

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: JEFFERSON 3306 1-27H
Location: SECTION 27, T33S, R6W, HARPER COUNTY, KANSAS
License Number: 1507721938
Spud Date: 6/21/2013
Surface Coordinates: 200' FSL & 1,245' FEL of Section 27, T33S, R6W
Region:
Drilling Completed: 7/6/2013

Bottom Hole Coordinates: 330'FNL & 1,320' FEL of Section 27, T33S, R6W

Ground Elevation (ft): 1,288
Logged Interval (ft): 3050 To: 8865
Formation: MISSISSIPPI
Type of Drilling Fluid: WATER/GEL
K.B. Elevation (ft): 1,306
Total Depth (ft): 5815

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

Logged By: Kris Carroll / Becky Mulkey




























ROCK TYPES

 Sndylm  Anhy  Bent  Brec  Cht  Clyst	 Coal  Leach  Congl  Dol  Gyp  Igne	 Lmst  Meta  Mrlst  Salt  Shale  Shcol	 Shgy  Ss  Till  Hotsh  Slstst
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ACCESSORIES

MINERAL  Anhy  Arggrn  Arg  Bent  Bit  Brecfrag  Calc  Carb  Chtdk  Chtlt  Dol  Feldspar  Ferrpel  Ferr  Glau  Gyp  Hvmin  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  Slststrg TEXTURE  Boundst  Chalky  Cryxln  Earthy  Finexln  Grainst  Lithogr  Microxln  Mudst  Packst  Wackest
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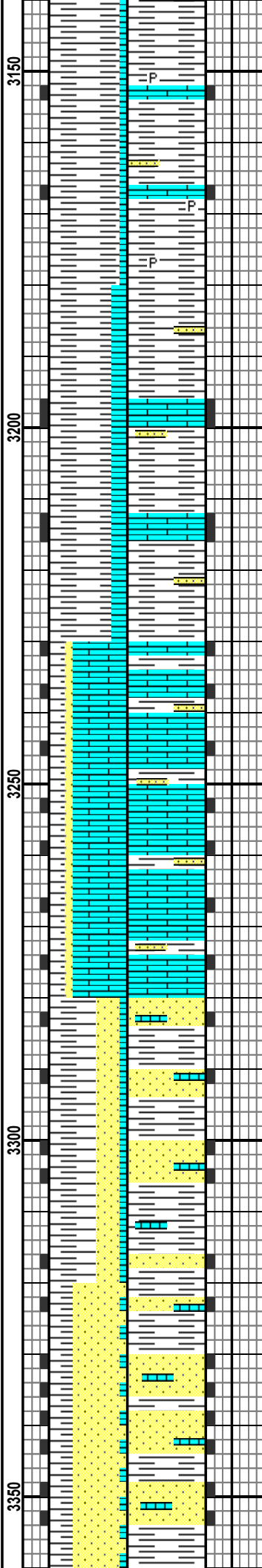
OTHER SYMBOLS

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
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Survey Data	ROP		Depth	Porosity	% Lithology	Lithology	Fluorescence	Leach	Geological Descriptions	TG, C1-C5			Oil Curve	Fluorometer	
	ROP (min/ft)	G/R (API)								TG (Units)	C1 (units)	C2 (units)			C3 (units)
9 5/8" CASING ON 6/23/2013	0	10	29						SANDRIDGE ENERGY JEFFERSON 3506 1-27H; 200' FNL & 1,245' FWL SEC 27; T33S R6W HARPER CO., KS GR 1,288' KB 1,306' SPUD DATE: 6/20/2013 DRILLING ON 6/24/2013 BIT# 2: 8 3/4" MAKE: VAREL TYPE: VTD616UR SER#: 40044459 JETS: 4-16s BHA: MOTOR @ 1,5; UBHO SUB; NMDC SLICK; FLEX MONEL; 6X8 CROSSOVER SUB; H.W.D.P	0	0.00	0.01	0.1	0.1	0.1
	0	150	3000							0	0.00	0.01	0.1	0.1	0.1
6/25/2013	GAMMA/ROP		3050						SH: MSTLY LT GRY, SME MED GRY, OCC DRK GRY, TR BRN, BLKY, CHNKY, OCC PLTY, SFT TO BRIT, MOD FN TO FN TXT, SME MED TX T, OCC SLTY, LS: MSTLY LT GRY, SME MOT GRY, MED TO FN XLN, TR SS, TR DULL GLD FLOR, NO CUT, NO RES RNGS,	GAS	KD	0.00	0.01	0.1	0.1
			3100												
									SH: MSTLY MED GY - DRK GY, SME BLK, SME BRNSH LT GY, ABUN PYRT INCL, FN - VFN, TR SLTY TXT, BLKY, PRED FISL, SME CHNKY, SFT TO SLT FRM, SME BRTL; LS: MSTLY MED GY, SME LT BRN, PRED CRPXLN, TR SNDY, BLKY, FRM, BRTL, TR SUC, SME HL FRAC POR; TR YEL FLUOR, NO CUT, NO RES RING						

WOB: 21.2
RPM: 58
SPM: 174
PSI: 2797

ROP (min/ft) 10
G/R (API) 150



**BASE HEEBNER @
3,170' MD (-1,822')**

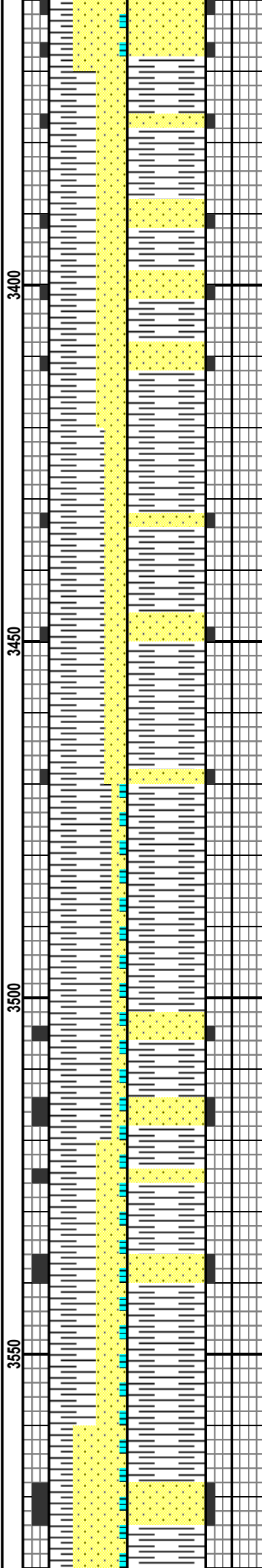
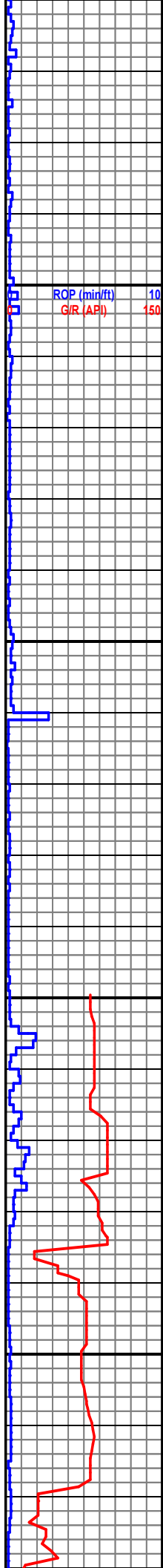
SH: MSTLY OFF WHT - LT GY, SCAT DRK GY, TR BLK, TR BRN, MOD - FN TXT, ABUN MICA, MSTLY CHNKY, MOD FRM, VRY BRTL; LS: PRED OFF WHT, MSTLY VFN, PRED BLKY, TR PLTY, FRM, BRTL, SME HL FRAC POR; SCAT GRNSH YEL FLUOR,

LS: PRED OFF WHT - MED CRM, SME LT TAN, MSTLY CRPXLN, BLKY, FRM - VRY FRM, SME BRTL, SME HL FRAC POR; SS: MSTLY LT GY, MSTLY SNDY - SLTY TXT, SME FN, TR VFN, TR CARB CLSTS, CHNKY, TR FISL, VRY BRTL; SS: OFF WHT - WHT, FRI, FR RND, MOD WL SRT; TR GRNSH YEL FLUOR, NO VIS CUT, NO RES RING

SS: MSTLY OFF WHT - LT GY, ABUN CARB CLSTS, MSTLY FN - VFN, WL SRT, WL RND, FRI, CLST S PRT; SH: MSTLY OFF WHT - LT GY, FN, CHNKY, TR FISL, MOD SFT - MOD FRM; SCAT WHT FLUOR, NO VIS



WOB: 41.3
RPM: 69
SPM: 118
PSI: 2117

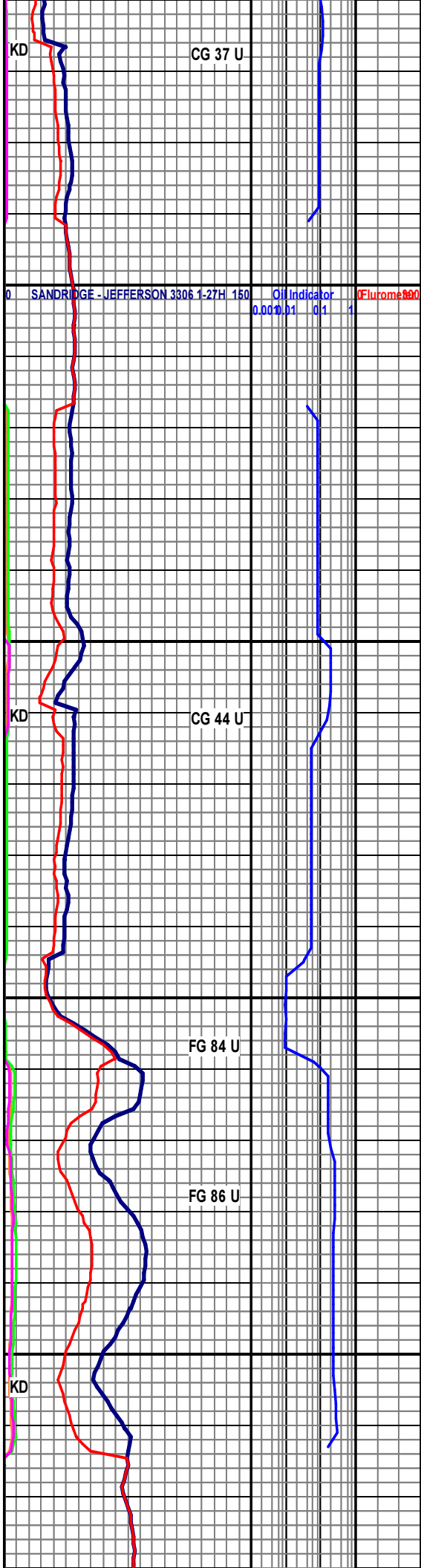


CUT, NO RES RING

SH: MSTLY LT - MED GY, FN - SLTY GRAN, MSTLY CHNKY, SME FISL, PRED MOD SFT - SLT FRM, VRY BRTL; SS: PRED OFF WHT, MOD FN GRAN, WL SRT, WL RND, FRI, VRY BRTL, CLST SPRT; TR GRNSH FLUOR, NO CUT, NO RES RING

LANSING @ 3,525' MD (-2,237')

SH: MSTLY LT - MED GY, MSTLY FN - SLTY TXT, PRED CHNKY, SME FISL, MOD SFT - FRM; SS: MSTLY TRNSL OFF WHT, SCAT OPQ, TR CARB. M GRAN, FR SRT, FR - WL



SANDRIDGE - JEFFERSON 3306 1-27H 150 Oil Indicator 0.00 0.01 0.1 Fluorine 800

WOB: 13.4
RPM: 65
SPM: 118
PSI: 1879

MD 3611 TVD 3610.89
INC 1.3 AZ 133
VS 5.35

MD 3643 TVD 3642.88
INC 1.4 AZ 132.6
VS 4.82

MD 3675 TVD 3674.87
INC 1.1 AZ 114.4
VS 4.42

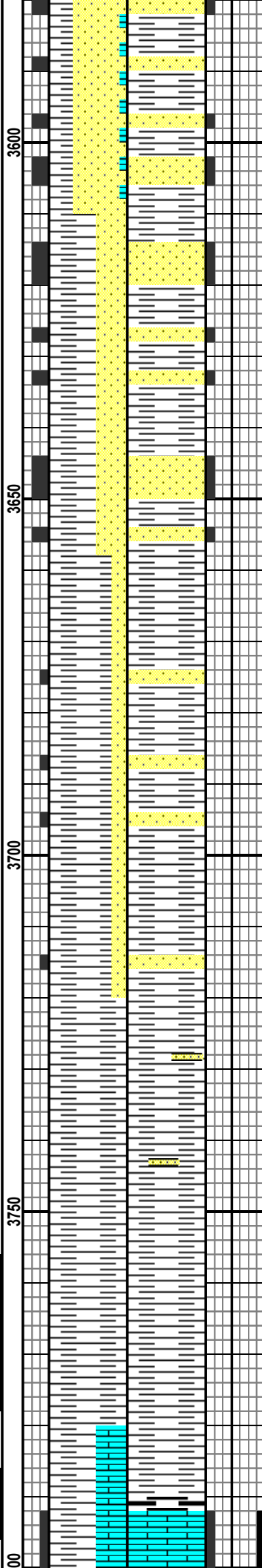
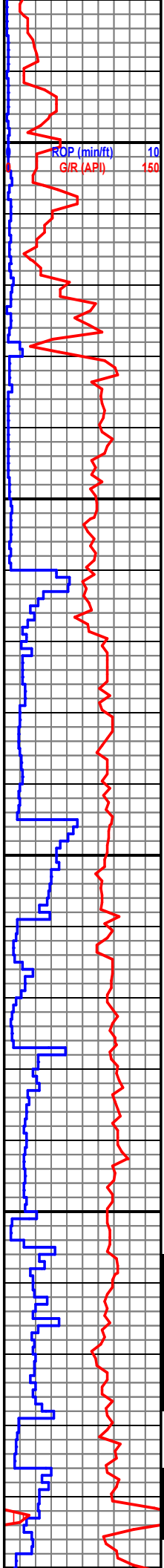
MD 3706 TVD 3705.86
INC 1.4 AZ 46.2
VS 4.54

3,735' ON
6/26/2013

MD 3738 TVD 3737.83
INC 3.5 AZ 16.5
VS 5.74

MD 3769 TVD 3768.73
INC 5.9 AZ 4.9
VS 8.22

WOB: 18.1
RPM: 0
SPM: 118
PSI: 1655



RND, FRI, CLST SPRT, VRY BRTL,
ABUN LSE SND; LS: TR MED TAN,
BLKY, FRM, BRTL, SME HL FRAC
POR; TR DUL YELSH FLUOR, NO
VIS CUT, NO RES RING

TOH @ 3,658' MD FOR
DIRECTIONAL TOOLS
(KOP)

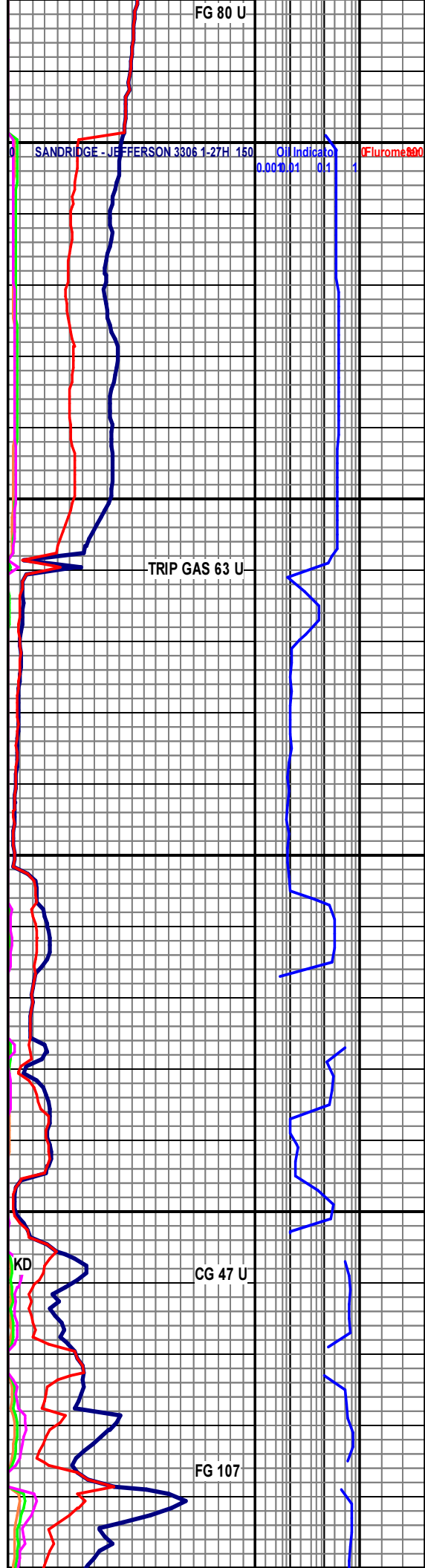
BIT# 3: 8 3/4"
MAKE: ULTERA
TYPE: U516M
SER#: 19777
JETS: 5-16s

BHA: MOTOR @ 2.12;
UBHO SUB; NMDC
SLICK; NMDC FLEX;
X.O.; 16 STNDS 4" PUSH
DP; H.W.D.P

MUD CK @ 3,658'
MW: 9.00
FV: 44
PV: 11
YP: 15
GEL: 7 / 15
API: 6.0
CAKE: 2 /
SOL: 5.3%
WAT: 94.7%
PH: 10.2
FA: 0.5 / 0.7
CHL: 240
HARD: 240

SH: PRED GY TO LT GY, SME BLK,
PRED SFT, SME SEMI FRM, PRED
PLTY, SME BLKY, ERTHY LSTR,
OCC LT TN TO LT BRN SS, NO VIS
FLOR, NO CUT, NO RES RNGS,

COTTAGE GROVE @
3,790' MD 3,790' TVD
(2.4841)



FG 80 U

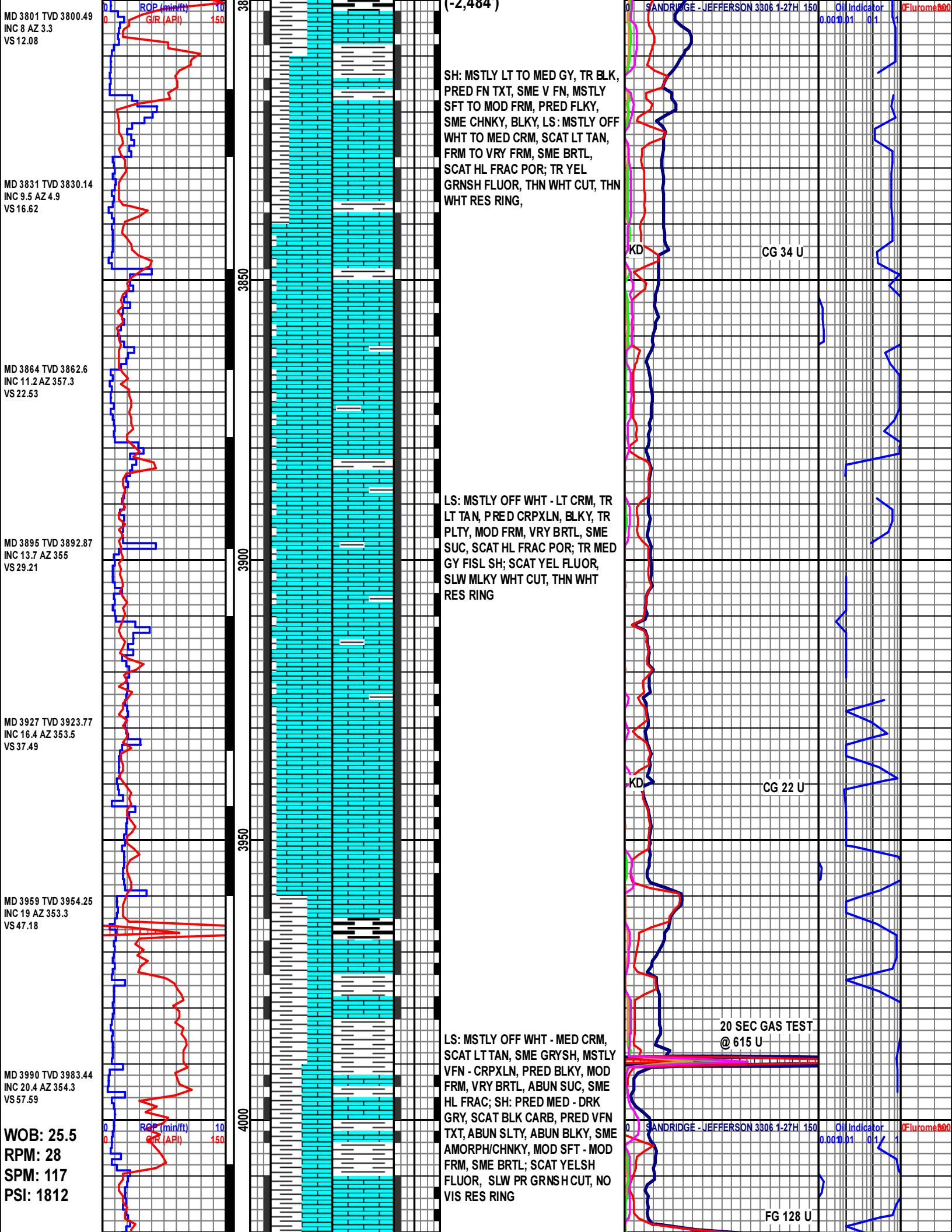
SANDRIDGE - JEFFERSON 3306 1-27H 150
Oil Indicator
0.00 0.01 0.1

