



Scale 1:600 (2"=100') Metric  
Measured Depth Log

Well Name: Underhill 27N-17HZ  
Location: Weld County, CO.  
License Number: 051233691500  
Spud Date: 7/30/2013  
Surface Coordinates: 848'FSL & 992'FEL, SEC.17, T1N-R67W  
Region: DJ basin  
Drilling Completed: 8/5/2013  
Bottom Hole Coordinates: 460'FNL & 1341'FEL, SEC. 17, T1N-R67W  
Ground Elevation (m): 5119' K.B. Elevation (m): 5132'  
Logged Interval (m): 7850' To: 12201' Total Depth (m): 12201'  
Formation: Niobrara C-B-A  
Type of Drilling Fluid: Water Based 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

## Comments

## ROCK TYPES

	Anhy		Clyst		Gyp		Mrlst		Shgy
	Bent		Coal		Igne		Salt		Sltst
	Brec		Congl		Lmst		Shale		Ss
	Cht		Dol		Meta		Shcol		Till

## ACCESSORIES

### MINERAL

	Anhy
	Arggrn
	Arg
	Bent
	Bit
	Brecfrag
	Calc
	Carb
	Chtdk
	Chtlt
	Dol
	Feldspar
	Ferrpel
	Ferr
	Glau
	Gyp

	Hvymin
	Kaol
	Marl
	Minxl
	Nodule
	Phos
	Spr calc
	Pyr
	Salt
	Sandy
	Silt
	Sil
	Sulphur
	Tuff
	New symbol
	New symbol

### FOSSIL

	Algae
	Amph
	Belm
	Bioclst
	Brach
	Bryozoa
	Cephal
	Coral
	Crin
	Echin
	Fish
	Foram
	Fossil
	Gastro
	Oolite
	Ostra

	Pelec
	Pellet
	Pisolite
	Plant
	Strom

### STRINGER








	Anhy
	Arg
	Bent
	Coal
	Dol
	Gyp
	Ls
	Mrst
	Sltstrg
	Ssstrg

### TEXTURE

	Boundst
	Chalky
	Cryxln
	Earthy
	Finexln
	Grainst
	Lithogr
	Microxln
	Mudst
	Packst
	Wackest

## OTHER SYMBOLS

### POROSITY

 Earthy  
 Fenest  
 Fracture  
 Inter  
 Moldic  
 Organic  
 Pinpoint







Vuggy

### SORTING

 Well  
 Moderate  
 Poor

### ROUNDING

 Rounded  
 Subrnd  
 Subang  
 Angular

### OIL SHOW

 Even



Spotted



Ques



Dead

### INTERVAL



Core



Dst

### EVENT

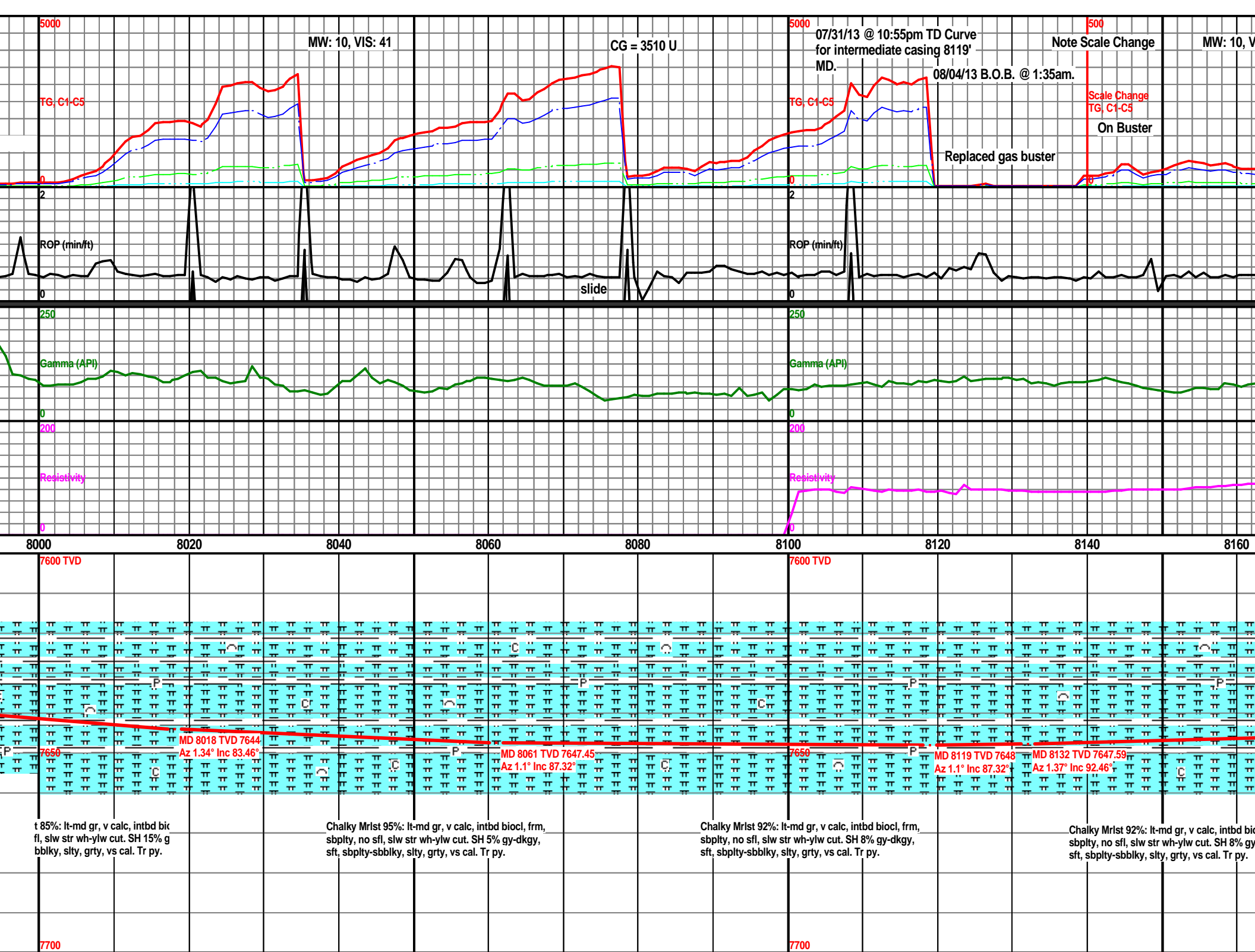


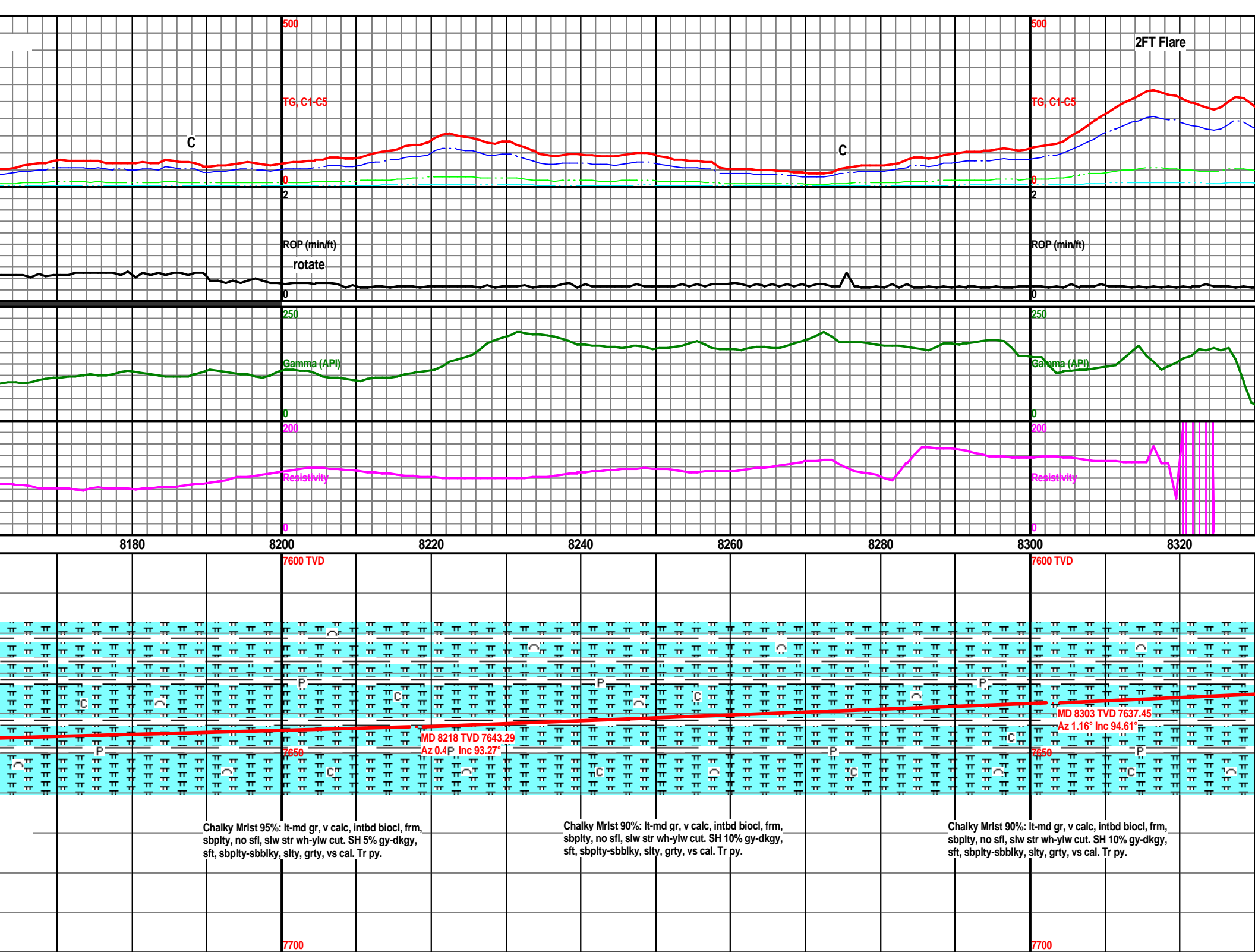
Rft



Sidewall

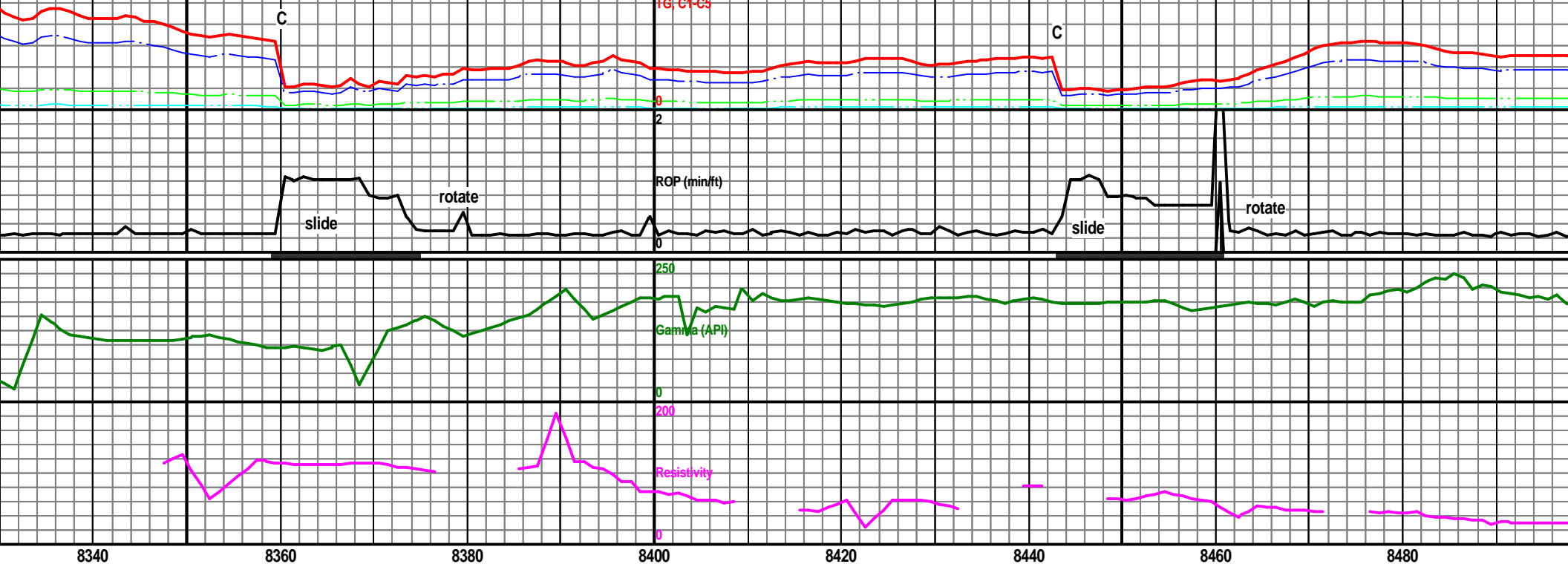






MW: 10, VIS: 39

MW: 10, VIS: 39



8340

8360

8380

8400

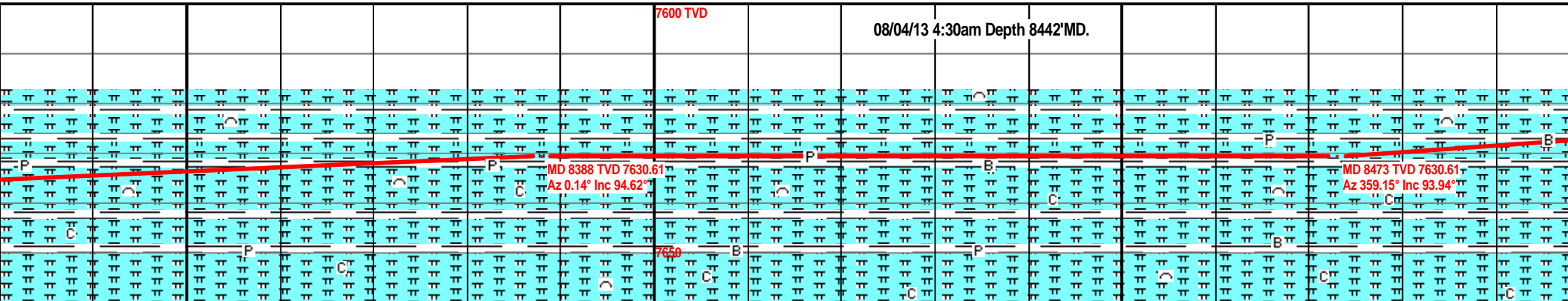
8420

8440

8460

8480

08/04/13 4:30am Depth 8442' MD.



