



**Scale 1:200 Imperial
Measured Depth Log**

Well Name: Reynolds Cattle 5C-23HZ
Location: Weld County, CO.
License Number: 051233913800
Spud Date: 6/1/14
Surface Coordinates: 2011'FNL & 339'FEL, SEC.23, T3N-R68W
Region: DJ Basin
Drilling Completed: 6/6/14
Bottom Hole Coordinates: 1732'FNL & 50'FWL, SEC.23, T3N-R68W
Ground Elevation (ft): 4956' **K.B. Elevation (ft):** 4972'
Logged Interval (ft): 7370' **To:** 13401' **Total Depth (ft):** 13401'
Formation: Codell
Type of Drilling Fluid: Water Base Mud

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

OPERATOR

Company: Anadarko Petroleum Corporation
Address: Granite Tower
1099 18th St., Suite 1800
Denver, CO 80202

GEOLOGIST

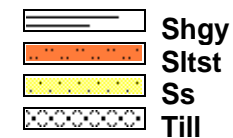
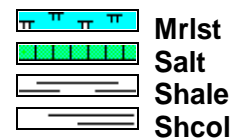
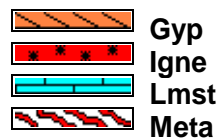
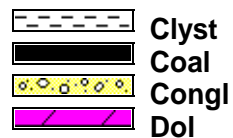
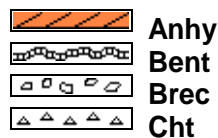
Name: Scott Crozier / Ben Thompson
Company: Great Divide Consulting, Inc.
Address: P.O. Box 630263
Highlands Ranch, CO 80163

Cores

DSTs

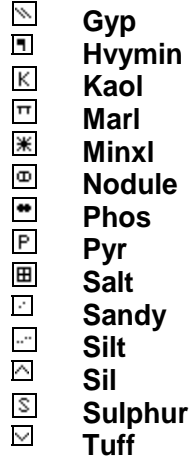
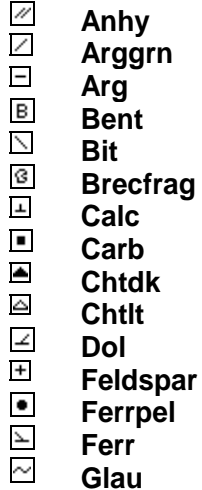
Comments

ROCK TYPES

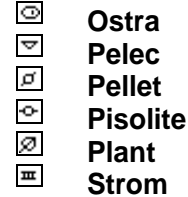
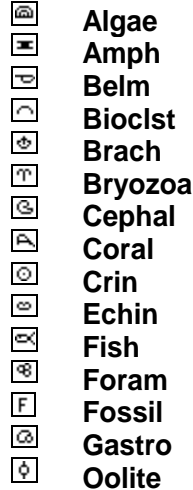


ACCESSORIES

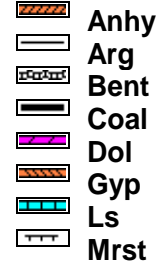
MINERAL



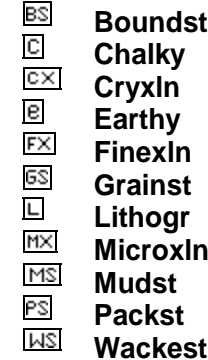
FOSSIL










STRINGER



TEXTURE



POROSITY

 Earthy
 Fenest
 Fracture
 Inter
 Moldic
 Organic
 Pinpoint







Vuggy

SORTING

 Well
 Moderate
 Poor

OTHER SYMBOLS

ROUNDING



 Rounded
 Subrnd
 Subang
 Angular

OIL SHOW

 Even



Spotted

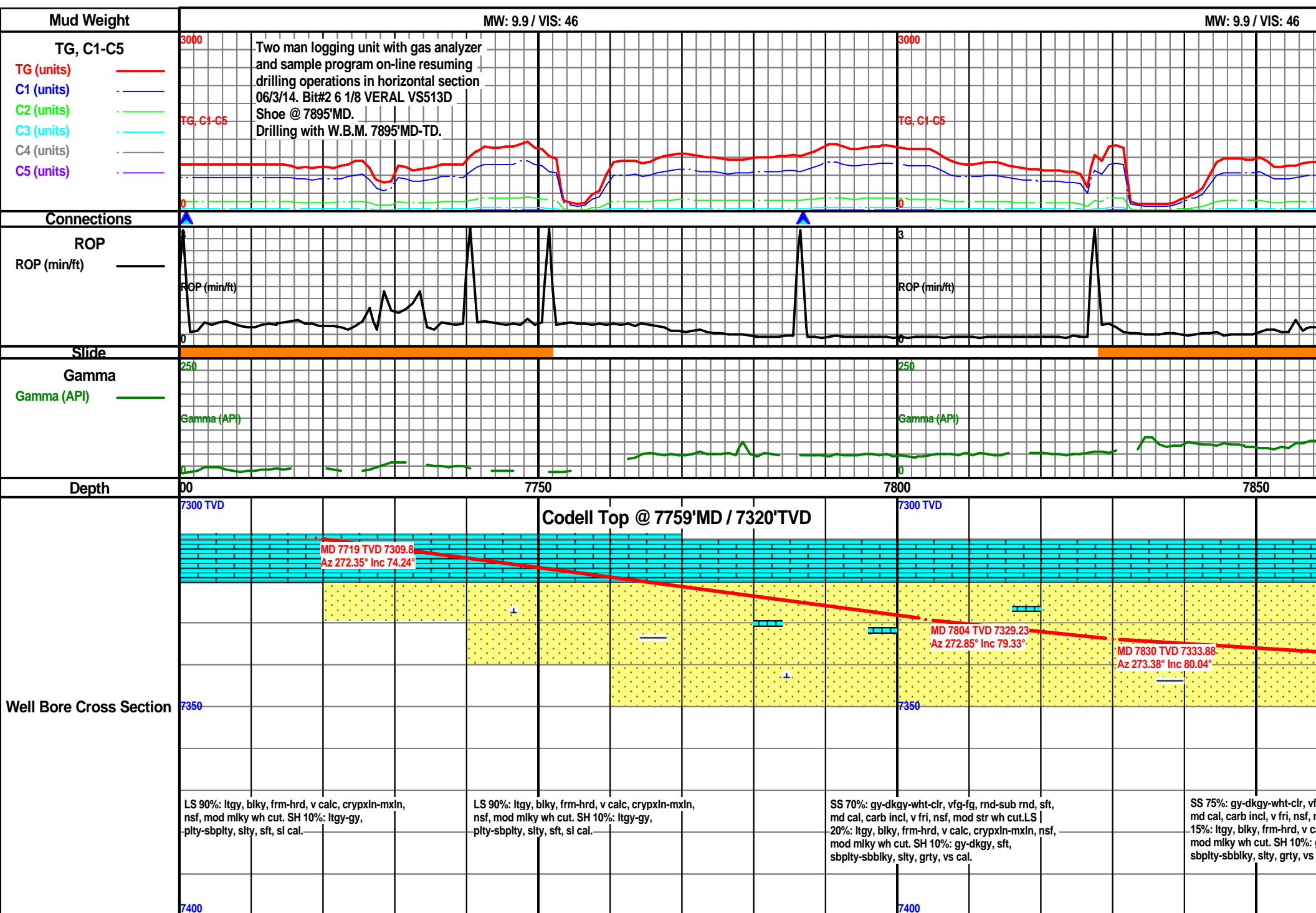
 Ques
 Dead

INTERVAL

 Core
 Dst

EVENT

 Rft
 Connection



MW: 9.25 / VIS: 42

Curve TD of 7895' MD achieved @ 9:36am 06/02/14. T.O.O.H. for intermediate casing.

T.O.O.H for MWD tool at 8037' MD @ 9:35PM 6/3/14. B.O.B. and drilling ahead @ 9:07AM 6/4/14.

3000

TG, C1-C5

3

RGP (min/lb)

250

Gauge (API)

0

7900

7950

8000

7300 TVD

4:00AM 6/4/14 Depth @ 8037'

Prognosed Target Line

MD 7900 TVD 7337

Inc 90°

MD 8000 TVD 7337

Inc 90°

MD 7972 TVD 7348.91
Az 277.08° Inc 87.81°

g-fg, rnd-sub r
od str wh
lc, crypxin-mx
y-dk

SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, v fri, nsf, mod str wh cut. SH
10%: gy-dkgy, sft, sbply-sbblky, slty, grty, vs cal.

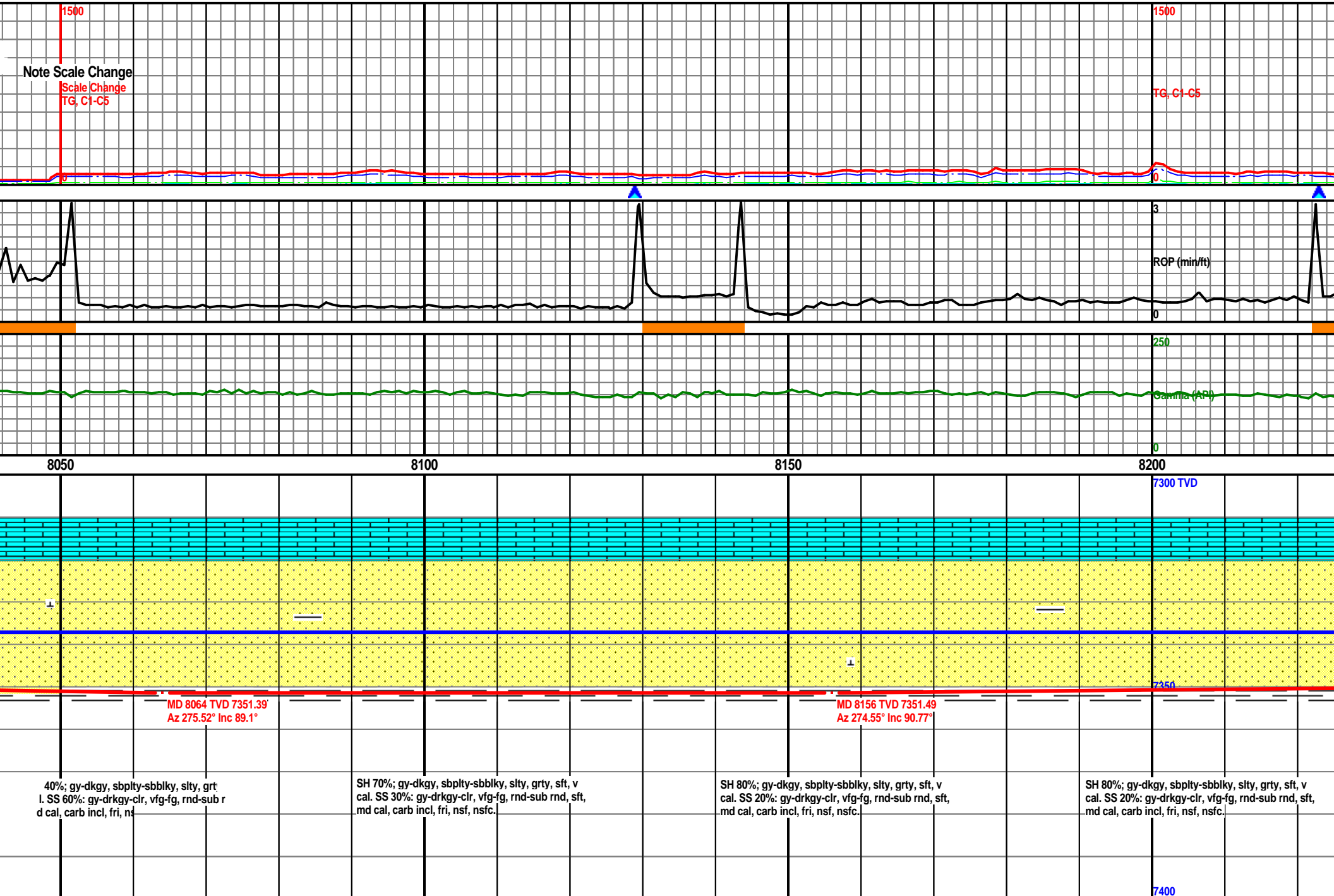
SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, v fri, nsf, mod str wh cut. SH
10%: gy-dkgy, sft, sbply-sbblky, slty, grty, vs cal.

SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, v fri, nsf, mod str wh cut. SH
10%: gy-dkgy, sft, sbply-sbblky, slty, grty, vs cal.

7400

MW: 9.2 / VIS: 41

MW: 9.1 / VIS: 43



MW: 9.2 / VIS: 45

MW: 9.1 / VIS: 45

1500

TG, C1-C5

0

3

RGP (min/ft)

250

Gamma (API)

0

8250

8300

8350

8400

7300 TVD

MD 8400 TVD

Inc 90°

7350

MD 8248 TVD 7349.96
Az 272.55° Inc 91.13°

MD 8333 TVD 7348.21
Az 271.57° Inc 91.23°

SH 80%; gy-dkgy, sbplty-sbblky, slty, grty, sft, v
cal. SS 20%; gy-drkgy-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, fri, nsf, nsfc.

SS 90%; gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, v fri, nsf, mod str wh cut. SH
10%; gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal.

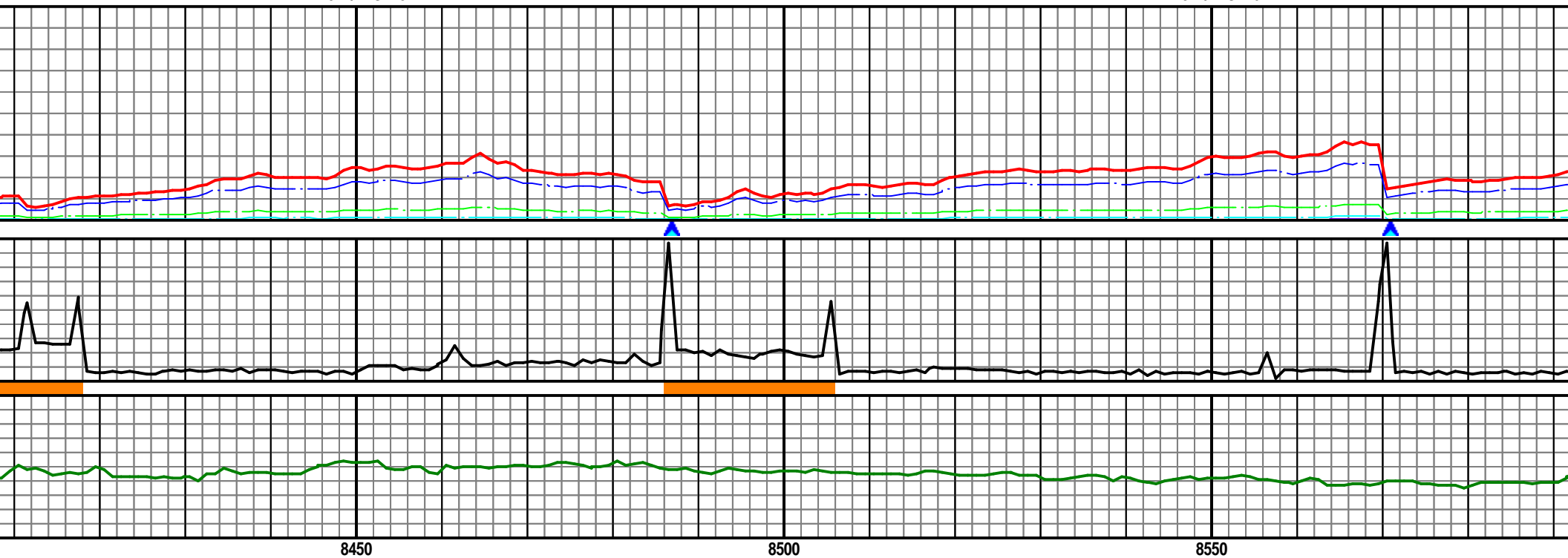
SS 90%; gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, v fri, nsf, mod str wh cut. SH
10%; gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal.