Fluorine 800

TRIP GAS 63 U

CG 47 U

FG 107



MD 4022 TVD 4013.22
INC 22.5 AZ 353.4
VS 69.25

MD 4053 TVD 4041.61
INC 24.9 AZ 353.1
VS 81.65

MD 4086 TVD 4071.34
INC 26.5 AZ 353
VS 95.89

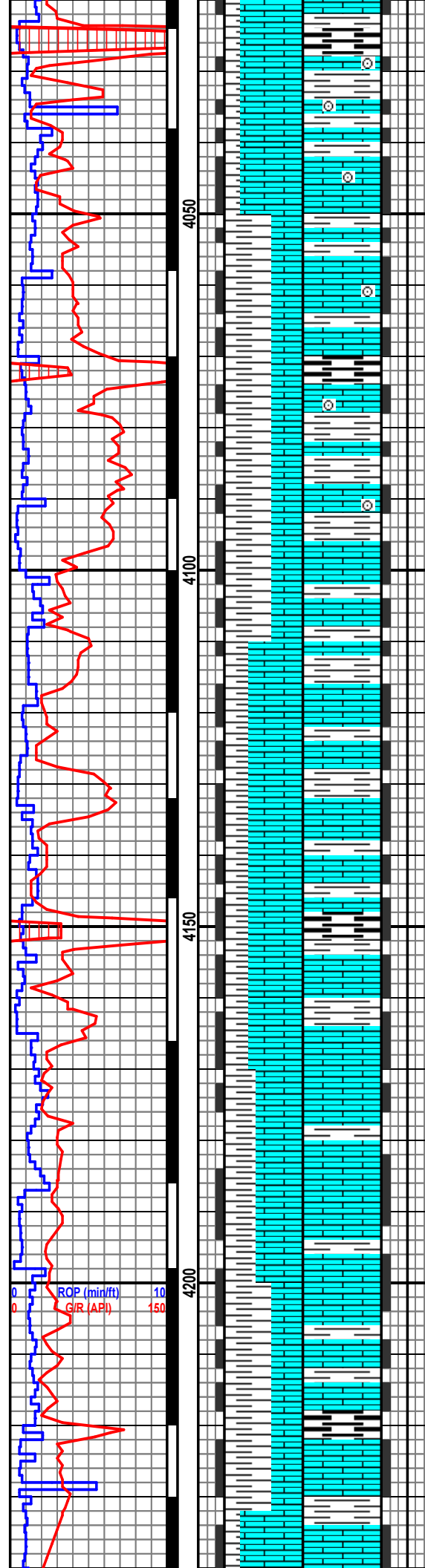
MD 4118 TVD 4099.7
INC 28.7 AZ 354
VS 110.66

MD 4150 TVD 4127.48
INC 30.8 AZ 354.4
VS 126.49

MD 4182 TVD 4154.57
INC 33.5 AZ 354.3
VS 143.44

WOB: 23.4
RPM: 0
SPM: 117
PSI: 1739

MD 4213 TVD 4179.99
INC 36.3 AZ 353.7
VS 161.11

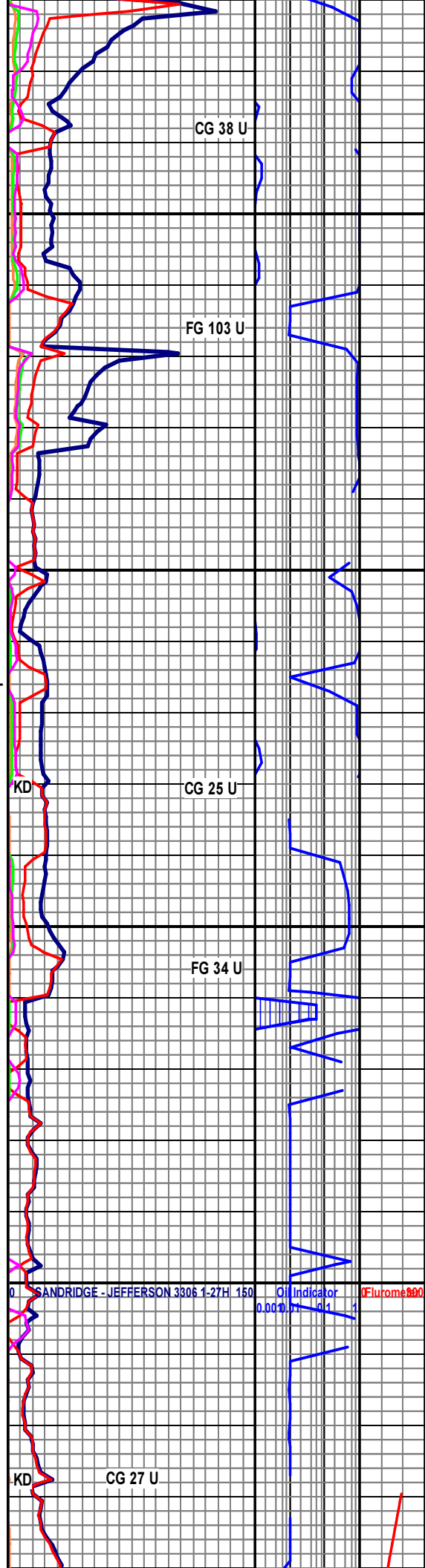


MUD CK @4,035'
MW: 8.90
FV: 50
PV: 14
YP: 16
GEL: 8 / 20
API: 5.8
CAKE: 2 /
SOL: 4.5%
WAT: 96.5%
PH: 10.8
FA: 0.6 / 1.6
CHL: 10000
HARD: 120

SH: MSTLY OFF WHT - LT GY, SME
MED GY, SCAT BLK CARB, MSTLY
FN - VFN TXT, SME SLTY, PRED
CHNKY, SME BLKY, SME FISL,
MSTLY MOD FRM - FRM, SME VRY
FRM & BRTL; LS: MSTLY OFF WHT -
LT CRM, SME GRY, SCAT LT CRM,
MSTLY CRPXLN, BLKY, MOD FRM -
FRM, BRTL, ABUN SUC, SCAT HL
FRAC POR, SME CRIN; SME BRT
GRNSH YEL FLUOR, SLW PR
GRNSH CUT, NO RES RING

OSWEGO @ 4,150'MD
4,127'TVD (-2,839')

LS: PRED OFF WHT TO LT GRY,
OCC CRM TO LT TN, FN XLN TO
MOD FN XLN, MSTLY PLTY TO
BLKY, MOD FRM TO FRM, SME SLI
FRM, PR INTRXLN POR, SME PP
VUG POR, SCAT HL FRAC, SH:
MSTLY DRK GRY TO BLK, CHNKY
TO BLKY, SME PLTY, MOD SFT,
OCC FRM, FN TXT TO MOD FN TXT,
OCC MED TXT, SCAT RGH, SME
PR FNT GLD FLOR, NO CUT, NO
RES RNGS,



SANDRIDGE - JEFFERSON 3306 1-27H 150
Oil Indicator 0.0000
Fluorine 800

MD 4245 TVD 4205.44
INC 38.3 AZ 353.4
VS 180.45

MD 4277 TVD 4230.17
INC 40.5 AZ 353.6
VS 200.68

MD 4308 TVD 4253.26
INC 43.2 AZ 353.6
VS 221.28

MD 4339 TVD 4275.27
INC 46.3 AZ 353.7
VS 243.02

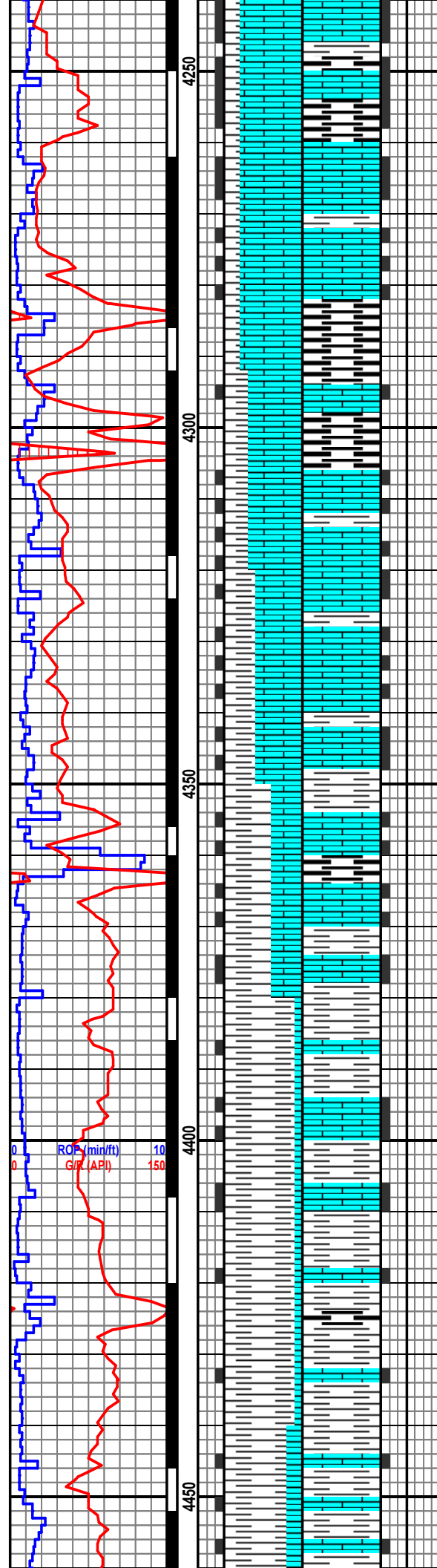
MD 4371 TVD 4296.85
INC 48.9 AZ 354.1
VS 266.57

WOB:19.1
RPM:0
SPM:118
PSI: 1783

MD 4402 TVD 4316.84
INC 50.8 AZ 353.8
VS 290.18

MD 4432 TVD 4335.39
INC 52.8 AZ 353.9
VS 313.67

6/27/2013 @
4,450'



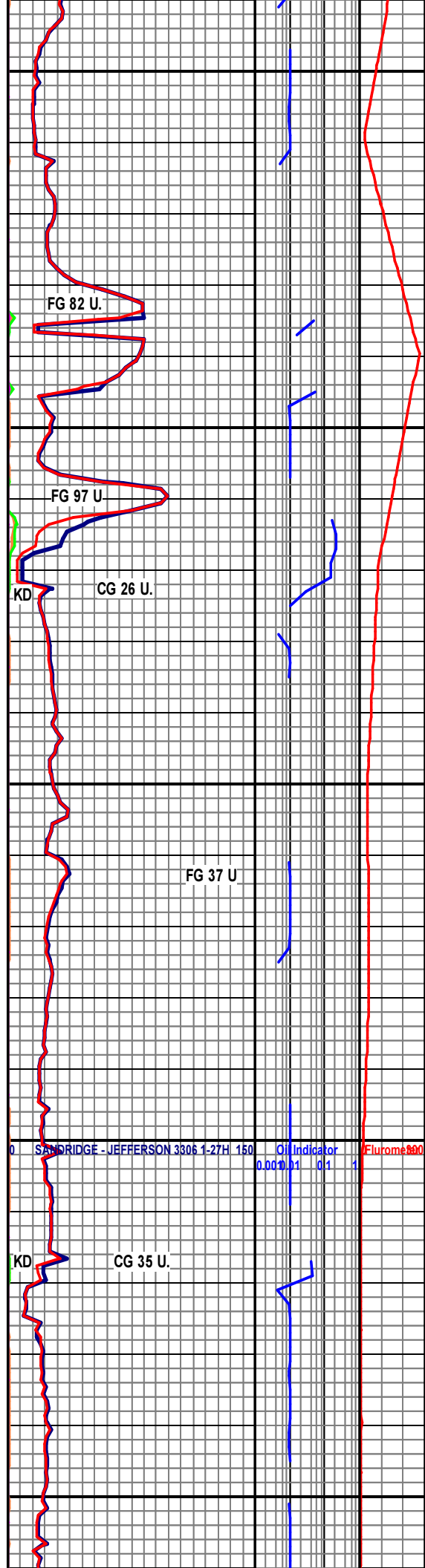
LS: MSTLY OFF WHT TO CRM, SME
LT TN, FN XLN TO MOD FN XLN,
MSTLY PLTY TO BLKY, MOD FRM
TO FRM, SME SLI FRM, PR
INTRXLN POR, SME PP VUG POR,
SCAT HL FRAC, SH: MSTLY DRK
GRY TO BLK, CHNKY TO BLKY,
SME PLTY, MOD SFT, OCC FRM, FN
TXT TO MOD FN TXT, OCC MED
TXT, SCAT RGH, SME PR FNT GLD
FLOR, NO CUT, NO RES RNGS,

**CHEROKEE @ 4,284' MD,
4,235' TVD (-2,931)**

LS: PRED TN TO LT TN, SME OFF
WH, SME CRM, FRM TO MOD FRM
THUROUT, FN XLN TO V FN XLN,
SH: PRED GY TO DK GY, SME BLK,
PRED MOD FRM, SME SFT, PRED
BLKY, PLTY, WK YEL FLOR, NO
CUT, NO RES RNGS,

**VERDIGRIS @ 4,360'MD
4,289' TVD (-3,001)**

SH: MSTLY MED GY, OCC DRK
GRY, PRED FN TXT, MSTLY FLKY,
CHNKY, PLTY, MSTLY MOD SFT,
SCAT FRM; LS: OFF WHT TO CRM,
SME LT TAN, PRED V FN XLN, SUB
ANG TO SUB RND, BLKY,
FLKY, FRM TO MOD FRM, SME HL
FRAC POR, SCAT YEL FLOR, NO
VIS CUT, NO VIS RES RING,



MD 4466 TVD 4355.23
INC 55.8 AZ 354.4
VS 341.19

MD 4498 TVD 4372.25
INC 59.9 AZ 354.5
VS 368.21

MD 4530 TVD 4387.54
INC 63 AZ 353.9
VS 396.23

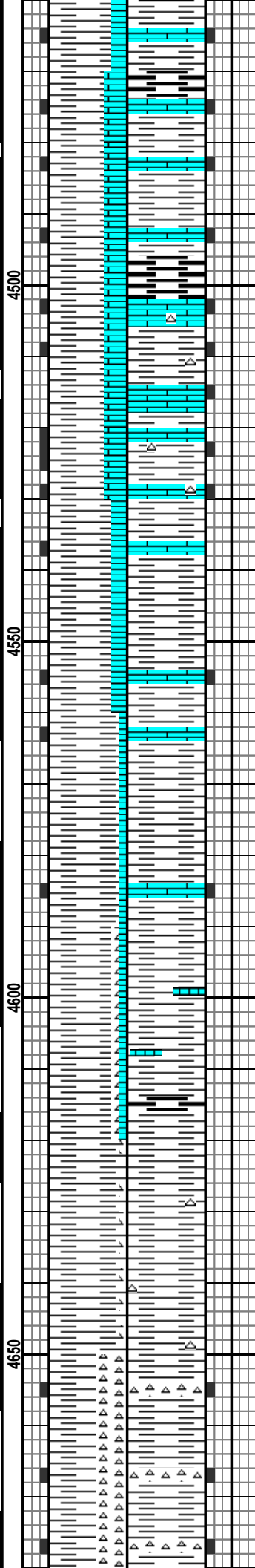
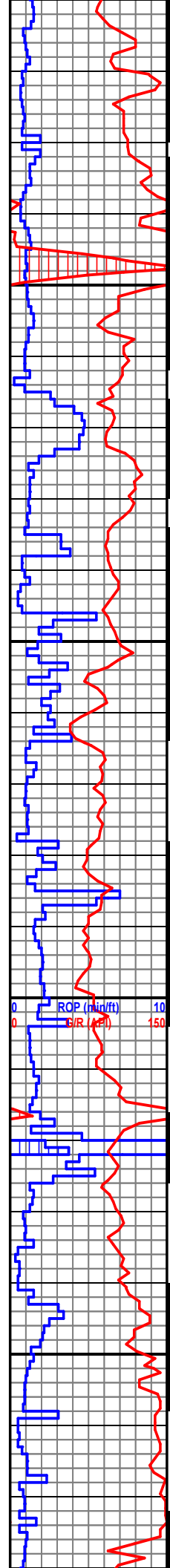
MD 4562 TVD 4401.39
INC 65.7 AZ 354
VS 424.97

MD 4593 TVD 4413.33
INC 69 AZ 353.9
VS 453.48

WOB: 42.5
RPM: 0
SPM: 120
PSI: 1726

MD 4625 TVD 4423.96
INC 72.2 AZ 353.7
VS 483.55

MD 4657 TVD 4433.1
INC 74.6 AZ 353.6
VS 514.1

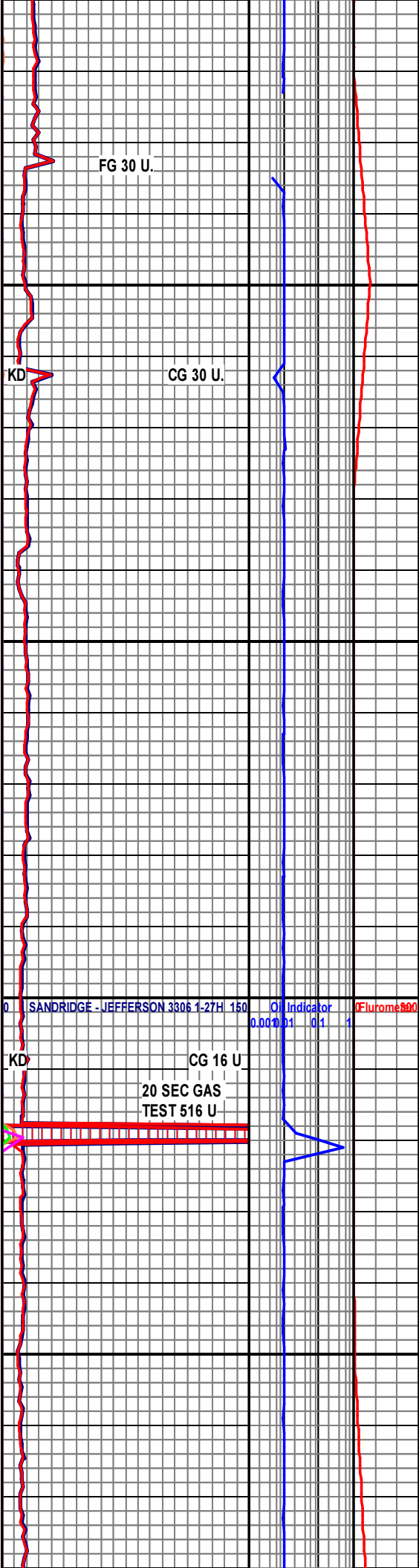


SH: PRED LT GRY TO MED GY,
OCC DRK GRY, PRED FN TXT,
MSTLY FLKY, CHNKY, PLTY, MSTLY
MOD SFT, SCAT FRM; LS: OFF WHT
TO CRM, SME LT TAN, PRED V FN
XLN, SUB ANG TO SUB RND, BLKY,
FLKY, FRM TO MOD FRM, SME HL
FRAC POR, SCAT YEL FLOR, NO
VIS CUT, NO VIS RES RING,

SH: PRED LT GRY, SME DRK GY,
SME BLK, SME YELSH, SCAT
GRNSH GRY, TR BRN, PRED FN
TXT, SME VFN, MSTLY FLKY/FISL,
ABUN CHNKY, SCAT BLKY, MOD
SFT - FRM, SME BRTL; LS: MSTLY
OFF WHT, SCAT LT CRM, PRED
CRPXLN, MSTLY BLKY, SME PLTY,
MOD FRM, BRTL, SME SUC, SCAT
HL FRAC POR; TR YELSH FLUOR,
NO CUT, NO RES RING

SH: MSTLY LT GY, SME OFF WHT,
SCAT YEL, TR RDSD BRN, TR
GRNSH, TR BLK, MSTLY VFN TXT,
PRED FISL, SME BLKY, TR CHNKY,
MSTLY MOD FRM, SME BRTL;
CHRT: TR - 5%, CLR, BLKY, HRD -
VRY HRD, ABUN CNCH FRAC; NO
VIS FLUOR, NO CUT, NO RES RING

MUD CK @4,650'
MW: 9.00
FV: 55
PV: 15
YP: 18
GEL: 8 / 20
API: 5.4
CAKE: 2 /
SOL: 5.3%
WAT: 94.7%
PH: 11.3



FG 30 U.

