



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: 4J RANCH 3408 1-33H
Location: SECTION 33, T34S, R8W, HARPER COUNTY, KANSAS
License Number: 1507721906 Region:
Spud Date: 2/15/2013 Drilling Completed: 2/27/2013
Surface Coordinates: 200' FSL & 1,980' FEL of Section 33, T34S, R8W
Bottom Hole 330'FNL & 1,980' FEL of Section 33, T34S, R8W
Coordinates:
Ground Elevation (ft): 1246 K.B. Elevation (ft): 1264
Logged Interval (ft): 3400 To: 9138 Total Depth (ft): 9138
Formation: MISSISSIPPI
Type of Drilling Fluid: WATER/GEL

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

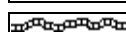
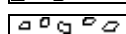
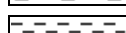
Cores

DSTs

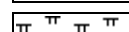
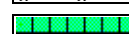
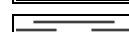
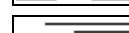
Comments

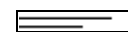
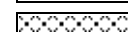
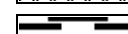
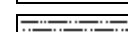
Logged By: Kris Carroll / Charles Minyard

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

- E Earthy
- Fenest
- F Fracture
- ⊗ Inter
- ⊠ Moldic
- Organic
- P Pinpoint
- ▽ Vuggy
- New symbol

- New symbol
- Sndylm
- New symbol

- SORTING
- W Well
 - M Moderate
 - P Poor

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

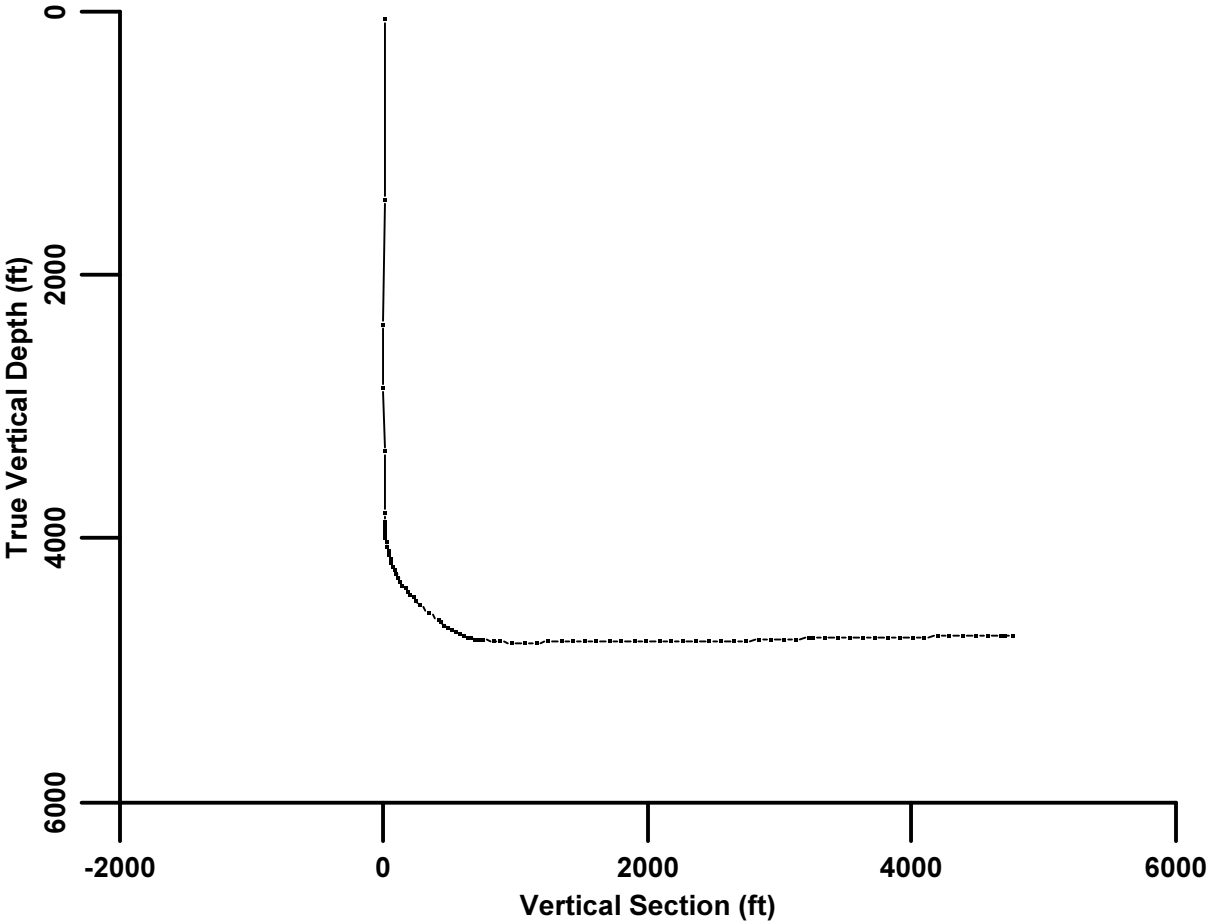
- OIL SHOW
- Even
 - ◐ Spotted
 - Ques

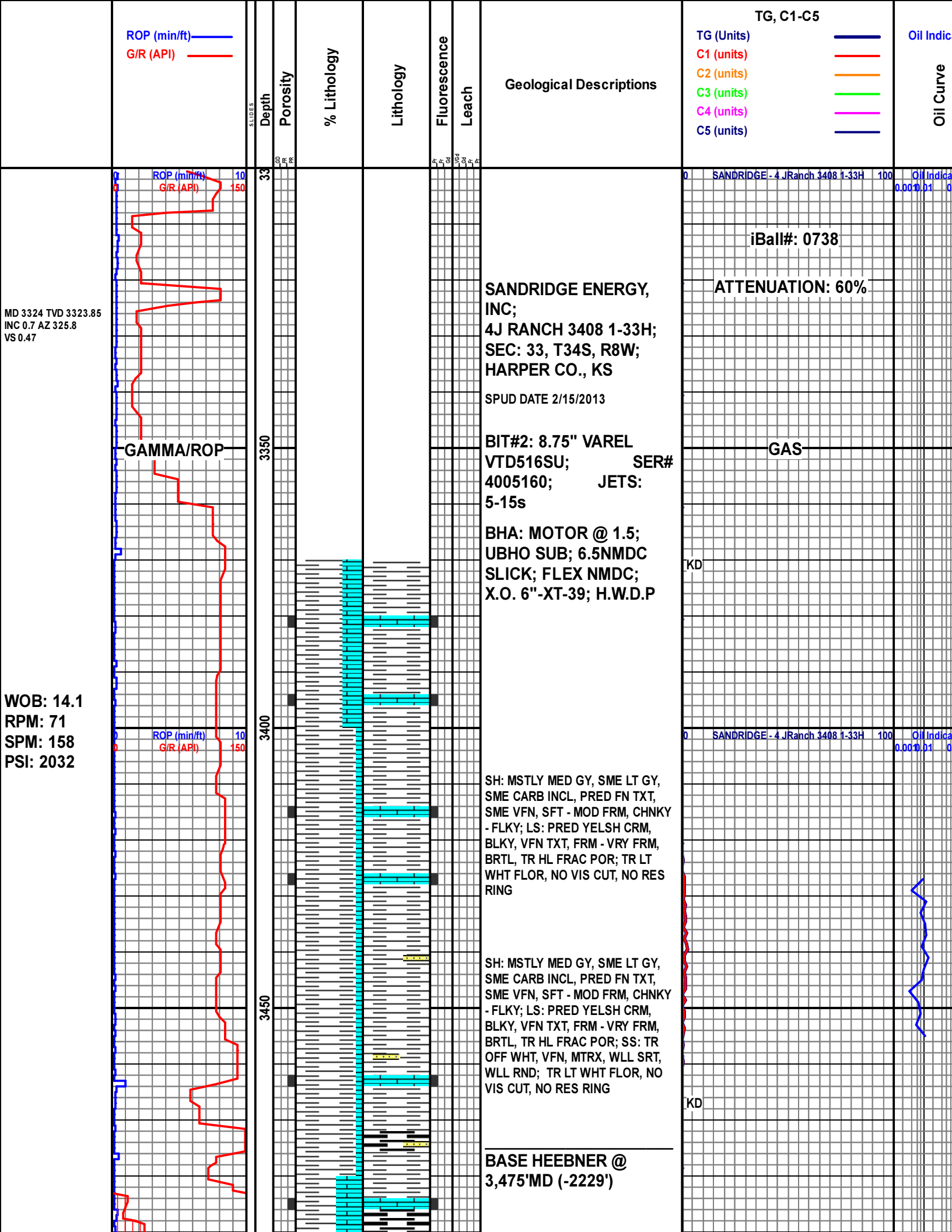
- ◻ Dead

- INTERVAL
- Core
 - ◻ Dst

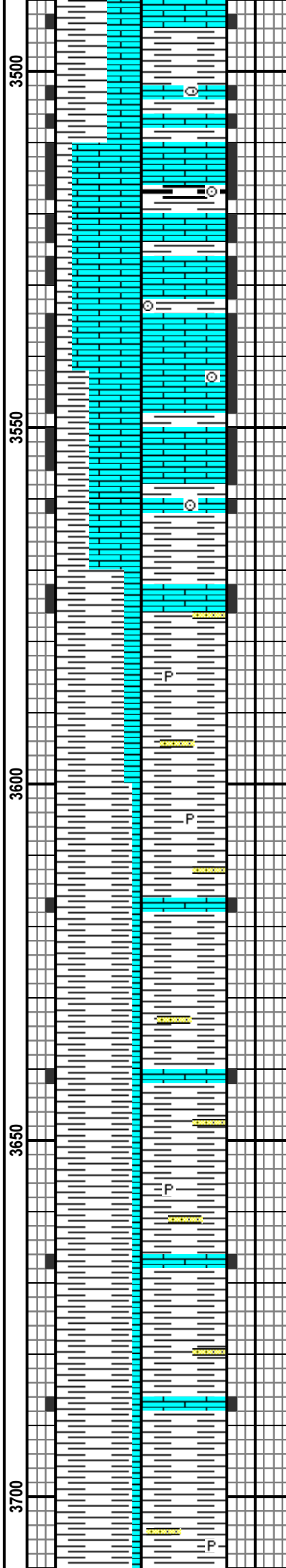
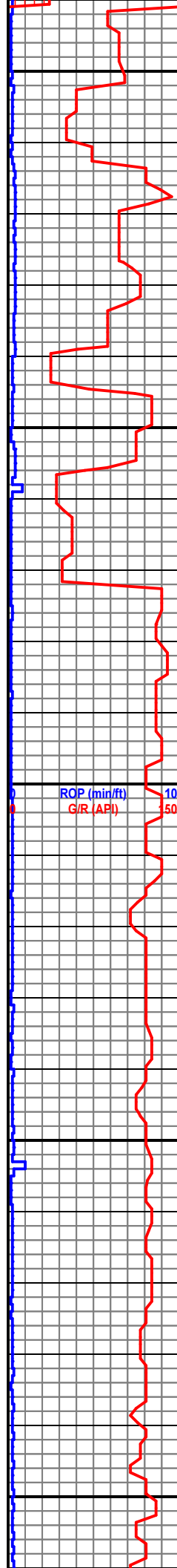
- EVENT
- ◻ Rft
 - ◼ Sidewall

Elevation





WOB: 13.9
RPM: 69
SPM: 117
PSI: 1855



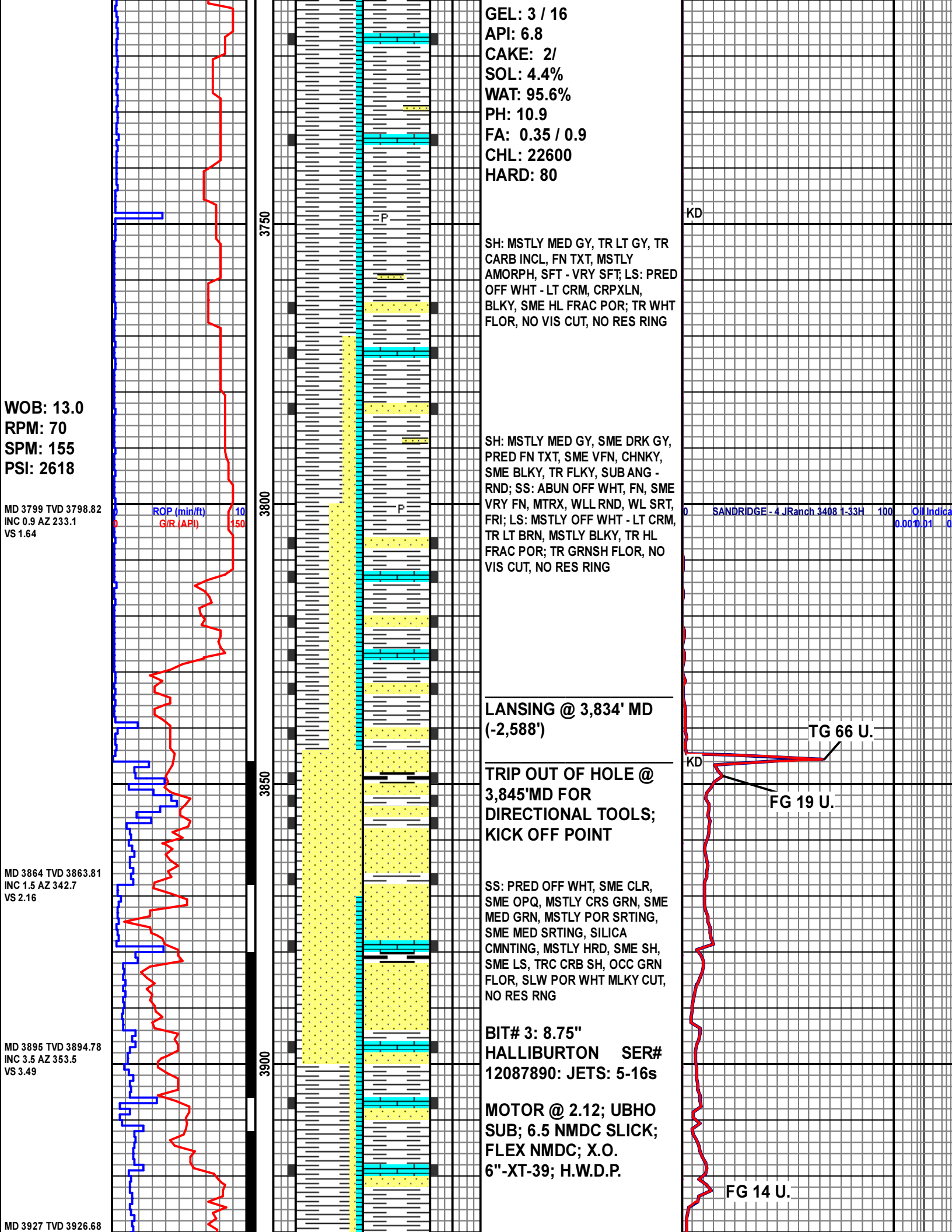
LS: PRED CRM, SME LT TAN, TR BRNSH, PRED VFN - CRPXLN, BLKY, FRM, SCAT CRIN FOS, POSS OSTR FOS; SH: MSTLY MED GY, TR CARB INCL, FN TXT, MSTLY CHNKY, SFT; TR YELSH WHT FLOR, NO VIS CUT, NO RES RING

SH: PRED DRK GY, SME MED GY, FN TXT, TR CARB INCL, PRED CHNKY, MOD SFT; LS: OFF WHT - LT TAN, MSTLY CRPXLN, BLKY, TR HL FRAC, FRM; SS: TR, OFF WHT, FN GRN, WLL SRT, MOD WL RND, MTRX; TR GRNSH FLOR, NO VIS CUT, NO RES RING

SH: MSTLY MED GY, TR LT GY, TR CARB INCL, FN TXT, MSTLY AMORPH, SFT - VRY SFT; LS: PRED OFF WHT - LT CRM, CRPXLN, BLKY, SME HL FRAC POR; TR WHT FLOR, NO VIS CUT, NO RES RING

MUD CK @3,845'
MW: 9.10
FV: 39
PV: 10
YP: 13





GEL: 3 / 16
API: 6.8
CAKE: 2/
SOL: 4.4%
WAT: 95.6%
PH: 10.9
FA: 0.35 / 0.9
CHL: 22600
HARD: 80

SH: MSTLY MED GY, TR LT GY, TR CARB INCL, FN TXT, MSTLY AMORPH, SFT - VRY SFT; LS: PRED OFF WHT - LT CRM, CRPXLN, BLKY, SME HL FRAC POR; TR WHT FLOR, NO VIS CUT, NO RES RING

SH: MSTLY MED GY, SME DRK GY, PRED FN TXT, SME VFN, CHNKY, SME BLKY, TR FLKY, SUB ANG - RND; SS: ABUN OFF WHT, FN, SME VRY FN, MTRX, WLL RND, WL SRT, FRI; LS: MSTLY OFF WHT - LT CRM, TR LT BRN, MSTLY BLKY, TR HL FRAC POR; TR GRNSH FLOR, NO VIS CUT, NO RES RING

LANSING @ 3,834' MD
(-2,588')

TRIP OUT OF HOLE @
3,845' MD FOR
DIRECTIONAL TOOLS;
KICK OFF POINT

SS: PRED OFF WHT, SME CLR, SME OPQ, MSTLY CRS GRN, SME MED GRN, MSTLY POR SRING, SME MED SRING, SILICA CMNTING, MSTLY HRD, SME SH, SME LS, TRC CRB SH, OCC GRN FLOR, SLW POR WHT MLKY CUT, NO RES RING

BIT# 3: 8.75"
HALLIBURTON SER#
12087890: JETS: 5-16s

MOTOR @ 2.12; UBHO
SUB; 6.5 NMDC SLICK;
FLEX NMDC; X.O.
6"-XT-39; H.W.D.P.

