



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

Well Name: Hansen State 26C-36HZ
Well Id:
Location: Weld County, CO.
License Number: 05123391950000
Spud Date: 10/17/2014
Surface Coordinates: 711' FNL, 665' FWL, SEC 35, T3N-R36W
Region: DJ Basin
Drilling Completed: 10/27/14
Bottom Hole Coordinates: 290' FNL, 50' FEL, SEC 35, T3N-R36W
Ground Elevation (ft): 4936' **K.B. Elevation (ft):** 4952'
Logged Interval (ft): 6620' **To:** 16951' **Total Depth (ft):** 16951'
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

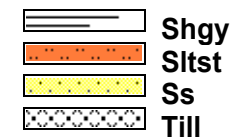
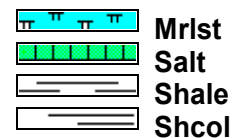
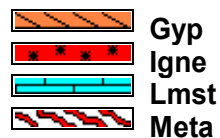
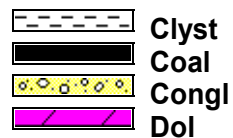
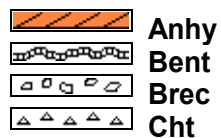
Name: Aaron Wiggins/Ben Thompson
Company: Great Divide Consulting, Inc.
Address: P.O. Box 630263
Highlands Ranch, CO 80163

Cores

DSTs

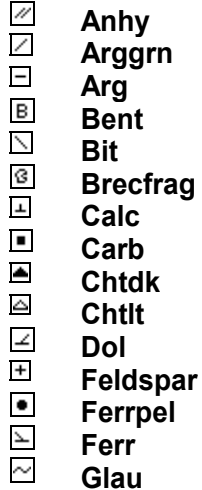
Comments

ROCK TYPES

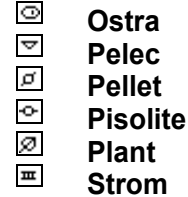
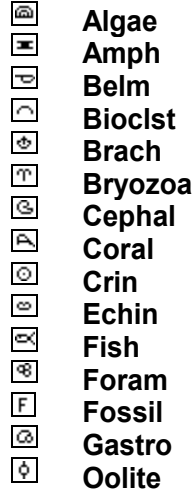


ACCESSORIES

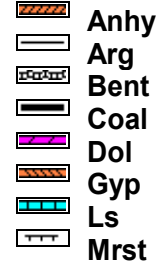
MINERAL



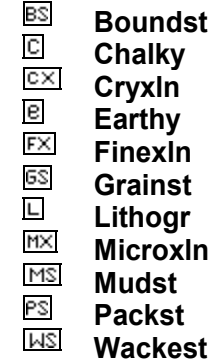
FOSSIL










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**

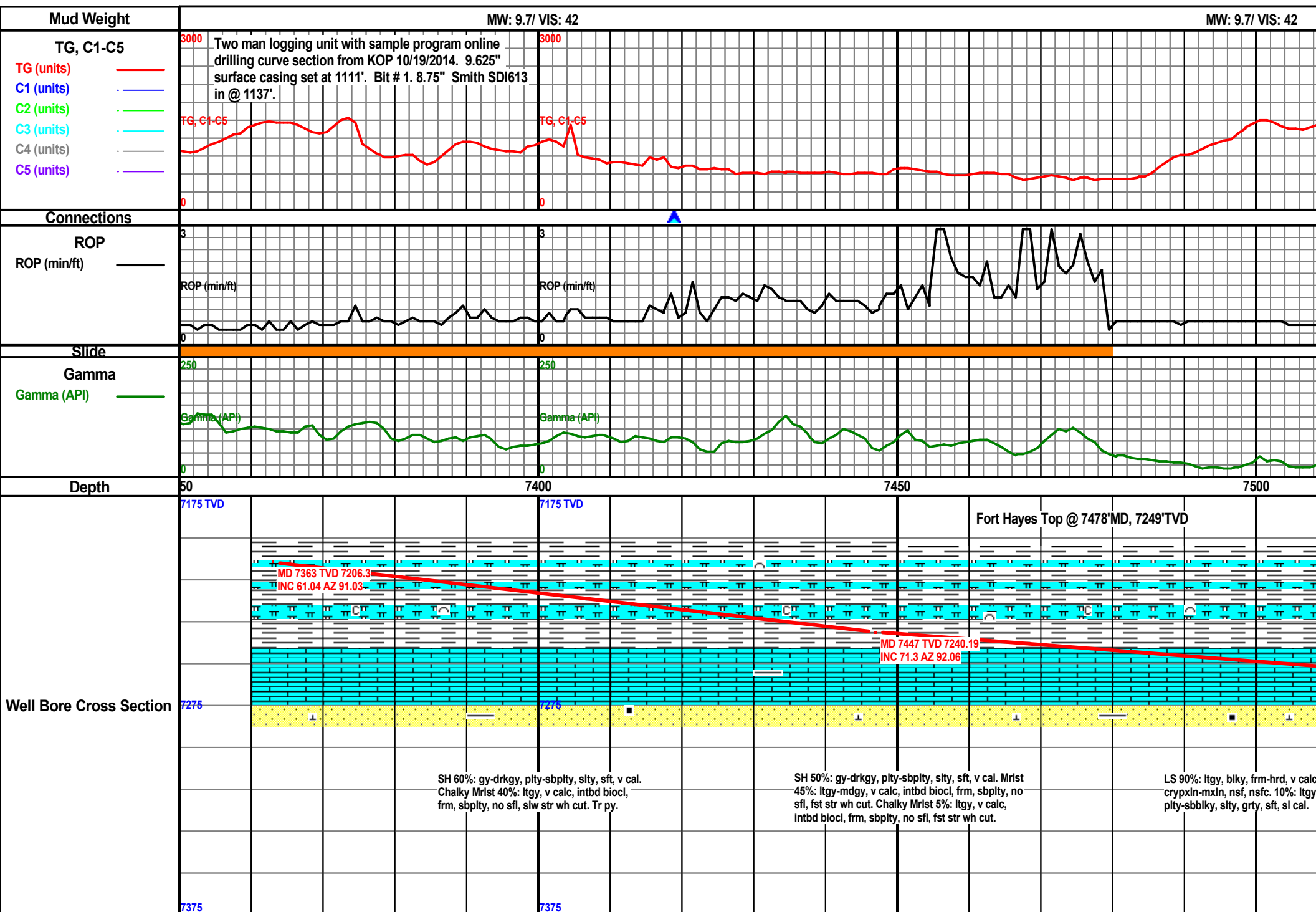
 Ques
 Dead

INTERVAL

 Core
 Dst

EVENT

 Rft
 Connection



MW: 9.7/ VIS: 42

3000

Pason Gas Error

TG, G1-C5

0

Curve TD @ 7653' MD achieved @ 11:39pm
10/19/14. T.O.O.H. for intermediate casing. B.O.B
and drilling ahead with bit # 2 6.125" Smith
SDI513 in at 7653'. @ 9:21pm 10/21/14.

3

ROP (min/ft)

0

Gamma (API)

0

7550

7600

7650

7175 TVD

Target: 7280' TVD @ 0° VS w/ 90° inc
Drilling window: 5' up / 5' down

MD 7533 TVD 7262.45
INC 78.69 AZ 88.92

MD 7590 TVD 7269.97
INC 86.14 AZ 88.52

MD 7650 TVD 7280
INC 90

MD 7670 TVD 7273.55
INC 88.73 AZ 88.89

LS 98%: ltgy, blkly, frm-hrd, v calc,
crypxln-mxln, nsf, nsfc. 2%: ltgy-gy,
ply-sbbkly, slty, grty, sft, sl cal.

LS 99%: ltgy, blkly, frm-hrd, v calc,
crypxln-mxln, nsf, nsfc. 1%: ltgy-gy,
ply-sbbkly, slty, grty, sft, sl cal.

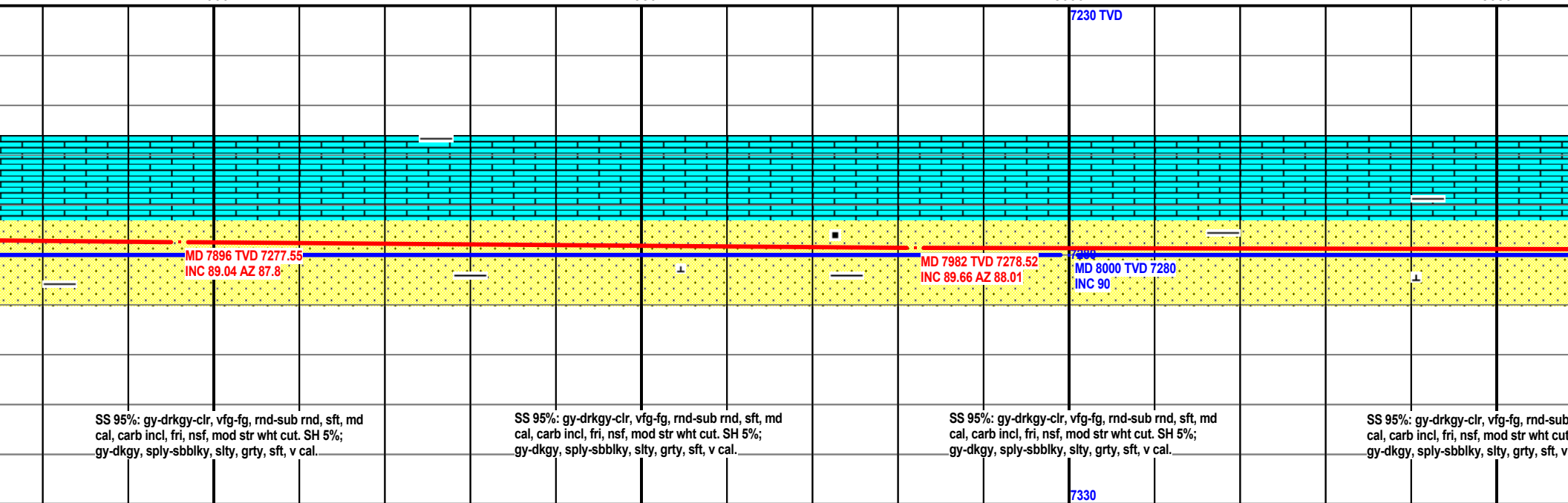
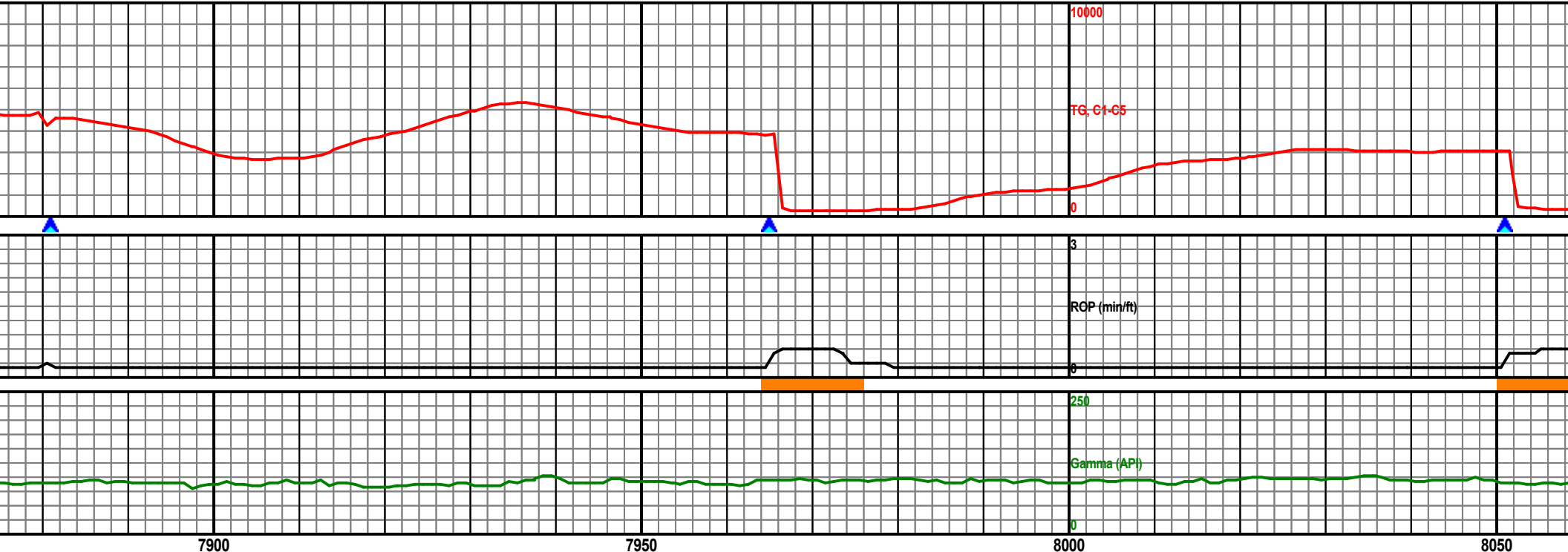
SS 45%: gy-drkgy-clr, vfg-fg, rnd-sub rnd, sft, md
cal, carb incl, fri, nsf, nsfc. LS 40%: ltgy, blkly,
frm-hrd, v calc, crypxln-mxln, tr py, nsf, nsfc. SH
15%: gy-dkgy, sply-sbbkly, slty, grty, sft, v cal.

SS 95%: gy
cal, carb in
sply-sbbkly

7375

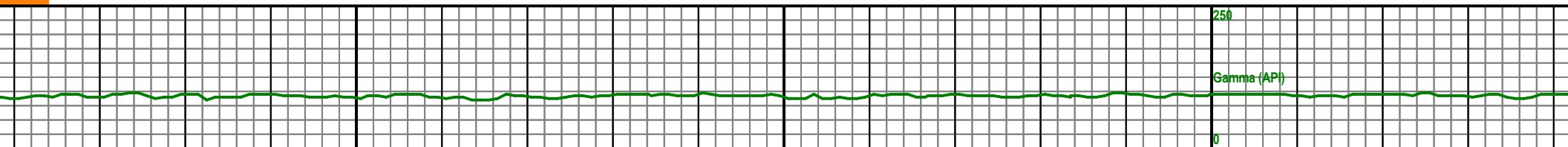
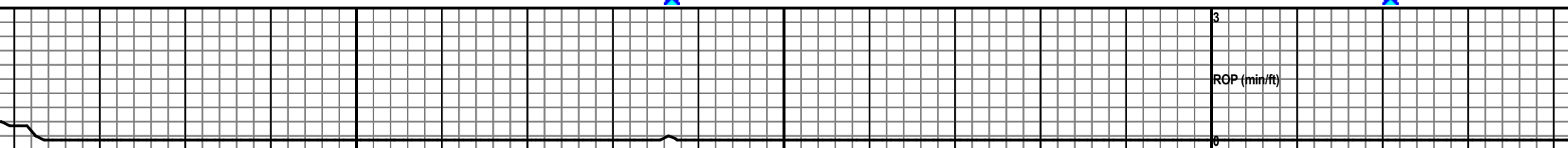
MW: 9.2/ VIS: 42

MW: 9.3/ VIS: 43



MW: 9.3/ VIS: 43

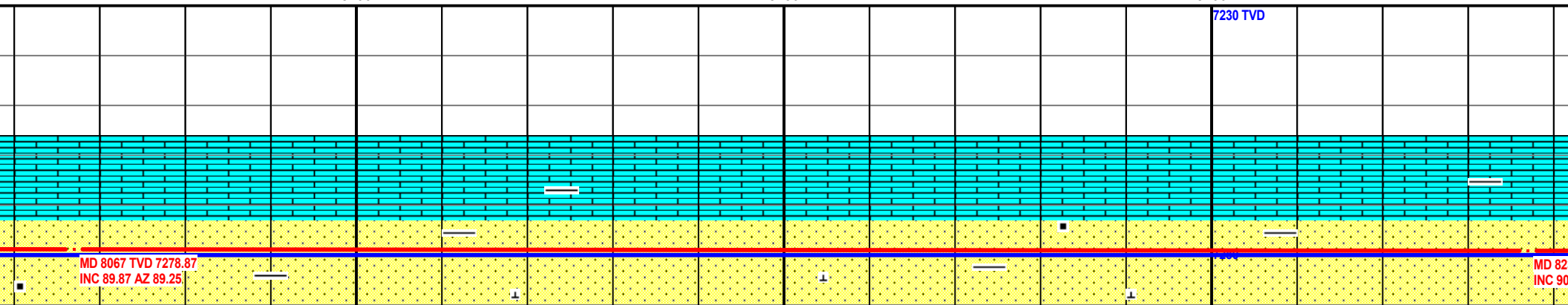
MW: 9.3/ VIS: 43



8100

8150

8200

rnd,
.

SS 95%: gy-drkggy-clr, vfg-fg, rnd-sub rnd, sft, md
cal, carb incl, fri, nsf, mod str wht cut. SH 5%;
gy-dkgy, sply-sbblky, slty, grty, sft, v cal.

SS 95%: gy-drkggy-clr, vfg-fg, rnd-sub rnd, sft, md
cal, carb incl, fri, nsf, mod str wht cut. SH 5%;
gy-dkgy, sply-sbblky, slty, grty, sft, v cal.

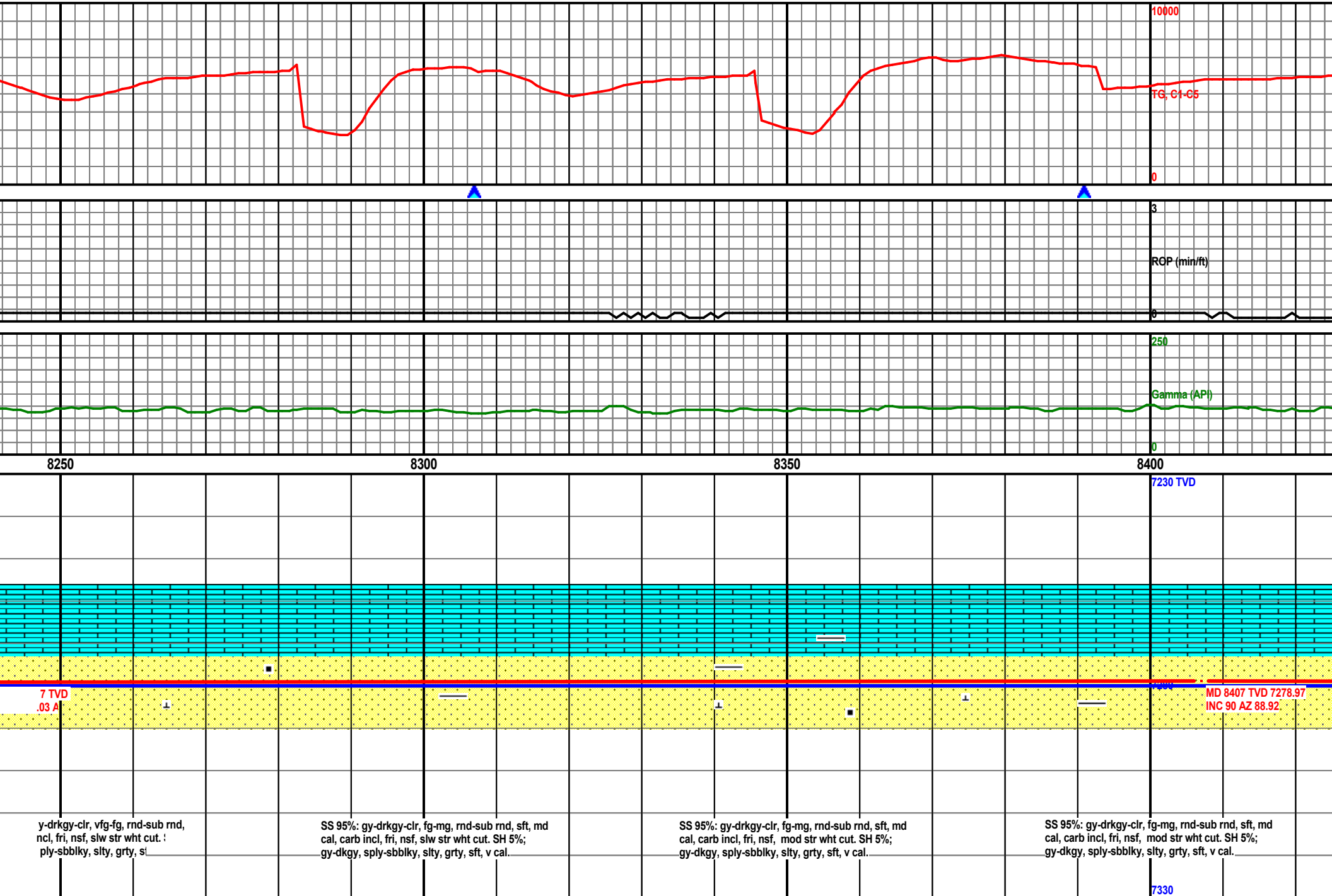
SS 95%: gy-drkggy-clr, vfg-fg, rnd-sub rnd, sft, md
cal, carb incl, fri, nsf, mod str wht cut. SH 5%;
gy-dkgy, sply-sbblky, slty, grty, sft, v cal.

SS 95%:
cal, carb
gy-dkgy,

7330

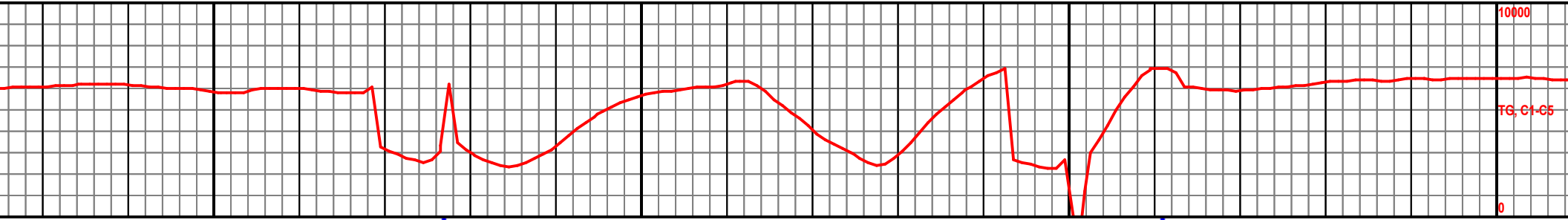
MW: 9.3/ VIS: 43

MW: 9.3/ VIS: 43



MW: 9.3/ VIS: 43

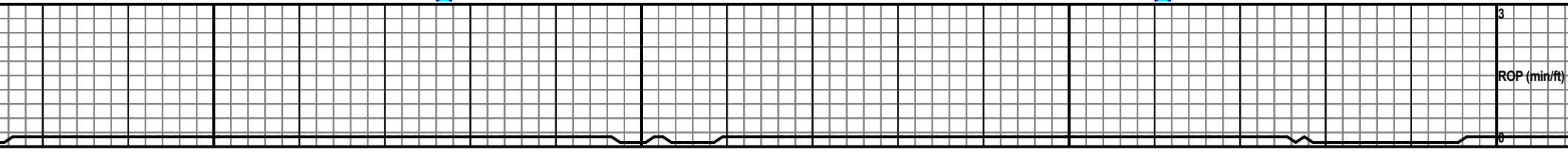
MW: 9.3/ VIS: 43



10000

TG, C1-C5

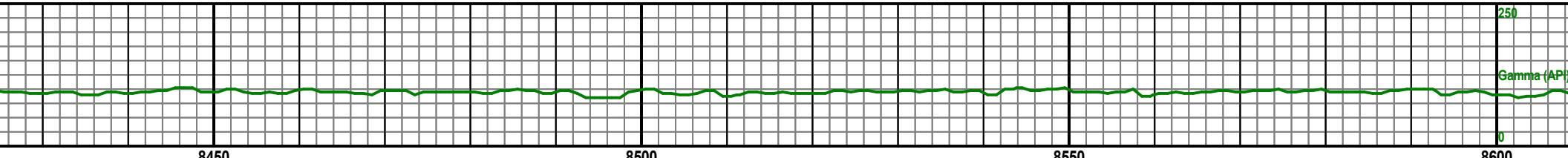
0



3

RGP (min/ft)

0



250

Gamma (API)

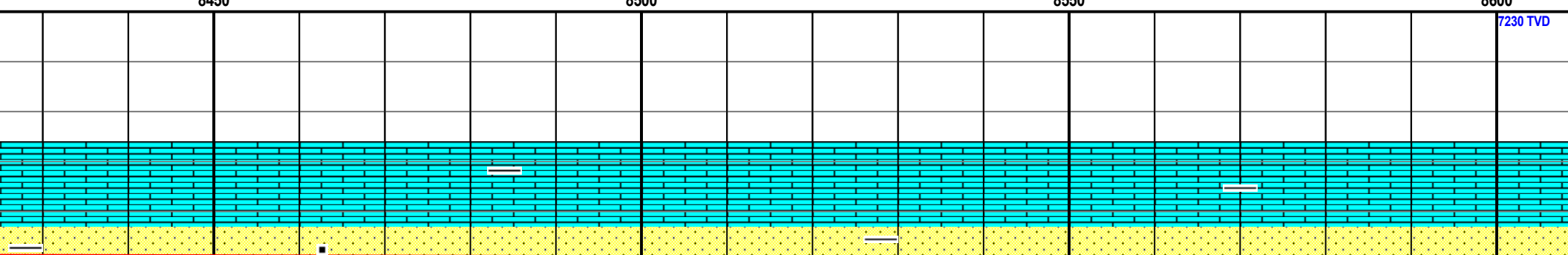
0

8450

8500

8550

8600



7230 TVD

MD 8577 TVD 7279.3
INC 89.78 AZ 88.36

7330

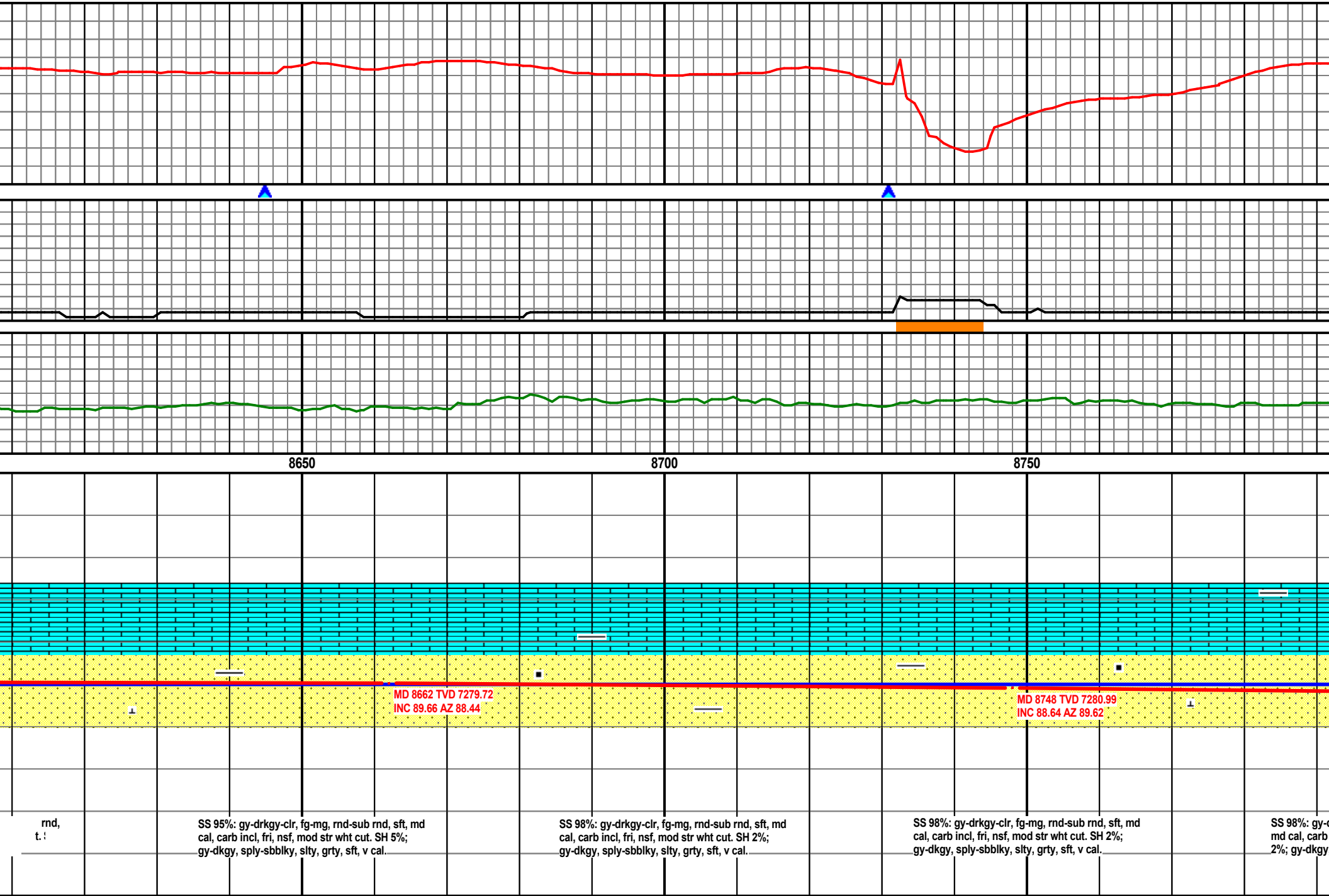
SS 95%: gy-drkgy-clr, fg-mg, rnd-sub rnd, sft, md
cal, carb incl, fri, nsf, mod str wht cut. SH 5%;
gy-dkgy, sply-sbblky, slty, grty, sft, v cal.

