

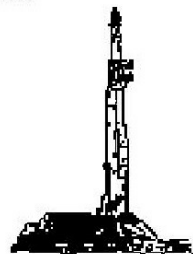
**GOOLSBY BROTHERS**  
and associates, inc.

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: Falken 33N-9B-L

API: 051234510100

Location: NE/SE Section 11 T6N R66W Weld County, CO.

License Number:

Spud Date: October 19, 2017

Surface Coordinates: 1844'FSL & 276'FEL NE/SE Sec. 11 T6N R66W

Lat/Long: 40°50'06.32"N / 104°73'59.47"W

Bottom Hole Coordinates: Planned: 1644'FSL & 300'FEL, SEC. 9 T6N R66W

Projected: 1652'FSL & 459'FEL, SEC. 9 T6N R66W

Ground Elevation (ft): 4,809'

K.B. Elevation (ft): 4,835'

Logged Interval (ft): 6,600' To: 18,984'

Total Depth (ft): 18,984' DMTD

Formation: Niobrara B Chalk

Type of Drilling Fluid: OBM (LSND Surface).

Region: Wattenberg

Drilling Completed: October 24, 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: Tekabe Gedamu & Blake Stacey

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 18,971' MD

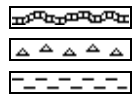
## Casing

9 5/8" Surface Casing pre set @ 1,800' MD.  
5 1/2" Production Liner set @ 18,967' MD, on 10/26/2017.

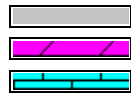
## Comments

- 1) Drilling Contractor: Precision Drilling, Rig #562  
Pumps 1&2: Rostell F-1600 5" x 12" (.0692 Bbls./stroke)  
Toolpusher: Michael Ellingsworth, Tyson Westgard.
- 2) Company Man: Kent Priddy  
Kevin Brakovec  
Tim Jones  
Kalib Ford
- 3) Mud Comapny : Reliable Drilling Fluids  
Engineer: Wally Yates, Scott Allen
- 4) Directional Drilling: Baker Hughes  
Drillers: Ryan Kielian, Jeremiah Samson  
MWD: Matthew Leopold, Baker Remote Field Operations.
- 5) Gas Equipment: Pason Gas Analyzer (Spectrometer)
- 6) Wellsite Geologist: Blake Stacey & Tekabe Gedamu

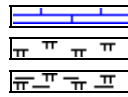
## ROCK TYPES



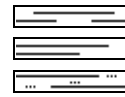
Bent  
Cht  
Clyst



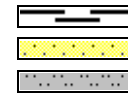
Oil sat.  
Dol  
Lmst



Chalk  
Mrlst  
Mrlst\_sh (intbdd)



Shale  
Shgy  
Slty sh



Carb sh  
Ss  
Slstt

## 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

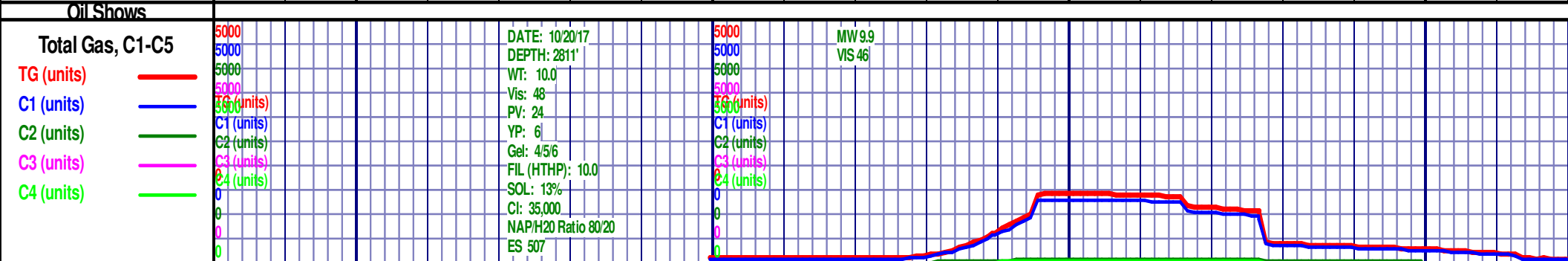
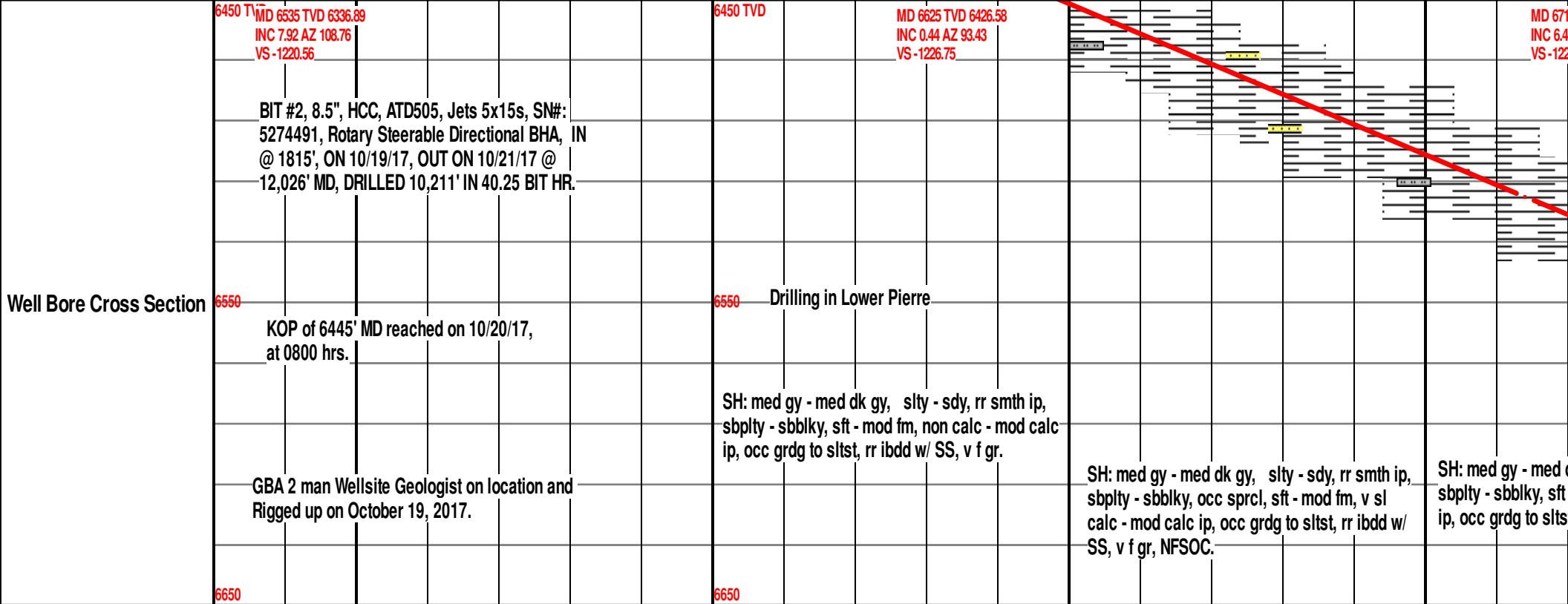
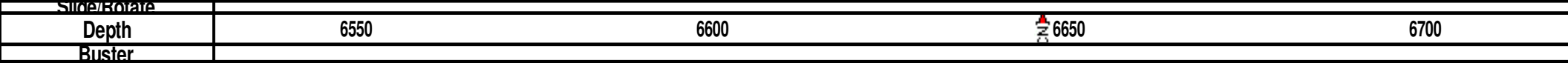
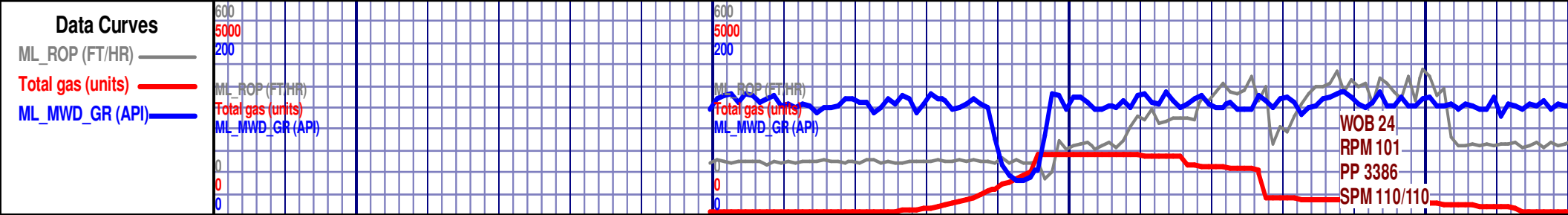
Inter  
 Moldic  
 Organic  
 Pinpoint  
 Vuggy

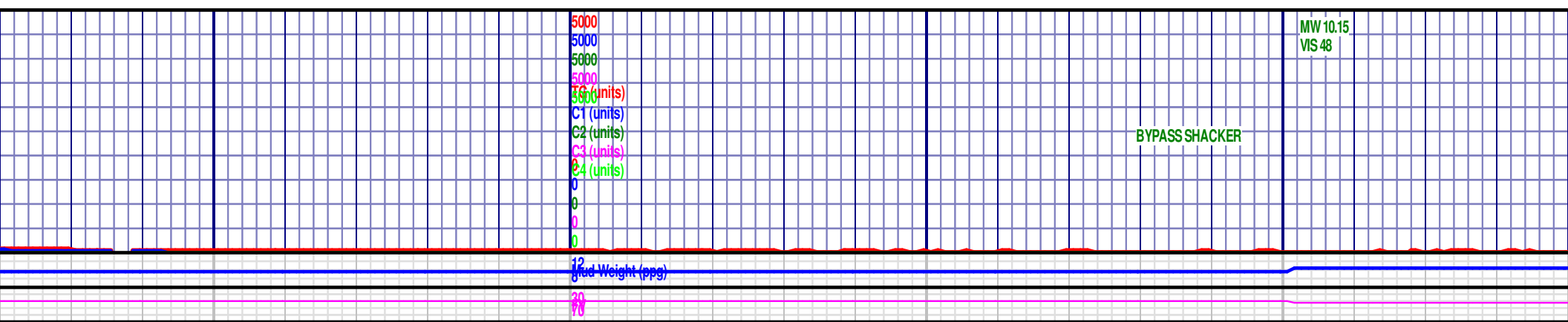
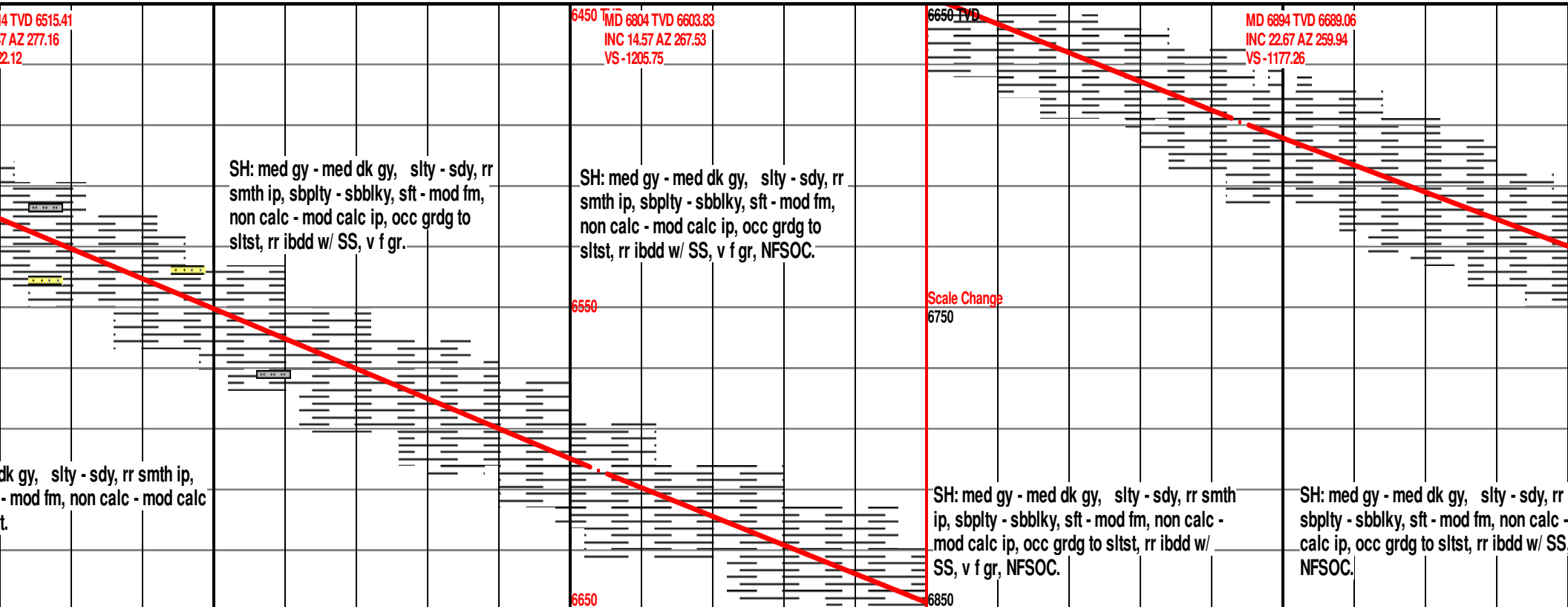
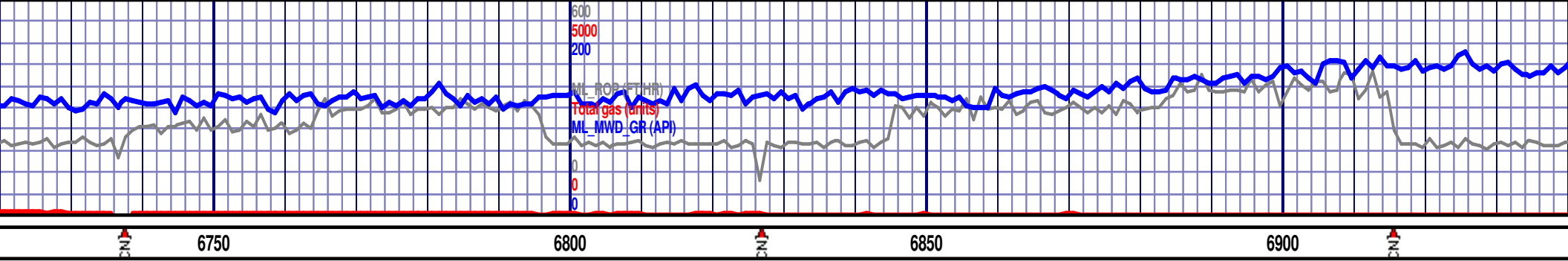
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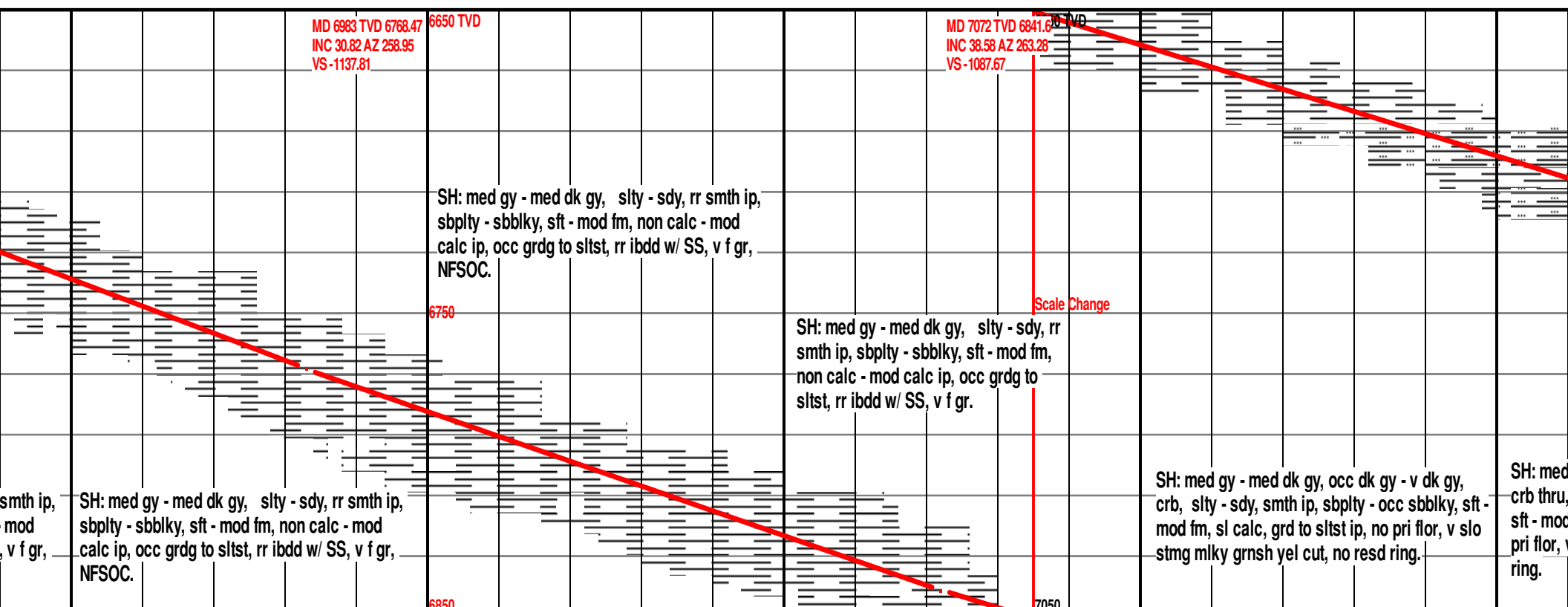
Rounded  
 Subrnd  
 Subang  
 Angular

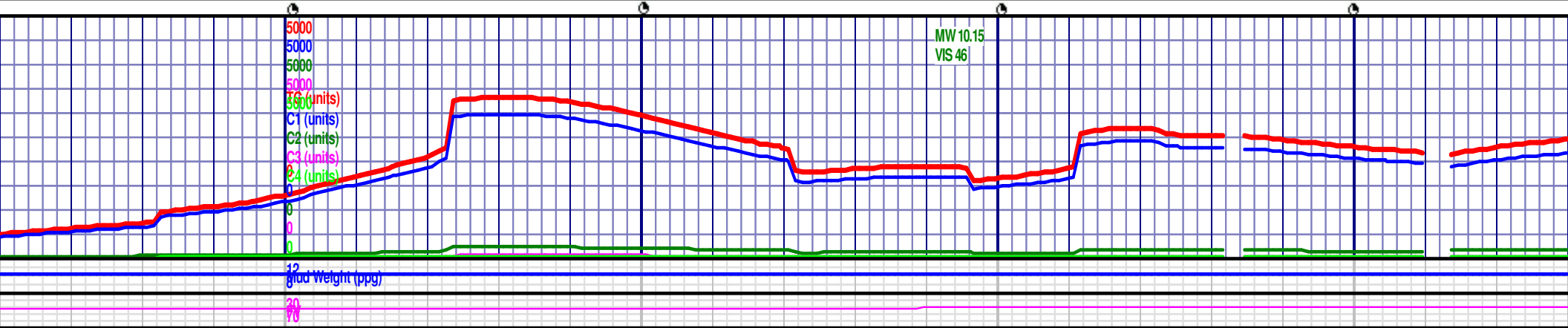
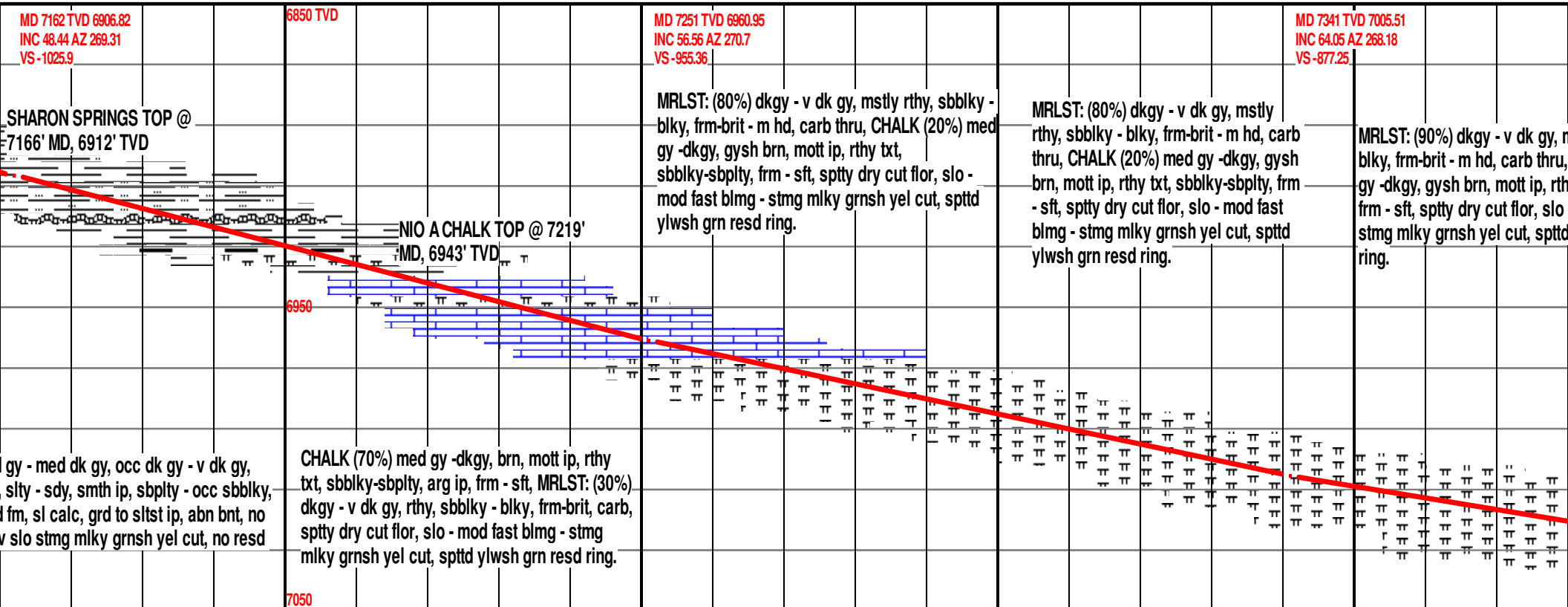
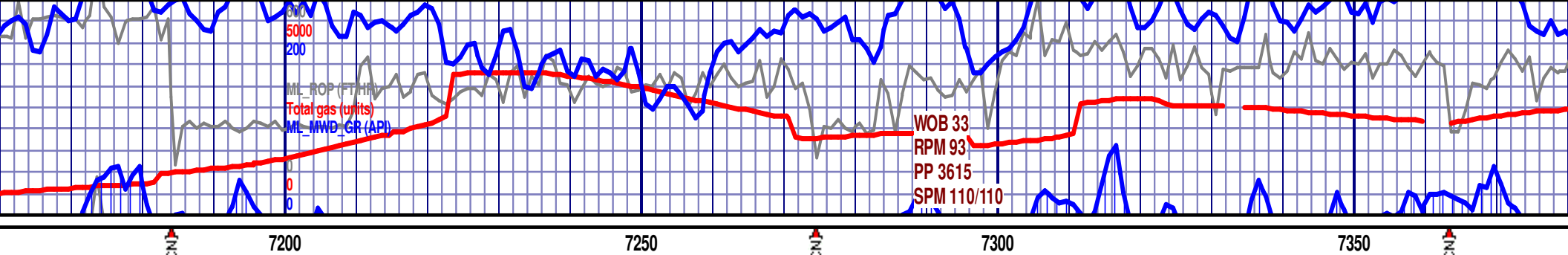
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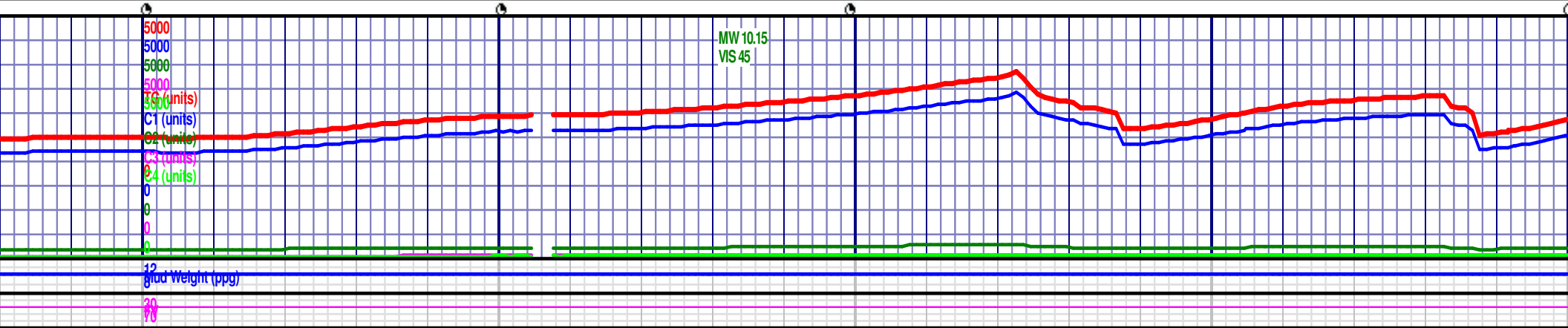
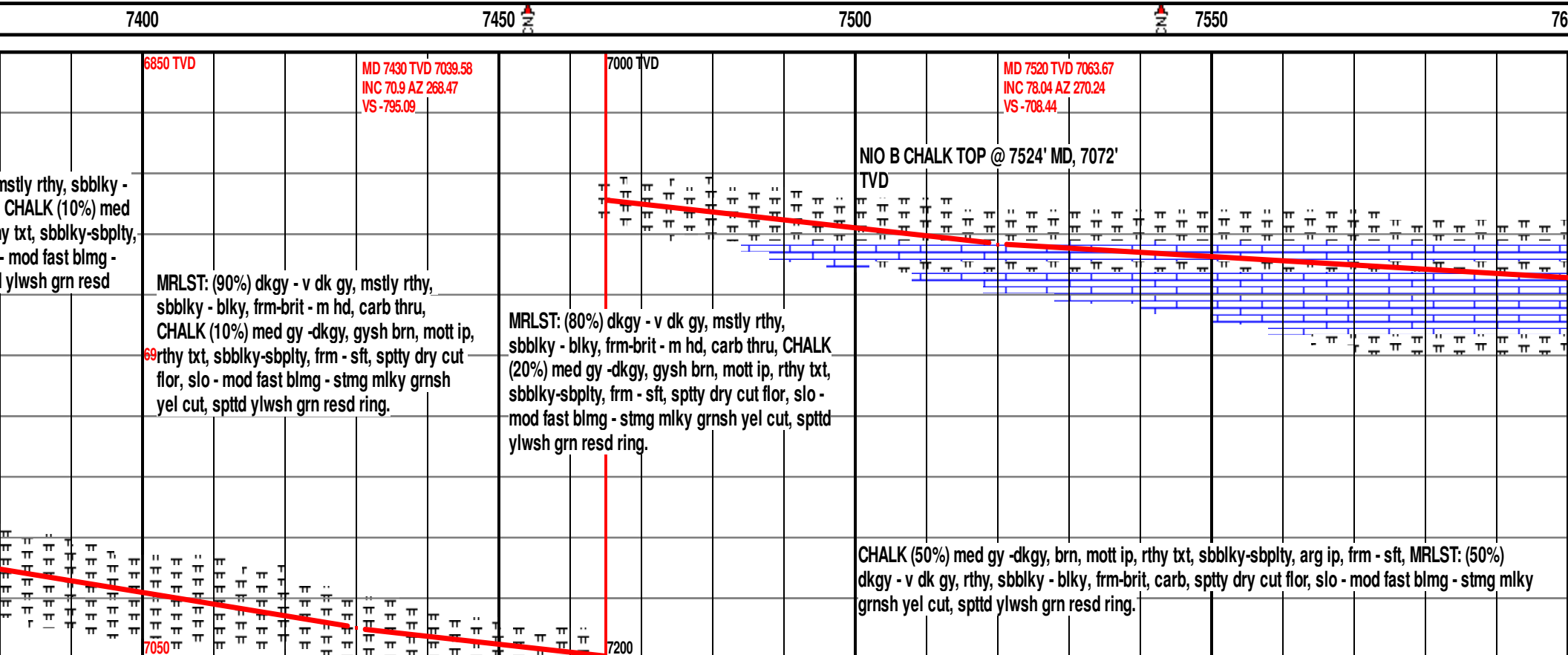
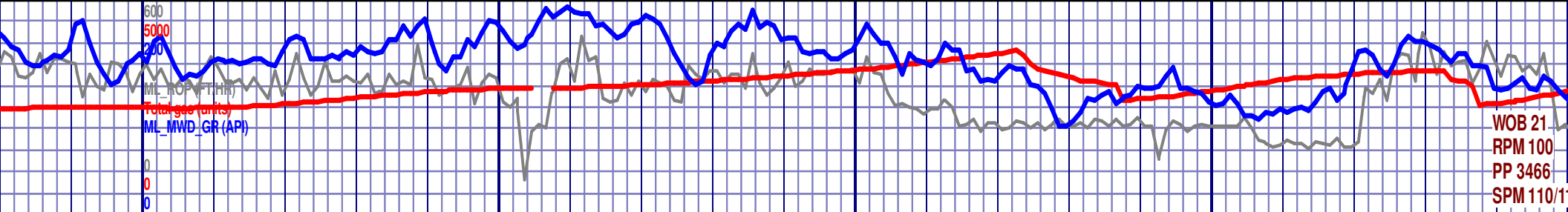
Well  
 Moderate  
 Poor



