

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

**Well Name:** GOETZEL 34N-30C-M  
**API:** 051234419000  
**Location:** Section 29, T6N, R66W, Weld County, CO.  
**License Number:** \_\_\_\_\_ **Region:** Wattenberg  
**Spud Date:** November 09, 2017 **Drilling Completed:** November 12, 2017  
**Surface Coordinates:** NESW T6N, R66W Sec 29, 2,117' FSL & 2,053' FWL  
 LAT 40.457543 LONG -104.80414  
**Bottom Hole Coordinates:** SWSW T6N, R66W, Sec 30, 330' FSL & 510' FWL (EST)  
**Ground Elevation (ft):** 4,734' **K.B. Elevation (ft):** 4,754'  
**Logged Interval (ft):** 7,000' **To:** 15,615' **Total Depth (ft):** 15,615' DMTD  
**Formation:** Pierre Shales / Sands, Niobrara C/B Chalk Target  
**Type of Drilling Fluid:** OBM Surface, Curve & Lateral

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:** Larry Goolsby & Andrew Krueger  
**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



## Logs

PULSE MWD GR from 1,820'-15,602'

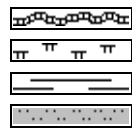
## Casing

9 5/8" Surface Casing set @ 1,807' MD  
5 1/2" Production Casing set @ 15,600' MD

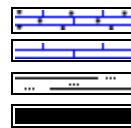
## Comments

- 1) Drilling Contractor: Precision Drilling, Rig #462  
Toolpusher: James Gardner
- 2) Company Man: Lovell Young & Tony Pershal
- 3) Mud Company : Reliable Drilling Fluids  
Engineer: Tim Pattison
- 4) Directional Drilling: Baker Huges Directional  
Rotary Steerable BHA
- 5) Gas Equipment: Pason Gas Analyzer (Spectrometer)

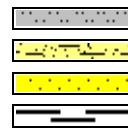
## ROCK TYPES



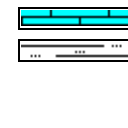
Bent  
Mrlst  
Shale  
Slstst



Carb chalk  
Chalk  
Slty sh  
Coal



Slst  
Arg\_ss  
Ss  
Carb sh



Ls  
Slty sh



## 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
	Anhy
	Arg
	Bent
	Coal

	Dol
	Gyp
	Ls
	Mrst
	Sltstrg
	Ssstrg

### TEXTURE

	Boundst
	Chalky
	Cryxln
	Earthy
	Finexln
	Grainst
	Lithogr
	Microxln
	Mudst
	Packst
	Wackest

## OTHER SYMBOLS

### POROSITY TYPE

	Earthy
	Fenest
	Fracture
	Inter
	Moldic
	Organic
	Pinpoint
	Vuggy

### SORTING

	Well
	Moderate
	Poor

### ROUNDING

	Rounded
	Subrnd
	Subang
	Angular

### OIL SHOWS

	Even
	Spotted
	Ques
	Dead
	Vspotty
	near even

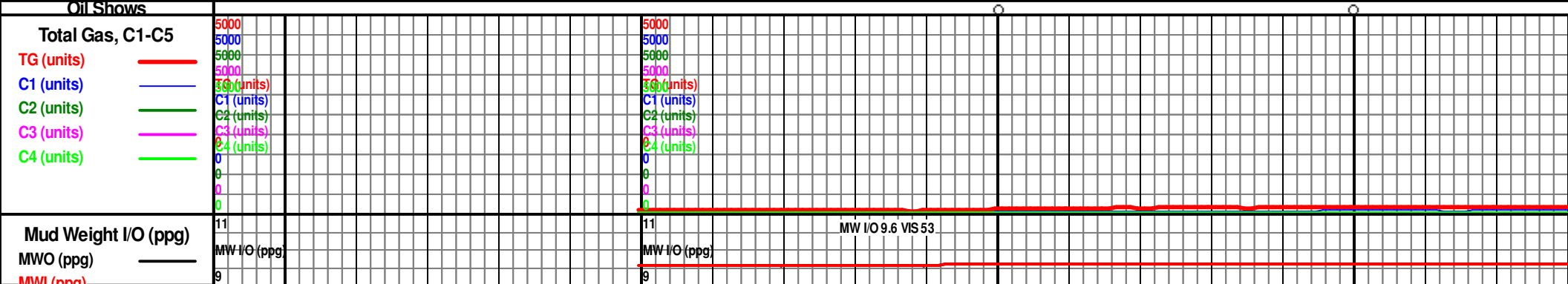
### INTERVALS

	Core
	Dst

### EVENTS

	Casing shoe_hzl
	Trip_point_1
	Off bottom
	conn
	Survey(mwd)
	Survey(red)
	bit

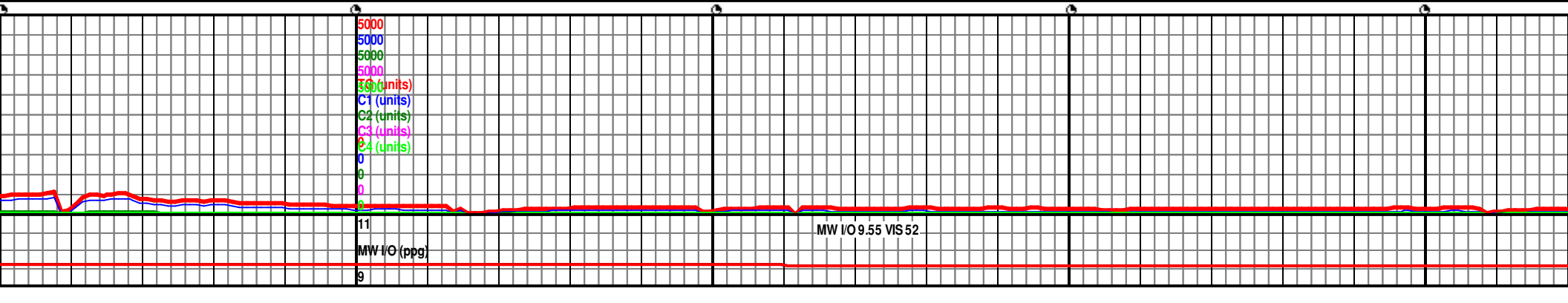
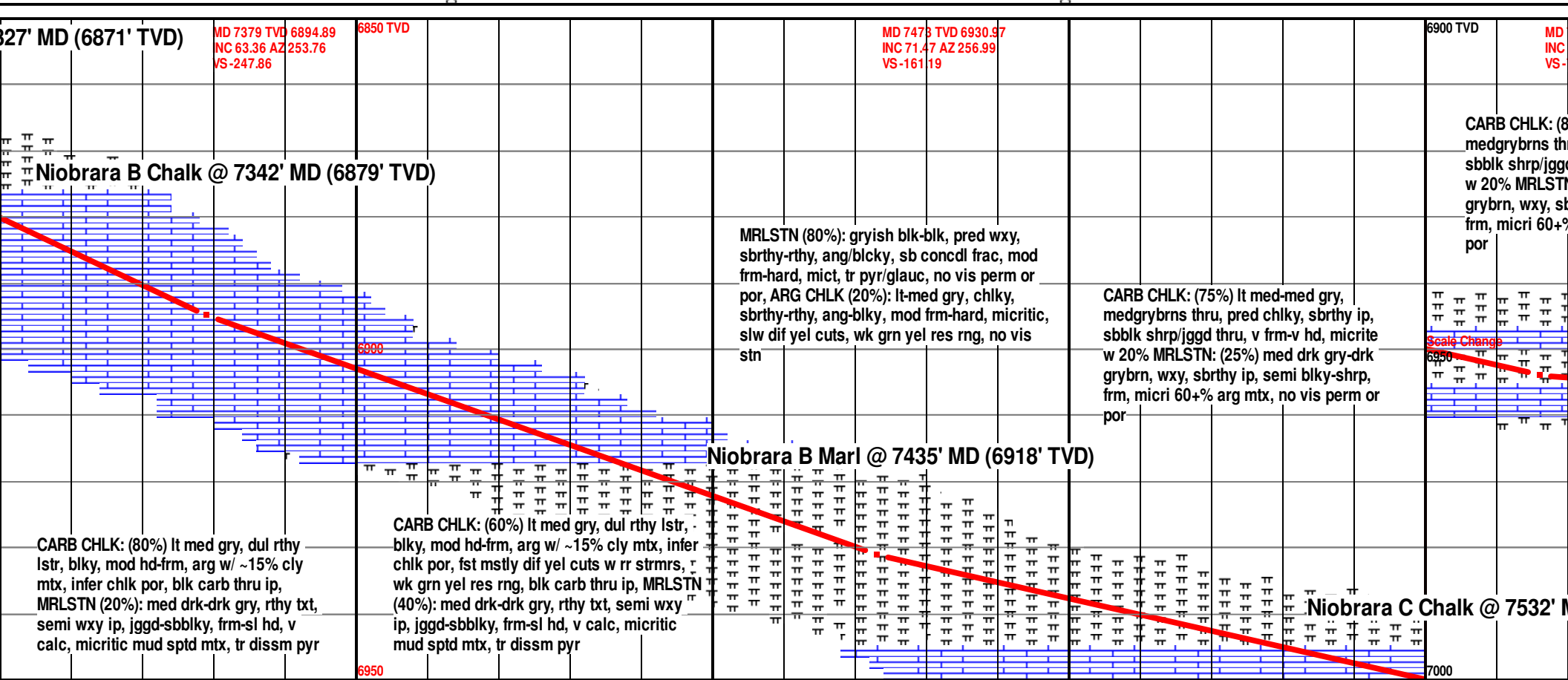
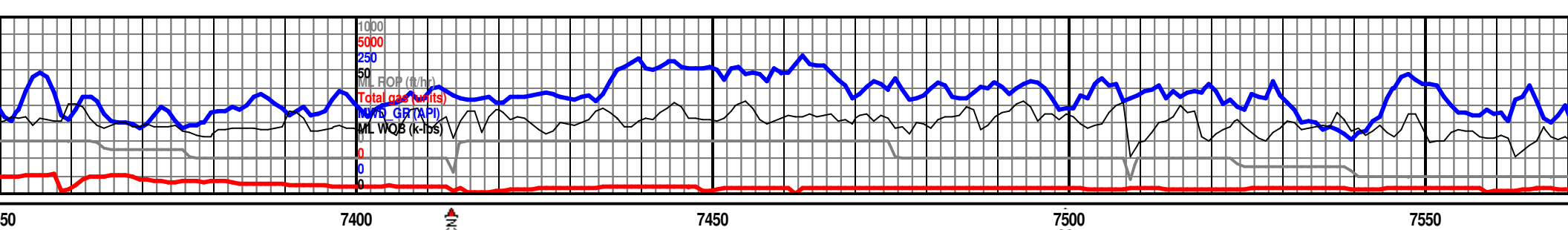