SS 90%; gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, v fri, nsf, mod str wh cut. SH
10%; gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal.

7400

MW: 9.1 / VIS: 45

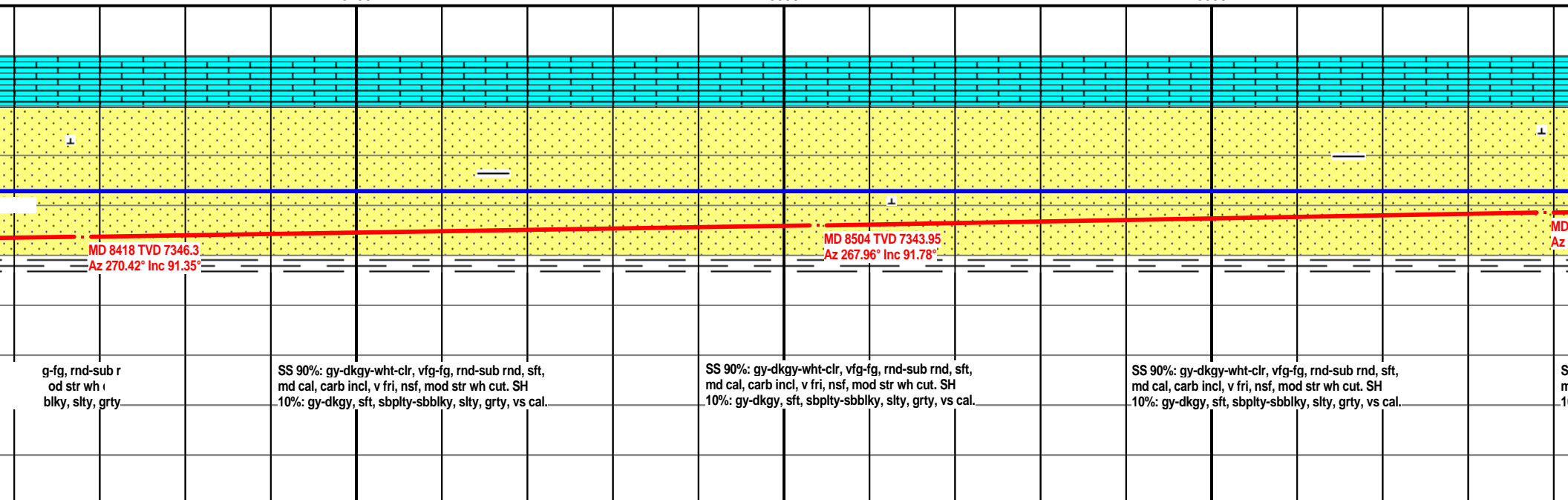
MW: 9.1 / VIS: 46



8450

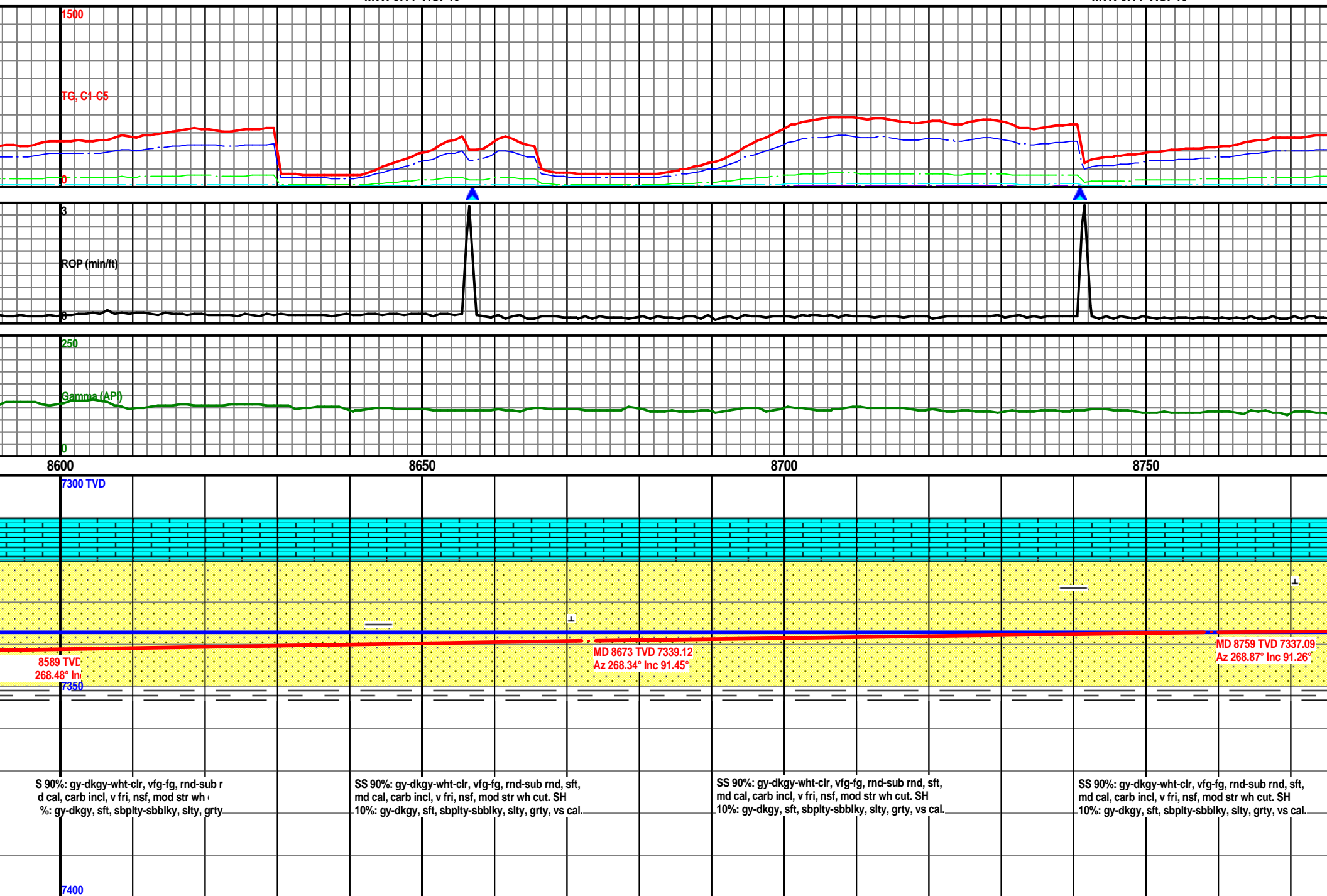
8500

8550



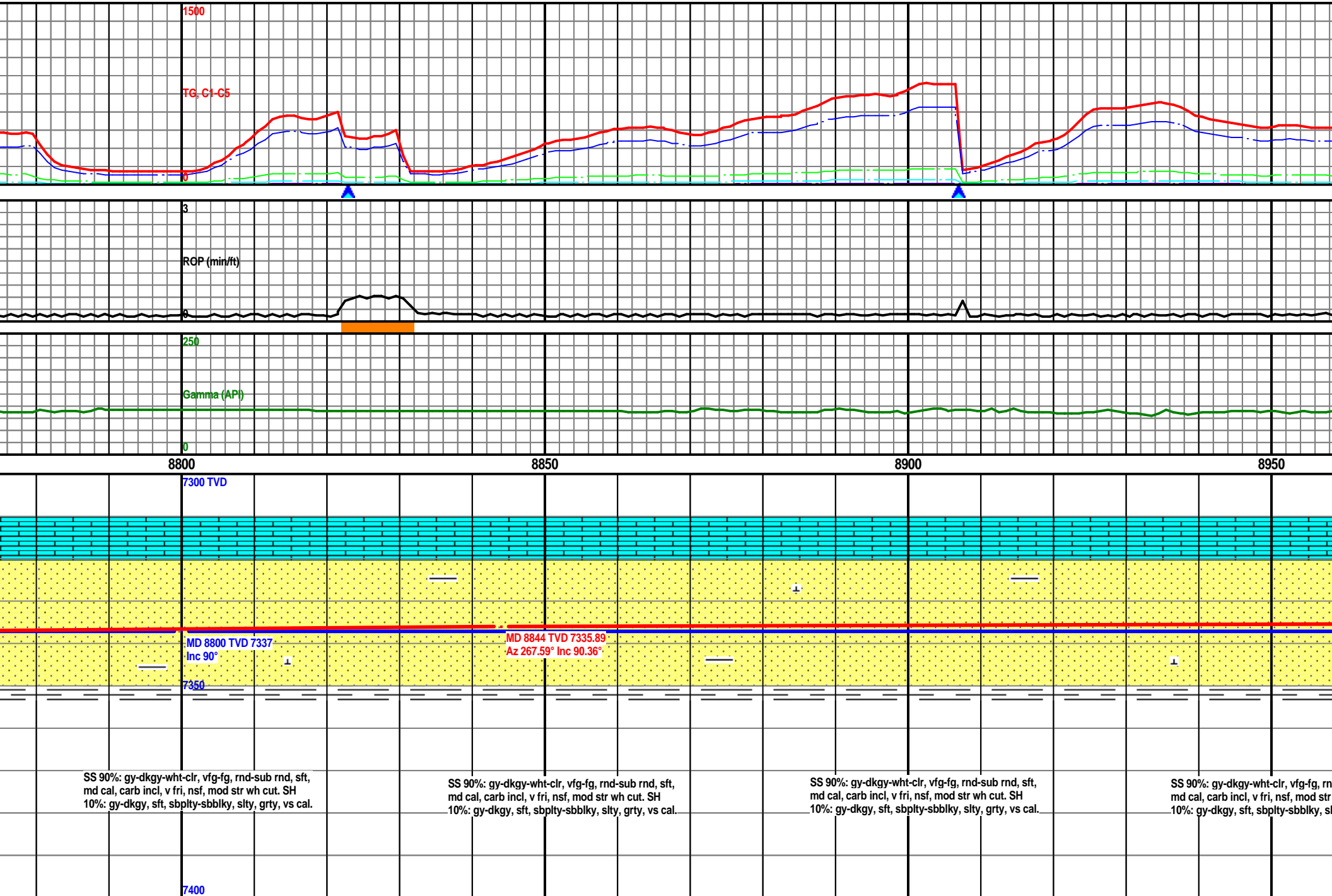
MW: 9.1 / VIS: 46

MW: 9.1 / VIS: 46

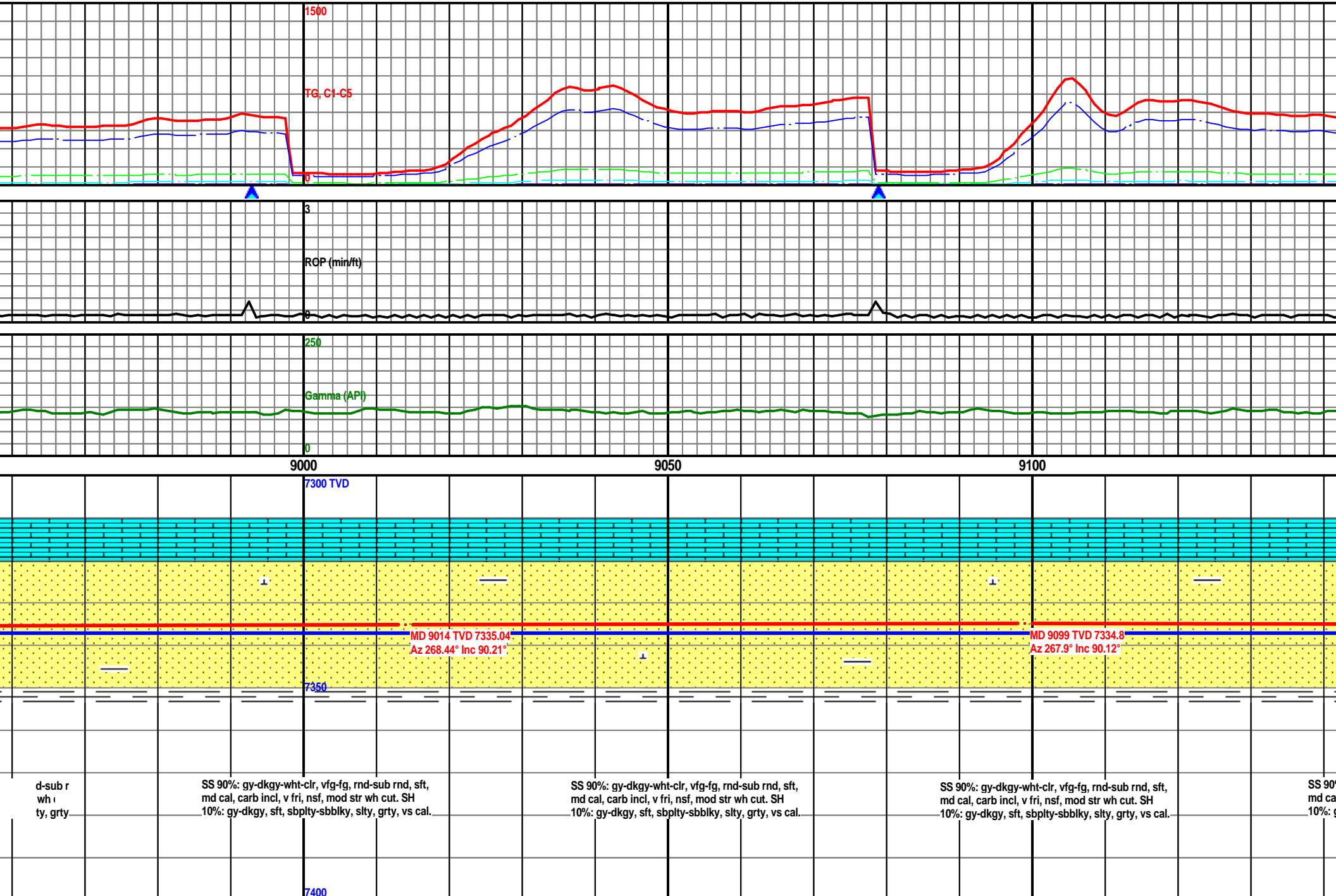


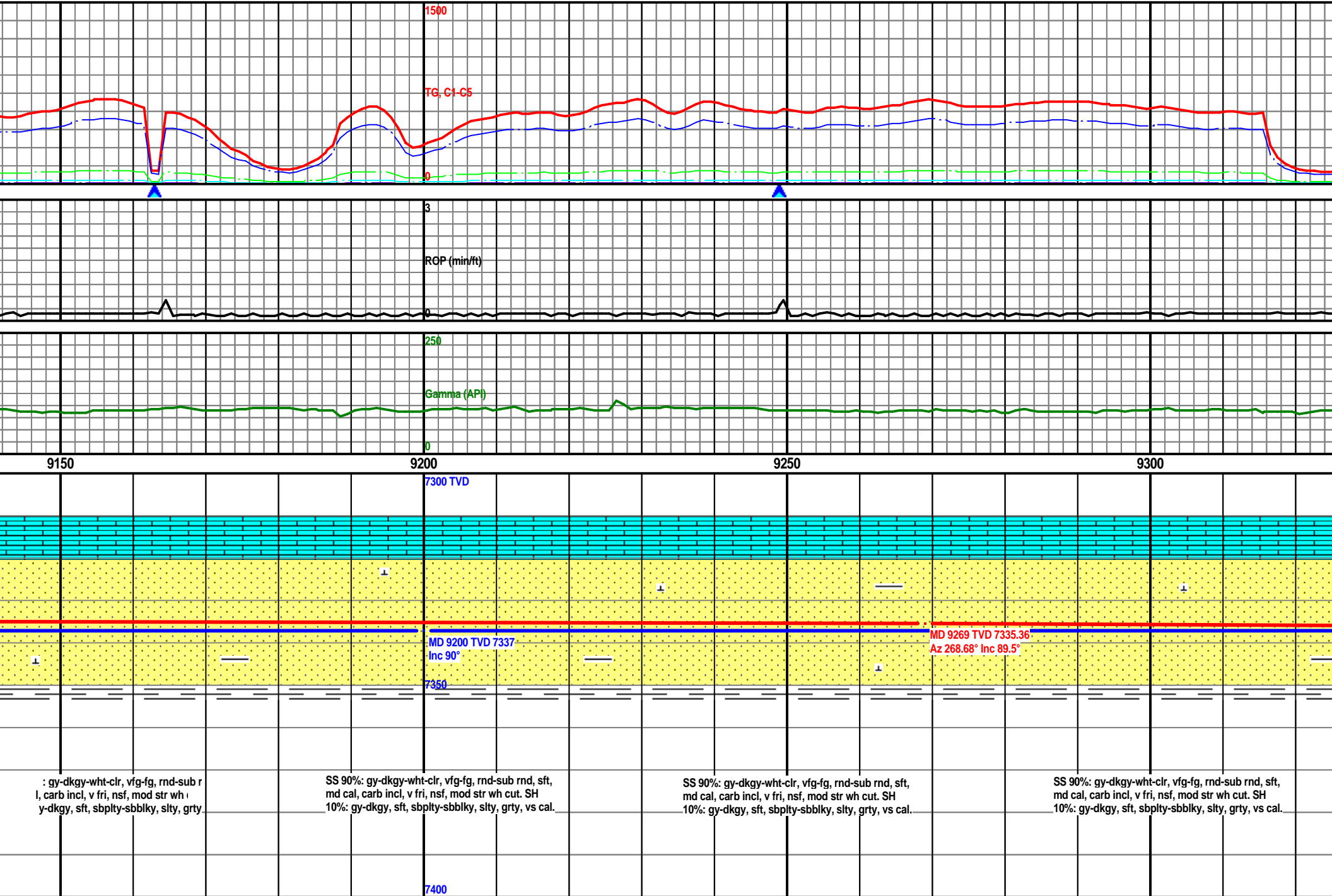
MW: 9.2 / VIS: 46

MW: 9.2 / VIS: 46



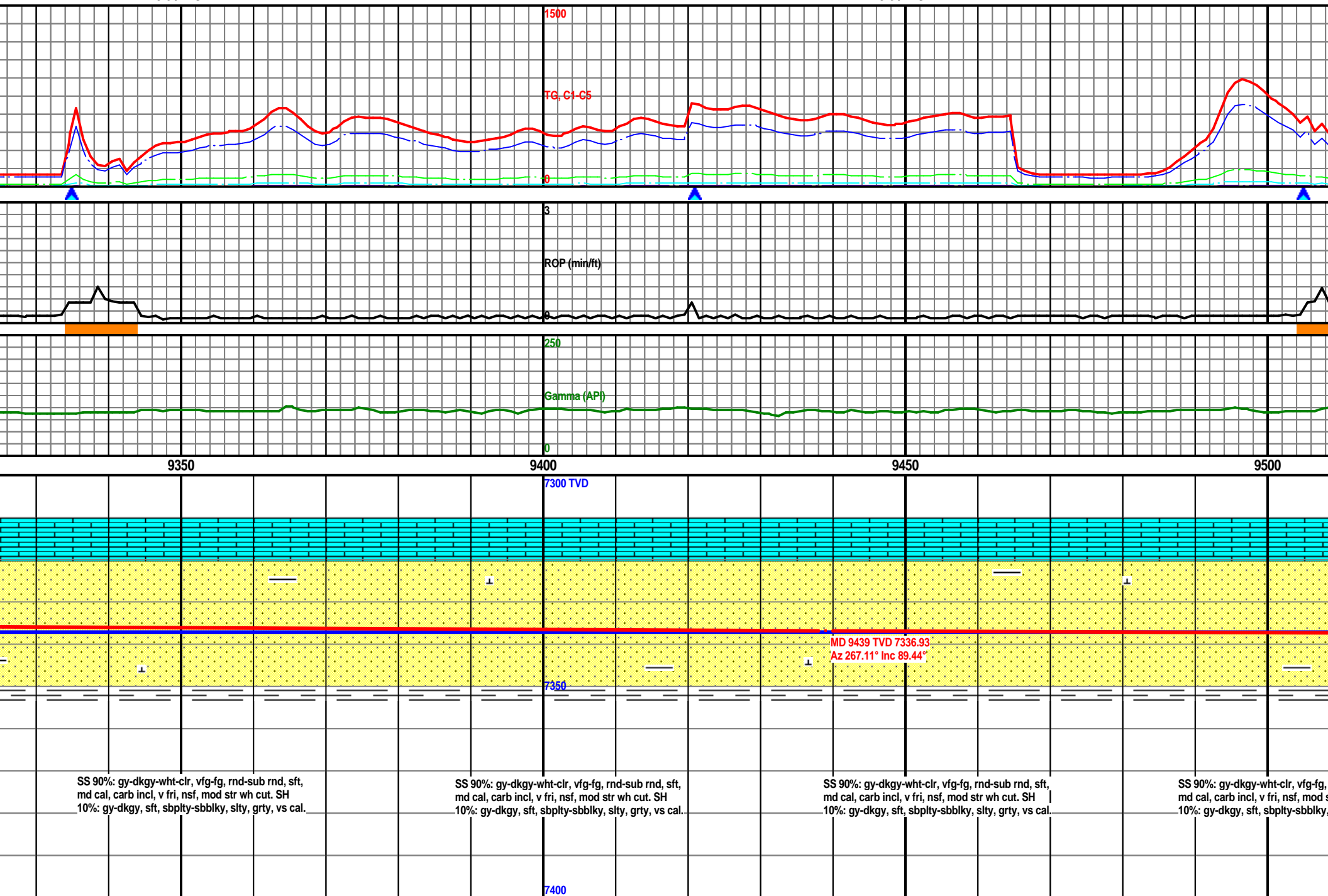
MW: 9.3 / VIS: 47





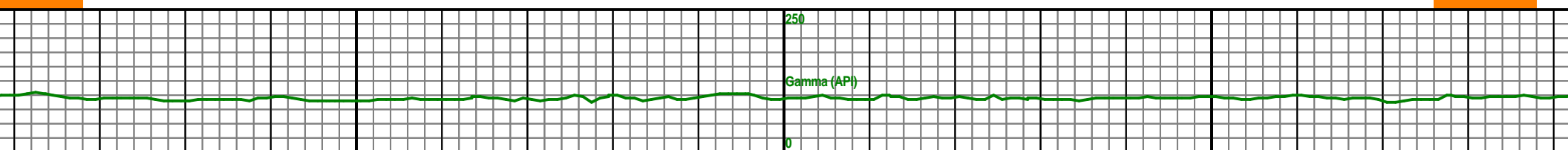
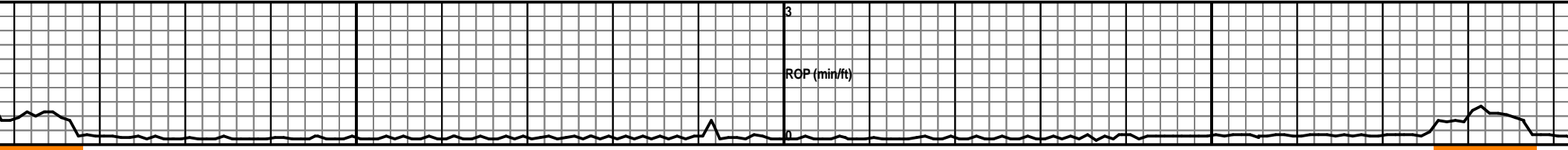
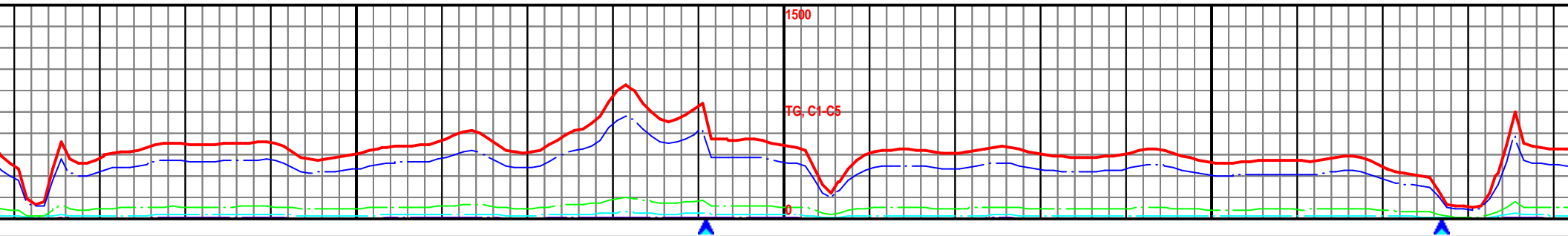