7600 TVD

7650

7700

MD 8388 TVD 7630.61  
Az 0.14° Inc 94.62°

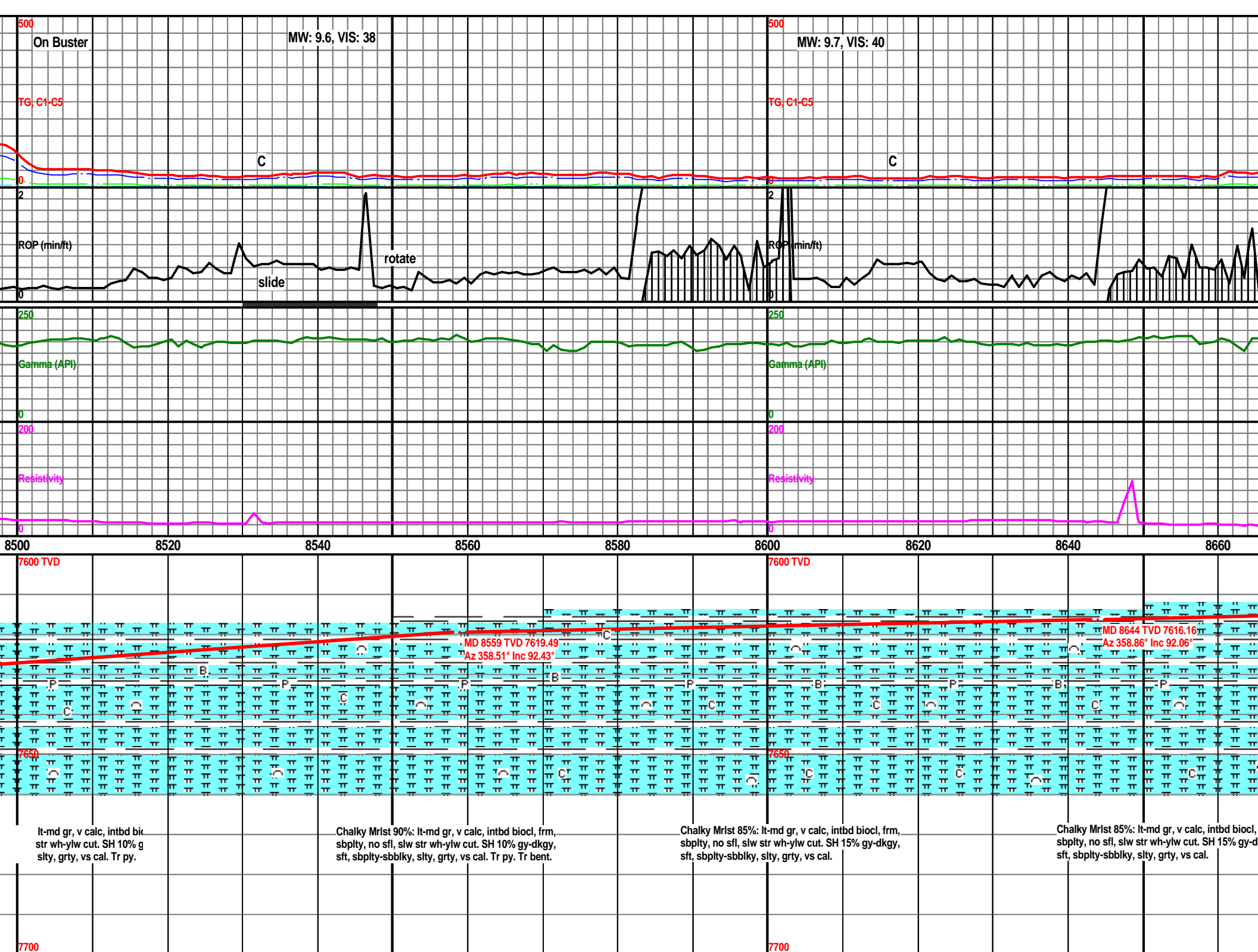
MD 8473 TVD 7630.61  
Az 359.15° Inc 93.94°

Chalky Mrlst 90%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, slw str wh-ylw cut. SH 10% gy-dkgy, sft, sbplty-sbbiky, slty, grty, vs cal. Tr py.

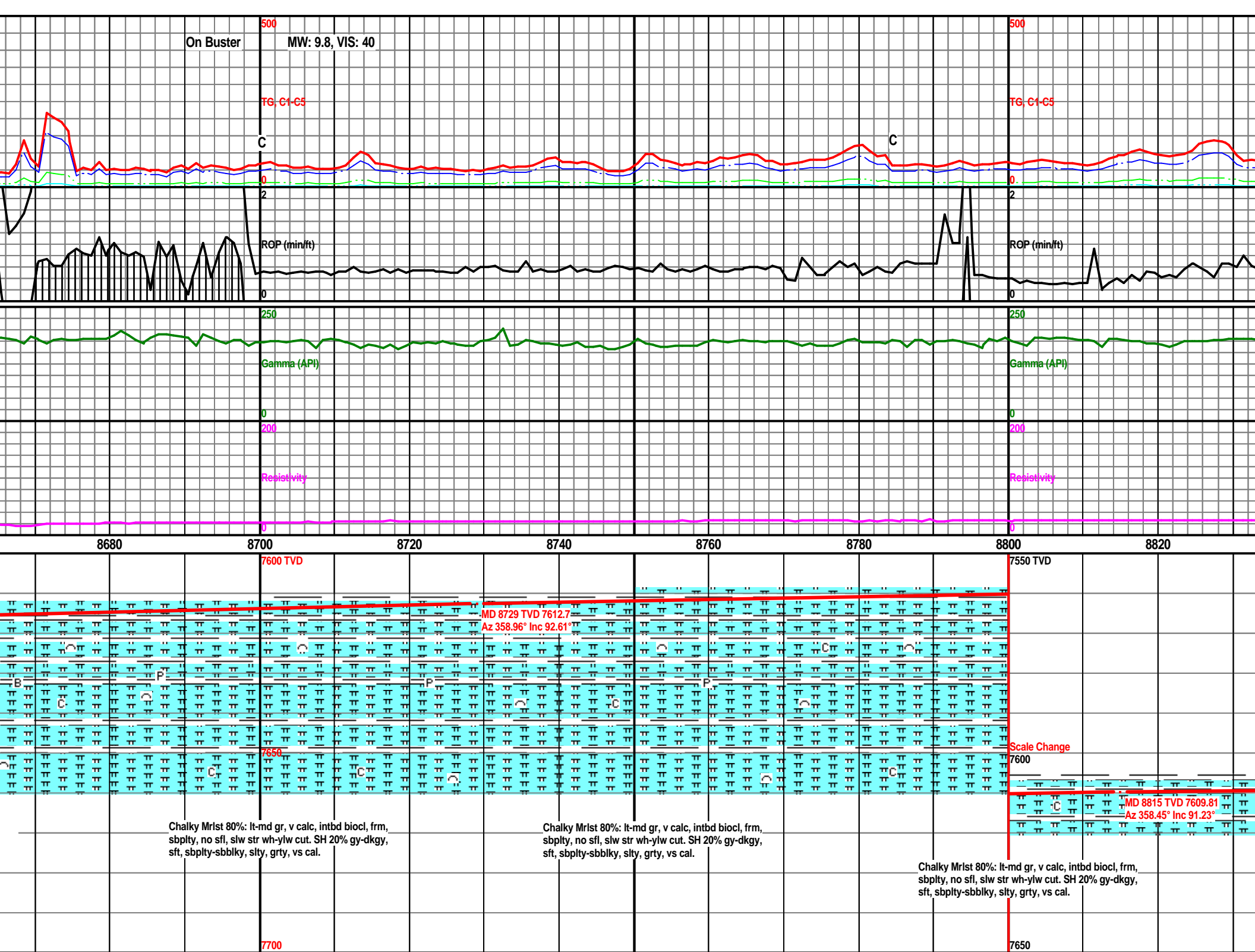
Chalky Mrlst 95%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, slw str wh-ylw cut. SH 5% gy-dkgy, sft, sbplty-sbbiky, slty, grty, vs cal. Tr py.

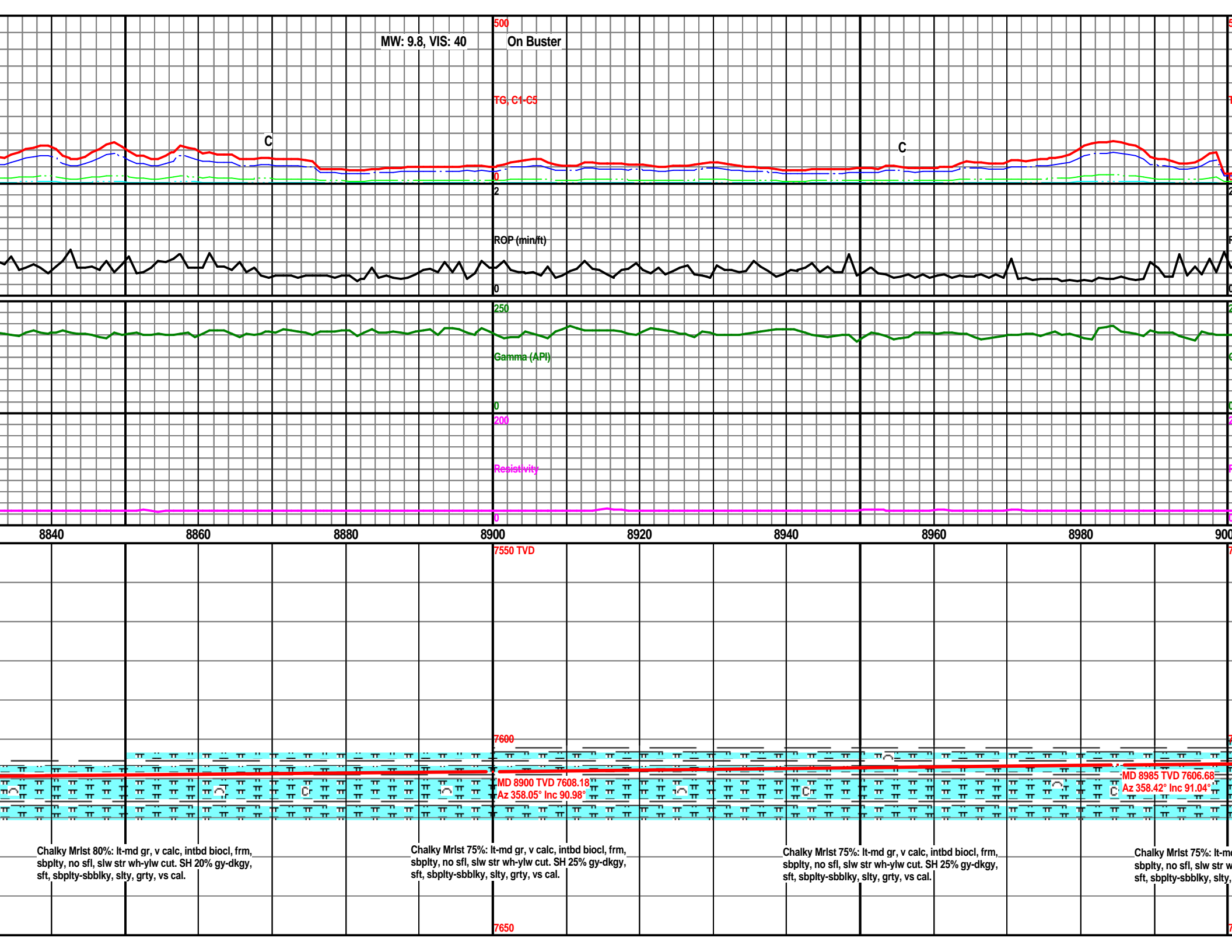
Chalky Mrlst 95%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, slw str wh-ylw cut. SH 5% gy-dkgy, sft, sbplty-sbbiky, slty, grty, vs cal. Tr bent.

