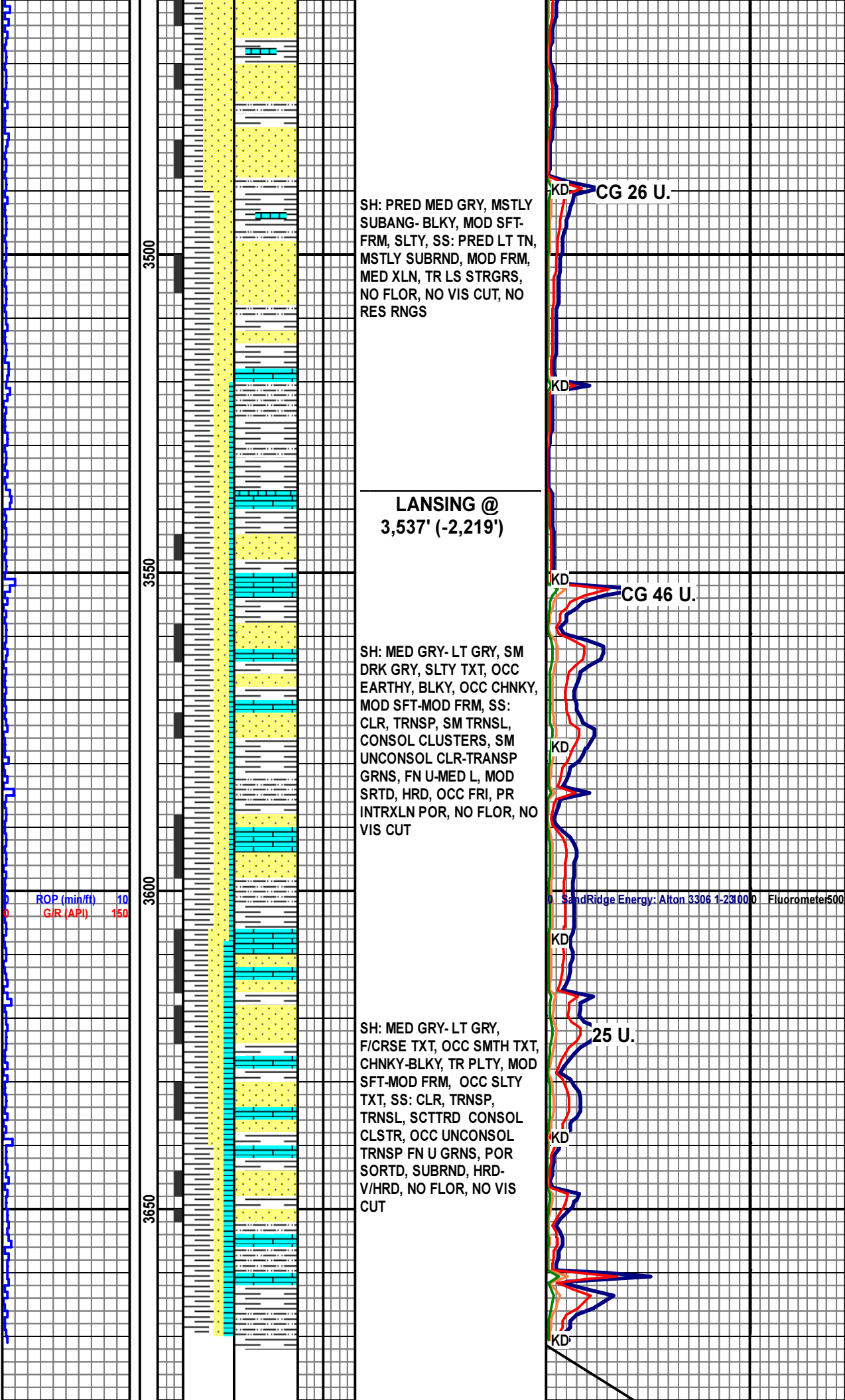
SH: PRED LT- MED GRY, TR DRK GRY, MSTLY SUBANG-BLKY, MOD SFT- SLI FRM, OCC SLTY THRU OUT, SS: PRED LT TN, MSTLY SUBRND- RND, OCC BLKY, MED- SLI FRM, OCC SLI HRD, MED TXT, MED XLN, TR LS STRGRS, NO FLOR, NO VIS CUT, NO RES RNGS

