

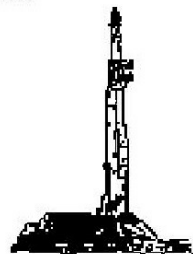
**GOOLSBY BROTHERS**  
and associates, inc.

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-9A-L

API: 051234510700

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

License Number:

Spud Date: November 5, 2017

Surface Coordinates: 1829'FSL & 276'FEL NE/SE Sec. 11 T6N R66W

Lat/Long: 40°30'02.128"N / 104°44'09.409"W

Bottom Hole Coordinates: Planned: 1424'FSL & 300'FEL, SEC.9 T6N R66W

Projected: 1524'FSL & 1719'FWL, SEC.10 T6N R66W

Ground Elevation (ft): 4,810'

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

Logged Interval (ft): 6,400' To: 16,680'

Total Depth (ft): 16,680' DMTD

Formation: Niobrara A Chalk

Type of Drilling Fluid: OBM (LSND Surface).

Region: Wattenberg

Drilling Completed: November 8, 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: Dallan Gardner & 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 16,666' MD

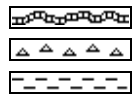
## Casing

9 5/8" Surface Casing pre set @ 1,810' MD.  
5 1/2" Production Liner run on 11/9/2017 to 16,659'.

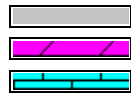
## Comments

- 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, Aaron Herskind  
MWD: Garrett Gedsen, Baker Remote Field Operations.
- 5) Gas Equipment: Pason Gas Analyzer (Spectrometer)
- 6) Wellsite Geologist: Blake Stacey & Dallan Gardner

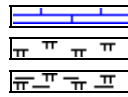
## ROCK TYPES



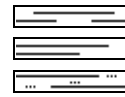
Bent  
Cht  
Clyst



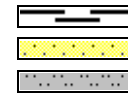
Oil sat.  
Dol  
Lmst



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

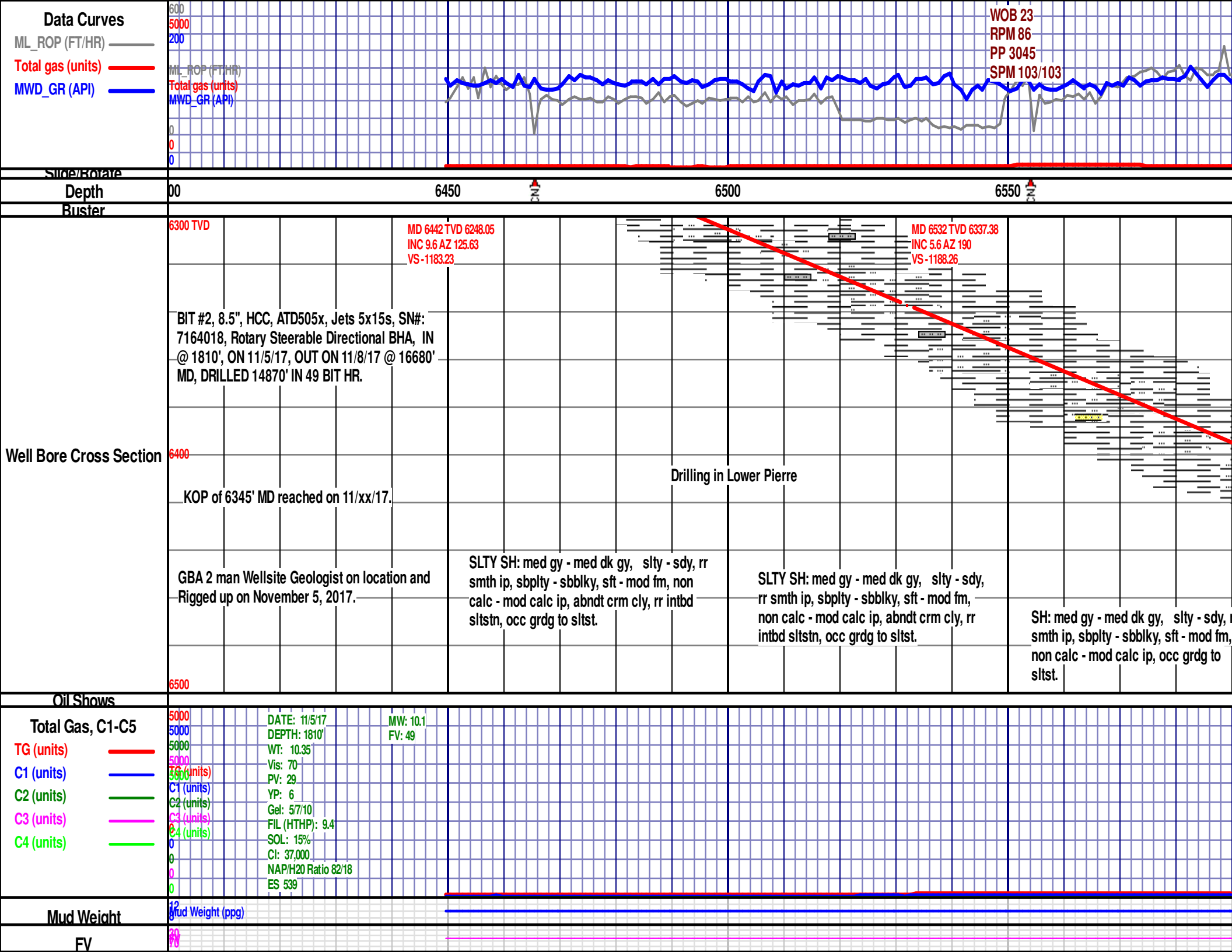
Inter  
 Moldic  
 Organic  
 Pinpoint  
 Vuggy

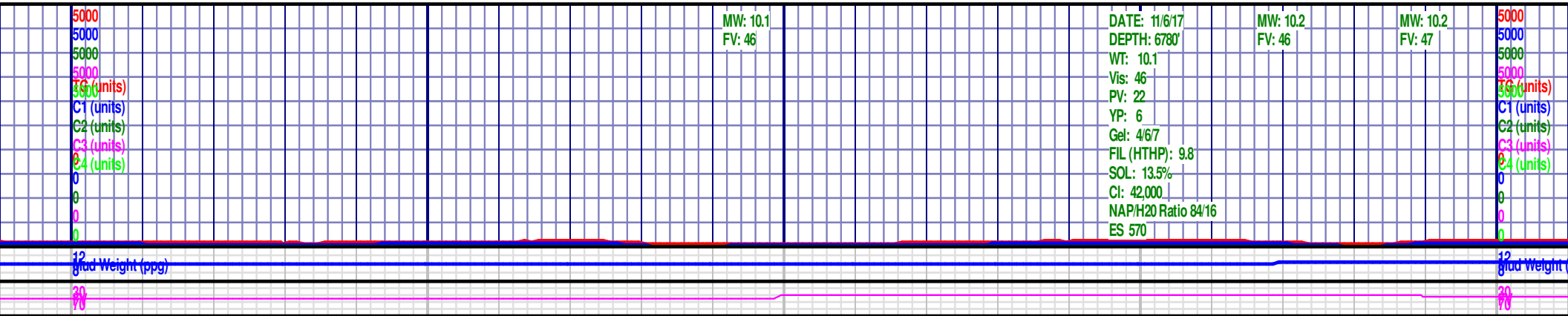
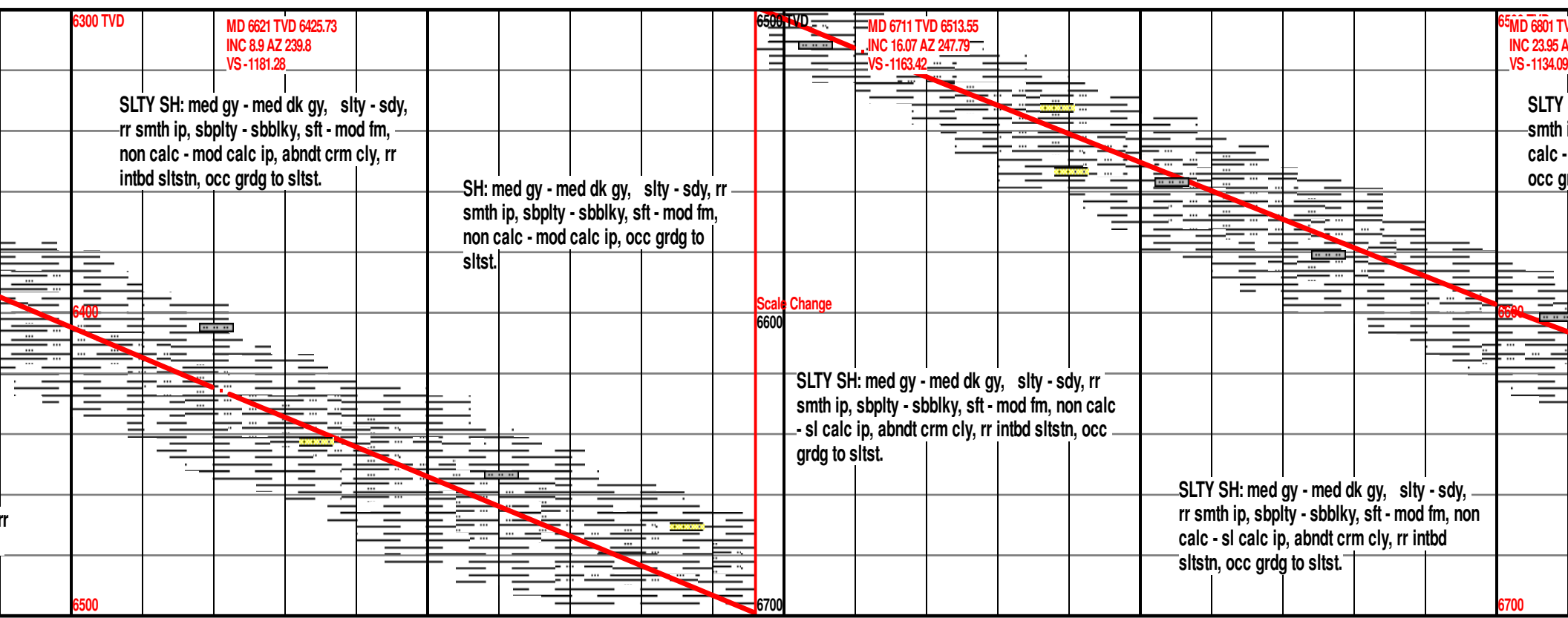
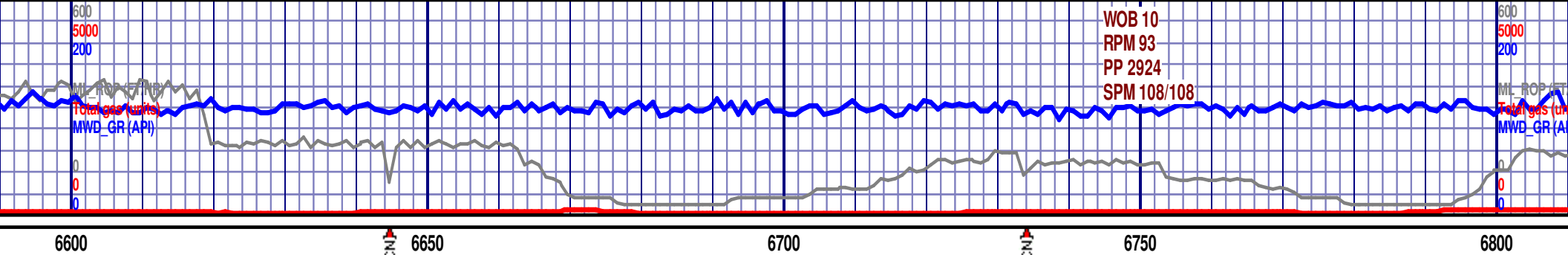
### ROUNDING

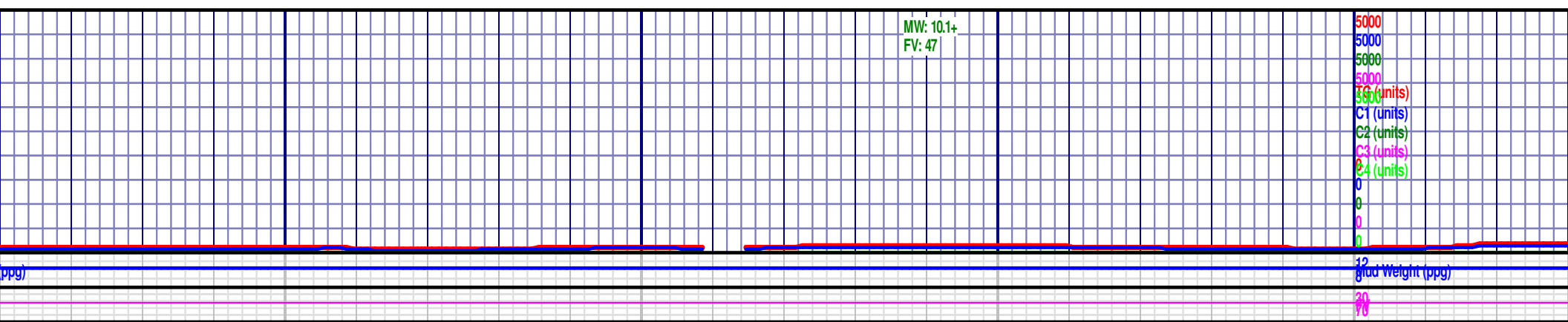
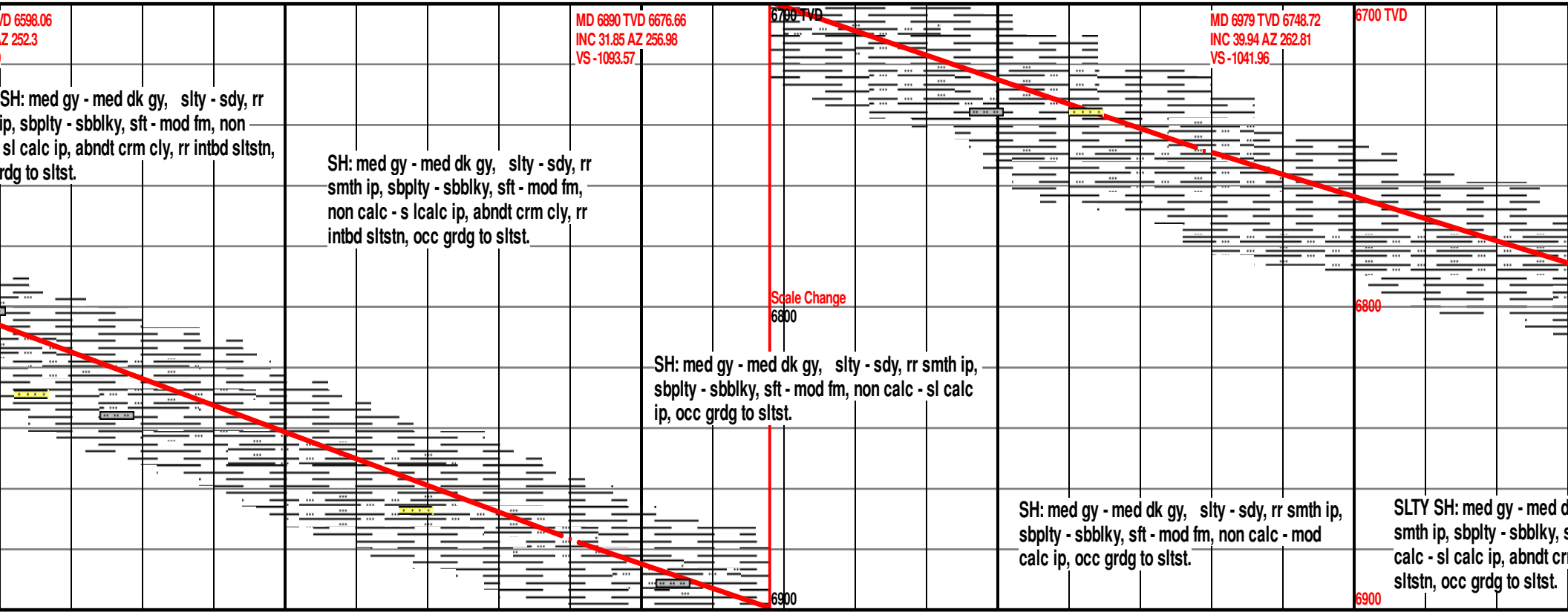
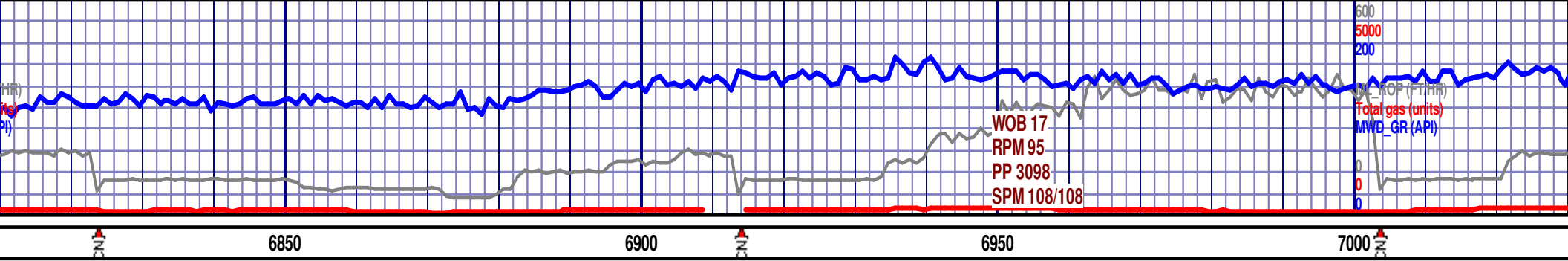
Rounded  
 Subrnd  
 Subang  
 Angular

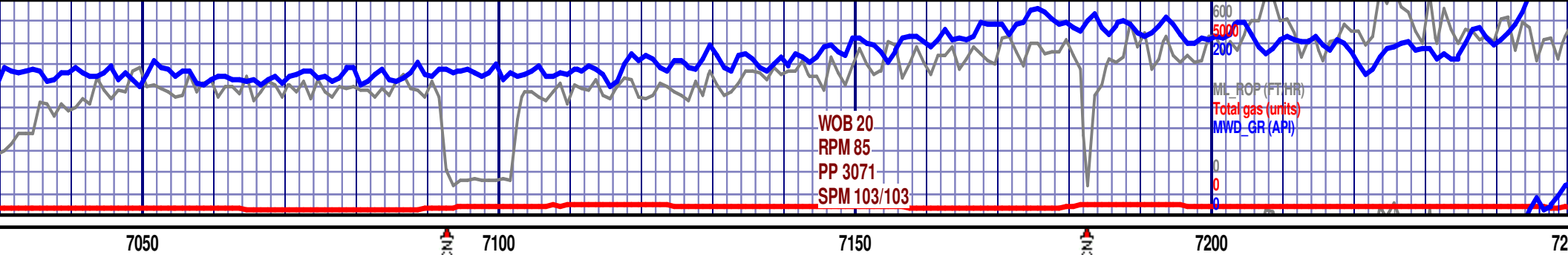
### SORTING

Well  
 Moderate  
 Poor



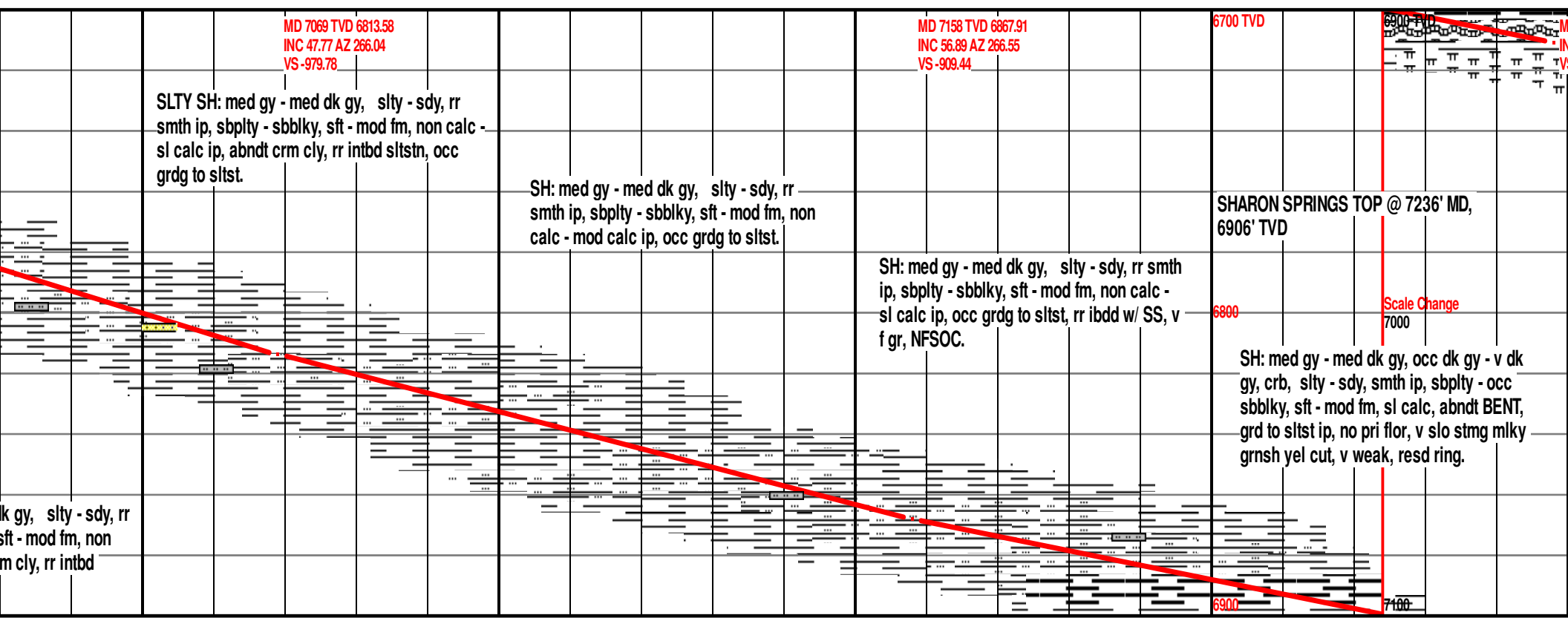






WOB 20  
RPM 85  
PP 3071  
SPM 103/103

ML\_ROP (FT/HR)  
Total gas (units)  
MWD\_GR (API)