MW: 9.3 / VIS: 47

MW: 9.3 / VIS: 47



MW: 9.3 / VIS: 47

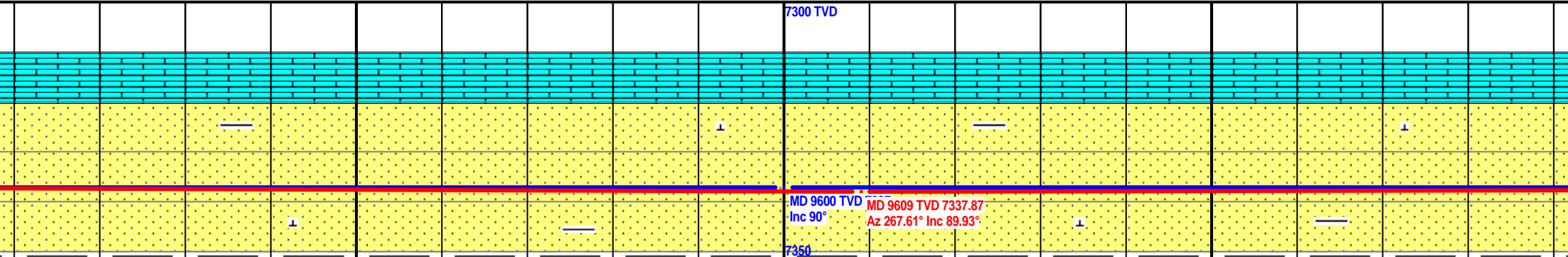
MW: 9.3 / VIS: 47



9550

9600

9650



rnd-sub r
tr wh i
silty, grty

SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, v fri, nsf, mod str wh cut. SH
10%: gy-dkgy, sft, sbply-sbbly, slty, grty, vs cal.

SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, v fri, nsf, mod str wh cut. SH
10%: gy-dkgy, sft, sbply-sbbly, slty, grty, vs cal.

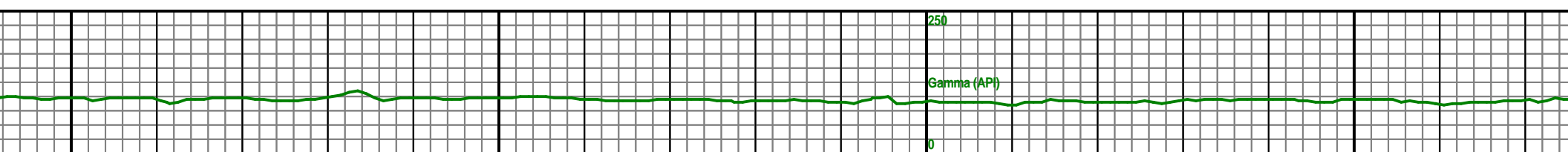
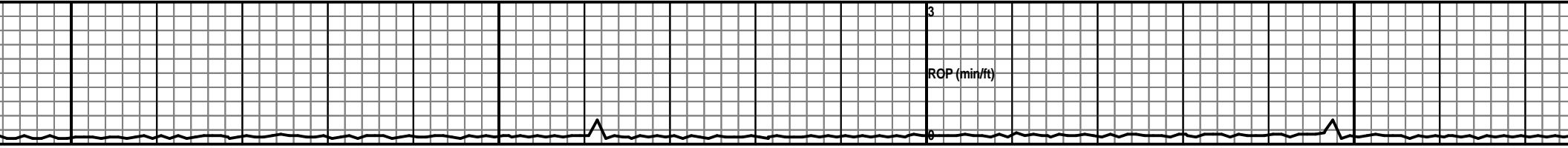
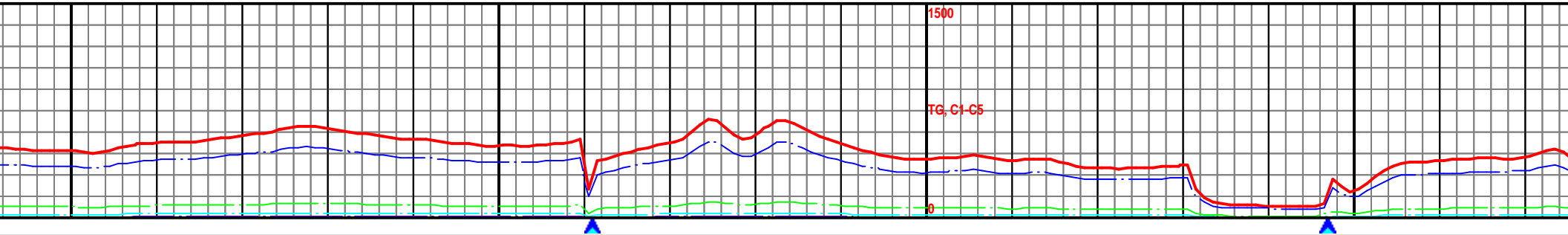
SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, v fri, nsf, mod str wh cut. SH
10%: gy-dkgy, sft, sbply-sbbly, slty, grty, vs cal.