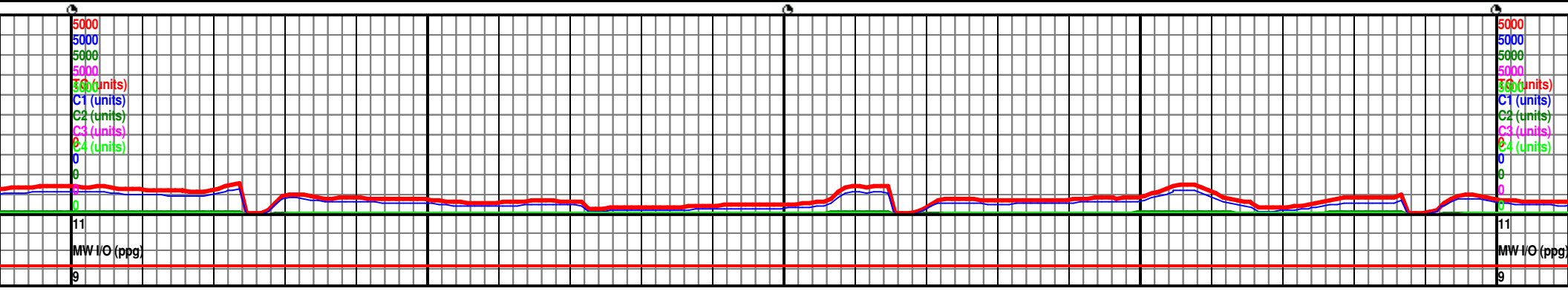
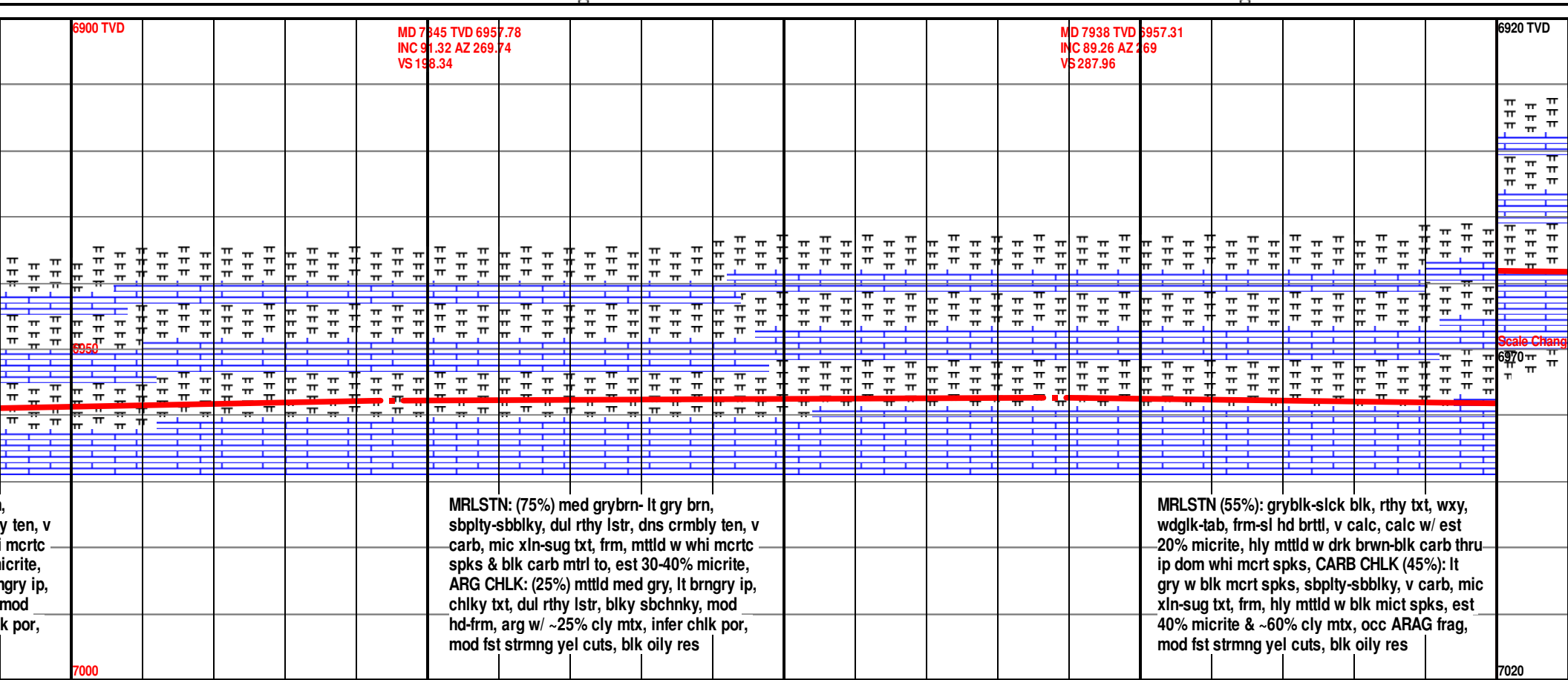
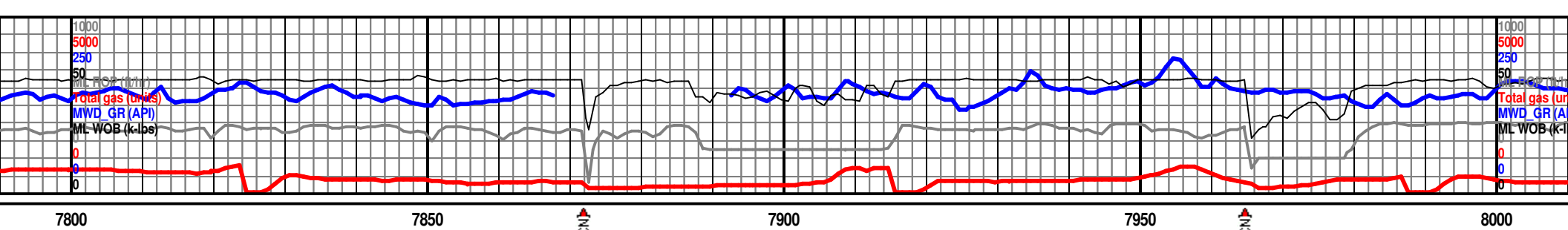




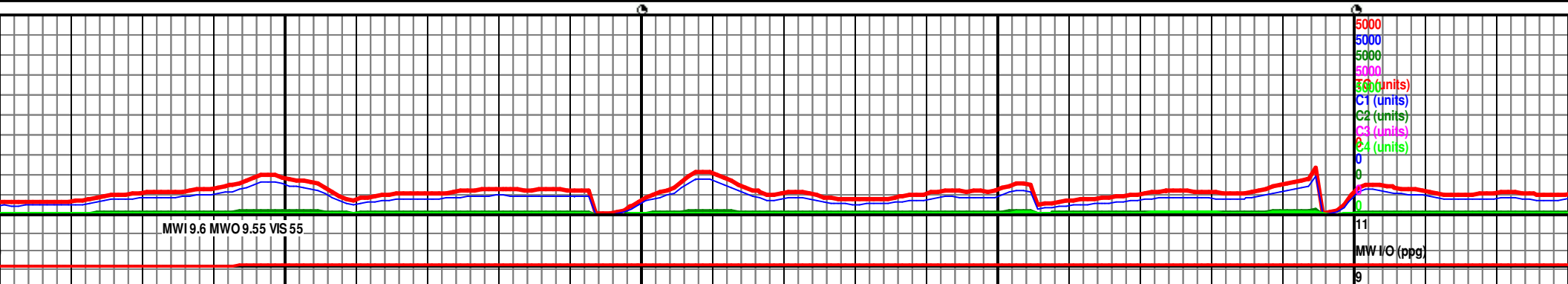
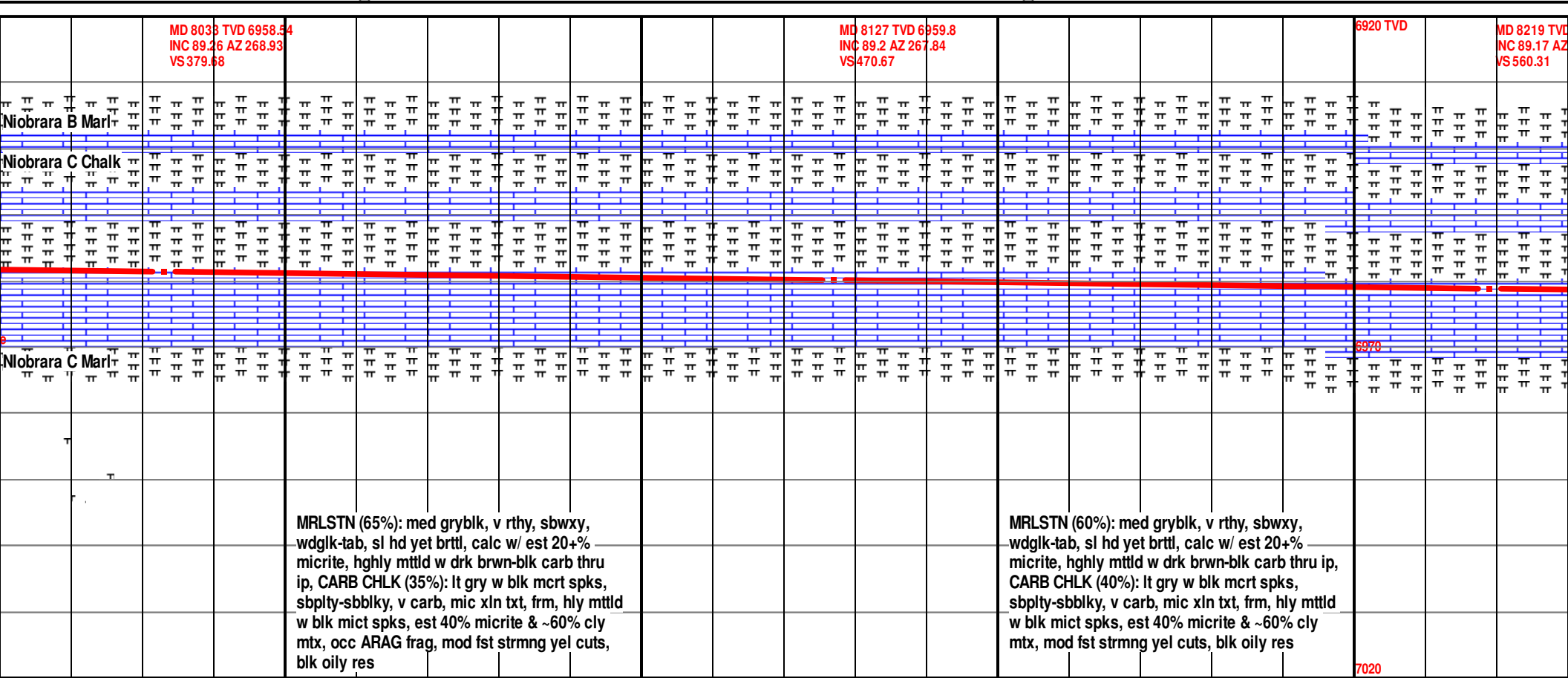