SS 95%: gy-drkgy-clr, fg-mg, rnd-sub rnd, sft, md
cal, carb incl, fri, nsf, mod str wht cut. SH 5%;
gy-dkgy, sply-sbblky, slty, grty, sft, v cal.

SS 95%: gy-drkgy-clr, fg-mg, rnd-sub rnd, sft, md
cal, carb incl, fri, nsf, mod str wht cut. SH 5%;
gy-dkgy, sply-sbblky, slty, grty, sft, v cal.

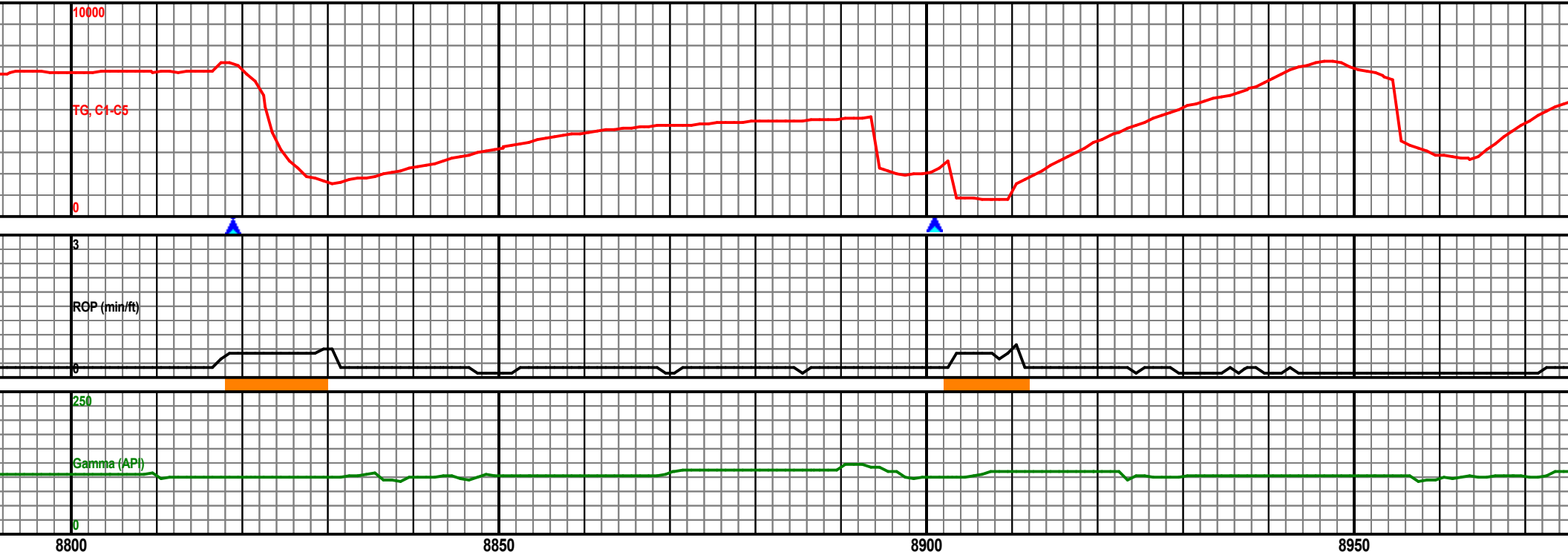
SS 95%: gy-drkgy-clr, fg-mg, rnd-sub rnd, sft, md
cal, carb incl, fri, nsf, mod str wht cut. SH 5%;
gy-dkgy, sply-sbblky, slty, grty, sft, v cal.

7330

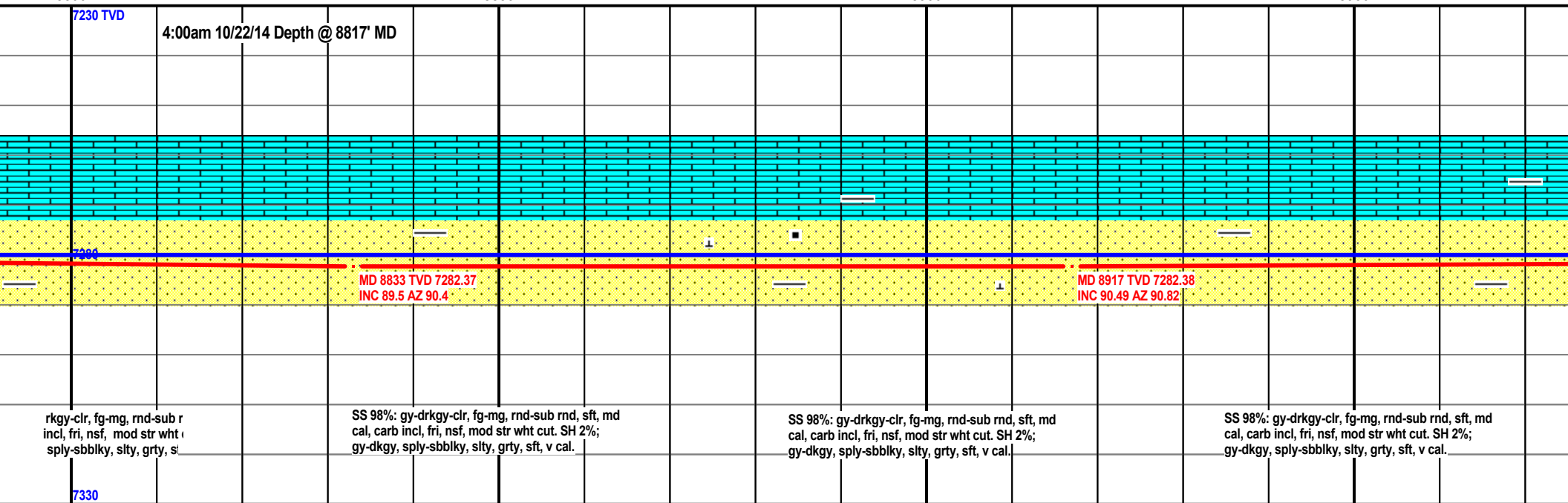


MW: 9.3/ VIS: 44

MW: 9.3/ VIS: 45

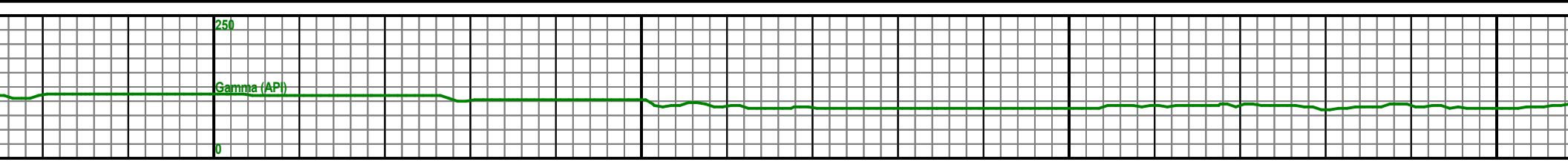
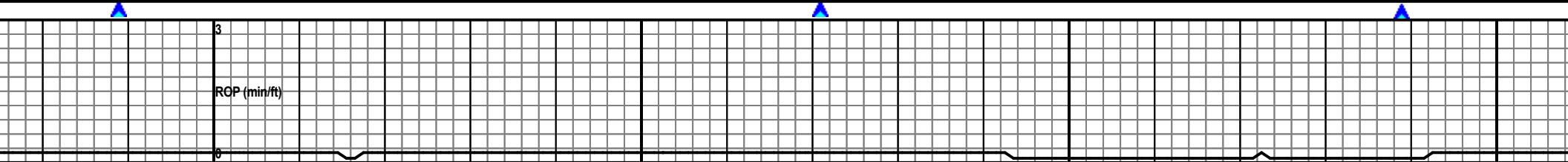
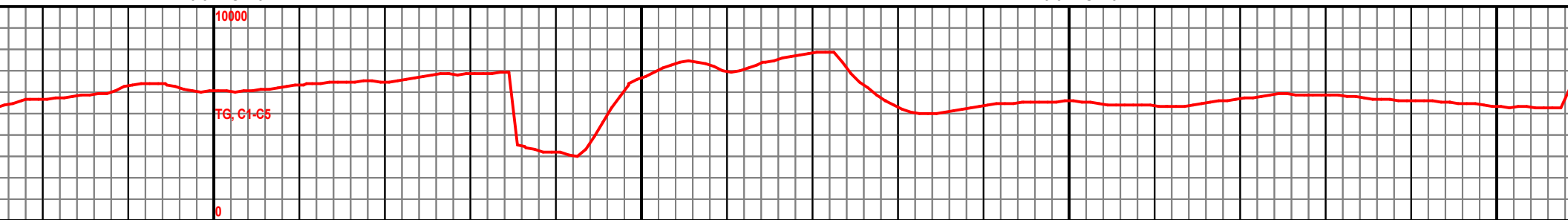


4:00am 10/22/14 Depth @ 8817' MD



MW: 9.3/ VIS: 45

MW: 9.3/ VIS: 45



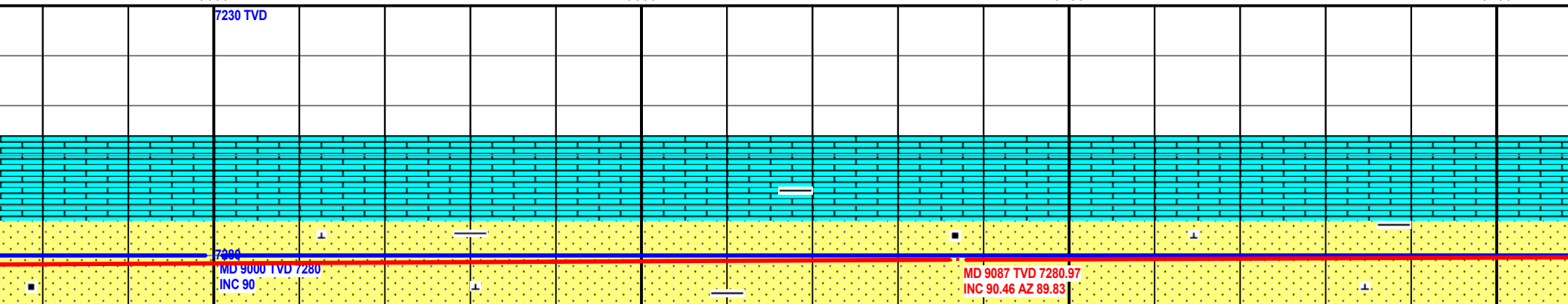
9000

9050

9100

9150

7230 TVD



SS 98%: gy-drkgy-clr, fg-mg, rnd-sub rnd, sft, md cal, carb incl, fri, nsf, mod str wht cut. SH 2%; gy-dkgy, sply-sbblky, slty, grty, sft, v cal.

SS 98%: gy-drkgy-clr, fg-mg, rnd-sub rnd, sft, md cal, carb incl, fri, nsf, mod str wht cut. SH 2%; gy-dkgy, sply-sbblky, slty, grty, sft, v cal.

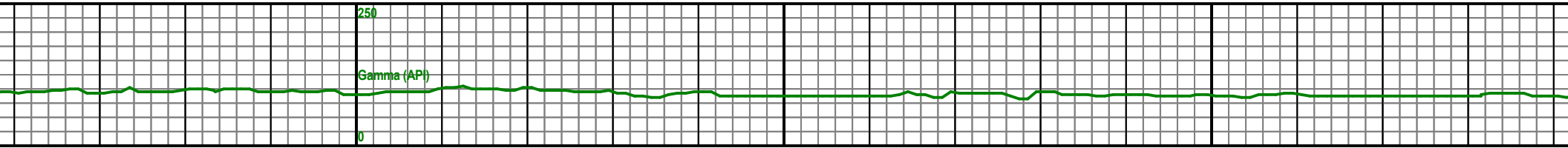
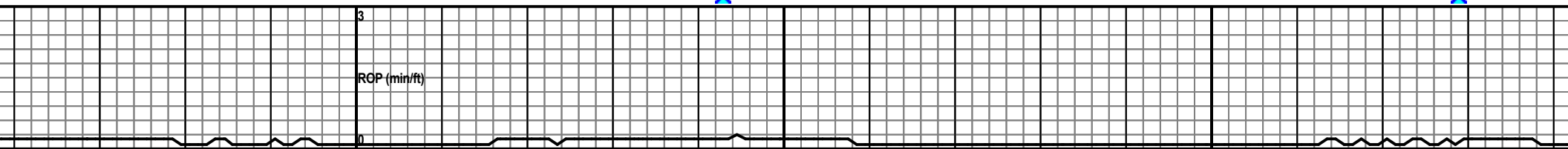
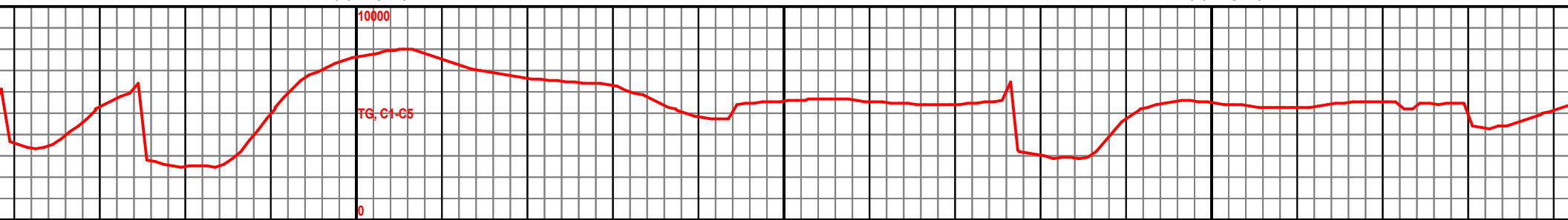
SS 98%: gy-drkgy-clr, fg-mg, rnd-sub rnd, sft, md cal, carb incl, fri, nsf, mod str wht cut. SH 2%; gy-dkgy, sply-sbblky, slty, grty, sft, v cal.

SS 98%: gy-drkgy-clr, fg-mg, rnd-sub rnd, sft, md cal, carb incl, fri, nsf, mod str wht cut. SH 2%; gy-dkgy, sply-sbblky, slty, grty, sft, v cal.

7330

MW: 9.3/ VIS: 45

MW: 9.3/ VIS: 45

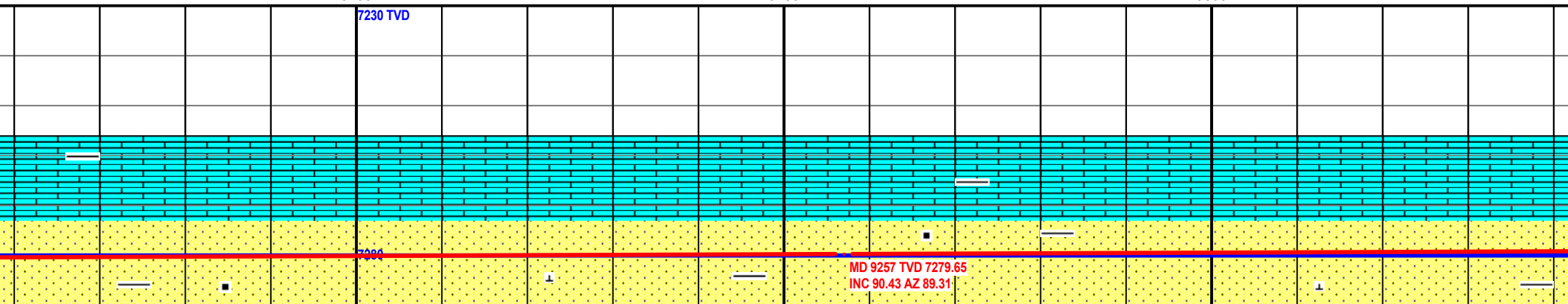


9200

9250

9300

7230 TVD



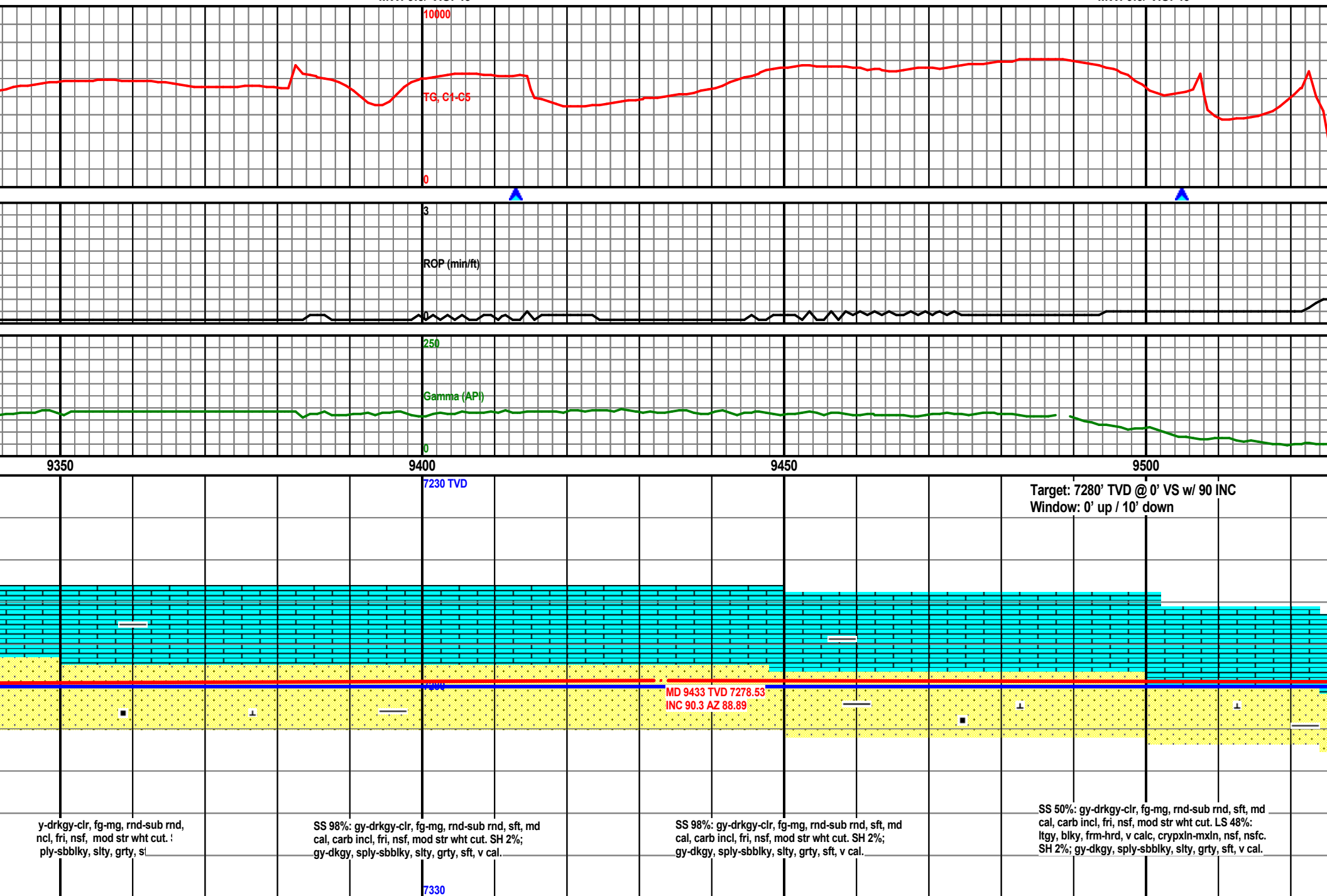
7230

MD 9257 TVD 7279.65
INC 90.43 AZ 89.31rnd,
t.:SS 98%: gy-drkgy-clr, fg-mg, rnd-sub rnd, sft, md
cal, carb incl, fri, nsf, mod str wht cut. SH 2%;
gy-dkgy, sply-sbblky, slty, grty, sft, v cal.SS 98%: gy-drkgy-clr, fg-mg, rnd-sub rnd, sft, md
cal, carb incl, fri, nsf, mod str wht cut. SH 2%;
gy-dkgy, sply-sbblky, slty, grty, sft, v cal.SS 98%: gy-drkgy-clr, fg-mg, rnd-sub rnd, sft, md
cal, carb incl, fri, nsf, mod str wht cut. SH 2%;
gy-dkgy, sply-sbblky, slty, grty, sft, v cal.SS 98%:
cal, carb
gy-dkgy,

7330

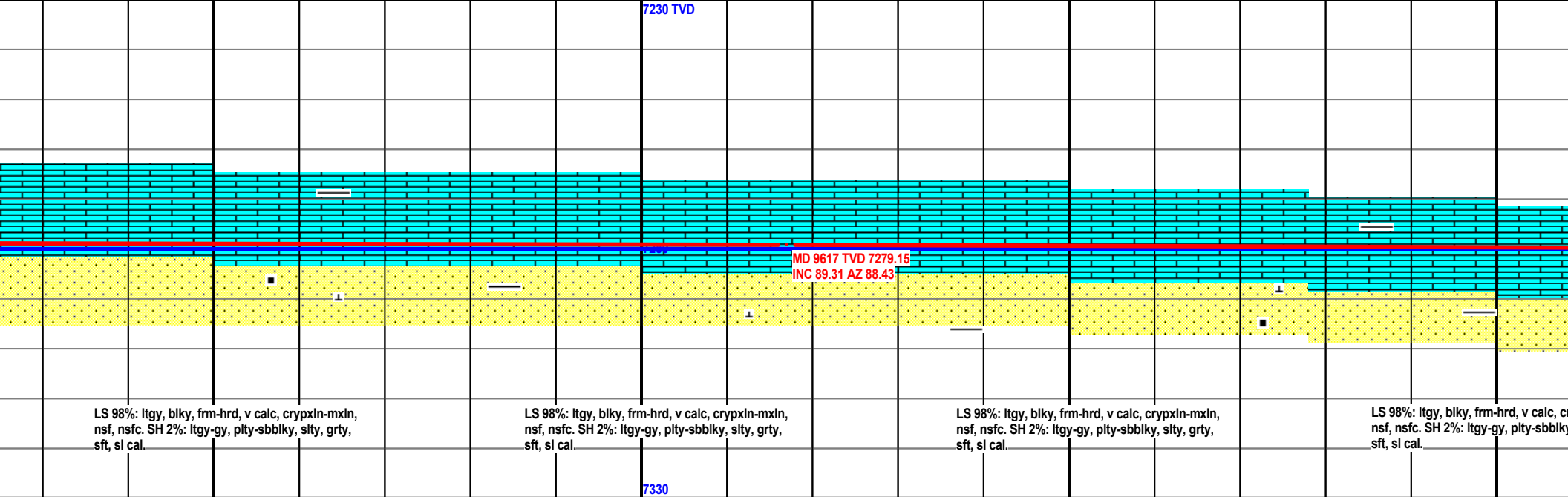
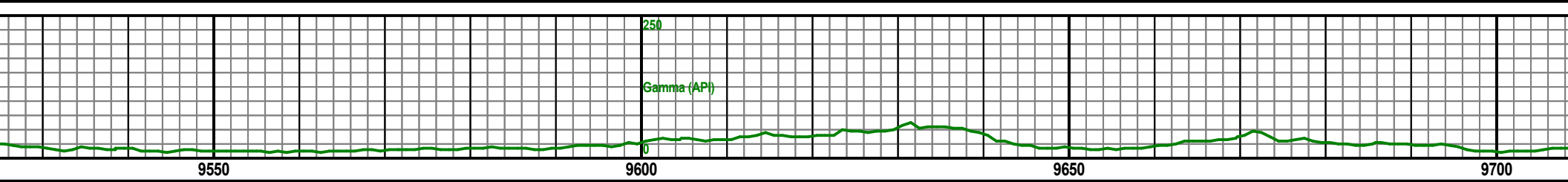
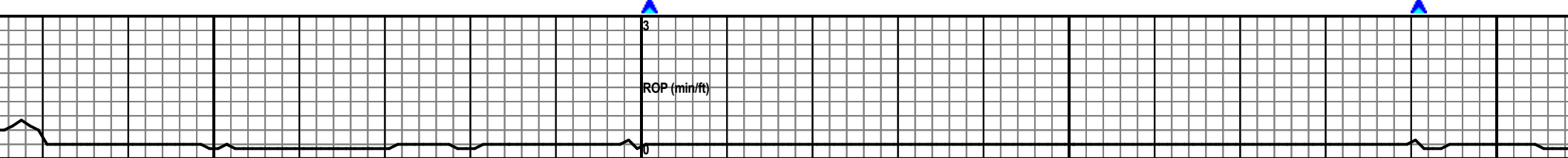
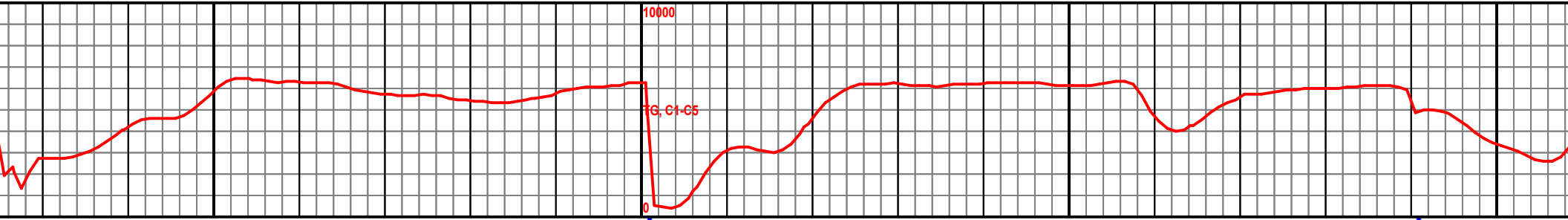
MW: 9.3/ VIS: 45

