



Scale 1:200 Imperial  
Measured Depth Log

Well Name: D&C Farms 14N-33HZ  
Location: Weld County, CO.  
License Number: 05123378940000  
Spud Date: 09/30/13  
Surface Coordinates: 767' FSL & 2186' FWL, SEC. 28, T1N-R67W  
Region: Weld County  
Drilling Completed: 10/05/013  
Bottom Hole Coordinates: 460' FSL & 1990' FWL, SEC. 33, T1N-R67W  
Ground Elevation (ft): 5026' K.B. Elevation (ft): 5039'  
Logged Interval (ft): 7600' To: 12668' Total Depth (ft): 12668'  
Formation: Niobrara B  
Type of Drilling Fluid: Water Based

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

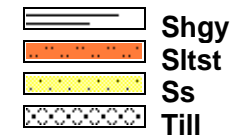
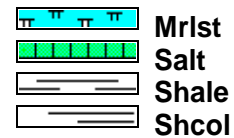
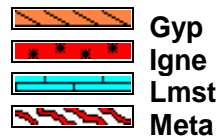
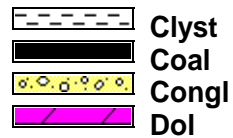
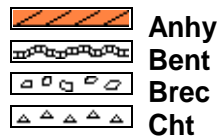
Name: Scott Crozier / Ben Thompson  
Company: Great Divide Consulting, Inc.  
Address: P.O. Box 630263  
Highlands Ranch, CO 80163

## Cores

## DSTs

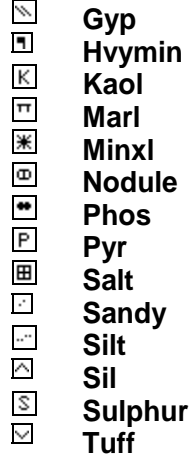
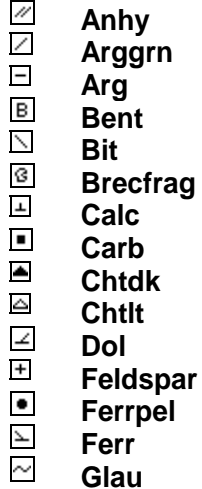
## Comments

## ROCK TYPES

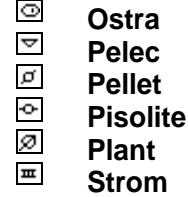
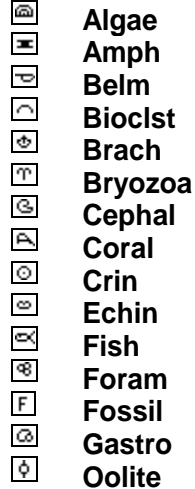


## ACCESSORIES

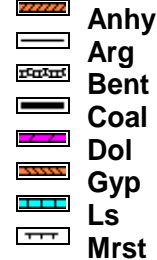
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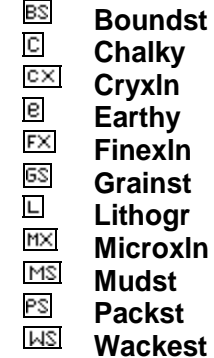
### FOSSIL










### 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**

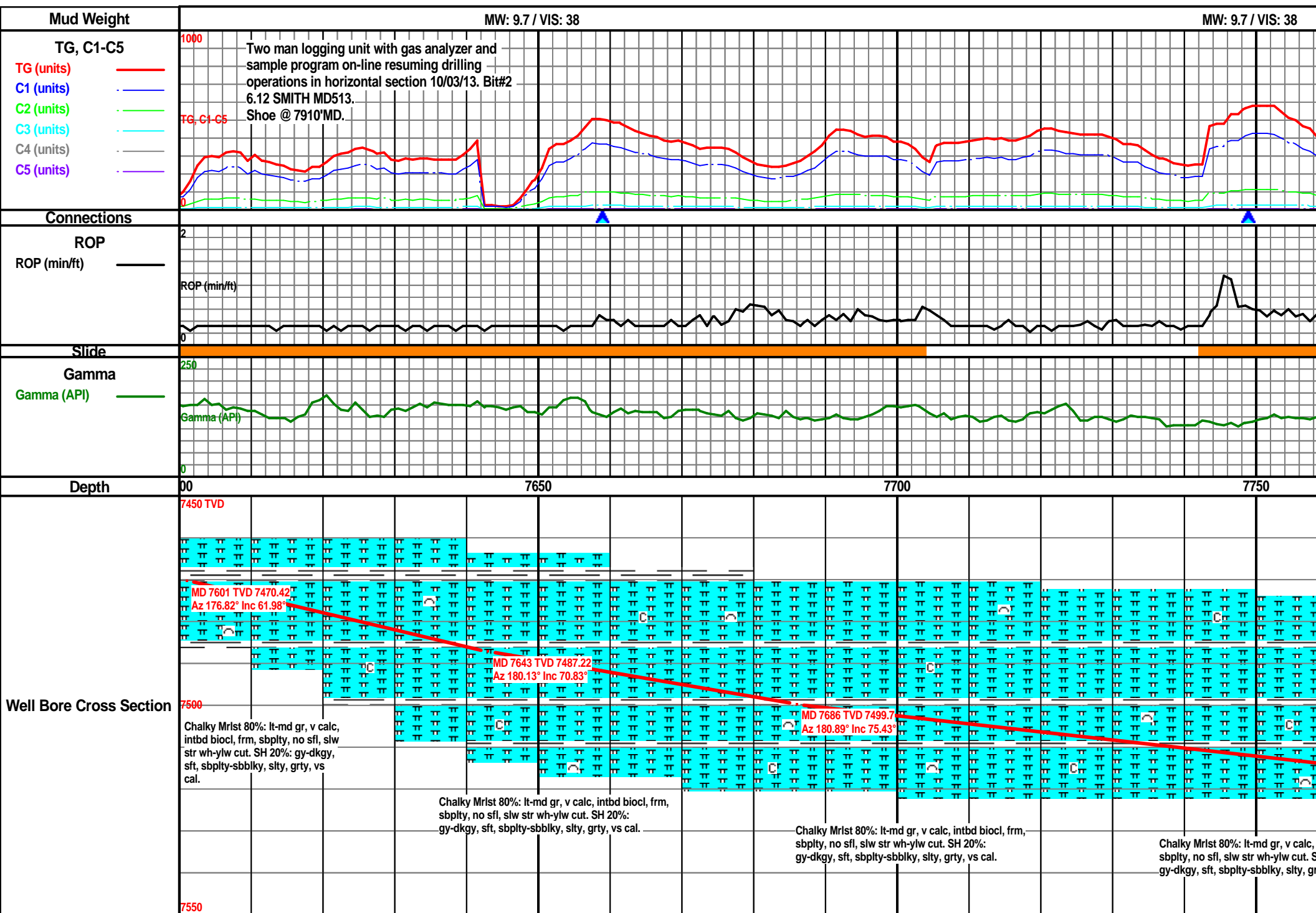
 Ques  
 Dead

**INTERVAL**

 Core  
 Dst

**EVENT**

 Rft  
 Connection



MW: 9.7 / VIS: 38

TD of 7910' MD achieved @  
12:55am 10/02/13. T.O.O.H. for  
intermediate casing.  
10/03/13 @ 4:40pm  
B.O.B.

1000

TG, C1-C5

0

RGP (min/ft)

0

250

Gamma (API)

0

7800

7850

7900

7450 TVD

10/02-03/13 4:30am Depth @ 7910'MD

7500

MD 7771 TVD 7516.37  
Az 178.67° Inc 81.93°

MD 7814 TVD 7520.24  
Az 179.75° Inc 87.75°

MD 7850 TVD 7521.5  
Az 178.35° Inc 88.24°

intbd bic  
ty,

Chalky Mrlst 80%: lt-md gr, v calc, intbd biocl, frm,  
sbply, no sfl, slw str wh-ylw cut. SH 20%:  
gy-dkgy, sft, sbply-sbbkly, slty, grty, vs cal.

Chalky Mrlst 80%: lt-md gr, v calc, intbd biocl, frm,  
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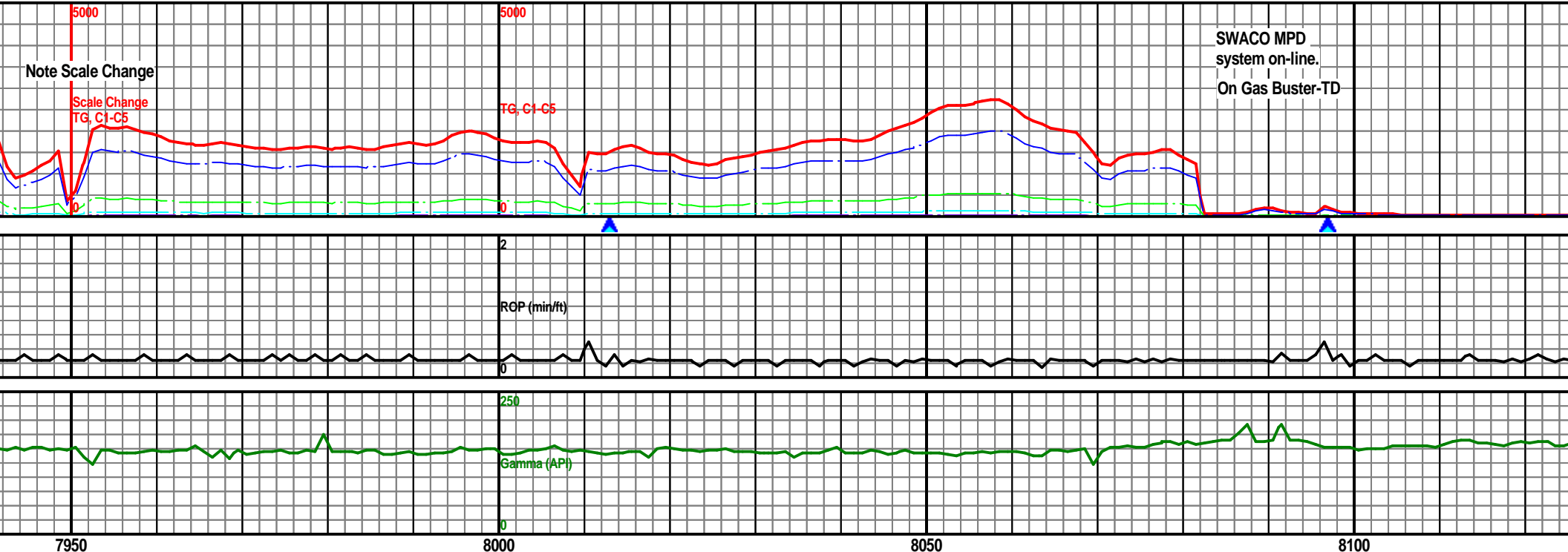
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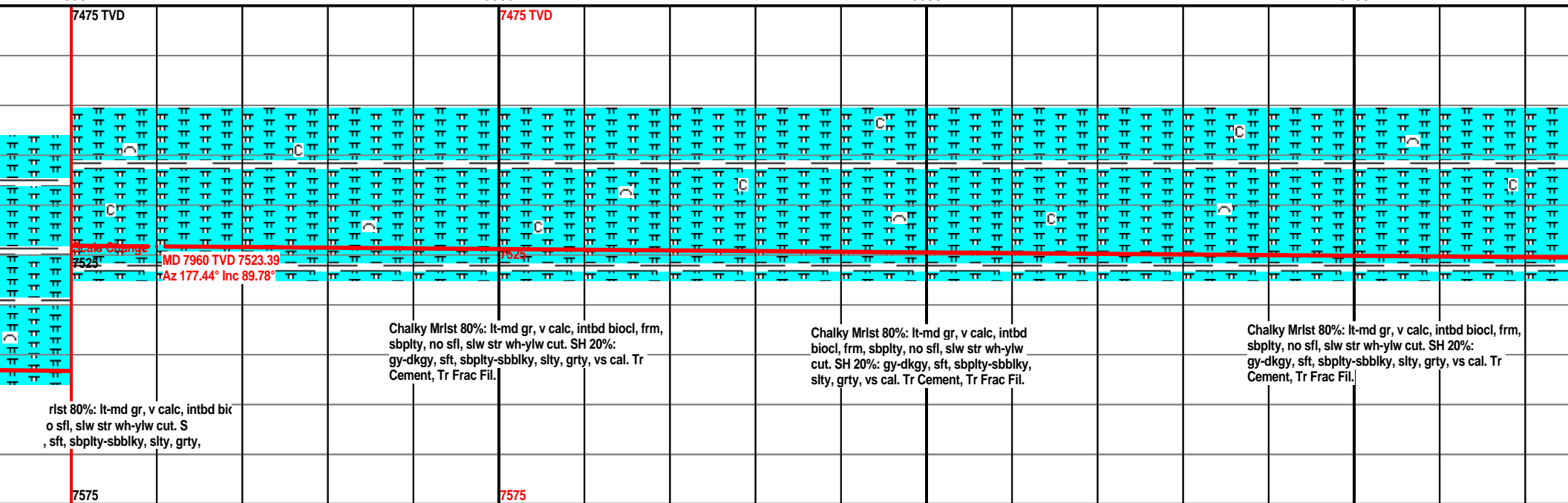
7550

MW: 9.0 / VIS: 39

MW: 9.0 / VIS: 39

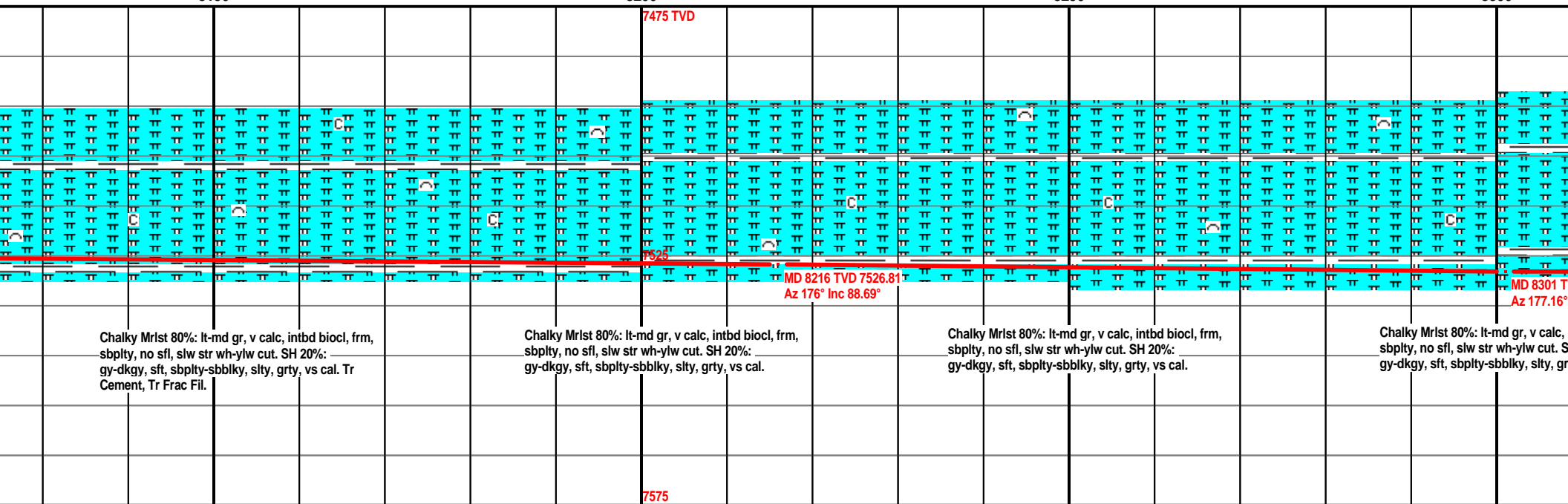
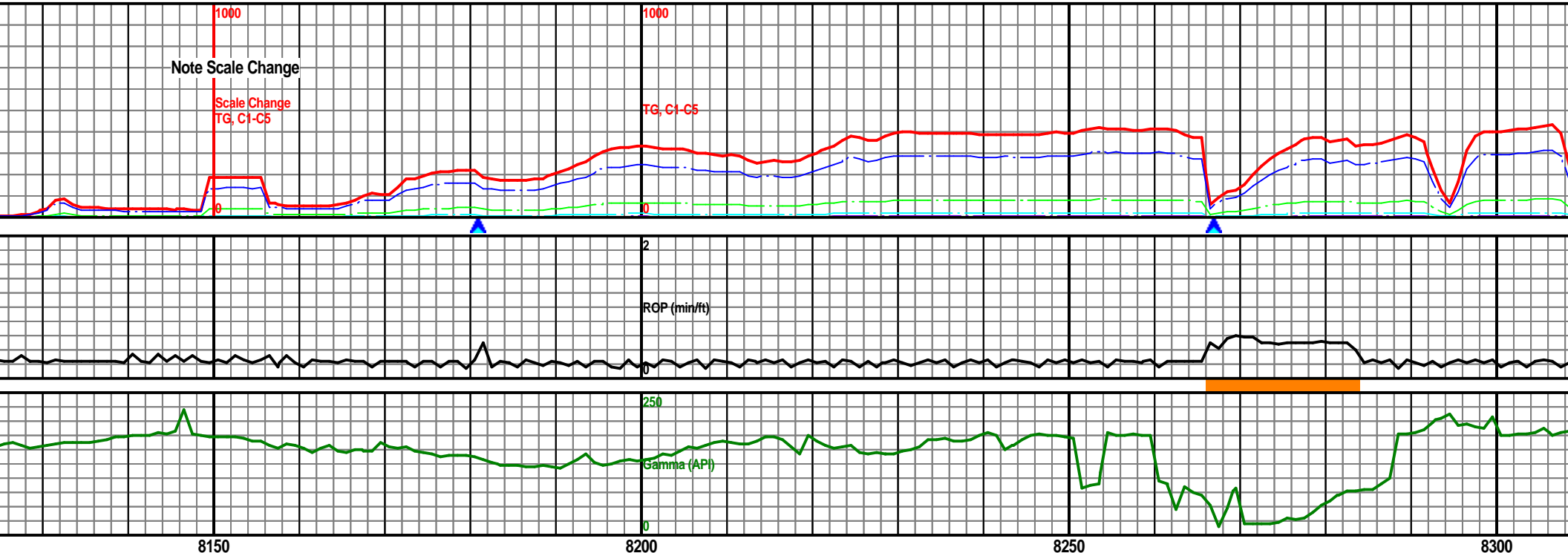


