

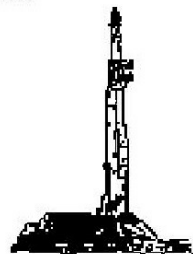
**GOOLSBY BROTHERS**  
and associates, inc.

575 Union Blvd, Suite 208  
Lakewood, CO 80228  
303-945-2860 Office



Geological Wellsite  
Supervision

[www.goolsbybrothers.com](http://www.goolsbybrothers.com)



Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: HOOD 11N-22B-M

API: 051234437400

Location: SE/SE Section 20 T6N R66W Weld County, CO.

License Number:

Spud Date: May 13, 2017

Surface Coordinates: 725 FSL 1122 FEL SESE Sec. 20 T6N R66W

Lat/Long: 40.468356/-104.796423

Bottom Hole Coordinates: Planned: 2058 FSL 2611 FWL NESW Sec: 22 Twp: 6N 66W

Ground Elevation (ft): 4,734'

Logged Interval (ft): 6,600'

To: 15,343'

Formation: Niobrara B Chalk

Type of Drilling Fluid: OBM (LSND Surface).

K.B. Elevation (ft): 4,759'

Total Depth (ft): 15,343' DMTD

Region: Wattenberg

Drilling Completed: May 16, 2017

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

**OPERATOR**

Company: SRC Energy, Inc

Address: 1675 Broadway, Suite 2600  
Denver, Colorado 80202  
(720) 616-4300

**GEOLOGIST**

Name: Blake Stacey & Tekabe Gedamu

Company: Goolsby Brothers & Assoc. (GBA), Inc. ([www.goolsbybrothers.com](http://www.goolsbybrothers.com))

Address: 575 Union Blvd. Suite 208,  
Lakewood CO. 80228  
Tel 303-618-7736

## E-logs

MWD GR from S.C. to 15,330' MD.

## Casing

9 5/8" Surface Casing pre set @ 1,756' MD.

5 1/2" 20# CDC-HDQ HCP-110 Prodduction Liner Run to TD.

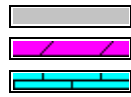
## Comments

- 1) Drilling Contractor: Precision Drilling, Rig #562  
Pumps 1&2: Rostell F-1600 5" x 12" (.0692 Bbls./stroke)  
Toolpusher: Michael Ellingsworth, James Gardner.
- 2) Company Man: Kent Priddy  
Kevin Brakovec  
Tim Jones
- 3) Mud Comapny : Reliable Drilling Fluids  
Engineer: Wally Yates, Scott Allen
- 4) Directional Drilling: Baker Hughes  
Drillers: Aaron Herskind, Ryan Kielian, Jeremiah Samson  
MWD: Carlos Lopez, Baker Remote Field Operations.
- 5) Gas Equipment: Pason Gas Analyzer (Spectrometer)  
Gas readings low due to new shaker design.
- 6) Wellsite Geologist: Blake Stacey, & Tekabe Gedamu

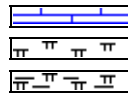
## ROCK TYPES



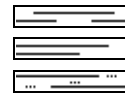
Bent  
Cht  
Clyst



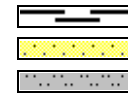
Oil sat.  
Dol  
Lmst



Chalk  
Mrlst  
Mrlst\_sh (intbdd)



Shale  
Shgy  
Slty sh



Carb sh  
Ss  
Slstst

## ACCESSORIES

### MINERAL

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

Gyp  
 Hvymin  
 Kaol  
 Marl  
 Minxl  
 Nodule  
 Phos  
 Pyr  
 Salt  
 Sandy  
 Silt  
 Sil  
 Sulphur  
 Tuff

### FOSSIL

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

Ostra  
 Pelec  
 Pellet  
 Pisolite  
 Plant  
 Strom

### STRINGER

Chlkstg  
 Arg  
 Bent  
 Dol  
 Ls  
 Mrst  
 Sltstrg  
 Ssstrg

### TEXTURE

Boundst  
 Chalky  
 Cryxln  
 Earthy  
 Finexln  
 Grainst  
 Lithogr  
 Microxln  
 Mudst  
 Packst  
 Wackest

## OTHER SYMBOLS

### OIL SHOWS

Even  
 Spotted  
 Ques  
 Dead  
 Vspotty

near even

### POROSITY TYPE

Earthy  
 Fenest  
 Fracture

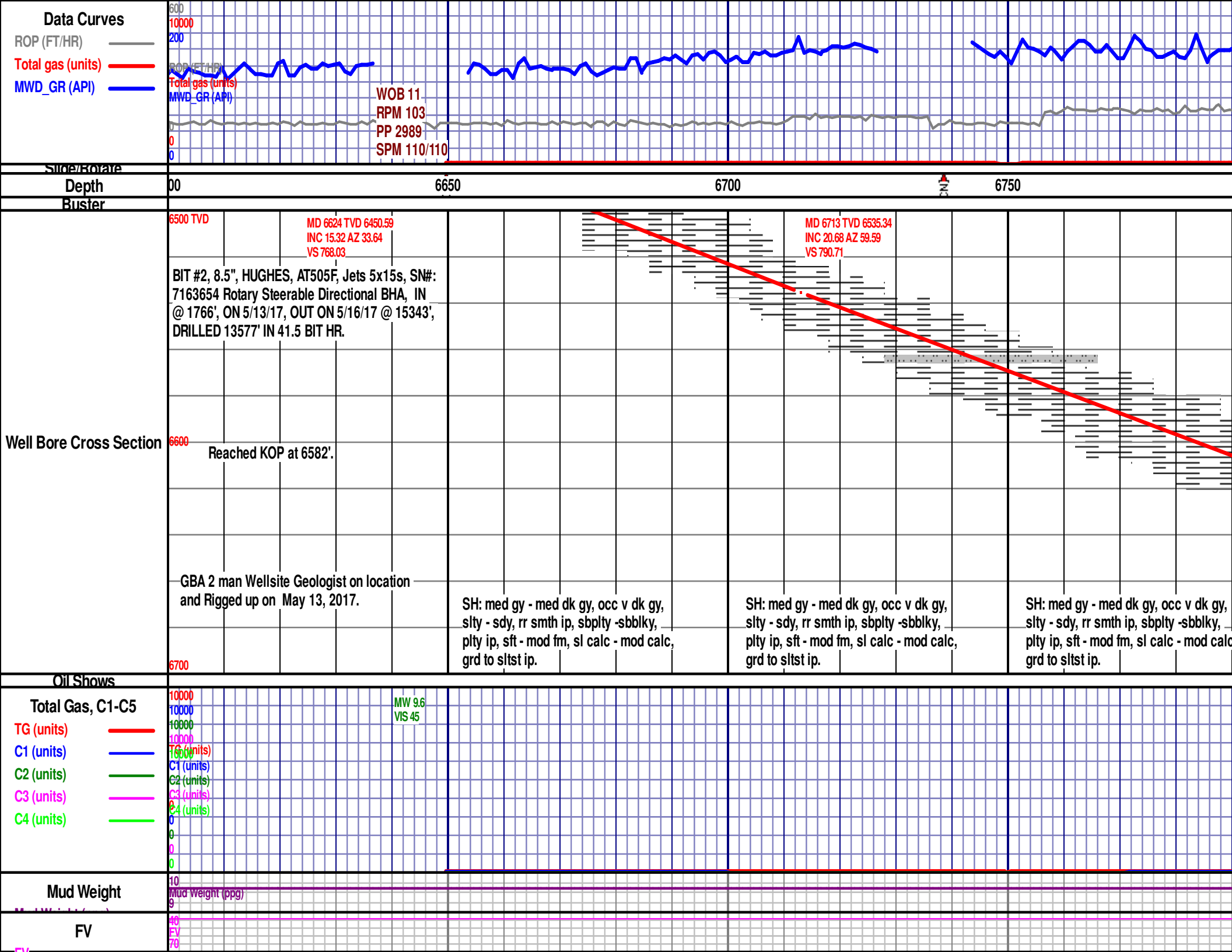
Inter  
 Moldic  
 Organic  
 Pinpoint  
 Vuggy

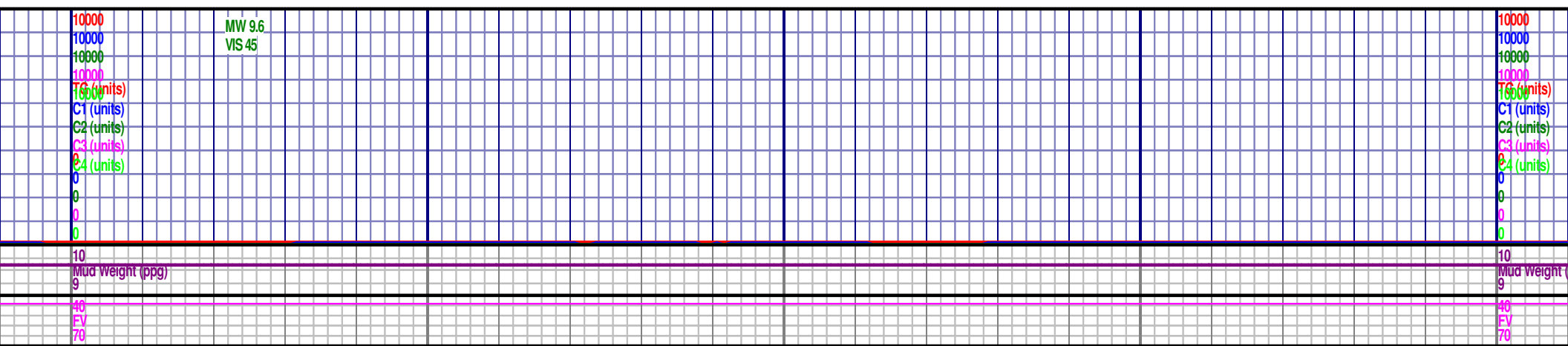
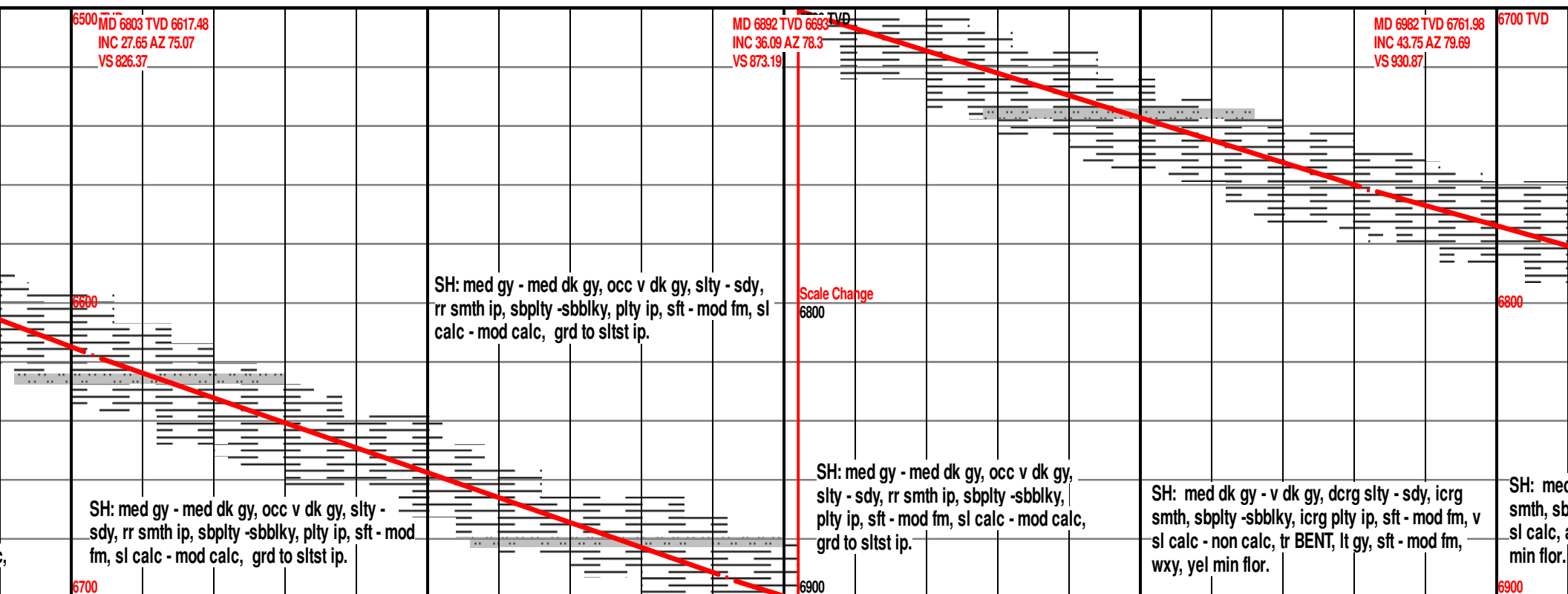
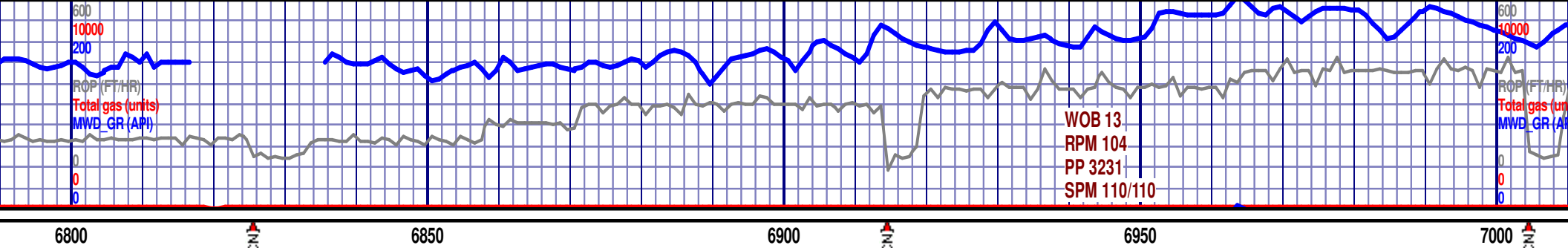
### ROUNDING

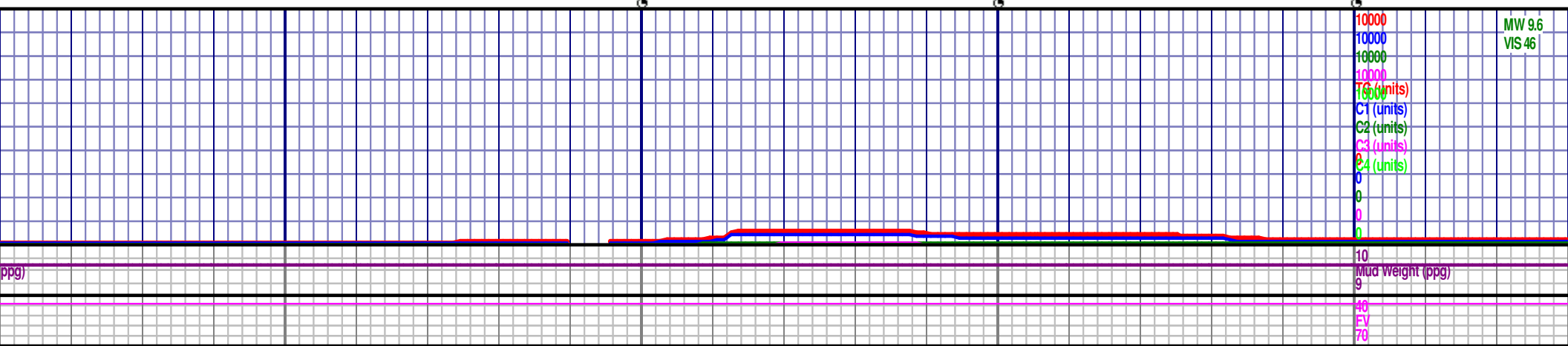
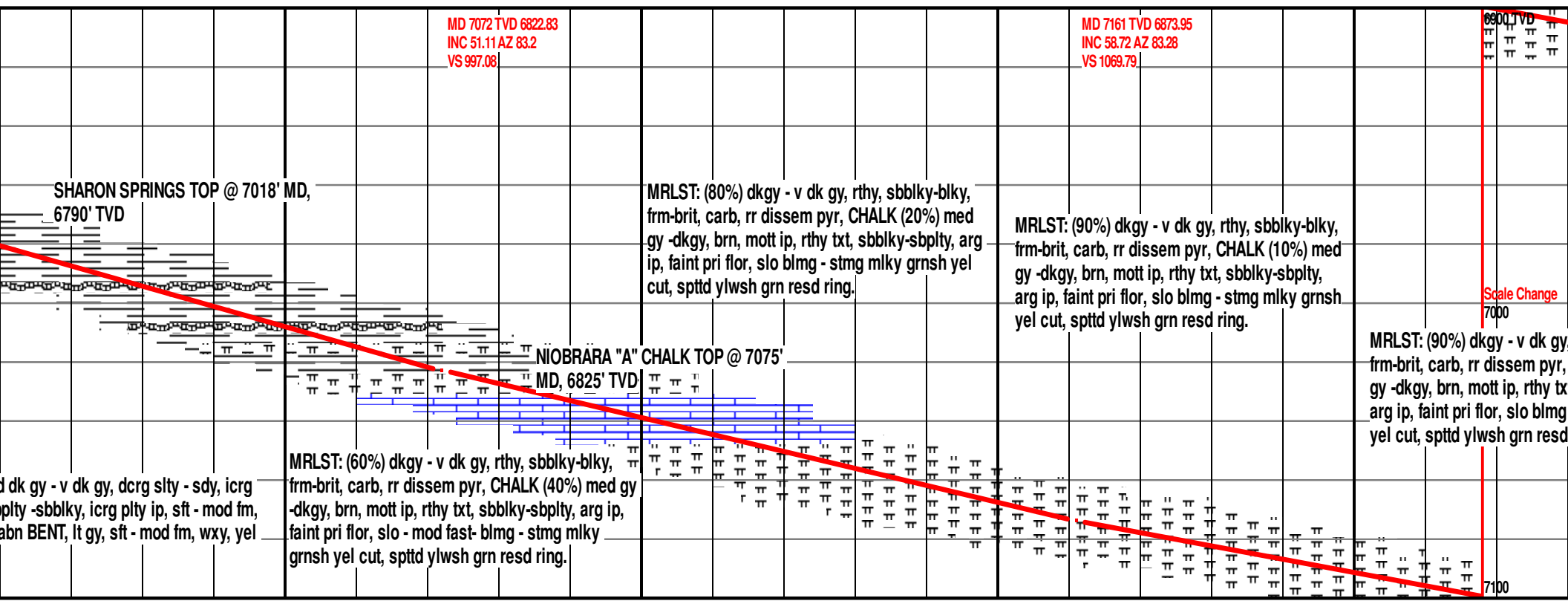
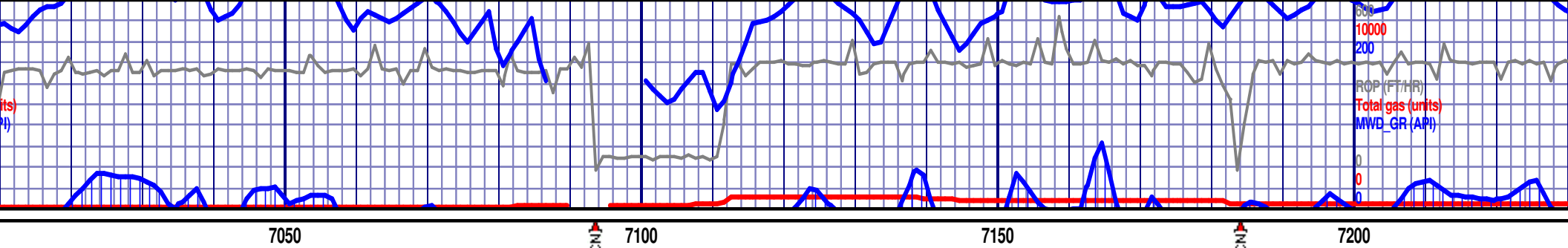
Rounded  
 Subrnd  
 Subang  
 Angular

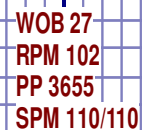
### SORTING

Well  
 Moderate  
 Poor









MD 7340 TVD 6944.43  
INC 71.68 AZ 79.43  
VS 1233.84

6900 TVD

MD 7430 TVD 6966.3  
INC 80.17 AZ 78.74  
VS 1321.01

NIOBRARA UPPER "B" MARL TOP @  
7377' MD, 6954' TVD

CHALK (10%) med  
- stmg milky grnsh  
ring.

MRLST: (90%) dkgy - v dk gy, rthy, sbblky-blky,  
frm-brit, carb, rr dissem pyr, CHALK (10%) med gy  
-dkgy, brn, mott ip, rthy txt, sbblky-sbply, arg ip,  
faint pri flor, slo blmg - stmg mlky grnsh yel cut,  
spttd ylwsh grn resd ring.

MRLST: (90%) dkgy - v dk gy, rthy,  
 sbblky-blky, frm-brit, carb, rr dissem pyr, —  
 CHALK (10%) med gy -dkgy, brn, mott ip, rthy  
 txt, sbblky-sbplty, arg ip, faint pri flor, slo  
 blmg - stmg milky grnsh yel cut, spptd ylwsh  
 grn resd ring.