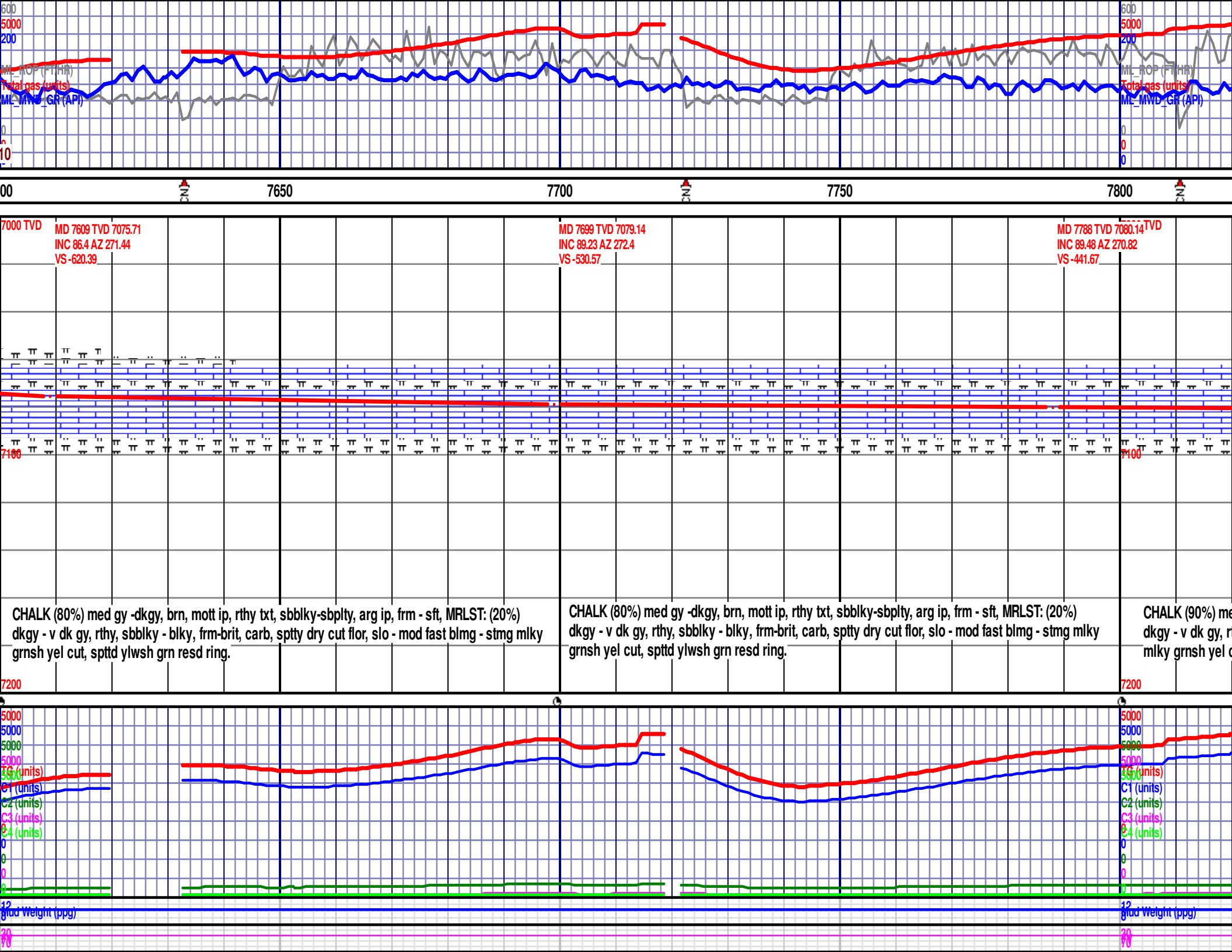


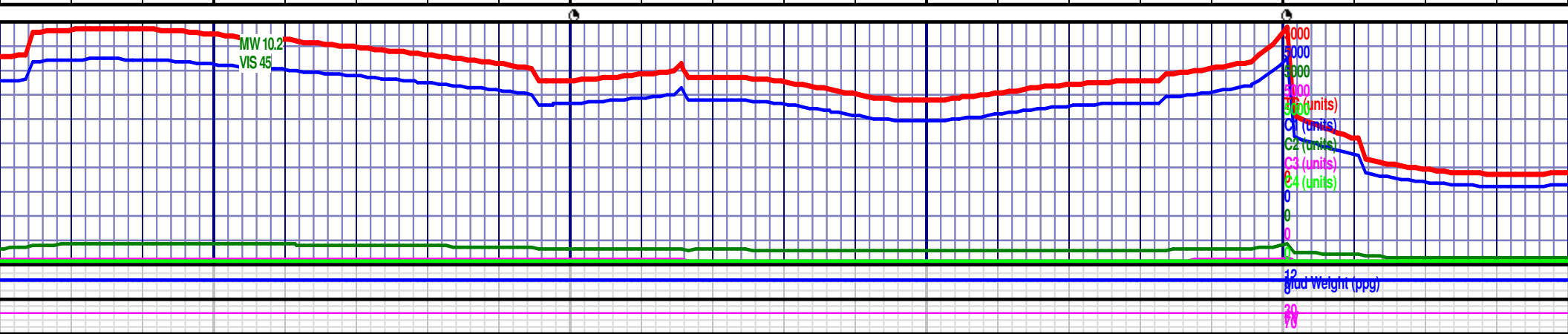
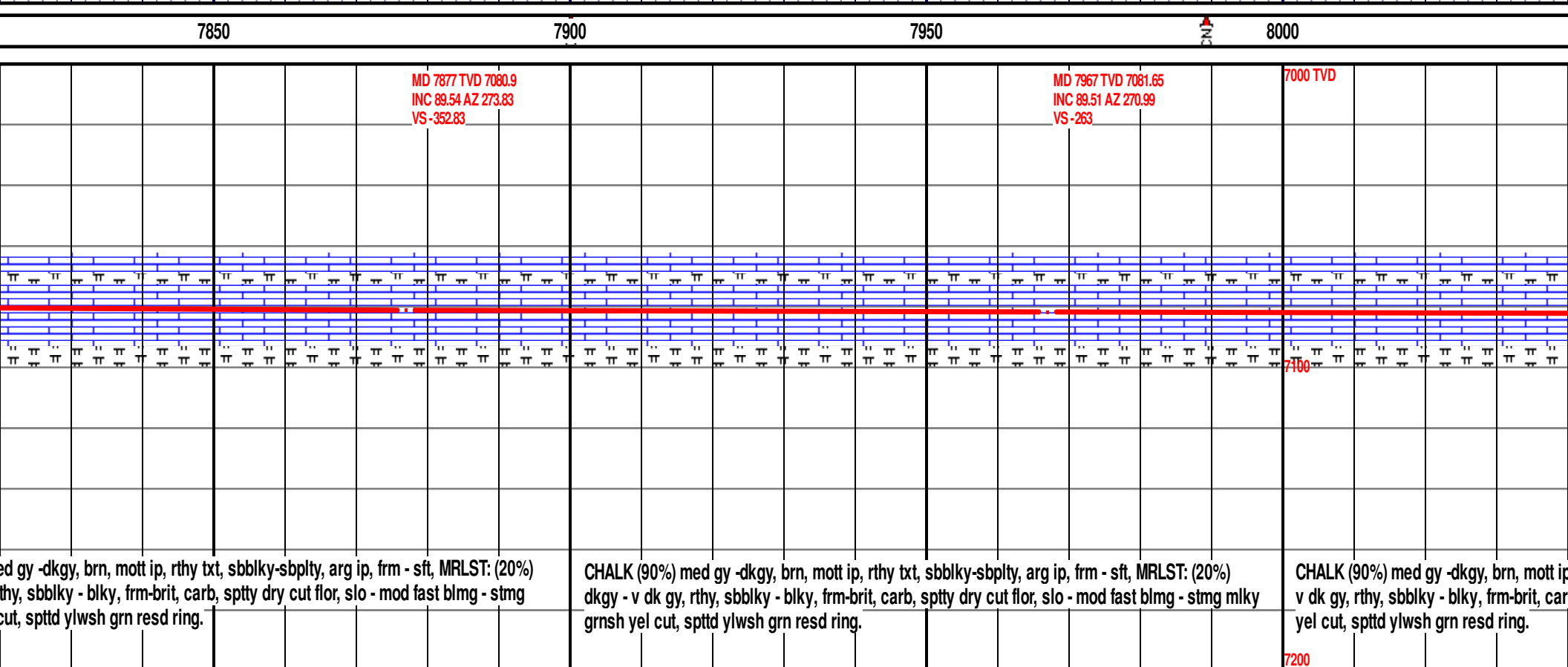
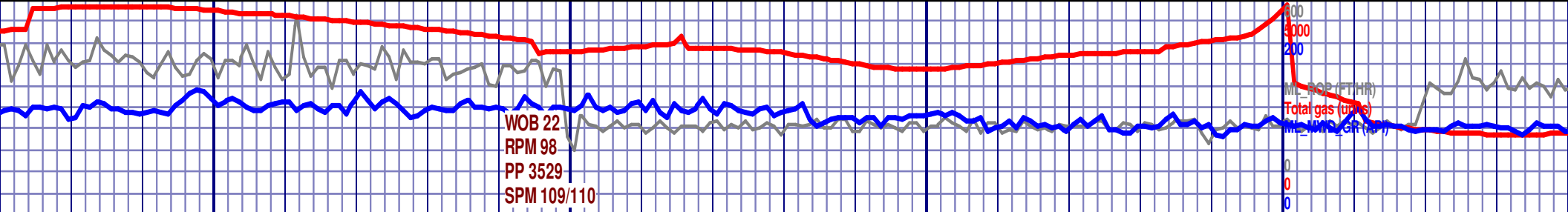


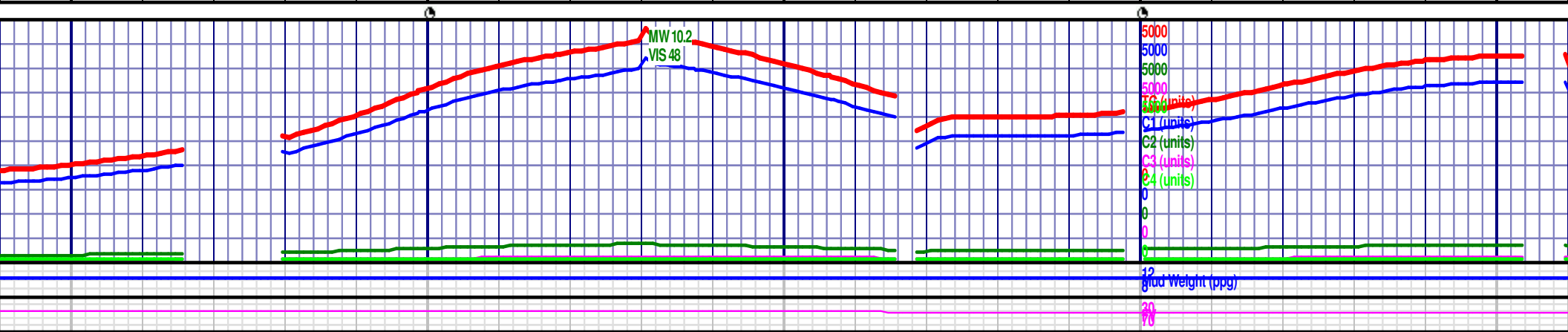
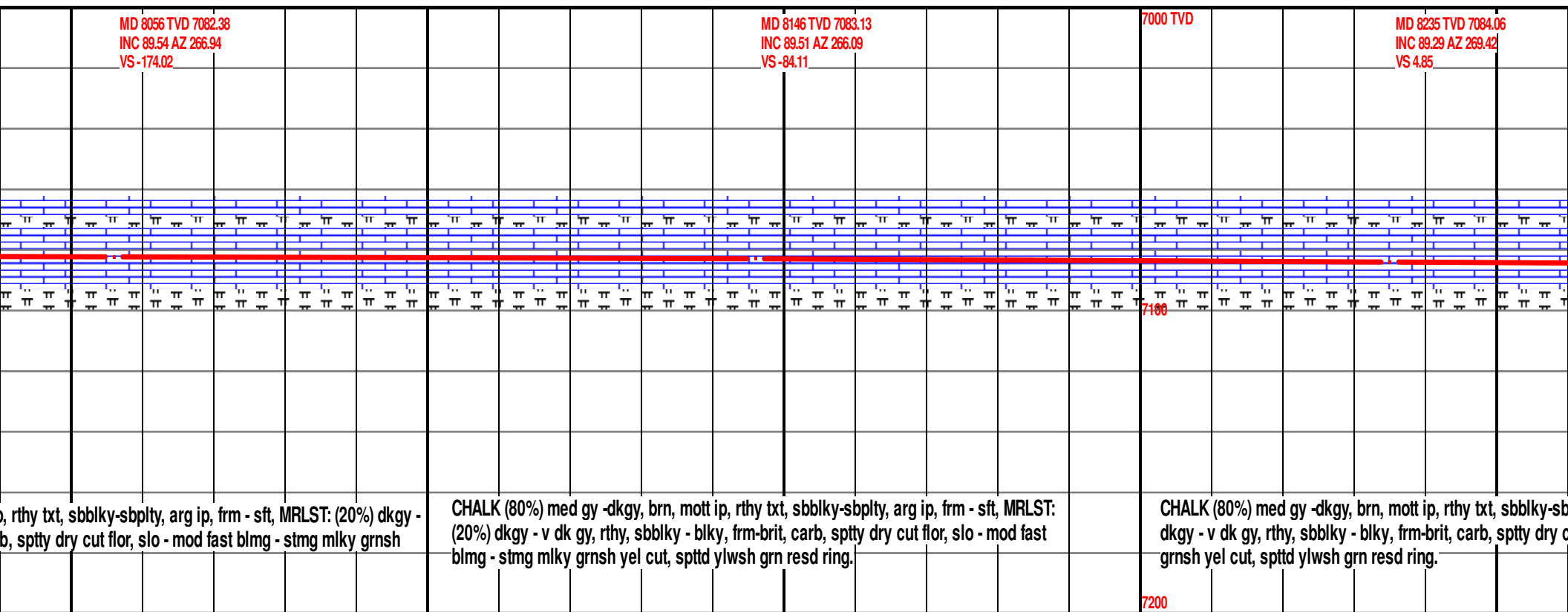




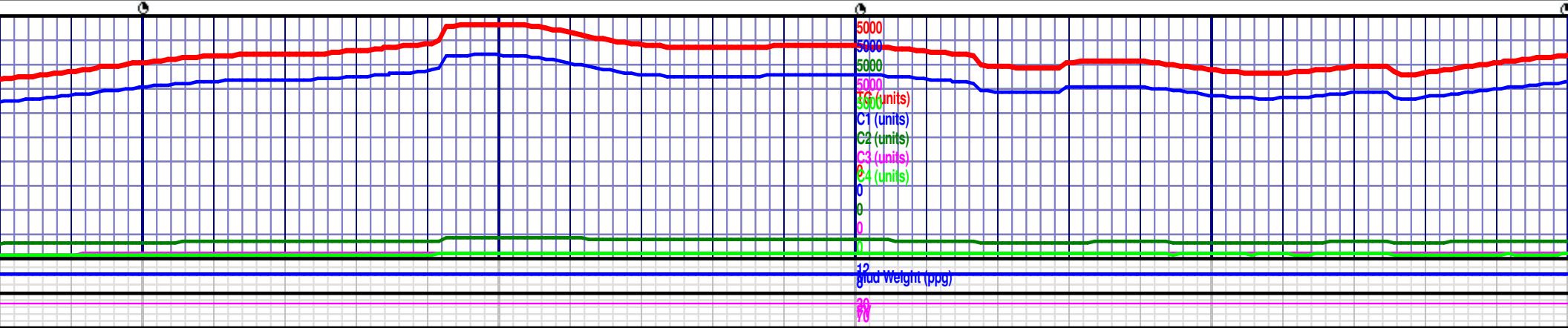
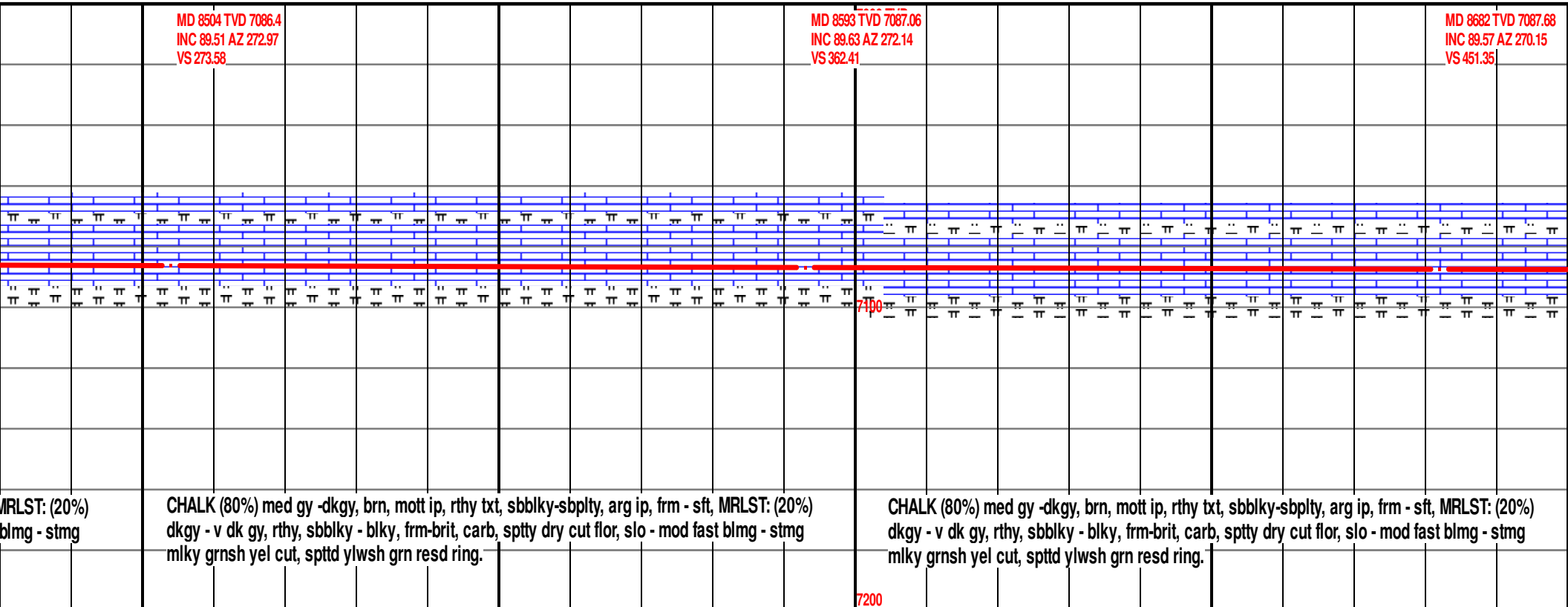
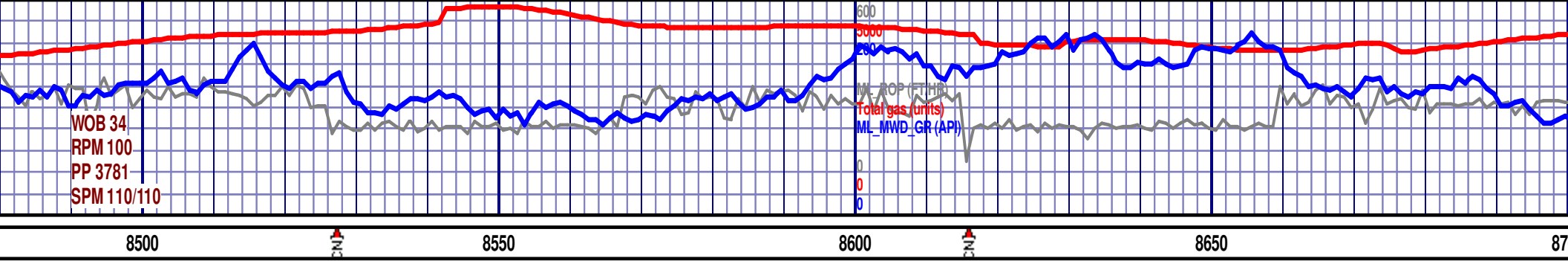






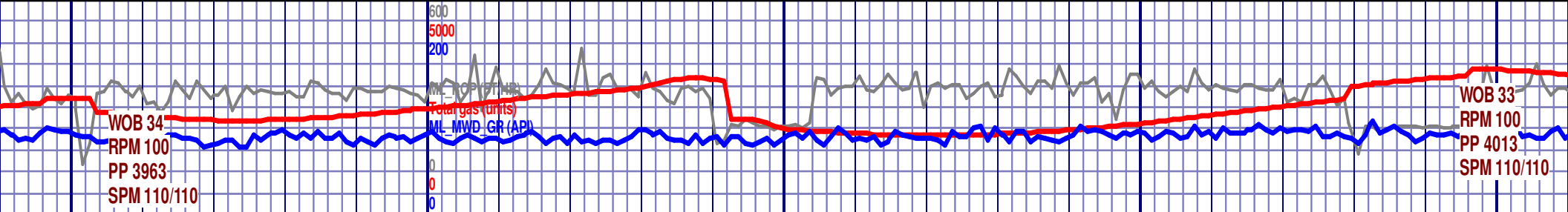




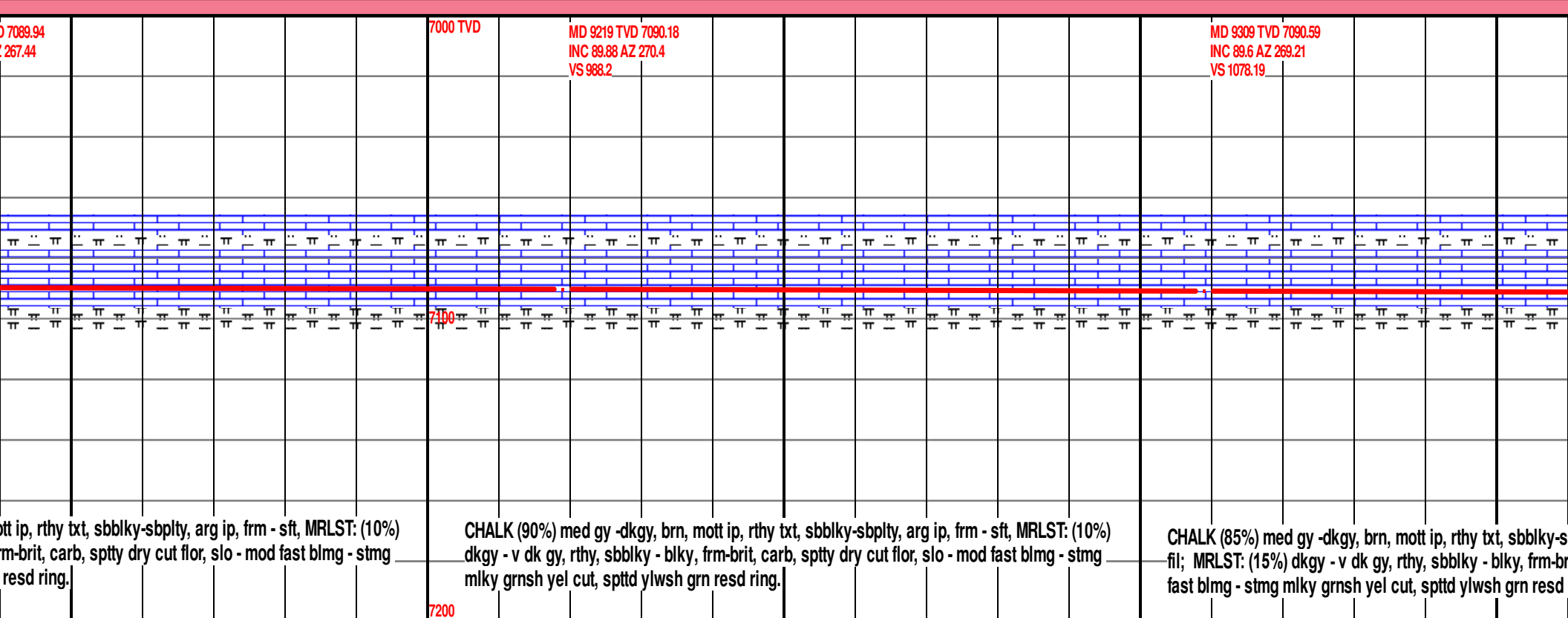






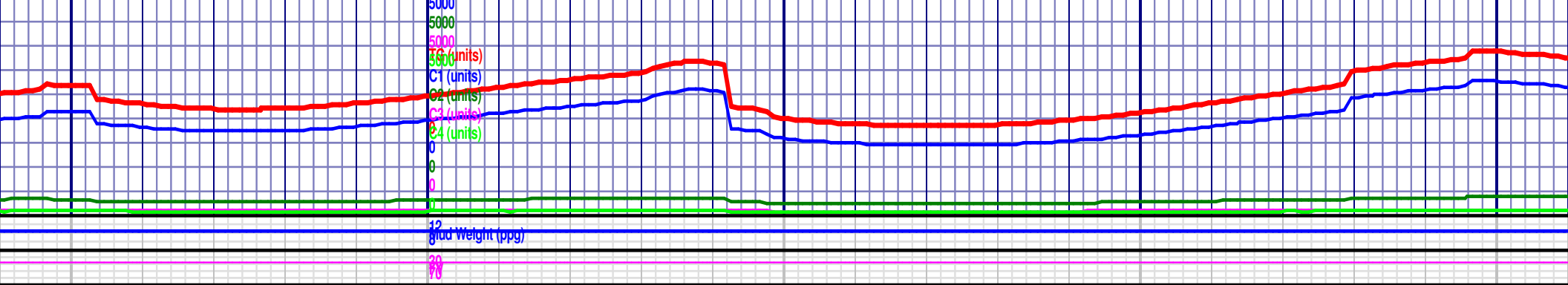


9150 9200 9250 9300 9350



CHALK (90%) med gy -dkgy, brn, mott ip, rthy txt, sbblky-sbplty, arg ip, frm - sft, MRLST: (10%)  
dkgy - v dk gy, rthy, sbblky - blky, frm-brit, carb, sppty dry cut flor, slo - mod fast blmg - stmg  
mlky grnsh yel cut, spttd ylwsh grn resd ring.