SWACO MPD  
system on-line.  
On Gas Buster-TD



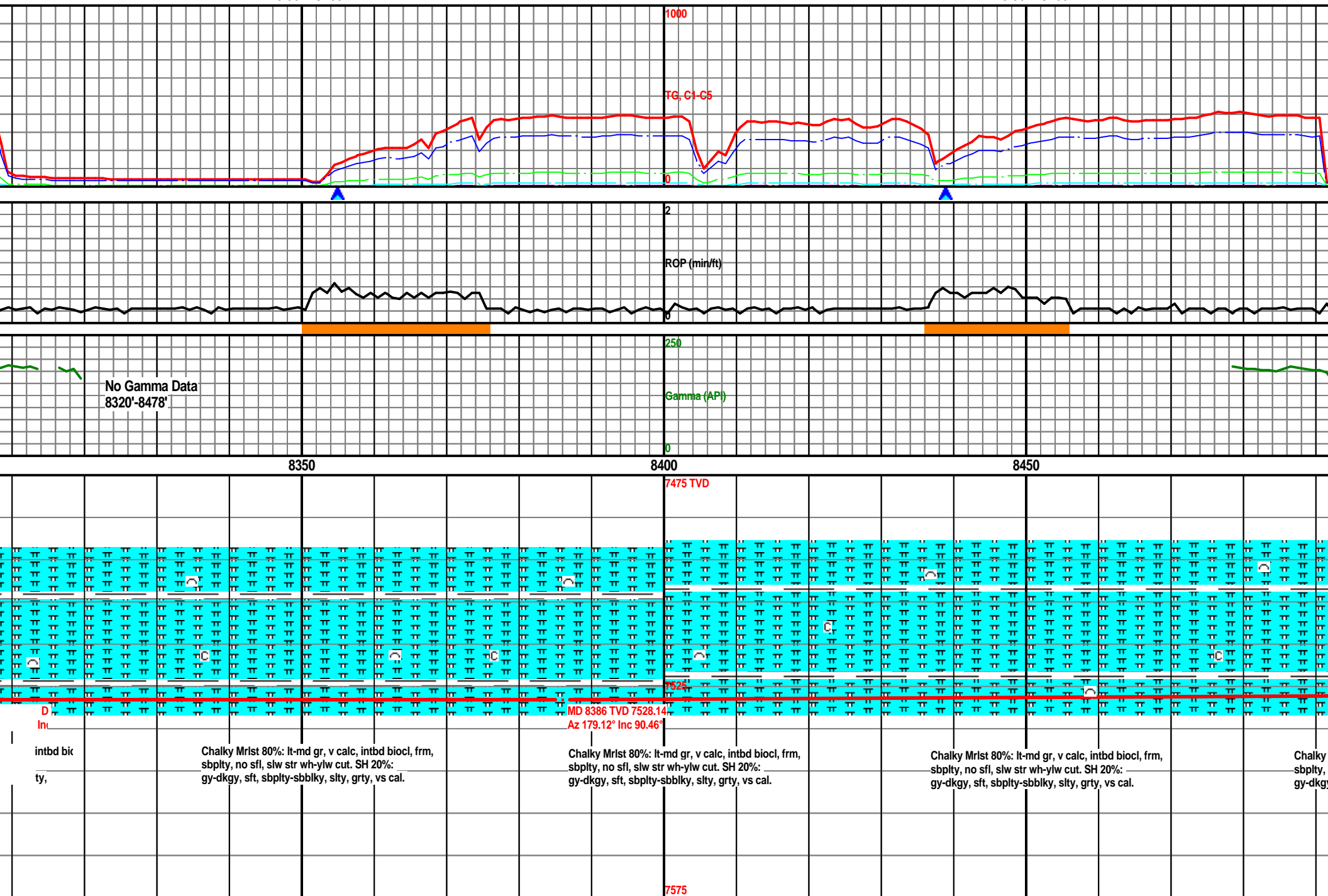
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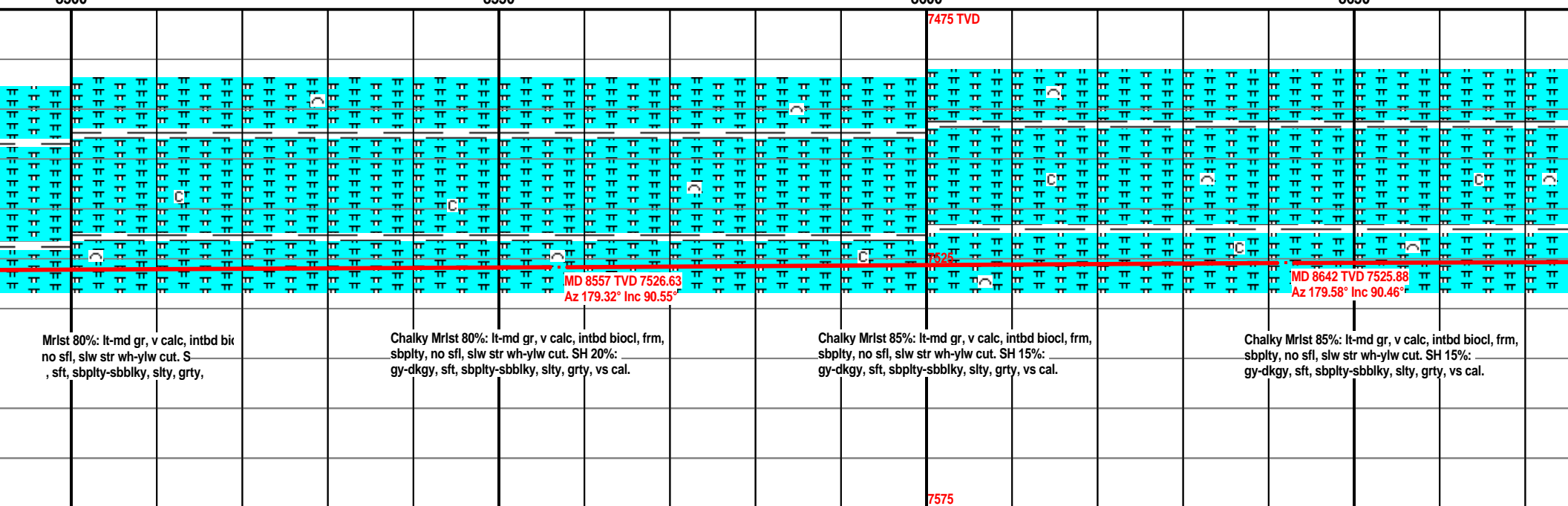
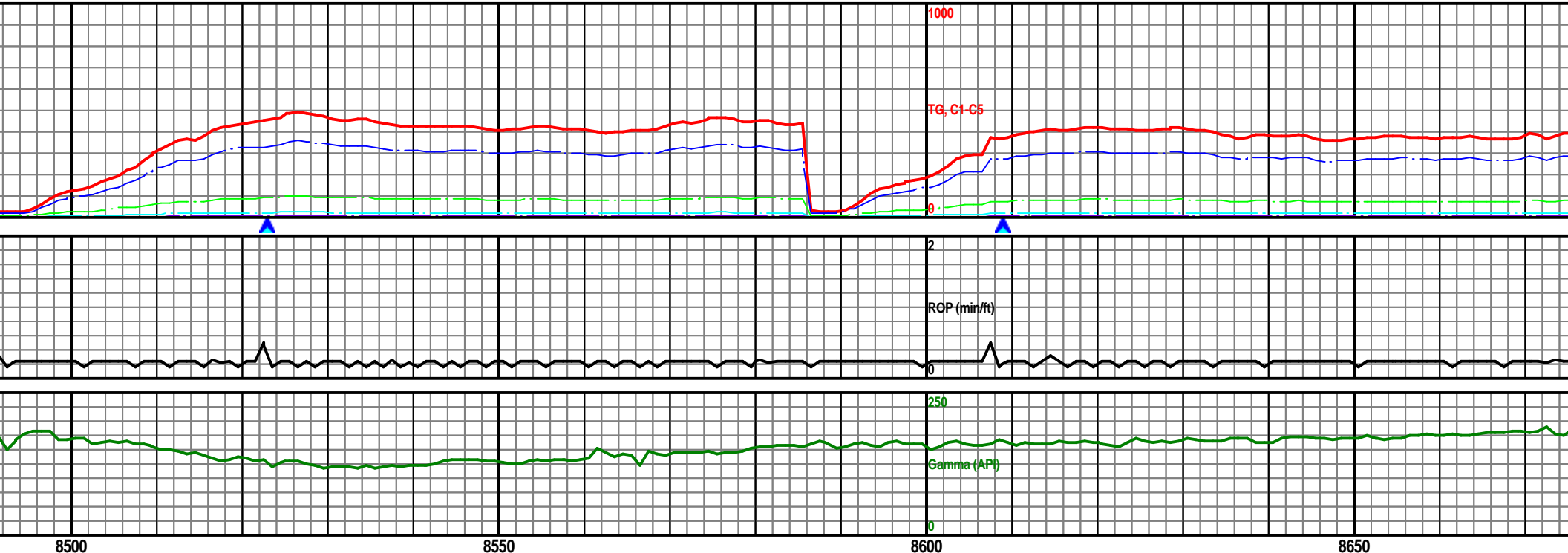
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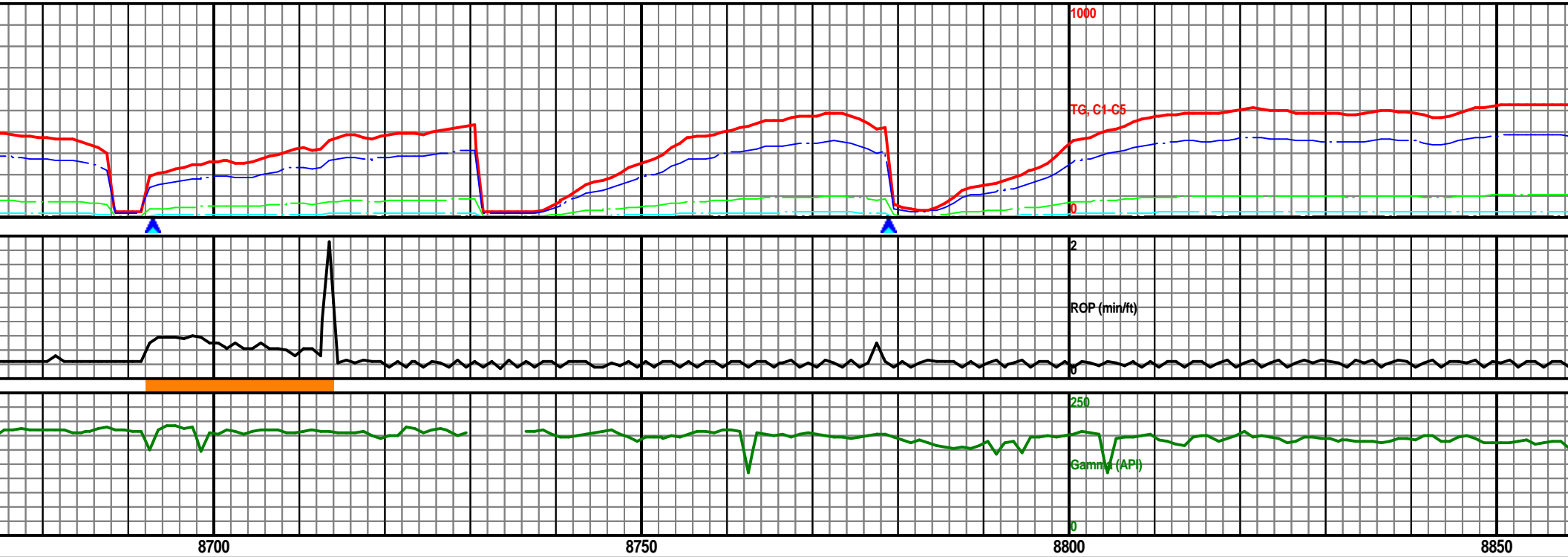
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MW: 8.95 / VIS: 42