SH: MED GRY- GRY, SLI CRSE TXT, SUCC TXT, BLKY, OCC CHNKY, MOD SFT-MOD FRM, SS: CLR, TRNSP, SM TRNSL, V/CONSOL CLUSTERS, OCC UNCONSOL CLR-TRANSP GRNS, FN U-MED L, MOD SRTD, HRD, OCC FRI, PR INTRXLN POR, NO FLOR, NO VIS CUT

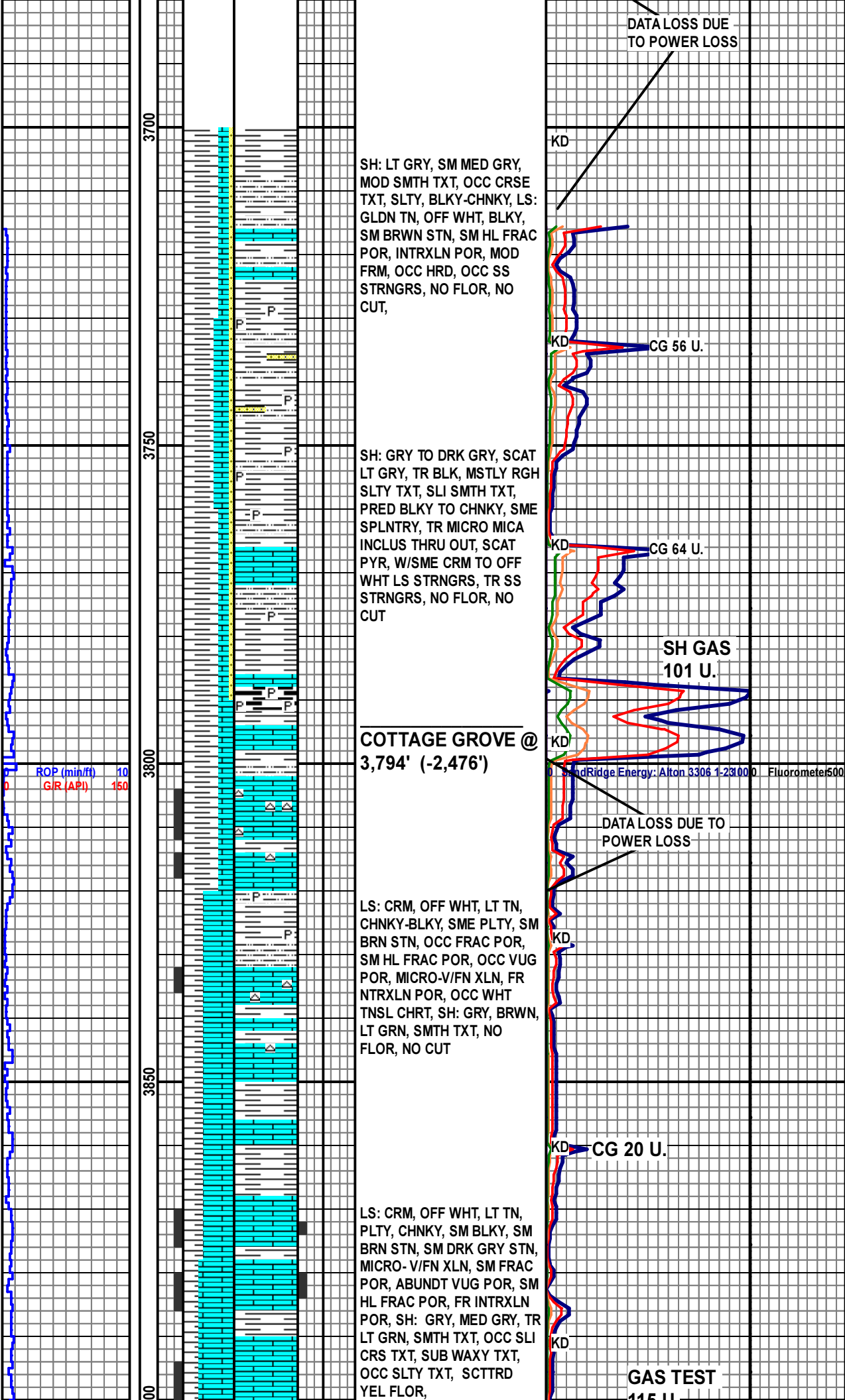
SandRidge Energy: Alton 3306 1-231000 Fluorometer500