SS 90%:
md cal,
10%: gy

7400

MW: 9.3 / VIS: 47

MW: 9.3+ / VIS: 45

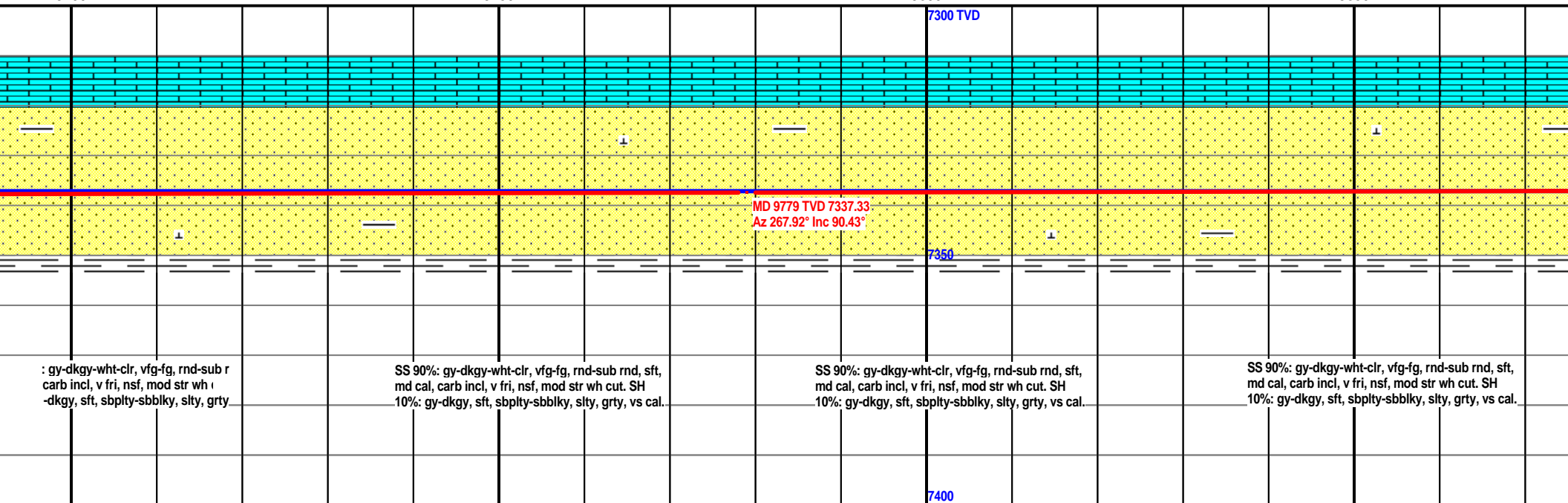


9700

9750

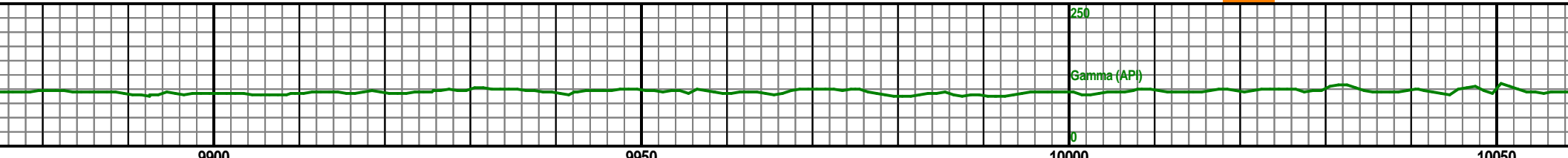
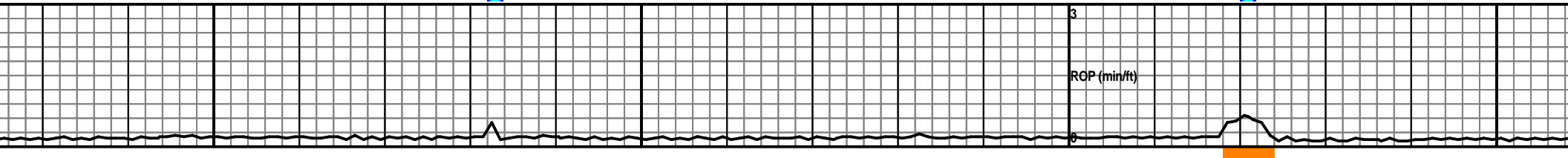
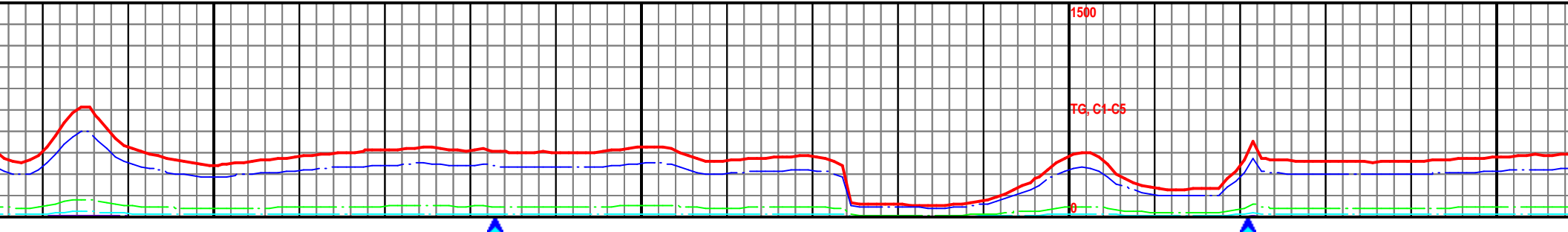
9800

9850



MW: 9.3+ / VIS: 45

MW: 9.3+ / VIS: 46

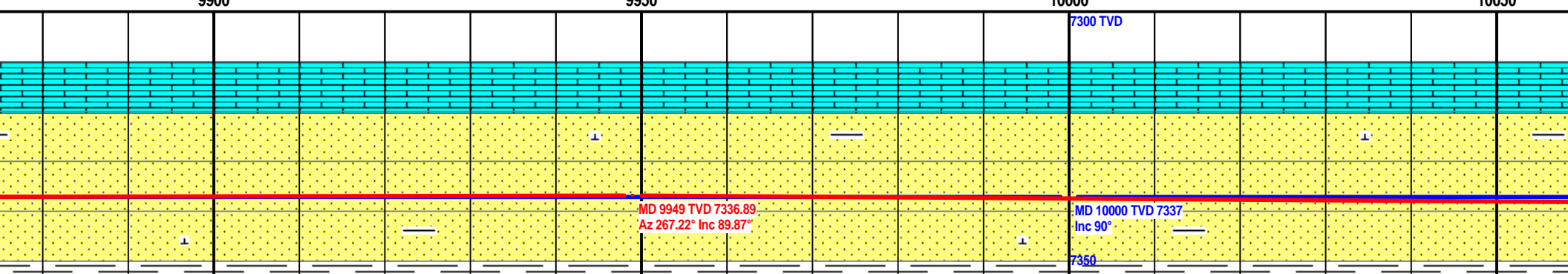


9900

9950

10000

10050



SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, v fri, nsf, mod str wh cut. SH
10%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal.

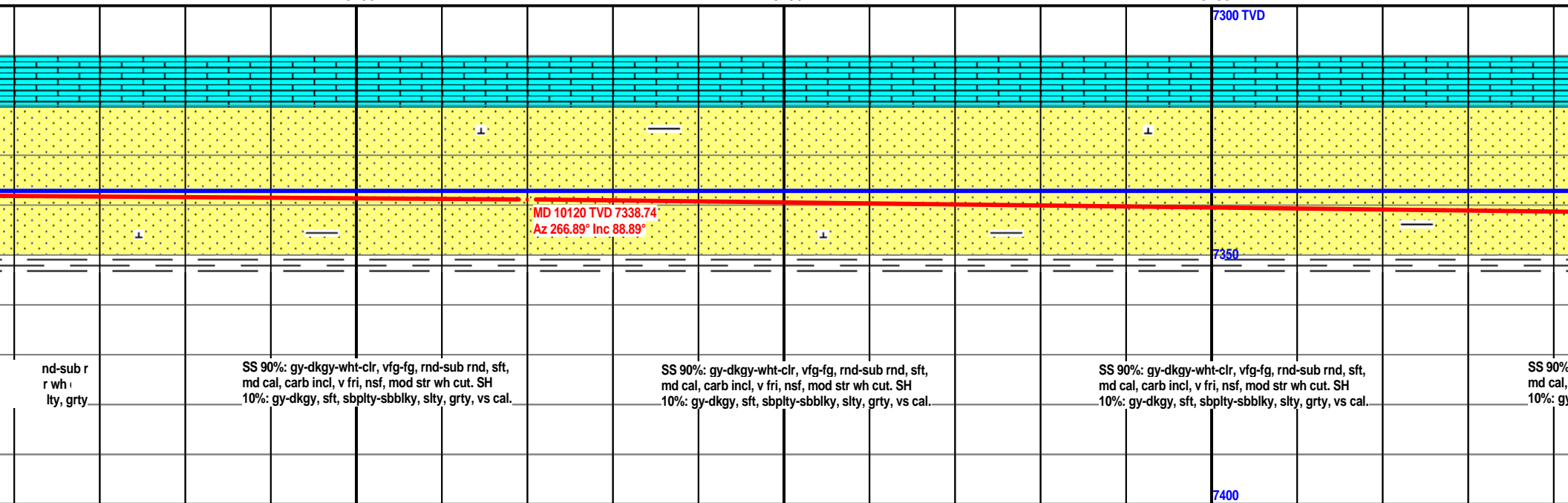
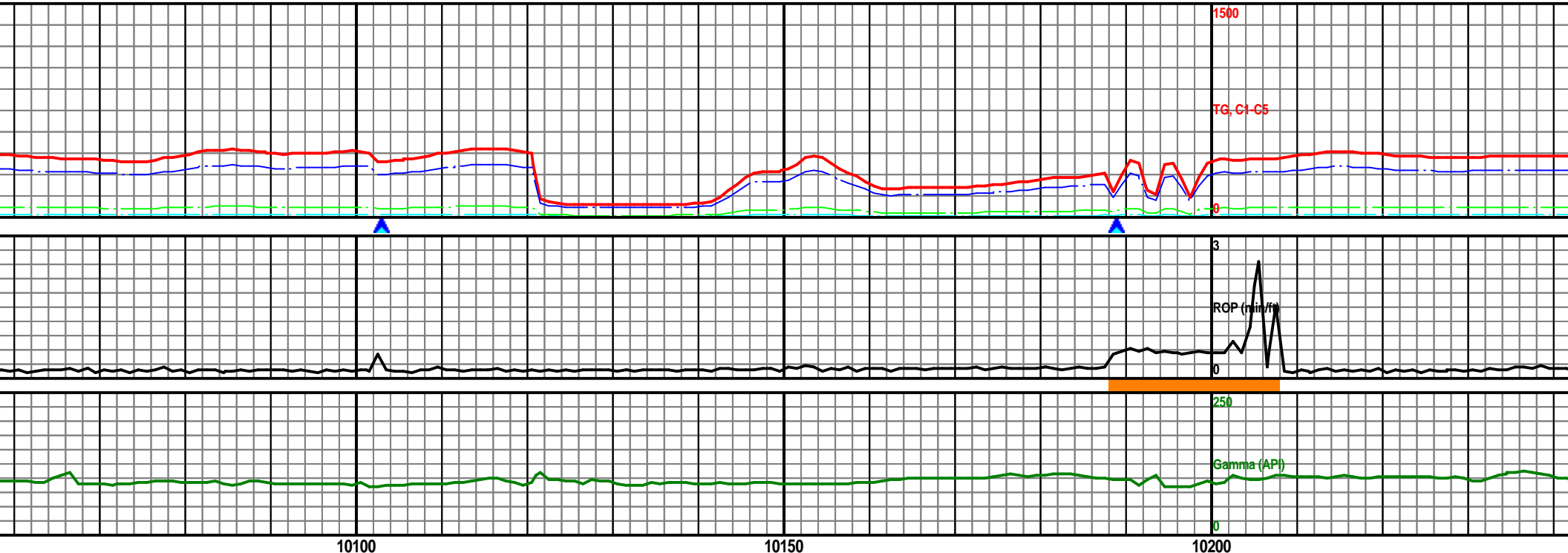
SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, v fri, nsf, mod str wh cut. SH
10%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal.

SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, v fri, nsf, mod str wh cut. SH
10%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal.

SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, v fri, nsf, mod str wh cut. SH
10%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal.