CHALK (85%) med gy -dkgy, brn, mott ip, rthy txt, sbblky-s  
fil; MRLST: (15%) dkgy - v dk gy, rthy, sbblky - blky, frm-br  
fast blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd



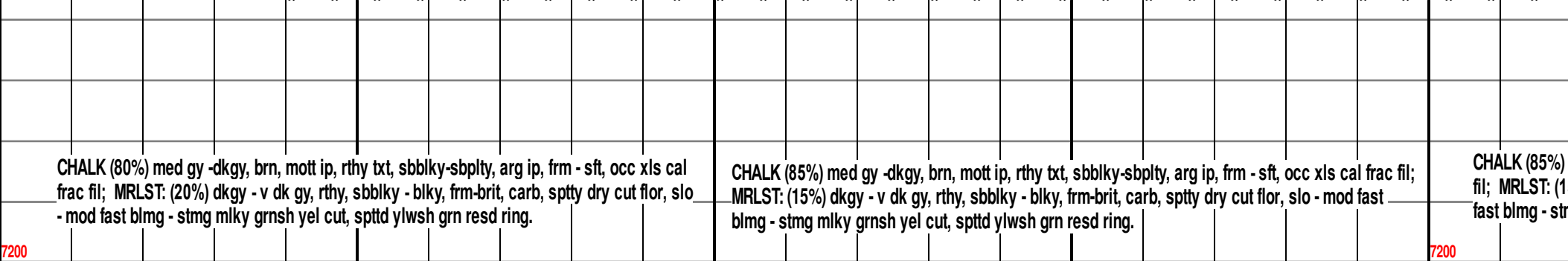




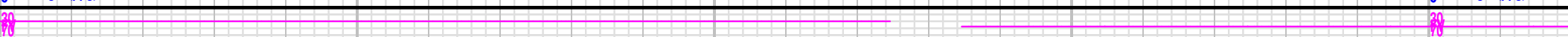


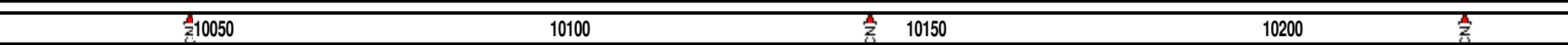


7000 TVD

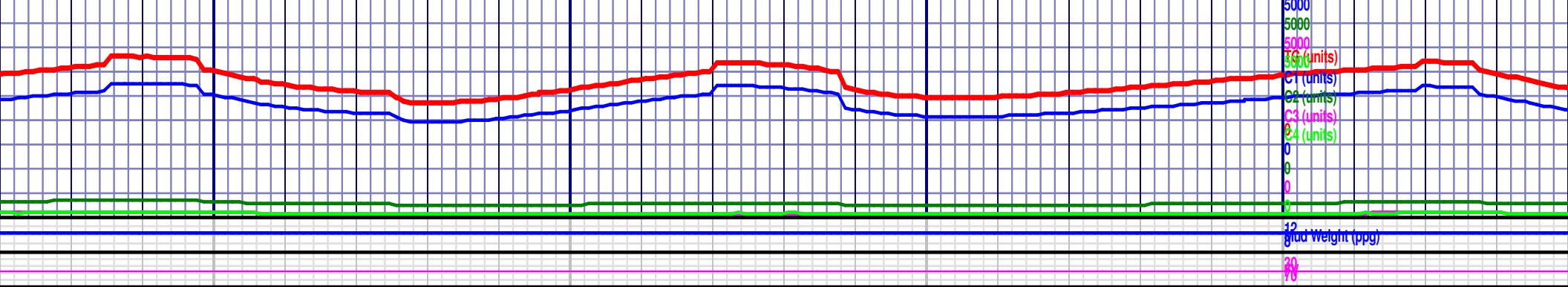
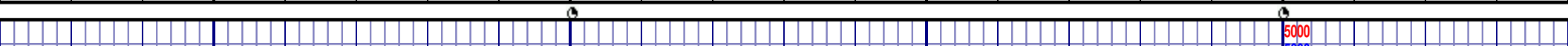


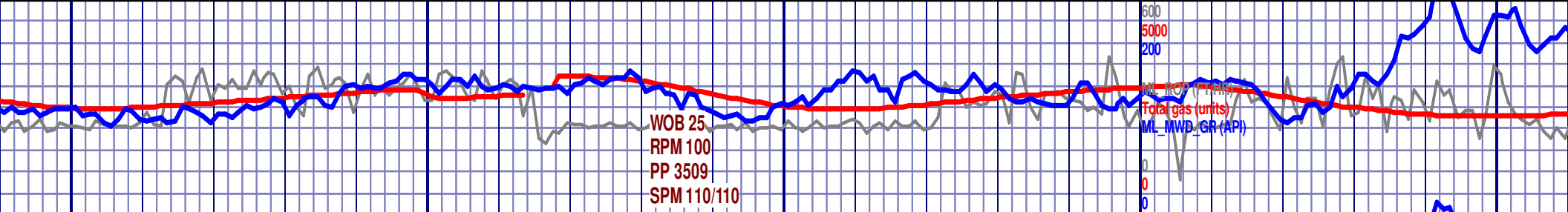
CHALK (85%)  
fil; MRLST: (15  
fast blmg - str





00 TMD 10204 TVD 7099.03  
INC 89.51 AZ 271.69  
VS 1972.05





10250

10300

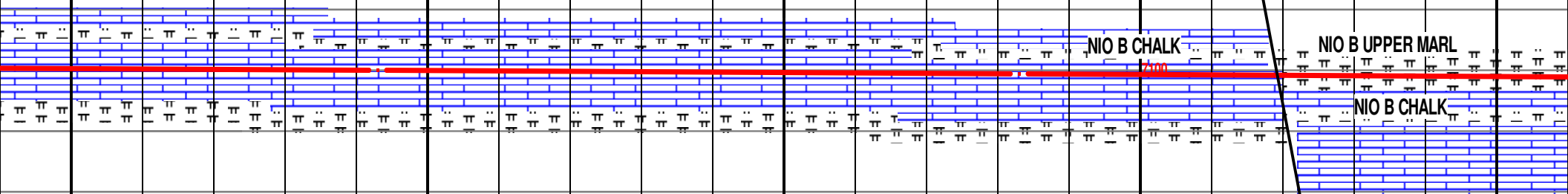
10350

10400

10450

MD 10293 TVD 7099.94  
INC 89.32 AZ 269.17  
VS 2061.01

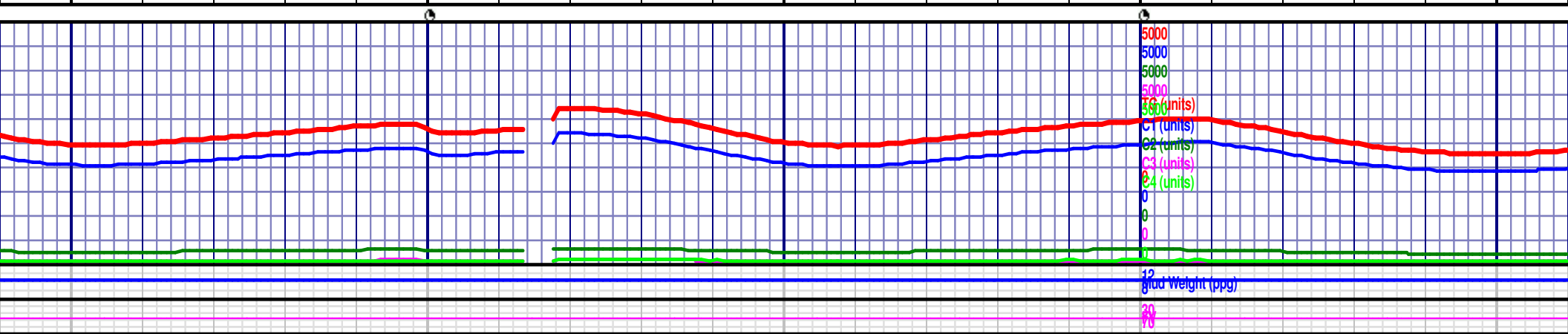
MD 10383 TVD 7101.05  
INC 89.26 AZ 268.58  
VS 2151



mott ip, rthy txt, sbblky-sbplty, arg ip, frm - sft, occ xls cal  
y, rthy, sbblky - blky, frm-brit, carb, sptty dry cut flor, slo -  
l cut, spttd ylwsh grn resd ring.

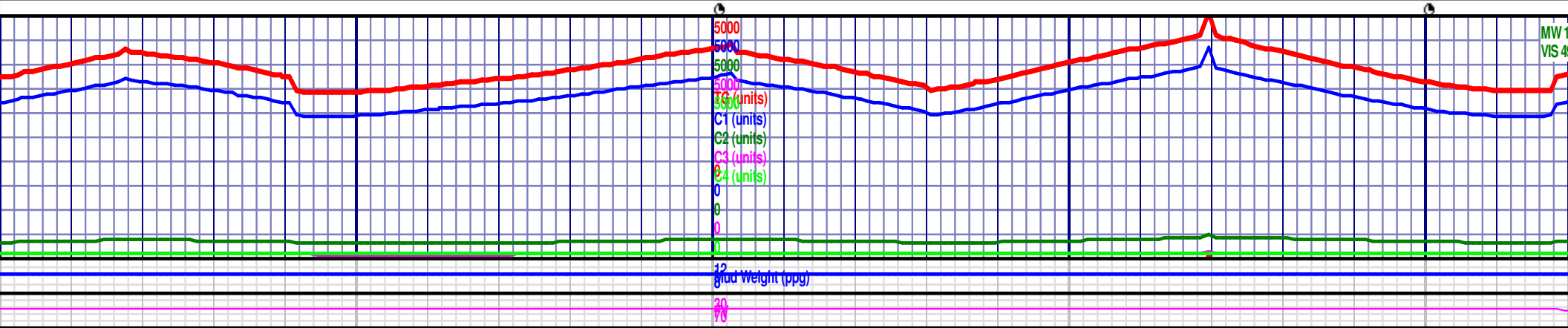
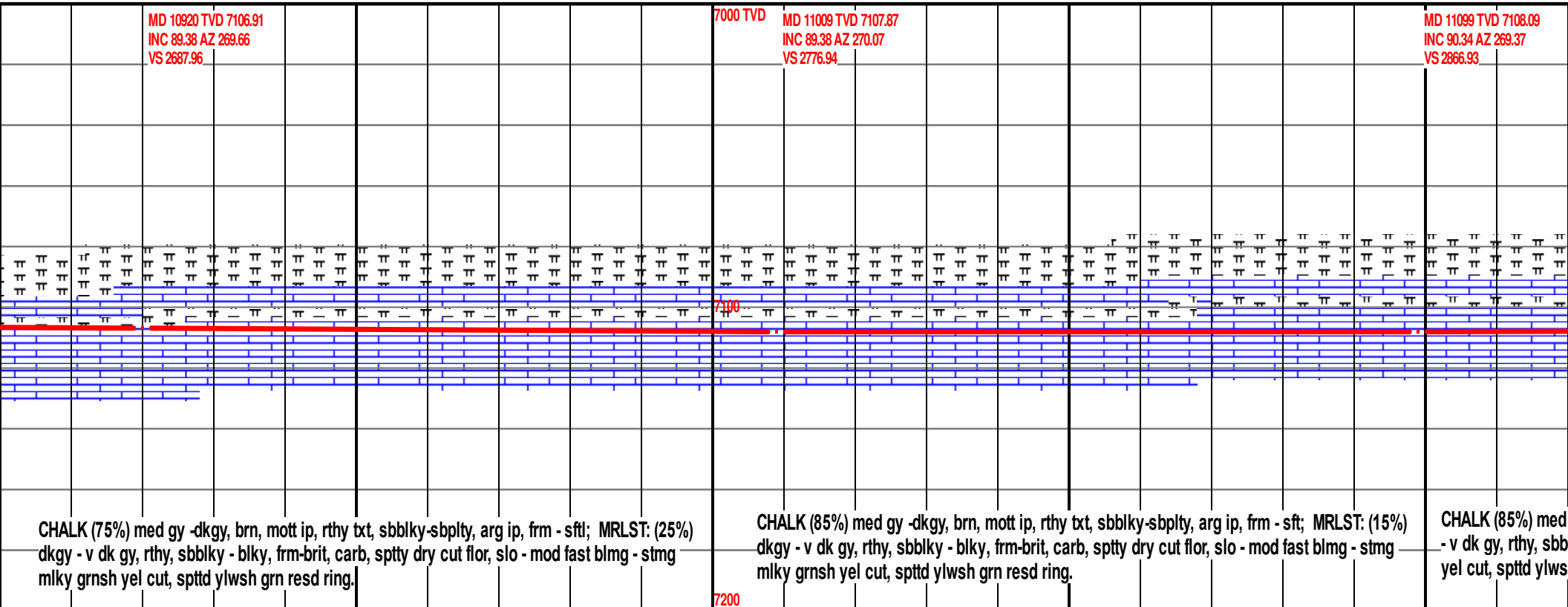
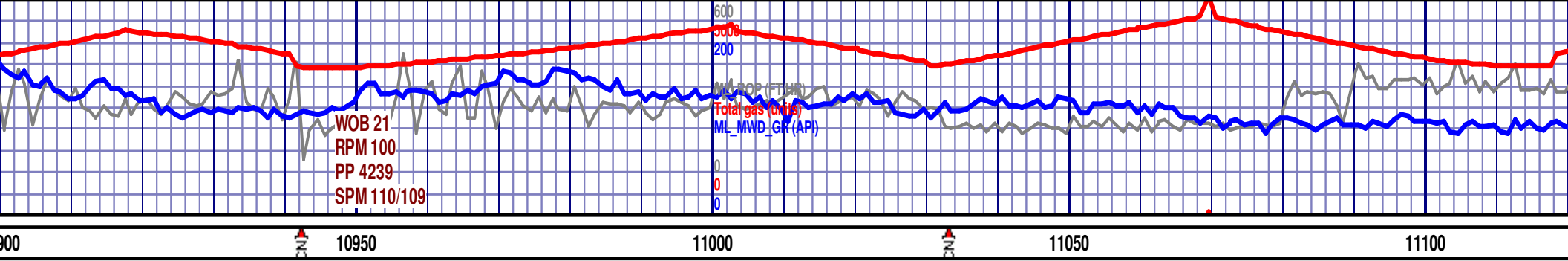
CHALK (75%) med gy -dkgy, brn, mott ip, rthy txt, sbblky-sbplty, arg ip, frm - sft, occ xls cal frac fil;  
MRLST: (25%) dkgy - v dk gy, rthy, sbblky - blky, frm-brit, carb, sptty dry cut flor, slo - mod fast  
blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd ring.

CHALK (65%) med gy -dkgy, brn, mott ip, rthy txt, sbblky  
fil; MRLST: (35%) dkgy - v dk gy, rthy, sbblky - blky, frm-  
fast blmg - stmg mlky grnsh yel cut, spttd ylwsh grn res











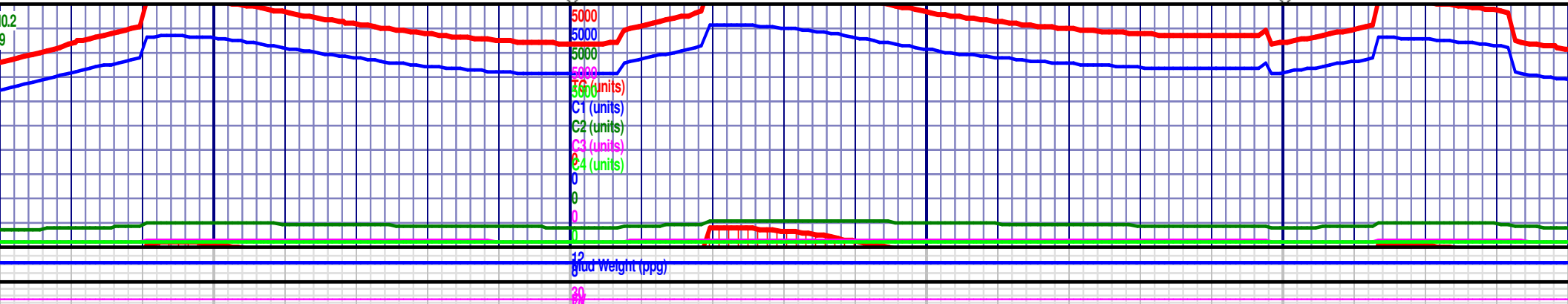


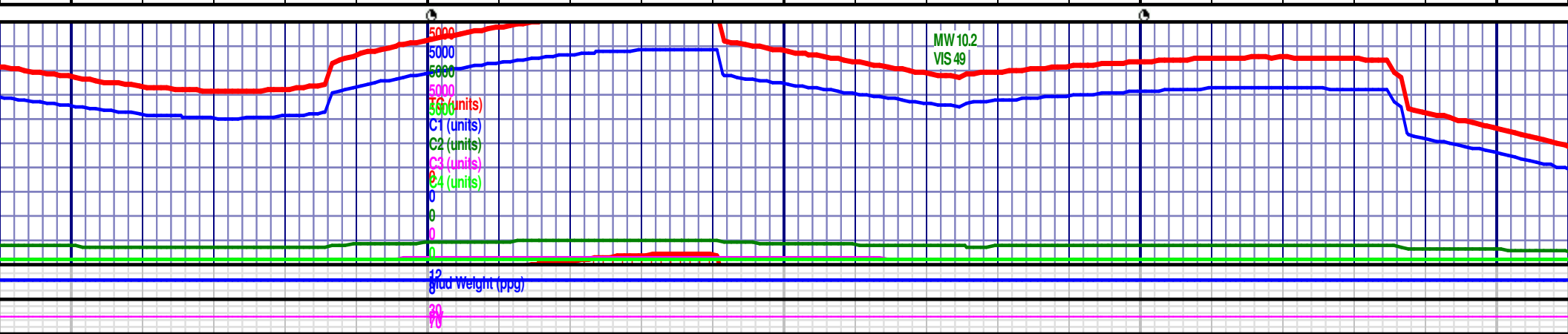
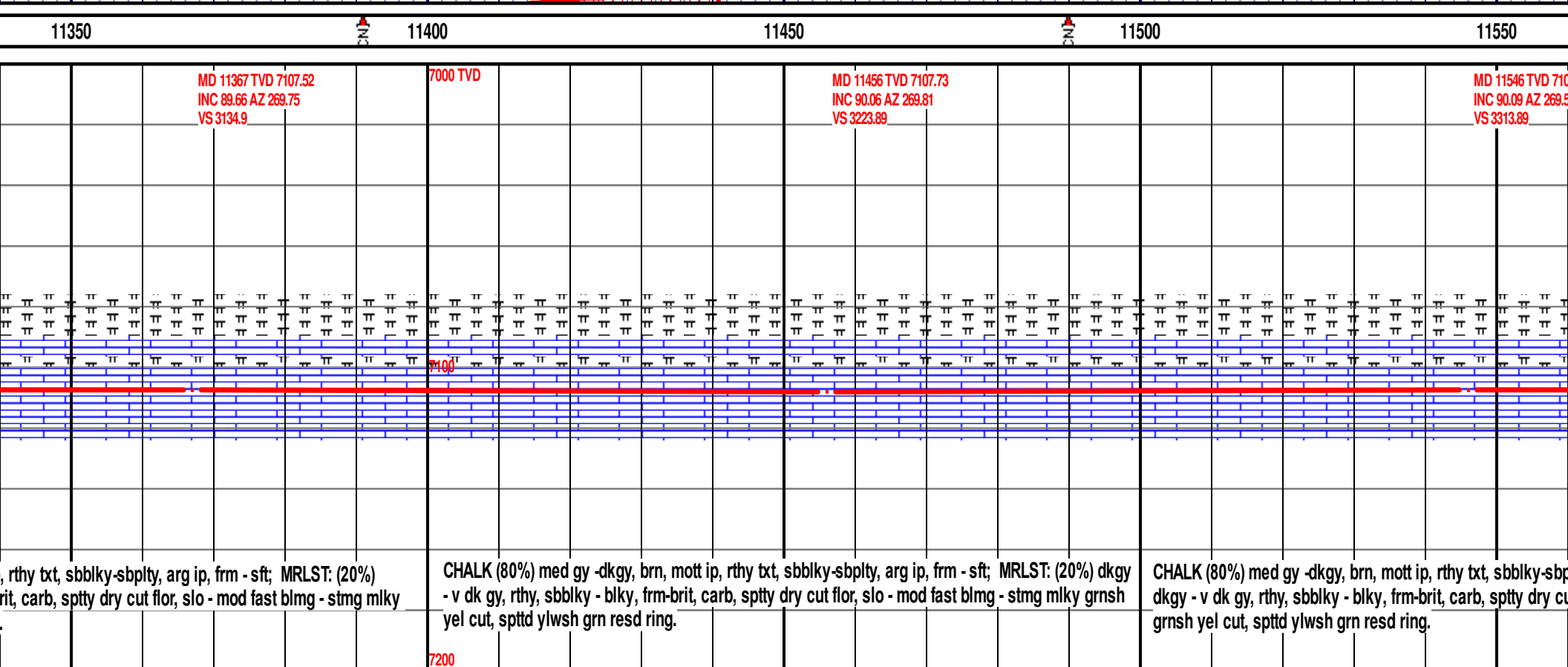
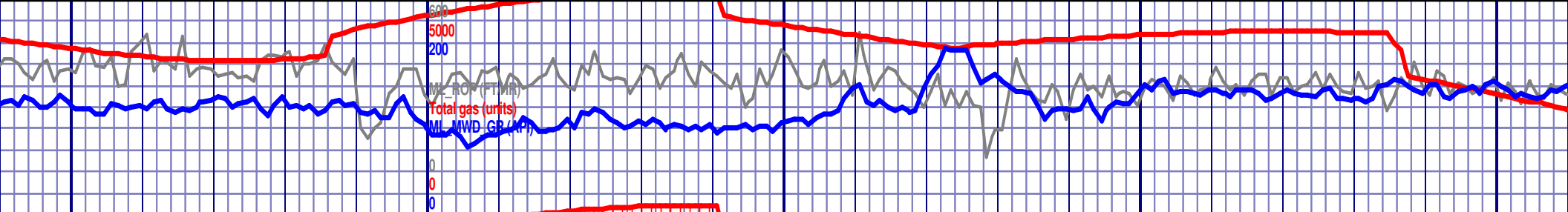
ML\_MWD GR (API)

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INC 90.22 AZ 269.88  
VS 3045.91

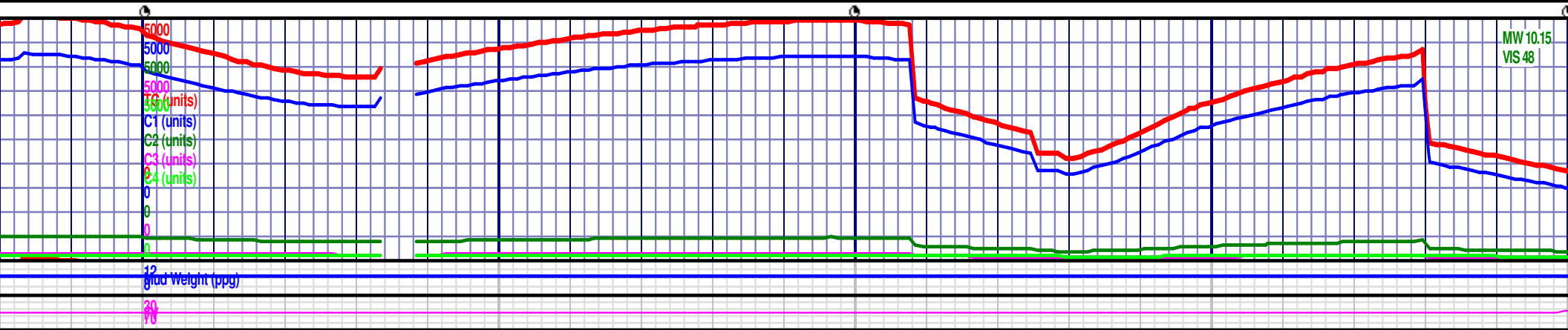
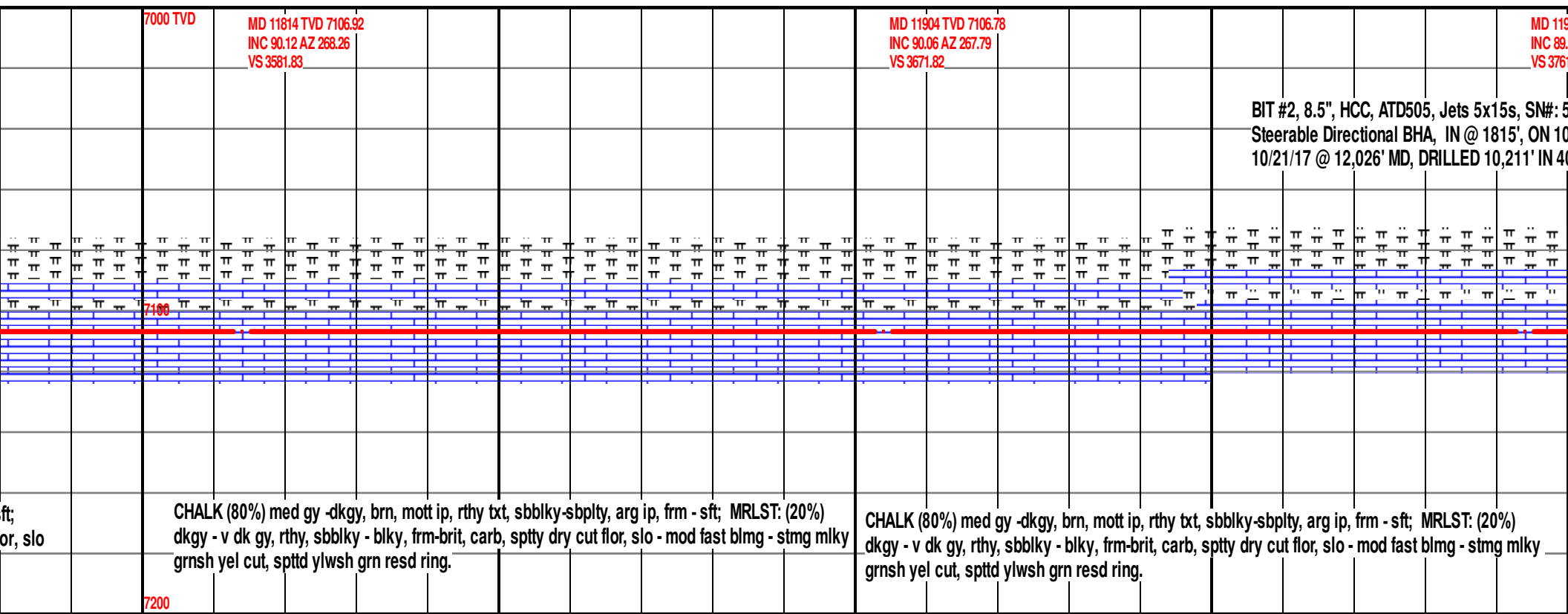
CHALK (85%) med gy -dkgy, brn, mott ip, rthy txt, sbblky-sbplty, arg ip, frm - sft; MRLST: (15%)  
dkgy - v dk gy, rthy, sbblky - blky, frm-brit, carb, spty dry cut flor, slo - mod fast blmg - stmg  
mlky grnsh vel cut. spttd vlvsh grn resd ring.