MW: 9.3/ VIS: 45

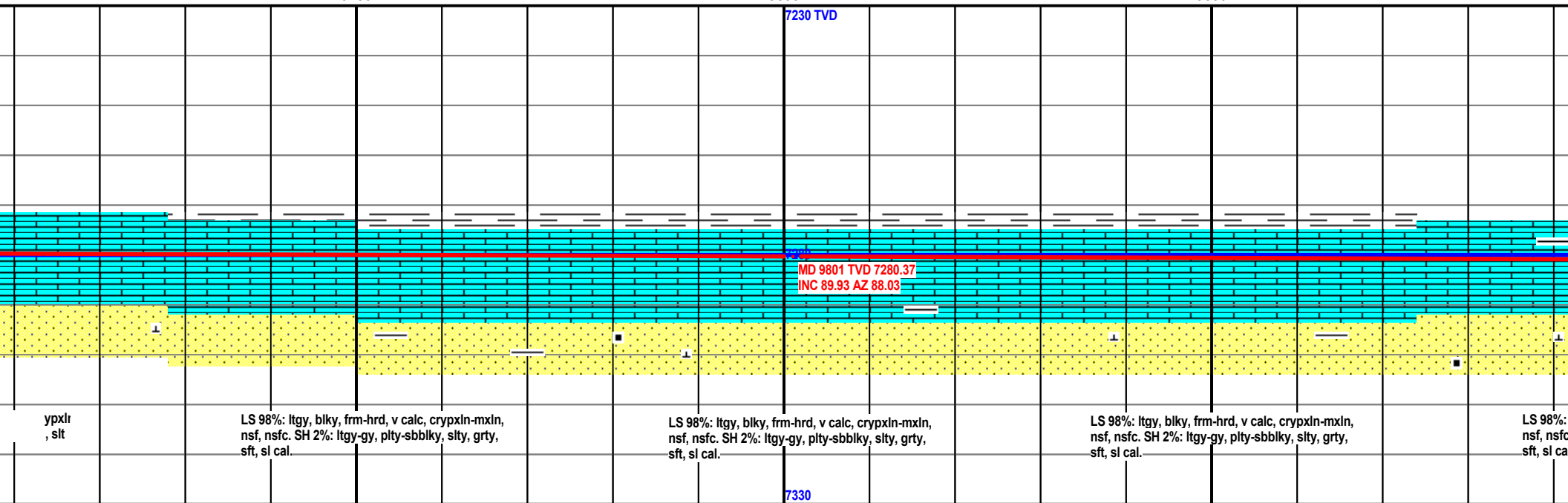
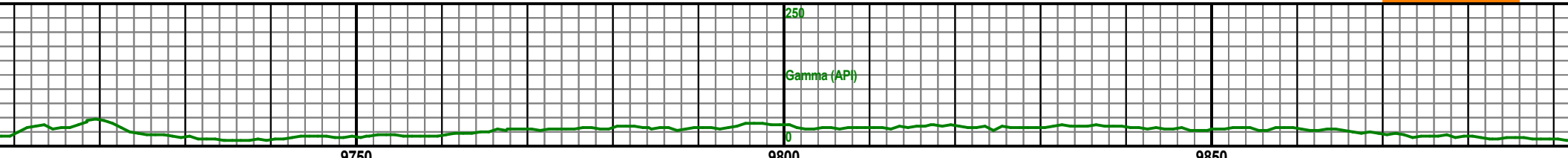
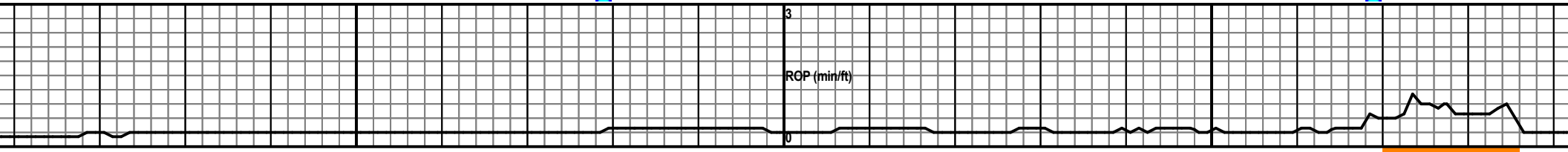
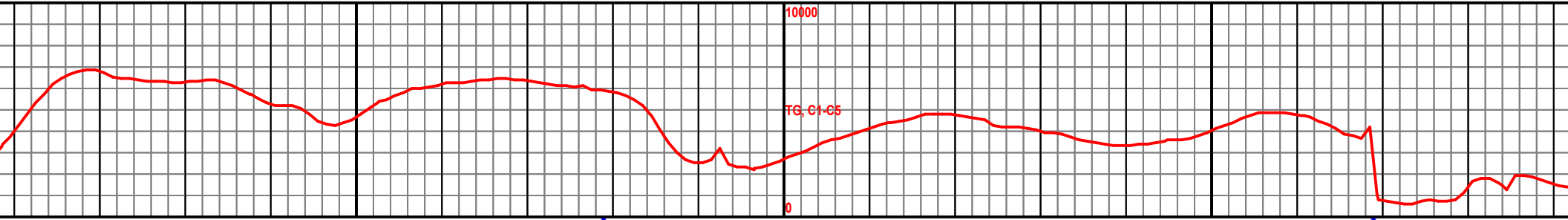


MW: 9.3/ VIS: 45

MW: 9.3/ VIS: 45

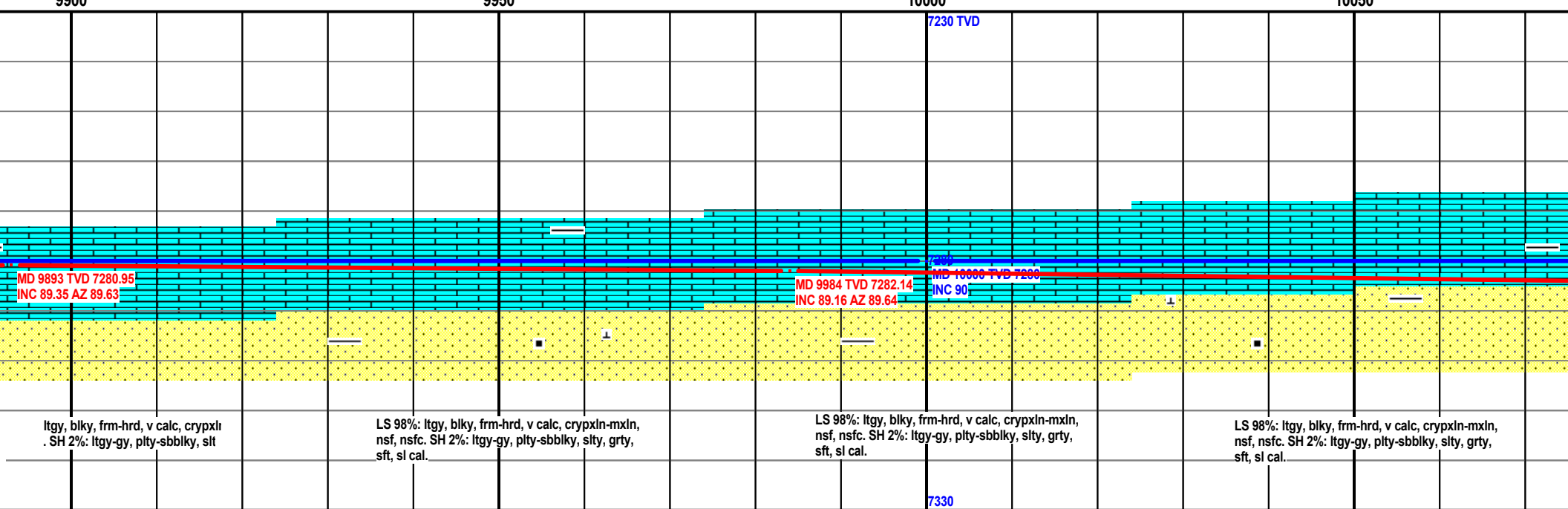
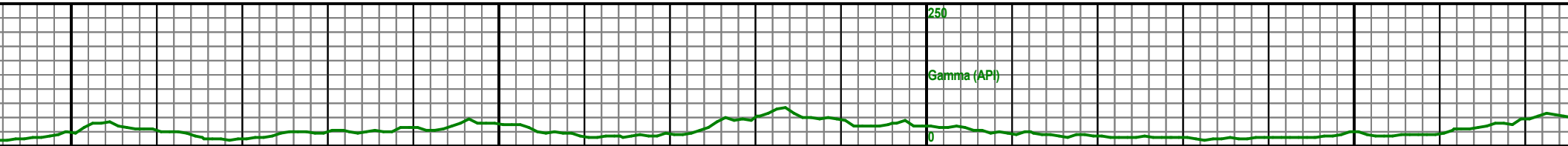
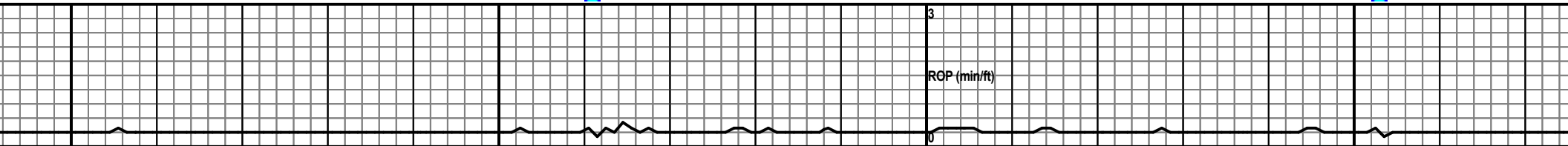
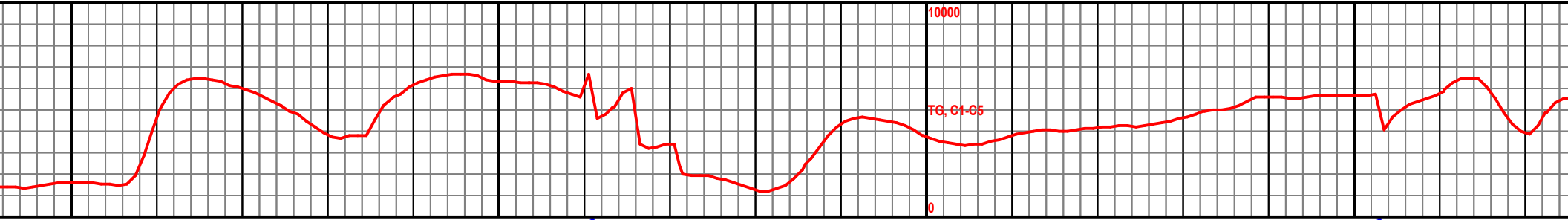


MW: 9.3/ VIS: 45



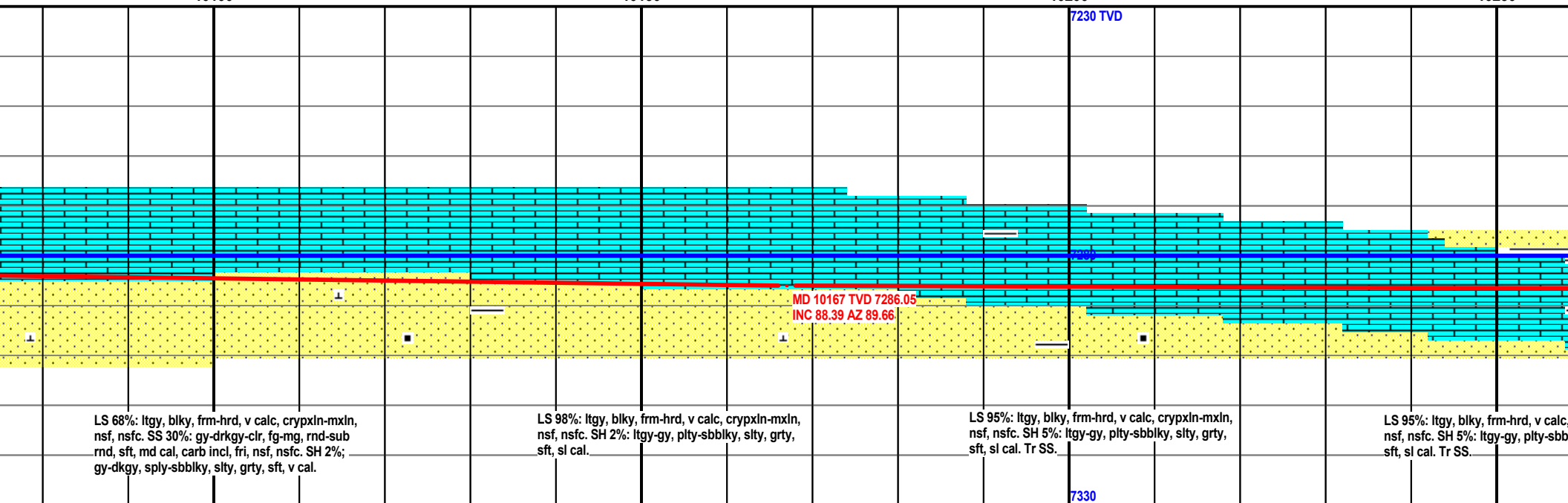
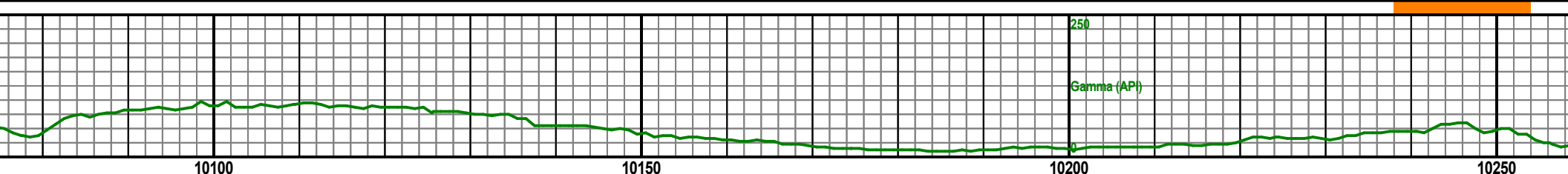
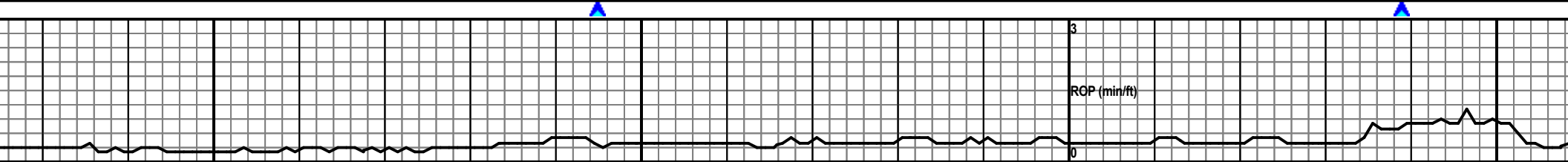
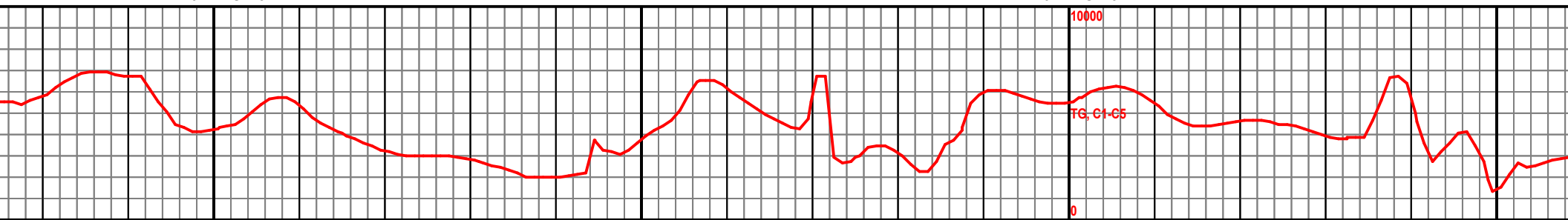
MW: 9.3/ VIS: 46

MW: 9.4/ VIS: 45



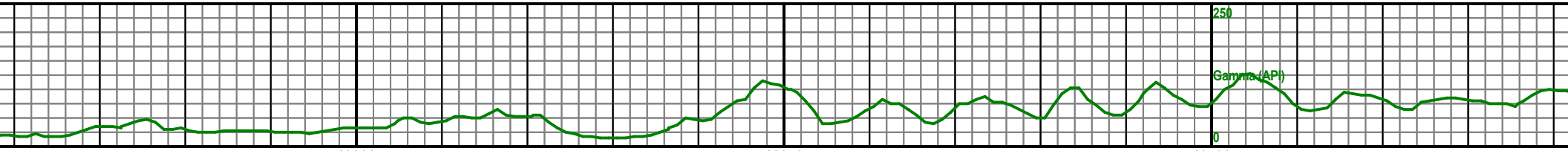
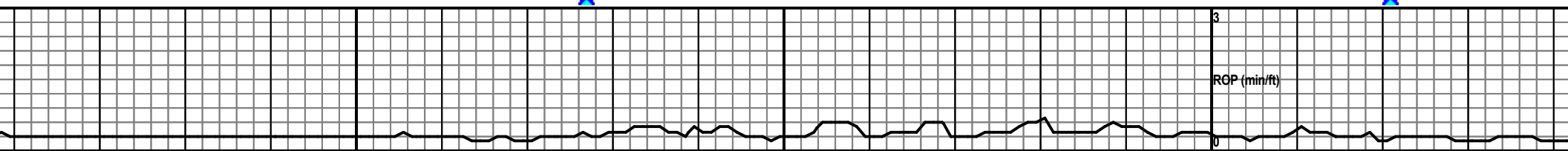
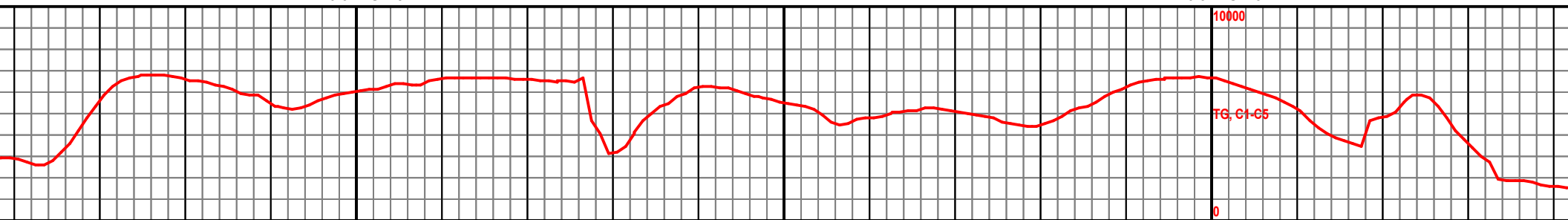
MW: 9.4/ VIS: 45

MW: 9.4/ VIS: 45



MW: 9.3/ VIS: 48

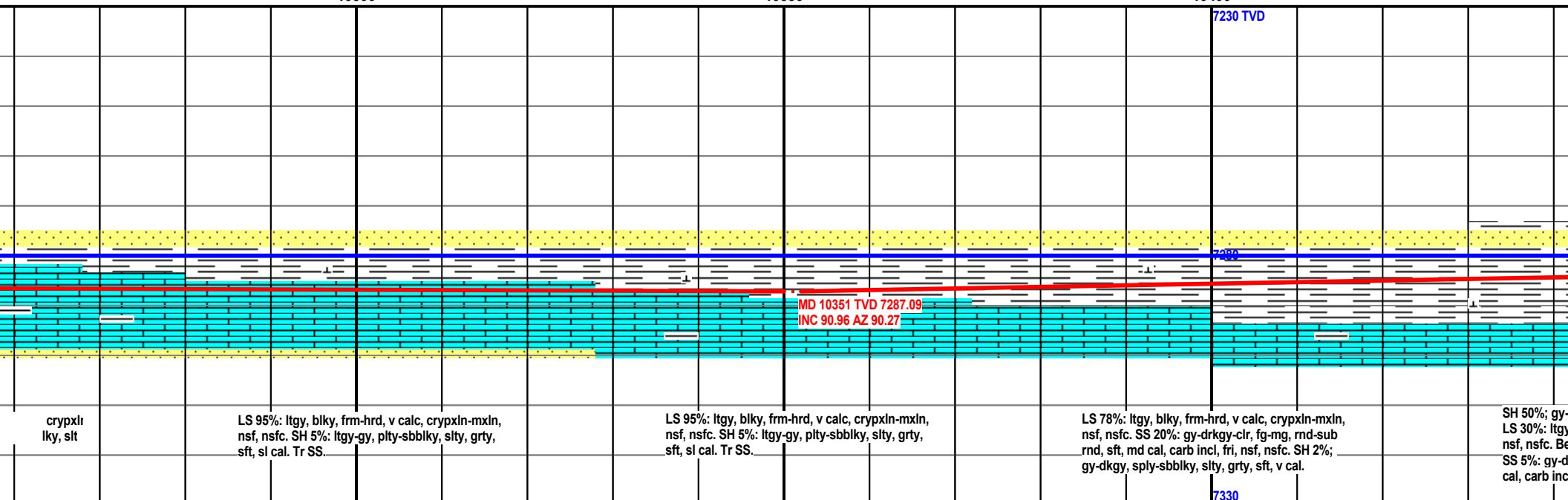
MW: 9.3/ VIS: 45



10300

10350

10400



MW: 9.3/ VIS: 45

MW: 9.3/ VIS: 45

10000

1-5FT Flare

TG, C1-C5

0

3

RGP (min/ft)

0

250

Gamma (API)

0

10450

10500

10550

10600

7230 TVD

MD 10443 TVD 7284.37
INC 92.43 AZ 90.6

MD 10535 TVD 7280.6
INC 92.27 AZ 89.82

dkgy, sply-sbbiky, slty, grty, s
, biky, frm-hrd, v calc, crypxl
nt 15% crm-ltgy, vfg, v sl cal.
rkgy-clr, fg-mg, rnd-sub rnd,
l, fri, nsf, v slw str \

SH 50%; gy-dkgy, sply-sbbiky, slty, grty, sft, v cal.
LS 30%; ltgy, biky, frm-hrd, v calc, crypxln-mxin,
nsf, nsfc. Bent 15% crm-ltgy, vfg, v sl cal. org fl.
SS 5%; gy-drkgy-clr, fg-mg, rnd-sub rnd, sft, md
cal, carb incl, fri, nsf, v slw str wht cut.

SH 70%; gy-dkgy, sply-sbbiky, slty, grty, sft, v cal.
LS 20%; ltgy, biky, frm-hrd, v calc, crypxln-mxin,
nsf, nsfc. Bent 8% crm-ltgy, vfg, v sl cal. org fl.
SS 2%; gy-drkgy-clr, fg-mg, rnd-sub rnd, sft, md
cal, carb incl, fri, nsf, v slw str wht cut.

SH 70%; gy-dkgy, sply-sbbiky, slty, grty, sft, v cal.
LS 20%; ltgy, biky, frm-hrd, v calc, crypxln-mxin,
nsf, nsfc. Bent 8% crm-ltgy, vfg, v sl cal. org fl.
SS 2%; gy-drkgy-clr, fg-mg, rnd-sub rnd, sft, md
cal, carb incl, fri, nsf, v slw str wht cut.

7330

MW: 9.4/ VIS: 45

MW: 9.3/ VIS: 44

5-10FT Flare

10000

TG, C1-C5

0

3

RGP (min/ft)

0

250

Gamma (API)

0

10650

10700

10750

10800

7230 TVD

MD 10627 TVD 7277.96
INC 91.01 AZ 88.66MD 10719 TVD 7277.15
INC 90 AZ 89.13

7286

SH 70%; gy-dkgy, sply-sbbilky, slty, grty, sft, v cal. LS 18%:
ltgy, blk, frm-hrd, v calc, crypxln-mxln, nsf, nsfc. Chalky
Mrlst 5%: gy-dkgy, v calc, tr intbd biocl, frm, sbply, no sfl,
v swl str wh cut. Bent 5% crm-ltgy, vfg, v sl cal. org fl. SS
2%: gy-drkgy-clr, fg-mg, rnd-sub rnd, sft, md cal, carb incl,
fri, nsf, v slw str wht cut.