WOB: 13.0
RPM: 70
SPM: 155
PSI: 2618

MD 3799 TVD 3798.82
INC 0.9 AZ 233.1
VS 1.64

MD 3864 TVD 3863.81
INC 1.5 AZ 342.7
VS 2.16

MD 3895 TVD 3894.78
INC 3.5 AZ 353.5
VS 3.49

MD 3927 TVD 3926.68

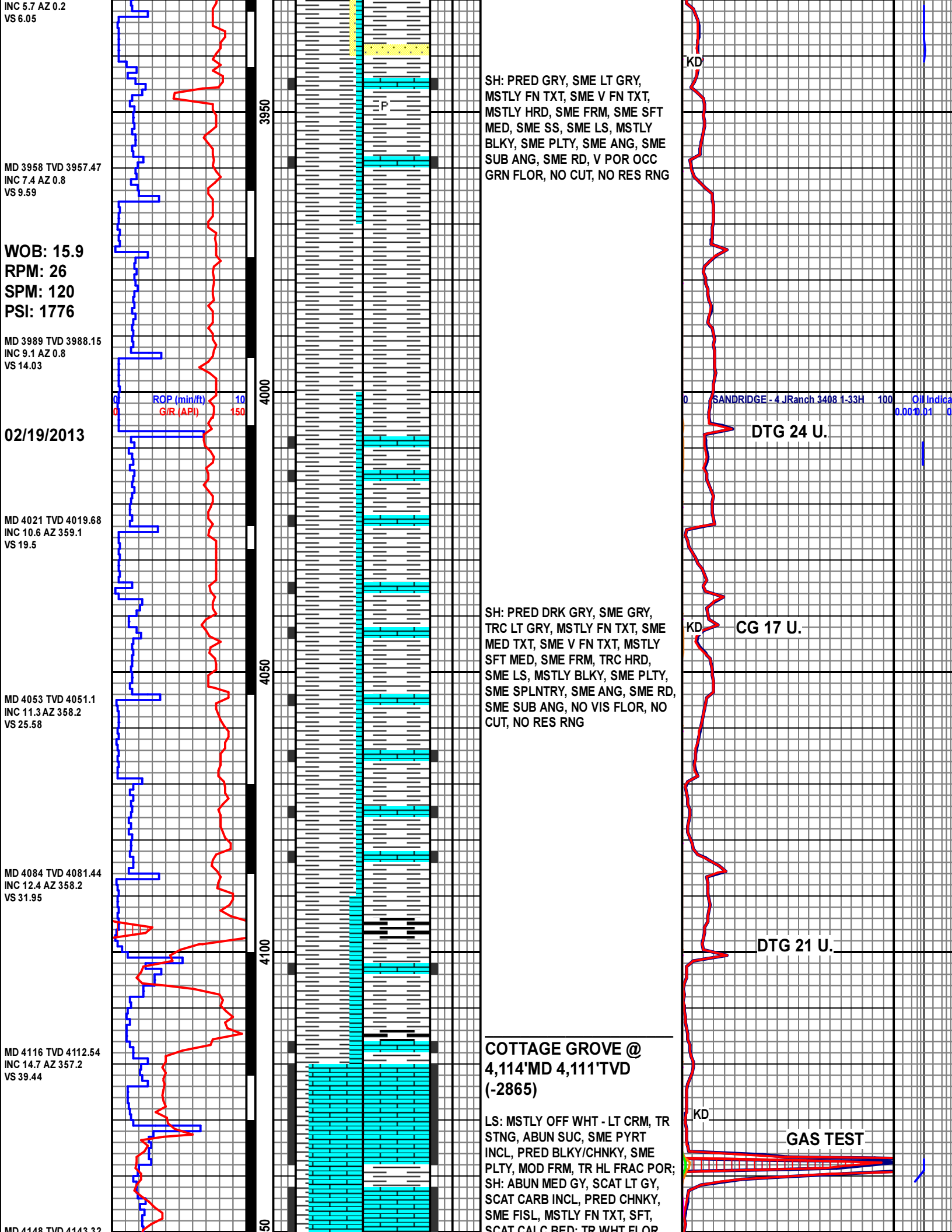
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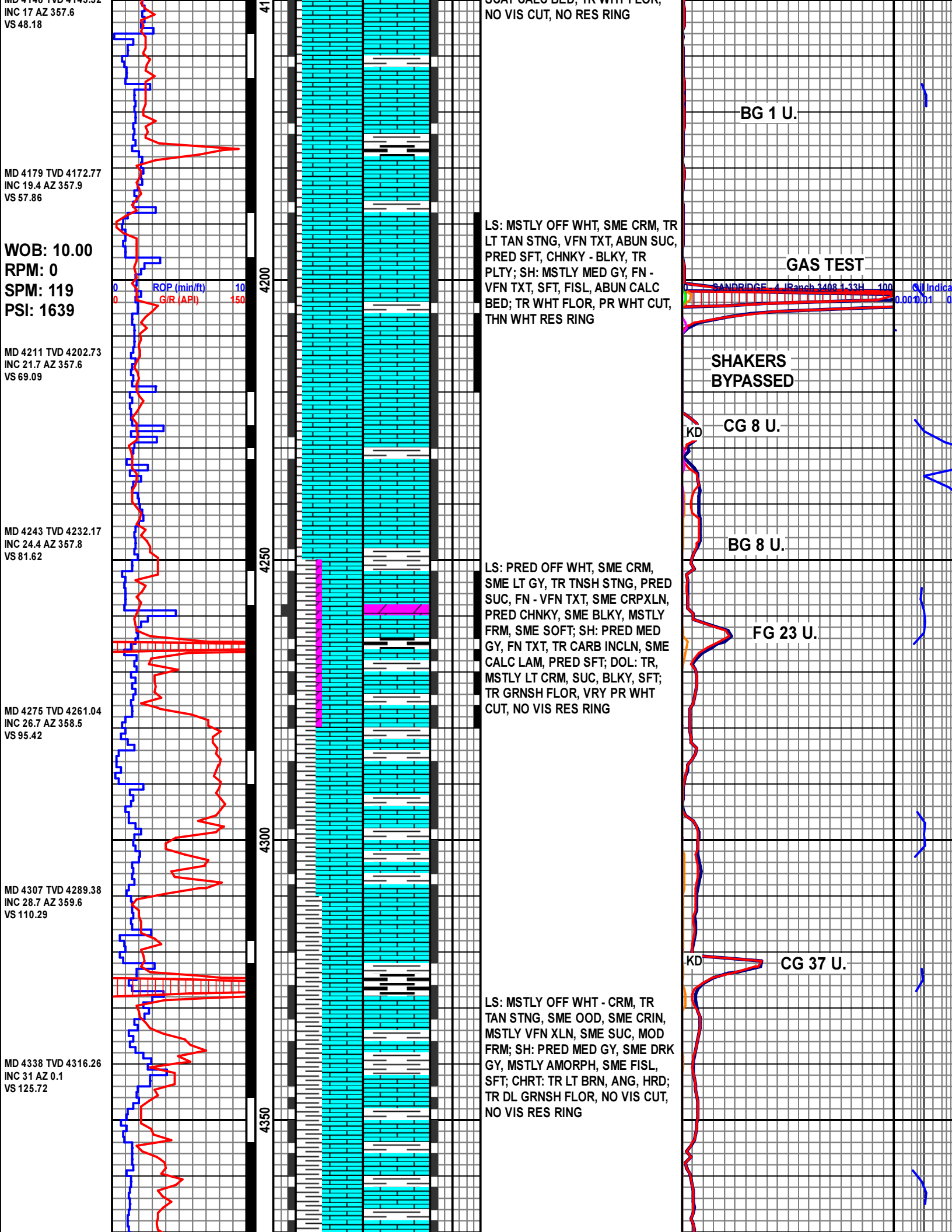
SANDRIDGE - 4 JRanch 3408 1-33H 100 Oil Indica 0.001 0.01 0

TG 66 U.

FG 19 U.

FG 14 U.





MD 4370 TVD 4343.38
INC 33.1 AZ 0
VS 142.69

WOB: 11.1
RPM: 0
SPM: 121
PSI: 1576

MD 4402 TVD 4369.8
INC 35.6 AZ 359.4
VS 160.74

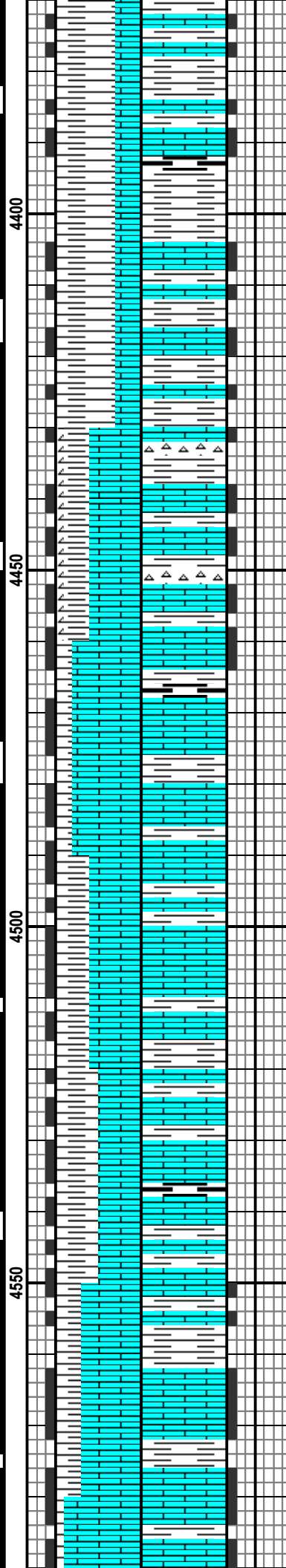
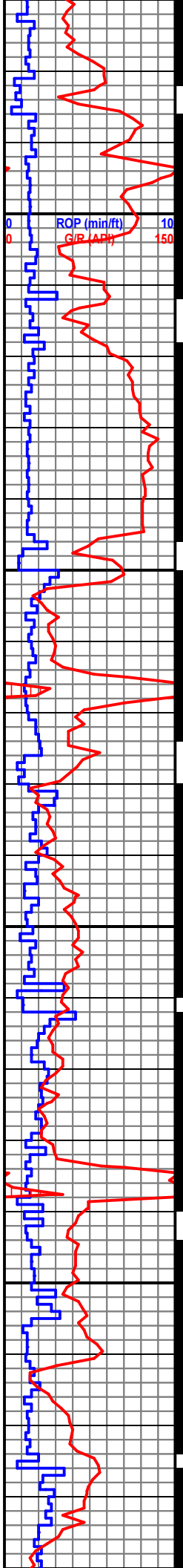
MD 4433 TVD 4394.64
INC 37.9 AZ 358.4
VS 179.29

MD 4465 TVD 4419.49
INC 40.2 AZ 358.7
VS 199.45

MD 4496 TVD 4442.79
INC 42.3 AZ 359
VS 219.88

MD 4528 TVD 4465.85
INC 45.5 AZ 359
VS 242.07

MD 4560 TVD 4487.71
INC 48.3 AZ 358.9
VS 265.43



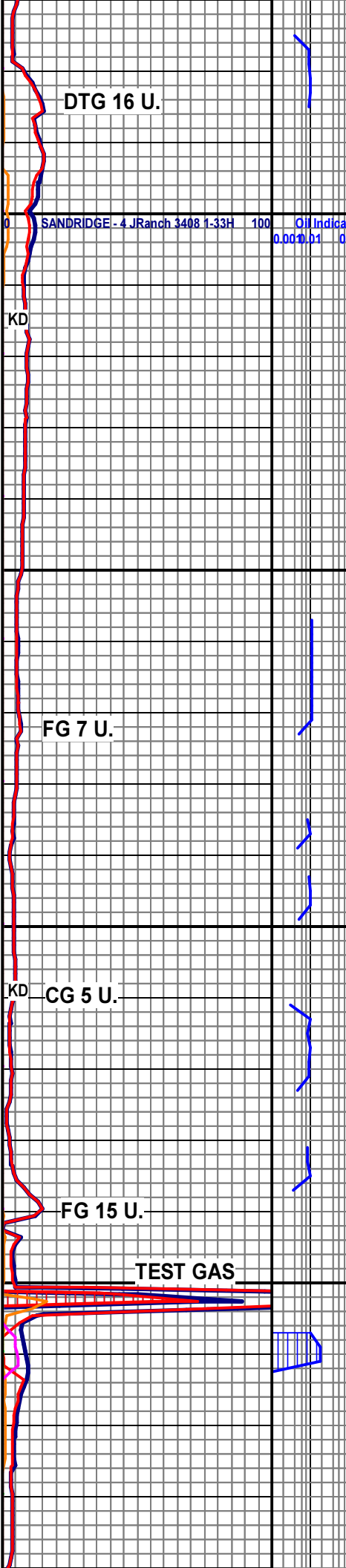
SH: MSTLY DRK GRY, TR CARB FN -
VFN TXT, ABUN FIS/FLKY, SME
CHNKY, SFT - MOD FRM; LS: PRED
CRM, TR LT TAN STNG, PRED
BLKY, TR HL FRAC POR, ABUN
SUC; TR DL GRNSH FLOR, NO VIS
CUT, NO RES RNG

LS: PRED TN, SME OFF WHT, SME
WHT, SME CRM, MSTLY V FN XTLN,
SME FN XTLN, TRC MED XTLN,
MSTLY FRM, SME HRD, SME SH,
SME CHRT, SME HL FRAC, TRC V
POR YEL FLOR, NO CUT, NO RES
RNG

OSWEGO @ 4,466' MD
4,420' TVD (-3,220')