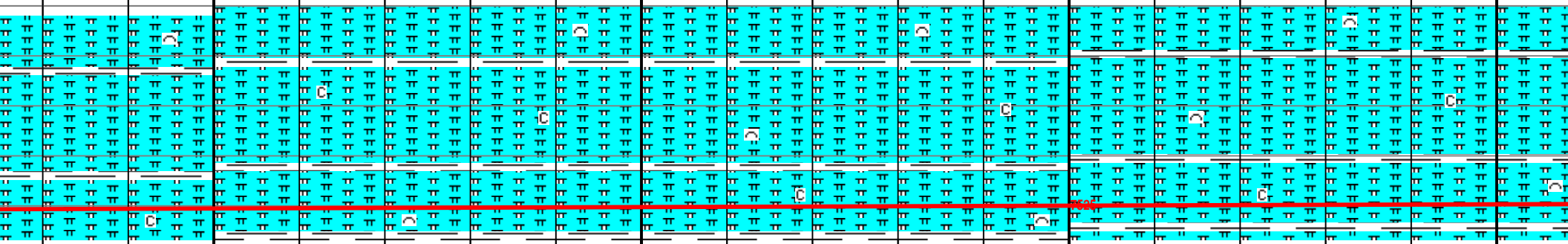


MW: 8.95 / VIS: 42

MW: 8.95 / VIS: 42



7475 TVD



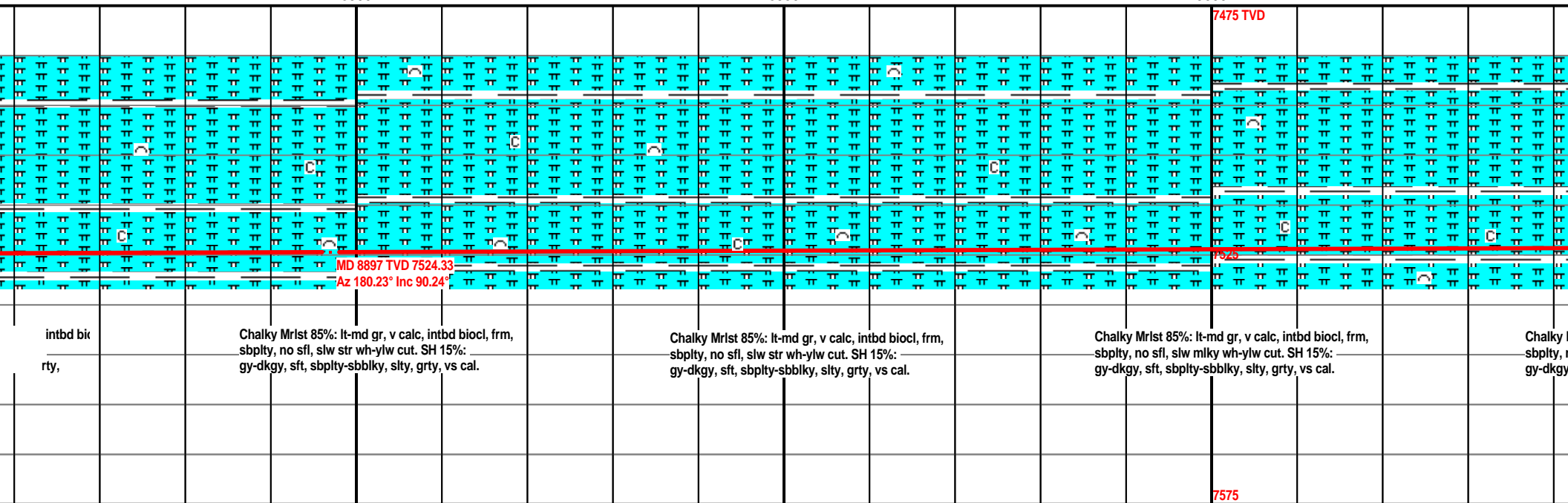
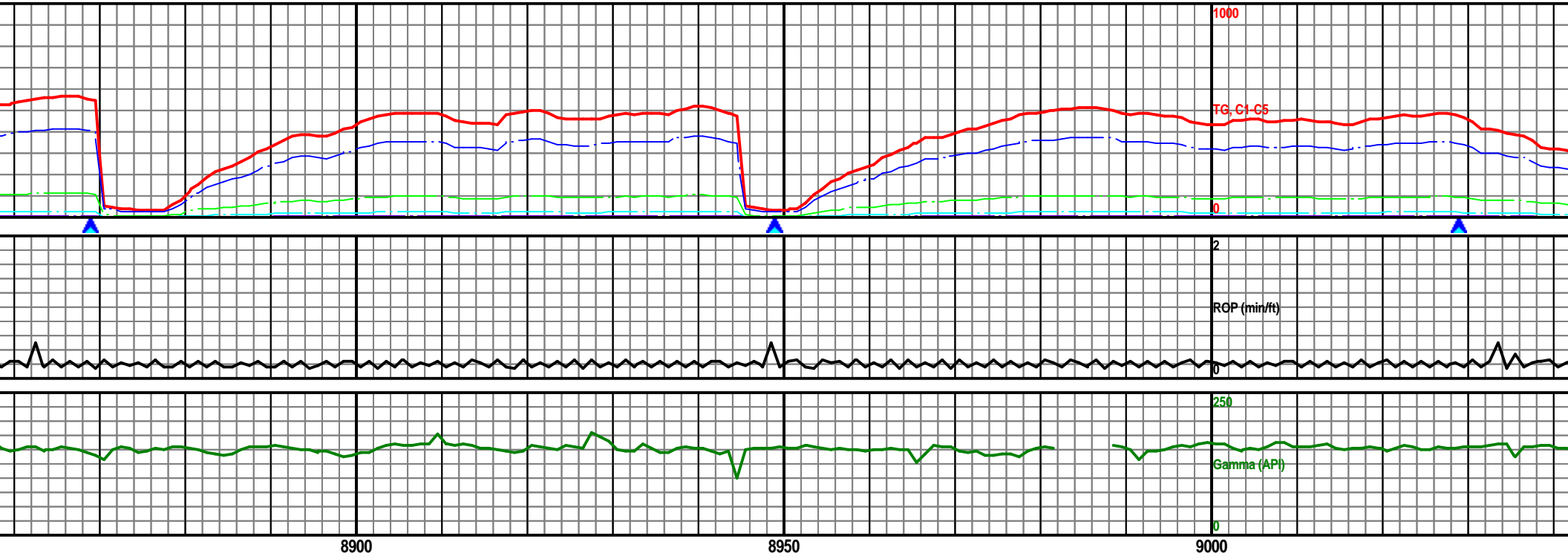
Chalky Mrlst 85%: lt-md gr, v calc, intbd biocl, frm,  
sbplty, no sfl, slw str wh-ylw cut. SH 15%:  
gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal.

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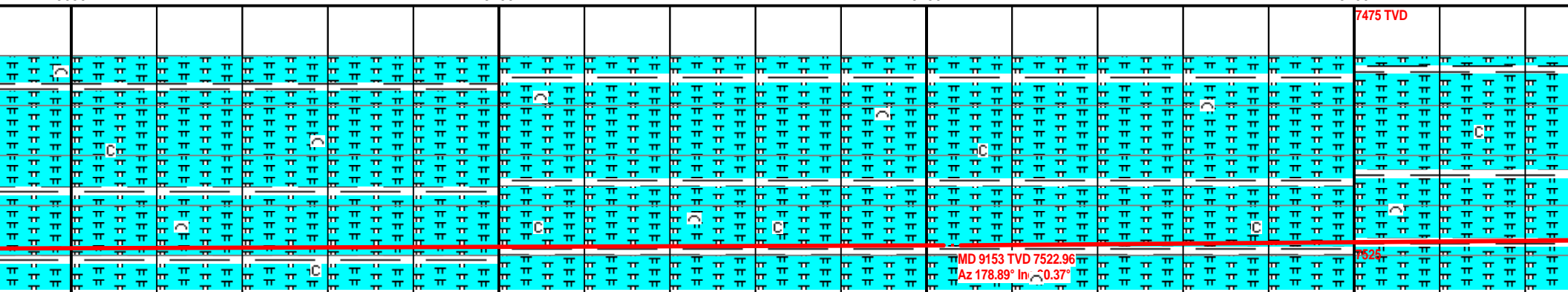
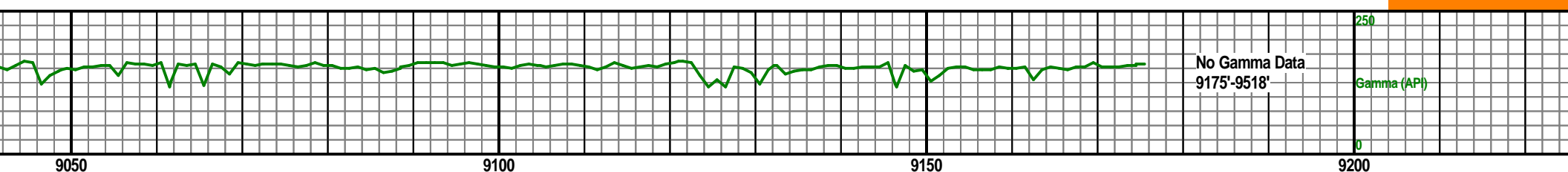
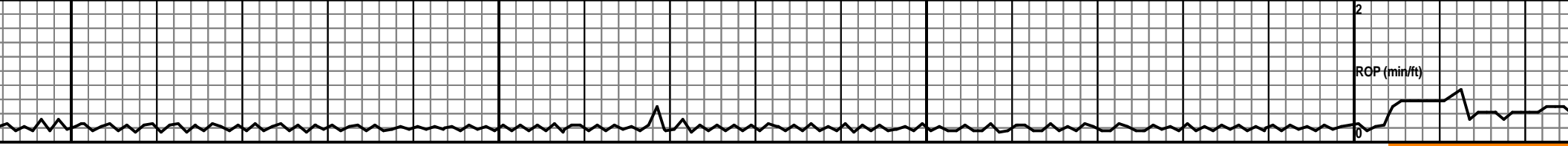
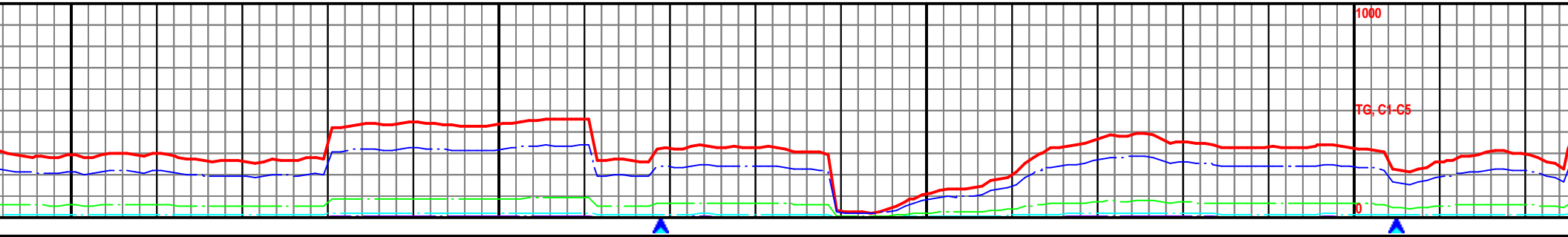
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7575



MW: 8.95 / VIS: 42



rlst 85%: lt-md gr, v calc, intbd bic  
o sfl, slw mlky wh-ylw cut. S  
, sft, sbply-sbbiky, slty, grty,

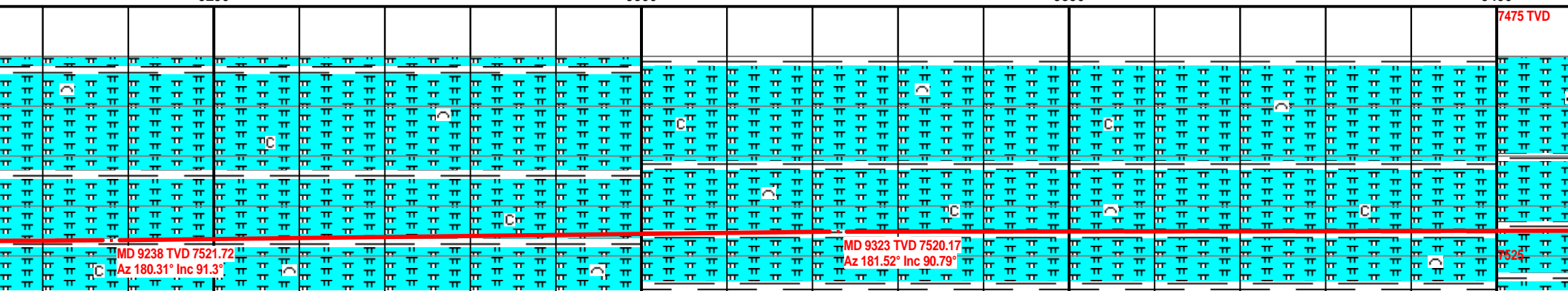
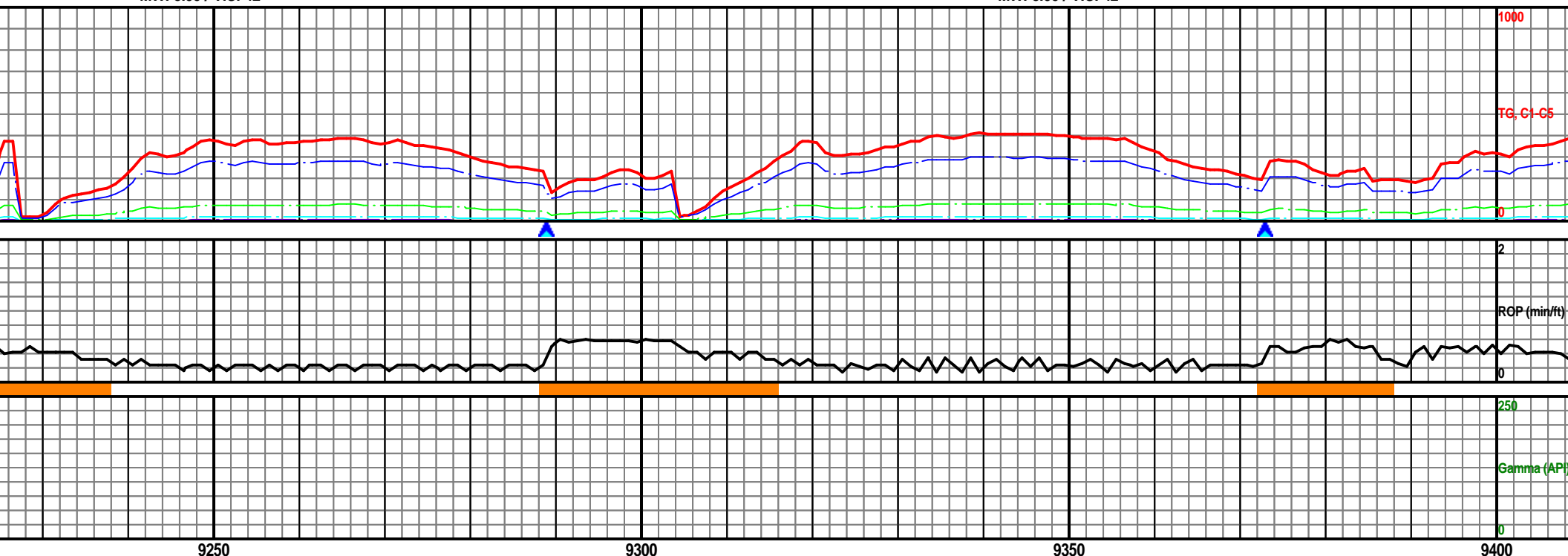
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MW: 8.95 / VIS: 42

MW: 8.95 / VIS: 42



Chalky Mrlst 85%: lt-md gr, v calc, intbd biocl, frm,  
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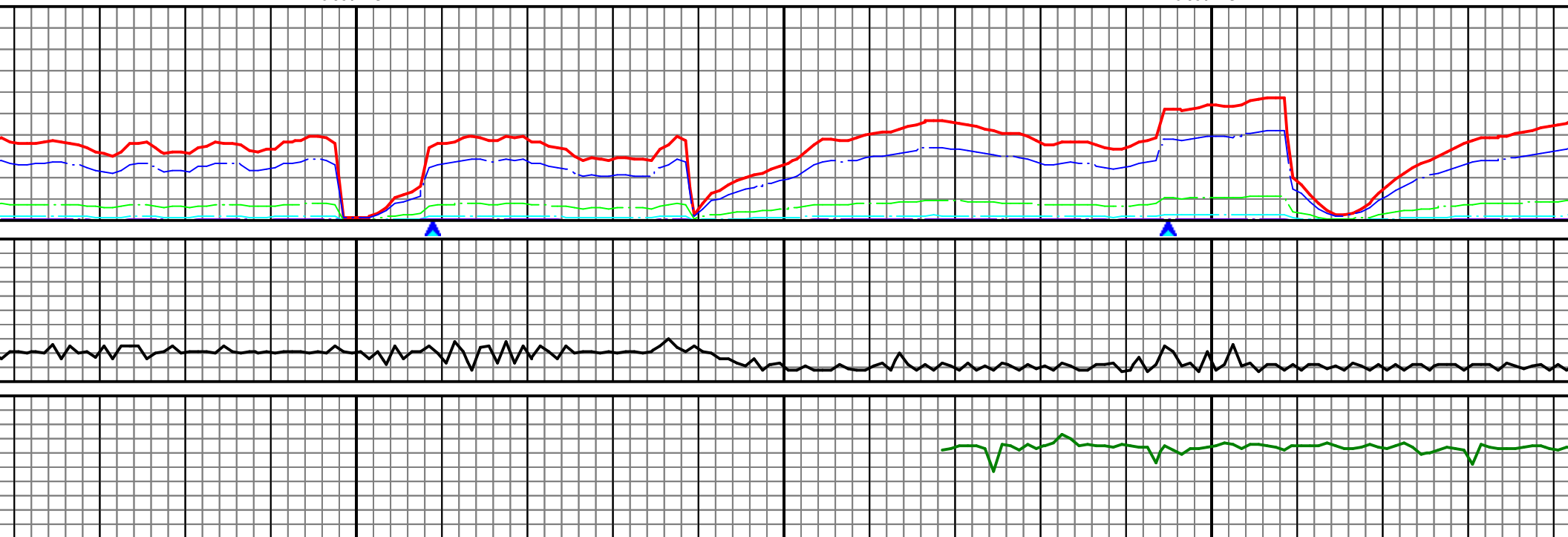
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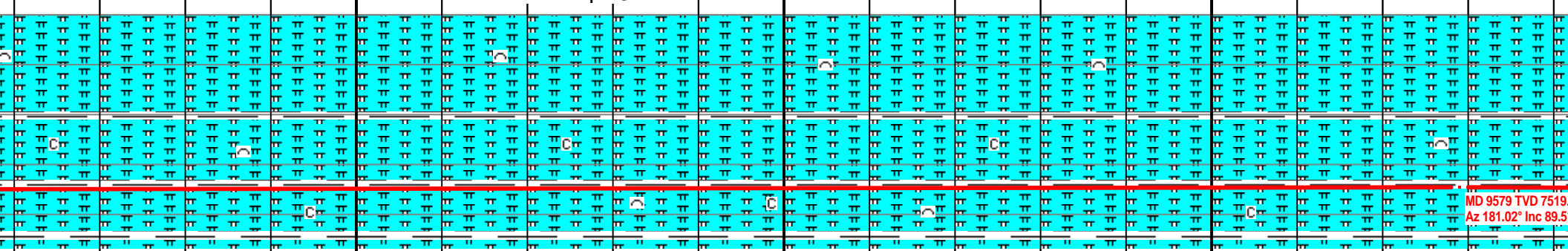


9450

9500

9550

10/04/13 4:30am Depth @ 9489'MD



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Chalky Mrlist 85%: lt-md gr, v calc, intbd biocl, frm,  
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gy-dkgy, sft, sbply-sbblky, slty, grty, vs cal.