CG 30 U.

KD

KD

CG 16 U.

20 SEC GAS
TEST 516 U

SANDRIDGE - JEFFERSON 3306 1-27H 150
Oil Indicator 0.00 0.01 0.1
Fluorine 800

MD 4688 TVD 4440.73
INC 76.9 AZ 354.1
VS 544.04

MD 4720 TVD 4447.22
INC 79.7 AZ 354.5
VS 575.28

MD 4752 TVD 4452.36
INC 81.8 AZ 354.4
VS 606.77

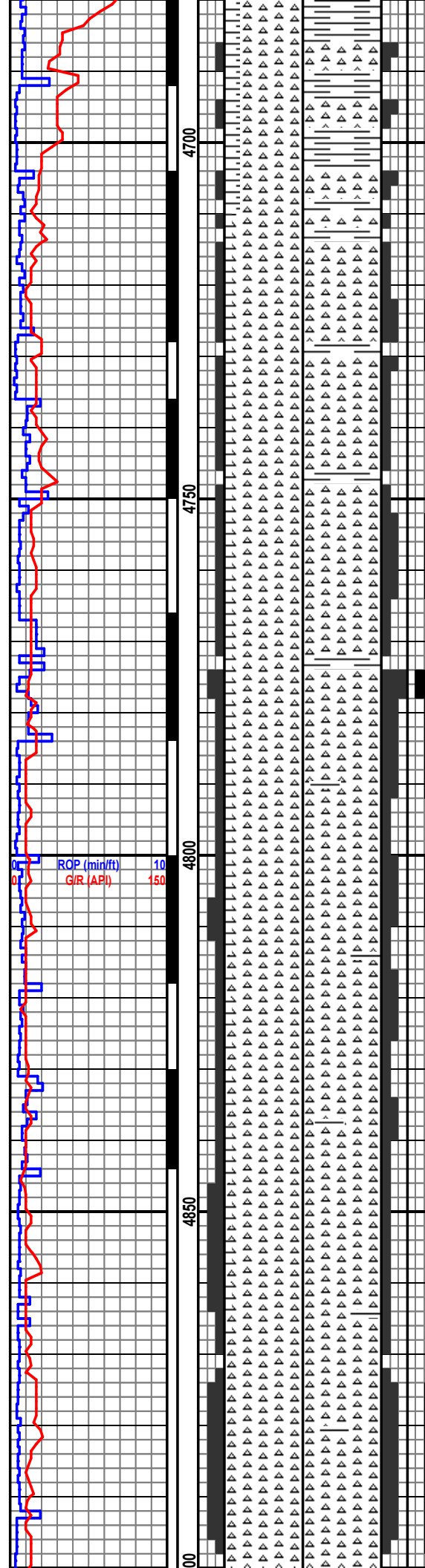
MD 4784 TVD 4456.44
INC 83.8 AZ 354.1
VS 638.37

WOB: 24.3
RPM: 29
SPM: 118
PSI: 1679

MD 4815 TVD 4459.12
INC 86.3 AZ 354
VS 669.15

MD 4847 TVD 4460.57
INC 88.5 AZ 354.4
VS 701.02

MD 4878 TVD 4461.27
INC 88.9 AZ 354.1
VS 731.92

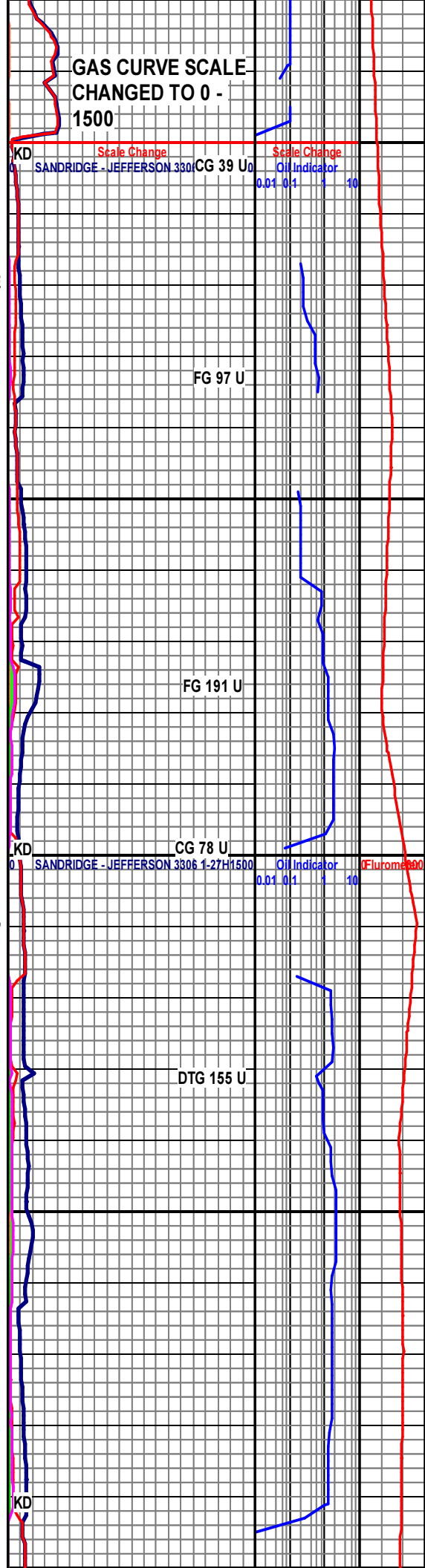


FA: 0.85 / 1.6
CHL: 6400
HARD: 80

**MISSISSIPPI @ 4,700'MD
4,443'TVD (-3,155)**

CHRT: SME OPQ WHT, ABUN
TRNSL MLKY WHT, SCAT CLR, SME
ASPH, PRED MASS XLN, TR TRIP,
MSTLY BLKY, SME P LTY, HRD -
VRY HRD, SME BRTL; SH: MSTLY
LT GY, SME YEL, TR RDSH BRN,
MSTLY FN TXT, FISL, SME BLKY,
TR CHNKY, PRED FRM; SME BRT
YEL FLUOR, SLW GRNSH MLKY
CUT, THN WHT RING

CHRT: PRED OPQ OFF WHT - WHT,
SME TRNSL MLKY WHT, SCAT CLR,
ABUN ASPH, TR LT TAN STNG,
PRED MASS XLN, BLKY, SCAT
PLTY, HRD - VRY HRD, SME CNCH
FRAC, SME PITT, TR BRTL; SH:
PRED LT GY, TR YEL, FN - VFN,
PRED FISL, MOD SFT; ABUN YEL
FLUOR, FST GRN CUT, FR BRT
CHLKY GRN RES RING



MD 4910 TVD 4461.8
INC 89.2 AZ 354.1
VS 763.82

MD 4942 TVD 4462.19
INC 89.4 AZ 354
VS 795.71

MD 4974 TVD 4462.53
INC 89.4 AZ 354
VS 827.6

6/28/2013@
4,992'

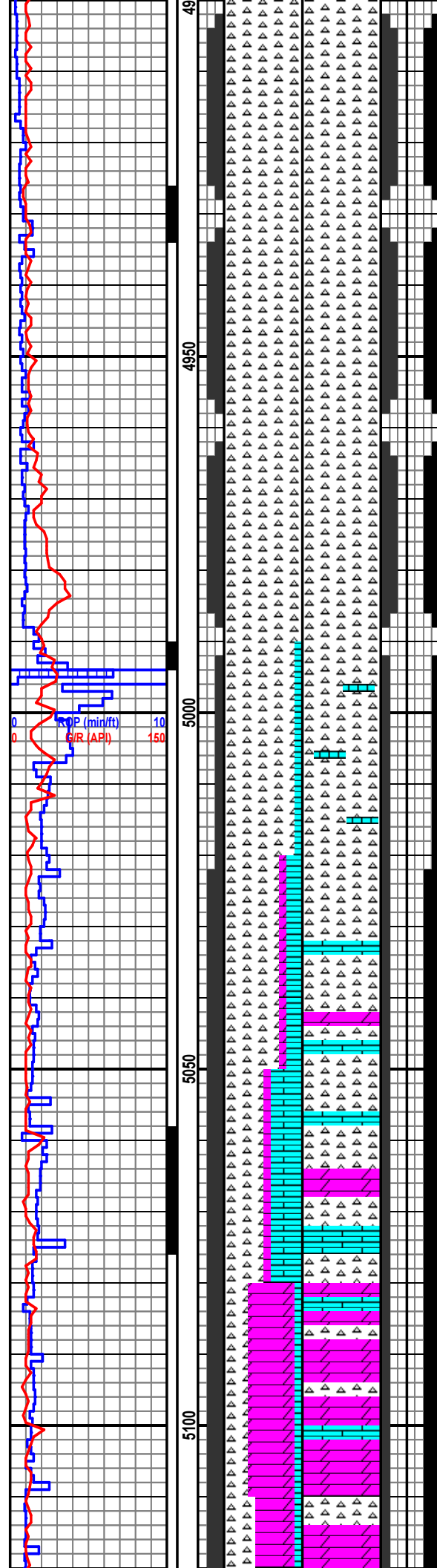
MD 5005 TVD 4462.69
INC 90 AZ 353.7
VS 858.49

WOB:11
RPM:28
SPM:80
PSI: 2558

MD 5037 TVD 4462.5
INC 90.7 AZ 353.4
VS 890.36

MD 5069 TVD 4462.19
INC 90.4 AZ 355.2
VS 922.26

MD 5100 TVD 4462.3
INC 89.2 AZ 357.8
VS 953.24



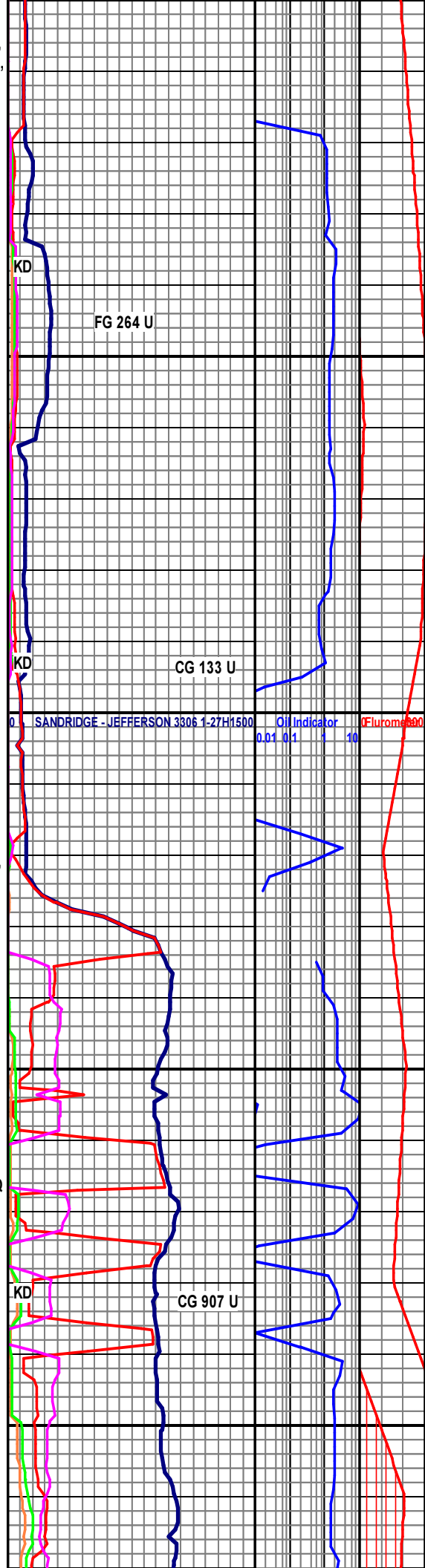
CHRT: MSTLY OFF WHT TO WHT,
SME TRNSL MLKY WHT, SCAT CLR,
TR LT TAN STNG, PRED MASS XLN,
BLKY, SCAT PLTY, HRD - VRY HRD,
SME CNCH FRAC, SME PITT, TR
BRTL; ABUN YEL FLR, BRT YEL
GRN CUT, YEL GRN RESD RNG,

STUCK PIPE @ 4,994
40BBL LUBE-DIESEL
ADDED TO WORK PIPE

CHT: PRED WHT TO OFF WHT, OCC
CRM TO LT TAN, TR DRK GRY TO
BLK, TR CLR, MSTLY FN XLN TO V
FN XLN, BLKY, FLKY, OCC PLTY, V
HRD TO HRD, OCC MOD FRM TR
BRTL, TR LS: OFF WHT TO LT CRM,
SME LT TAN, VFN XLN TO FN XLN,
FLKY, BLKY, MOD FRM TO FRM,
YEL GRN FLOR, FR - GD GRNSH
CUT, THK SPTY GRNSH RES RING

DOL: MSTLY MED CRM - LT TAN,
ABUN ASPH, ABUN TAN STNG,
MSTLY FN TXT, SUC, CHNKY, MOD
FRM, VRY BRTL, ABUN PP POR,
ABUN XLN POR; CHRT: MSTLY OPQ
OFF WHT - LT CRM, SME TRNSL
CLR - MLKY WHT, MSTLY MAS XLN,
ABUN ASPH, BLKY, SME PLTY,
MSTLY SUB ANG, HRD - VRY HRD,
SME BRTL; LS: MSTLY OFF WHT,
PRED CRPXLN, MSTLY PLTY, SUB
ANG - SUB RND, FRM, BRTL, SME
SUC, SCAT HL FRAC POR; SCAT
BRT GRN FLUOR, FST GRNSH BLE
CUT, THK GRNSH RES RING,
STRNG BTMN ODOR, SCAT FREE
OIL

MUD CK @5,143'



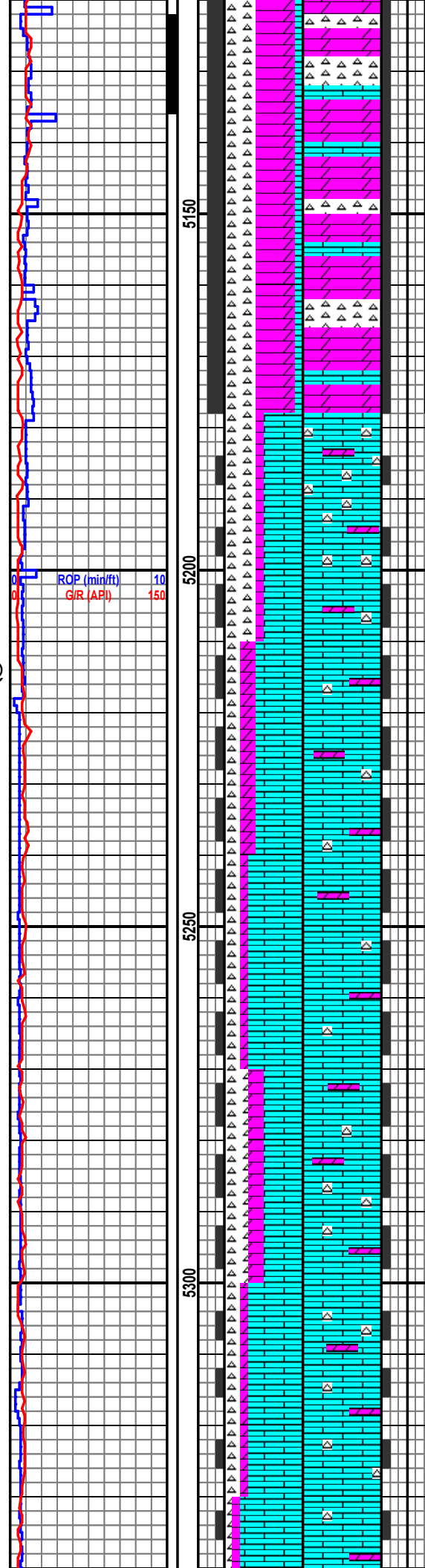
MD 5130 TVD 4462.98
INC 88.2 AZ 0.5
VS 983.23

MD 5180 TVD 4464.55
INC 88.2 AZ 1.3
VS 1033.16

WOB: 16.3
RPM: 29
SPM: 95
PSI: 1472

7" CASING @
5,177' ON
6/29/2013-
6/30/2013

MD 5272 TVD 4466.72
INC 89.1 AZ 1.5
VS 1125.03



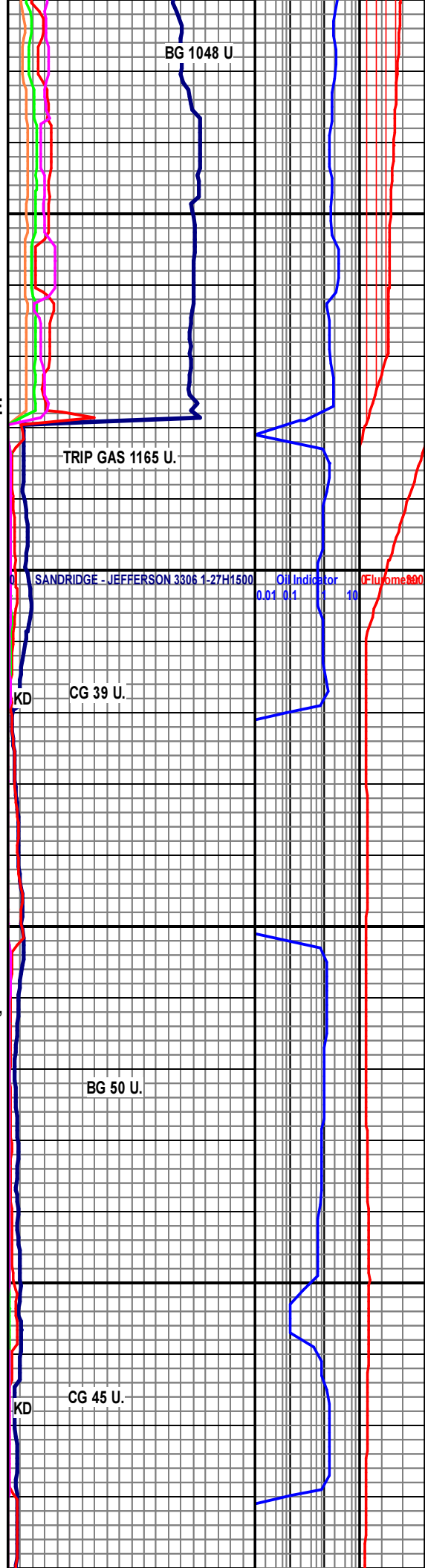
MW: 9.10
FV: 55
PV: 20
YP: 22
GEL: 7 / 16
API: 4.6
CAKE: 2 /
SOL: 6.0%
WAT: 91%
OIL: 3%
PH: 11.2
FA: 0.85 / 1.7
CHL: 7200
HARD: 80