WT: 8.6
VIS: 38

WOB: 16.4K
RPM: 71
PP: 1328
GPM: 372



WOB: 17.5K
RPM: 79
PP: 1389
GPM: 403



WOB: 18.1K
RPM: 87

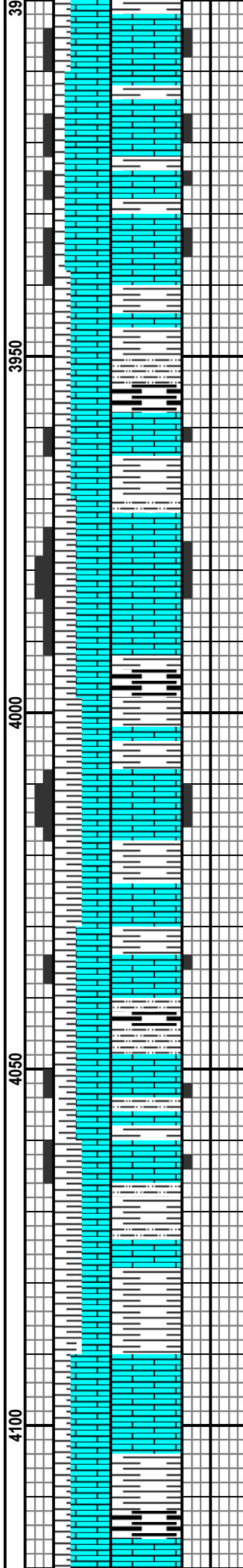
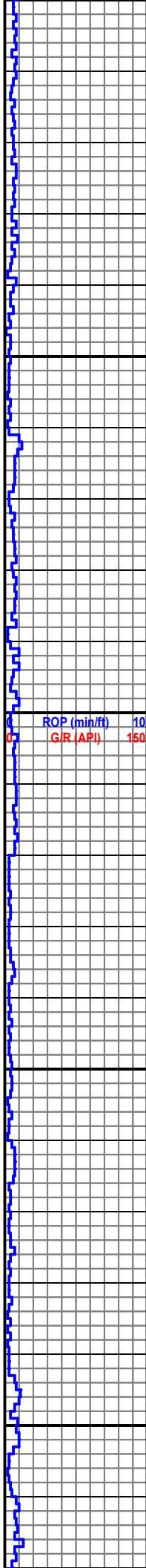
PP: 1695
GPM: 461