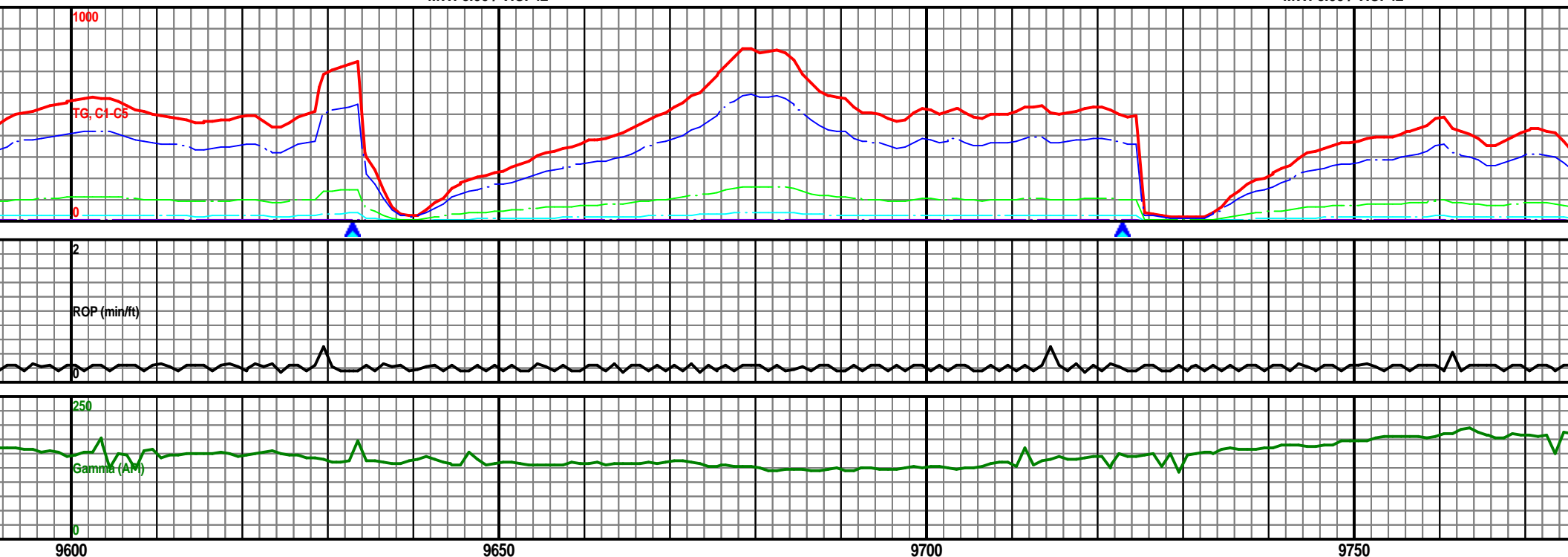
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Chalky Mrlist 85%: lt-md gr, v calc, intbd biocl, frm,  
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gy-dkgy, sft, sbply-sbblky, slty, grty, vs cal.

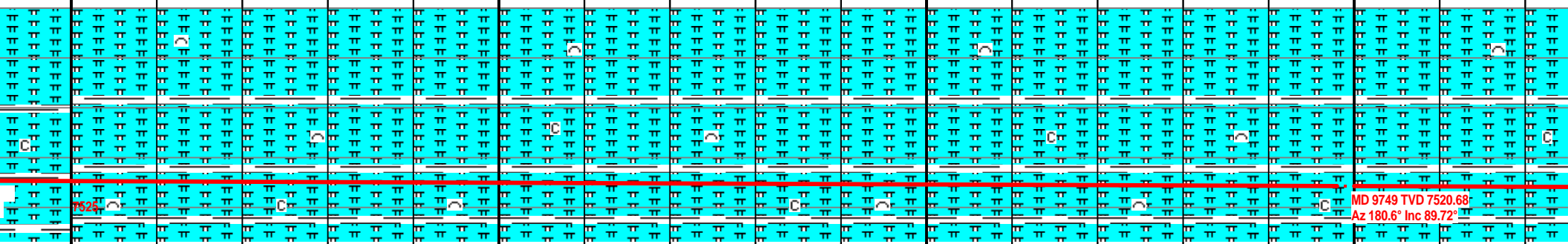
Chalky M  
sbply, n  
gy-dkgy

MW: 8.95 / VIS: 42

MW: 8.95 / VIS: 42



7475 TVD



rlst 85%: lt-md gr, v calc, intbd bik  
o sfl, slw mlky wh-ylw cut. S  
sft, sbplty-sbbiky, slty, grty,

Chalky Mrlst 85%: lt-md gr, v calc, intbd biocl, frm,  
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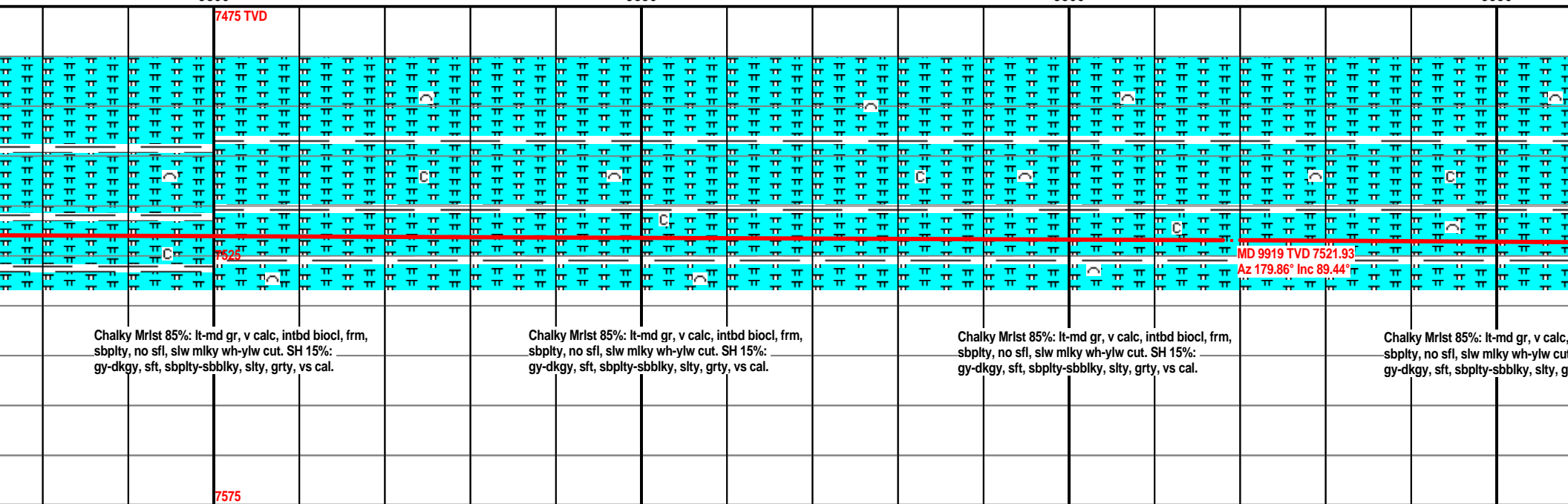
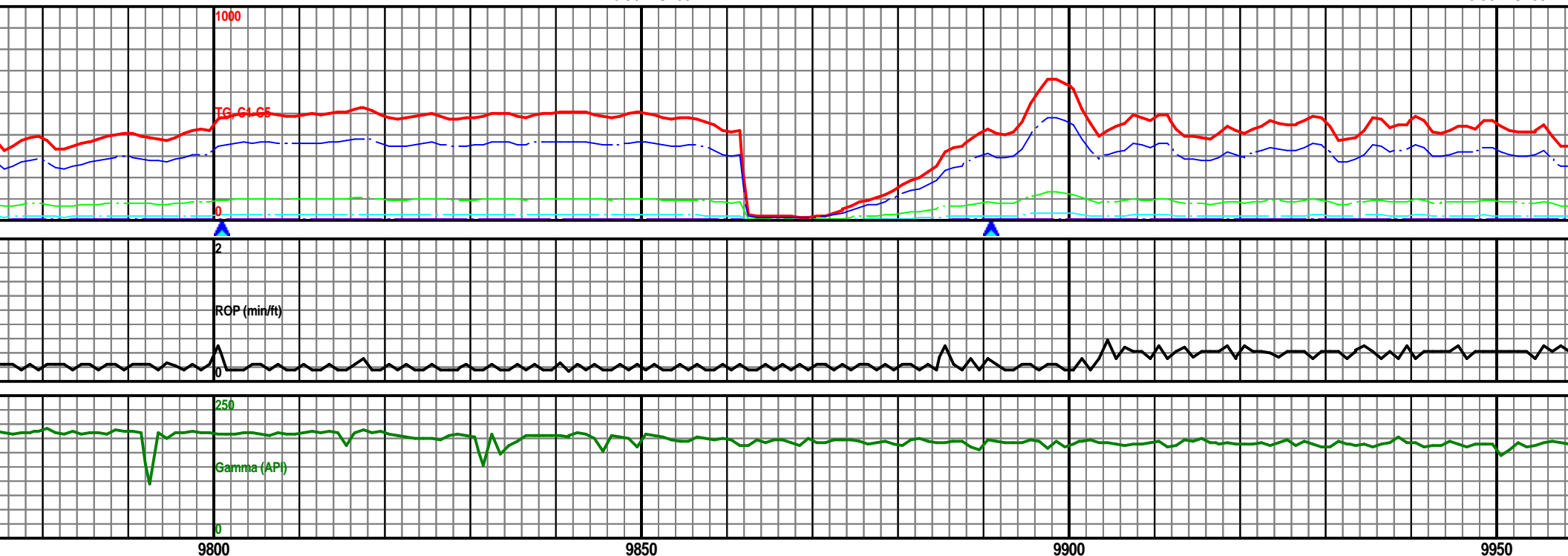
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7575

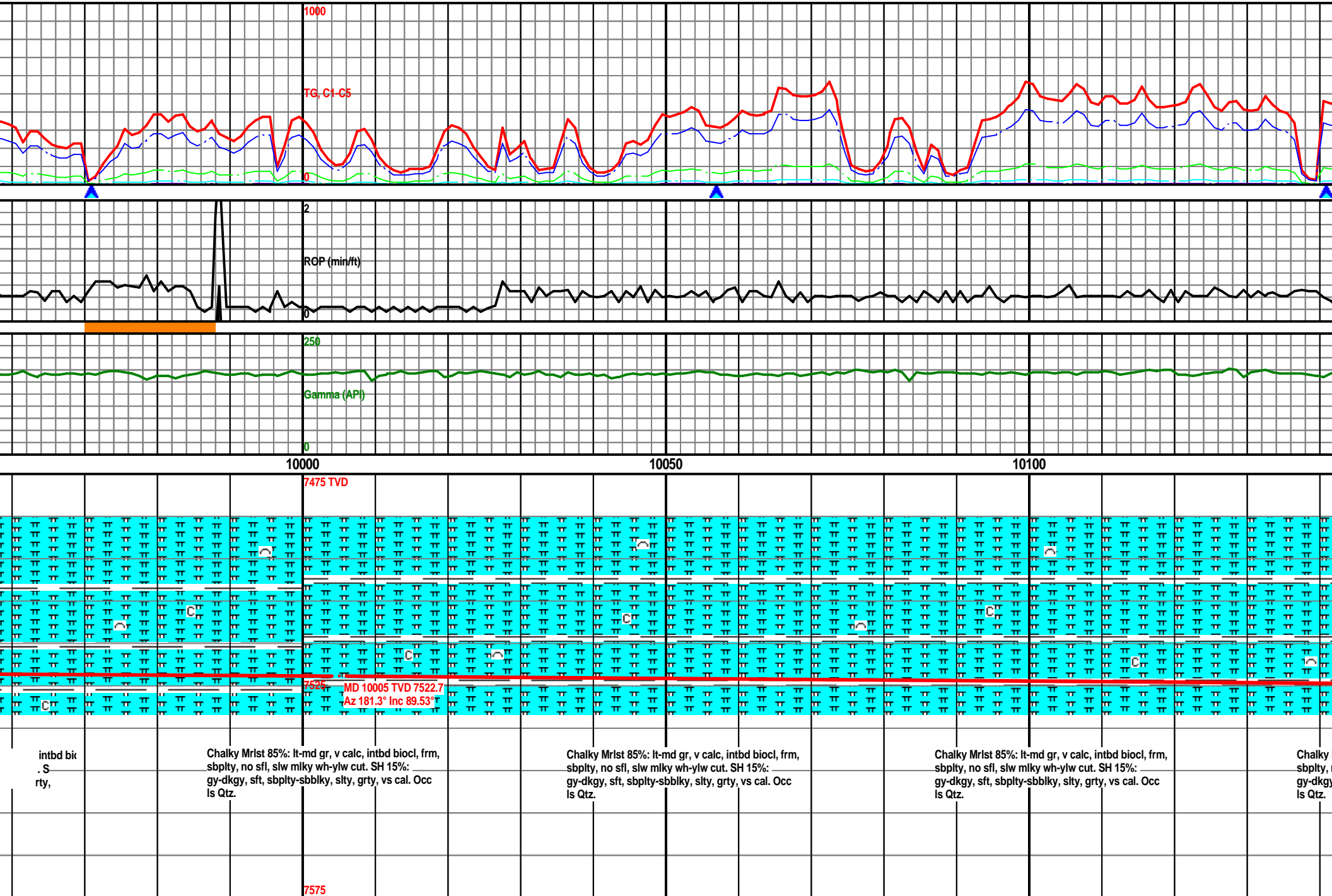
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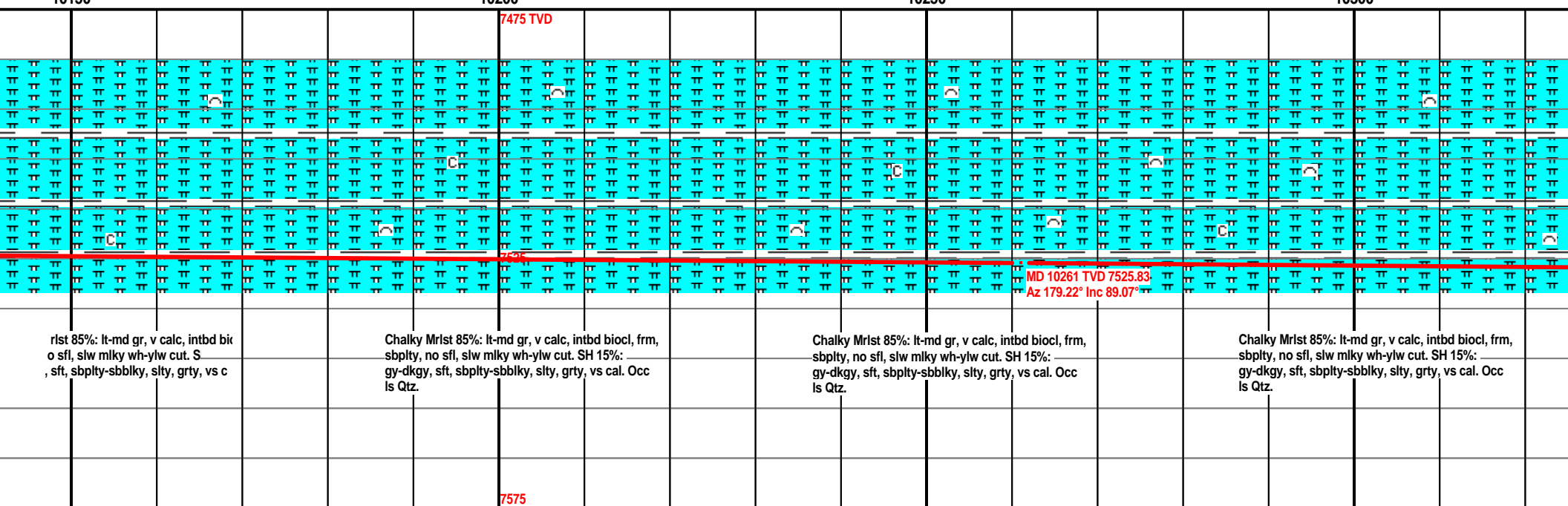
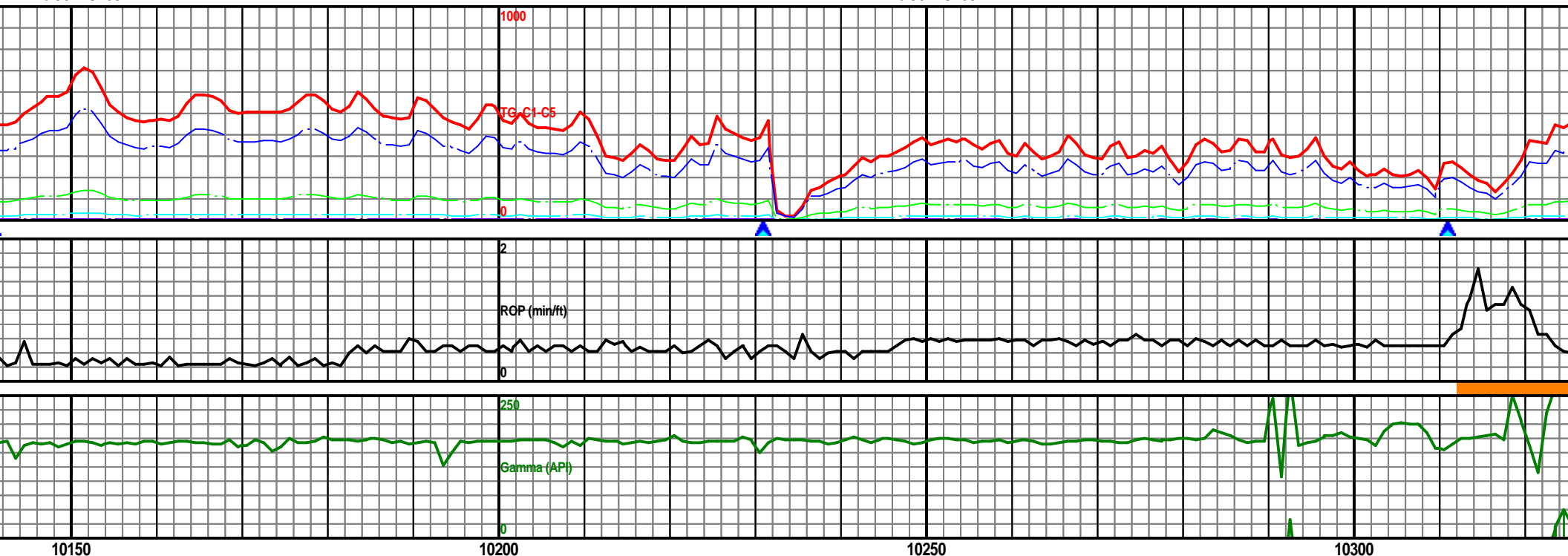