TOH FOR INTERMEDIATE
CASING ON 6/28/2013

BIT# 4: 6 1/8"
MAKE: STC
TYPE: MDSI613
SER#: JG9404
JETS: 6/15

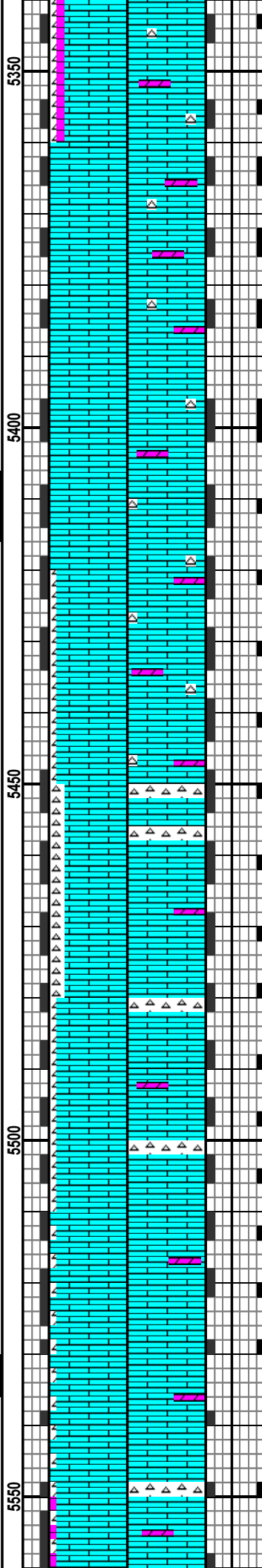
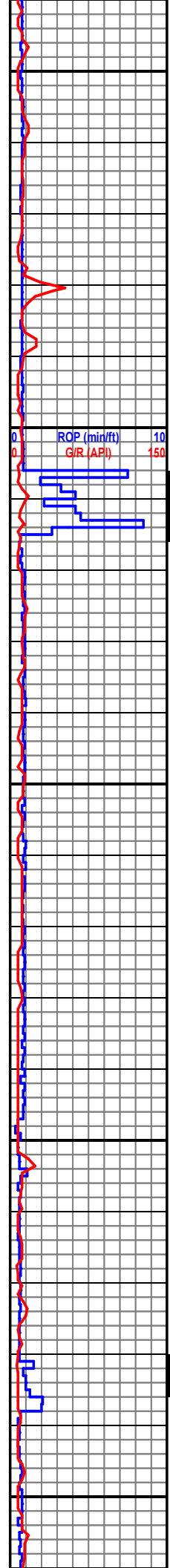
BHA: MOTOR @ 1.5;
UBHO SUB; NMDC
SLICK; NMDC FLEX; X.O.
; 162 JTS 4" PUSH PIPE;
H.W.D.P

LS: MSTLY WHT, OCC OFF WHT TO
CRM, V FN XLN TO MIRCO FN XLN,
MSTLY BLKY, OCC CHNKY, SUB
ANG TO SUB RND, FRM, OCC
BRTL, PP HL FRAC POR; CHRT:
SME BLK TO DRK GRY, OCC OPQ
TO OFF WHT, TR TRNSL, BLKY,
SME PLTY, MSTLY SUBANG, HRD
TO VRY HRD, TR BRTL; DOL: WHT
TO OFF WHT, OCC LT TAN, V FN
TXT, CHNKY, MOD FRM, OCC PP
FRAC POR, PP YEL GRN FLOR, V
WK YEL WHT CUT, V THNK YEL
RESD RNG,



MD 5364 TVD 4467.44
INC 90 AZ 0.8
VS 1216.94

WOB: 15.9
RPM: 64
SPM: 93
PSI: 1435

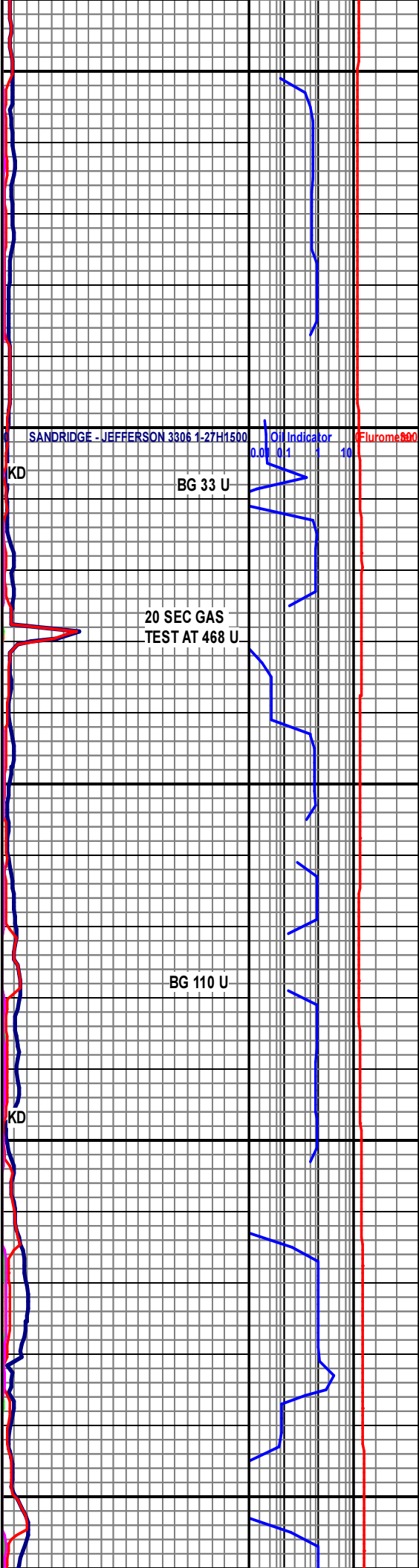


LS: PRED WHT TO OFF WHT, SME
LT GRY TO GRY, V FN XLN TO
MIRCO FN XLN, MSTLY BLKY, OCC
CHNKY, SUB ANG TO SUB RND,
FRM, OCC BRTL, PP HL FRAC
POR; DOL: OFF WHT TO LT GRY,
OCC LT TAN TO DRTY CRM, V FN
TXT, CHNKY, MOD FRM, OCC PP
FRAC POR; TR CHRT: SME BLK TO
DRK GRY, SME OPQ TO OFF WHT,
TR TRNSL, BLKY, SME PLTY,
MSTLY SUB ANG, HRD TO VRY
HRD, TR BRTL; TR PR GRNSH
FLUOR, SLW MLKY GRNSH CUT,
THN YEL RES RING

LS: WHT - OFF WHT, TR LT CRM,
PRED CRPXLN, MSTLY BLKY, SME
PLTY, SUB ANG - SUB RND, MOD
FRM - VRY FRM, ABUN BRTL, SME
HL FRAC POR, SME SUC; CHRT:
PRED OPQ WHT, TR ASPH, MSTLY
MASS XLN, BLKY, PRED SUB ANG,
HRD, SCAT TRIP, SME BRTL; SCAT
GRNSH FLUOR, PR GRNSH CUT,
NO RES RING

MD 5455 TVD 4467.6
INC 89.8 AZ 0.4
VS 1307.89

MD 5547 TVD 4467.44
INC 90.4 AZ 0.2
VS 1399.85

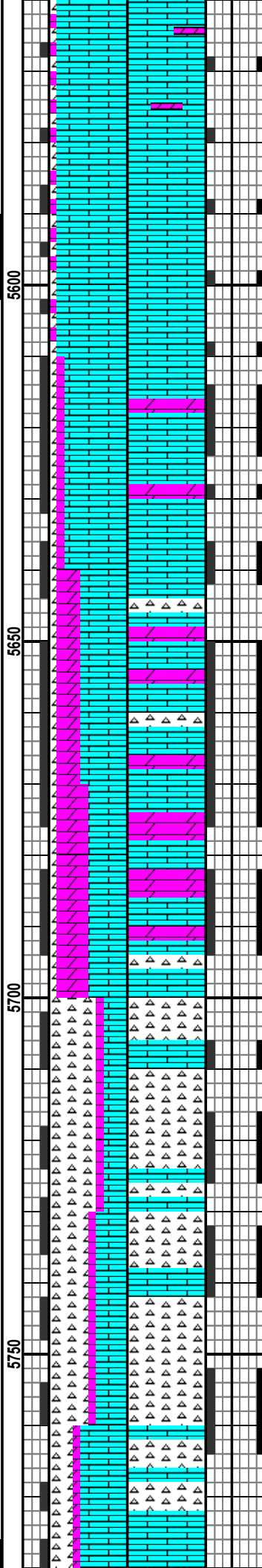
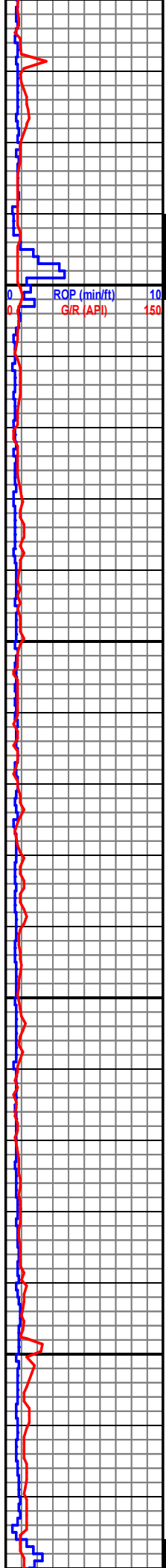


LS: WHT - OFF WHT, TR LT CRM,
PRED CRPXLN, MSTLY BLKY, SME

WOB: 18.1
RPM: 0
SPM: 94
PSI: 1203

MD 5638 TVD 4467.36
INC 89.7 AZ 359.6
VS 1490.83

MD 5731 TVD 4467.11
INC 90.6 AZ 359.3
VS 1583.83

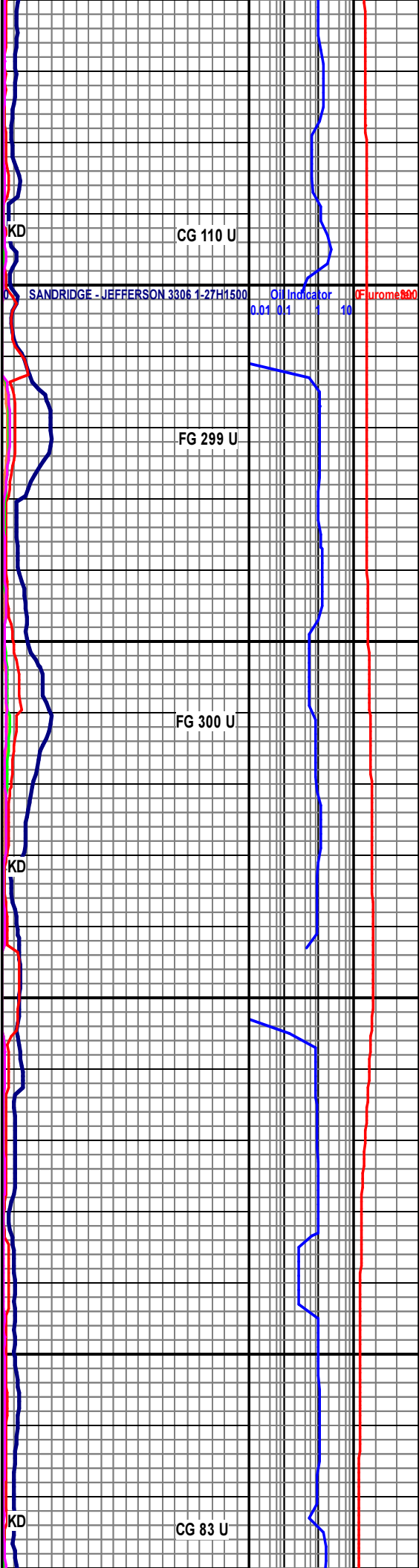


PRED CRPXLN, MSTLY BLKY, SME
PLTY, SUB ANG - SUB RND, MOD
FRM - VRY FRM, ABUN BRTL, SME
HL FRAC POR, SME SUC; CHRT:
PRED OPQ WHT, TR ASPH, MSTLY
MASS XLN, BLKY, PRED SUB ANG,
HRD, SCAT TRIP, SME BRTL; SCAT
GRNSH FLUOR, PR GRNSH CUT,
NO RES RING

MUD CK @5,659'
MW: 8.40
FV: 27
PV: 1
YP: 1
GEL: 1 / 1
API: 60.0
CAKE: /
0.5%
WAT: 99.5%
PH: 10.0
FA: /
CHL: 1500
HARD: 200

LS: PRED OFF WHT - WHT, PRED
CRPXLN - VFN MIC XLN, MSTLY
BLKY, SUB ANG - SUB RND, FRM,
BRTL, SME HL FRAC POR, SME
SUC; DOL: PRED OFF WHT - LT
CRM, FN MIC XLN, SUC, CHNKY,
SUB RND, MOD FRM, VRY BRTL;
CHRT: PRED OFF WHT, BLKY, SUB
ANG, FRM - HRD, TR TRIP; SCAT
BRT WHT FLUOR, SLW GRNSH
CUT, VRY THN YELSH RES RING

CHRT: OPQ OFF WHT - LT CRM, TR
TRNSL MLKY WHT, SME SPIC, TR
ASPH, MASS XLN, PRED SUB ANG,
HRD - VRY HRD, ABUN BRTL, SME
CNCH FRAC; LS: MSTLY OFF WHT -
WHT, PRED CRPXLN, SME FN XLN,
MSTLY BLKY, SME CHNKY, FRM -
VRY FRM, SME BRTL, SME SUC;
DOL: PRED OFF WHT - LT CRM,
SUC, FN GRN, CHNKY, MOD FRM,
VRY BRTL; TR WHT FLUOR, SLW
GRNSH CUT, NO VIS RES RING



CG 110 U

FG 299 U

FG 300 U

CG 83 U

SOL:

KD

KD

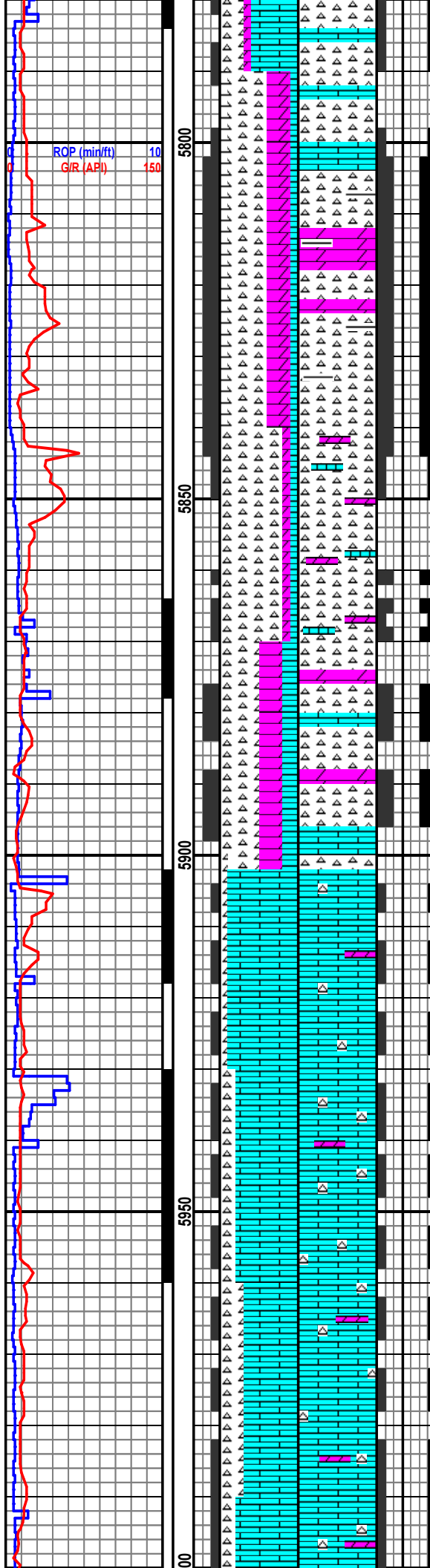
KD

WOB: 16.9
RPM: 61
SPM: 93
PSI: 1549

MD 5822 TVD 4465.76
INC 91.1 AZ 0.3
VS 1674.79

MD 5915 TVD 4463.98
INC 91.1 AZ 359.6
VS 1767.76

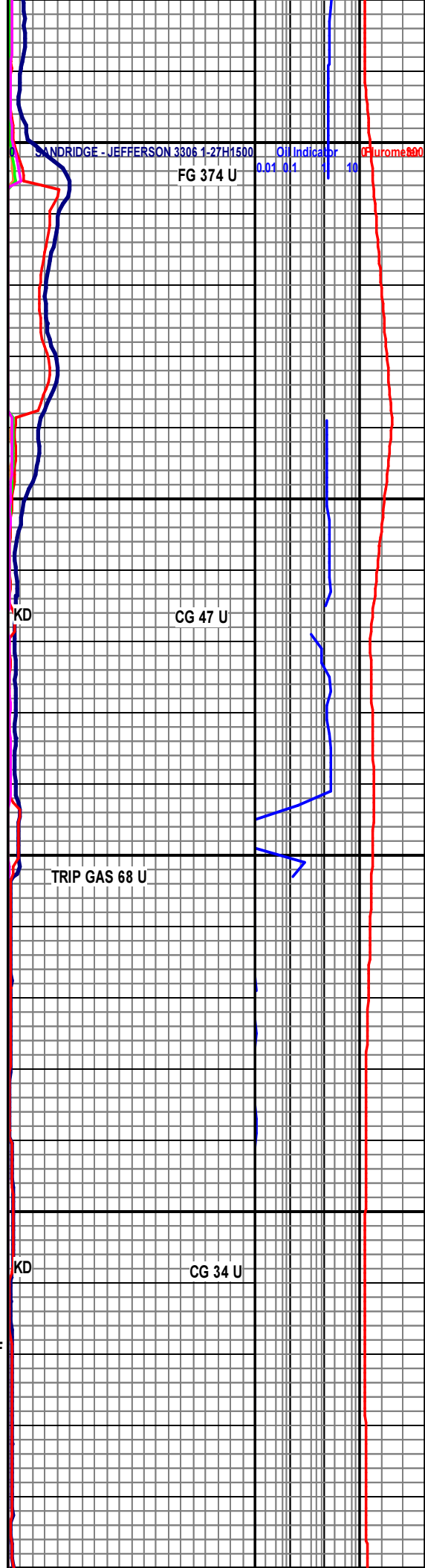
WOB: 14.1
RPM: 100



CHRT: PRED OPQ OFF WHT - WHT,
SCAT TRNSL CLR - MLKY WHT,
ABUN ASPH, ABUN LT TAN STNG,
TR TRIP, MSTLY MAS XLN, BLKY,
SUB ANG, HRD, SME BRTL; DOL:
MSTLY LT CRM, FN GRAN TXT,
SUC, MOD FRM, VRY BRTL; LS:
MSTLY OFF WHT, CRPXLN, FRM,
SME PLTY, SME BLKY, SME SUC,
FRM, SME HL FRAC POR; SH:
MSTLY LT - MED GRY, VFN TXT,
FISL, MOD FRM, VRY BRTL; ABUN
BRT WHT FLUOR, GD BRT FST
GRNSH MLKY CUT, THK CHLKY
GRNSH RES RING