LS: PRED CRM, SME TN, SME OFF
WHT, MSTLY MED XTLN, SME FN
XTLN, MSTLY FRM, SME HRD, SME
SH, MSTLY BLKY, SME PLTY, NO
VIS FLOR, NO CUT, NO RES RNG

LS: PRED TN, SME CRM, SME OFF
WHT, MSTLY MED XTLN, SME FN
XTLN, MSTLY FRM, TRC HRD, SME
SH, MSTLY BLKY, SME PLTY, TRC
SPLNTRY, V POR YEL FLOR, NO
CUT, NO RES RNG



WOB: 18.3
RPM: 27
SPM: 116
PSI: 1640

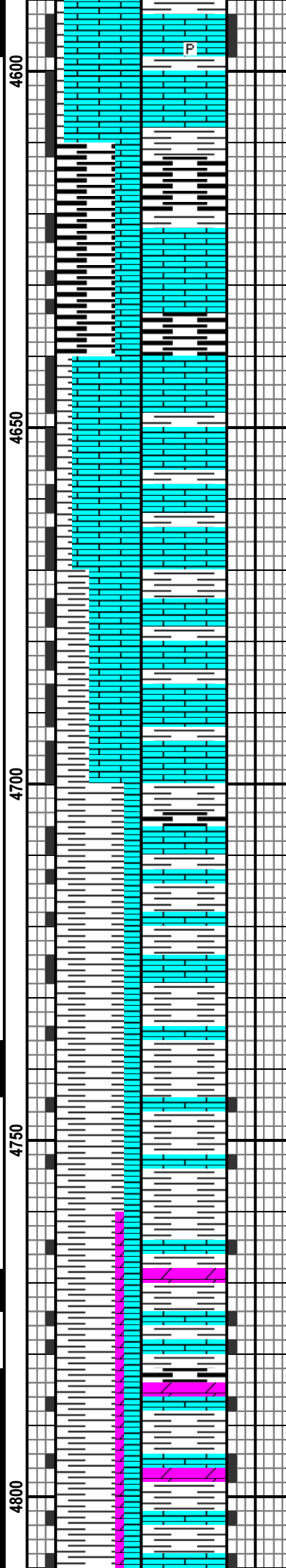
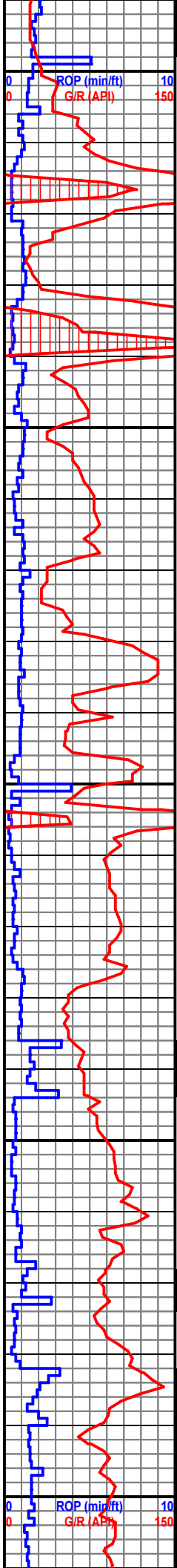
MD 4656 TVD 4549.92
INC 50.9 AZ 357.7
VS 338.53

2/20/2013

MD 4751 TVD 4610.67
INC 49.6 AZ 356.9
VS 411.55

MD 4783 TVD 4631.22
INC 50.5 AZ 356.8
VS 436.08

WOB: 9.6
RPM: 0
SPM: 121
PSI: 1676



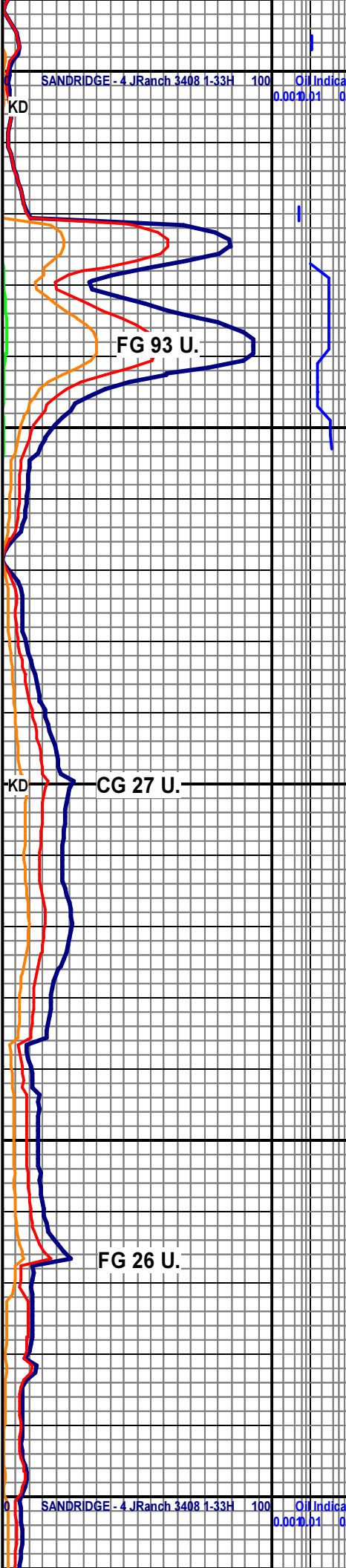
**CHEROKEE @ 4,616' MD
4,525' TVD (-3,370')**

SH: PRED DRK GRY, MSTLY MED
TXT, SME FN TXT, MSTLY SFT MED,
SME FRM, ABND CRB SH, SME LS,
MSTLY BLKY, SME PLTY, SME
ANG, SME SUB ANG

**VERDIGRIS @ 4,673' MD
4,561' TVD (-3,427')**

SH: PRED GRY, SME LT GRY, SME
DRK GRY, TRC RD, MSTLY MED
TXT, SME FN TXT, MSTLY SFT MED,
SME FRM, SME LS, TRC CRB SH,
MSTLY BLKY, SME PLTY, SME
ANG, SME SUB ANG, TRC RD

SH: PRED GRY, SME DRK GRY,
SME LT GRY, TRC RD, MSTLY MED
TXT, SME FN TXT, MSTLY SFT MED,
SME FRM, SME LS, SME DOL, TRC
CRB SH, MSTLY BLKY, SME PLTY,
SME SUB ANG, SME ANG, TRC RD



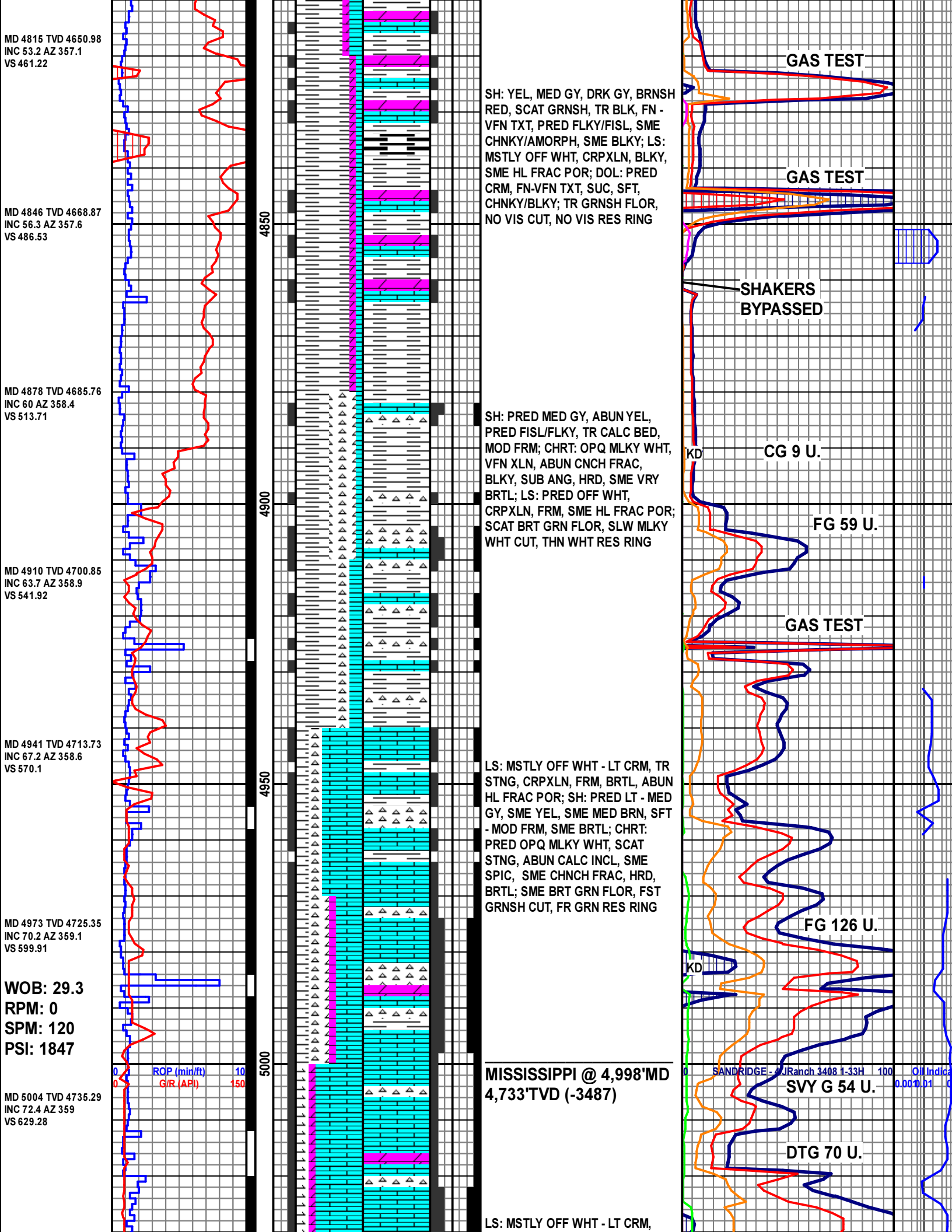
**CHEROKEE @ 4,616' MD
4,525' TVD (-3,370')**

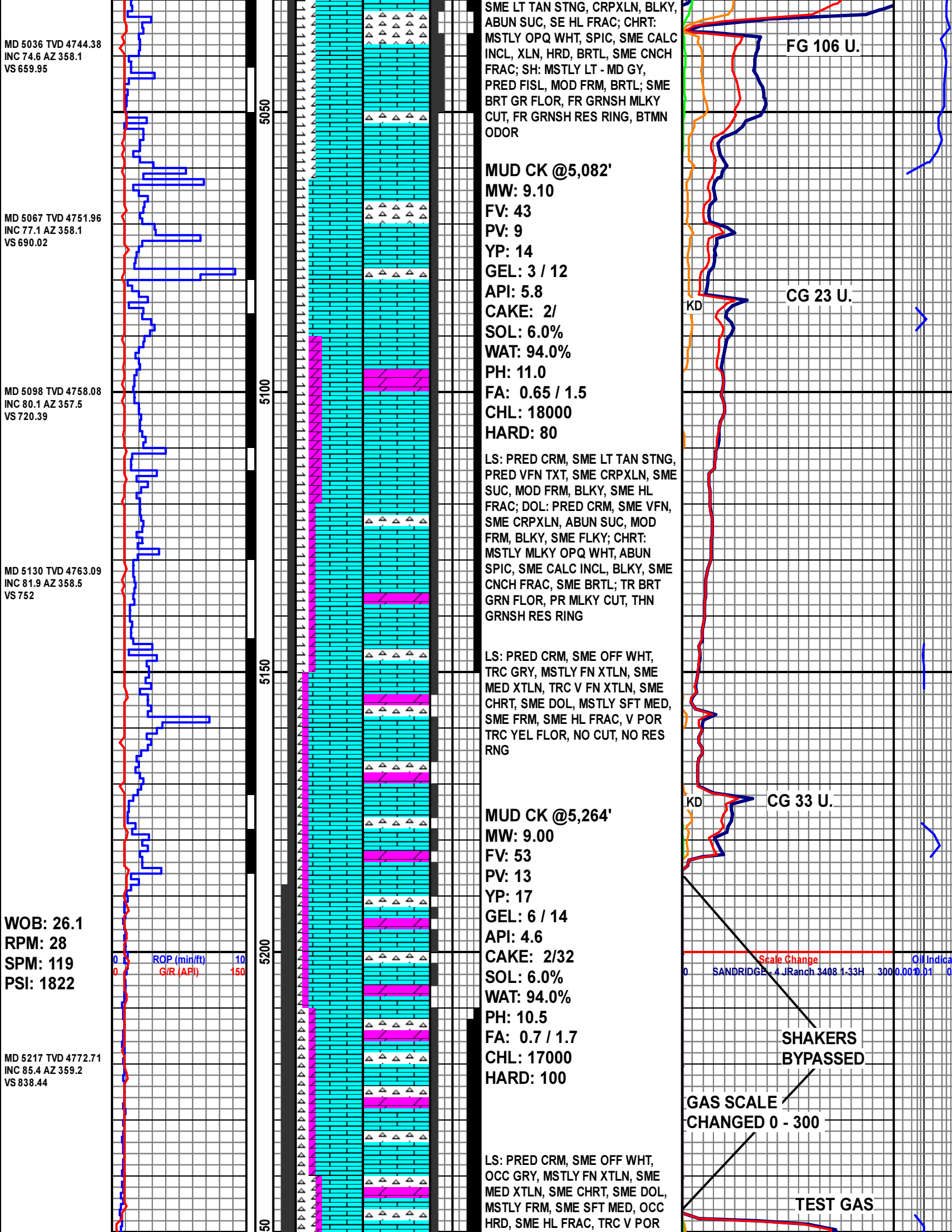
SH: PRED DRK GRY, MSTLY MED
TXT, SME FN TXT, MSTLY SFT MED,
SME FRM, ABND CRB SH, SME LS,
MSTLY BLKY, SME PLTY, SME
ANG, SME SUB ANG

**VERDIGRIS @ 4,673' MD
4,561' TVD (-3,427')**

SH: PRED GRY, SME LT GRY, SME
DRK GRY, TRC RD, MSTLY MED
TXT, SME FN TXT, MSTLY SFT MED,
SME FRM, SME LS, TRC CRB SH,
MSTLY BLKY, SME PLTY, SME
ANG, SME SUB ANG, TRC RD

SH: PRED GRY, SME DRK GRY,
SME LT GRY, TRC RD, MSTLY MED
TXT, SME FN TXT, MSTLY SFT MED,
SME FRM, SME LS, SME DOL, TRC
CRB SH, MSTLY BLKY, SME PLTY,
SME SUB ANG, SME ANG, TRC RD





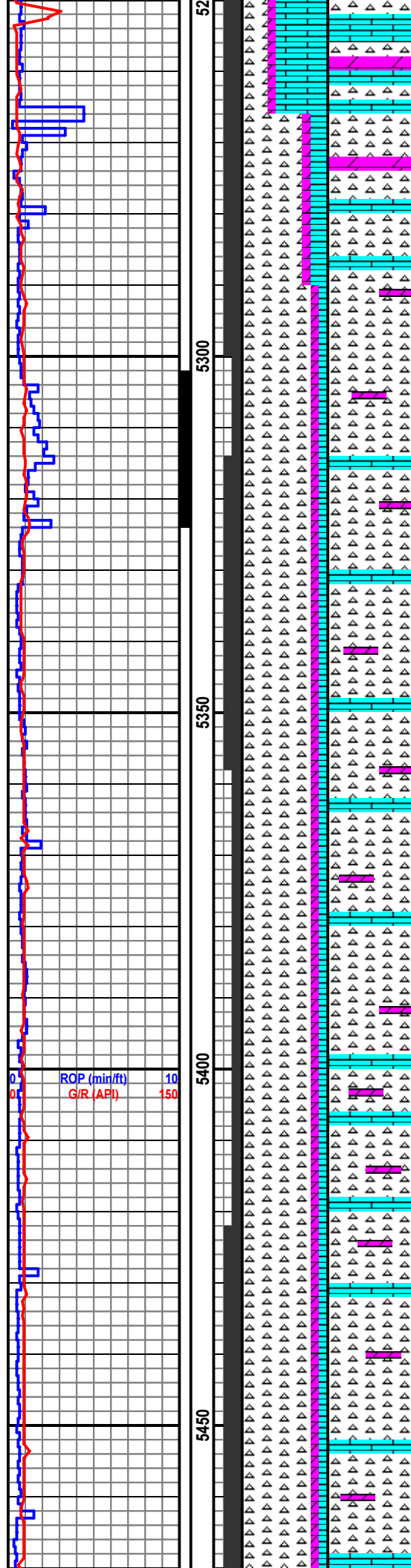
MD 5258 TVD 4775.93
INC 85.6 AZ 359.3
VS 879.33