DEVIATION
SURVEY@
4,000' 0.6°

WT: 9.1
VIS: 35

07/25/13

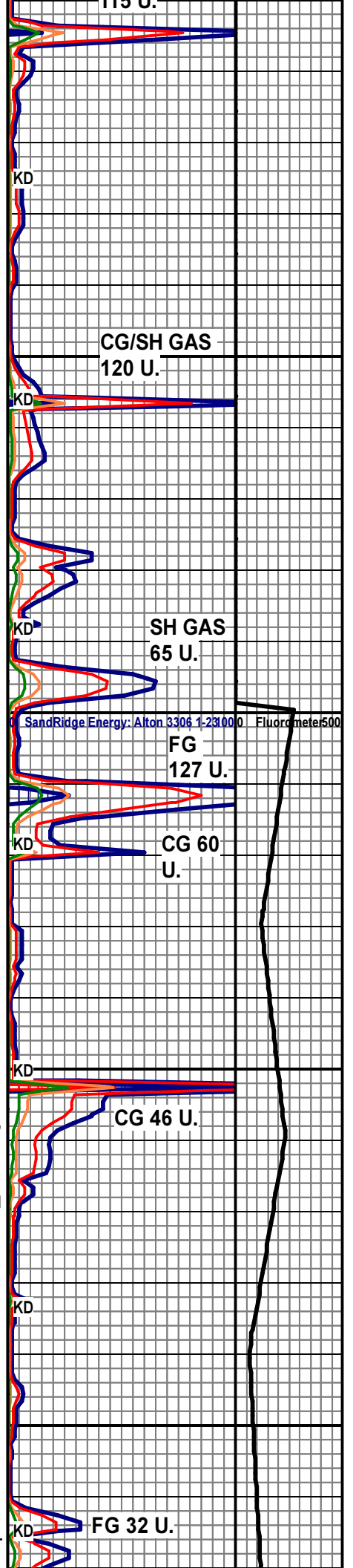
WOB: 17K
RPM: 83
PP: 1461
GPM: 448



LS: CRM, TN, SM LT BRN
STN, SM GRY STN, CHNKY,
SM PLTY, MICRO-V/FN XLN,
SM HL FRAC POR, SM FRAC
POR, OCC VUG POR, SH:
DRK GRY, GRY, OCC LT GRY,
OCC LT GRN, CRSE FN TXT,
SLTY, SLTST: CLR, TNSP,
TRNSL, LT LN, V/F L
UNCONSOL GRNS

LS: LT BRN, BRN, DRK TN,
SM DRK BRN STN, SM LT
GRY STN, CHNKY, SM BLKY,
MICRO- V/FN XLN, SM FRAC
POR, SM HL FRAC POR, SM
VUG POR, HTSH: BLCK, SLI
CRSE TXT, EARTHY TXT,
CHNKY, SH: MED GRY, GRY,
SLTY TX, FLUOROMETER
READING: FAIR-EXCELLENT

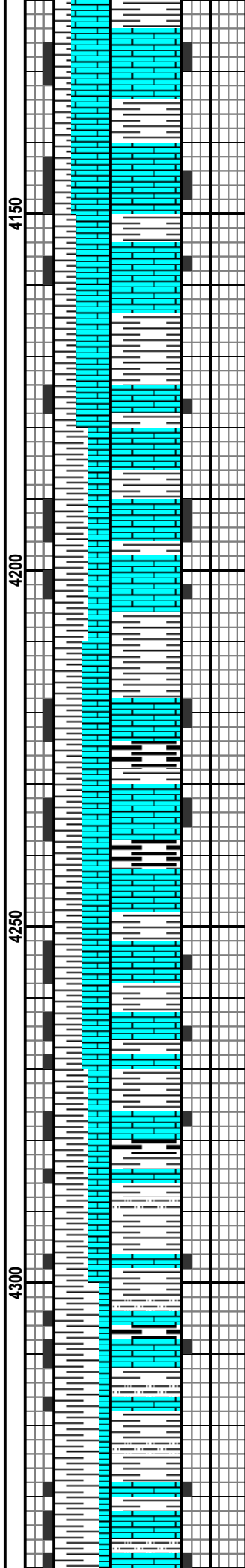
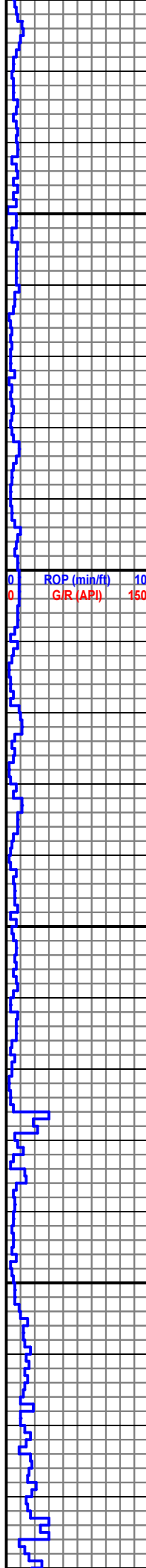
LS: LT BRN, CRM, DRK TN,
OCC BRN STN, FN CUTTNGS,
CHNKY, PLTY, OCC BLKY,
MICRO-V/FN XLN, SM FRAC
POR, SM HL FRAC, SM VUG
POR, SH: MED GRY, GRY, SM
LT GRN, SMTH TXT, PLTY,
SCTTRD DULL YEL FLOR,
NO VIS CUT, NO RES RING,
FLUOROMETER READING:
FAIR-EXCELLENT



