

*GREAT DIVIDE CONSULTING*



Scale 1:200 Imperial  
Measured Depth Log

Well Name: KERR 14C-25HZ

Well Id: 05123389780000

Location: Weld County, CO.

License Number:

Spud Date: 12/8/2014

Surface Coordinates: 576'FSL & 1966'FWL, SEC.13

Region: DJ Basin

Drilling Completed: 12/16/2014

Bottom Hole 1'FSL & 2035'FWL, SEC.25

Coordinates:

Ground Elevation (ft): 4883' K.B. Elevation (ft): 4899'

Logged Interval (ft): 6679' To: 17817' Total Depth (ft): 17817'

Formation: Codell

Type of Drilling Fluid: Water Base Mud

Printed by HORIZONTAL.LOG from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

**OPERATOR**

Company: Anadarko Petroleum Corporation

Address: Granite Tower

1099 18th St., Suite 1800

Denver, CO 80202

# GEOLOGIST

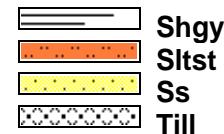
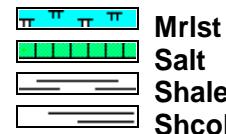
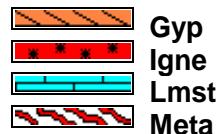
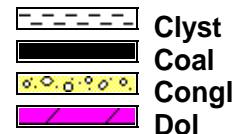
Name: Scott Crozier / Ben Thompson  
Company: Great Divide Consulting, Inc.  
Address: P.O. Box 630263  
Highlands Ranch, CO 80163

## Cores

## DSTs

## Comments

### ROCK TYPES



### 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
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst

#### TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

#### SLISTRG

- Ssstrg

**OTHER SYMBOLS**

**POROSITY**  
E Earthy  
F Fenest  
Fr Fracture  
X Inter  
M Moldic  
O Organic  
P Pinpoint

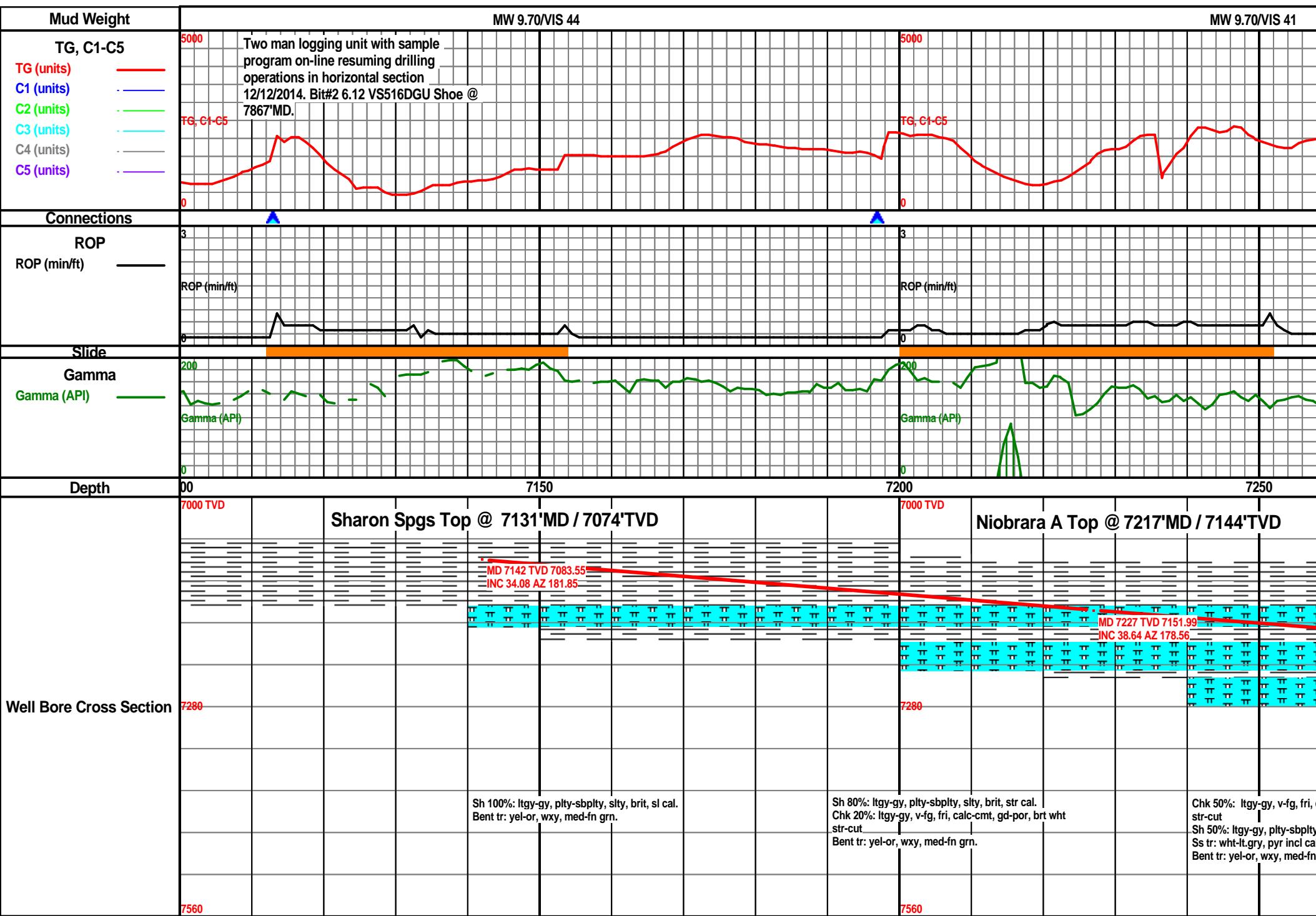
V Vuggy  
**SORTING**  
W Well  
M Moderate  
P Poor

**ROUNDING**  
R Rounded  
F Subrnd  
S Subang  
A Angular

**OIL SHOW**  
E Even

Spotted  
Ques  
Dead  
**INTERVAL**  
C Core  
D Dst

**EVENT**  
Rft  
Connection



MW 9.70/VIS 41

5000

TG, C1-C5

0

3

ROP (min/ft)

0

200

0

200

0

7300

7350

7400

Niobrara B Top @ 7291'MD / 7200'TVD

Niobrara C Top @ 7396'MD / 7266'TVD

7000 TVD

.....

alc-cmt, gd-por,  
slyt, brit,

Chk 70%: ltgy-gy, v-fg, fri, calc-cmt, gd-por, brt  
wht str-cut  
Sh 30%: ltgy-gy, plty-sbplt, slyt, brit, sl cal.

Chk 60%: ltgy-gy, v-fg, fri, calc-cmt, gd-por, brt  
wht str-cut  
Mrst 30%: ltgy-mdgy, v calc, intbd biocl, frm,  
sbplt. Sh 10%: ltgy-gy, plty-sbplt, slyt, brit, sl  
cal. Mic-strgr

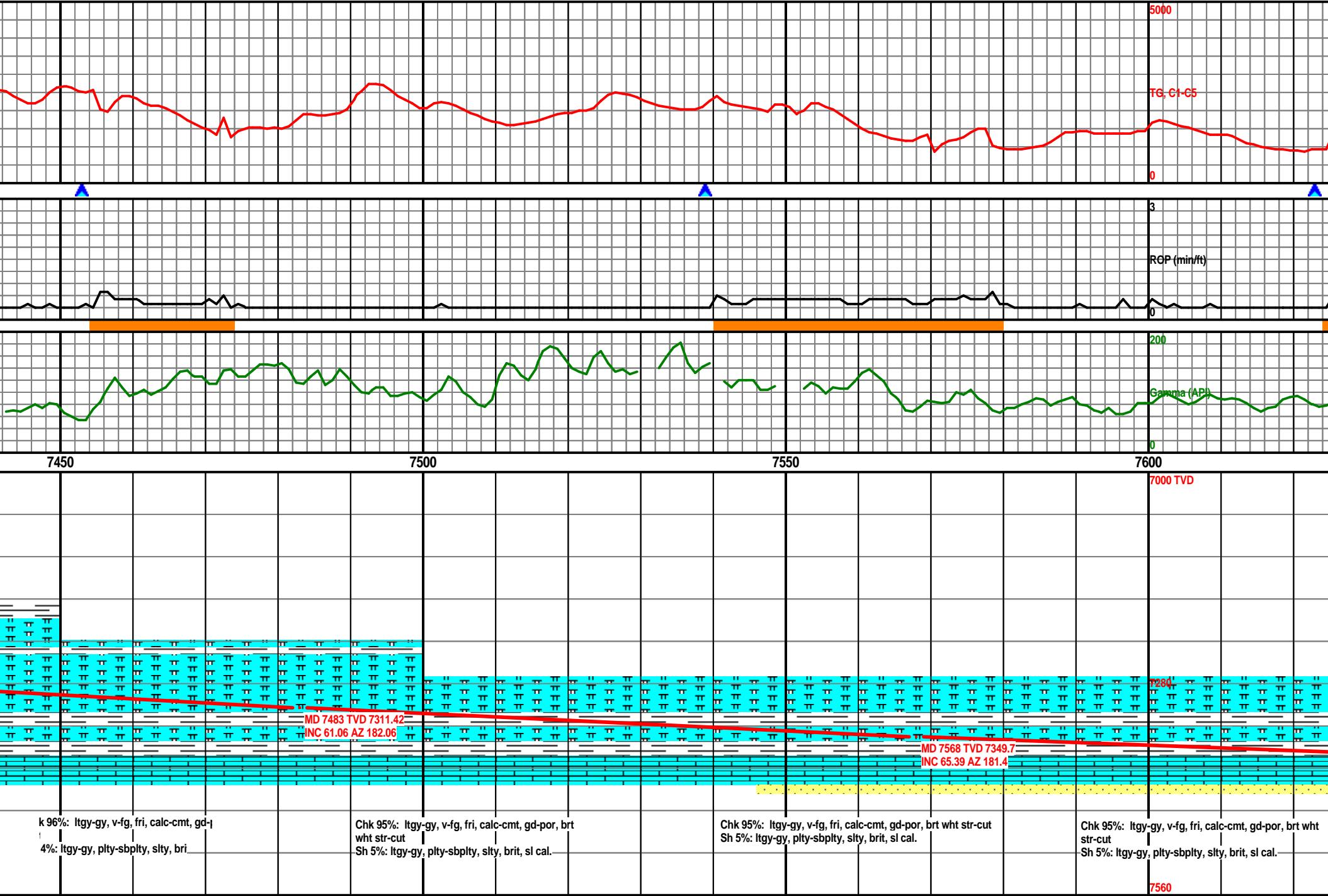
Mrst 50%: ltgy-mdgy, v calc, intbd biocl, frm,  
sbplt, no sfl, slv str wh cut.  
Chalk 40%: ltgy-gy, wh bnd chk, extr calc, occ  
intbd biocl, shly, frm, sbplt, no sfl, fst str wh cut.  
SH 10%: gy-drkg, plty-sbplt, slyt, sft, v calc, py.

7560

Cl  
wh  
Sh

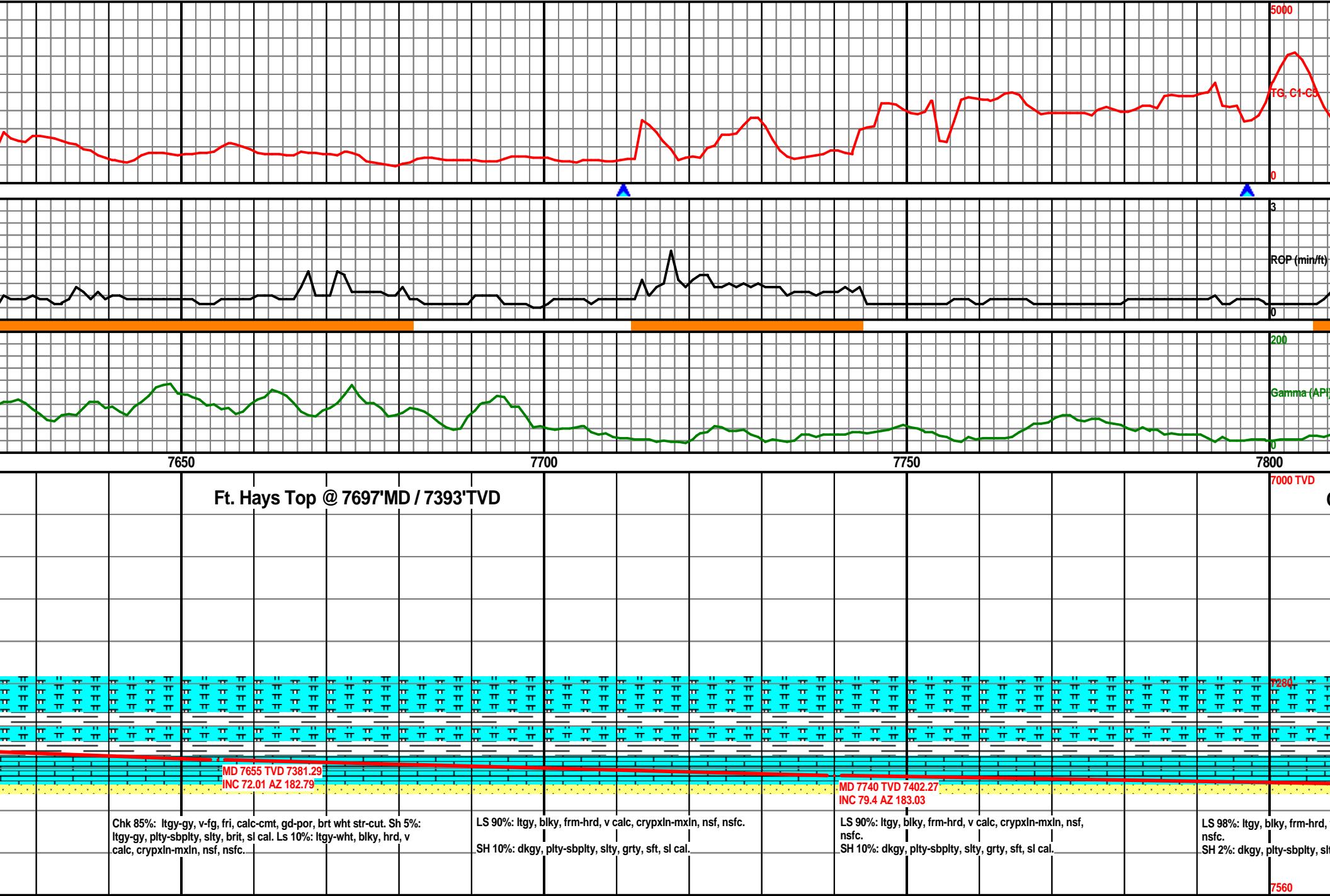
MW 9.80/VIS 48

MW 9.80/VIS 48



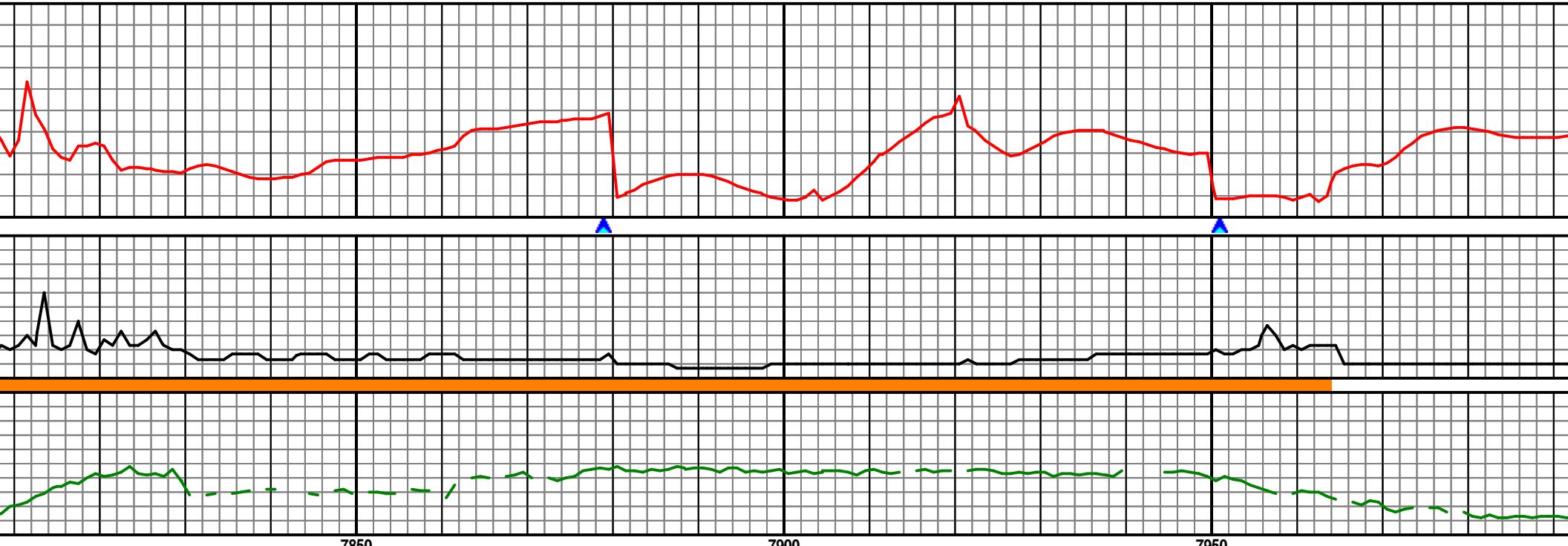
MW 9.80 / VIS 48

MW 9.80 / VIS 48



MW 9.80 / VIS 48

MW 9.10 / VIS 40



7850

7900

7950

odell Top @ 7812' MD / 7414' TVD

7375 TVD

SCALE CHANGE

4:00am 12/12/14 Depth @ 7917' MD

MD 7983 TVD  
INC 91.5 AZ

Scale Change

7425

MD 7898 TVD 7418.59  
INC 91.78 AZ 180.28

SS 75%: gy-dkgw-wht-clr, vfg-fg, rnd-sub rnd, sft, md cal, carb incl, fri, nsf, slw str wh cut.

LS 15%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, nsfc

SH 10%: dkgy, pty-sbplty, sly, grty, sft, sl cal.

SS 40%: gy-dkgw-wht-clr, vfg-fg, rnd-sub rnd, sft, md cal, carb incl, fri, nsf, slw str wh cut.

SH 40%: dkgy, pty-sbplty, sly, grty, sft, sl cal.

LS 20%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, nsfc

SS 40%: gy-dkgw-wht-clr, vfg-fg, rnd-sub rnd, sft, md cal, carb incl, fri, nsf, slw str wh cut.

LS 40%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, nsfc

SH 20%: dkgy, pty-sbplty, sly, grty, sft, sl cal.