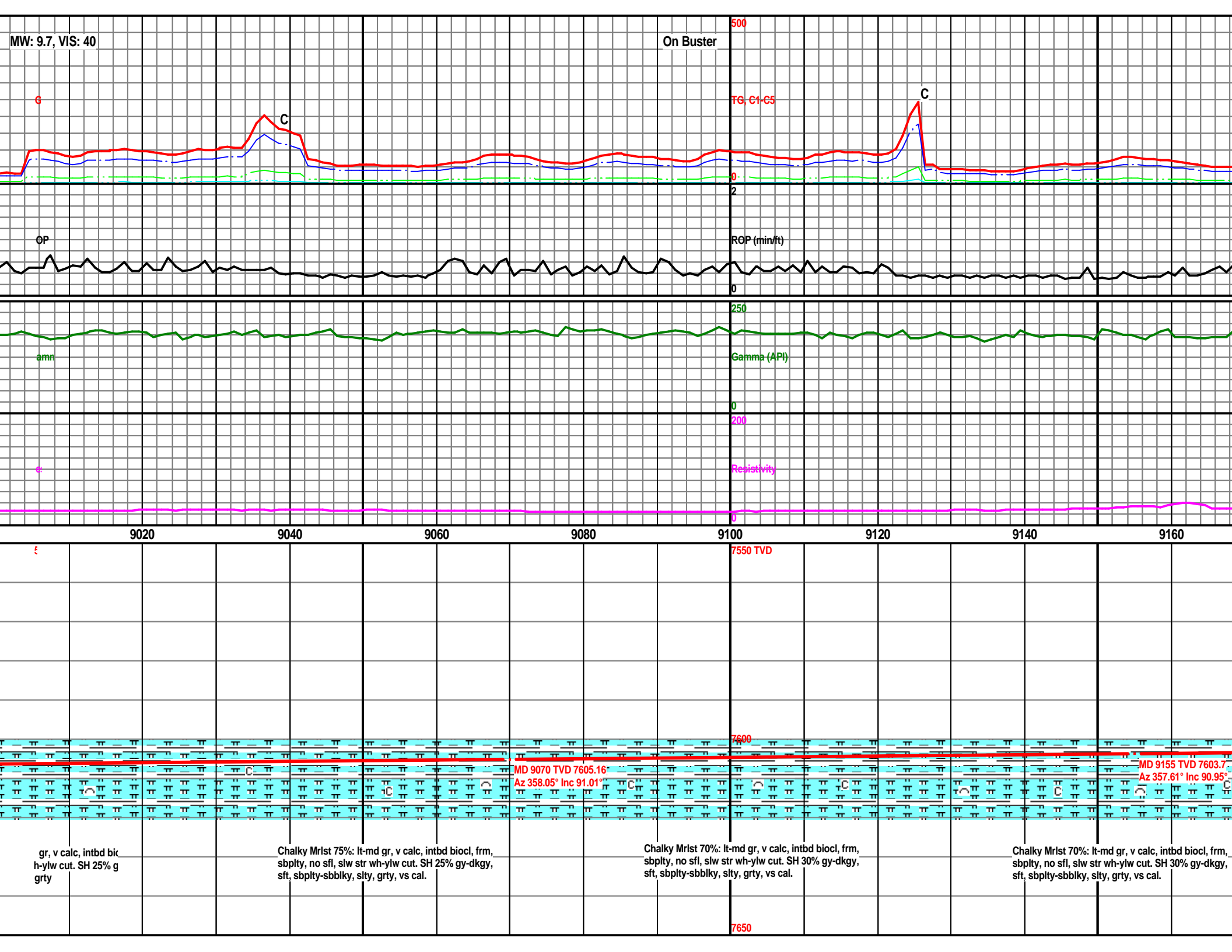
Chalky Mrlst 90%: sbplty, no sfl, slw sft, sbplty-sbbiky.