OSWEGO LIME @

WT: 9
VIS: 36

WOB: 17.5K
RPM: 75
PP: 1411
GPM: 460



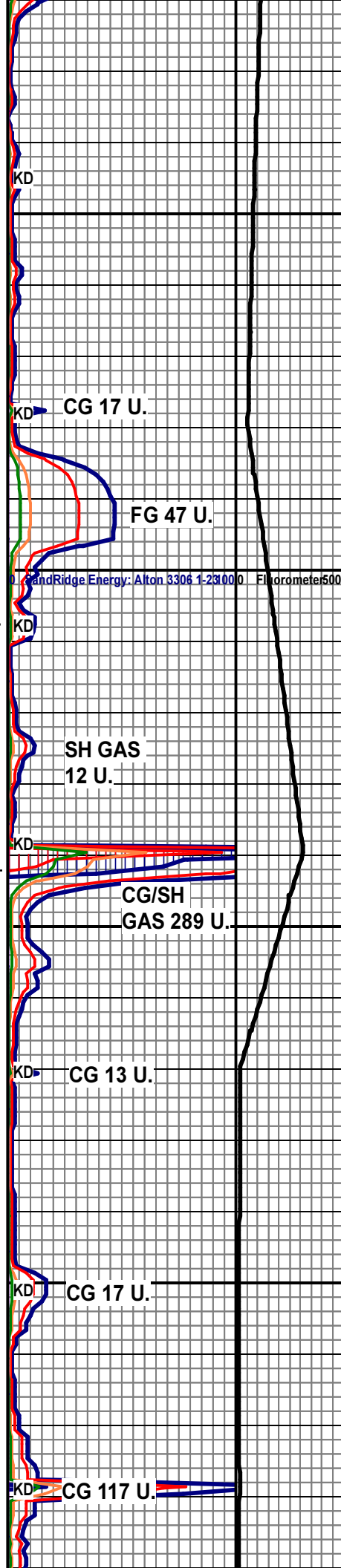
4,114' (-2,796')

LS: LT TN, LT BRN, CRM, SM GRY STN, SM DRK BRN STN, MOD FRM, CHNKY- PLTY, FRAC POR, SM HL FRAC POR, VUG POR, MICRO-V/FN XLN, ABNDT PALE YEL FLOR, NO VIS CUT, FLUOROMETER READING: FAINT- GOOD

LS: TN, DRK TN, LT BRN, CRM, SM GRY STN, SM DRK BRN STN, MOD FRM, CHNKY- PLTY, SME FRAC POR, SM HL FRAC POR, VUG POR, MICRO-V/FN XLN, ABNDT PALE YEL FLOR, NO VIS CUT, FLUOROMETER READING: GOOD- EXCELLENT