MD 7069 TVD 6813.58  
INC 47.77 AZ 266.04  
VS -979.78

MD 7158 TVD 6867.91  
INC 56.89 AZ 266.55  
VS -909.44

6700 TVD

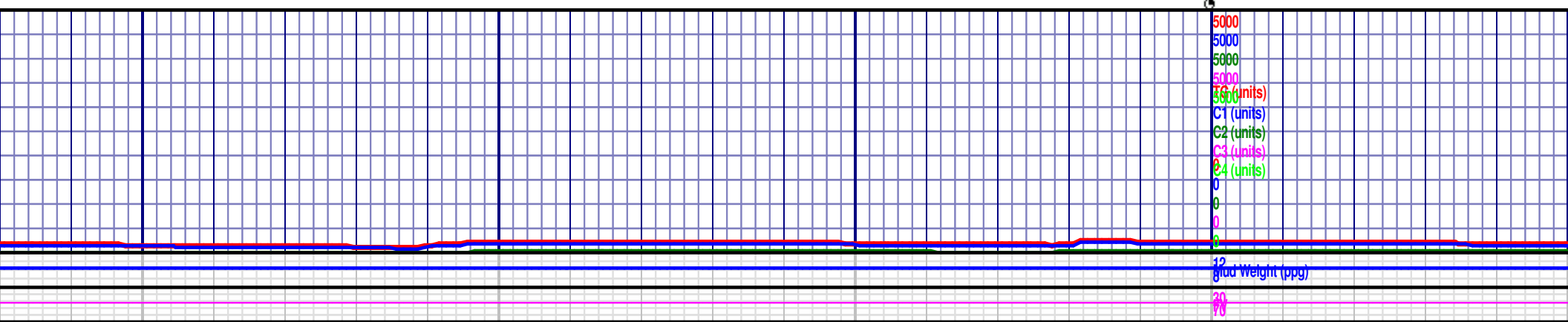
6900 TVD

SHARON SPRINGS TOP @ 7236' MD,  
6906' TVD

Scale Change  
7000

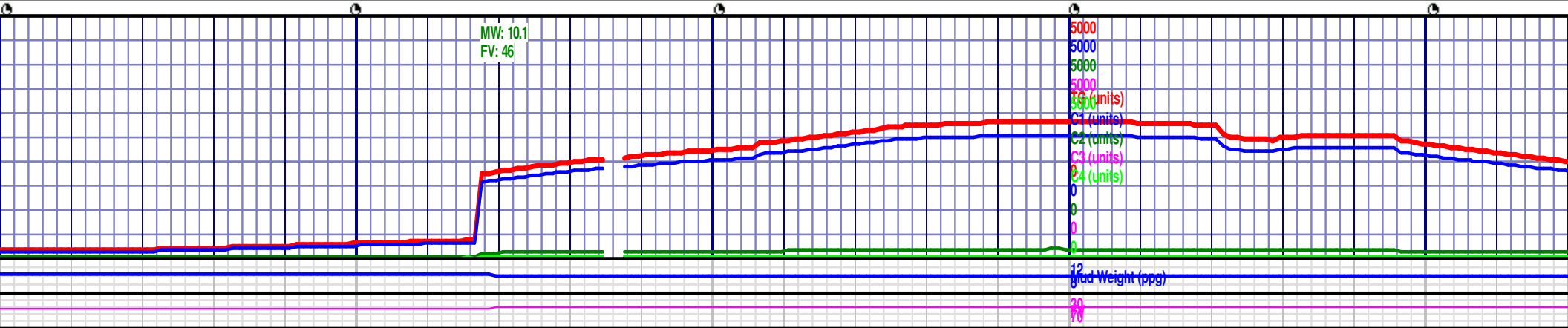
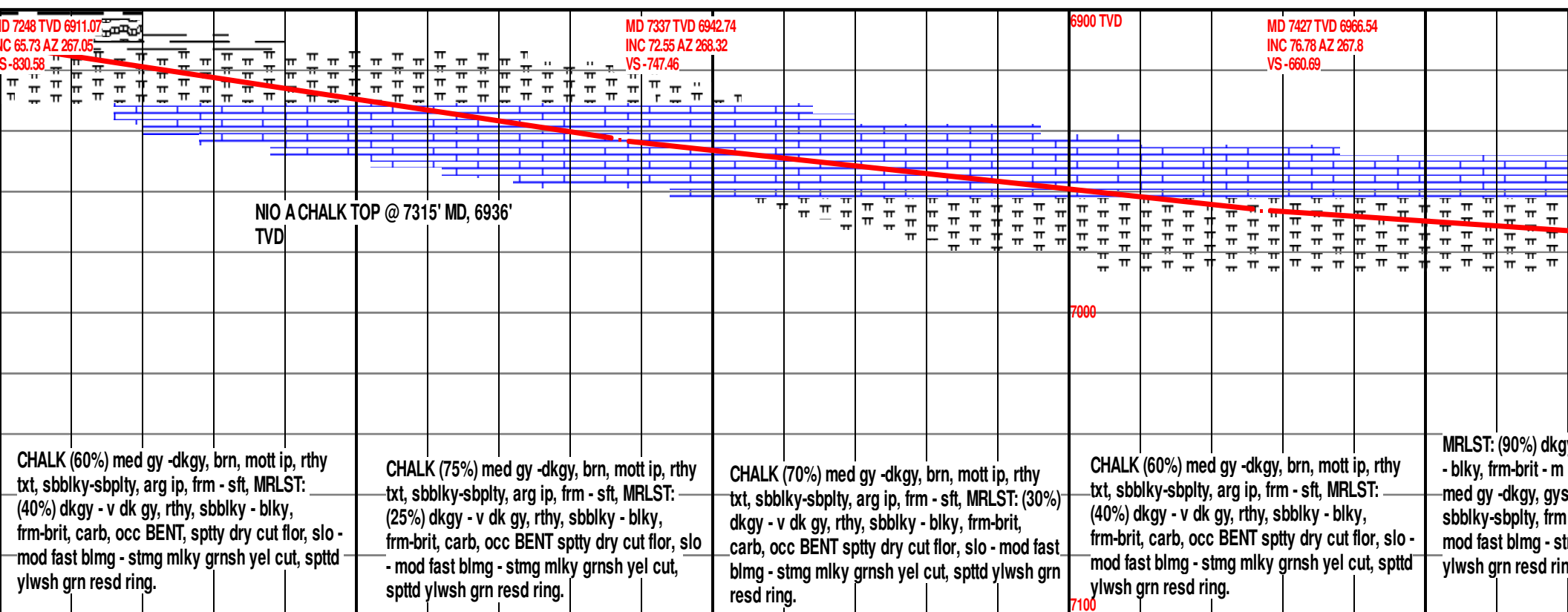
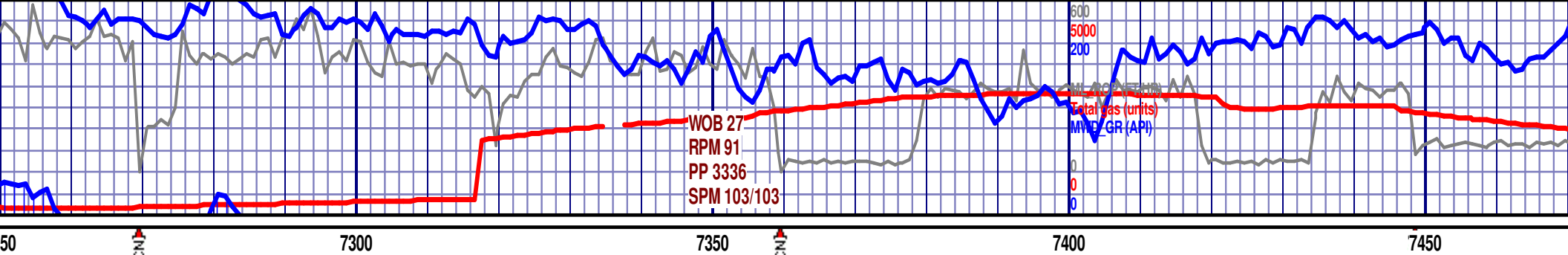
SH: med gy - med dk gy, occ dk gy - v dk  
gy, crb, slty - sdy, smth ip, sbply - occ  
sbblky, sft - mod fm, sl calc, abndt BENT,  
grd to sltst ip, no pri flor, v slo stmg mlky  
grnsh yel cut, v weak, resd ring.

dk gy, slty - sdy, rr  
sft - mod fm, non  
m cly, rr intbd

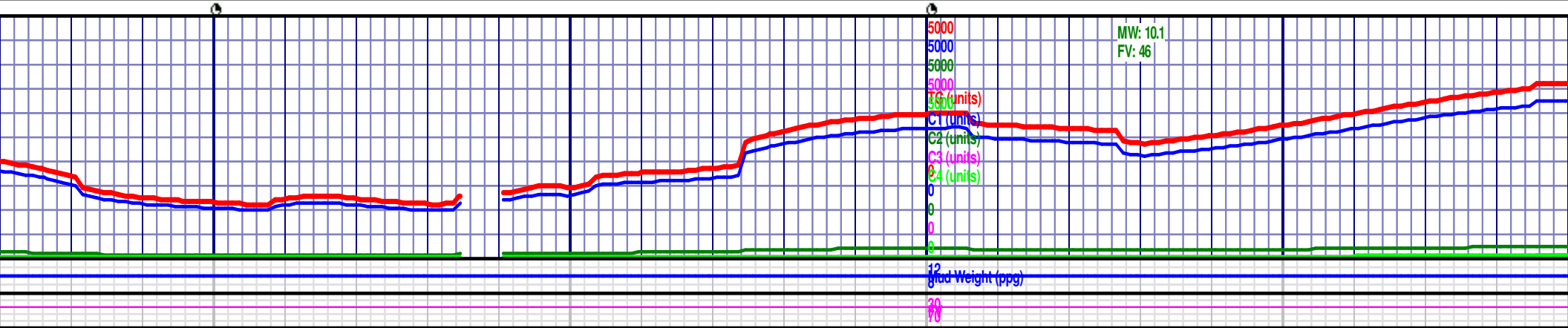
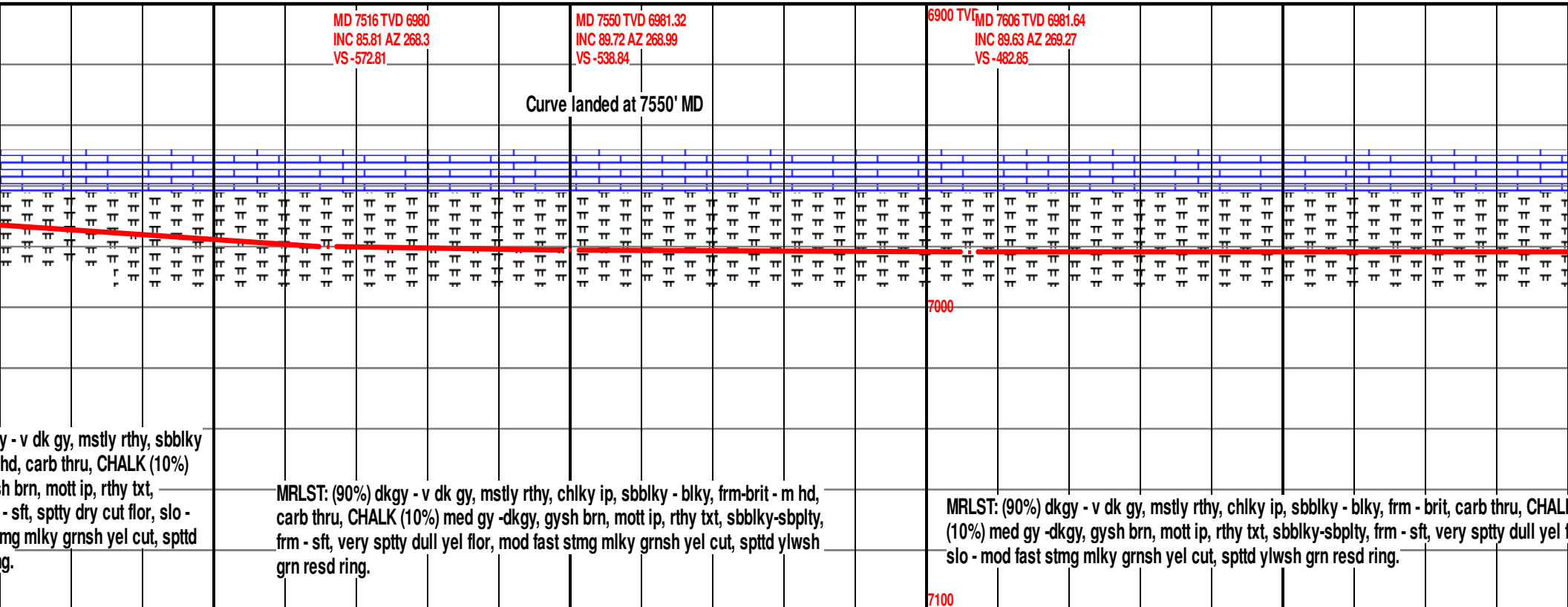
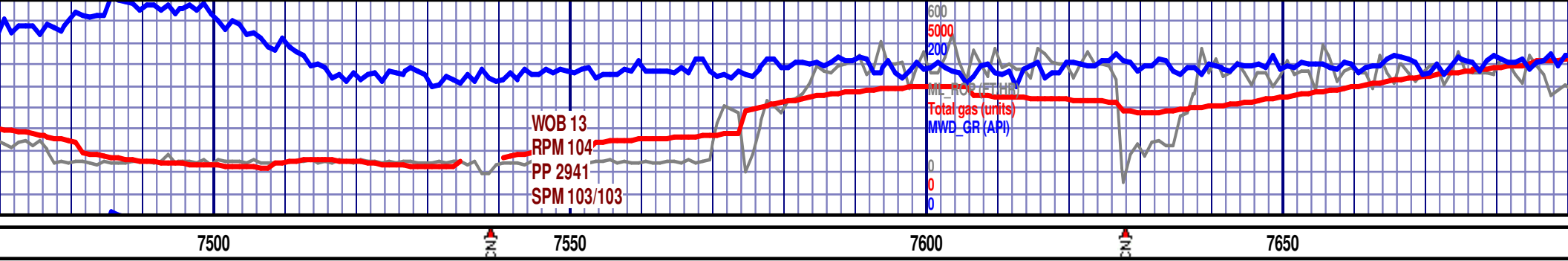


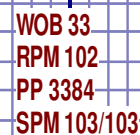
T0 (units)  
C1 (units)  
C2 (units)  
C3 (units)  
C4 (units)

Fluid Weight (ppg)









**K**  
**flor.**

MRLST: (90%) dkgy - v dk gy, mstly rthy, chlky ip, sbblky - blkly, frm - brt, carb thru;  
CHALK (10%) med gy -dkgy, gysh brn, mott ip, rthy txt, sbblky - sbpity, frm - sft; BENT:  
(tr), sft, wxy, pyft ip, yel min flor; very sppty dull yel flor, mod fast - fst stmg mlky -  
grnsh yel cut, spttd ylwsh grn resd ring.

MRLST: (90%) dkgy - v dk gy, mstly rthy, chlky ip, sbblky - blky, frm - brit, carb thru, occ pyr clstrs; CHALK (10%) med gy -dkgy, gysh brn, mott ip, rthy txt, sbblky -sbply, frm - sft; BENT: (tr), sft, wxy, pytf ip, yel min flor; very sppty dull yel flor, mod fast - fst stmg milky grnsh yel cut, spptd ylwsh grn resd ring.

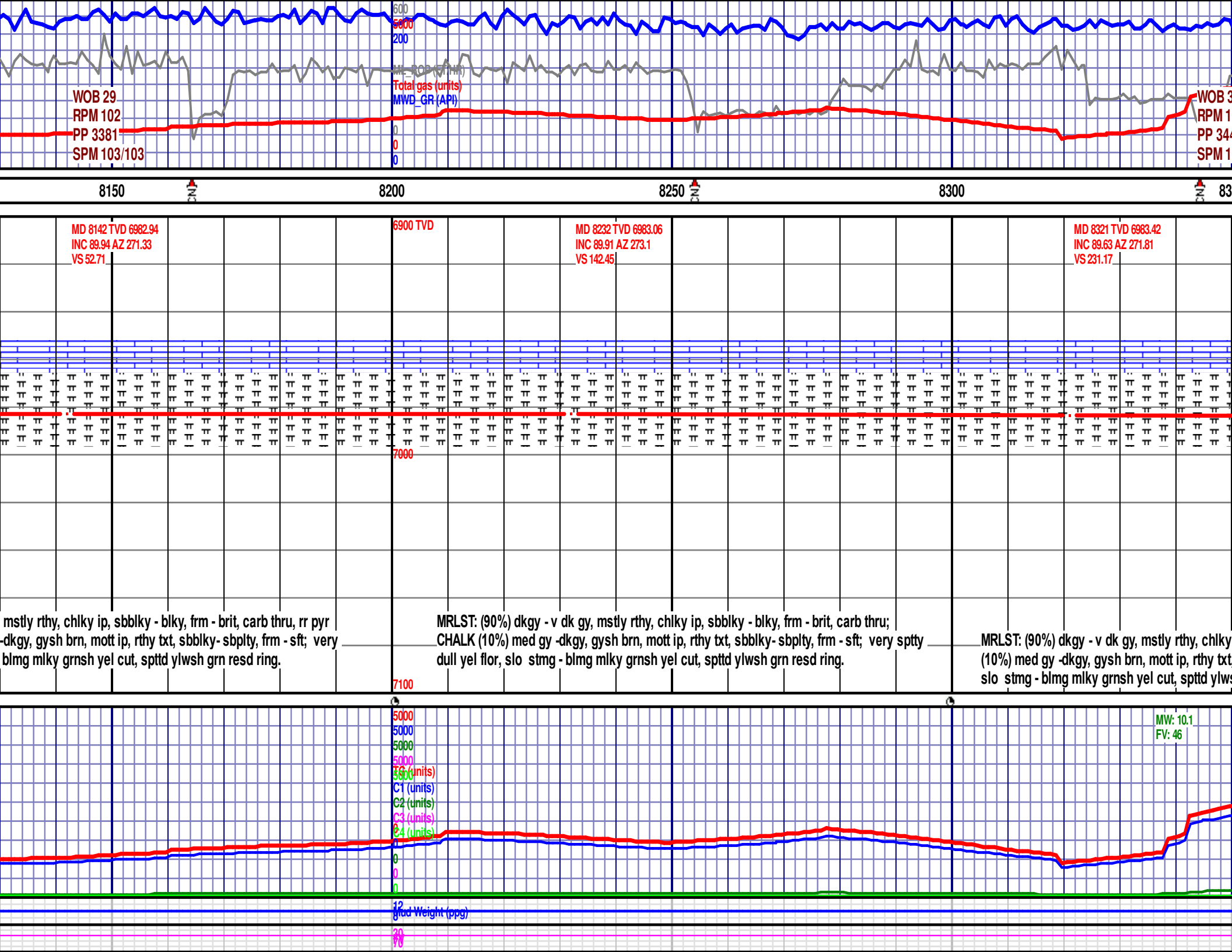
MRLS  
pyr cl  
sft; BI  
- mod



~~12~~  
~~glad Weight (ppg)~~

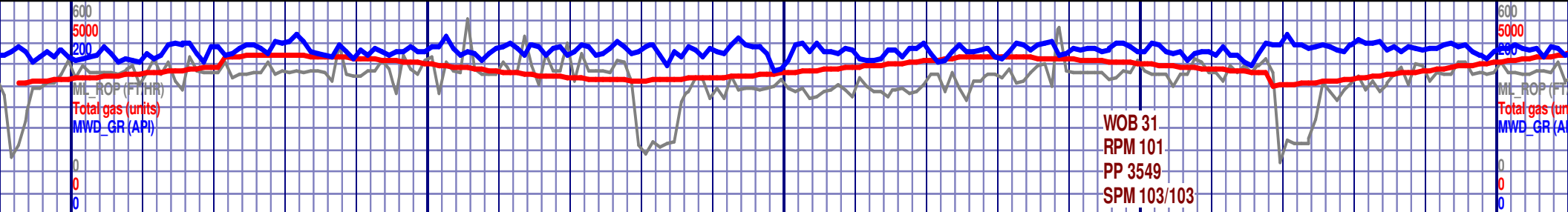
31  
370



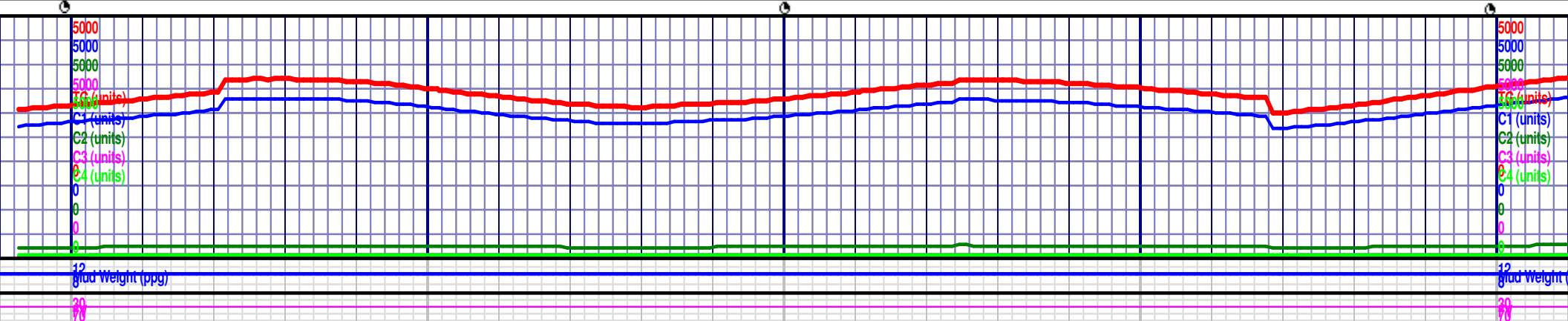
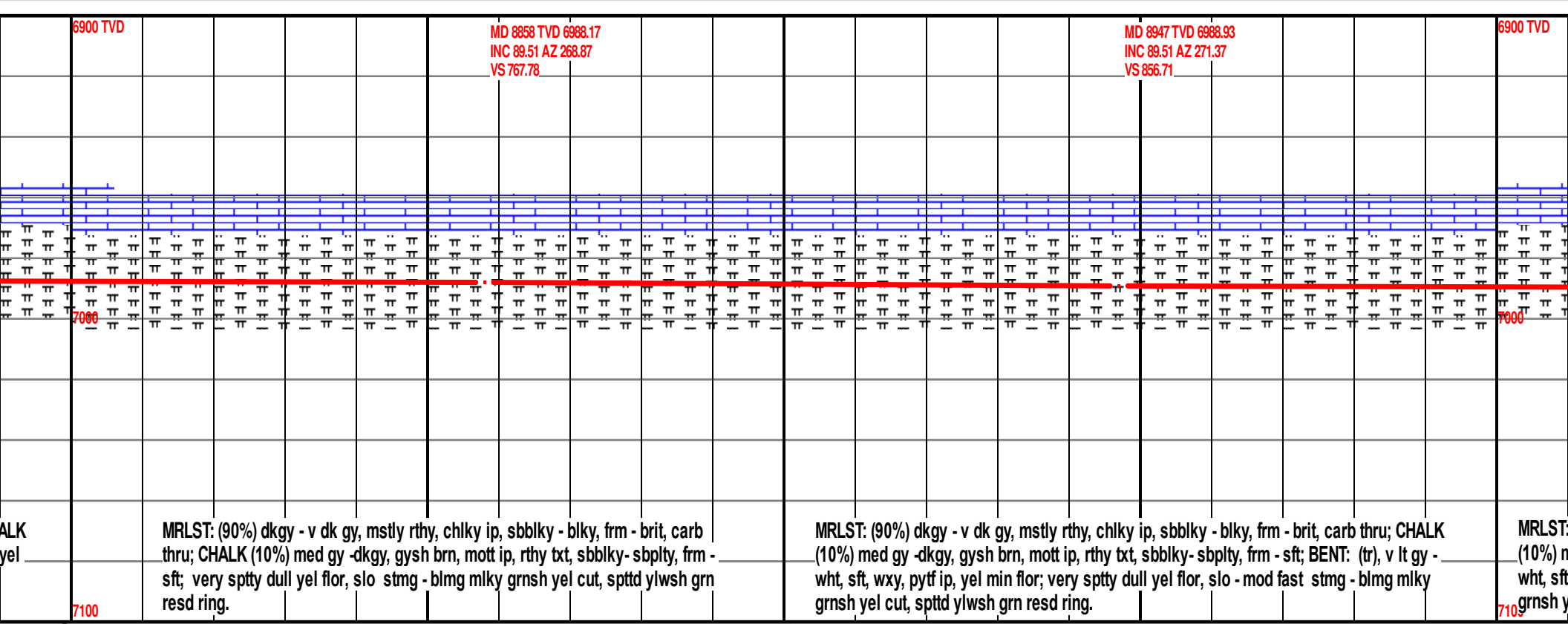