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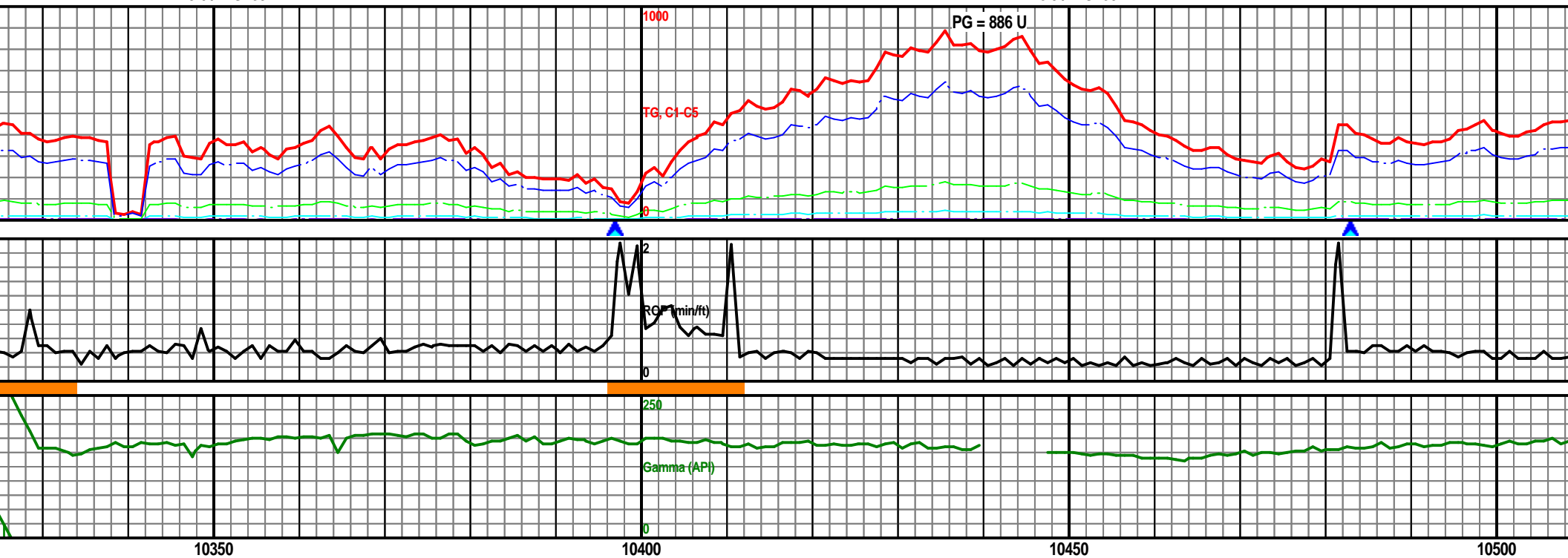
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MW: 8.9 / VIS: 39



MW: 9.0 / VIS: 39

MW: 8.9 / VIS: 39



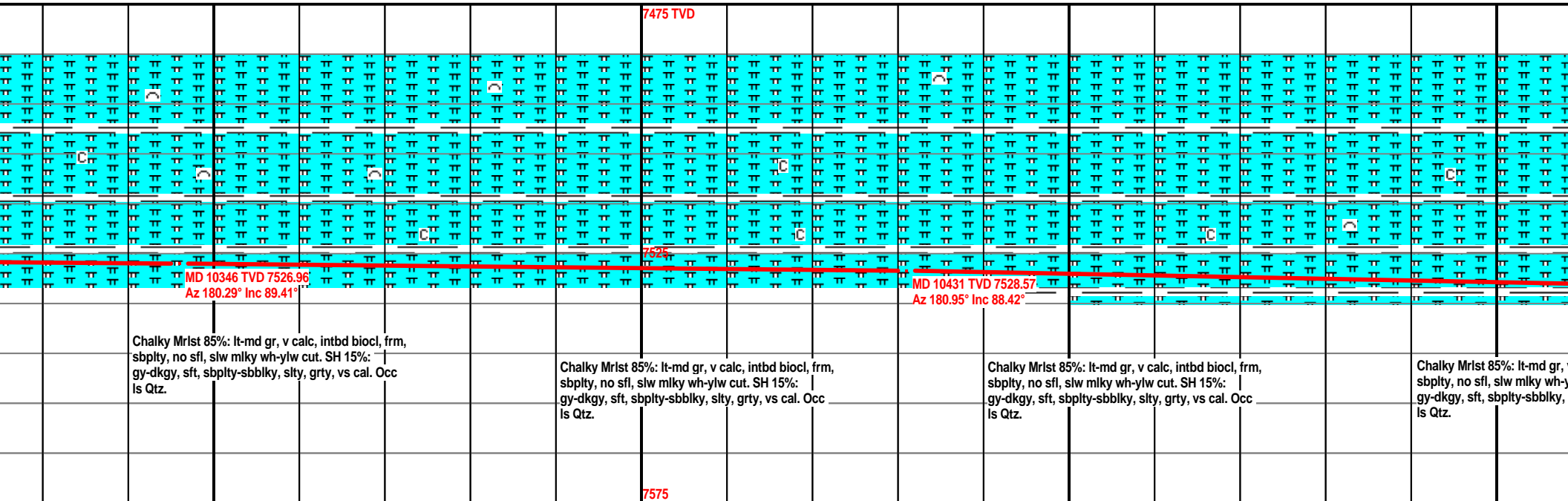
10350

10400

10450

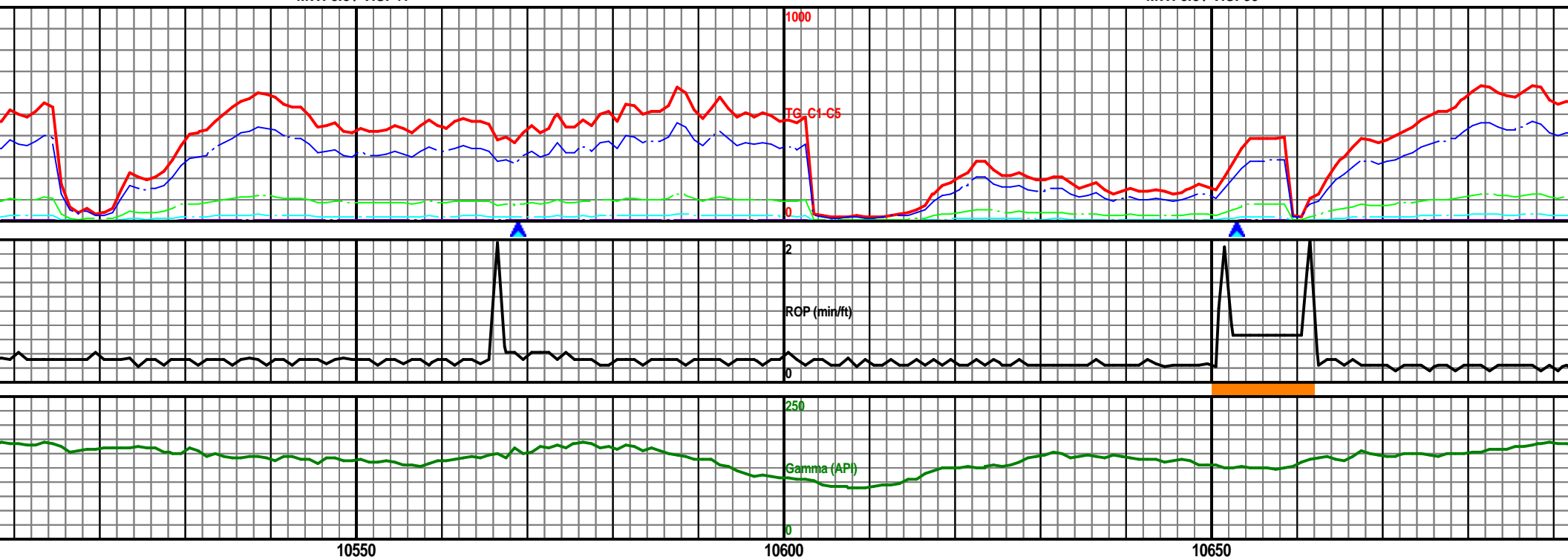
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7475 TVD



MW: 8.8 / VIS: 41

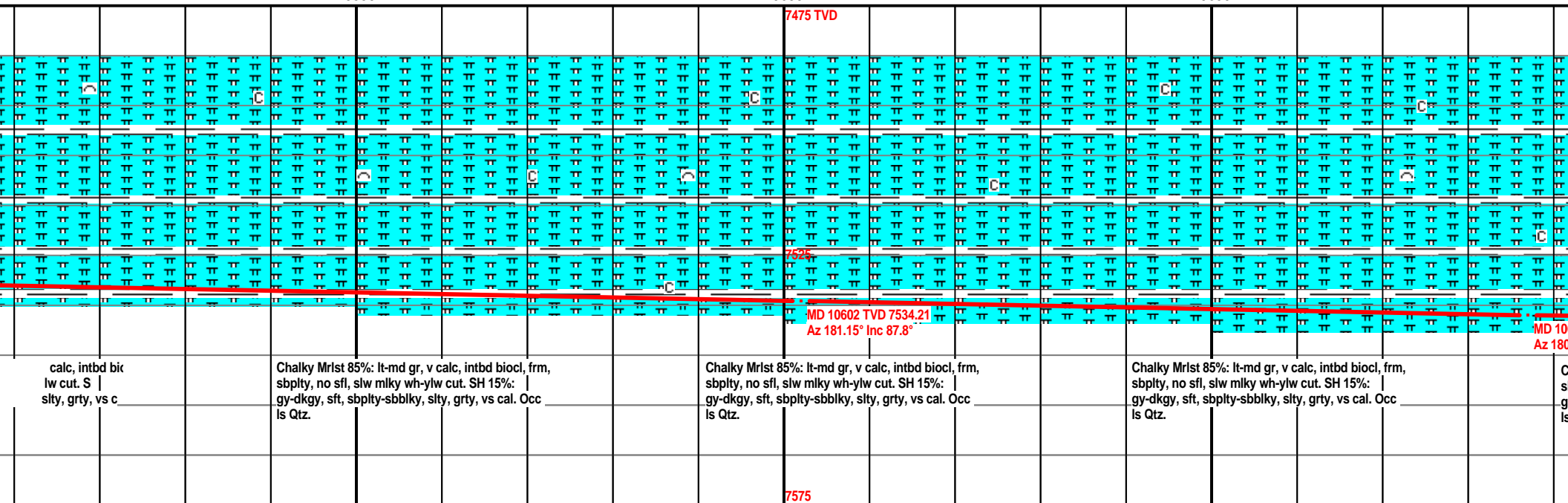
MW: 8.8 / VIS: 39



10550

10600

10650



calc, intbd bic  
lw cut. S  
slty, grty, vs c

Chalky Mrlst 85%: lt-md gr, v calc, intbd biocl, frm,  
sbpity, no sfl, slw mlky wh-y/w cut. SH 15%:  
gy-dkgy, sft, sbpity-sbbiky, slty, grty, vs cal. Occ  
ls Qtz.