2/23/2013

MD 5351 TVD 4780.31
INC 89 AZ 358.7
VS 972.19

WOB: 16.2
RPM: 64
SPM: 84
PSI: 1172

MD 5443 TVD 4781.27
INC 89.8 AZ 358.9
VS 1064.2



YEL FLOR, FR WHT MLKY CUT, FR
RES RNG

TOH FOR INTERMEDIATE
CASING @ 5,265' MD
4,777' TVD 02/20/2013

BIT# 4: HALLIBURTON
MMD64C;
SER#: 12171845;
JETS: 6-14s;

BHA: 1.5 BEND MOTOR;
UBHO SUB; NMDC; FLEX
NMDC; X-OVER

CHRT: PRED MLKY OFF WHT - LT
CRM, ABUN ASPH, SME LT TAN
STNG, ABUN CALC INCL, SME
SPIC, SUB RND - SUB ANG, ABUN
BRTL; LS: PRED OFF WHT - CRM,
MSTLY CRPXLN, SME SUC, FRM,
BRTL, ABUN HL FRAC POR; ABUN
BRT GRN FLOR, BRT GRN FLSH
CUT, THCK SPTY GRN RES RING;
STRNG BTMN ODOR

CHRT: PRED OPQ MLKY WHT,
ABUN ASPH, SME TAN STNG,
ABUN SPIC, MSTLY SUB ANG,
MSTLY VRY BRTL, SME CNCH
FRAC; LS: PRED OFF WHT - CRM,
CRPXLN, SME SUC, SME HL FRAC
POR, SME BRTL; ABUN BRT GRN
FLOR, VFST BRT GRN CUT, THK
GRN RES RING

MUD CK @5,484'

MW: 8.40

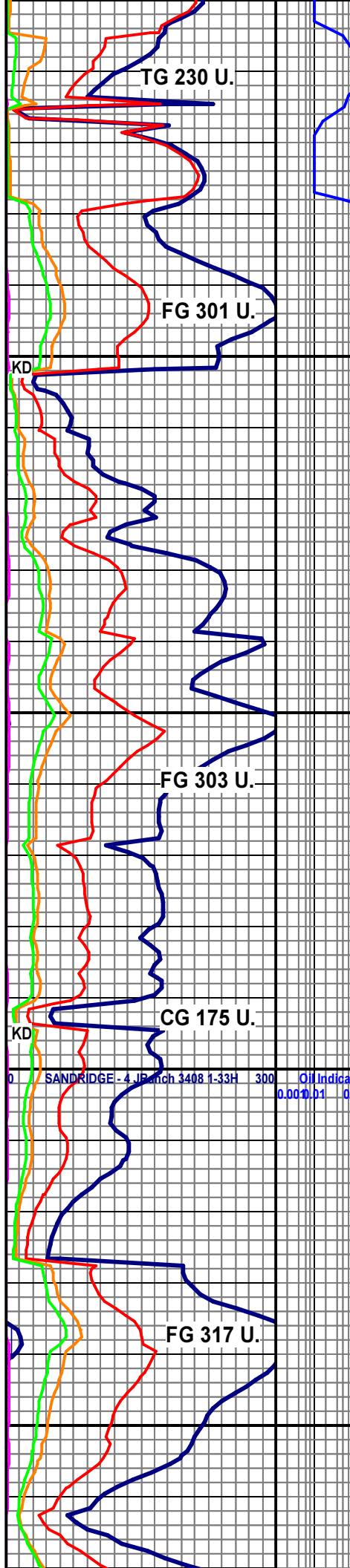
FV: 27

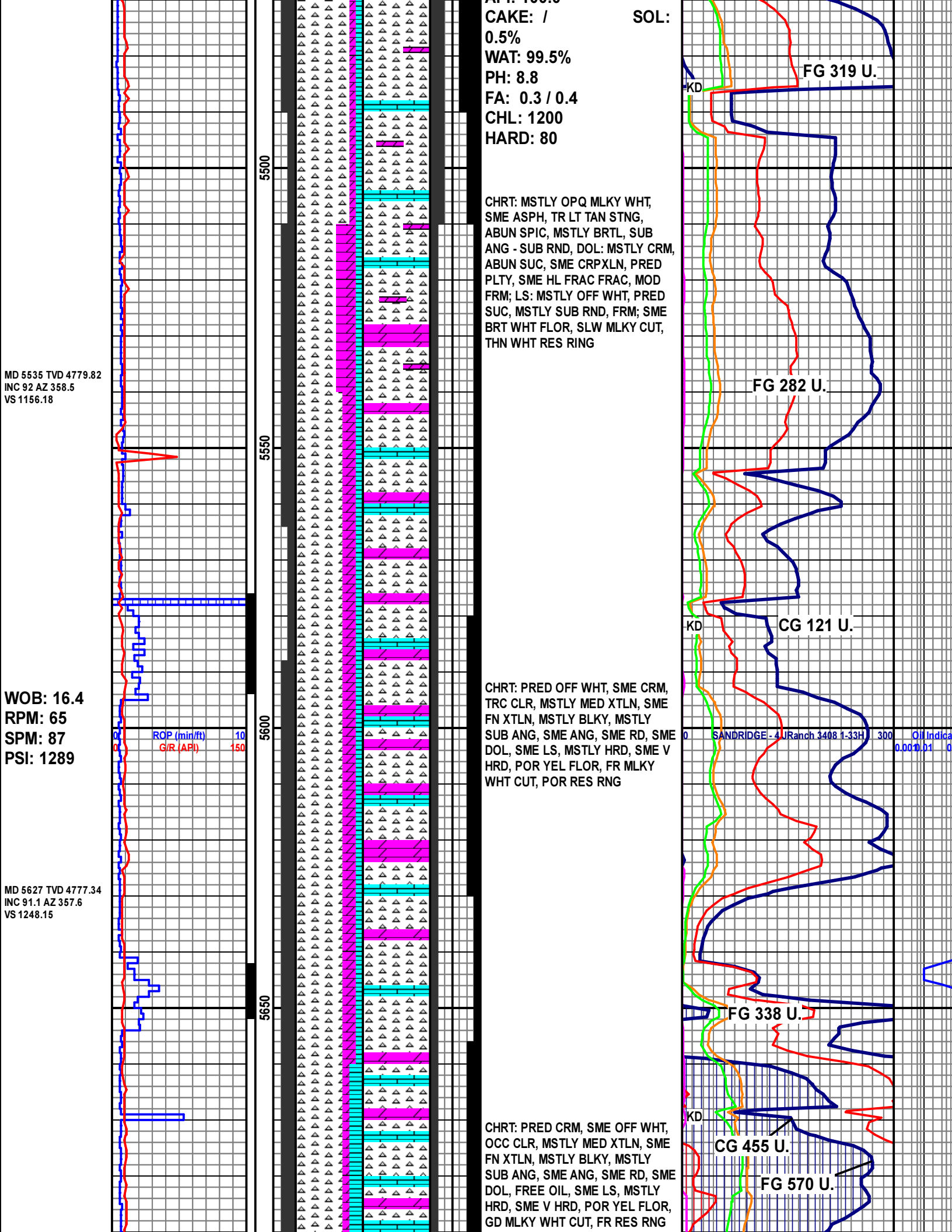
PV: 1

YP: 1

GEL: 1 / 1

API: 100.0



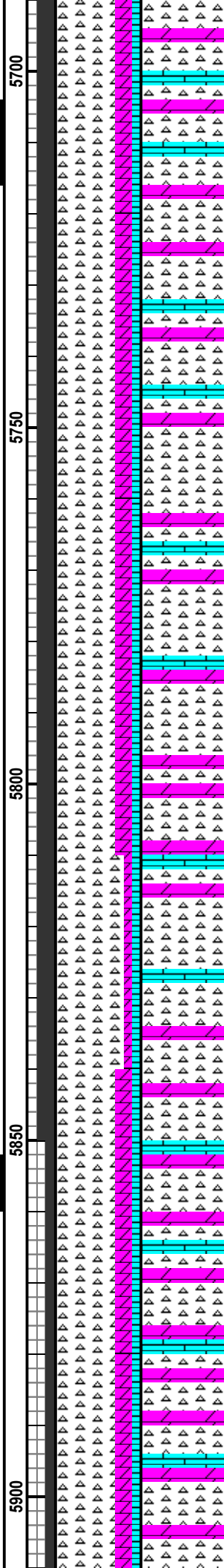
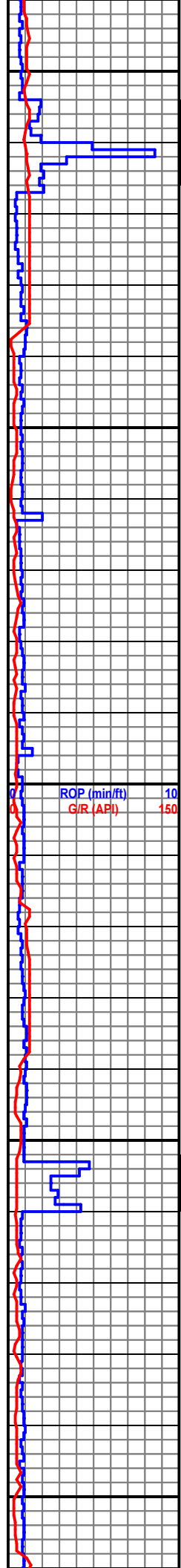


MD 5718 TVD 4776.78
INC 89.6 AZ 356.5
VS 1339.09

WOB: 15
RPM: 69
SPM: 76
PSI: 922

MD 5809 TVD 4777.02
INC 90.1 AZ 356.2
VS 1430.04

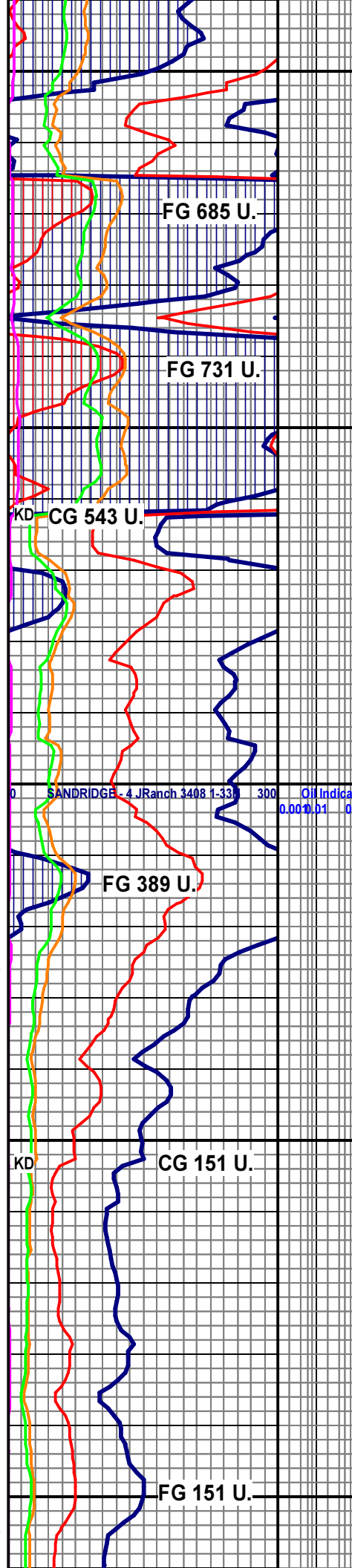
MD 5900 TVD 4776.78
INC 90.2 AZ 356.6
VS 1520.97



CHRT: PRED OFF WHT, SME CRM,
OCC CLR, MSTLY MED XTLN, SME
FN XTLN, MSTLY BLKY, MSTLY
SUB ANG, SME ANG, SME DOL,
FREE OIL, SME LS, MSTLY HRD,
SME V HRD, POR YEL FLOR, GD
MKLY WHT CUT, GD RES RNG

CHRT: PRED CRM, SME OFF WHT,
TRC CLR, MSTLY MED XTLN, SME
FN XTLN, MSTLY BLKY, MSTLY
SUB ANG, SME ANG, SME RD, SME
LS, SME DOL, MSTLY HRD, SME V
HRD, POR YEL FLOR, FR MLKY
WHT CUT, FR RES RNG

CHRT: PRED OFF WHT, SME CRM,
OCC CLR, MSTLY MED XTLN, SME
FN XTLN, MSTLY BLKY, MSTLY
SUB ANG, SME ANG, SME RD, SME
DOL, SME LS, MSTLY HRD, SME V
HRD, POR YEL FLOR, POR MLKY



FG 685 U.

FG 731 U.

KD CG 543 U.

SANDRIDGE - 4 J Ranch 3408 1-33 Oil Indica 0.001 0.01 0

FG 389 U.

KD CG 151 U.

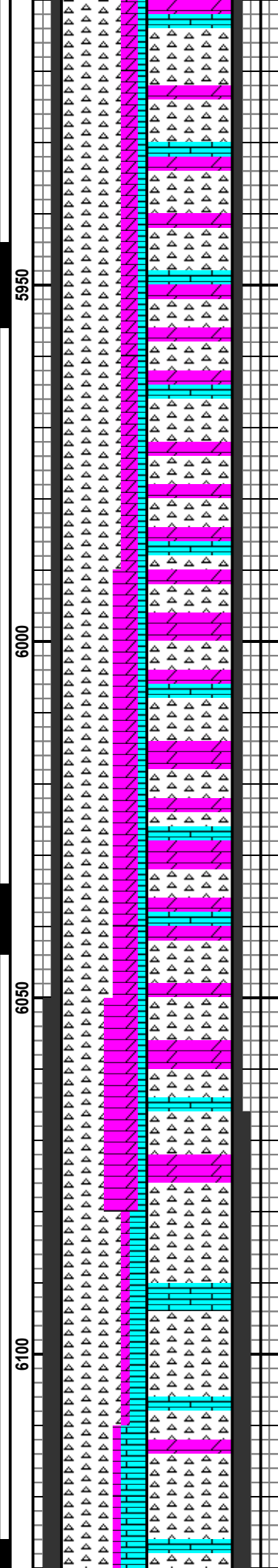
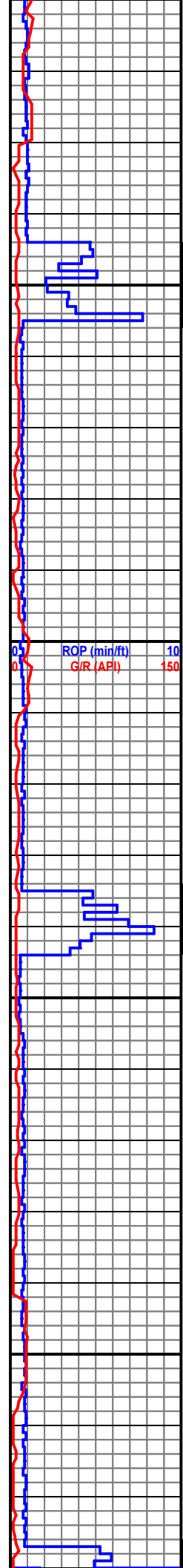
FG 151 U.