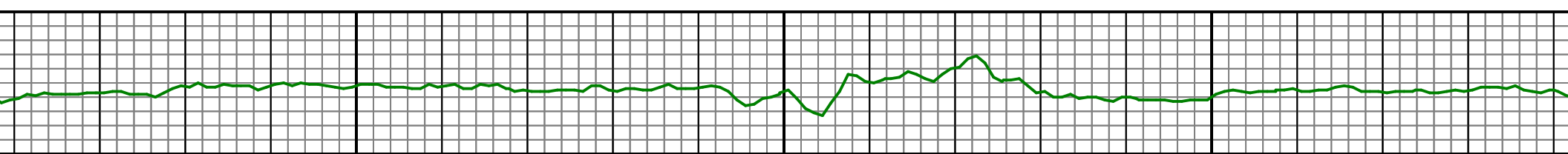
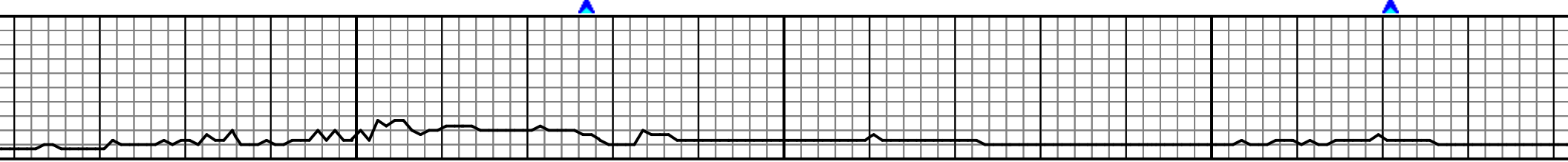
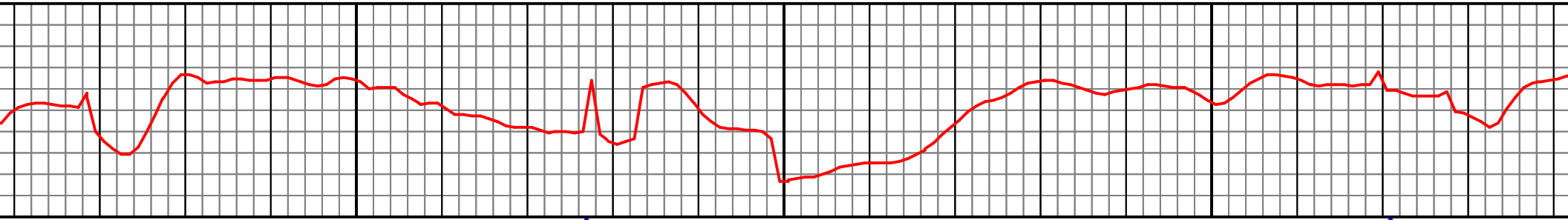
SH 70%; gy-dkgy, sply-sbbilky, slty, grty, sft, v cal. LS 18%:
ltgy, blk, frm-hrd, v calc, crypxln-mxln, nsf, nsfc. Chalky
Mrlst 5%: gy-dkgy, v calc, tr intbd biocl, frm, sbply, no sfl,
v swl str wh cut. Bent 5% crm-ltgy, vfg, v sl cal. org fl. SS
2%: gy-drkgy-clr, fg-mg, rnd-sub rnd, sft, md cal, carb incl,
fri, nsf, v slw str wht cut.

SS 85%: drkgy-brn-clr, vfg-fg, rnd-sub rnd, sft, v sl
cal, carb incl, fri, nsf, mod str wht cut. SH 13%:
dkgy-blk, sply-sbbilky, slty, grty, sft, v cal. LS 1%: ltgy,
blk, frm-hrd, v calc, crypxln-mxln, nsf, nsfc. Bent 5%
crm-ltgy, vfg, v sl cal. org fl. Tr Mrlst.

SS 85%: drkgy-brn-clr, vfg-fg, rnd-sub
cal, carb incl, fri, nsf, mod str wht cut. SH 13%:
dkgy-blk, sply-sbbilky, slty, grty, sft, v cal. LS 1%: ltgy,
blk, frm-hrd, v calc, crypxln-mxln, nsf, nsfc. Bent 5%
crm-ltgy, vfg, v sl cal. org fl.

7330

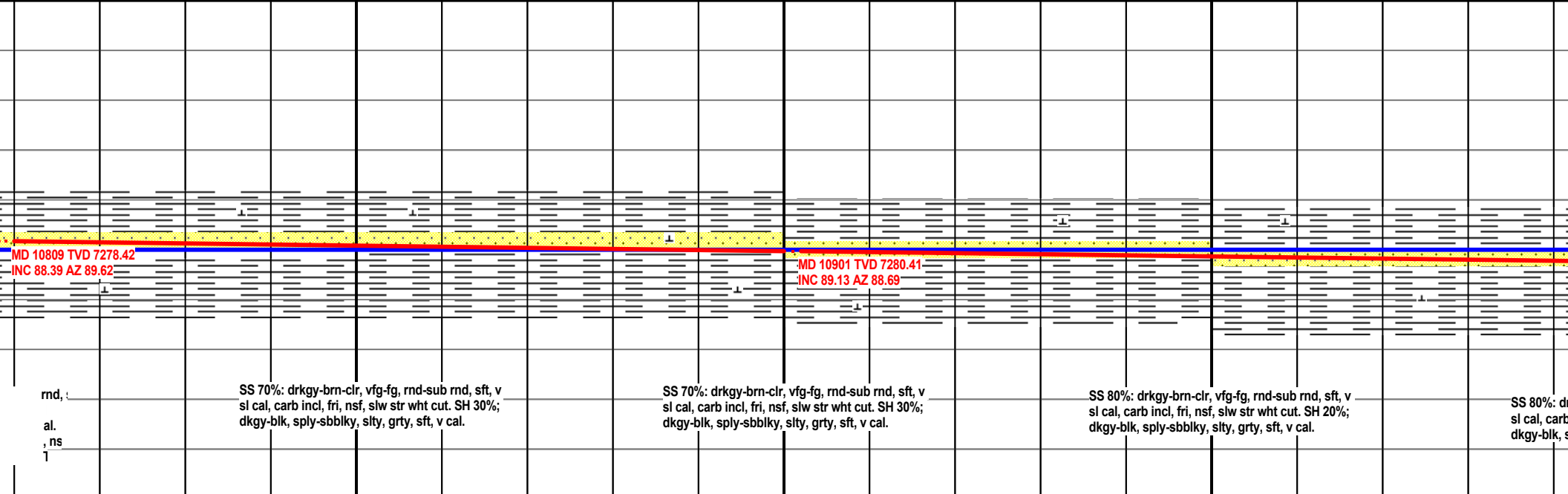
MW: 9.3/ VIS: 44



10850

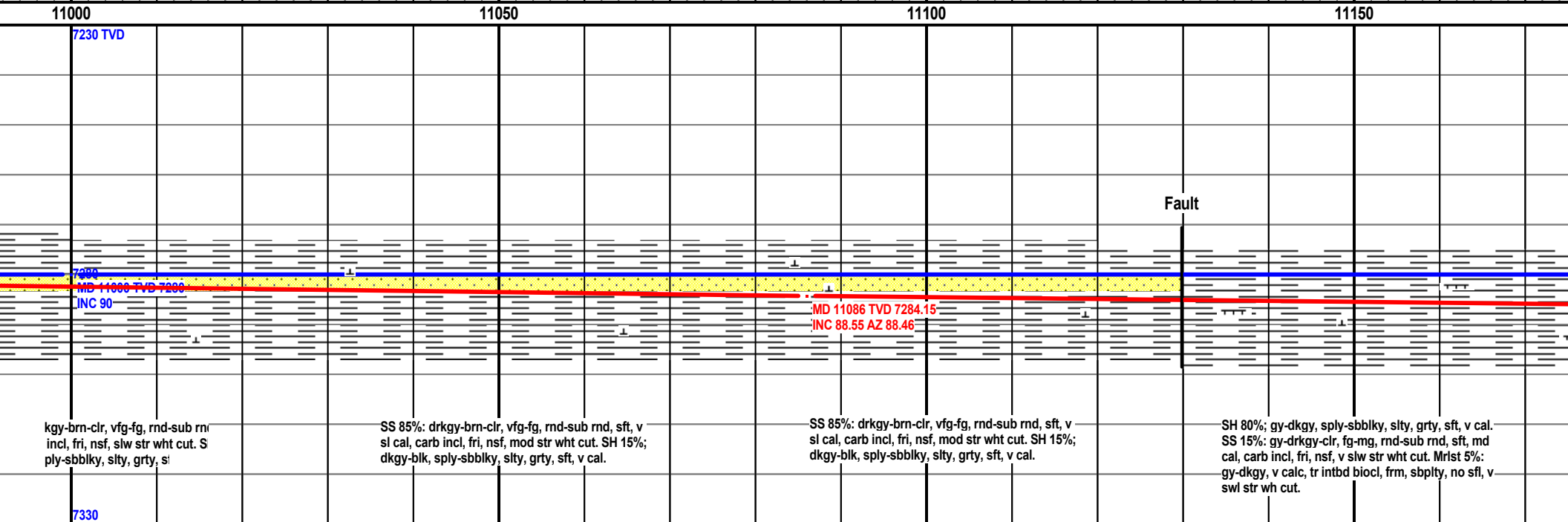
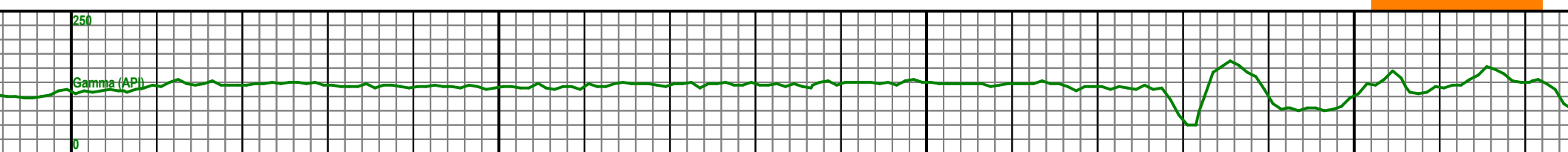
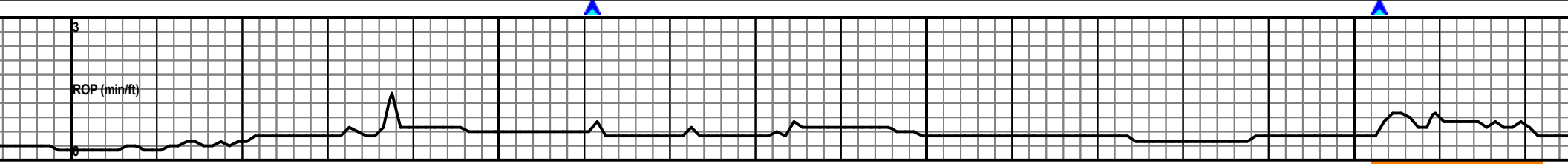
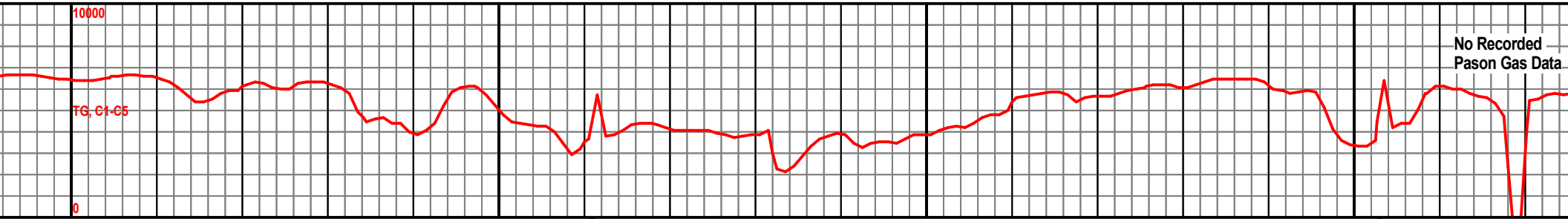
10900

10950



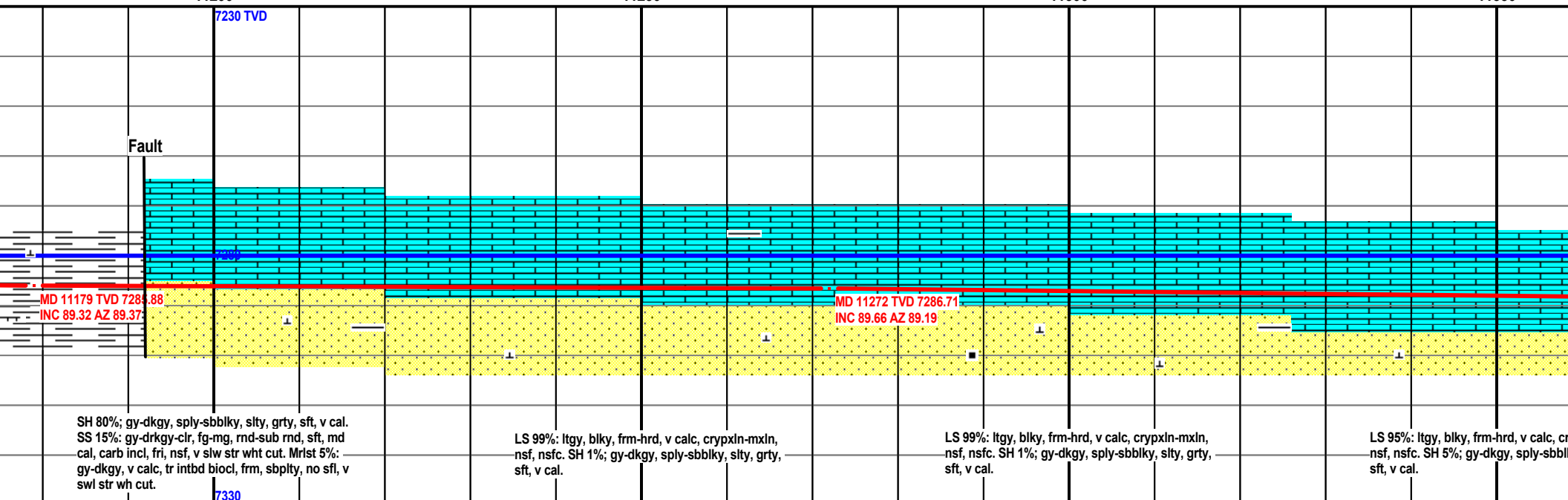
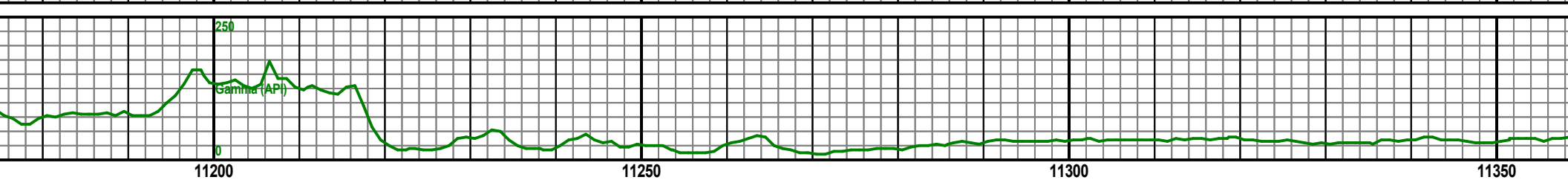
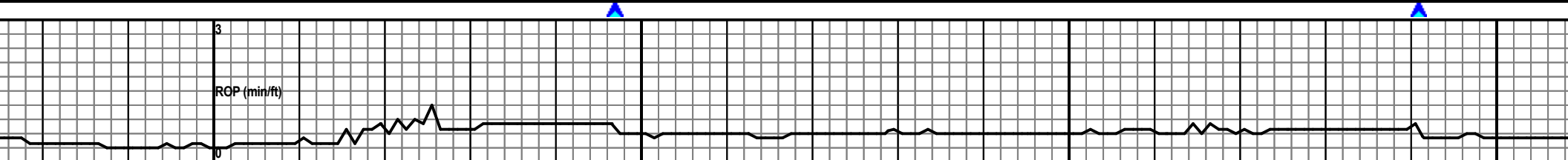
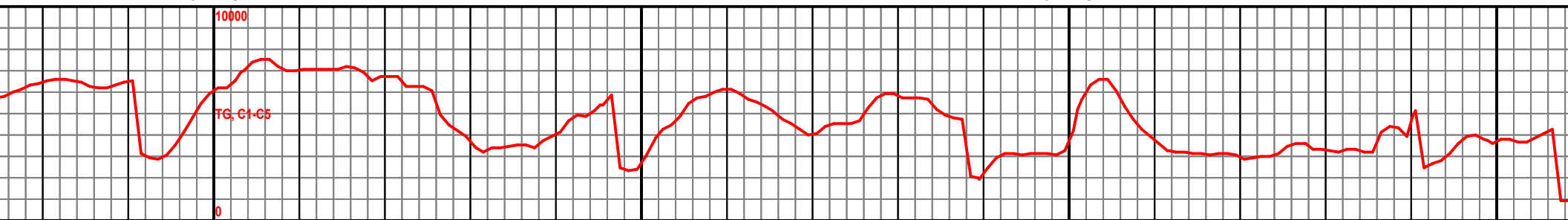
MW: 9.3/ VIS: 44

MW: 9.3/ VIS: 44



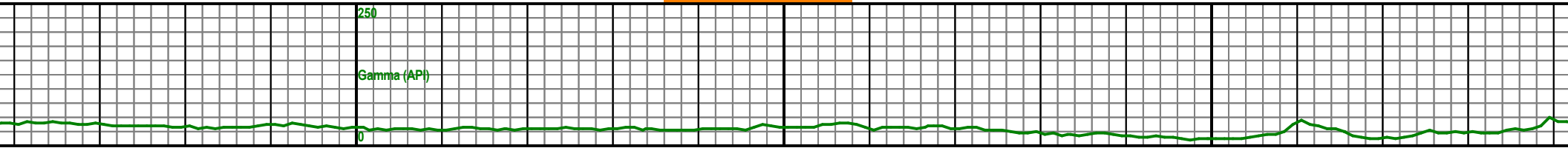
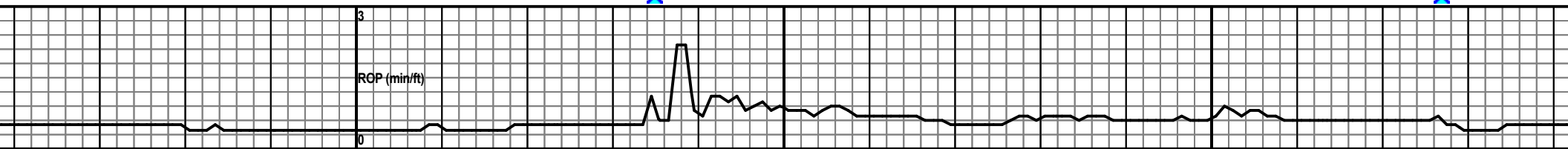
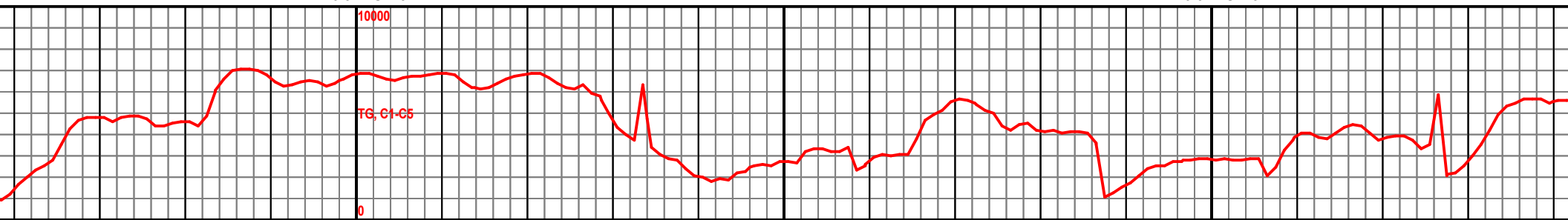
MW: 9.4/ VIS: 47

MW: 9.4/ VIS: 47



MW: 9.3/ VIS: 45

MW: 9.3/ VIS: 45



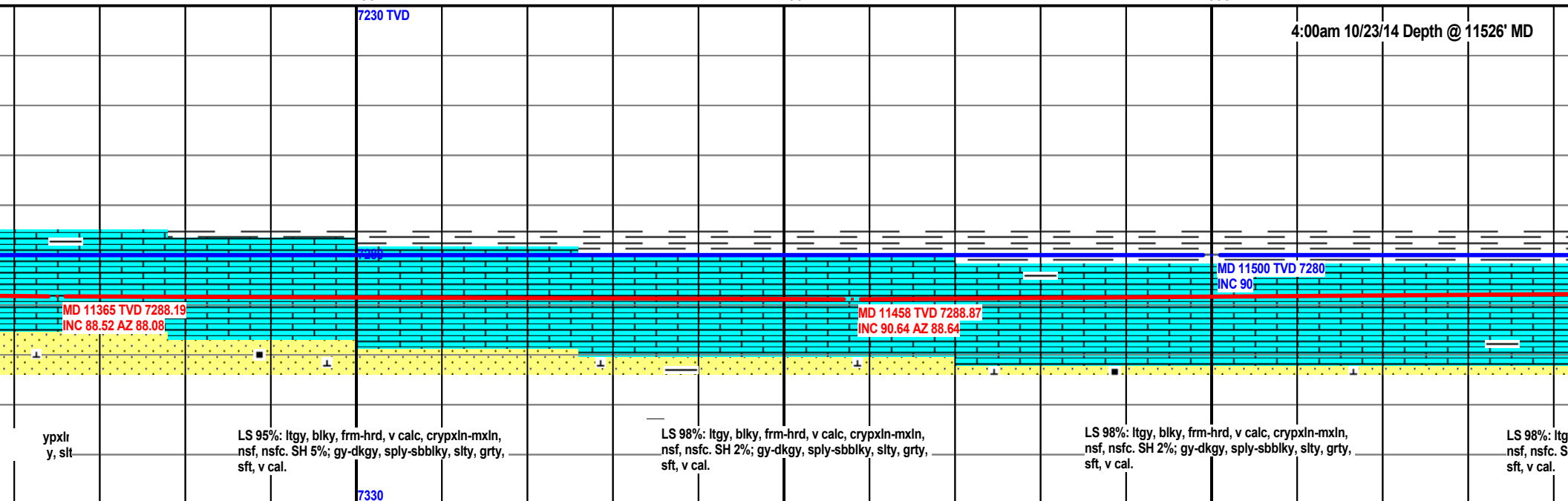
11400

11450

11500

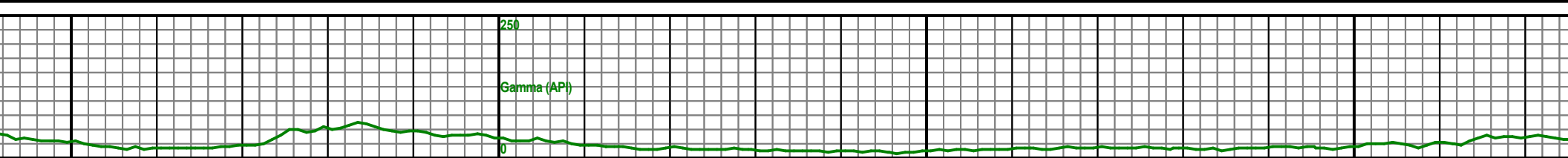
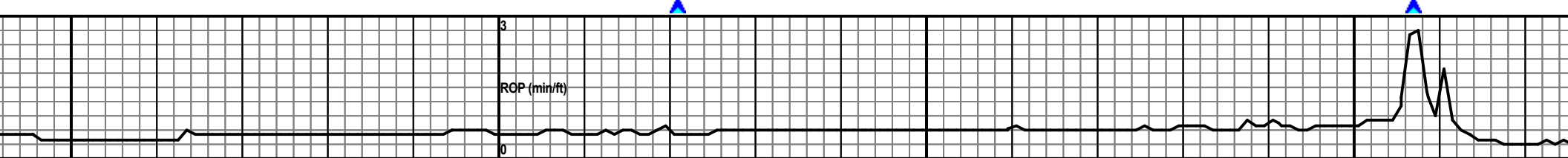
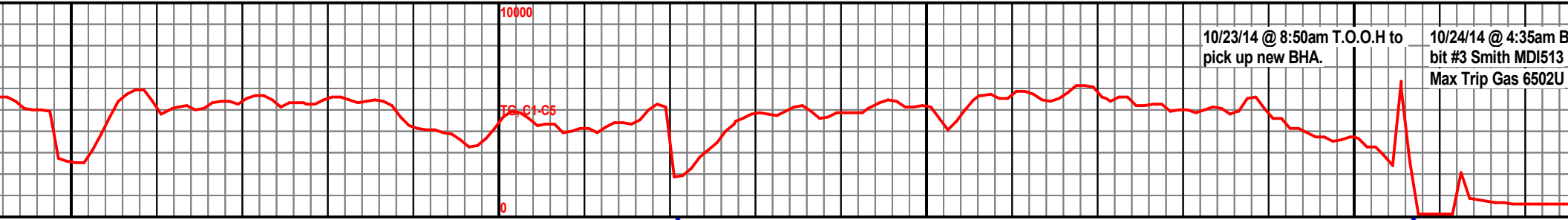
7230 TVD

4:00am 10/23/14 Depth @ 11526' MD



MW: 9.4/ VIS: 47

MW: 9.4/ VIS: 47



11550

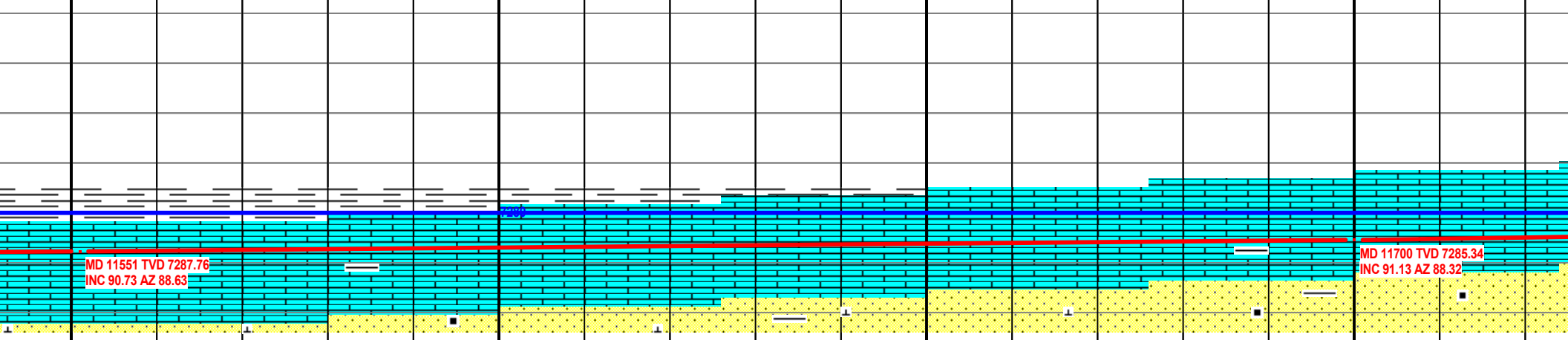
11600

11650

11700

7230 TVD

4:00am 10/24/14 Depth @ 11712' MD



y, blk, frm-hrd, v calc, crypxl
2%; gy-dkgy, sply-sbbkly, slt

LS 98%: ltgy, blk, frm-hrd, v calc, crypxl-mxln,
nsf, nsfc. SH 2%; gy-dkgy, sply-sbbkly, slty, grty,
sft, v cal.