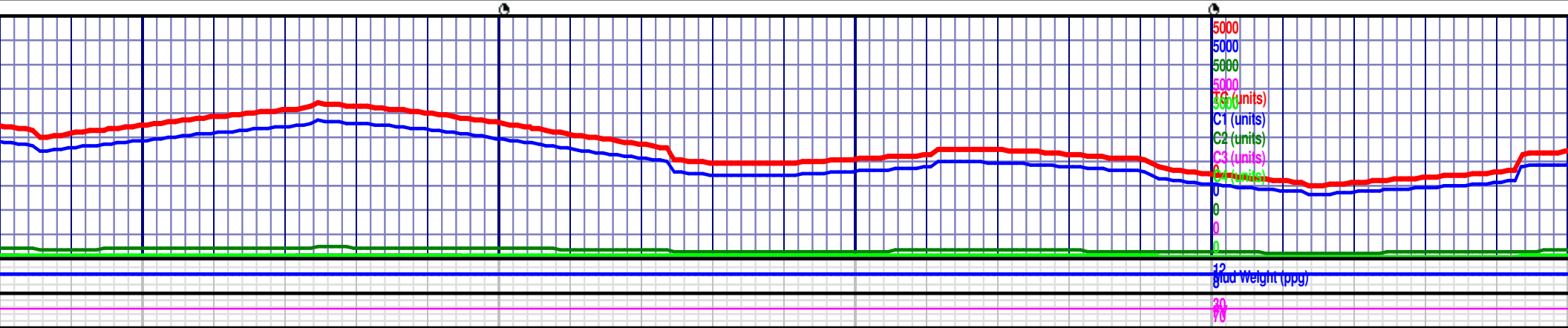
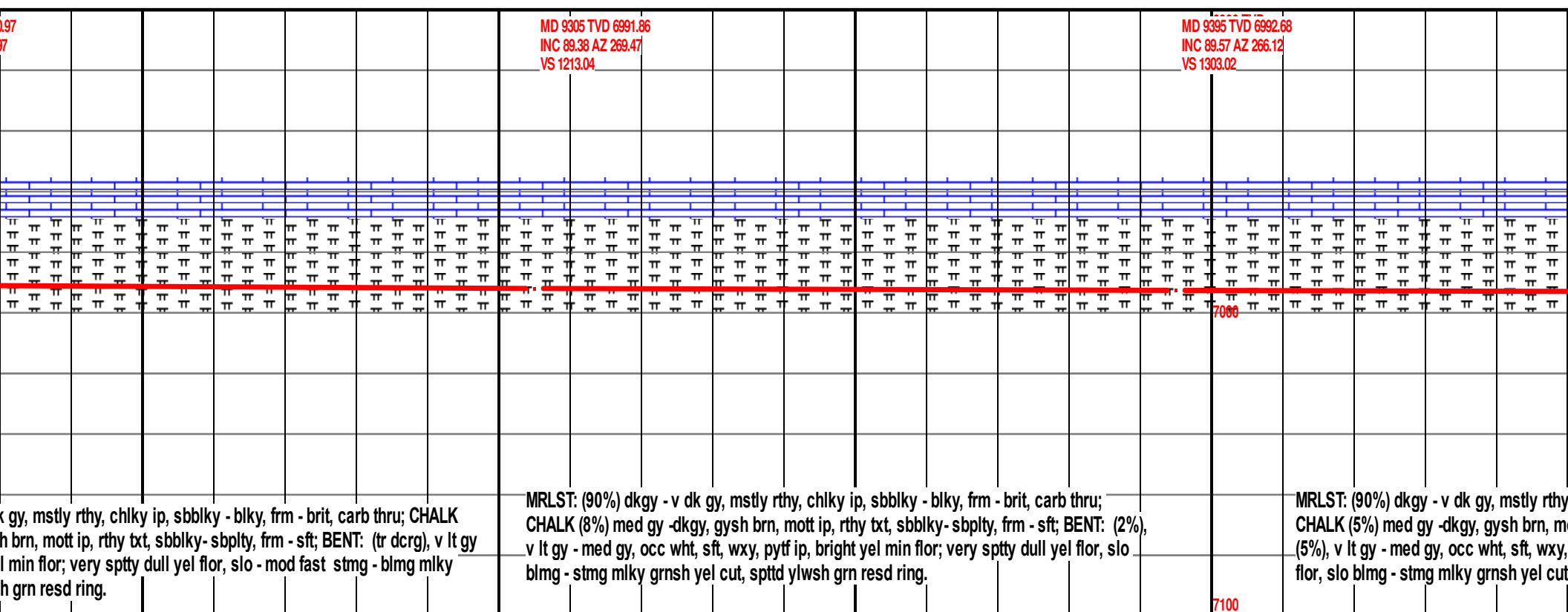
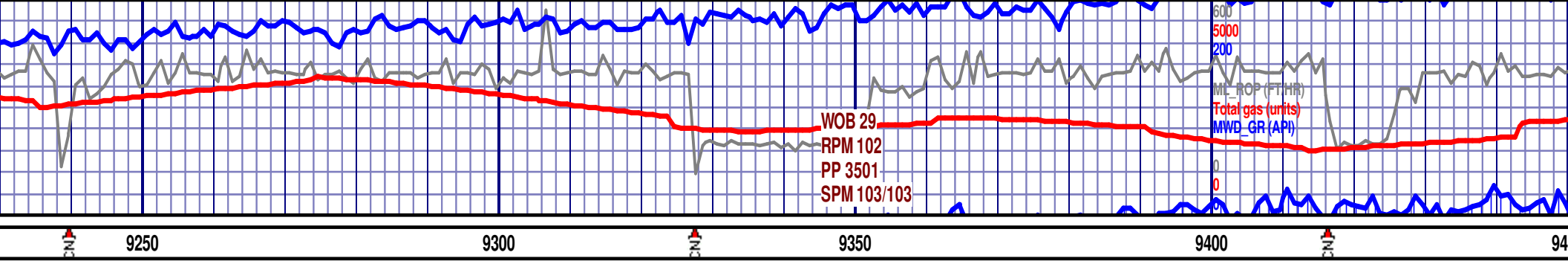


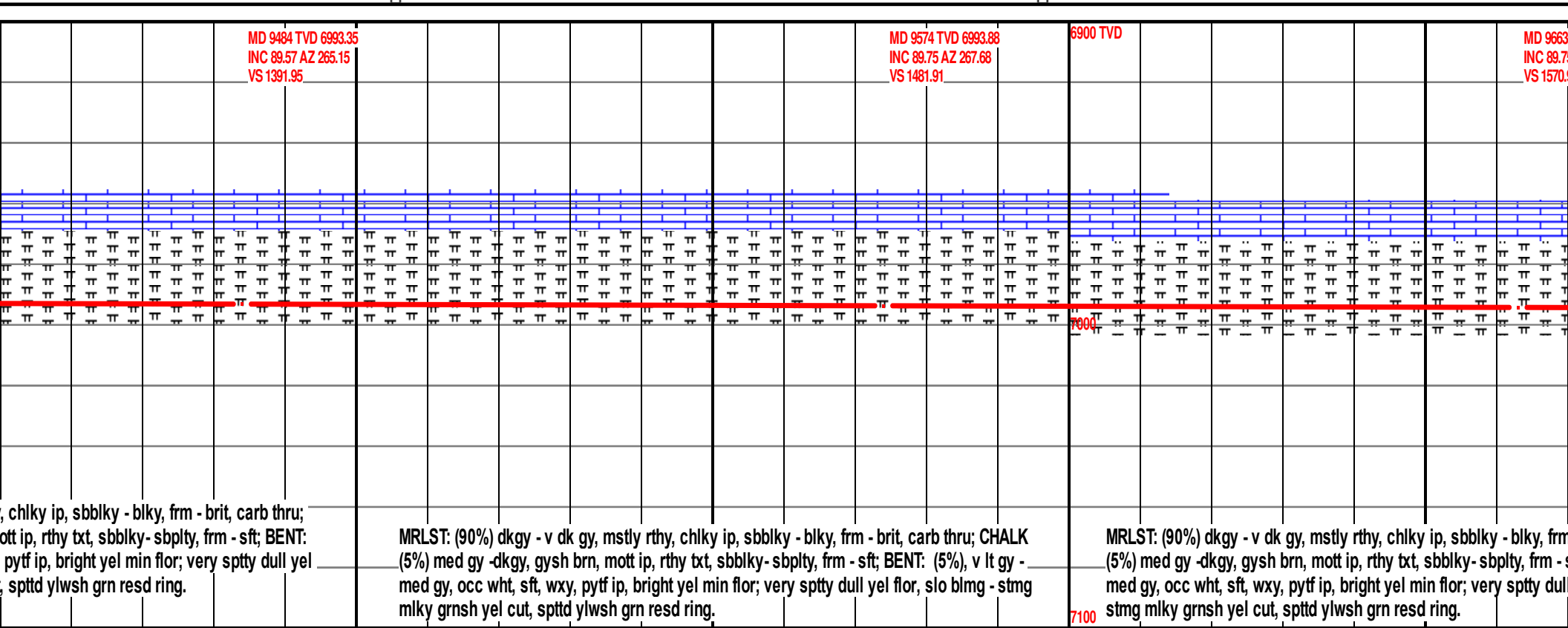
8800 8850 8900 8950 9000

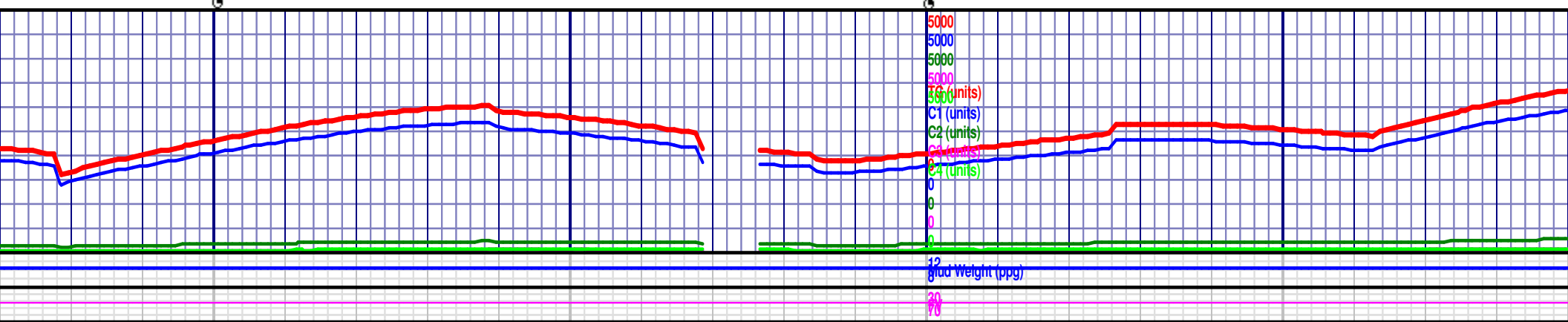
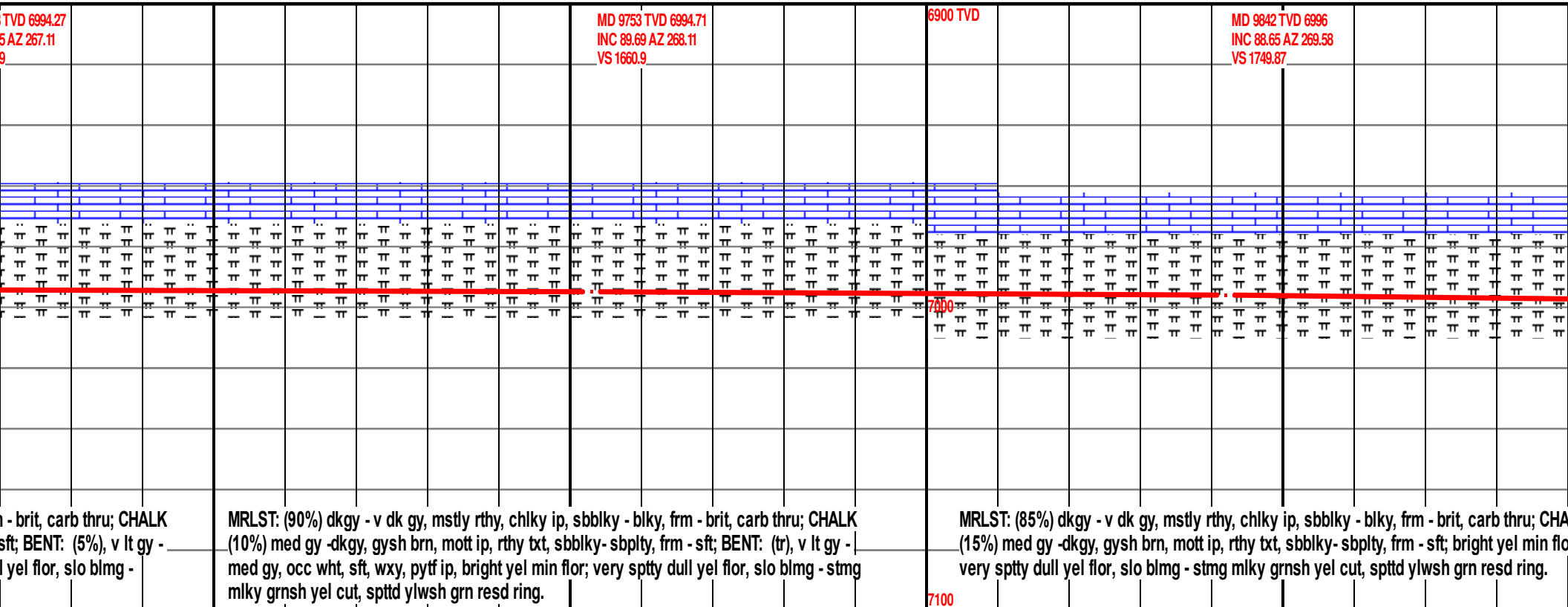
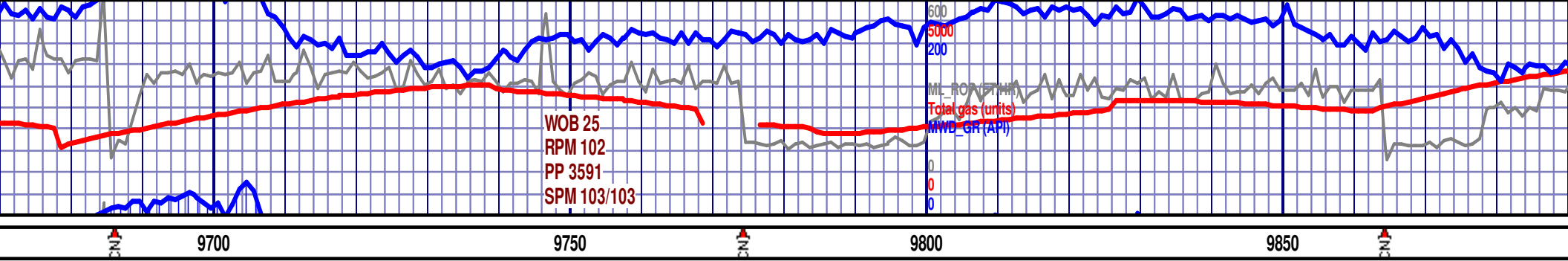


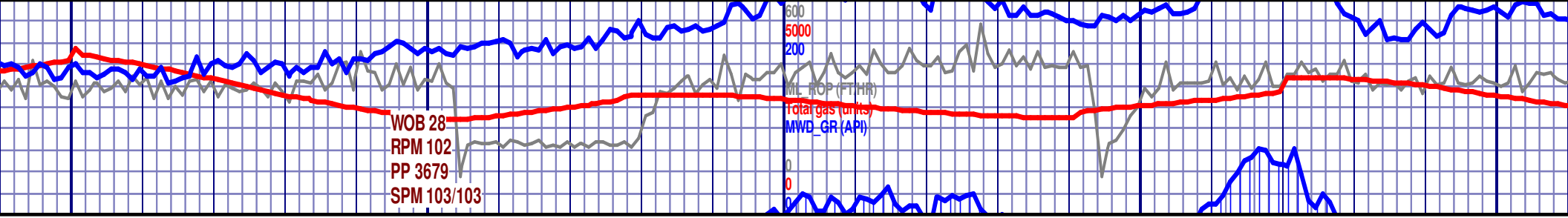












9900

9950

10000

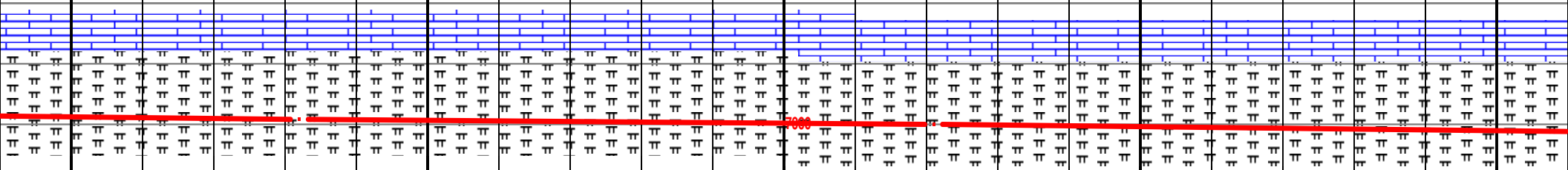
10050

10100

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INC 88.68 AZ 271.01  
VS 1839.77

6900 TVD

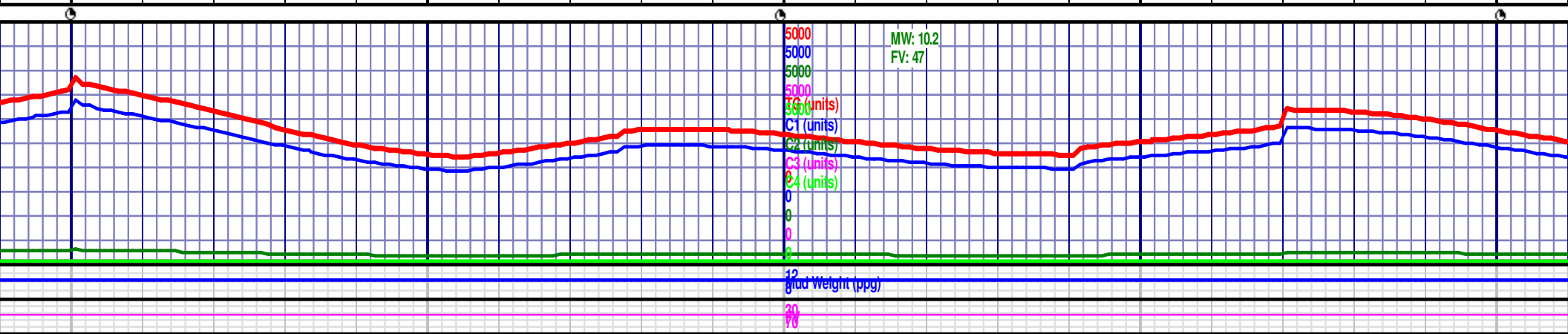
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VS 1928.61

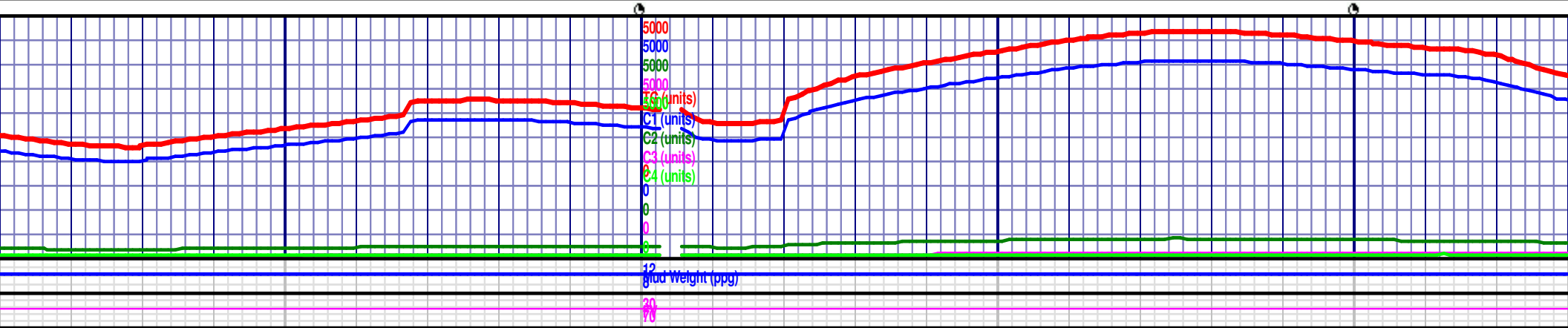
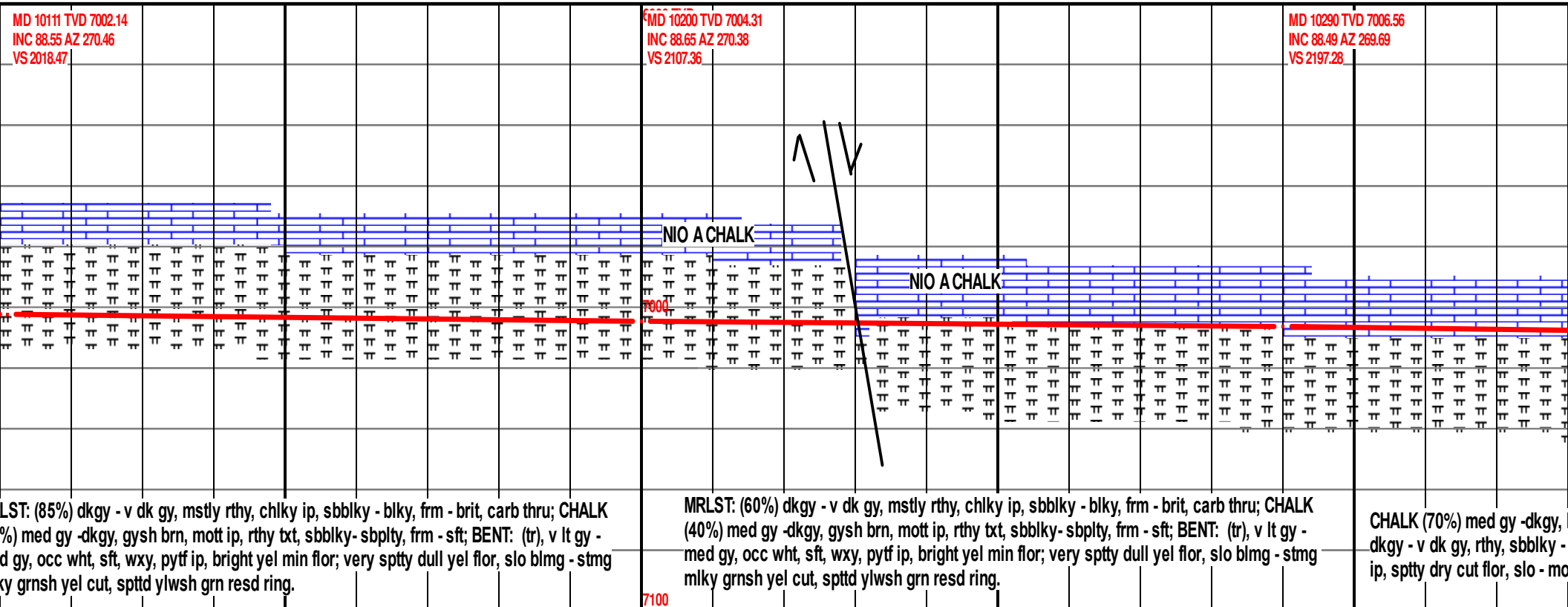
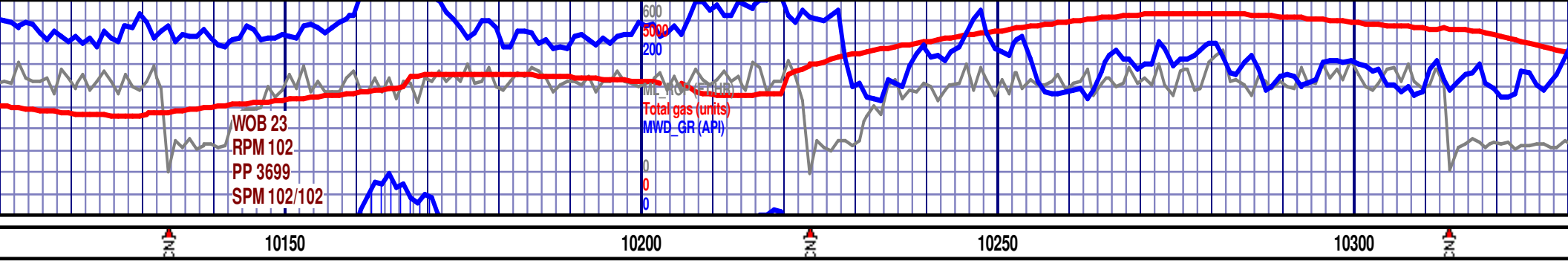