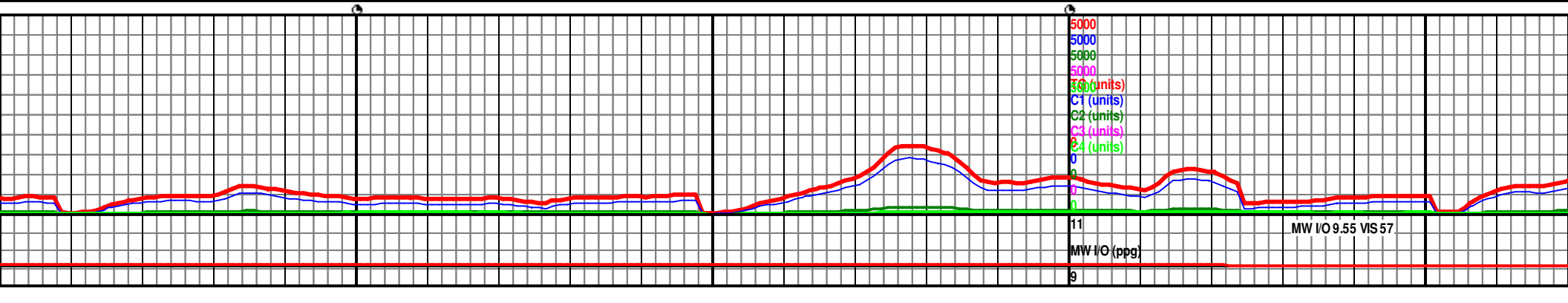
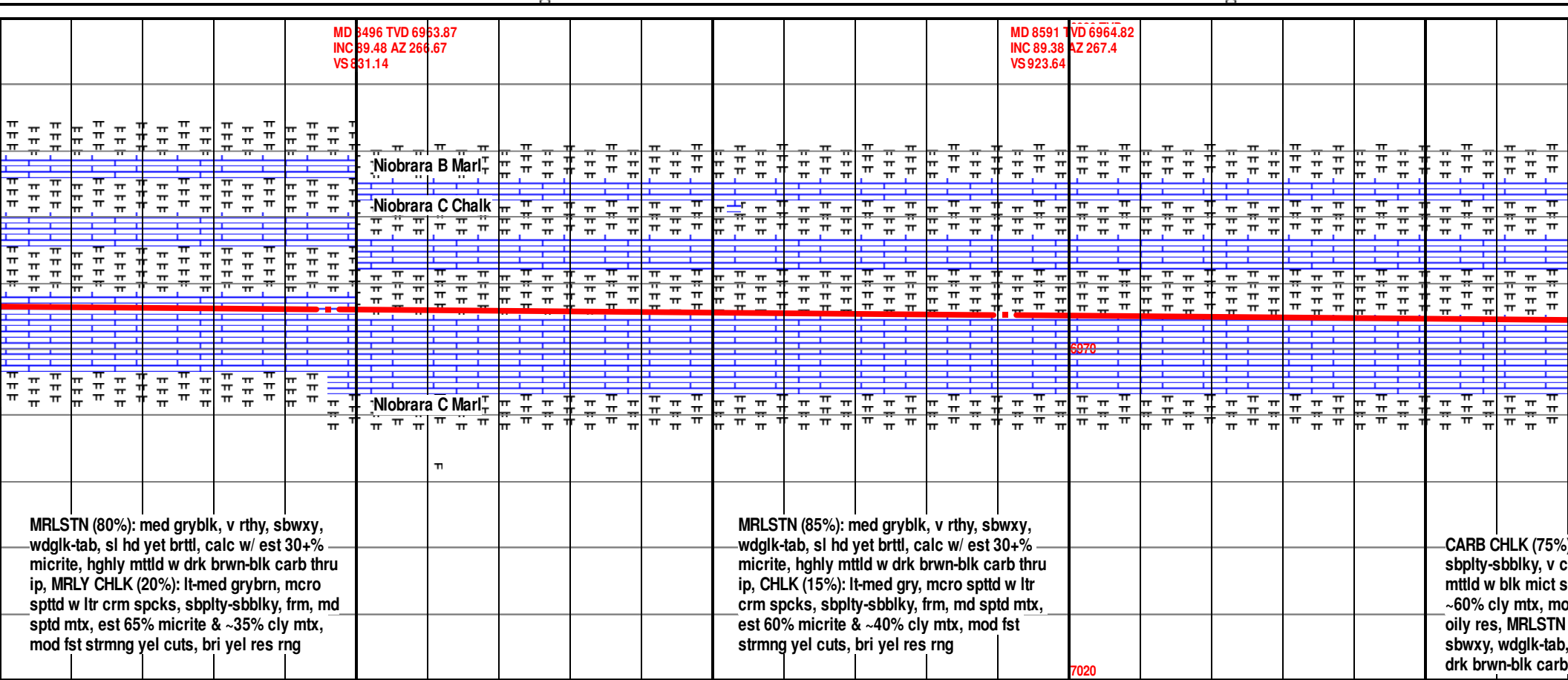
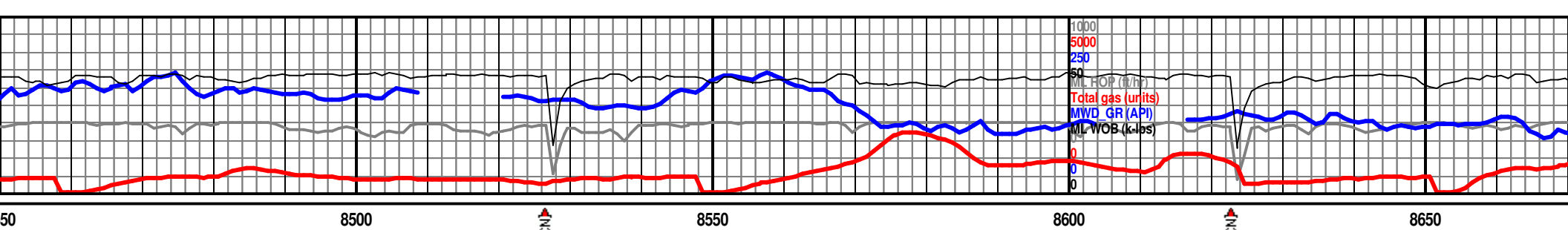




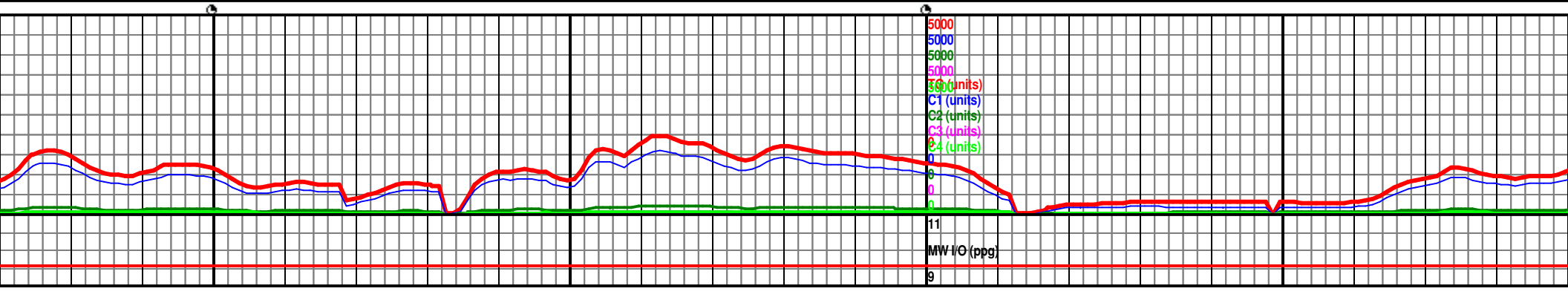
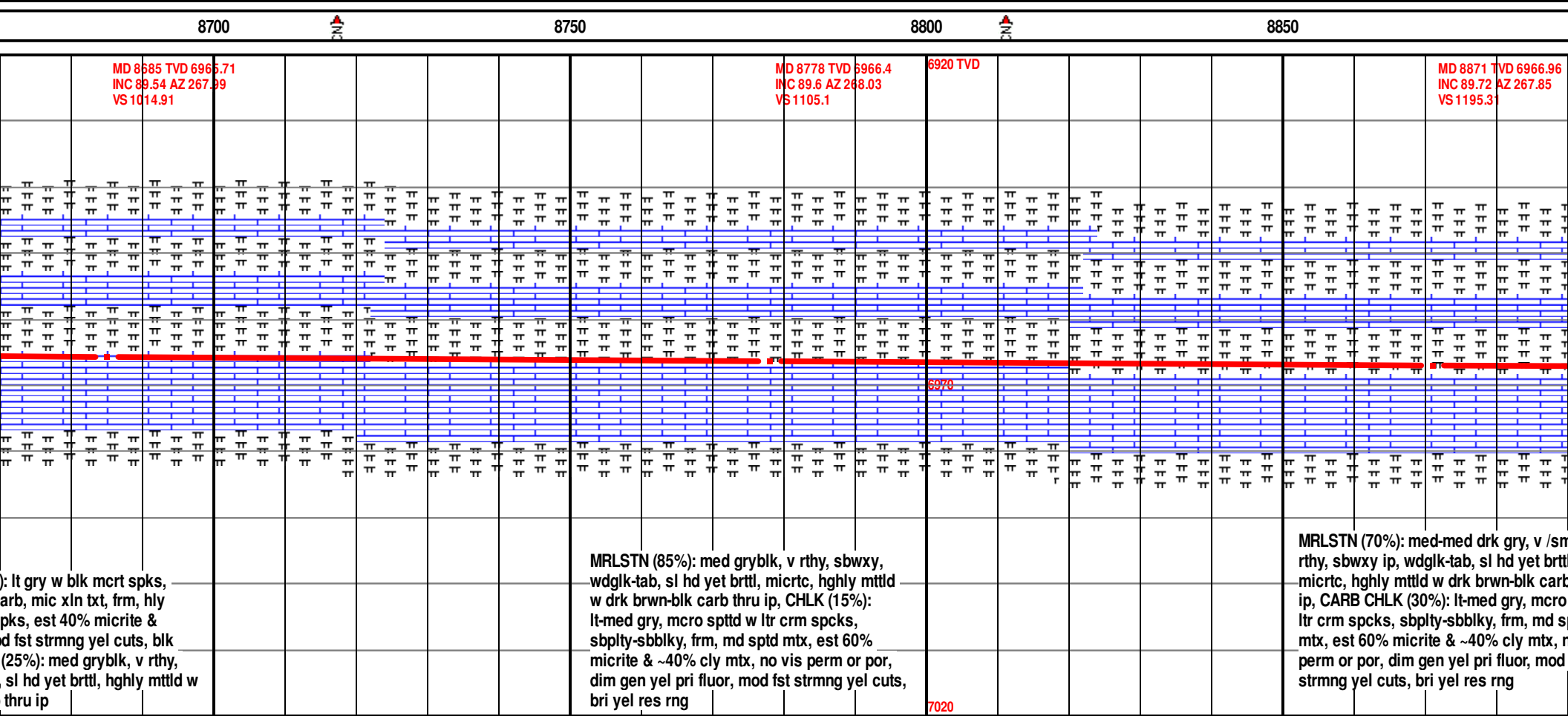
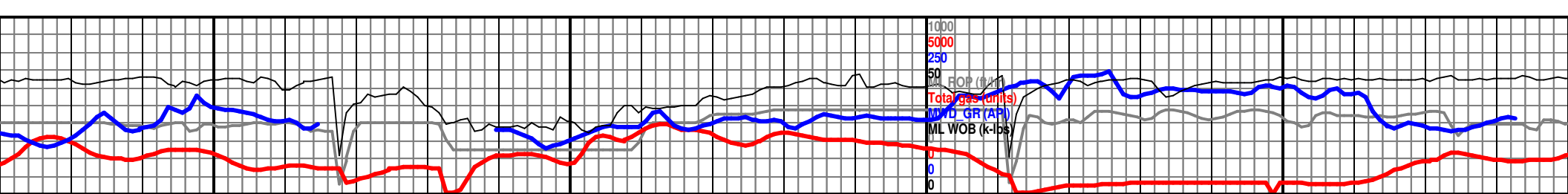