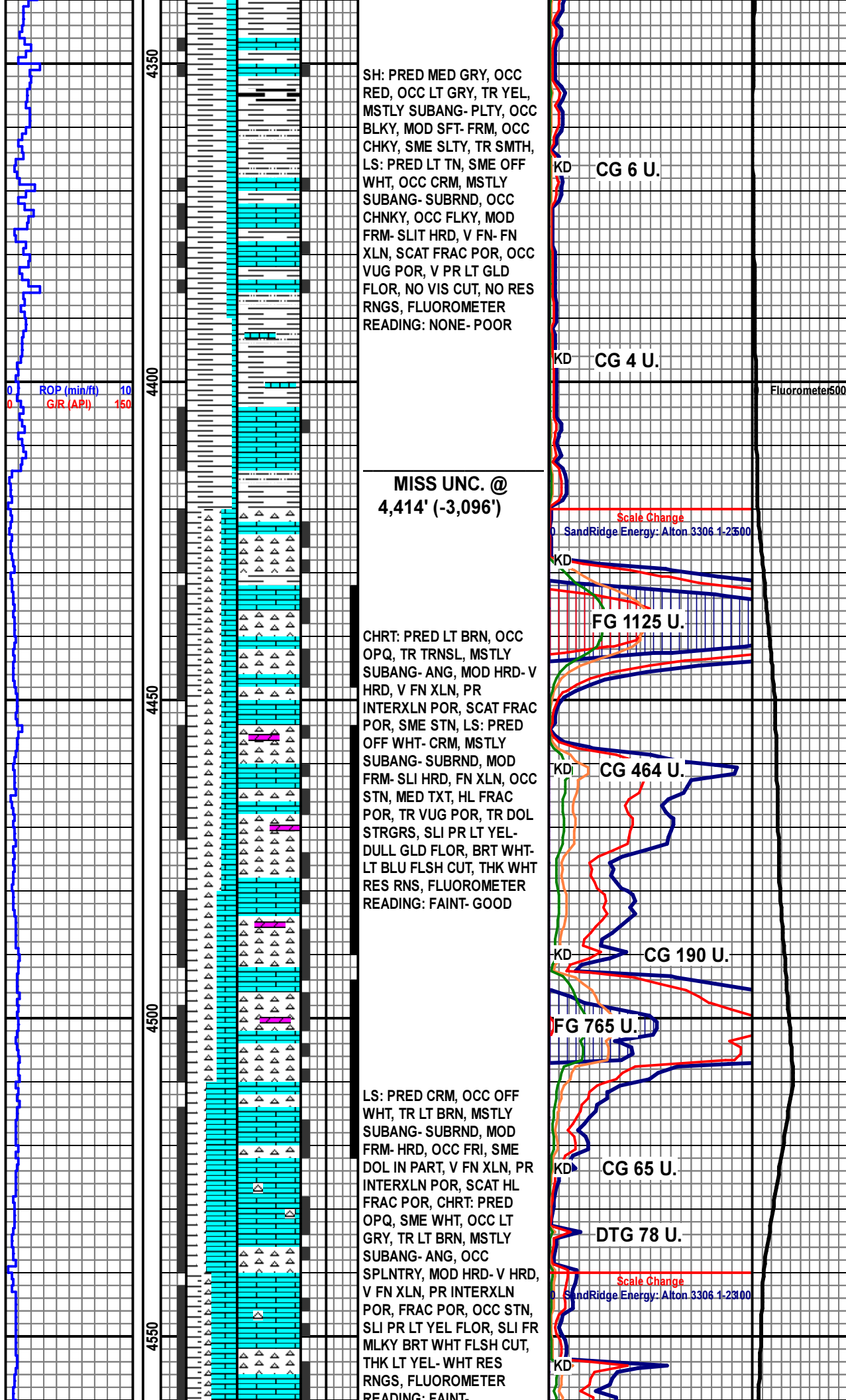
CHEROKEE @
4,242' (-2,924')

SH: PRED LT- MED GRY, OCC DRK GRY, MSTLY BLKY, OCC CHNKY, MOD SFT- FRM, OCC CHKY, SCAT SLTY, LS: PRED OFF WHT- LT TN, MSTLY SUBANG- SUBRND, OCC BLKY, MOD FRM- SLI HRD, OCC FRI, MED TXT, FN XLN, PR INTERXLN POR, OCC HL FRAC POR, TR VUG POR, V PR LT YEL FLOR, NO VIS CUT, NO RES RNGS, FLUOROMETER READING: NONE- POOR