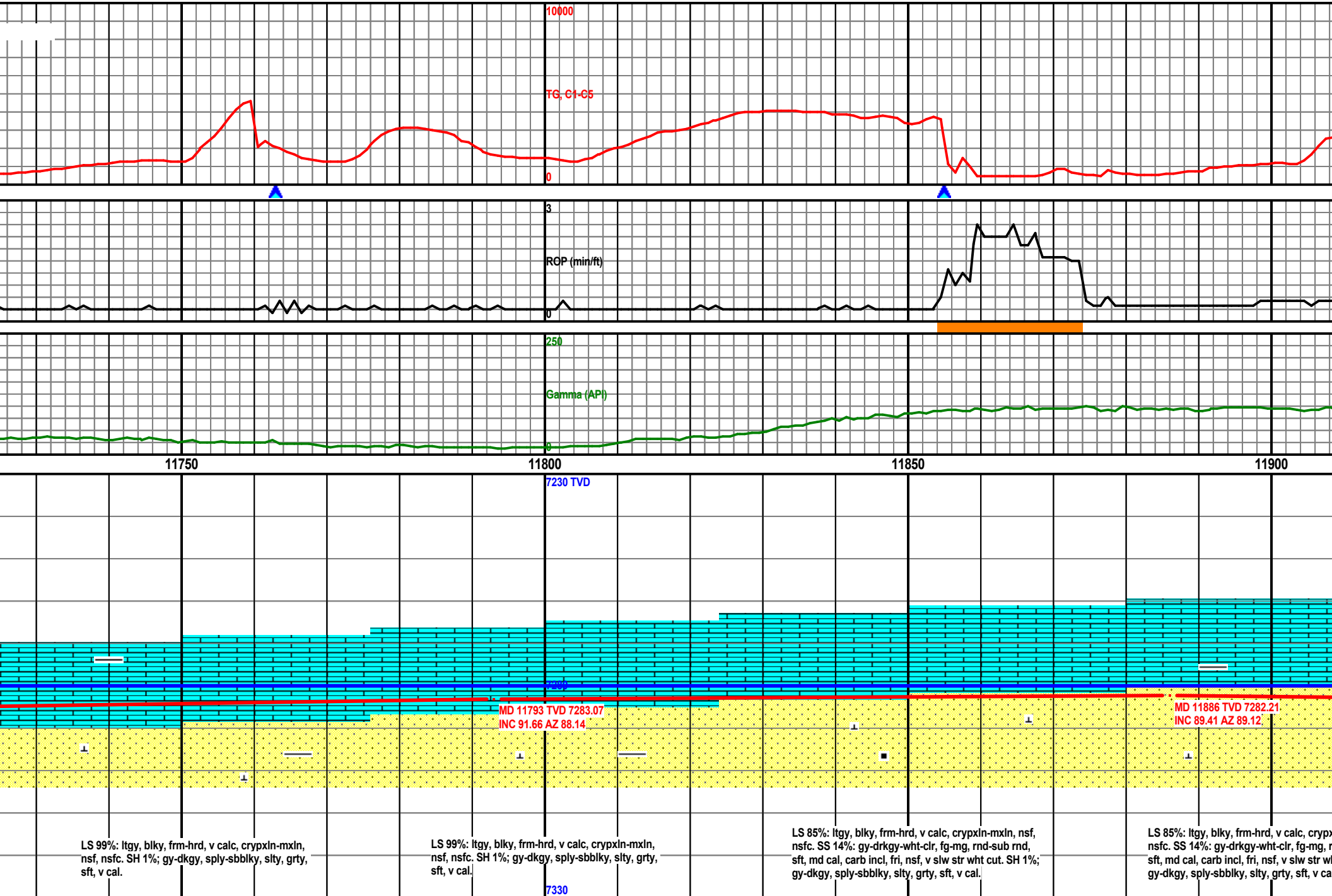
LS 99%: ltgy, blk, frm-hrd, v calc, crypxl-mxln,
nsf, nsfc. SH 1%; gy-dkgy, sply-sbbkly, slty, grty,
sft, v cal.

LS 99%: ltgy, blk, frm-hrd, v calc, crypxl-mxln,
nsf, nsfc. SH 1%; gy-dkgy, sply-sbbkly, slty, grty,
sft, v cal.

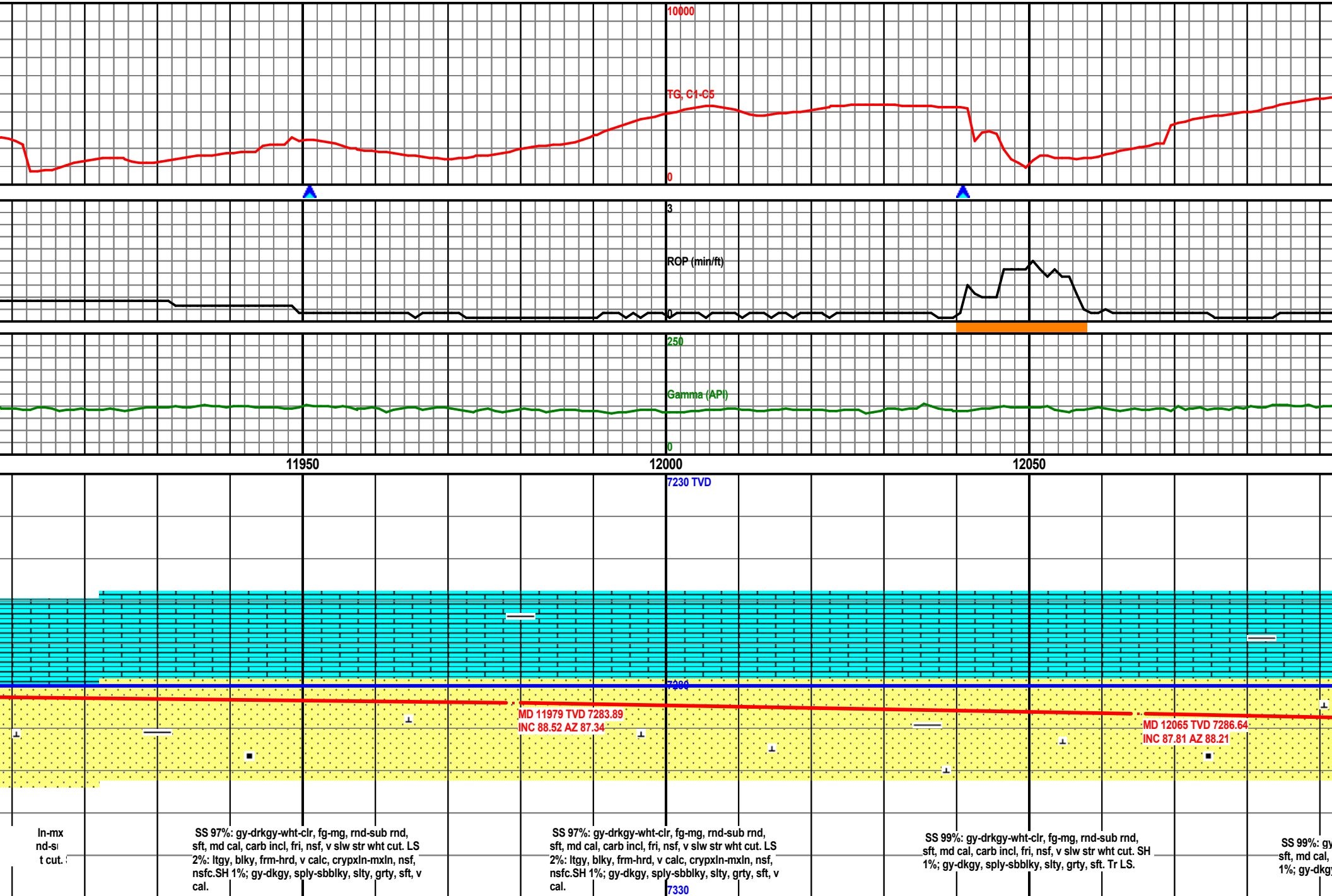
7330

MW: 9.2/ VIS: 43

MW: 9.2/ VIS: 43

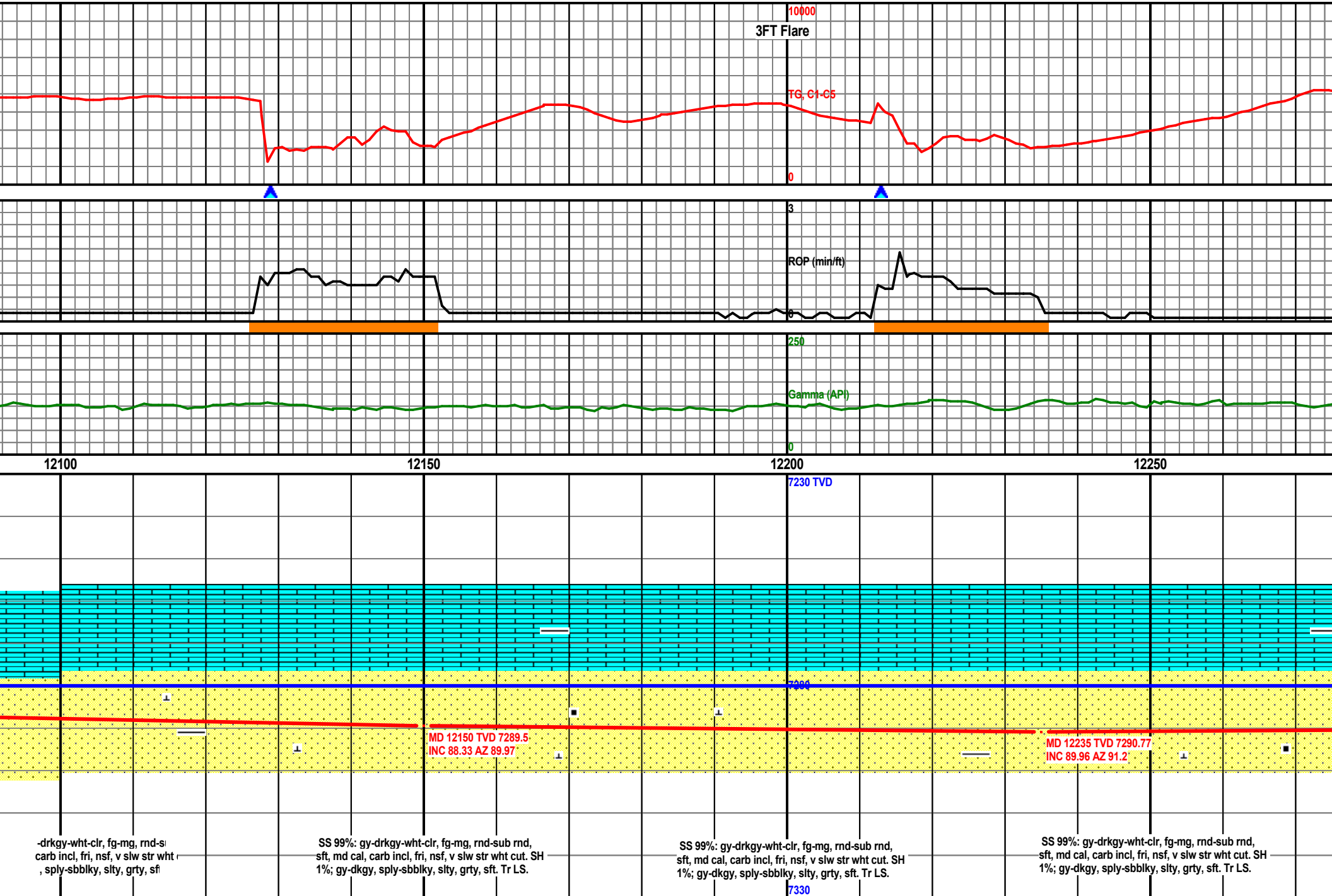


MW: 9.2/ VIS: 42



MW: 9.2/ VIS: 42

MW: 9.2/ VIS: 42



MW: 9.2/ VIS: 42

MW: 9.2/ VIS: 45

3-5FT Flare

5FT Flare

10000

IG C1-C5

0

3

RGP (min/ft)

0

250

Gamma (API)

0

12300

12350

12400

12450

7230 TVD

7280

MD 12320 TVD 7290.05
INC 91.01 AZ 90.39

MD 12405 TVD 7288.23
INC 91.44 AZ 90.32

SS 99%: gy-drkgy-wht-clr, fg-mg, rnd-sub rnd,
sft, md cal, carb incl, fri, nsf, v slw str wht cut. SH
1%; gy-dkgy, sply-sbbiky, slty, grty, sft. Tr LS.

SS 99%: gy-drkgy-wht-clr, fg-mg, rnd-sub rnd,
sft, md cal, carb incl, fri, nsf, v slw str wht cut. SH
1%; gy-dkgy, sply-sbbiky, slty, grty, sft.

SS 99%: gy-drkgy-wht-clr, fg-mg, rnd-sub rnd,
sft, md cal, carb incl, fri, nsf, v slw str wht cut. SH
1%; gy-dkgy, sply-sbbiky, slty, grty, sft.

SS 99%: gy-drkgy-wht-clr, fg-mg, rnd-sub rnd,
sft, md cal, carb incl, fri, nsf, v slw str wht cut. SH
1%; gy-dkgy, sply-sbbiky, slty, grty, sft.

7330

MW: 9.2/ VIS: 46

5-10FT Flare

MW: 9.2/ VIS: 46

1-3FT Flare

10000

TG, C1-C5

0

3

RGP (min/ft)

0

250

Gamma (API)

0

12500

12550

12600

7230 TVD

Fault

MD 12500 TVD 7280

INC 90.83

MD 12490 TVD 7285.94

INC 91.66 AZ 90.51

MD 12576 TVD 7284.07

INC 90.83 AZ 90.78

SS 99%: gy-drkgy-wht-clr, fg-mg, rnd-sub rnd,
sft, md cal, carb incl, fri, nsf, v slw str wht cut. SH
1%; gy-dkgy, sply-sbbkly, silty, grty, sft.

LS 75%: ltgy, blkly, frm-hrd, v calc, crypxln-mxln, nsf,
nsfc. SS 25%: gy-drkgy-wht-clr, fg-mg, rnd-sub rnd,
sft, md cal, carb incl, fri, nsf, v slw str wht cut.

LS 75%: ltgy, blkly, frm-hrd, v calc, crypxln-mxln, nsf,
nsfc. SS 25%: gy-drkgy-wht-clr, fg-mg, rnd-sub rnd,
sft, md cal, carb incl, fri, nsf, v slw str wht cut.

SS 70%: g
md cal, ca
30%: ltgy,
nsfc.

7330

MW: 9.3/ VIS: 49

MW: 9.2/ VIS: 42

2FT Flare

1FT Flare

10000

TG, C1-C5

0

RGP (min/ft)

0

Gamma (API)

0

12650

12700

12750

12800

7230 TVD

MD 12661 TVD 7283.82'
INC 89.5 AZ 89.17

MD 12746 TVD 7284.65'
INC 89.38 AZ 88.64

y-drkgy-wht-clr, fg-mg, rnd-sub
rb incl, fri, nsf, v slw str wht
blky, frm-hrd, v calc, crypxln-mx

SS 70%: gy-drkgy-wht-clr, fg-mg, rnd-sub rnd, sft,
md cal, carb incl, fri, nsf, v slw str wht cut. LS
30%: ltgy, blk, frm-hrd, v calc, crypxln-mxln, nsf,
nsfc.

SS 100%: gy-drkgy-wht-clr, fg-mg, rnd-sub rnd,
sft, md cal, carb incl, fri, nsf, v slw str wht cut. Tr.
SH.

SS 100%: gy-drkgy-wht-clr, fg-mg, rnd-sub rnd,
sft, md cal, carb incl, fri, nsf, v slw str wht cut. Tr.
SH.

7330

MW: 9.2/ VIS: 42

MW: 9.2/ VIS: 42

10000

1-3FT Flare

TG, C1-C5

0

3

RGP (min/ft)

250

Gamma (API)

0

12850

12900

12950

13000

7230 TVD

MD 12831 TVD 7285.23
INC 89.84 AZ 89.44

MD 12916 TVD 7285.22
INC 90.18 AZ 89.62

7284
MD 13000 TVD 7285.22
MD 13001 TVD 7285.22
INC 90.58 AZ 89.62

SS 99%: gy-drkgy-wht-clr, fg-mg, rnd-sub rnd,
sft, md cal, carb incl, fri, nsf, v slw str wht cut.
SH 1%: gy-dkgy, sply-sbblky, slty, grty, sft.

SS 99%: gy-drkgy-wht-clr, fg-mg, rnd-sub rnd,
sft, md cal, carb incl, fri, nsf, v slw str wht cut.
SH 1%: gy-dkgy, sply-sbblky, slty, grty, sft.

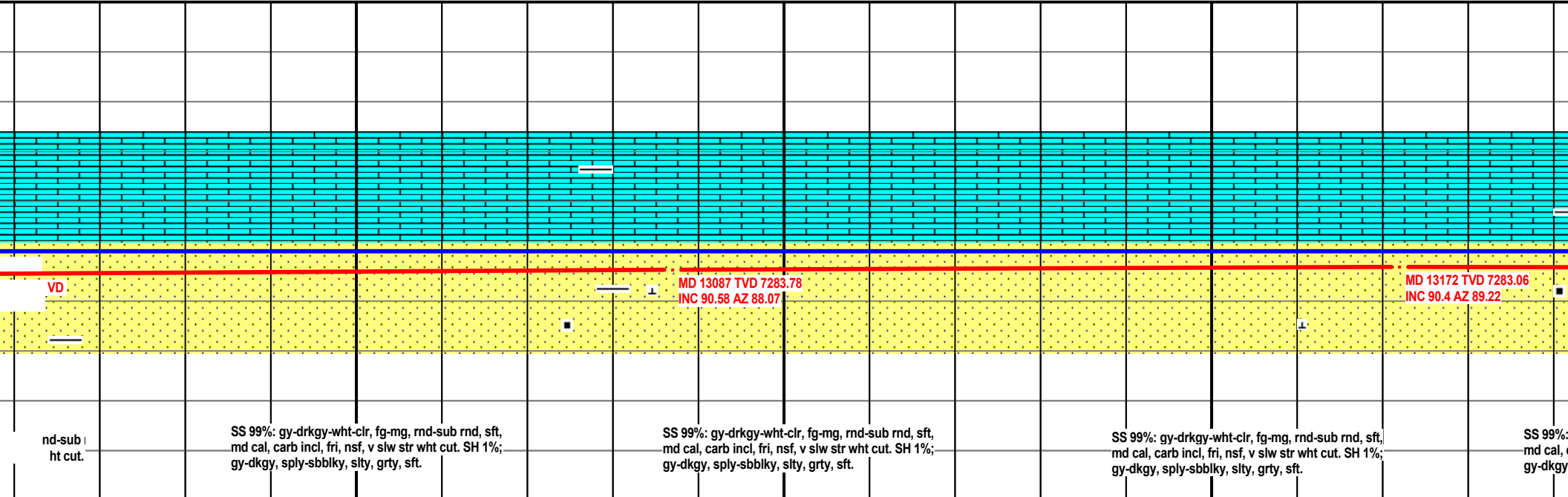
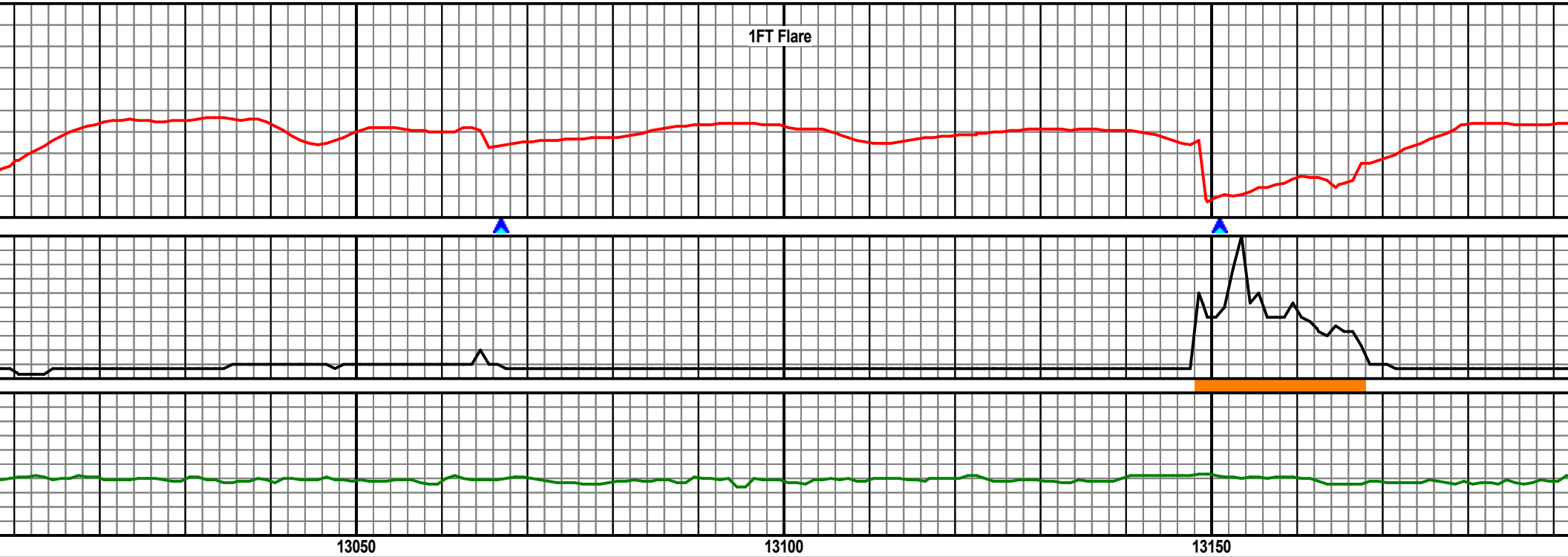
SS 99%: gy-drkgy-wht-clr, fg-mg, rnd-sub rnd, sft,
md cal, carb incl, fri, nsf, v slw str wht cut. SH 1%:
gy-dkgy, sply-sbblky, slty, grty, sft.

SS 99%: gy-drkgy-wht-clr, fg-mg, rnd-sub rnd,
md cal, carb incl, fri, nsf, v slw str wht cut.
gy-dkgy, sply-sbblky, slty, grty, sft.

7330

MW: 9.2/ VIS: 42

1FT Flare



MW: 9.2/ VIS: 42

MW: 9.3/ VIS: 39

10000
1-3 FT Flare

1-4 FT Flare

TG, C1-C5

0

3

RGP (min/ft)

0

250

Gamma (API)

0

13200

13250

13300

13350

7230 TVD

7280

MD 13257 TVD 7283.47
INC 89.04 AZ 89.31

MD 13342 TVD 7284.94
INC 88.98 AZ 89.25

gy-drkggy-wht-clr, fg-mg, rnd-sub
arb incl, fri, nsf, v slw str wht cut.
, sply-sbbiky, slty, c

SS 99%: gy-drkggy-wht-clr, fg-mg, rnd-sub rnd, sft,
md cal, carb incl, fri, nsf, v slw str wht cut. SH 1%;
gy-dkgy, sply-sbbiky, slty, grty, sft.

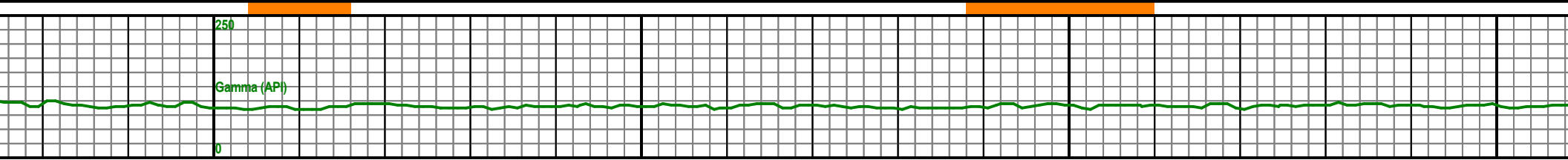
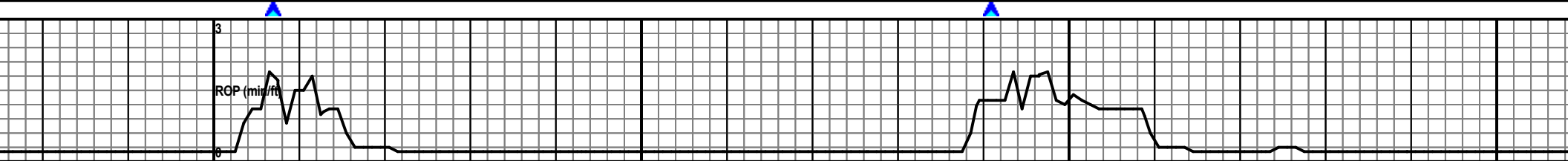
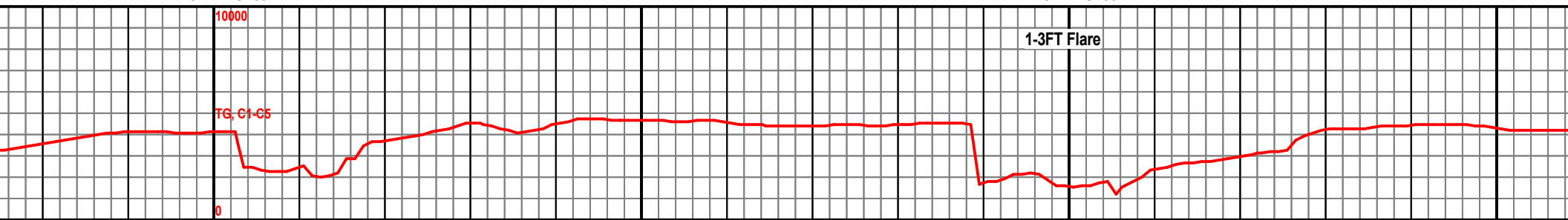
SS 99%: gy-drkggy-wht-clr, fg-mg, rnd-sub rnd, sft,
md cal, carb incl, fri, nsf, v slw str wht cut. SH 1%;
gy-dkgy, sply-sbbiky, slty, grty, sft.