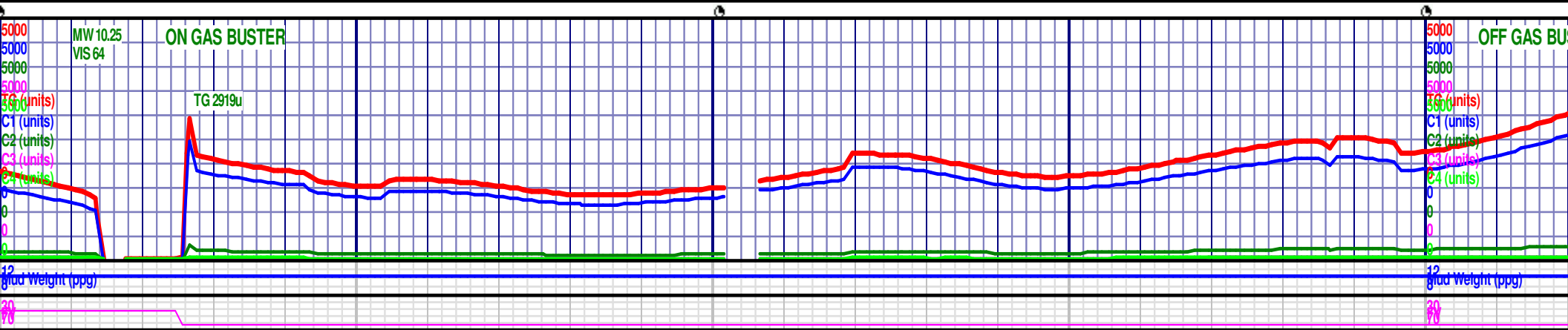
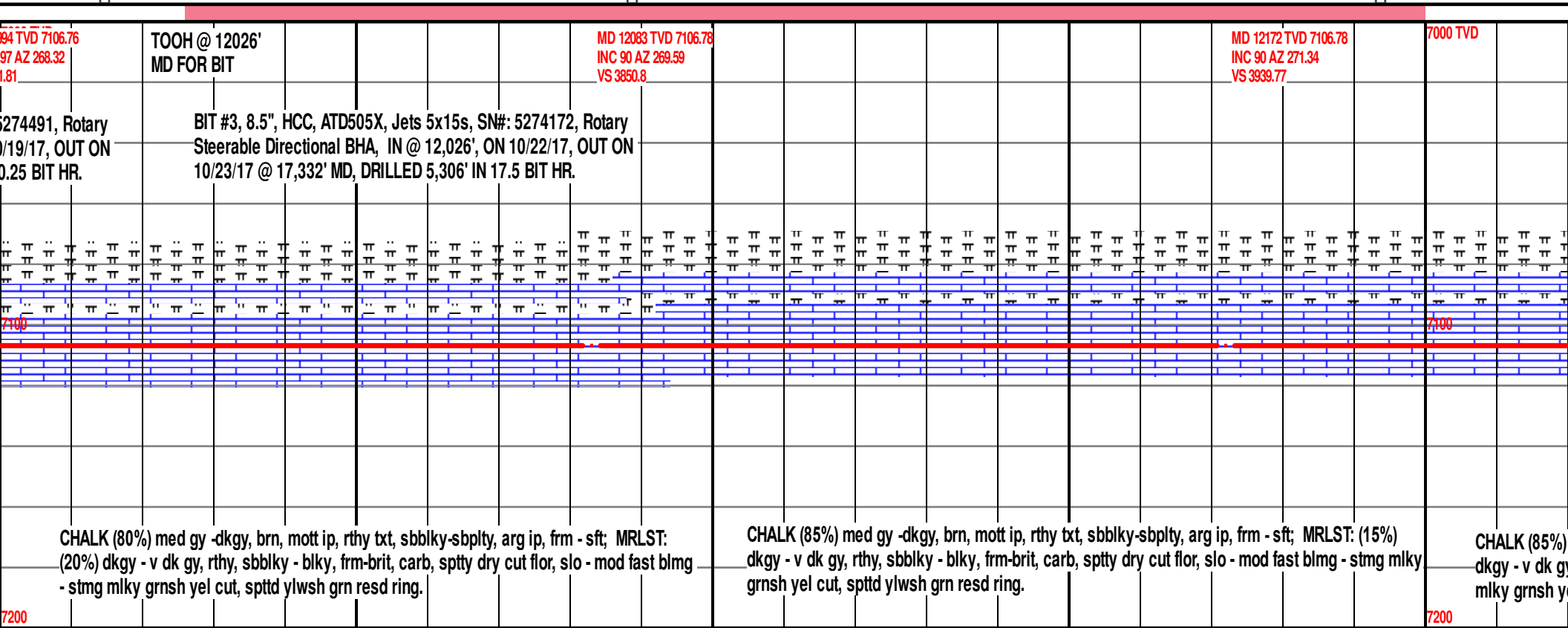
CHALK (80%) med gy -dkgy, brn, mott ip  
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grnsh yel cut, spstd ylwsh grn resd ring

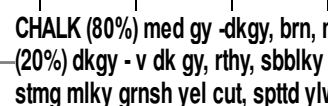
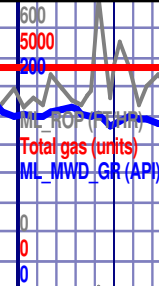


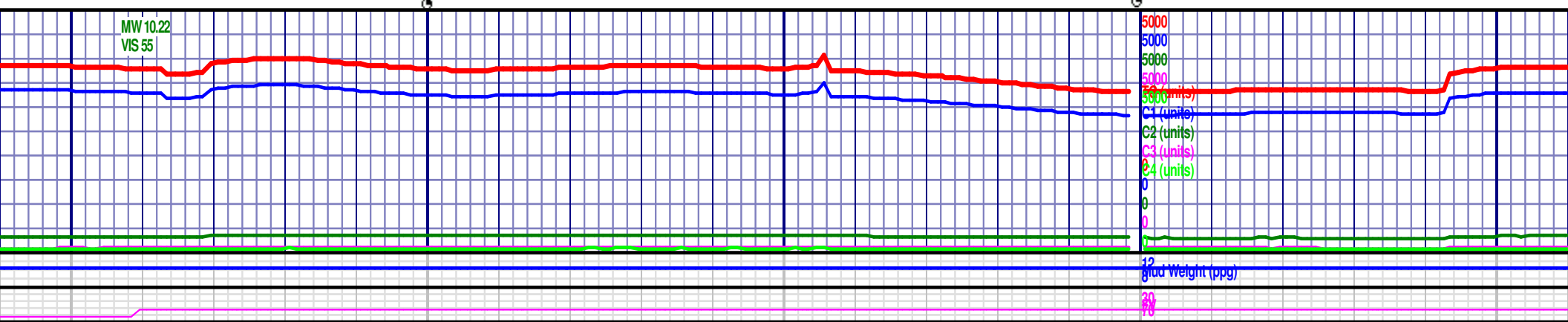
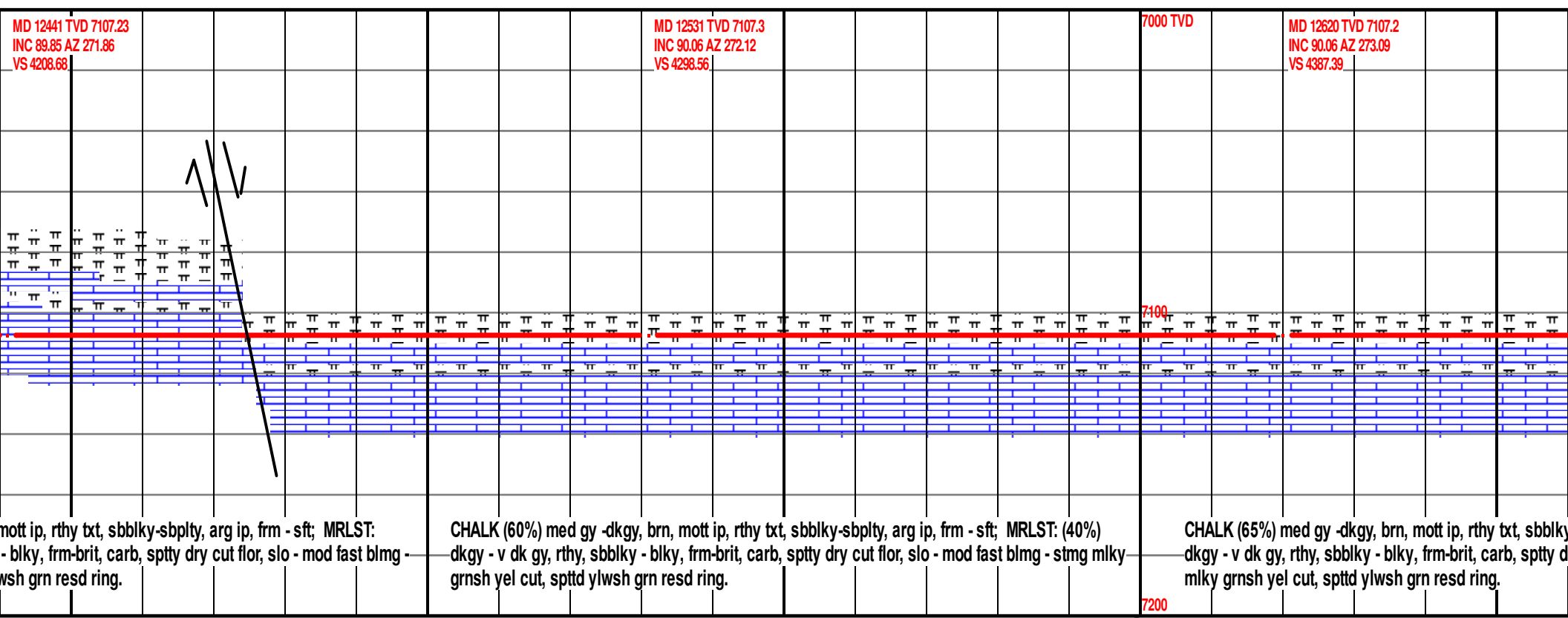
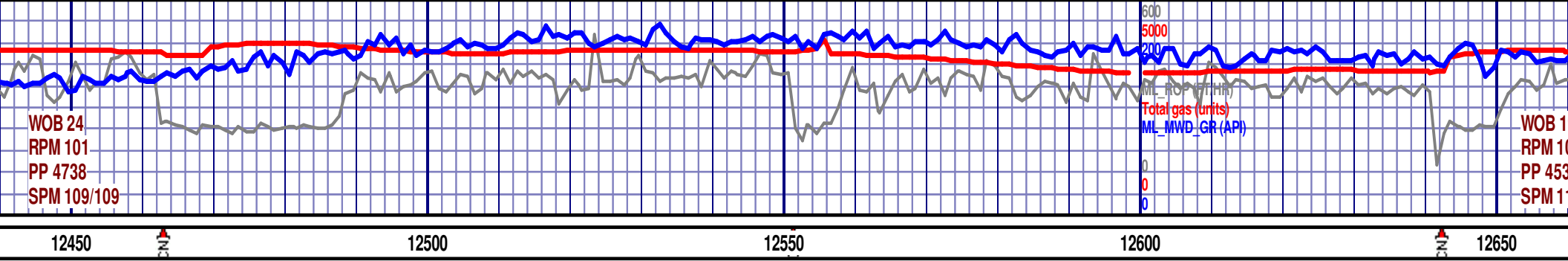






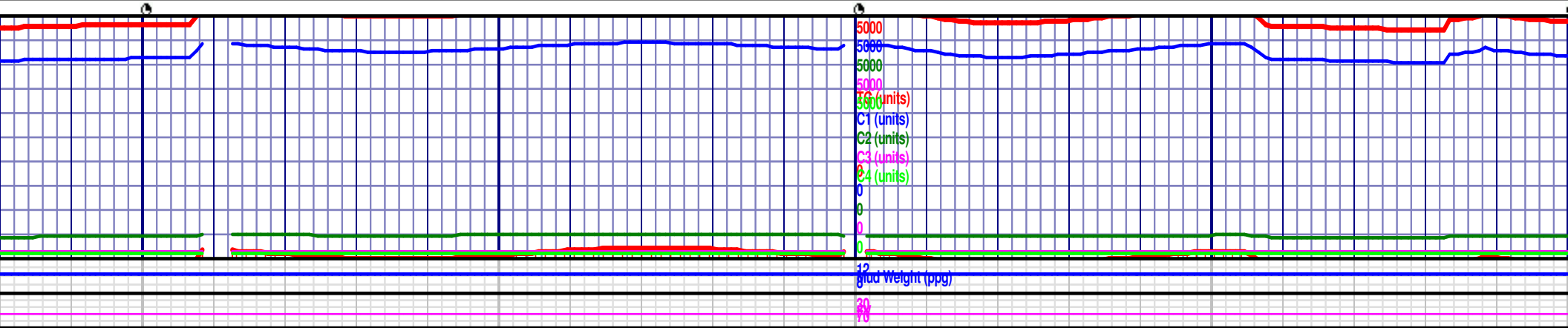
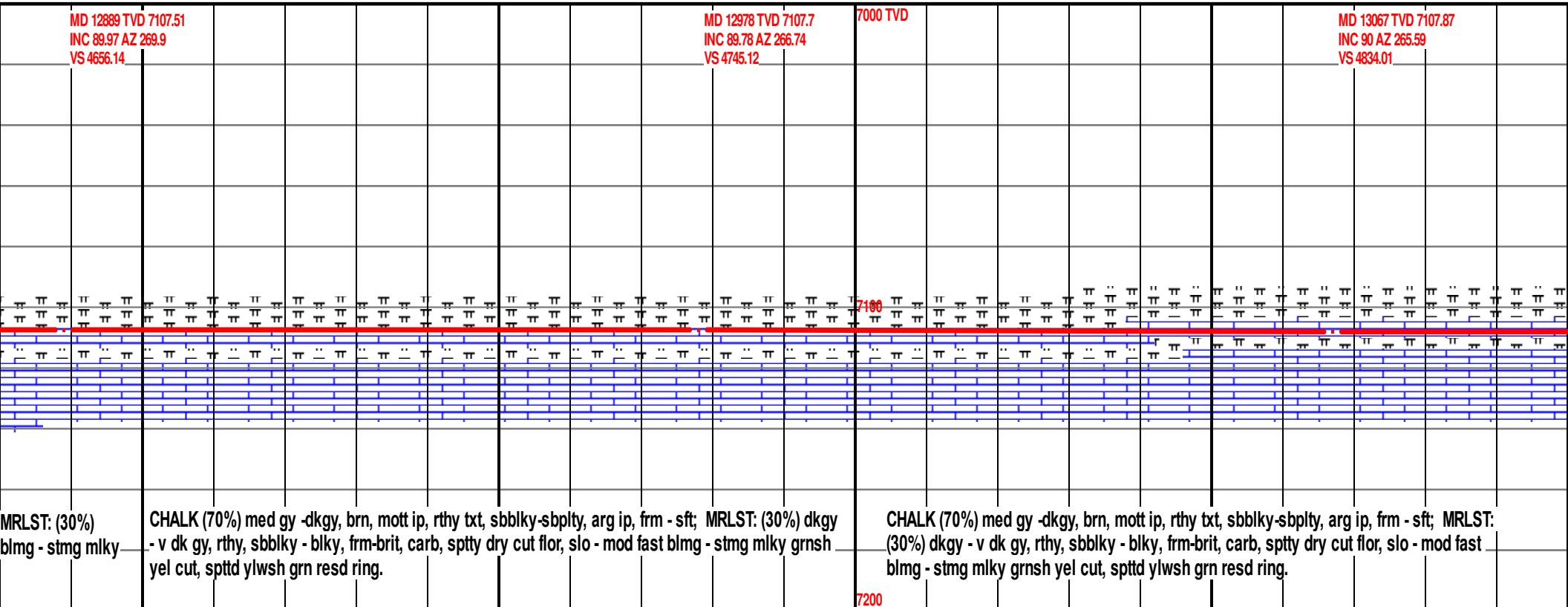
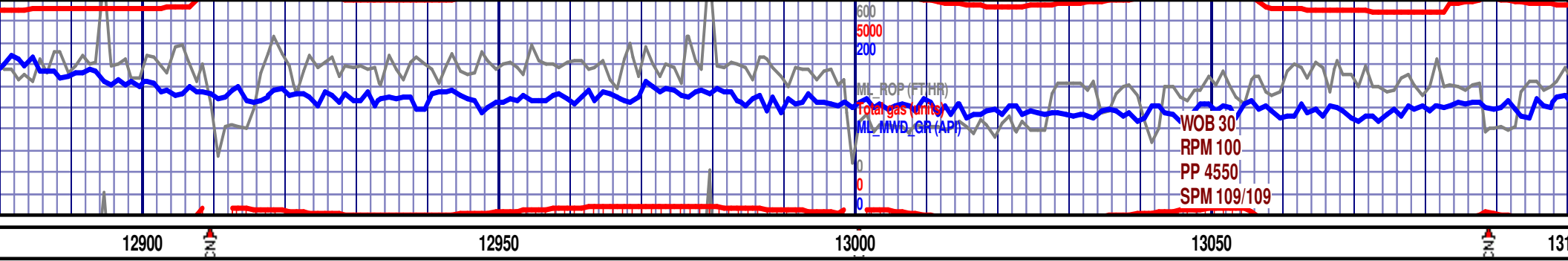


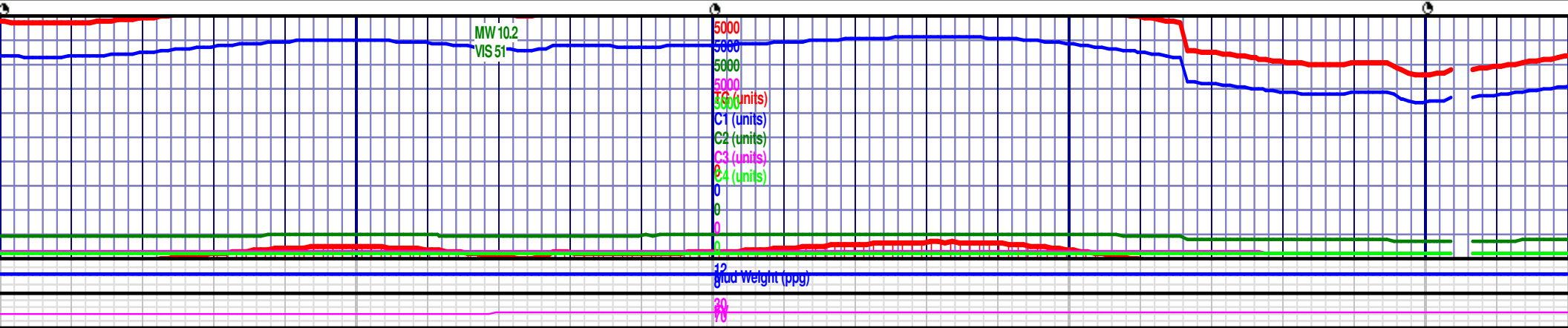
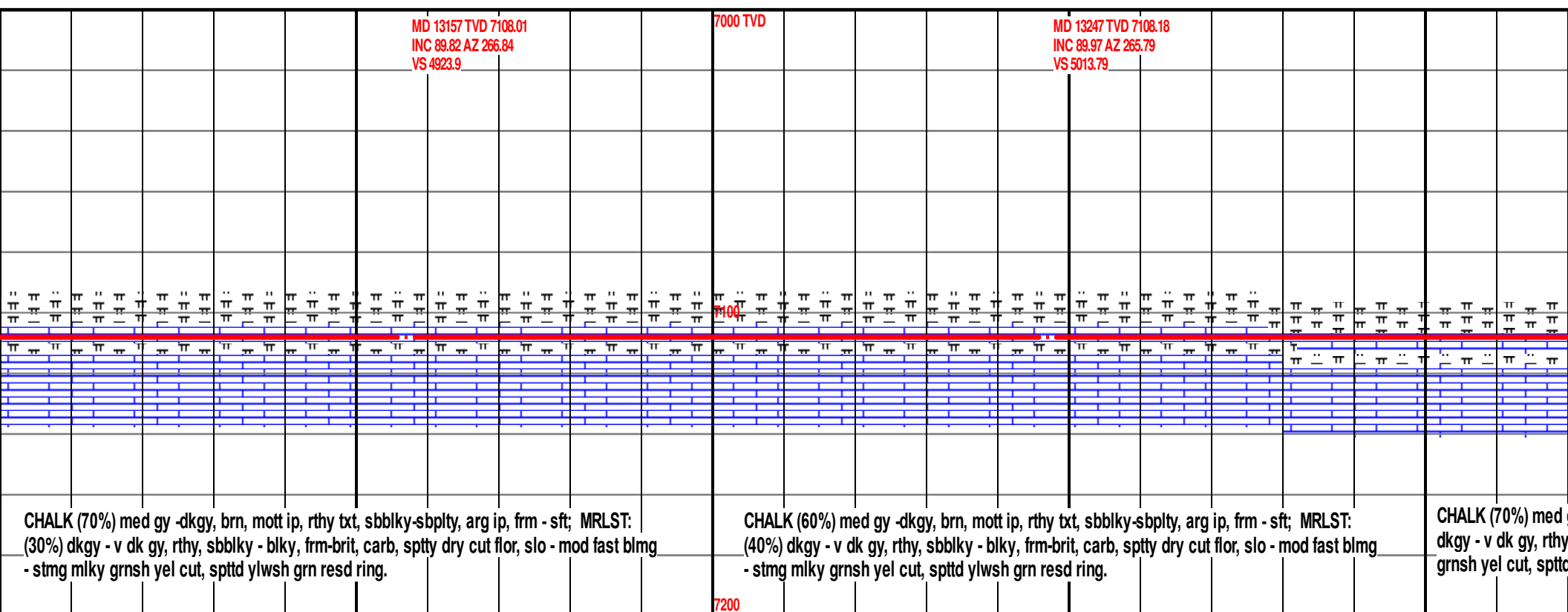
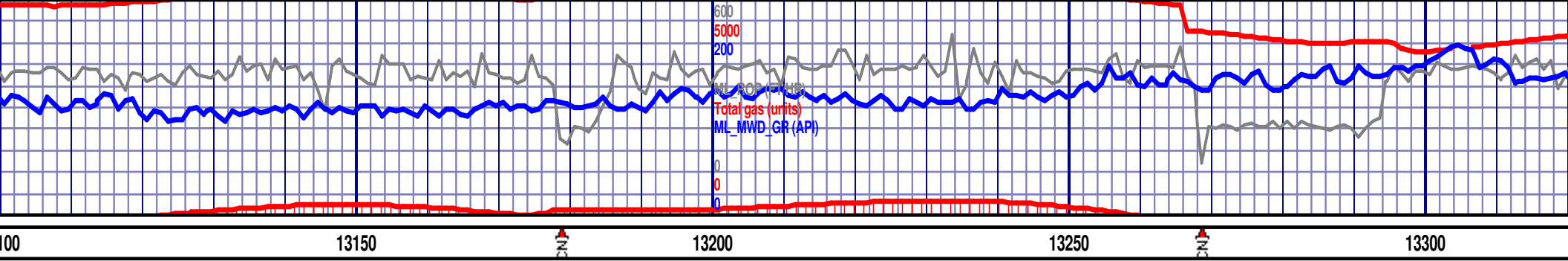


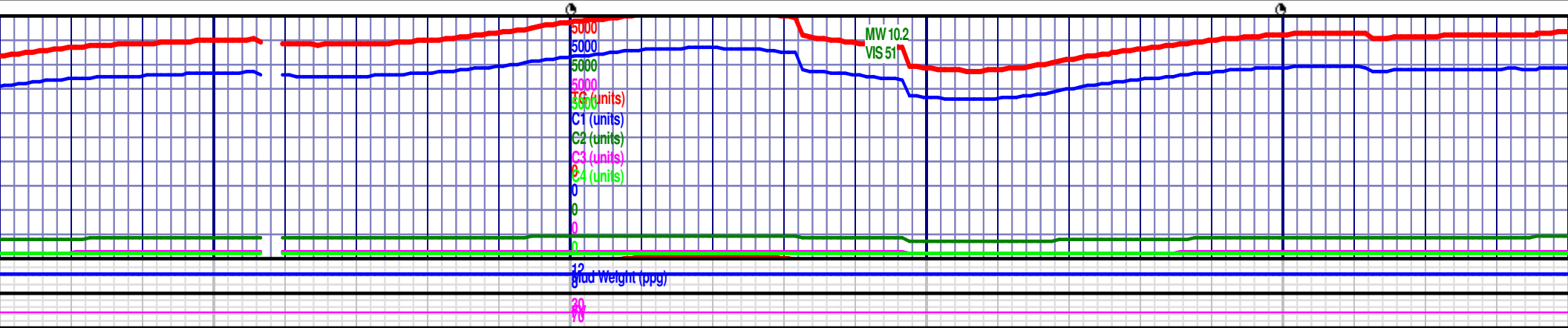
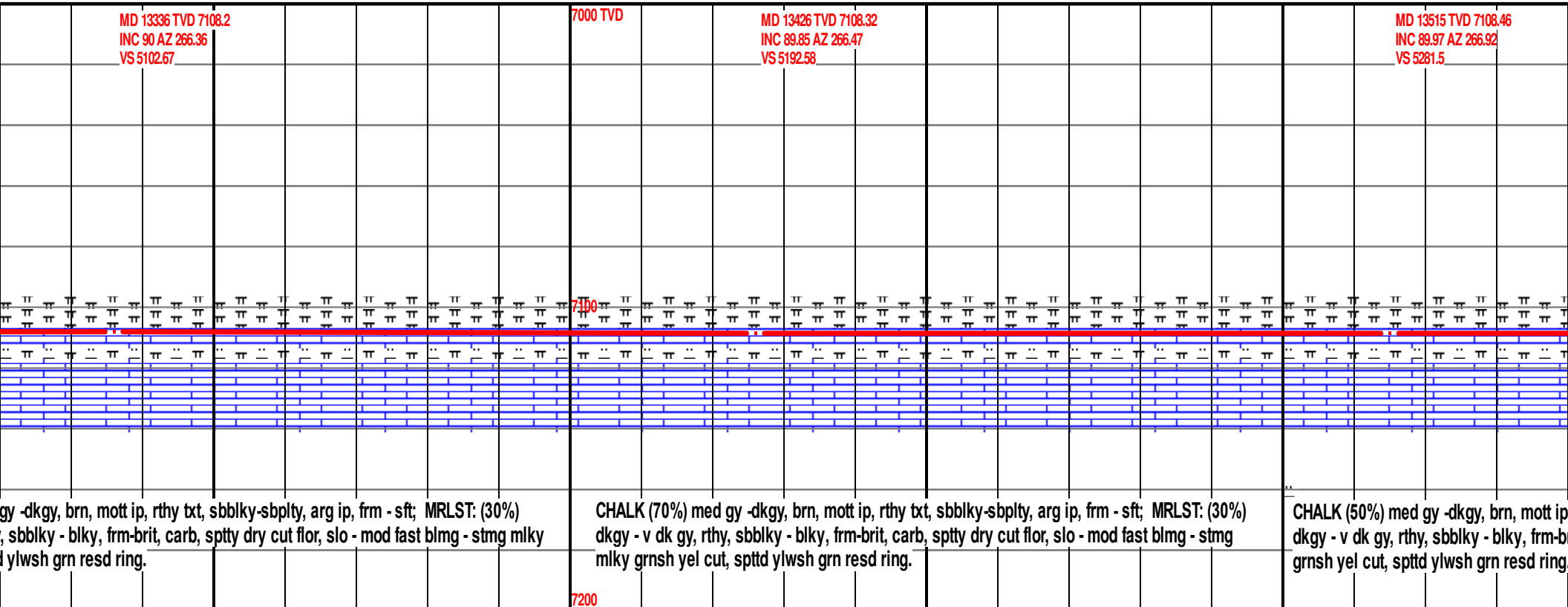
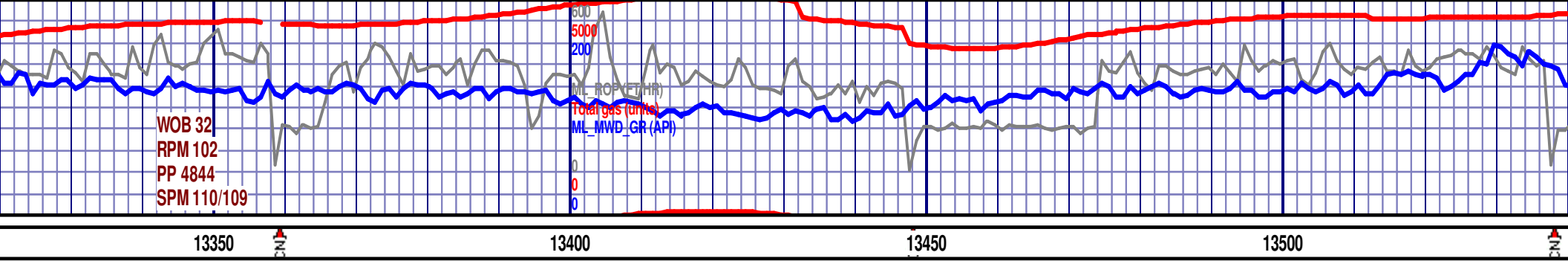