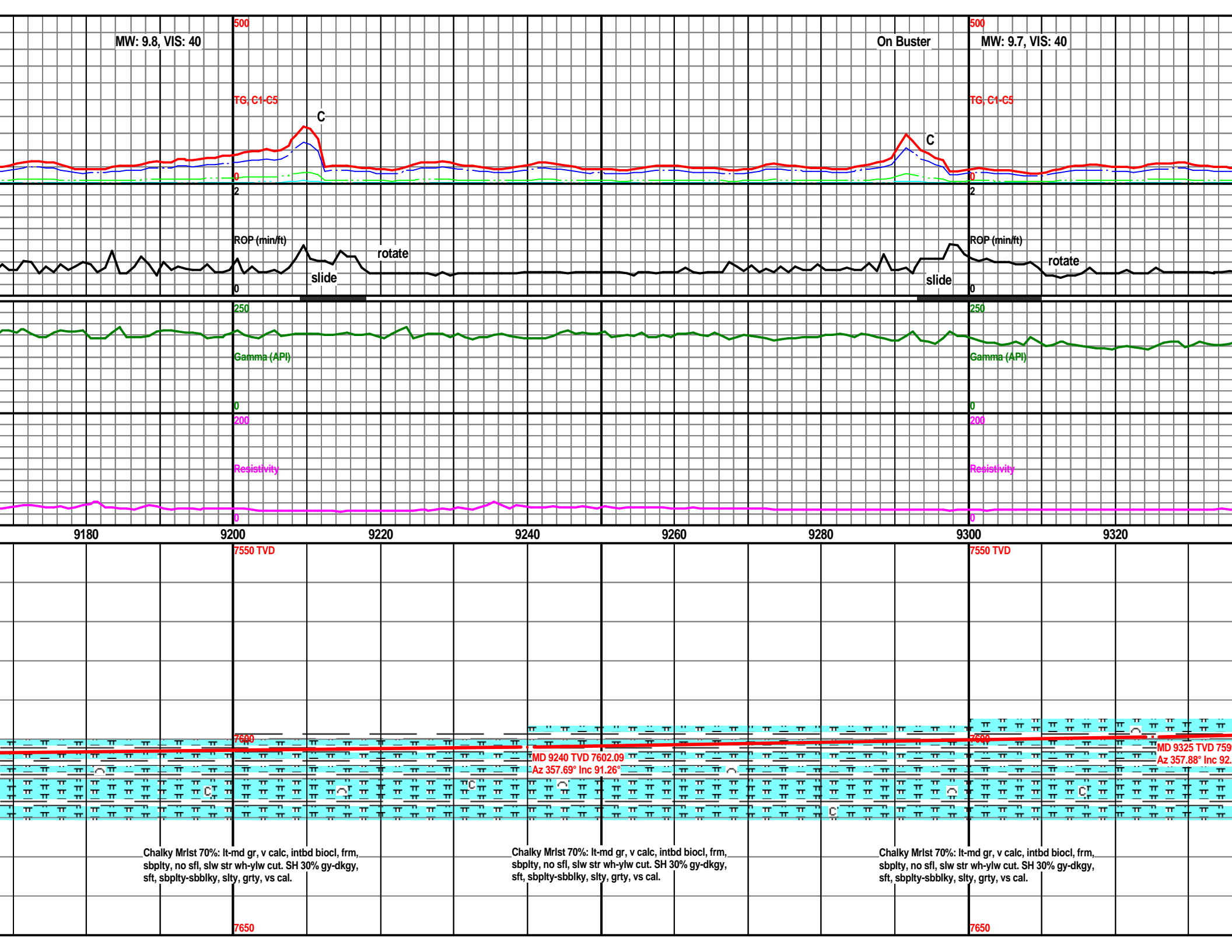


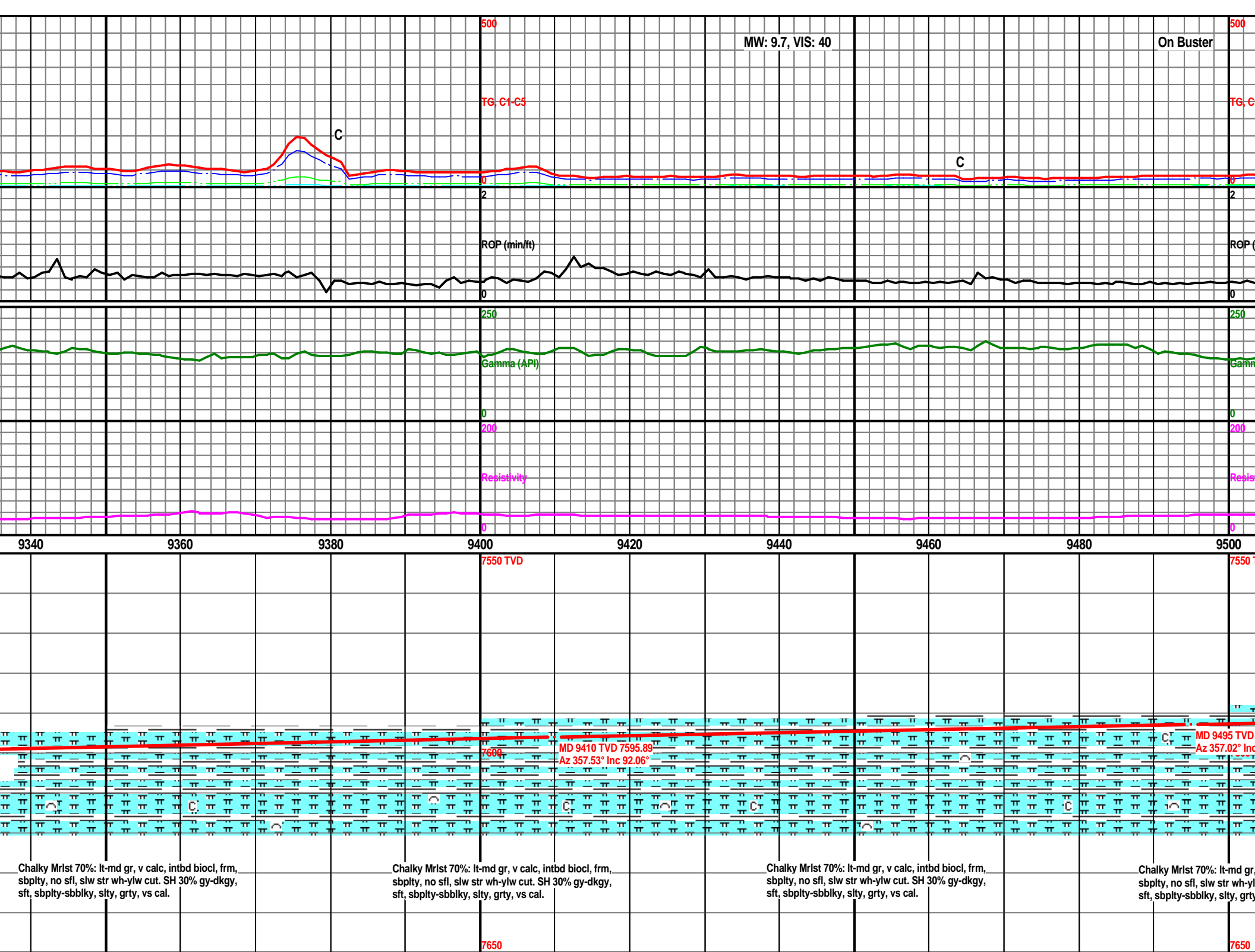


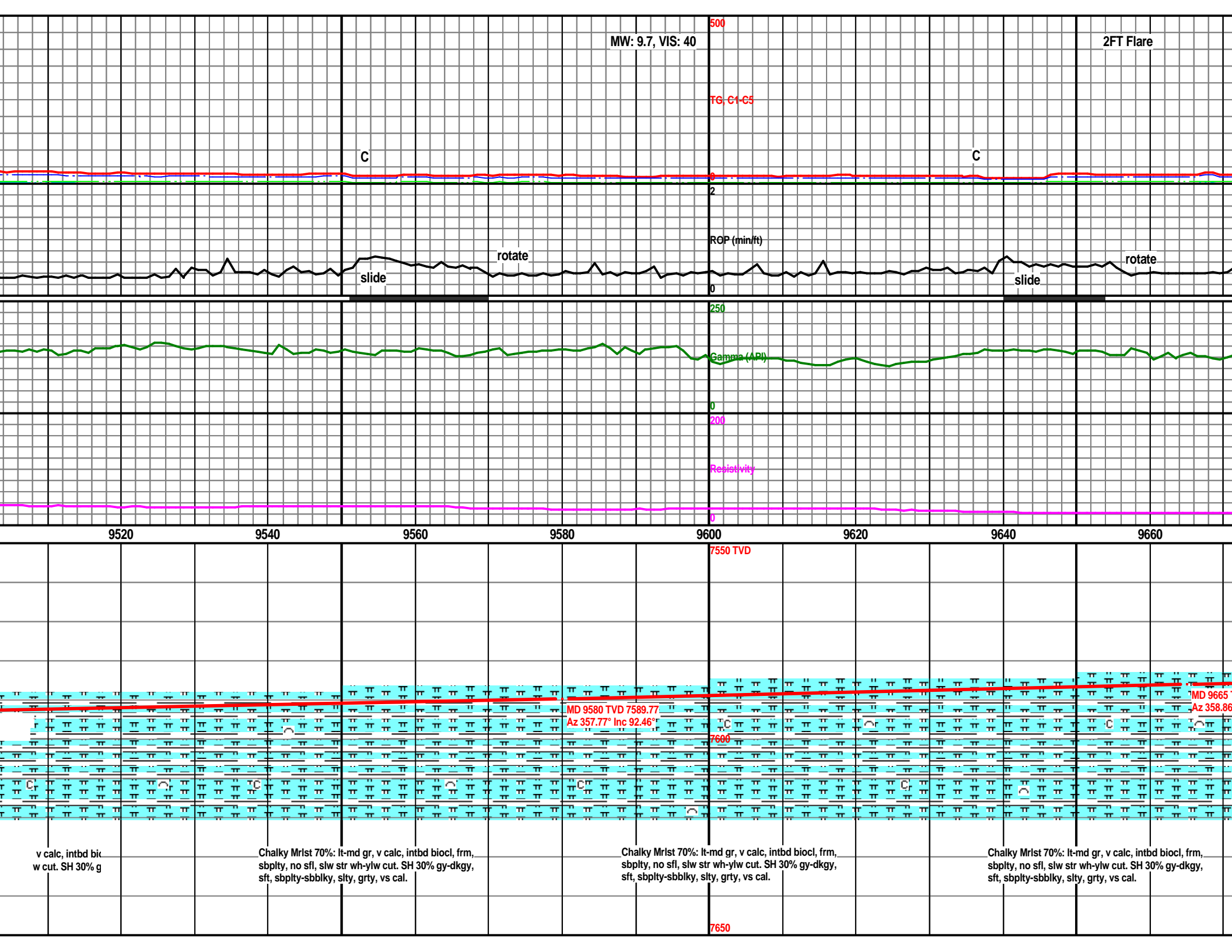


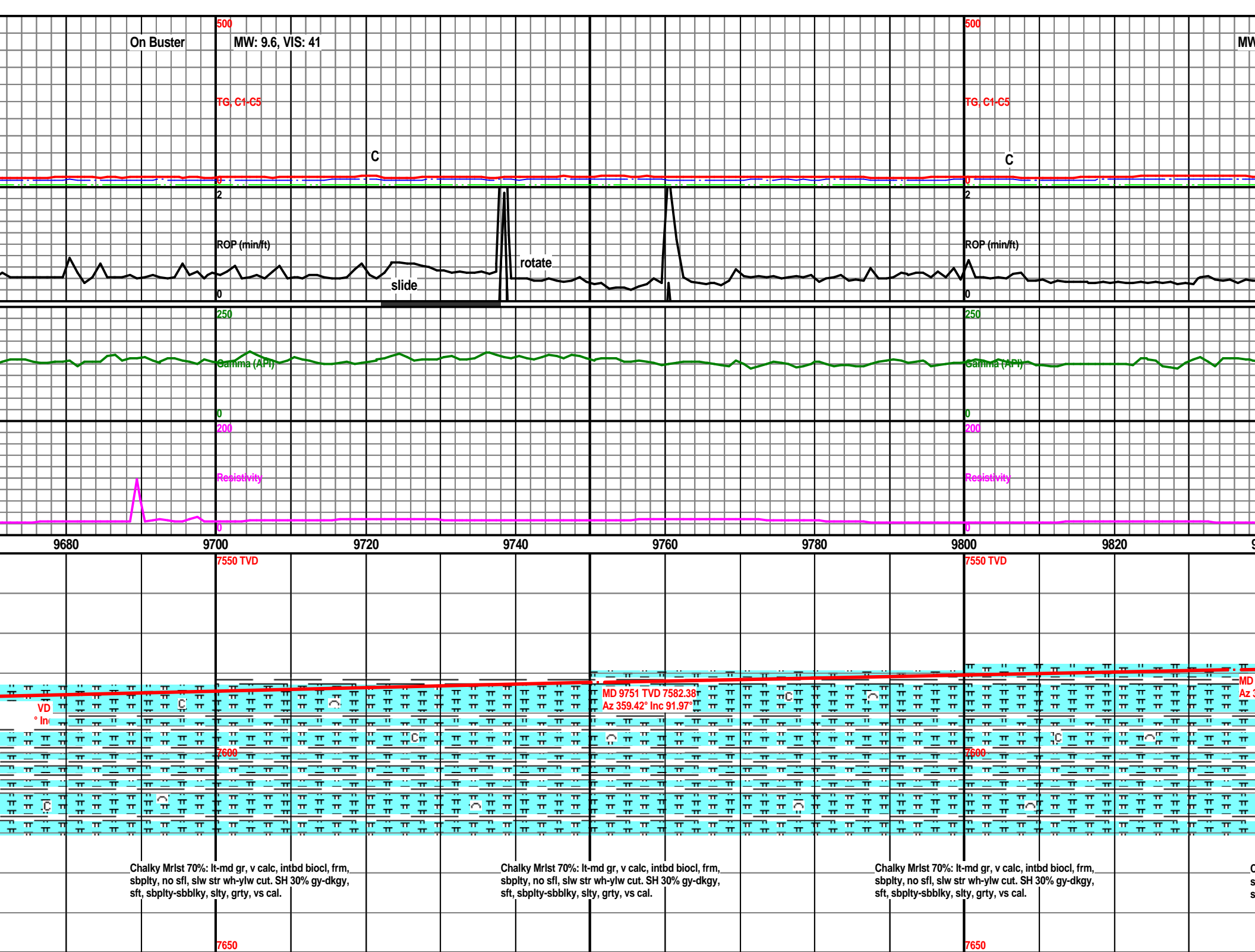


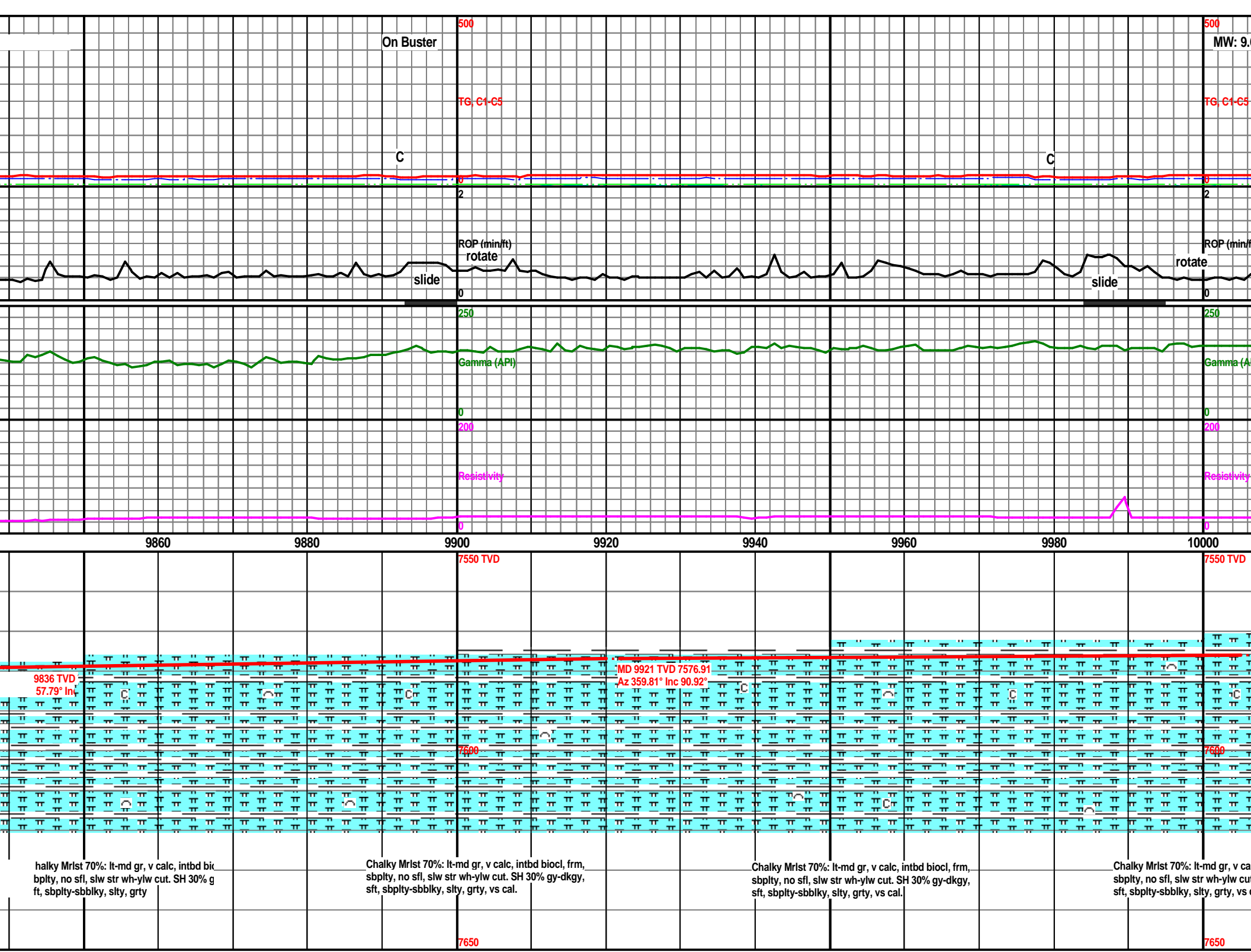




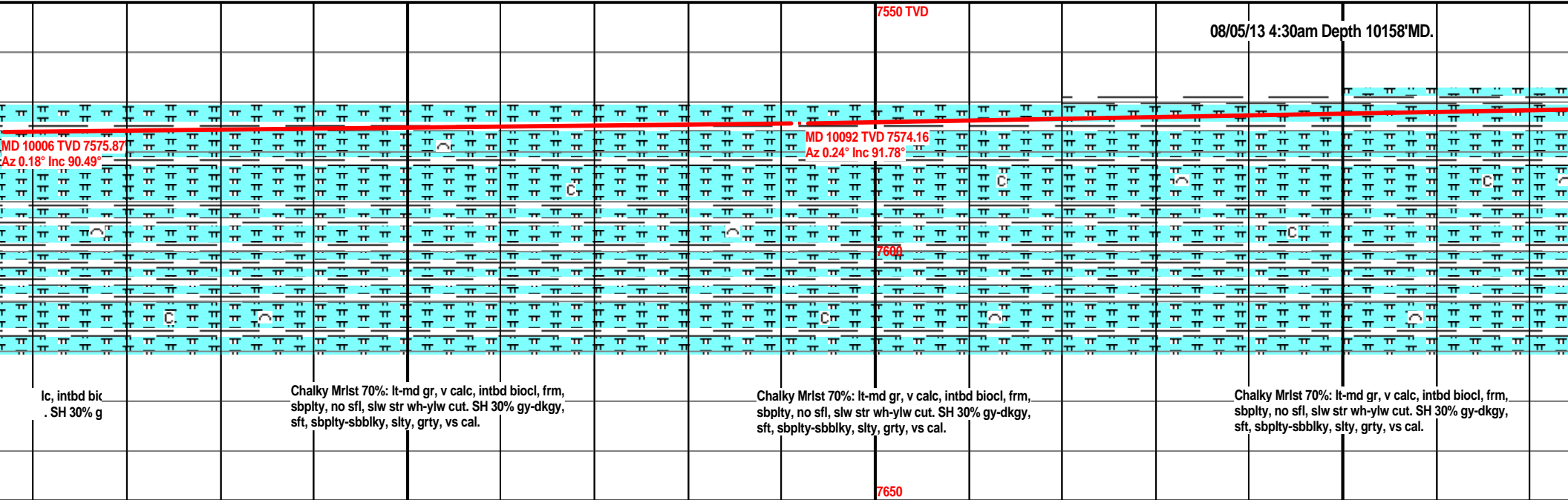
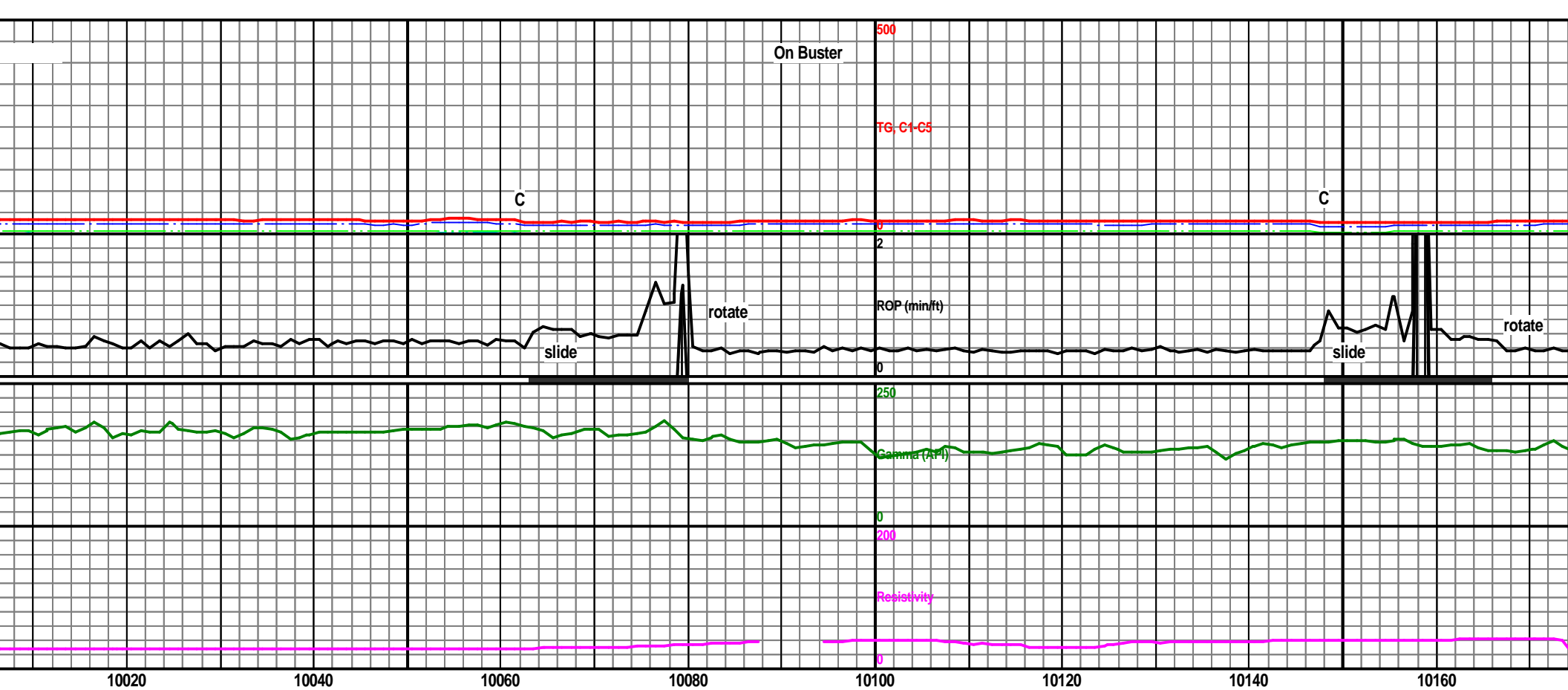