SS 99%: gy-drkggy-wht-clr, fg-mg, rnd-sub rnd, sft,
md cal, carb incl, fri, nsf, v slw str wht cut. SH 1%;
gy-dkgy, sply-sbbiky, slty, grty, sft.

7330

MW: 9.2/ VIS: 39

MW: 9.2/ VIS: 39



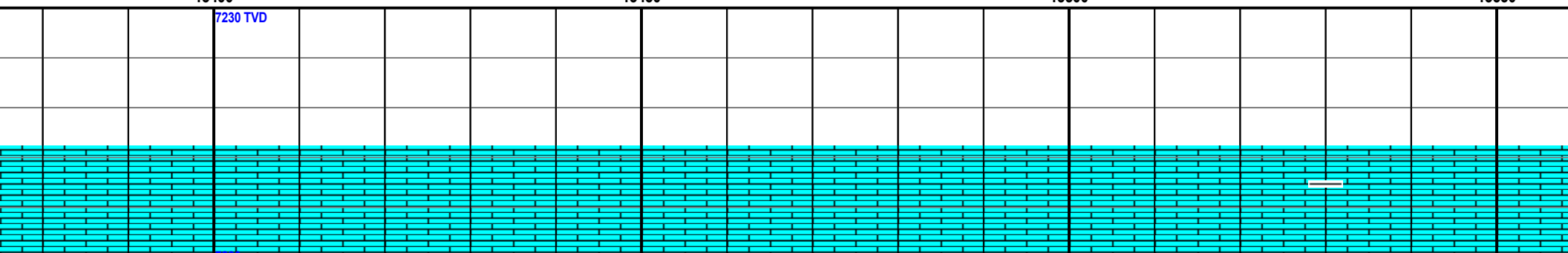
13400

13450

13500

13550

7230 TVD



MD 13427 TVD 7286.09
INC 89.47 AZ 89.43

MD 13513 TVD 7286.35
INC 90.18 AZ 90.25

SS 99%: gy-drkgy-wht-clr, fg-mg, rnd-sub rnd, sft,
md cal, carb incl, fri, nsf, v slw str wht cut. SH 1%;
gy-dkgy, sply-sbblky, slty, grty, sft.

SS 99%: gy-drkgy-wht-clr, fg-mg, rnd-sub rnd, sft,
md cal, carb incl, fri, nsf, v slw str wht cut. SH 1%;
gy-dkgy, sply-sbblky, slty, grty, sft.

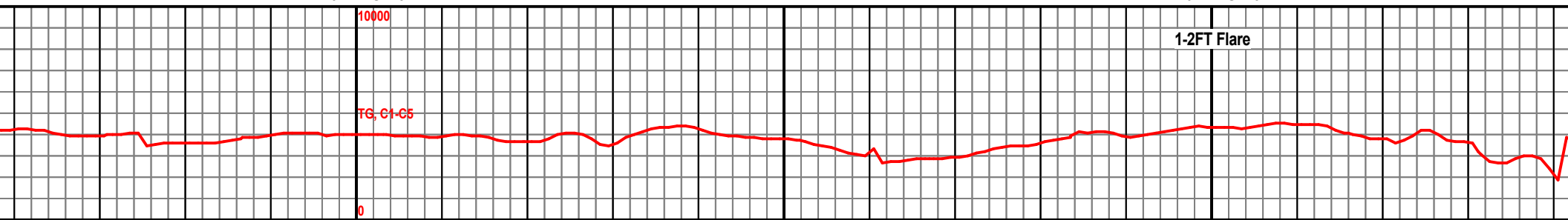
SS 99%: gy-drkgy-wht-clr, fg-mg, rnd-sub rnd, sft,
md cal, carb incl, fri, nsf, v slw str wht cut. SH 1%;
gy-dkgy, sply-sbblky, slty, grty, sft.

SS 99%: gy-drkgy-wht-clr, fg-mg, rnd-sub rnd, sft,
md cal, carb incl, fri, nsf, v slw str wht cut. SH 1%;
gy-dkgy, sply-sbblky, slty, grty, sft.

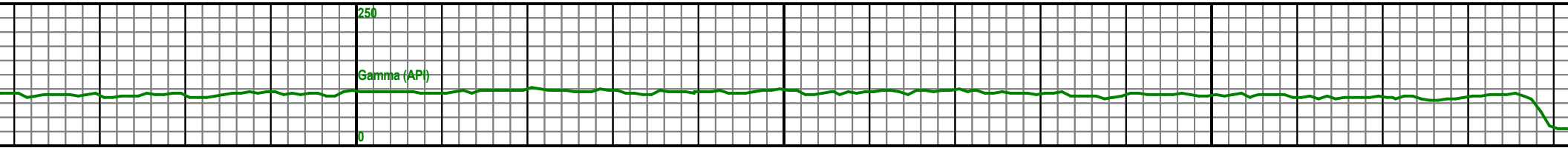
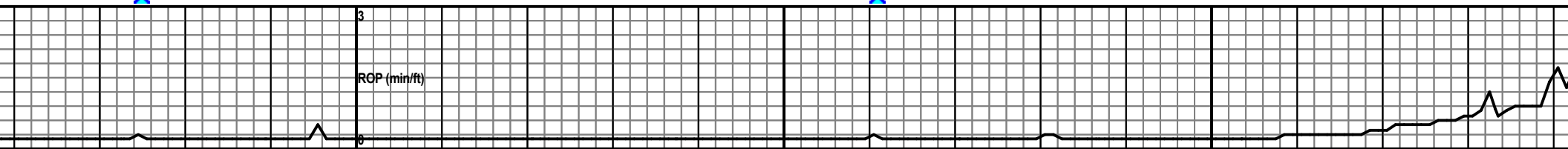
7330

MW: 9.2/ VIS: 45

MW: 9.2/ VIS: 45



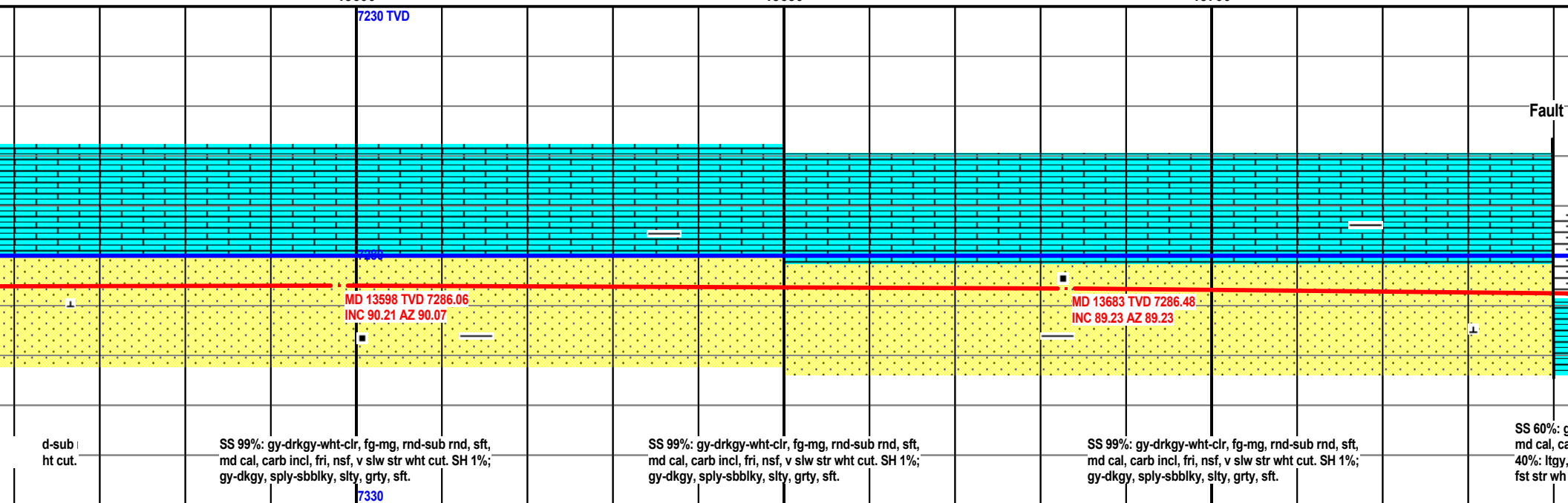
1-2FT Flare



13600

13650

13700



MW: 9.2/ VIS: 45

MW: 9.2/ VIS: 43

1FT Flare

1-3FT Flare

TG, C1-C5

0

RGP (min/ft)

0

250

Gamma (API)

0

13750

13800

13850

13900

7230 TVD

4:00am 10/25/14 Depth @ 13892' MD

Fault

MD 13768 TVD 7287.97
INC 88.76 AZ 88.34

MD 13853 TVD 7289.16
INC 89.63 AZ 88.81

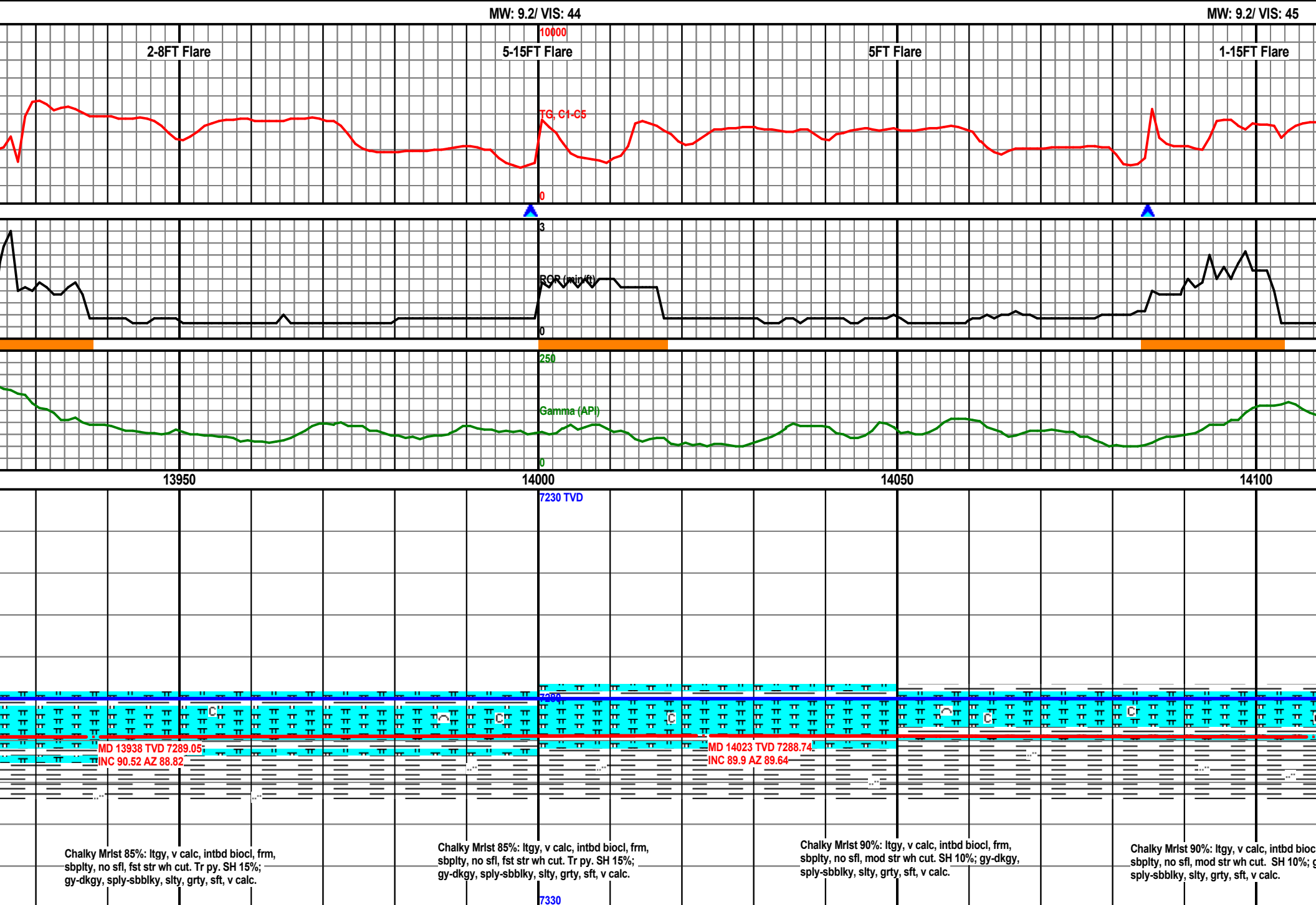
y-drkgy-wht-clr, fg-mg, rnd-sub
rb incl, fri, nsf, v slw str wht cu
v calc, intbd biocl, frm, sbply,
cut. Tr p

Chalky Mrlst 95%: ltgy, v calc, intbd biocl, frm,
sbply, no sfl, fst str wh cut. Tr py. SH 5%;
gy-dkgy, sply-sbbiky, slty, grty, sft.

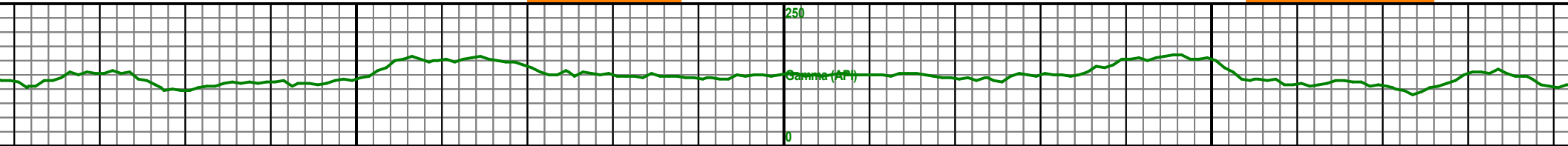
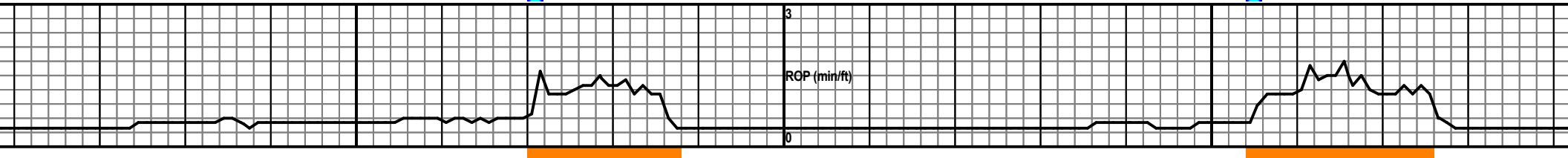
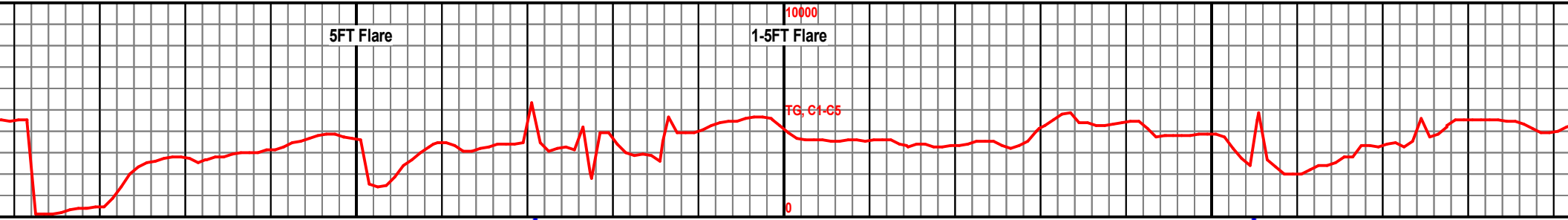
Chalky Mrlst 85%: ltgy, v calc, intbd biocl, frm,
sbply, no sfl, fst str wh cut. Tr py. SH 15%;
gy-dkgy, sply-sbbiky, slty, grty, sft, v calc.

Chalky Mrlst 85%: ltgy, v calc, intbd biocl, frm,
sbply, no sfl, fst str wh cut. Tr py. SH 15%;
gy-dkgy, sply-sbbiky, slty, grty, sft, v calc.

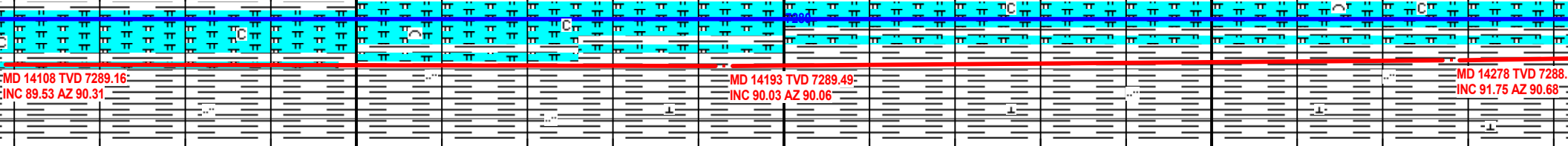
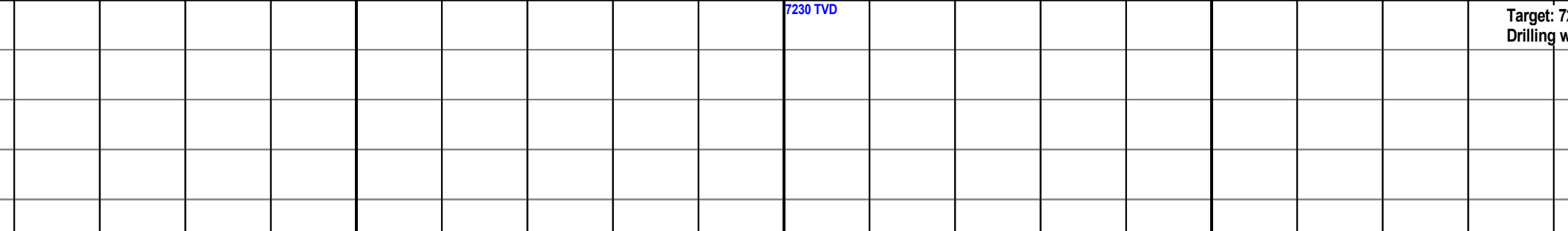
7330



MW: 9.2/ VIS: 45



14150 14200 14250



SH 95%; gy-dkgy, sply-sbblky, slty, grty, sft, v
calc.Chalky Mrst 5%: ltgy, v calc, intbd biocl, frm,
sbply, no sfl, slw str wh cut.

SH 95%; gy-dkgy, sply-sbblky, slty, grty, sft, v
calc.Chalky Mrst 5%: ltgy, v calc, intbd biocl, frm,
sbply, no sfl, slw str wh cut.

SH 95%; gy-dkgy, sply-sbblky, slty, grty, sft, v
calc.Chalky Mrst 5%: ltgy, v calc, intbd biocl, frm,
sbply, no sfl, slw str wh cut.

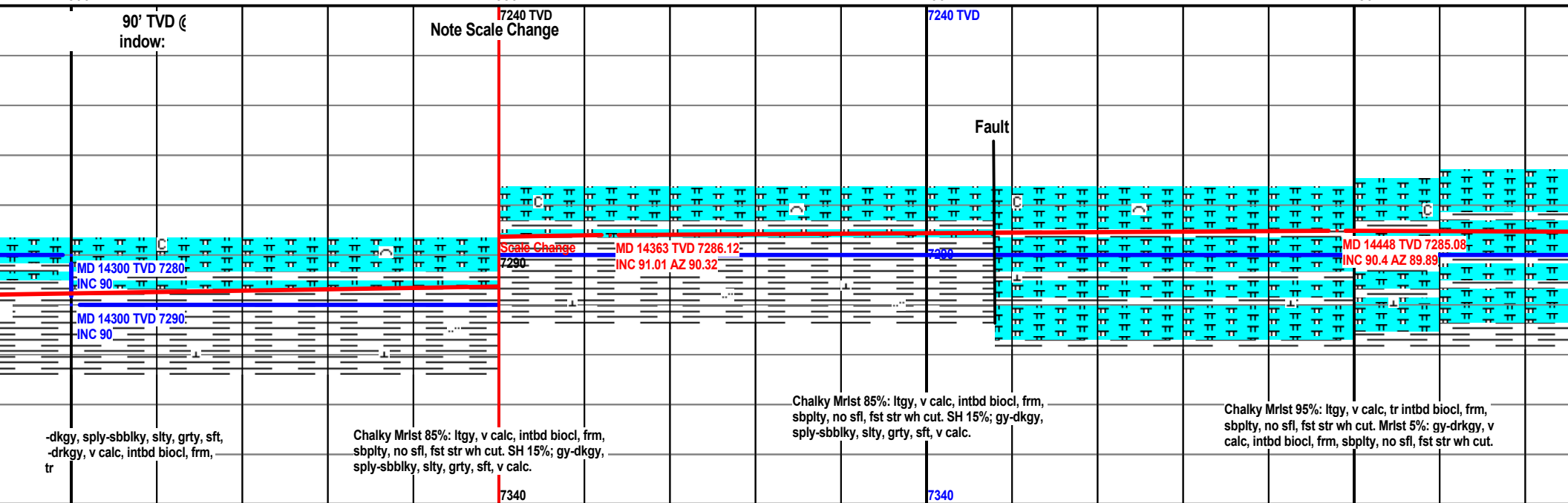
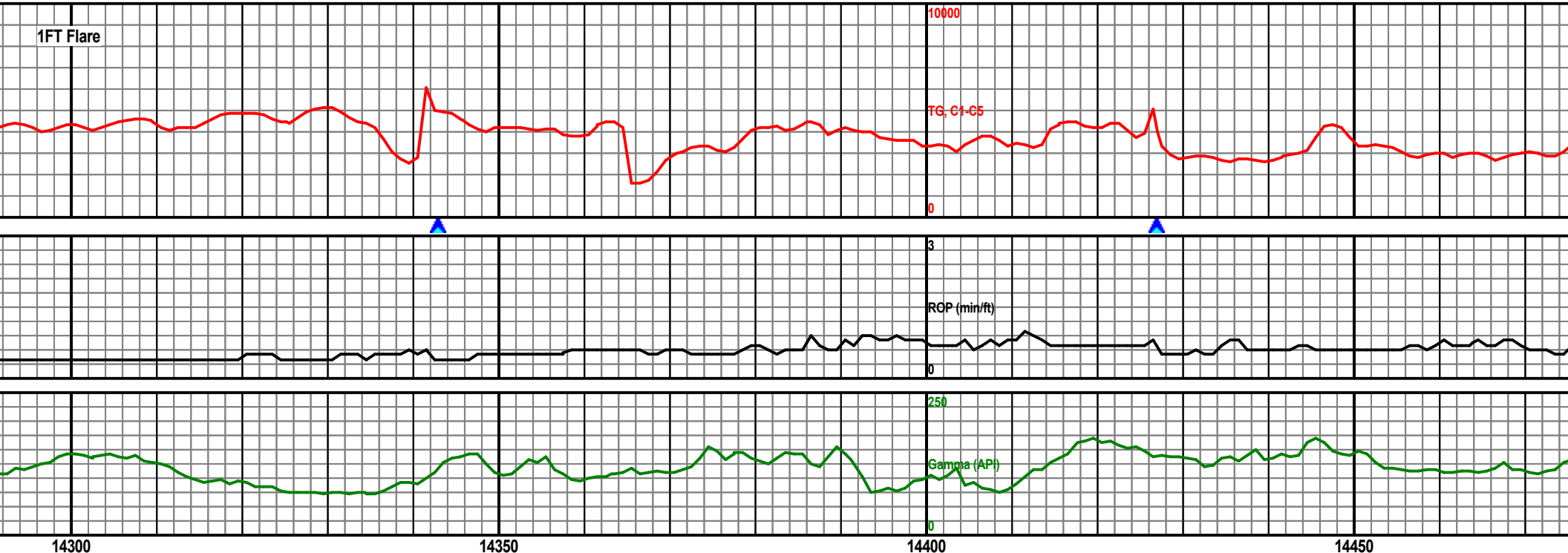
SH 95%; gy-dkgy, sply-sbblky, slty, grty, sft, v
calc.Chalky Mrst 5%: ltgy, v calc, intbd biocl, frm,
sbply, no sfl, slw str wh cut.