TOOH @ 5,002' FOR
DIRECTIONAL TOOL
FAILER

LS: WHT TO OFF WHT, TR LT CRM,
MSTLY BLKY, SME PLTY, SUB ANG
TO SUB RND, MOD FRM TO VRY
FRM, SME BRTL, SME HL FRAC
POR; CHRT: PRED OPQ TO CLR,
MSTLY MASS XLN, BLKY, PRED
SUB ANG, HRD, SME BRTL; TR OFF
WHT DOL, PP BRT YEL FLOR, WK
WHT CUT, NO VIS RESD RING,



CG 47 U
TRIP GAS 68 U
CG 34 U

SPM:99
 PSI:1685
 MD 6008 TVD 4462.44
 INC 90.8 AZ 358.8
 VS 1860.73

ROP (mir/ft) 10
 G/R (API) 150

MD 6103 TVD 4461.44
 INC 90.4 AZ 358.8
 VS 1955.72

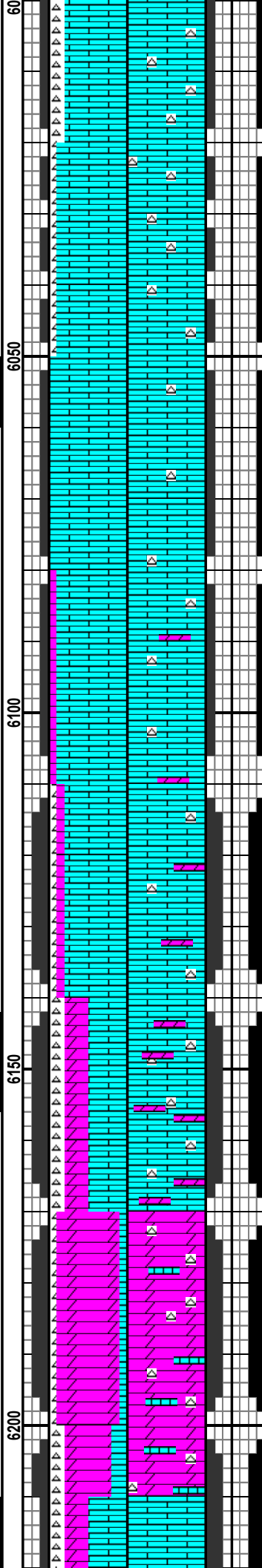
7/1/2013 @
 6,121'

WOB:12.4
 RPM:58
 SPM:0
 PSI:1566

ROP (mir/ft) 10
 G/R (API) 150

MD 6196 TVD 4461.12
 INC 90 AZ 358
 VS 2048.72

7/3/2013

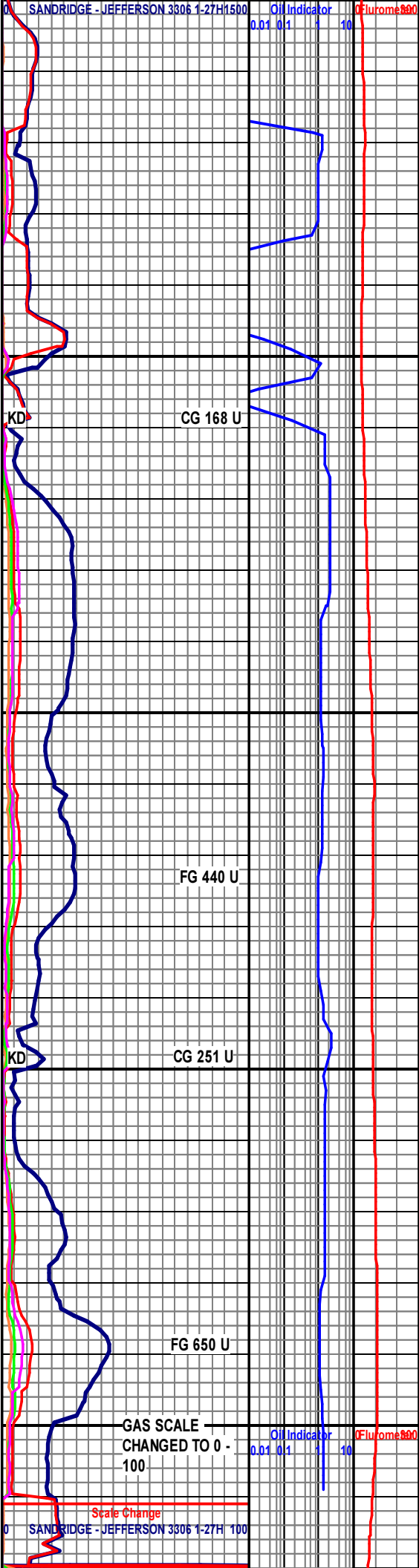


LS: WHT TO OFF WHT, TR LT CRM,
 MSTLY BLKY, SME PLTY, SUB ANG
 TO SUB RND, MOD FRM TO VRY
 FRM, SME BRTL, SME HL FRAC
 POR; TR OPQ TO WHT CHRT, YEL
 FLOR THRU OUT, THK YEL LISH
 WHT CUT, THN YEL GLD RESD
 RNG,

LS: WHT TO OFF WHT, SME LT
 GRY TO MED GRY, TR LT CRM,
 MSTLY BLKY, SME PLTY, SUB ANG
 TO SUB RND, MOD FRM TO VRY
 FRM, SME BRTL, SME HL FRAC
 POR; CHRT: PRED OPQ OFF WHT
 TO WHT, SCAT TRNSL CLR TO
 MLKY WHT, V FN XLN, BLKY, SUB
 ANG TO OCC SUB RND, HRD TO V
 HRD, SME BRTL; DOL: MSTLY LT
 CRM, FN GRAN TXT, SUC, MOD
 FRM, SME BRTL; BRT YEL FLOR,
 FST MLKY WHT CUT, THN YEL
 RESD RNG,

WELL SIDETRACKED @
 6,211' MD 4,461' TVD ON
 7/2/2013

BIT# 5: 6 1/8"



KS
 CG 168 U

FG 440 U

KS
 CG 251 U

FG 650 U

GAS SCALE
 CHANGED TO 0 -
 100

Scale Change
 SANDRIDGE - JEFFERSON 3306 1-27H 1500

MD 6226 TVD 4461.93
INC 86.9 AZ 357.8
VS 2078.67

MD 6256 TVD 4464.05
INC 85.4 AZ 358.9
VS 2108.6

MD 6287 TVD 4466.64
INC 85.4 AZ 358.9
VS 2139.48

7/4/2013@
6,302'

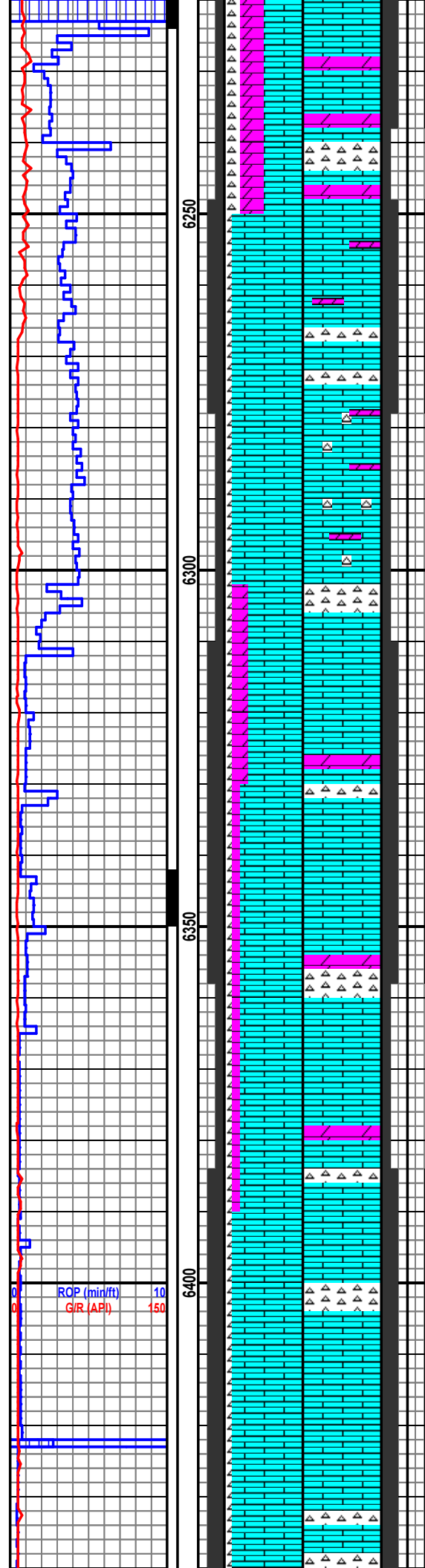
MD 6318 TVD 4469.24
INC 85.4 AZ 359.7
VS 2170.39

MD 6348 TVD 4471.8
INC 85.2 AZ 0.4
VS 2200.27

MD 6378 TVD 4474.26
INC 85.4 AZ 0.6
VS 2230.15

WOB: 11.2
RPM: 54
SPM: 94
PSI: 2024

MD 6409 TVD 4476.69
INC 85.6 AZ 0.6
VS 2261.03



MAKE: SMITH
TYPE: XR40Y
SER#: PY3556
JETS: 3-16S

BHA: MOTOR @ 1.5;
UBHO SUB; NMDC
SLICK; NMDC FLEX; X.O.
; 162 JTS 4" PUSH PIPE;
H.W.D.P

LS: PRED OFF WHT - LT CRM, TR
LT TAN STNG, SCAT ASPH, PRED
CRPXLN, SME VFN MIC XLN, PRED
BLKY, SME CHNKY, PRED SUB
RND, MSTLY FRM, SME BRTL, TR
PP POR, SME SUC; CHRT: PRED
OPQ OFF WHT, SCAT TRNSL CLR -
MLKY WHT, TR ASPH, MSTLY MASS
XLN, BLKY, PRED SUB ANG, HRD -
VRY HRD, TR BRTL, TR TRIP; SCAT
BRT GRN FLUOR, FR - GD GRNSH
RES RING

TOH @ 6,302' MD FOR
NEW MOTOR AND BIT

BIT# 6: 6 1/8"
MAKE: HALIBURTON
TYPE: MM64D
SER#: 121295251
JETS: 4-16S 2-14

BHA: MOTOR @ 1.5;
UBHO SUB; NMDC
SLICK; NMDC FLEX; X.O.
; 162 JTS 4" PUSH PIPE;
H.W.D.P

LS: PRED LT CRM, SME LT TAN
STNG, MSTLY VFN MIC XLN, SME
CRPXLN, PRED BLKY, SME CHNKY,
TR PLTY, MOD FRM, VRY BRTL,
ABUN SUC, ABUN PP POR; DOL:
MSTLY CRM, CRPXLN, SME PLTY,
SME BLKY, FRM, BRTL; CHRT:
MSTLY OPQ WHT - CRM, MASS
XLN, HRD, BRTL, SCAT TRIP; SCAT
GRN FLUOR, FR - GD GRN FLSH
CUT, THN CHLKY GRNSH RES RING

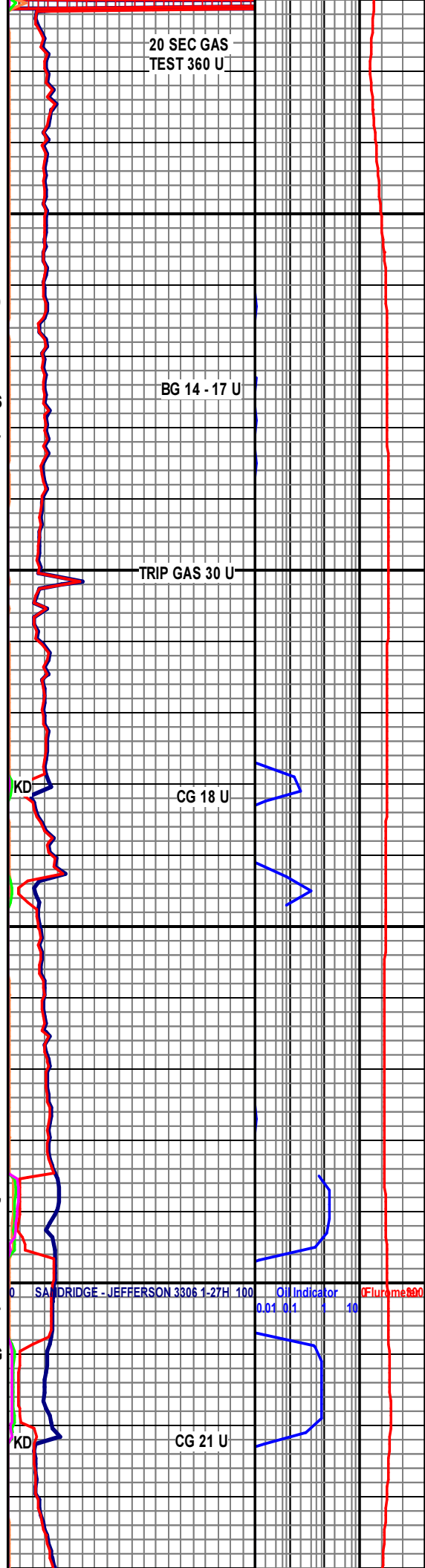
20 SEC GAS
TEST 360 U

BG 14 - 17 U

TRIP GAS 30 U

CG 18 U

CG 21 U



ROP (min/ft) 10
G/R (API) 150

SAUNDRIE - JEFFERSON 3306 1-27H 100 Oil Indicator 0.01 0.1 10 Fluorine 800

MD 6470 TVD 4481.05
INC 86.2 AZ 0.5
VS 2321.84

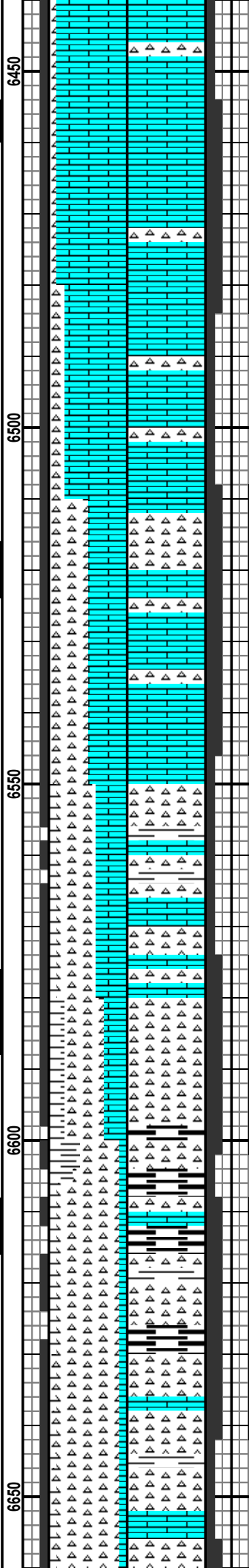
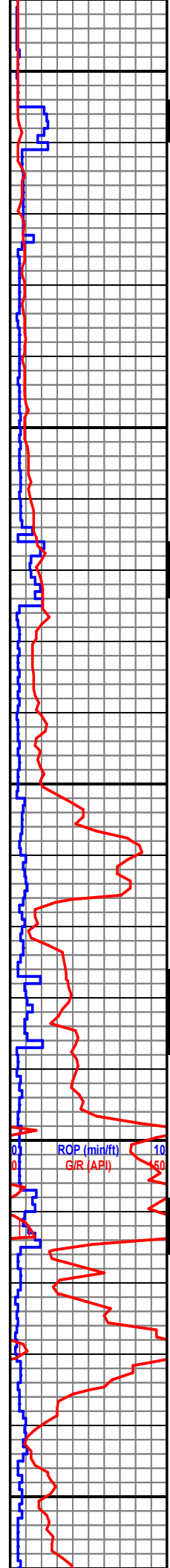
MD 6531 TVD 4484.62
INC 87.1 AZ 0.6
VS 2382.72

MD 6562 TVD 4486.21
INC 87 AZ 0.7
VS 2413.64

WOB: 14.9
RPM: 54
SPM: 93
PSI: 2047

MD 6625 TVD 4488.47
INC 88.9 AZ 0.9
VS 2476.57

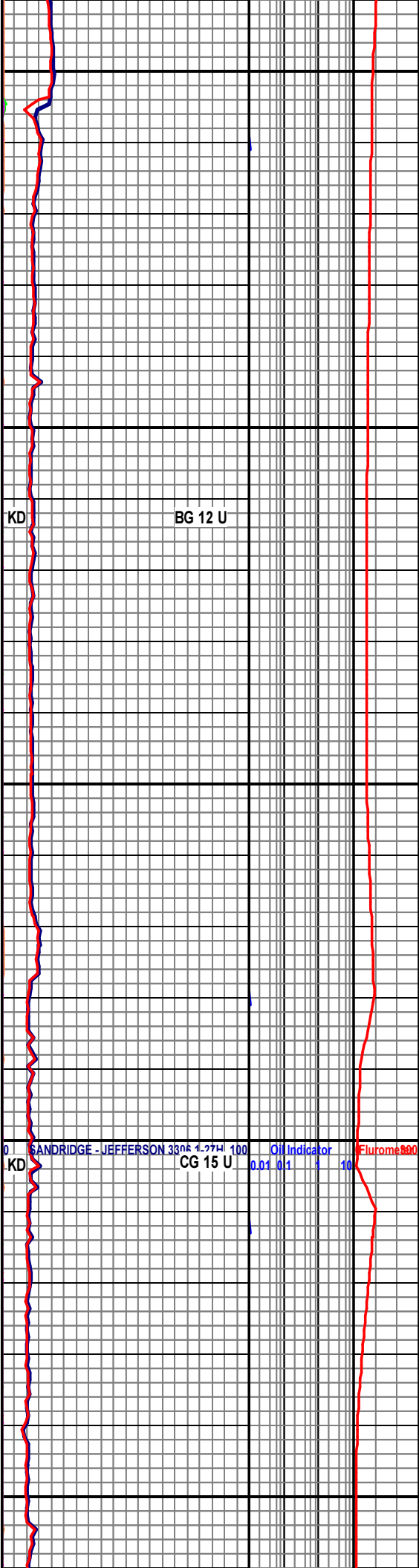
MD 6658 TVD 4489.21



LS: PRED LT CRM, SME LT TAN STNG, MSTLY VFN MIC XLN, SME CRPXLN, PRED BLKY, SME CHNKY, TR PLTY, MOD FRM, VRY BRTL, ABUN SUC, ABUN PP POR; DOL: MSTLY CRM, CRPXLN, SME PLTY, SME BLKY, FRM, BRTL; CHRT: MSTLY OPQ WHT - CRM, MASS XLN, HRD, BRTL, SCAT TRIP; SCAT GRN FLUOR, FR - GD GRN FLSH CUT, THN CHLKY GRNSH RES RING

MUD CK @6,535'
MW: 8.60
FV: 45
PV: 14
YP: 12
GEL: 7 / 14
API: 5.0
CAKE: 2 / 32
SOL: 2.0%
WAT: 98.0%
PH: 10.0
FA: 0.3 / 0.9
CHL: 2000
HARD: 80

CHRT: PRED OPQ OFF WHT - LT CRM, SME TRNSL MLKY WHT, SME CLR, ABUN ASPH, ABUN STNG, SME SPIC, BLKY, MSTLY SUB ANG, HRD - VRY HRD, SME BRTL, ABUN CNCH FRAC; SH: PRED MED GY, SME BLK, ABUN MOT, SME LT GY, SME BNDED, MSTLY BLKY, FRM, SME BRT; LS: MSTLY OFF WHT - LT CRM, SME STNG, ABUN CRIN, SME OOD, BLKY, SUB ANG - SUB RND, FRM, BRTL, SME SUC, SME PP POR; SCAT BRT GRN FLUOR, FST GRNSH CUT, THK GRNSH RES RING