02/24/2013

MD 5992 TVD 4775.66
INC 91.2 AZ 358.7
VS 1612.95

WOB: 16.5
RPM: 71
SPM: 75
PSI: 1120

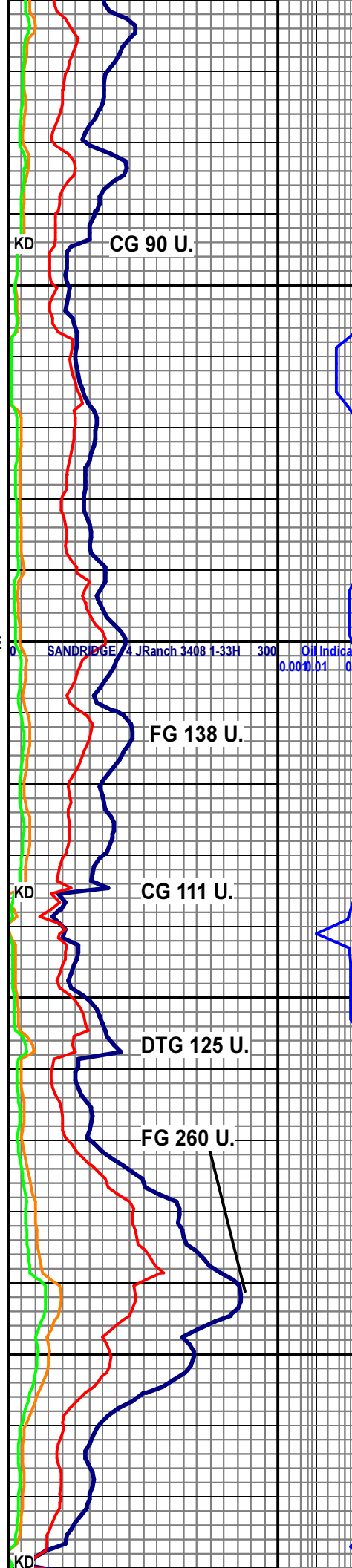
MD 6085 TVD 4773.55
INC 91.4 AZ 359.4
VS 1705.9



HRD, FOR FEE FLOR, FOR MENT
WHT CUT, NO RES RNG

CHRT: PRED CRM, SME OFF WHT,
TRC CLR, MSTLY MED XTLN, SME
FN XTLN, BLKY, MSTLY SUB ANG,
SME ANG, SME RD, SME DOL, SME
LS, TRC POR YEL FLOR, FR MLKY
WHT CUT, NO RES RNG

CHRT: PRED MLKY OPQ WHT, SME
ASPH, TR STNG, SME CALC INCL,
SME SPIC, PRED SUB RND, BRTL;
LS: MSTLY OFF WHT - LT CRM,
CRPXLN, FRM, BRTL, SCAT HL
FRAC POR; DOL: PRED LT CRM,
MSTLY FN TXT, SUC, MSTLY
CHNKY/BLKY, SME PLTY, MOD
FRM; SME BRT WHT FLOR, FST
MLKY CUT, BRT GRNSH RES RING



MD 6177 TVD 4771.94
INC 90.6 AZ 0
VS 1797.87

WOB: 12.8
RPM: 72
SPM: 76
PSI: 1173

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

MD 6272 TVD 4770.53
INC 91.1 AZ 359.6
VS 1892.84

6150

6200

6250

6300

50

LS: MSTLY OFF WHT, PRED
CRPXLN, SME FN TXT, SCAT SUC,
PRED SUB ANG - SUB RND, FRM,
BRTL, SME HL FRAC POR; DOL:
MSTLY LT CRM, TR LT TAN STNG,
PRED CRPXLN, SME HL FRAC
POR; CHRT: PRED OPQ MLKY
WHT, TR CALC INCL, TR SPIC,
PRED HRD, BRT, MSTLY BLKY, TR
PLTY, TR CNCH FRAC; SCAT WHT
FLOR, SLW PR CUT, THN GRNSH
RES RING

MUD CK @6,315'
MW: 8.40
FV: 27
PV: 1
YP: 1
GEL: 1 / 1
API: 100.0
CAKE: /
SOL: 0.5%
WAT: 99.5%
PH: 9.0
FA: /
CHL: 1200
HARD: 140

CHRT: PRED MLKY OPQ WHT, TR
ASPH, TR STNG, SME CALC INCL,
SME SPIC, PRED SUB RND, BRTL;
LS: MSTLY OFF WHT - LT CRM,
CRPXLN, FRM, BRTL, SCAT HL
FRAC POR; DOL: PRED LT CRM,
MSTLY FN TXT, SUC, MSTLY
CHNKY/BLKY, SME PLTY, MOD
FRM; SCAT DUL WHT FLOR, SLW
MLKY CUT, DUL GRNSH RES RING

SANDRIDGE - 4 JRanch 3408 1-33H 300 Oil Indica
0.00101 0

KD CG 25 U.

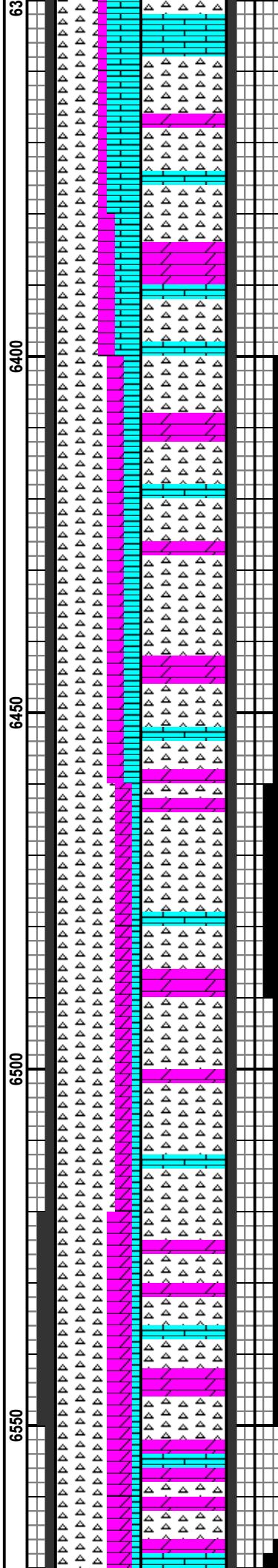
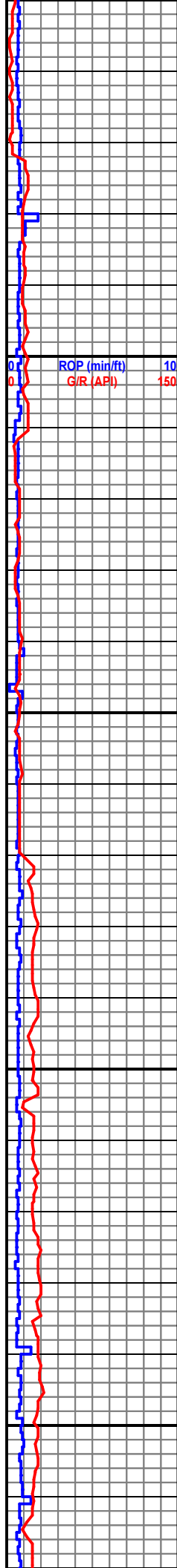
KD BG 11 U.

MD 6367 TVD 4769.62
INC 90 AZ 0
VS 1987.8

WOB: 13.5
RPM: 66
SPM: 82
PSI: 1225

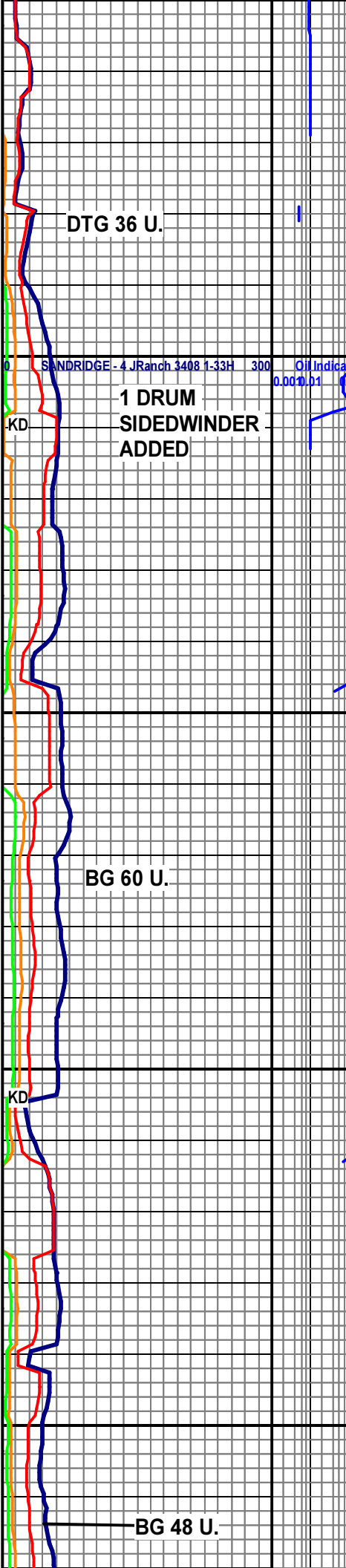
MD 6462 TVD 4769.12
INC 90.6 AZ 359.4
VS 2082.78

MD 6555 TVD 4767.82
INC 91 AZ 357.8
VS 2175.76



CHRT: MSTLY OPQ MLKY WHT, TR
STNG, TR ASPH, SME CALC INCL,
MTLY BLKY, SME PLTY, HRD, SUB
ANG - SUB RND; DOL: MSTLY OFF
WHT - LT CRM, PRED SUC, SOFT -
MOD FRM; LS: MSTLY OFF WHT, TR
LT TAN, MSTLY CRPXLN, FRM,
BRTL; SCAT WHT FLOR, BRT WHT
FLSH CUT, THN WHT RES RING

CHRT: PRED OPQ MLKY WHT, SME
CLR, SME CALC INCL, ABUN CNCH
FRAC, TR ASPH; DOL: PRED MED
CRM, ABUN SUC, FN TXT, MOD
FRM, MSTLY CHNKY; LS: MSTLY
OFF WHT, TR LT TAN STNG, MSTLY
CRPXLN, SME SUC, FRM, TR HL
FRAC POR; SCAT WHT FLOR, FST
WHT CUT, THCK WHT RES RING



DTG 36 U.

1 DRUM
SIDEDWINDER
ADDED

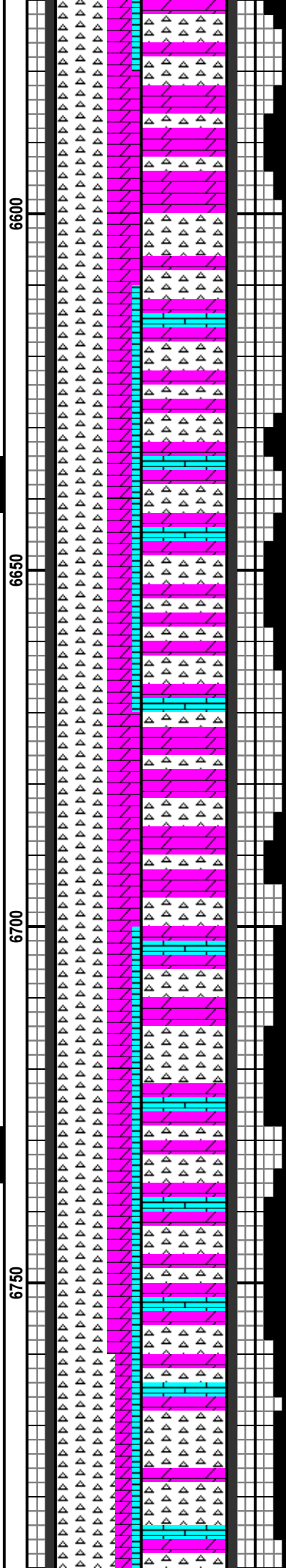
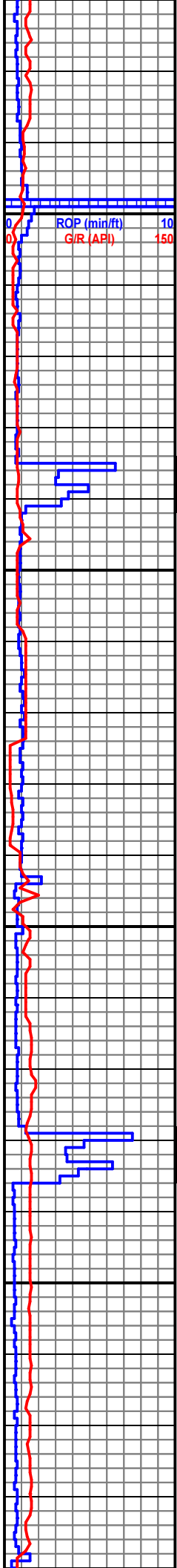
BG 60 U.

BG 48 U.

WOB: 13.3
RPM: 70
SPM: 71
PSI: 1005

MD 6648 TVD 4766.2
INC 91 AZ 357.1
VS 2268.77

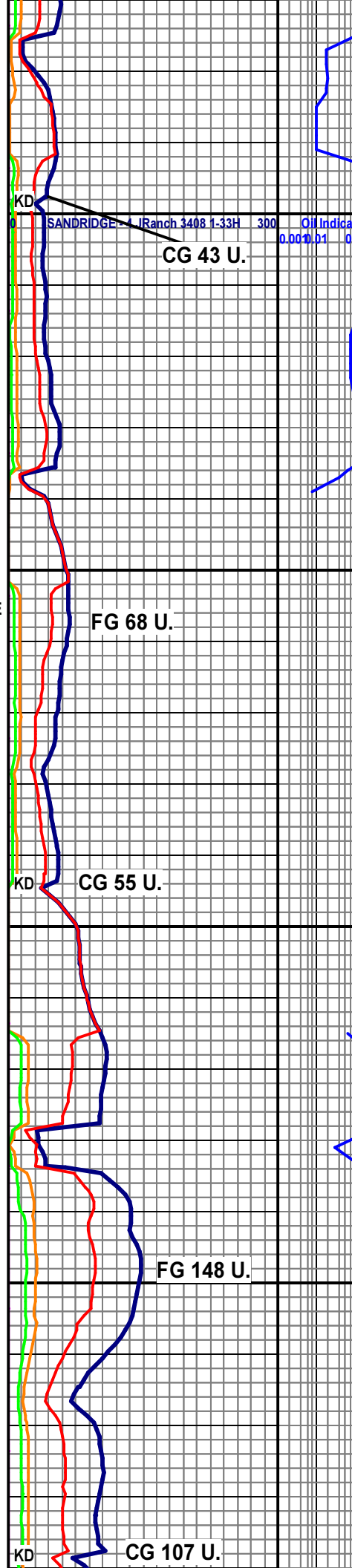
MD 6744 TVD 4765.03
INC 90.4 AZ 356.9
VS 2364.71



CHRT: PRED OPQ WHT, SME OFF WHT, SME CLR, ABUND CALC INCL, SME O STNING, MSTLY MED XTLN, SME FN XTLN, MSTLY BLKY, MSTLY SUB ANG, SME ANG, TRC RD, SME DOL, MSTLY HRD, SME V HRD, TRC POR YEL FLOR, GD MLKY WHT CUT, POR THN WHT RES RNG

CHRT: PRED WHT, SME OFF WHT, TRC CLR, ABUND CALC INCL, SME O STNING, MSTLY MED XTLN, SME FN XTLN, BLKY, MSTLY SUB ANG, SME ANG, SME RD, SME DOL, SME LS, MSTLY HRD, SME V HRD, TRC POR YEL FLOR, GD MLKY WHT CUT, THN WHT RES RNG