MD 7824 TVD 7415.17

INC 82.92 AZ 181.72

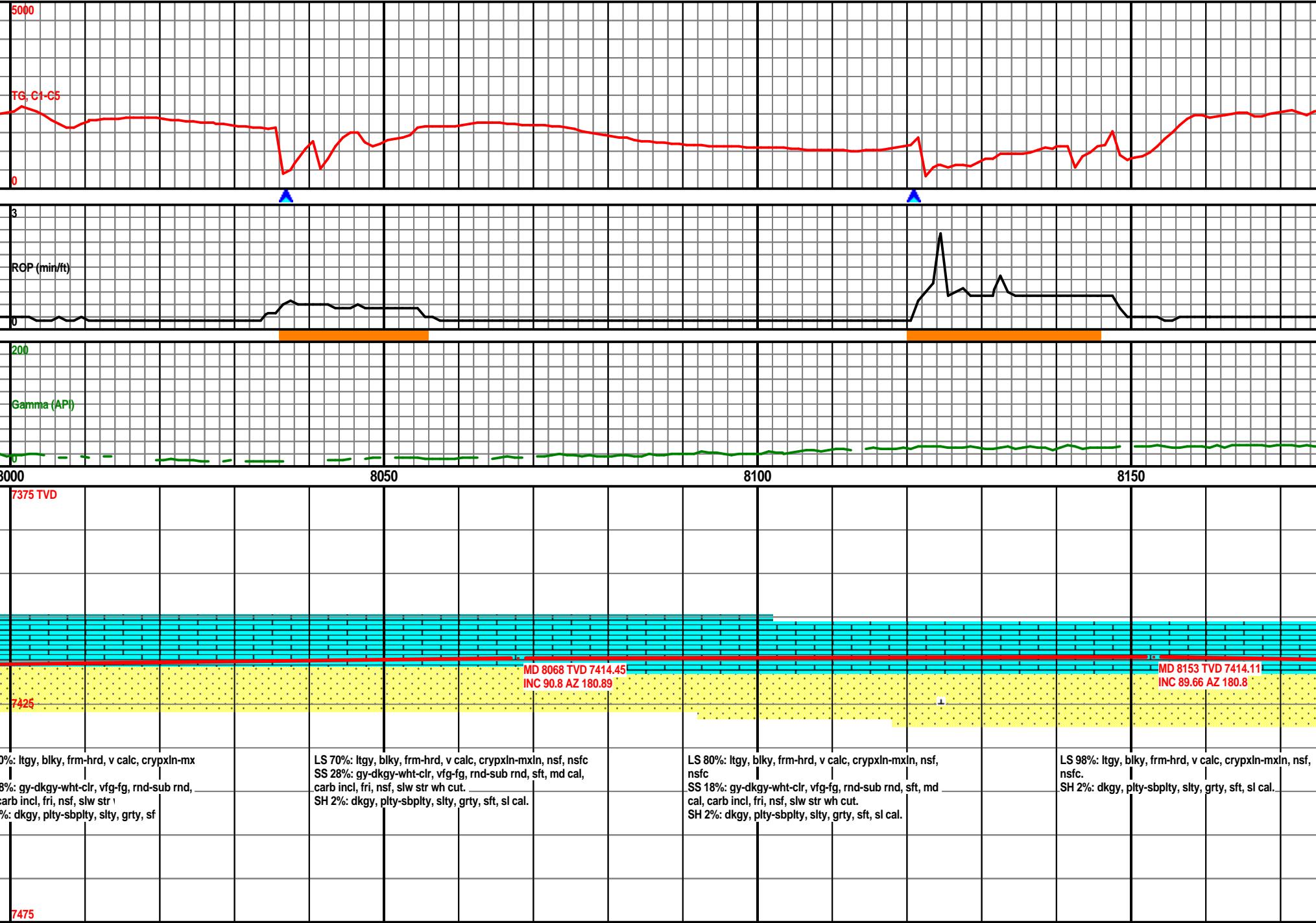
calc, crypxln-mx

y, grty, sf

7475

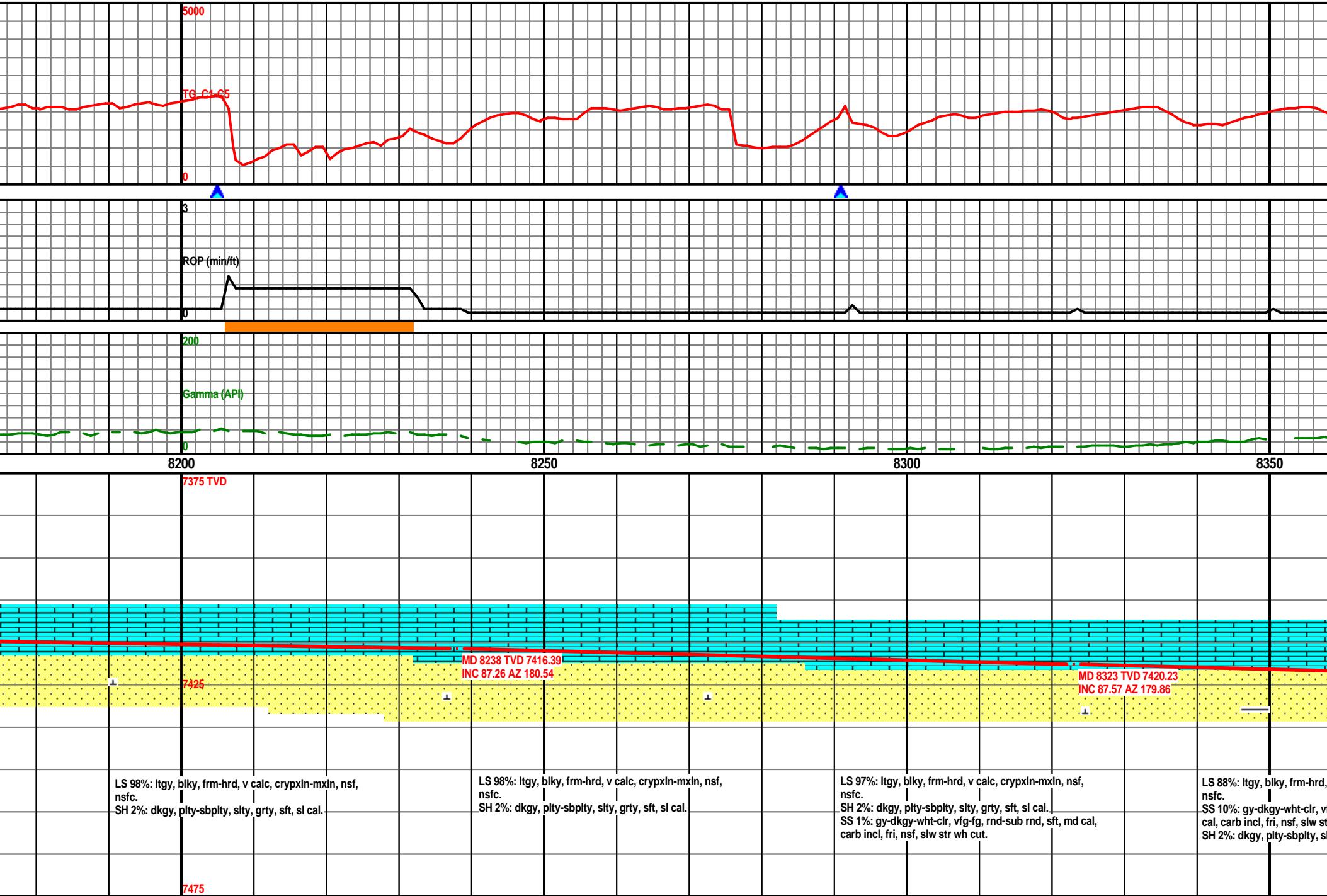
MW 9.10 / VIS 40

MW 9.10 / VIS 40

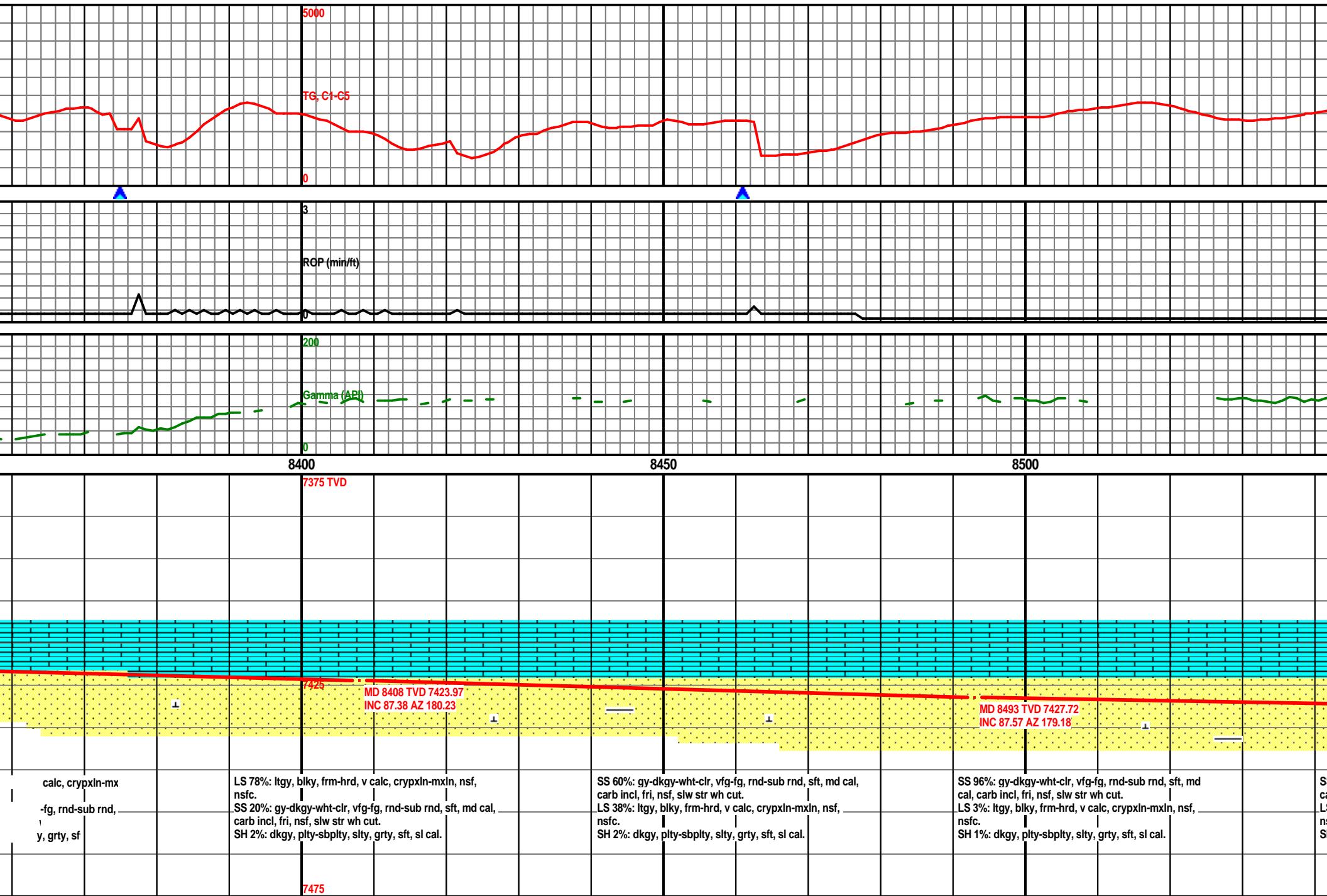


MW 9.10 / VIS 40

MW 9.10 / VIS 40

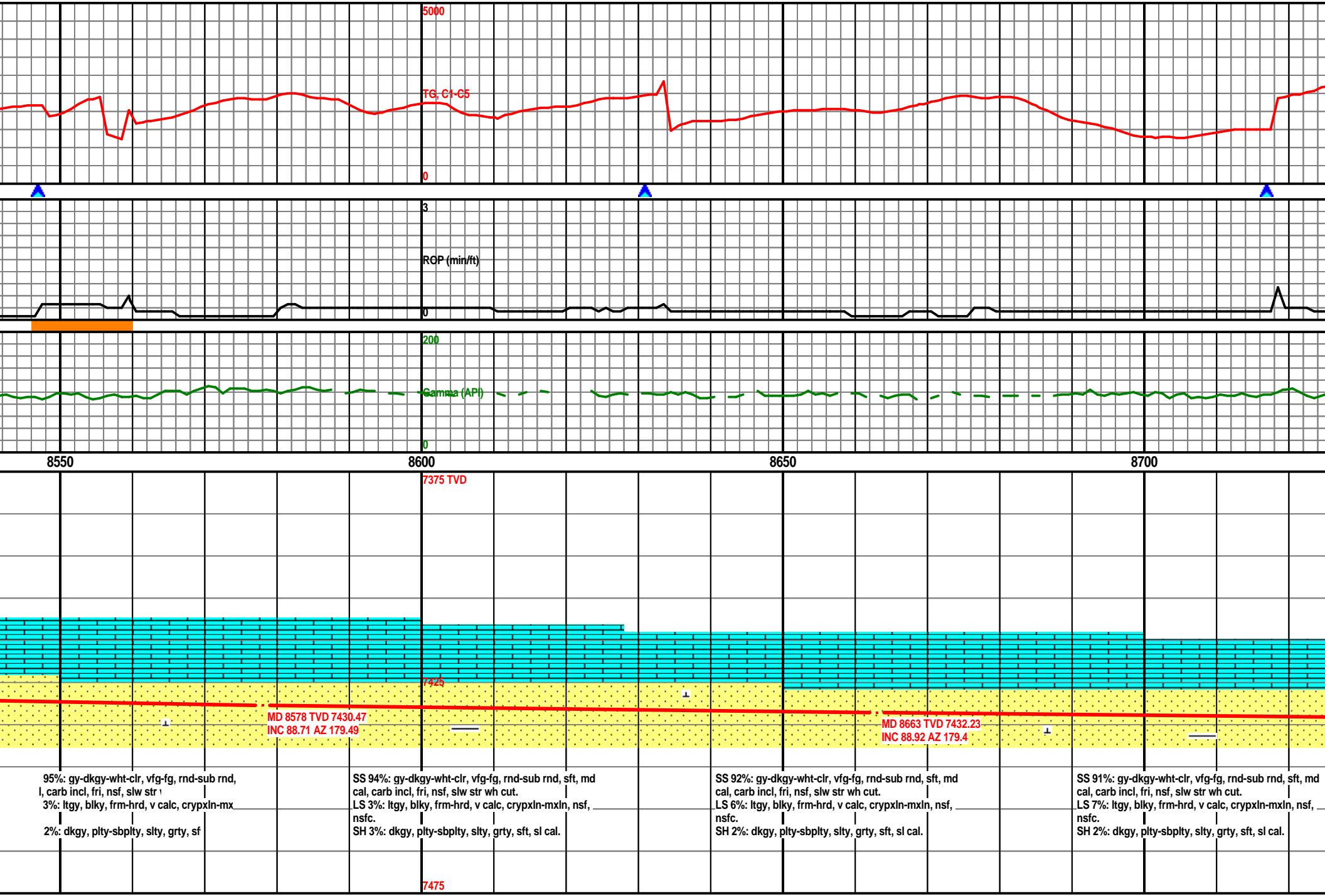


## MW 9.10 / VIS 40



MW 9.10 / VIS 40

MW 9.10 / VIS 40



MW 9.10 / VIS 40

MW 9.10 / VIS 40

5000

TG, C1-C5

0

3

ROP (min/ft)

200

0

8750

8800

8850

8900

7375 TVD

7425

7475

MD 8749 TVD 7433.71

INC 89.11 AZ 179.23

MD 8833 TVD 7435.13

INC 88.95 AZ 178.36

SS 90%: gy-dkgry-wht-clr, vfg-fg, rnd-sub rnd, sft, md cal, carb incl, fri, nsf, slw str wh cut.  
 LS 8%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, nsfc.  
 SH 2%: dkgy, pty-sbpsty, slyt, grty, sft, sl cal.

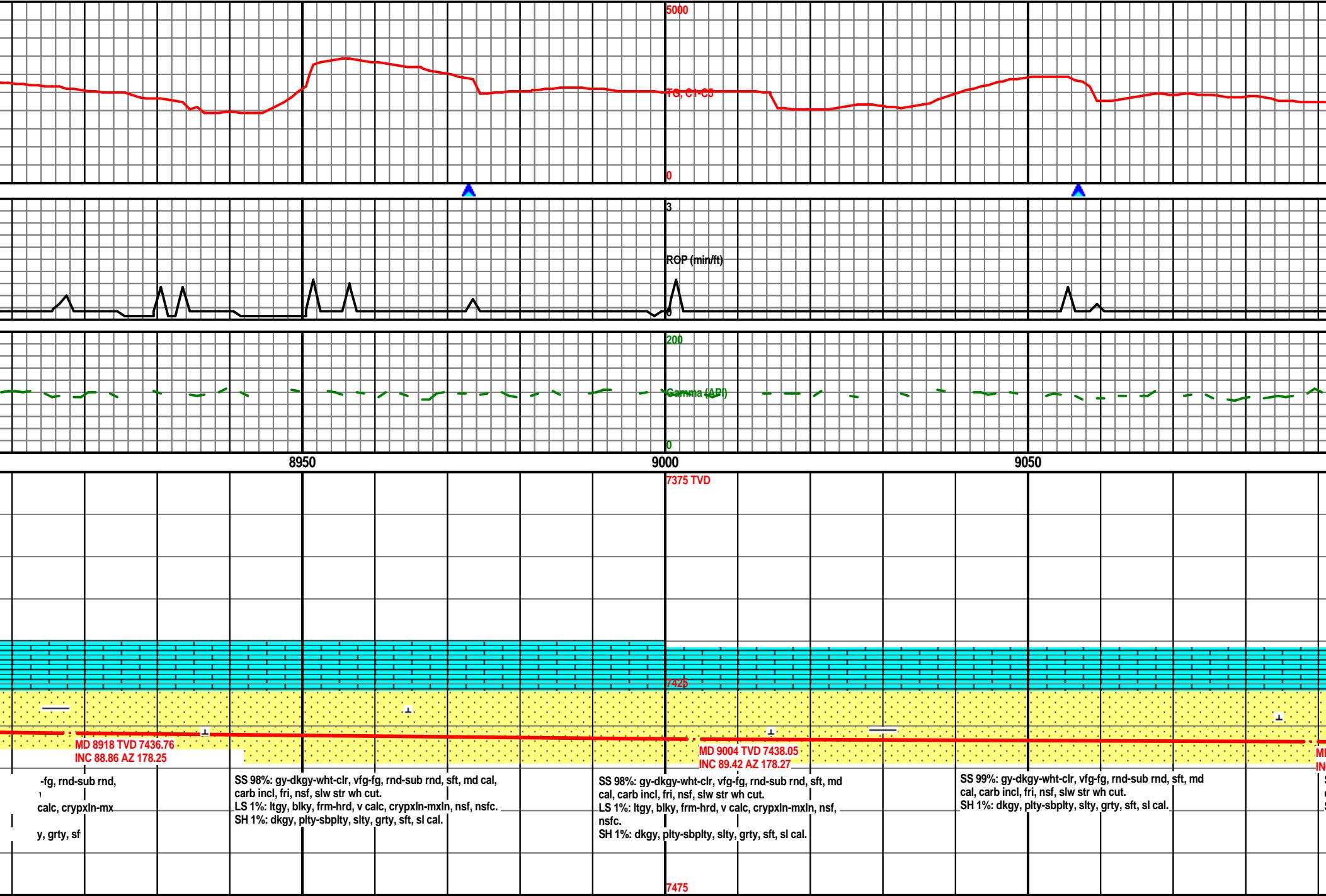
SS 95%: gy-dkgry-wht-clr, vfg-fg, rnd-sub rnd, sft, md cal, carb incl, fri, nsf, slw str wh cut.  
 LS 3%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, nsfc.  
 SH 2%: dkgy, pty-sbpsty, slyt, grty, sft, sl cal.

SS 97%: gy-dkgry-wht-clr, vfg-fg, rnd-sub rnd, sft, md cal, carb incl, fri, nsf, slw str wh cut.  
 LS 2%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, nsfc.  
 SH 1%: dkgy, pty-sbpsty, slyt, grty, sft, sl cal.

SS 98%: gy-dkgry-wht-clr, vfg-fg, rnd-sub rnd, sft, md cal, carb incl, fri, nsf, slw str wh cut.  
 LS 1%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, nsfc.  
 SH 1%: dkgy, pty-sbpsty, slyt, grty, sft, sl cal.

MW 9.10 / VIS 40

MW 9.10 / VIS 40



MW 9.30 / VIS 41

MW 9.30 / VIS 41

5000

TG, C1-C5

0

3

ROP (min/ft)

200

0

9100

9150

9200

9250

7375 TVD

7425

7475

9089 TVD

89.72 AZ

S 99%: gy-dkgry-wht-clr, vfg-fg, rnd-sub rnd,  
l, carb incl, fri, nsf, slw str

H 1%: dkgy, pty-sbpsty, slyt, grty, sf

SS 99%: gy-dkgry-wht-clr, vfg-fg, rnd-sub rnd, sft, md  
cal, carb incl, fri, nsf, slw str wh cut.

SH 1%: dkgy, pty-sbpsty, slyt, grty, sft, sl cal.

MD 9174 TVD 7439.23

INC 89.54 AZ 179.68

SS 99%: gy-dkgry-wht-clr, vfg-fg, rnd-sub rnd, sft, md  
cal, carb incl, fri, nsf, slw str wh cut.

SH 1%: dkgy, pty-sbpsty, slyt, grty, sft, sl cal.

MD 9259 TVD 7439.69

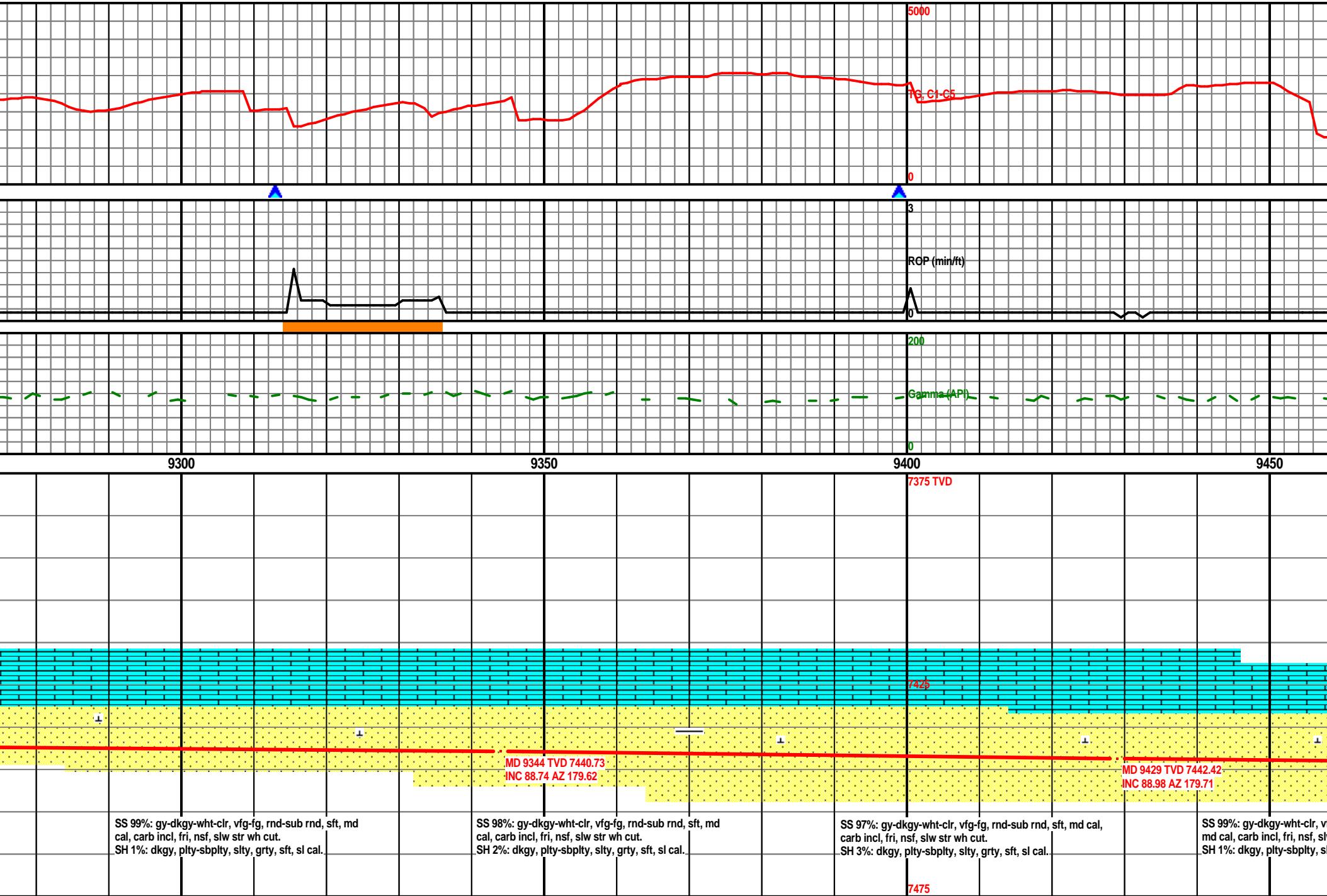
INC 89.85 AZ 180

SS 99%: gy-dkgry-wht-clr, vfg-fg, rnd-sub rnd, sft, md  
cal, carb incl, fri, nsf, slw str wh cut.

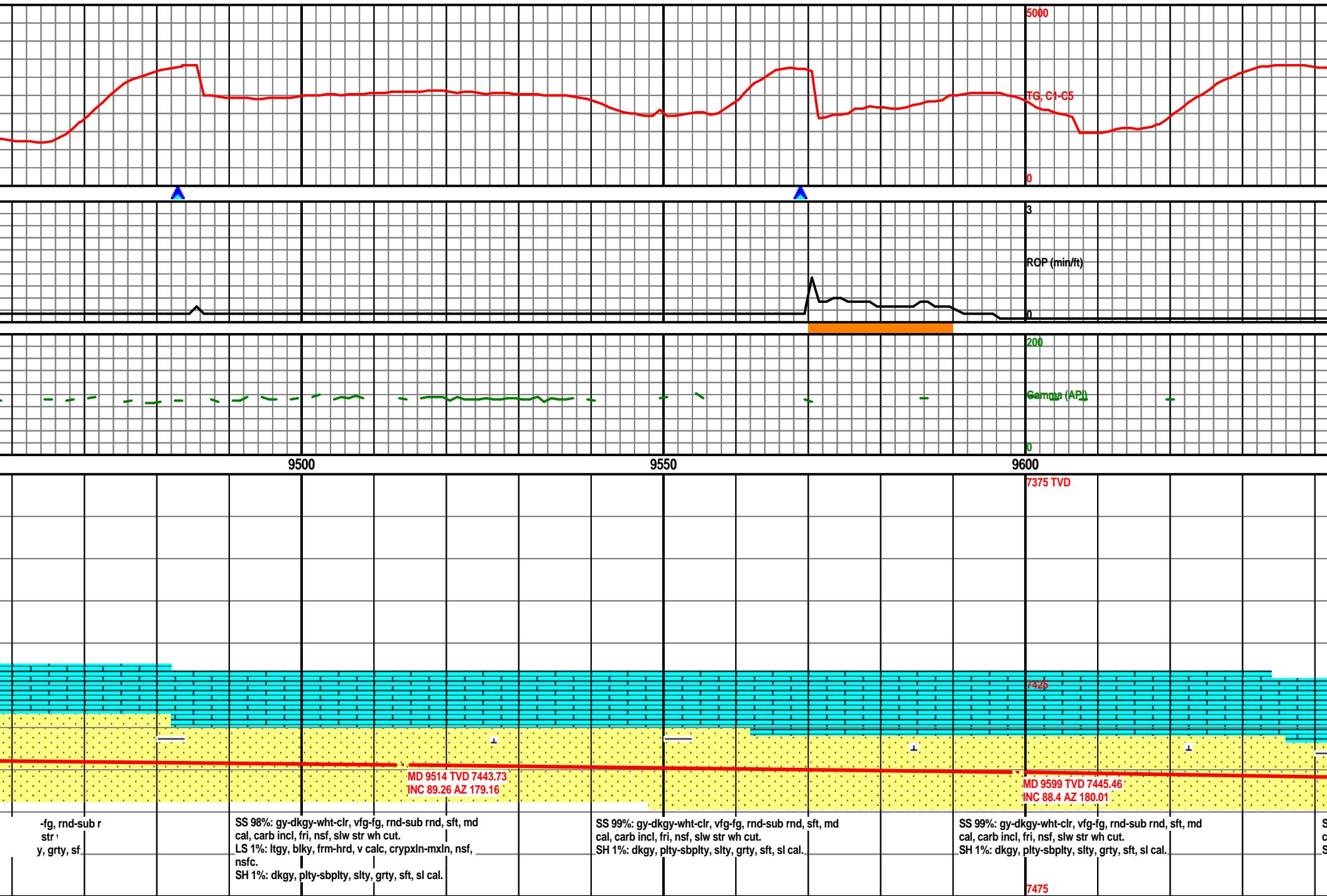
SH 1%: dkgy, pty-sbpsty, slyt, grty, sft, sl cal.