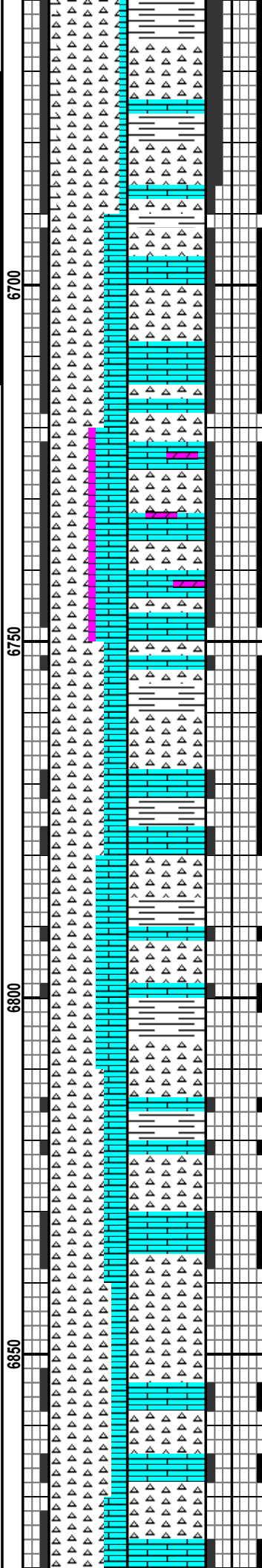
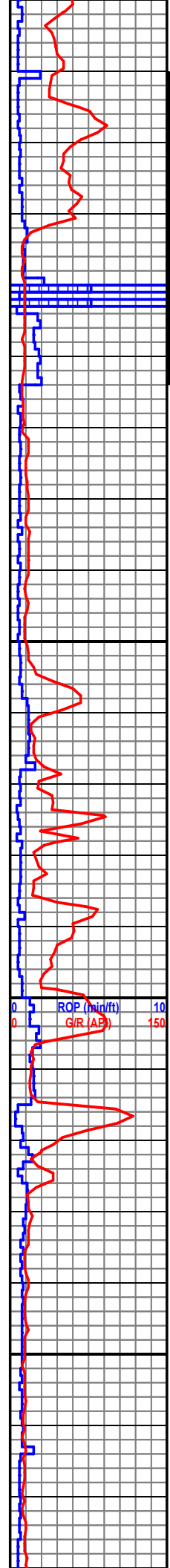
MD 6700 TVD 4489.27
INC 88.5 AZ 1.2
VS 2509.53

MD 6721 TVD 4489.98
INC 90.1 AZ 1.2
VS 2572.46

MD 6753 TVD 4489.82
INC 90.5 AZ 0.8
VS 2604.42

WOB:16.1
RPM:54
SPM:94
PSI:2006

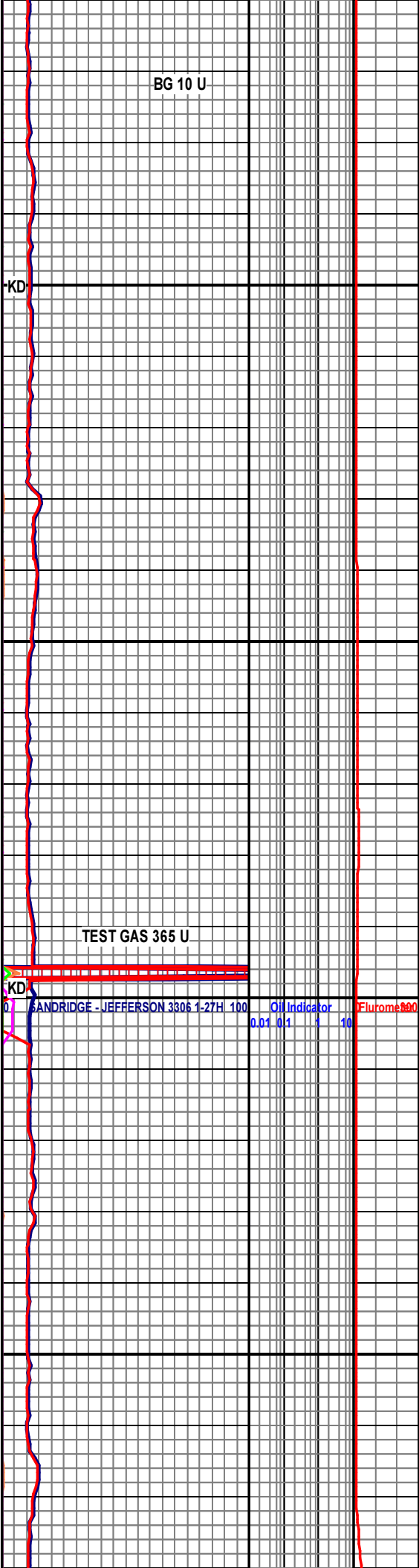
MD 6848 TVD 4488.49
INC 91.1 AZ 0.2
VS 2699.37



5 STAND SHORT WIPER TRIP

CHRT: MSTLY OFF WHT TO LT CRM,
SME TRNSL TO OPQ, SME CLR,
SME SPIC, BLKY, MSTLY SUB ANG,
HRD TO VRY HRD, OCC BRTL, SME
FRAC POR; LS: PRED OFF WHT TO
LT TAN, SME CRM, BLKY, FLKY,
OCC CHNK, SUB ANG TO SUB RND,
FRM, SME BRTL, OCC SUC, SME
PP POR; TR BRT GRN FLOR, YEL
WHT CUT, NO RESD RNG,

CHT: PRED WHT TO OFF WHT, SME
TRNSL TO OPQ, SME CLR, OCC
BRWN TO DRK TAN, BLKY, CHNKY,
SUB ANG TO ANG, HRD TO V HRD,
OCC BRTL, SME FRAC POR, LS:
MSTLY OFF WHT TO CRM, SME LT
TAN TO WHT, BLKY, FLKY, TR
CHNKY, SUB ANG TO SUB RND,
FRM TO MOD FRM, OCC BRTL, TR
SUC, SME PP FRAC POR, DUL PP



BG 10 U

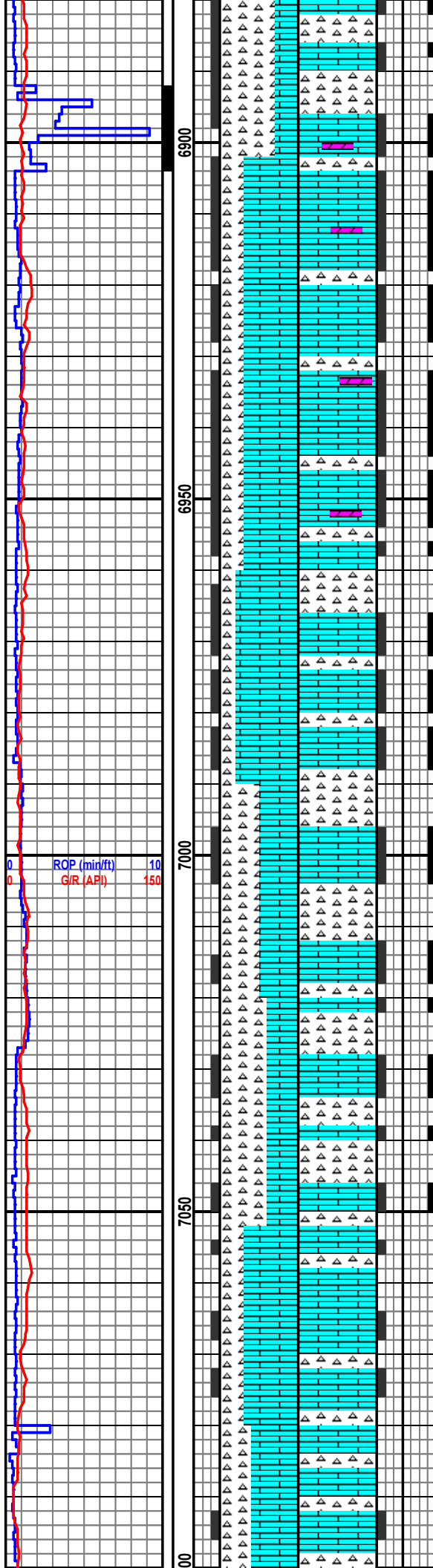
TEST GAS 365 U

SANDRIDGE - JEFFERSON 3306 1-27H 100 Oil Indicator Fluorine 800
0.01 0.1 1 10

MD 6942 TVD 4487.75
INC 89.8 AZ 0.7
VS 2793.32

WOB: 18.8
RPM: 60
SPM: 94
PSI: 2041

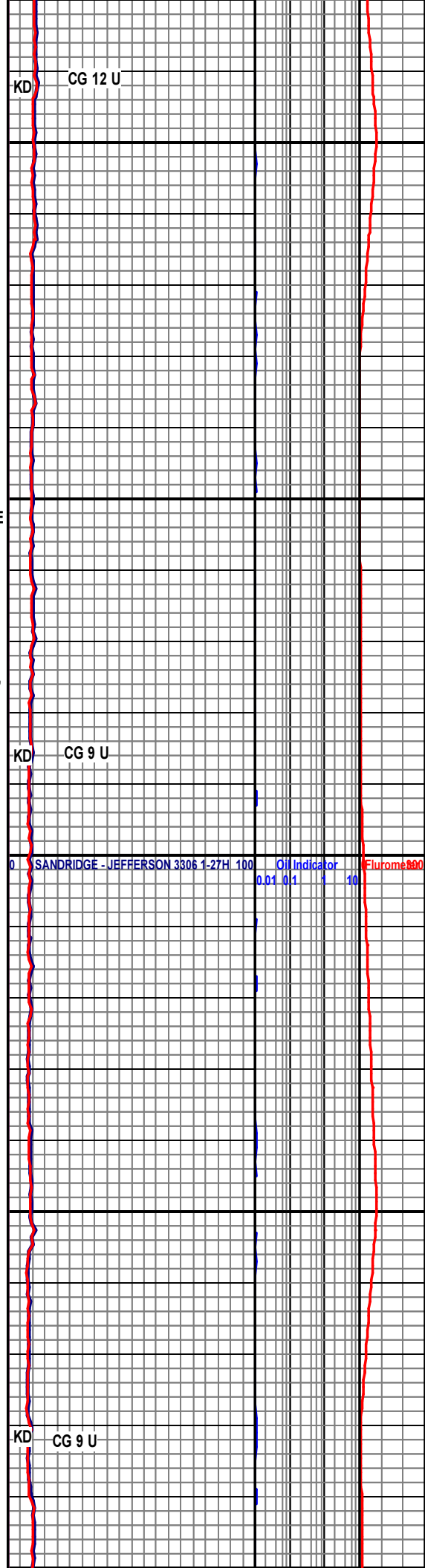
MD 7037 TVD 4488.42
INC 89.4 AZ 0.1
VS 2888.26



YEL FLOR, WK MLKY WHT CUT,
THN YEL RESD RNG,

LS: MSTLY OFF WHT TO CRM, SME
LT TAN TO WHT, BLKY, FLKY, TR
CHNKY, SUB ANG TO SUB RND,
FRM TO MOD FRM, OCC BRTL, TR
SUC, SME PP FRAC POR, CHT:
PRED WHT TO OFF WHT, SME
TRANSL TO OPQ, SME CLR, OCC
BRWN TO DRK TAN, BLKY, CHNKY,
SUB ANG TO ANG, HRD TO V HRD,
OCC BRTL, SME FRAC POR, DUL
PP YEL FLOR, THN WHT CUT, NO
RESD RNG,

LS: MSTLY OFF WHT TO LT GRY,
SME LT TAN TO GRY, BLKY, FLKY,
SUB ANG TO SUB RND, FRM TO
MOD FRM, OCC BRTL, SME PP
FRAC POR, CHT: PRED WHT TO LT
GRY, SME OPQ, SME CLR, BLKY,
CHNKY, SUB ANG TO ANG, HRD
TO V HRD, OCC BRTL, OCC TRIPO
PRESNT, SME FRAC POR, TR PP
YEL GRN FLOR, NO VIS CUT, NO
RESD RNG,



KD CG 12 U

KD CG 9 U

0 SANDRIDGE - JEFFERSON 3306 1-27H 100 0.01 0.1 10

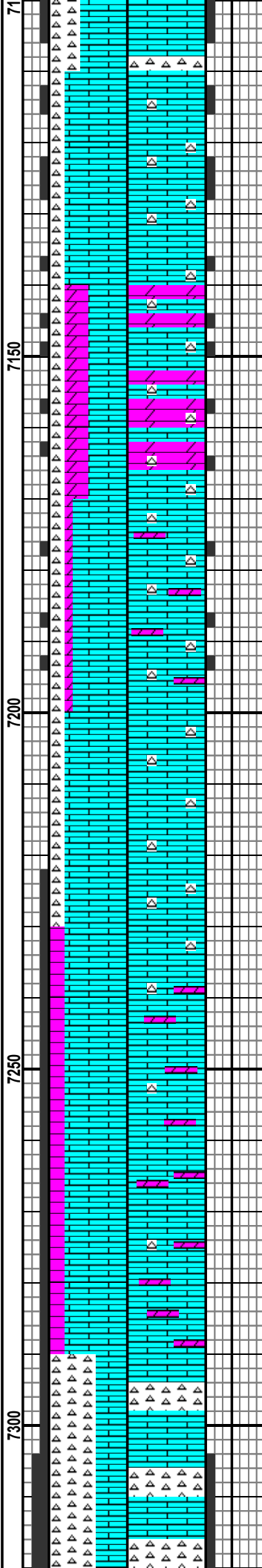
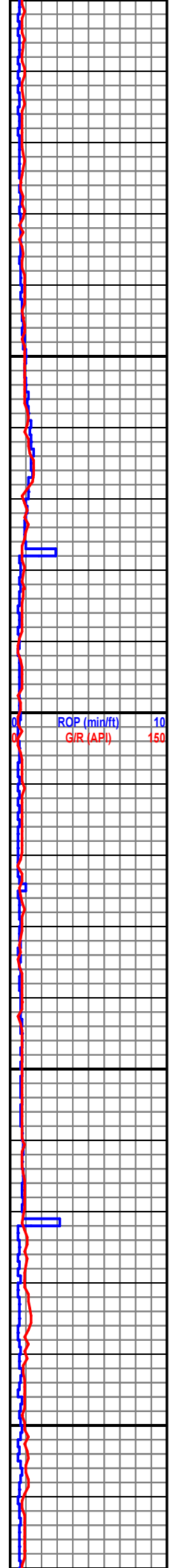
KD CG 9 U

7/5/2013 @
7,125'

MD 7132 TVD 4489.24
INC 89.6 AZ 0.2
VS 2983.24

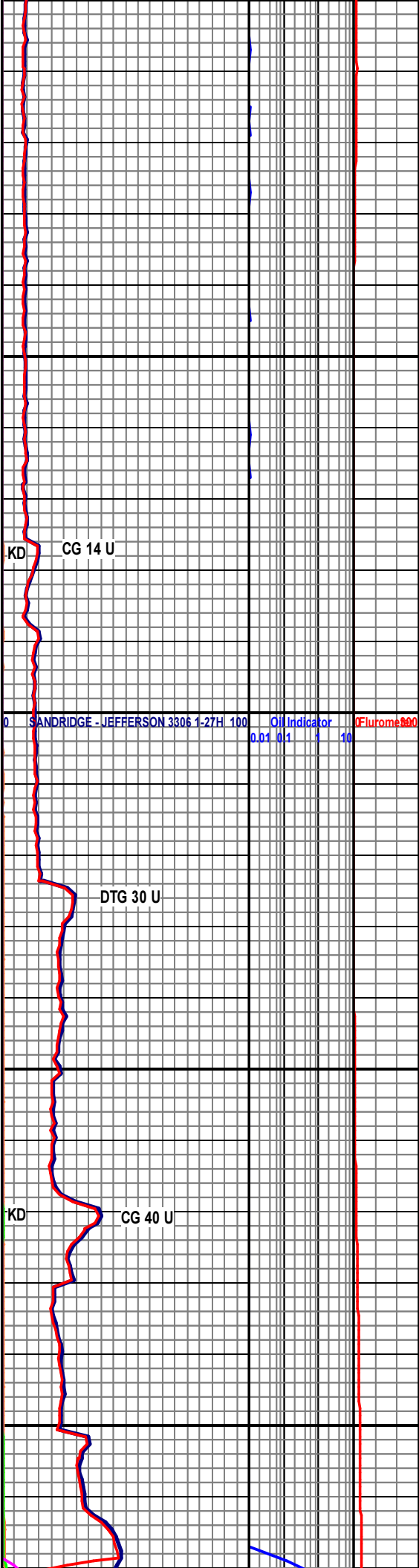
WOB: 18.0
RPM: 59
SPM: 92
PSI: 2167

MD 7227 TVD 4489.66
INC 89.9 AZ 0.2
VS 3078.19



LS: MSTLY OFF WHT TO CRM, SME
LT TAN TO WHT, BLKY, FLKY, SUB
ANG TO SUB RND, FRM TO MOD
FRM, OCC BRTL, SME PP FRAC
POR, CHT: PRED WHT TO OFF WHT,
SME OPQ, SME CLR, BLKY,
CHNKY, SUB ANG TO ANG, HRD
TO V HRD, OCC BRTL, SME TRIPO,
TR FRAC POR, DUL PP YEL FLOR,
NO CUT, NO RESD RNG,

LS: MSTLY CRM TO LT TAN, SME
OFF WHT TO WHT, BLKY, FLKY,
SUB ANG TO SUB RND, FRM TO
MOD FRM, OCC BRTL, SME PP
FRAC POR, DOL: PRED WHT TO
CRM, SME LT TAN TO LT BRWN,
OCC OFF WHT TO LT GRY, BLKY,
CHNKY, OCC FLKY, MSTLY SUB
RND TO SUB ANG, MOD FRM TO
FRM, TR BRTL, TR CHT: SME FRAC
POR, NO VIS FLOR, NO CUT,



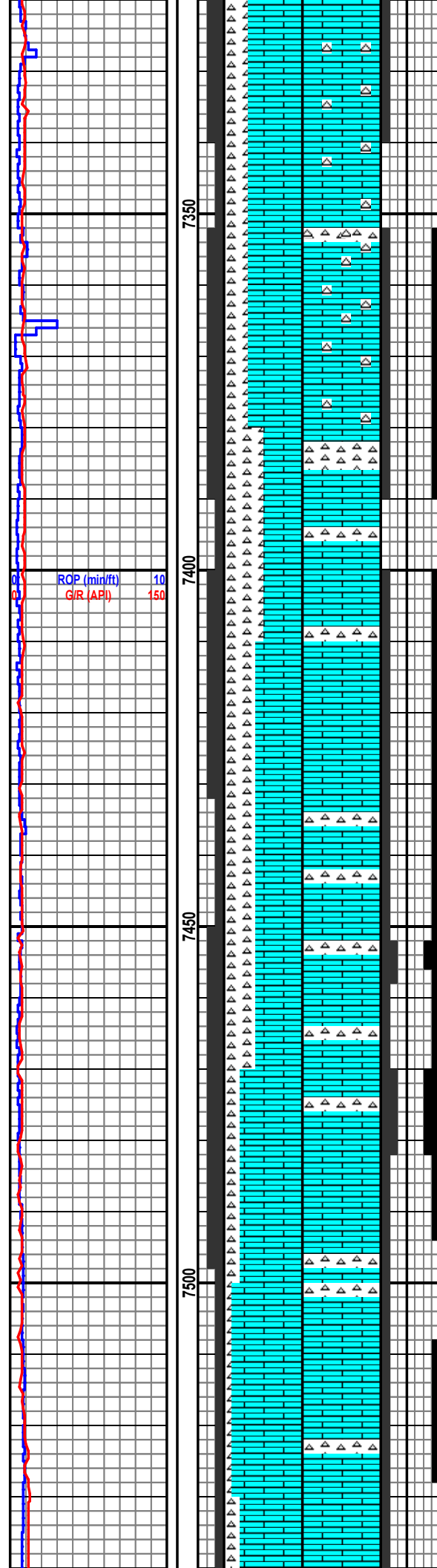
SANDRIDGE - JEFFERSON 3306 1-27H 100 Oil Indicator Fluorine
0.01 0.1 1 10