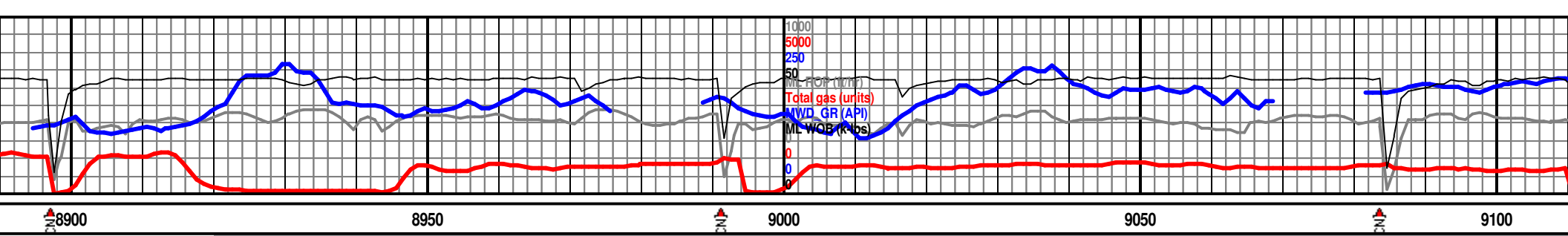






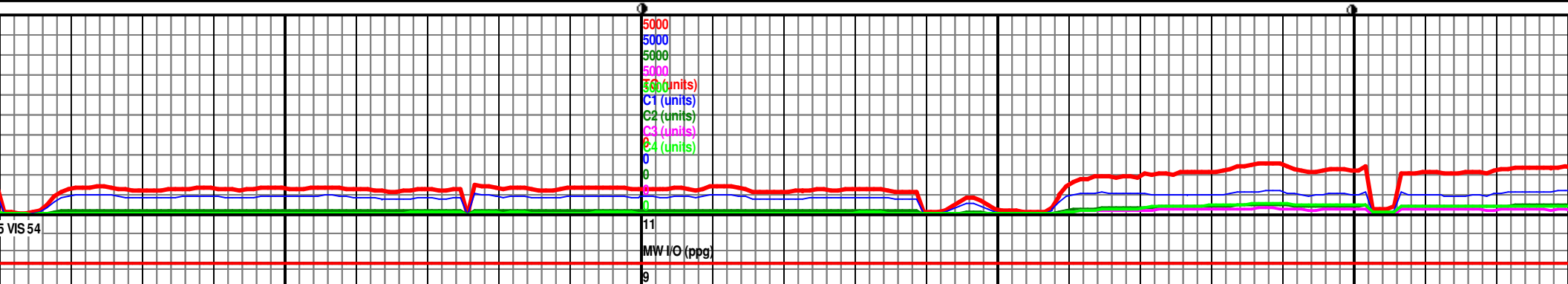
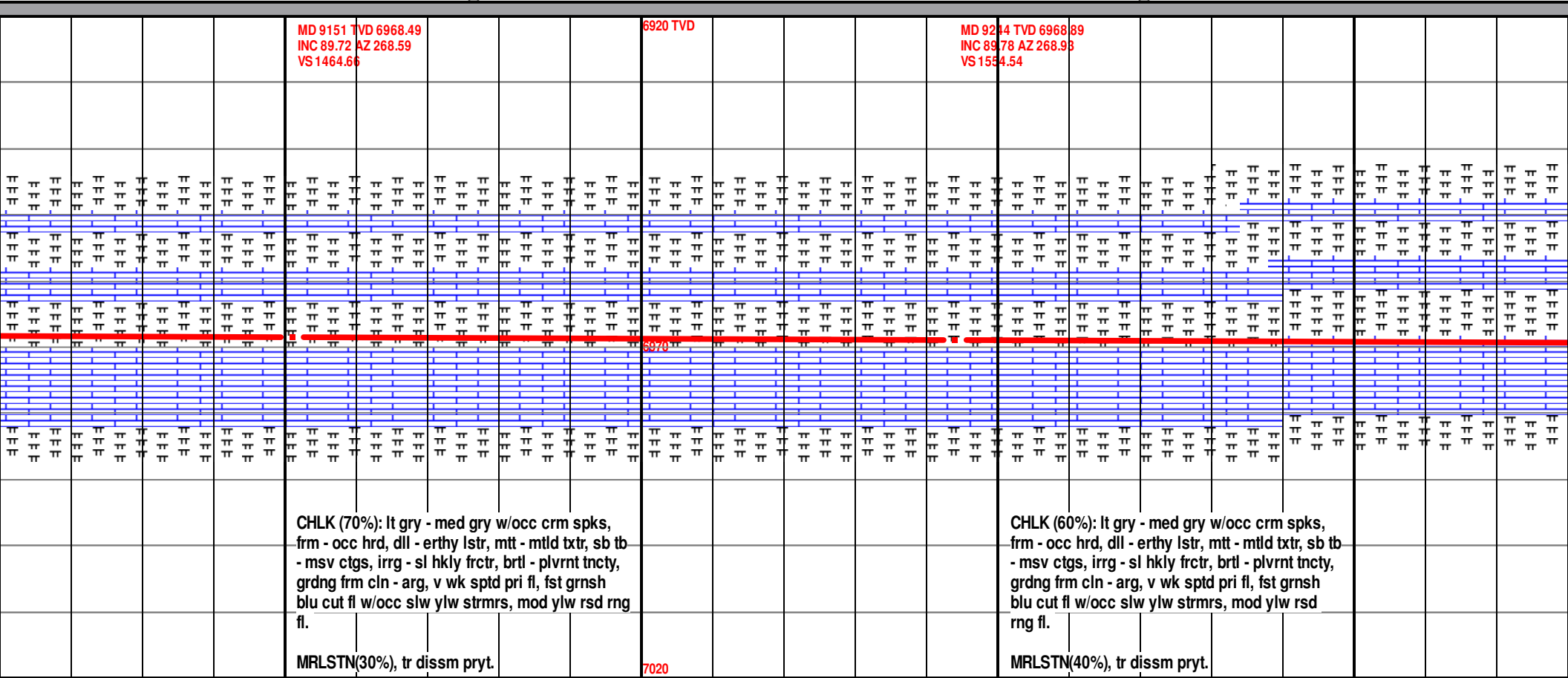




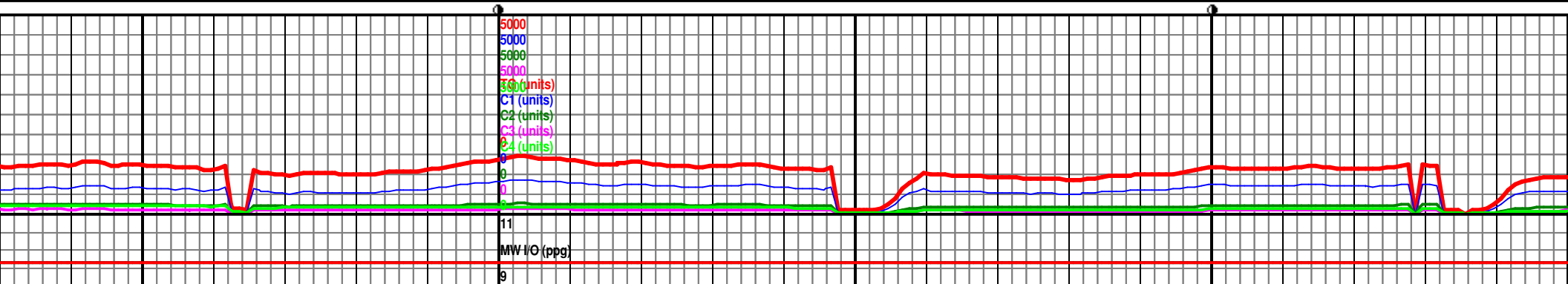
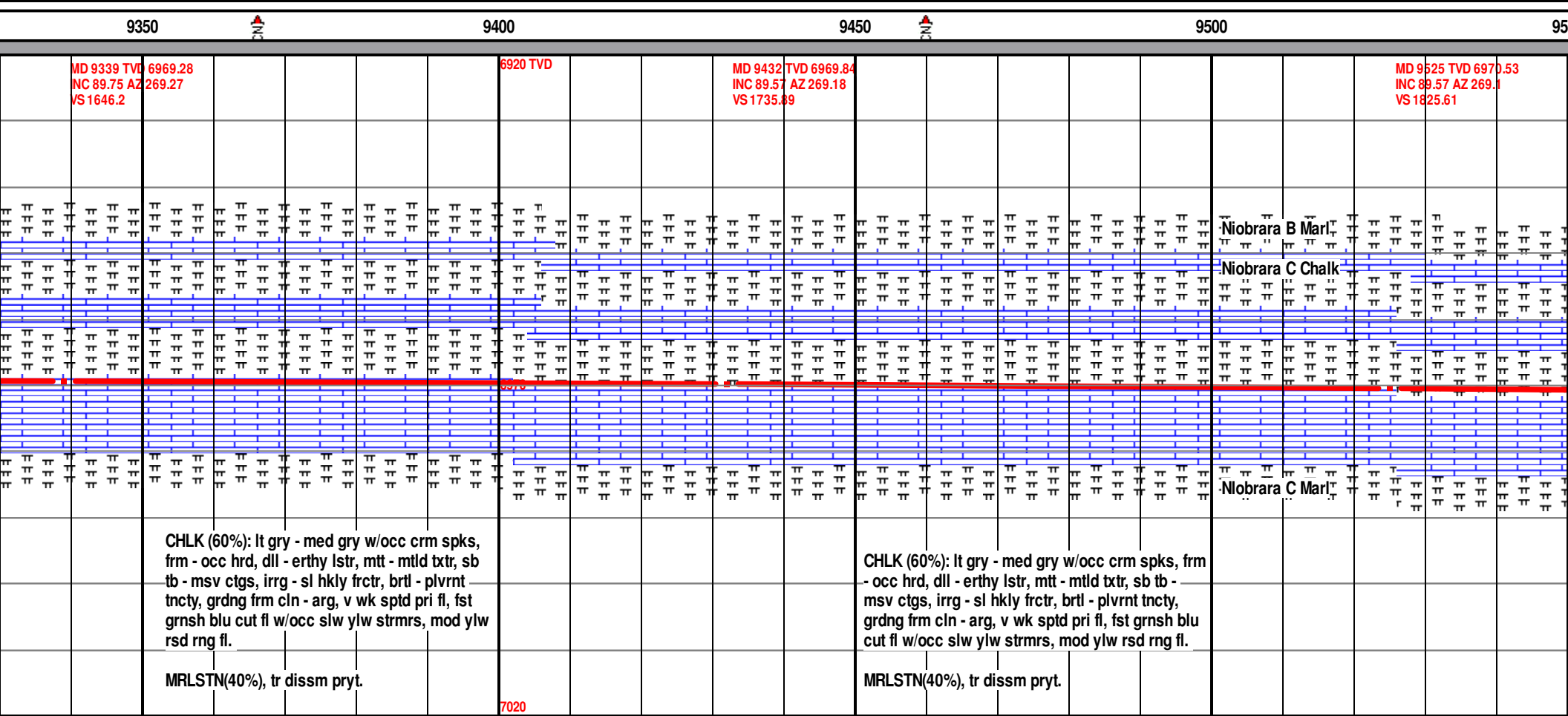
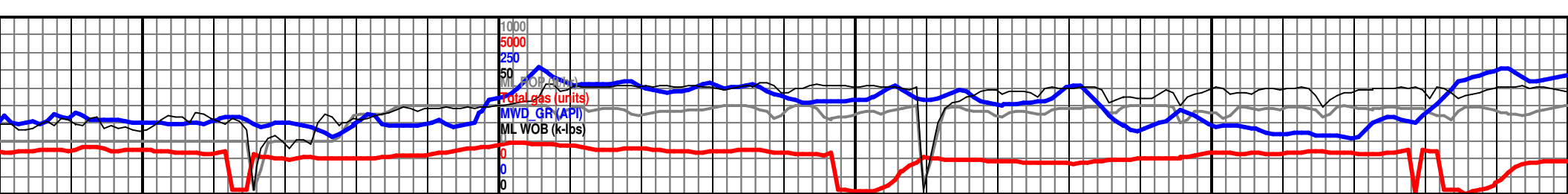


Begin Circulating though Gas Buster										MD 8965 TVD 6967.51 INC 89.63 AZ 268.27 VS 1284.56										6920 TVD										MD 9057 TVD 6968.03 INC 89.72 AZ 248.26 VS 1373.67									

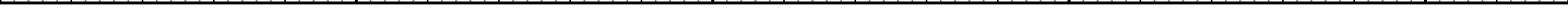
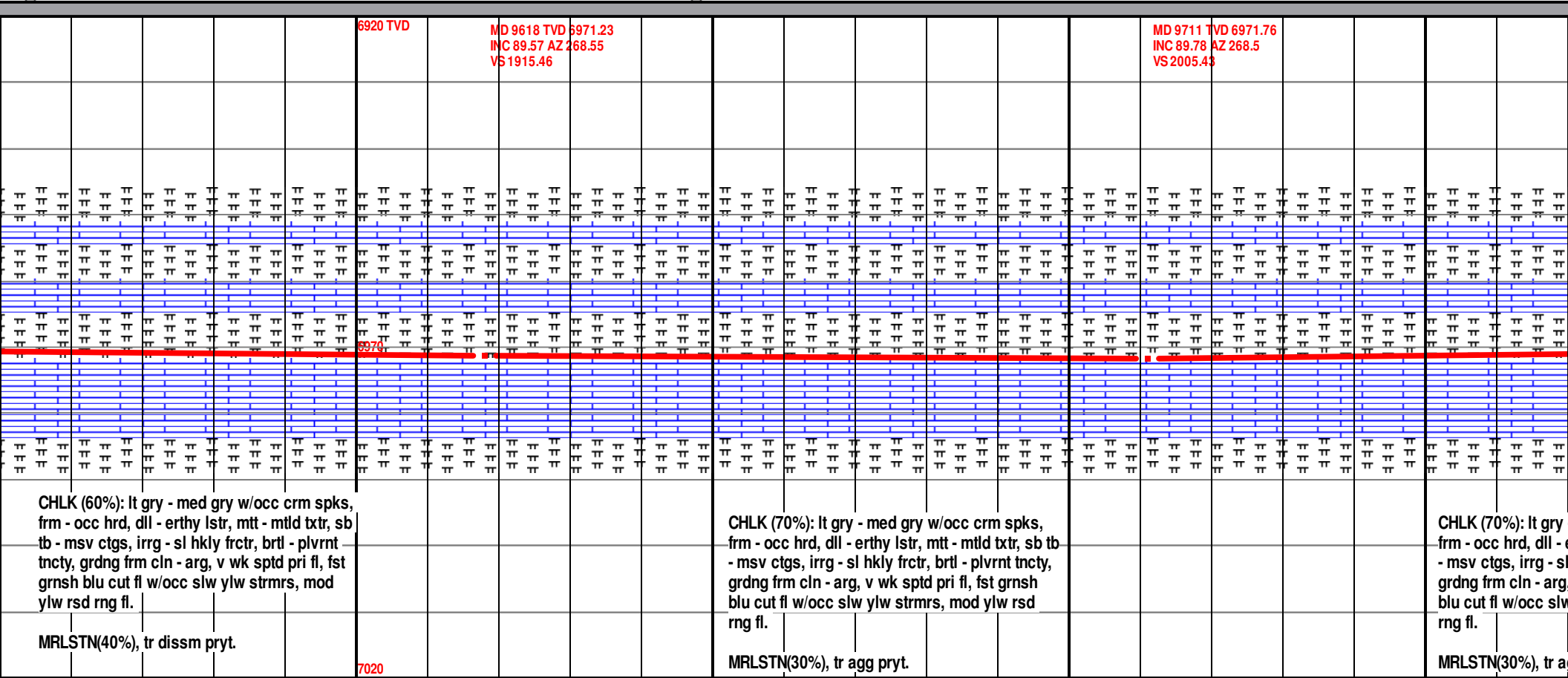