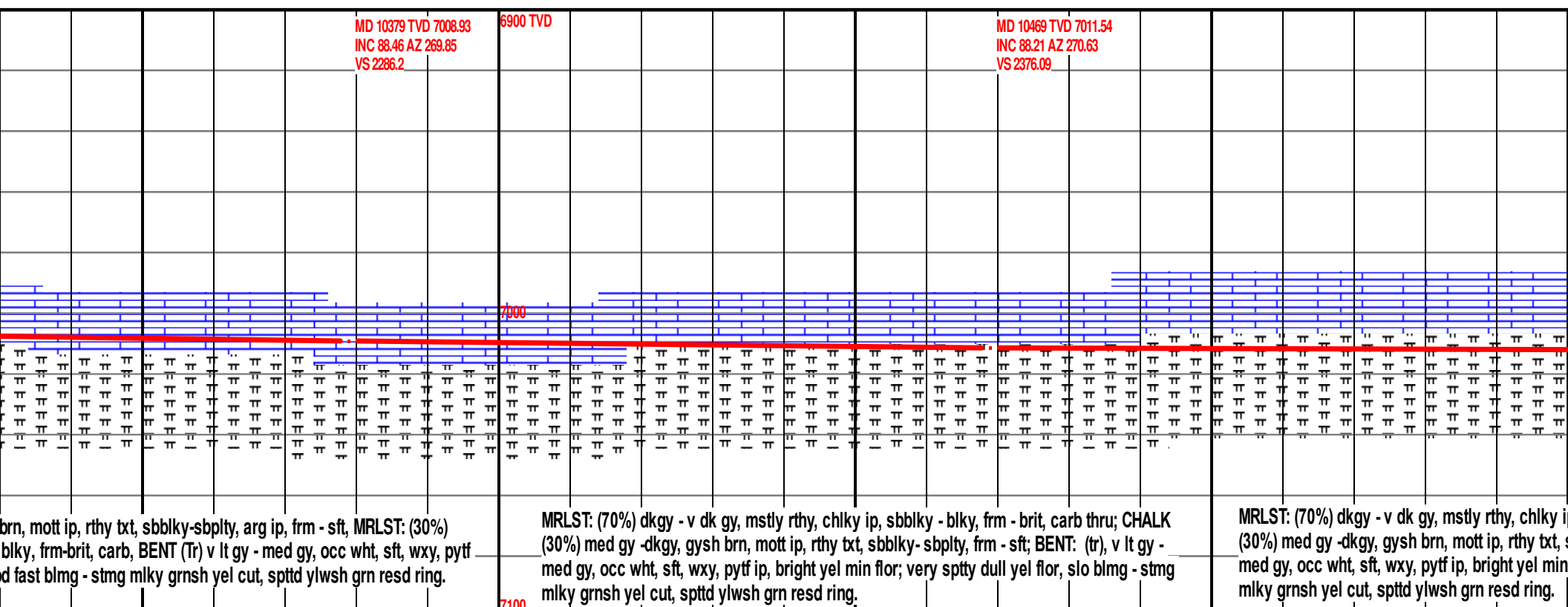
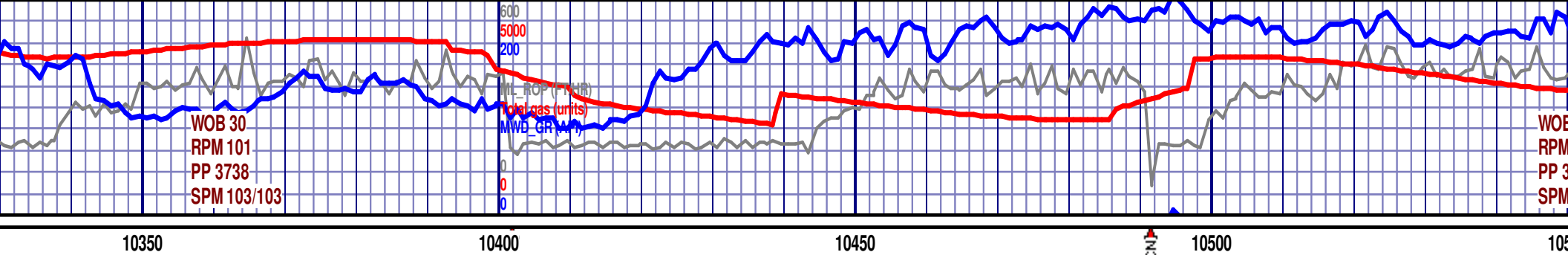
MLK  
r;  
MRLST: (85%) dkgy - v dk gy, mstly rthy, chlky ip, sbblky - blky, frm - brit, carb thru; CHALK  
(15%) med gy -dkgy, gysh brn, mott ip, rthy txt, sbblky- sbply, bright yel min flor; very spty  
dull yel flor, slo blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd ring.

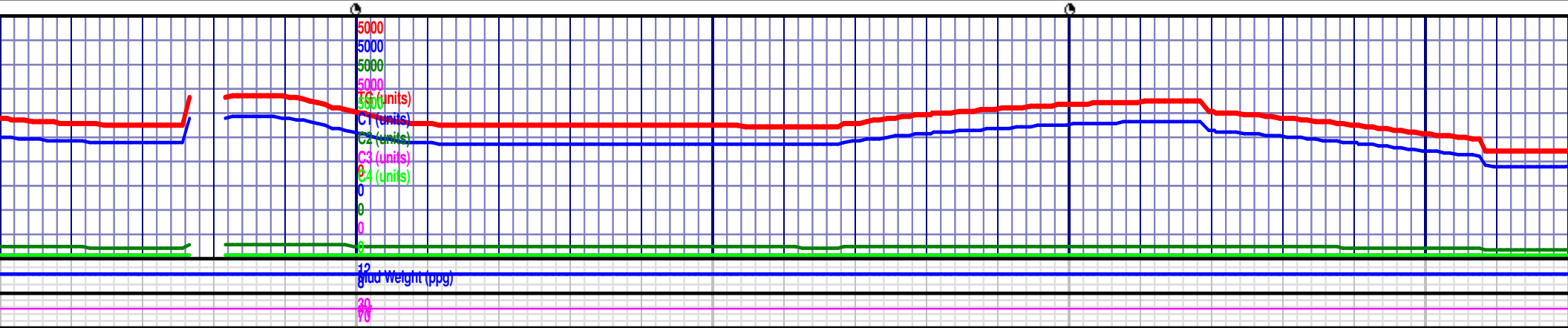
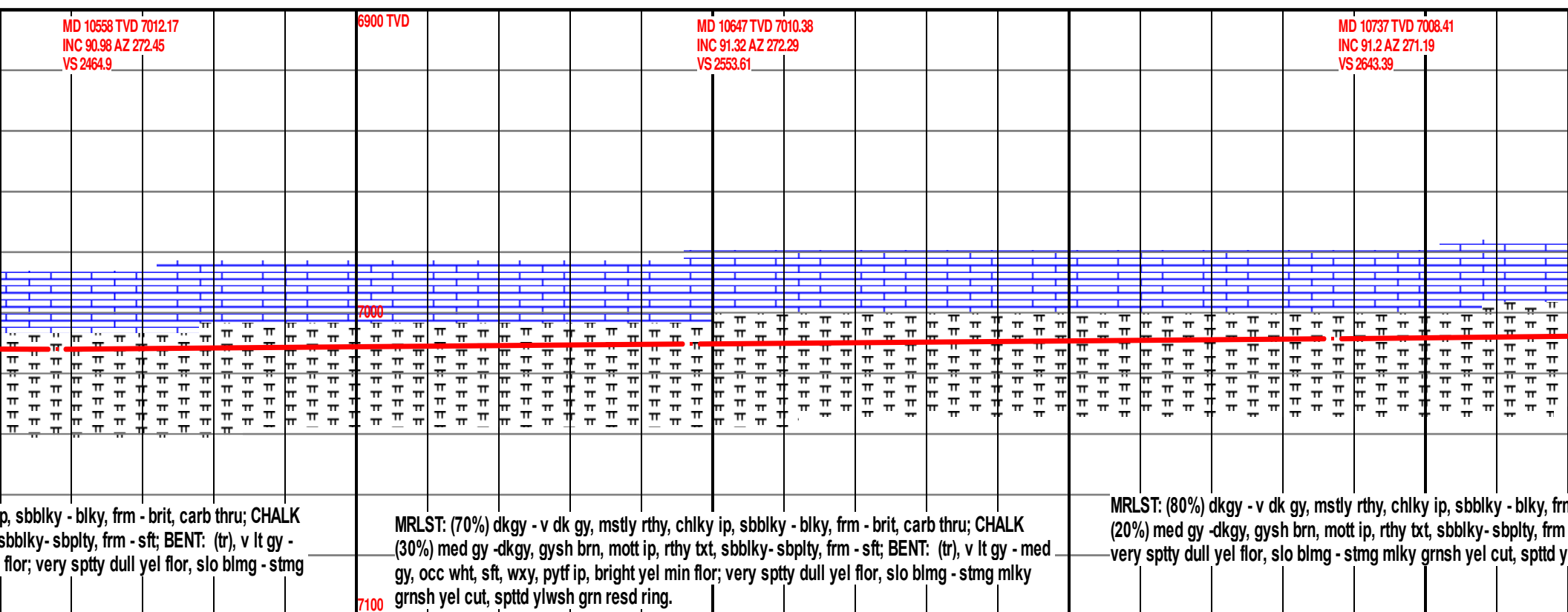
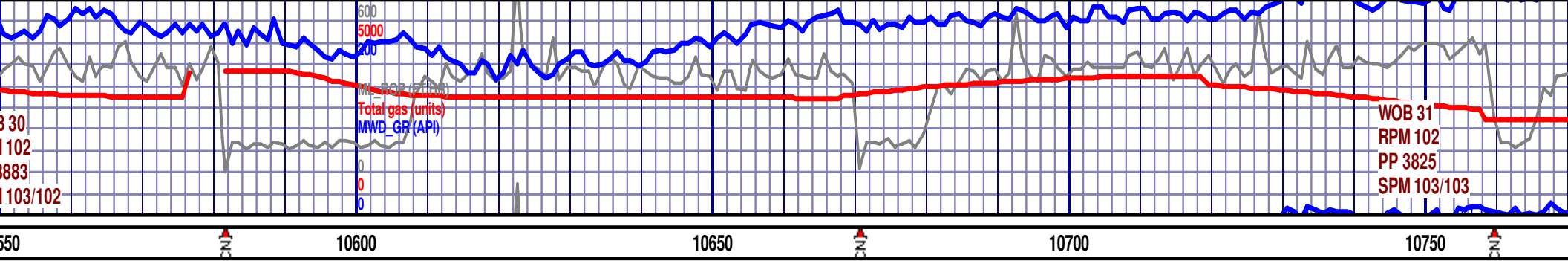
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(10%) med gy -dkgy, gysh brn, mott ip, rthy txt, sbblky- sbply,, bright yel min flor; very spty  
dull yel flor, slo blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd ring.

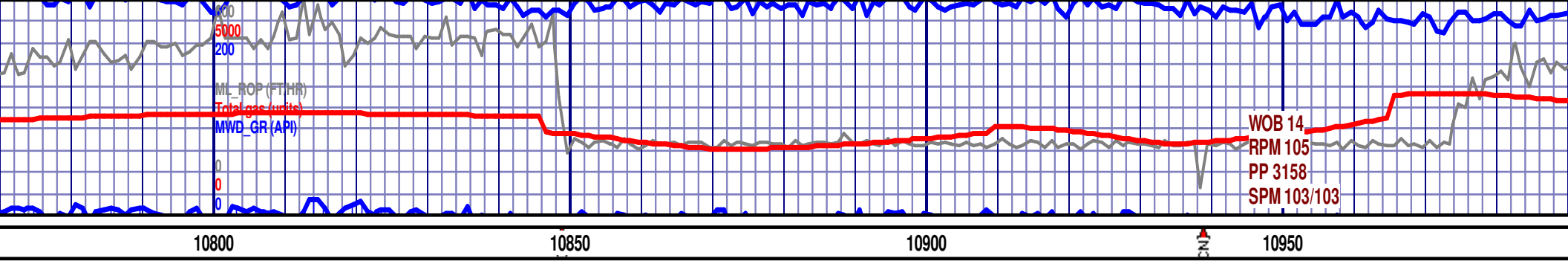
MR  
(15  
me  
mlk



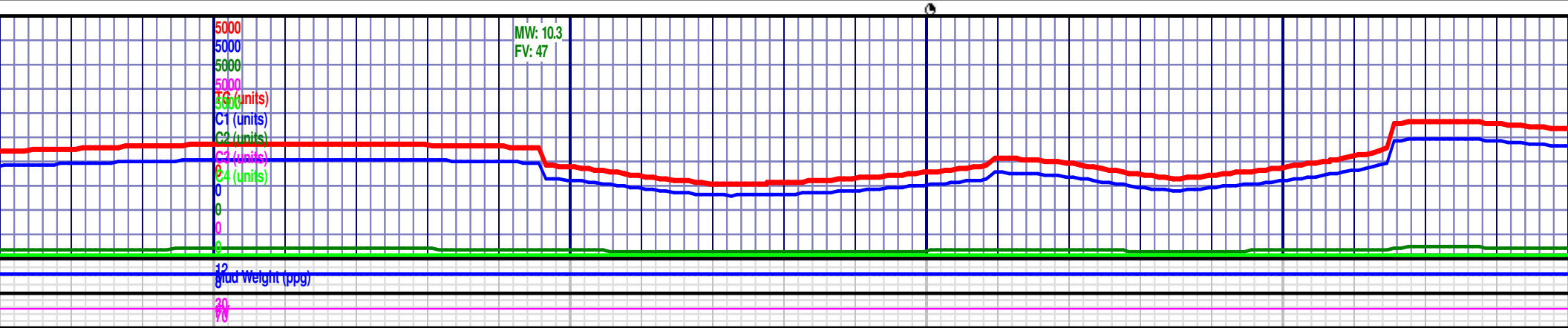




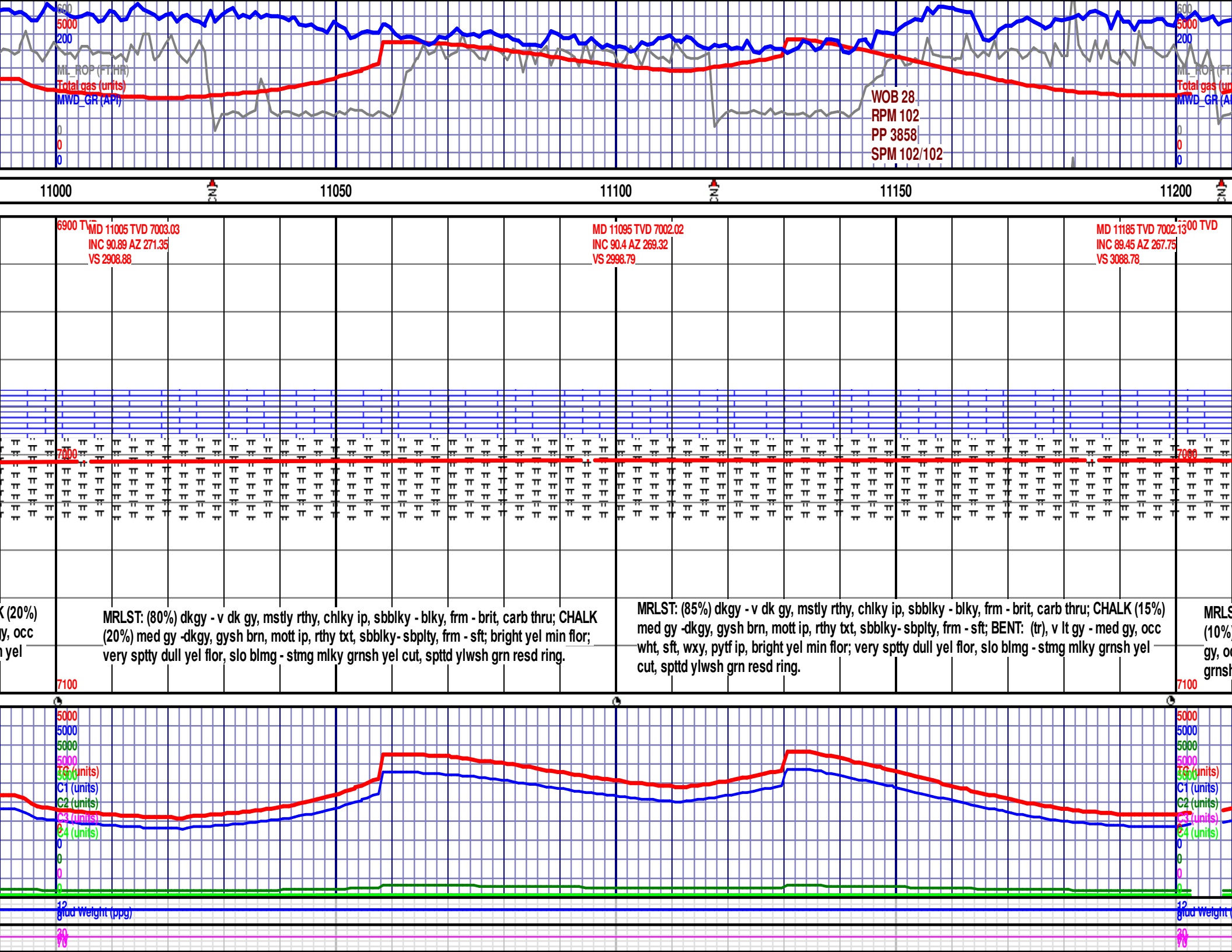


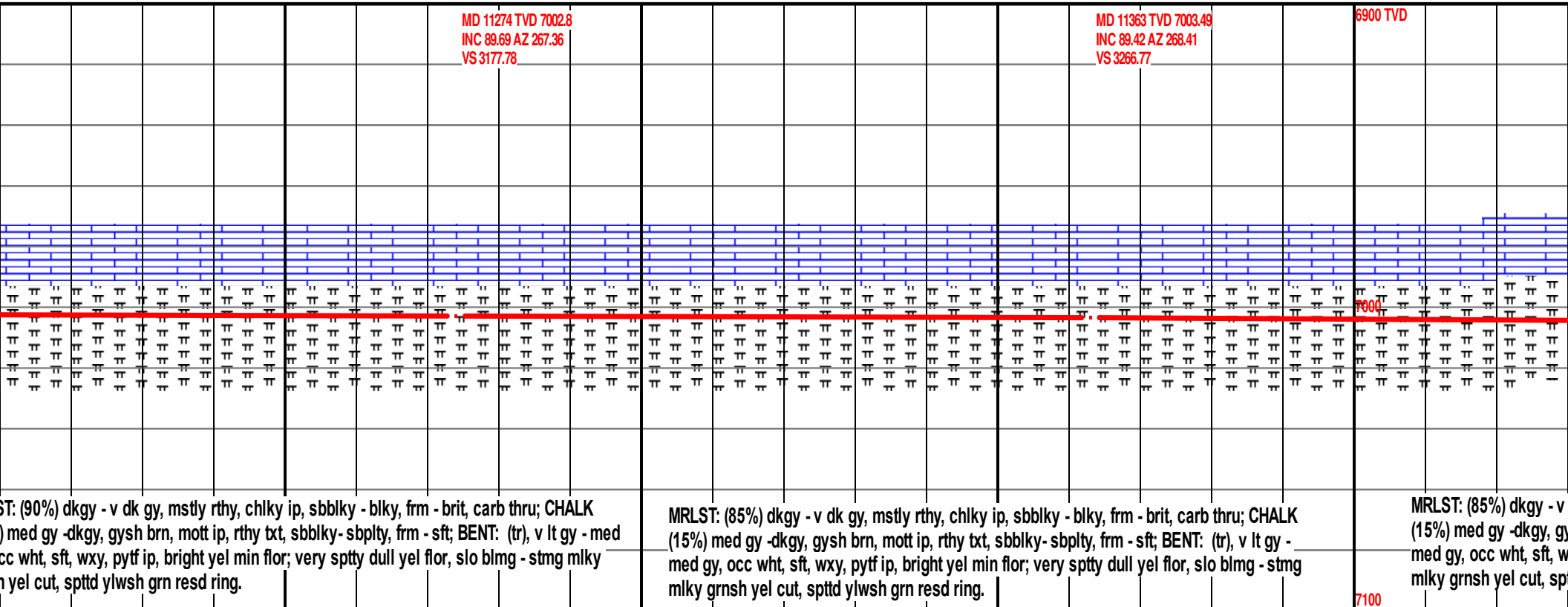


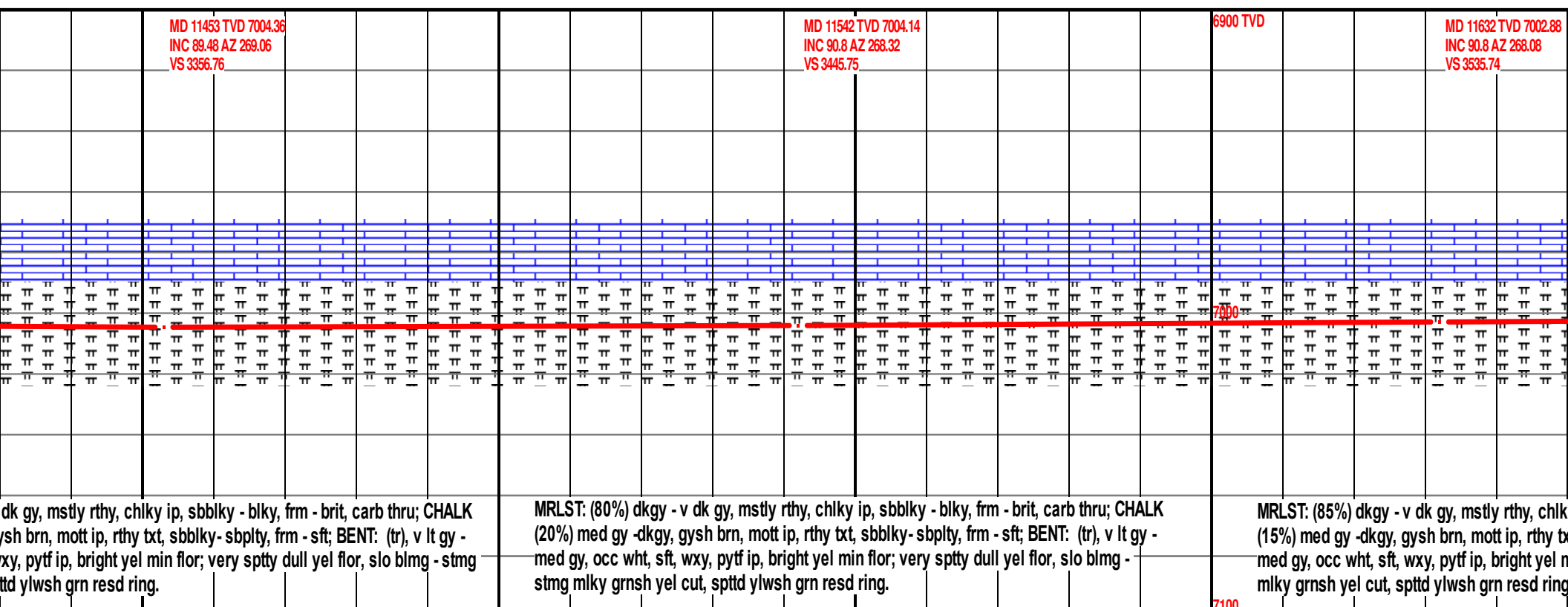
6900 TVD	MD 10826 TVD 7006.34 INC 91.45 AZ 279.17 VS 2731.59	MD 10916 TVD 7004.46 INC 90.95 AZ 275.64 VS 2820.33	
n - brit, carb thru; CHALK - sft; bright yel min flor; lwsh grn resd ring.	MRLST: (70%) dkgy - v dk gy, mstly rthy, chlky ip, sbblky - blkgy, frm - brit, carb thru; CHALK (20%) med gy -dkgy, gysh brn, mott ip, rthy txt, sbblky- sbplty, frm - sft; BENT: (10), v lt gy - med gy, occ wht, sft, wxy, pytf ip, bright yel min flor; very sppty dull yel flor, slo blmg - stmg mlky grnsh yel cut, spptd ylwsh grn resd ring.	MRLST: (80%) dkgy - v dk gy, mstly rthy, chlky ip, sbblky - blkgy, frm - brit, carb thru; CHALK med gy -dkgy, gysh brn, mott ip, rthy txt, sbblky- sbplty, frm - sft; BENT: (tr), v lt gy - med g wht, sft, wxy, pytf ip, bright yel min flor; very sppty dull yel flor, slo blmg - stmg mlky grnsh cut, spptd ylwsh grn resd ring.	
7100			