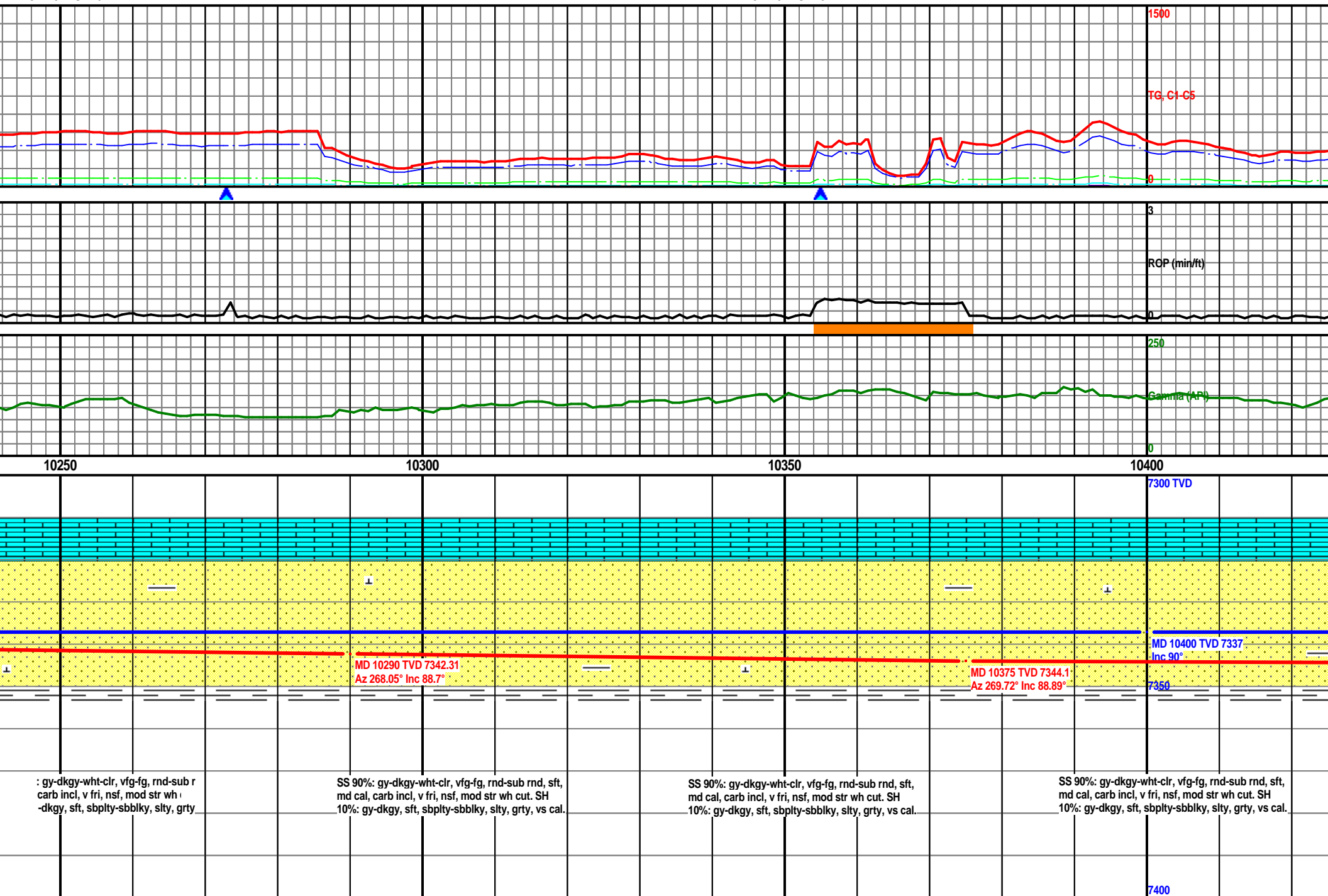
7400

MW: 9.2+ / VIS: 46



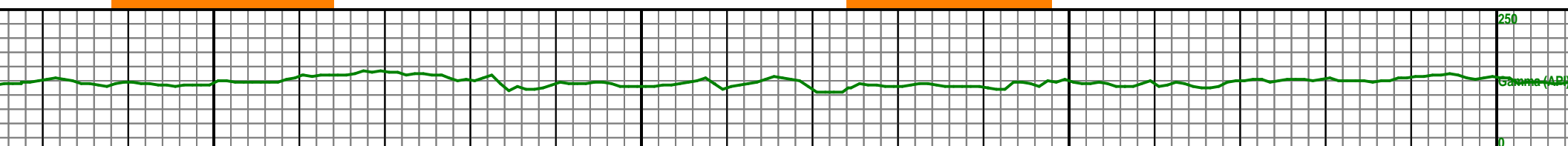
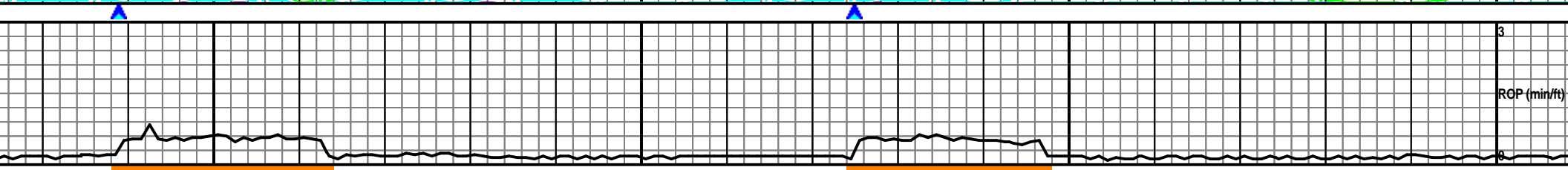
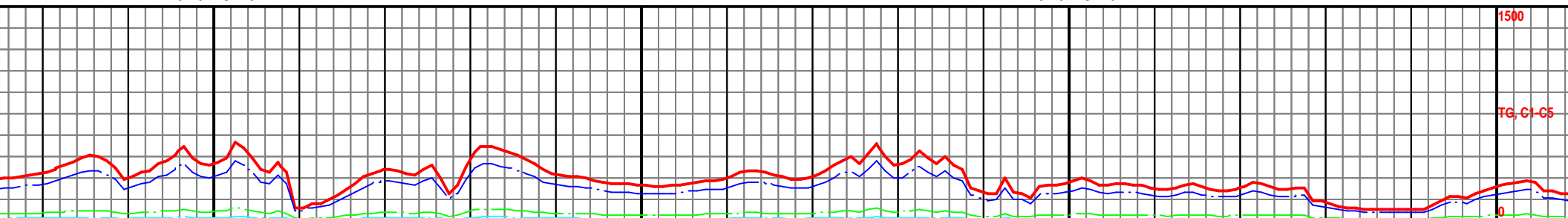
MW: 9.2+ / VIS: 46

MW: 9.2+ / VIS: 46



MW: 9.2 / VIS: 46

MW: 9.2 / VIS: 46

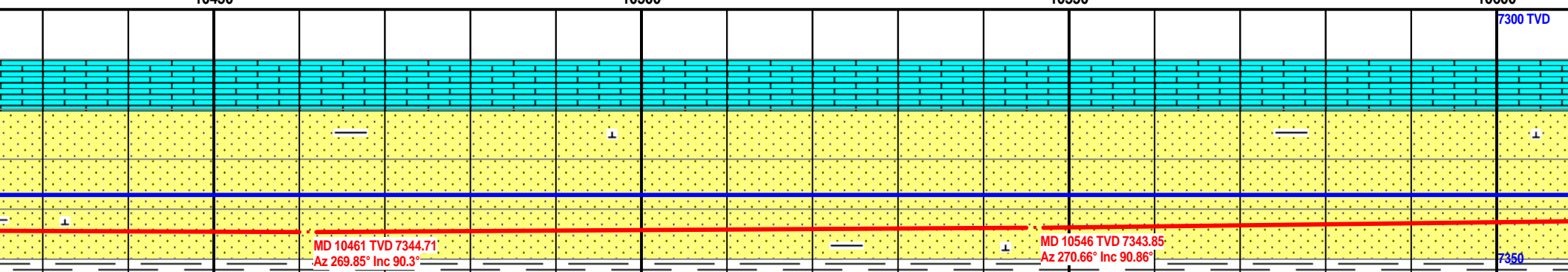


10450

10500

10550

10600



MD 10461 TVD 7344.71
Az 269.85° Inc 90.3°

MD 10546 TVD 7343.85
Az 270.66° Inc 90.86°

SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, v fri, nsf, mod str wh cut. SH
10%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal.

SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, v fri, nsf, mod str wh cut. SH
10%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal.

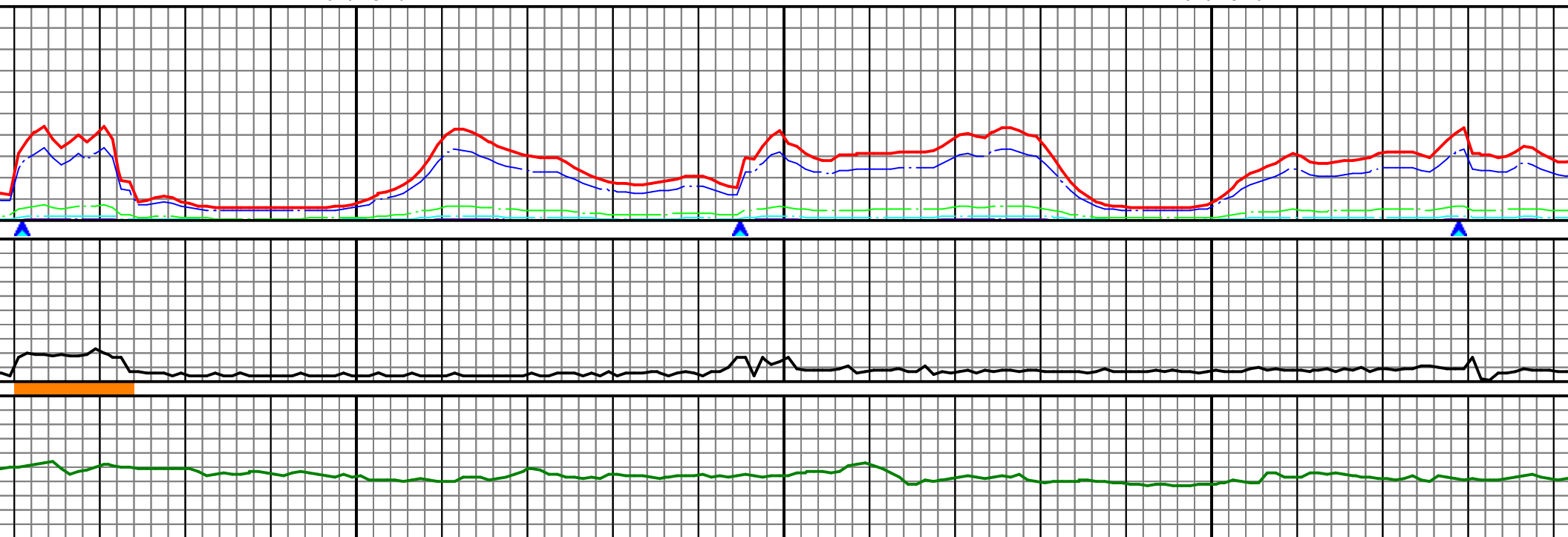
SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, v fri, nsf, mod str wh cut. SH
10%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal.

SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, v fri, nsf, mod str wh cut. SH
10%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal.

7400

MW: 9.2 / VIS: 46

MW: 9.2 / VIS: 45

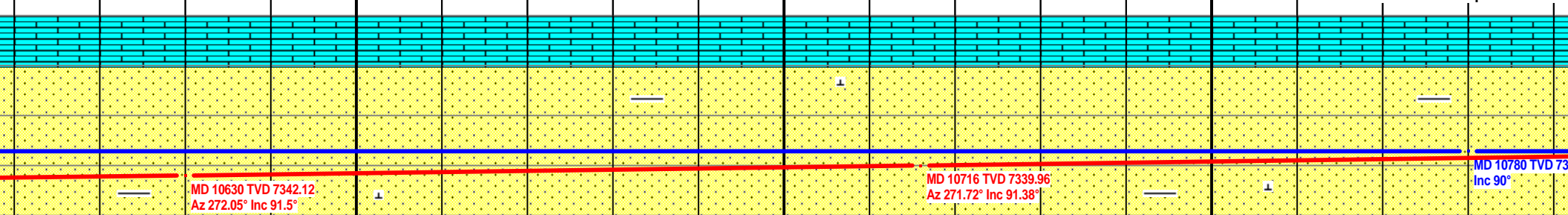


10650

10700

10750

06/05/14 4:00am Depth @ 10785'



MD 10630 TVD 7342.12
Az 272.05° Inc 91.5°

MD 10716 TVD 7339.96
Az 271.72° Inc 91.38°

MD 10780 TVD 7339.96
Inc 90°

rnd-sub r
tr wh i
silty, grty

SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, v fri, nsf, mod str wh cut. SH
10%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal.

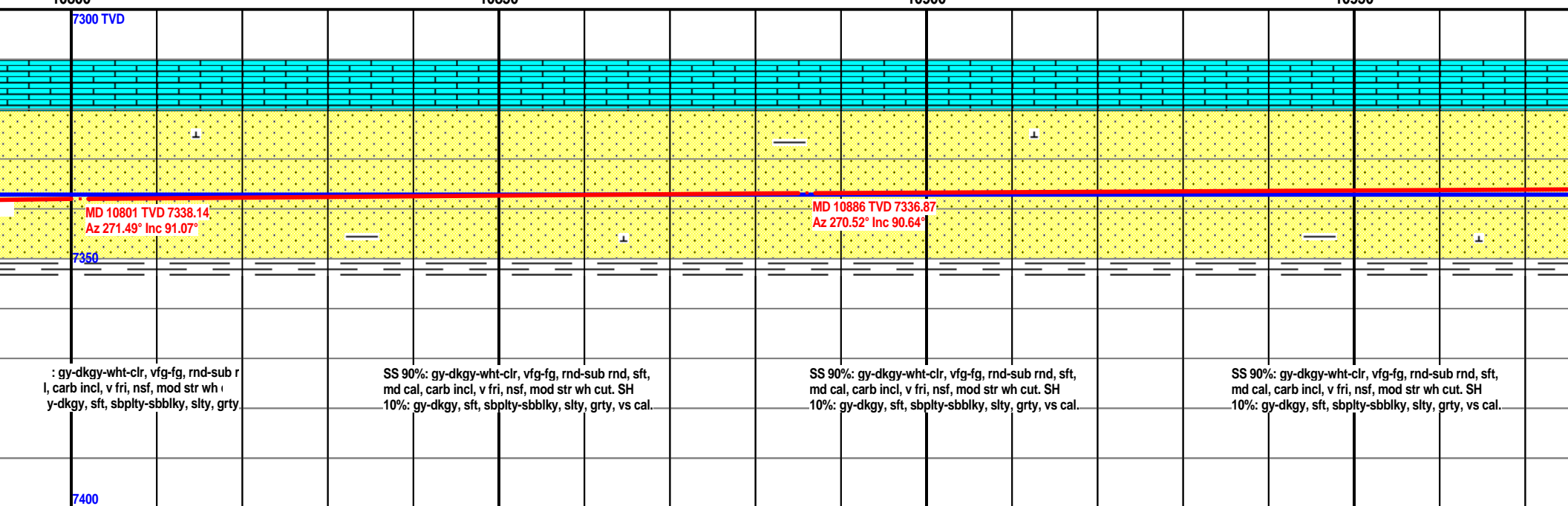
SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, v fri, nsf, mod str wh cut. SH
10%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal.

SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, v fri, nsf, mod str wh cut. SH
10%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal.

SS 90%
md cal
10%:

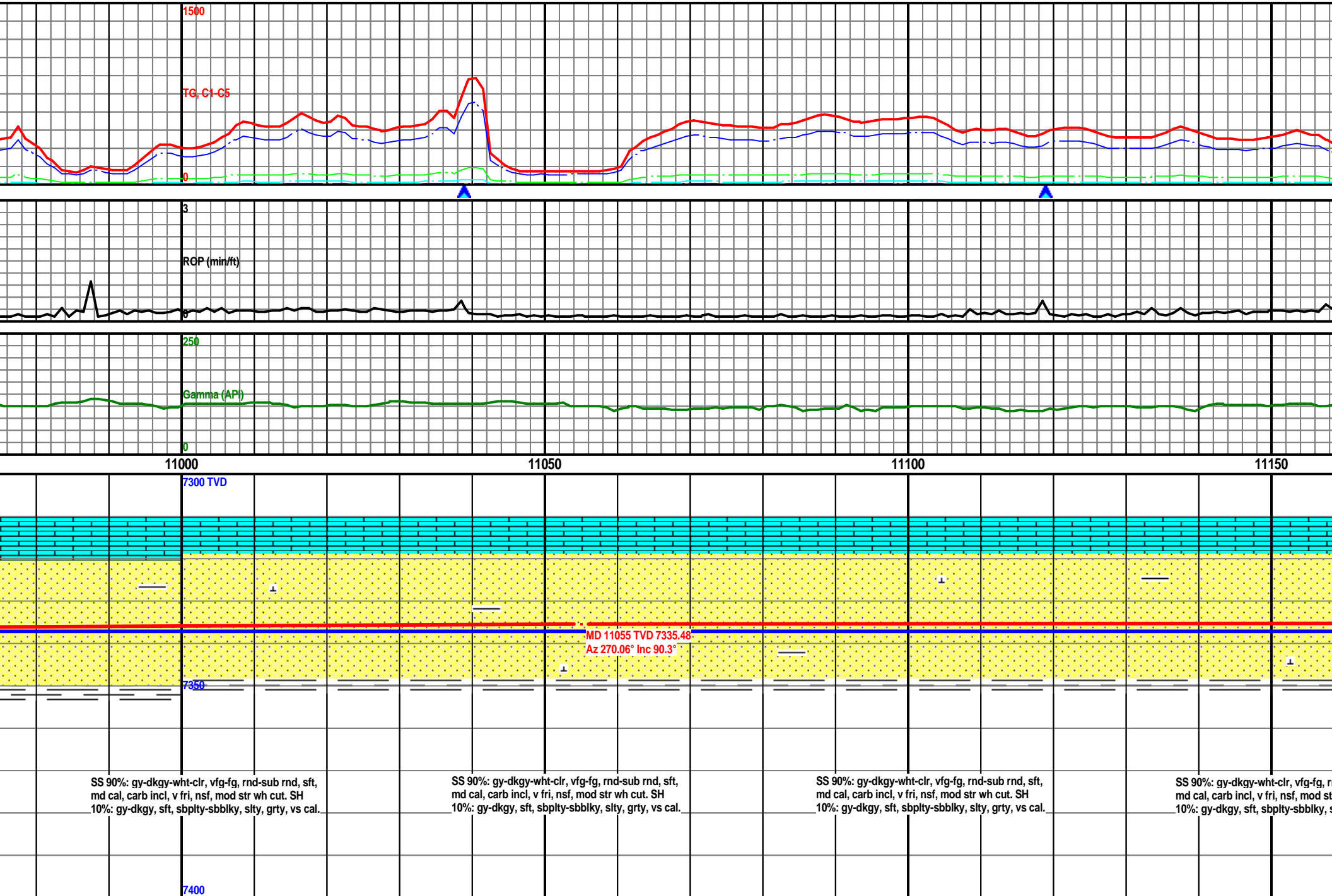
MW: 9.2 / VIS: 45

MW: 9.3 / VIS: 45

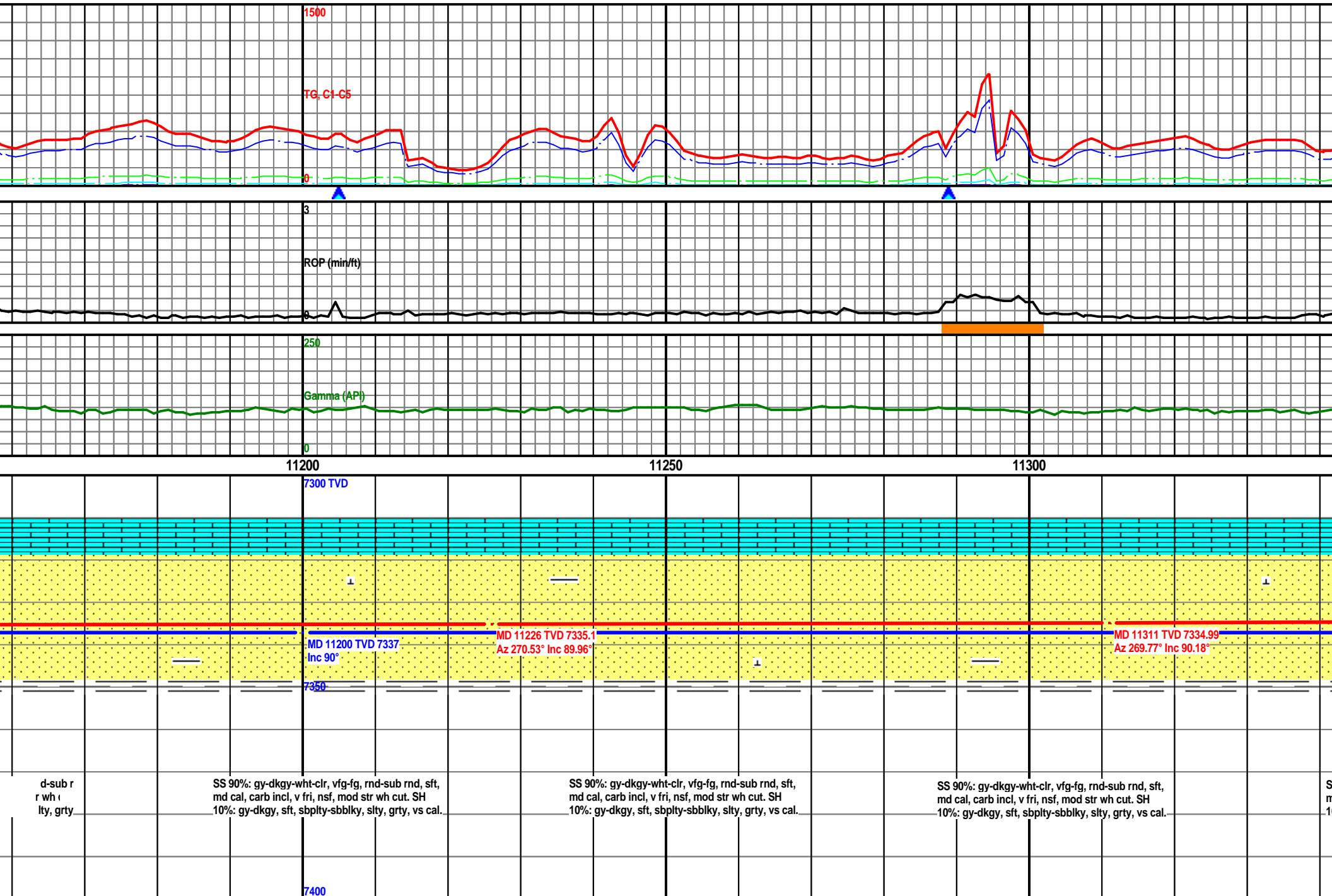


MW: 9.3 / VIS: 45

MW: 9.3 / VIS: 45

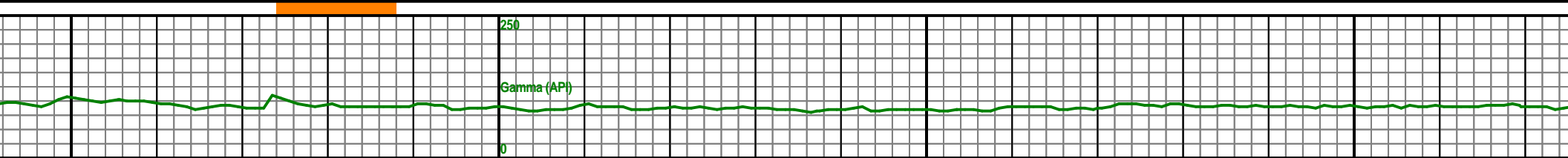
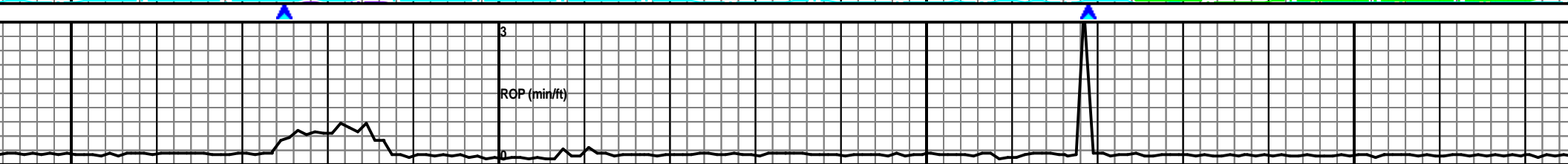
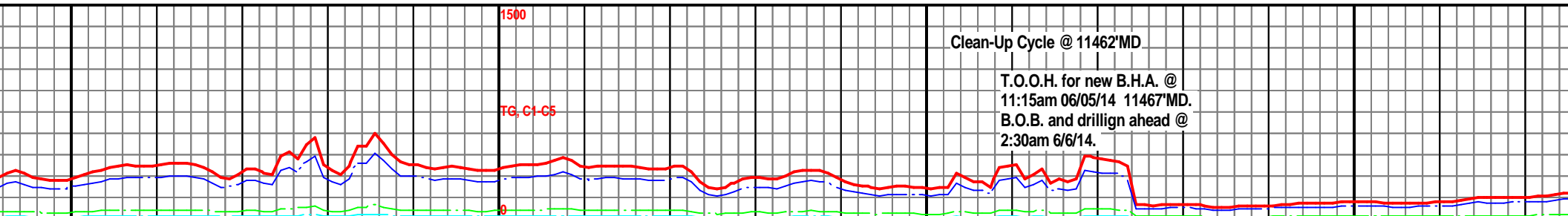


MW: 9.4 / VIS: 46



MW: 9.4 / VIS: 46

MW: 9.3 / VIS: 46

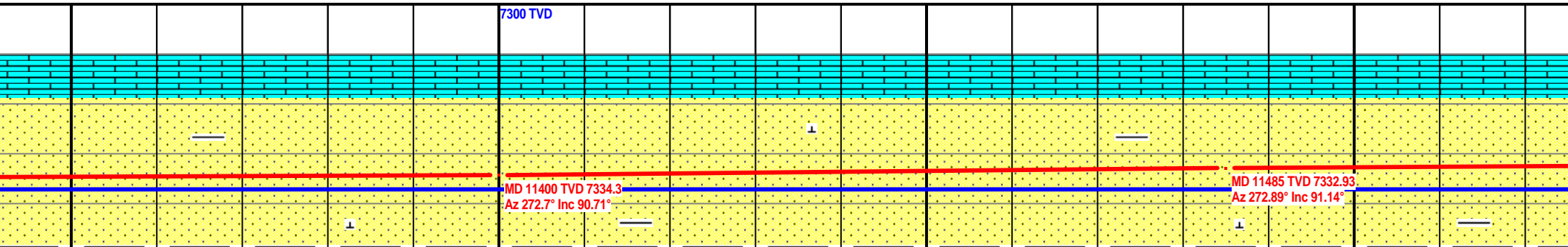


11350

11400

11450

11500



S 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub r
d cal, carb incl, v fri, nsf, mod str wh
%: gy-dkgy, sft, sbply-sbblky, slty, grty

SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, v fri, nsf, mod str wh cut. SH
10%: gy-dkgy, sft, sbply-sbblky, slty, grty, vs cal.

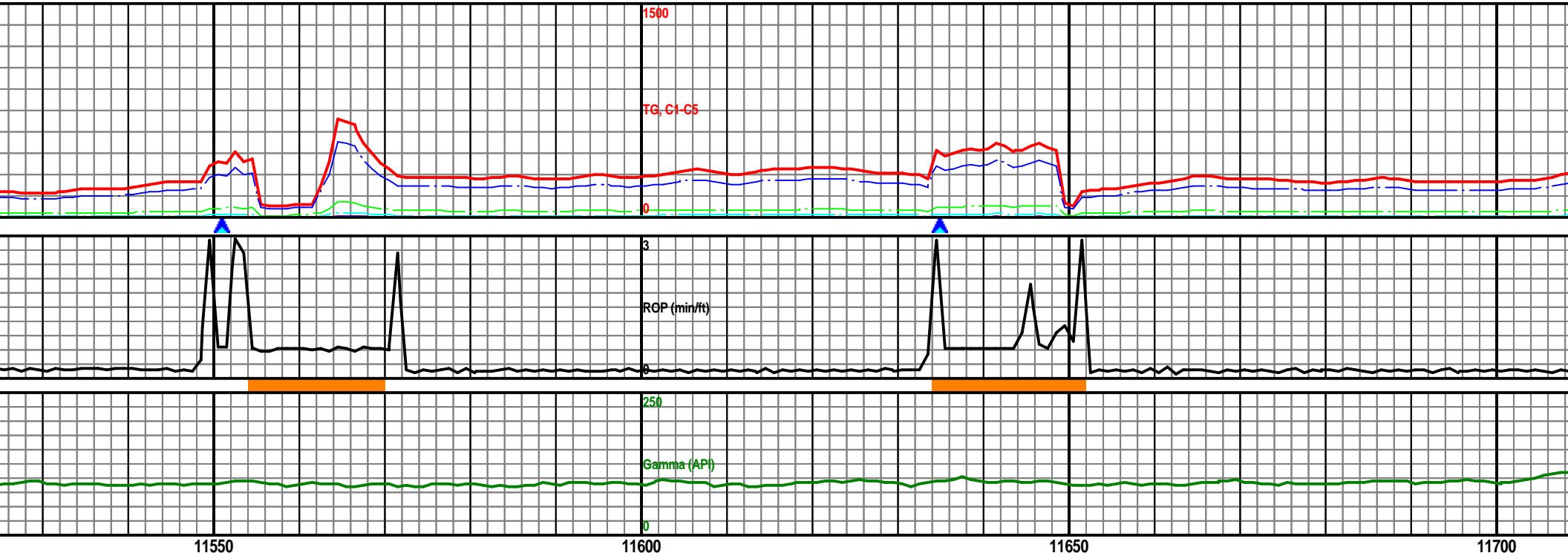
SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, v fri, nsf, mod str wh cut. SH
10%: gy-dkgy, sft, sbply-sbblky, slty, grty, vs cal.

SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, v fri, nsf, mod str wh cut. SH
10%: gy-dkgy, sft, sbply-sbblky, slty, grty, vs cal.

7400

MW: 9.1 / VIS: 44

MW: 9.1 / VIS: 44



11550

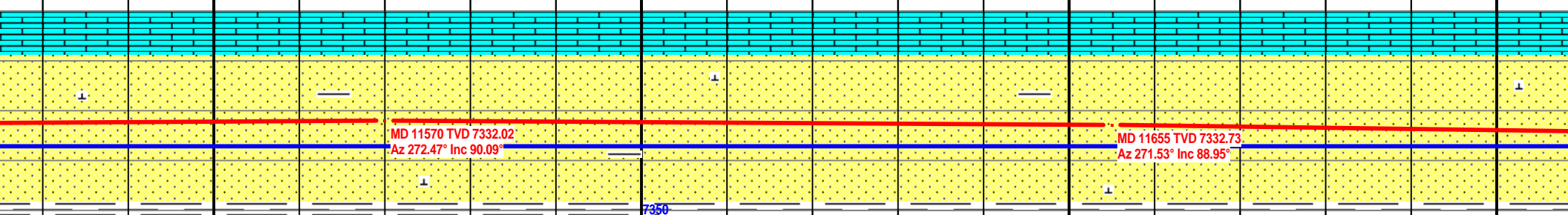
11600

11650

11700

7300 TVD

4:00AM 6/6/14 Depth @ 11649' MD

MD 11570 TVD 7332.02
Az 272.47° Inc 90.09°MD 11655 TVD 7332.73
Az 271.53° Inc 88.95°

7350

SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, v fri, nsf, mod str wh cut. SH
10%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal.

SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, v fri, nsf, mod str wh cut. SH
10%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal.

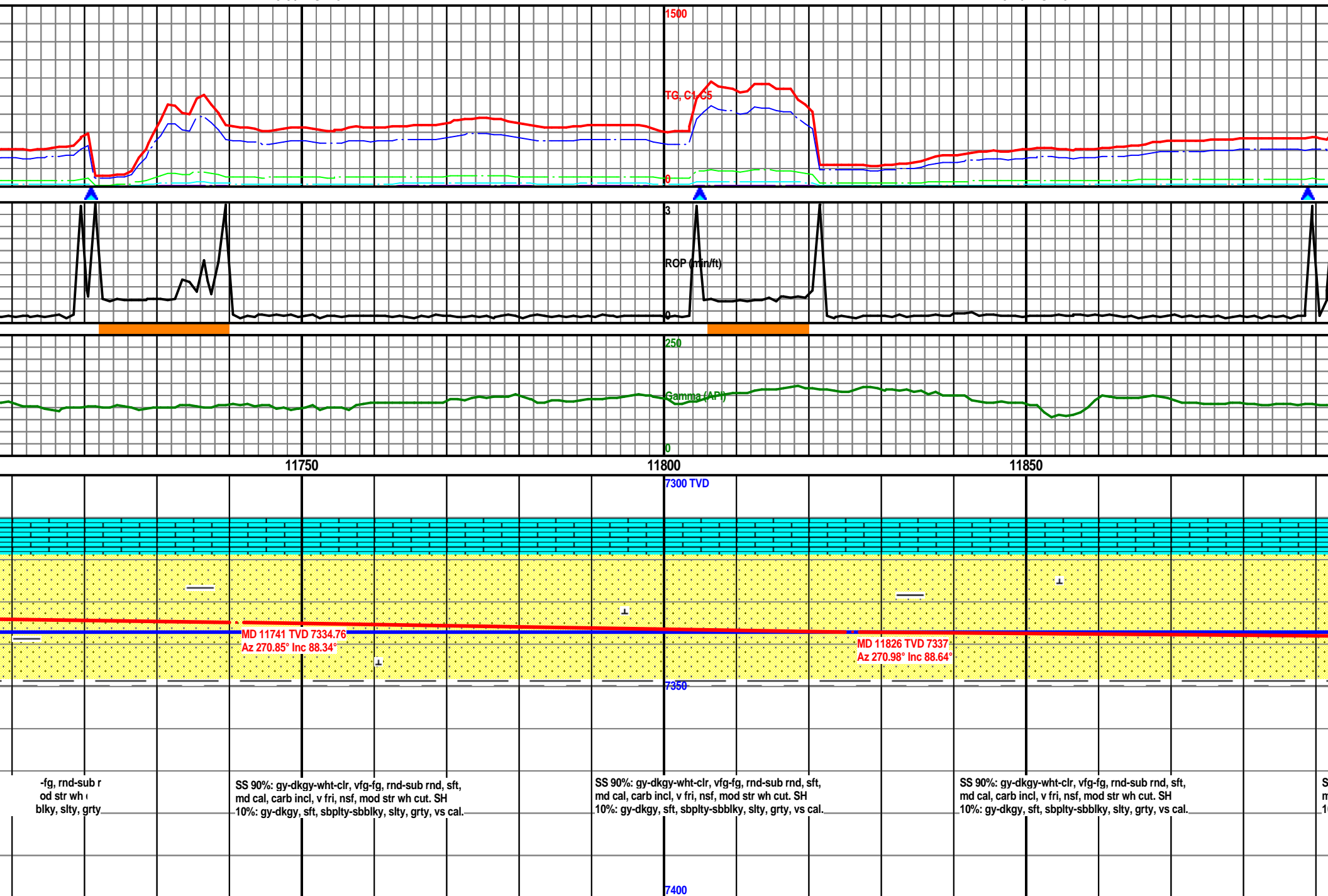
SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, v fri, nsf, mod str wh cut. SH
10%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal.

SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, v fri, nsf, mod str wh cut. SH
10%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal.

7400

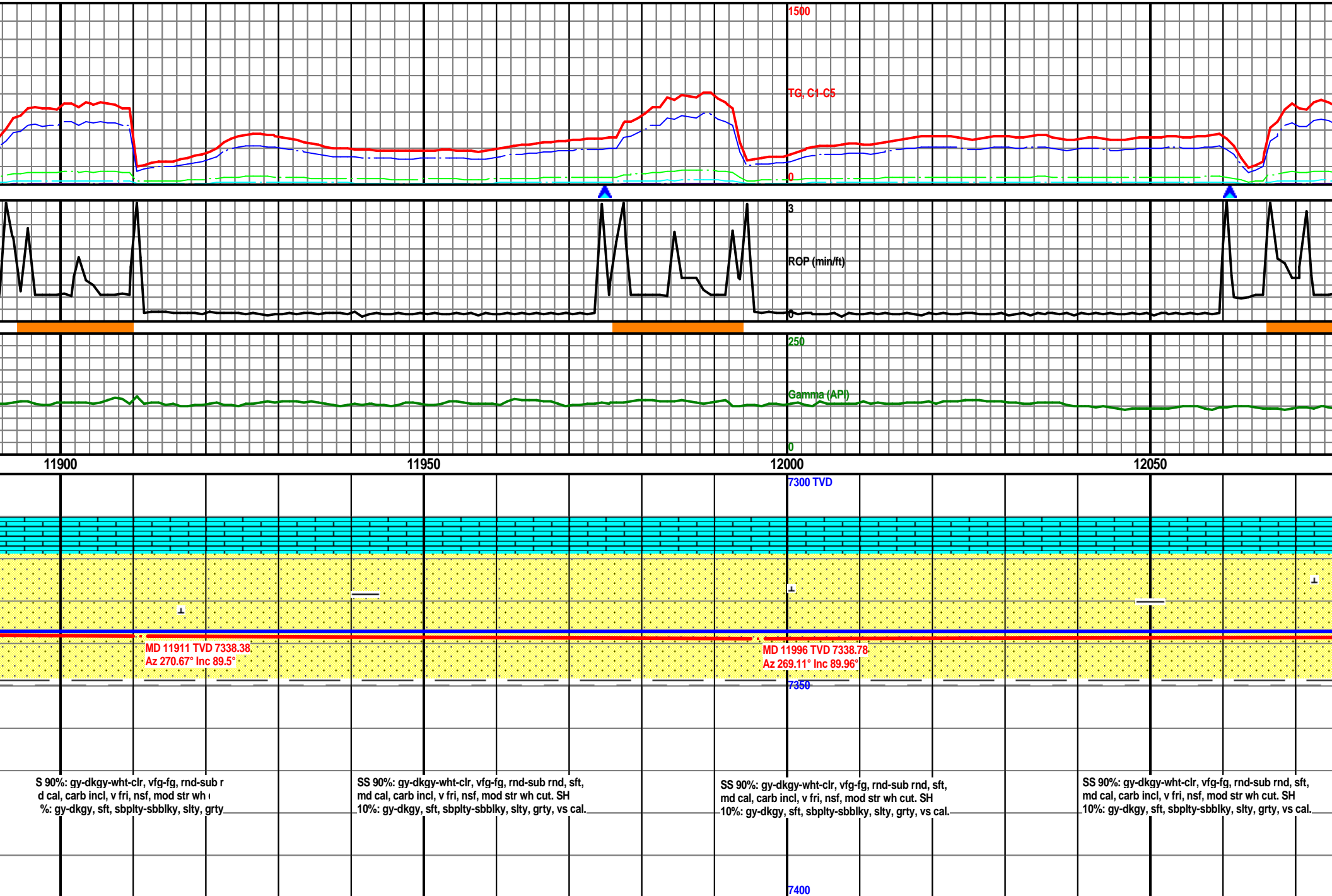
MW: 9.0 / VIS: 43

MW: 9.1 / VIS: 43



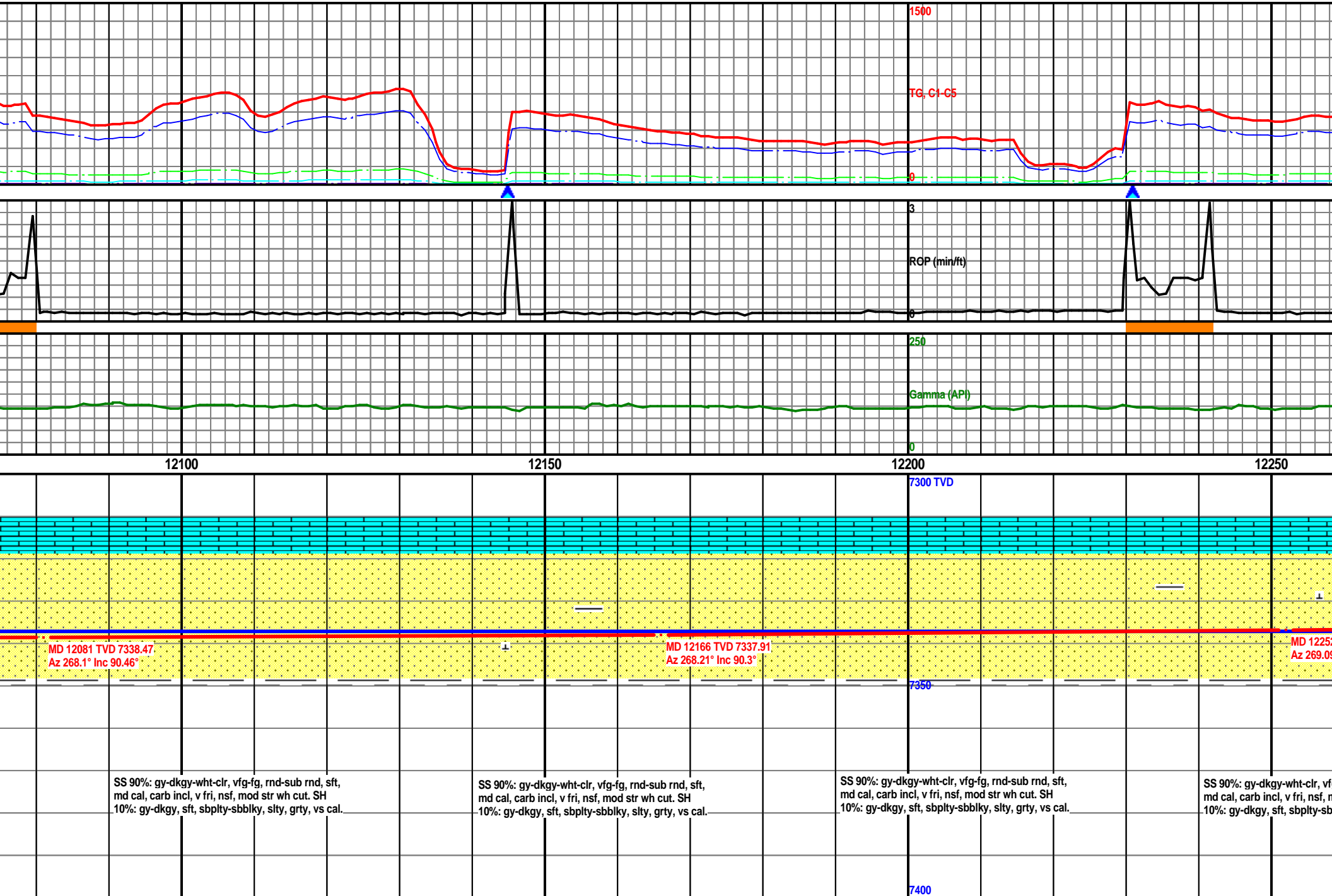
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MW: 9.0 / VIS: 46

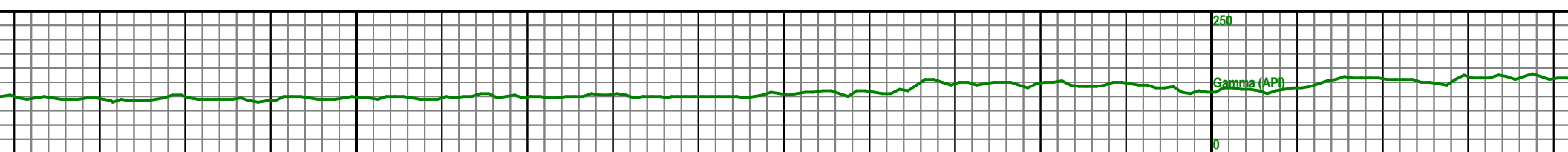
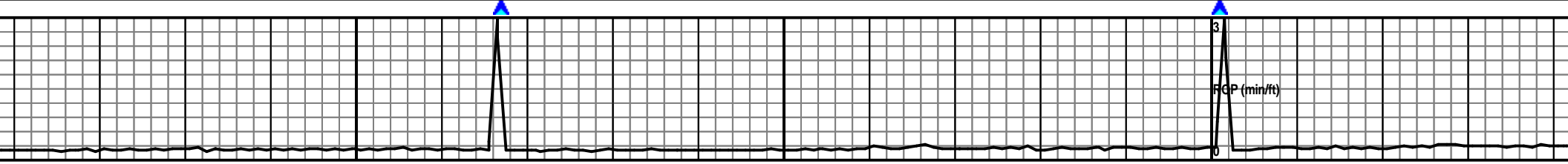
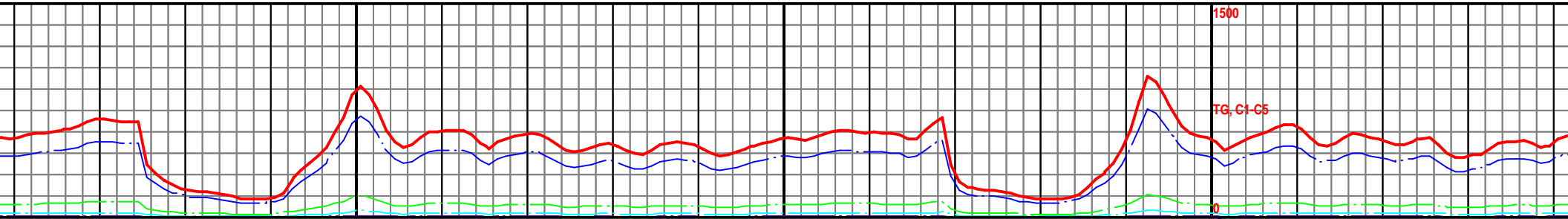


MW: 9.0 / VIS: 47

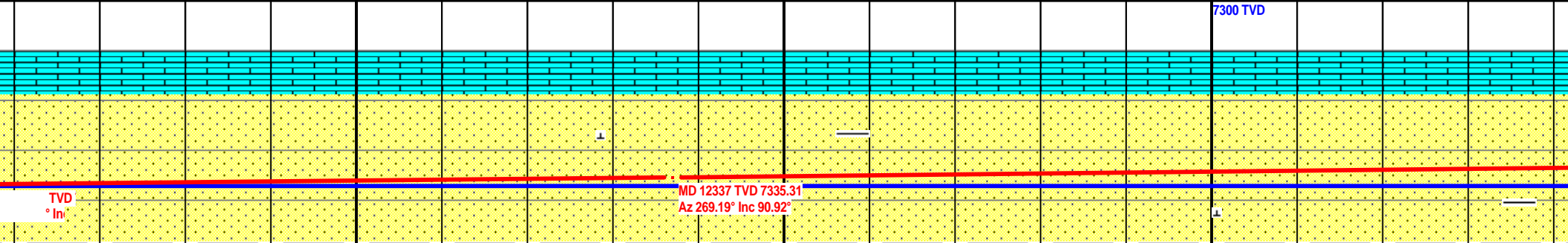
MW: 9.0 / VIS: 47



MW: 9.0 / VIS: 47



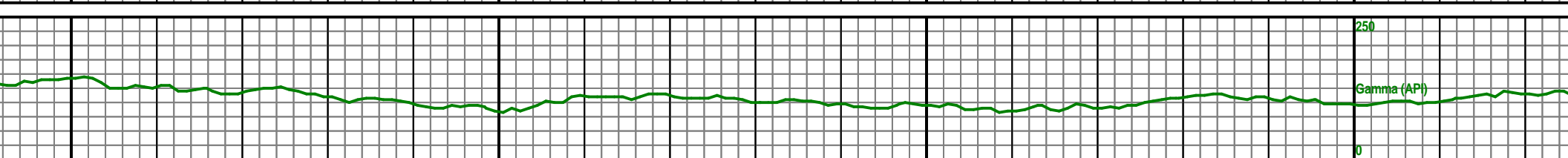
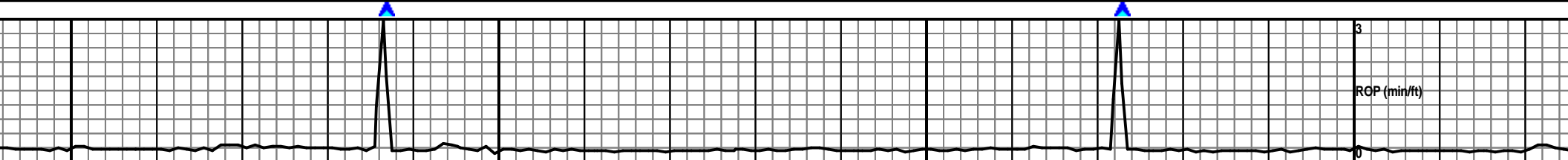
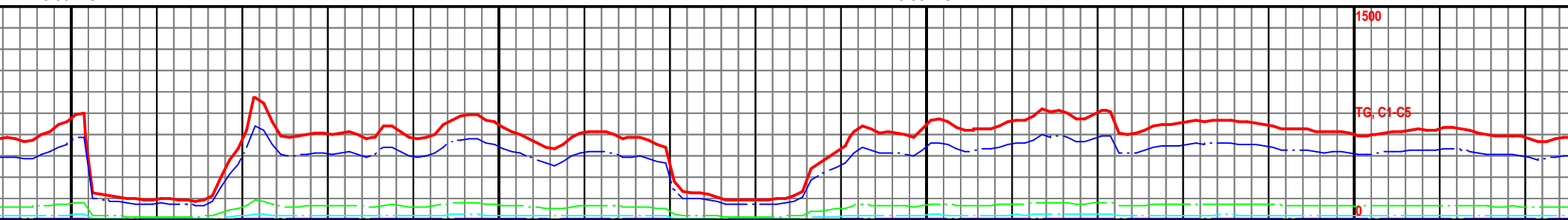
12300 12350 12400