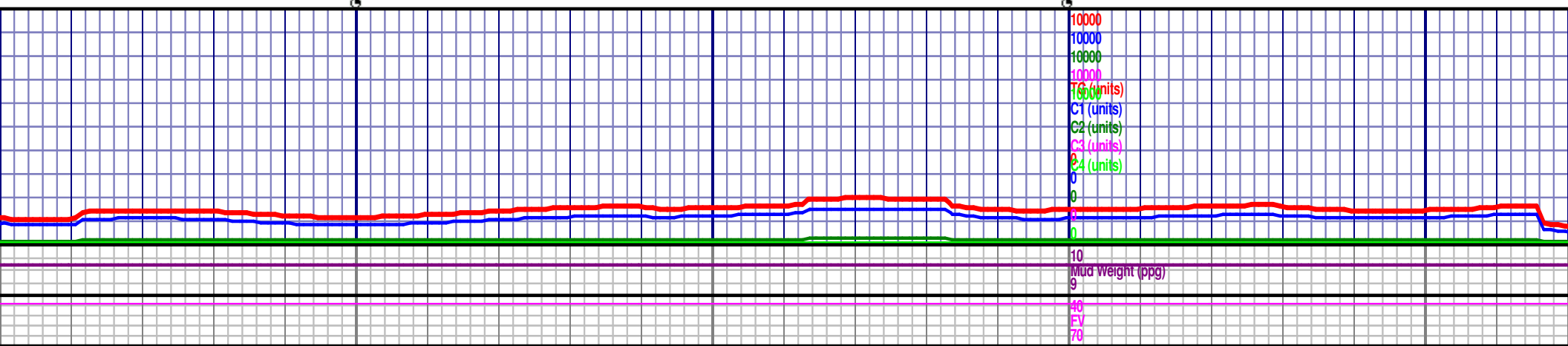
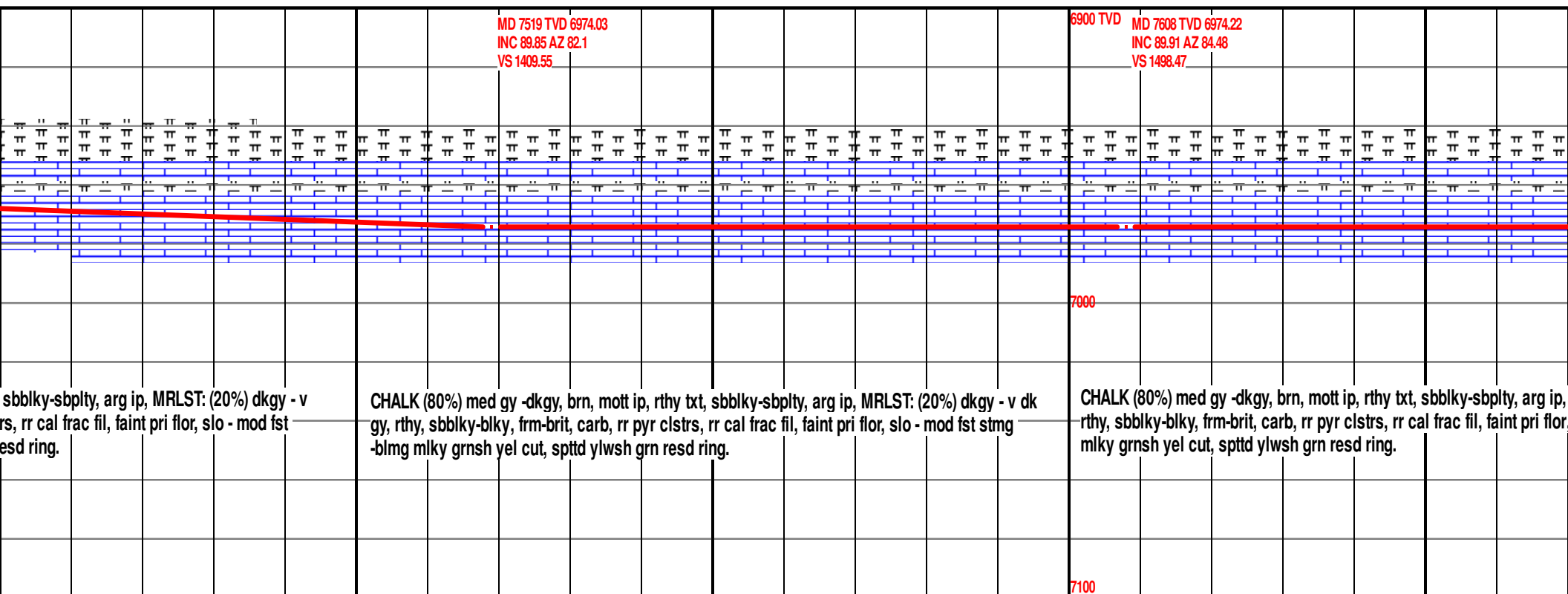
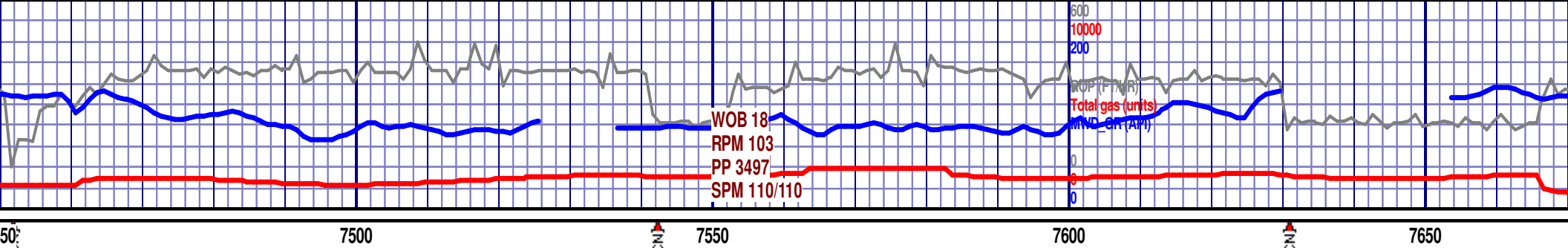
CHALK (70%) med gy -dkgy, brn, mott ip, rthy  
txt, sbblky-sbply, arg ip, MRLST: (30%) dkgy - v-  
dk gy, rthy, sbblky-blky, frm-brit, carb, rr pyr  
clstrs, rr cal frac fil, faint pri flor, slo - mod fst  
stmg -blmg milky grnsh yel cut, spttd ylwsh grn  
resd ring

CHALK (80%) med gy -dkgy, brn, mott ip, rthy txt,  
dk gy, rthy, sbblky-blky, frm-brit, carb, rr pyr clstr  
strng -blmg milky grnsh yel cut, spstd ylwsh grn r



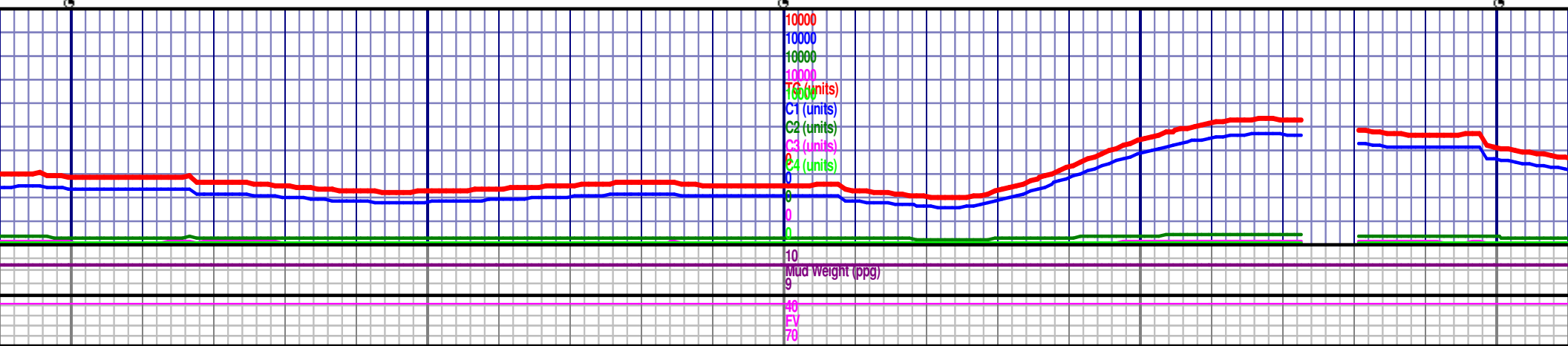
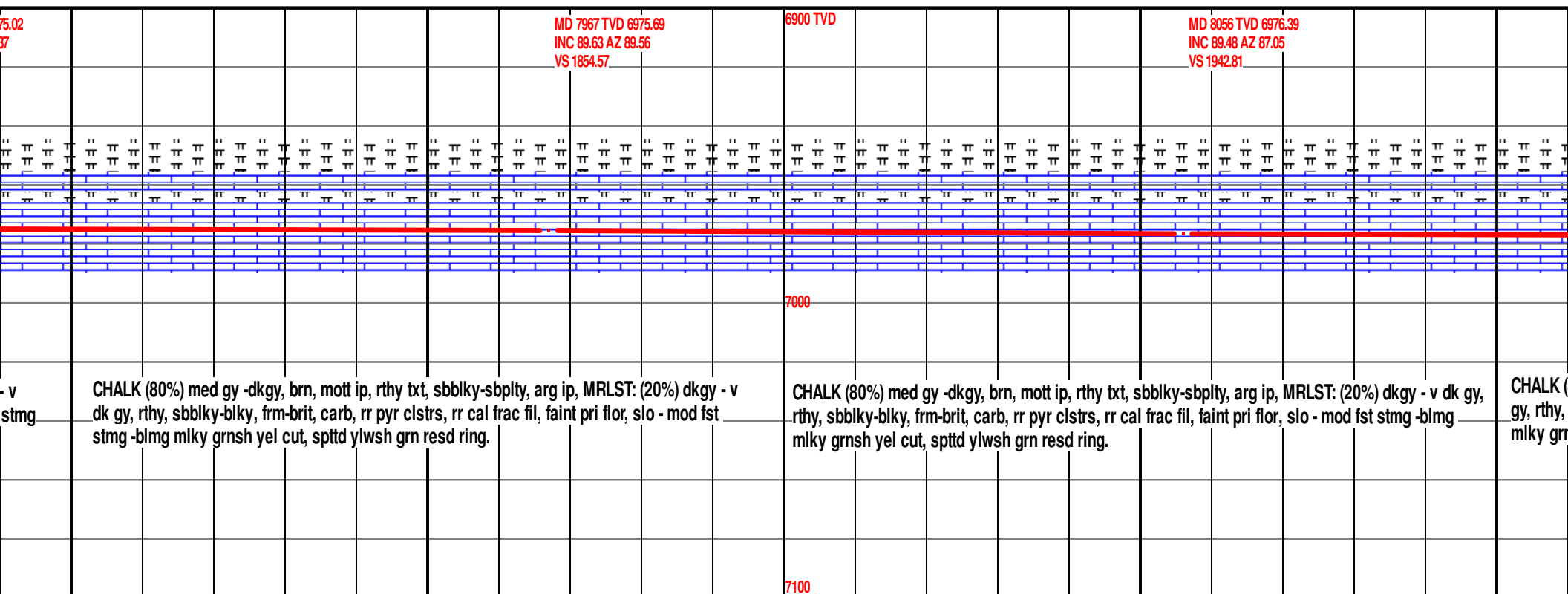
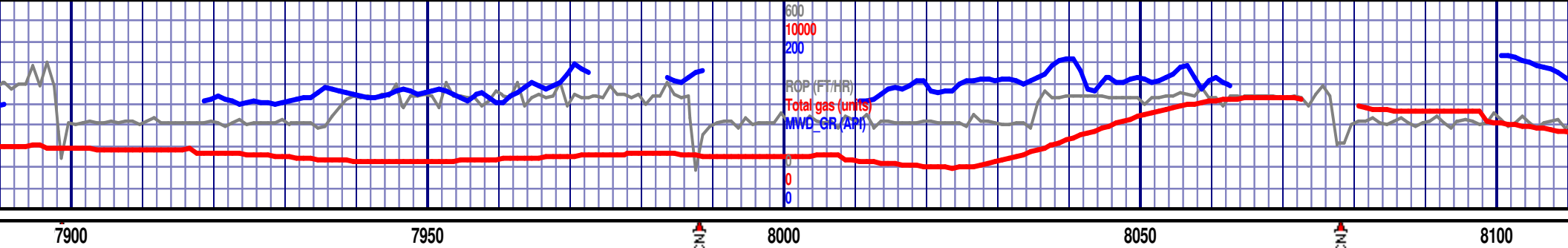
10  
Mud Weight (ppg)

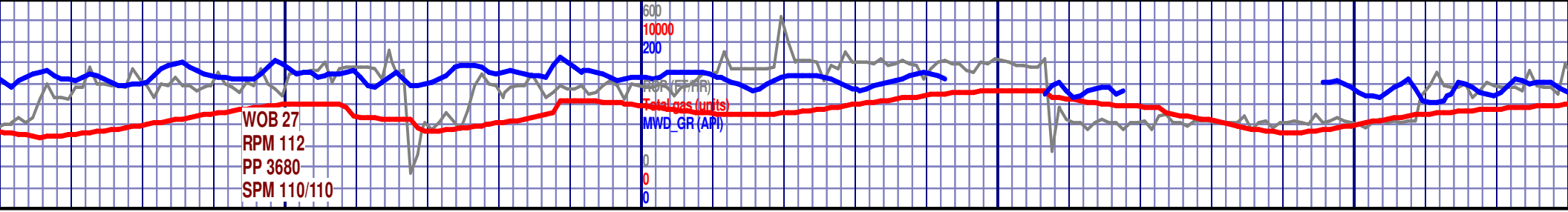
40  
FV  
70



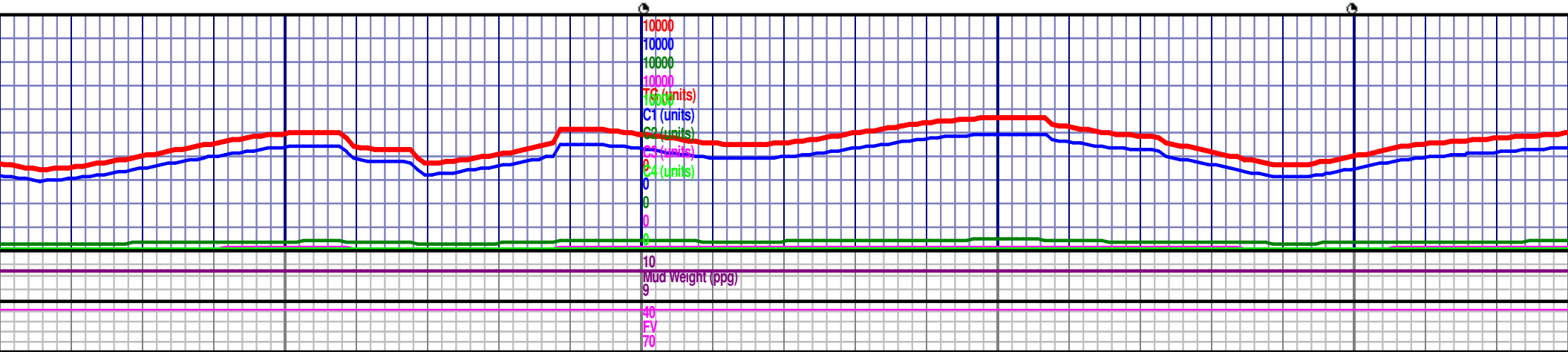
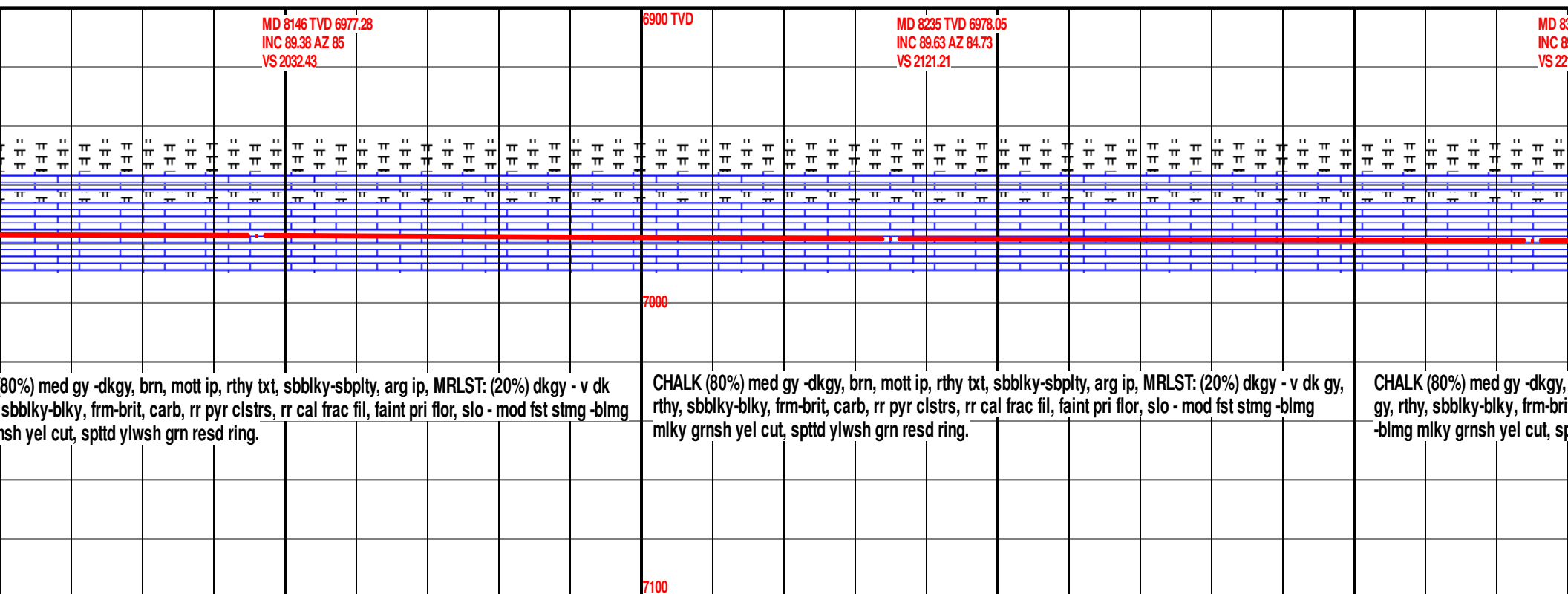


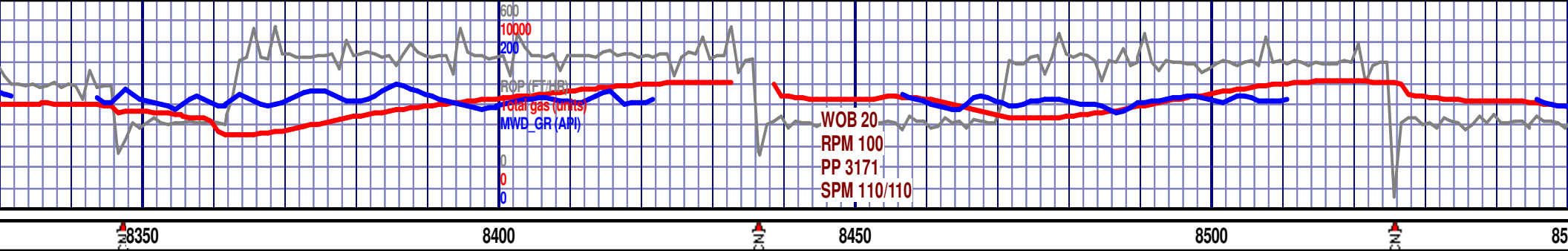






8150 8200 8250 8300





MD 825 TVD 6978.58  
INC 89.69 AZ 85.48  
VS 10.97

MD 6900 TVD

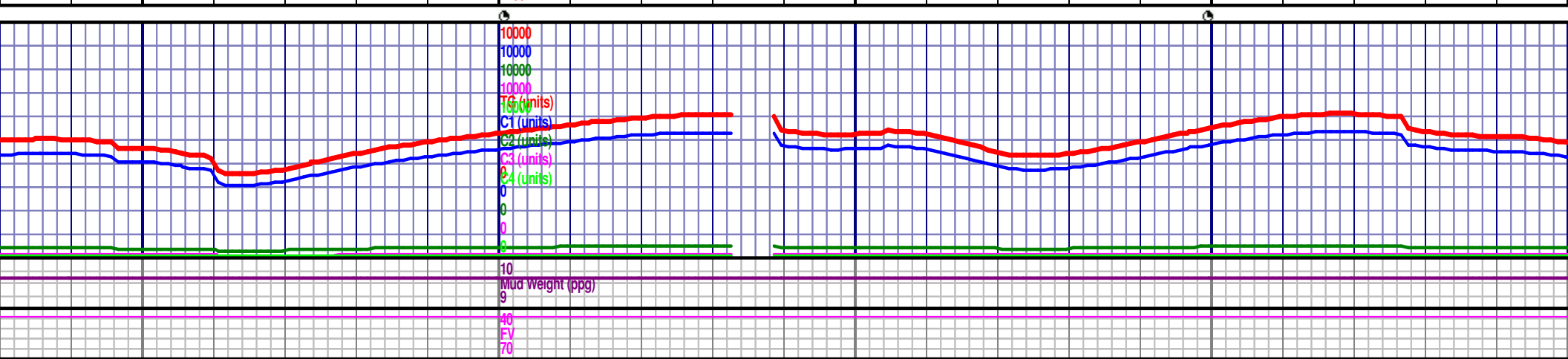
MD 8414 TVD 6978.94  
INC 89.85 AZ 84.94  
VS 2299.71

MD 8504 TVD 6979.23  
INC 89.78 AZ 83.71  
VS 2389.54

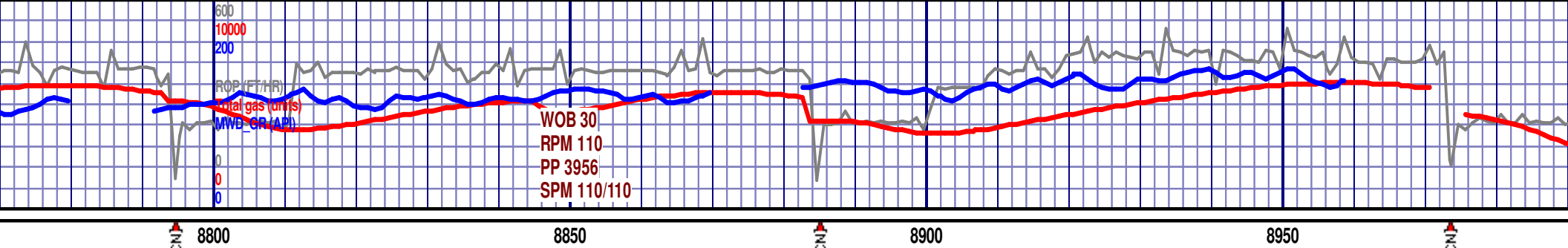
brn, mott ip, rthy txt, sbblky-sbply, arg ip, MRLST: (20%) dkgy - v dk  
t, carb, rr pyr clstrs, rr cal frac fil, faint pri flor, slo - mod fst stmg  
ottd ylwsh grn resd ring.