MW 9.30 / VIS 41

MW 9.30 / VIS 41

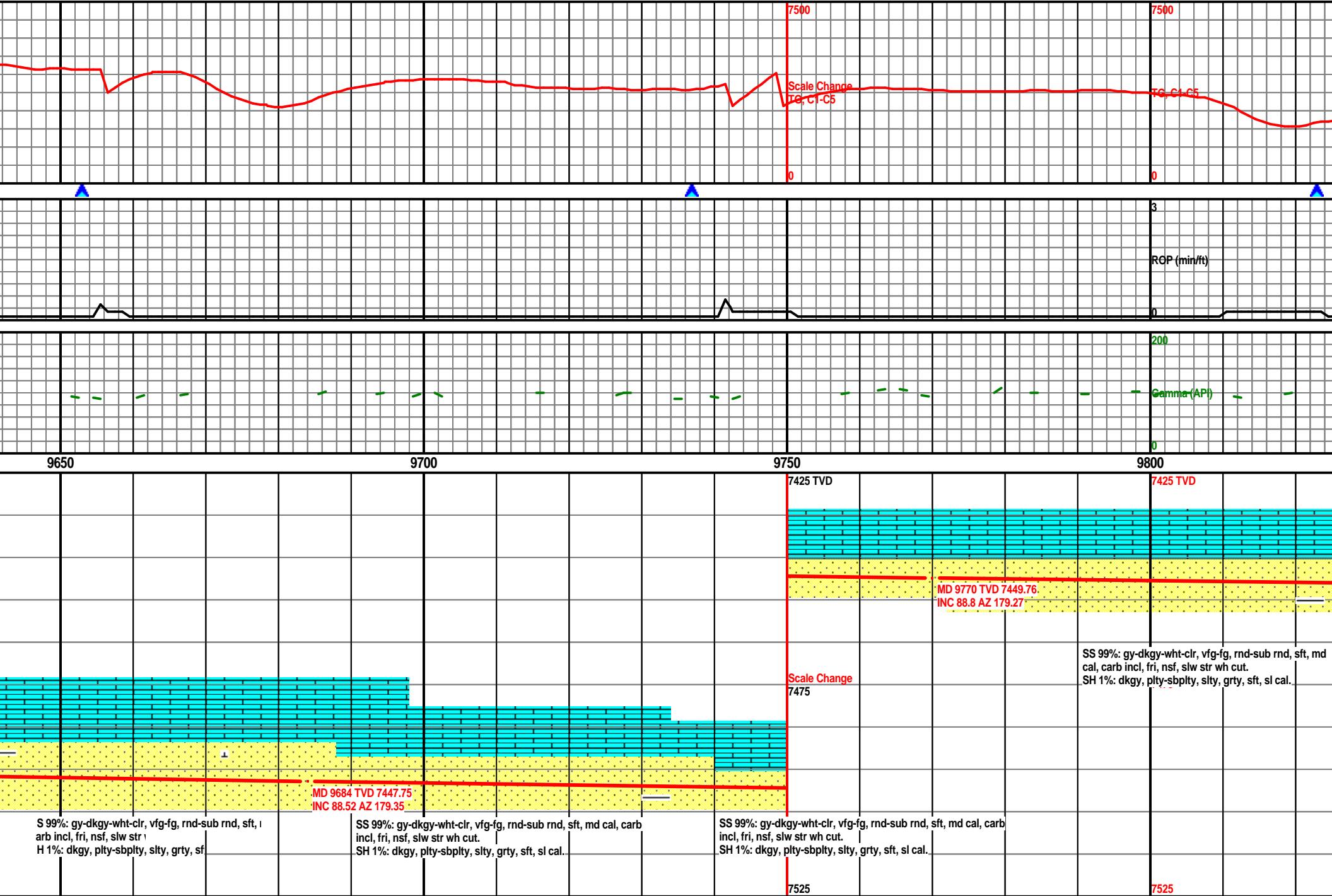


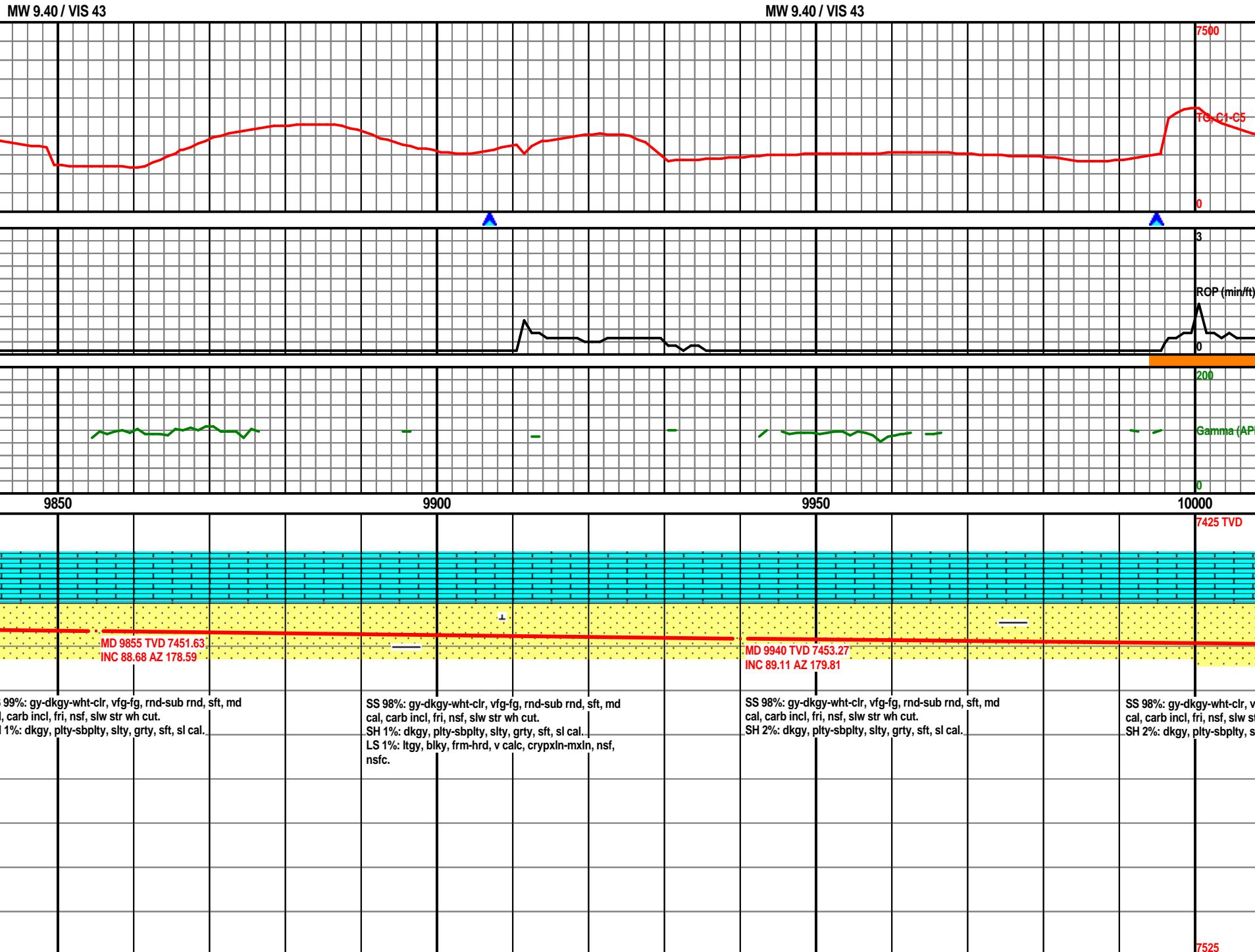
## MW 9.40 / VIS 42



MW 9.40 / VIS 42

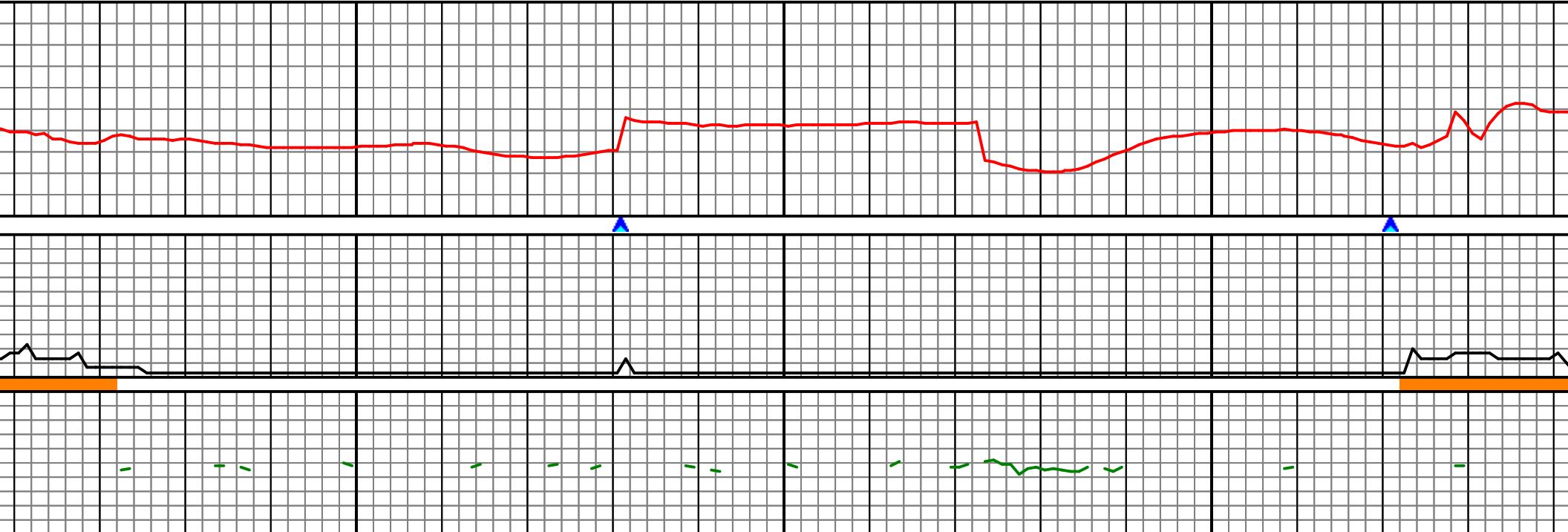
MW 9.40 / VIS 43





MW 9.40 / VIS 43

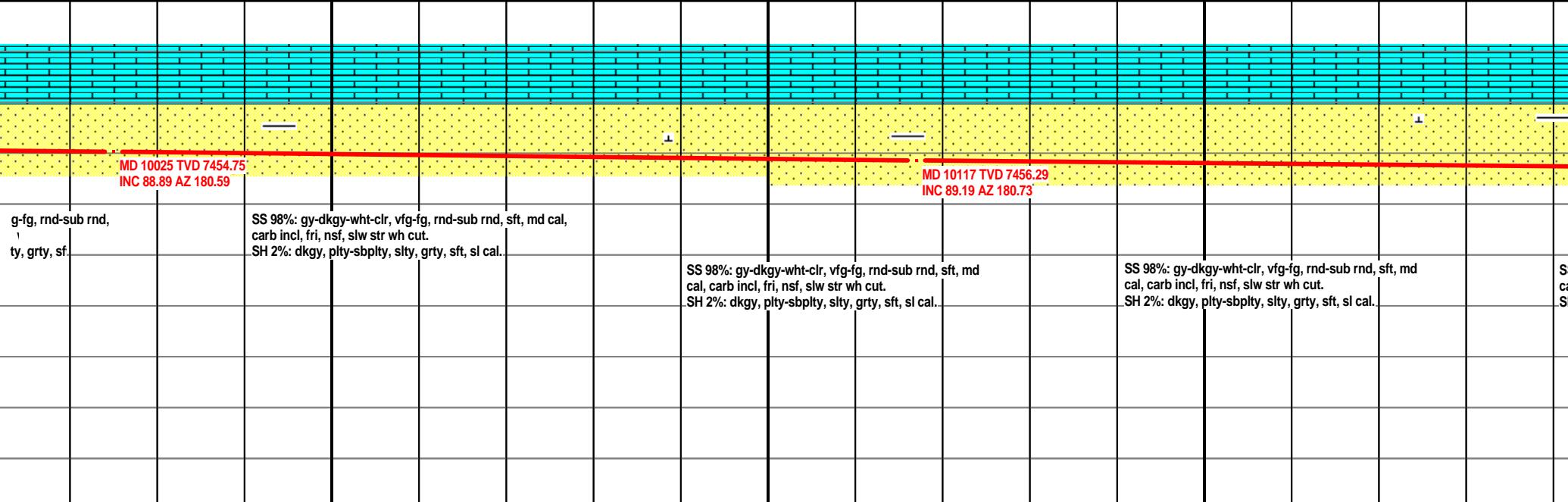
MW 9.35 / VIS 58



10050

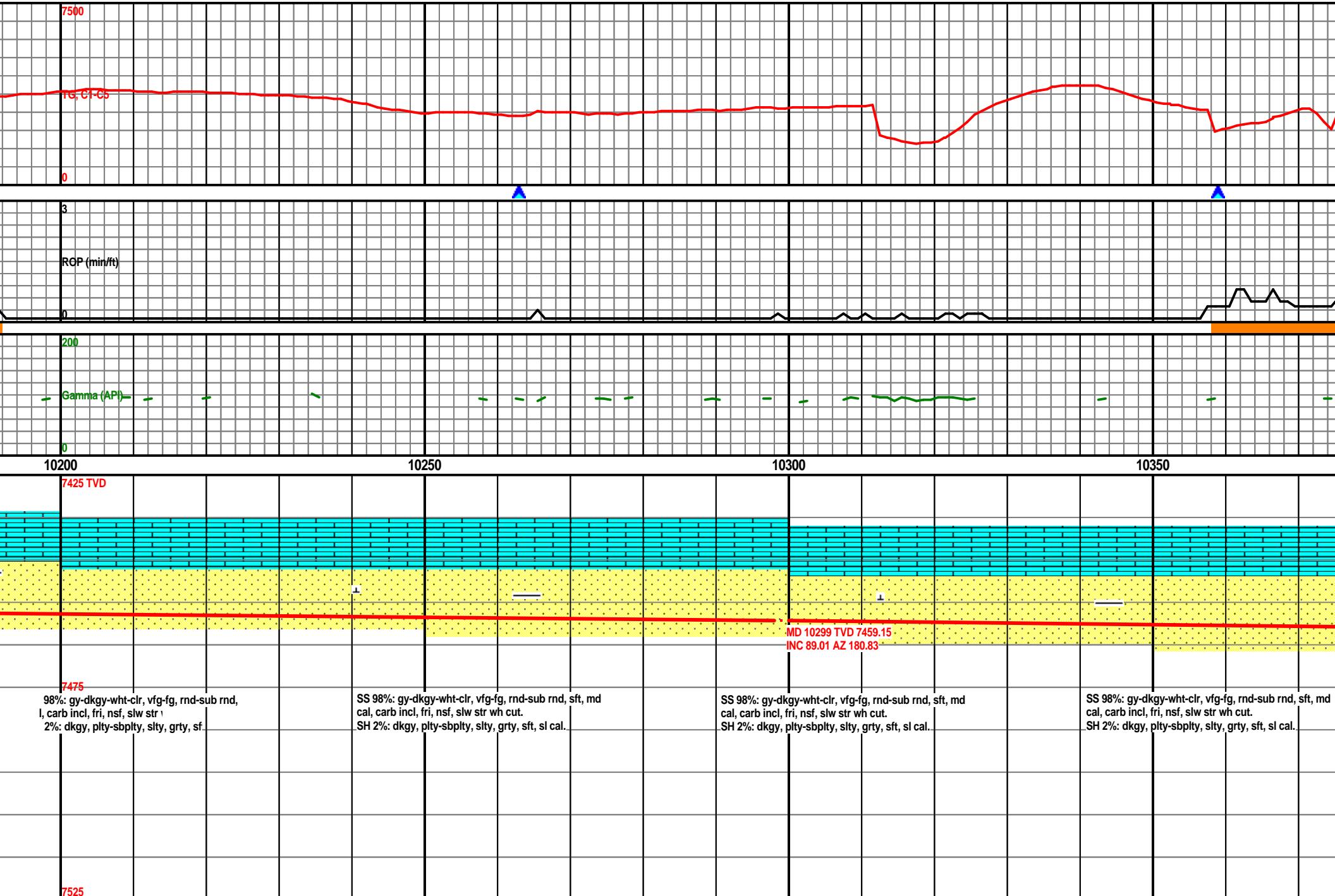
10100

10150



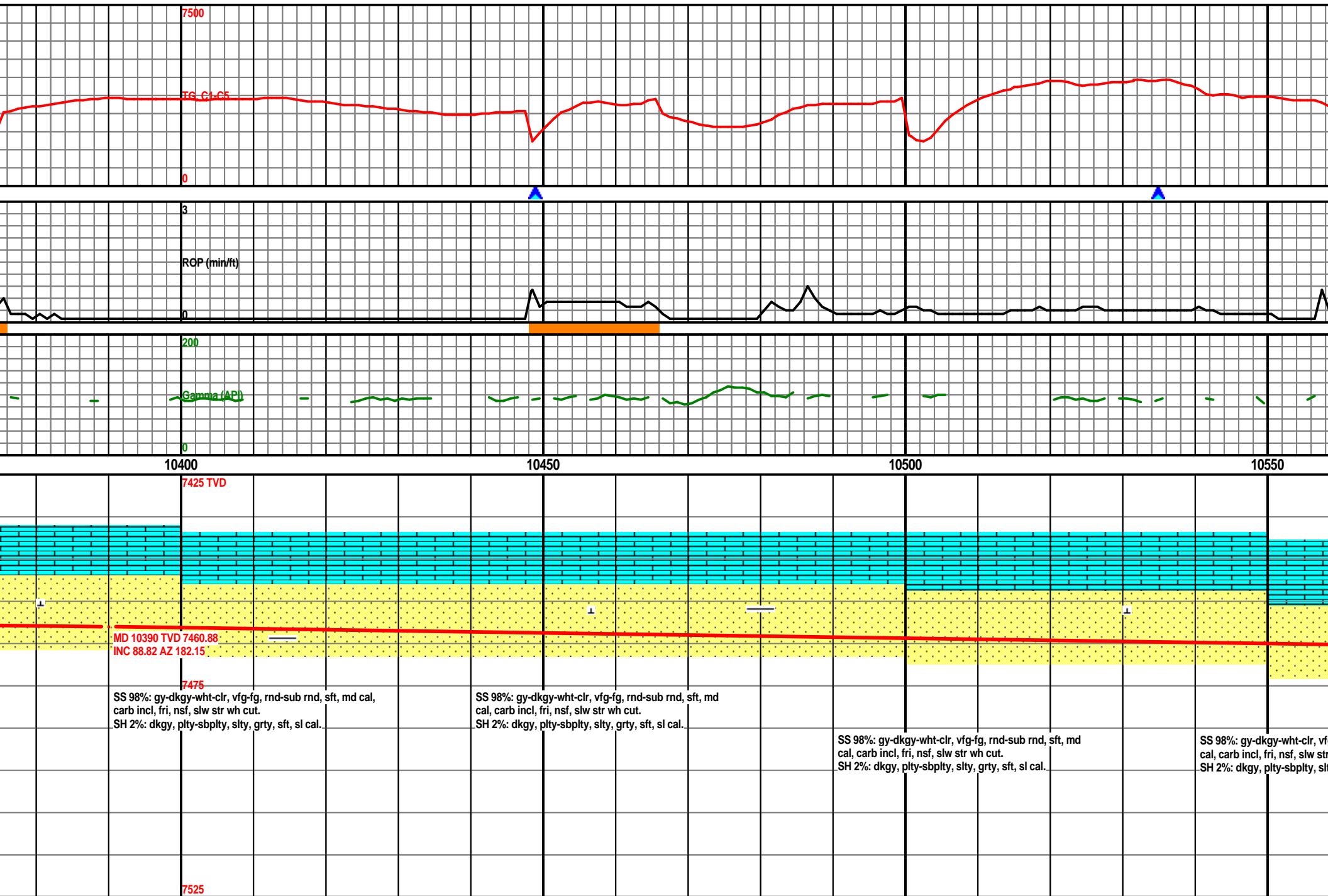
MW 9.35 / VIS 58

MW 9.35 / VIS 58

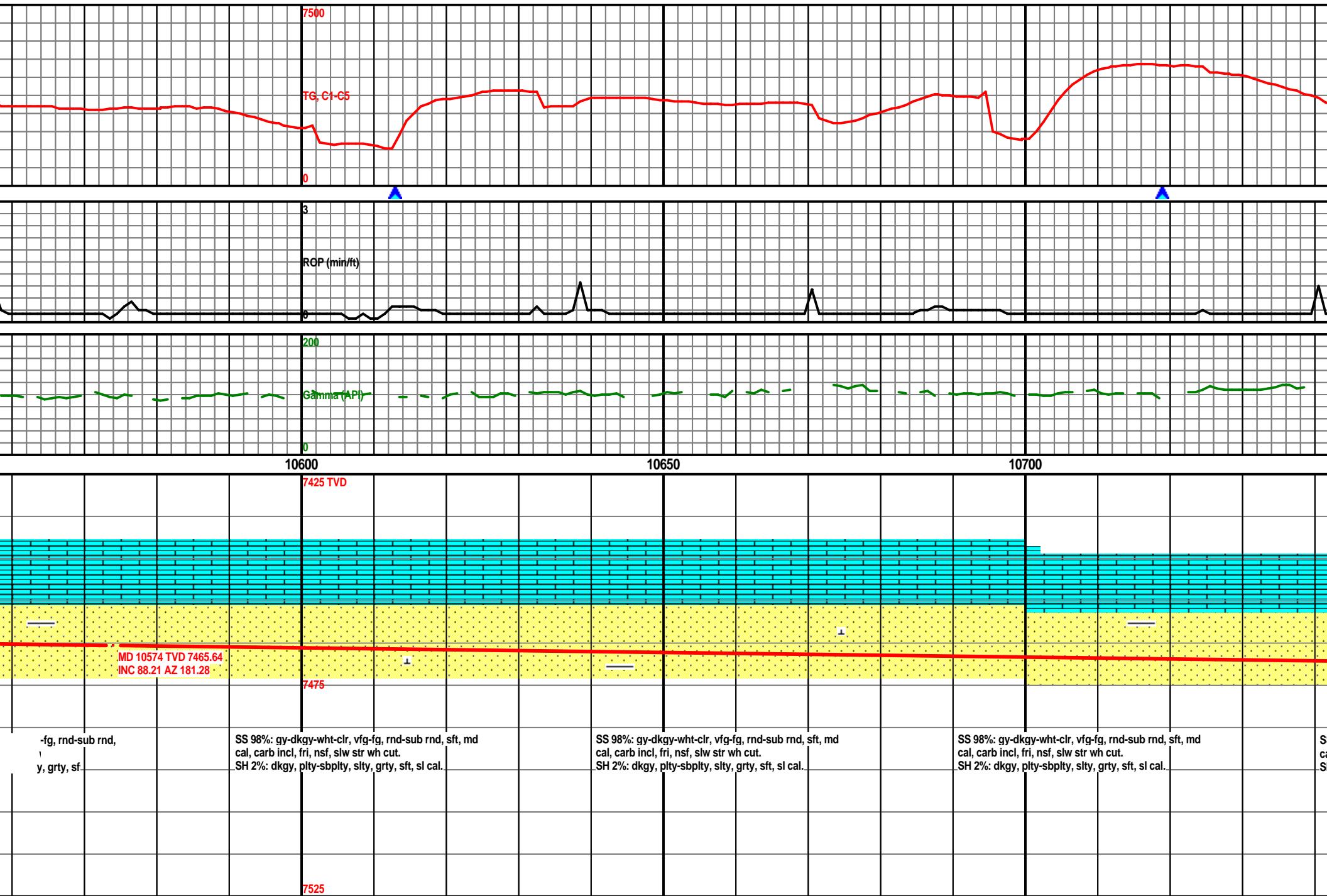


MW 9.35 / VIS 58

MW 9.35 / VIS 58

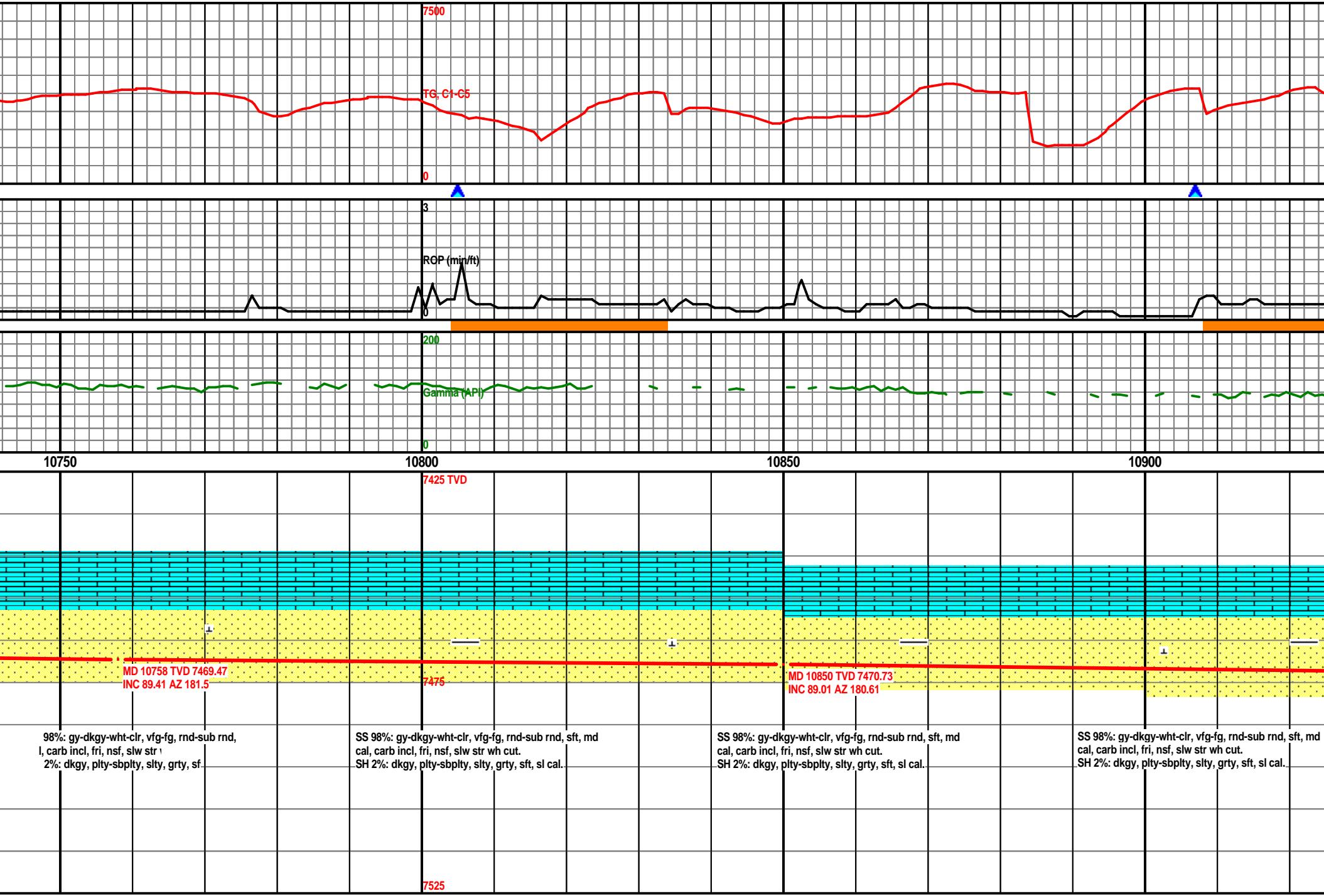


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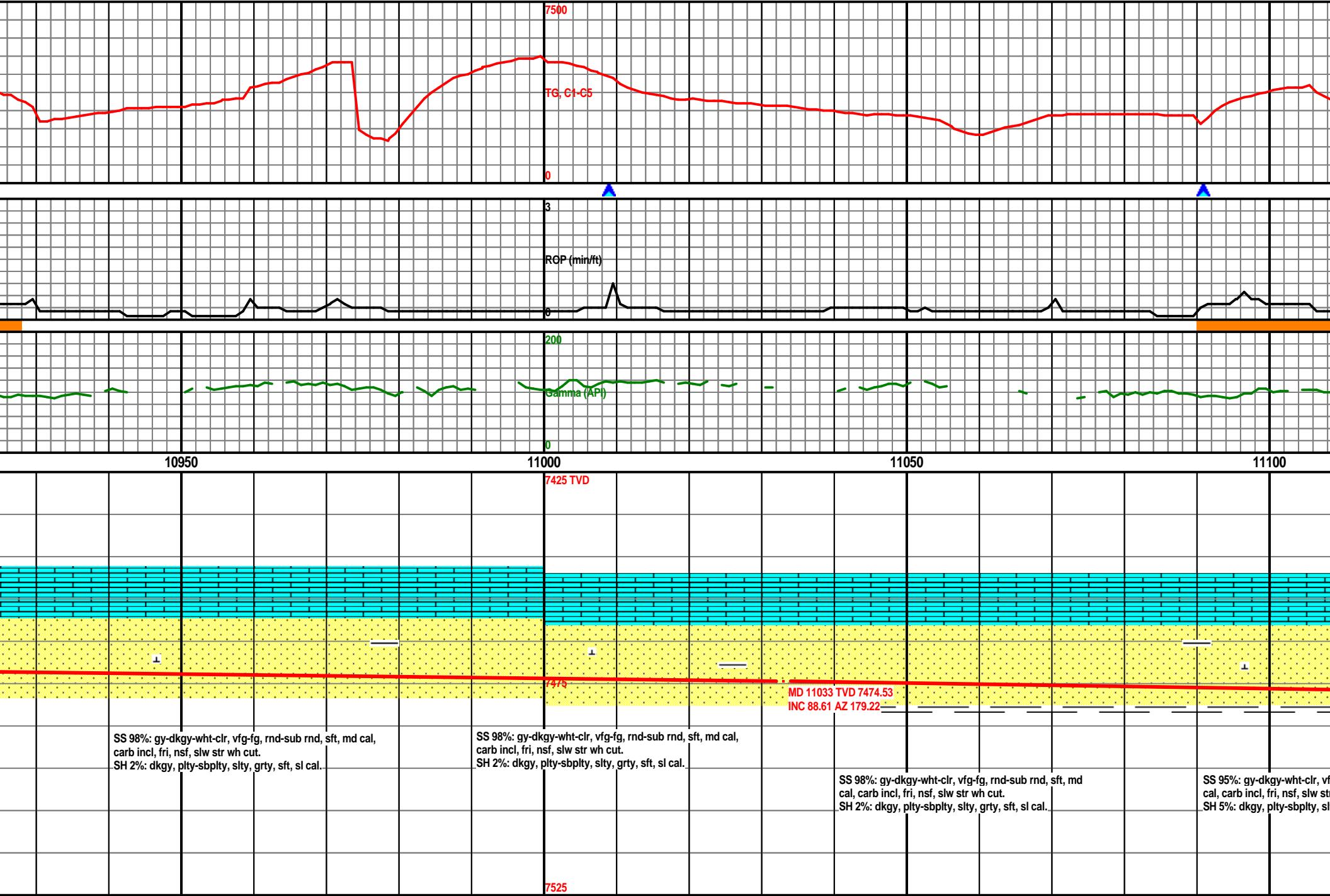
MW 9.50 / VIS 44

MW 9.50 / VIS 44



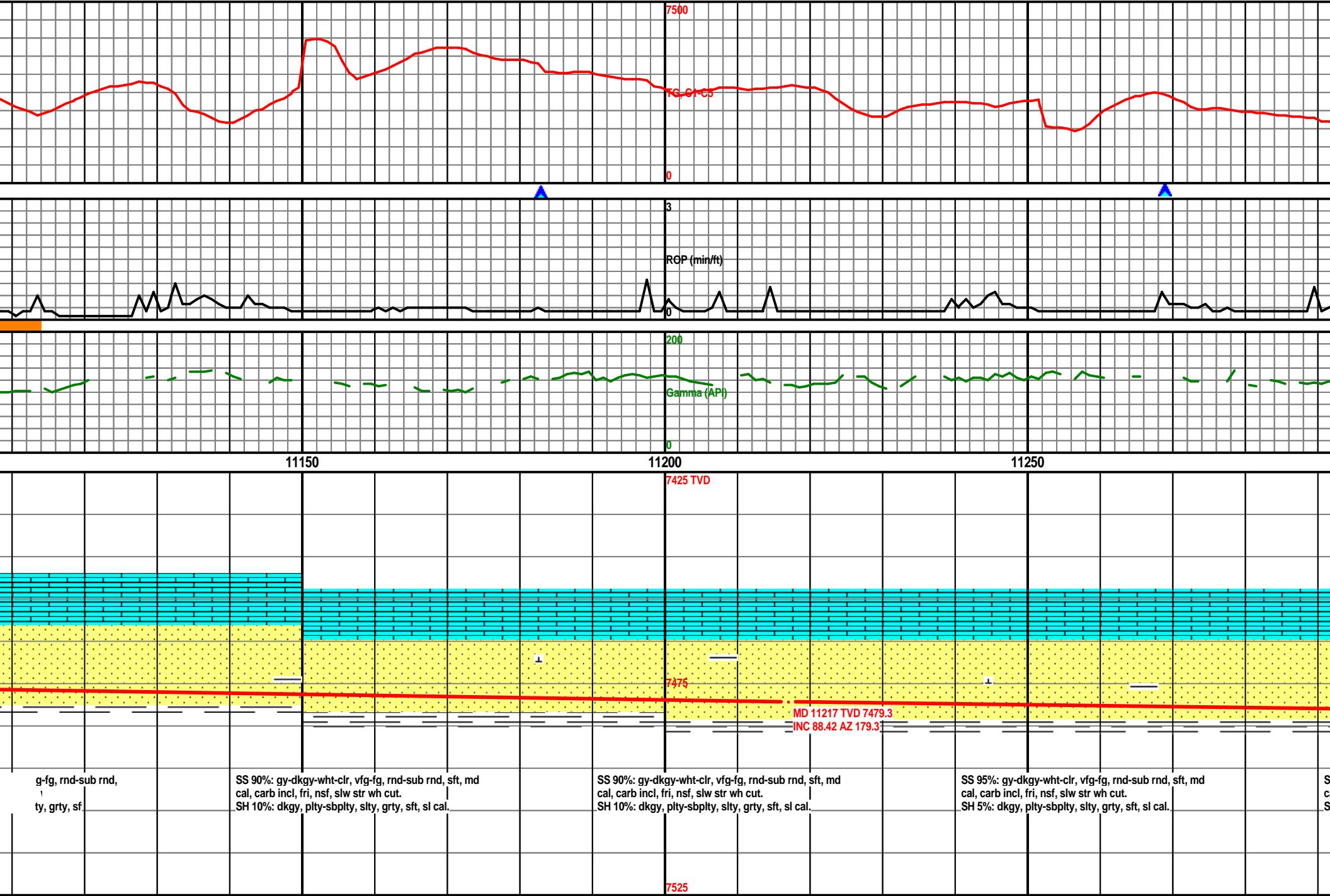
MW 9.50 / VIS 44

MW 9.40 / VIS 50



MW 9.40 / VIS 50

MW 9.40 / VIS 50



MW 9.40 / VIS 50

MW 9.40 / VIS 50

7500

16,64.65

0

3

ROP (min/ft)

200

Gamma (API)

0

11300

11350

11400

11450

7425 TVD

7475

MD 11400 TVD 7483.31

INC 89.07 AZ 178.6

7525

S 95%: gy-dkgry-wht-clr, vfg-fg, rnd-sub rnd,  
l, carb incl, fri, nsf, slw str  
H 5%: dkgy, pfty-sbfty, slyt, grty, sft, sl cal.

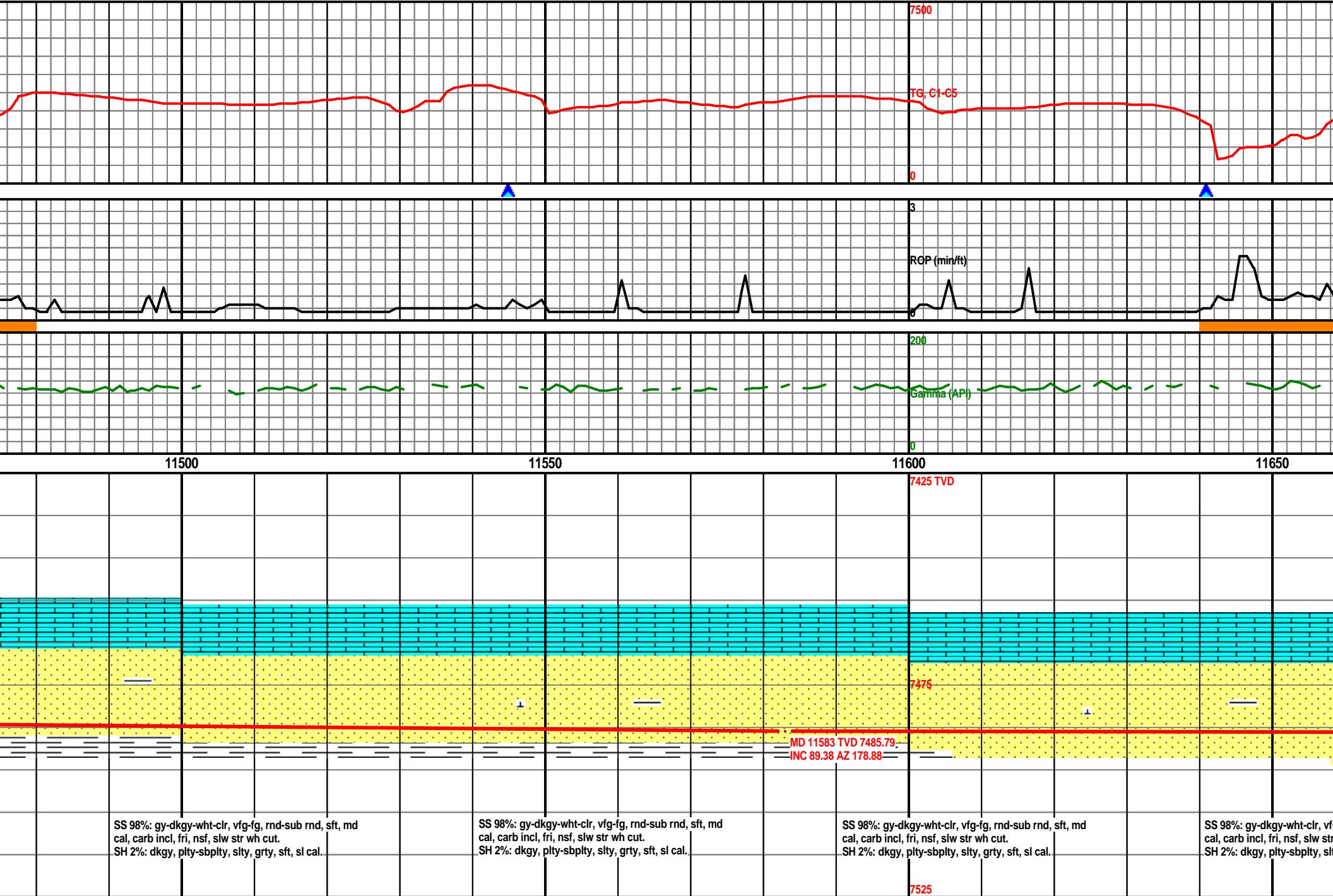
SS 98%: gy-dkgry-wht-clr, vfg-fg, rnd-sub rnd, sft, md cal,  
carb incl, fri, nsf, slw str wh cut.  
SH 2%: dkgy, pfty-sbfty, slyt, grty, sft, sl cal.

SS 98%: gy-dkgry-wht-clr, vfg-fg, rnd-sub rnd, sft, md  
cal, carb incl, fri, nsf, slw str wh cut.  
SH 2%: dkgy, pfty-sbfty, slyt, grty, sft, sl cal.

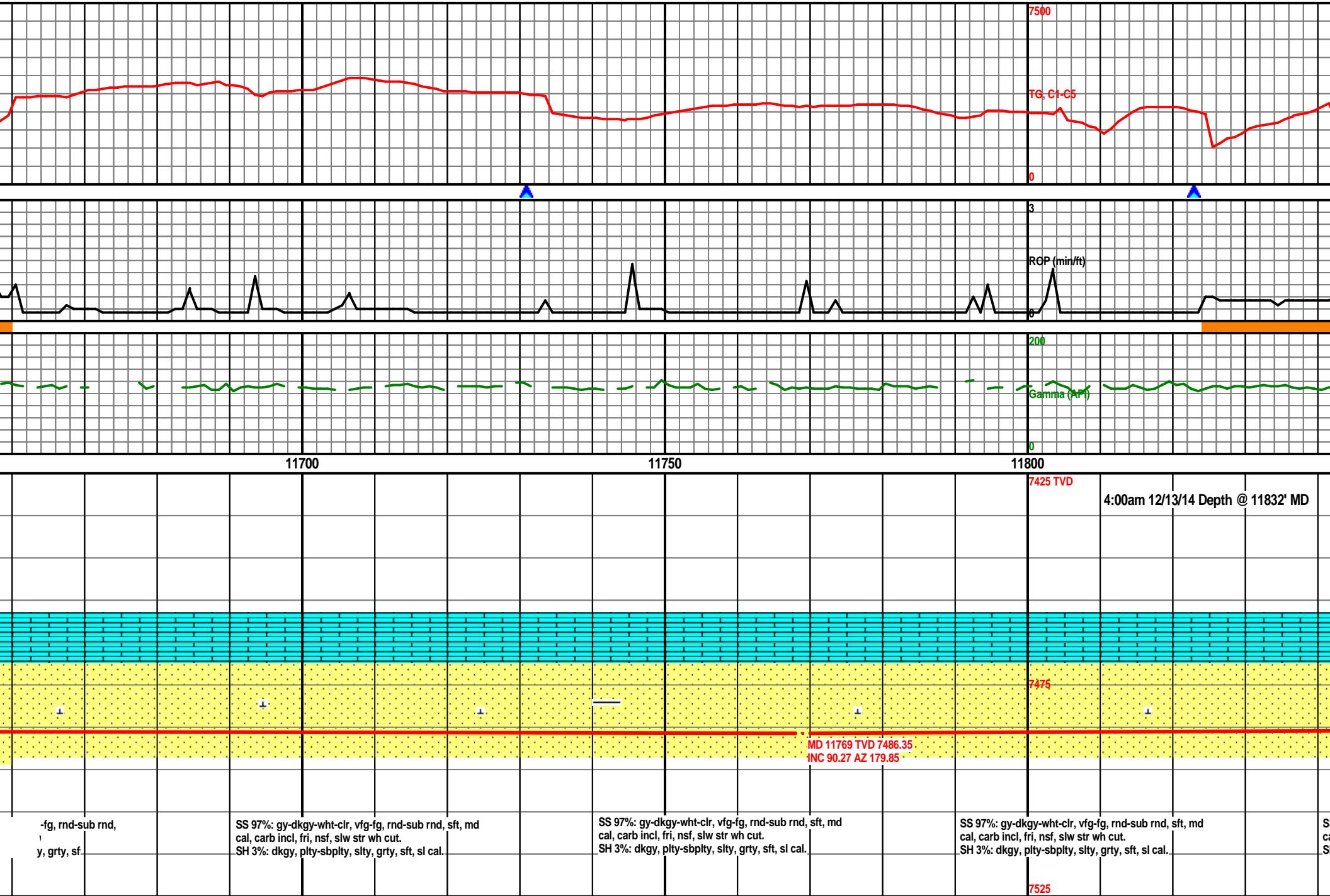