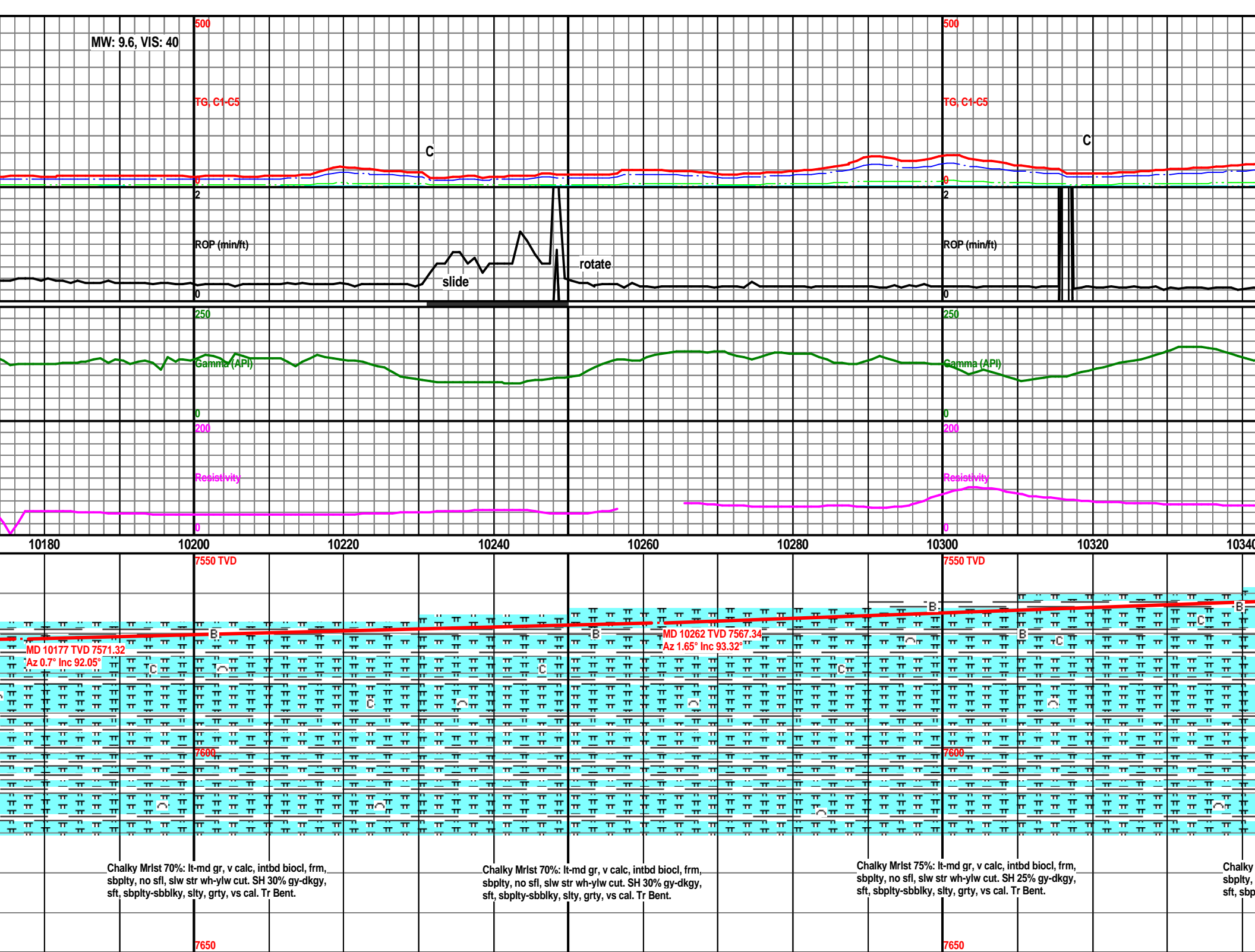


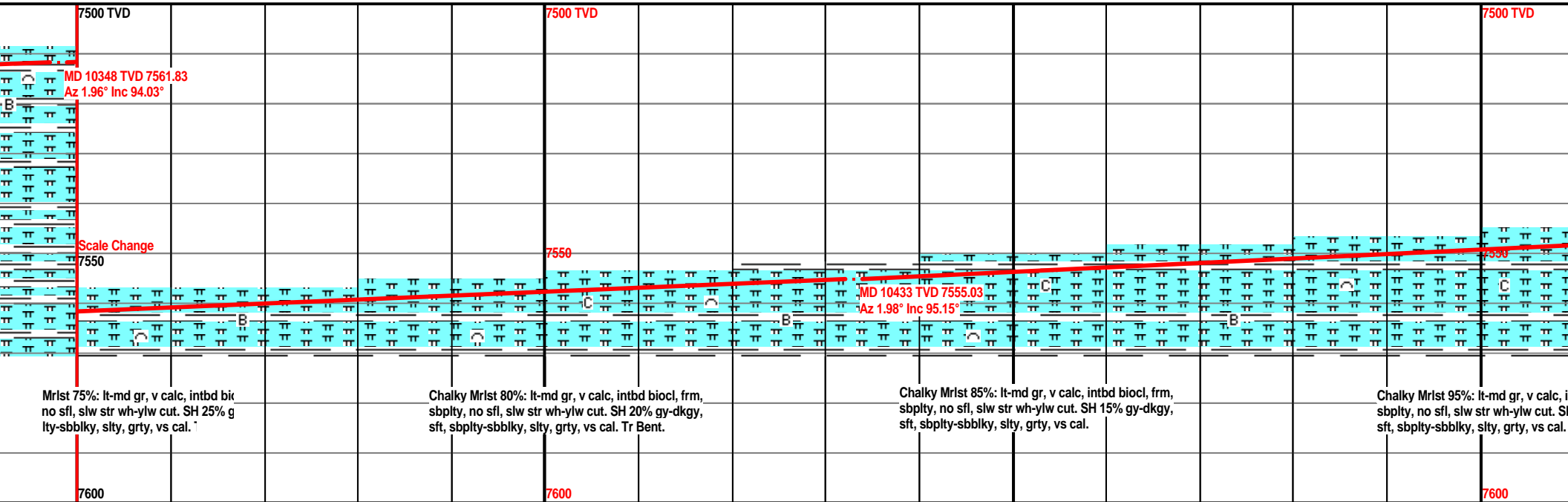
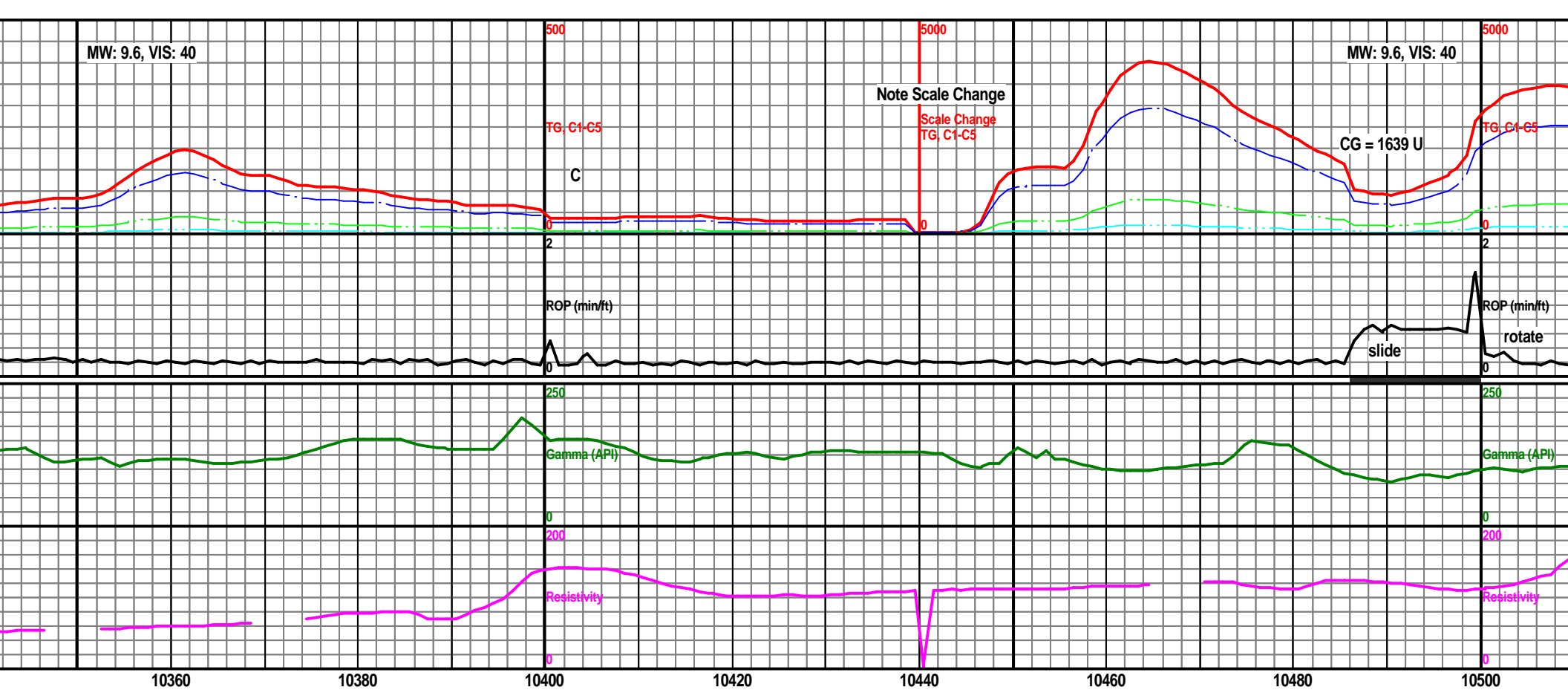