CHALK (80%) med gy -dkgy, brn, mott ip, rthy txt, sbblky-sbply, arg ip, MRLST: (20%) dkgy - v  
dk gy, rthy, sbblky-blky, frm-brit, carb, rr pyr clstrs, rr cal frac fil, faint pri flor, slo - mod fst  
stmg -blmg mlky grnsh yel cut, spttd ylwsh grn resd ring.

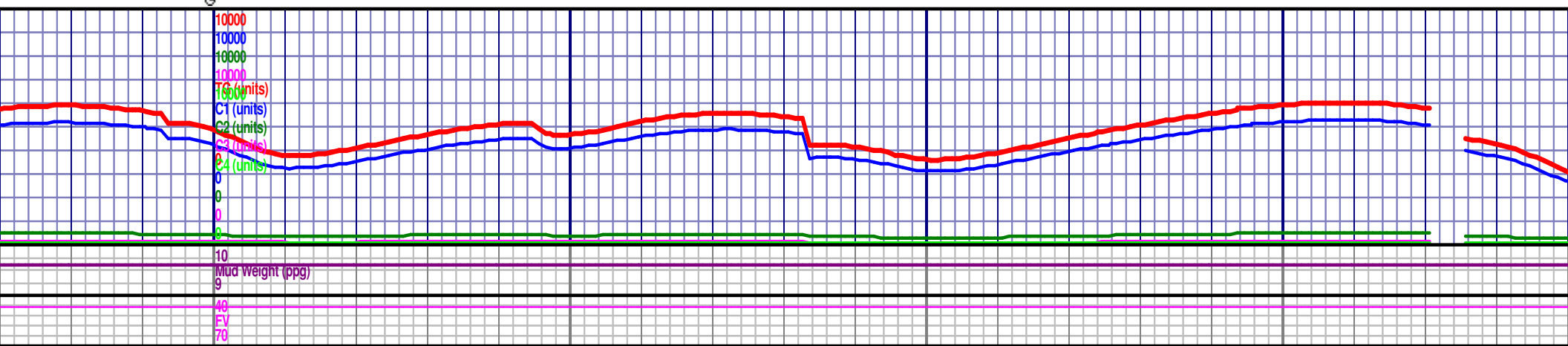
CHALK (80%) med gy -dkgy, brn, mott ip, rthy txt,  
gy, rthy, sbblky-blky, frm-brit, carb, rr pyr clstrs,  
-blmg mlky grnsh yel cut, spttd ylwsh grn resd r

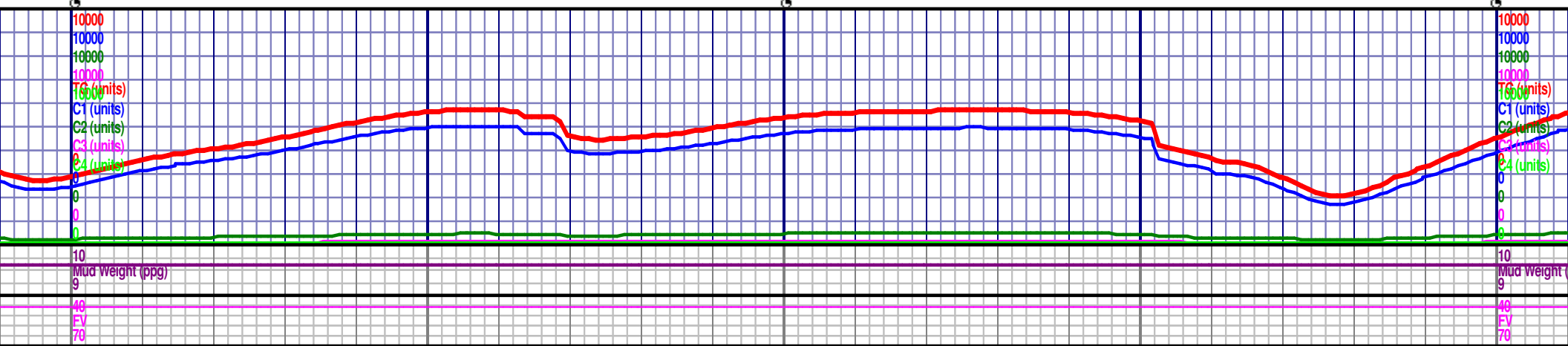
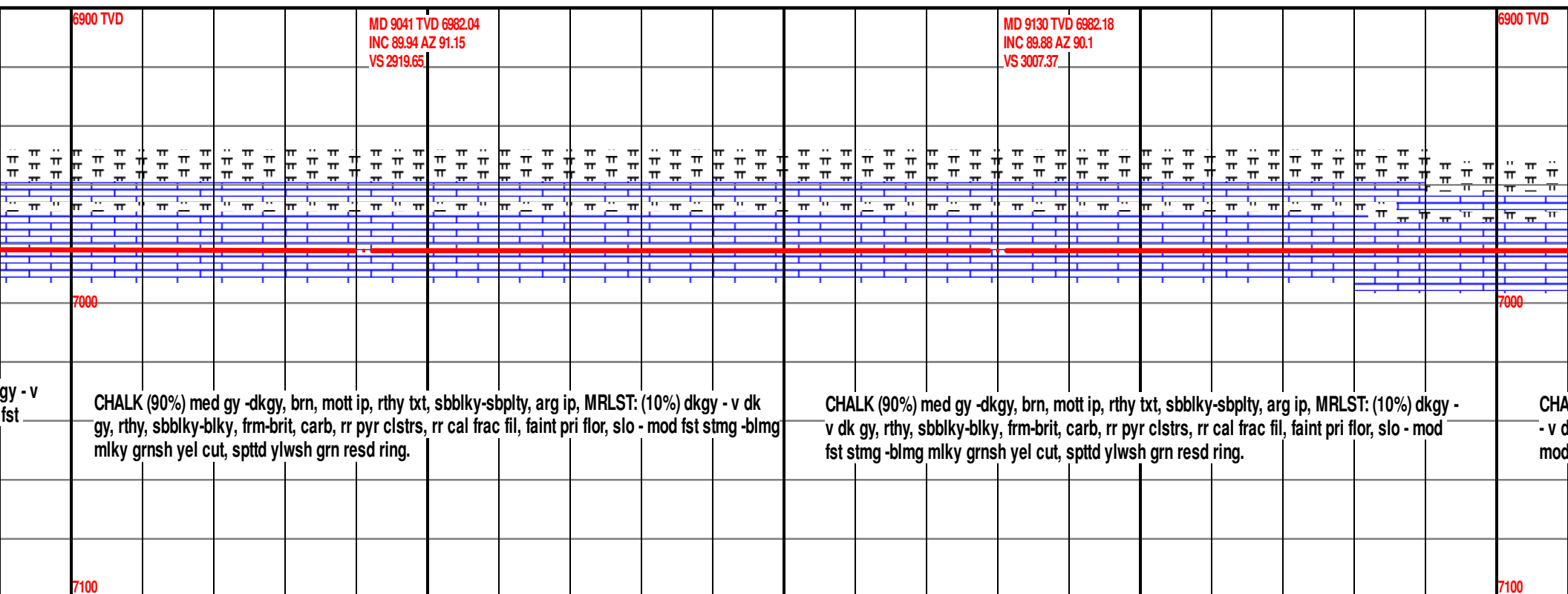
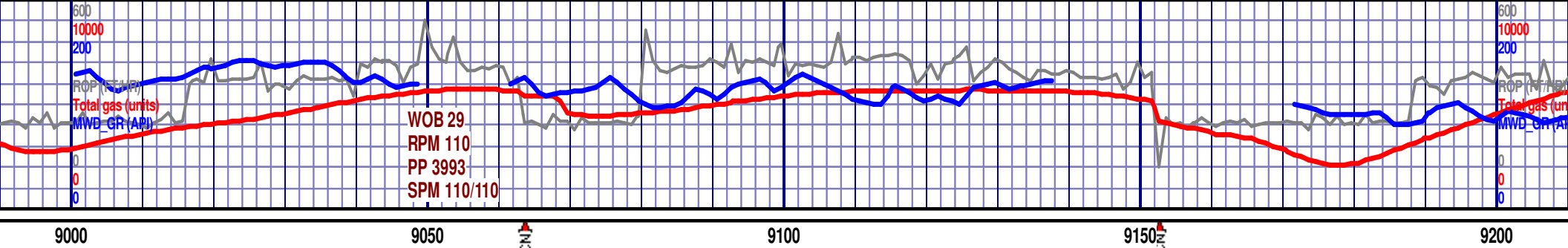






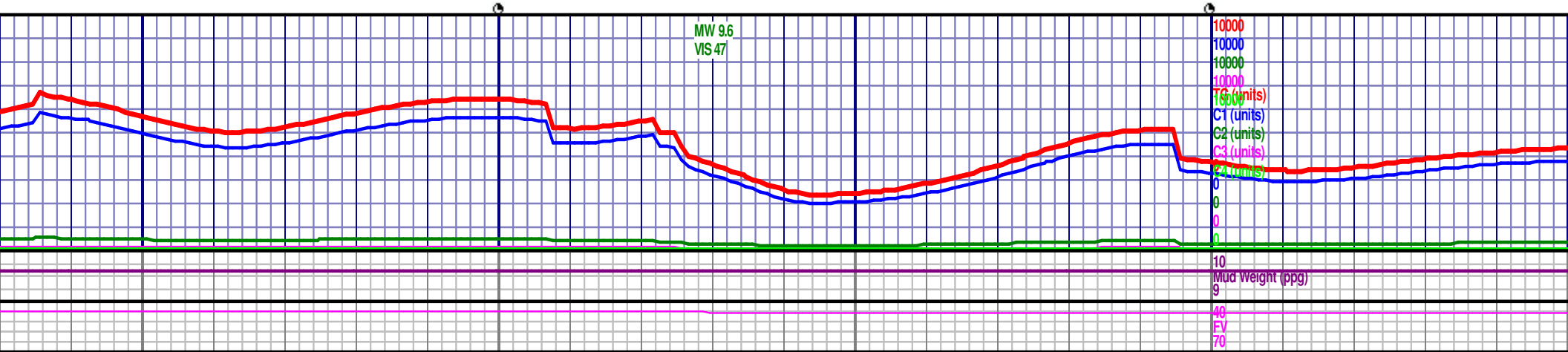
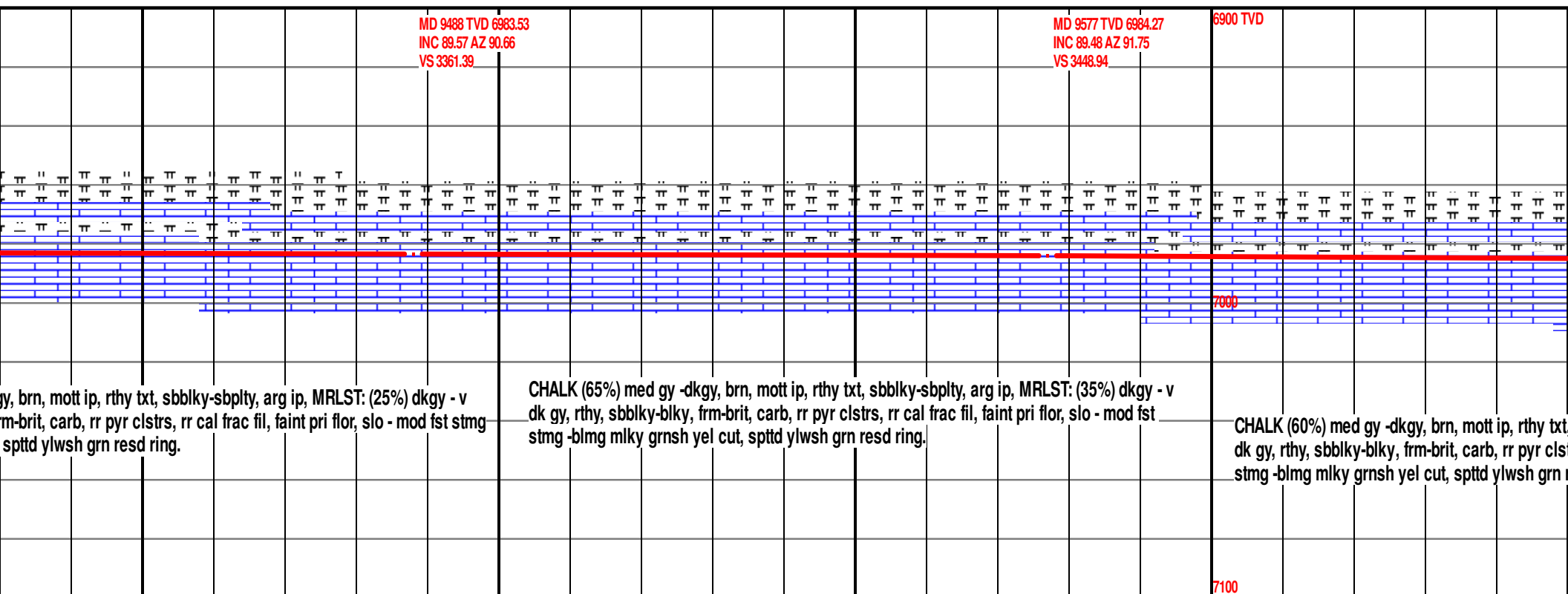
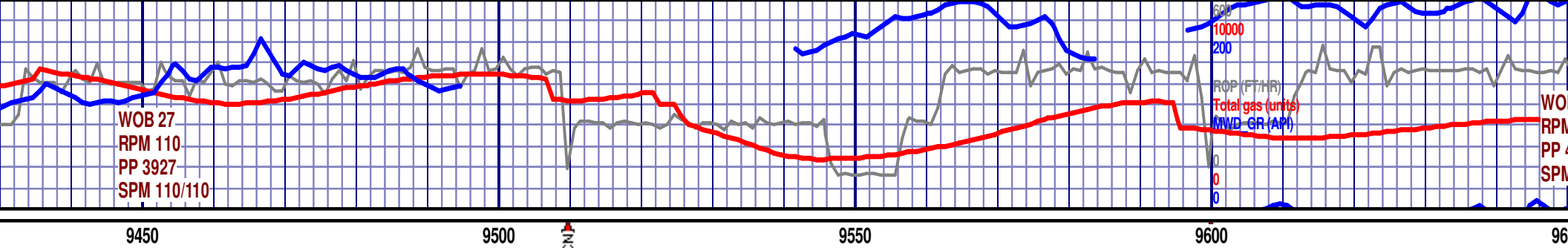
<p>MD 8772 TVD 6980.8 INC 89.57 AZ 91.7 VS 2655.39</p>	<p>6900 TVD</p>	<p>MD 8861 TVD 6981.42 INC 89.63 AZ 91.56 VS 2742.82</p>		<p>MD 8951 TVD 6981.85 INC 89.82 AZ 91.91 VS 2831.21</p>
<p>p, MRLST: (10%) dkgy - v dk ri flor, slo - mod fst stm</p>	<p>CHALK (90%) med gy -dkgy, brn, mott ip, rthy txt, sbblky-sbplty, arg ip, MRLST: (10%) dkgy - v dk gy, rthy, sbblky-blky, frm-brit, carb, rr pyr clstrs, rr cal frac fil, faint pri flor, slo - mod fst stm -blmg mlky grnsh yel cut, spttd ylwsh grn resd ring.</p>			<p>CHALK (80%) med gy -dkgy, brn, mott ip, rthy txt, sbblky-sbplty, arg ip, MRLST: (20%) dk dk gy, rthy, sbblky-blky, frm-brit, carb, rr pyr clstrs, rr cal frac fil, faint pri flor, slo - mod stm -blmg mlky grnsh yel cut, spttd ylwsh grn resd ring.</p>

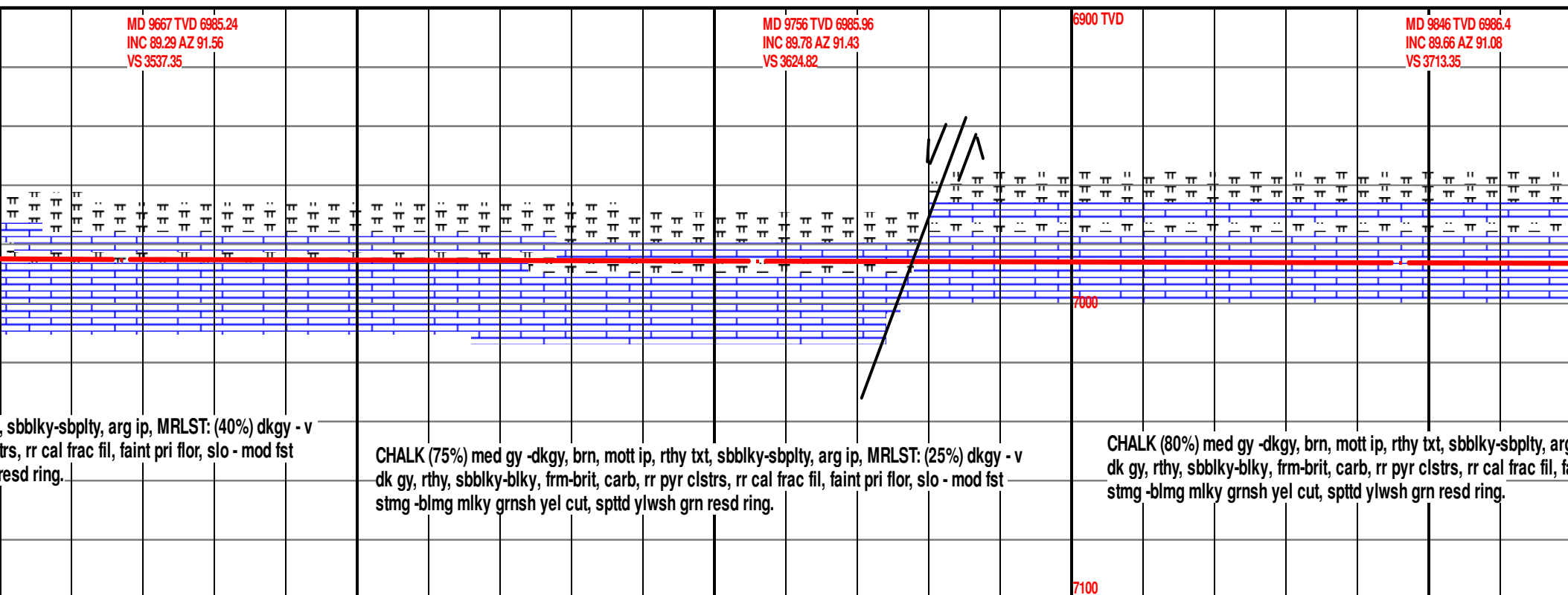


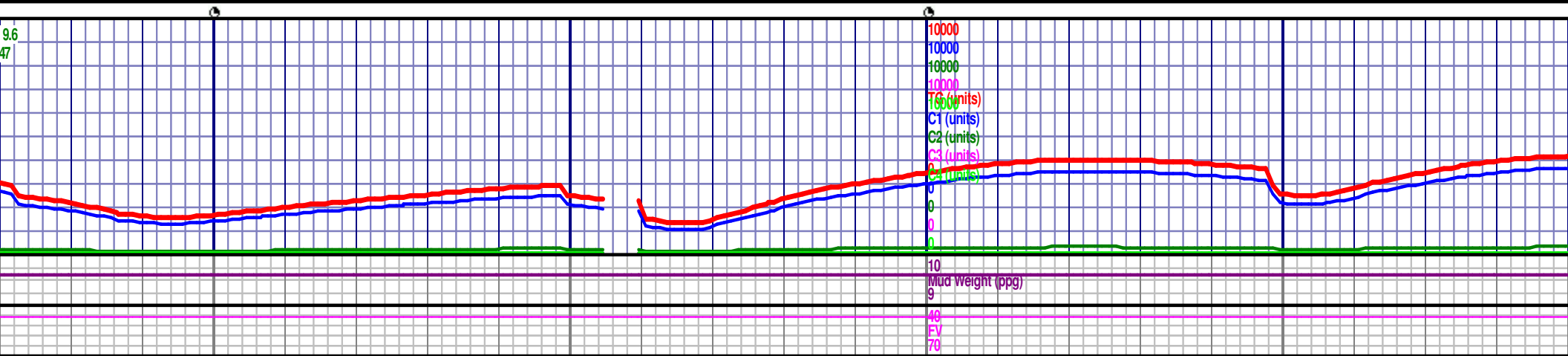
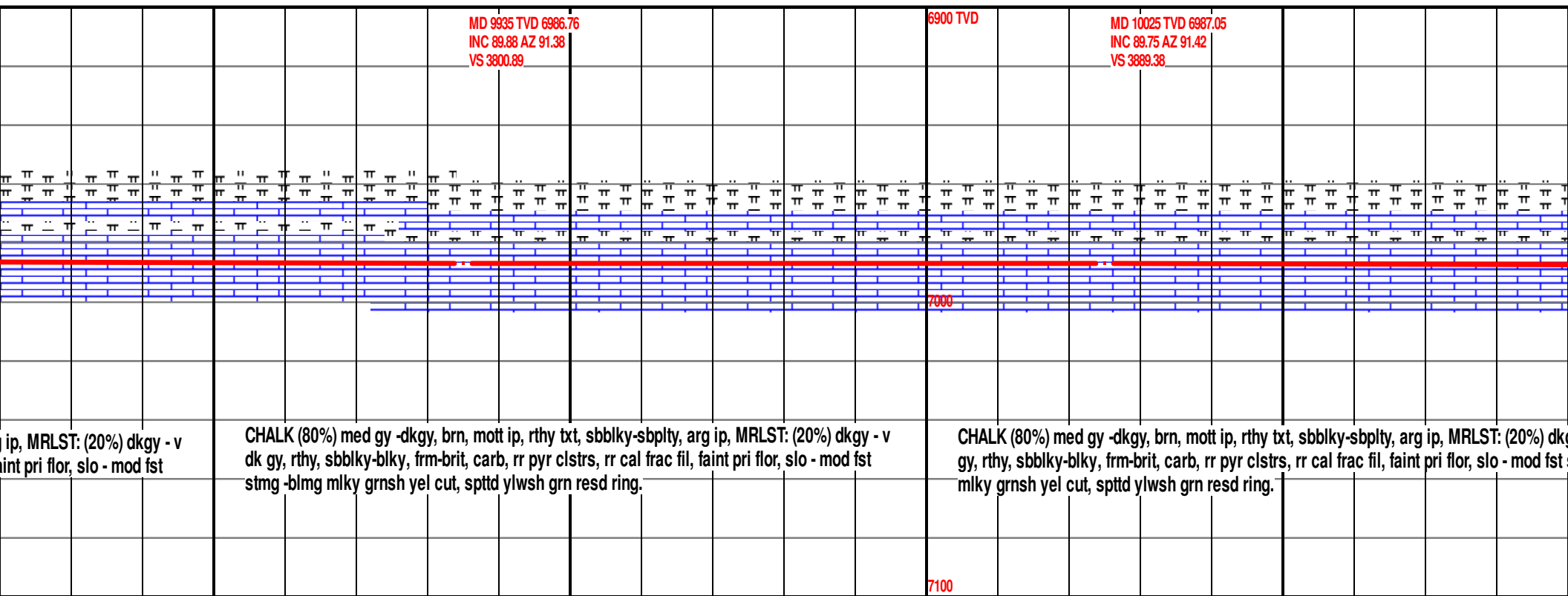
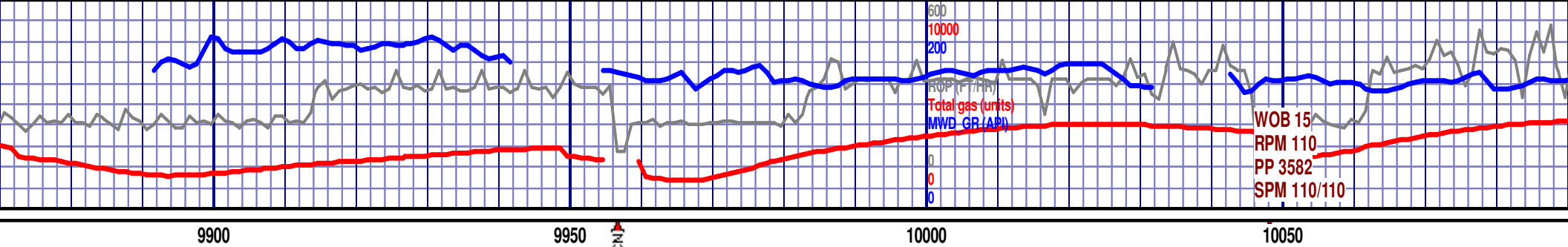