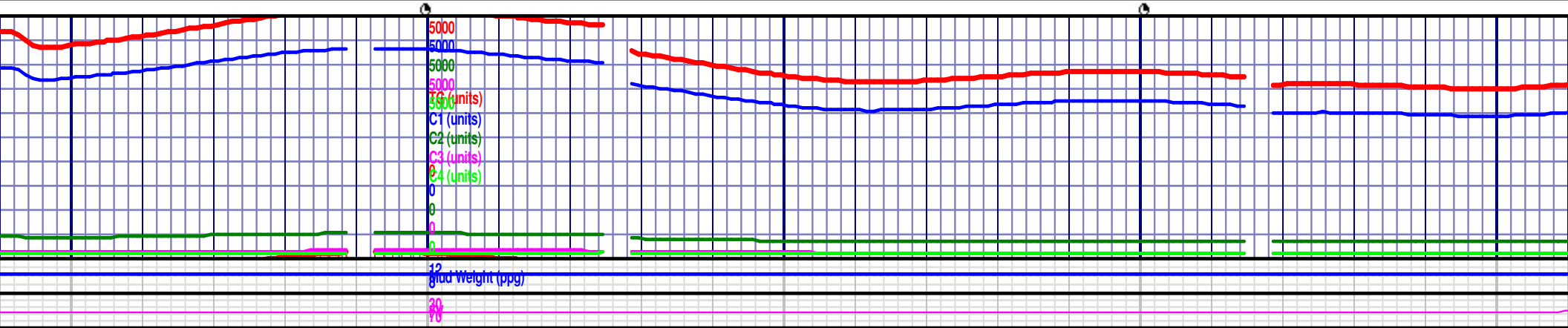
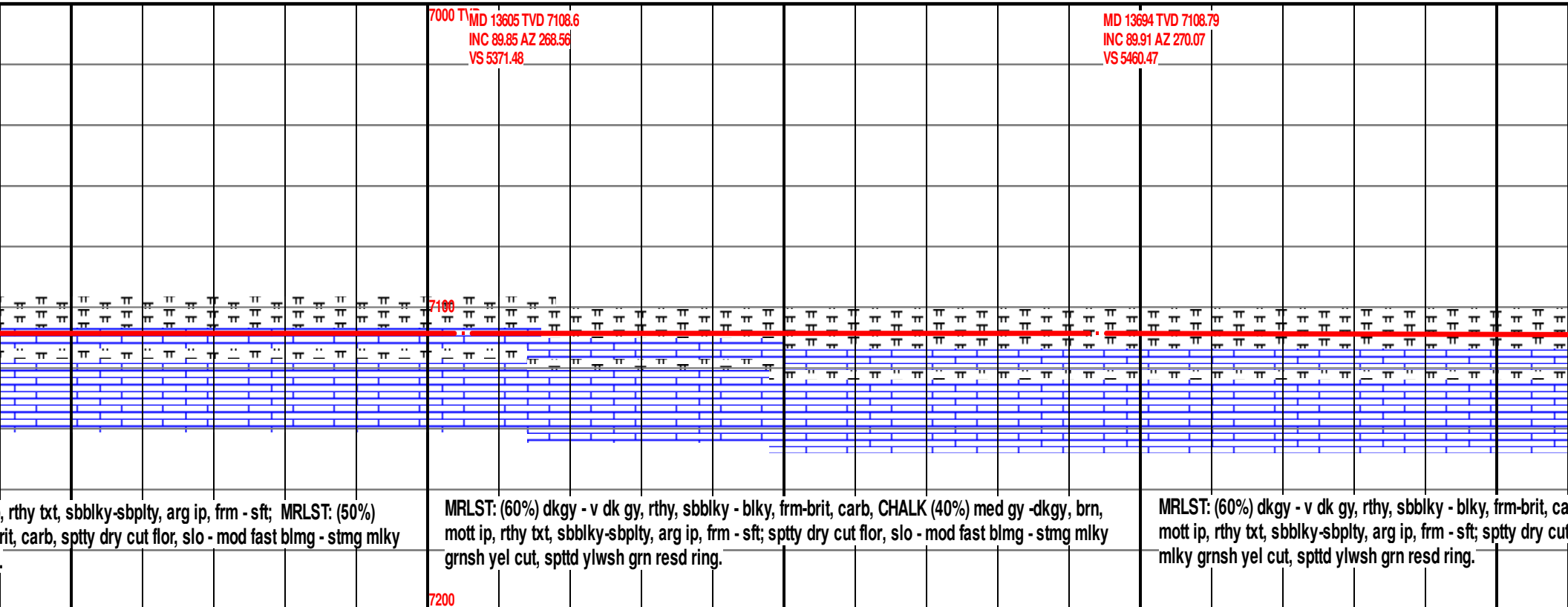
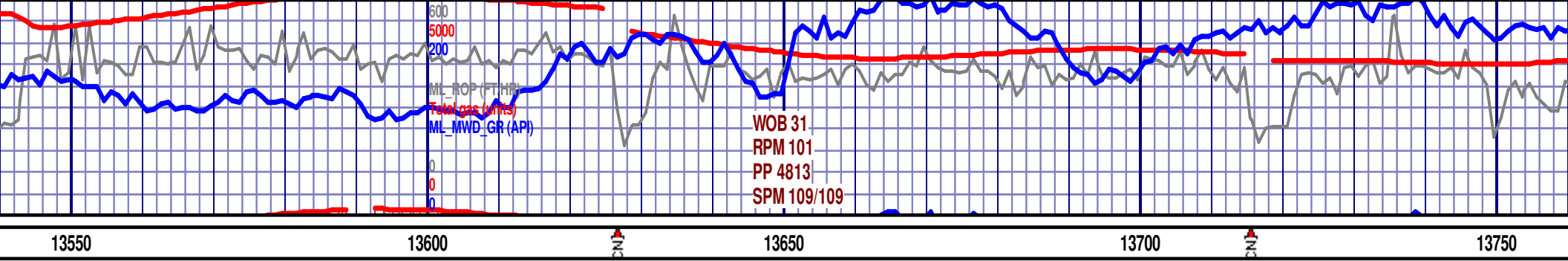


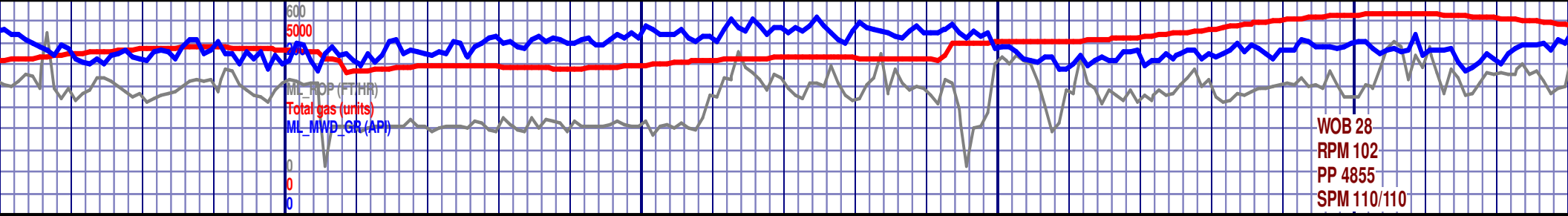












13800

13850

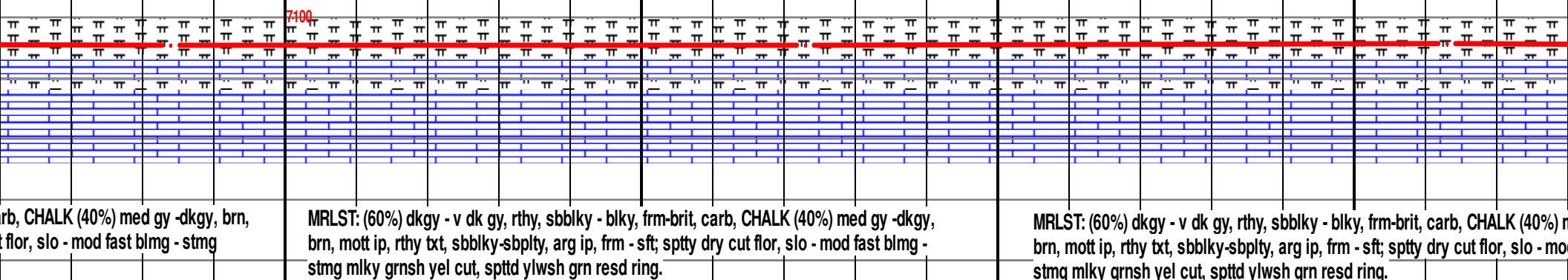
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13950

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INC 89.91 AZ 271.59  
VS 5550.43

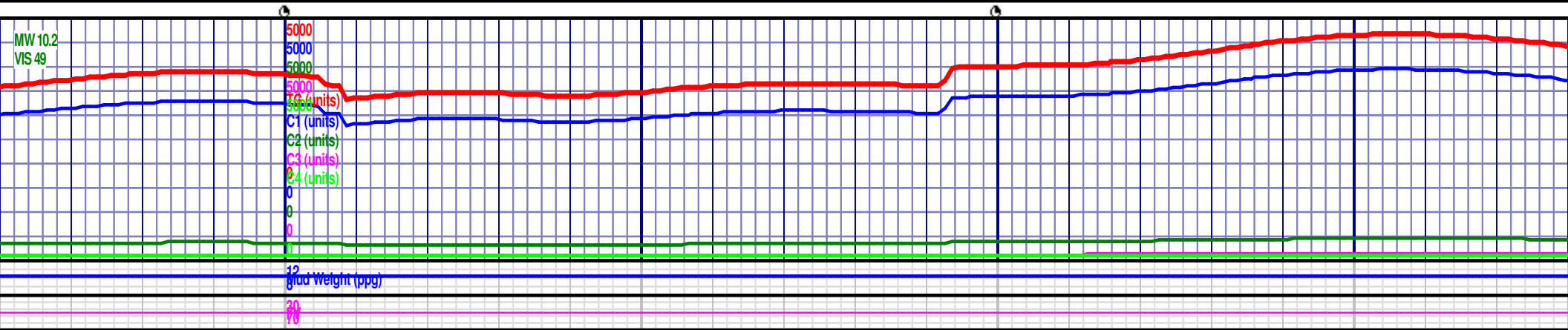
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INC 90.12 AZ 273.37  
VS 5639.26

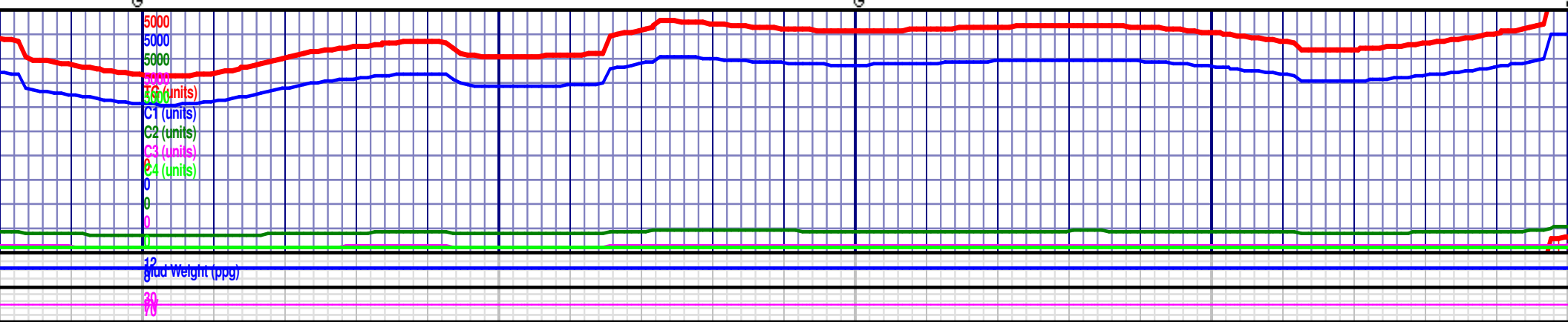
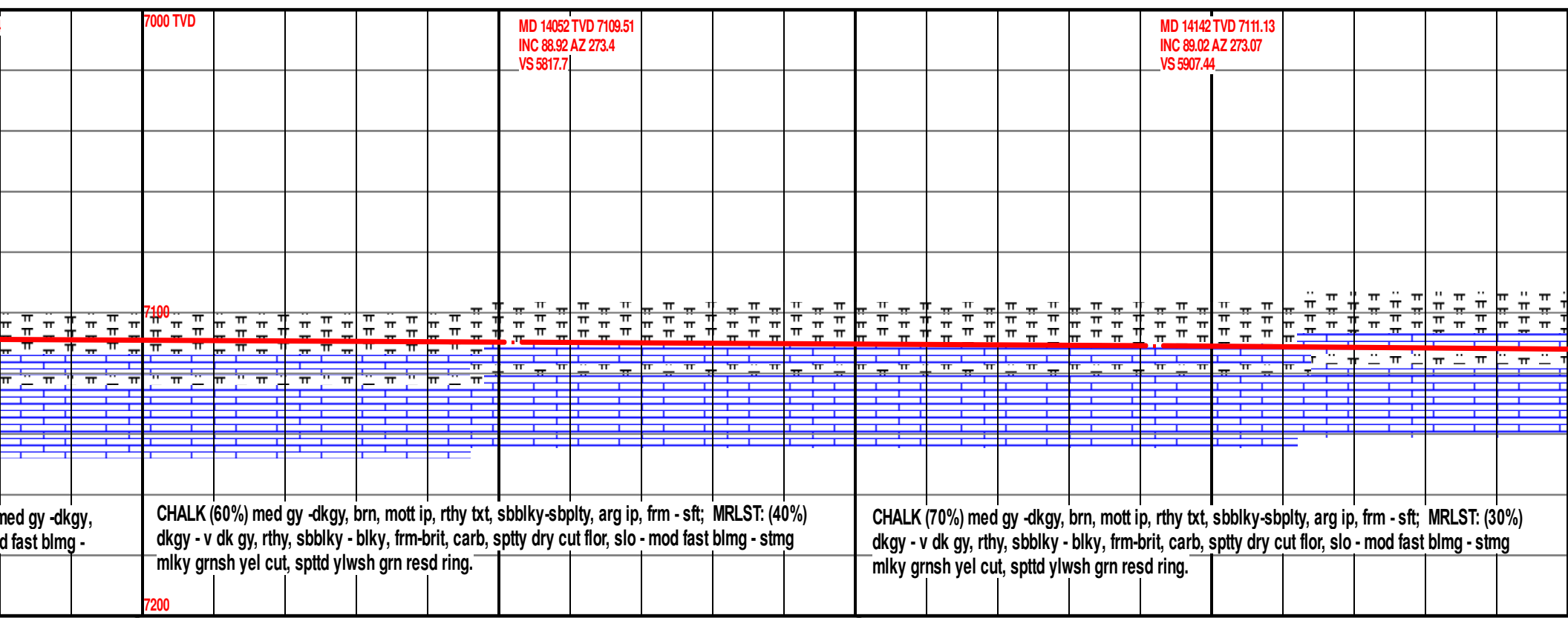
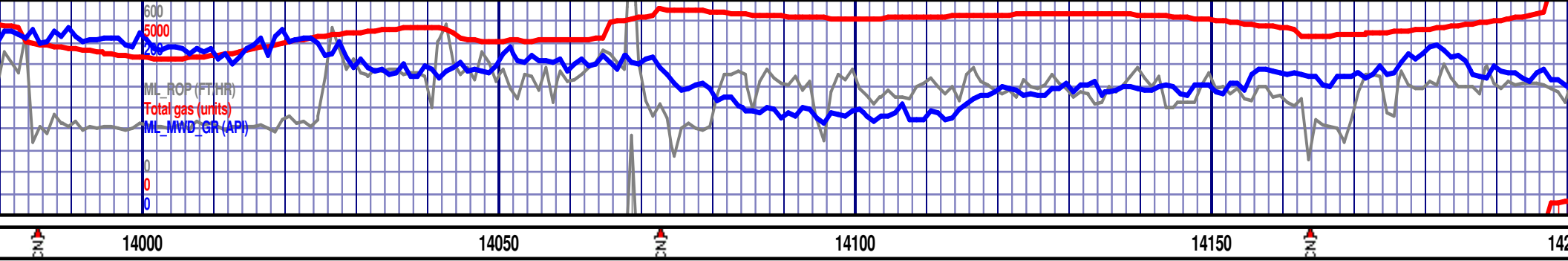
MD 13963 TVD 7108.74  
INC 90.09 AZ 273.78  
VS 5728.98

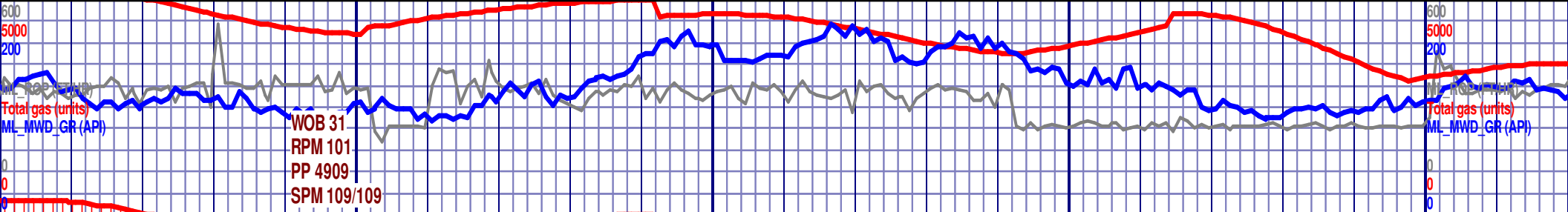


rb, CHALK (40%) med gy -dkgy, brn,  
flor, slo - mod fast blmg - stmg

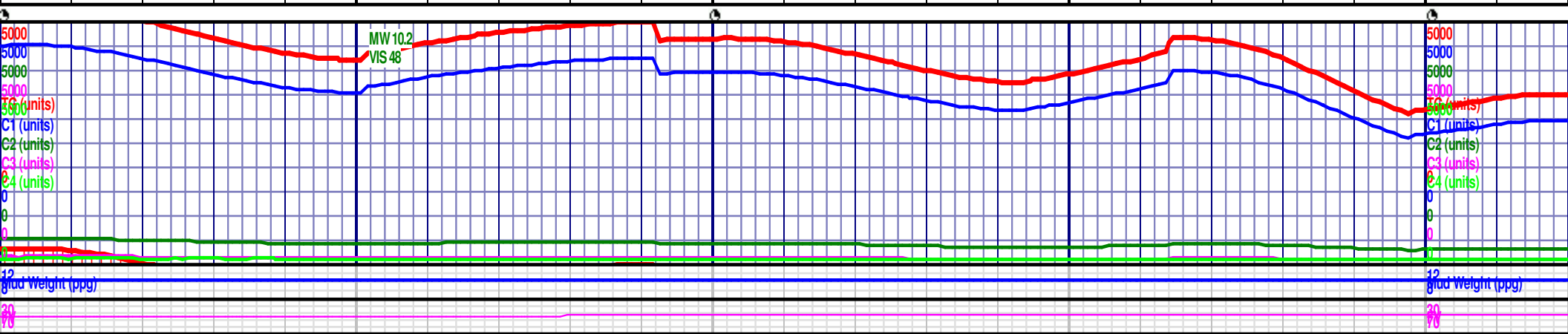
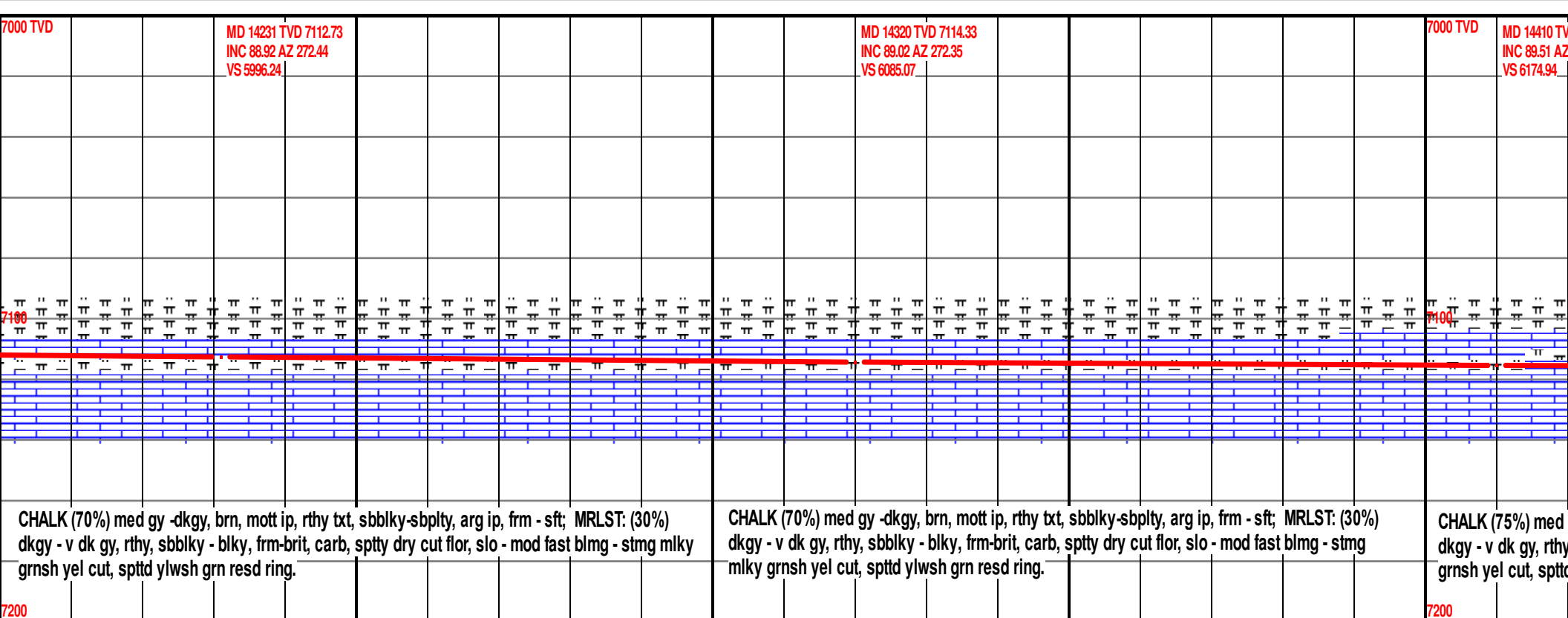
MRLST: (60%) dkgy - v dk gy, rthy, sblky - blk, frm-brit, carb, CHALK (40%) med gy -dkgy, brn, mott ip, rthy txt, sblky-sbply, arg ip, frm - sft; spty dry cut flor, slo - mod fast blmg - stmg milky grnsh yel cut, spttd ylwsh grn resd ring.

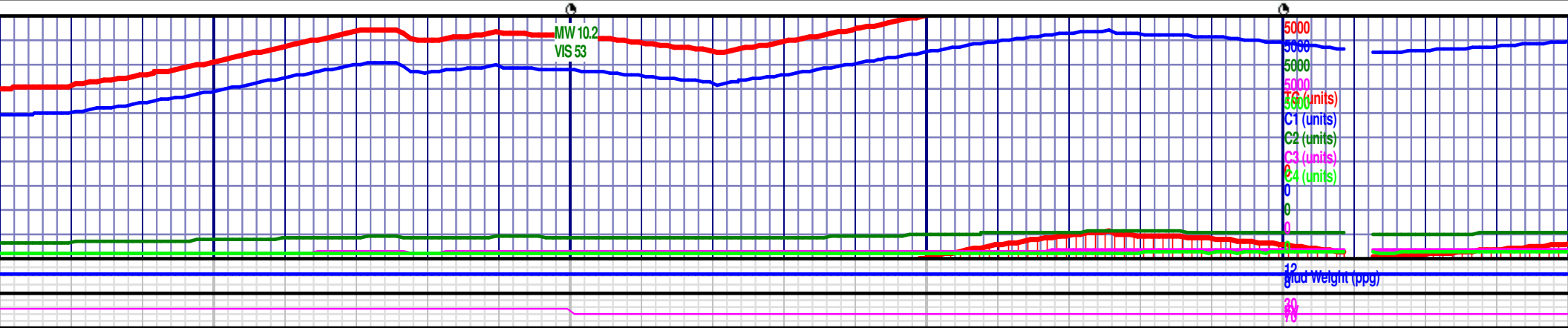
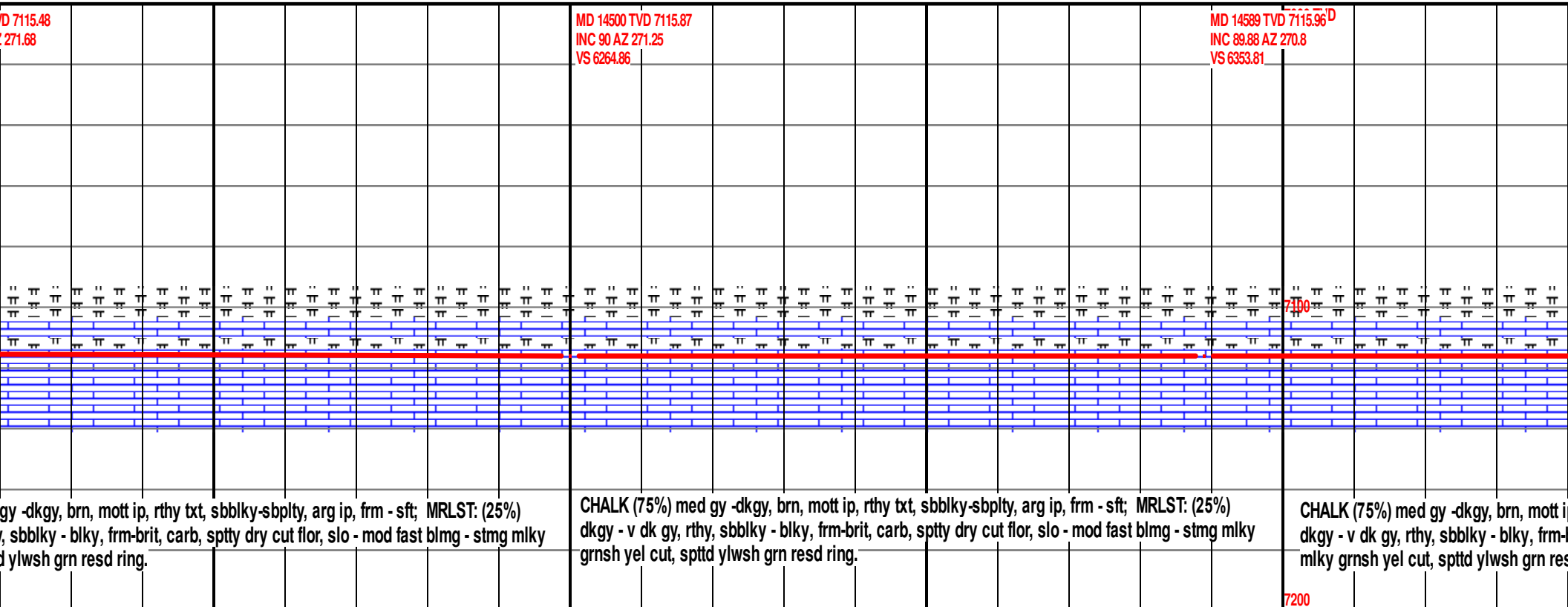
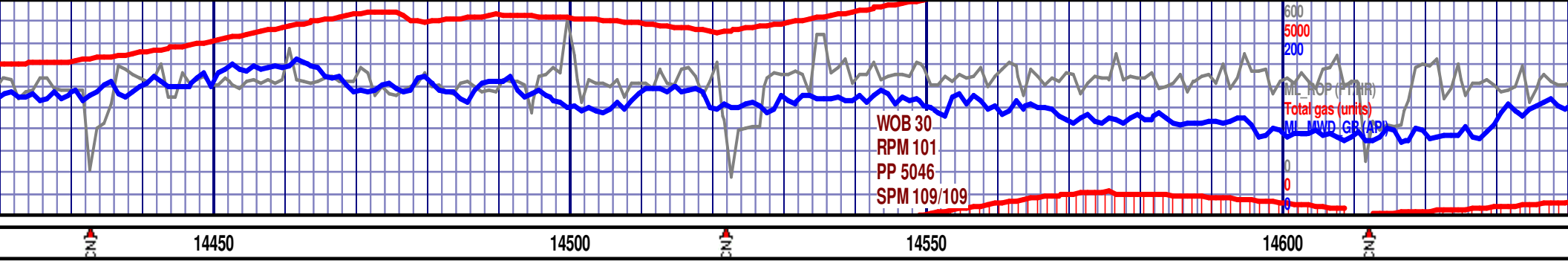