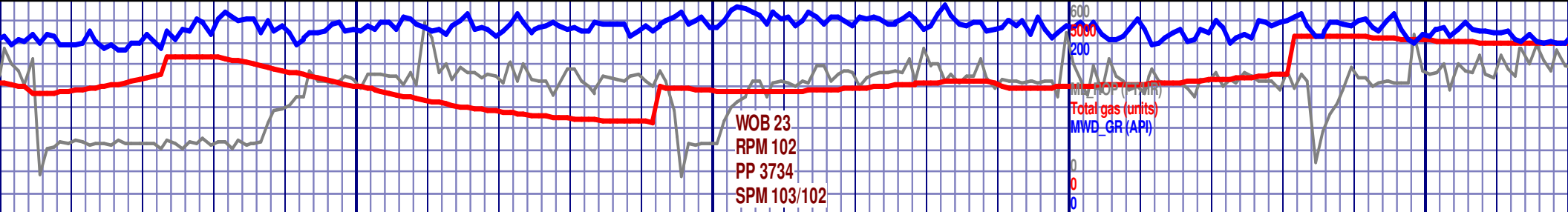




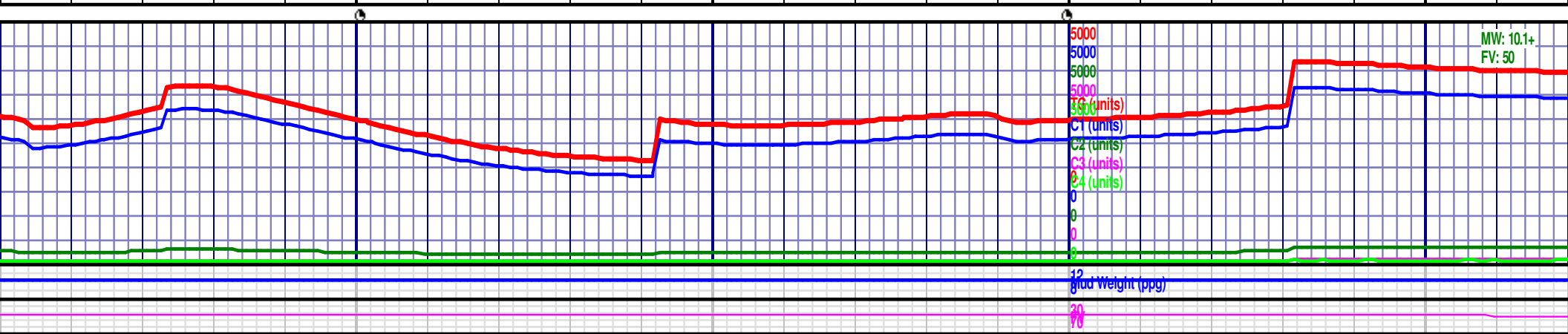
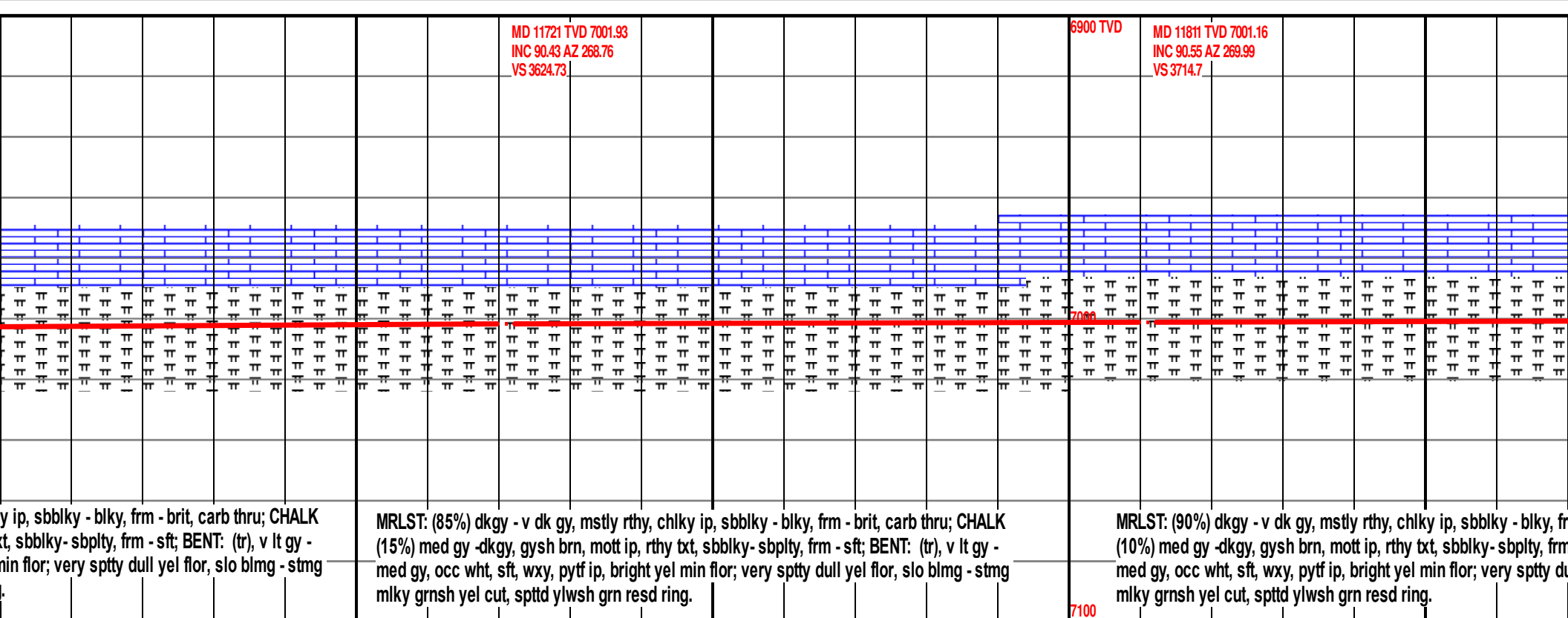


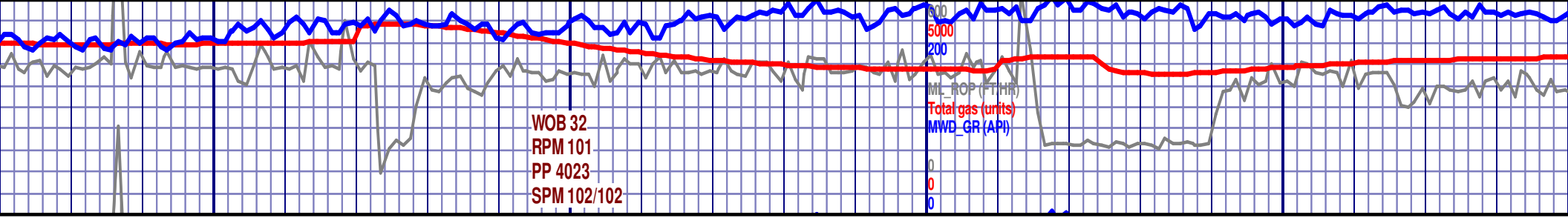






11650 11700 11750 11800 11850





11900

11950

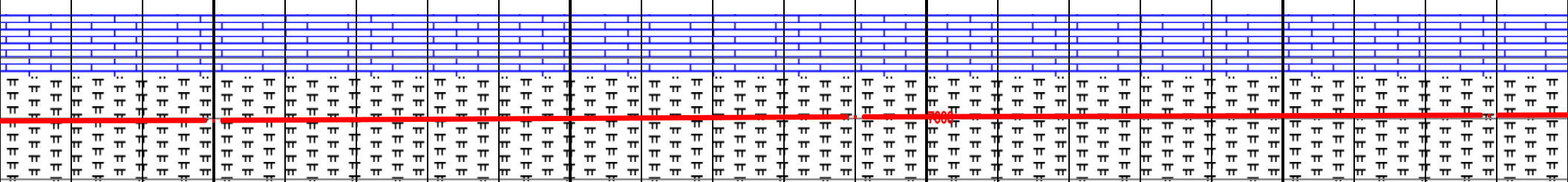
12000

12050

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VS 3803.62

MD 11990 TVD 6999.6D  
INC 90.46 AZ 271.38  
VS 3893.49

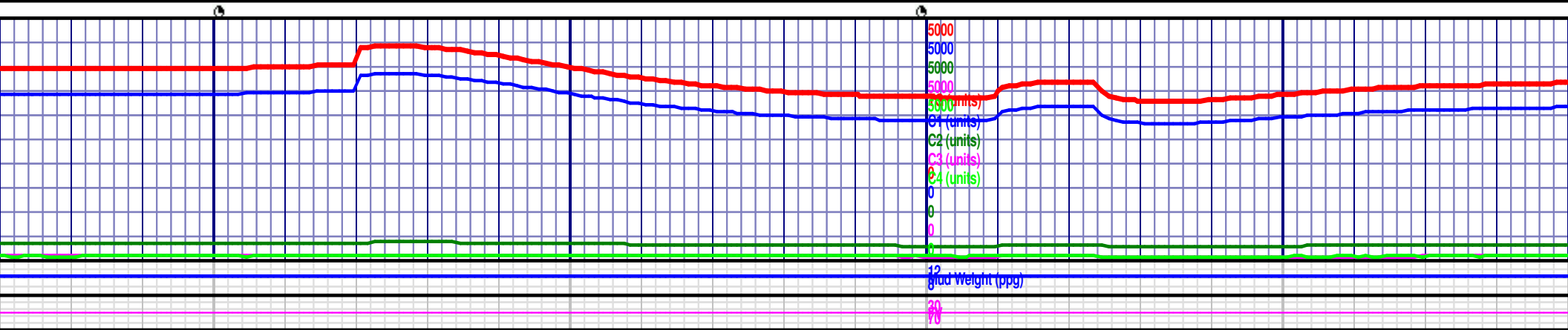
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INC 90.49 AZ  
VS 3982.31

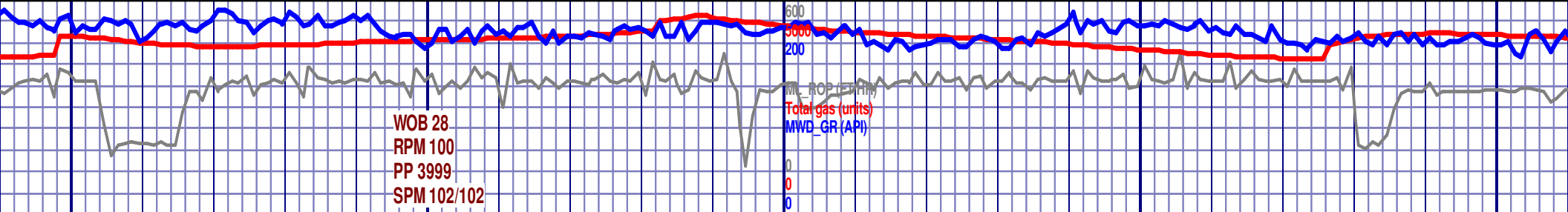


m - brit, carb thru; CHALK  
a - sft; BENT: (tr), v lt gy -  
dull yel flor, slo blmg - stmg

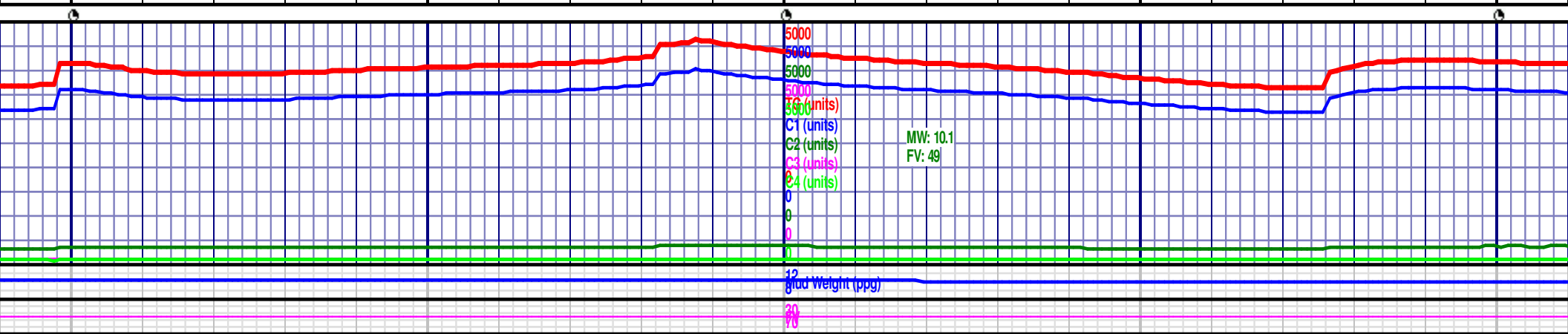
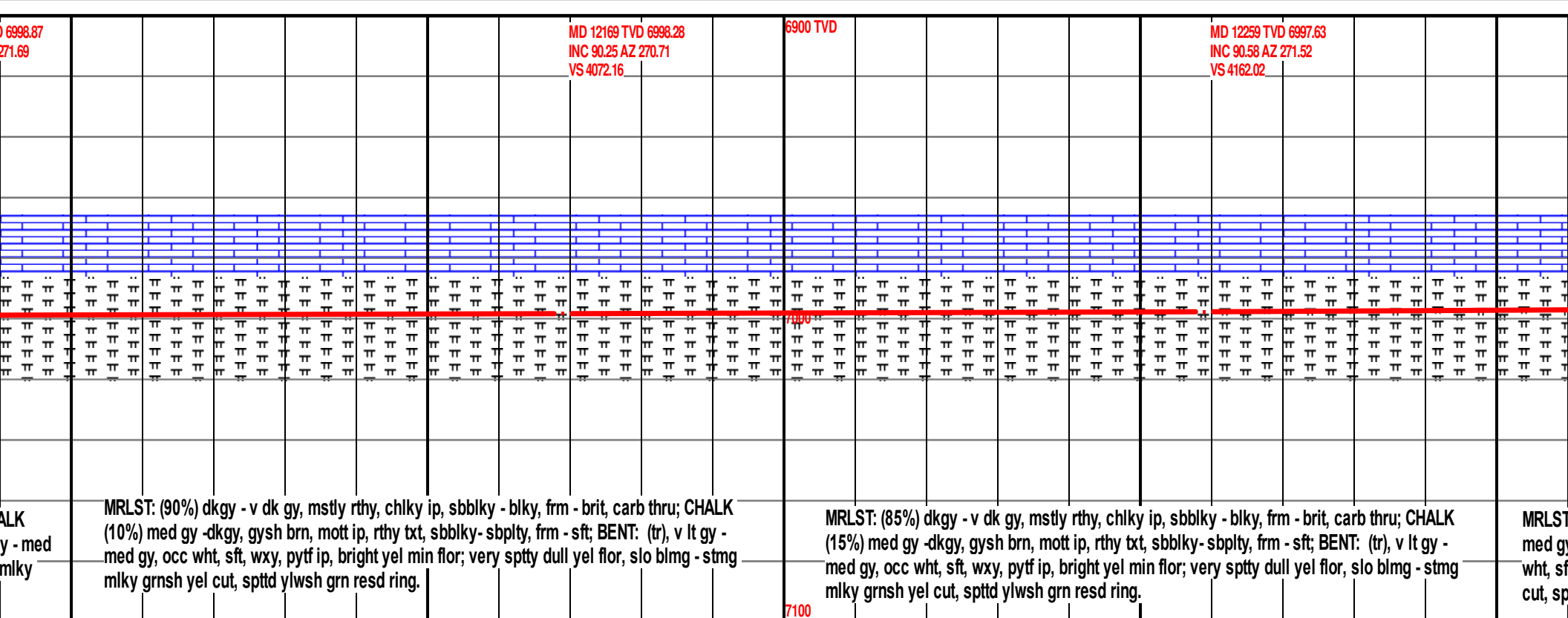
MRLST: (90%) dkgy - v dk gy, mstly rthy, chiky ip, sbblky - blkgy, frm - brit, carb thru; CHALK (10%)  
med gy -dkgy, gysh brn, mott ip, rthy txt, sbblky- sbply, frm - sft; BENT: (tr), v lt gy - med gy, occ  
wht, sft, wxy, pytf ip, bright yel min flor; very spty dull yel flor, slo blmg - stmg milky grnsh yel cut,  
spttd ylwsh grn resd ring.

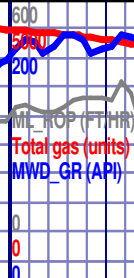
MRLST: (90%) dkgy - v dk gy, mstly rthy, chiky ip, sbblky - blkgy, frm - brit, carb thru; CHALK (10%)  
med gy -dkgy, gysh brn, mott ip, rthy txt, sbblky- sbply, frm - sft; BENT: (tr), v lt gy - med gy, occ  
wht, sft, wxy, pytf ip, bright yel min flor; very spty dull yel flor, slo blmg - stmg milky grnsh yel cut,  
spttd ylwsh grn resd ring.



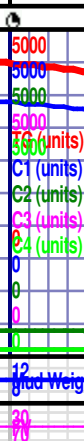
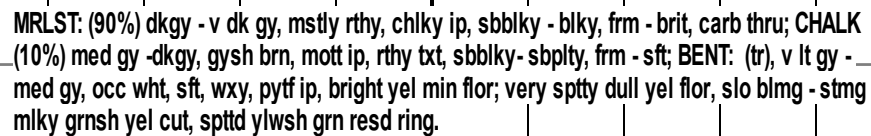


12100 12150 12200 12250 12300





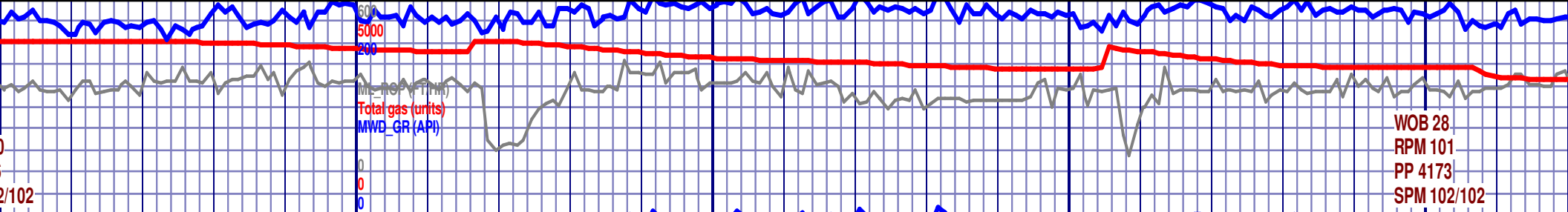
MD 12438 TVD 6995.71  
INC 90.58 AZ 269.81  
VS 4340.88



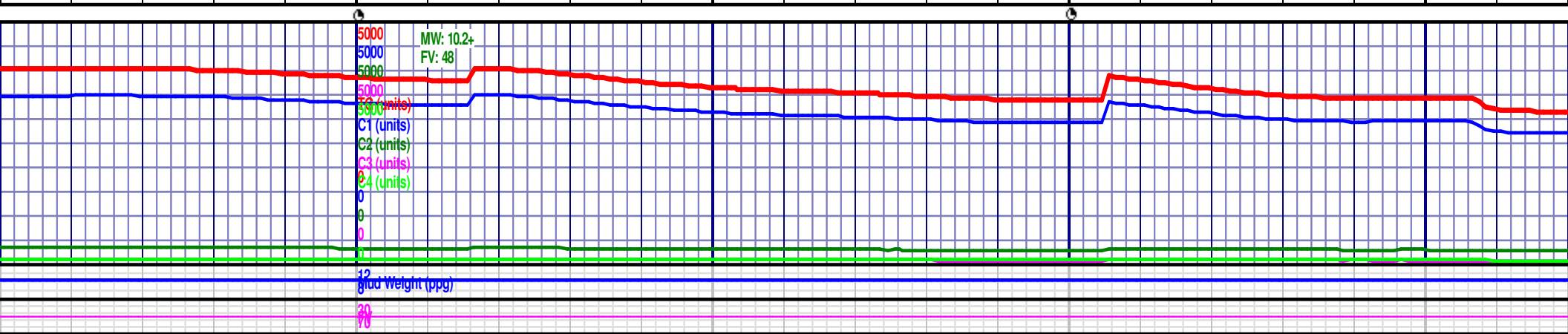
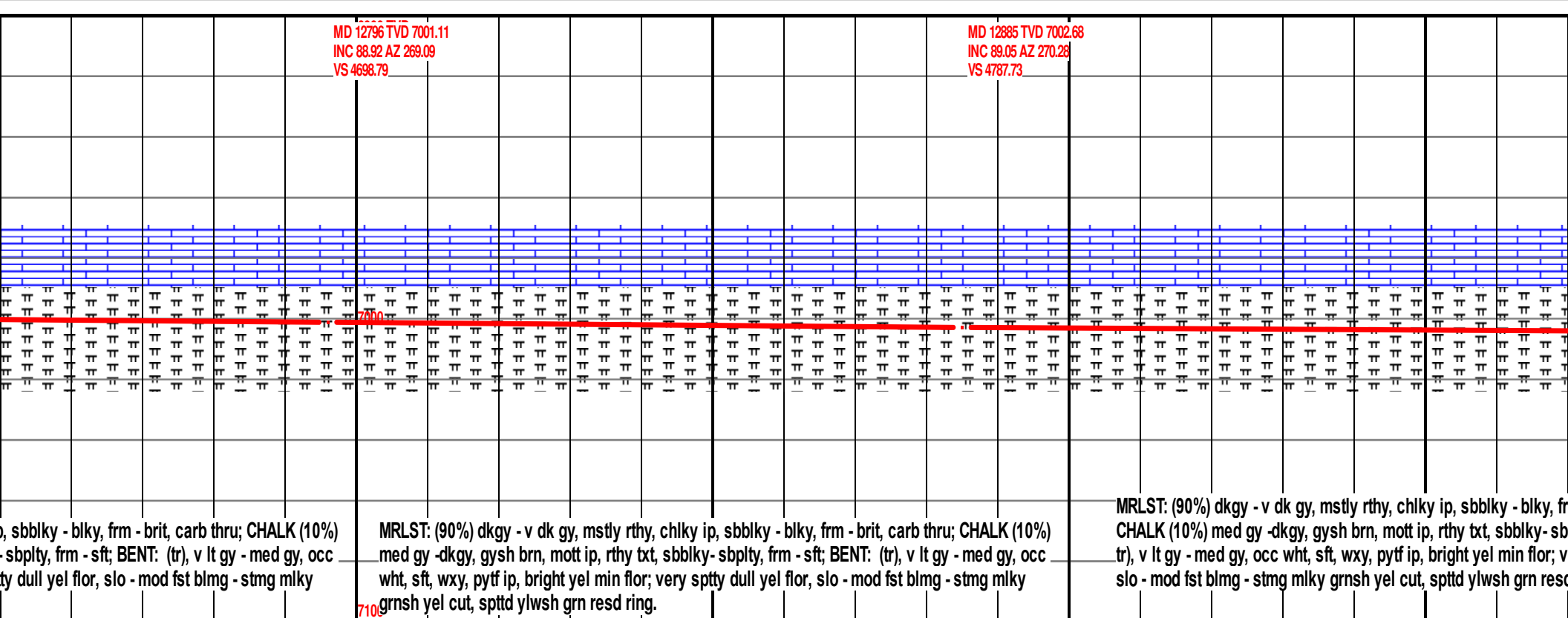
MW: 10.2  
FV: 48