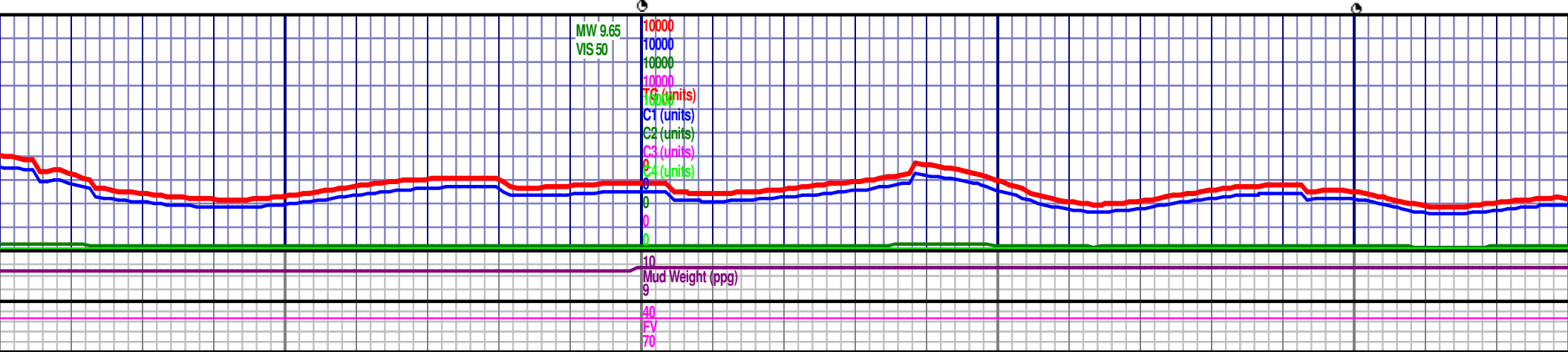
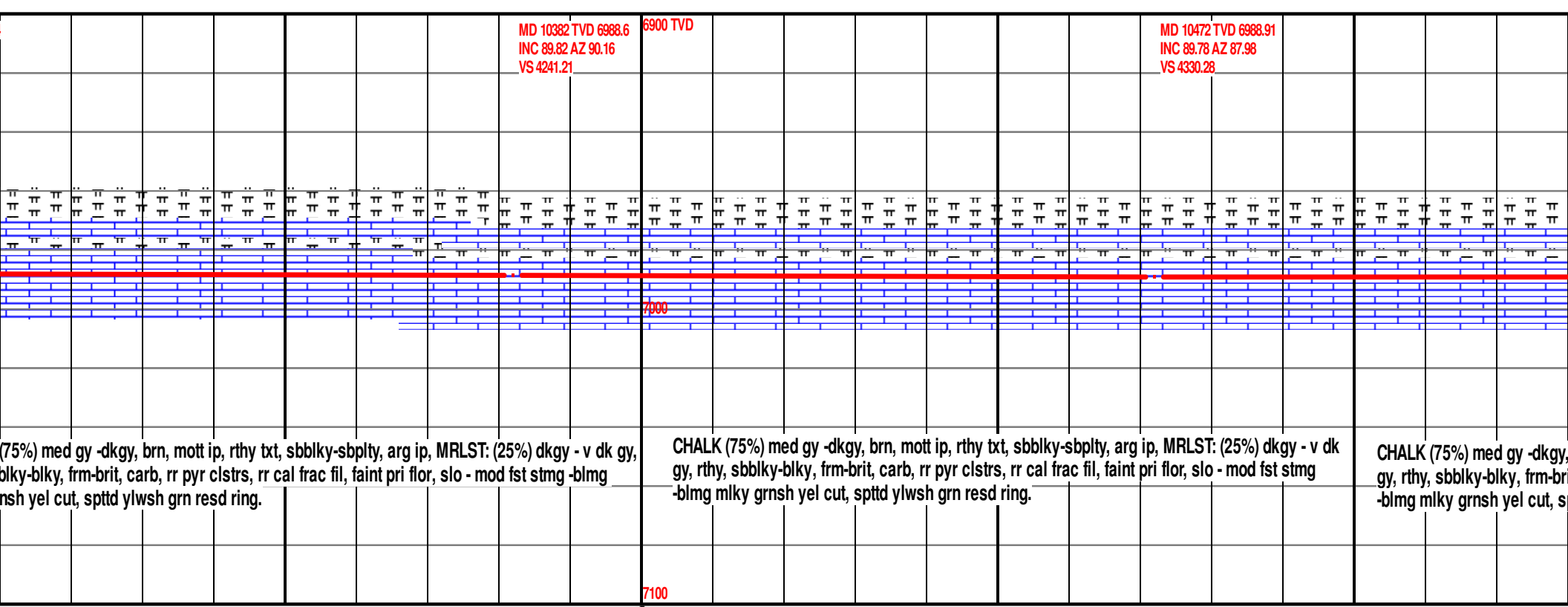
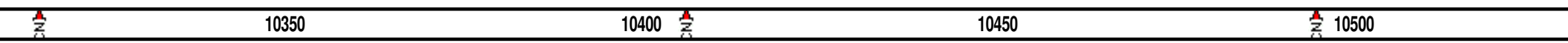
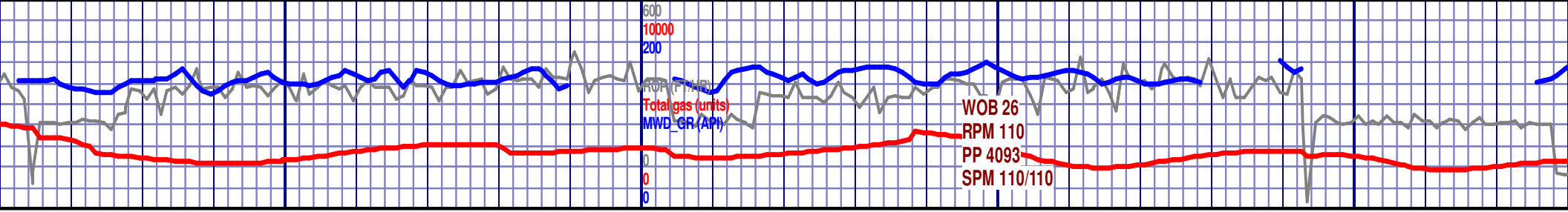




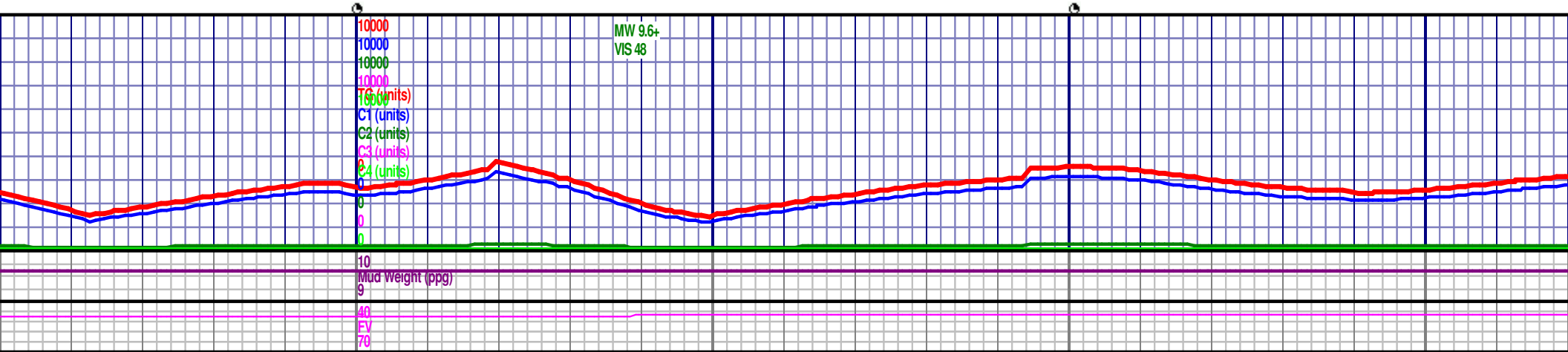
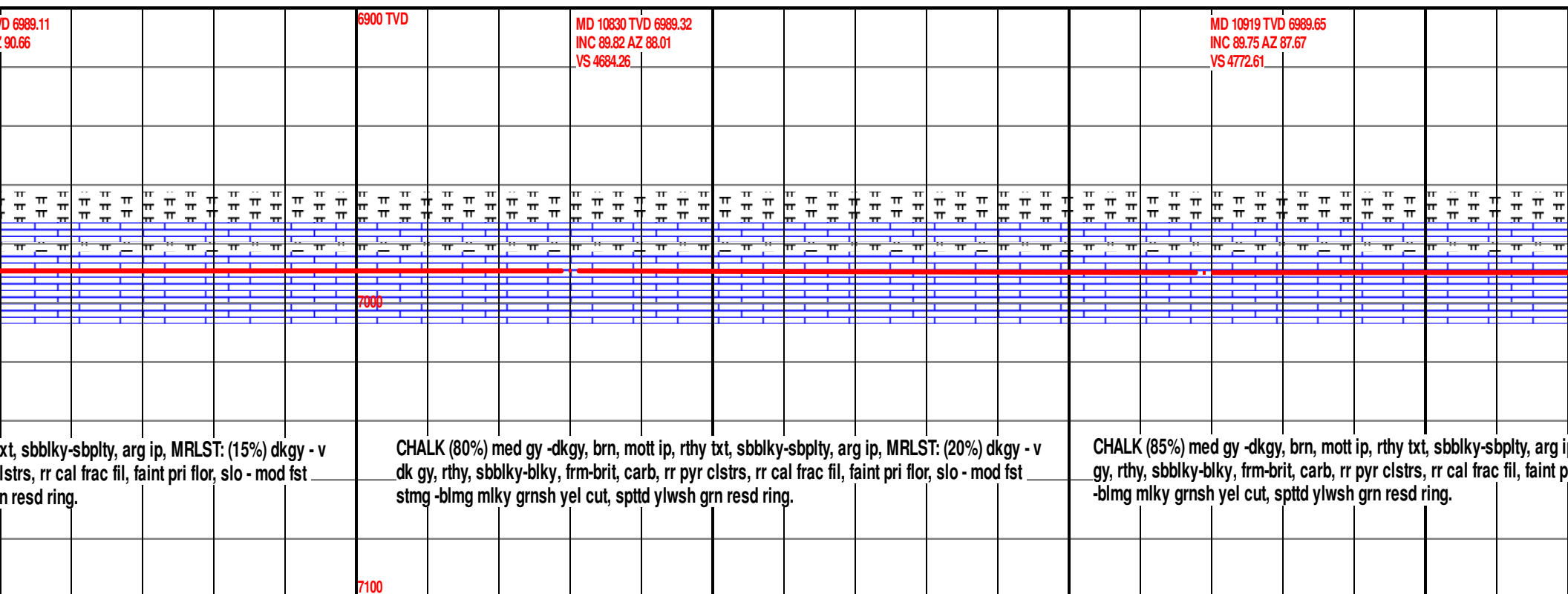
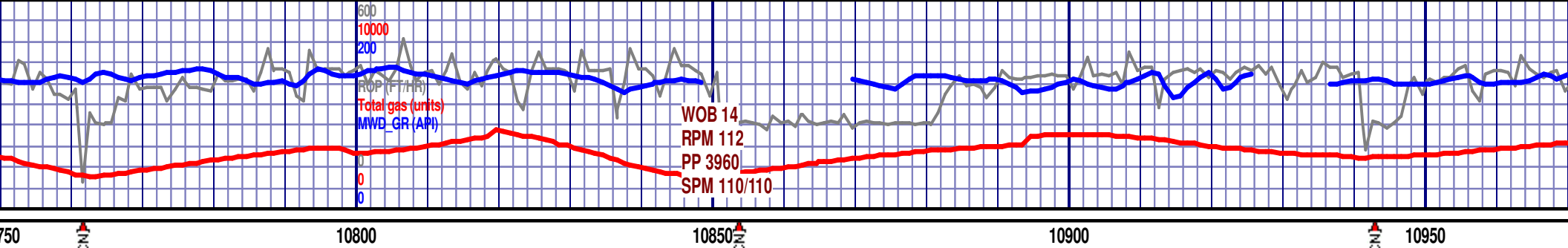


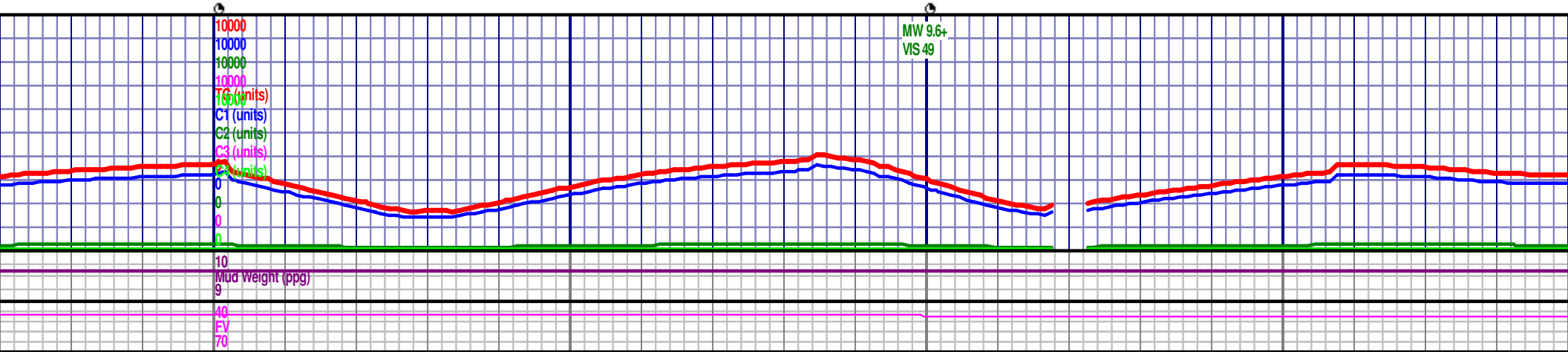
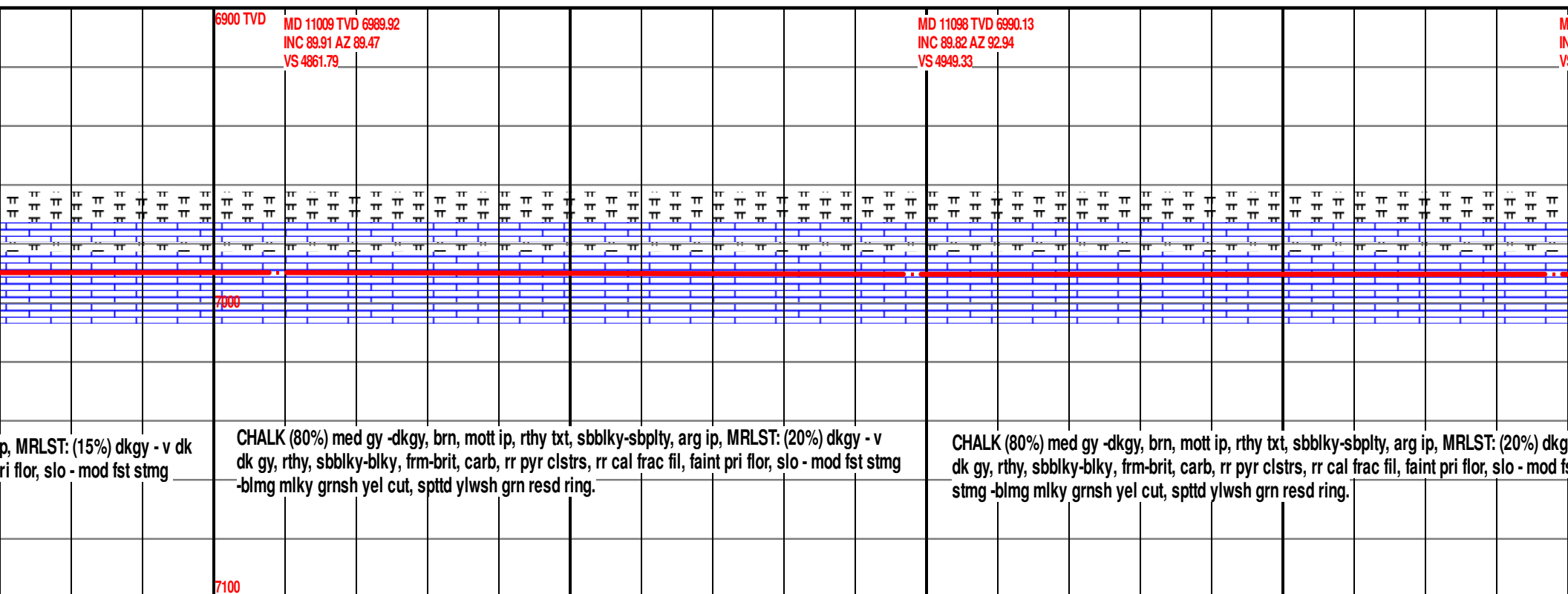
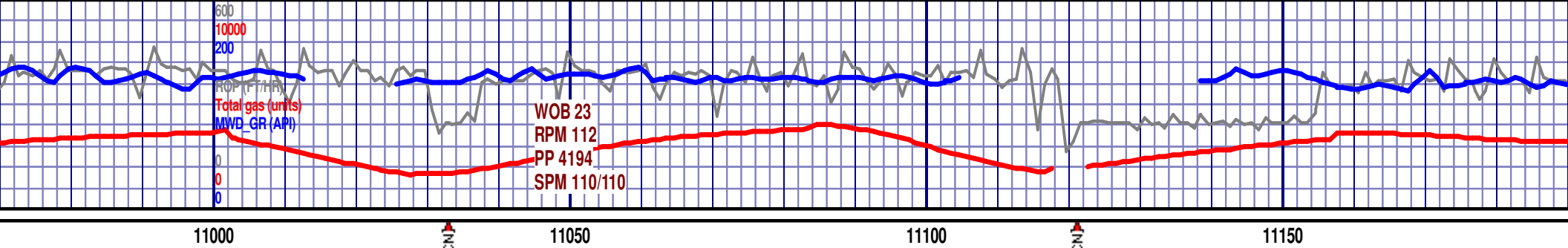