CHRT: PRED OFF WHT, SME WHT, SME CLR, ABUND CALC INCL, ABUND O STNING, MSTLY MED XTLN, SME FN XTLN, MSTLY BLKY, MSTLY SUB ANG, SME ANG, TRC RD, SME DOL, SME LS, MSTLY HRD, SME V HRD, SCAT POR YEL FLOR, GD MLKY WHT CUT, FR THN RES RNG



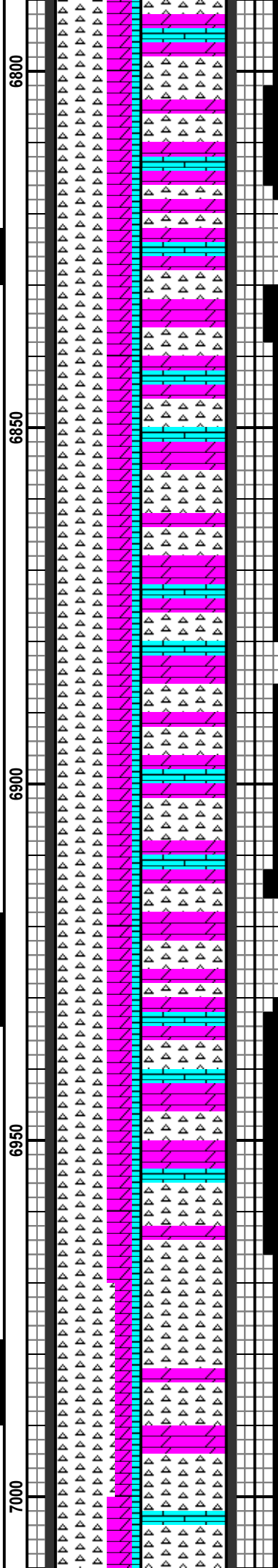
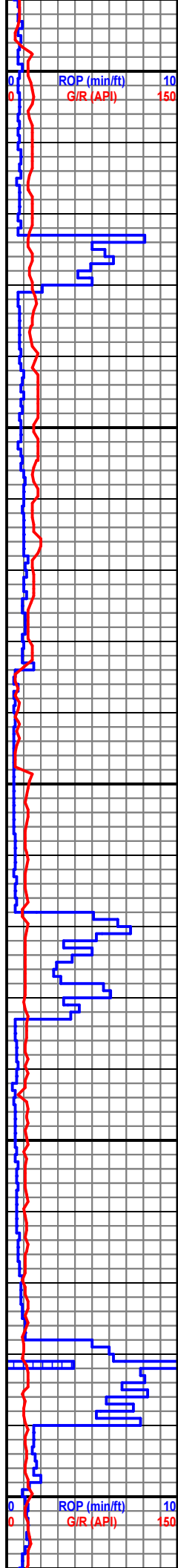
WOB: 16.5
RPM: 61
SPM: 82
PSI: 1304

MD 6840 TVD 4764.94
INC 89.7 AZ 356.2
VS 2460.65

02/25/2013

MD 6935 TVD 4766.52
INC 88.4 AZ 356.7
VS 2555.56

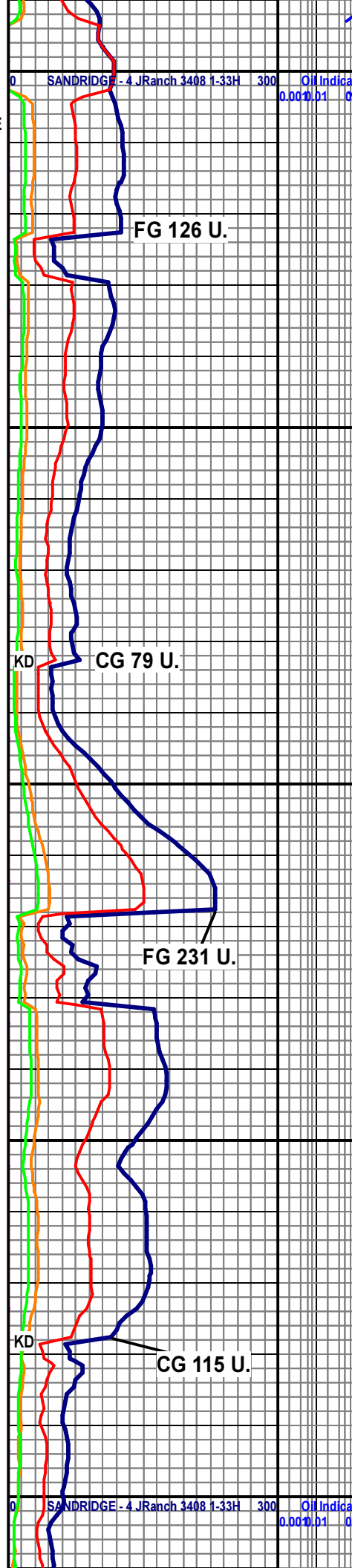
WOB: 20.3
RPM: 69
SPM: 78
PSI: 1212



CHRT: PRED WHT, SME OFF WHT, TRC CLR, ABUND CALC INCL, SME O STNING, MSTLY MED XTLN, SME FN XTLN, BLKY, MSTLY SUB ANG, SME ANG, SME RD, SME DOL, SME LS, MSTLY HRD, SME V HRD, SCAT POR YEL FLOR, GD MLKY WHT CUT, FR THN RES RNG

CHRT: PRED OPQ WHT, SME OFF WHT, SME CLR, ABUND CALC INCL, SME O STNING, MSTLY MED XTLN, SME FN XTLN, MSTLY BLKY, MSTLY SUB ANG, SNE ANG, SME RD, SME DOL, SME LS, MSTLY HRD, SME V HRD, SCAT POR YEL FLOR, FR MLKY WHT CUT, FR THN RES RNG

CHRT: PRED OFF WHT, SME WHT, SME CLR, ABUND CALC INCL, SME O STNING, SMTLY MED XTLN, SME FN XTLN, BLKY, MSTLY SUB ANG, SME ANG, TRC RD, SME DOL, SME LS, MSTLY HRD, SME V HRD, SCAT POR YEL FLOR, GD MLKY WHT CUT, FR THN RES RNG



FG 126 U.

KD CG 79 U.

FG 231 U.

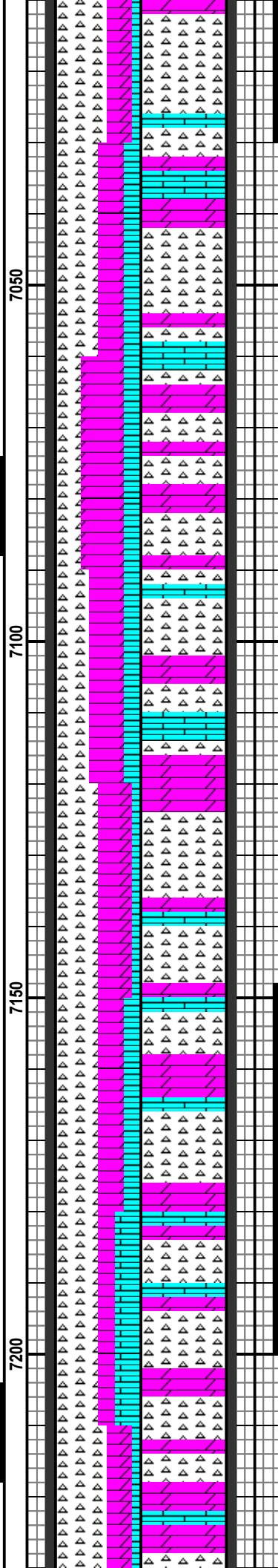
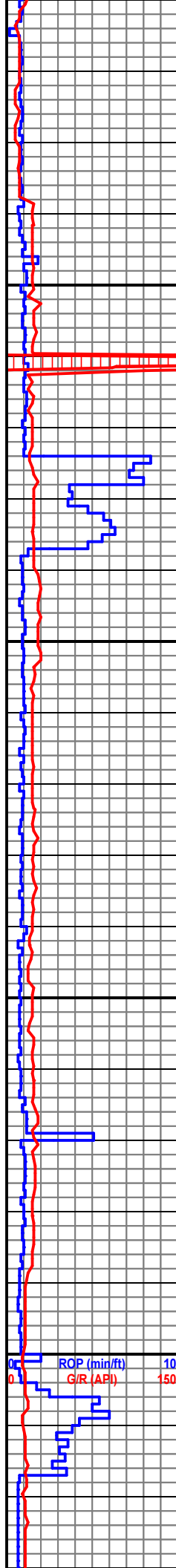
KD CG 115 U.

MD 7031 TVD 4767.69
INC 90.2 AZ 357.9
VS 2651.5

MD 7126 TVD 4765.79
INC 92.1 AZ 358.6
VS 2746.49

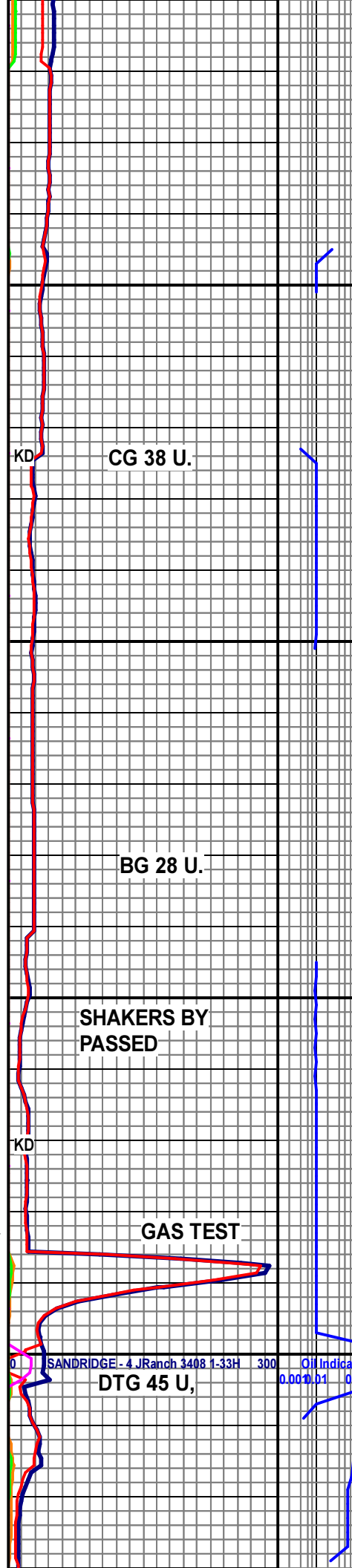
WOB: 22.0
RPM: 65
SPM: 80
PSI:1301

MD 7222 TVD 4761.43
INC 93.1 AZ 0.6
VS 2842.38



DOL: MSTLY OFF WHT - LT CRM,
TR STNG, FN TXT, SUC, MOD FRM,
SME PP POR; CHRT: PRED MLKY
WHT, TR CLR, TR ASPH, ABUN
SPIC, SME CALC INCL, SME CNCH
FRAC, HRD, SME BRTL; LS: PRED
OFF WHT, MSTLY CRPXLN, SME
SUC, SME HL FRAC POR, FRM,
BRTL, BLKY; SCAT GRNSH WHT
FLOR, PR GRNSH CUT, THN
GRNSH RES RING

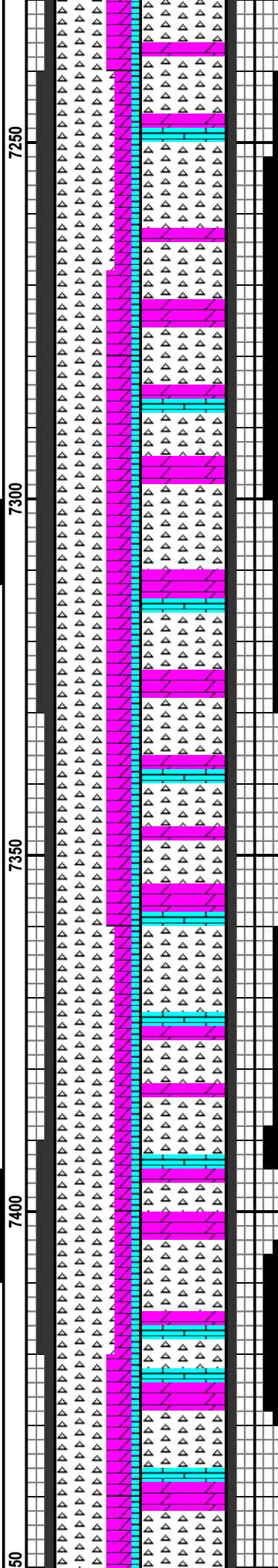
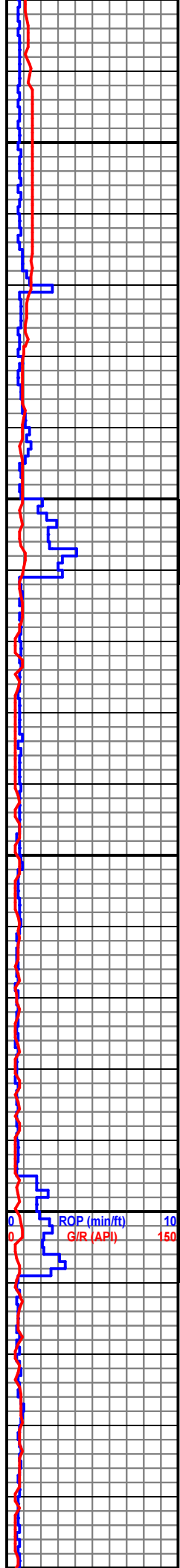
CHRT: PRED OPQ MLKY WHT, SME
CLR, SME CALC INCL, SME CNCH
FRAC, TR ASPH; DOL: PRED MED
CRM, ABUN SUC, FN TXT, MOD
FRM, MSTLY CHNKY; LS: MSTLY
OFF WHT, TR LT TAN STNG, MSTLY
CRPXLN, SME SUC, FRM, TR HL
FRAC POR; SCAT WHT FLOR, SLW
WHT CUT, THN WHT RES RING



MD 7316 TVD 4756.51
INC 92.9 AZ 0.6
VS 2936.19

WOB: 15.4
RPM: 0
SPM: 82
PSI: 1198

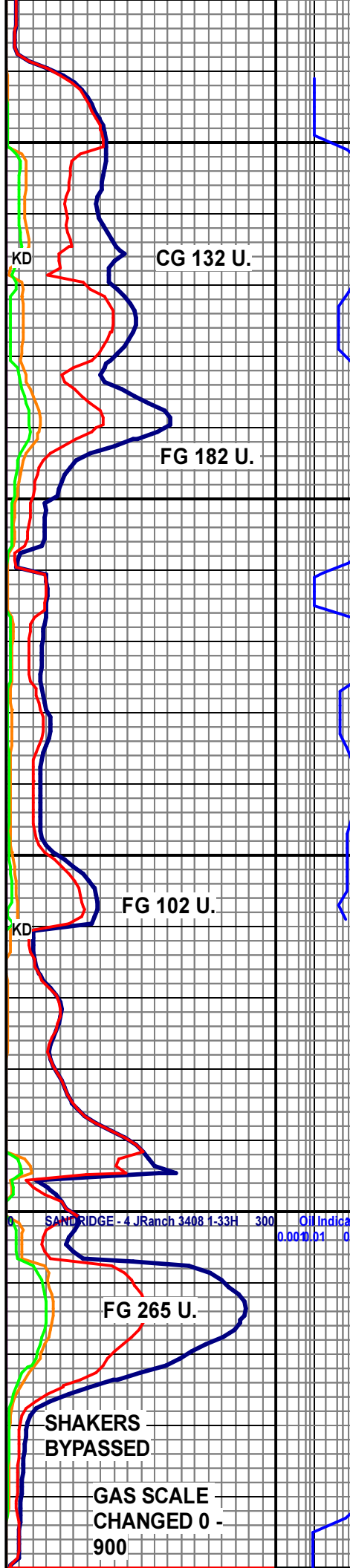
MD 7412 TVD 4751.99
INC 92.5 AZ 0.7
VS 3031.99



CHRT: PRED OFF WHT - LT CRM,
SME ASPH, SME TAN STNG, ABUN
CALC INCL, SME CNCH FRAC,
PRED SUB ANG, HRD, SME VRY
BRTL; DOL: PRED CRM, SUC,
CHNKY/BLKY, MOD FRM; LS: PRED
OFF WHT, SME LT TAN STNG,
PRED BLKY, SME PLTY, SME HL
FRAC POR, FRM, SME BRTL; SCAT
BRT GRN FLOR, BRT GRN FLH
CUT, GD GRN RES RING

CHRT: PRED OFF WHT - LT CRM,
TR ASPH, ABUN CALC INCL, SME
CNCH FRAC, SUB ANG - SUB RND,
HRD, SME VRY BRTL; DOL: PRED
CRM, SUC, CHNKY/BLKY, MOD
FRM; LS: PRED OFF WHT, SME LT
TAN STNG, PRED BLKY, SME PLTY,
SME HL FRAC POR, FRM, SME
BRTL; SCAT GRN FLOR, SLW DUL
GRN CUT, PR GRN RES RING

CHRT: PRED WHT, SME OFF WHT,
SME CLR, SME O STNG, MSTLY
MED XTLL, SME FN XTLL, MSTLY
BLKY, MSTLY SUB ANG, SME ANG,
SME DOL, SME LS, MSTLY HRD,
SME V HRD, SCAT POR YEL FLOR,
GD MLKY WHT CUT, FR RES RING



CG 132 U.