SS 98%: gy-dkgry-wht-clr, vfg-fg, rnd-sub rnd, sft, md  
cal, carb incl, fri, nsf, slw str wh cut.  
SH 2%: dkgy, pfty-sbfty, slyt, grty, sft, sl cal..

MW 9.40 / VIS 50

MW 9.40 / VIS 50

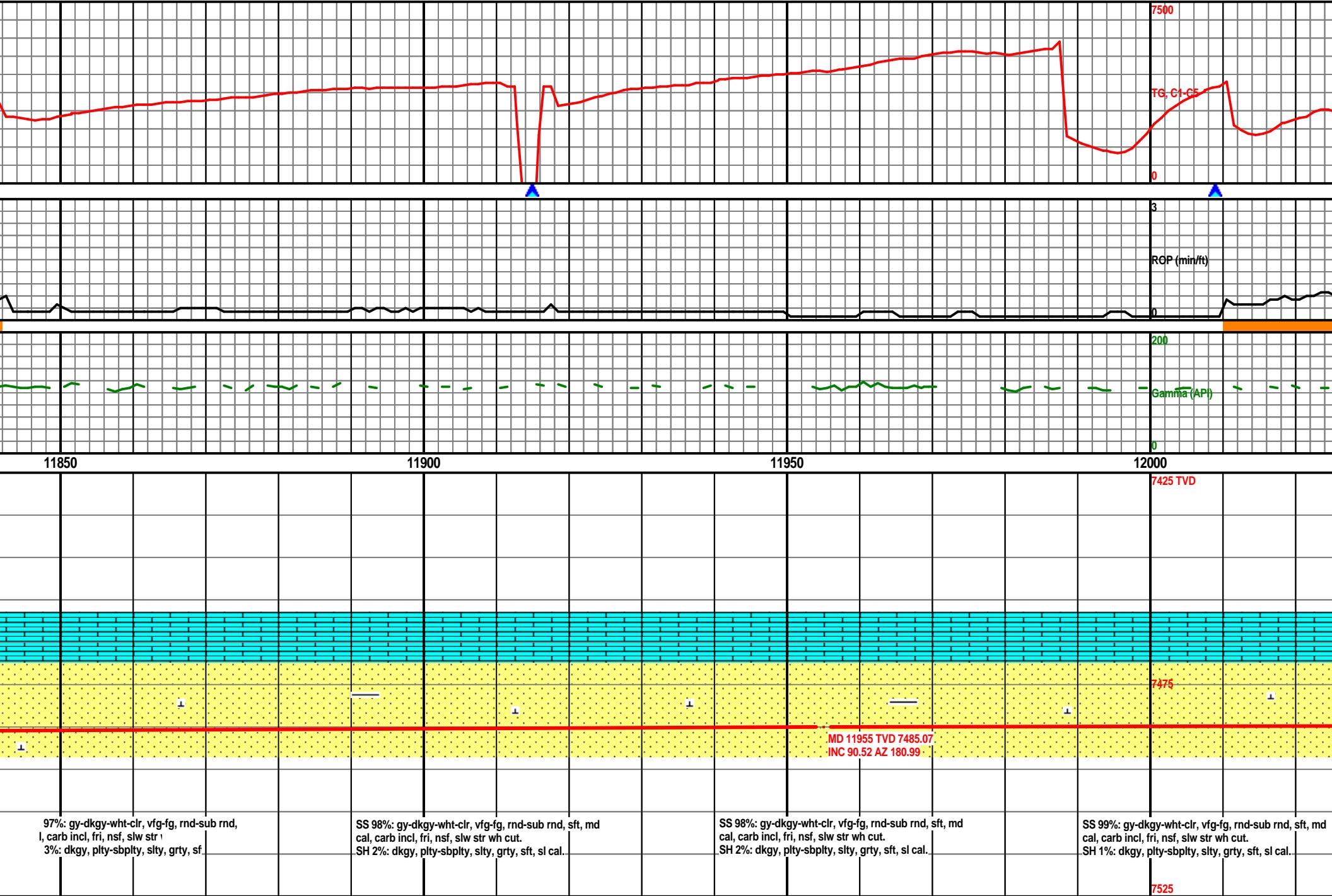


## MW 9.40 / VIS 50



MW 9.40 / VIS 45

MW 9.40 / VIS 45



MW 9.40 / VIS 45

MW 9.40 / VIS 49

7500

TG, C1-C5

0

ROP (min/ft)

200

Gamma (API)

0

12050

12100

12150

12200

7425 TVD

7475

MD 12048 TVD 7484.73  
INC 89.9 AZ 179.43

MD 12142 TVD 7484.76  
INC 90.06 AZ 180.58

SS 99%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft, md cal, carb incl, fri, nsf, slw str wh cut.  
SH 1%: dkgy, pfty-sbpsty, sity, grty, sft, sl cal.

SS 100%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft, md cal, carb incl, fri, nsf, slw str wh cut.  
SH tr: dkgy, pfty-sbpsty, sity, grty, sft, sl cal.

SS 100%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft, md cal, carb incl, fri, nsf, slw str wh cut.  
SH tr: dkgy, pfty-sbpsty, sity, grty, sft, sl cal.

SS 99%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft, md cal, carb incl, fri, nsf, slw str wh cut.  
SH 1%: dkgy, pfty-sbpsty, sity, grty, sft, sl cal.

7525

MW 9.40 / VIS 49

MW 9.50 / VIS 48

12250

12300

12350

MD 12234 TVD 7484.22  
INC 90.62 AZ 179.75

MD 12327 TVD 7482.99  
INC 90.89 AZ 179.91

-fg, rnd-sub rnd,  
y, grty, sf

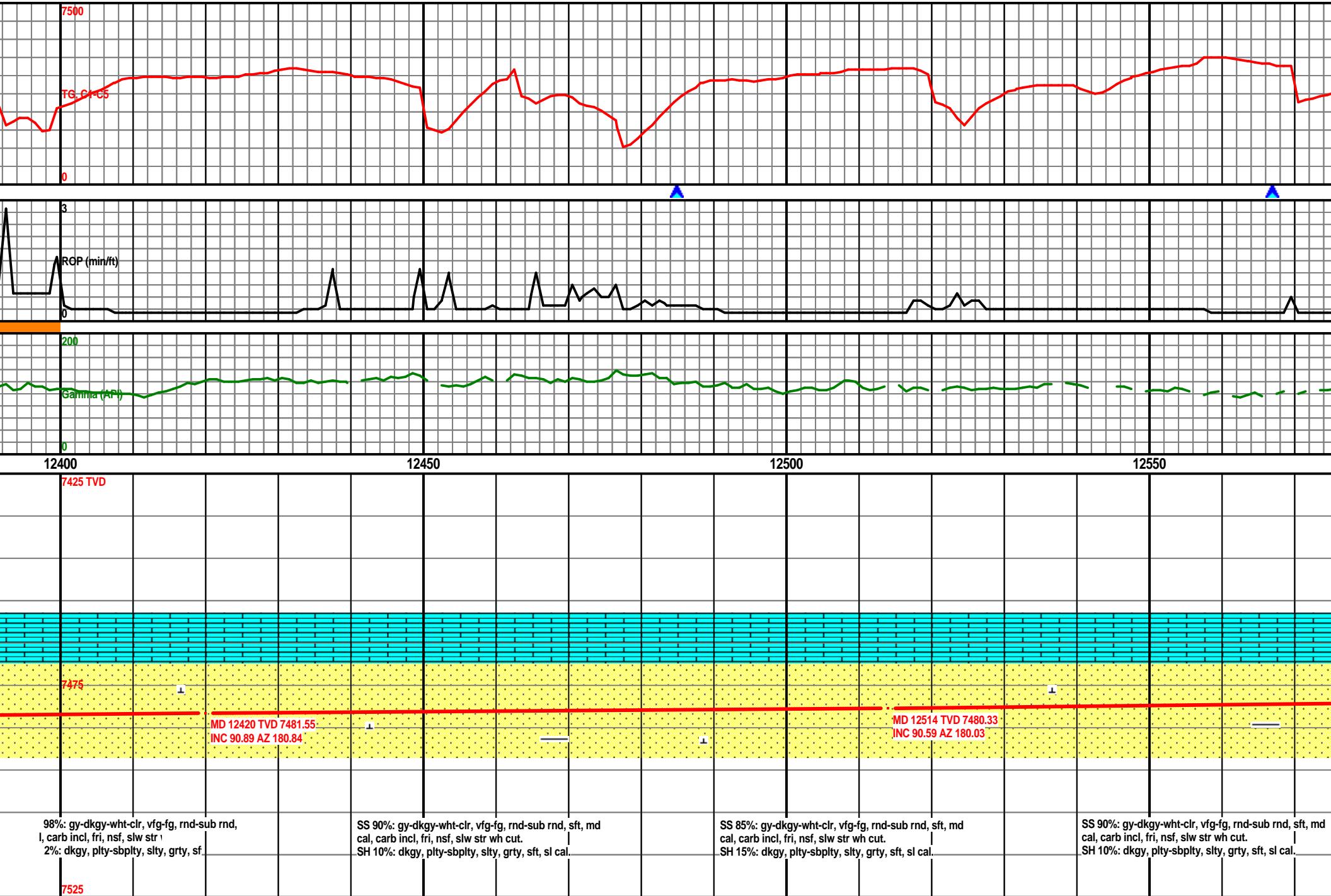
SS 99%: gy-dkgry-wht-clr, vfg-fg, rnd-sub rnd, sft, md  
cal, carb incl, fri, nsf, slw str wh cut.  
SH 1%: dkgy, pfty-sbplty, sly, grty, sft, sl cal.