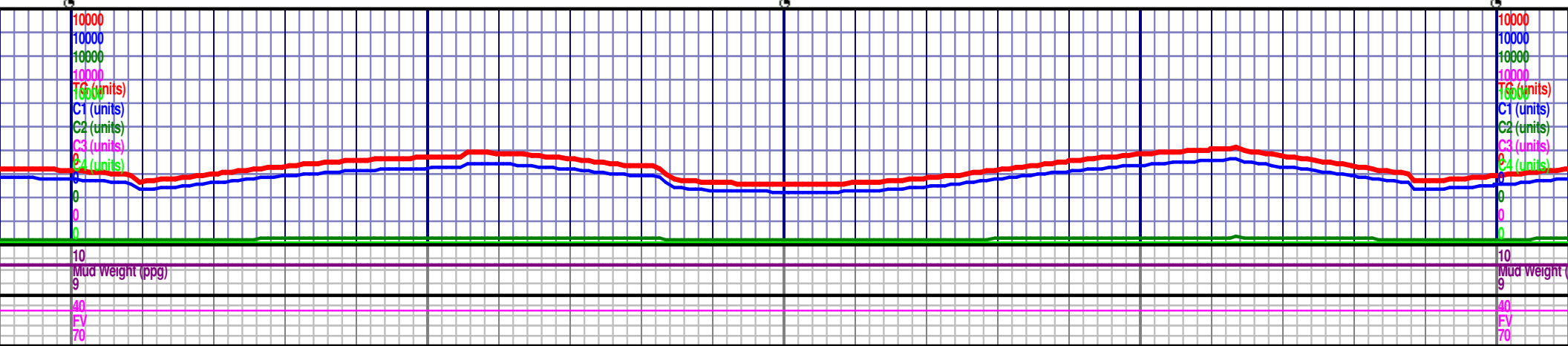
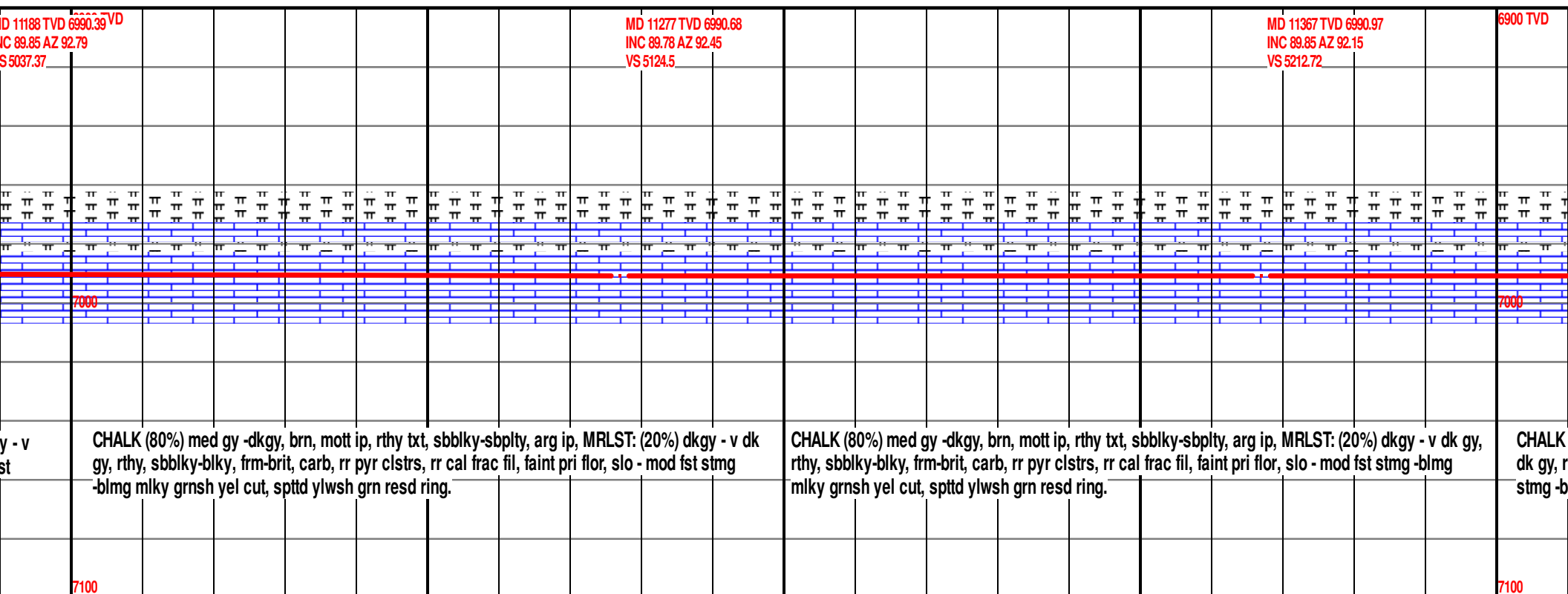
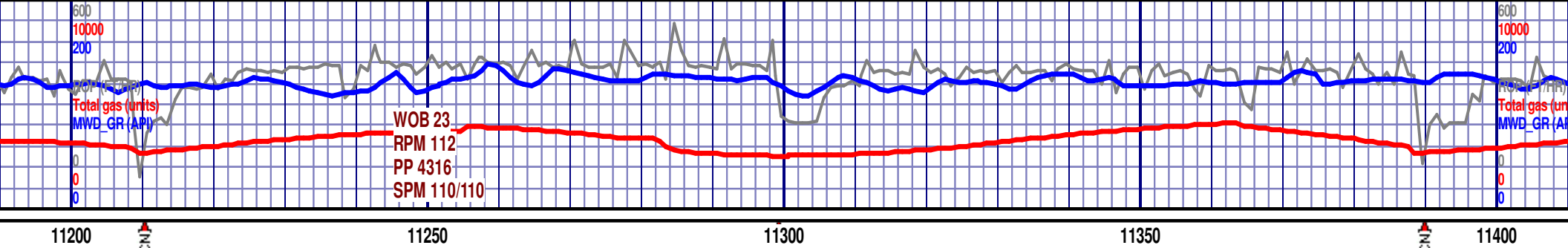


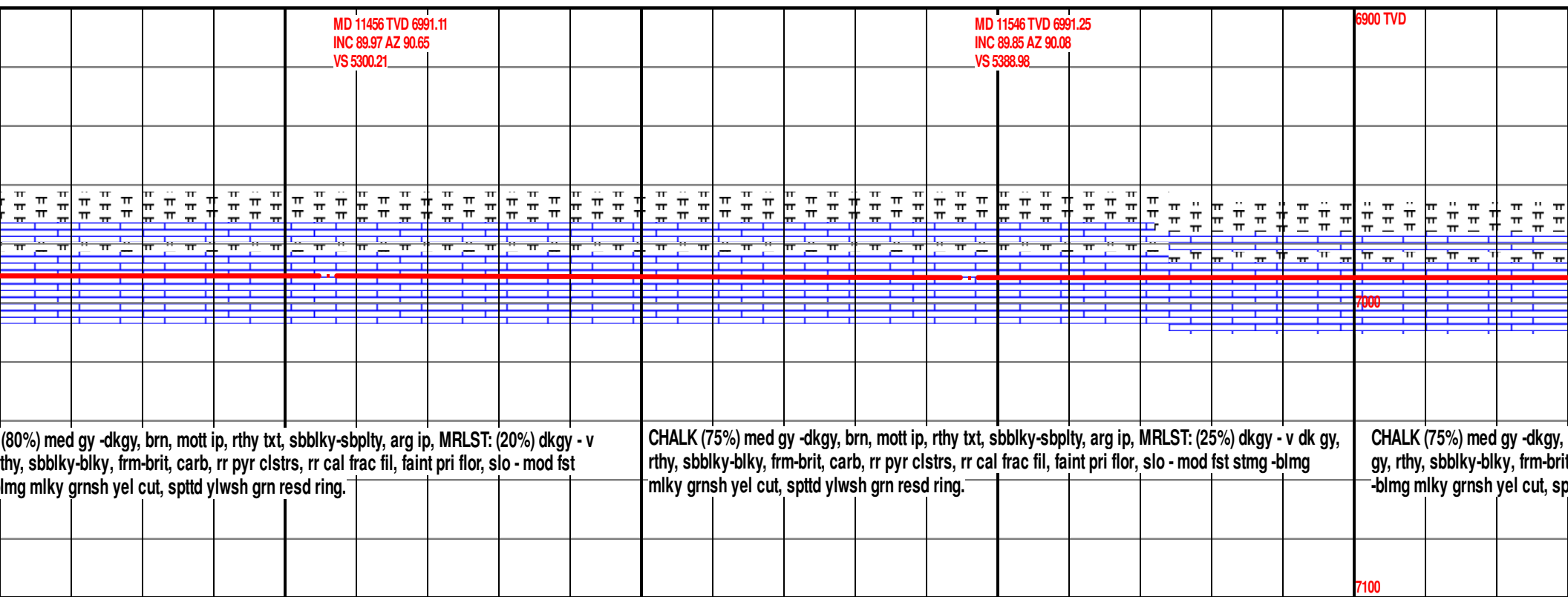


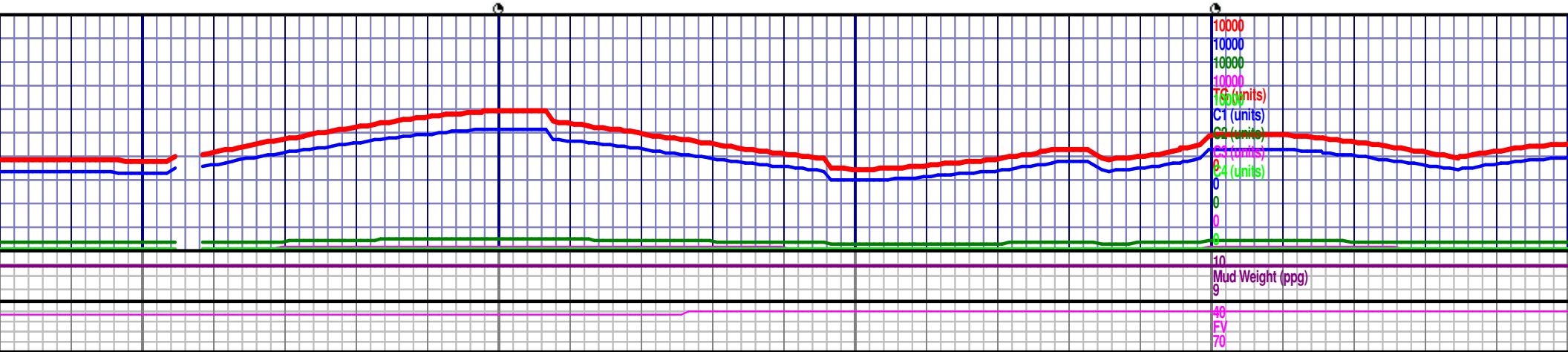
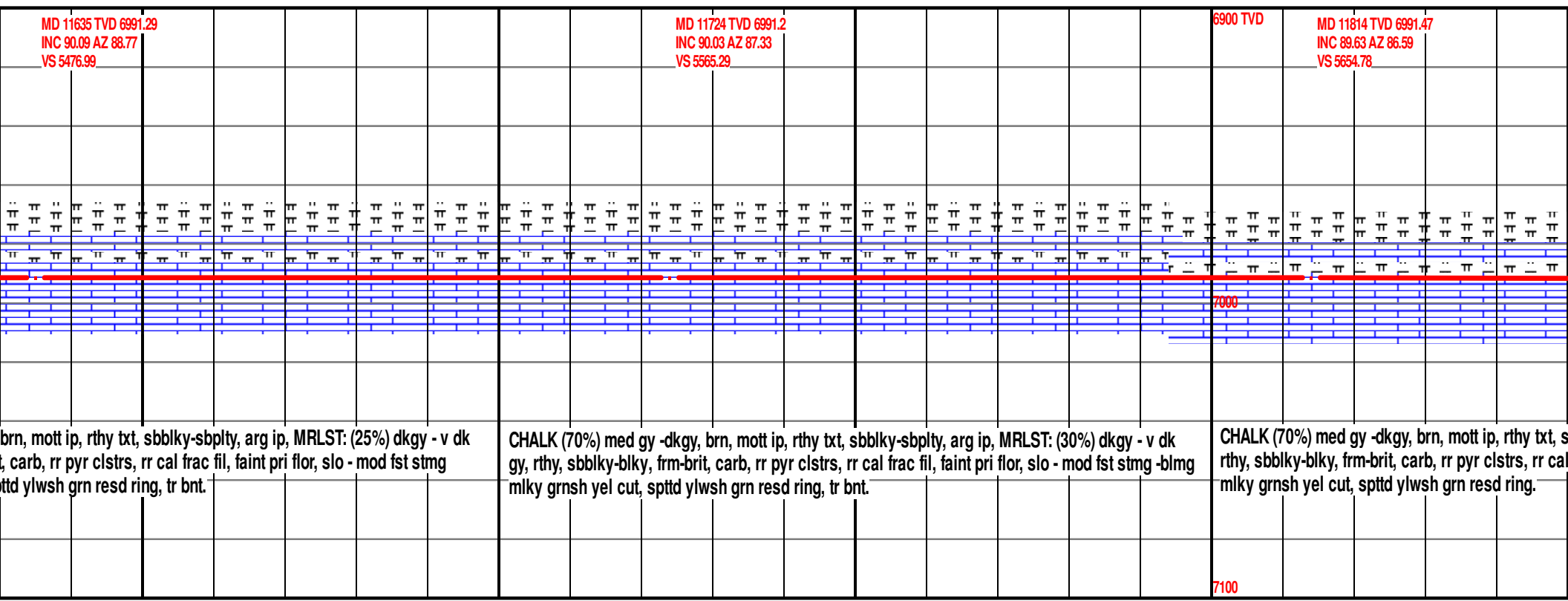
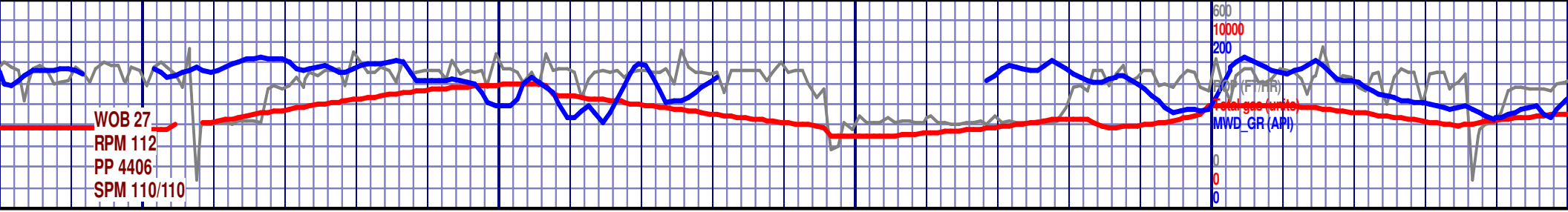


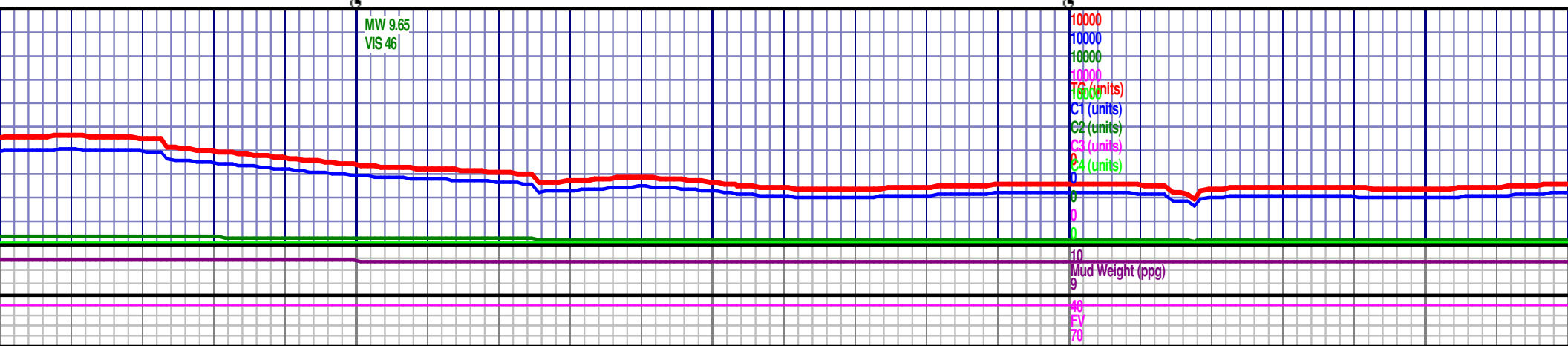
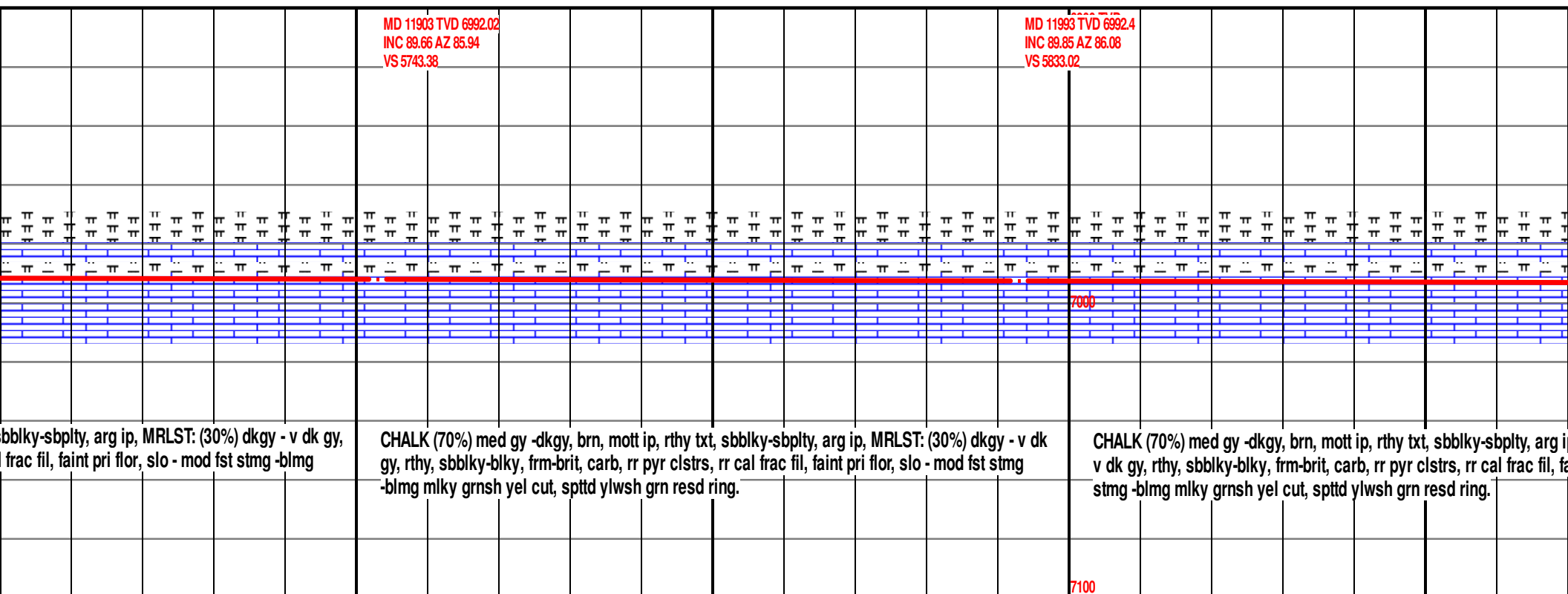
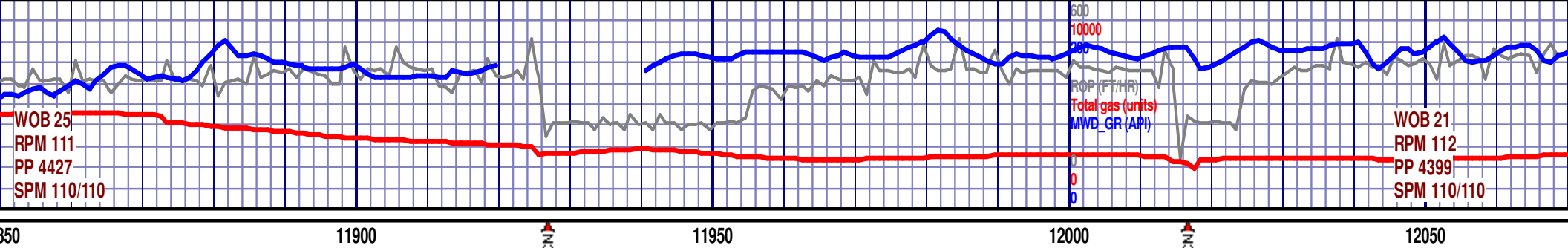