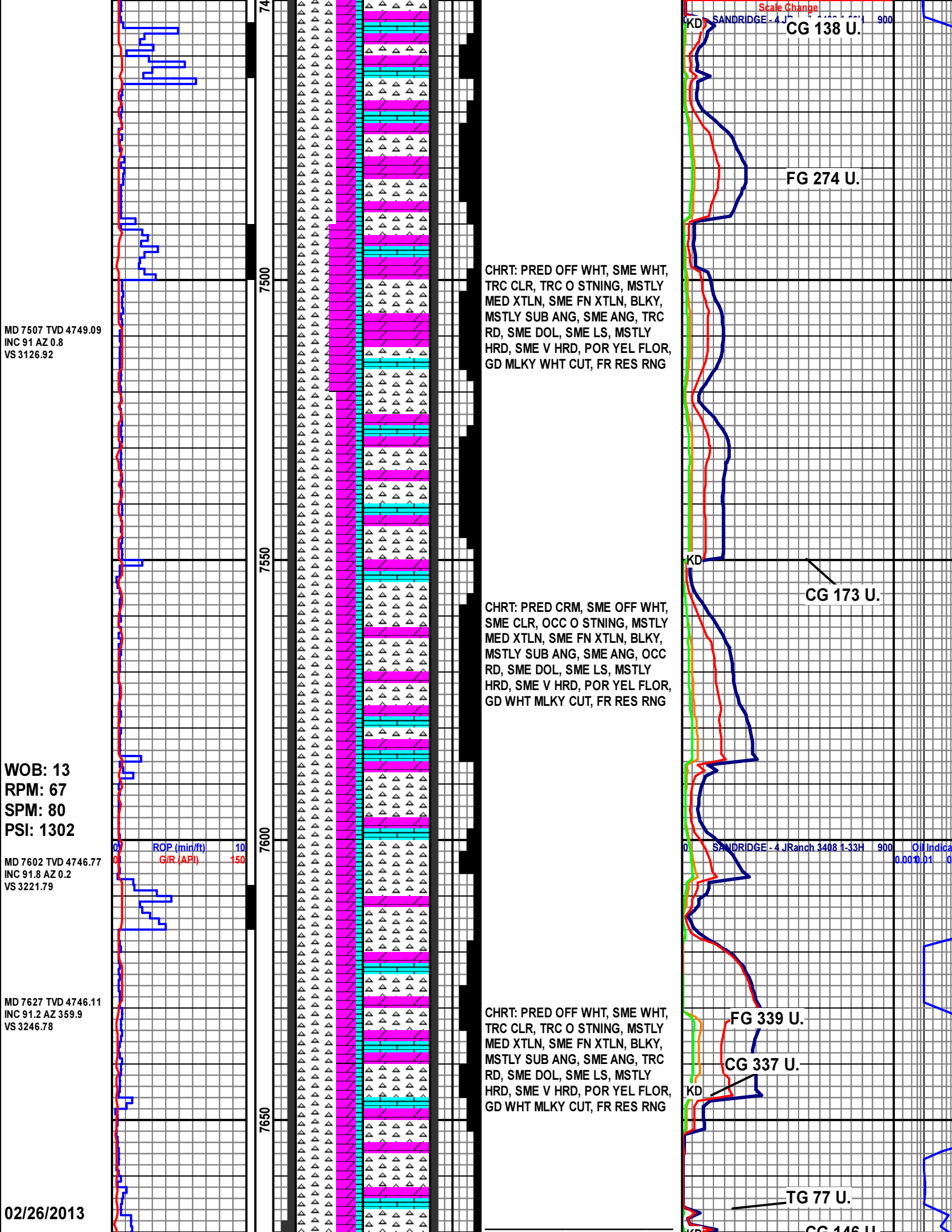
FG 182 U.

FG 102 U.

FG 265 U.

SHAKERS
BYPASSED

GAS SCALE
CHANGED 0 -
900



MD 7507 TVD 4749.09
INC 91 AZ 0.8
VS 3126.92

WOB: 13
RPM: 67
SPM: 80
PSI: 1302

MD 7602 TVD 4746.77
INC 91.8 AZ 0.2
VS 3221.79

MD 7627 TVD 4746.11
INC 91.2 AZ 359.9
VS 3246.78

02/26/2013

CHRT: PRED OFF WHT, SME WHT,
TRC CLR, TRC O STNING, MSTLY
MED XTLN, SME FN XTLN, BLKY,
MSTLY SUB ANG, SME ANG, TRC
RD, SME DOL, SME LS, MSTLY
HRD, SME V HRD, POR YEL FLOR,
GD MLKY WHT CUT, FR RES RNG

CHRT: PRED CRM, SME OFF WHT,
SME CLR, OCC O STNING, MSTLY
MED XTLN, SME FN XTLN, BLKY,
MSTLY SUB ANG, SME ANG, OCC
RD, SME DOL, SME LS, MSTLY
HRD, SME V HRD, POR YEL FLOR,
GD WHT MLKY CUT, FR RES RNG

CHRT: PRED OFF WHT, SME WHT,
TRC CLR, TRC O STNING, MSTLY
MED XTLN, SME FN XTLN, BLKY,
MSTLY SUB ANG, SME ANG, TRC
RD, SME DOL, SME LS, MSTLY
HRD, SME V HRD, POR YEL FLOR,
GD WHT MLKY CUT, FR RES RNG

Scale Change

CG 138 U.

FG 274 U.

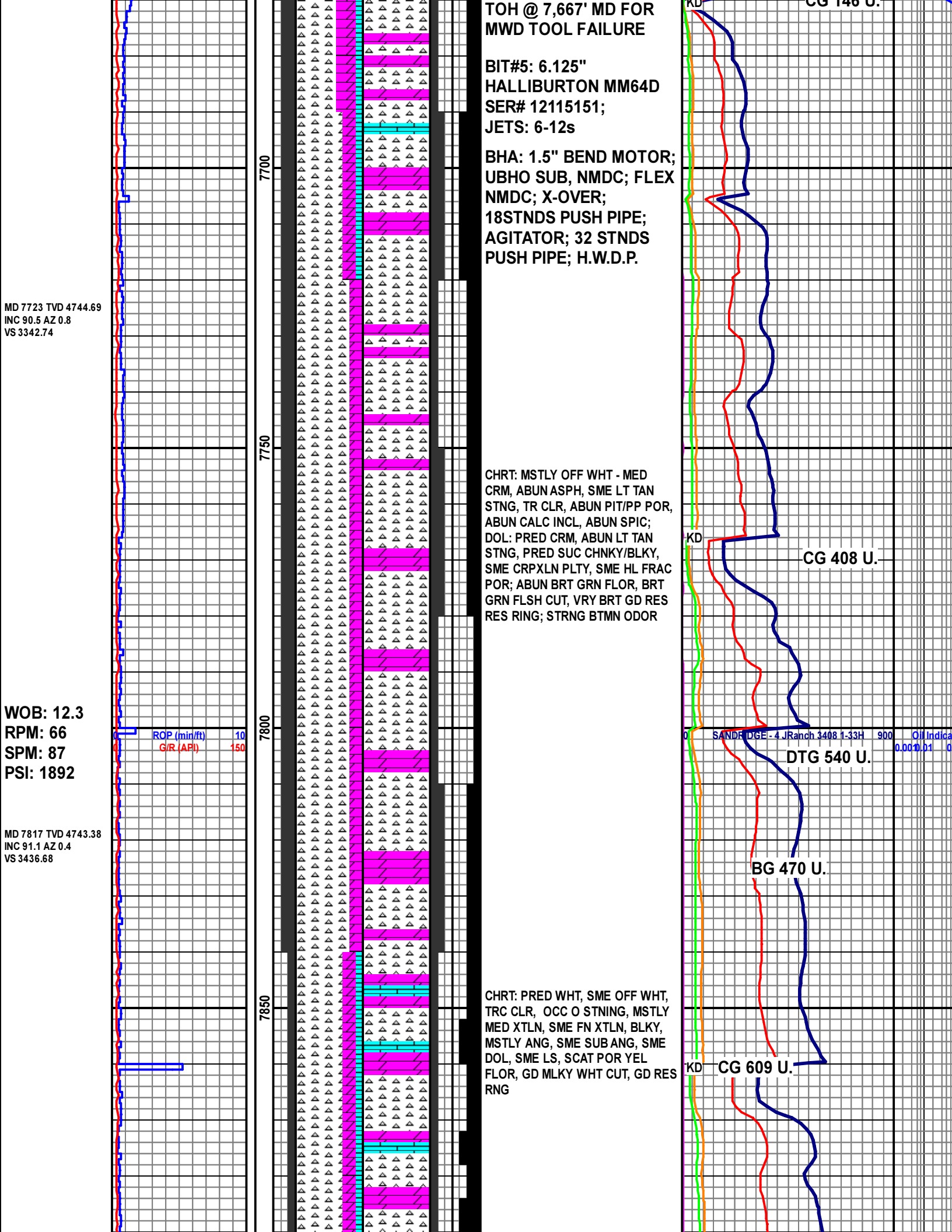
CG 173 U.

FG 339 U.

CG 337 U.

TG 77 U.

CG 146 U.



MD 7913 TVD 4742.29
INC 90.2 AZ 359.3
VS 3532.67

WOB: 13.3
RPM: 64
SPM: 79
PSI: 1961

MD 8008 TVD 4741.29
INC 91 AZ 359
VS 3627.61

MD 8102 TVD 4740.72
INC 89.7 AZ 358.2
VS 3721.62

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

7900

7950

8000

8050

8100

CHRT: PRED OFF WHT, SME WHT,
OCC CLR, ABUND O STNING,
MSTLY MED XTLN, SME FN XTLN,
BLKY, MSTLY SUB ANG, SME ANG,
SME RD, SME DOL, SME LS, SCAT
POR YEL FLOR, GD WHT MLKY
CUT, GD RES RNG

CHERT: MSTLY OFF WHT, SME
WHT, TRC CLR, ABUND O STNING,
MSTLY MED XTLN, SME FN XTLN,
BLKY, MSTLY SUB ANG, SME ANG,
TRC RD, SME DOL, SME LS, SCAT
YEL FLOR, GD MLKY WHT CUT, GD
RES RNG

KD CG 639 U.

FG 653 U.

KD CG 770 U.

SVY G 833 U.

SANDRIDGE - 4 J Ranch 3408 1-33H 900 Oil Indica 0.001 0.01 0

WOB: 17.6
RPM: 63
SPM: 82
PSI: 2137

MD 8198 TVD 4741.72
INC 89.1 AZ 357.7
VS 3817.64

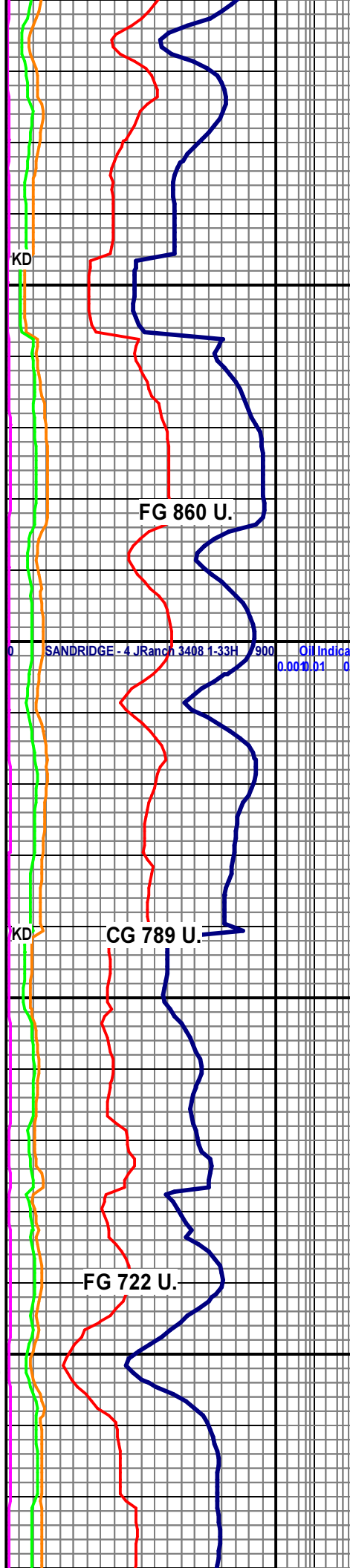
ROP (min/ft) 10
G/R (API) 150

MD 8293 TVD 4742.05
INC 90.5 AZ 357.2
VS 3912.57

CHRT: PRED OFF WHT, SME WHT,
SME CLR, ABUND O STNING,
MSTLY MED XTLN, SME FN XTLN,
MSTLY BLKY, MSTLY SUB ANG,
SME ANG, SME RD, SME DOL, SME
LS, SCAT POR YEL FLOR, GD
MLKY WHT CUT, GD RES RNG

CHRT: PRED WHT, SME OFF WHT,
TRC CLR, SME O STNING, MSTLY
MED XTLN, SME FN XTLN, BLKY,
PRED SUB ANG, SME ANG, SME
RD, SME DOL, SME LS, SCAT POR
YEL FLOR, GD WHT MLKY CUT, GD
RES RNG

CHRT: MSTLY WHT, SME OFF WHT,
SME CLR, ABUND O SRTING, PRED
MED XTLN, SME FN XTLN, BLKY,
MSTLY SUB ANG, SME ANG, SME
DOL, SME LS, SCAT POR YEL
FLOR, GD MLKY WHT CUT, GD RES
RNG



02/27/2013

MD 8386 TVD 4740.92
INC 90.9 AZ 356.2
VS 4005.5

WOB: 17.5
RPM: 61
SPM: 82
PSI: 2133

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

MD 8482 TVD 4738.32
INC 92.2 AZ 356.8
VS 4101.44

8350

8400

8450

8500

50

CHRT: PRED OFF WHT, SME WHT,
OCC CLR, ABUND O STNING,
MSTLY MED XTLN, SME FN XTLN,
BLKY, MSTLY SUB ANG, SME ANG,
SME RD, SME DOL, SME LS, SCAT
POR YEL FLOR, GD MLKY WHT
CUT, GD RES RNG

CHRT: MSTLY WHT, SME OFF WHT,
ABUND O STNING, PRED MED
XTLN, SME FN XTLN, BLKY,
MSTLY SUB ANG, SME ANG, SME
RD, SCAT POR YEL FLOR, GD
MLKY WHT CUT, GD RES RNG

CHRT: MSTLY OFF WHT, SME WHT,
TRC CLR, ABUND O STNING,
MSTLY MED XTLN, SME FN XTLN,
BLKY PRED SUB ANG, SME ANG

KD

CG 737 U.