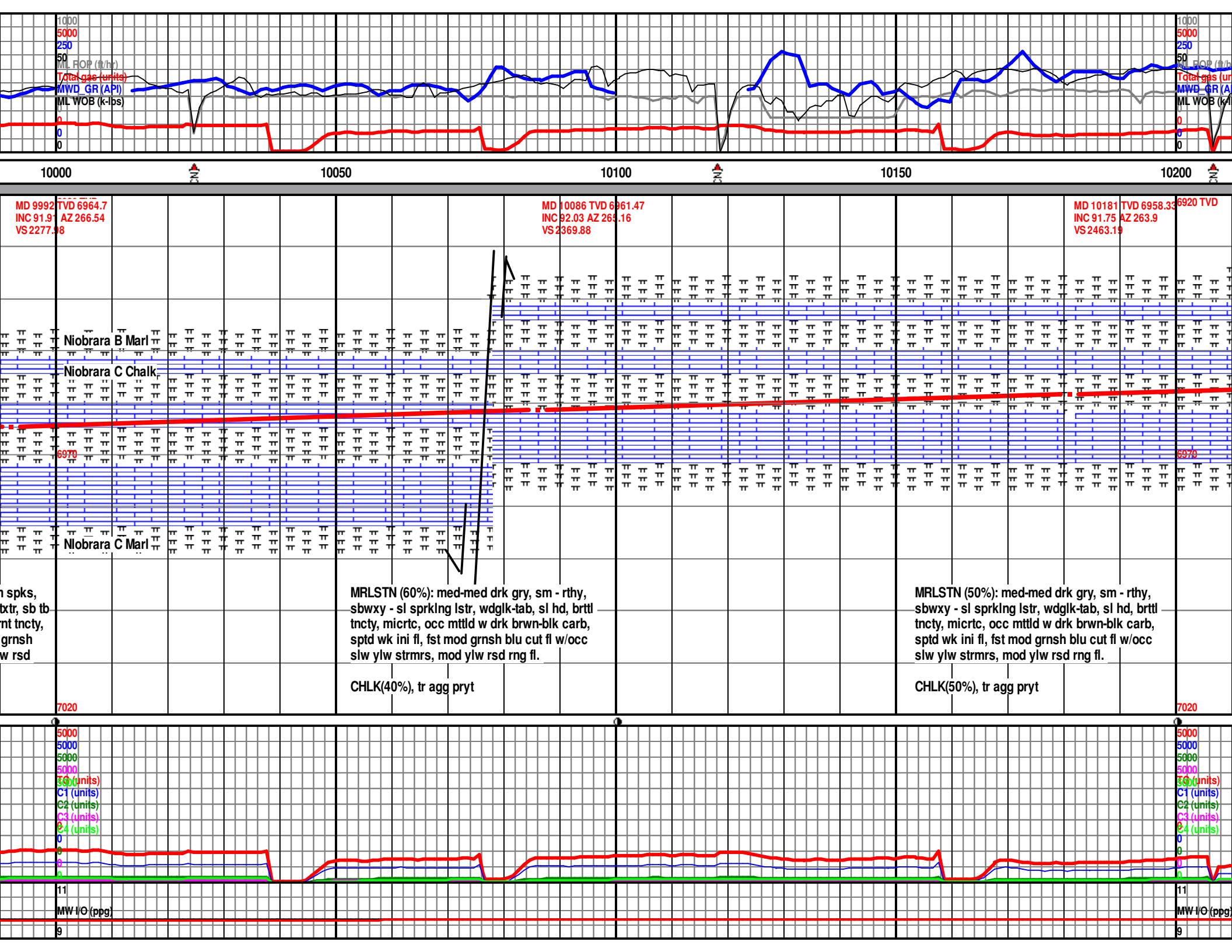




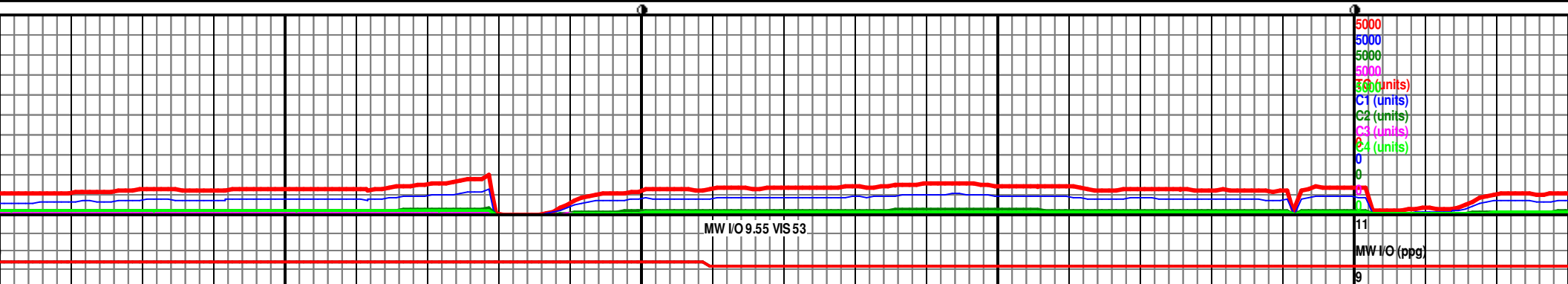
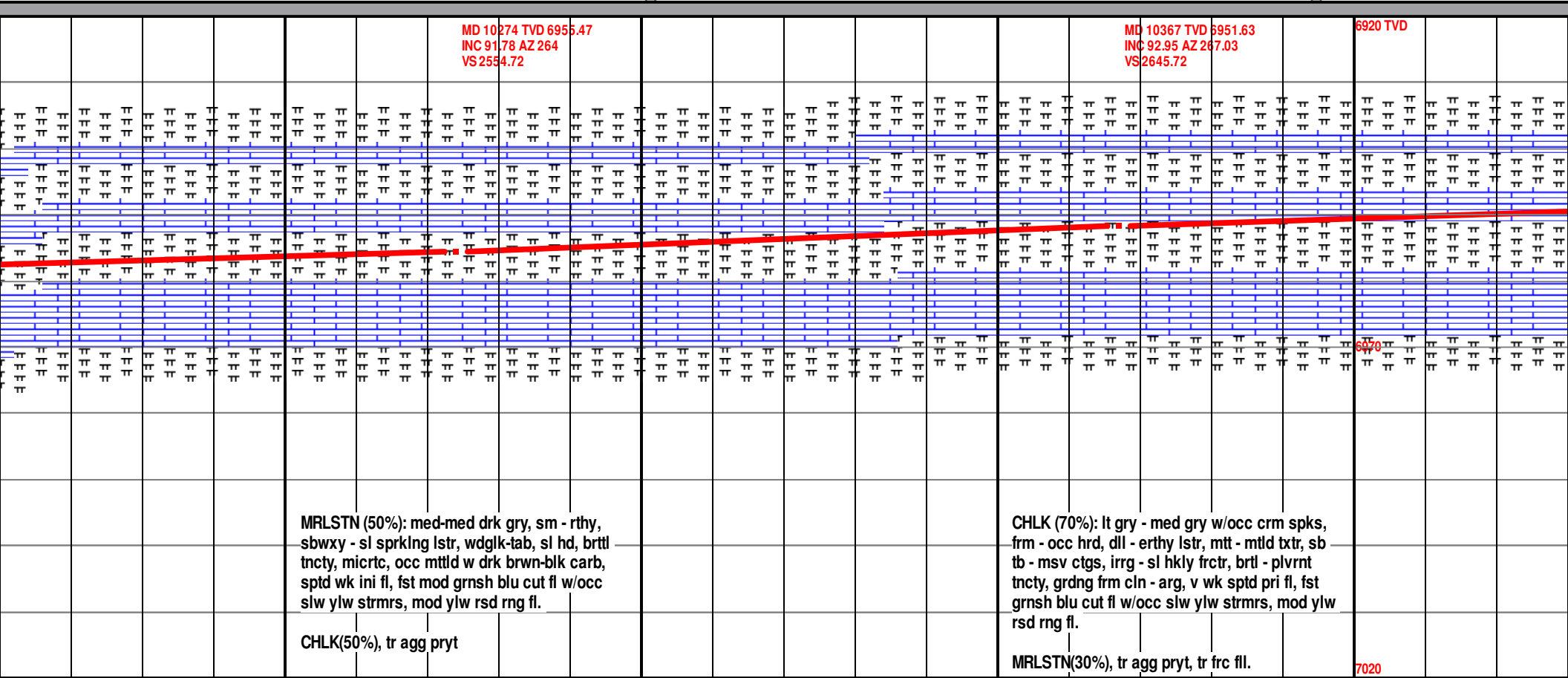