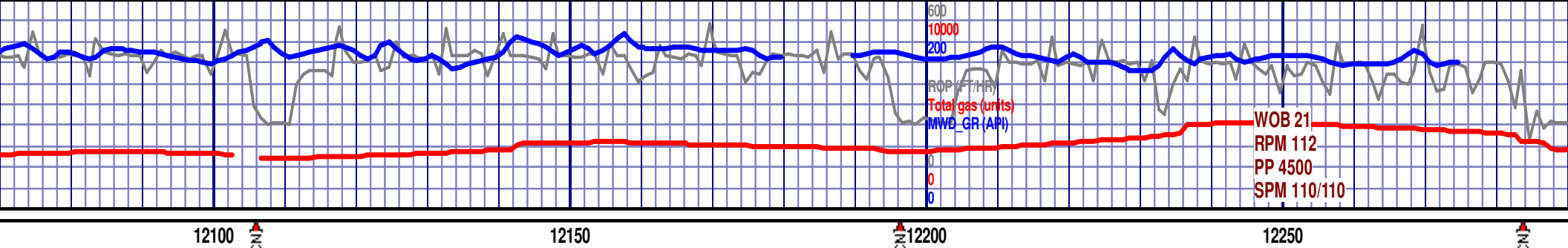




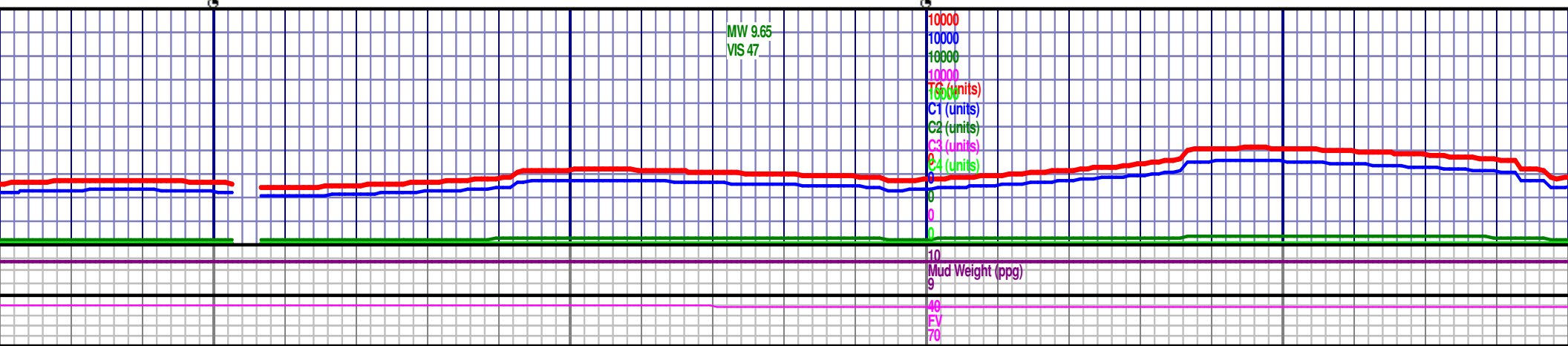




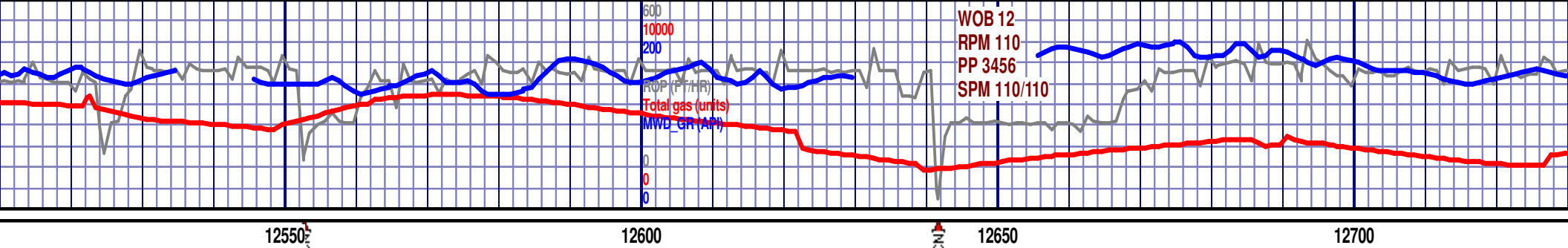




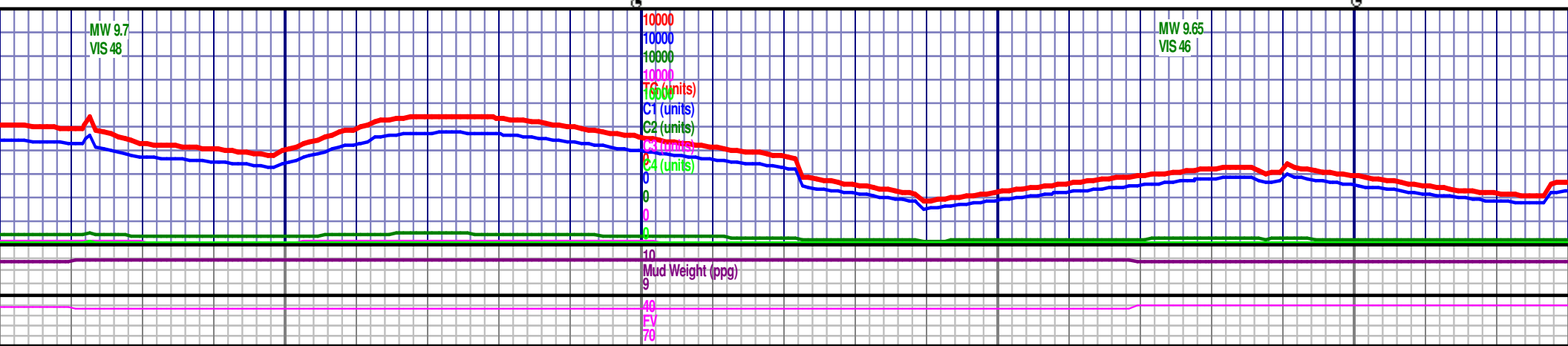
<p>MD 12083 TVD 6992.93 INC 89.48 AZ 87.6 VS 5922.53</p>	<p>MD 12172 TVD 6993.65 INC 89.6 AZ 88.74 VS 6010.8</p>	<p>6900 TVD</p>	<p>MD 12262 TVD 6994.27 INC 89.6 AZ 85.05 VS 6100.29</p>
<p>CHALK (75%) med gy -dkgy - brn, mott ip, rthy txt, sbblky-sbply, arg ip, MRLST: (25%) dkgy - v dkgy, rthy, sbblky-blky, frm-brit, carb, rr pyr clstrs, rr cal frac fil, faint pri flor, slo - mod fst stmg -blmg milky grnsh yel cut, spttd ylwsh grn resd ring.</p>	<p>CHALK (75%) med gy -dkgy, brn, mott ip, rthy txt, sbblky-sbply, arg ip, MRLST: (25%) dkgy - v dkgy, rthy, sbblky-blky, frm-brit, carb, rr pyr clstrs, rr cal frac fil, faint pri flor, slo - mod fst stmg -blmg milky grnsh yel cut, spttd ylwsh grn resd ring.</p>		<p>CHALK (75%) med gy -dkgy, brn, mott ip, rthy txt, sbblky-sbply, arg ip, MRLST: (25%) dkgy - v dkgy, rthy, sbblky-blky, frm-brit, carb, rr pyr clstrs, rr cal frac fil, faint pri flor, slo - mod fst stmg -blmg milky grnsh yel cut, spttd ylwsh grn resd ring.</p>





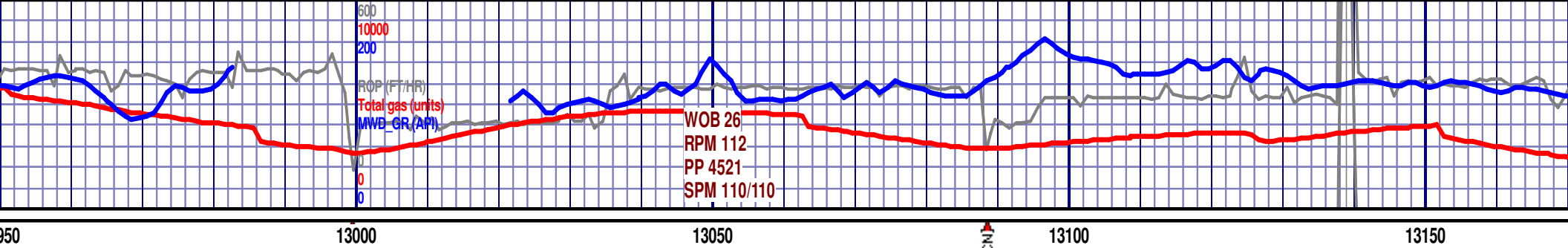


<p>MD 12530 TVD 6994.01 INC 90 AZ 90.52 VS 6366.41</p> <p>6900 TVD</p> <p>MD 12620 TVD 6994.05 INC 89.94 AZ 92.8 VS 6454.82</p> <p>MD 12709 TVD 6993.96 INC 90.18 AZ 93.33 VS 6541.81</p>	<p>CHALK (75%) med gy -dkgy, brn, mott ip, rthy txt, sbblky-sbplty, arg ip, MRLST: (25%) dkgy - v dk gy, dk gy, rthy, sbblky-blky, frm-brit, carb, rr pyr clstrs, rr cal frac fil, faint pri flor, slo - mod fst stmg -blmg stmg -blmg mlky grnsh yel cut, spttd ylwsh grn resd ring.</p>	<p>CHALK (75%) med gy -dkgy, brn, mott ip, rthy txt, sbblky-sbplty, arg ip, MRLST: (25%) dkgy - v dk gy, dk gy, rthy, sbblky-blky, frm-brit, carb, rr pyr clstrs, rr cal frac fil, faint pri flor, slo - mod fst stmg -blmg mlky grnsh yel cut, spttd ylwsh grn resd ring.</p>
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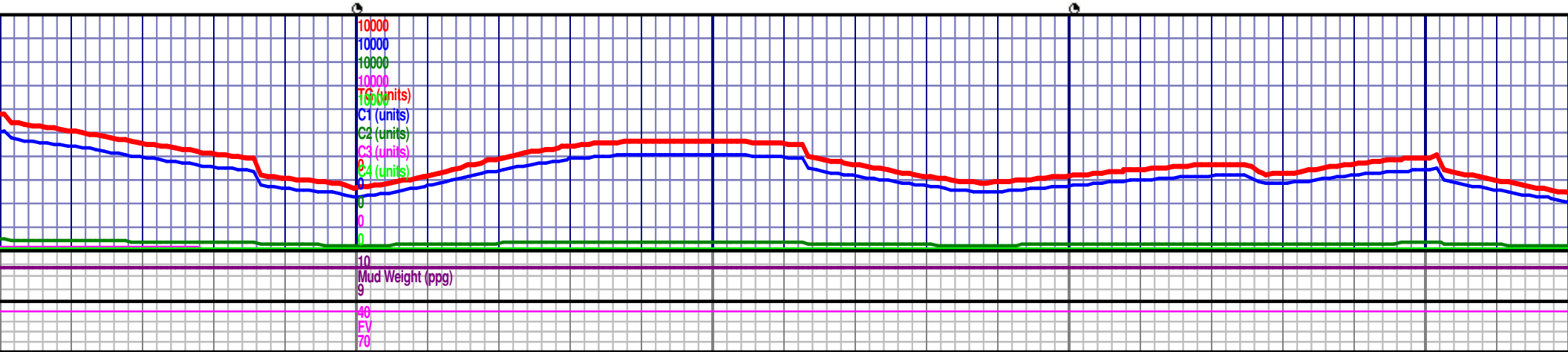


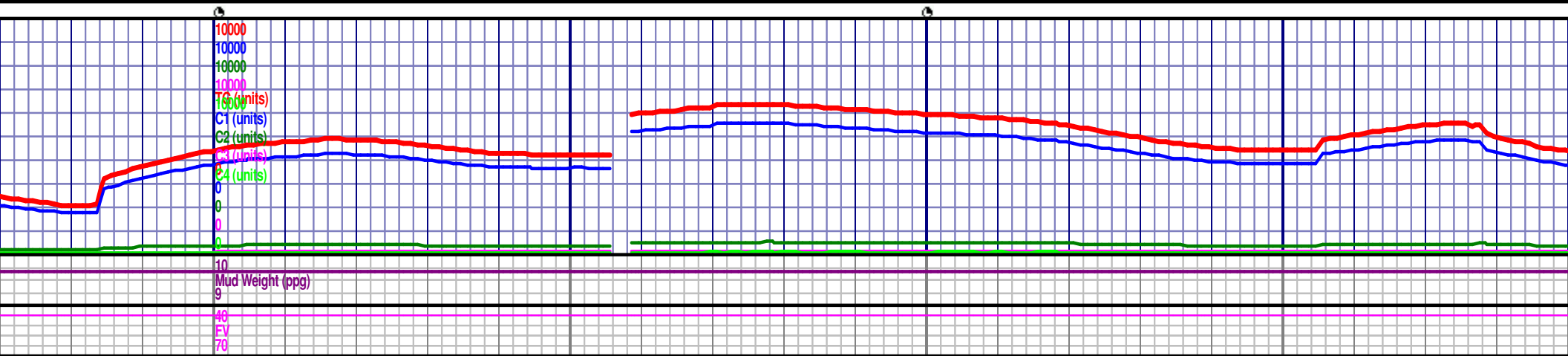
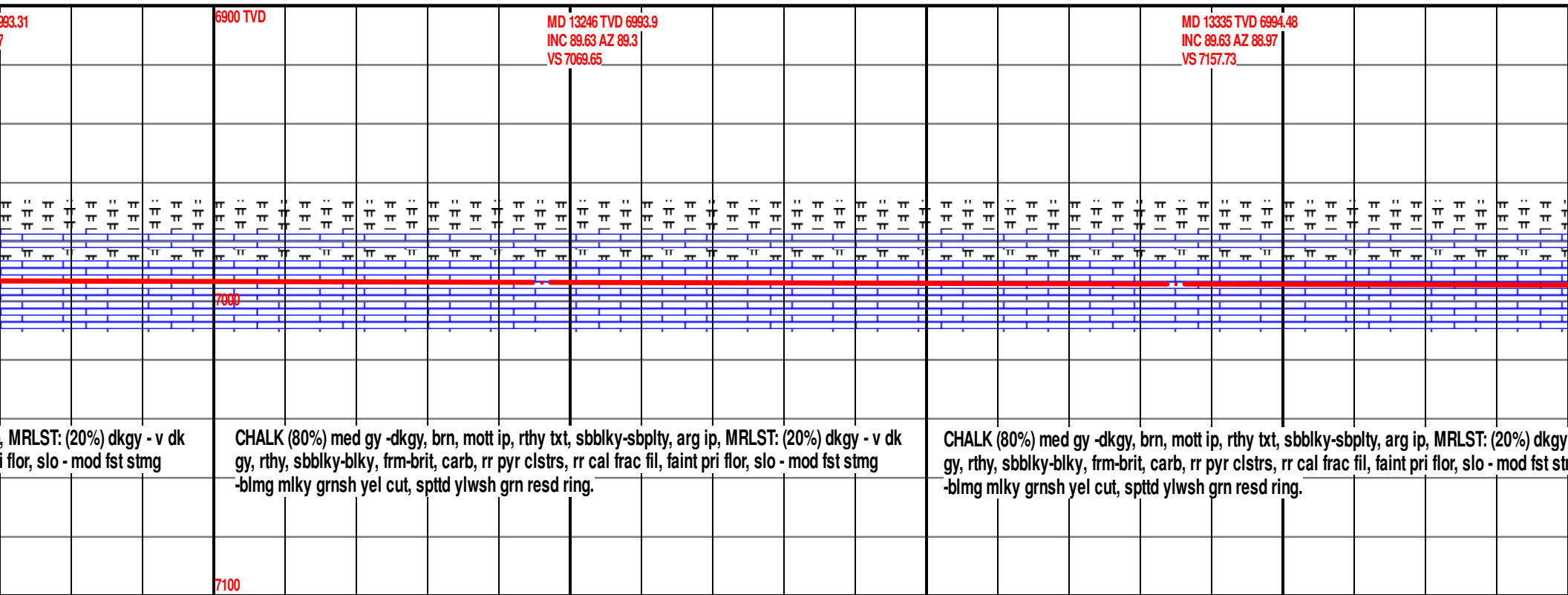
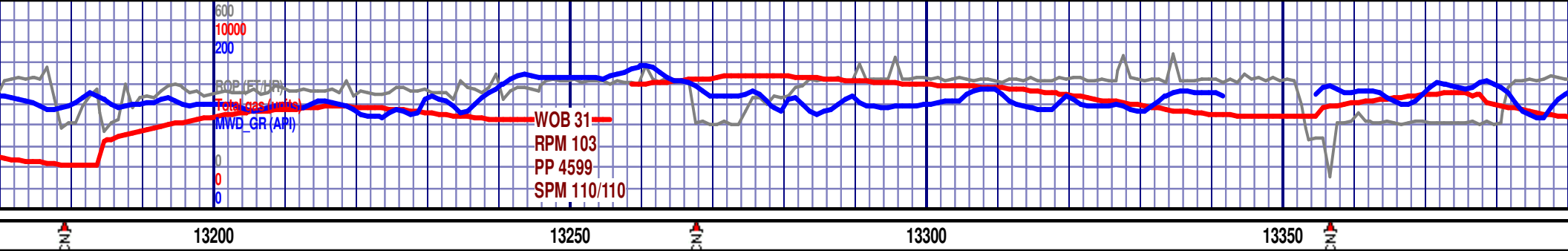


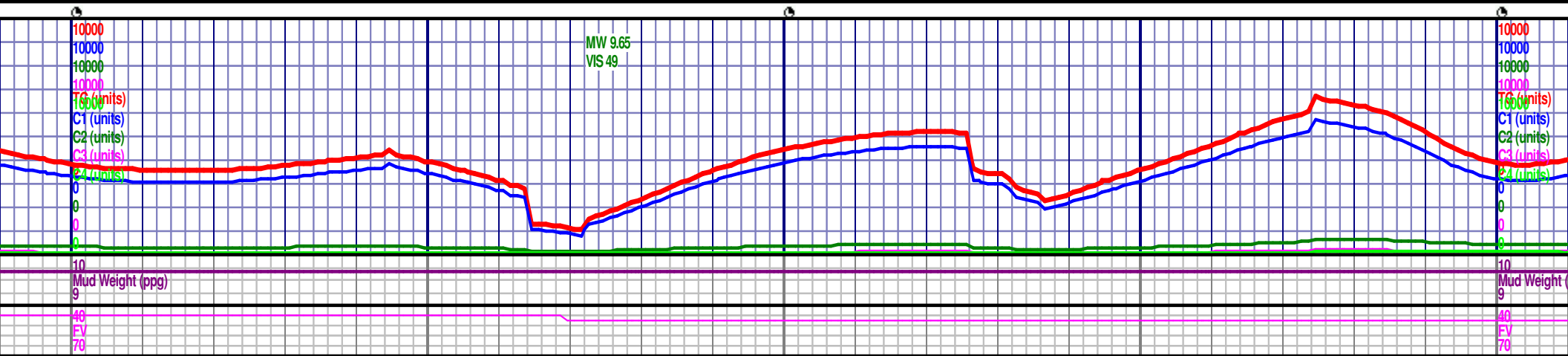
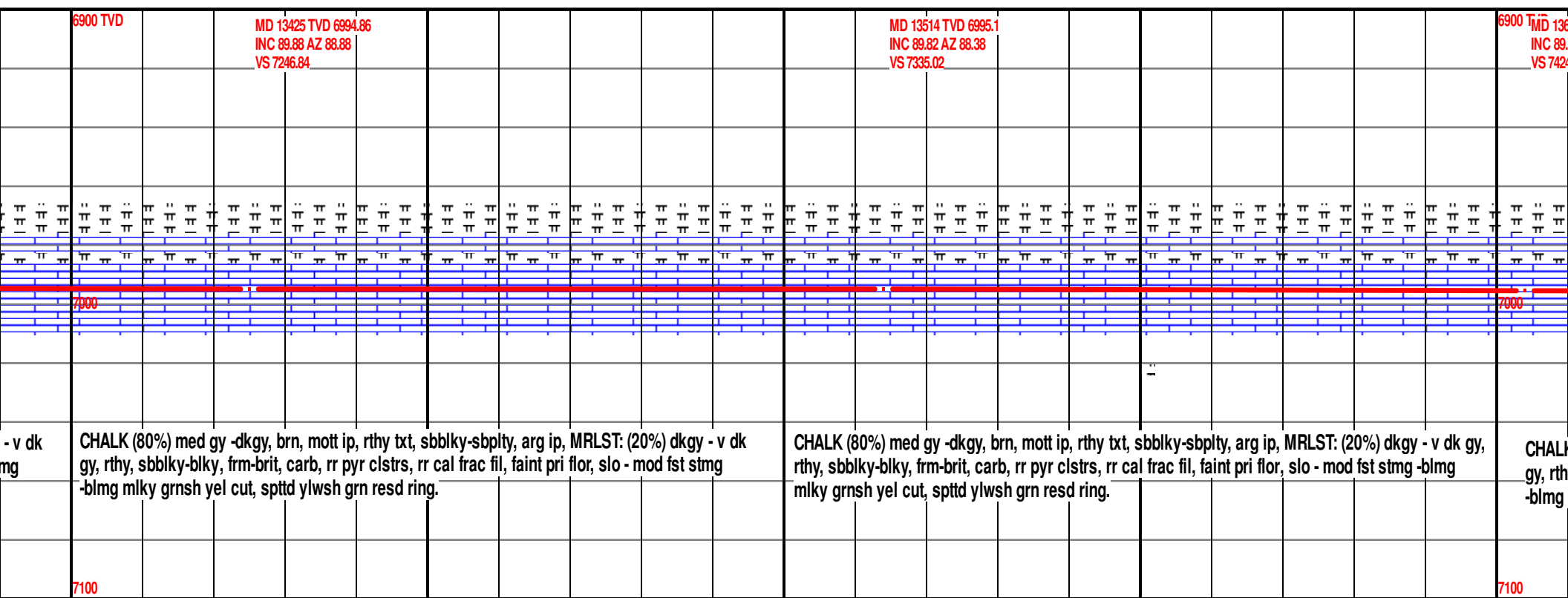