SS 99%: gy-dkgry-wht-clr, vfg-fg, rnd-sub rnd, sft, md  
cal, carb incl, fri, nsf, slw str wh cut.  
SH 1%: dkgy, pfty-sbplty, sly, grty, sft, sl cal.

SS 98%: gy-dkgry-wht-clr, vfg-fg, rnd-sub rnd, sft, md cal, carb  
incl, fri, nsf, slw str wh cut.  
SH 2%: dkgy, pfty-sbplty, sly, grty, sft, sl cal.

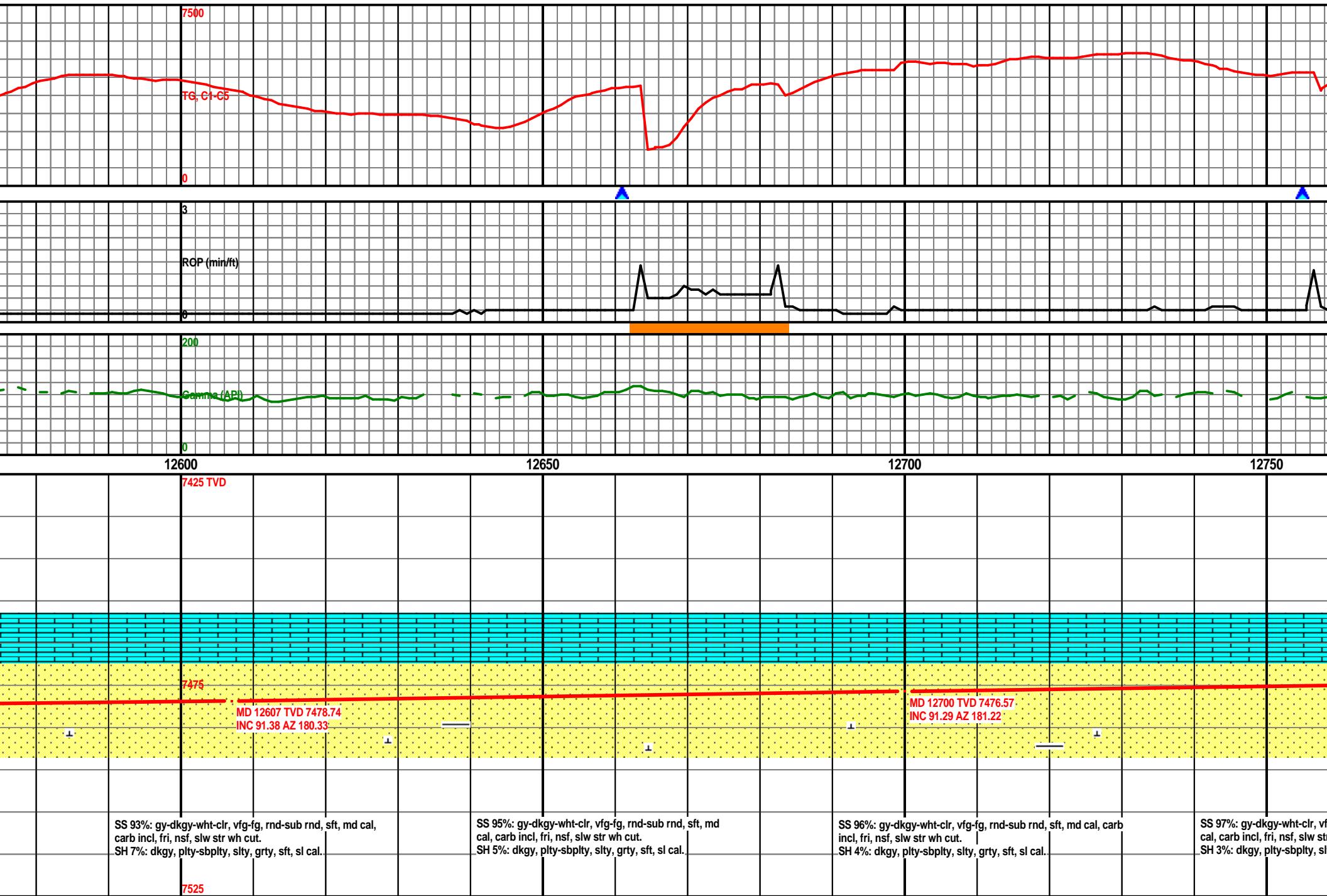
MW 9.50 / VIS 48

MW 9.40 / VIS 48

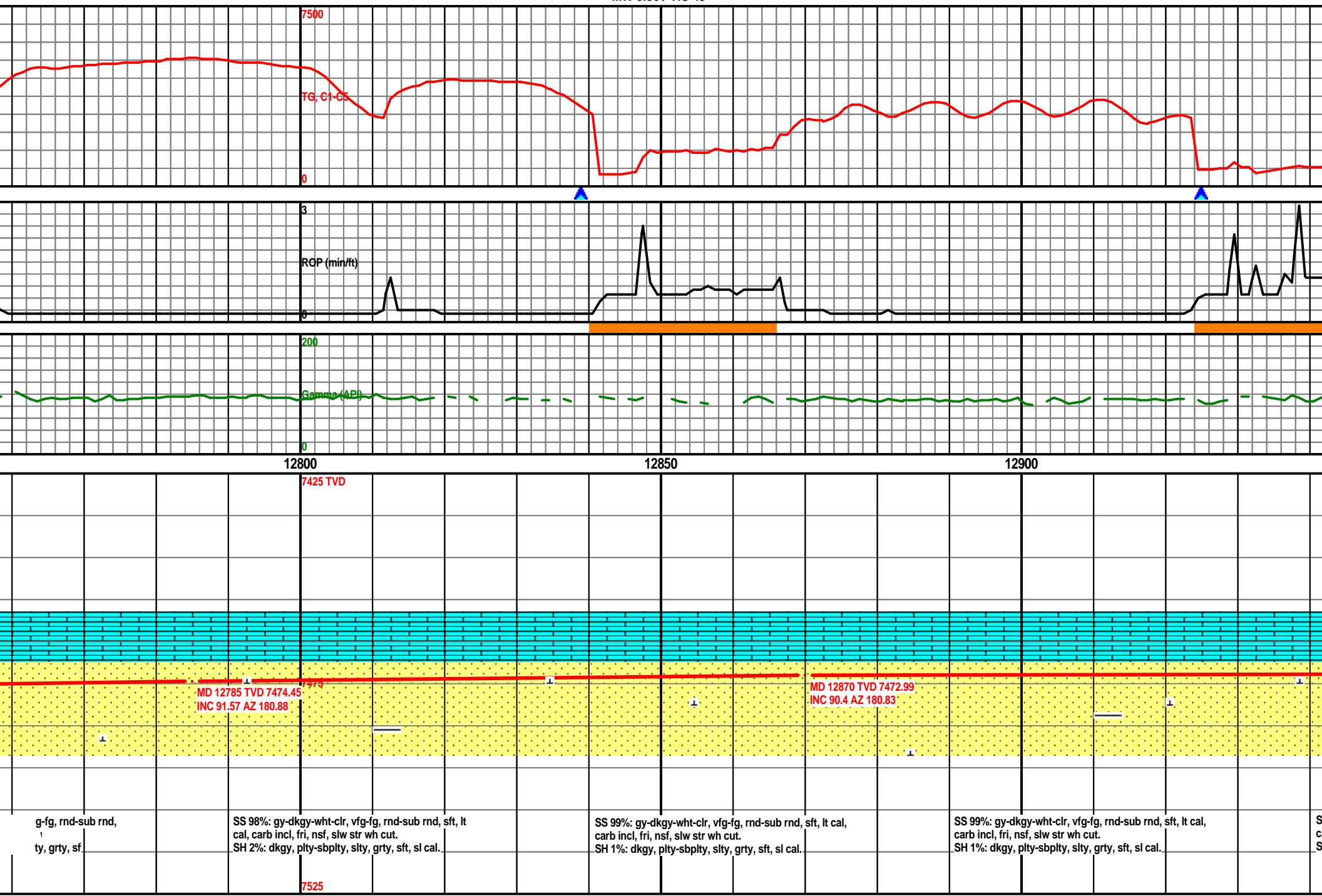


MW 9.50 / VIS 48

MW 9.50 / VIS 48

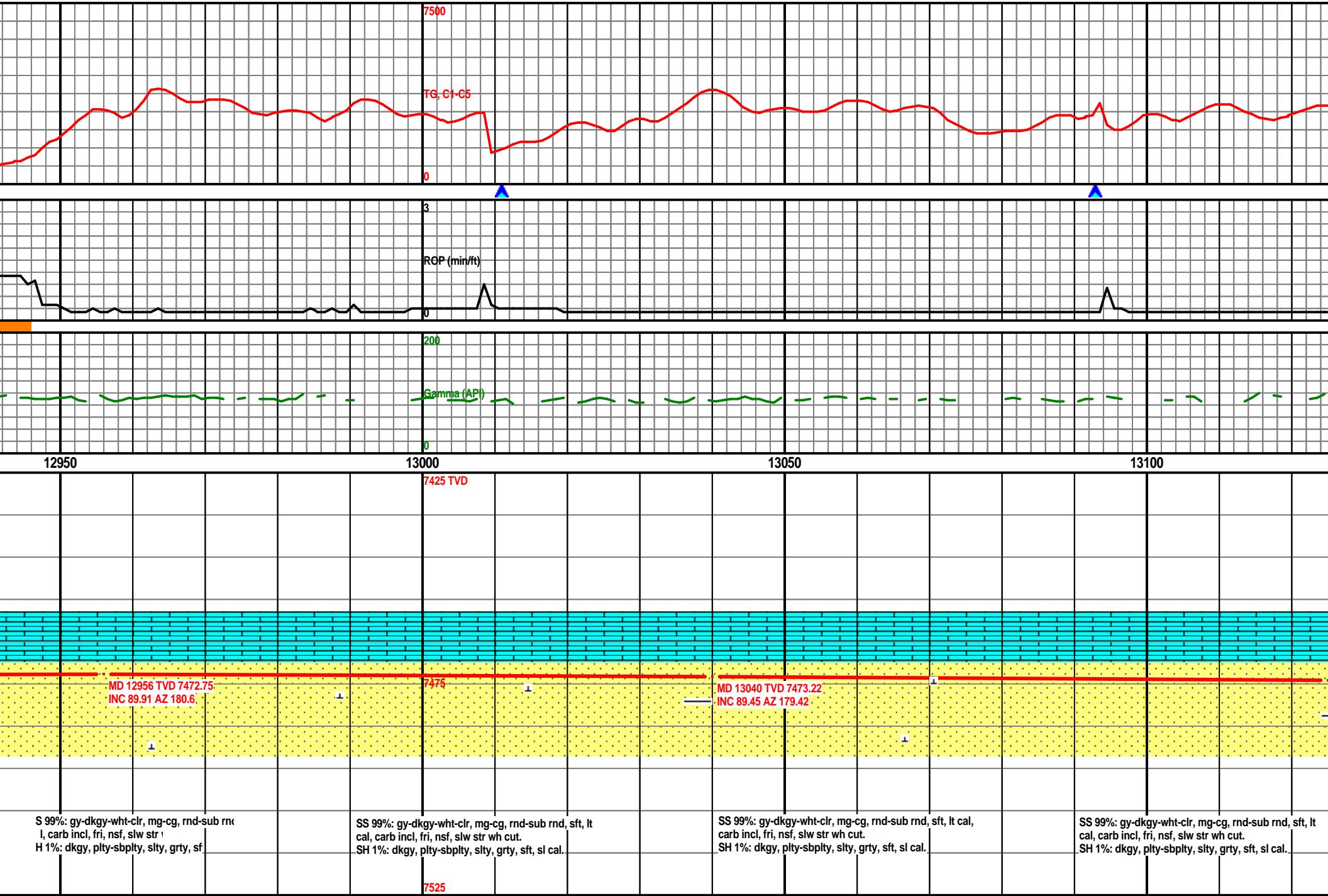


## MW 9.30 / VIS 43



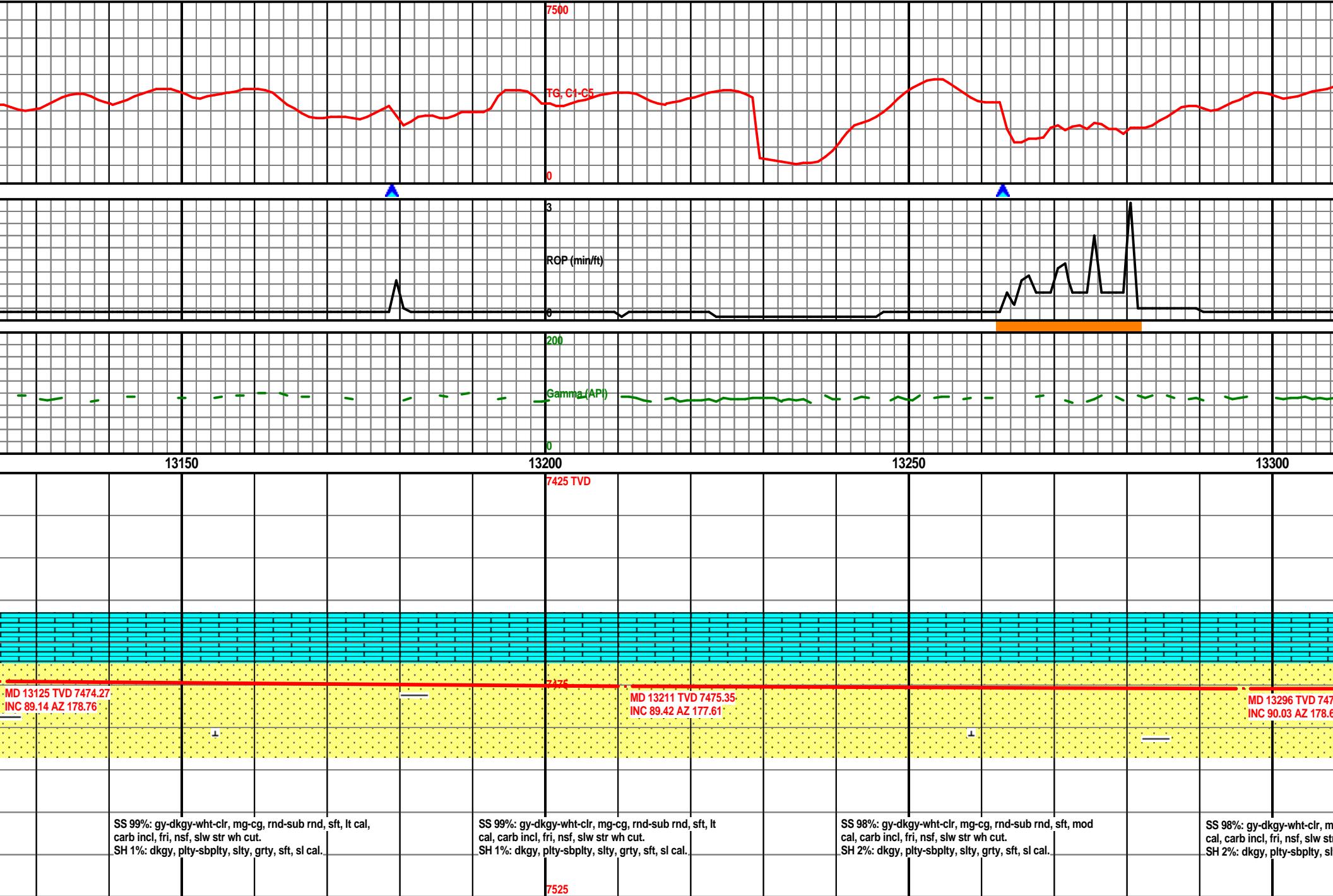
MW 9.30 / VIS 43

MW 9.30 / VIS 43



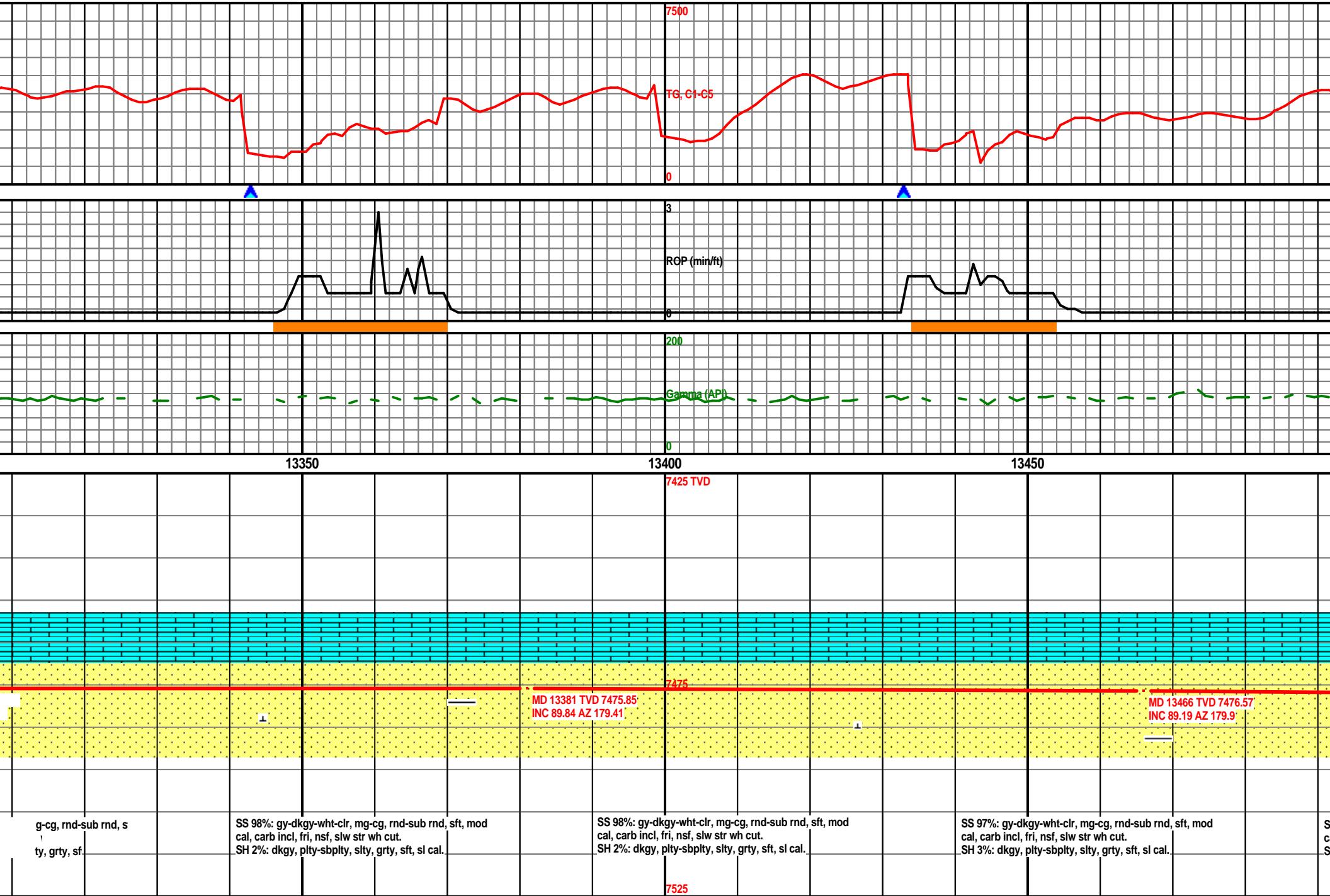
MW 9.30 / VIS 43

MW 9.40 / VIS 45



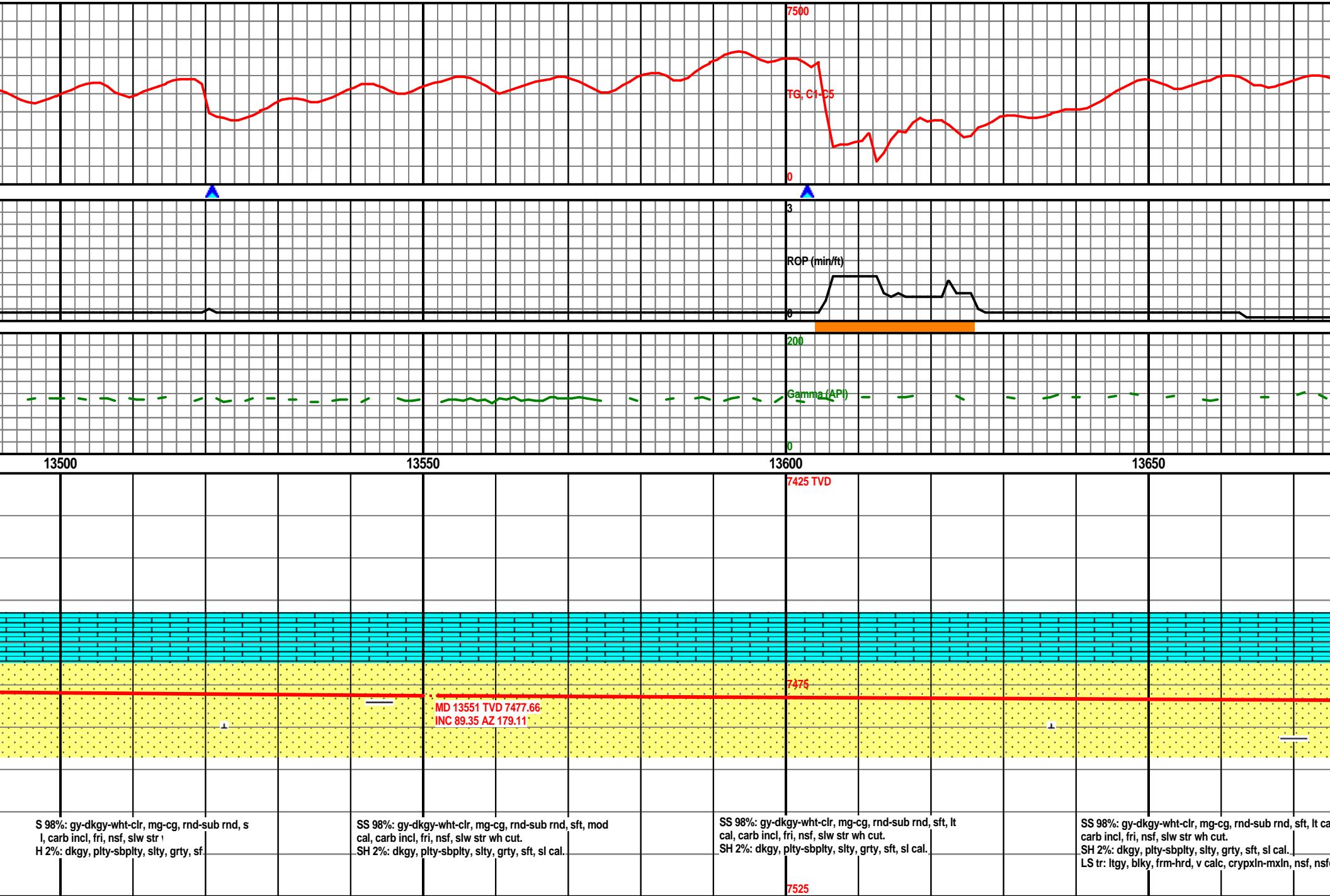
MW 9.40 / VIS 45

MW 9.40 / VIS 45



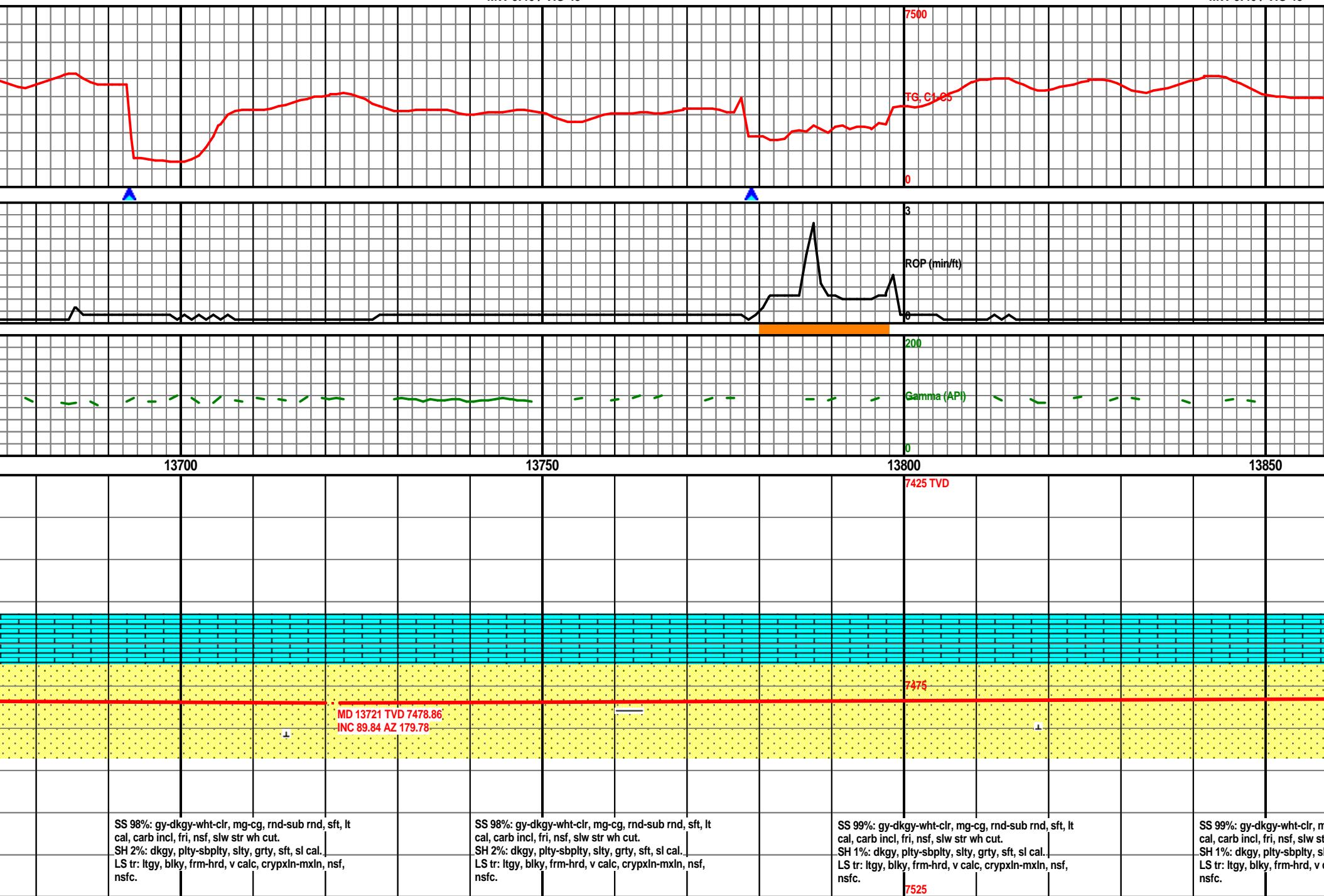
MW 9.40 / VIS 45

MW 9.40 / VIS 45

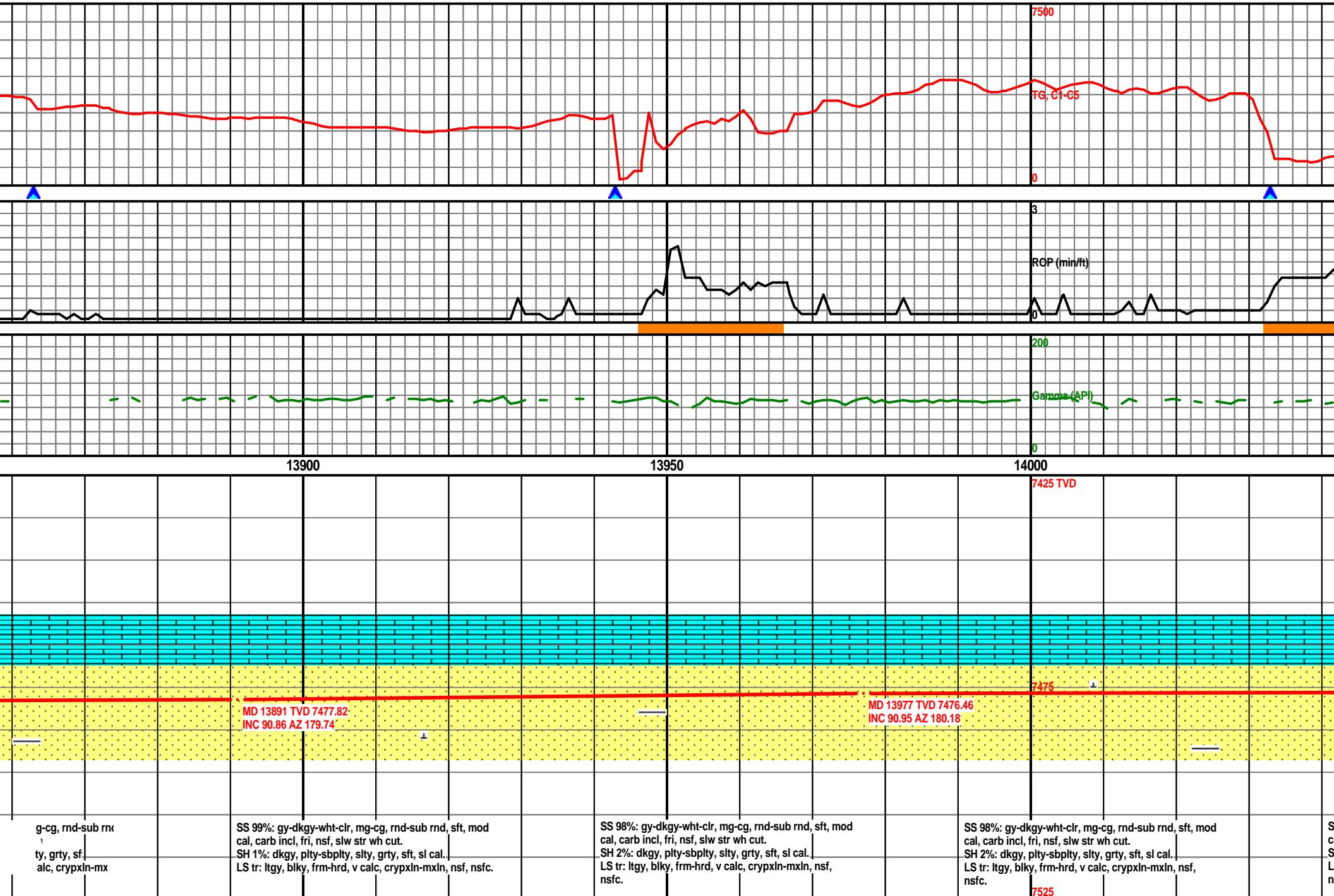


MW 9.40 / VIS 45

MW 9.40 / VIS 45

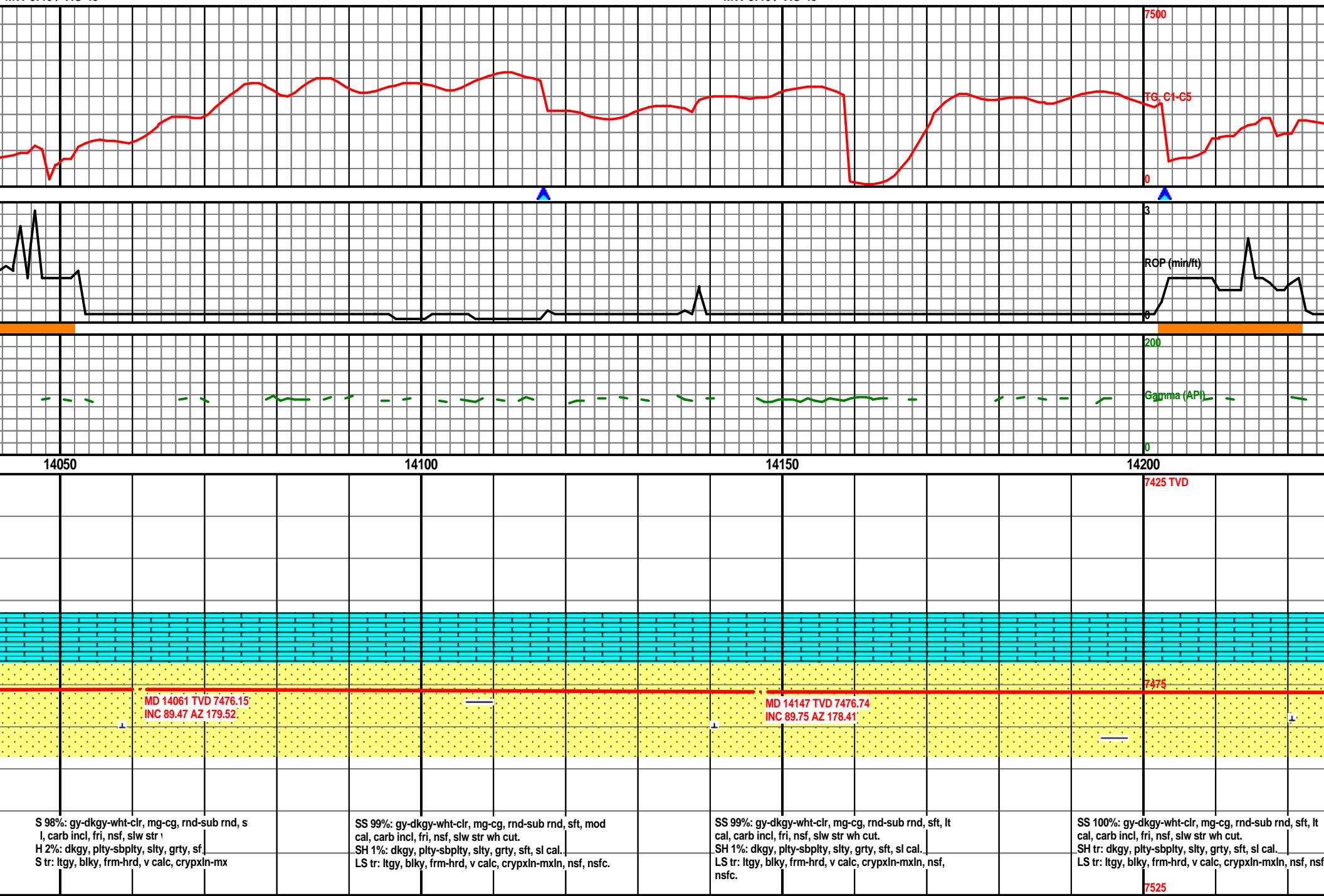


MW 9.40 / VIS 45



MW 9.40 / VIS 45

MW 9.40 / VIS 45



MW 9.40 / VIS 45