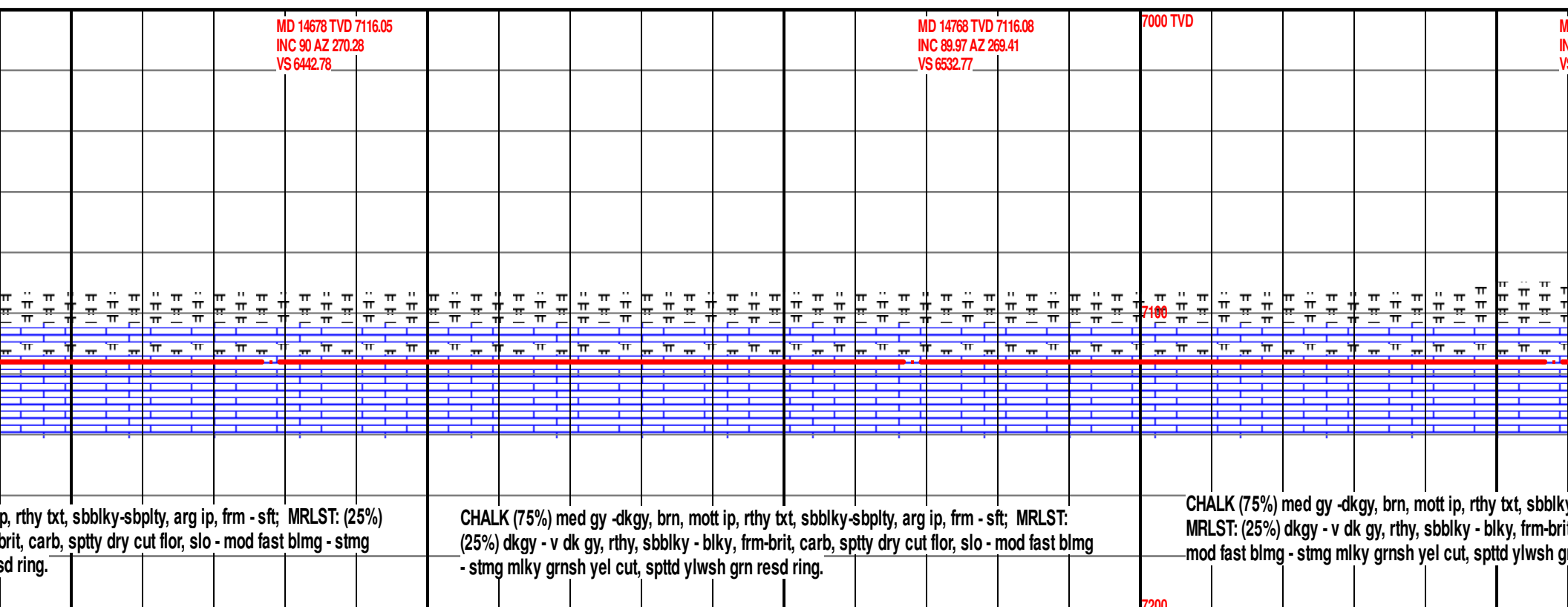


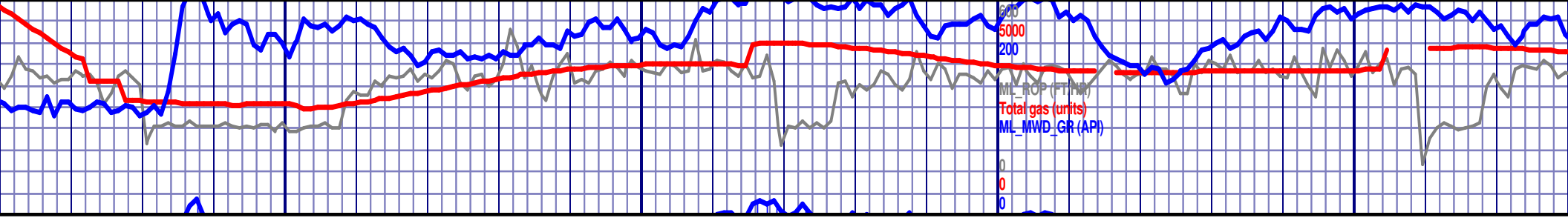
14200 14250 14300 14350 14400









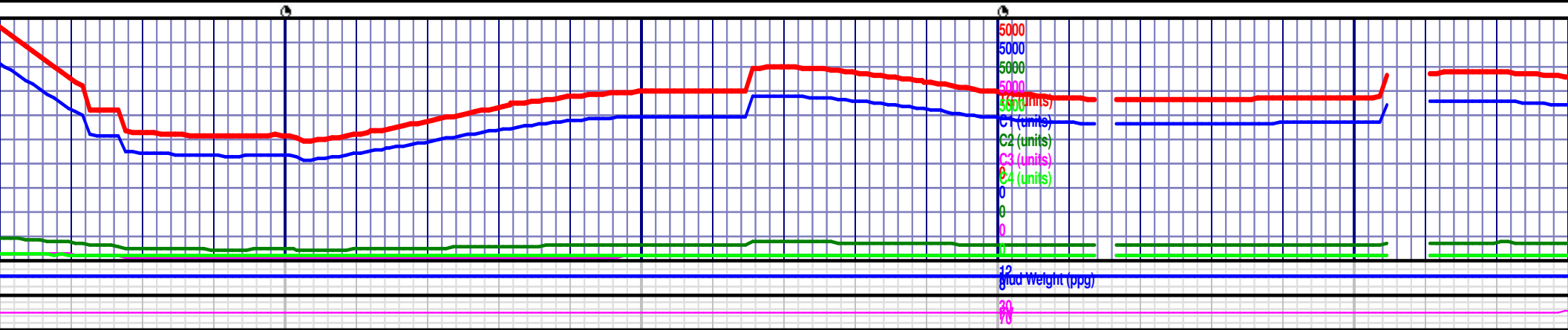
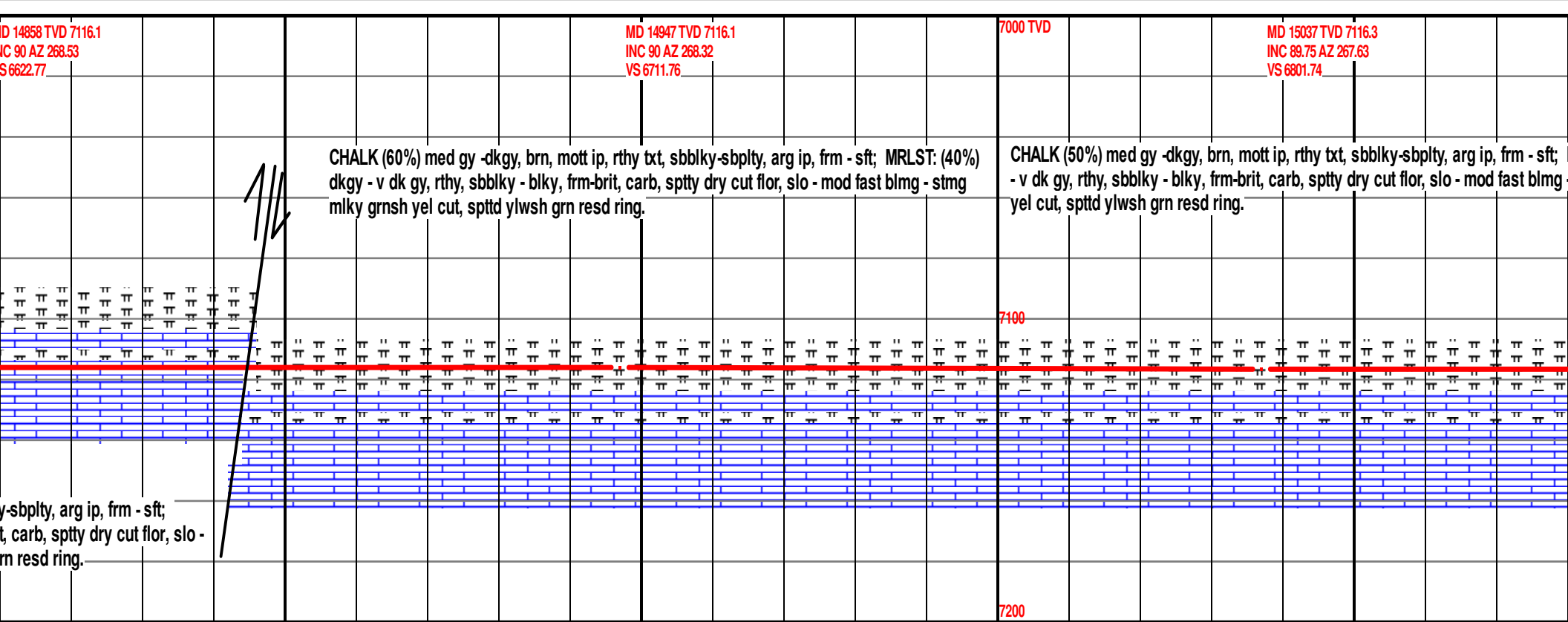


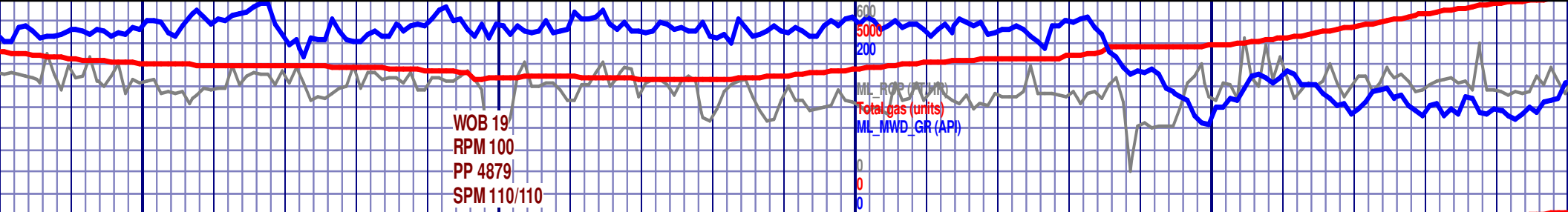
14858 TVD 7116.1  
INC 90 AZ 268.53  
S 6622.77

MD 14947 TVD 7116.1  
INC 90 AZ 268.32  
VS 6711.76

7000 TVD

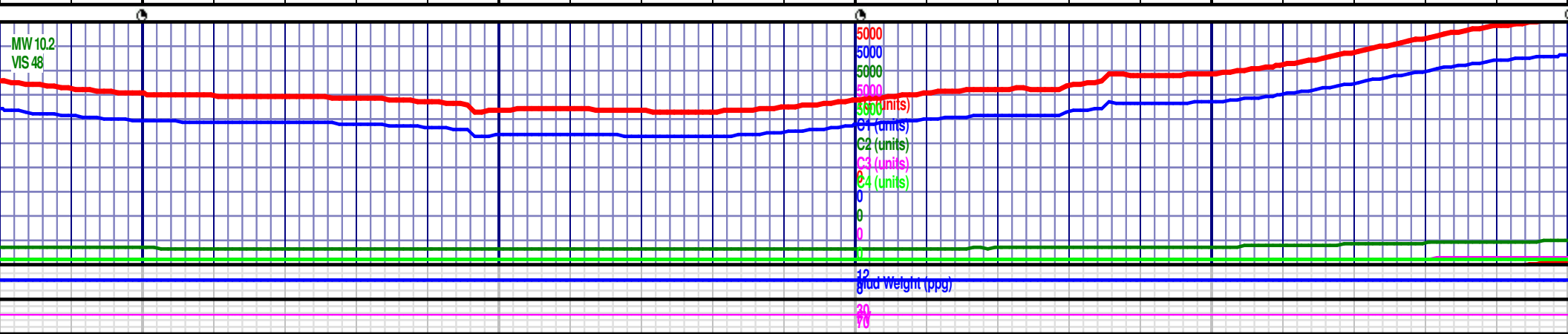
MD 15037 TVD 7116.3  
INC 89.75 AZ 267.63  
VS 6801.74

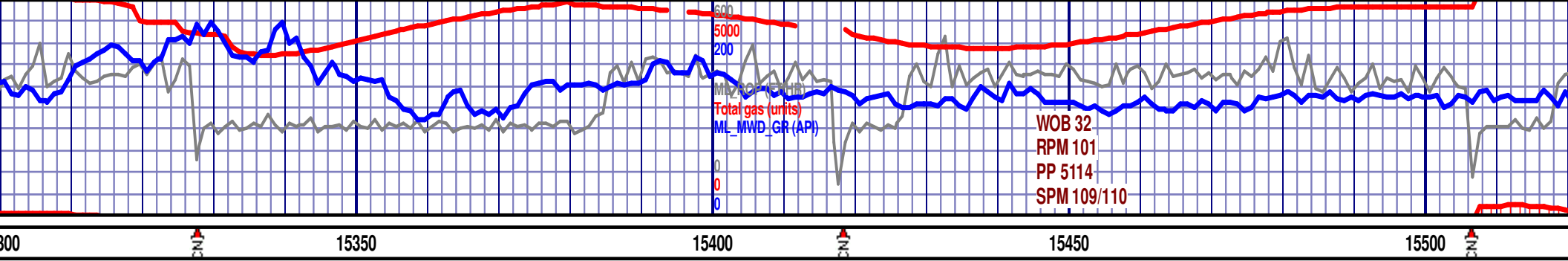




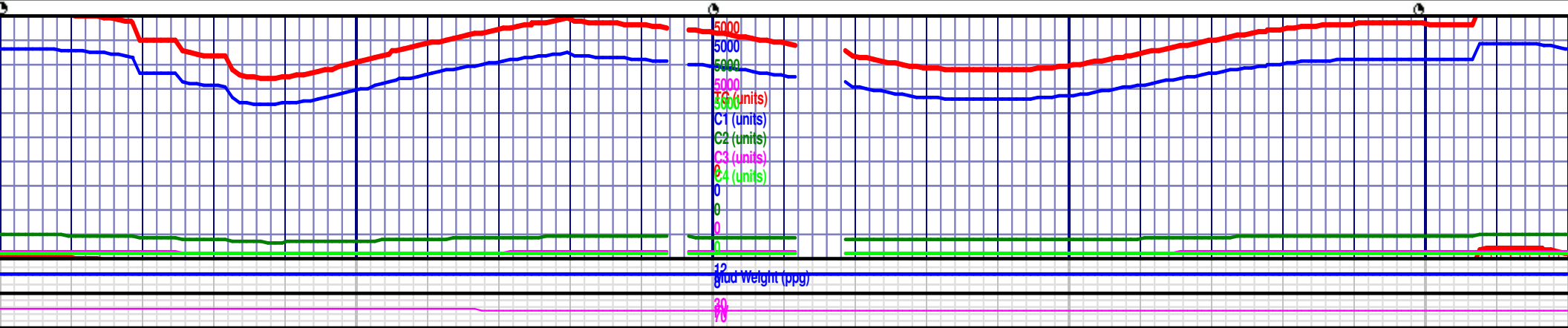
15100 15150 15200 15250 15300

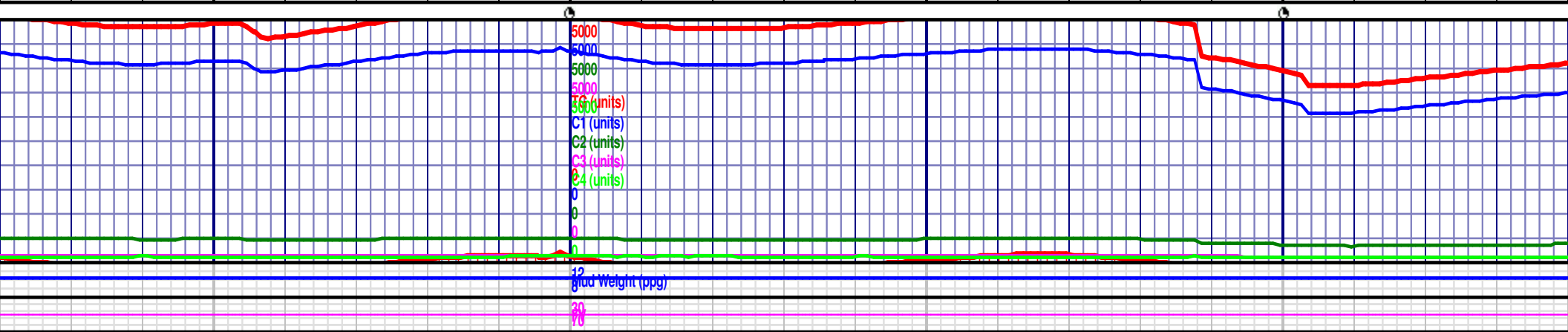
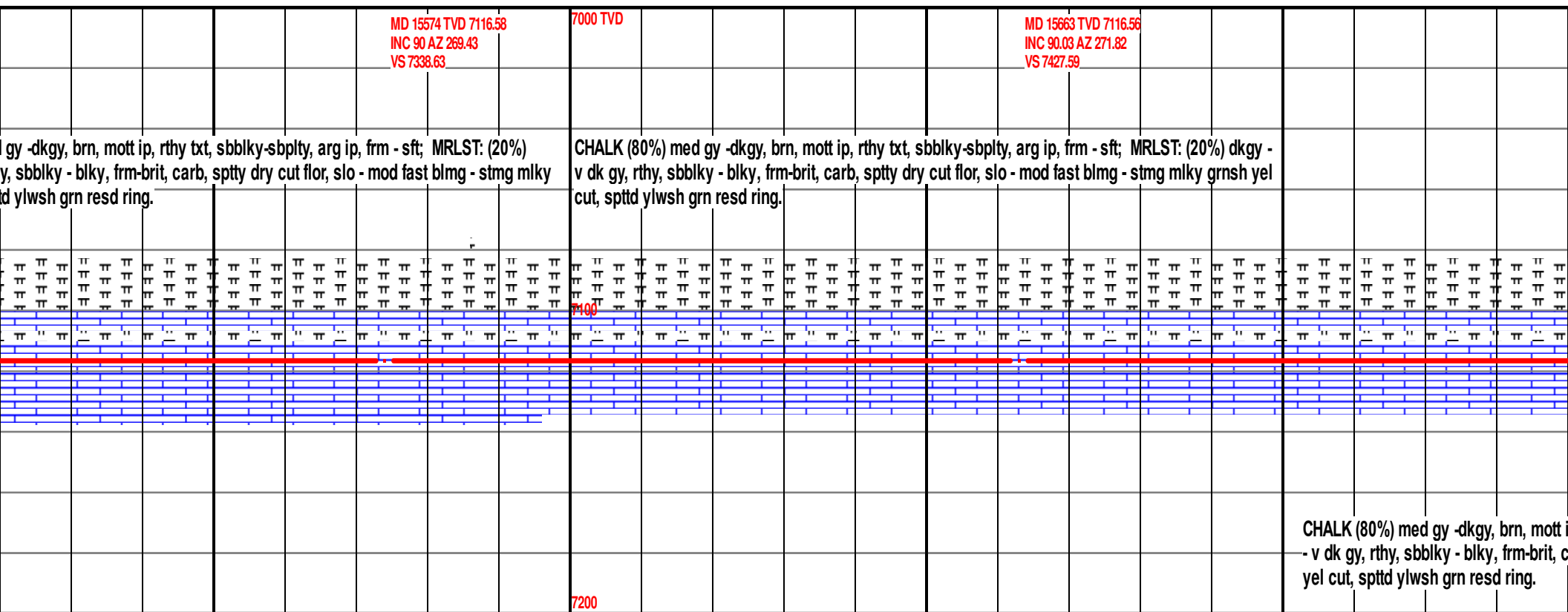
MD 15126 TVD 7116.54 INC 89.94 AZ 267.77 VS 6890.72										7000 TVD MD 15216 TVD 7116.58 INC 90 AZ 267.92 VS 6980.7									
MRLST: (50%) dkgy - stmg mlky grnsh										CHALK (70%) med gy -dkgy, brn, mott ip, rthy txt, sbblky-sbplty, arg ip, frm - sft; MRLST: (30%) dkgy - v dk gy, rthy, sbblky - blky, frm-brit, carb, sptty dry cut flor, slo - mod fast blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd ring.									
CHALK (60%) med gy -dkgy, brn, mott ip, rthy txt, sbblky-sbplty, arg ip, frm - sft; MRLST: (40%) dkgy - v dk gy, rthy, sbblky - blky, frm-brit, carb, sptty dry cut flor, slo - mod fast blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd ring.										CHALK (70%) med gy -dkgy, brn, mott ip, rthy txt, sbblky-sbplty, arg ip, frm - sft; MRLST: (30%) dkgy - v dk gy, rthy, sbblky - blky, frm-brit, carb, sptty dry cut flor, slo - mod fast blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd ring.									
7100										7100									
7200										7200									

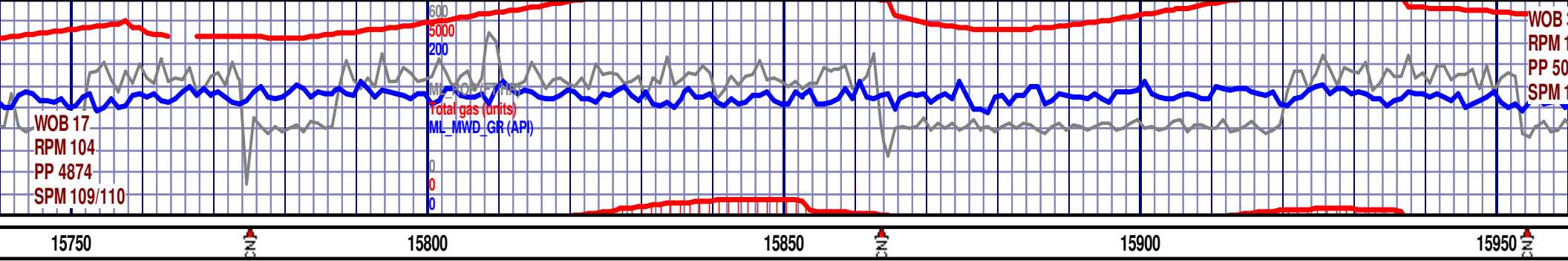




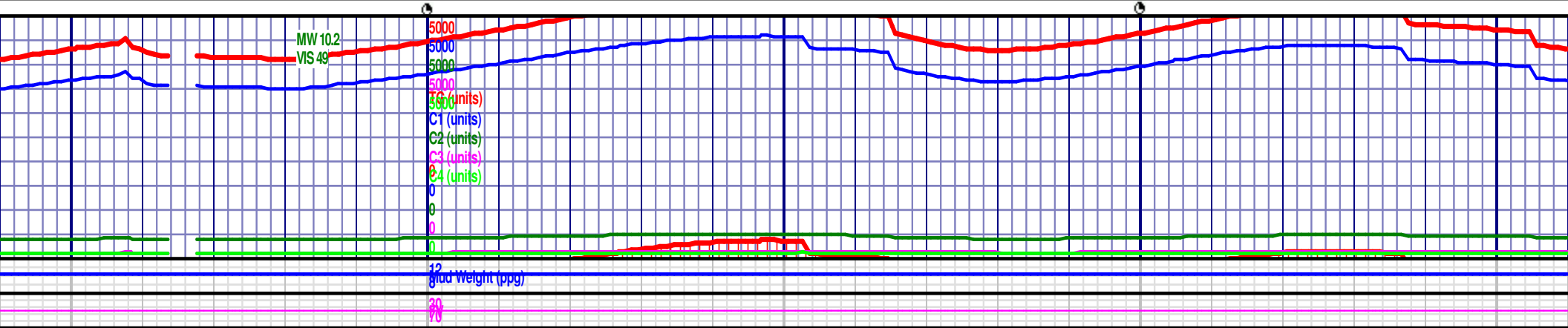
<p>MD 15305 TVD 7116.72 INC 89.82 AZ 267.35 VS 7069.67</p>	<p>MD 15394 TVD 7116.84 INC 90.03 AZ 267.68 VS 7158.64</p>	<p>MD 15484 TVD 7116.7 INC 90.15 AZ 268.73 VS 7248.63</p>
<p>CHALK (70%) med gy -dkgy, brn, mott ip, rthy txt, sbblky-sbplty, arg ip, frm - sft; MRLST: (30%) dkgy - v dk gy, rthy, sbblky - blky, frm-brit, carb, sptty dry cut flor, slo - mod fast blmg - stmg 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, frm - sft; MRLST: (20%) dkgy - v dk gy, rthy, sbblky - blky, frm-brit, carb, sptty dry cut flor, slo - mod fast blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd ring.</p>	<p>CHALK (80%) med dkgy - v dk gy, rth grnsh yel cut, spt</p>
<p>7100</p>	<p>7200</p>	

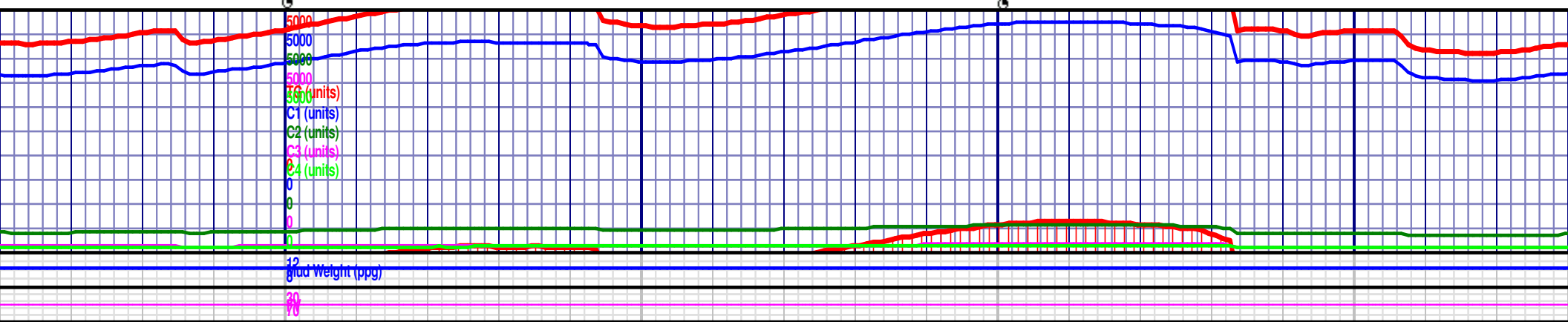
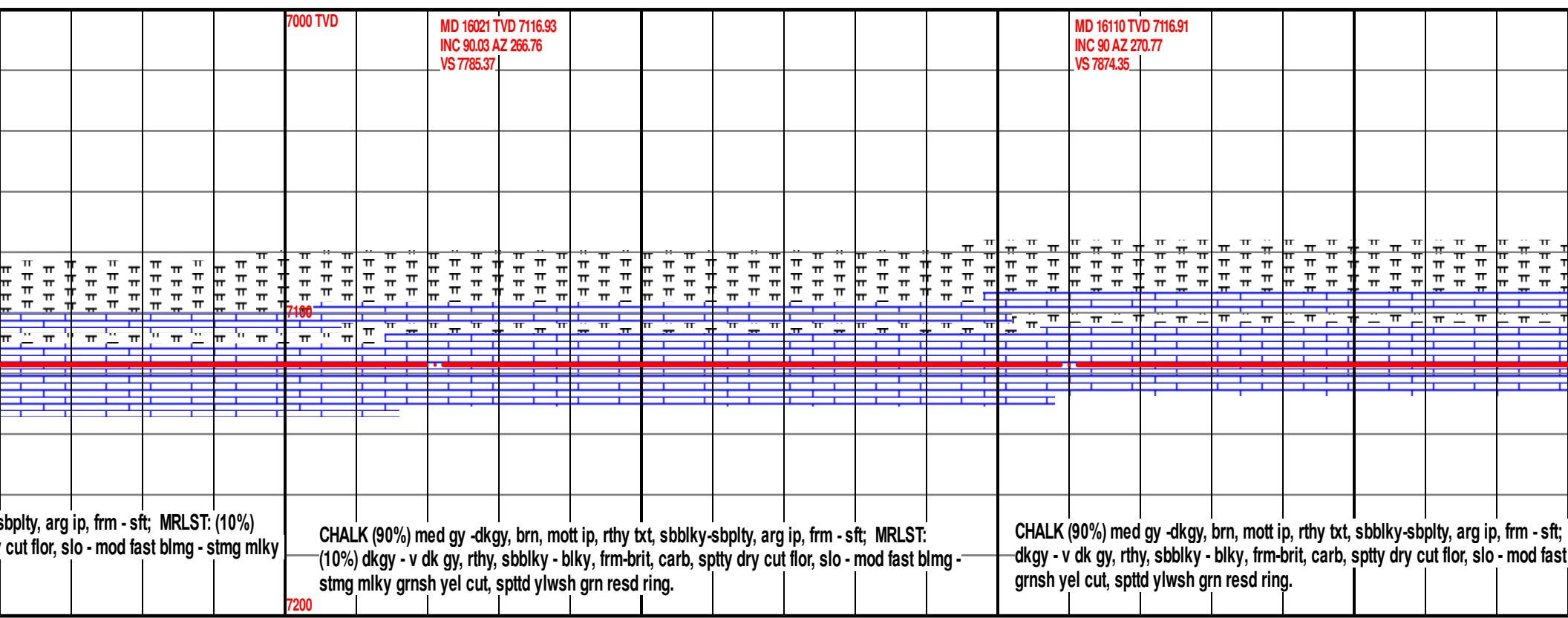
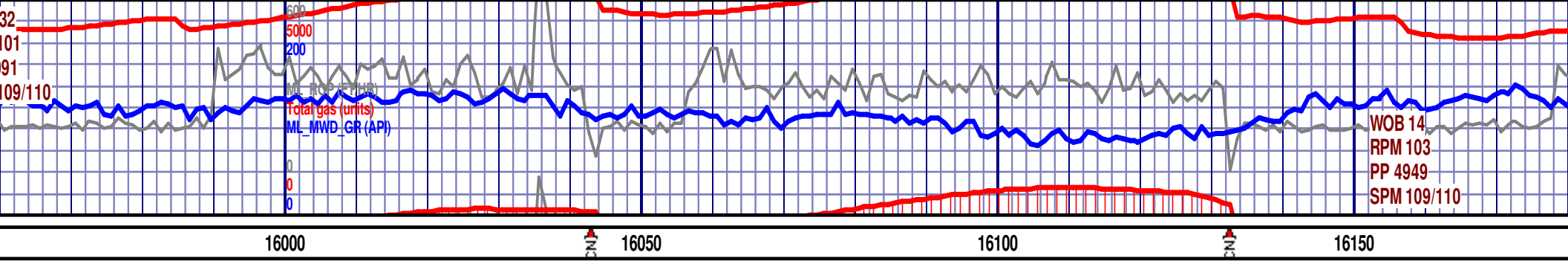