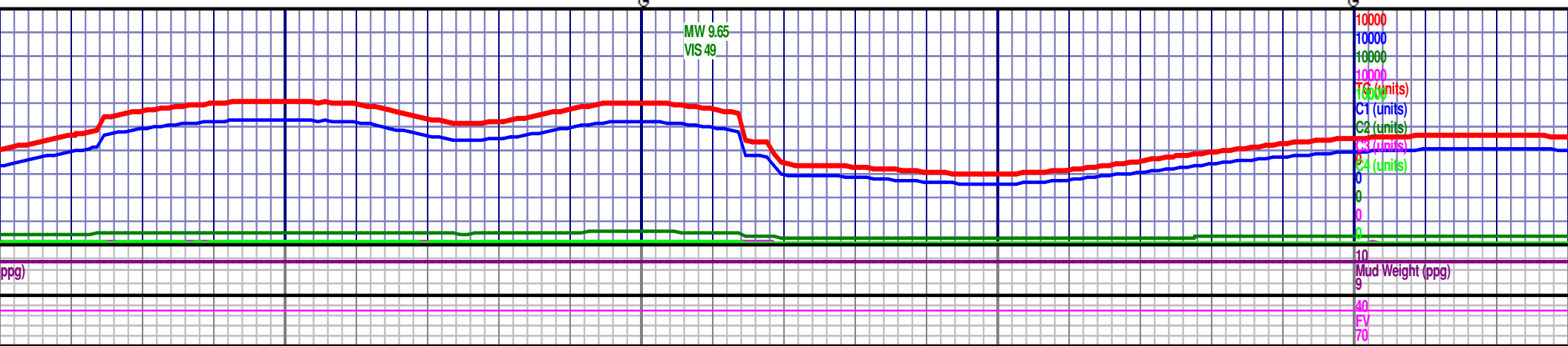
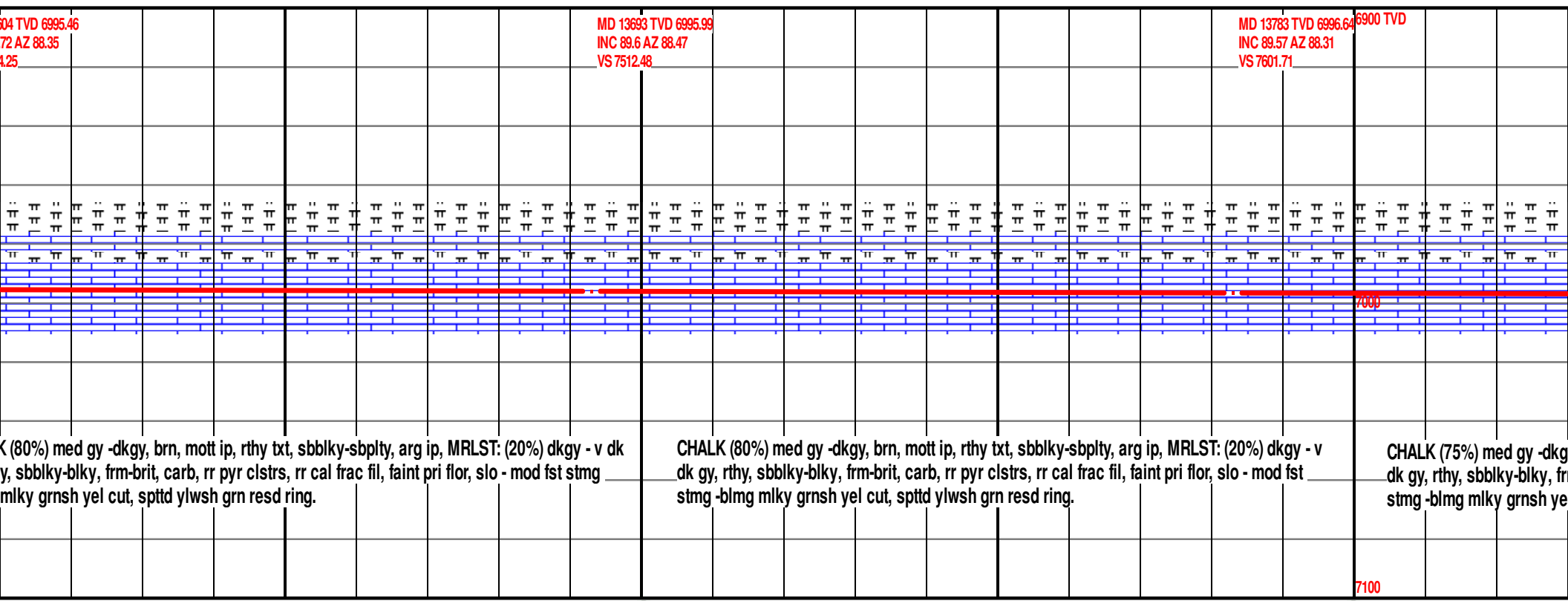
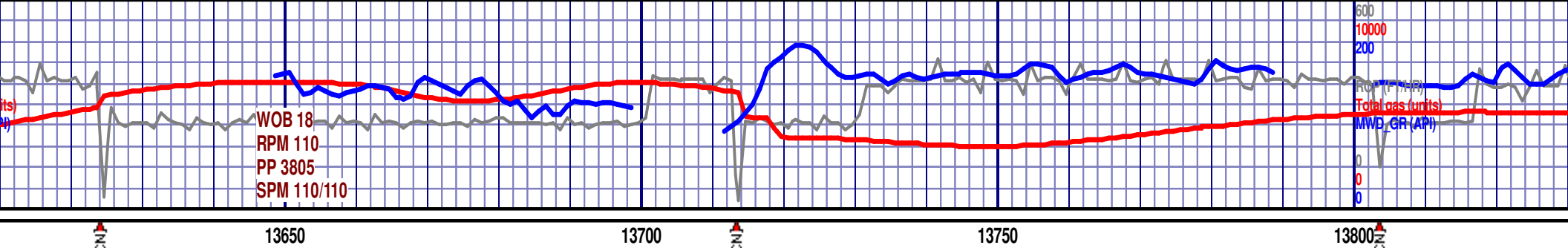


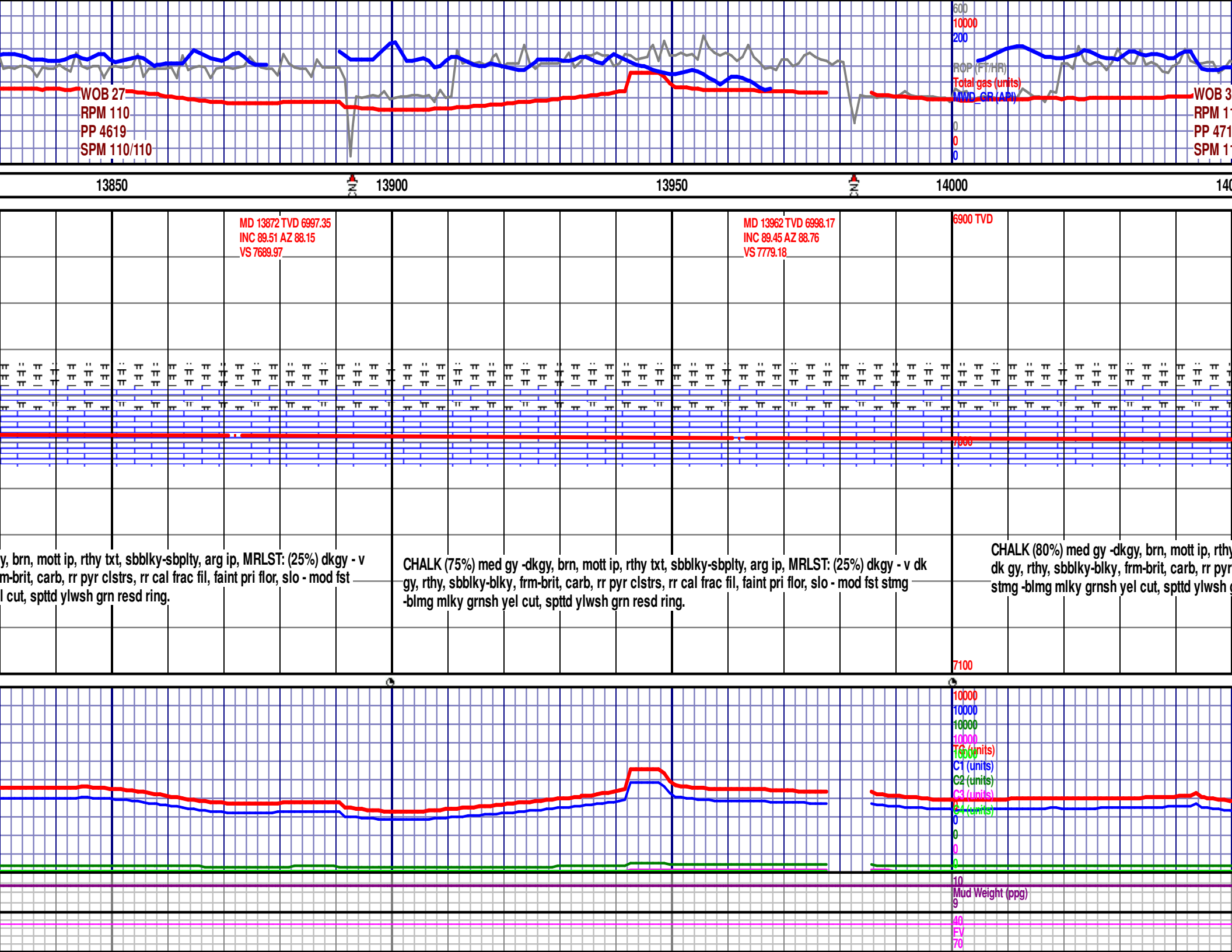
<p>MD 12978 TVD 6993.02 INC 90.22 AZ 90.87 VS 6805.35</p> <p>6900 TVD</p> <p>7000</p> <p>7100</p>	<p>MD 13067 TVD 6992.92 INC 89.91 AZ 90.4 VS 6893.06</p> <p>CHALK (80%) med gy -dkgy, brn, mott ip, rthy txt, sbblky-sbply, arg ip, MRLST: (20%) dkgy - v dkgy, rthy, sbblky-blky, frm-brit, carb, rr pyr clstrs, rr cal frac fil, faint pri flor, slo - mod fst stmg -blmg milky grnsh yel cut, spttd ylwsh grn resd ring.</p>	<p>MD 13157 TVD 6992.92 INC 89.6 AZ 90.6 VS 6981.78</p> <p>CHALK (80%) med gy -dkgy, brn, mott ip, rthy txt, sbblky-sbply, arg ip, rthy, sbblky-blky, frm-brit, carb, rr pyr clstrs, rr cal frac fil, faint pri flor, slo - mod fst stmg -blmg milky grnsh yel cut, spttd ylwsh grn resd ring.</p>
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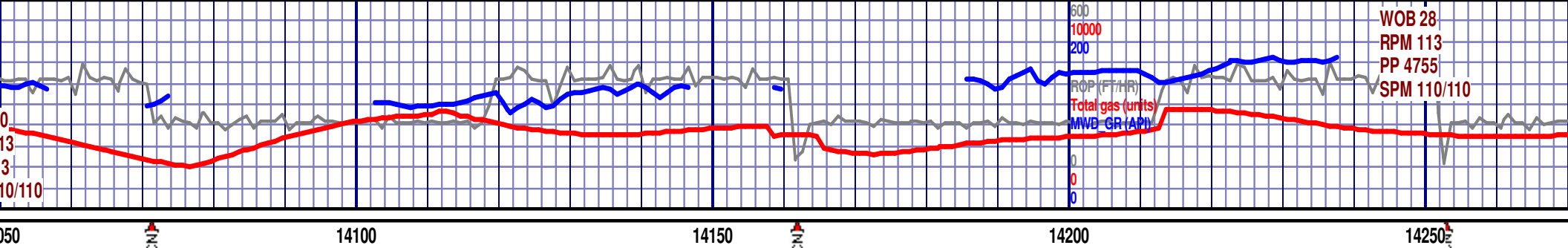




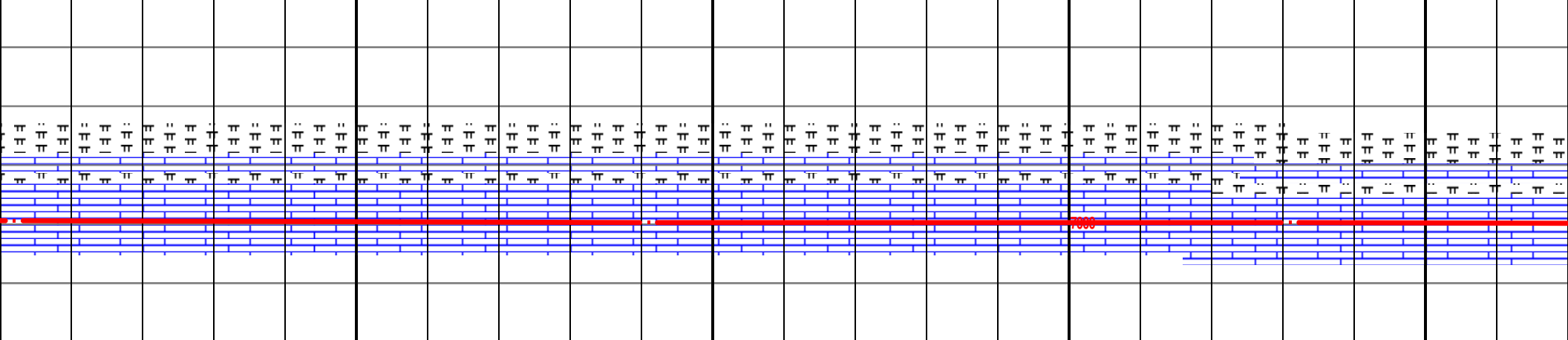




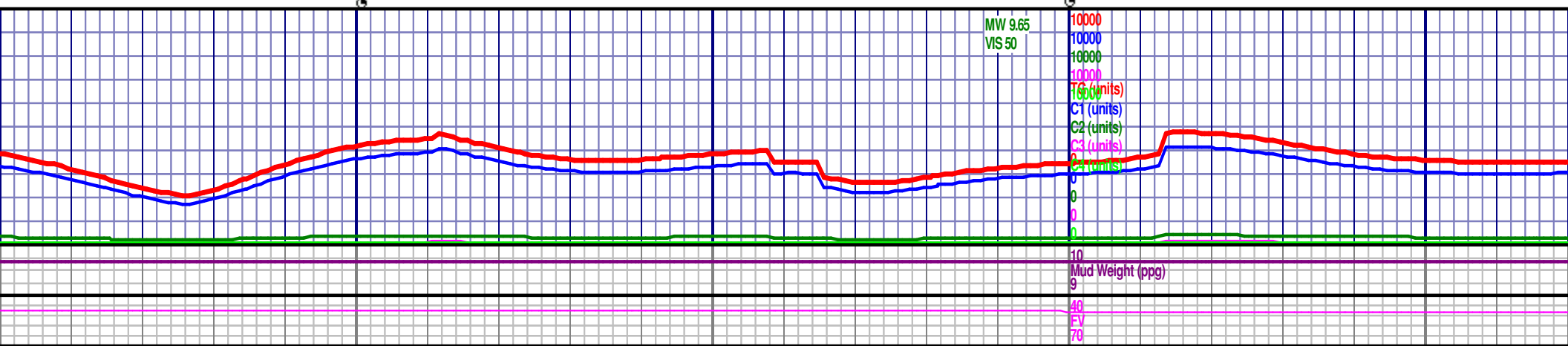


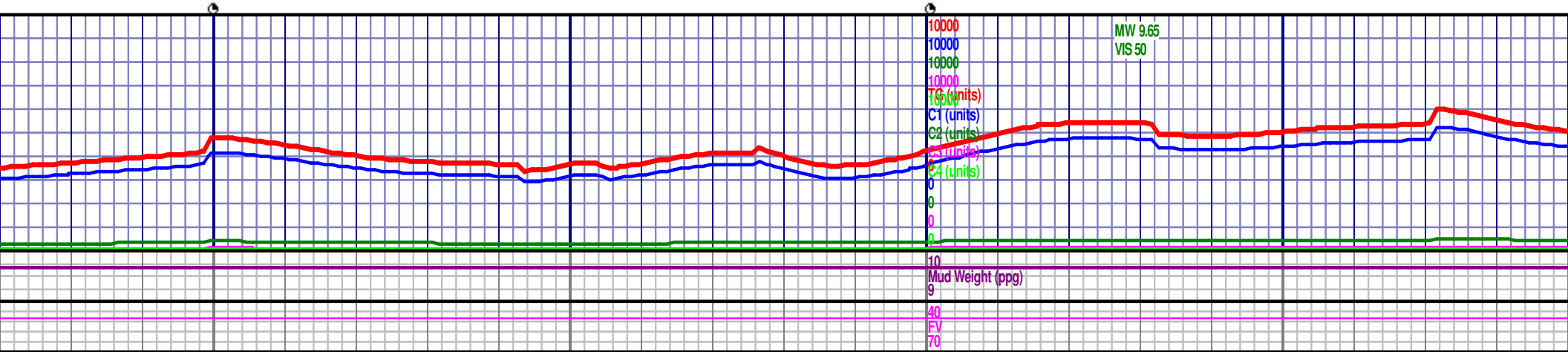
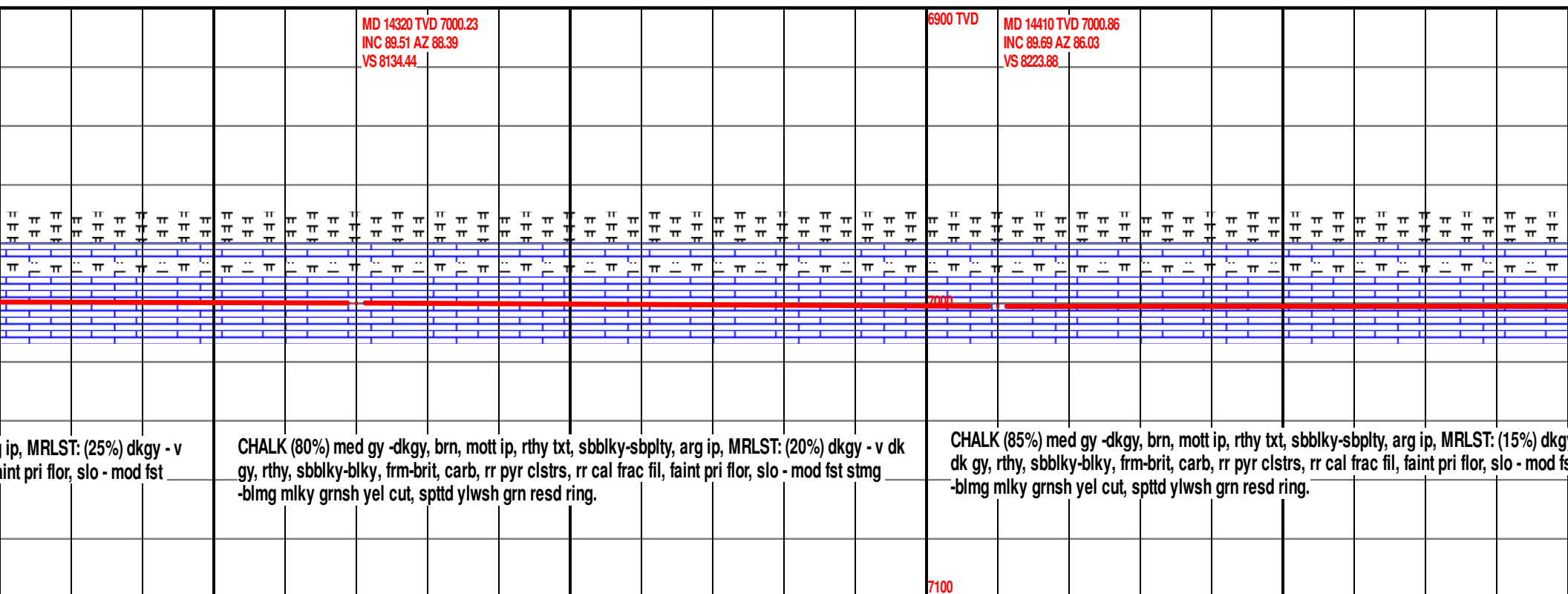
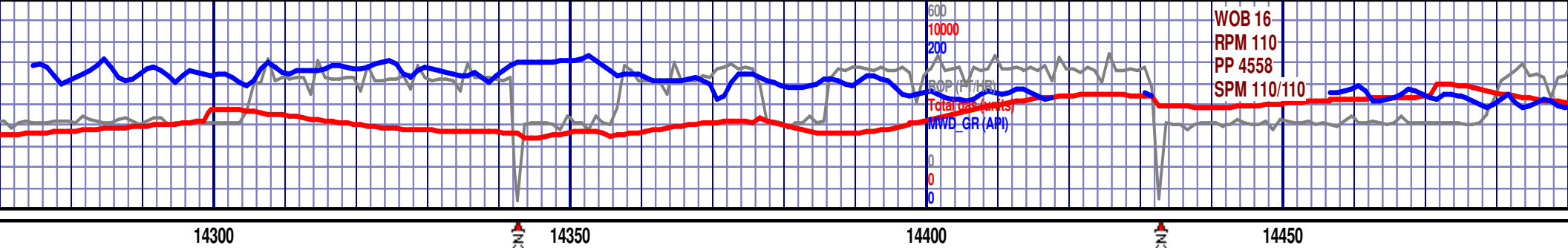