7330

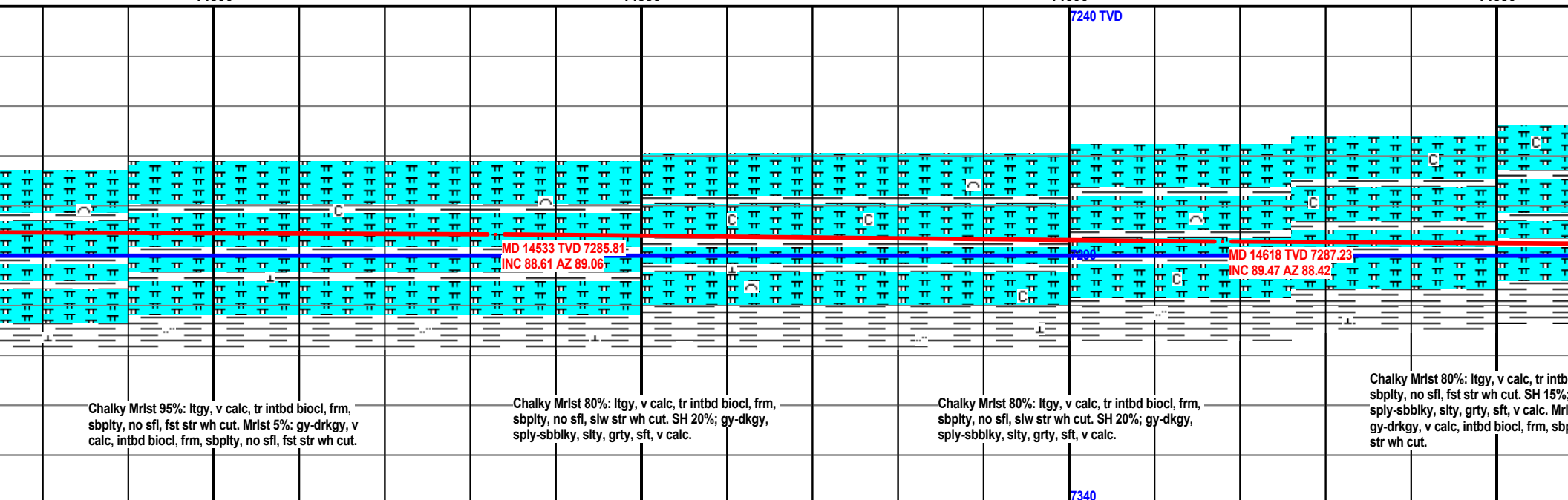
Target: 7
Drilling w

MW: 9.2/ VIS: 48

MW: 9.2/ VIS: 46

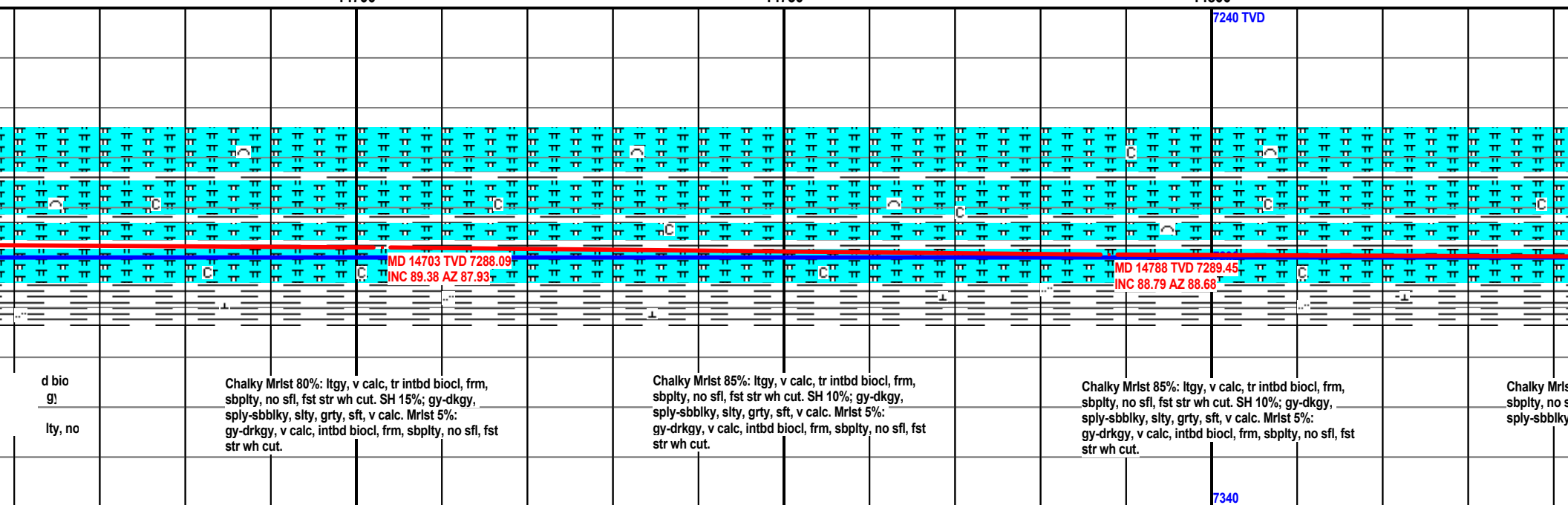
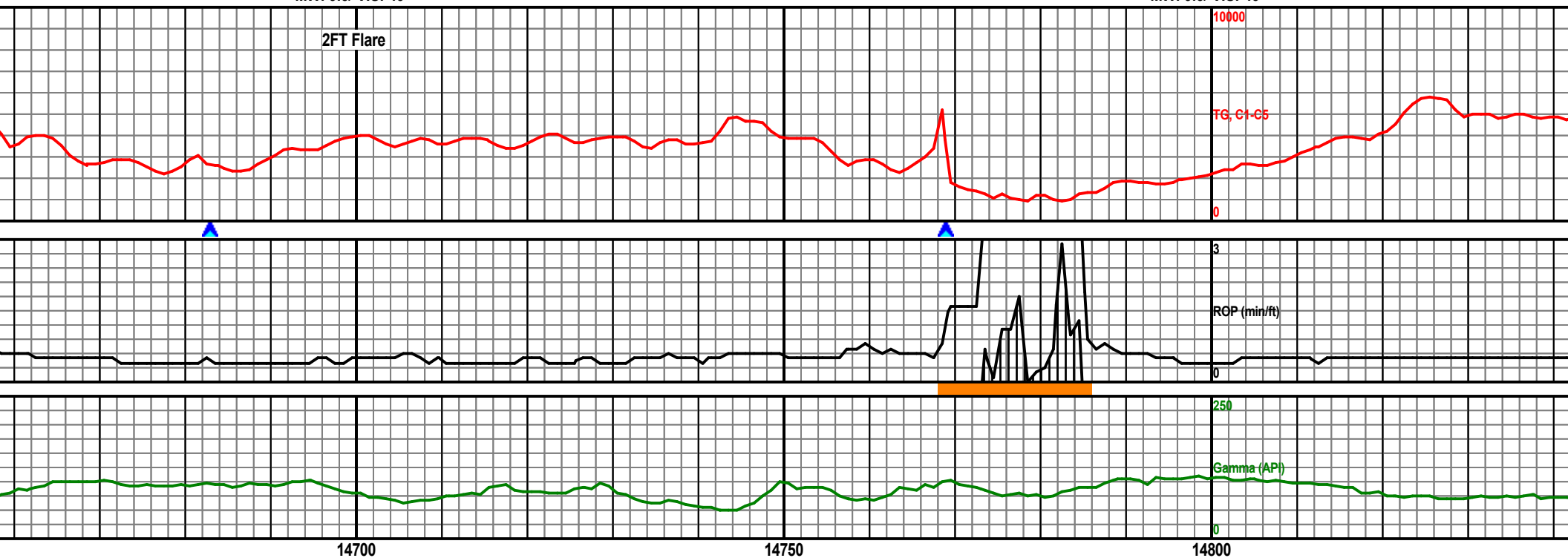


MW: 9.2/ VIS: 46



MW: 9.3/ VIS: 46

MW: 9.3/ VIS: 46



MW: 9.2/ VIS: 44

MW: 9.2/ VIS: 44

1-3FT Flare

1-3FT Flare

TG, C1-C5

0

3

RGP (min/ft)

0

250

Gamma (API)

0

14850

14900

14950

15000

7240 TVD

MD 14873 TVD 7289.87
INC 90.64 AZ 89.14

MD 14958 TVD 7289.62
INC 89.69 AZ 88.7

MD 15000 TVD 7290
INC 90

t 90%: ltgy, v calc, tr intbd bio
fl, fst str wh cut. SH 10%; g,
, slty, grty, sft

Chalky Mrst 90%: ltgy, v calc, tr intbd biocl, frm,
sbply, no sfl, fst str wh cut. SH 10%; gy-dkgy,
sply-sbbiky, slty, grty, sft, v calc.

Chalky Mrst 50%: ltgy, v calc, tr intbd biocl, frm,
sbply, no sfl, fst str wh cut. SH 50%; gy-dkgy,
sply-sbbiky, slty, grty, sft, v calc.

Chalky Mrst 50%: ltgy, v calc, tr intbd biocl, frm,
sbply, no sfl, fst str wh cut. SH 50%; gy-dkgy,
sply-sbbiky, slty, grty, sft, v calc.

7340

MW: 9.4/ VIS: 42

MW: 9.5/ VIS: 53

5-10FT Flare

10/26/14 @ 4:23am Trip out to
3260' MD to pick up agitator. B.O.B
@ 4:53pm.
Trip Gas = 4193 With a
20-30FT flare.

TG, C1-C5

0

3

RGP (min/ft)

0

250

Gamma (API)

0

15050

15100

15150

15200

4:00am 10/26/14 Depth @ 15193' MD

7240 TVD

7300

7340

MD 15043 TVD 7290.4
INC 89.26 AZ 89.02

MD 15128 TVD 7292.15
INC 88.39 AZ 88.8

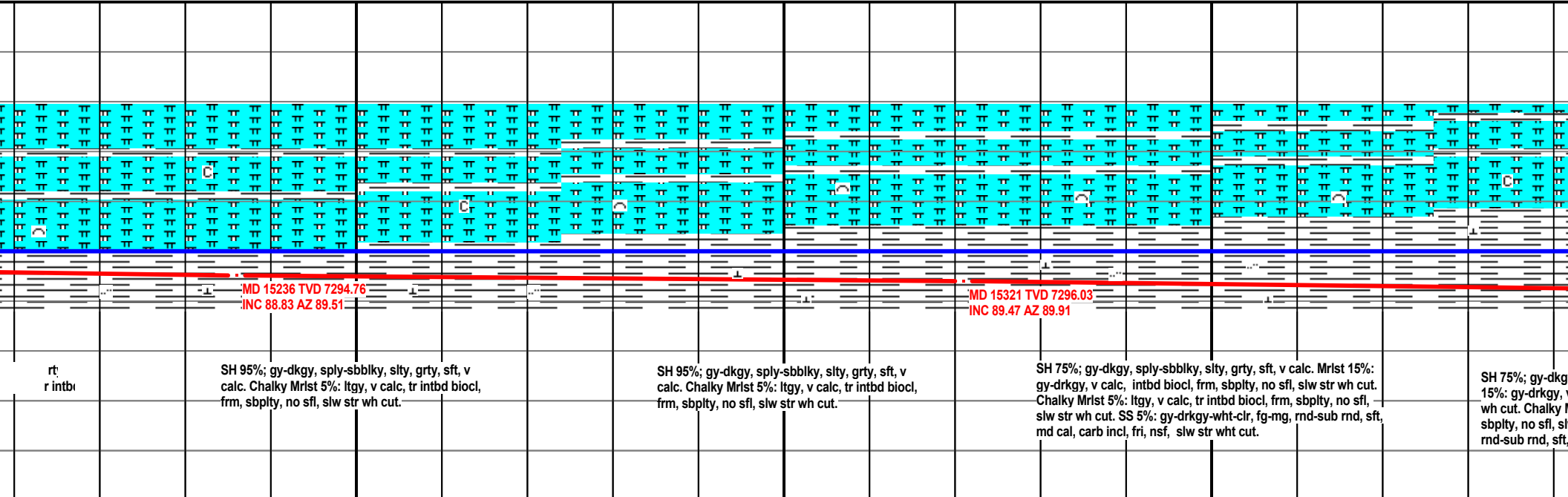
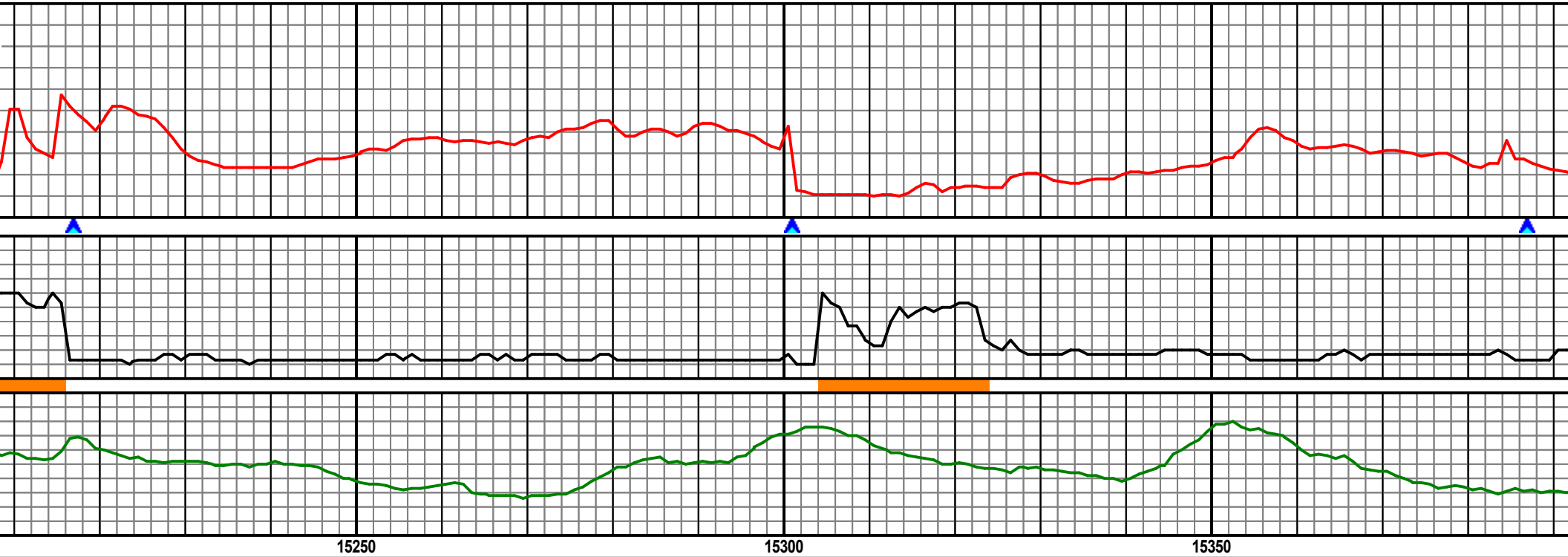
SH 100%; gy-dkgy, sply-sbblky, slty, grty, sft, v
calc.

SH 100%; gy-dkgy, sply-sbblky, slty, grty, sft, v
calc.

SH 90%; gy-dkgy, sply-sbblky, slty, grty, sft, v
calc. Chalky Mrlst 10%; ltgy, v calc, tr intbd biocl,
frm, sbply, no sfl, slw str wh cut.

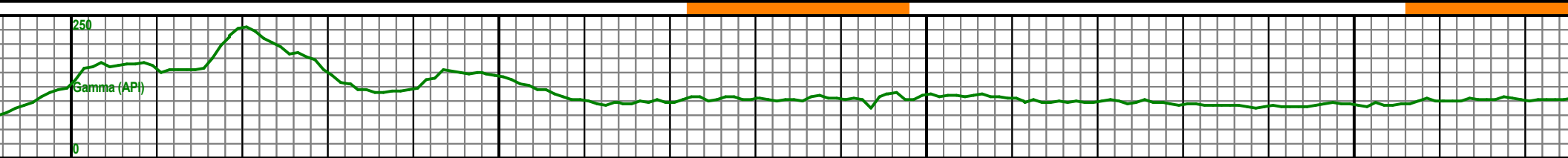
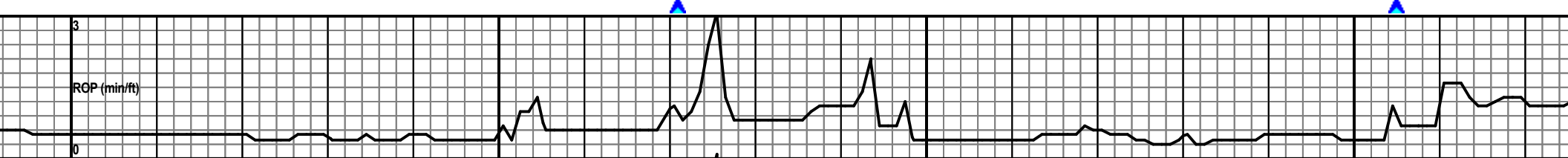
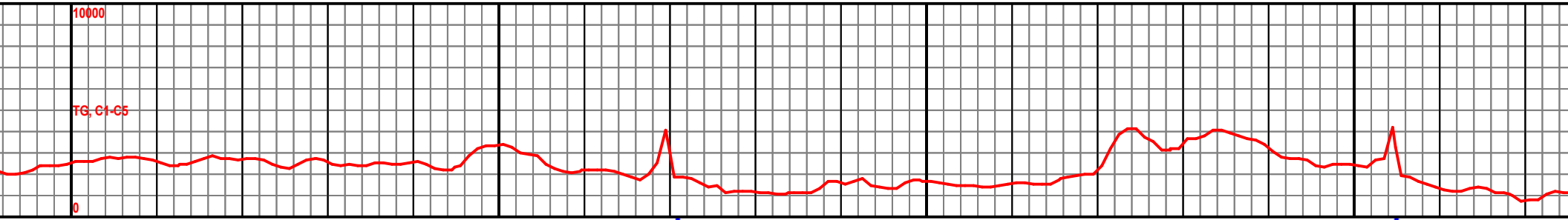
SH 90%; gy-dkgy, sply-sbblky, slty,
calc. Chalky Mrlst 10%; ltgy, v calc,
frm, sbply, no sfl, slw str wh cut.

MW: 9.2/ VIS: 41

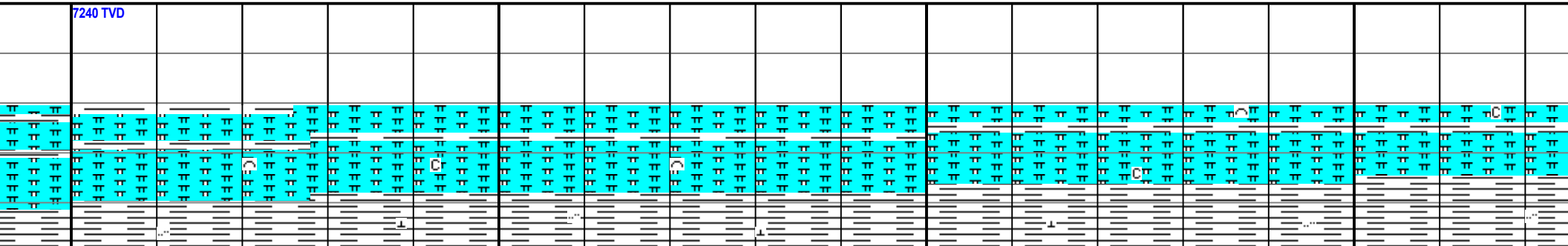


MW: 9.2/ VIS: 44

MW: 9.2/ VIS: 44



15400 15450 15500 15550



7290

MD 15406 TVD 7297.61
INC 88.39 AZ 89.37

MD 15491 TVD 7299.29
INC 89.35 AZ 89.58

y, sply-sbbiky, slty, grty, sft, v calc,
calc, intbd biocl, frm, sbply, no sfl,
rist 5%; ltgy, v calc, tr intbd bio
str wh cut. SS 5%; gy-dkgy-wht-clr,
md cal, carb incl, fri, nsf, slw str

SH 70%; gy-dkgy, sply-sbbiky, slty, grty, sft, v
calc. Chalky Mrst 30%; ltgy, v calc, tr intbd biocl,
frm, sbply, no sfl, slw str wh cut.

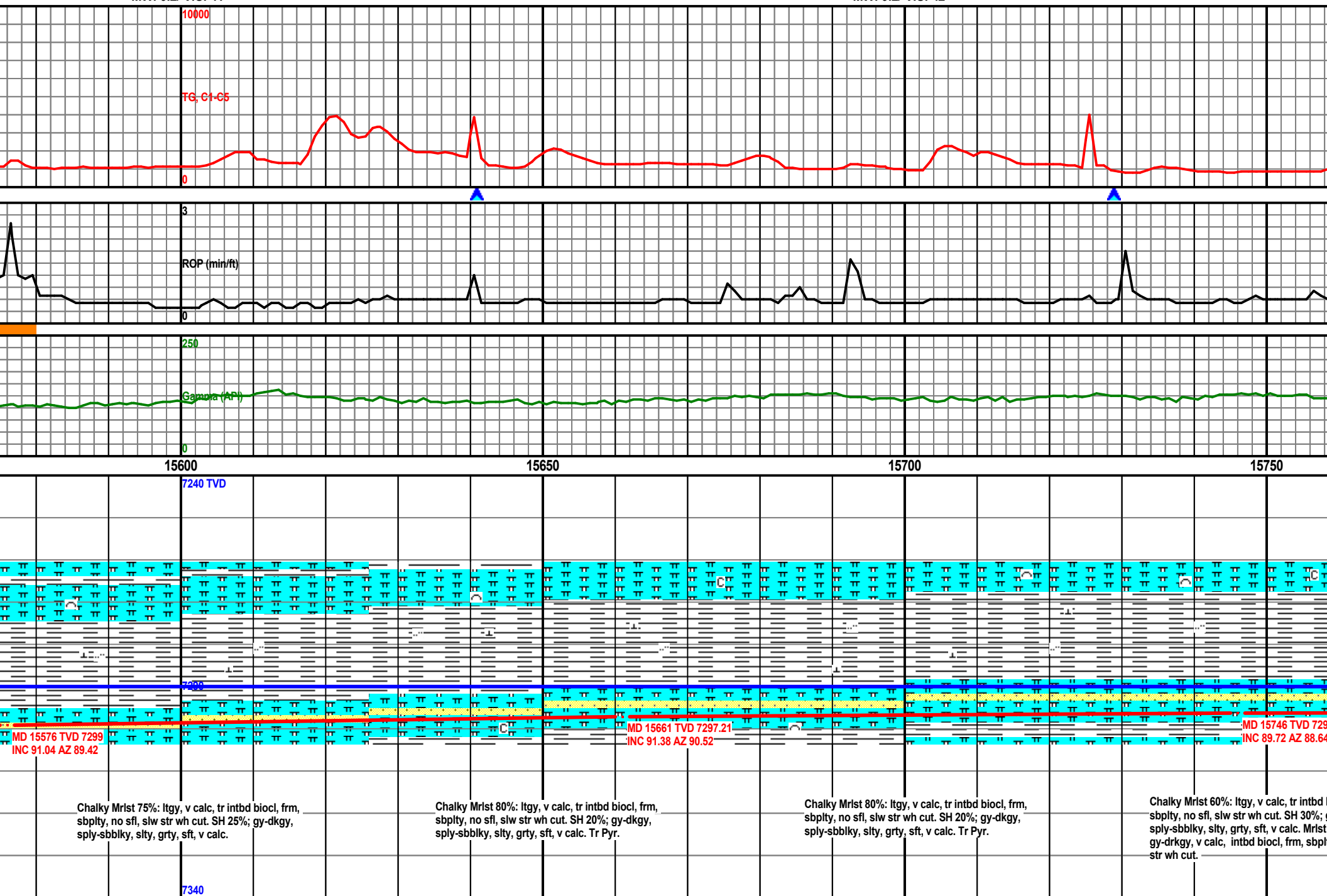
SH 70%; gy-dkgy, sply-sbbiky, slty, grty, sft, v
calc. Chalky Mrst 30%; ltgy, v calc, tr intbd biocl,
frm, sbply, no sfl, slw str wh cut.

Chalky Mrst 75%; ltgy, v calc, tr intbd biocl, frm,
sbply, no sfl, slw str wh cut. SH 25%; gy-dkgy,
sply-sbbiky, slty, grty, sft, v calc.