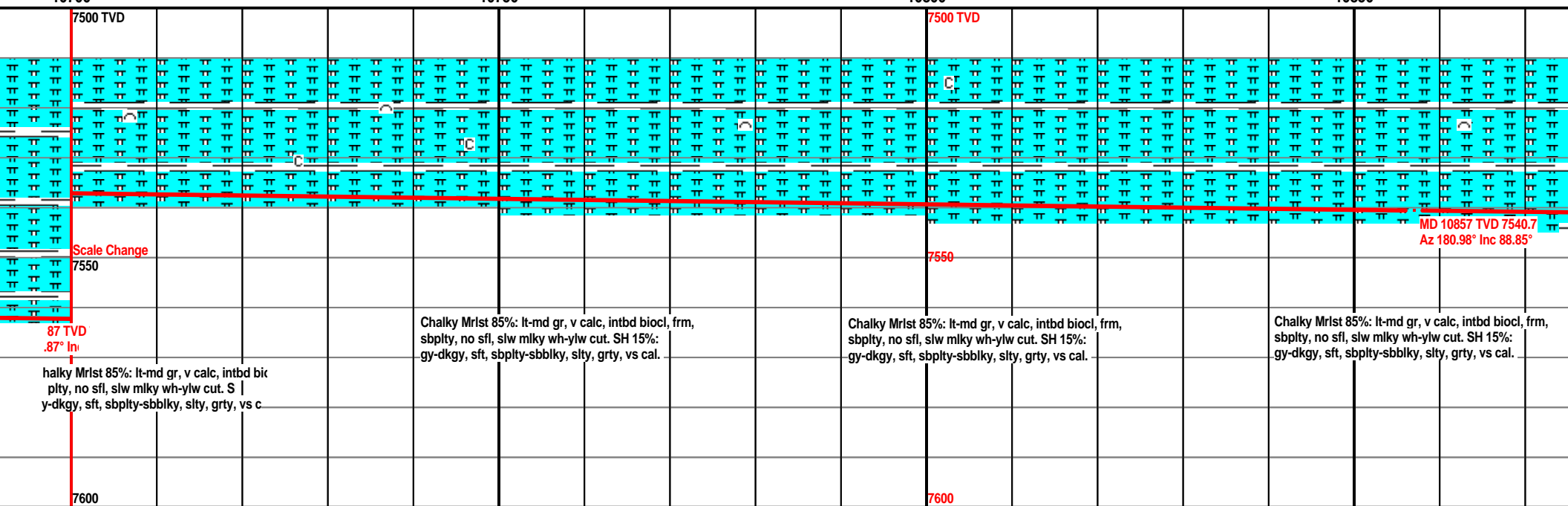
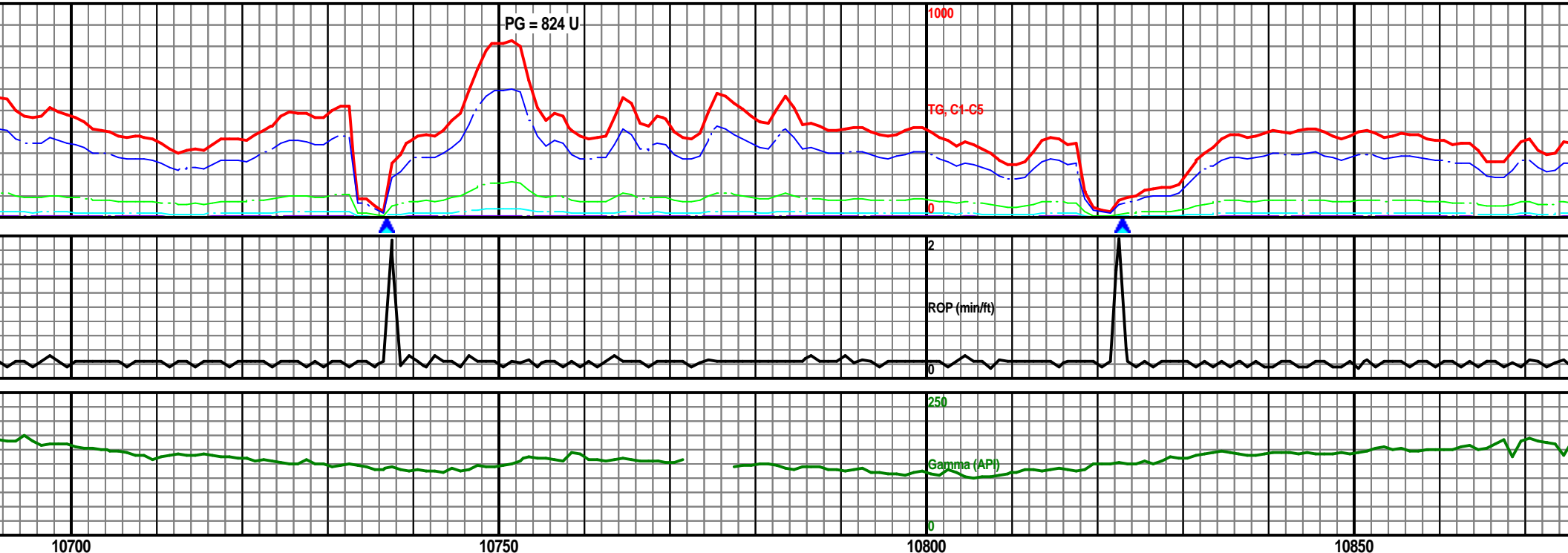
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ls Qtz.

Chalky Mrlst 85%: lt-md gr, v calc, intbd biocl, frm,  
sbpity, no sfl, slw mlky wh-y/w cut. SH 15%:  
gy-dkgy, sft, sbpity-sbbiky, slty, grty, vs cal. Occ  
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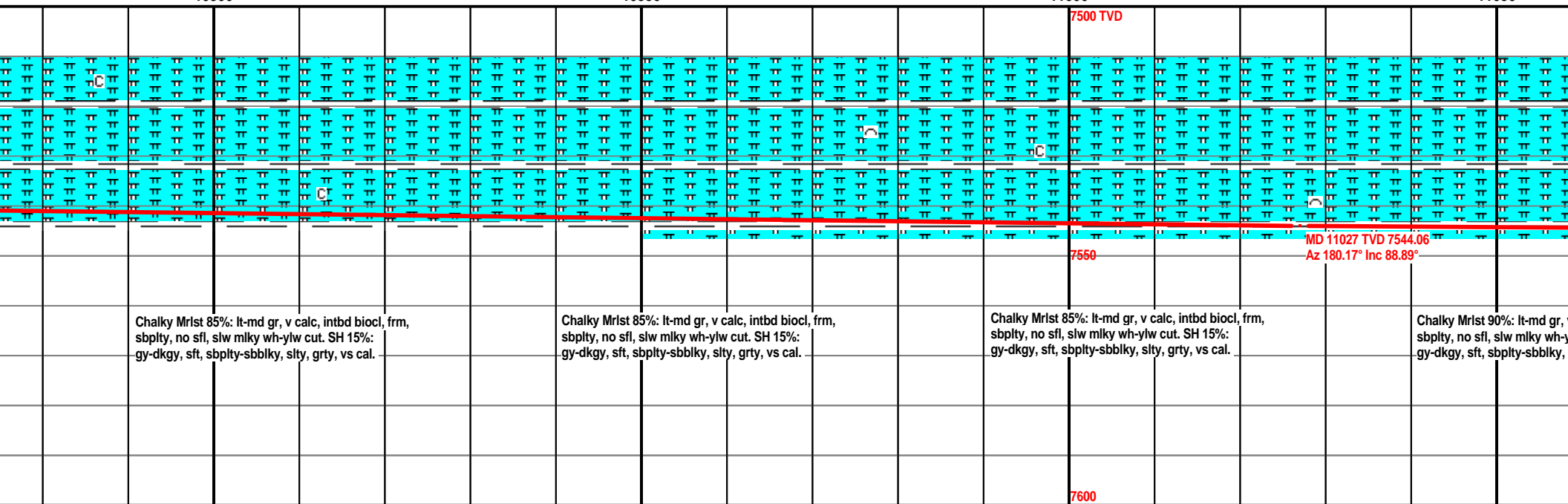
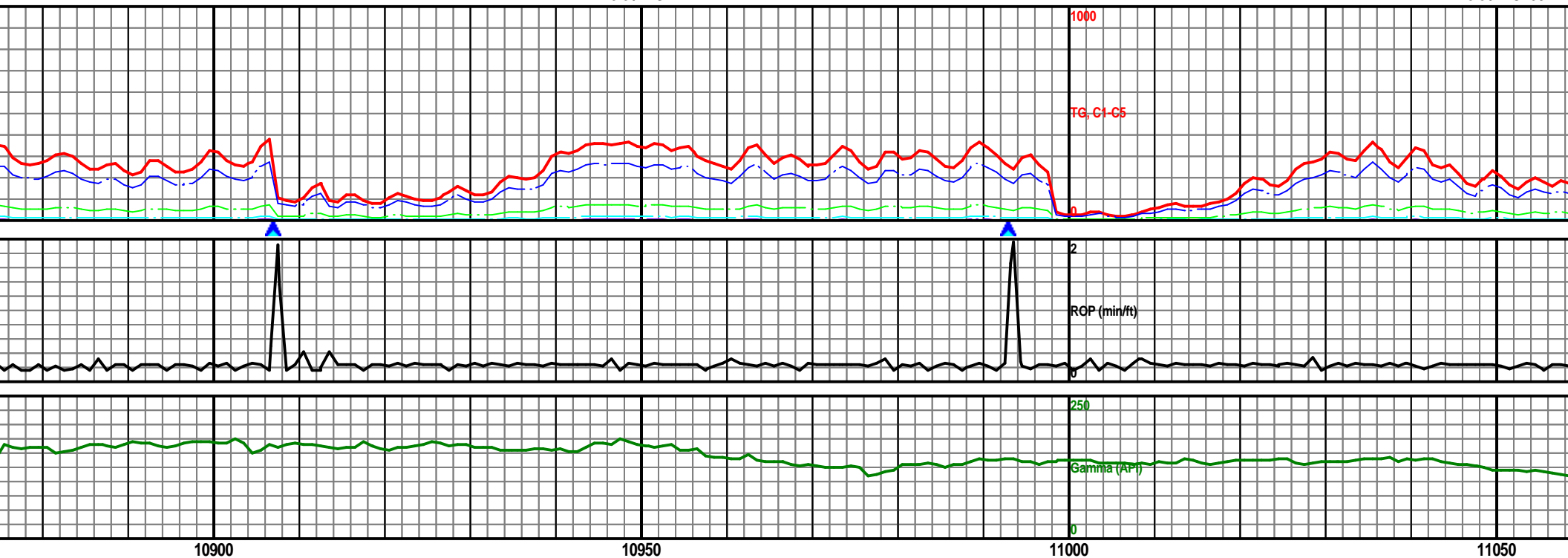
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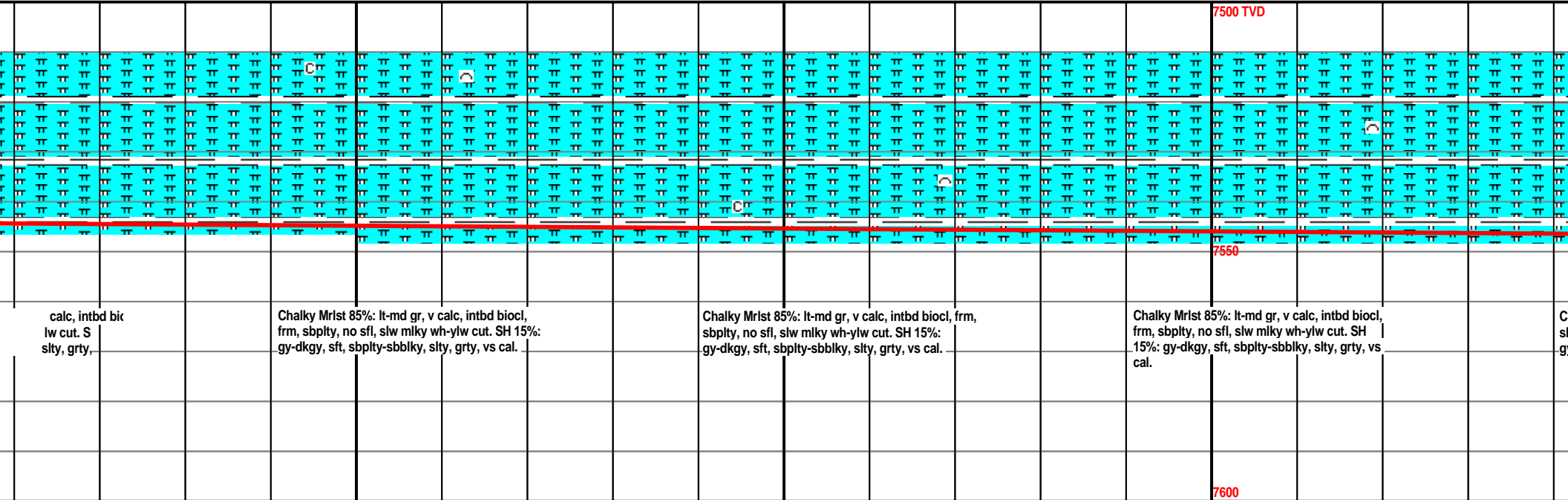
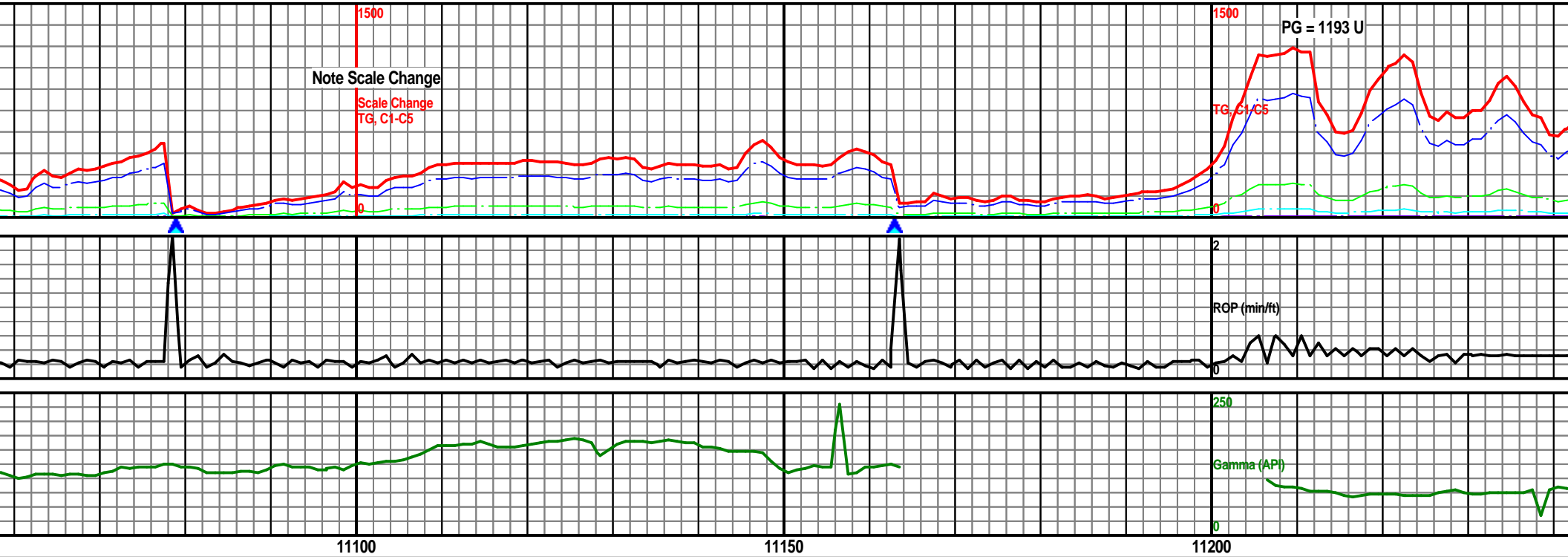