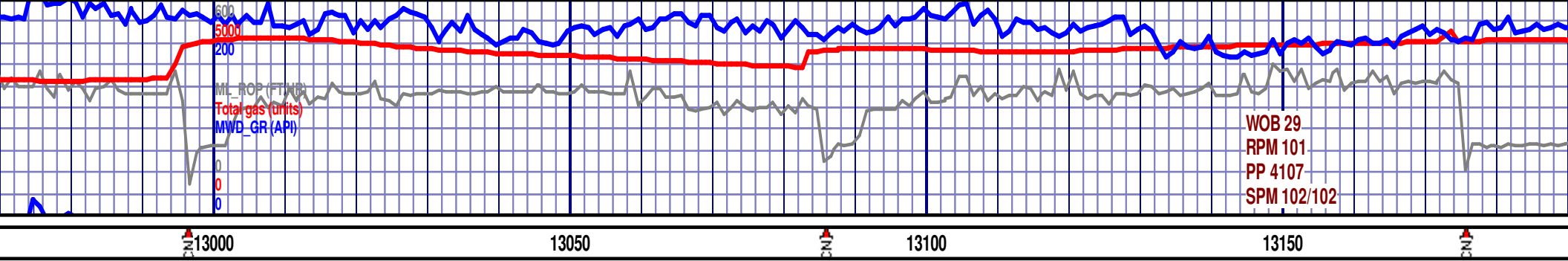






12800 12850 12900 12950



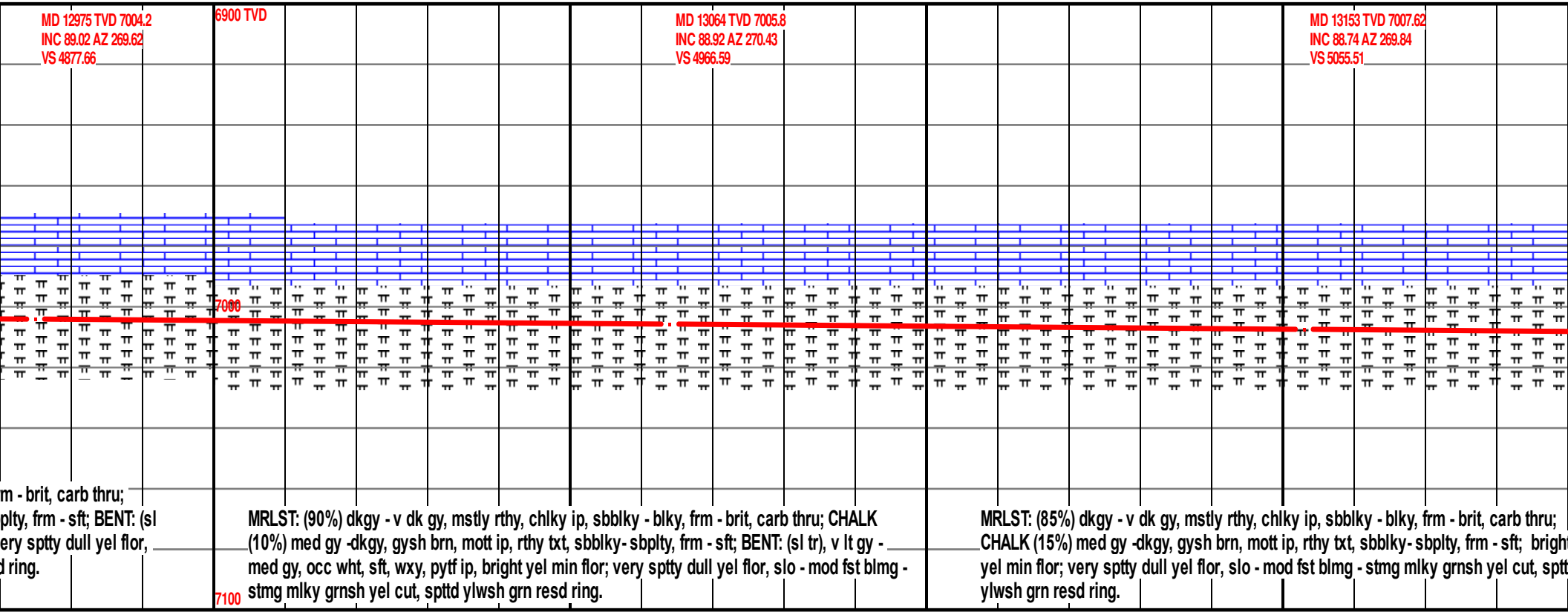


MD 12975 TVD 7004.2  
INC 89.02 AZ 269.62  
VS 4877.66

6900 TVD

MD 13064 TVD 7005.8  
INC 88.92 AZ 270.43  
VS 4966.59

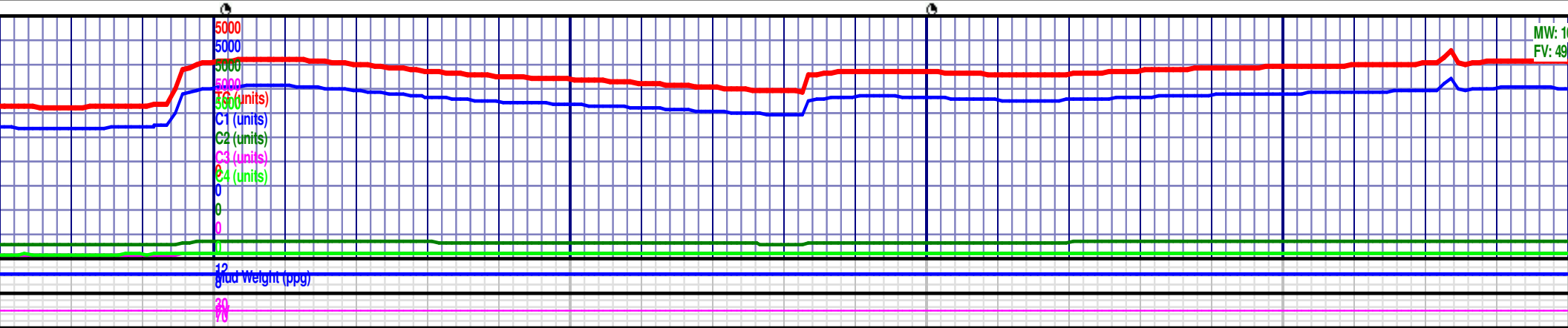
MD 13153 TVD 7007.62  
INC 88.74 AZ 269.84  
VS 5055.51

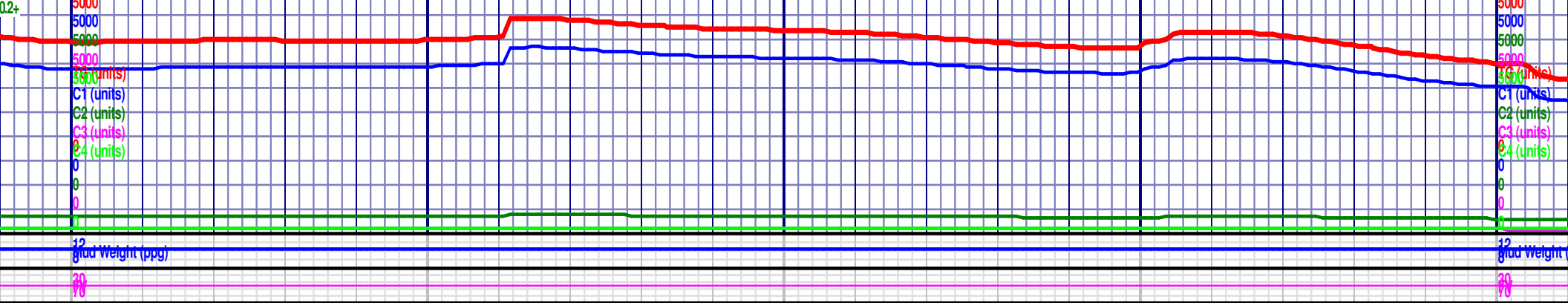
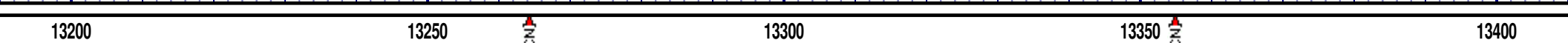


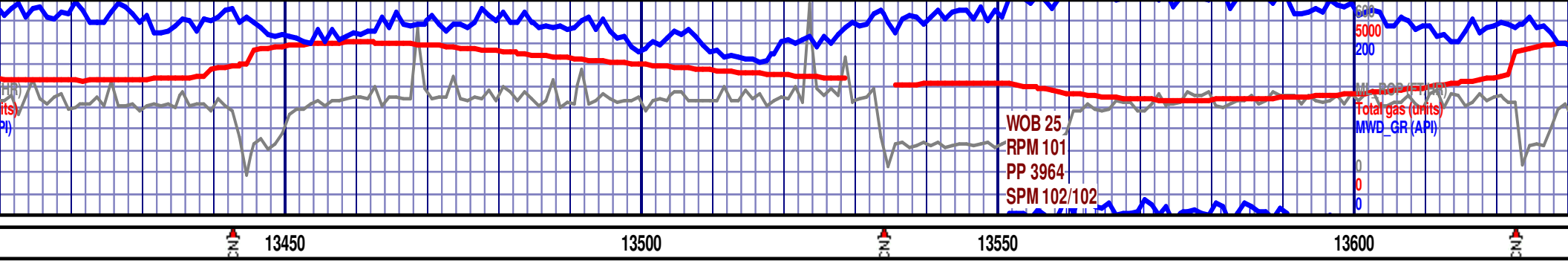
m - brit, carb thru;  
silty, frm - sft; BENT: (sl  
very sppty dull yel flor,  
d ring.

MRLST: (90%) dkgy - v dk gy, mstly rthy, chlky ip, sbblky - blkky, frm - brit, carb thru; CHALK  
(10%) med gy -dkgy, gysh brn, mott ip, rthy txt, sbblky-sbply, frm - sft; BENT: (sl tr), v lt gy -  
med gy, occ wht, sft, wxy, pytf ip, bright yel min flor; very sppty dull yel flor, slo - mod fst blmg -  
stmg milky grnsh yel cut, spptd ylwsh grn resd ring.

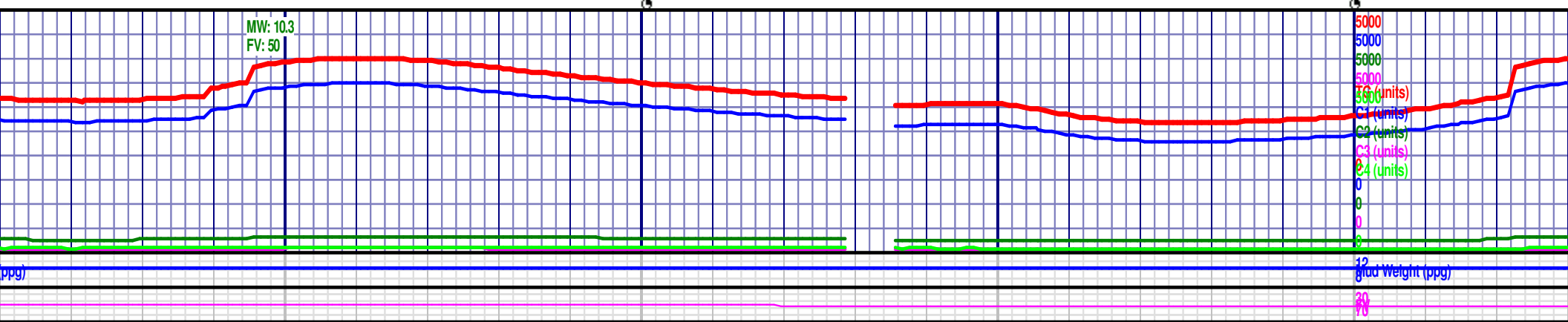
MRLST: (85%) dkgy - v dk gy, mstly rthy, chlky ip, sbblky - blkky, frm - brit, carb thru;  
CHALK (15%) med gy -dkgy, gysh brn, mott ip, rthy txt, sbblky-sbply, frm - sft; bright  
yel min flor; very sppty dull yel flor, slo - mod fst blmg - stmg milky grnsh yel cut, spptd  
ylwsh grn resd ring.

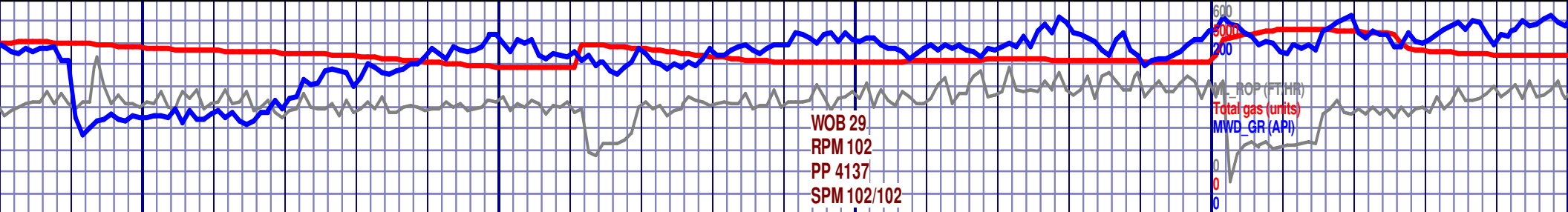






<p>MD 13422 TVD 7011.12 INC 89.45 AZ 271.44 VS 5324.21</p> <p>MRLST: (90%) dkgy - v dk gy, mstly rthy, chlky ip, sbblky - blk, frm - brit, carb thru; CHALK (10%) med gy -dkgy, gysh brn, mott ip, rthy txt, sbblky-sbply, frm - sft; BENT: (sl tr), v lt gy - med gy, occ wht, sft, wxy, pytf ip, bright yel min flor; very sppty dull yel flor, slo - mod fst blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd ring.</p>	<p>MD 13512 TVD 7012.08 INC 89.32 AZ 272.35 VS 5413.99</p> <p>MRLST: (90%) dkgy - v dk gy, mstly rthy, chlky ip, sbblky - blk, frm - brit, carb thru; CHALK (10%) med gy -dkgy, gysh brn, mott ip, rthy txt, sbblky-sbply, frm - sft; BENT: (tr), v lt gy - med gy, occ wht, sft, wxy, pytf ip, bright yel min flor; very sppty dull yel flor, mod fst blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd ring.</p>	<p>MD 13601 TVD 7013.52 INC 88.83 AZ 272.23 VS 5502.72</p> <p>MRLST: (75%) dkgy - v dk gy, mstly rthy, chlky ip, sbblky - blk, frm - brit, carb thru; CHALK (25%) med gy -dkgy, gysh brn, mott ip, rthy txt, sbblky-sbply, frm - sft; BENT: (tr), v lt gy - med gy, occ wht, sft, wxy, pytf ip, bright yel min flor; very sppty dull yel flor, mod fst blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd ring.</p>
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13650

13700

13750

13800

13850

MD 13691 TVD 7015.33  
INC 88.86 AZ 273.18  
VS 5592.39

MD 13780 TVD 7017.15  
INC 88.8 AZ 273.03  
VS 5681.01

6900 TVD

7/1

gy, mstly rthy, chiky ip, sbblky - blk, frm - brit, carb thru; CHALK  
brn, mott ip, rthy txt, sbblky - sbplty, frm - sft; BENT: (tr), v lt gy - med  
ip, bright yel min flor; very sppty dull yel flor, slo - mod fst blmg -  
spttd ylwsh grn resd ring.

MRLST: (85%) dkgy - v dk gy, mstly rthy, chiky ip, sbblky - blk, frm - brit, carb thru; CHALK (15%)  
med gy -dkgy, gysh brn, mott ip, rthy txt, sbblky - sbplty, frm - sft; BENT: (tr), v lt gy - med gy, occ  
wht, sft, wxy, pytf ip, bright yel min flor; very sppty dull yel flor, slo - mod fst blmg - stmg milky  
grnsh yel cut, spttd ylwsh grn resd ring.

MRLST: (90%) dkgy - v dk gy, mstly rthy, chiky  
med gy -dkgy, gysh brn, mott ip, rthy txt, sbblky  
occ wht, sft, wxy, pytf ip, bright yel min flor; v  
milky grnsh yel cut, spttd ylwsh grn resd ring.

7100

5000

5000

5000

5000

5000

5000

5000

5000

5000

5000

5000

5000

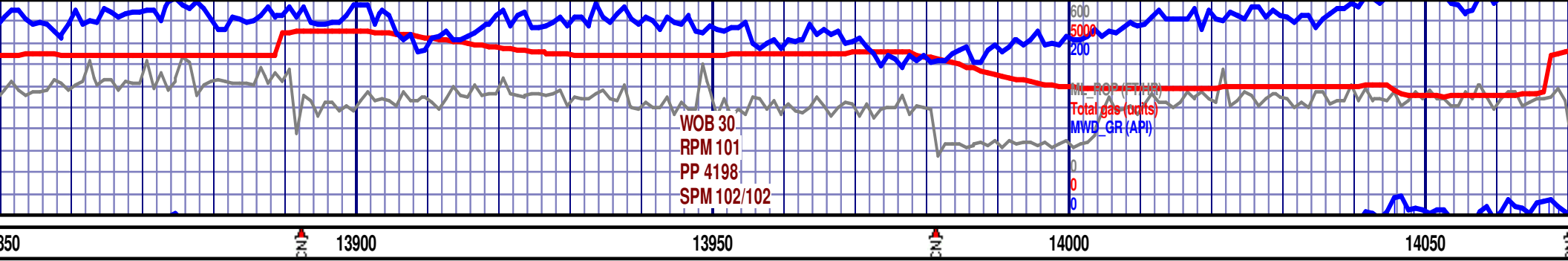
5000

MW: 10

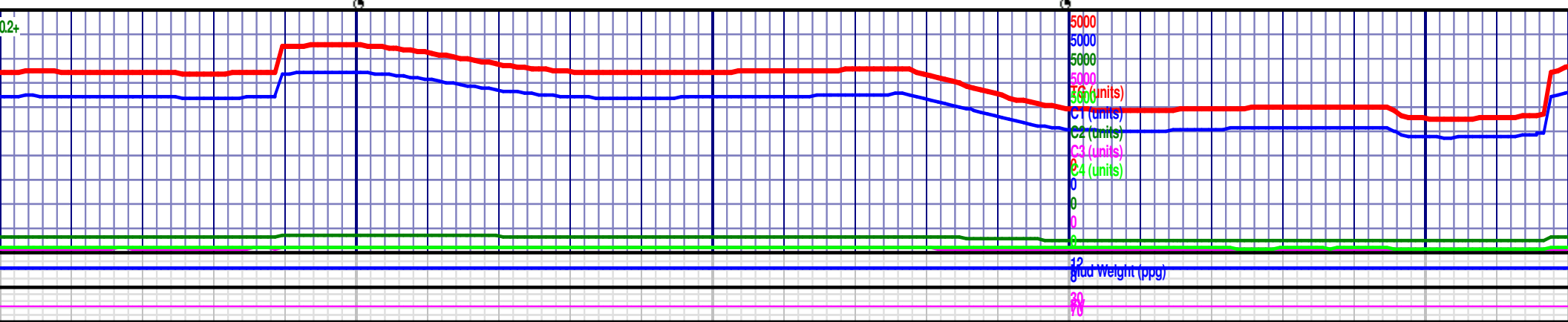
FV: 50

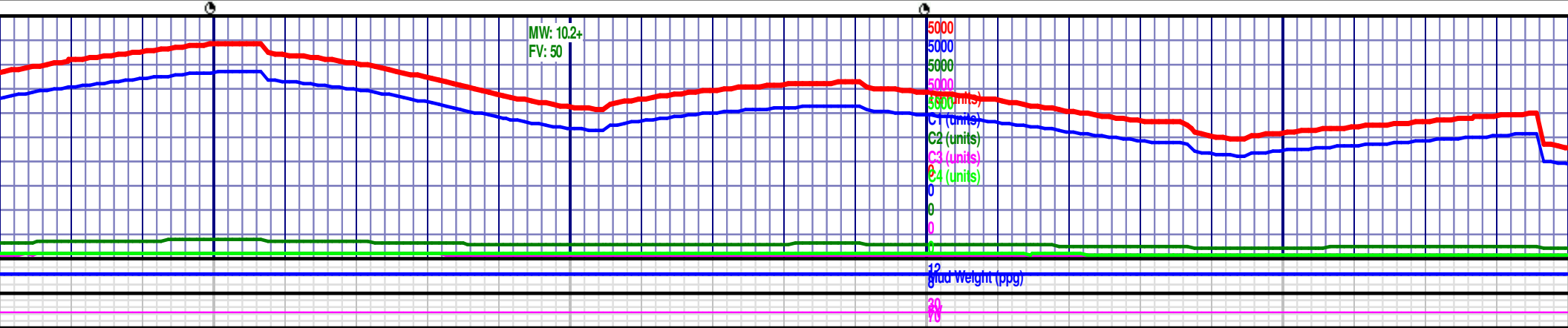
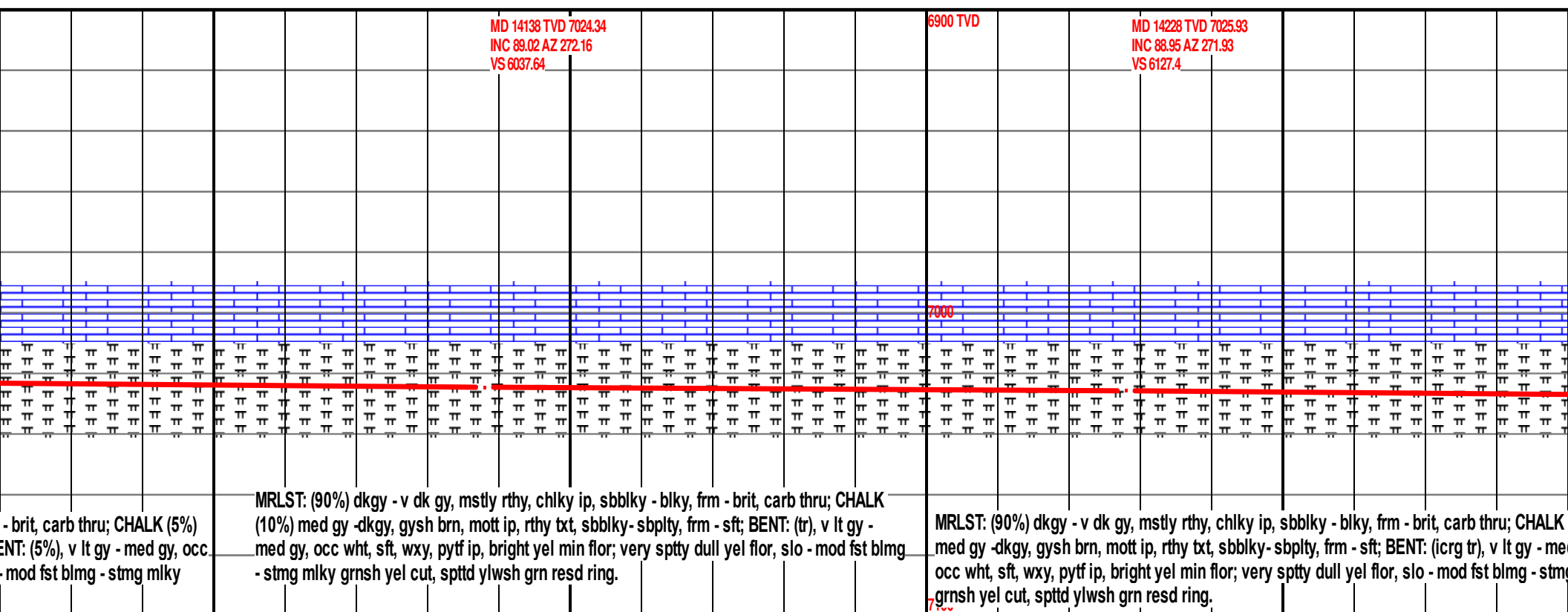
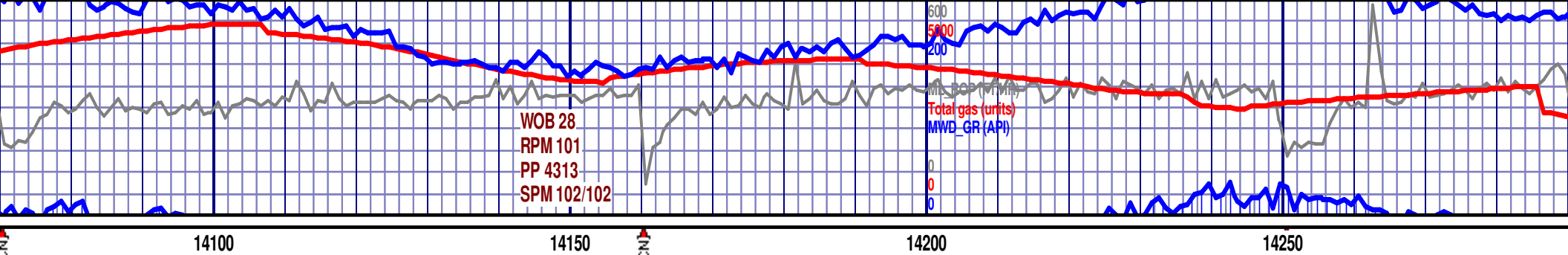
Fluid Weight (ppg)