MW 9.30 / VIS 47

7500

10.04.05

0

ROP (min/ft)

200

Gamma (API)

14250

14300

14350

14400

7425 TVD

7475

MD 14  
INC 85

SS 100%: gy-dkgry-wht-clr, mg-cg, rnd-sub rnd, sft, lt cal,  
carb incl, fri, nsf, slw str wh cut.  
SH tr: dkgy, pty-sbpsty, sly, grty, sft, sl cal.  
LS tr: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, nsfc.

SS 99%: gy-dkgry-wht-clr, mg-cg, rnd-sub rnd, sft, lt cal,  
carb incl, fri, nsf, slw str wh cut.  
SH 1%: dkgy, pty-sbpsty, sly, grty, sft, sl cal.  
LS tr: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, nsfc.

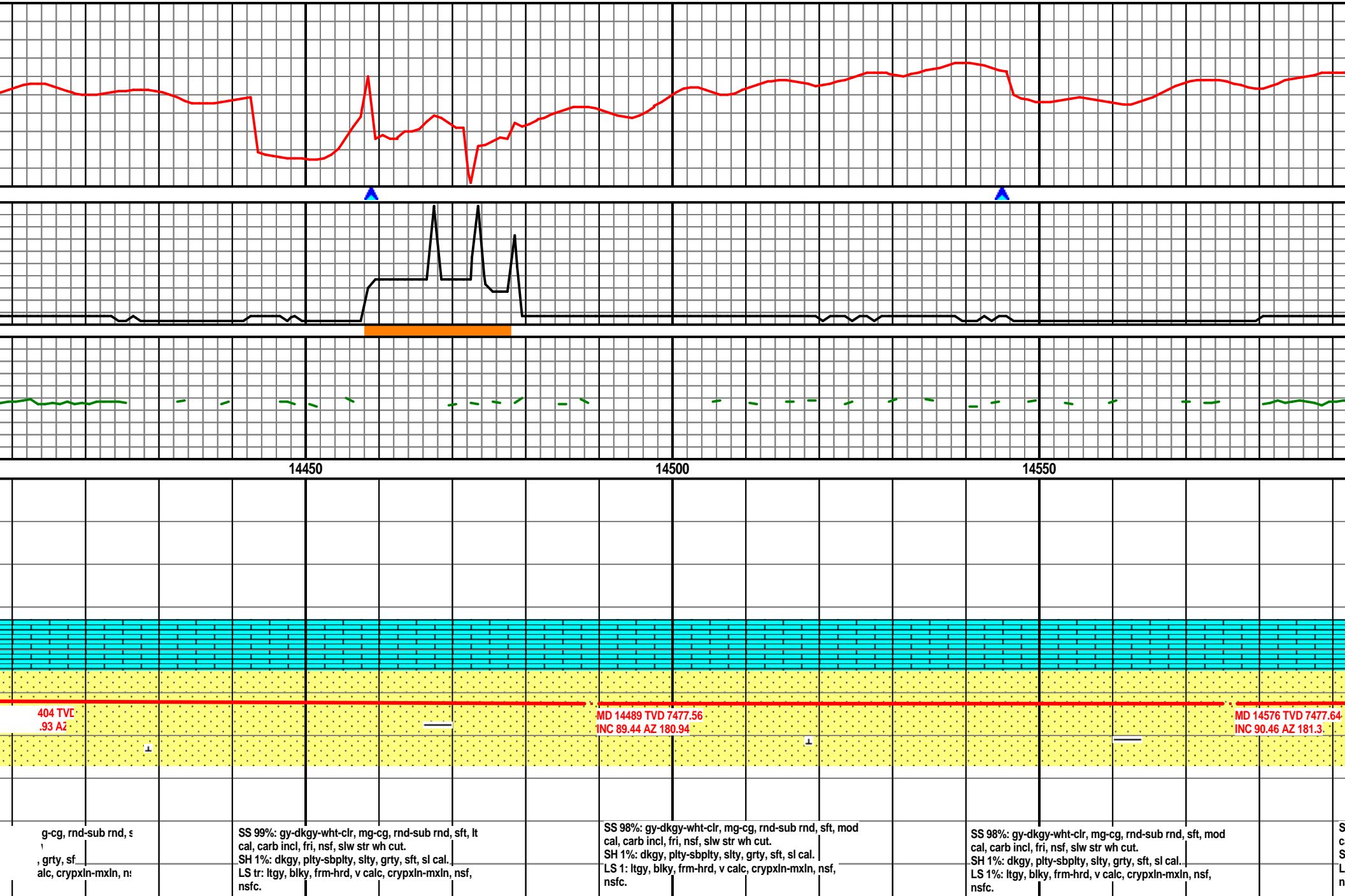
SS 99%: gy-dkgry-wht-clr, mg-cg, rnd-sub rnd, sft, mod  
cal, carb incl, fri, nsf, slw str wh cut.  
SH 1%: dkgy, pty-sbpsty, sly, grty, sft, sl cal.  
LS tr: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf,  
nsfc.

SS 100%: gy-dkgry-wht-clr,  
cal, carb incl, fri, nsf, slw str wh cut.  
SH tr: dkgy, pty-sbpsty, sly, grty, sft, sl cal.  
LS tr: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf,  
nsfc.