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MW: 8.8 / VIS: 39

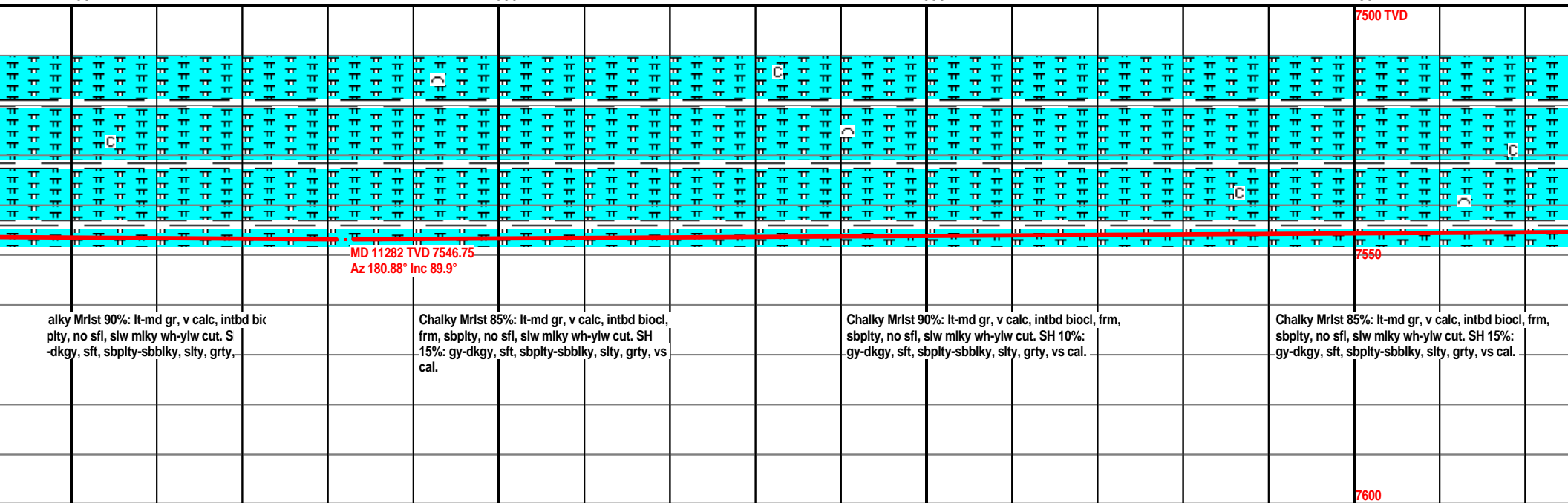
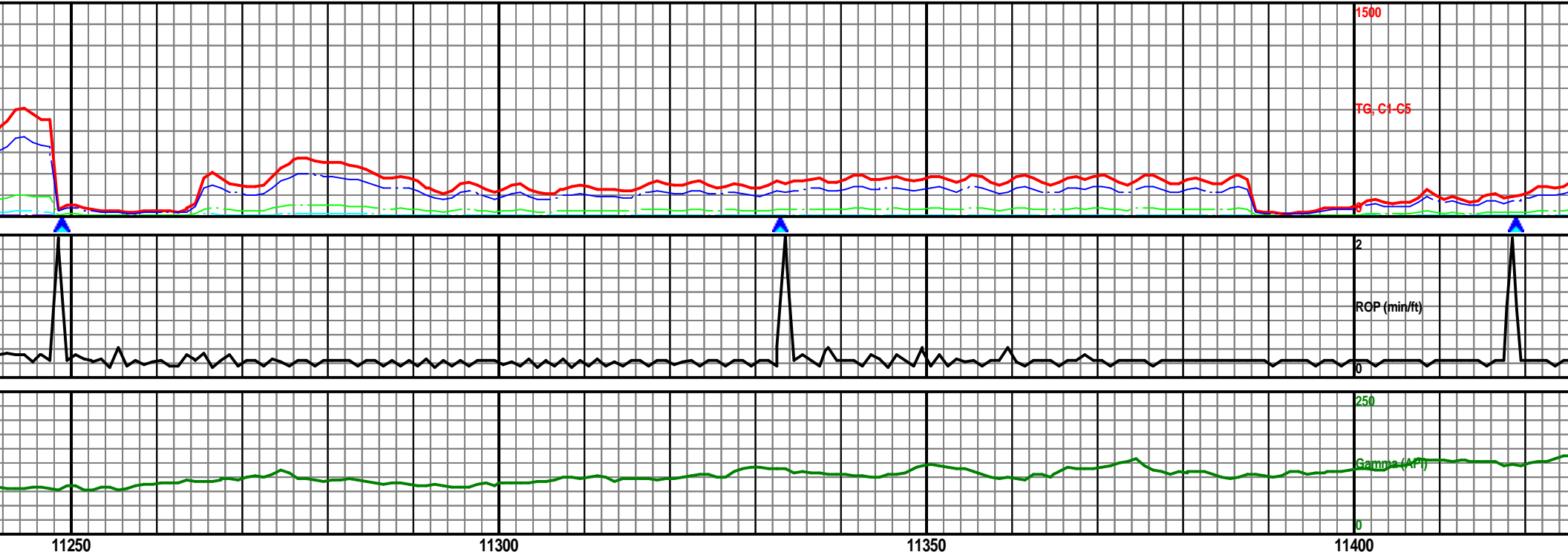


MW: 8.8 / VIS: 39



MW: 8.8 / VIS: 39

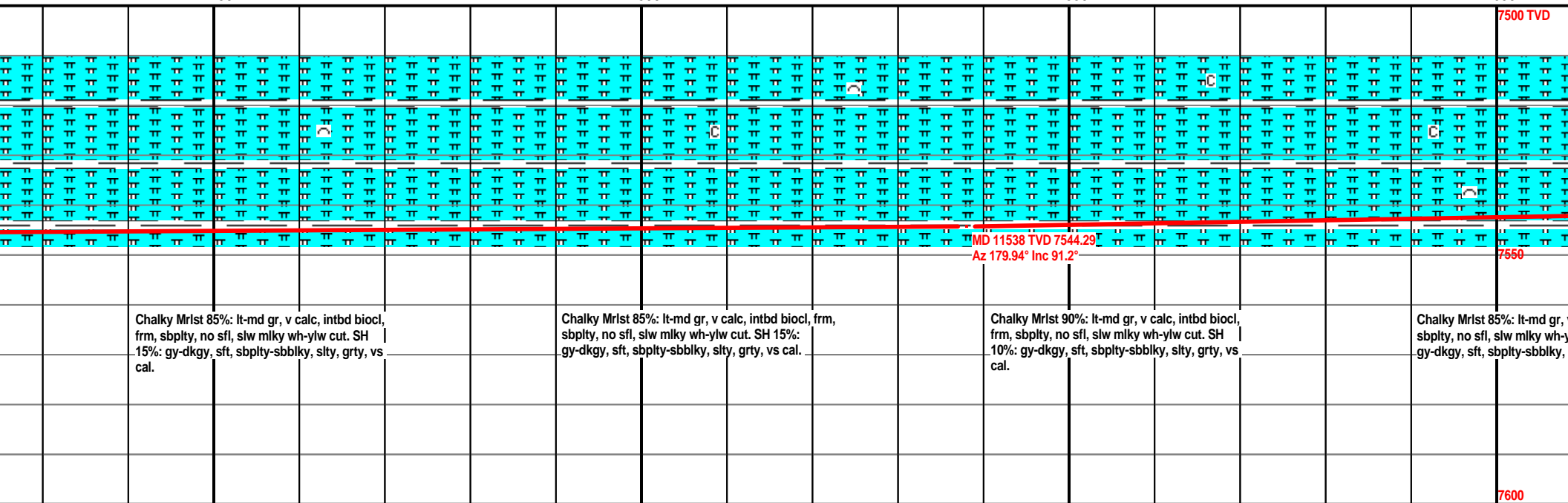
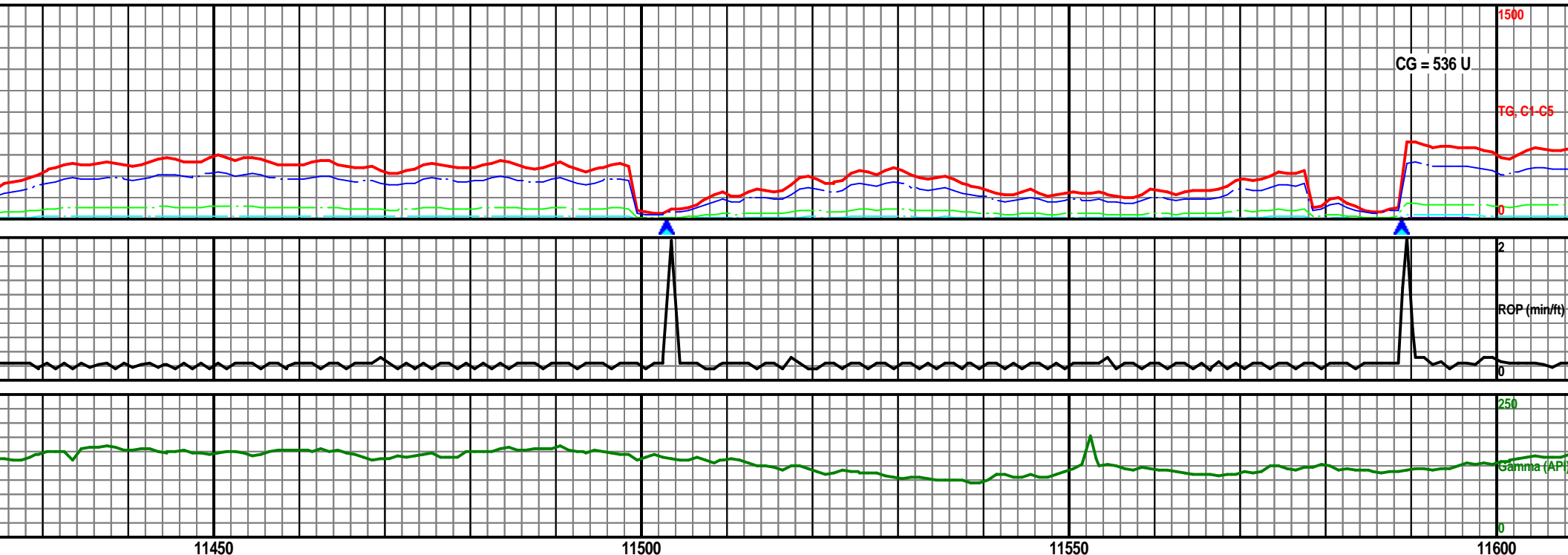
MW: 8.9 / VIS: 41





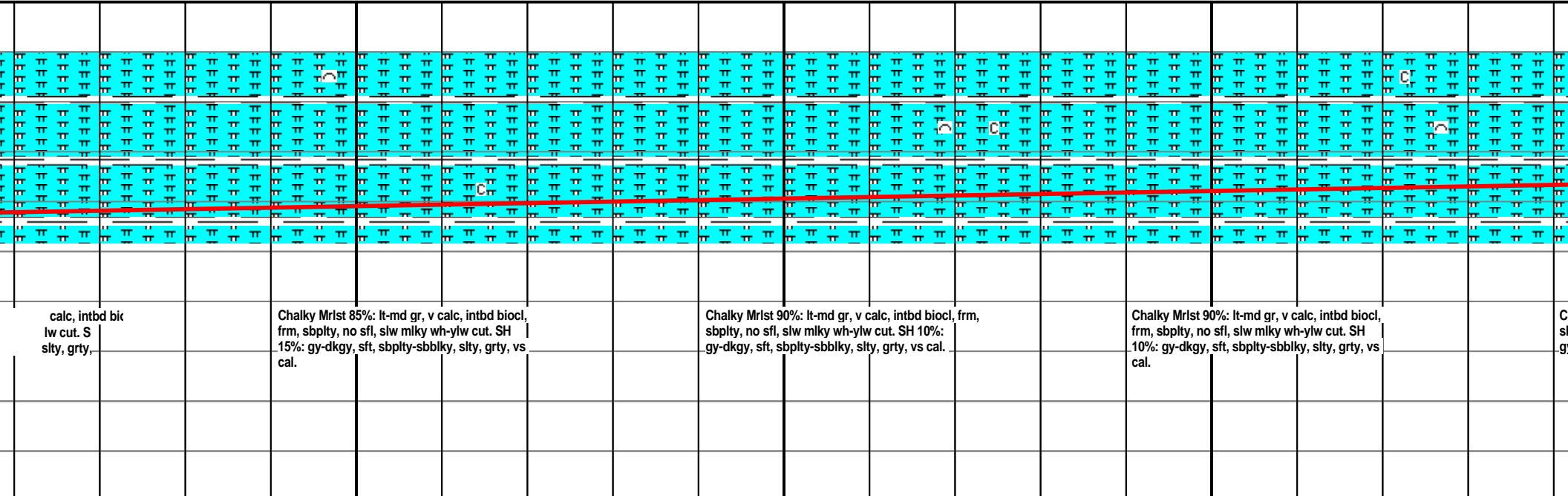
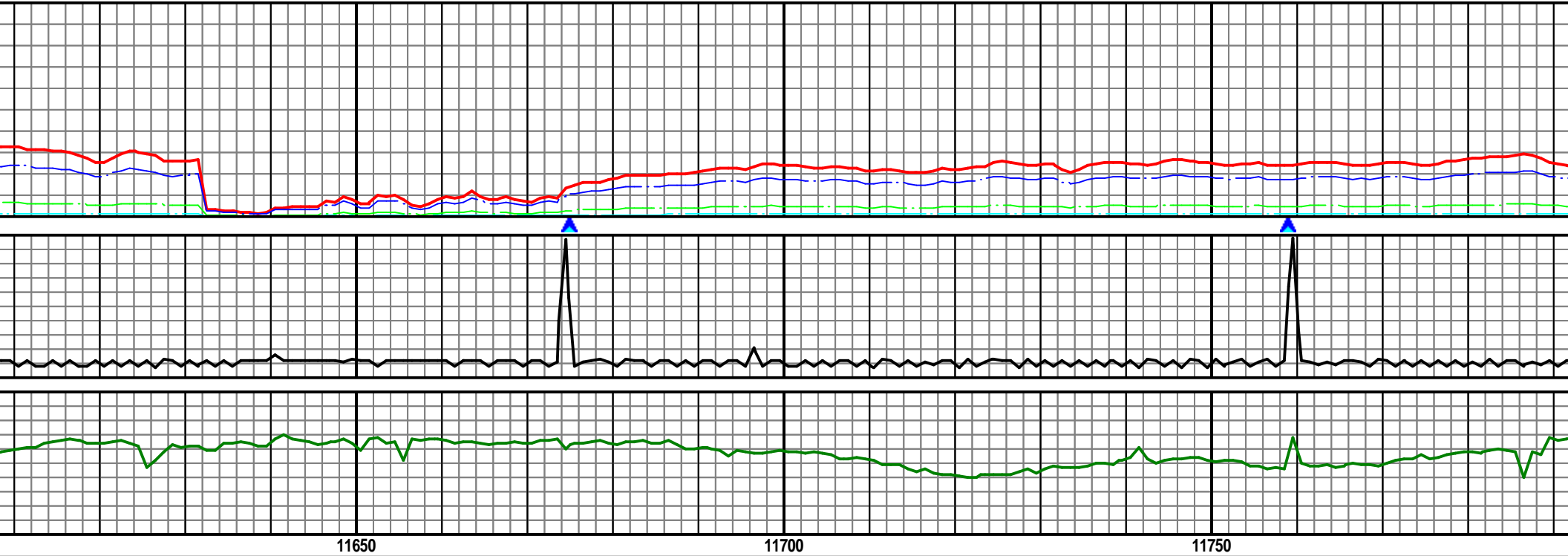
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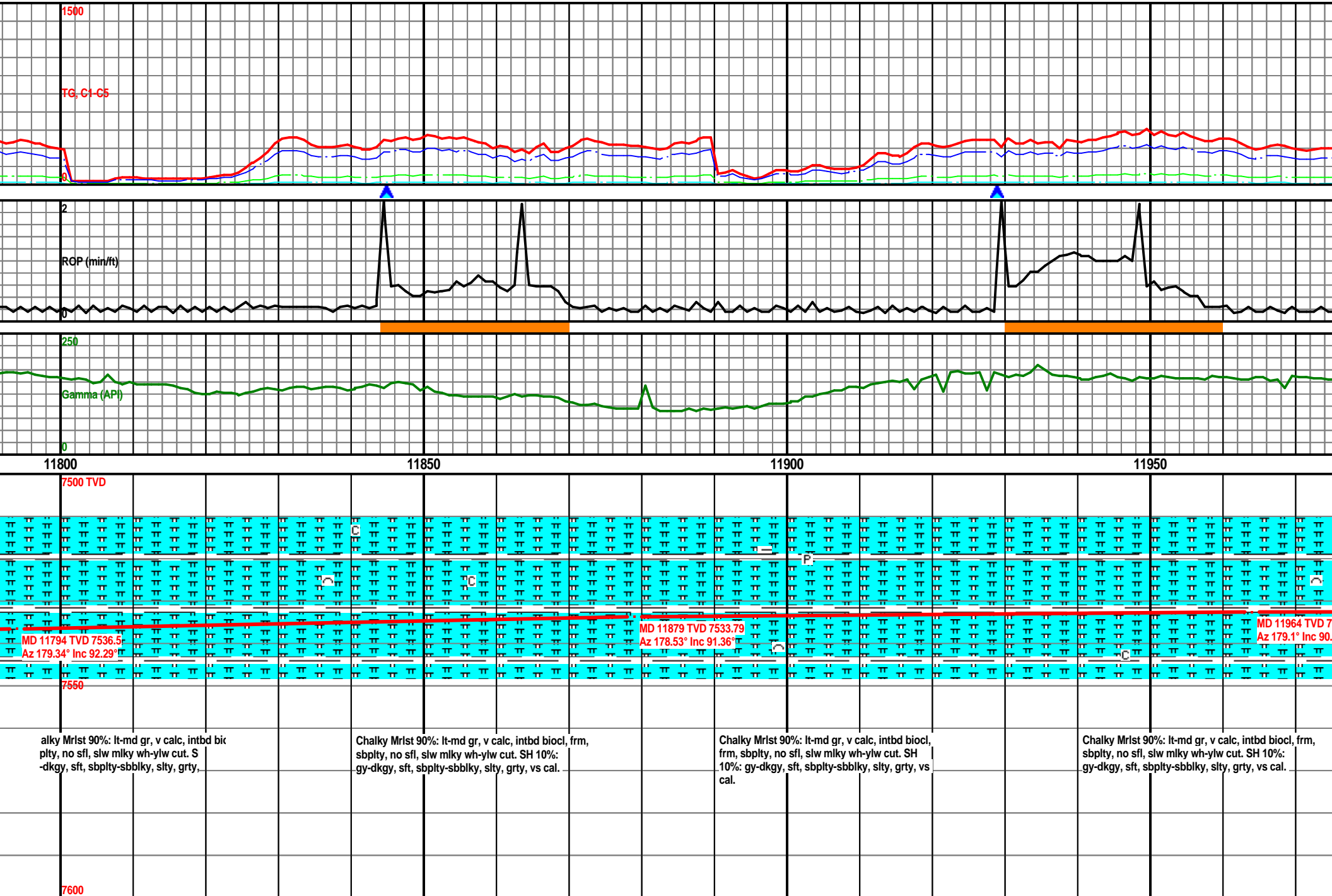
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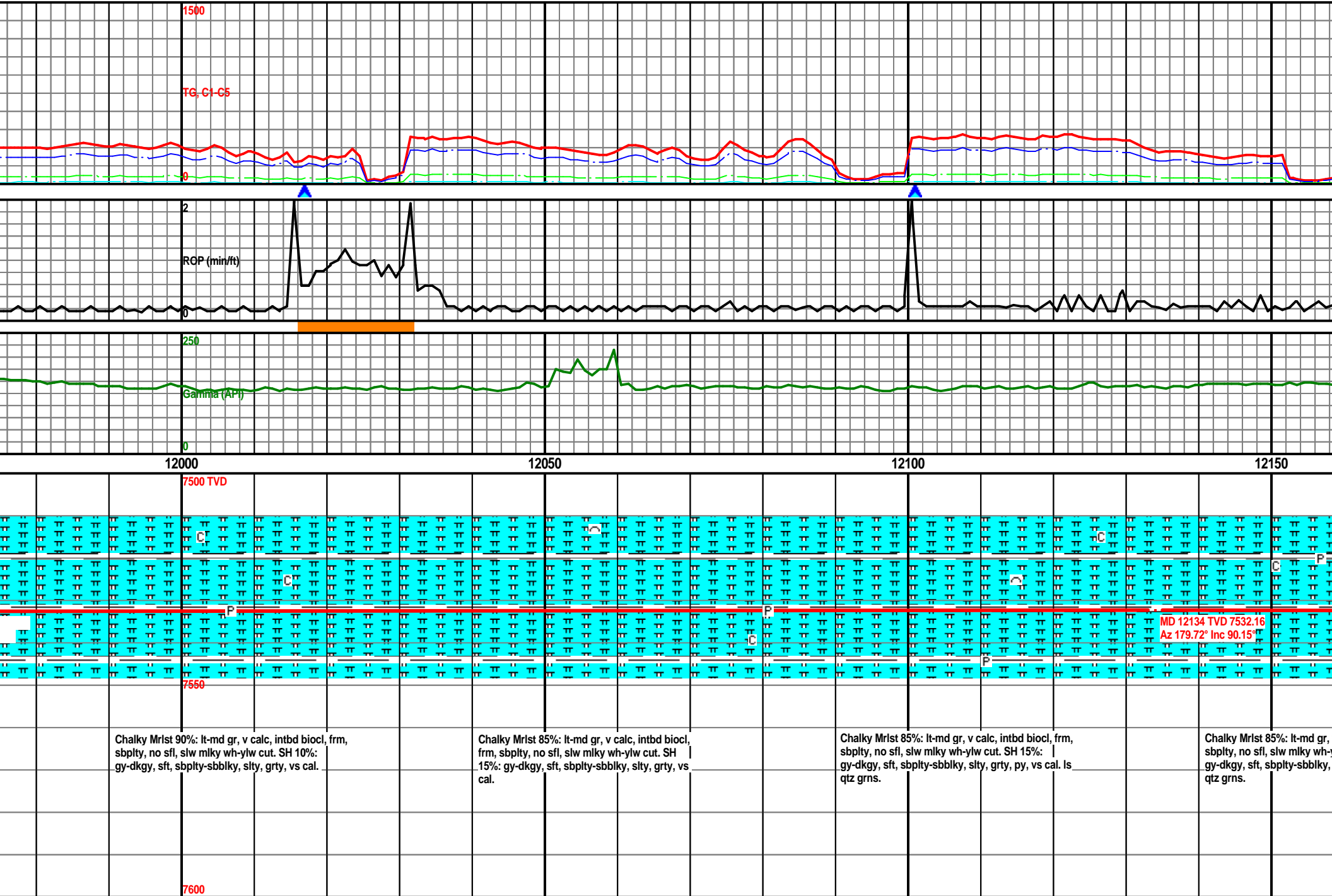
MW: 8.9 / VIS: 41