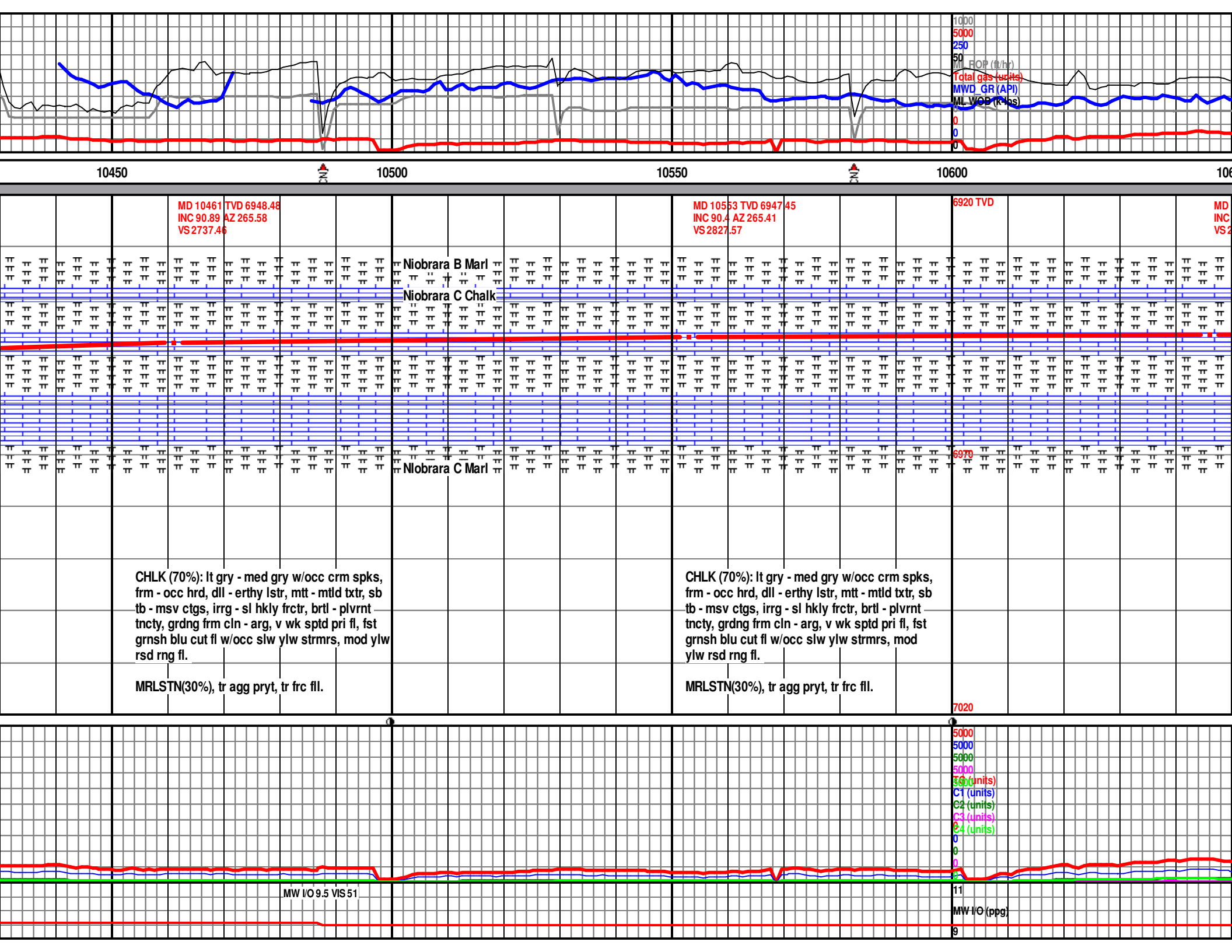




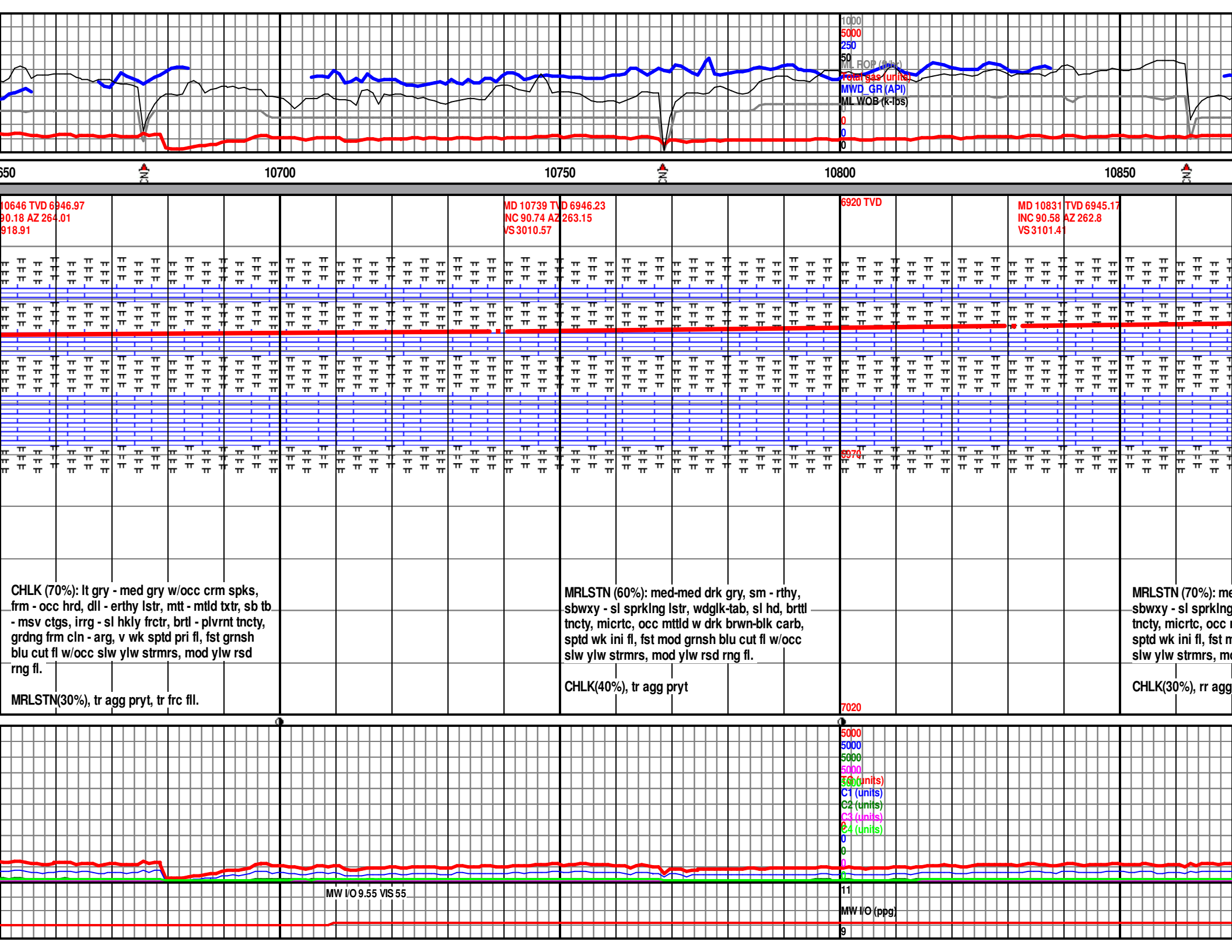




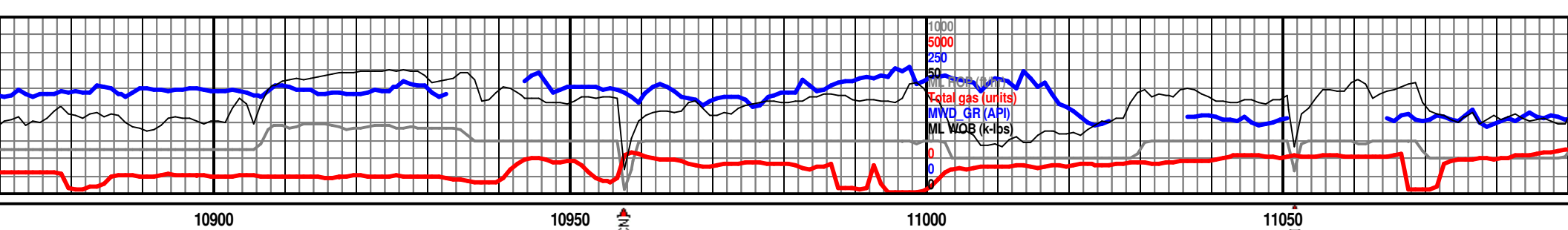




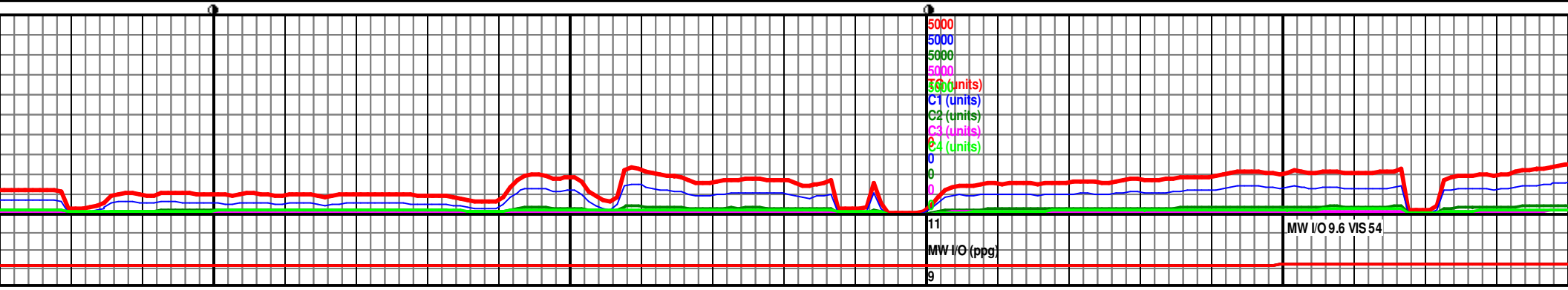








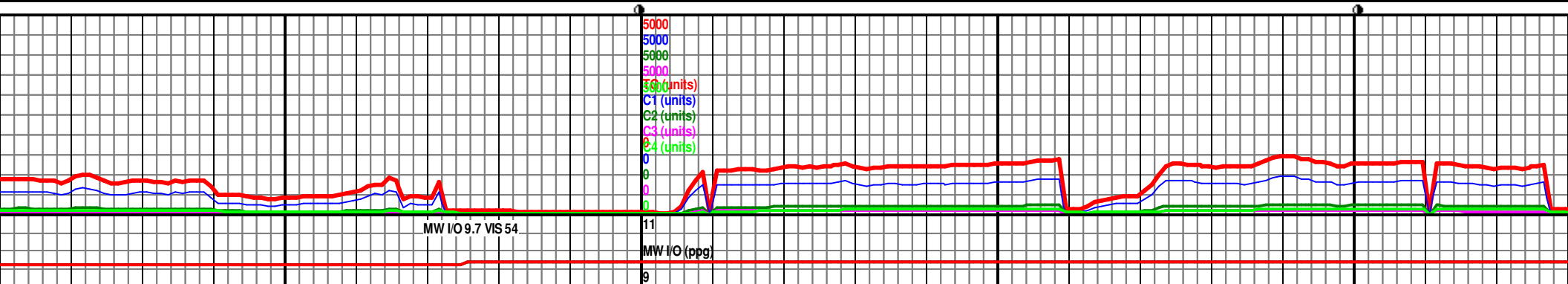
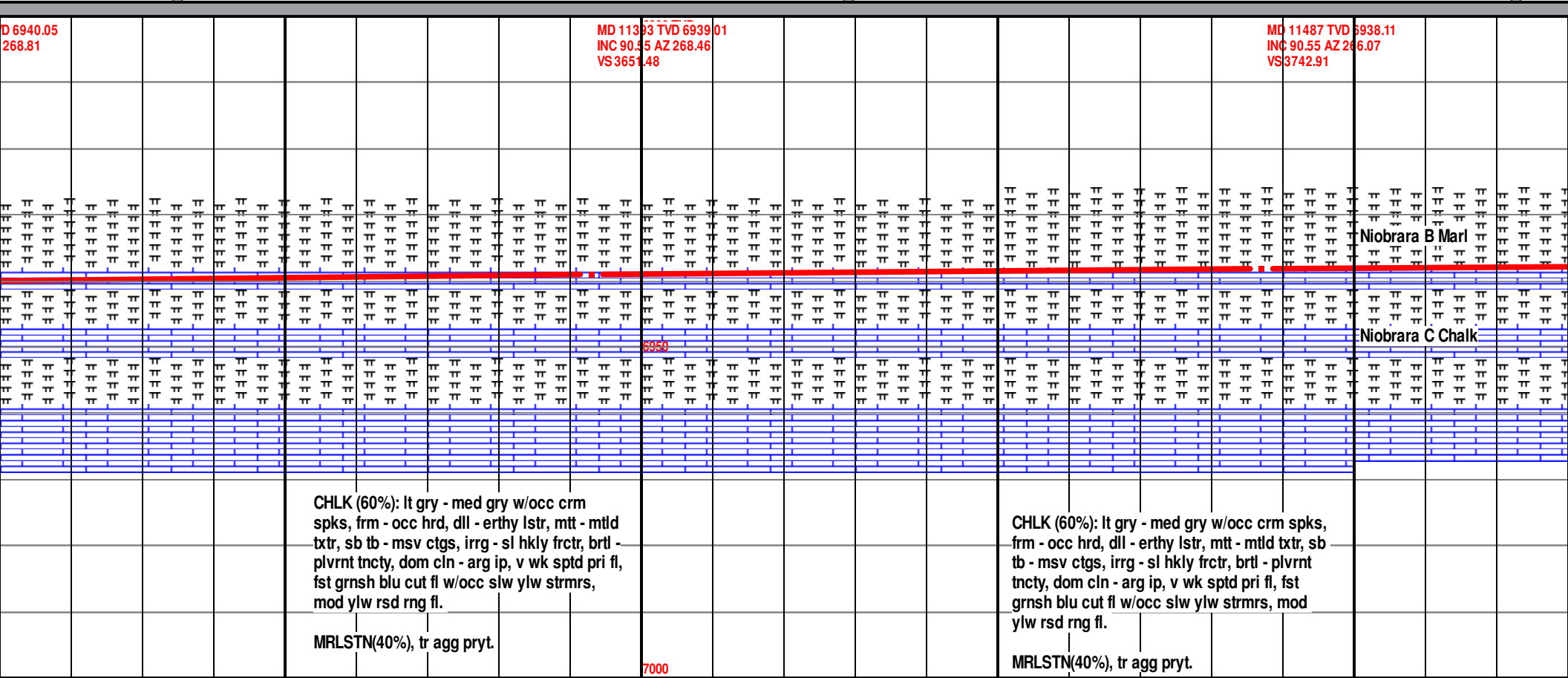
MD 10926 TVD 6944.07 INC 90.74 AZ 262.69 VS 3195.27										6900 TVD MD 11019 TVD 6943.08 INC 90.49 AZ 263.09 VS 3287.12									
MRLSTN (60%): med-med drk gry, sm - rthy, sbwxy - sl sprkng lstr, wdgk-tab, sl hd, brtl tncy, micrtc, occ mtld w drk brwn-blk carb, sptd wk ini fl, fst mod grnsh blu cut fl w/occ slw ylw strmr, mod ylw rsd rng fl.										MRLSTN (50%): med-med drk gry, sm - sbwxy - sl sprkng lstr, wdgk-tab, sl h tncy, micrtc, occ mtld w drk brwn-blk sptd wk ini fl, fst mod grnsh blu cut fl slw ylw strmr, mod ylw rsd rng fl.									
CHLK(40%), tr agg pryt										CHLK(50%), tr agg pryt									