-fg, rnd-sub r od str wh i blky, slty, grty	SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft, md cal, carb incl, v fri, nsf, mod str wh cut. SH 10%: gy-dkgy, sft, sbplty-sbbiky, slty, grty, vs cal.	SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft, md cal, carb incl, v fri, nsf, mod str wh cut. SH 10%: gy-dkgy, sft, sbplty-sbbiky, slty, grty, vs cal.	SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft, md cal, carb incl, v fri, nsf, mod str wh cut. SH 10%: gy-dkgy, sft, sbplty-sbbiky, slty, grty, vs cal.	S m 10
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MW: 9.0 / VIS: 47

MW: 9.0 / VIS: 47

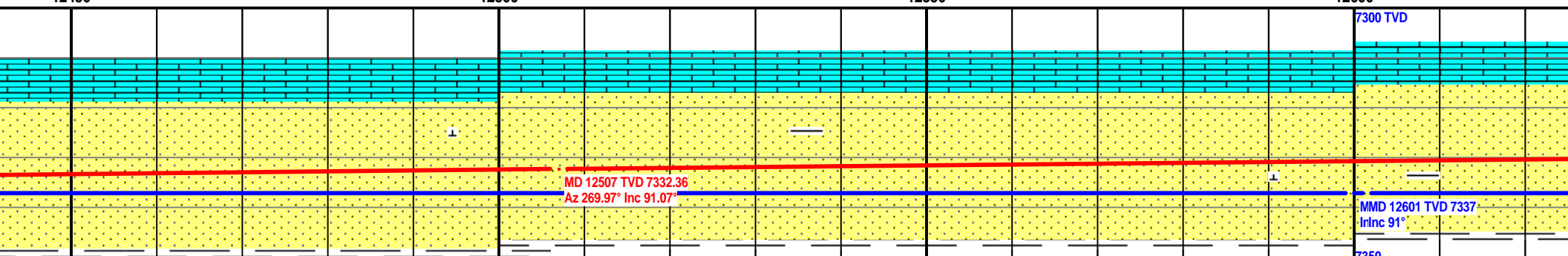


12450

12500

12550

12600



90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub r
d cal, carb incl, v fri, nsf, mod str wh i
%: gy-dkgy, sft, sbplty-sbbiky, slty, grty

SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, v fri, nsf, mod str wh cut. SH
10%: gy-dkgy, sft, sbplty-sbbiky, slty, grty, vs cal.

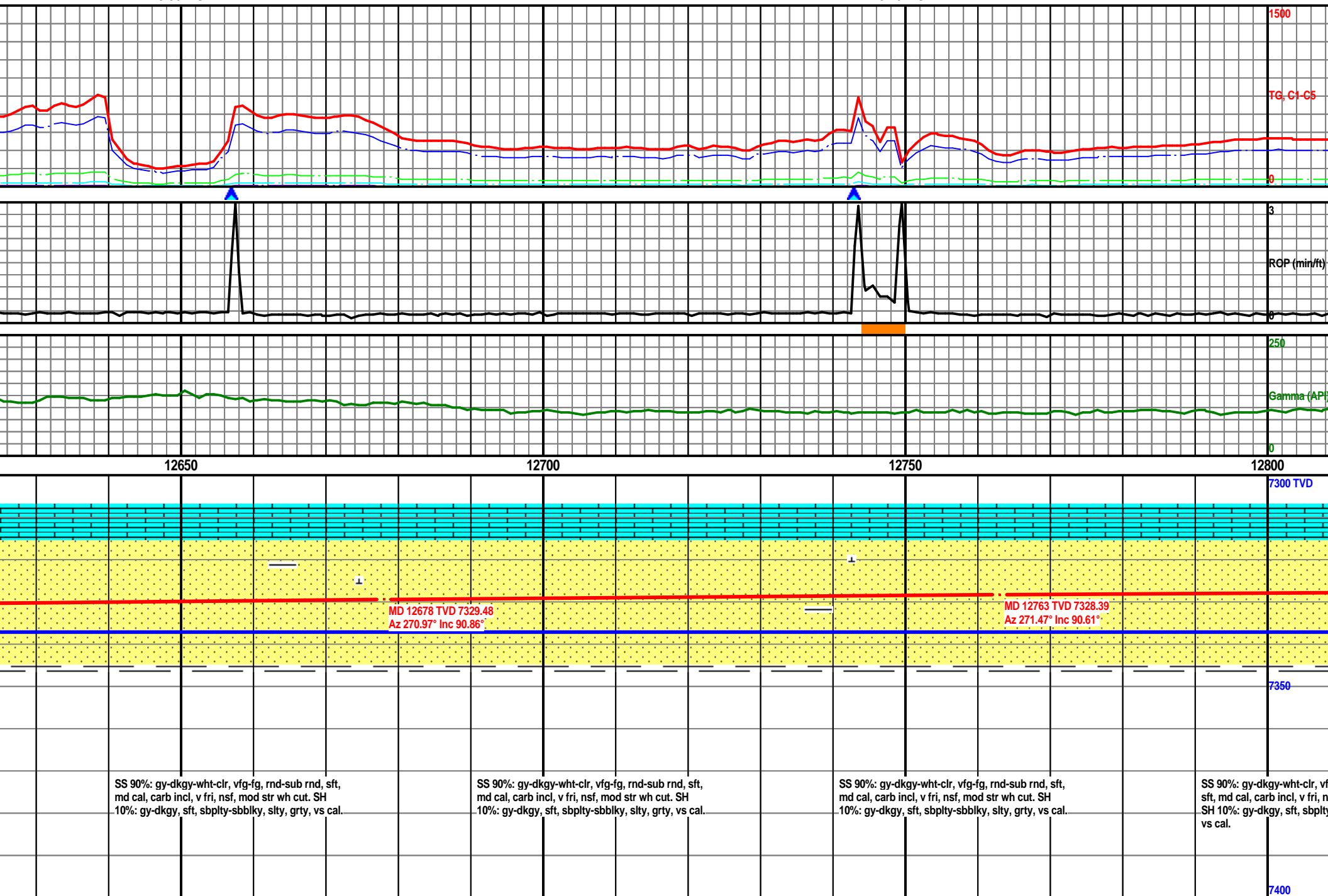
SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, v fri, nsf, mod str wh cut. SH
10%: gy-dkgy, sft, sbplty-sbbiky, slty, grty, vs cal.

SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd,
sft, md cal, carb incl, v fri, nsf, mod str wh cut.
SH 10%: gy-dkgy, sft, sbplty-sbbiky, slty, grty,
vs cal.

7400

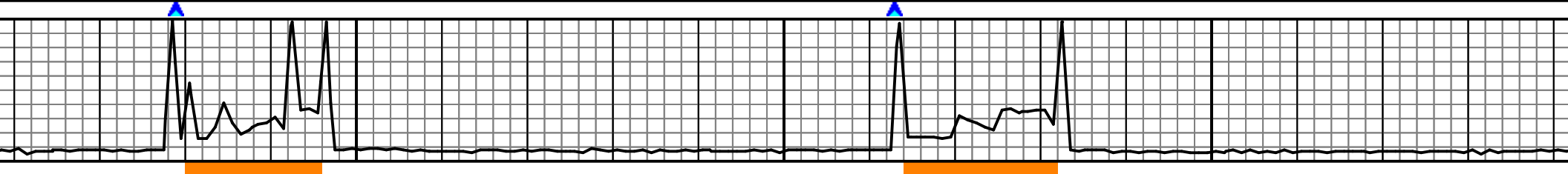
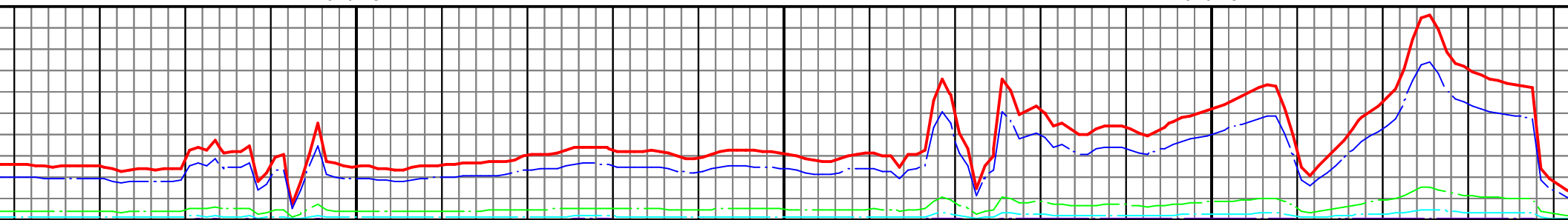
MW: 9.0 / VIS: 47

MW: 9.1 / VIS: 47



MW: 9.1 / VIS: 47

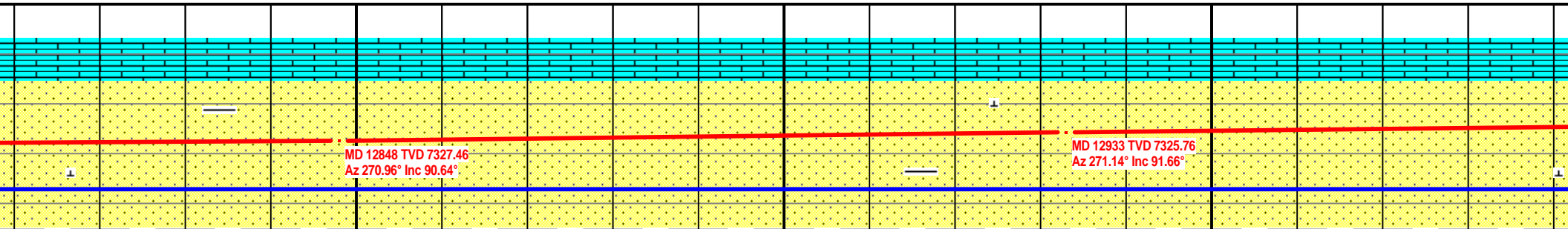
MW: 9.1 / VIS: 47



12850

12900

12950



MD 12848 TVD 7327.46
Az 270.96° Inc 90.64°

MD 12933 TVD 7325.76
Az 271.14° Inc 91.66°

g-fg, rnd-si
sf, mod str
-sbbiky, slt

SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, v fri, nsf, mod str wh cut. SH
10%: gy-dkgy, sft, sbply-sbbiky, slty, grty, vs cal.

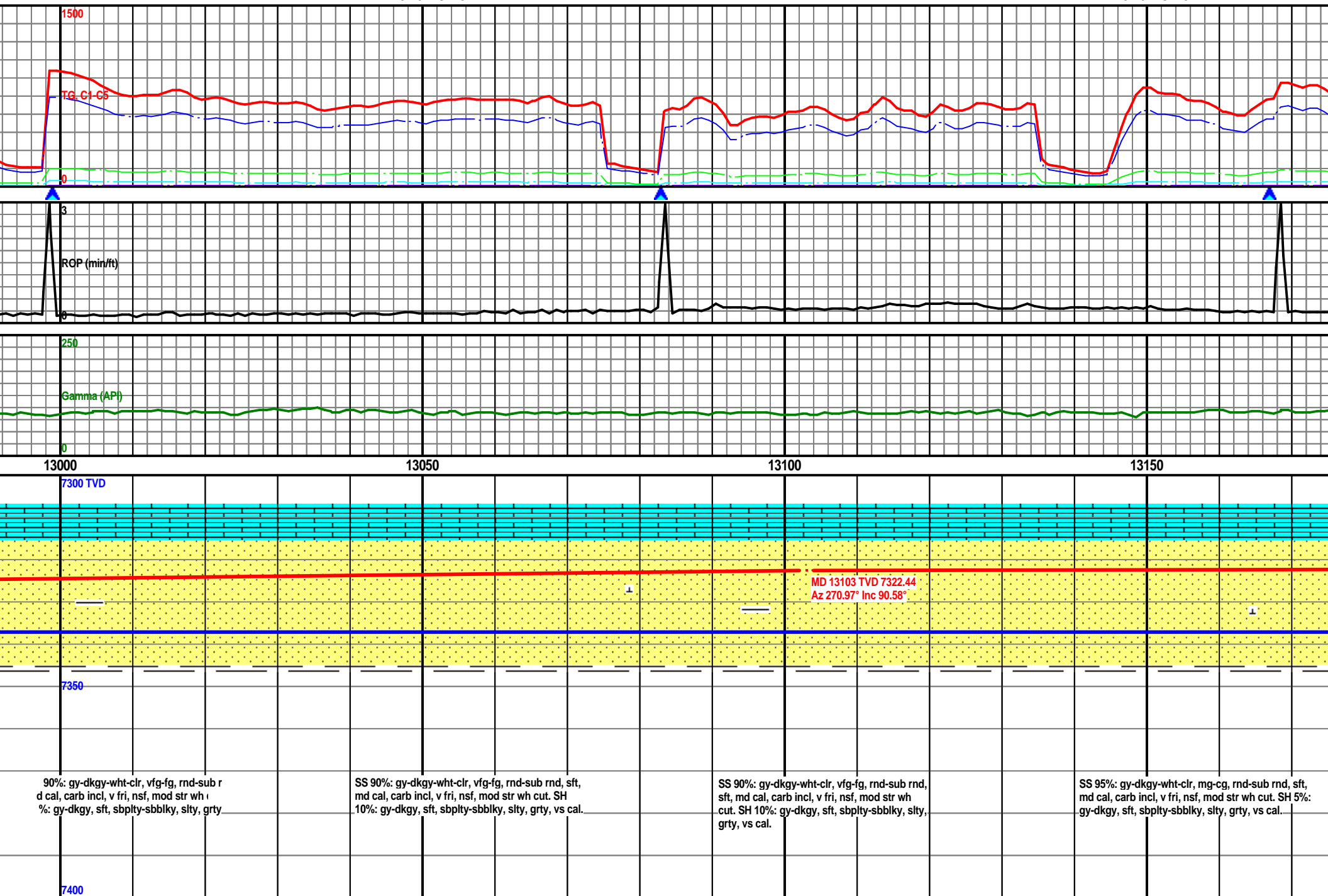
SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, v fri, nsf, mod str wh cut. SH
10%: gy-dkgy, sft, sbply-sbbiky, slty, grty, vs cal.

SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft,
md cal, carb incl, v fri, nsf, mod str wh cut. SH
10%: gy-dkgy, sft, sbply-sbbiky, slty, grty, vs cal.

S
m
10

MW: 9.1 / VIS: 49

MW: 9.1 / VIS: 49



MW: 9.4 / VIS: 49

MW: 9.4 / VIS: 49