7340

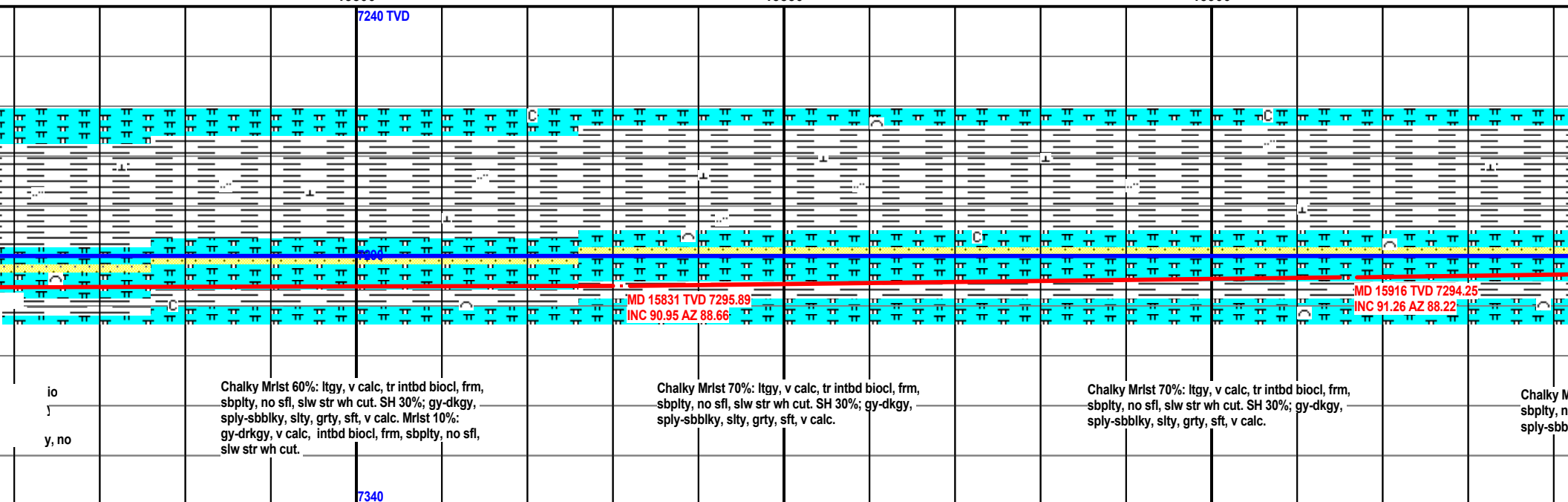
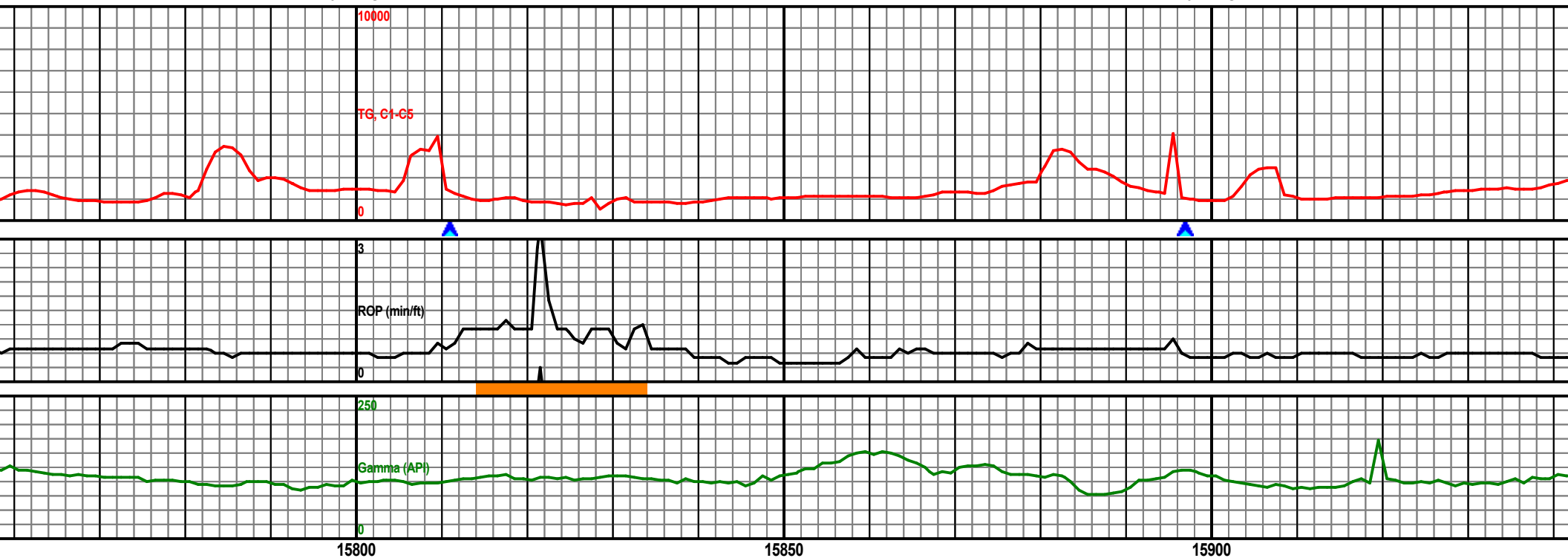
MW: 9.2/ VIS: 41

MW: 9.2/ VIS: 42



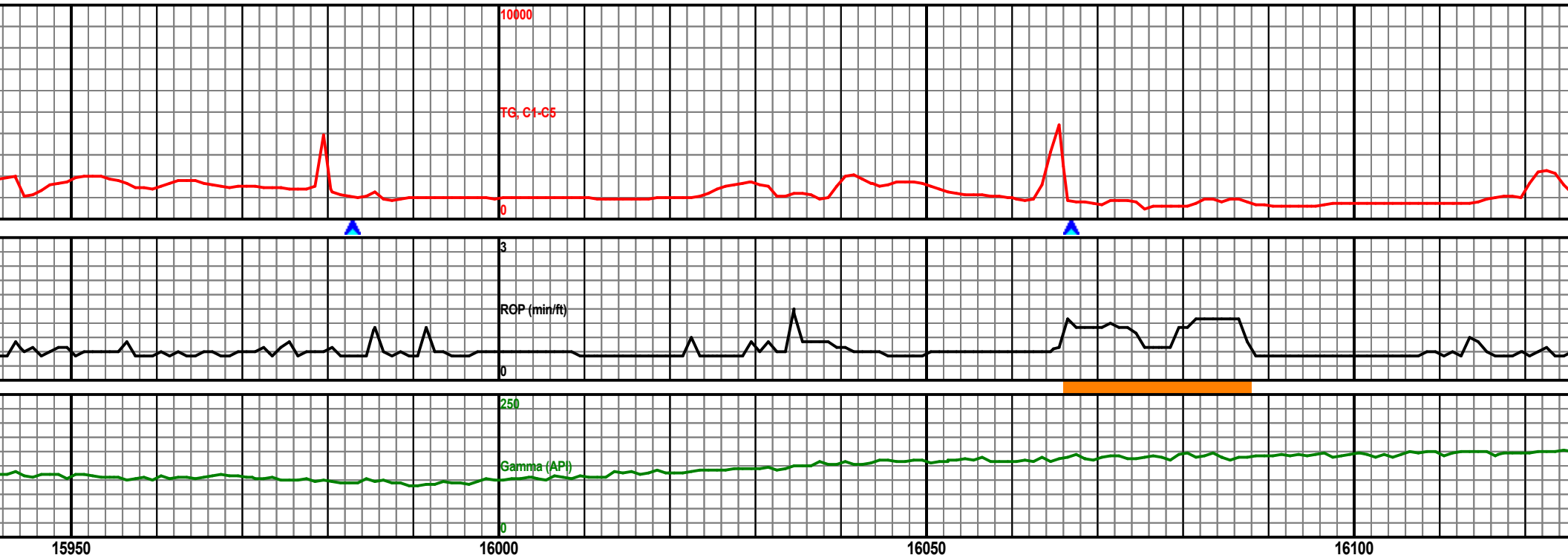
MW: 9.2/ VIS: 42

MW: 9.2/ VIS: 44



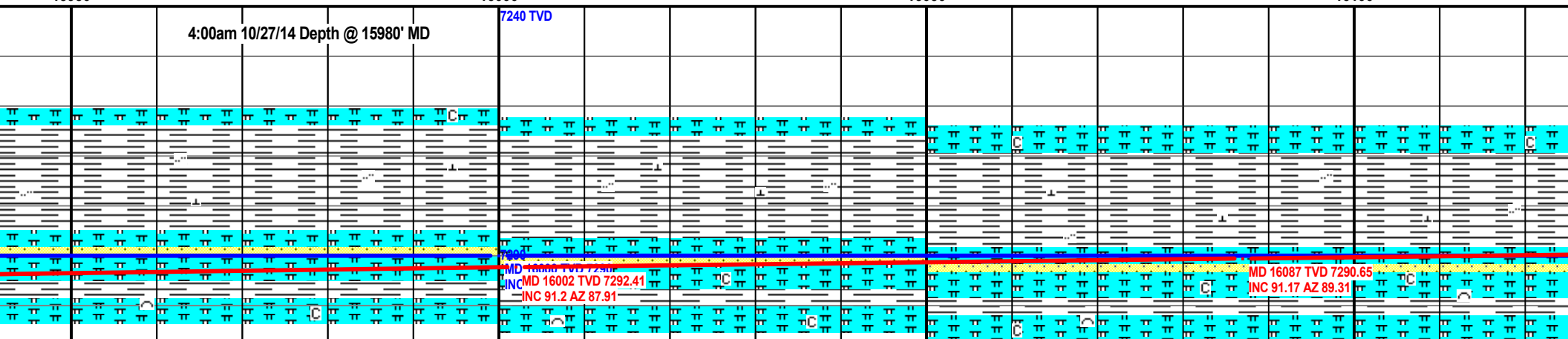
MW: 9.2/ VIS: 44

MW: 9.2/ VIS: 44



4:00am 10/27/14 Depth @ 15980' MD

7240 TVD



rist 70%: ltgy, v calc, tr intbd bio
o sfl, slw str wh cut. SH 30%; g
lky, slty, grty, sft,

Chalky Mrlst 70%: ltgy, v calc, tr intbd biocl, frm,
sbply, no sfl, slw str wh cut. SH 30%; gy-dkgy,
sply-sbblky, slty, grty, sft, v calc.

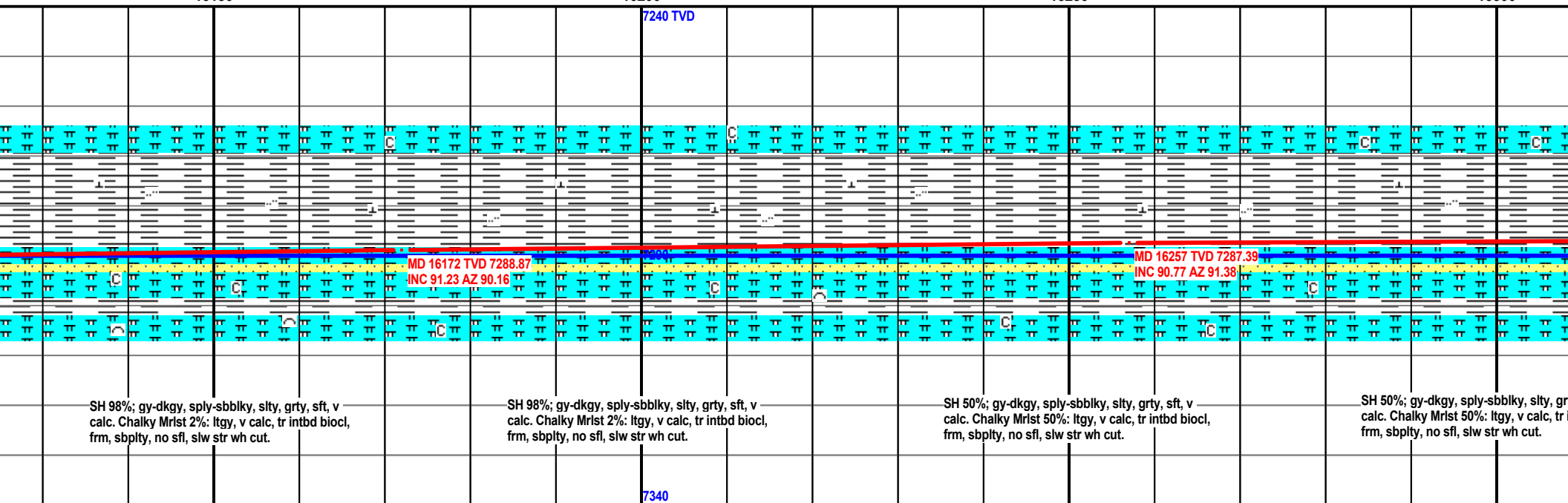
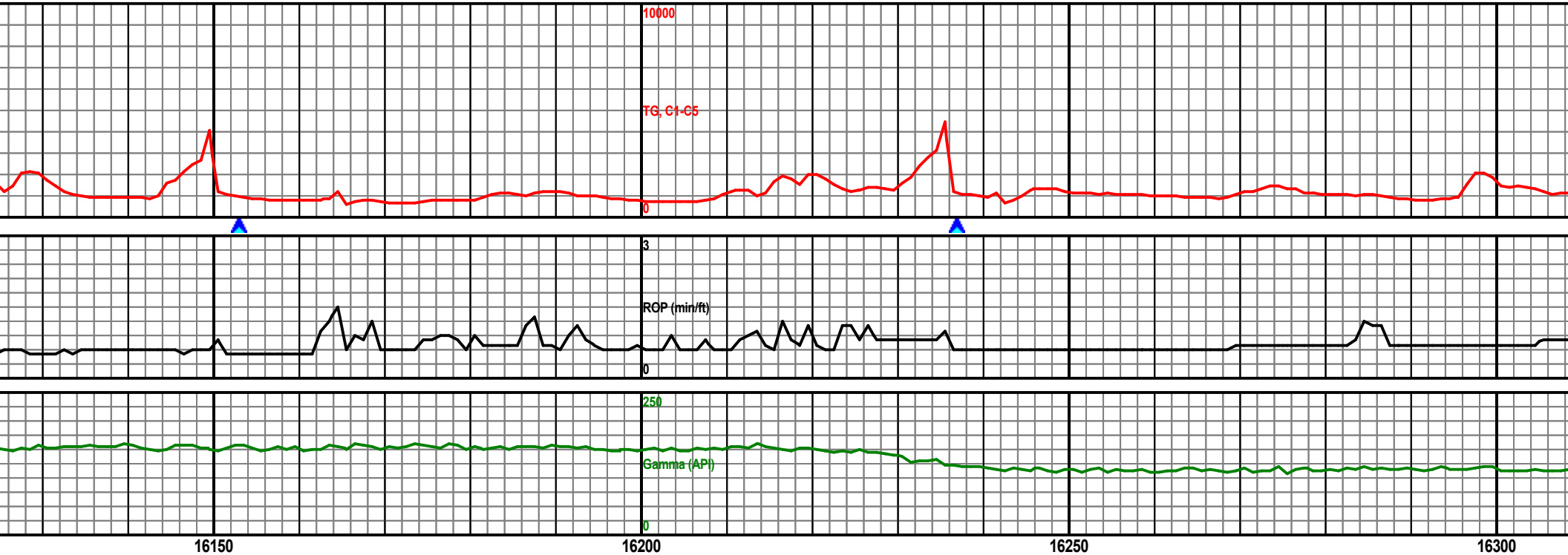
Chalky Mrlst 80%: ltgy, v calc, tr intbd biocl, frm,
sbply, no sfl, slw str wh cut. SH 20%; gy-dkgy,
sply-sbblky, slty, grty, sft, v calc.

Chalky Mrlst 80%: ltgy, v calc, tr intbd biocl, frm,
sbply, no sfl, slw str wh cut. SH 20%; gy-dkgy,
sply-sbblky, slty, grty, sft, v calc.

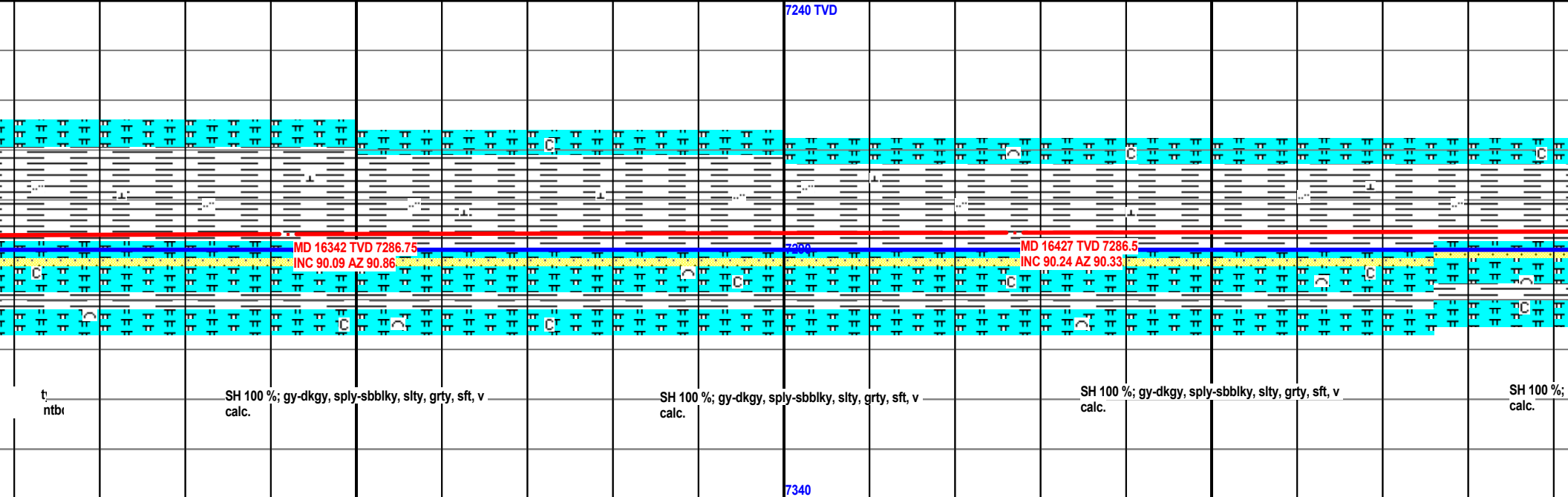
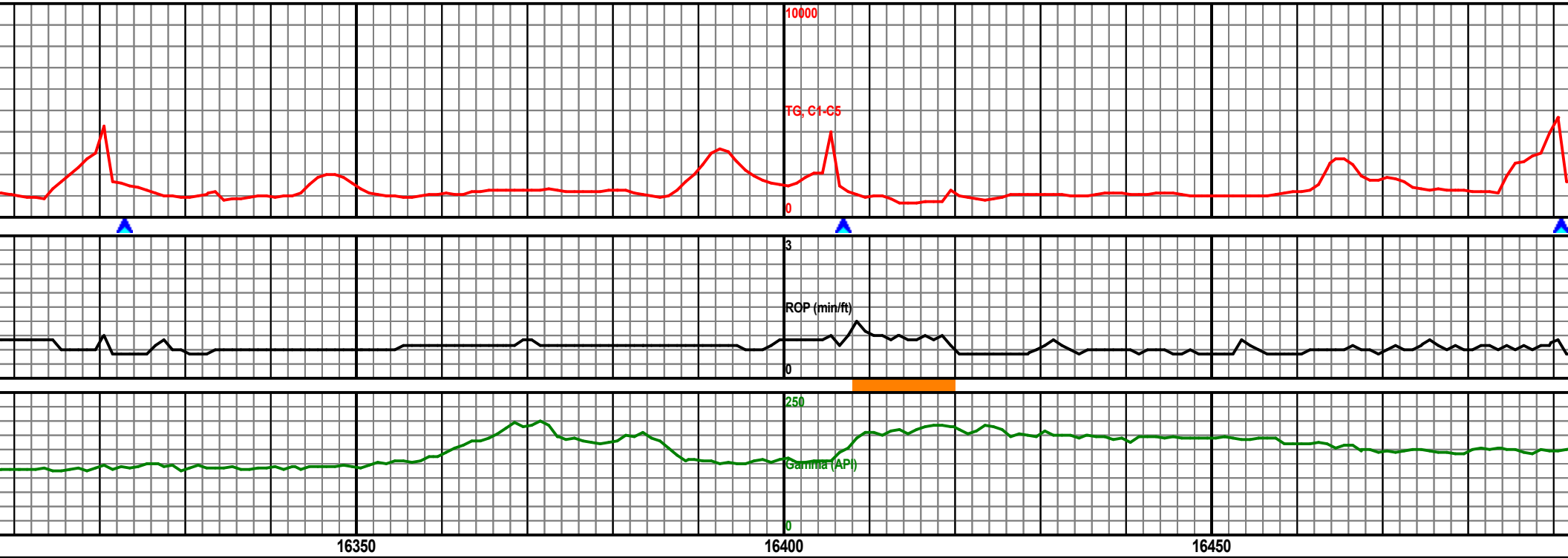
7340

MW: 9.35/ VIS: 44

MW: 9.35/ VIS: 44



MW: 9.4/ VIS: 43



t_{ntr}

SH 100 %; gy-dkgy, sply-sbblky, slty, grty, sft, v
calc.

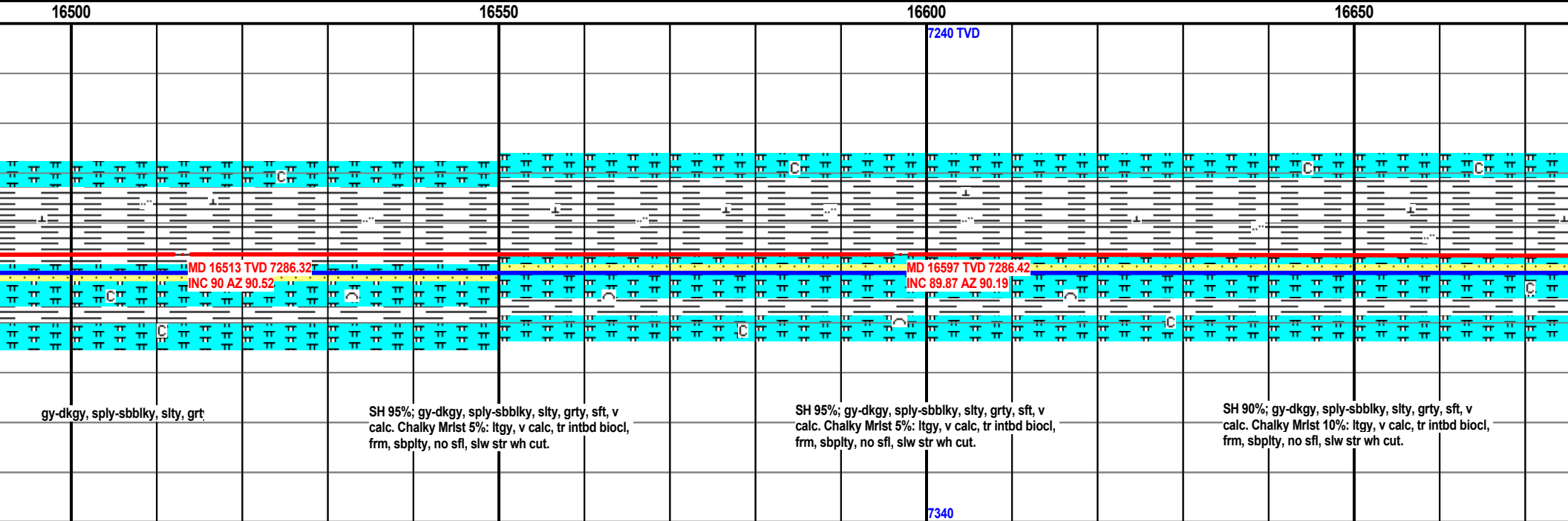
SH 100 %; gy-dkgy, sply-sbblky, slty, grty, sft, v
calc.

SH 100 %; gy-dkgy, sply-sbblky, slty, grty, sft, v
calc.

SH 100 %;
calc.

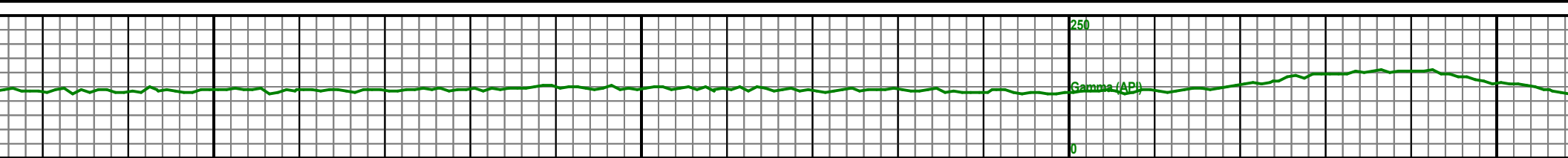
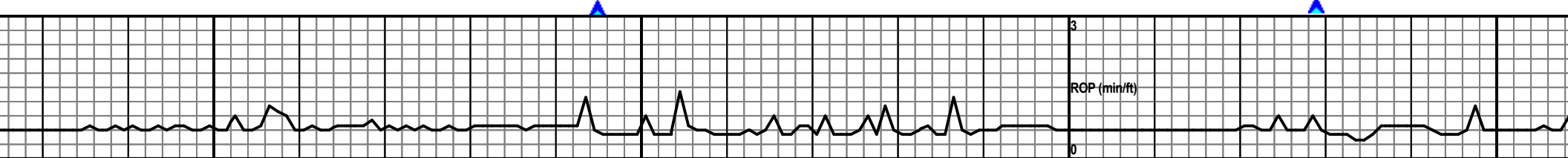
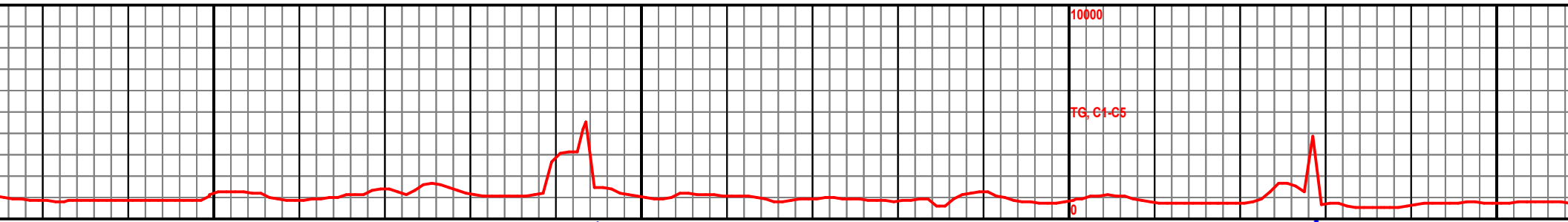
MW: 9.4/ VIS: 43

MW: 9.4/ VIS: 48



MW: 9.4/ VIS: 48

MW: 9.4/ VIS: 45

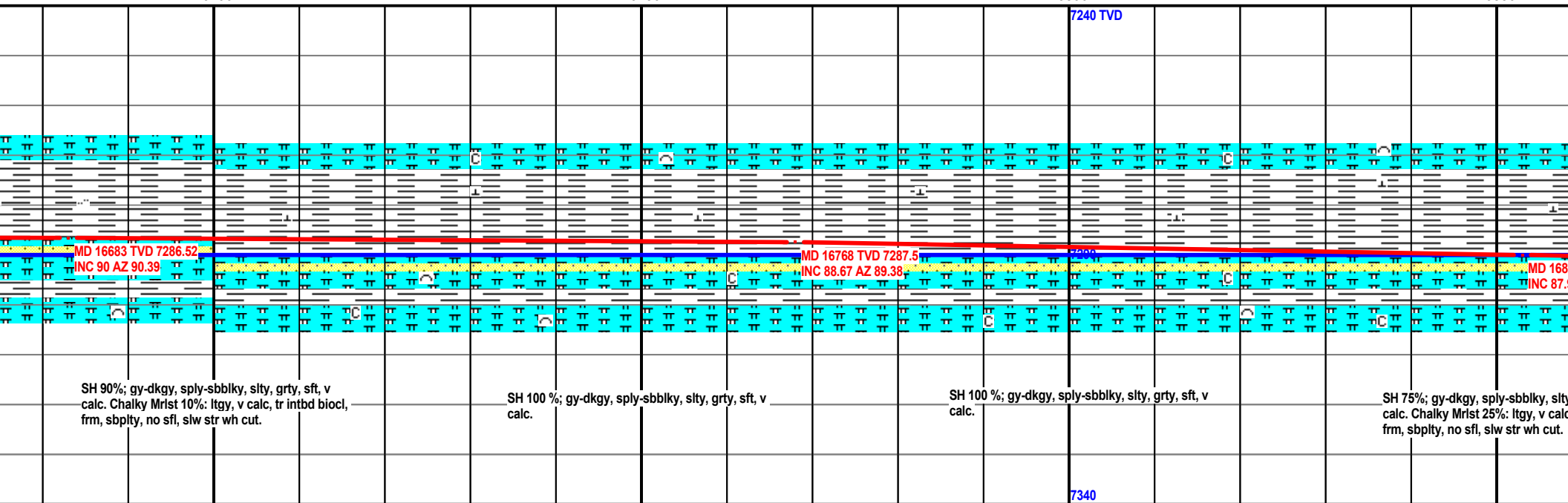


16700

16750

16800

16850



MW: 9.45/ VIS: 46

TD of 16951' MD Achieved @ 7:01PM
10/27/14. T.O.O.H. for casing.

16900

16950

Two man logging unit with sample
program released 10/27/14.

53 TVD
9 A

MD 16887 TVD 7291.27
INC 87.65 AZ 89.14

MD 16951 TVD 7293.9
INC 87.65 AZ 89.14

, grt
, tr intbr

SH 75%; gy-dkgy, sply-sbblky, slty, grty, sft, v
calc. Chalky Mrlst 25%; ltgy, v calc, tr intbd biocl,
frm, sbpity, no sfl, slw str wh cut.

SH 85%; gy-dkgy, sply-sbblky, slty, grty, sft, v
calc. Chalky Mrlst 15%; ltgy, v calc, tr intbd biocl,
frm, sbpity, no sfl, slw str wh cut.