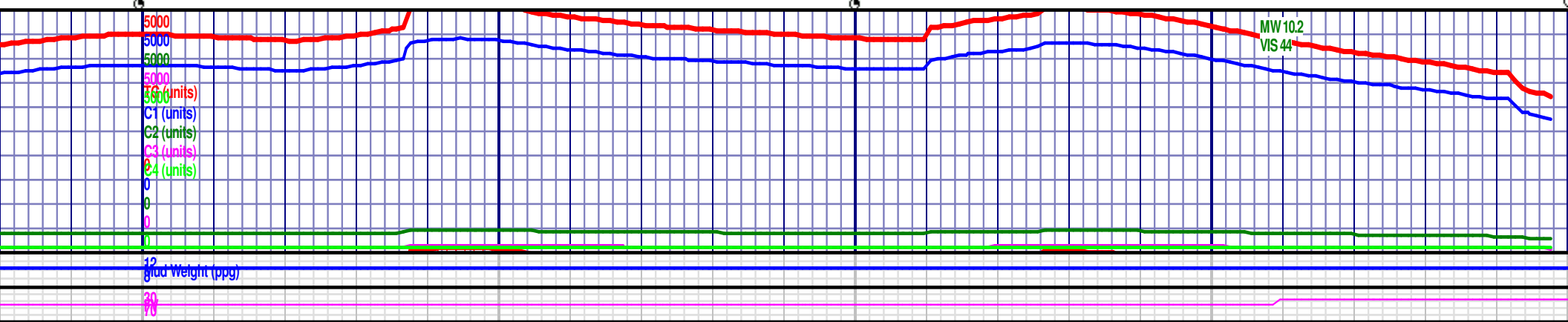
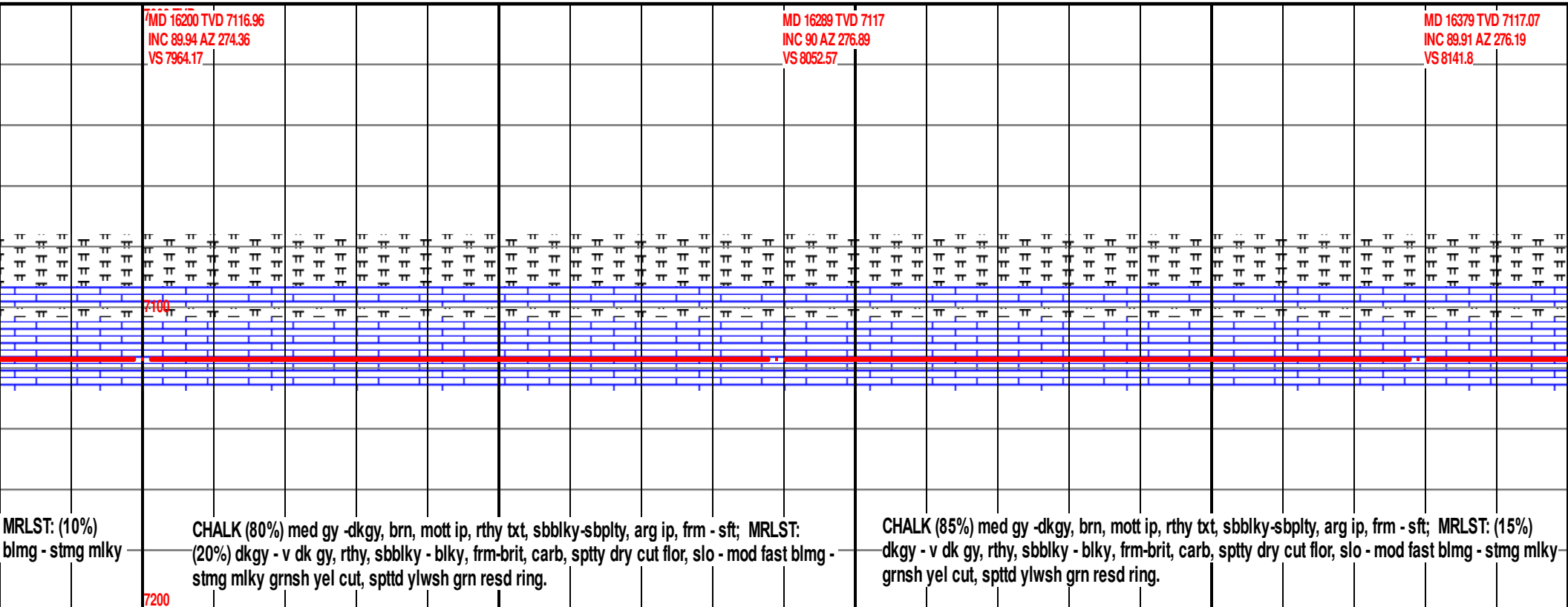
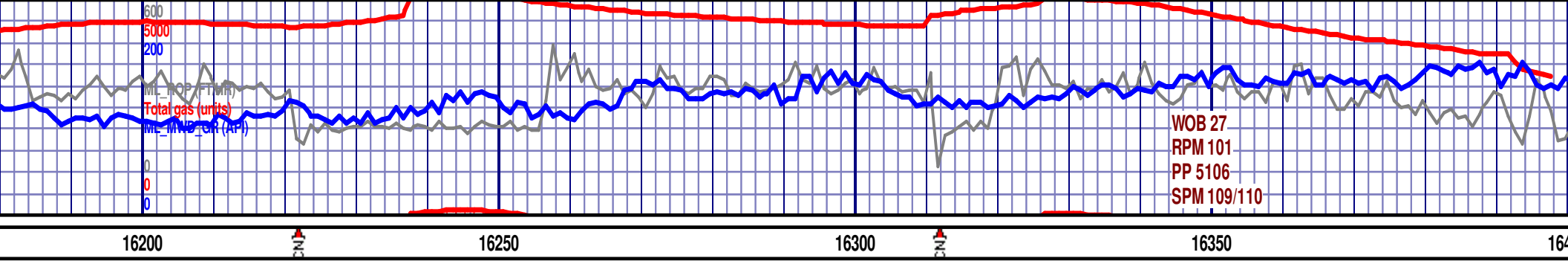




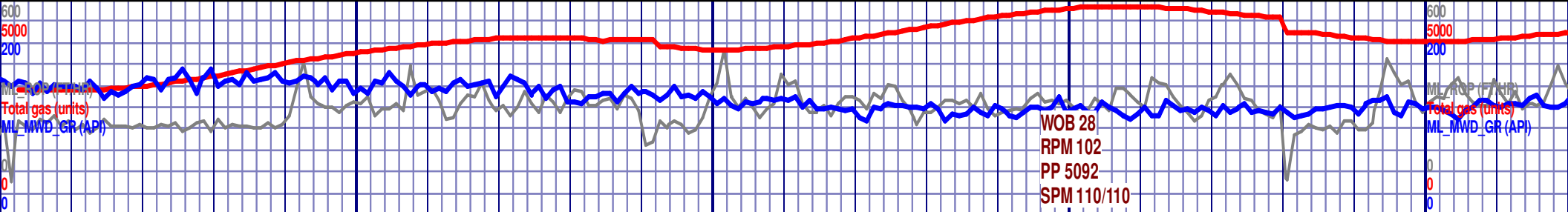
MD 15753 TVD 7116.63 INC 89.88 AZ 269.59 VS 7517.54										7000 TVD										MD 15842 TVD 7116.77 INC 89.94 AZ 267.13 VS 7606.53										MD 15931 TVD 7116.89 INC 89.91 AZ 266.32 VS 7695.46									
ip, rthy txt, sbblky-sbplty, arg ip, frm - sft; MRLST: (20%) dkgy carb, spitty dry cut flor, slo - mod fast blmg - stmg mlky grnsh										CHALK (85%) med gy -dkgy, brn, mott ip, rthy txt, sbblky-sbplty, arg ip, frm - sft; MRLST: (15%) dkgy - v dk gy, rthy, sbblky - blk, frm-brit, carb, spitty dry cut flor, slo - mod fast blmg - stmg mlky grnsh yel cut, spitd ylwsh grn resd ring.										CHALK (90%) med gy -dkgy, brn, mott ip, rthy txt, sbblky-s dkgy - v dk gy, rthy, sbblky - blk, frm-brit, carb, spitty dry grnsh yel cut, spitd ylwsh grn resd ring.																			



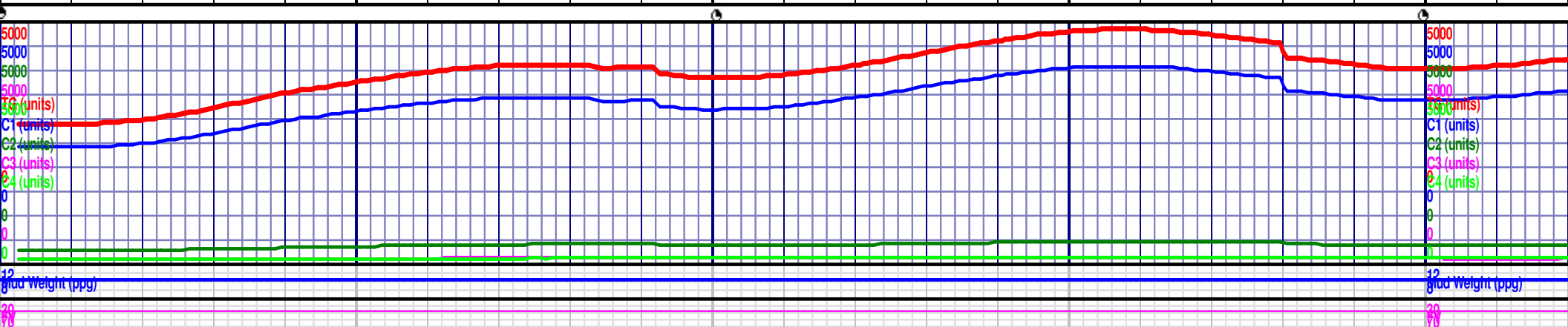
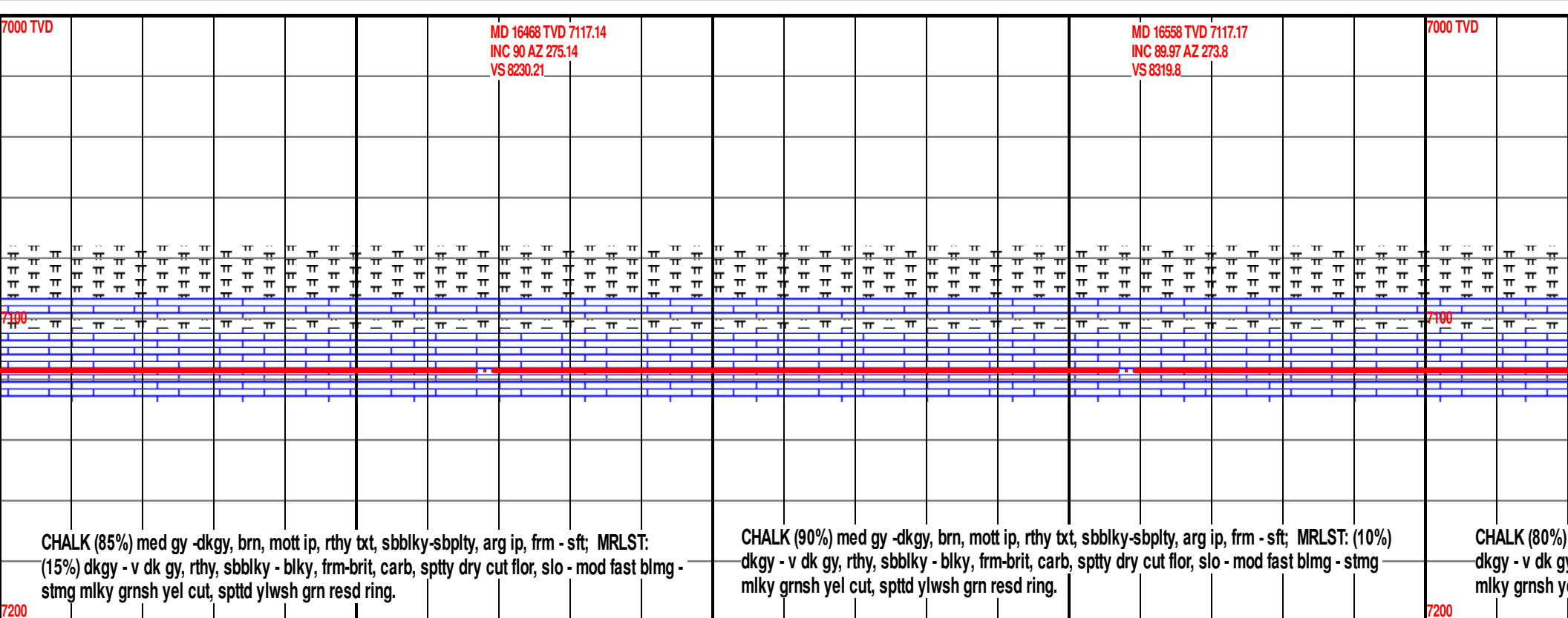




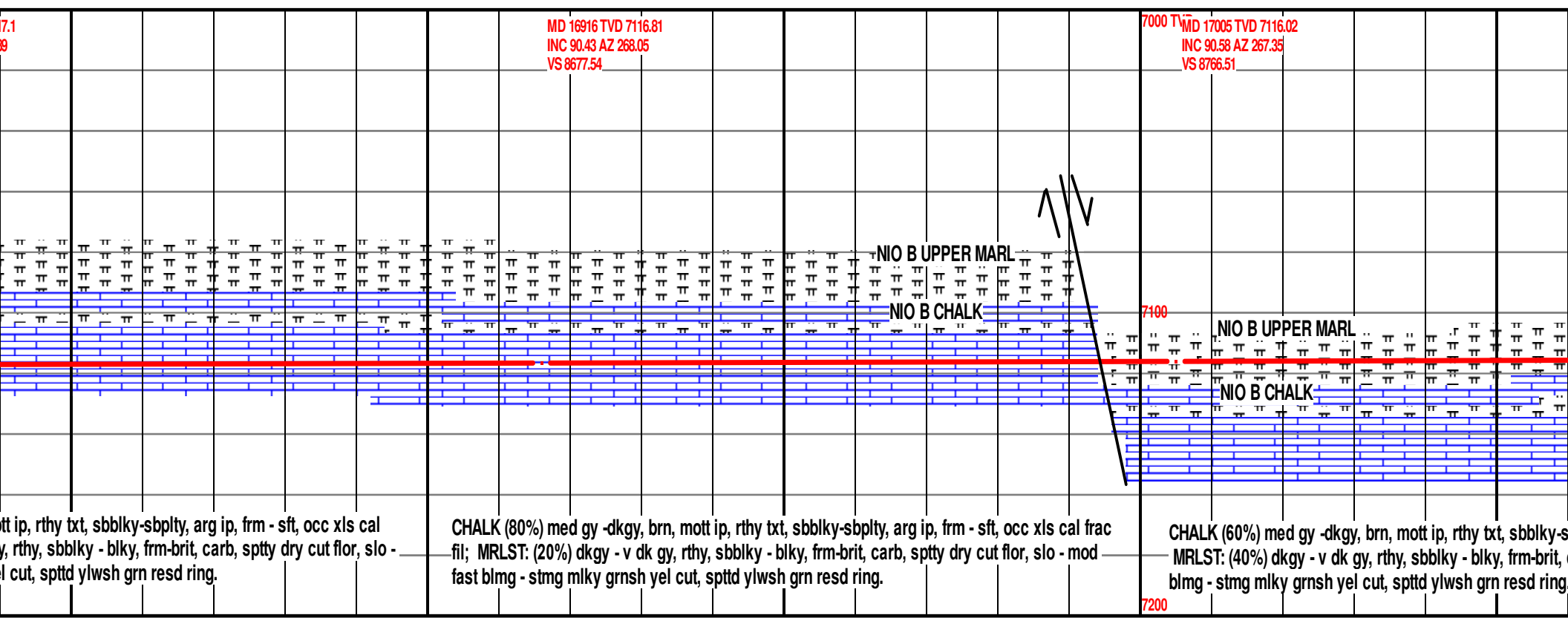


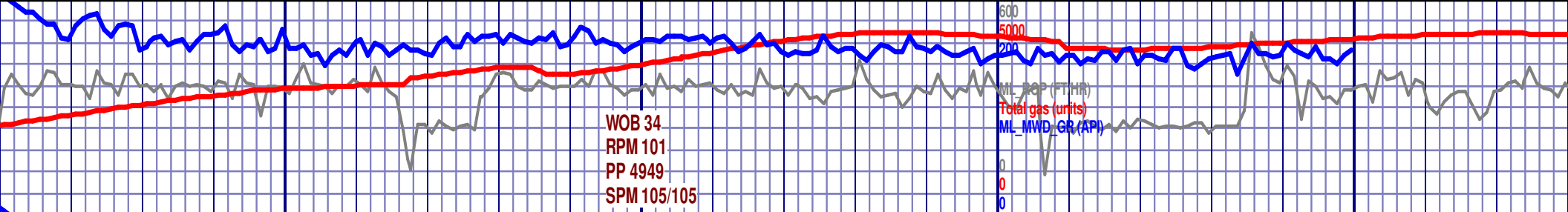


16400 16450 16500 16550 16600









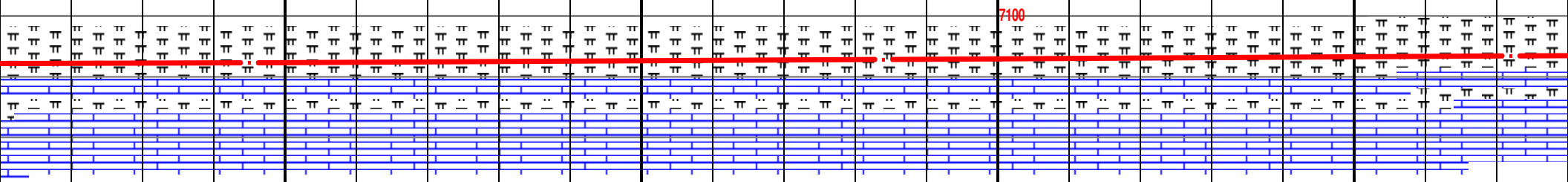
17100 17150 17200 17250

MD 17095 TVD 7115.18  
INC 90.49 AZ 267.6  
VS 8856.47

MD 17184 TVD 7114.32  
INC 90.62 AZ 266.78  
VS 8945.42

MD 17272  
INC 90.55  
VS 9033.3

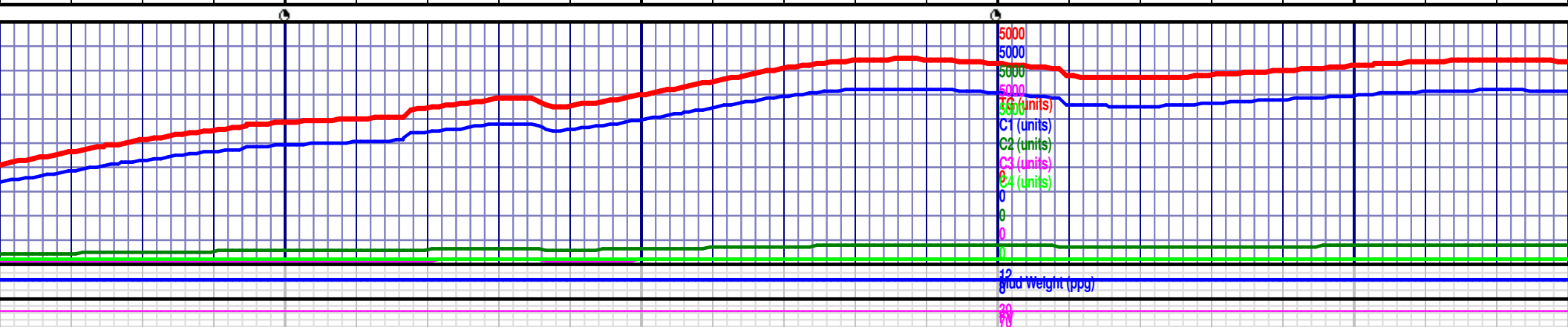
BIT #3, 8.5", HCC, AT  
Steerable Directional  
10/23/17 @ 17,332' M

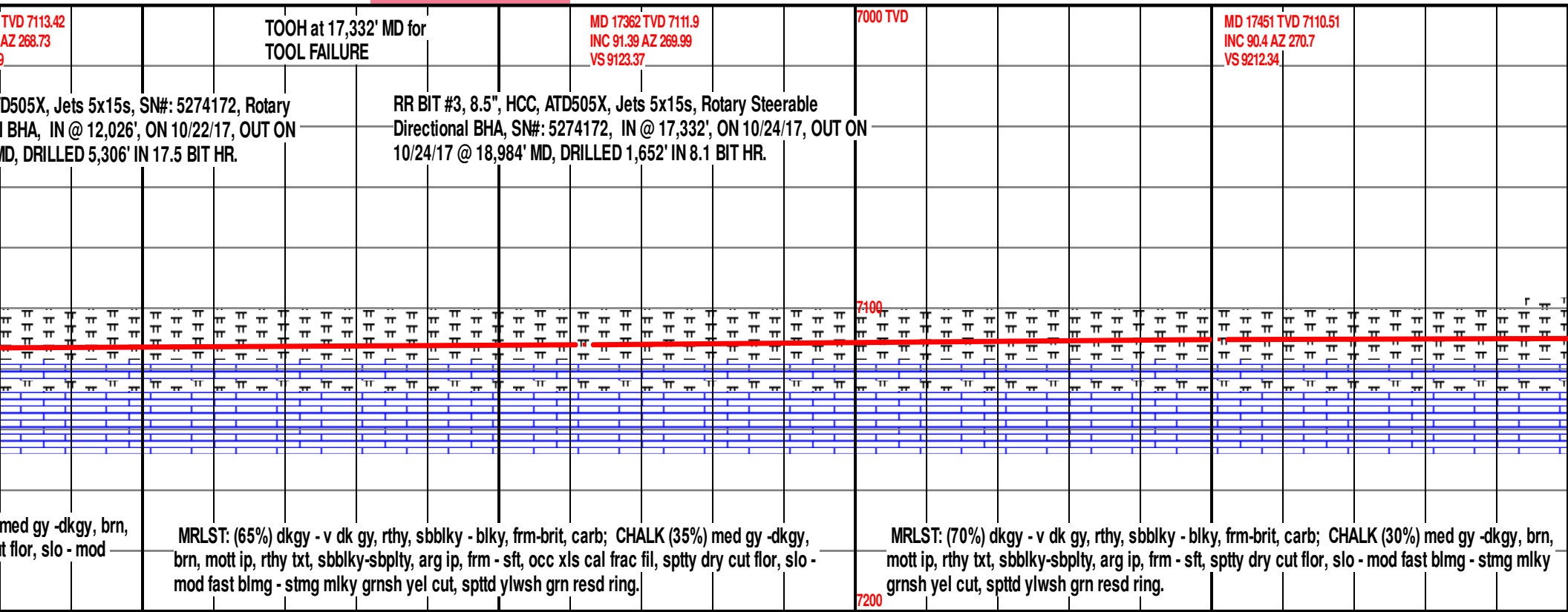


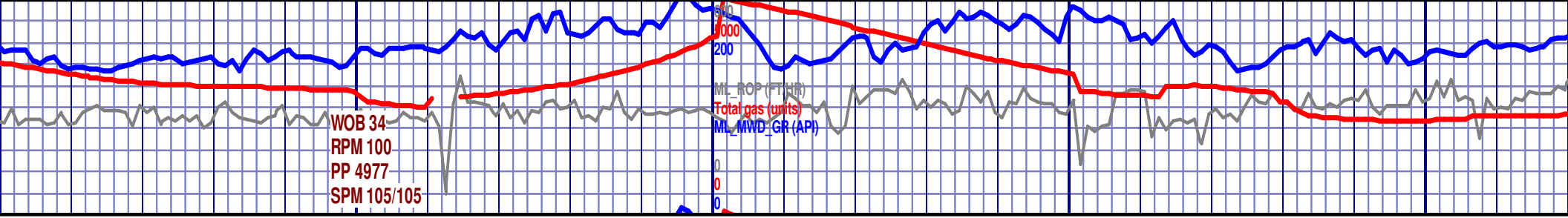
bplty, arg ip, frm - sft, occ xls cal frac fil;  
carb, sptty dry cut flor, slo - mod fast

MRLST: (60%) dkgy - v dk gy, rthy, sbblky - blk, frm-brit, carb; CHALK (40%) med gy -dkgy, brn,  
mott ip, rthy txt, sbblky-sbplty, arg ip, frm - sft, occ xls cal frac fil, sptty dry cut flor, slo - mod  
fast blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd ring.