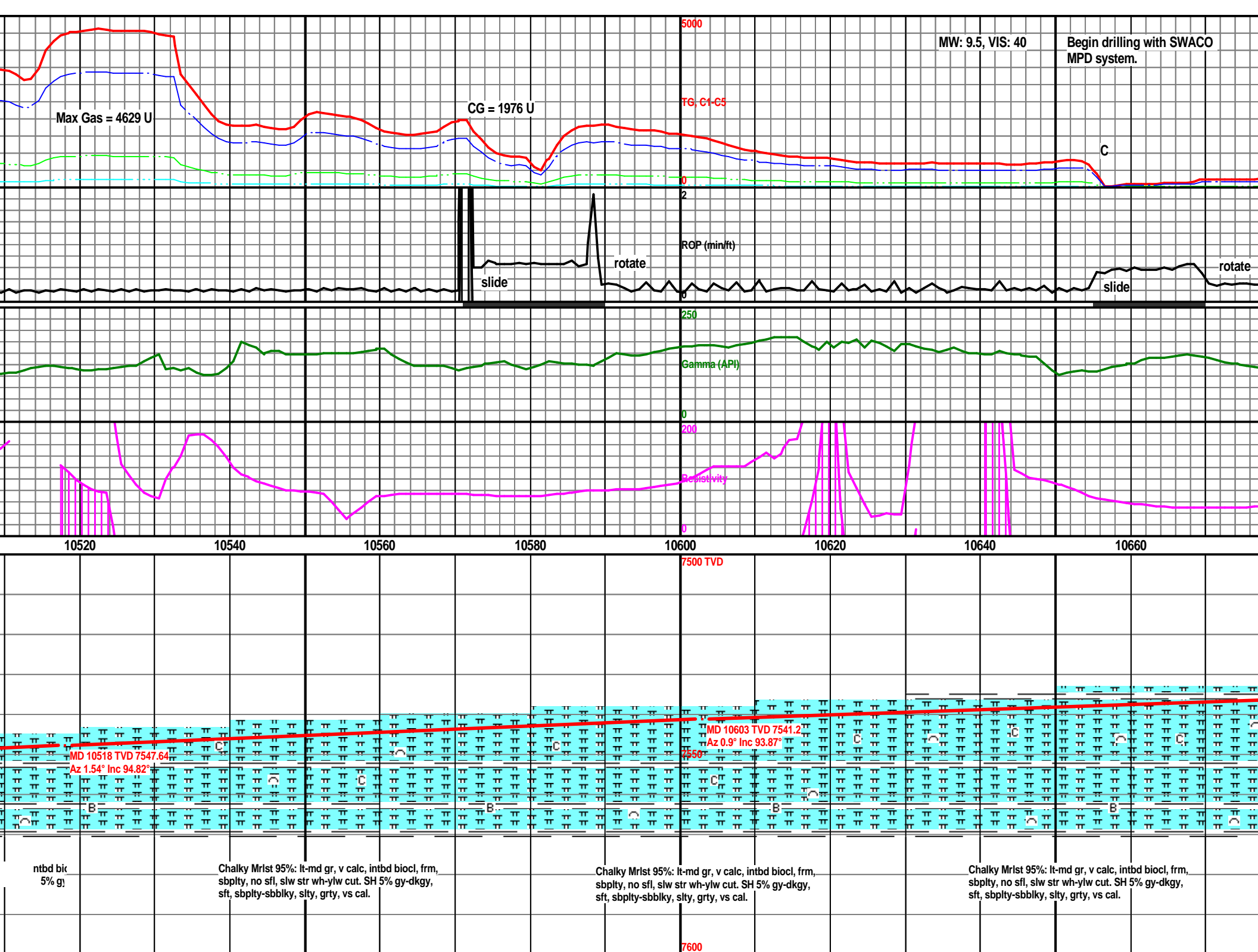


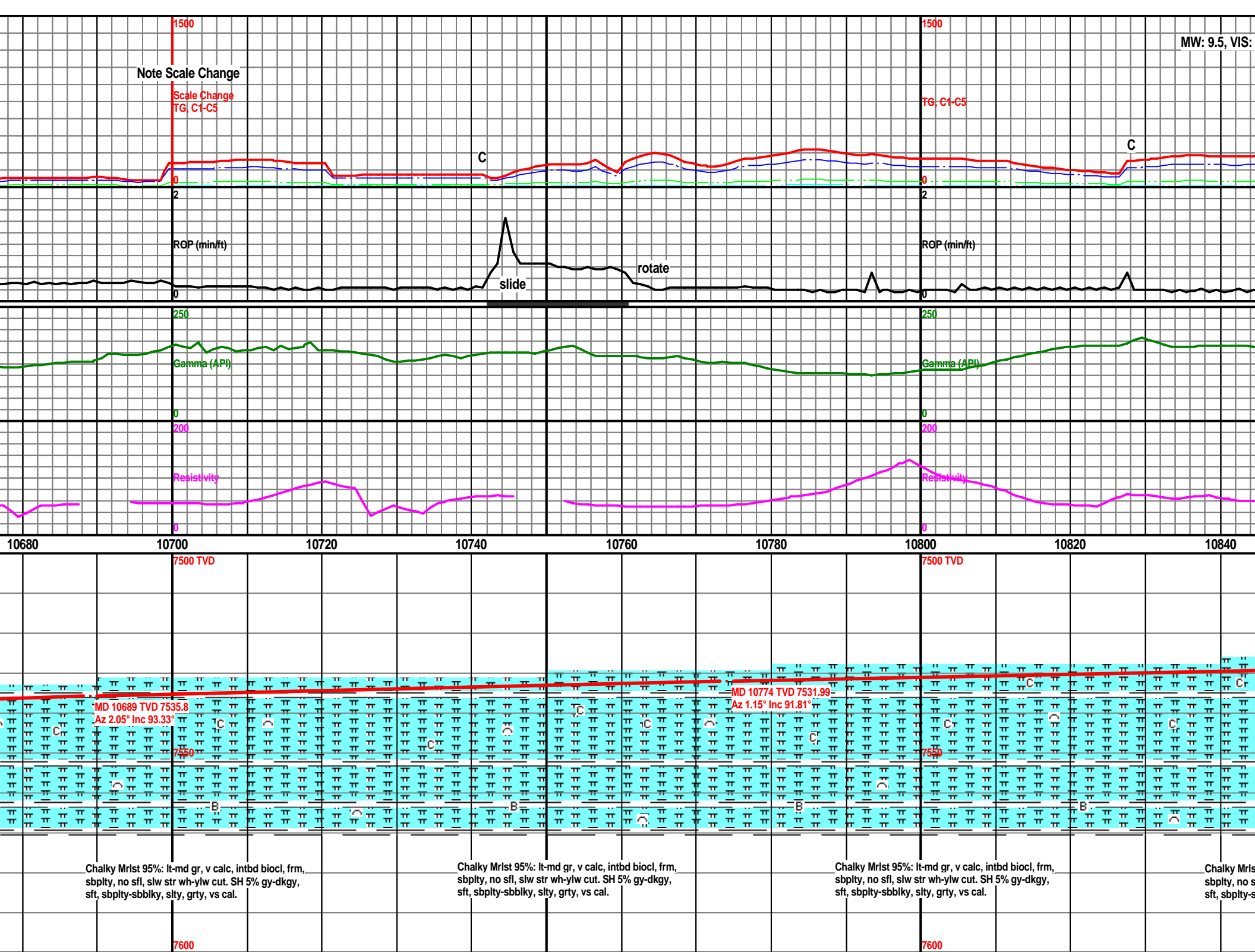


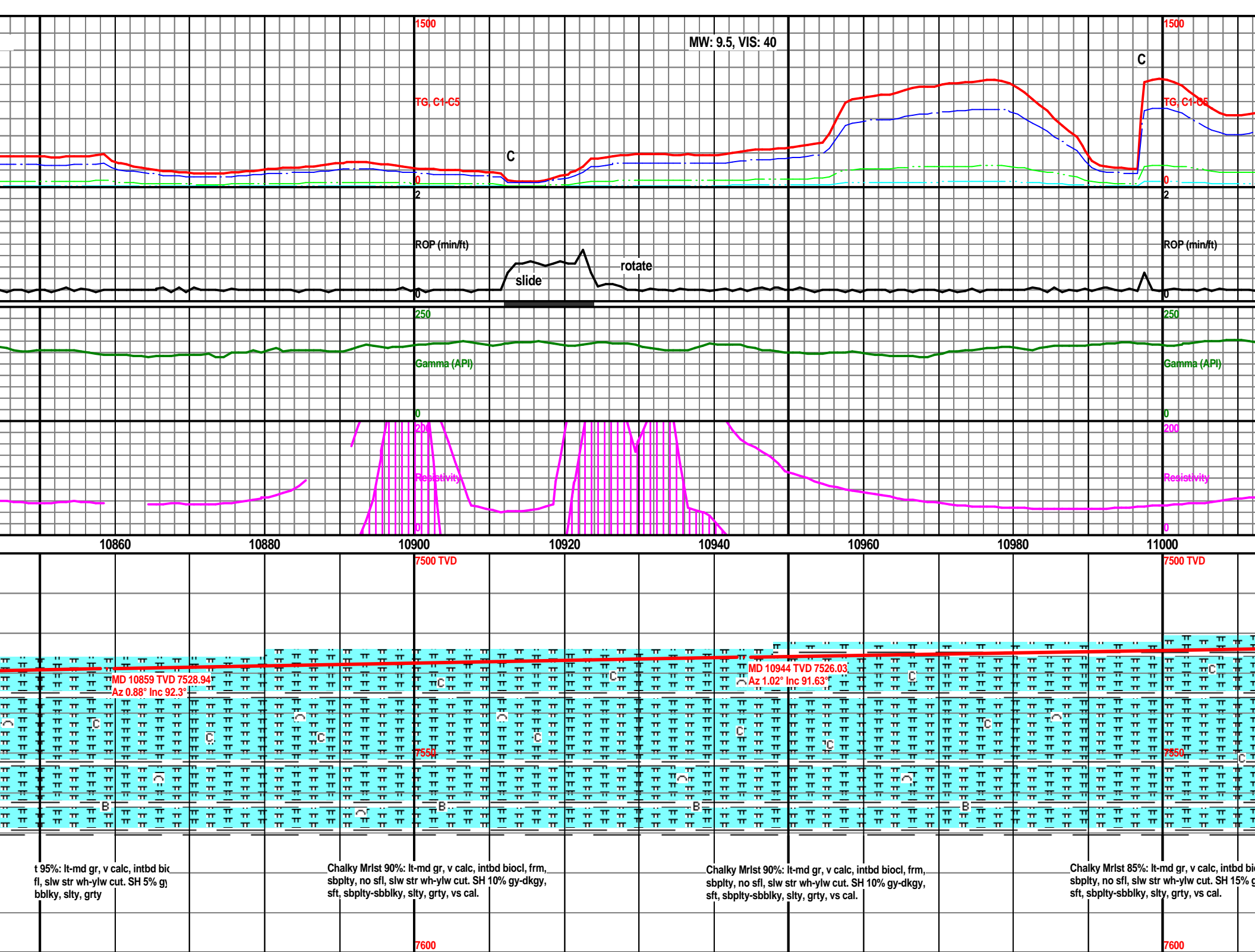


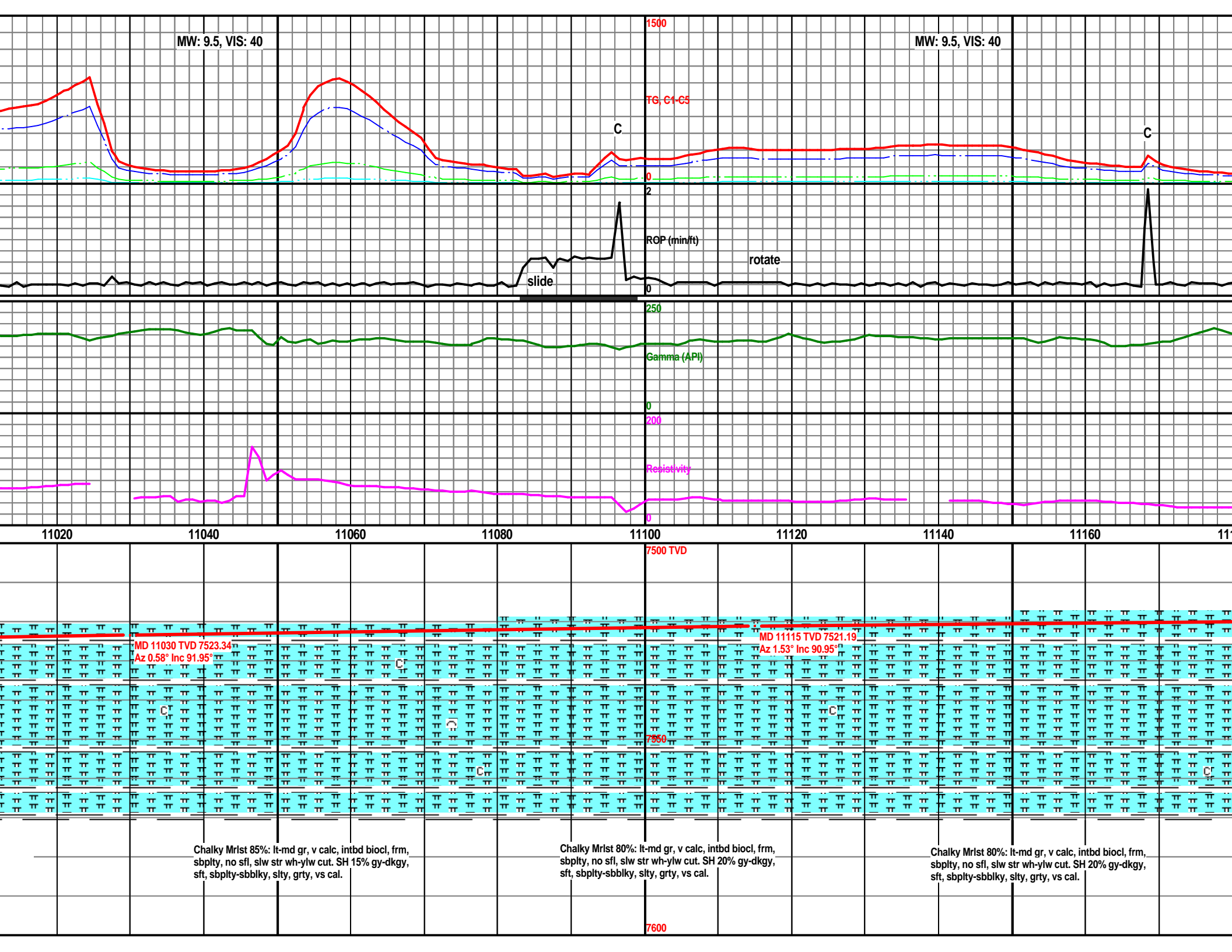