SVY G 571 U.

KD

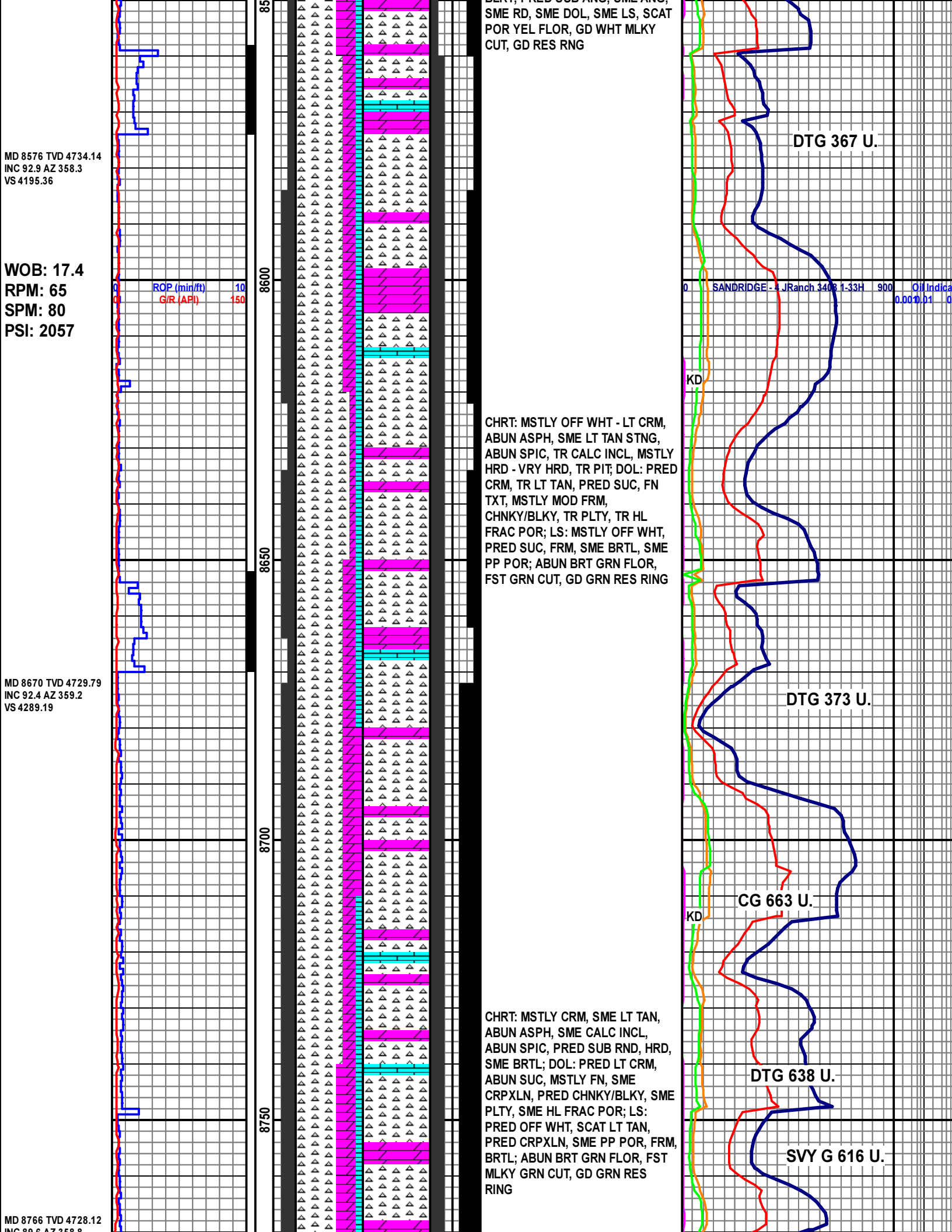
CG 736 U.

FG 668 U.

KD

CG 491 U.

SANDRIDGE J Ranch 3408 1-33H 900 Oil Indica 0.001 0.01 0

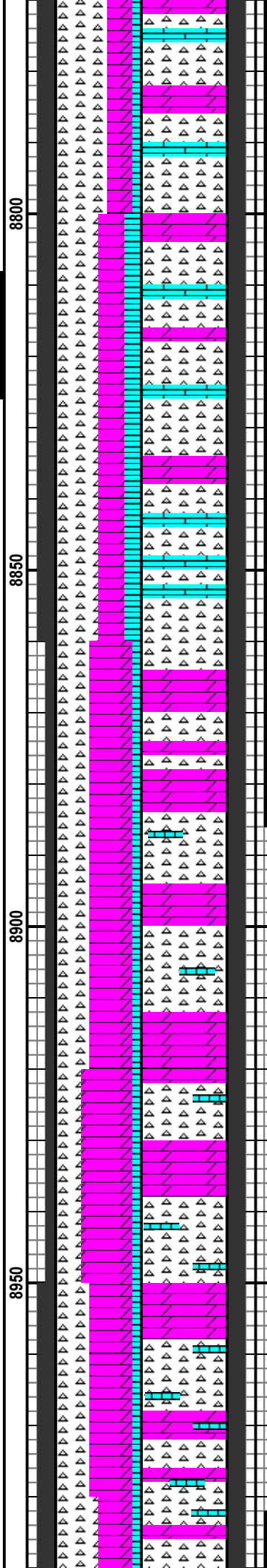
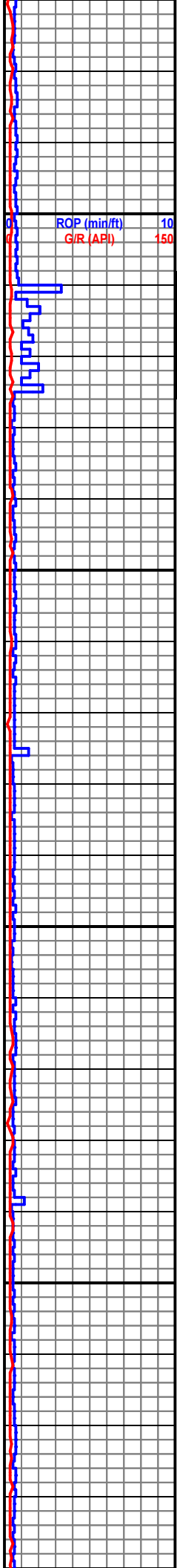


NC 89.6 AZ 358.8
VS 4385.22

WOB: 13.2
RPM: 58
SPM: 83
PSI: 1895

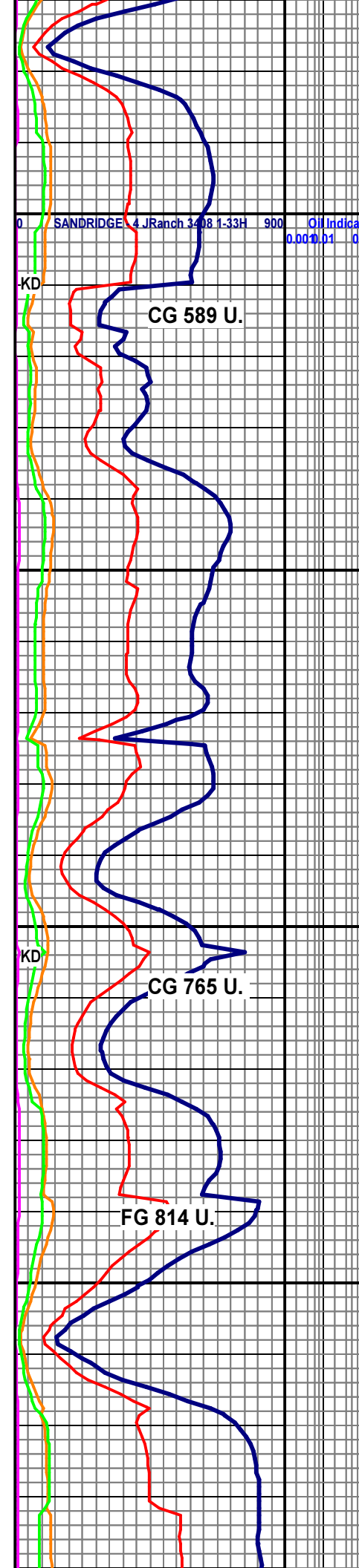
MD 8861 TVD 4727.21
INC 91.5 AZ 358
VS 4480.21

MD 8956 TVD 4725.38
INC 90.7 AZ 358.9
VS 4575.12



DOL: MSTLY CRM, ABUN LT TAN
STNG, MSTLY SUC, SUB ANG -
SUB RND, FRM, VRY BRTL; CHRT:
MSTLY OFF WHT - CRM, SME
ASPH, ABUN CALC INCL, SME
SPIC; LS: MSTLY OFF WHT, PRED
CRPXLN, BLKY, FRM, SME HL
FRAC POR; ABUN GRN FLOR, GD
GREN CUT, SPTY GRN RES RING

MUD CK @9,011'
MW: 8.40
FV: 27
PV: 1
YP: 1
GEL: 1 / 1
API:
CAKE: /
SOL: 0.5%
OIL/ WAT: 0.5/99.0%
PH: 9.6
FA: /
CHL: 1000
HARD: 140

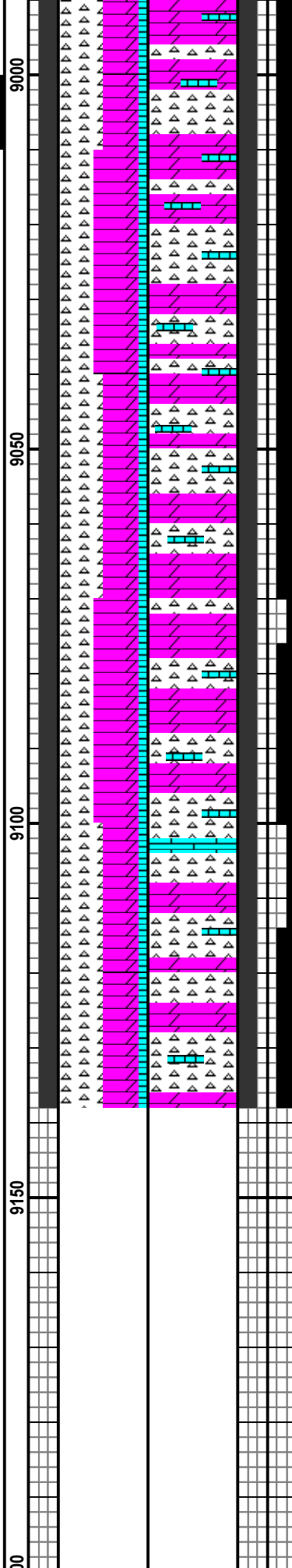
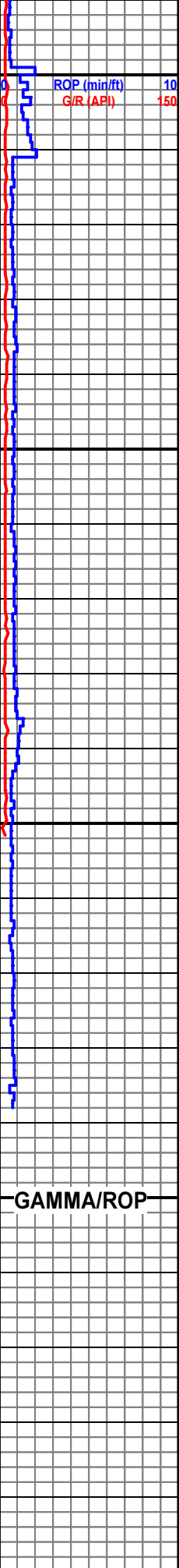


WOB: 14.1
RPM: 50
SPM: 82
PSI: 2088

MD 9050 TVD 4723.25
INC 91.9 AZ 359.2
VS 4669.12

MD 9091 TVD 4722.07
INC 91.4 AZ 359.4
VS 4710.07

MD 9138 TVD 4720.92
INC 91.4 AZ 359.4
VS 4757.06

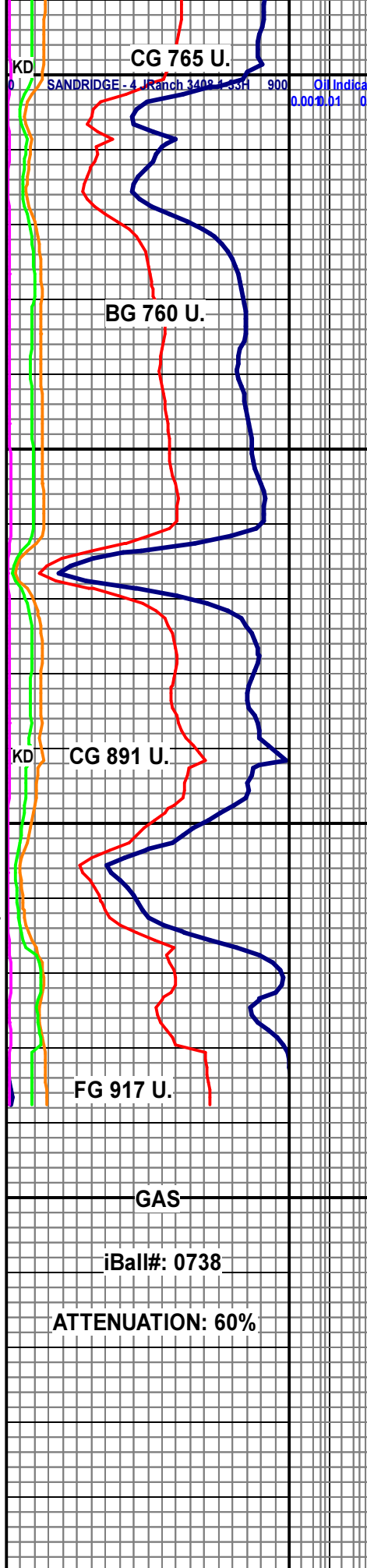


DOL: MSTLY CRM, ABUN TAN
STNG, PRED SUC, BLKY/CHNKY,
MOD FRM; CHRT: MSTLY OPQ LT
TAN/CRM, SME CLR, SME ASPH,
SME SPIC, TR CALC INCL, PRED
HRD, BRT, TR CNCH FRAC; LS:
PRED CRM, SME OFF WHT, MSTLY
BLKY/PLTY, ABUN HL FRAC POR;
BRT GRN FLOR, GD GRN CUT, GD
GRN CHLKY RES RING

CHRT: PRED OPQ MLKY CRM - LT
TAN, SME CLR, SME ASPH, SCAT
CALC INCL, SCAT SPIC, PRED
HRD, SME BRTL, SCAT CNCH
FRAC; DOL: PRED CRM, SME LT
TAN STNG, PRED SUC, MSTLY FN
TXT, BLKY/CHNKY, MOD FRM,
VRY BRTL; LS: PRED OFF WHT - LT
CRM, PRED CRPXLN, BLKY, TR
PLTY, SCAT HL FRAC POR; SME
BRT GRN FLOR, FR - GD GRN CUT,
BRT GRN CHLKY RES RING;
STRNG BTMN ODOR, TR FREE OIL

TD WELL @ 9,138'MD;
4,720.92'TVD ON
2/27/2013

SANDRIDGE ENERGY,
INC;
4J RANCH 3408 1-33H;
SEC: 33, T34S, R8W;
HARPER CO., KS



CG 765 U.

BG 760 U.

CG 891 U.

FG 917 U.

GAS

iBall#: 0738

ATTENUATION: 60%