7525

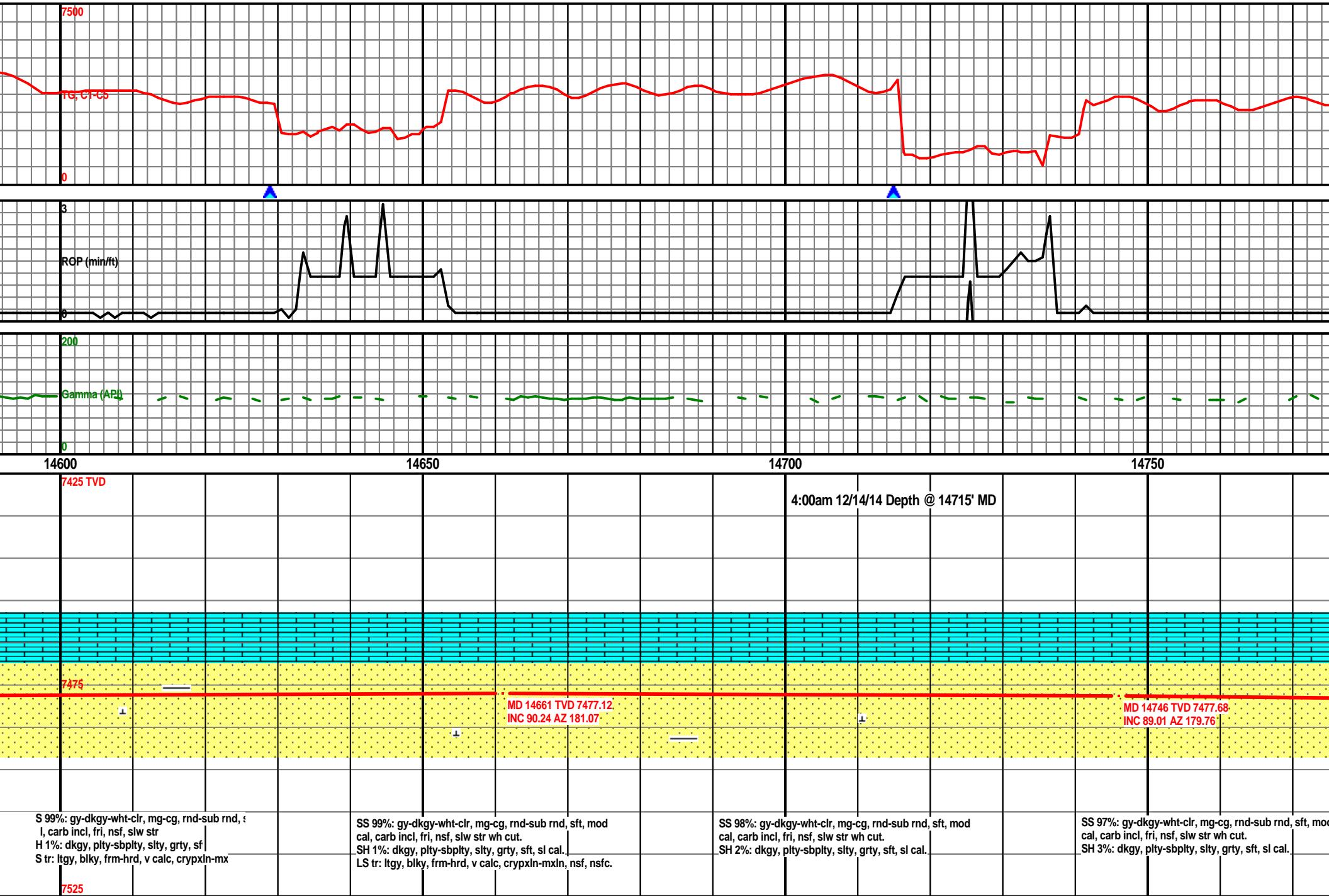
MW 9.50 / VIS 47

MW 9.50 / VIS 47



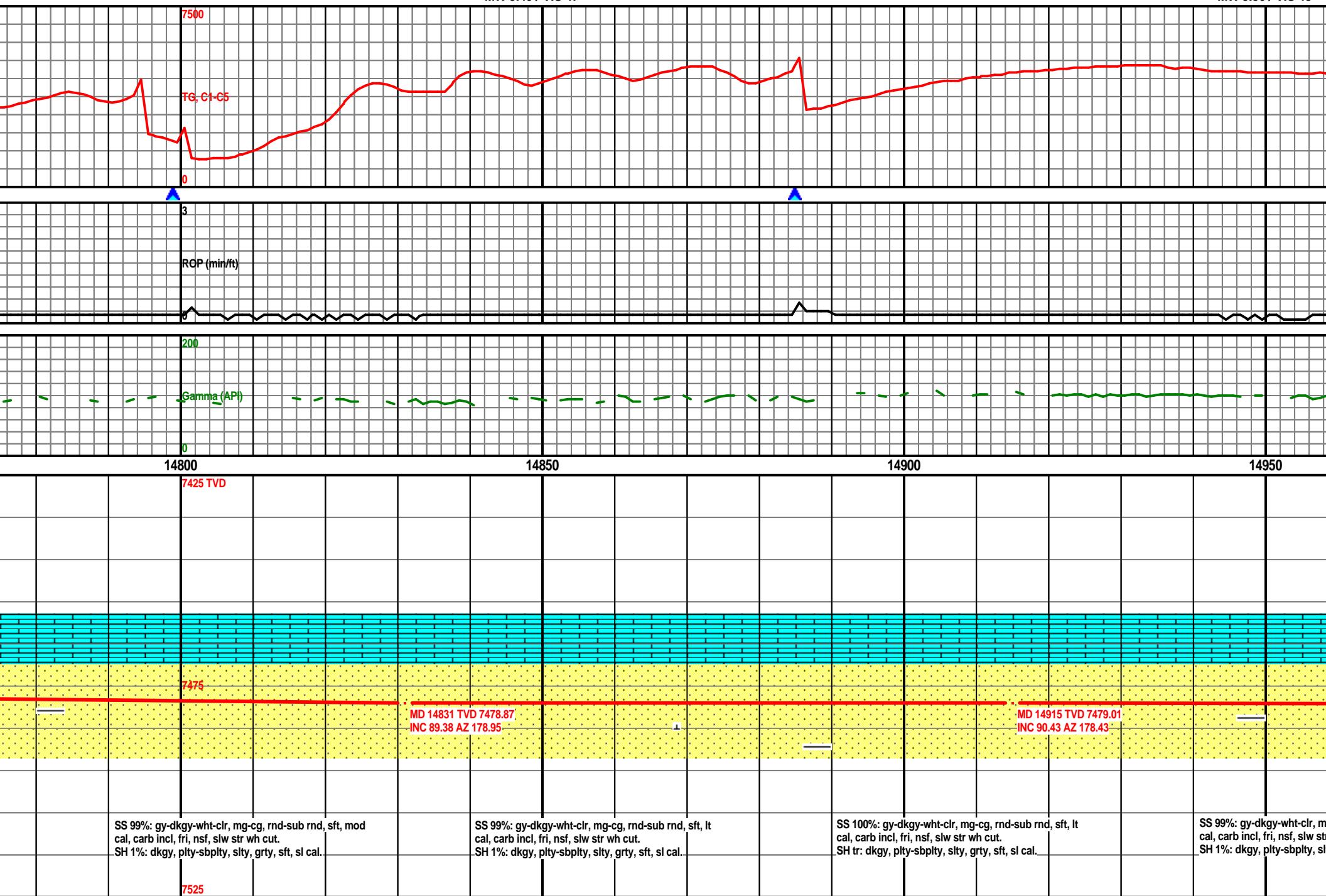
MW 9.50 / VIS 47

MW 9.50 / VIS 47

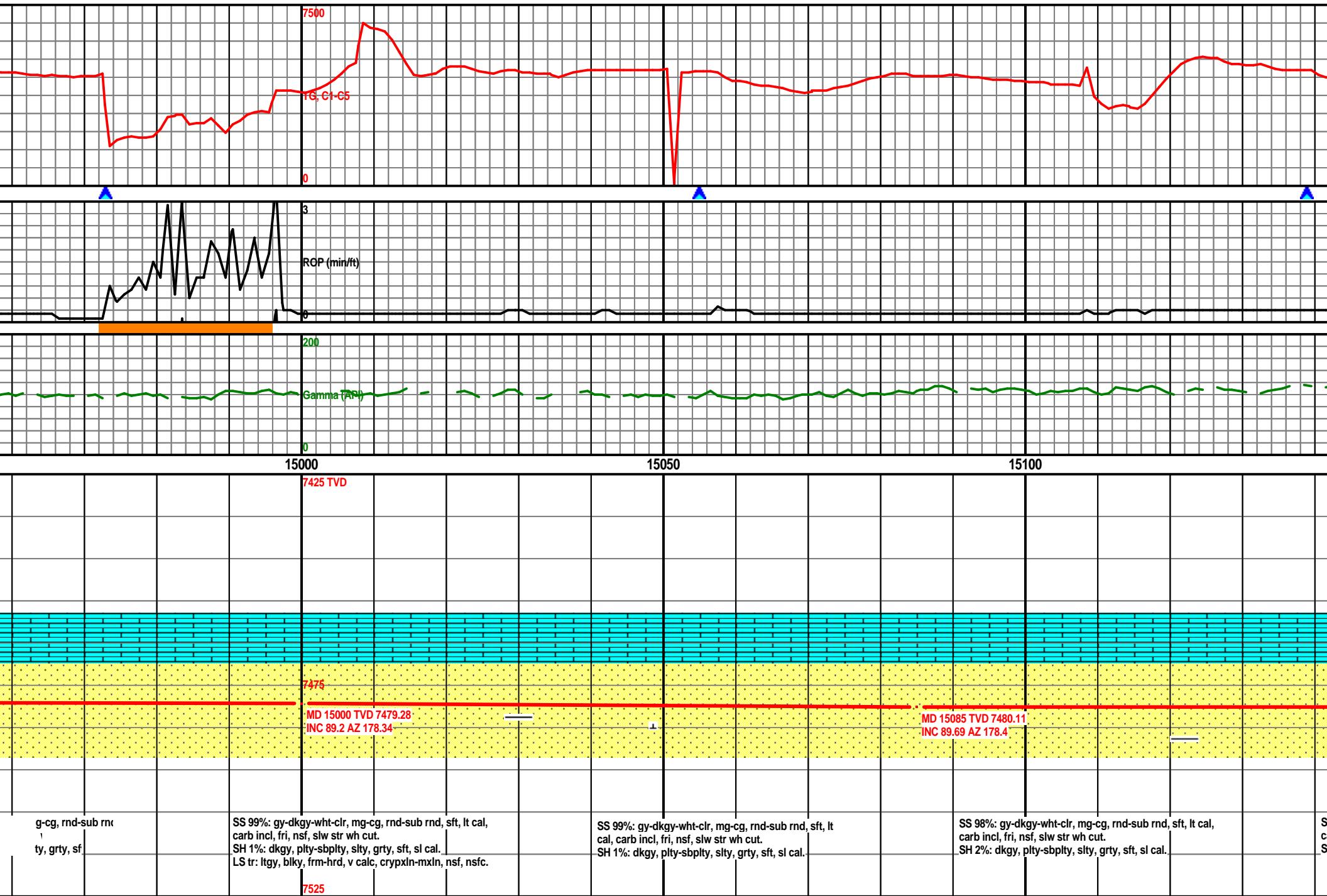


MW 9.40 / VIS 47

MW 9.50 / VIS 48

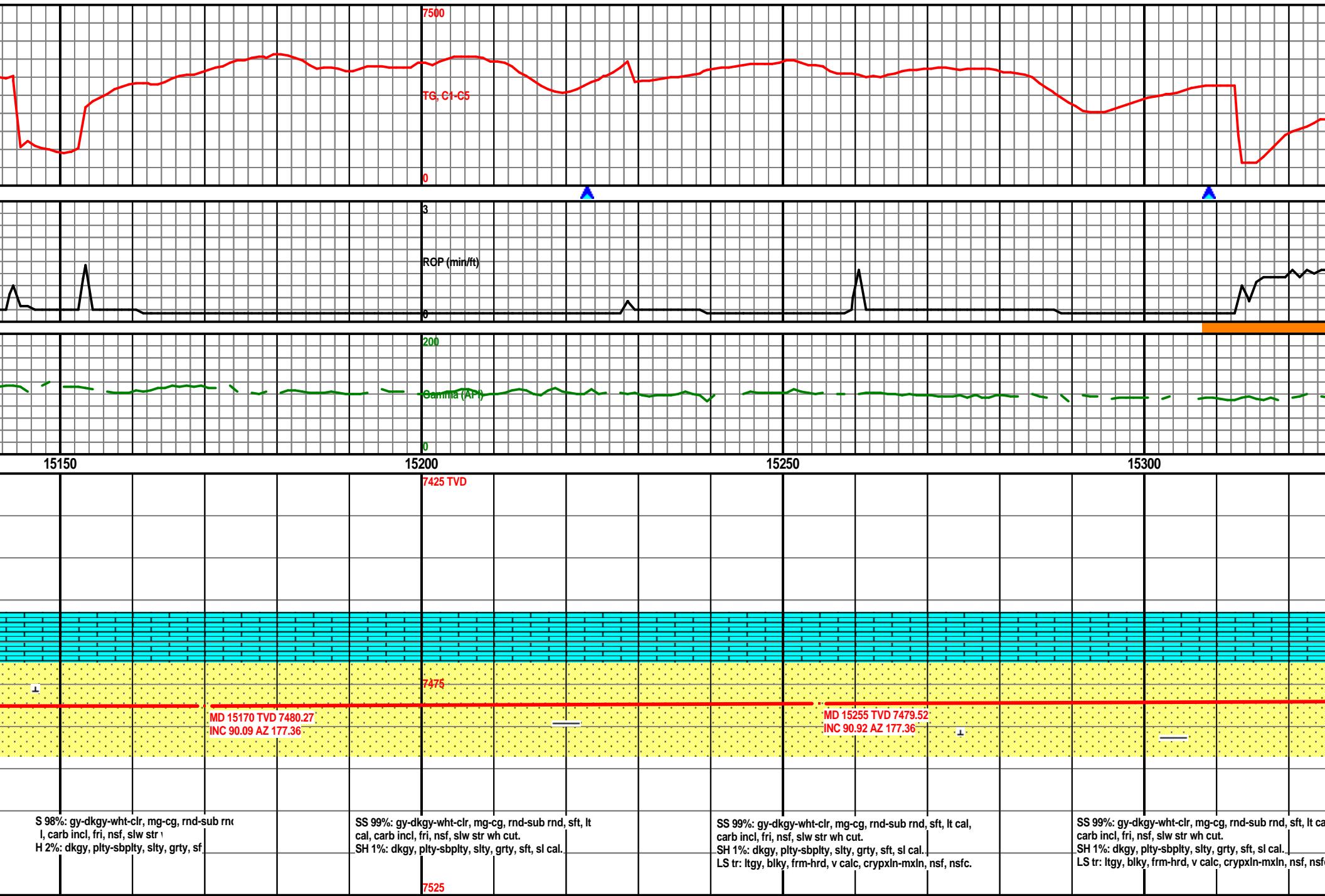


## MW 9.50 / VIS 48



MW 9.50 / VIS 48

MW 9.50 / VIS 48



MW 9.40 / VIS 48

MW 9.40 / VIS 45

7500

0

3  
ROP (min/ft)

200

Gamma (API)

0

15350

15400

15450

15500

7425 TVD

MD 15340 TVD 7478.97  
INC 89.82 AZ 178.19

MD 15427 TVD 7478.5  
INC 90.8 AZ 178.25

SS 99%: gy-dkgry-wht-clr, mg-cg, rnd-sub rnd, sft, lt cal, carb incl, fri, nsf, slw str wh cut.  
SH 1%: dkgy, pty-sbpsty, sity, grty, sft, sl cal..

SS 99%: gy-dkgry-wht-clr, mg-cg, rnd-sub rnd, sft, lt cal, carb incl, fri, nsf, slw str wh cut.  
SH 1%: dkgy, pty-sbpsty, sity, grty, sft, sl cal.

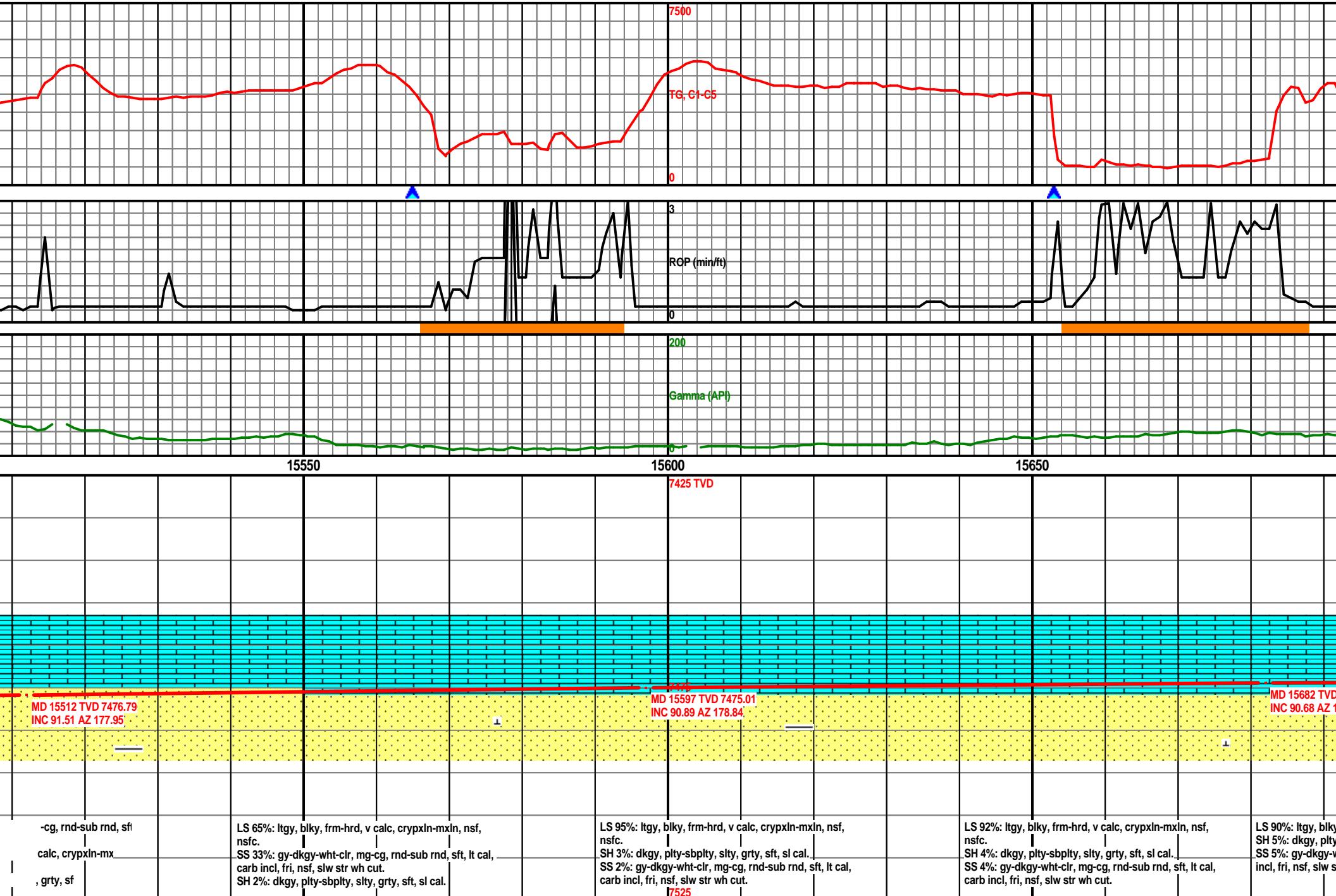
SS 98%: gy-dkgry-wht-clr, mg-cg, rnd-sub rnd, sft, lt cal, carb incl, fri, nsf, slw str wh cut.  
LS 2%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, nsfc.  
SH 1%: dkgy, pty-sbpsty, sity, grty, sft, sl cal.

SS 96%: gy-dkgry-wht-clr, m carb incl, fri, nsf, slw str wh LS 4%: ltgy, blky, frm-hrd, v nsfc.  
SH tr: dkgy, pty-sbpsty, sity,

7525

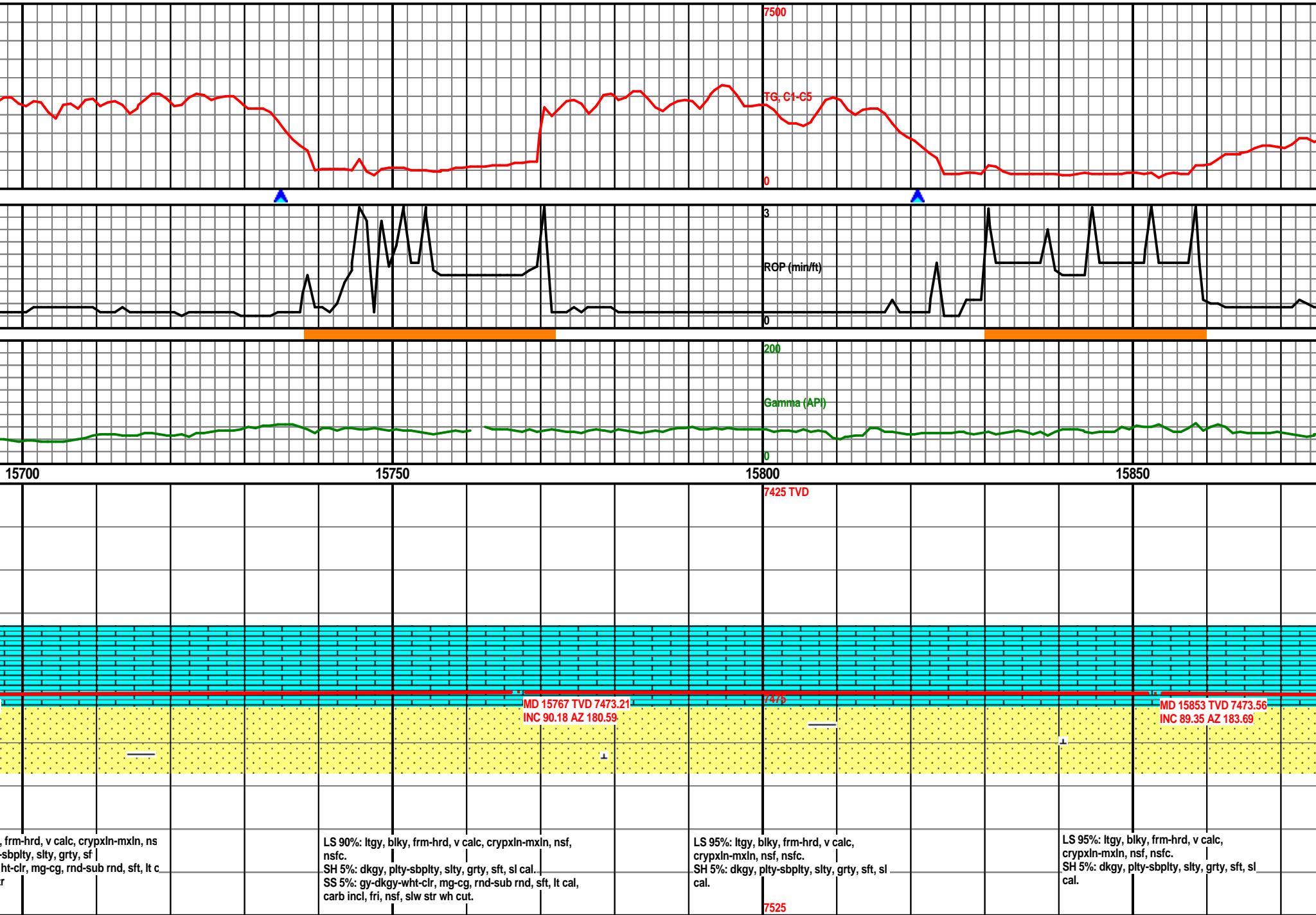
MW 9.40 / VIS 45

MW 9.40 / VIS 44



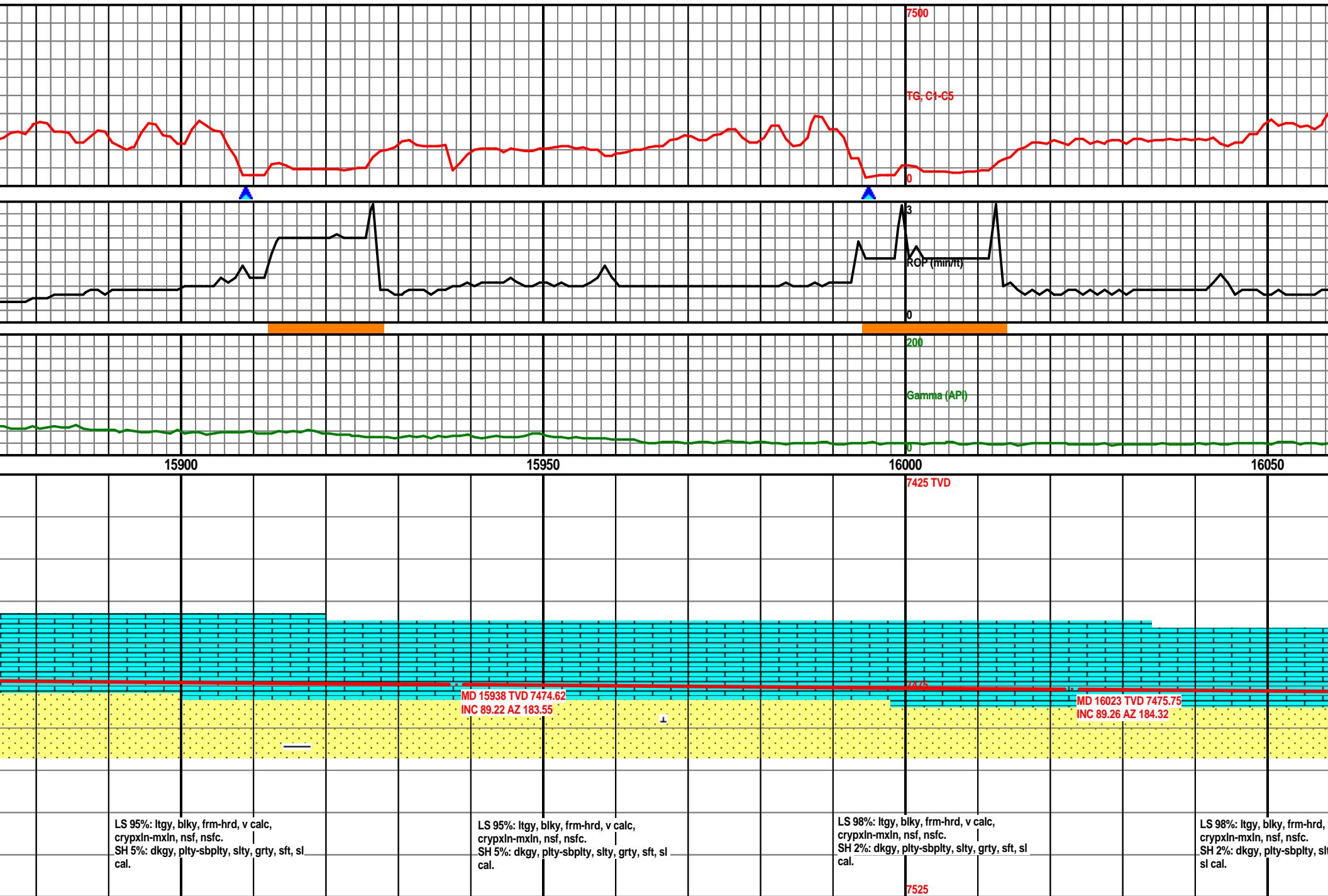
MW 9.40 / VIS 45

MW 9.20 / VIS 42

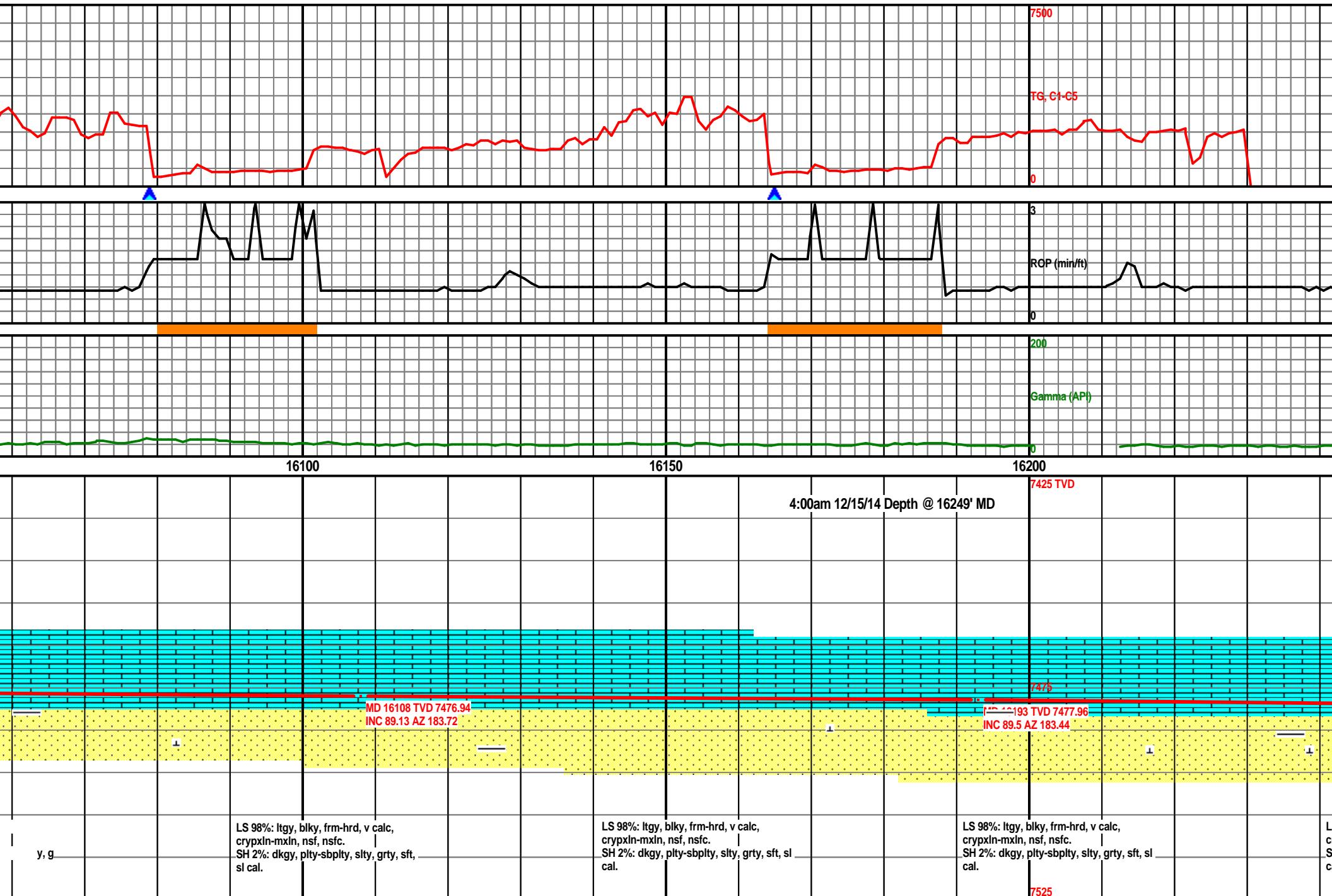


MW 9.40 / VIS 42

MW 9.50 / VIS 42



## MW 9.50 / VIS 41



MW 9.60 / VIS 40

MW 9.60 / VIS 40

7500

TG, C1-C5

0

3

ROP (min/ft)

0

200

Gamma (API)

0

16250

16300

16350

16400

7425 TVD

7475

MD 16278 TVD 7479.24

INC 88.77 AZ 182.73

MD 16363 TVD 7480.49

INC 89.54 AZ 182.54

S 98%: ltgy, blkly, frm-hrd,  
ypxln-mxln, n:  
H 2%: dkgy, pty-sbpty, sity, grty

LS 99%: ltgy, blkly, frm-hrd, v calc,  
cryspxln-mxln, nsf, nsfc.  
SH 1%: dkgy, pty-sbpty, sity, grty, sft, sl  
cal.

LS 99%: ltgy, blkly, frm-hrd, v calc, crypxln-mxln,  
nsf, nsfc.  
SH 1%: dkgy, pty-sbpty, sity, grty, sft, sl cal..

LS 99%: ltgy, blkly, frm-hrd, v calc, crypxln-mxln,  
nsf, nsfc.  
SH 1%: dkgy, pty-sbpty, sity, grty, sft, sl cal..