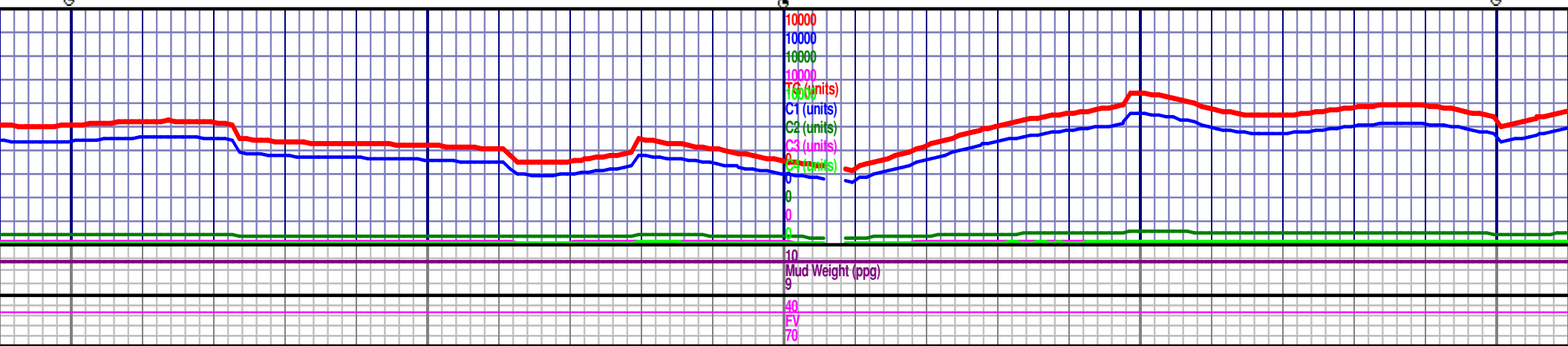
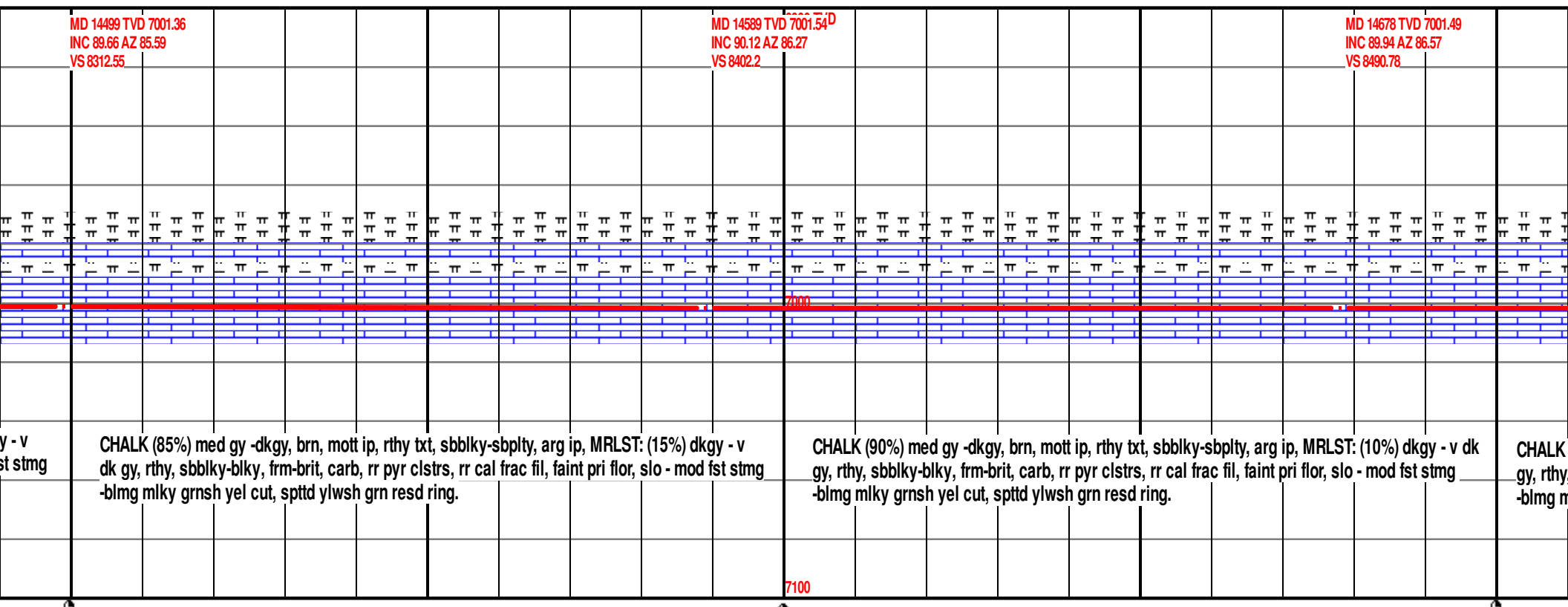
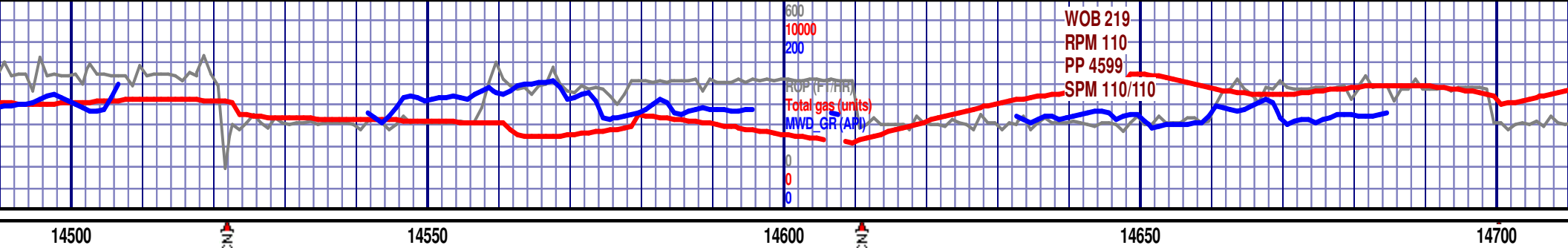
MD 14052 TVD 6998.89 INC 89.63 AZ 87.93 VS 7868.41	MD 14141 TVD 6999.23 INC 89.94 AZ 86.7 VS 7956.84	6900 TVD	MD 14231 TVD 6999.56 INC 89.63 AZ 88.49 VS 8046.22
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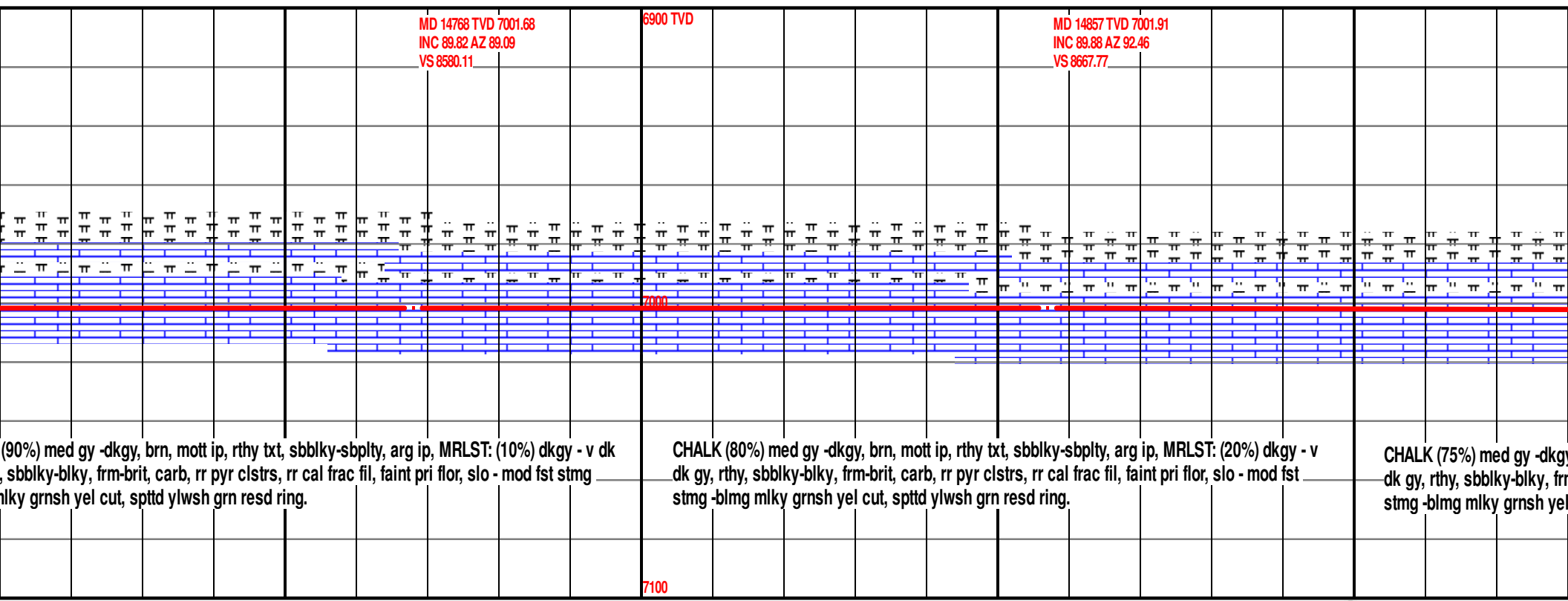
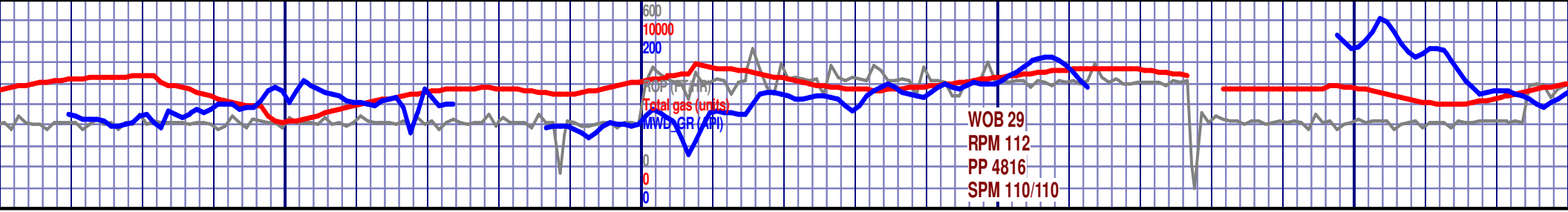
yt, sbbiky-sbply, arg ip, MRLST: (20%) dkgy - v clstrs, rr cal frac fil, faint pri flor, slo - mod fst grn resd ring.	CHALK (85%) med gy -dkgy, brn, mott ip, rthy txt, sbbiky-sbply, arg ip, MRLST: (15%) dkgy - v dk gy, rthy, sbbiky-blky, frm-brit, carb, rr pyr clstrs, rr cal frac fil, faint pri flor, slo - mod fst stmg -blmg mlky grnsh yel cut, spttd ylwsh grn resd ring.	CHALK (75%) med gy -dkgy, brn, mott ip, rthy txt, sbbiky-sbply, arg dk gy, rthy, sbbiky-blky, frm-brit, carb, rr pyr clstrs, rr cal frac fil, fa stmg -blmg mlky grnsh yel cut, spttd ylwsh grn resd ring.
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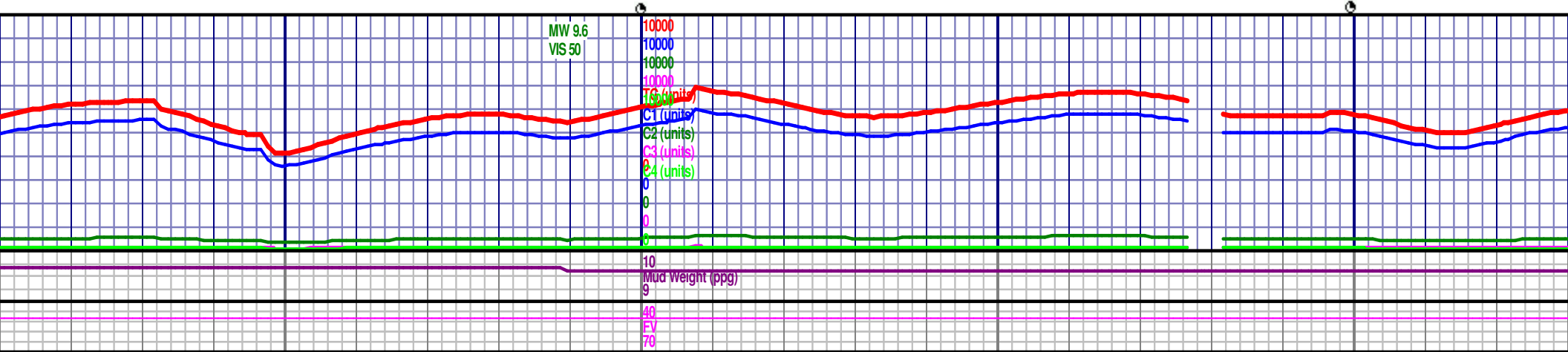


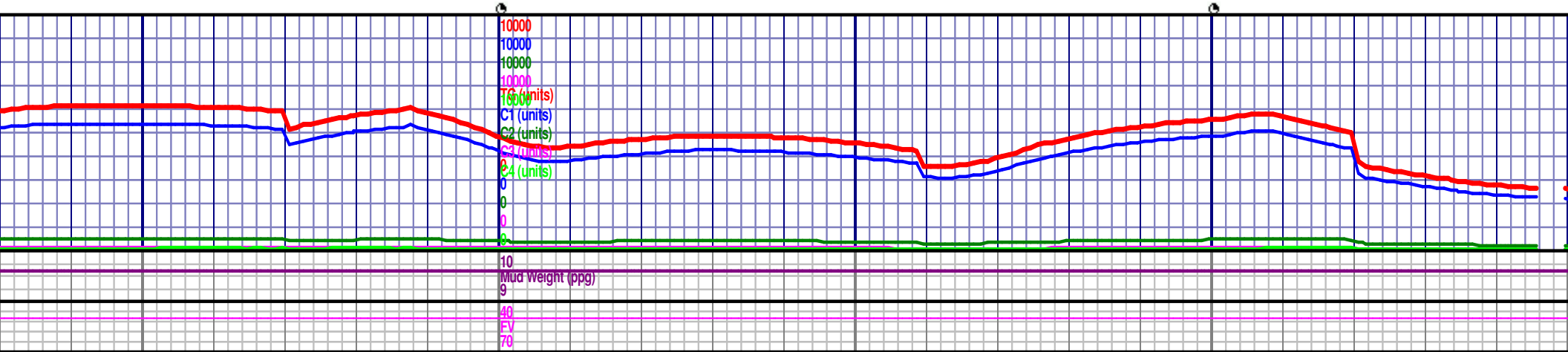
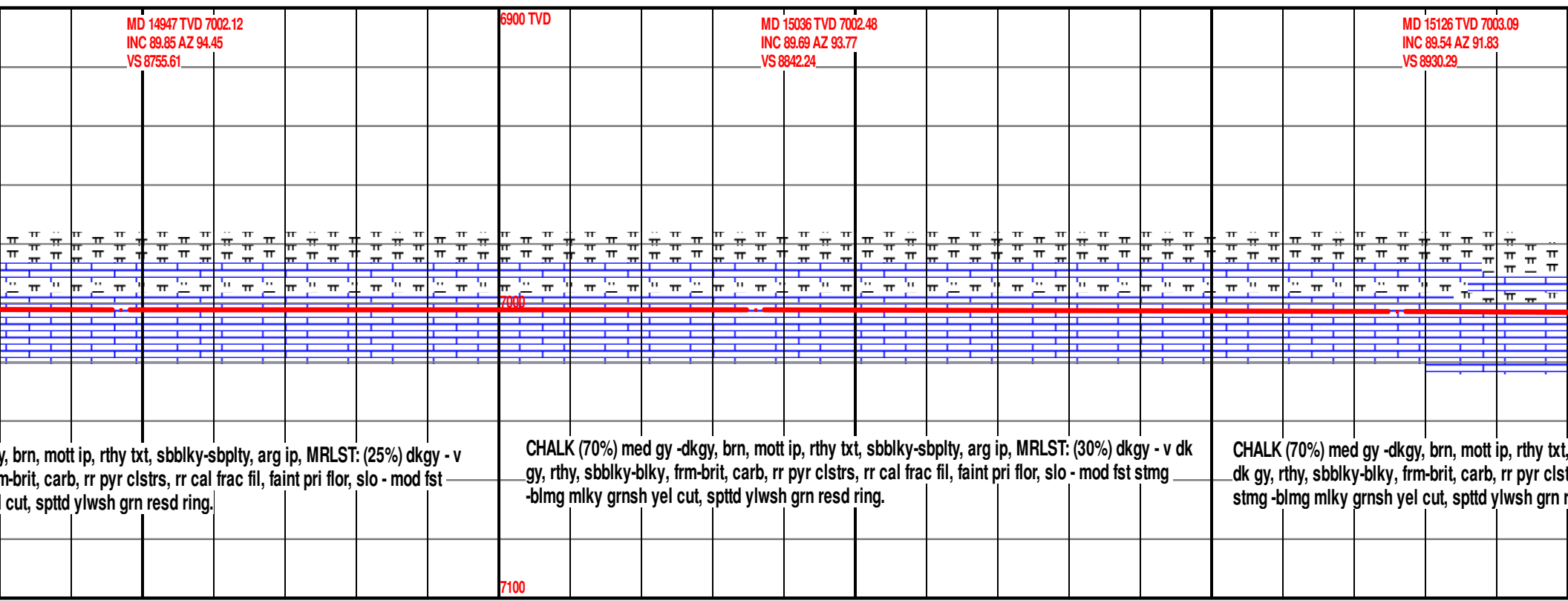
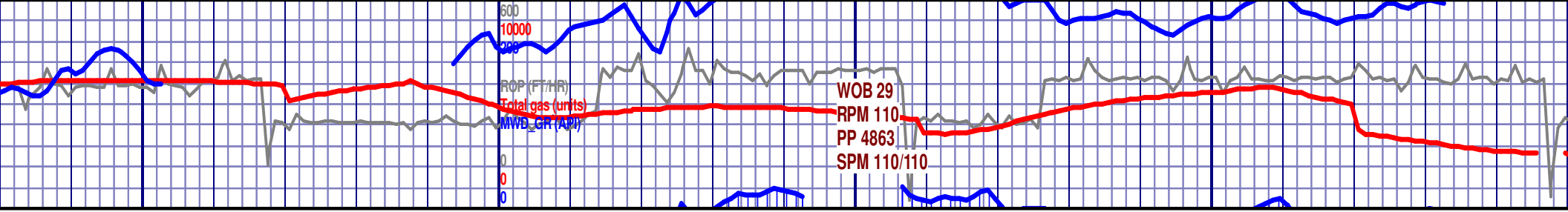


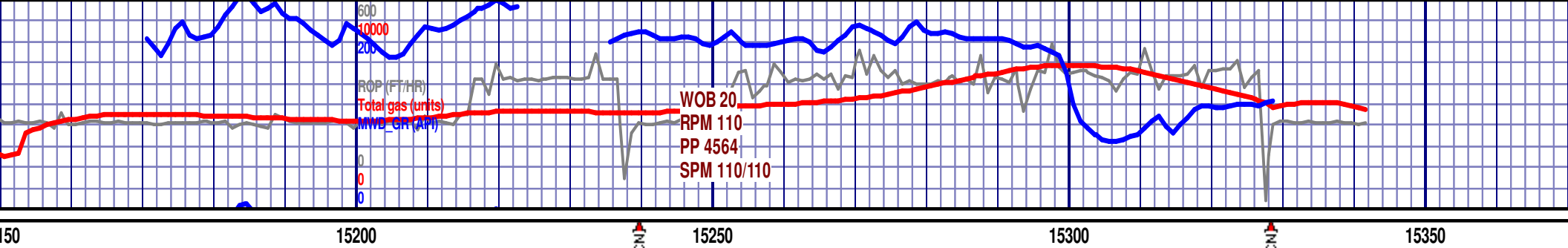
(90%) med gy -dkgy, brn, mott ip, rthy txt, sbblky-sbplty, arg ip, MRLST: (10%) dkgy - v dk sbblky-blky, frm-brit, carb, rr pyr clstrs, rr cal frac fil, faint pri flor, slo - mod fst stmg  
blky grnsh yel cut, spttd ylwsh grn resd ring.

CHALK (80%) med gy -dkgy, brn, mott ip, rthy txt, sbblky-sbplty, arg ip, MRLST: (20%) dkgy - v dk gy, rthy, sbblky-blky, frm-brit, carb, rr pyr clstrs, rr cal frac fil, faint pri flor, slo - mod fst stmg -blmg mlky grnsh yel cut, spttd ylwsh grn resd ring.

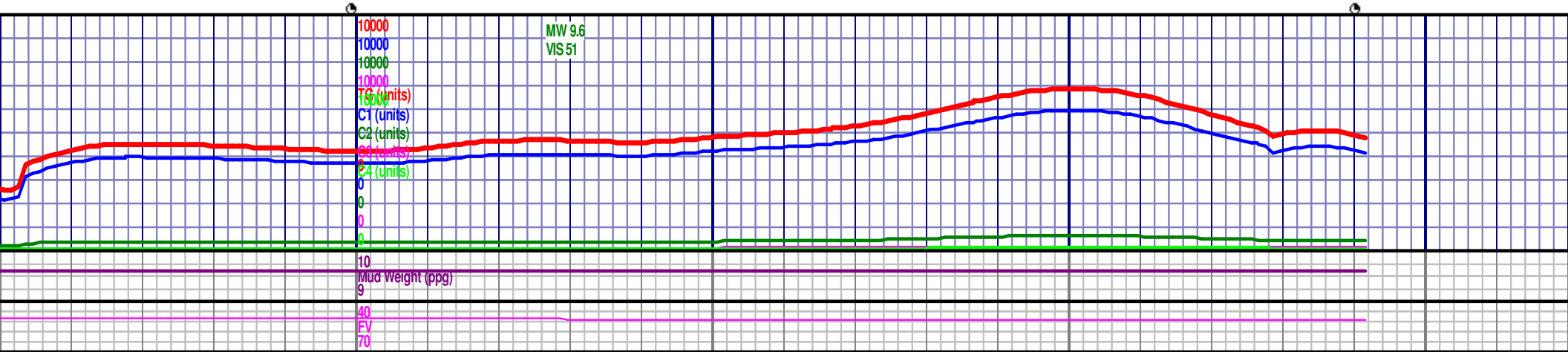
CHALK (75%) med gy -dkgy, brn, mott ip, rthy txt, sbblky-sbplty, arg ip, MRLST: (25%) dkgy - v dk gy, rthy, sbblky-blky, frm-brit, carb, rr pyr clstrs, rr cal frac fil, faint pri flor, slo - mod fst stmg -blmg mlky grnsh yel cut, spttd ylwsh grn resd ring.

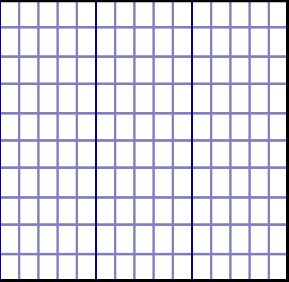






<p>6900 TVD</p> <p>MD 15215 TVD 7003.78 INC 89.57 AZ 90.56 VS 9017.84</p>	<p>MD 15304 TVD 7004.4MD 15319 TVD 7004.48 INC 89.63 AZ 89.12 INC 89.78 AZ 88.76 VS 9105.75 VS 9120.6</p> <p>MD 15343 TVD 7004.48</p>	<p>Final survey is a projection to the bit</p> <p>BIT #2, 8.5", HUGHES, AT505F, Jets 5x15s, SN#: 7163654 Rotary Steerable Directional BHA, IN @ 1766', ON 5/13/17, OUT ON 5/16/17 @ 15343', DRILLED 13577' IN 41.5 BIT HR.</p>	<p>Sharon Springs Niobrara A Chalk Niobrara B Chalk</p>	<p>TD of 15,343' reached 5/16/2017</p>
<p>sbbky-sbplty, arg ip, MRLST: (30%) dkgy - v rs, rr cal frac fil, faint pri flor, slo - mod fst red ring.</p>	<p>CHALK (75%) med gy -dkgy, brn, mott ip, rthy txt, sbbky-sbplty, arg ip, MRLST: (25%) dkgy - v dk gy, rthy, sbbky-blky, frm-brit, carb, rr pyr clstrs, rr cal frac fil, faint pri flor, slo - mod fst stmg -blmg mlky grnsh yel cut, spttd ylwsh grn resd ring.</p>			<p>Thank Gools</p>





FORMATION TOP's		
MD	TVD	SSD
7018'	6790'	-2031'
7075'	6825'	-2066'
7377'	6954'	-2195'
ched at 04:55 on		
You by Brothers & Assoc. Inc		