MW: 8.9 / VIS: 41

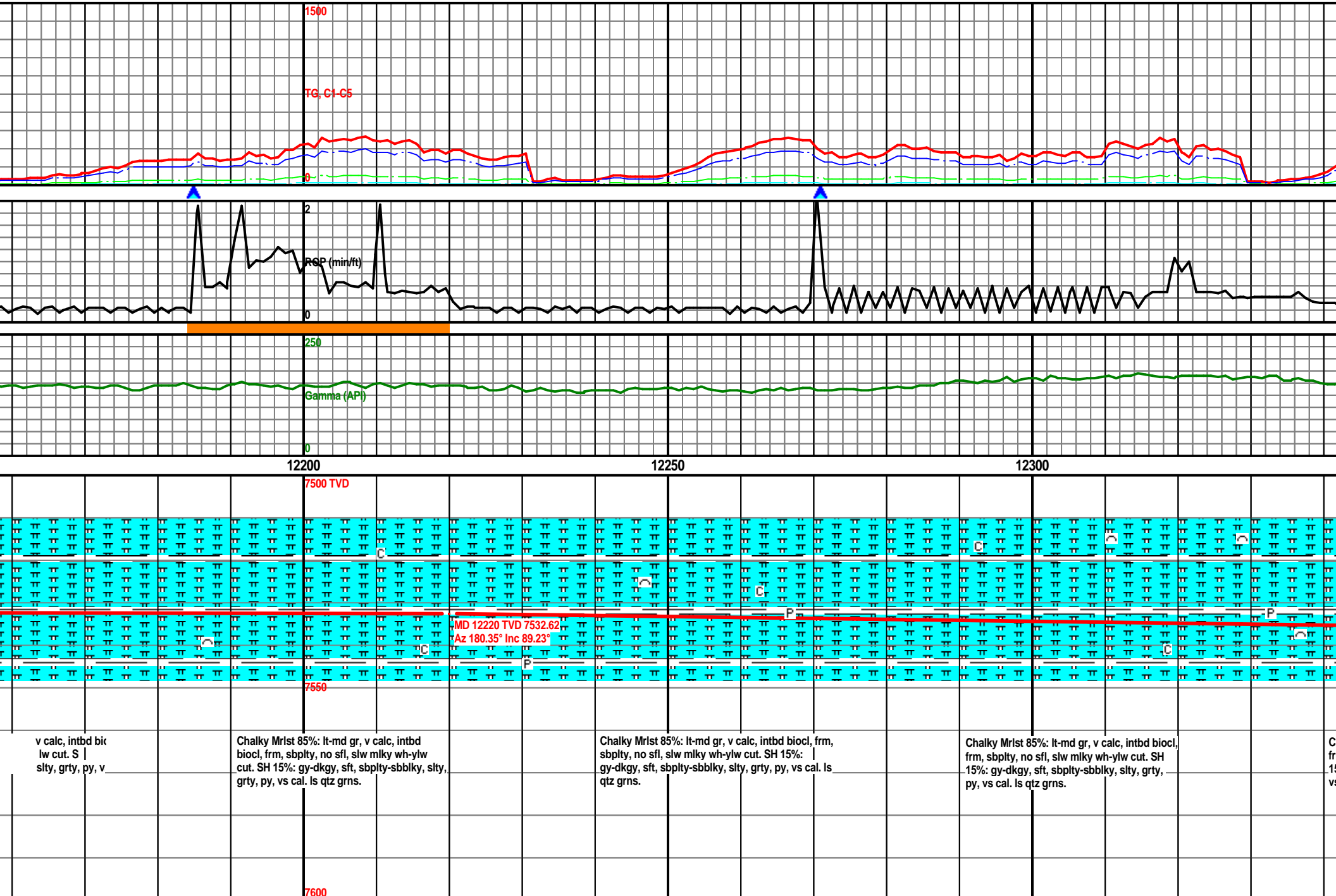


MW: 8.9 / VIS: 41

MW: 8.9 / VIS: 41

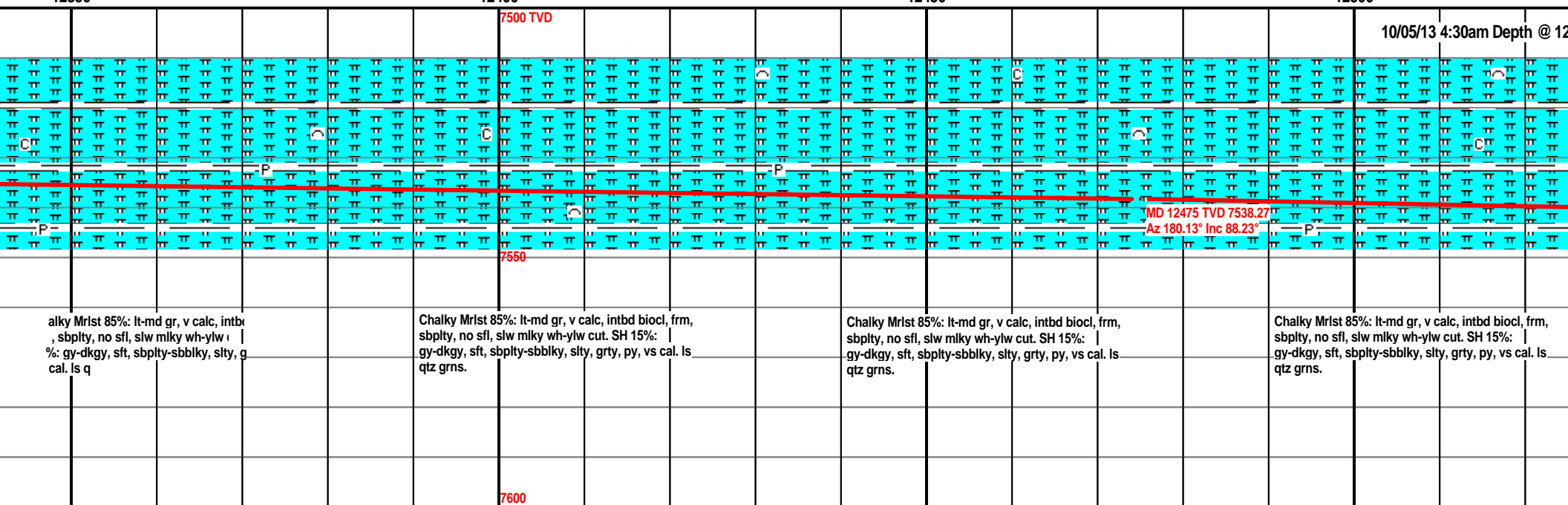
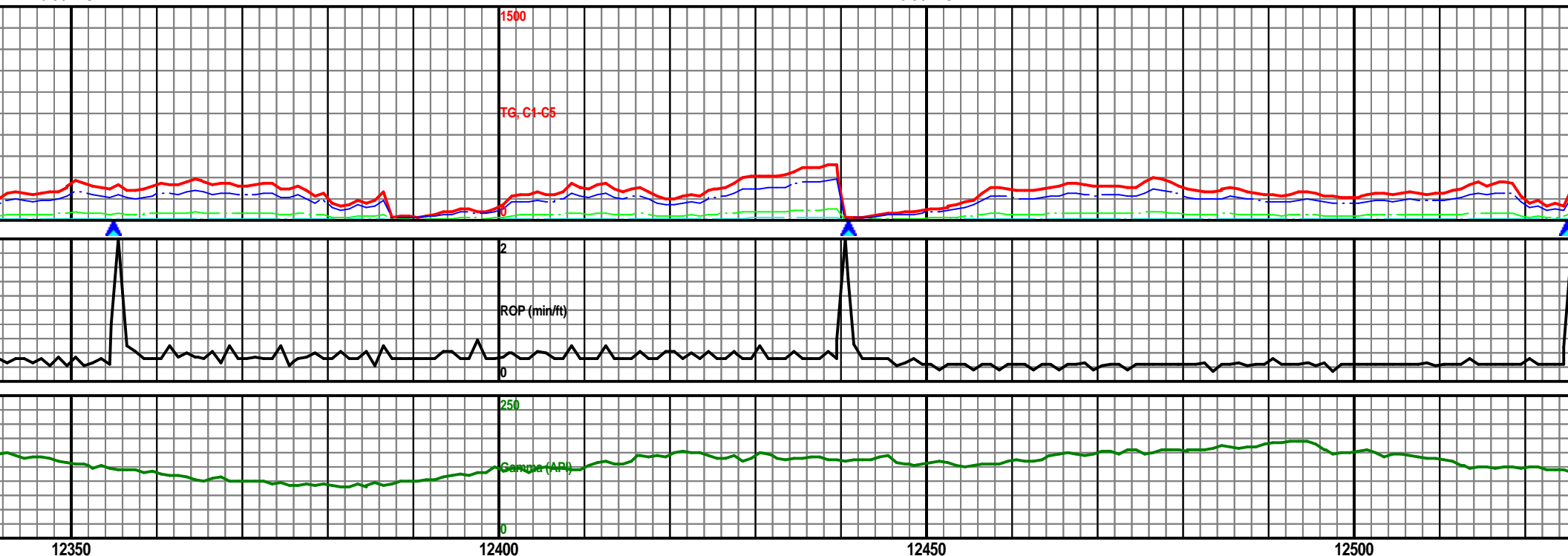


MW: 8.9 / VIS: 41



MW: 8.9 / VIS: 41

MW: 8.9 / VIS: 41



MW: 8.9 / VIS: 41

MW: 8.9 / VIS: 39

1500

TG, C1-C5

0

TD of 12668' MD  
Achieved 5:23AM  
10/05/13. T.O.O.H. to  
run liner.

Casing Trip Gas = 6284 U  
(Off Gas Buster)

2

RGP (min/ft)

0

Two man logging  
unit with sample  
program and gas  
analyzer released  
10/06/13.

250

Gamma (API)

0

12550

12600

12650

7500 TVD

Projection to Bit: MD 12668', INC 88.03, AZM 180.03, TVD 7544.7

7550

MD 12616 TVD 7542.88  
Az 180.03° Inc 88.03°

7600

Chalky Mrlst 85%: lt-md gr, v calc, intbd biocl, frm,  
sbplty, no sfl, slw mlky wh-ylw cut. SH 15%:  
gy-dkgy, sft, sbplty-sbblky, slty, grty, py, vs cal. ls  
qtz grns.

Chalky Mrlst 85%: lt-md gr, v calc, intbd biocl, frm,  
sbplty, no sfl, slw mlky wh-ylw cut. SH 15%:  
gy-dkgy, sft, sbplty-sbblky, slty, grty, py, vs cal. ls  
qtz grns.

Chalky Mrlst 85%: lt-md gr, v calc, intbd biocl, frm,  
sbplty, no sfl, slw mlky wh-ylw cut. SH 15%:  
gy-dkgy, sft, sbplty-sbblky, slty, grty, py, vs cal. ls  
qtz grns.