7525

MW 9.60 / VIS 45

MW 9.40 / VIS 40

7500

TG, C1-C5

0

3  
ROP (min/ft)

200

Gamma (API)

16450

16500

16550

16600

7425 TVD

7475

MD 16448 TVD 7480.86

INC 89.97 AZ 182.49

MD 16533 TVD 7481.26

INC 89.48 AZ 181.64

LS 97%: ltgy, blkly, frm-hrd, v calc, crypxln-mxln, nsf, nsfc.  
SS 2%: gy-dkgy-wht-clr, mg-cg, rnd-sub rnd, sft, lt cal, carb incl, fri, nsf, slw str wh cut.  
SH 1%: dkgy, pty-sbpsty, sity, grty, sft, sl cal.

LS 96%: ltgy, blkly, frm-hrd, v calc, crypxln-mxln, nsf, nsfc.  
SS 3%: gy-dkgy-wht-clr, mg-cg, rnd-sub rnd, sft, lt cal, carb incl, fri, nsf, slw str wh cut.  
SH 1%: dkgy, pty-sbpsty, sity, grty, sft, sl cal.

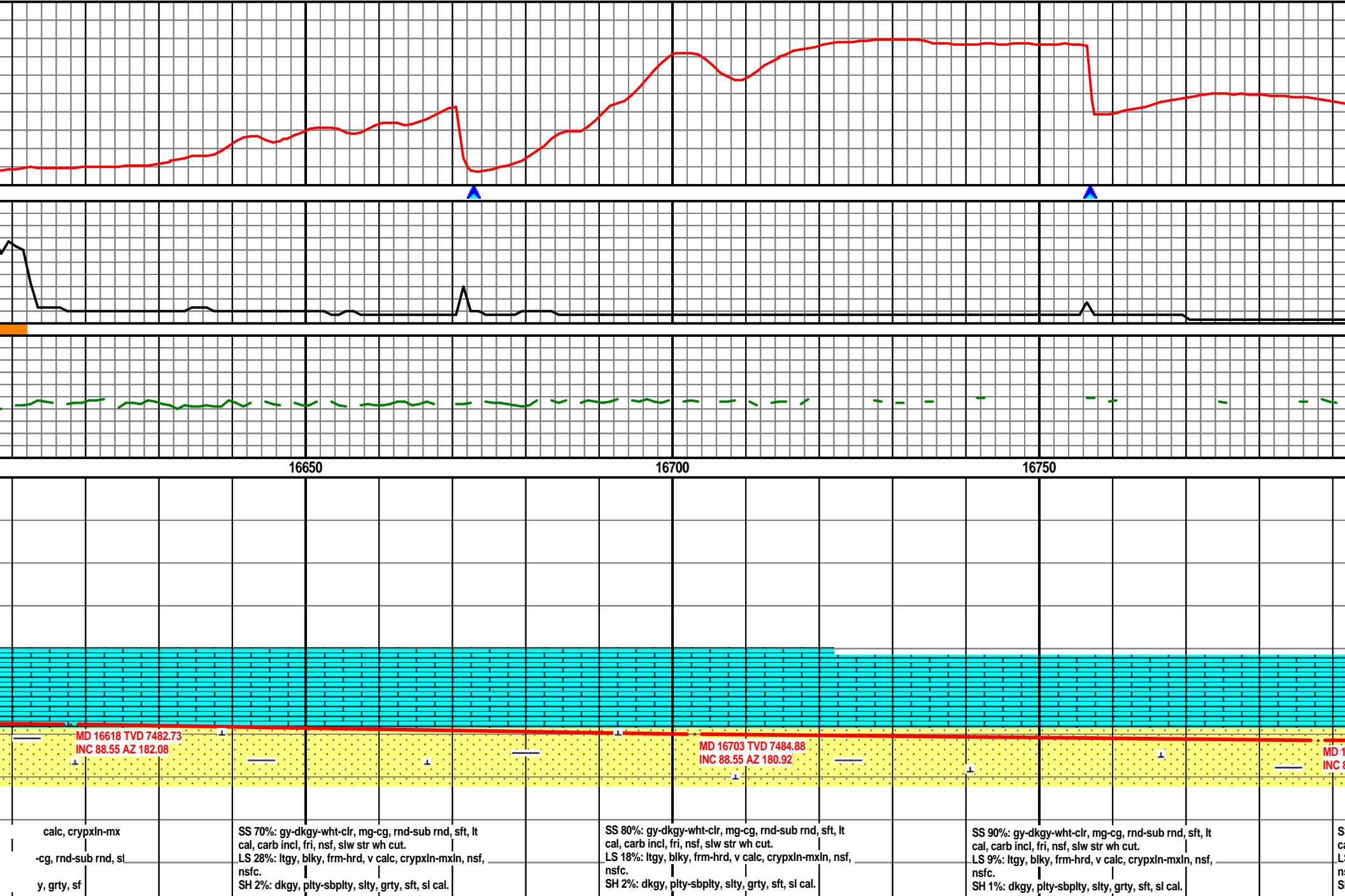
LS 97%: ltgy, blkly, frm-hrd, v calc, crypxln-mxln, nsf, nsfc.  
SS 2%: gy-dkgy-wht-clr, mg-cg, rnd-sub rnd, sft, lt cal, carb incl, fri, nsf, slw str wh cut.  
SH 1%: dkgy, pty-sbpsty, sity, grty, sft, sl cal.

LS 97%: ltgy, blkly, frm-hrd, nsfc.  
SS 2%: gy-dkgy-wht-clr, mg carb incl, fri, nsf, slw str wh cut.  
SH 1%: dkgy, pty-sbpsty, sity, grty, sft, sl cal.

7525

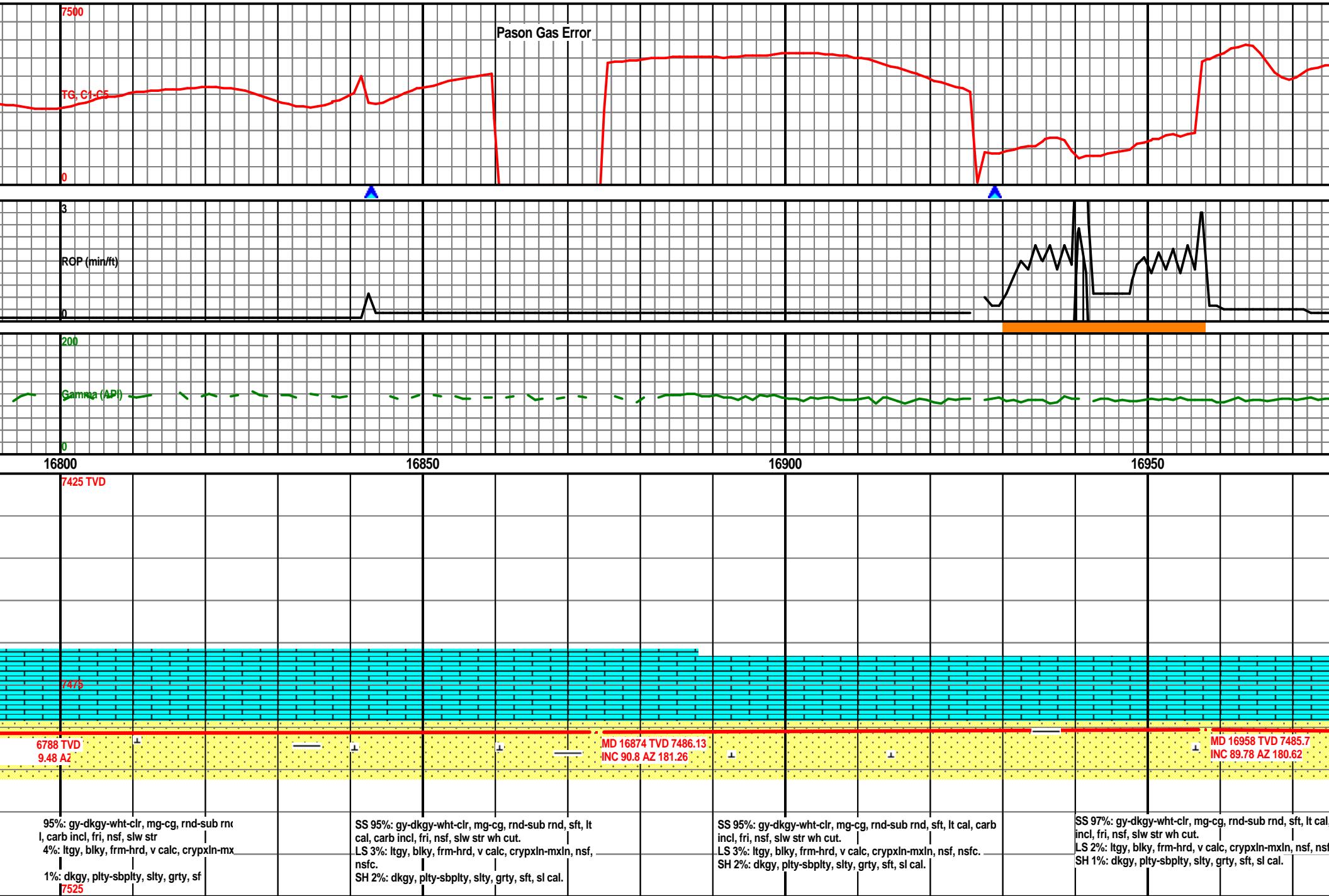
MW 9.40 / VIS 40

MW 9.40 / VIS 41



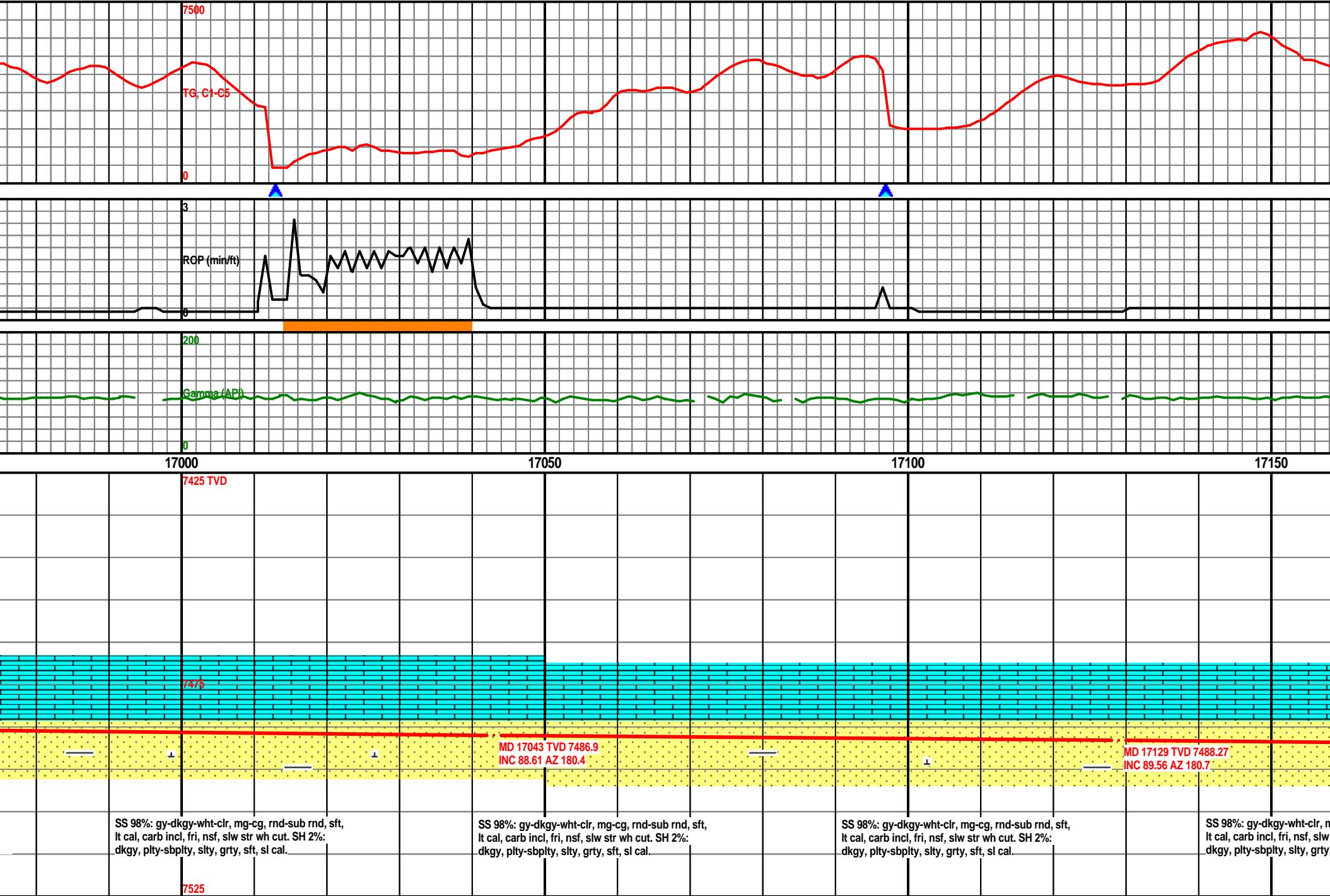
MW 9.40 / VIS 41

MW 9.70 / VIS 45

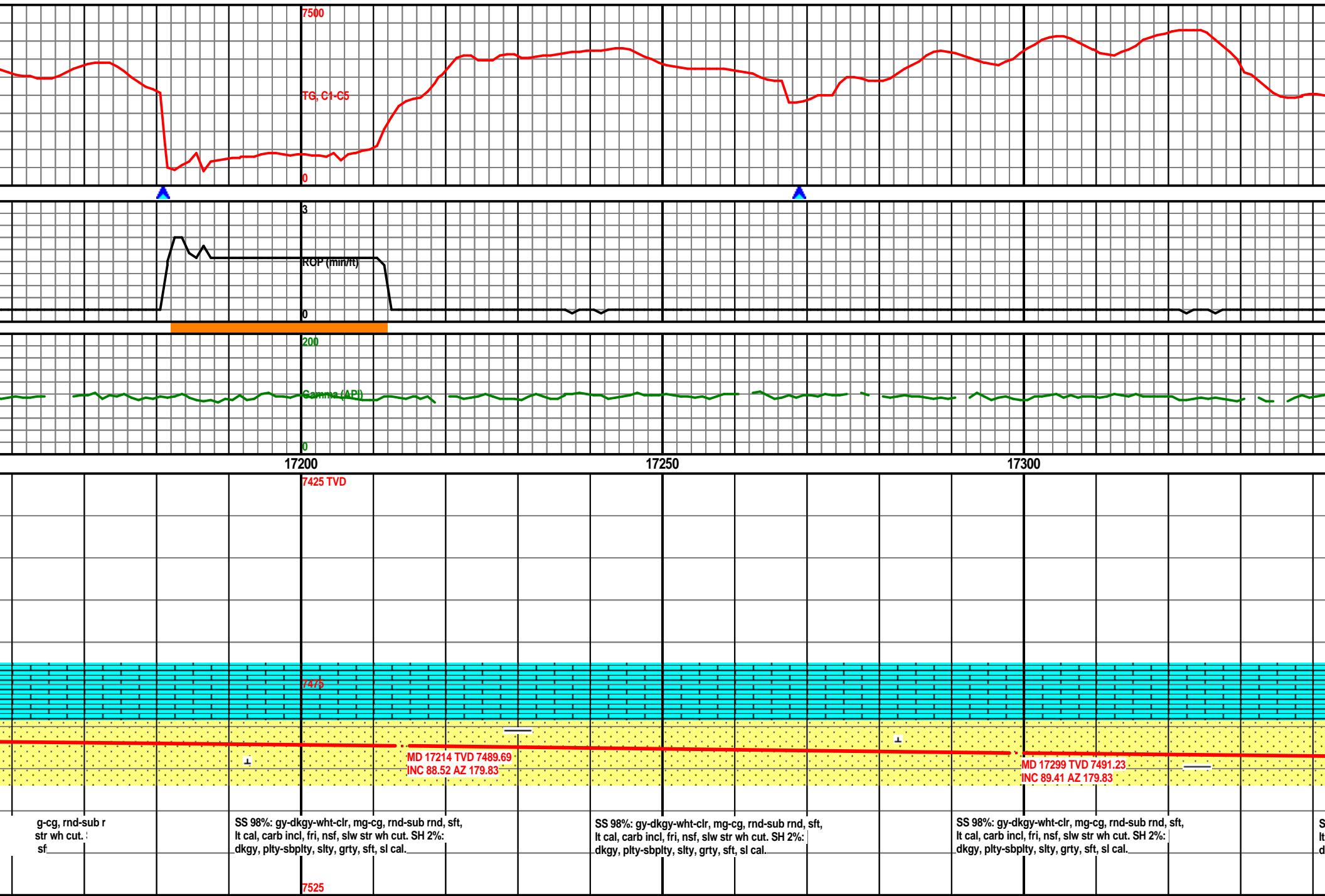


MW 9.70 / VIS 43

MW 9.70 / VIS 43

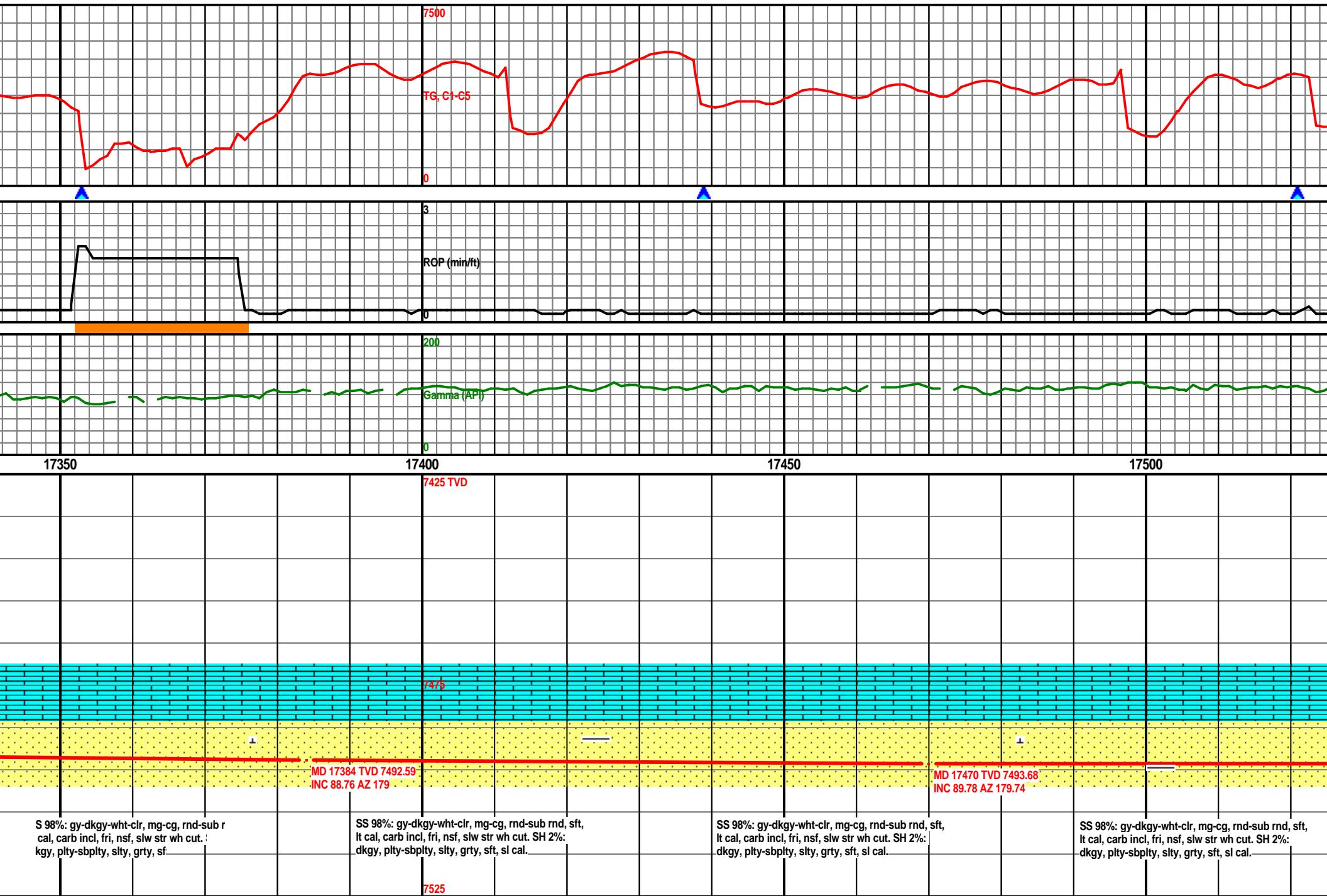


## MW 9.60 / VIS 43



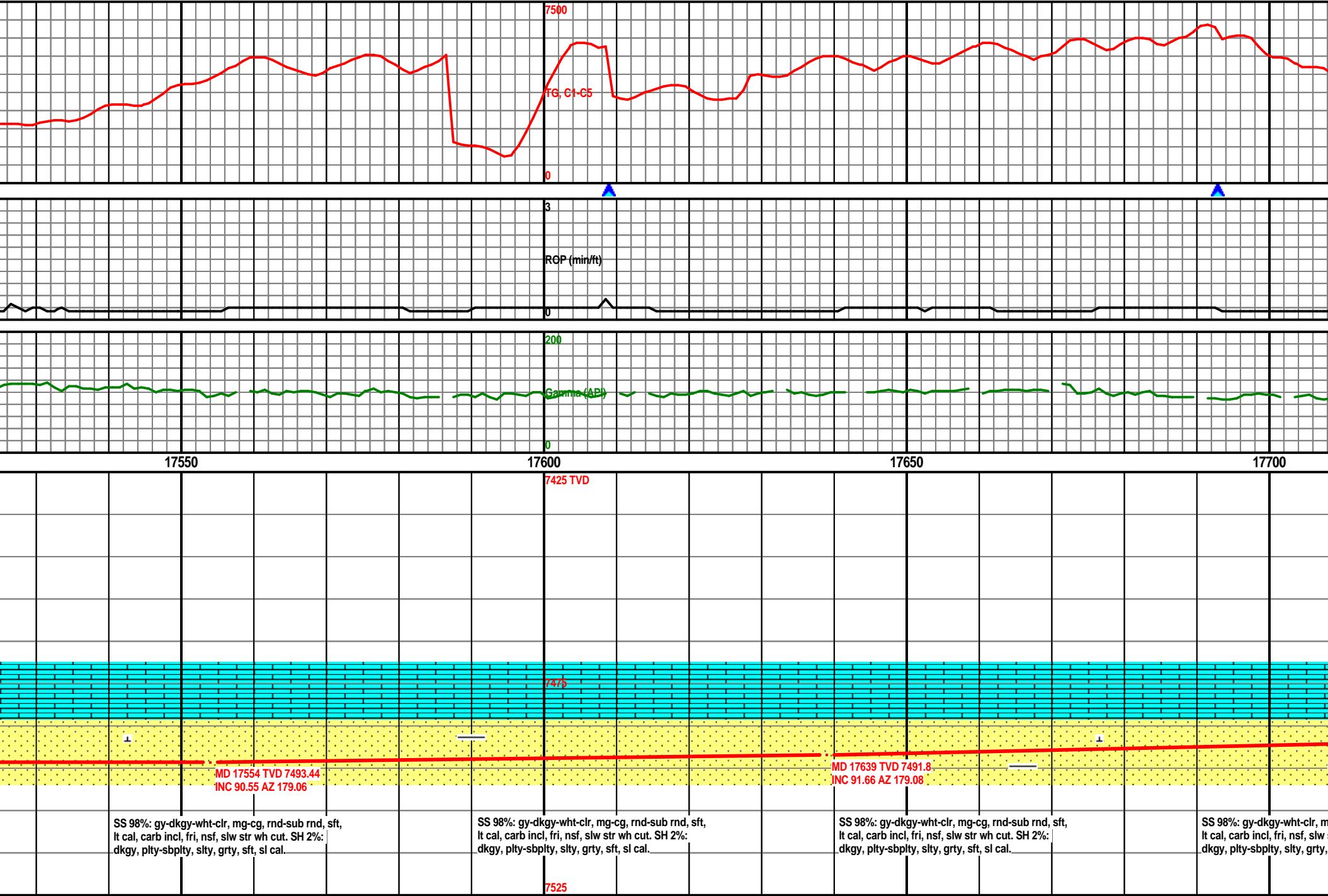
MW 9.60 / VIS 43

MW 9.60 / VIS 43



MW 9.60 / VIS 43

MW 9.60 / VIS 43



MW 9.60 / VIS 43

7500

TD of 17817' MD achieved @  
12:09am 12/16/2014.

0

3

ROP (min/ft)

200

Two man logging unit with sample  
program released by company man  
12/16/2014.

0

17750

17800

17

7425 TVD

7475