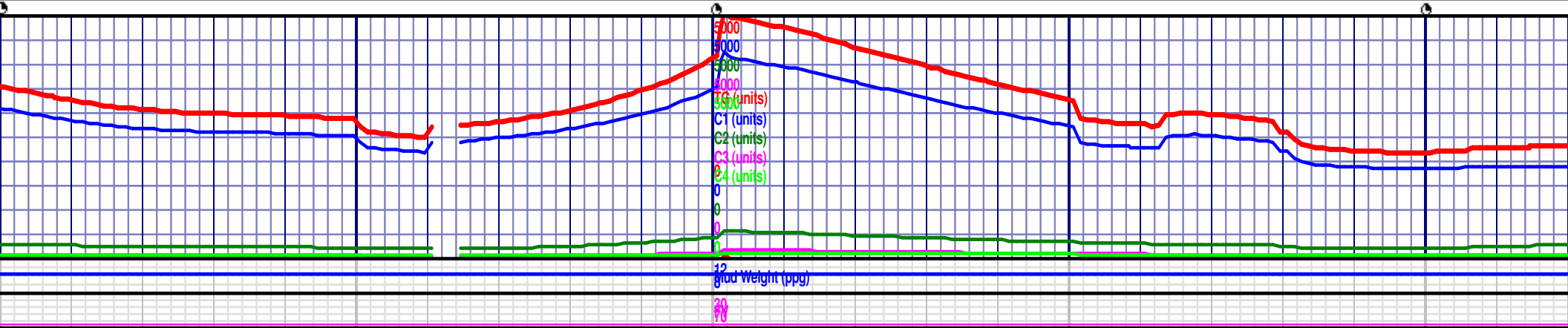
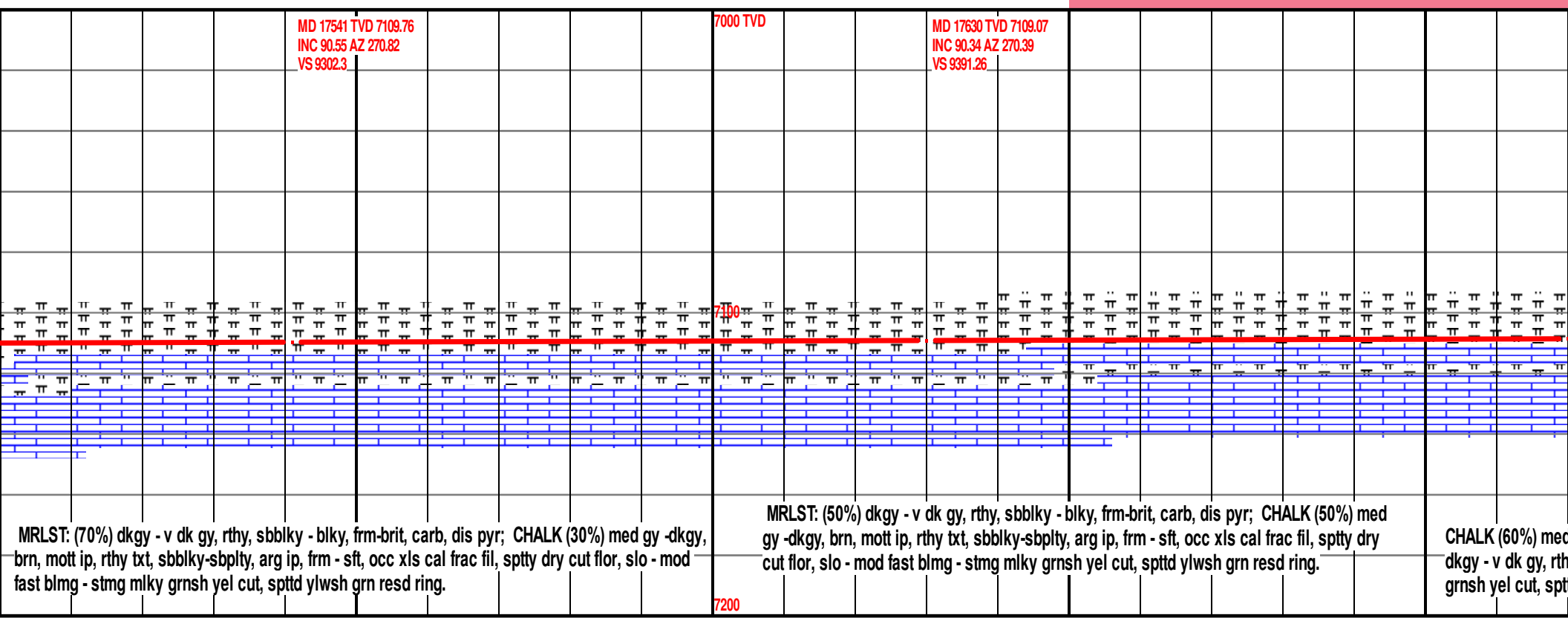
MRLST: (70%) dkgy - v dk gy, rthy, sbblky - blk, frm-brit, carb; CHALK (30%)  
mott ip, rthy txt, sbblky-sbplty, arg ip, frm - sft, occ xls cal frac fil, sptty dry cut  
fast blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd ring.

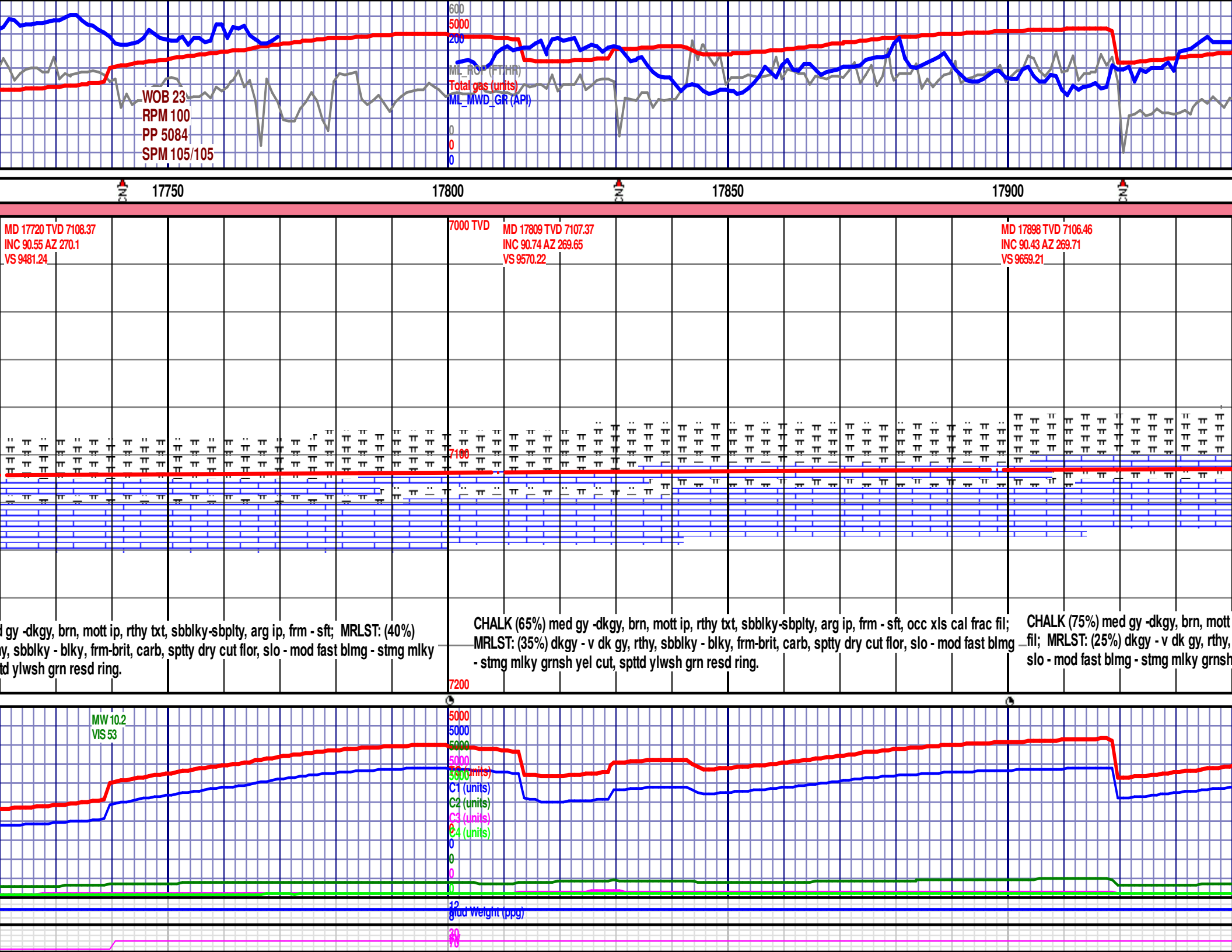


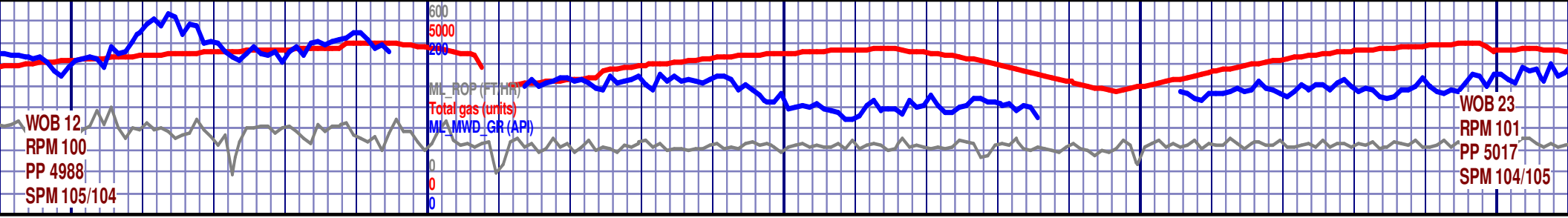




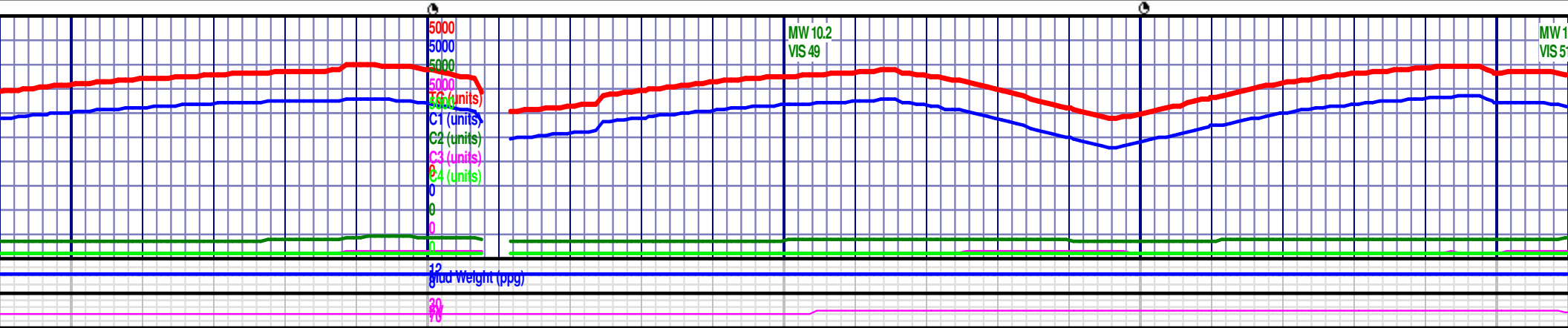
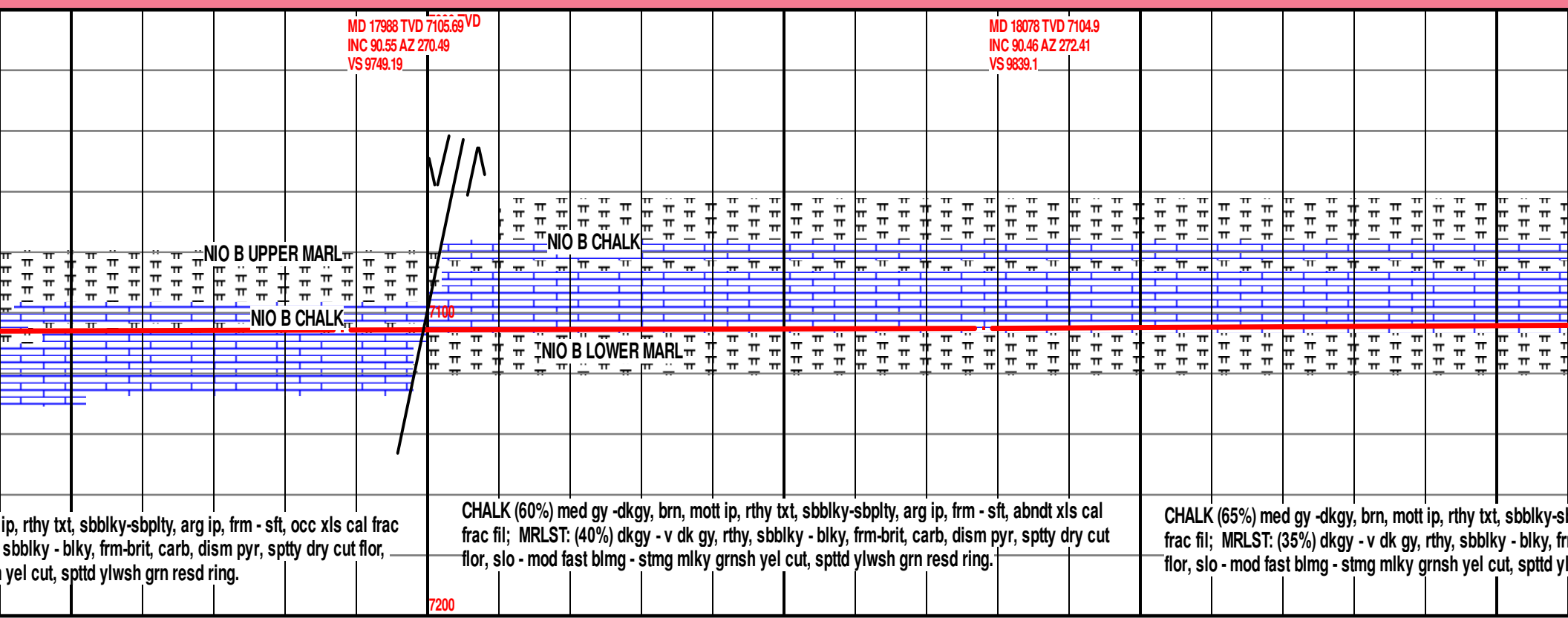
5000 17500 17600 17650 17700



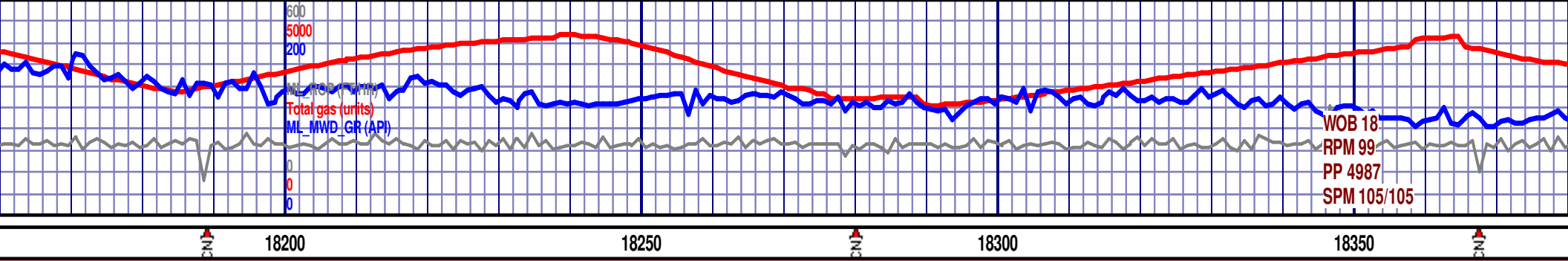




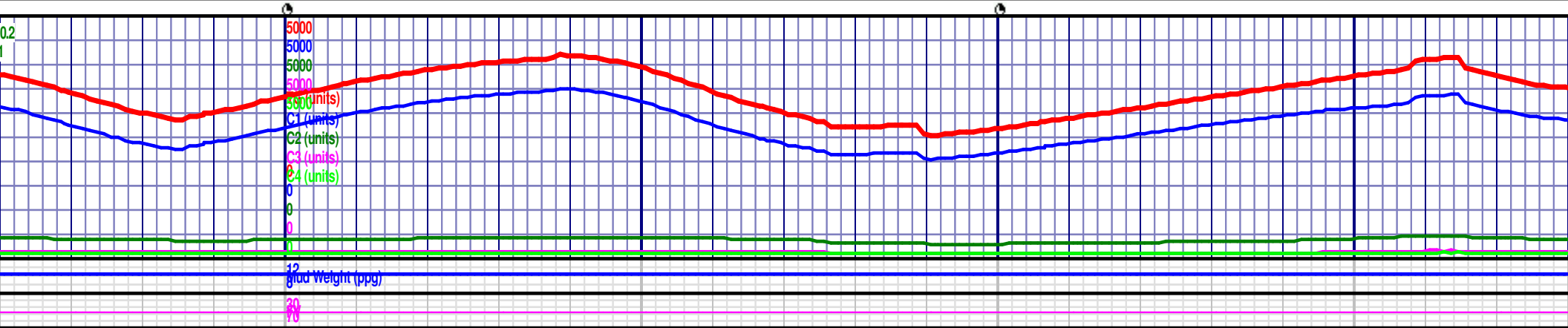
17950 18000 18050 18100 18150

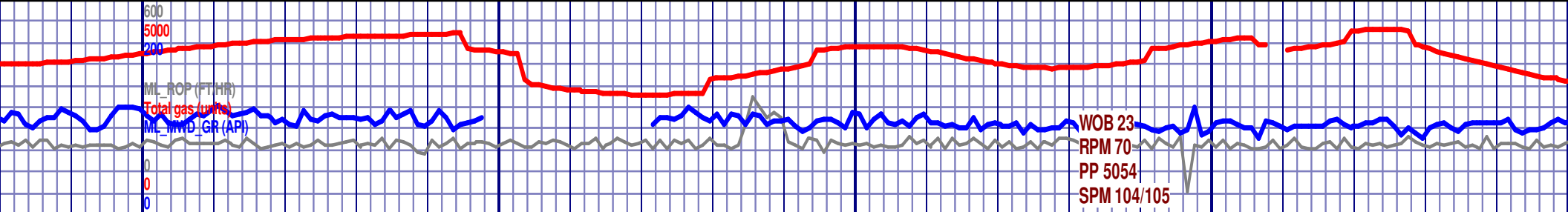






<p>MD 18167 TVD 7104.2 INC 90.43 AZ 272.26 VS 9927.95</p> <p>7000 TVD</p> <p>7100</p> <p>7200</p> <p>CHALK (70%) med gy -dkgy, brn, mott ip, rthy txt, sbblky-sbplty, arg ip, frm - sft, occ xls cal frac fil; MRLST: (30%) dkgy - v dk gy, rthy, sbblky - blk, frm-brit, carb, dism pyr, sptty dry cut flor, slo - mod fast blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd ring.</p>	<p>MD 18257 TVD 7103.53 INC 90.43 AZ 270.83 VS 10017.86</p> <p>CHALK (80%) med gy -dkgy, brn, mott ip, rthy txt, sbblky-sbplty, arg ip, frm - sft, occ xls cal frac fil; MRLST: (20%) dkgy - v dk gy, rthy, sbblky - blk, frm-brit, carb, dism pyr, sptty dry cut flor, fast blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd ring.</p>	<p>MD 18346 TVD 7102.95 INC 90.31 AZ 269.9 VS 10106.84</p> <p>CHALK (80%) med gy -dkgy, brn, mott ip, rthy txt, sbblky-sbplty, arg ip, frm - sft, occ xls cal frac fil; MRLST: (20%) dkgy - v dk gy, rthy, sbblky - blk, frm-brit, carb, dism pyr, sptty dry cut flor, fast blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd ring.</p>
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18400

18450

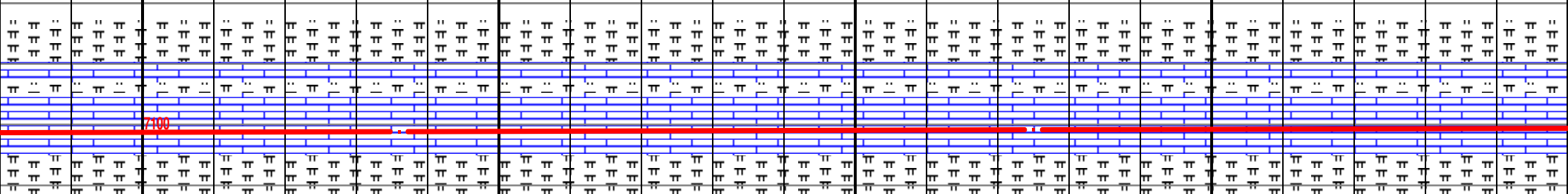
18500

18550

7000 TVD

MD 18436 TVD 7102.33  
INC 90.49 AZ 268.89  
VS 10196.83

MD 18525 TVD 7101.68  
INC 90.34 AZ 268.39  
VS 10285.83

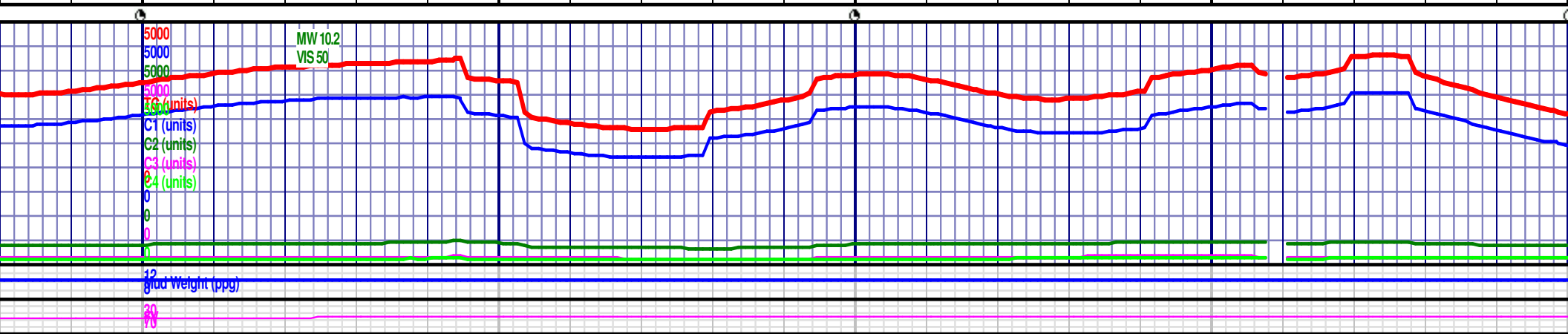


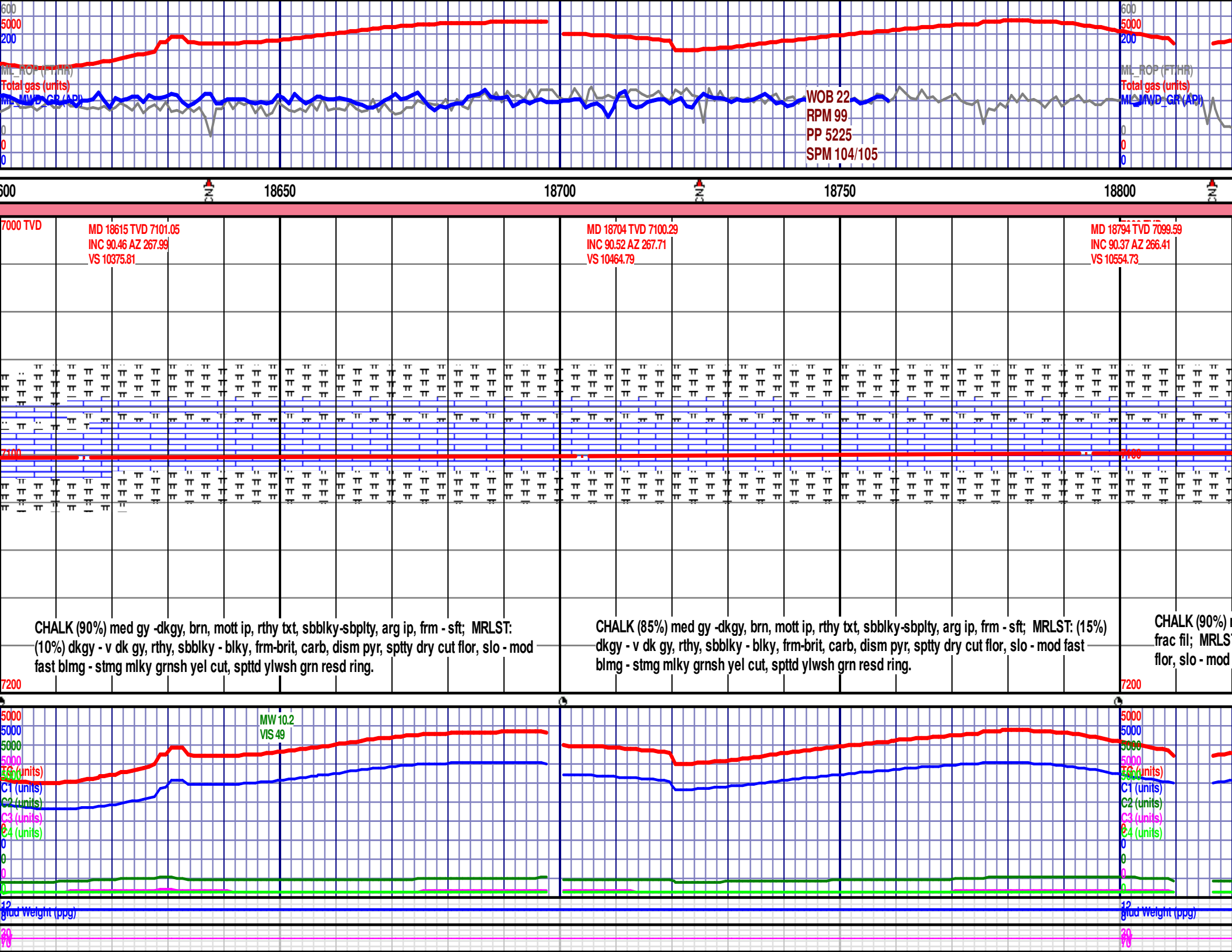
t; MRLST:  
flor, slo - mod

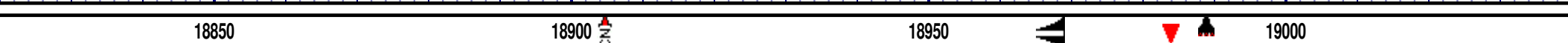
CHALK (85%) med gy -dkgy, brn, mott ip, rthy txt, sbblky-sbplty, arg ip, frm - sft; MRLST: (15%)  
dkgy - v dk gy, rthy, sbblky - blk, frm-brit, carb, dism pyr, sppty dry cut flor, slo - mod fast  
blmg - stmg milky grnsh yel cut, spptd ylwsh grn resd ring.

CHALK (85%) med gy -dkgy, brn, mott ip, rthy txt, sbblky-sbplty, arg ip, frm - sft; MRLST: (15%)  
dkgy - v dk gy, rthy, sbblky - blk, frm-brit, carb, dism pyr, sppty dry cut flor, slo - mod fast blmg -  
stmg milky grnsh yel cut, spptd ylwsh grn resd ring.

7200







MD 18984 TVD 7098.  
INC 90.52 AZ 266.42  
VS 10744.59

RR BIT #3, 8.5", HCC, ATD505X, Jets 5x15s, Rotary Steerable  
Directional BHA, SN#: 5274172, IN @ 17,332', ON 10/24/17, OUT  
ON 10/24/17 @ 18,984' MD, DRILLED 1.652' IN 8.1 BIT HR.

## Formation

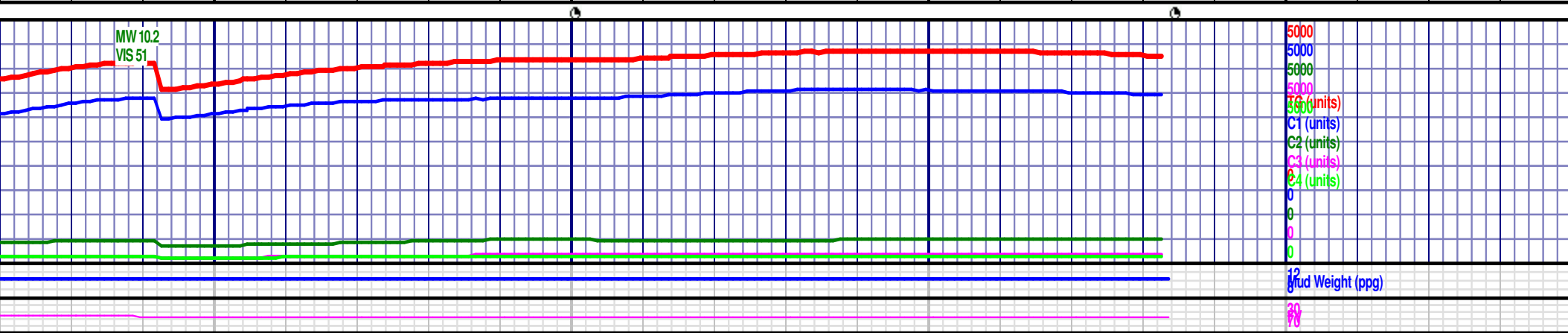
Sharon Springs  
Niobrara A Chalk  
Niobrara B Chalk

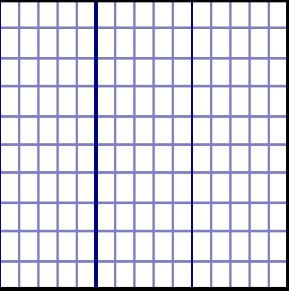
Target Toe

TD @ 18,984'  
on Oct. 24, 2017

CHALK (90%) med gy -dkgy, brn, mott ip, rthy txt, sbblky-sbplty, arg ip, frm - sft, occ  
xls cal frac fil; MRLST: (10%) dkgy - v dk gy, rthy, sbblky - bily, frm-brit, carb, dism  
pyr, sppty dry cut flor, slo - mod fast blmg - stmg milky grnsh yel cut, spptd ylwh grn  
resd ring.

**Thank You  
Goolsby**





19050

Top's		
MD	TVD	SSD
7166'	6918'	-2083'
7219'	6950'	-2115'
7524'	7072'	-2237'
18984'	7098	-2263'
u Brothers & Assoc.		