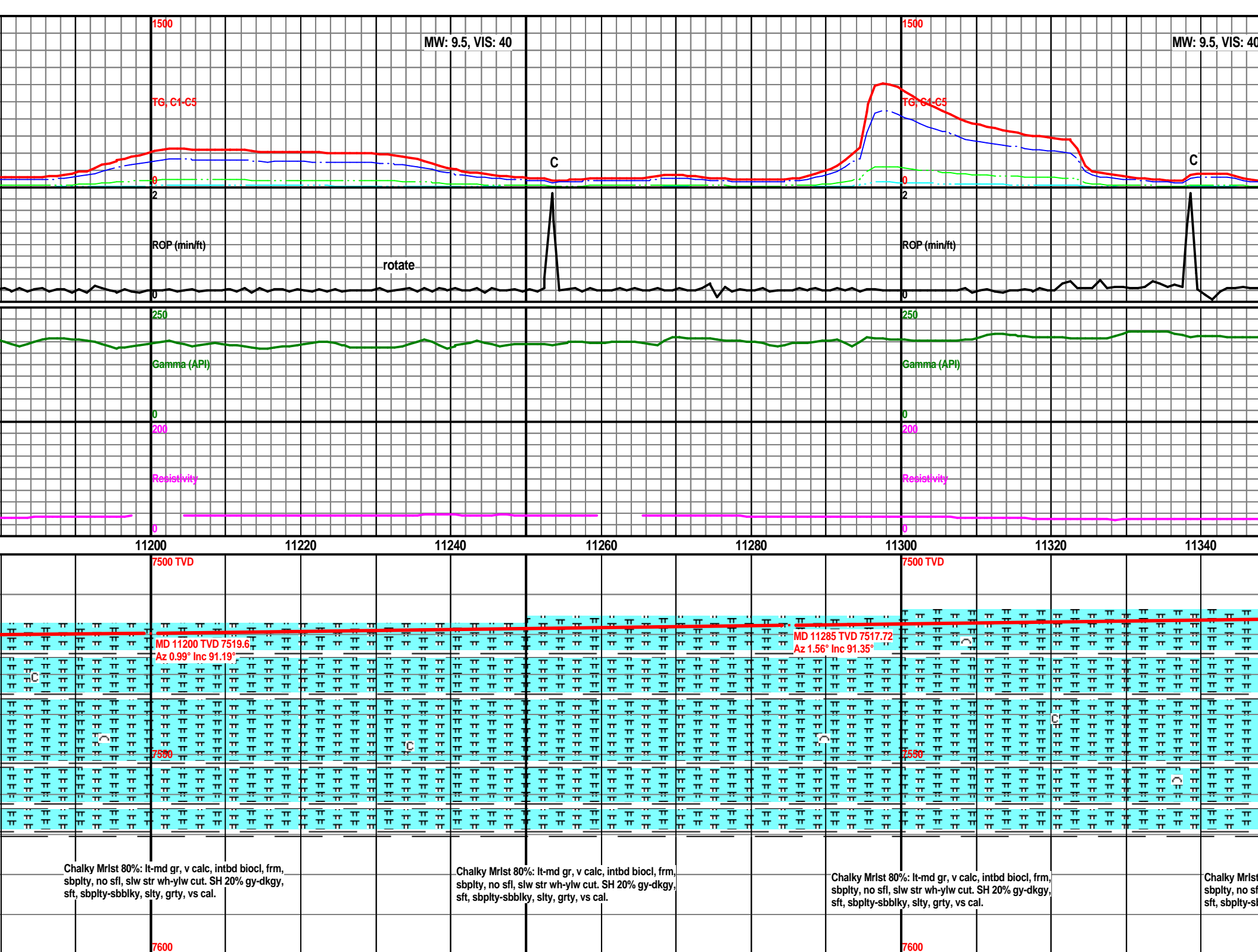




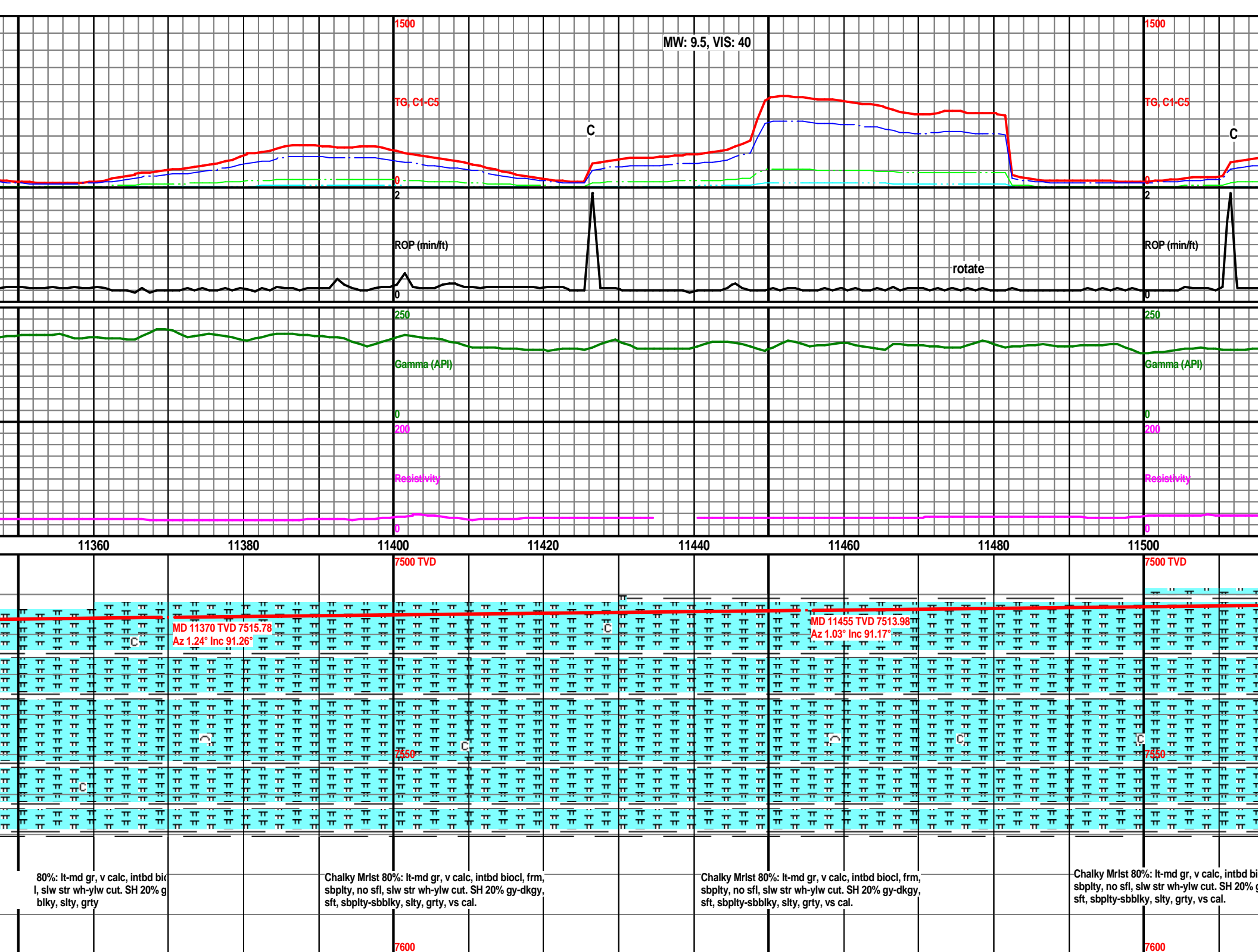






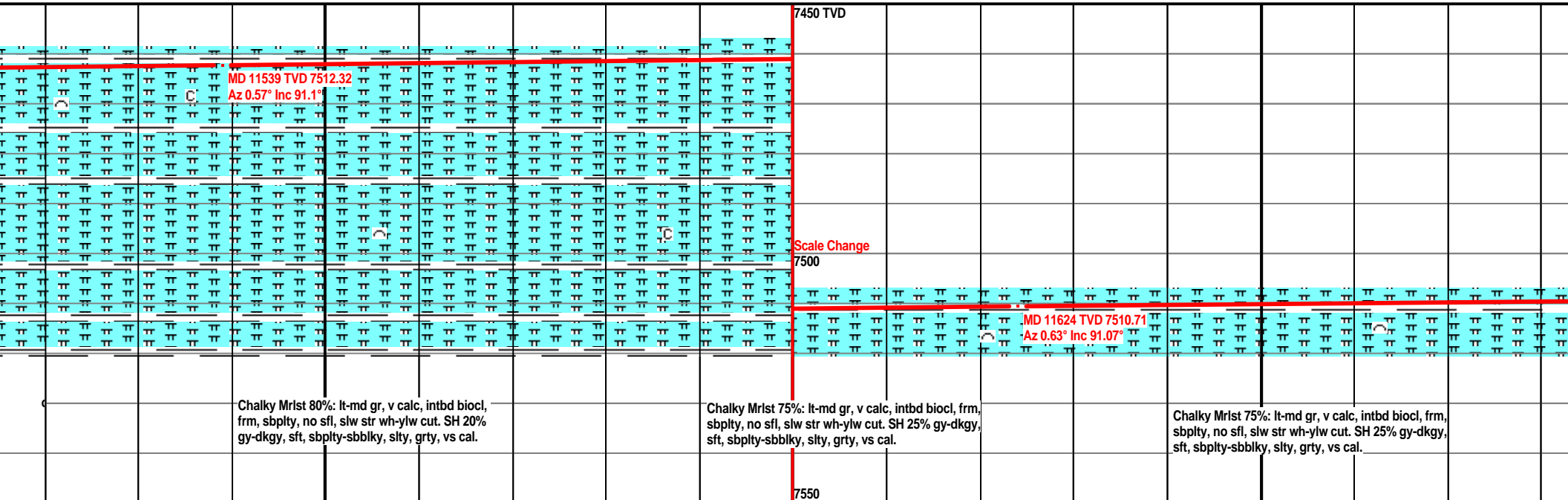
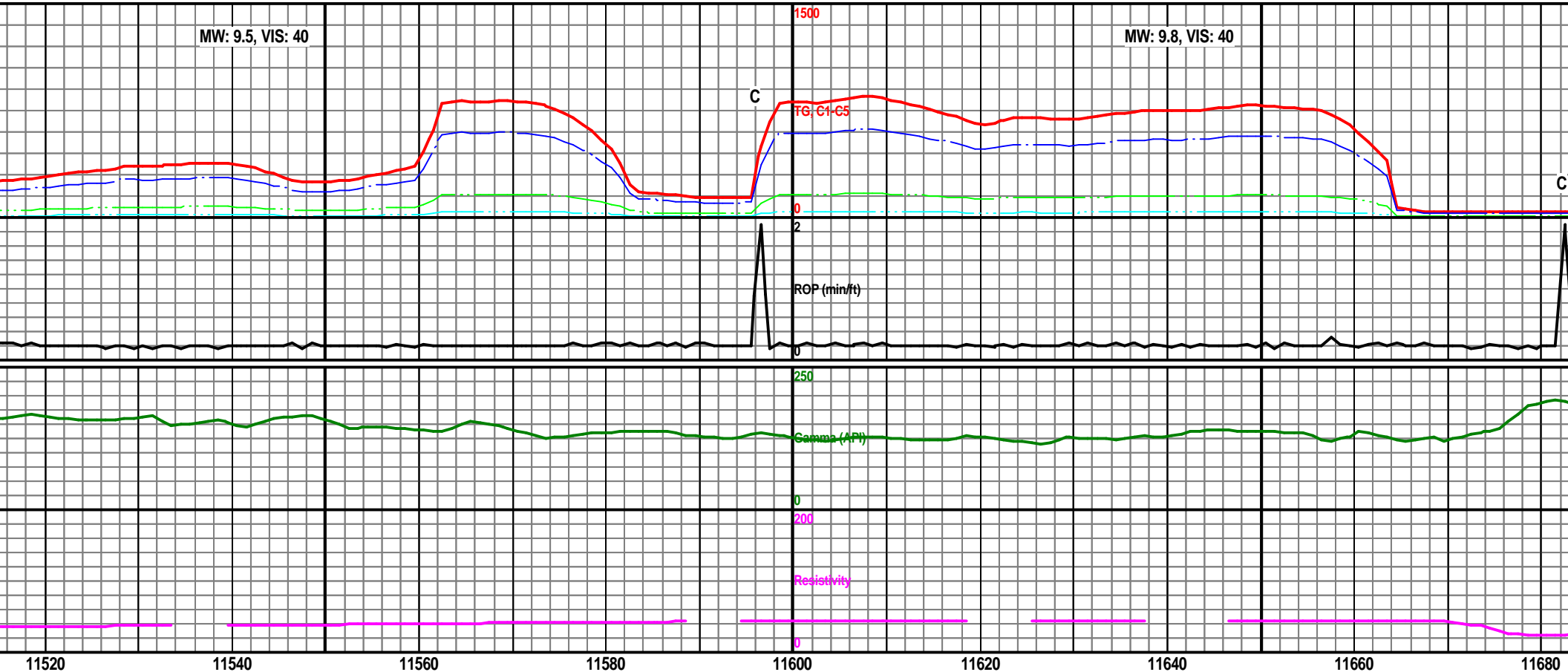