MD 7322 TVD 4489.33
INC 90.5 AZ 359.5
VS 3173.18

WOB: 18.7
RPM: 61
SPM: 93
PSI: 2171

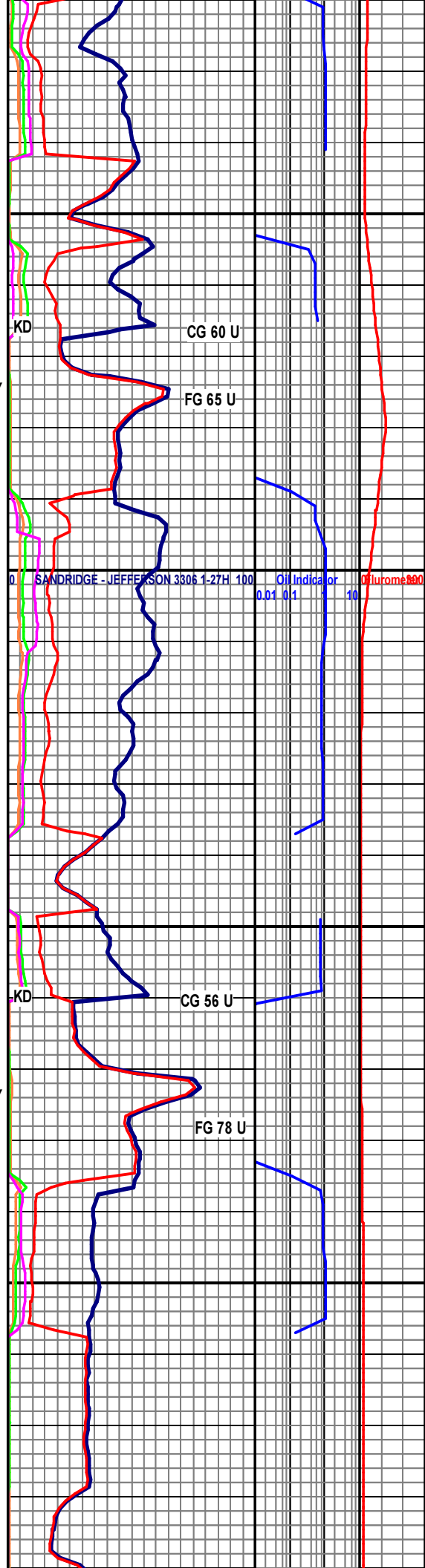
MD 7417 TVD 4488.58
INC 90.4 AZ 359.2
VS 3268.15

MD 7511 TVD 4487.76
INC 90.6 AZ 358.5
VS 3362.16



CHRT: PRED OPQ OFF WHT - LT
CRM, SME TRNSL, SME LT TAN
STNG, MSTLY MASS XLN, BLKY,
SUB ANG - SUB RND, HRD - VRY
HRD; LS: MSTLY OFF WHT, SME LT
CRM, SME CRPXLN, SME VFN MIC
XLN, MSTLY BLKY, TR PLTY, MSTLY
SUB RND, FRM, BRTL, SME SUC,
SME HL FRAC POR, SME PP POR;
SCAT BRT GRN FLUOR, FR GRNSH
CUT, THN YELSH RES RING

CHRT: PRED OPQ OFF WHT - LT
CRM, SME TRNSL, SME LT TAN
STNG, MSTLY MASS XLN, BLKY,
SUB ANG - SUB RND, HRD - VRY
HRD; LS: MSTLY OFF WHT, SME LT
CRM, SME CRPXLN, SME VFN MIC
XLN, MSTLY BLKY, TR PLTY, MSTLY
SUB RND, FRM, BRTL, SME SUC,
SME HL FRAC POR, SME PP POR;
SCAT BRT GRN FLUOR, FR GRNSH
CUT, THN YELSH RES RING

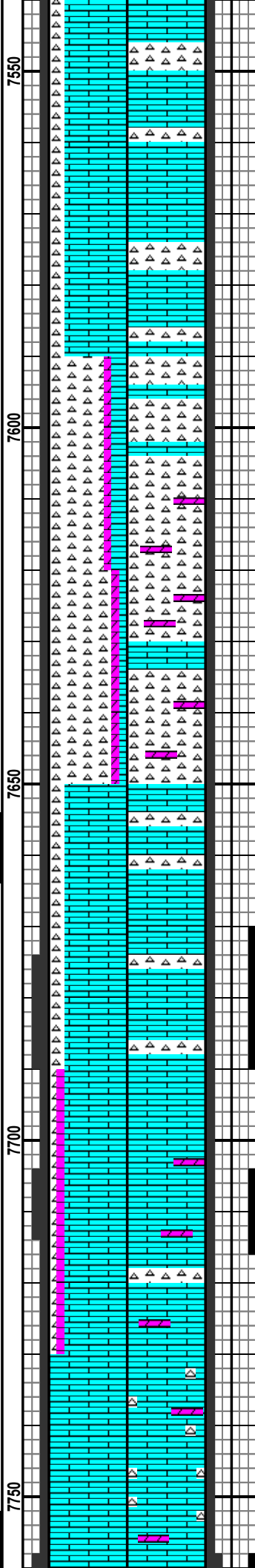
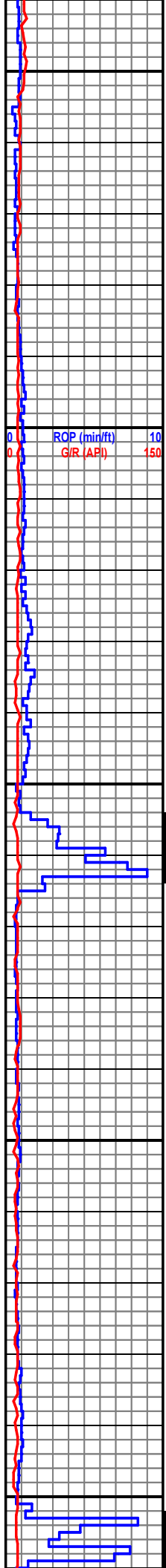


SANDRIDGE - JEFFERSON 3306 1-27H 100 Oil Indicator 0.01 0.1 Fluorine 10

WOB: 19.3
RPM: 60
SPM: 95
PSI: 2130

MD 7607 TVD 4486.42
INC 91 AZ 357.9
VS 3458.16

MD 7702 TVD 4485.26
INC 90.4 AZ 358.9
VS 3553.12

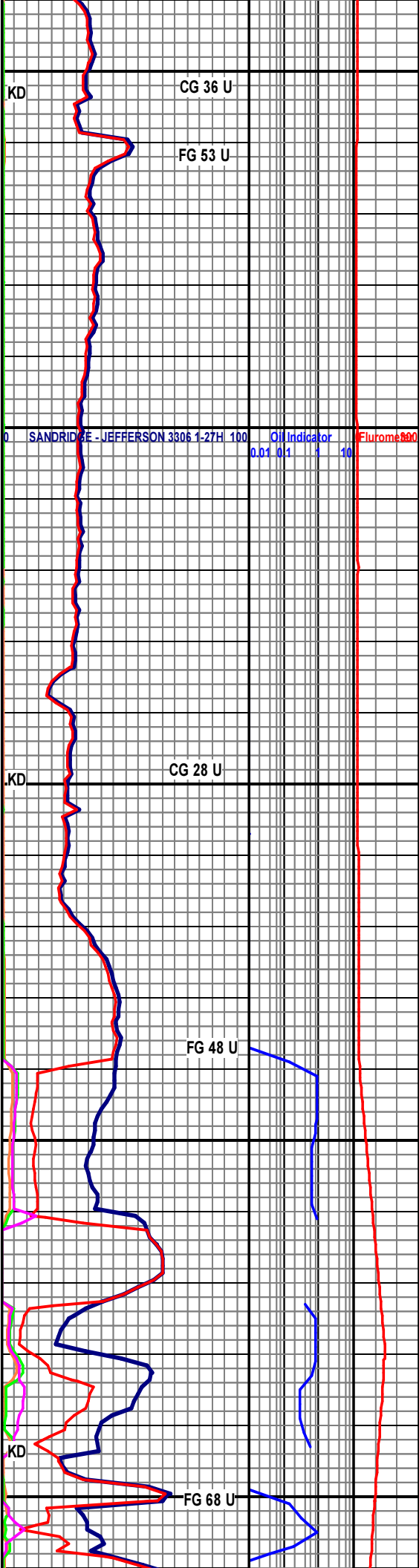


LS: PRED LT CRM, SME LT TAN STNG, PRED CRPXLN, SME MIC XLN, BLKY, SME CHNKY, MOD FRM - VRM, BRT SME SUC, SCAT HL FRAC POR, TR PP POR; CHRT: PRED OPQ OFF WHT - LT CRM, SME TRNSL MLKY WHT, SME CRL, MSTLY BLKY, SUB ANG - SUB RND, FRM - HRD, SME BRTL, SCAT TRIP; TR GRNSH FLUOR, SLW PR GRNSH CUT, NO VIS RES RING

CHRT: MSTLY OPQ MLKY WHT, SME TRNSL, SCAT CRM, TR CLR, SCAT ASPH, PRED BLKY, PRED SUB ANG, MSTLY HRD, SME VRY HRD, SME BRTL, TR TRIP; LS: PRED LT CRM, MSTLY CRPXLN, SME BLKY, SME CHNKY, MSTLY FRM, BRTL, SUC; DOL: PRED MED CRM, SME LT TAN STNG, PRED CRPXLN, PRED PLTY, MOD FRM, BRTL, SCAT HL FRAC POR; TR BRT GRNSH YEL FLUOR, SLW PR GRNSH CUT, NO RES RING

MUD CK @7,757'
MW: 9.00
FV: 40
PV: 10
YP: 10
GEL: 6 / 12
API: 6.0
CAKE: 1 / 32
SOL: 4.5%
WAT: 95.5%
PH: 9.0
FA: 0.2 / 0.6
CHL: 2800
HARD: 120

LS: PRED MED CRM, SCAT LT TAN STNG, CRPXLN - VFN MIC XLN, MSTLY BLKY, SUB ANG - SUB RND, MOD FRM, ABUN SUC, VRY BRTL, SME HL FRAC POR, SCAT PP POR; TR: DOL, TR: CHRT; SCAT BRT YELSH GLD FLUOR, THN GRNSH RES RING



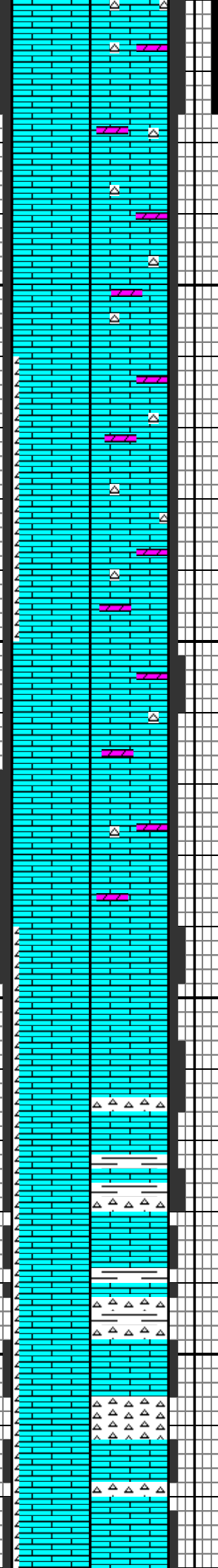
WOB: 16.5
RPM: 50
SPM: 90
PSI: 2093

MD 7798 TVD 4484.09
INC 91.1 AZ 0.2
VS 3649.11

ROP (min/ft) 10
G/R (API) 150

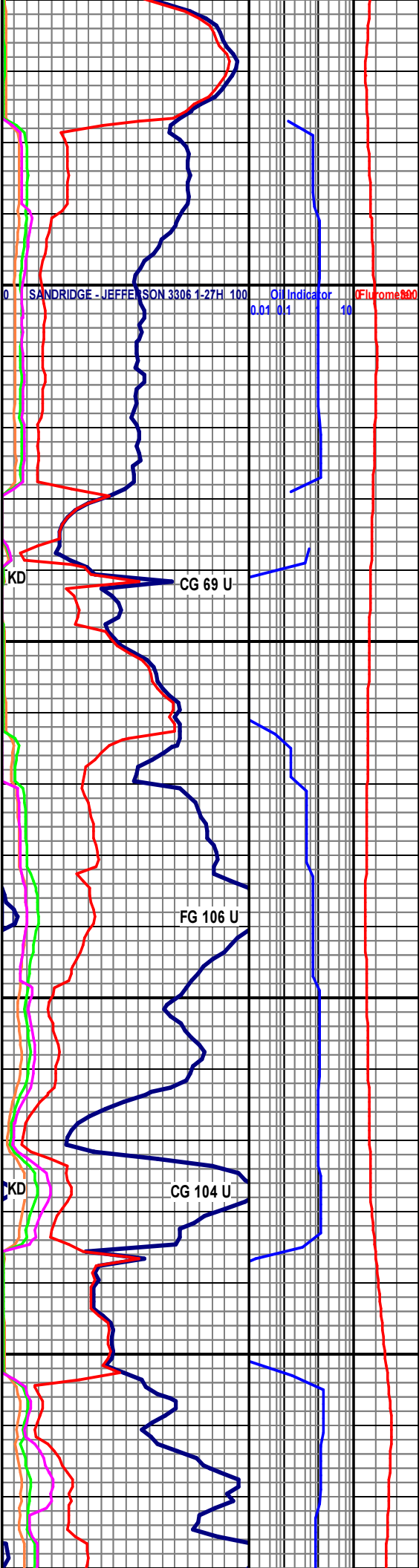
MD 7893 TVD 4482.18
INC 91.3 AZ 0.5
VS 3744.04

7800
7850
7900
7950



LS: PRED MED CRM, SCAT LT TAN
STNG, CRPXLN - VFN MIC XLN,
MSTLY BLKY, SUB ANG - SUB RND,
MOD FRM, ABUN SUC, VRY BRTL,
SME HL FRAC POR, SCAT PP POR;
CHRT: MSTLY OPQ OFF WHT - WHT,
SME LT CRM, SME TRNSL MLKY
WHT, TR CLR, MSTLY MASS XLN,
PRED BLKY, HRD, SME TRIP; SCAT
BRT YELSH GLD FLUOR, SLW
GRNSH CUT, THN GRNSH RES
RING

LS: PRED MED CRM, SCAT LT TAN
STNG, CRPXLN - VFN MIC XLN,
MSTLY BLKY, SUB ANG - SUB RND,
MOD FRM, ABUN SUC, VRY BRTL,
SME HL FRAC POR, SCAT PP POR;
CHRT: MSTLY OPQ OFF WHT - WHT,
SME LT CRM, SME TRNSL MLKY
WHT, TR CLR, MSTLY MASS XLN,
PRED BLKY, HRD, SME TRIP; ABUN
BRT YELSH GLD FLUOR, SLW GRN
CUT, THN GRNSH RES RING



SANDRIDGE - JEFFERSON 3306 1-27H 100
Oil Indicator 0.01 0.1
Fluorine 10

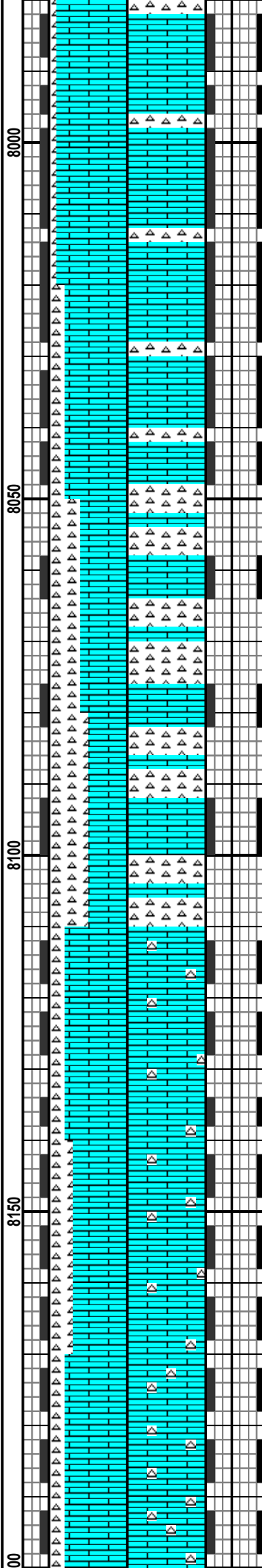
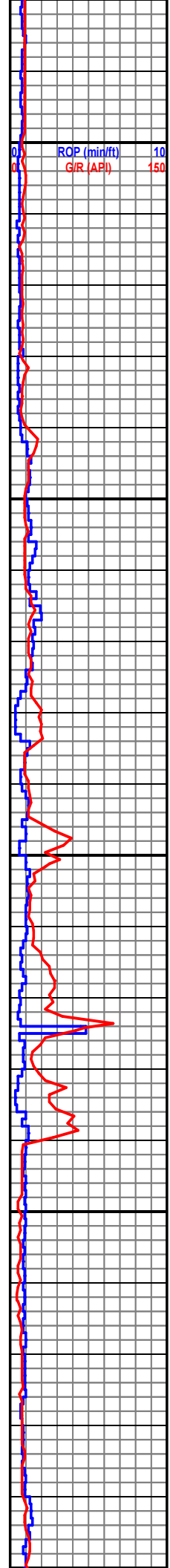
KD CG 69 U

FG 106 U

KD CG 104 U

MD 7987 TVD 4479.31
INC 92.2 AZ 0.5
VS 3837.96

WOB: 160.8
RPM: 51
SPM: 90
PSI: 2003



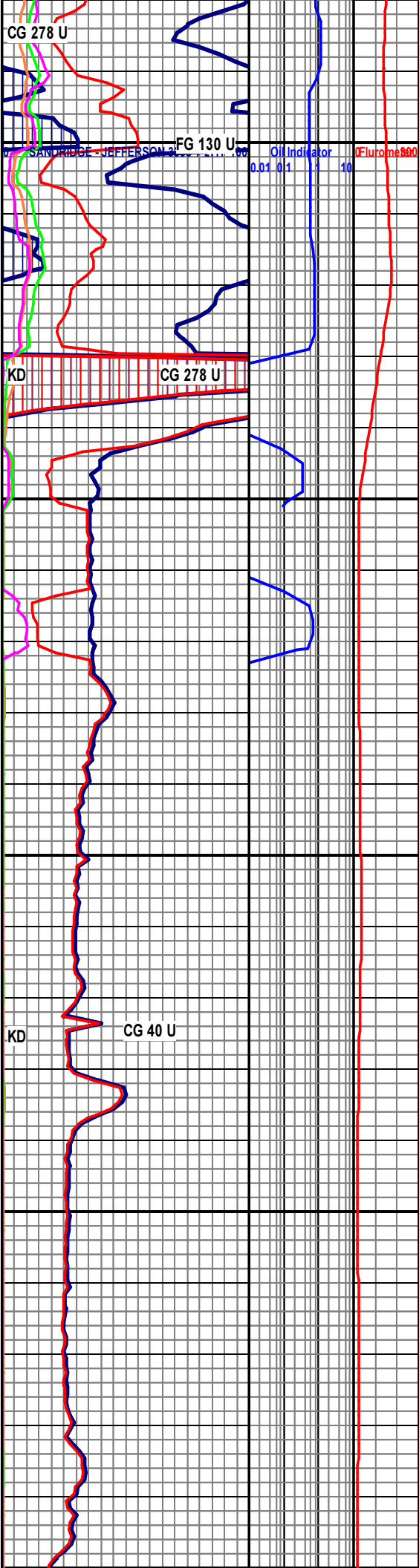
LS: PRED MED CRM, SCAT LT TAN, CRPXLN, V FN XLN TO MICO XLN, MSTLY BLKY, SUB ANG TO SUB RND, MOD FRM, ABUN SUC, VRY BRTL, SME HL FRAC POR, SCAT PP POR; CHRT: MSTLY OPQ OFF WHT TO WHT, SME LT CRM, SME TRNSL MLKY WHT, TR CLR, MSTLY MASS XLN, PRED BLKY, HRD, SME TRIPO; BRT YELSH GLD FLOR, GRNISH WHT CUT, YEL GRN RESD RNG,

LS: CRM TO LT TAN, V FN XLN TO MICO XLN, MSTLY BLKY, SUB ANG TO SUB RND, MOD FRM, ABUN SUC, BRTL, SME HL FRAC POR, SCAT PP POR; CHRT: OPQ OFF WHT TO WHT, SME LT CRM, TR CLR, MSTLY MASS XLN, PRED BLKY, HRD, SME TRIPO; BRT YEL FLOR, YEL WHT CUT, THNK GRN RESN RING,