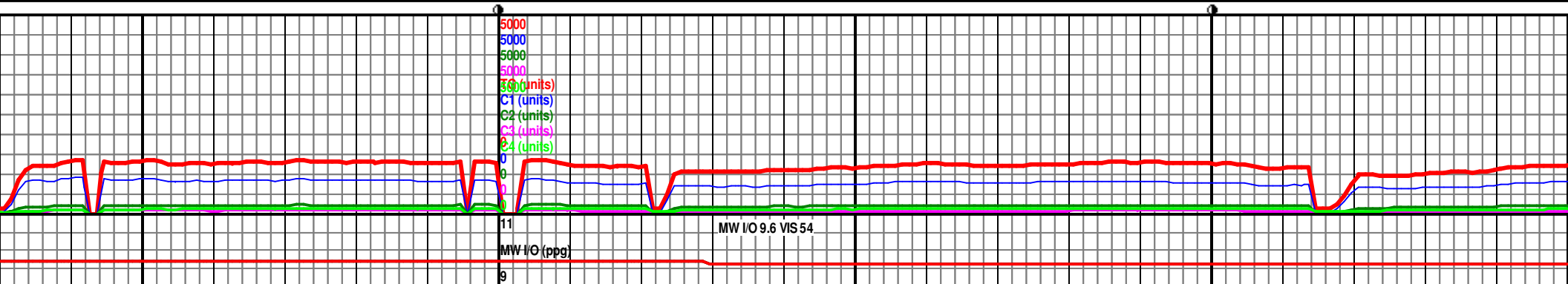
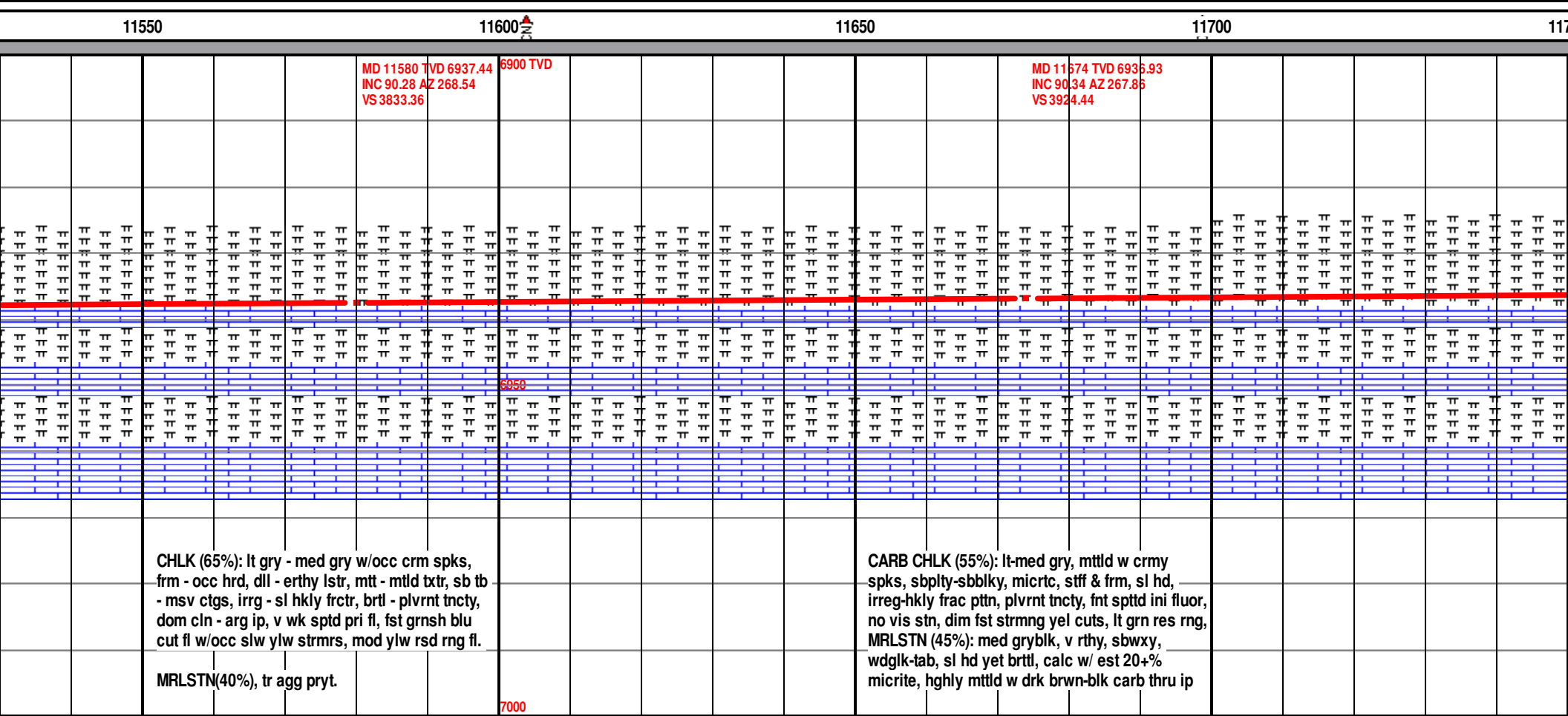




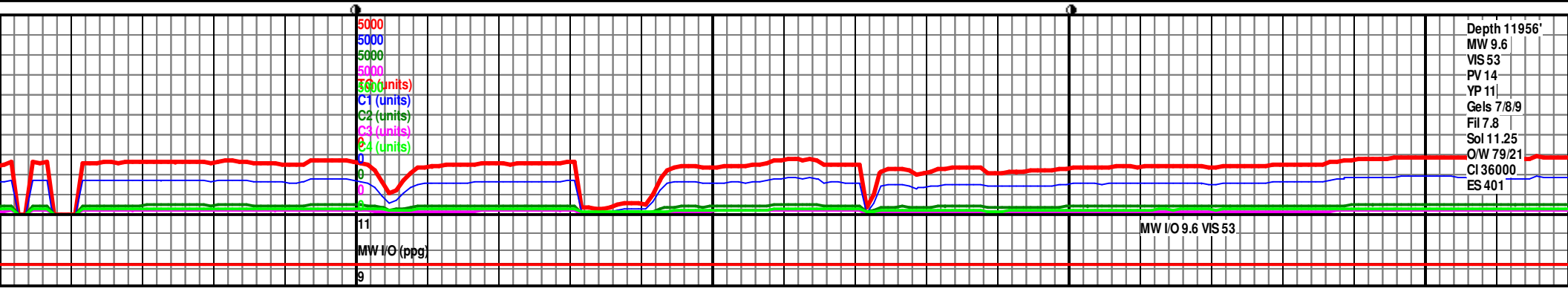
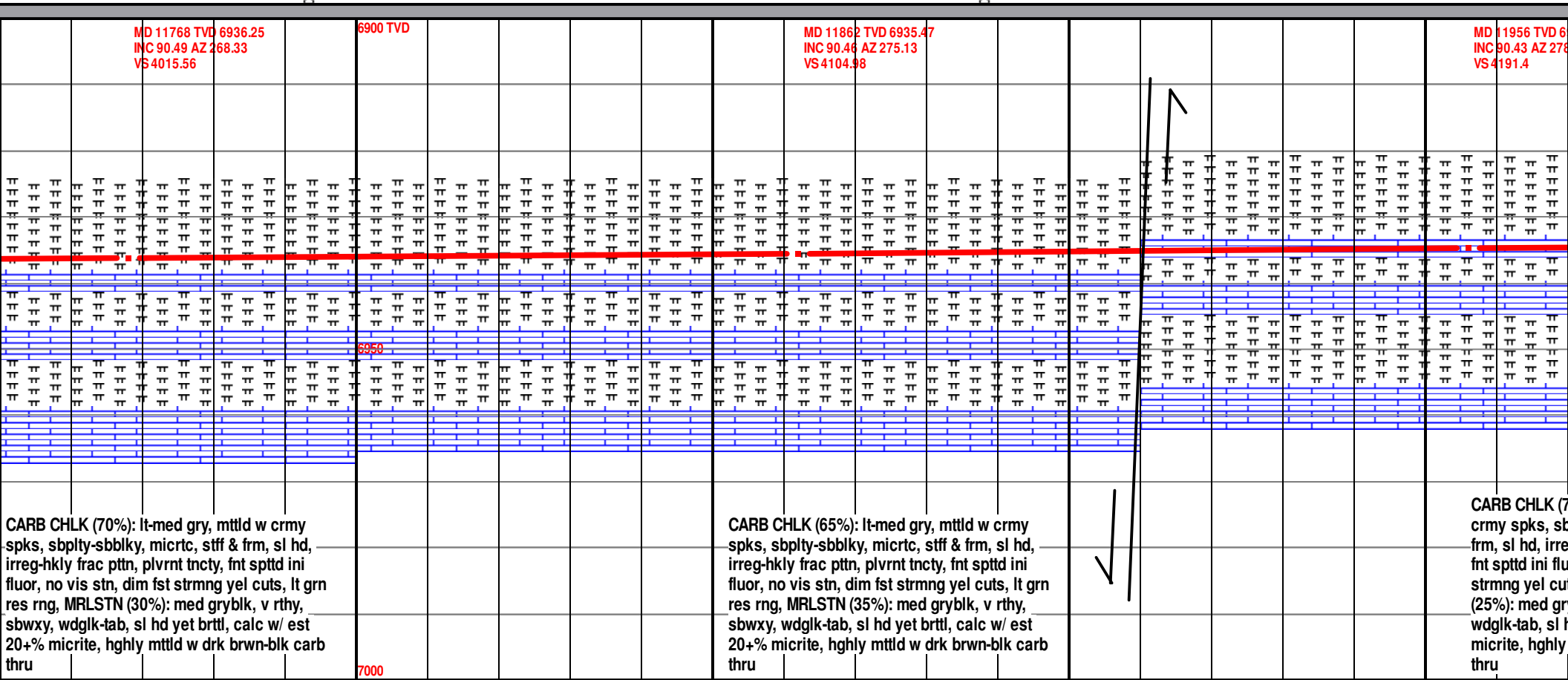