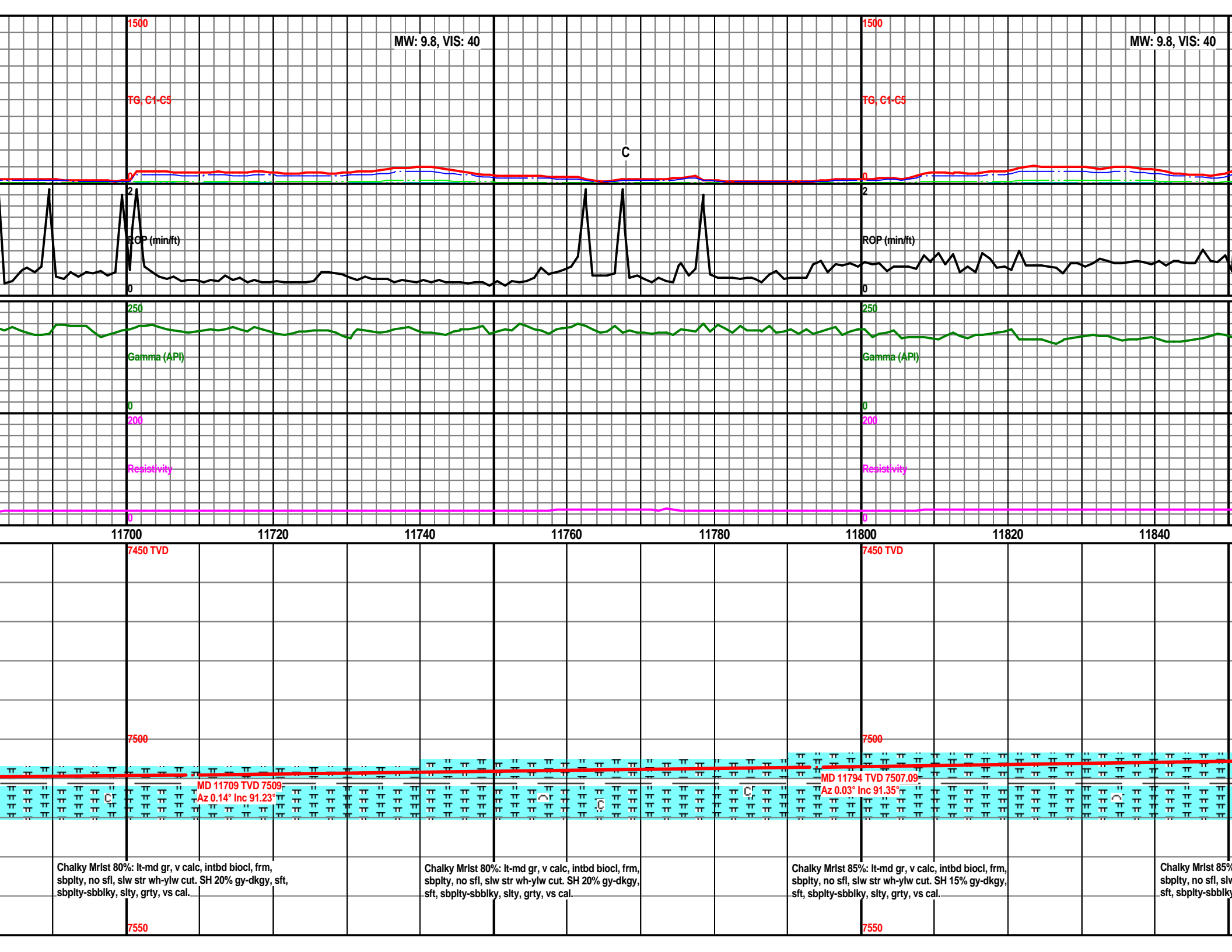


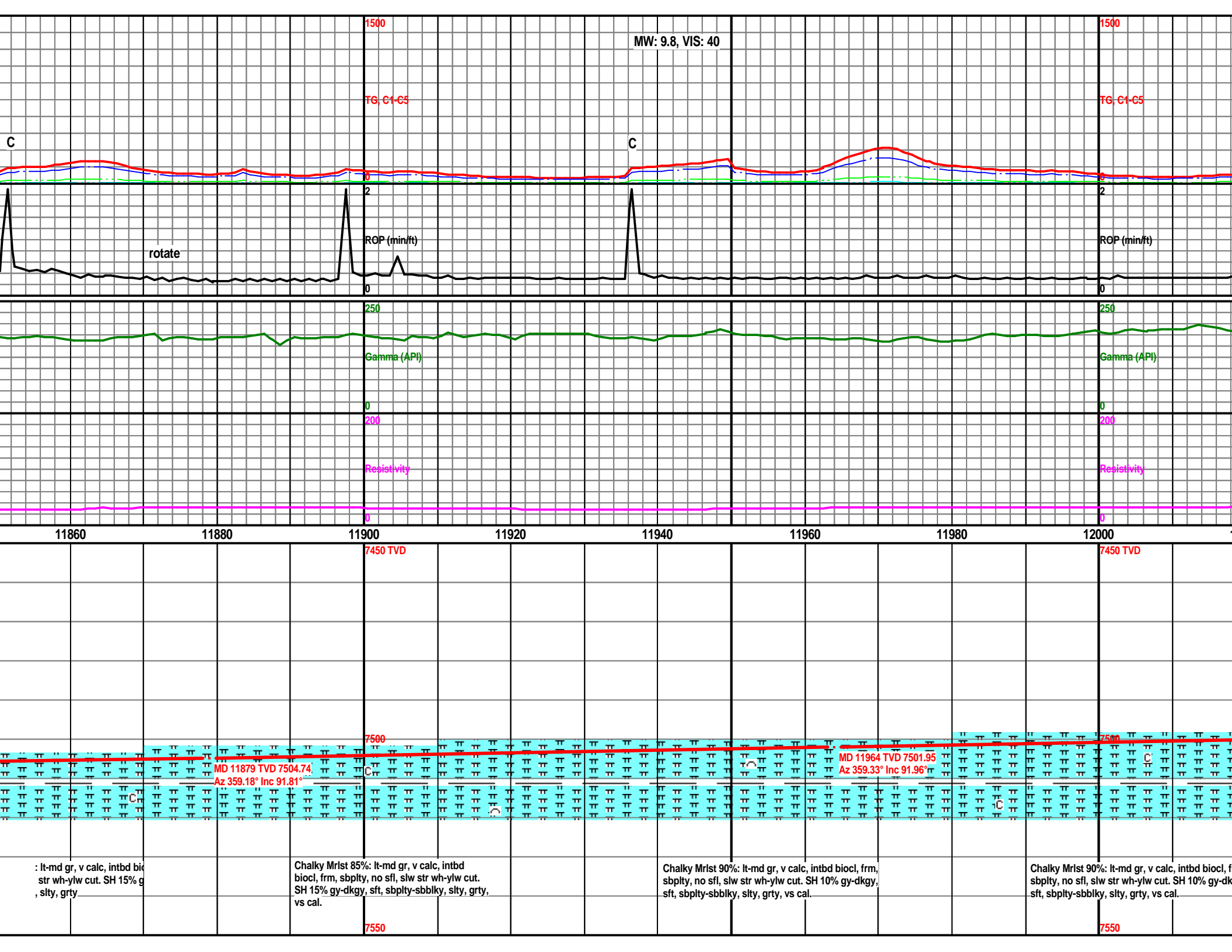


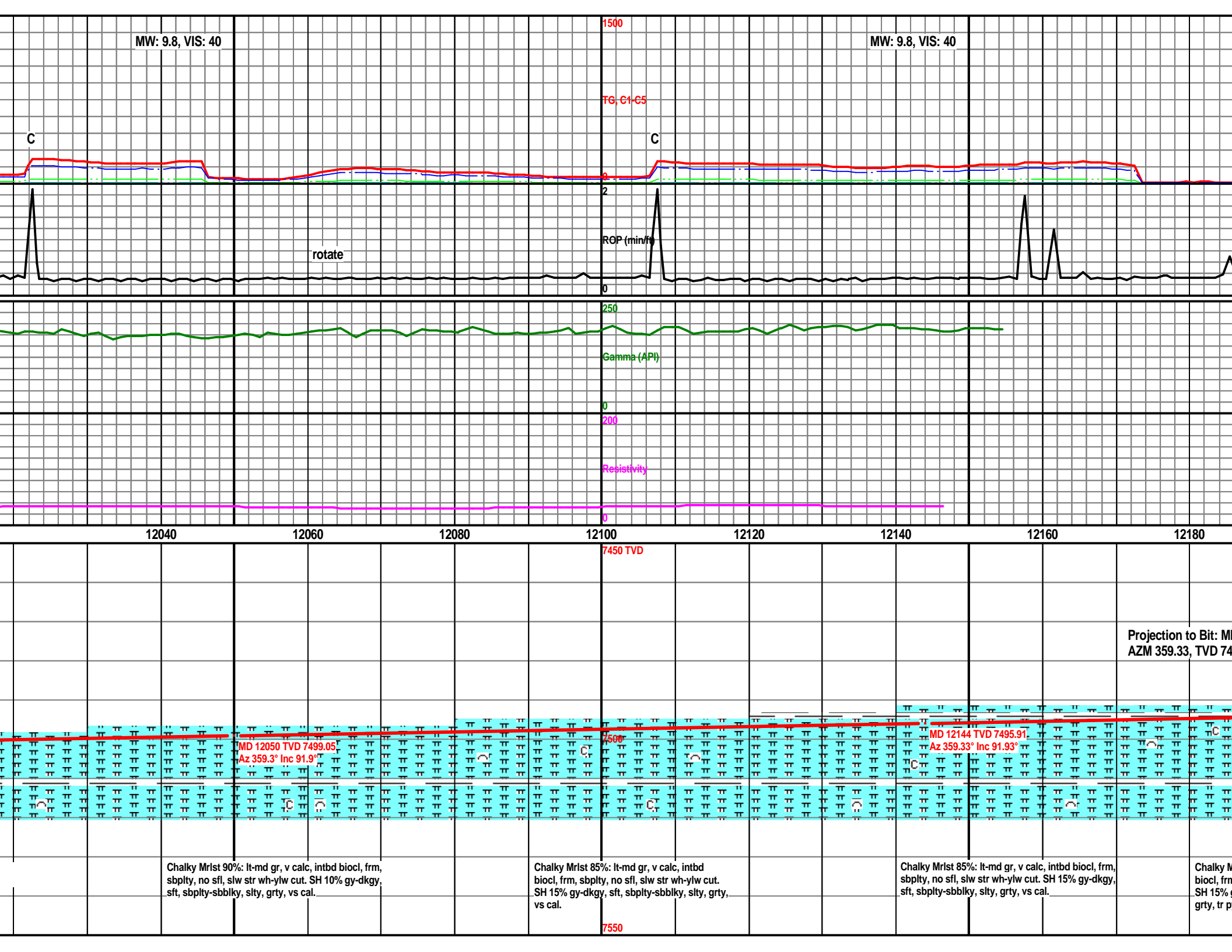
MW: 9.5, VIS: 40

MW: 9.8, VIS: 40









1500

TD of 12201' MD achieved  
8/5/2013 8:17PM. T.O.O.H to  
run liner.

TG: C1-C5

Max Casing Gas = 6195 U

C

0

2

ROP (min/ft)

0

250

2 man logging unit with  
sample program and gas  
analyzer released 08/07/13.

0

200

Resistivity

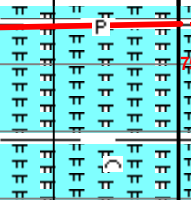
0

12200

122

7450 TVD

1



MD 12201 TVD 7494  
5 Az 359.33° Inc 91.93°

rist 85%: lt-md gr, v calc  
, sbpity, no sfl, slw str wh-y  
y-dkgy, sft, sbpity-sbblk

7550