MD 8082 TVD 4475.83
INC 92 AZ 359.9
VS 3932.88

MD 8177 TVD 4472.51
INC 92 AZ 0.1
VS 4027.76

WOB: 19.7



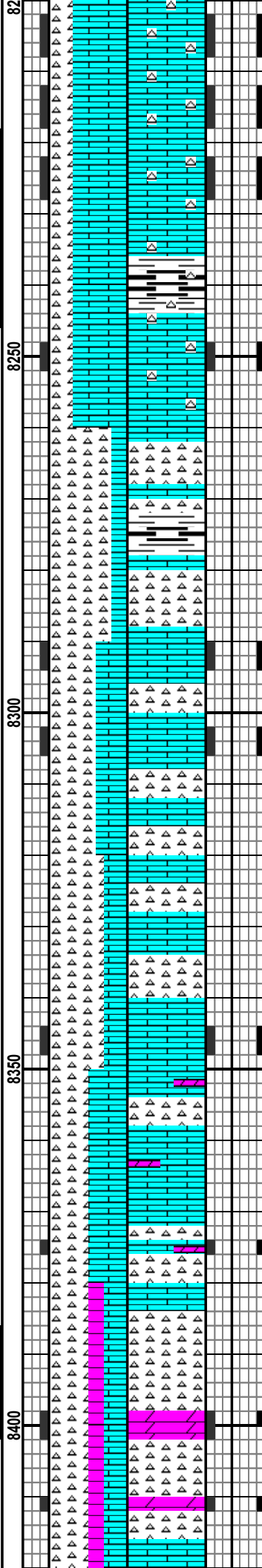
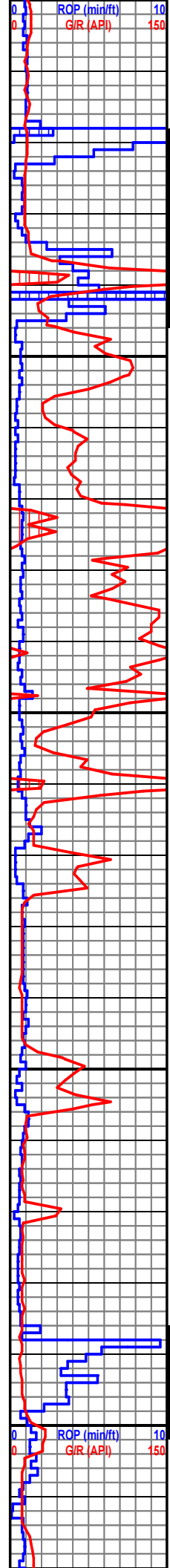
RPM: 59
SPM: 95
PSI: 2130

7/6/2013 @
8,240'

MD 8272 TVD 4469.69
INC 91.4 AZ 359.4
VS 4122.75

MD 8366 TVD 4467.23
INC 91.6 AZ 358.6
VS 4216.71

WOB: 19.1
RPM: 63
SPM: 0
PSI: 2131

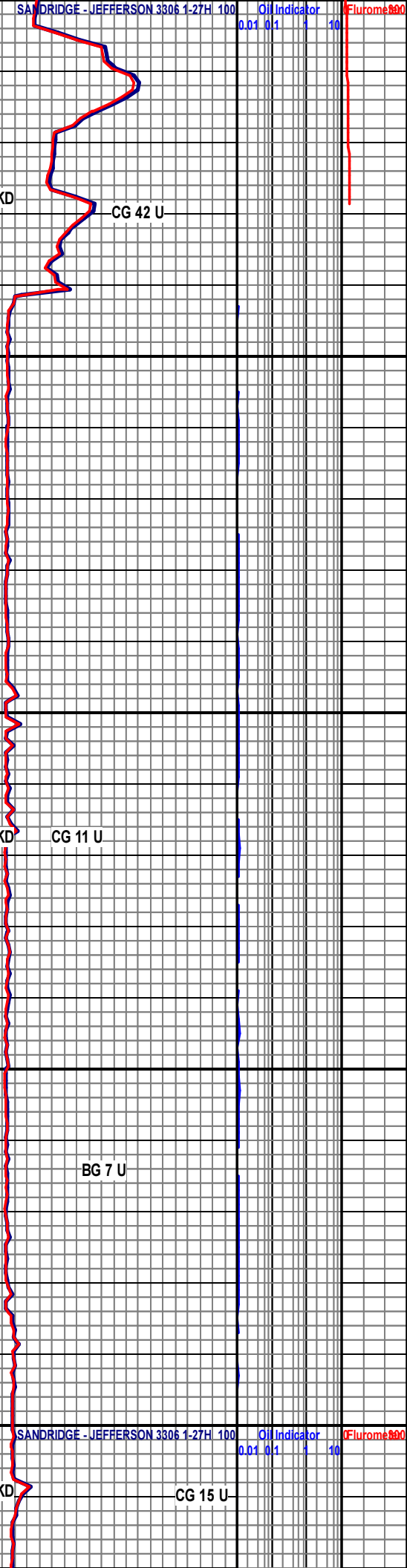


LS: MSTLY CRM TO LT TAN, V FN XLN TO MICO XLN, MSTLY BLKY, SUB ANG TO SUB RND, MOD FRM, ABUN SUC, BRTL, SME HL FRAC POR, SCAT PP POR; CHRT: OFF WHT TO WHT, SME LT CRM, TR CLR TO OPQ, PRED BLKY, HRD, SME TRIPO; PP YEL FLOR, NO VIS CUT, NO RESD RNG,

CHRT: MSTLY OFF WHT TO WHT, SME LT CRM TO LT GRY, PRED BLKY, HRD, TR TRIPO, LS: PRED CRM TO LT TAN, SME LT GRY TO WHT, V FN XLN TO MICO XLN, BLKY, SUB ANG TO SUB RND, MOD FRM, ABUN SUC, BRTL, SME HL FRAC POR, SCAT PP POR; PP YEL ORNG FLOR, NO VIS CUT, NO RESD RNG,

SIDEWINDER CHEMICAL ADDED

CHRT: MSTLY OPQ WHT, SME OFF WHT, SCAT TRNSL MLKY WHT, TR CLR, TR ASPH, MSTLY MASS XLN, BLKY, SUB ANG - SUB RND, VRY FRM - HRD, TR TRIP; LS: PRED OFF WHT - LT CRM, MSTLY CRPXLN, BLKY, FRM, VRY BRTL, SME SUC, TR PP POR; DOL - MSTLY LT CRM

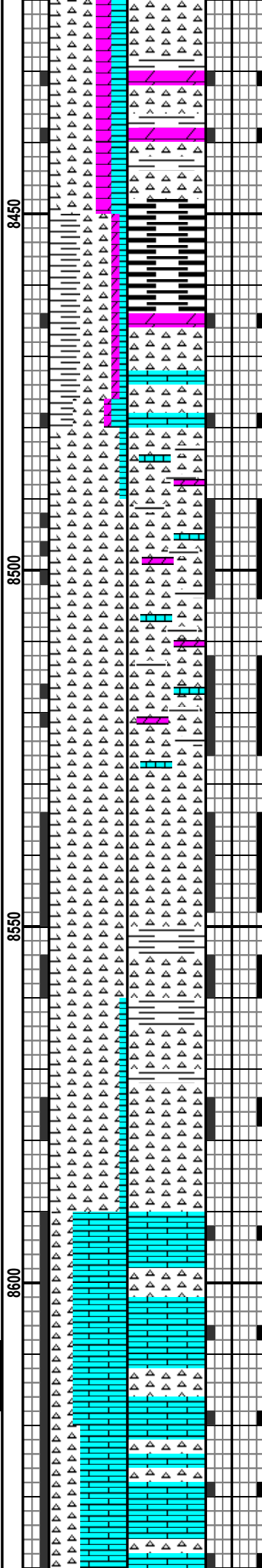
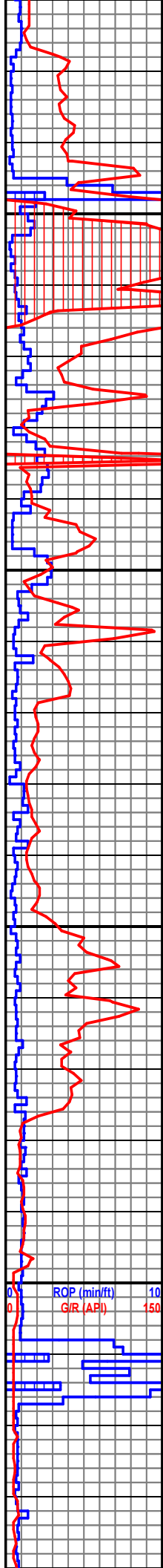


MD 8462 TVD 4466.06
INC 89.8 AZ 359.3
VS 4312.65

MD 8493 TVD 4466.09
INC 90.1 AZ 359.5
VS 4343.69

MD 8557 TVD 4466.2
INC 89.7 AZ 358.4
VS 4407.65

WOB: 19.5
RPM: 51
SPM: 90
PSI: 2097

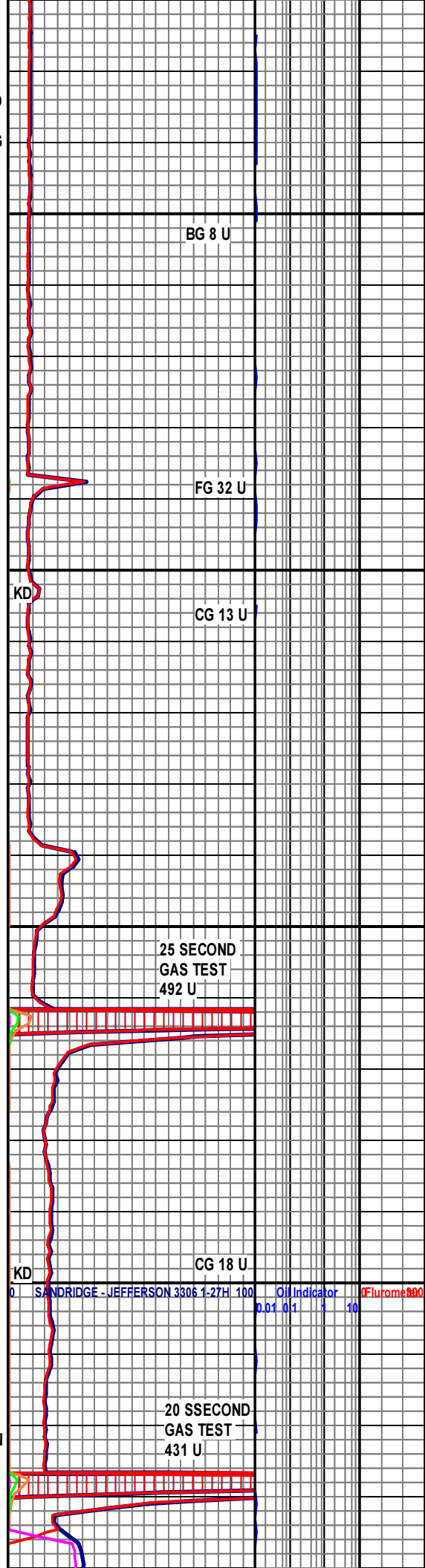


TR PP POR; DOL; MSTLY LT CRM,
FN XLN TXT, MSTLY CHNKY, SUB
RND, MOD FRM, VRY BRTL; SH:
MSTLY MOT LT GRY - MED GRY, TR
DRK GRY, TR BLK CARB, MSTLY
BLKY, SME FISL/FLKY, MSTLY MOD
FRM, BRTL; TR YEL FLOR, VRY
SLW PR GRNSH CUT, NO RES RING

CHRT: PRED OPQ WHT, SCAT LT
CRM, SCAT TRNSL MLKY WHT - LT
CRM, TR CLR, TR ASPH, MSTLY
MASS XLN, PRED SUB ANG - SUB
RND, TR ANG, HRD, SCAT BRTL;
SH: PRED MOT LT GRY - BLK,
SCAT BLK CARB, MSTLY BLKY,
SME FLKY/FISL, MSTLY FRM,
BRTL; TR DOL/LS; SCAT YEL
FLUOR, SLW PR GRNSH CUT, NO
RES RING

MUD CK @8,599'
MW: 9.10
FV: 38
PV: 10
YP: 8
GEL: 5 / 11
API: 6.0
CAKE: 1 / 32
SOL: 5.0%
WAT: 95.0%
PH: 9.5
FA: 0.2 / 0.7
CHL: 3200
HARD: 120

LS: PRED OFF WHT - LT CRM, TR
LT TAN STNG, MSTLY CRPXLN,
SME VFN MIC XLN, ABUN BLKY,
SME CHNKY, TR PLTY, PRED SUB
ANG - SUB RND, MSTLY FRM, ABUN
BRTL, SCAT SUC, SME HL FRAC
POR, TR PP POR; CHRT: SME OPQ
WHT - OFF WHT, SME TRNSL MLKY
WHT - CRL, TR ASPH, MSTLY SUB
ANG, HRD - VRY HRD, TR BRTL; TR
DOL; TR YELSH FLUOR, VRY SLW



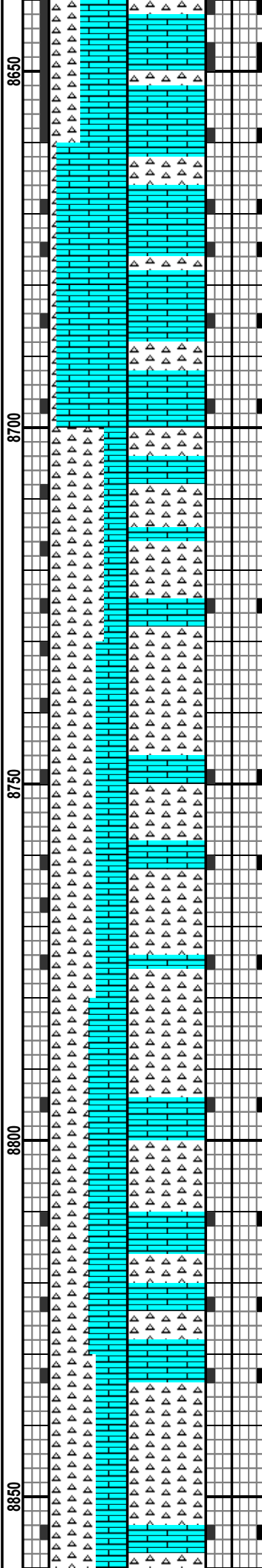
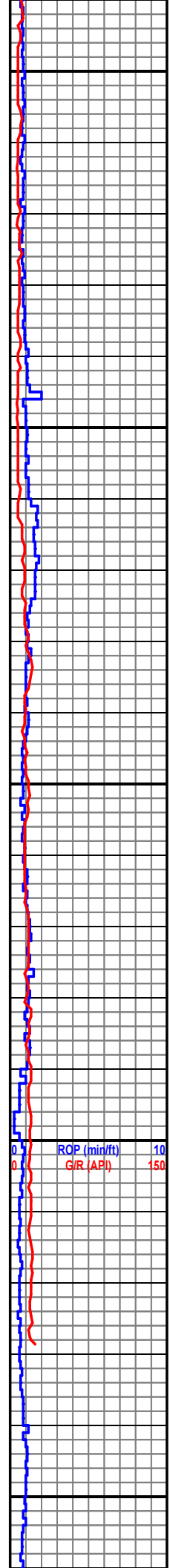
SANDRIDGE - JEFFERSON 3306 1-27H 100
Oil Indicator
Fluorine

MD 8652 TVD 4465.62
INC 91 AZ 358.8
VS 4502.68

MD 8747 TVD 4463.8
INC 91.2 AZ 358.1
VS 4597.68

WOB: 19.5
RPM: 61
SPM: 95
PSI: 2286

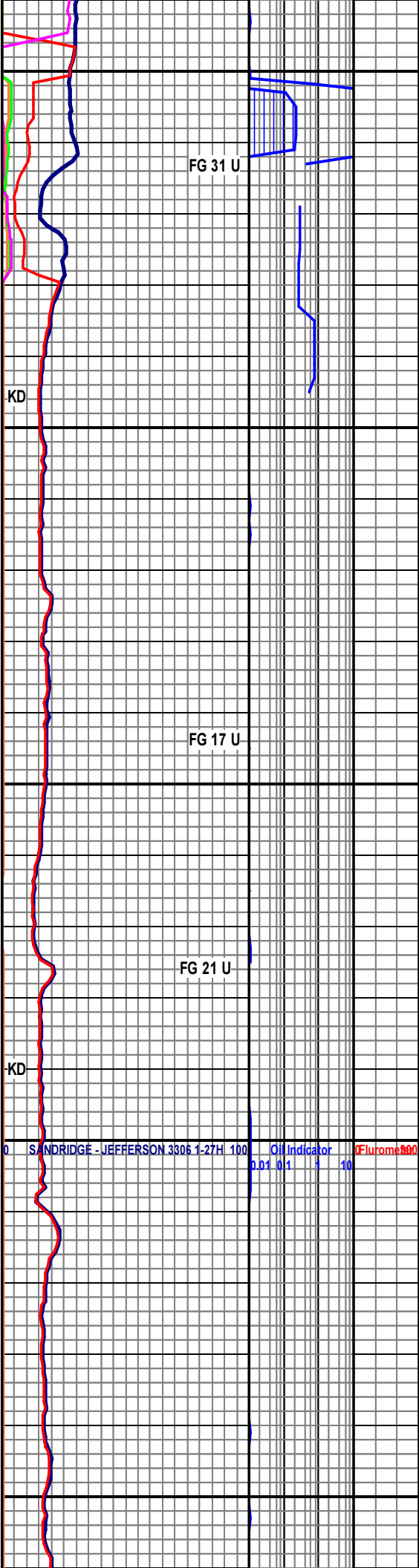
MD 8819 TVD 4462.92
INC 90.2 AZ 357.2
VS 4669.62



PR MLKY CUT, NO VIS RES RING

CHRT: SME OPQ WHT - OFF WHT,
SME TRNSL MLKY WHT - CRL,
ABUN SPIC INCL, TR ASPH, MSTLY
SUB ANG, HRD - VRY HRD, TR
BRTL; LS: PRED OFF WHT - LT
CRM, TR LT TAN STNG, MSTLY
CRPXLN, SME VFN MIC XLN, ABUN
BLKY, SME CHNKY, TR PLTY, PRED
SUB ANG - SUB RND, MSTLY FRM,
ABUN BRTL, SCAT SUC, SME HL
FRAC POR, TR PP POR; ; TR DOL;
TR YELSH FLUOR, VRY SLW PR
MLKY CUT, NO VIS RES RING

CHRT: SME OPQ WHT TO OFF WHT,
SME TRNSL MLKY WHT TO CRL,
ABUN SPIC INCL, TR ASPH, MSTLY
SUB ANG, HRD TO VRY HRD, TR
BRTL; LS: MSTLY OFF WHT TO LT
CRM, TR LT TAN STNG, MSTLY
CRPXLN, SME V FN MICO XLN,
ABUN BLKY, CHNKY, TR PLTY,
PRED SUB ANG TO SUB RND,
MSTLY FRM, ABUN BRTL, SCAT
SUC, SME HL FRAC POR, TR PP
POR; TR DOL; TR YEL FLOR, VRY
WK MLKY CUT, NO VIS RES RING,



SANDRIDGE - JEFFERSON 3306 1-27H 100
Oil Indicator 0.01 0.1 1 10
Fluorine 800

MD 8865 TVD 4462.76
INC 90.2 AZ 357.2
VS 4715.64

GAMMA/ROP

8900

**DRILLER'S TD @ 8,865
ON 7/6/13**

**SANDRIDGE ENERGY
JEFFERSON 3506 1-27H;
200' FNL & 1,245' FWL
SEC 27; T33S R6W
HARPER CO., KS**

GR 1,288' KB 1,306'

GAS

**iBall Instruments 0560
Attenuation 60%
FLUOROMETER L3**