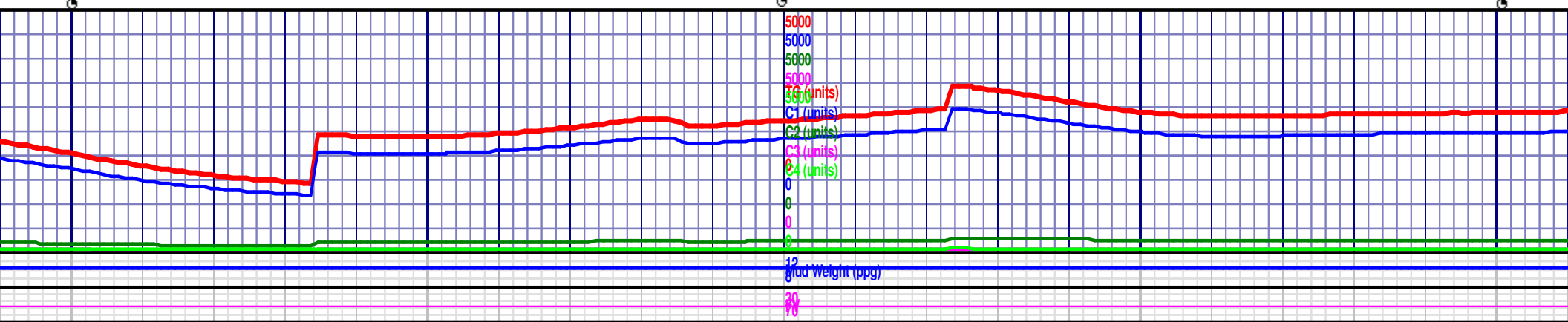
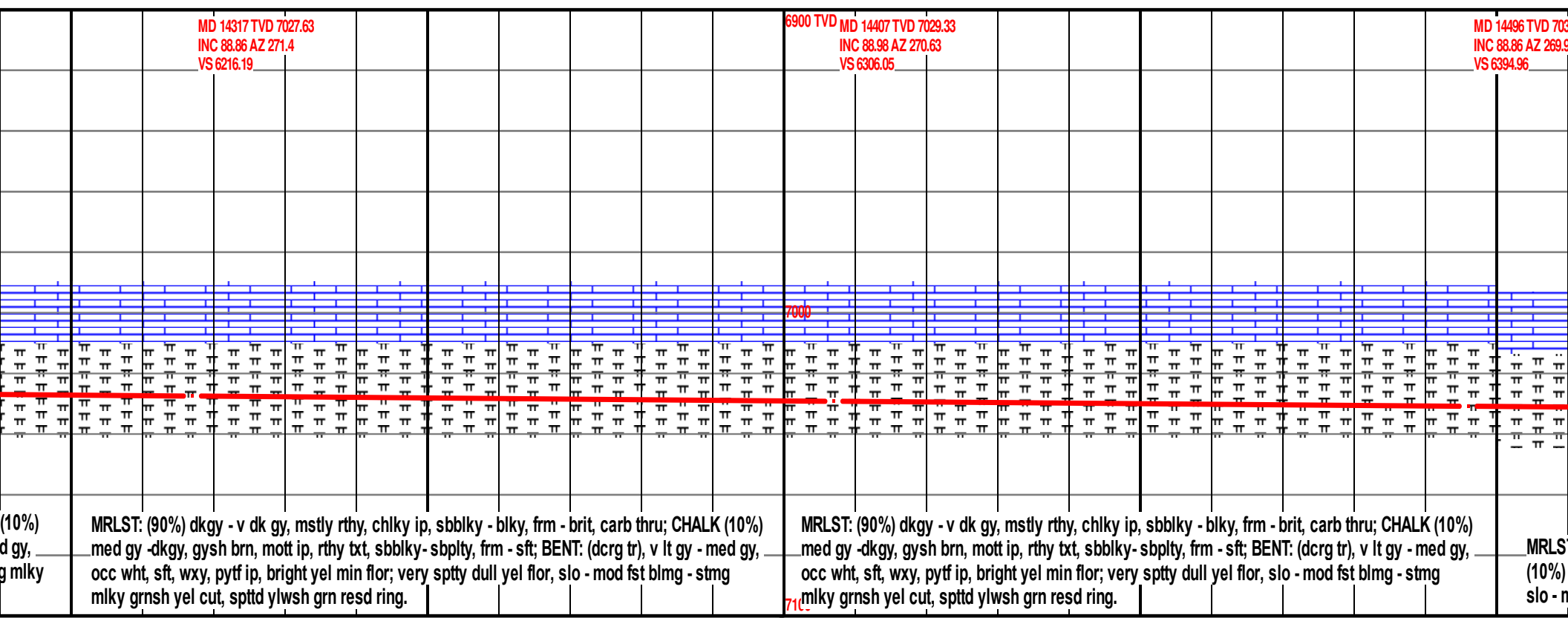
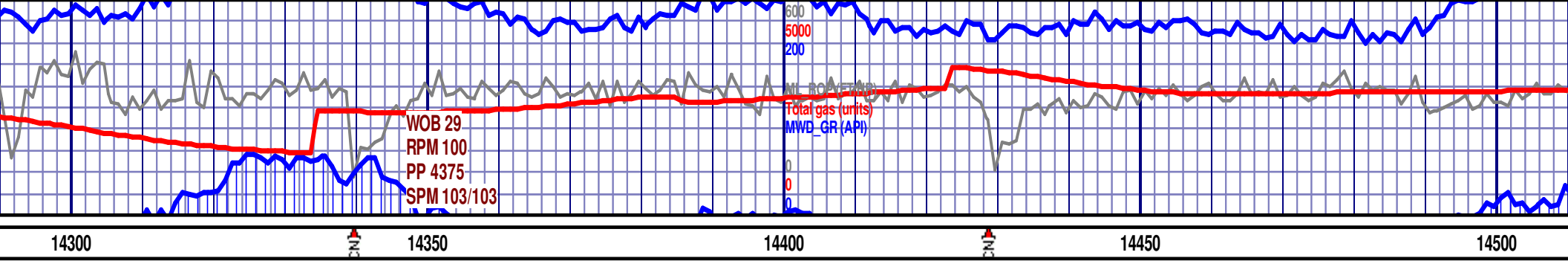
80



<p>MD 13870 TVD 7018.97 INC 88.89 AZ 272.98 VS 5770.64</p> <p>ip, sbblky - blk, frm - brit, carb thru; CHALK (10%) ky-sbply, frm - sft; BENT: (tr dcrg), v lt gy - med gy, ery sptty dull yel flor, slo - mod fst blmg - stmg</p>	<p>MD 13959 TVD 7020.78 INC 88.77 AZ 273.01 VS 5859.28</p> <p>MRLST: (90%) dkgy - v dk gy, mstly rthy, chlky ip, sbblky - blk, frm - brit, carb thru; CHALK (8%) med gy -dkgy, gysh brn, mott ip, rthy txt, sbblky- sbply, frm - sft; BENT: (2%), v lt gy - med gy, occ wht, sft, wxy, pytf ip, bright yel min flor; very sptty dull yel flor, slo - mod fst blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd ring.</p>	<p>6900 TVD</p> <p>MD 14049 TVD 7022.67 INC 88.83 AZ 272.67 VS 5948.93</p> <p>MRLST: (90%) dkgy - v dk gy, mstly rthy, chlky ip, sbblky - blk, frm - brit, carb thru; CHALK (8%) med gy -dkgy, gysh brn, mott ip, rthy txt, sbblky- sbply, frm - sft; BENT: (2%), v lt gy - med gy, occ wht, sft, wxy, pytf ip, bright yel min flor; very sptty dull yel flor, slo - mod fst blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd ring.</p>
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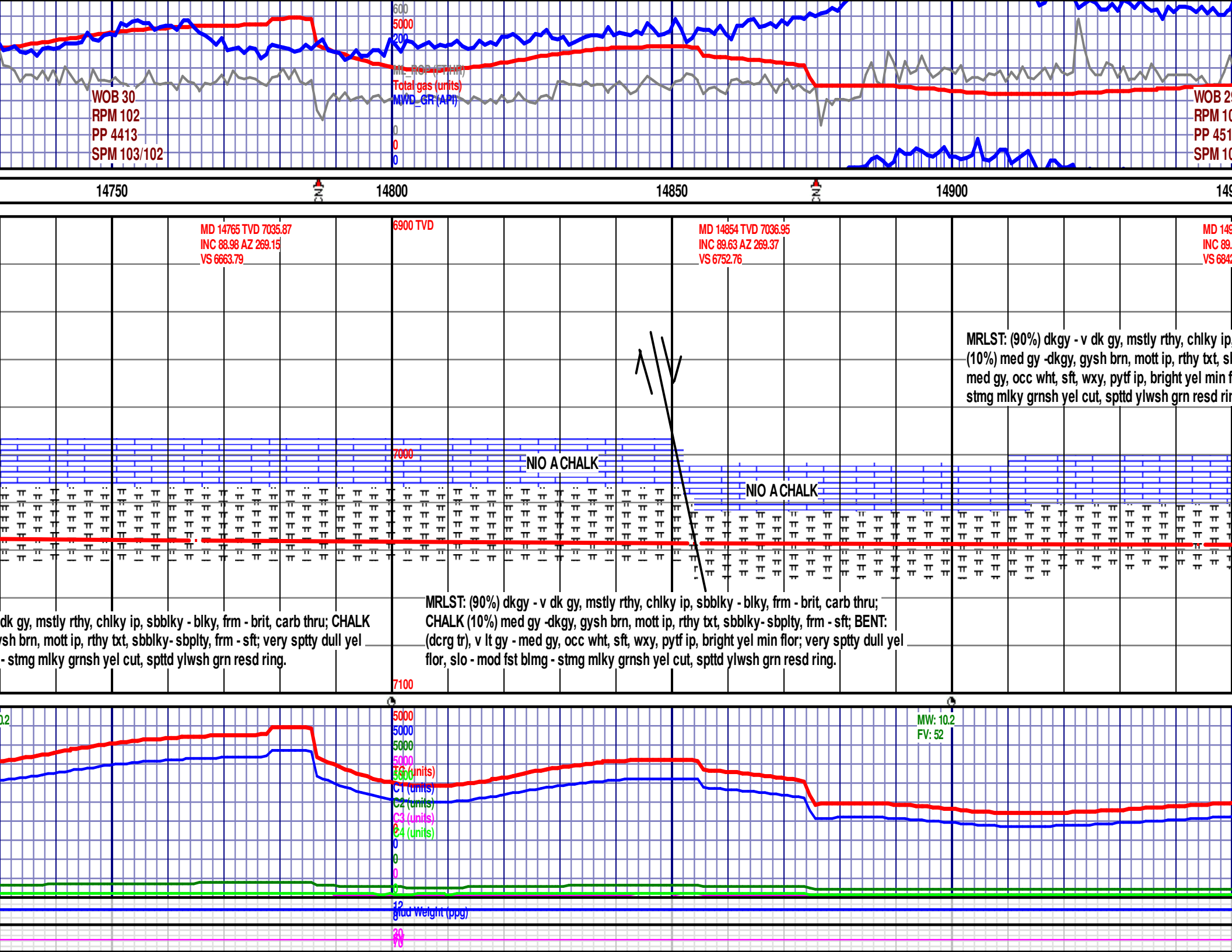


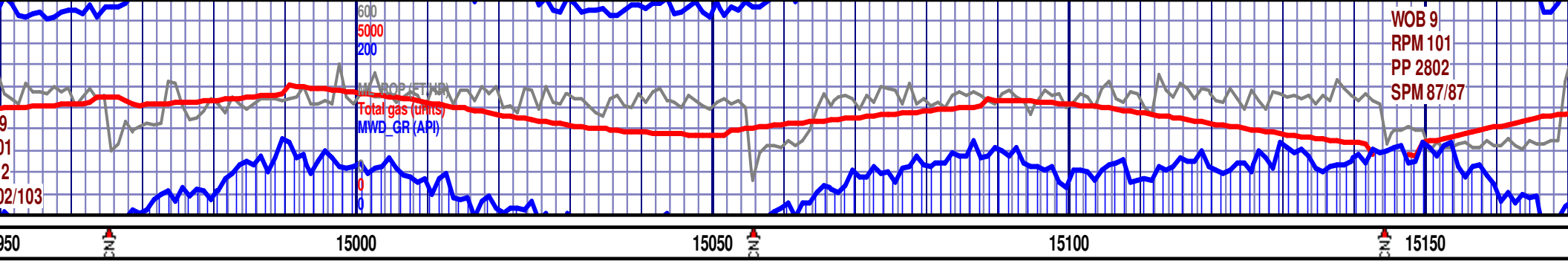












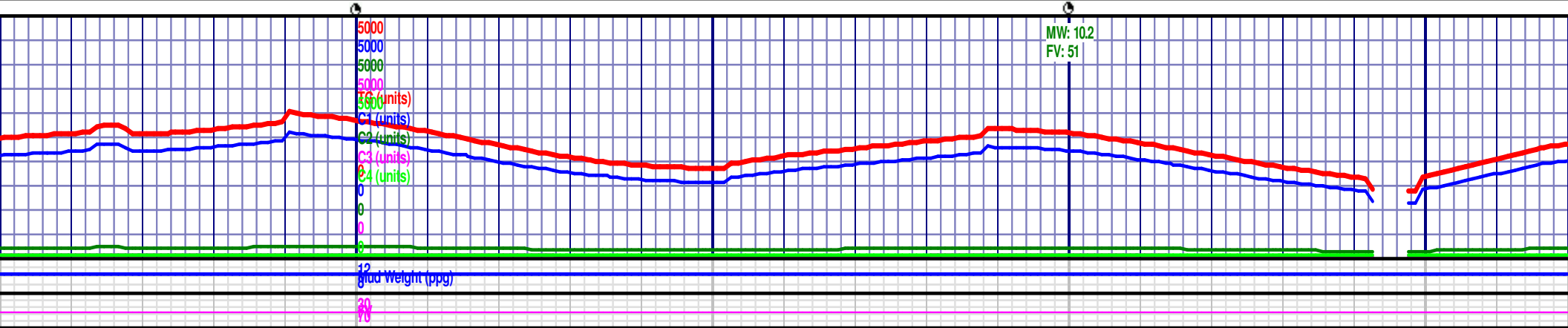
44 TVD 7037.53  
63 AZ 270  
2.71

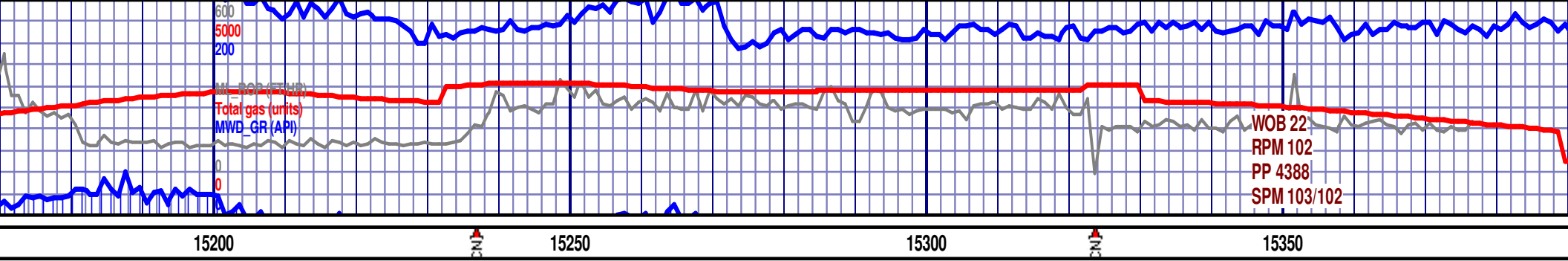
6900 TVD

MD 15033 TVD 7038.16  
INC 89.57 AZ 271.07  
VS 6931.62

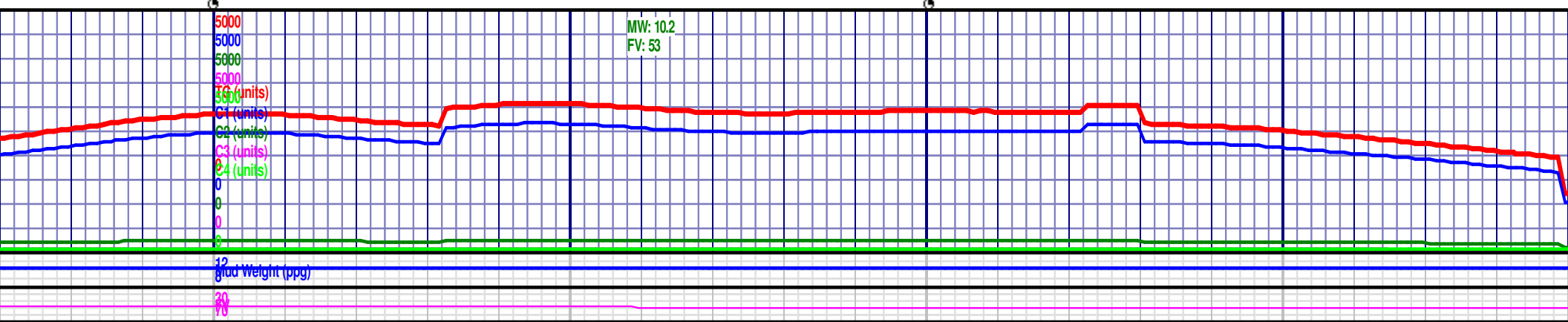
MRLST: (85%) dkgy - v dk gy, mstly rthy, chiky ip, sbblky - blkgy, frm - brit, carb thru; CHALK (15%) med gy - dkgy, gysh brn, mott ip, rthy txt, sbblky - sbply, frm - sft; OCC BENT: v lt gy - med gy, occ wht, sft, wxy, pytf ip, bright yel min flor; very sppty dull yel flor, slo - mod fst blmg - stmg mlky grnsh yel cut, spptd ylwsh grn resd ring.

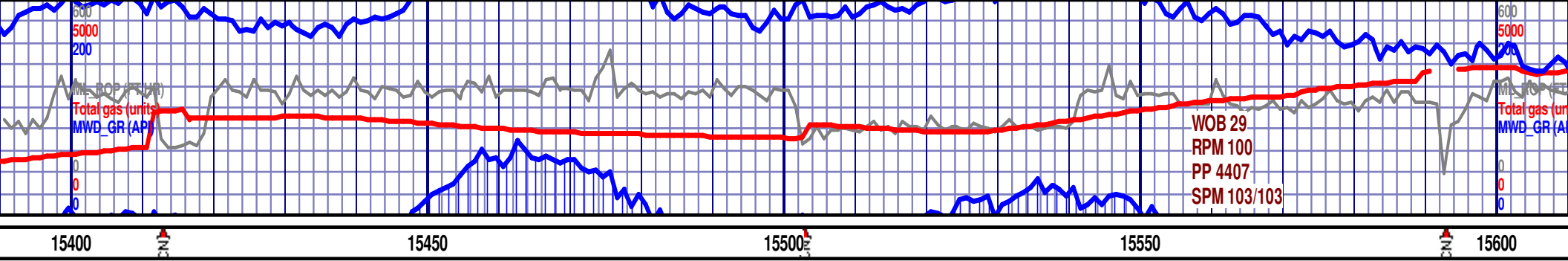
MRLST: (90%) dkgy - v dk gy, mstly rthy, chiky ip, sbblky - blkgy, frm - brit, carb thru; CHALK (10%) med gy - dkgy, gysh brn, mott ip, rthy txt, sbblky - sbply, frm - sft; OCC BENT: v lt gy - med gy, occ wht, sft, wxy, pytf ip, bright yel min flor; very sppty dull yel flor, slo - mod fst blmg - stmg mlky grnsh yel cut, spptd ylwsh grn resd ring.