WOB: 15.4K
RPM: 73
PP: 952
GPM: 280

DEVIATION
SURVEY@
4,503' 0.7°

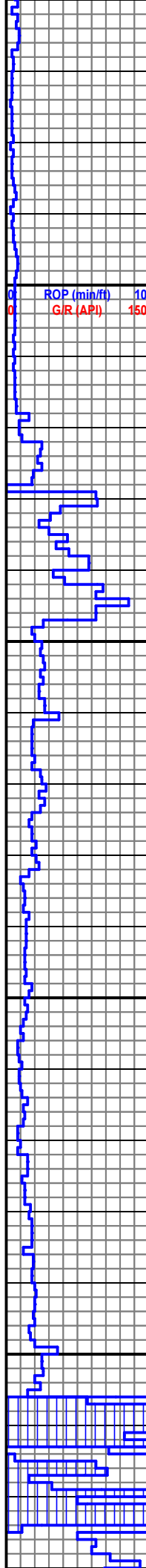


07/26/13

WT: 8.8
VIS: 33
LCM: 28

WOB: 13K
RPM: 79
PP: 630
GPM: 240

WT: 8.8
VIS: 39
LCM: 28



4600
4650
4700
4750



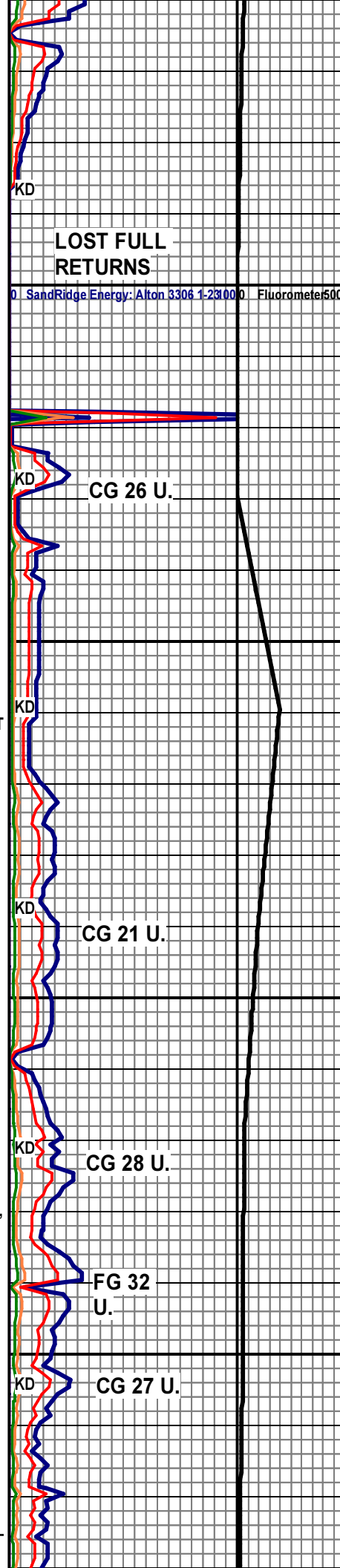
NO SAMPLE
CAUGHT DUE TO
LOSS OF RETURNS

CIRCULATION LOST
FOR OVER 24
HOURS

CHRT: WHT, LT BRN STN, TN,
BRWN TN, GRY STNNG,
TRIPP, V/HRD, PLTY, CHNKY,
LS: TN, CRM, LT GRY STN, LT
BRN STN, CHNKY- PLTY,
MOD FRM- FRM, OCC BR TTL,
MED FN TXT, FR INTRXLN
POR, FRAC POR, SM HL
FRAC POR, OCC VUG POR,
SM V/LT GRY SH, SME LT
GRN SH, SM MED GRY SH,
TR DULL YEL FLOR, NO VIS
CUT, FLUOROMETER
READING:

CHRT: OFF WHT, WHT, LT
BRN STN, TN, BRWN TN,
GRY STN, TRPL, HRD-
V/HRD, PLTY, CHNKY, LS: TN,
CRM, LT GRY STN, LT BRN
STN, CHNKY- PLTY, MOD
FRM- FRM, OCC BR TTL, MED
FN TXT, FR INTRXLN POR,
FRAC POR, SM HL FRAC
POR, OCC VUG POR, SM
V/LT GRY SH, SME LT GRN
SH, SM MED GRY SH, SM
YEL FLOR, NO VIS CUT,
FLUOROMETER READING:
NONE- POOR

KINDERHOOK @



KD

LOST FULL
RETURNS

SandRidge Energy: Alton 3306 1-231000 Fluorometer500

KD

CG 26 U.

KD

KD

CG 21 U.

KD

CG 28 U.

FG 32
U.

KD

CG 27 U.

WOB: 18.3K
RPM: 92
PP: 882
GPM: 267