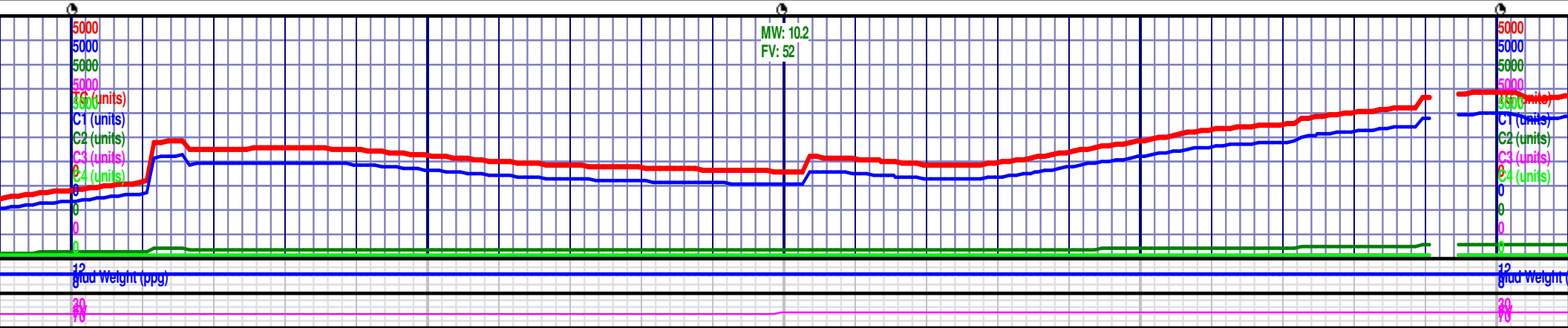


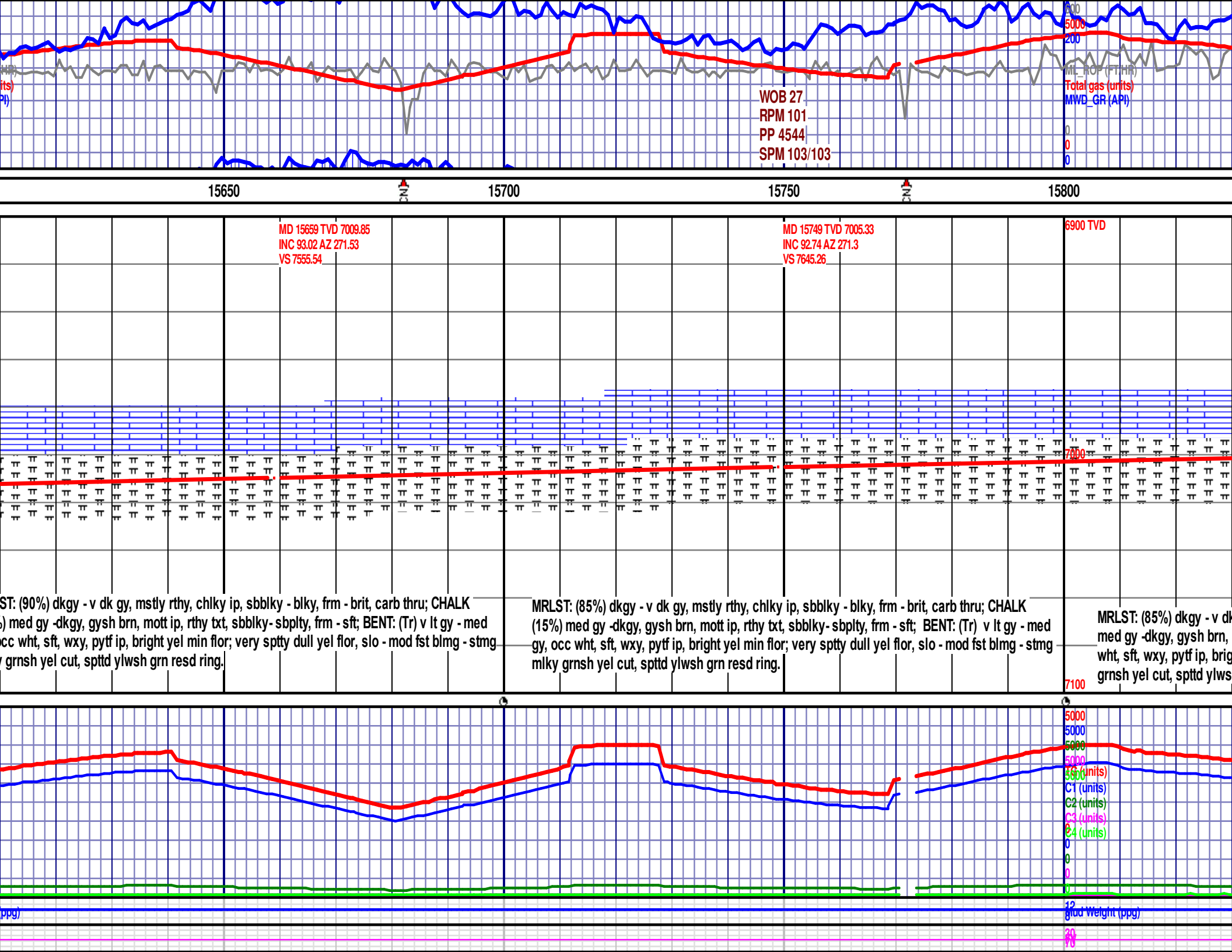
<p>6900 TVD</p> <p>MD 15212 TVD 7034.31 INC 92.89 AZ 271.65 VS 7110.23</p> <p>MRLST: (85%) dkgy - v dk gy, mstly rthy, chlky ip, sbblky - blk, frm - brit, carb thru; CHALK (15%) med gy -dkgy, gysh brn, mott ip, rthy txt, sbblky-sbply, frm - sft; OCC BENT: v lt gy - med gy, occ wht, sft, wxy, pytf ip, bright yel min flor; very sppty dull yel flor, slo - mod fst blmg - stmg mlky grnsh yel cut, spstd ylwsh grn resd ring.</p>	<p>MD 15302 TVD 7029.36 INC 93.42 AZ 271.93 VS 7199.89</p> <p>MRLST: (90%) dkgy - v dk gy, mstly rthy, chlky ip, sbblky - blk, frm - brit, carb thru; CHALK (10%) med gy -dkgy, gysh brn, mott ip, rthy txt, sbblky-sbply, frm - sft; BENT: (Tr) v lt gy - med gy, occ wht, sft, wxy, pytf ip, bright yel min flor; very sppty dull yel flor, slo - mod fst blmg - stmg mlky grnsh yel cut, spstd ylwsh grn resd ring.</p>
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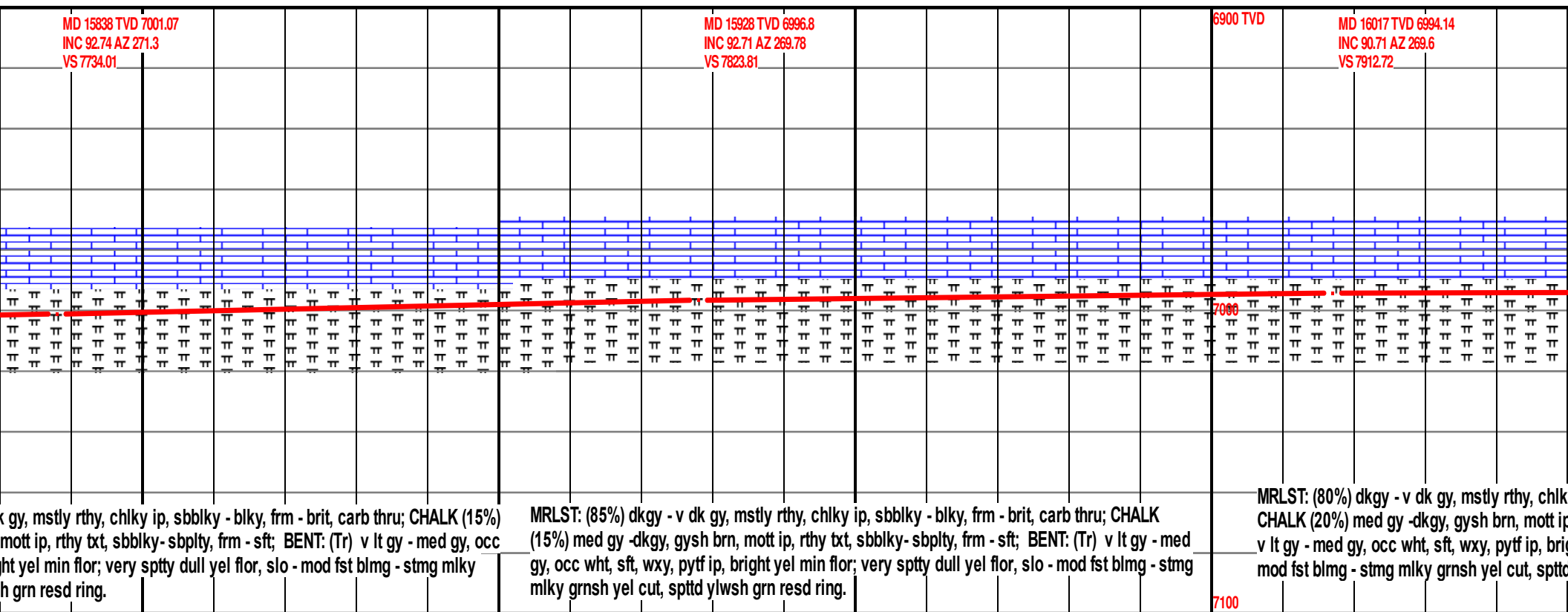


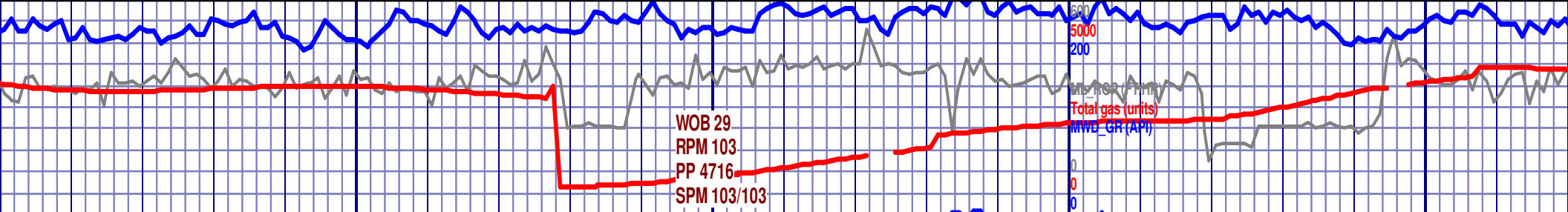


MD 15391 TVD 7024.05 INC 93.42 AZ 271.93 VS 7288.52		MD 15481 TVD 7019.04 INC 92.96 AZ 272.04 VS 7378.16		MD 15570 TVD 7014.47 INC 92.93 AZ 271.55 VS 7466.84	6900 TVD
LK - med g -	MRLST: (90%) dkgy - v dk gy, mstly rthy, chiky ip, sbblky - blky, frm - brit, carb thru; CHALK (10%) med gy -dkgy, gysh brn, mott ip, rthy txt, sbblky-sbply, frm - sft; BENT: (Tr) v lt gy - med gy, occ wht, sft, wxy, pytf ip, bright yel min flor; very sppty dull yel flor, slo - mod fst blmg - stmg mlky grnsh yel cut, spitd ylwsh grn resd ring.				MRL (10%) gy, o mlky

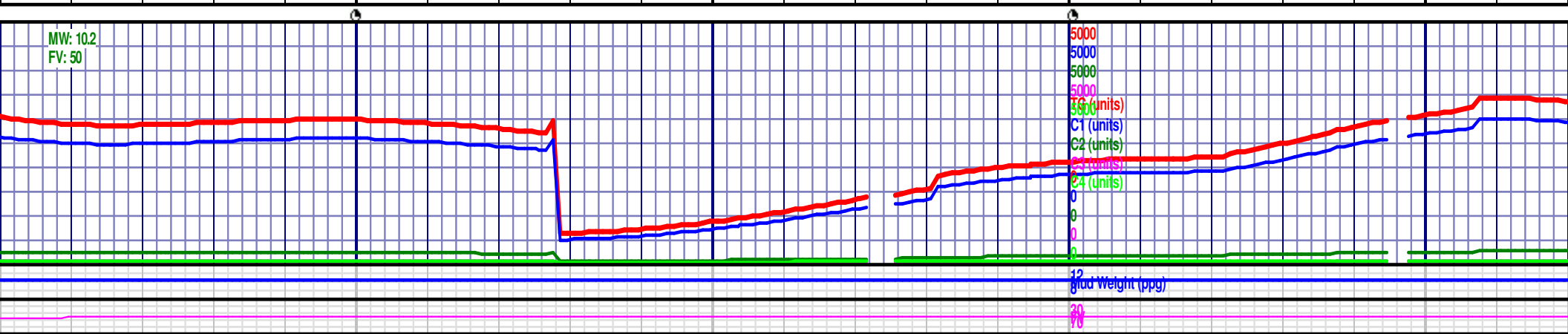
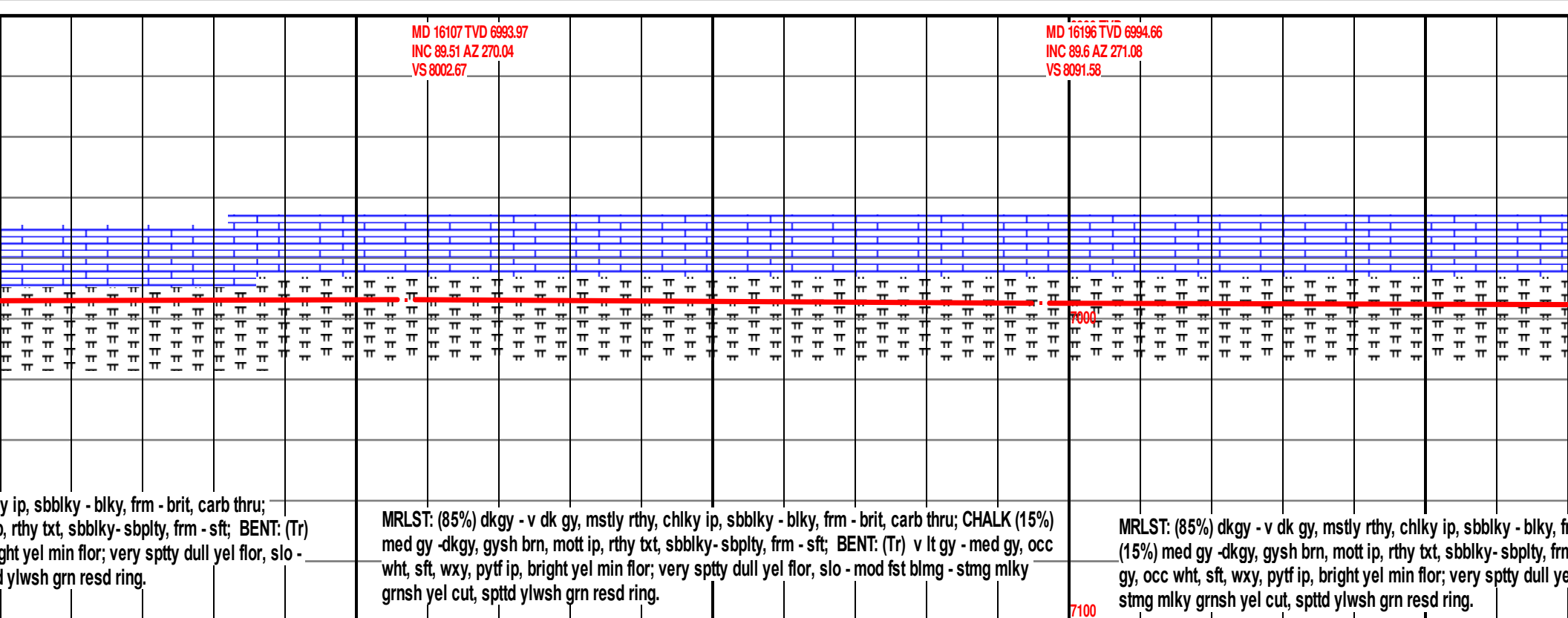




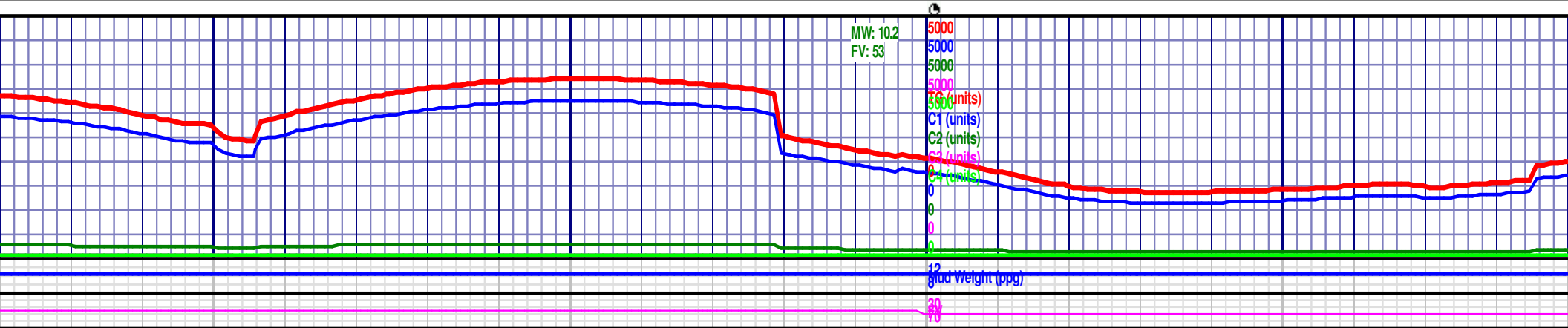
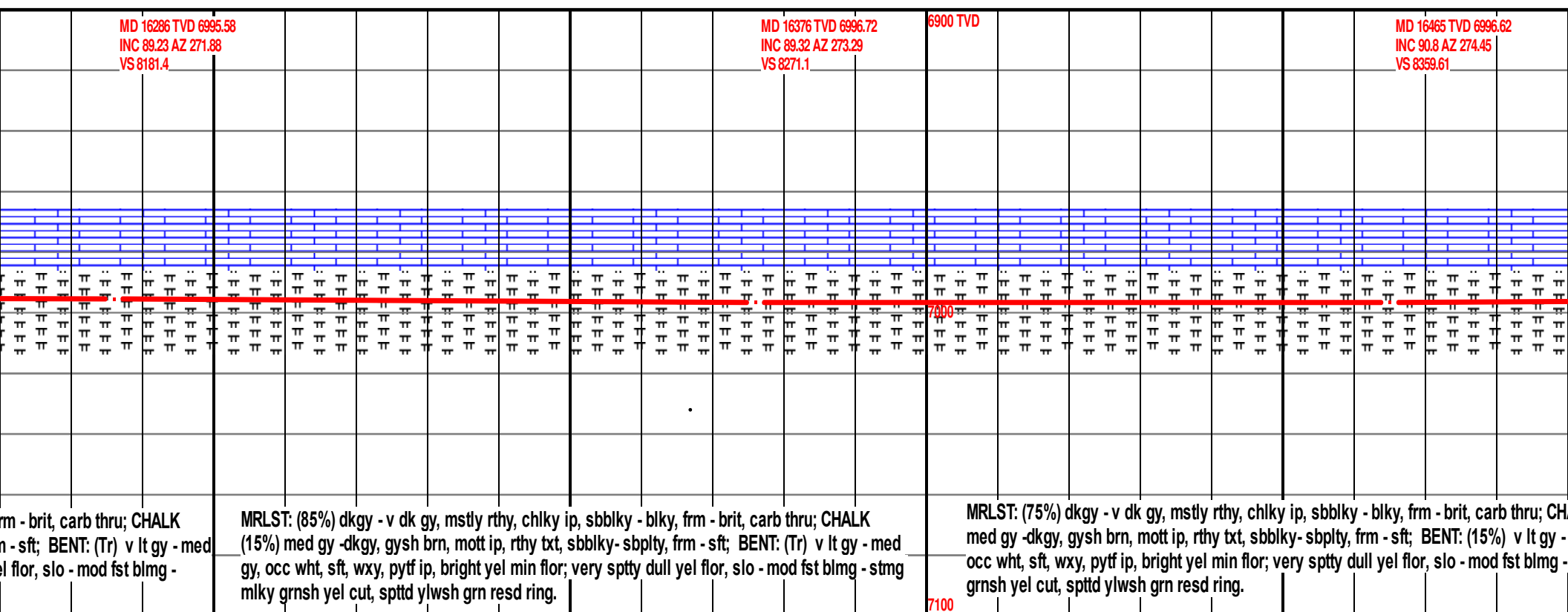
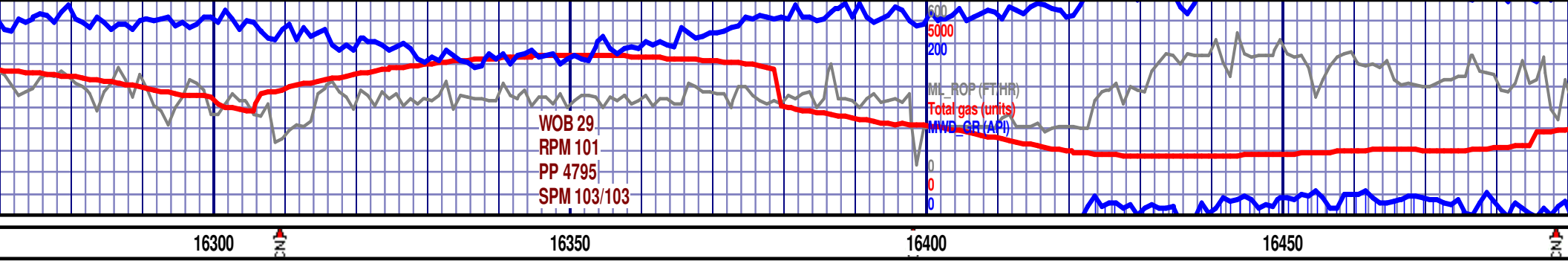


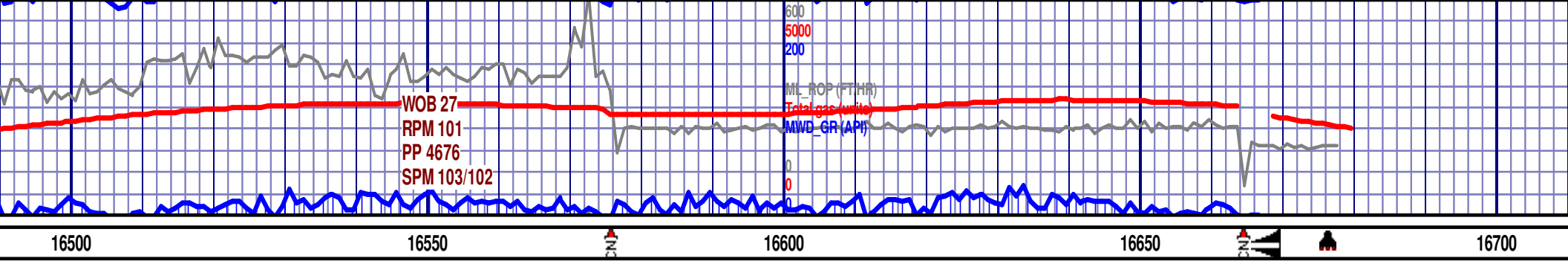


16050 16100 16150 16200 16250

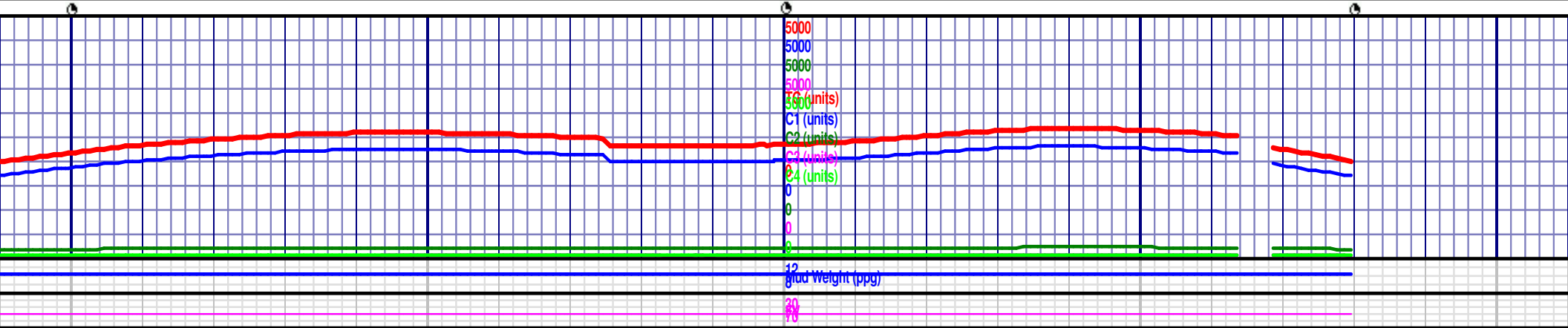


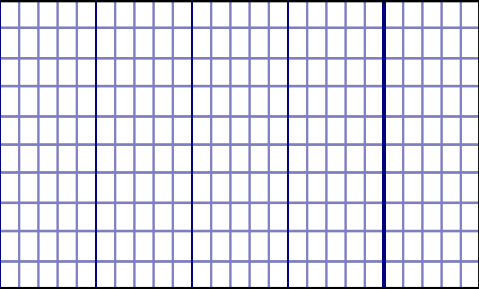






										MD 16554 TVD 6995.43 INC 90.74 AZ 275.9 VS 8447.9										6900 TVD										MD 16644 TVD 6994.94 INC 89.88 AZ 284.27 VS 8535.8										MD 16680 TVD 6995.01 INC 89.88 AZ 284.27 VS 8570.35										Final Su to 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HR.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					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Survey is Projected			
Information Top's			
	MD	TVD	SSD
Springs	7166'	6918'	-2083'
ra A Chalk	7219'	6950'	-2115'
ra B Chalk	7524'	7072'	-2237'
Toe	18984'	7098	-2263'
Thank You Goolsby Brothers & Assoc.			