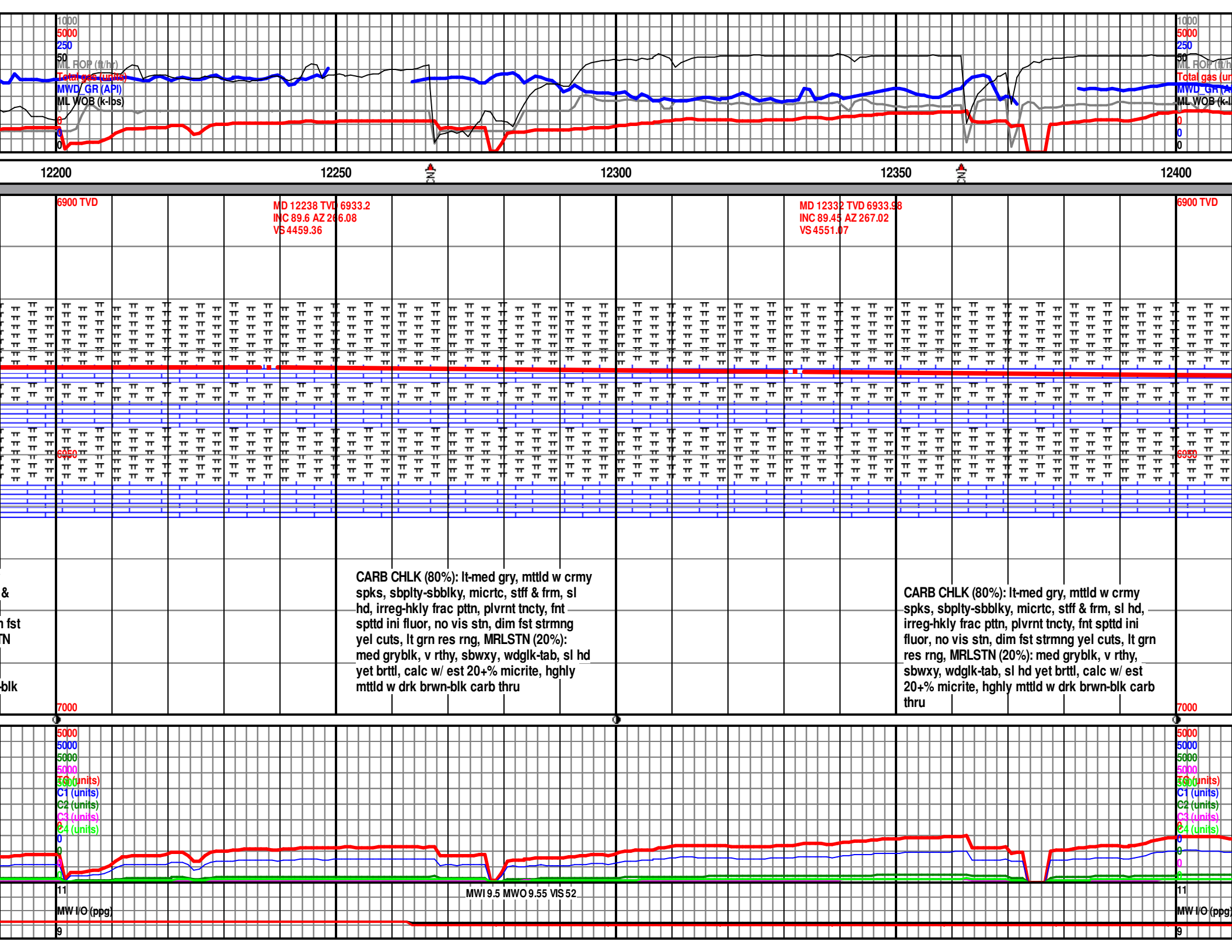




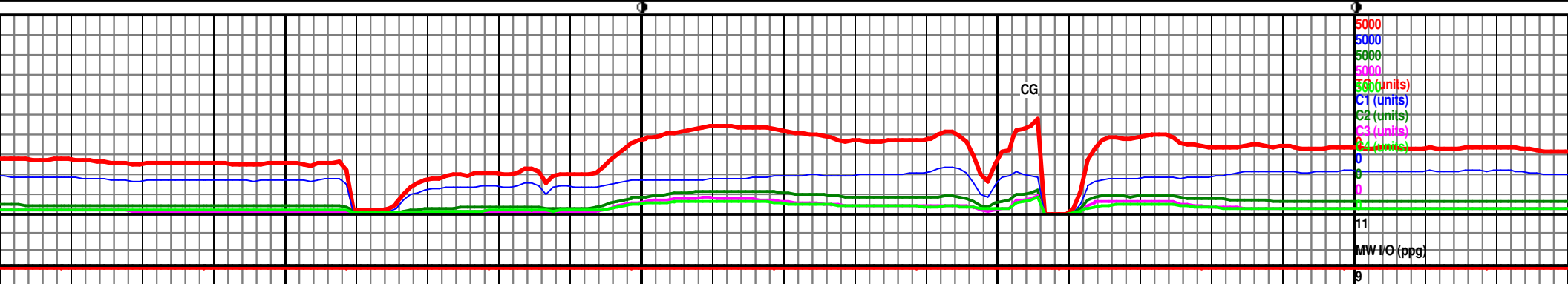
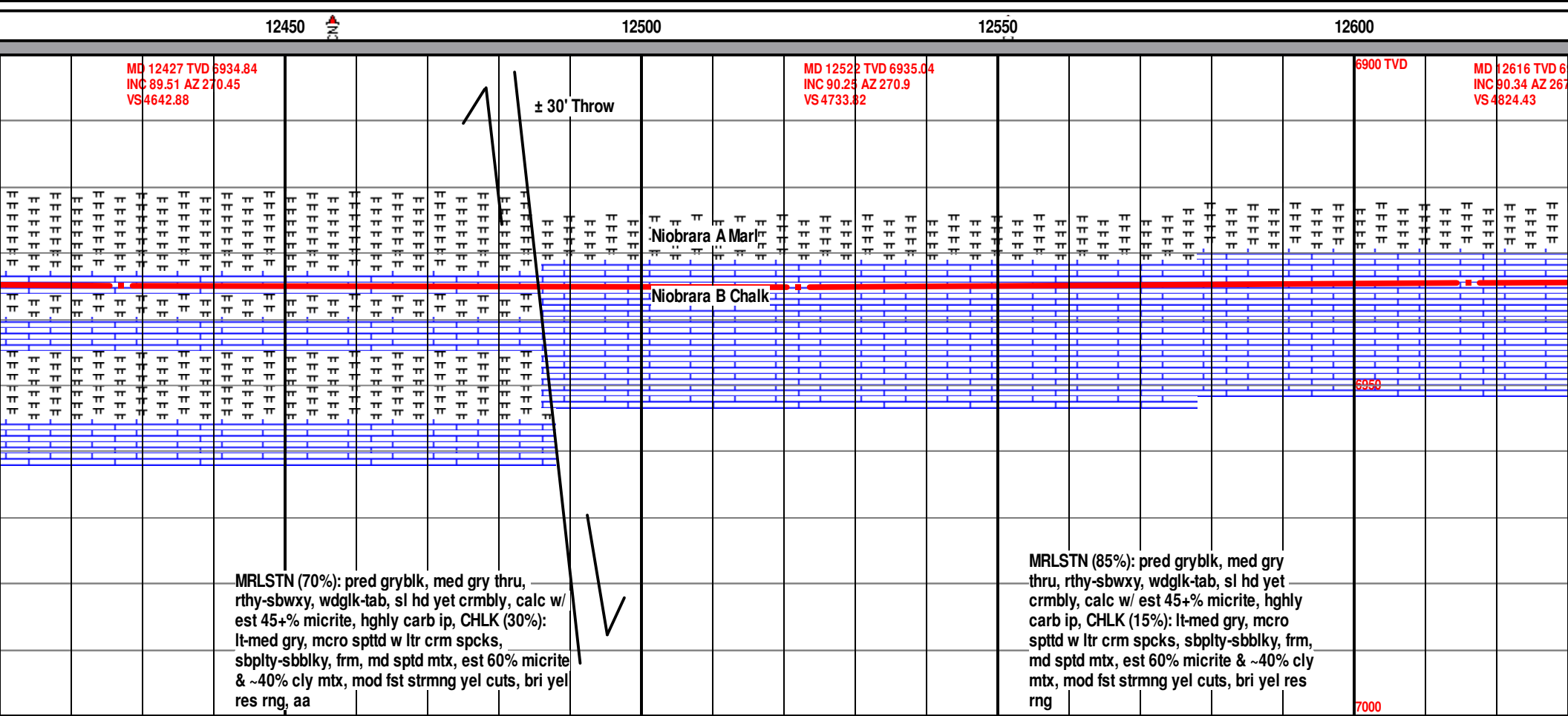
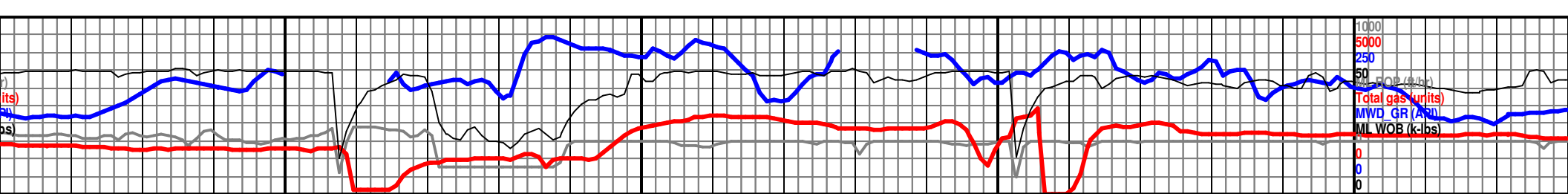








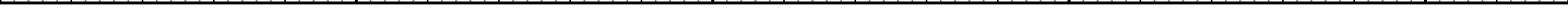
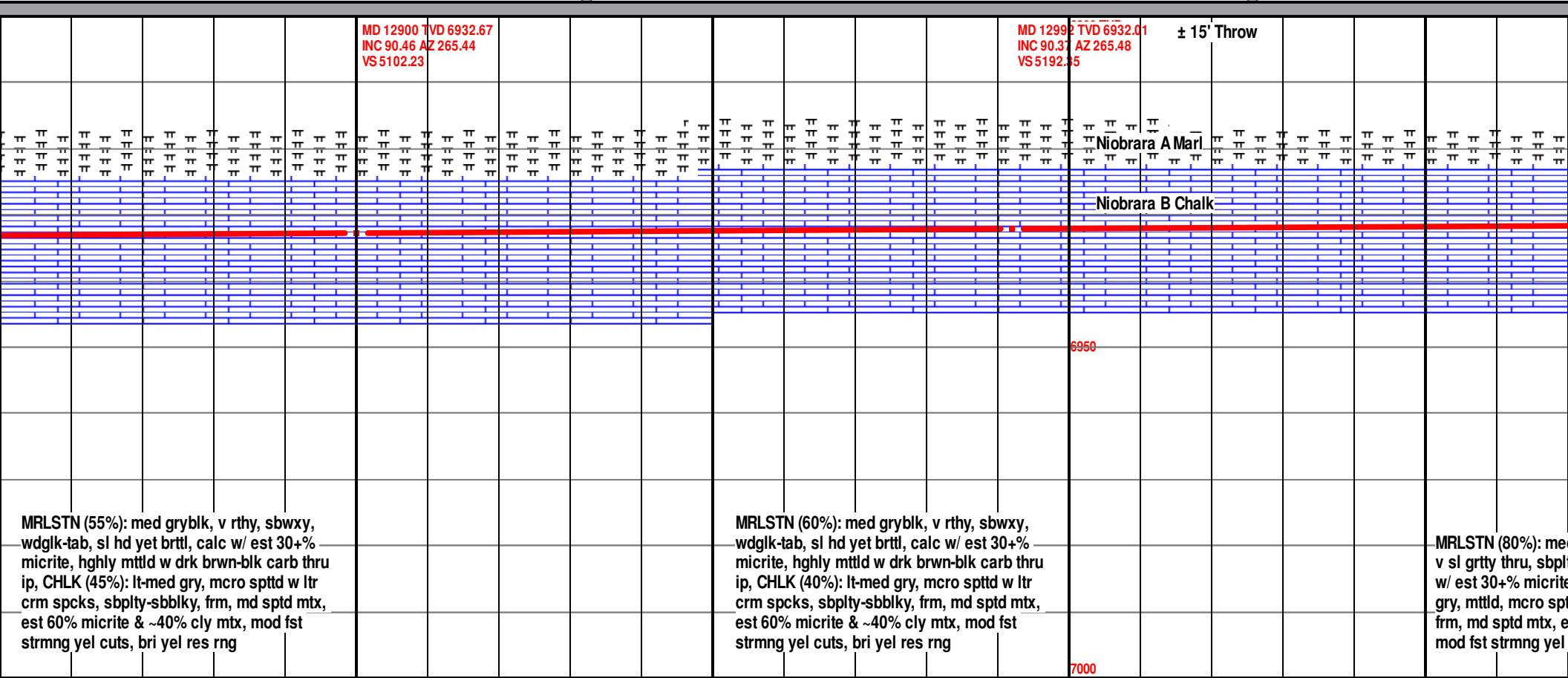




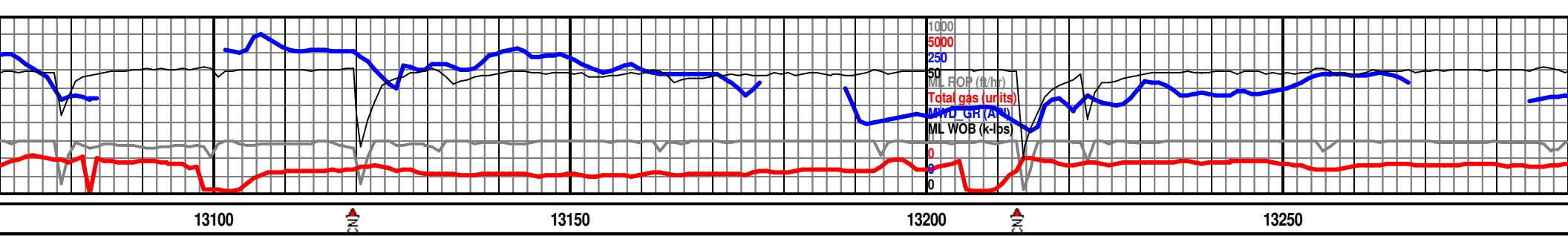








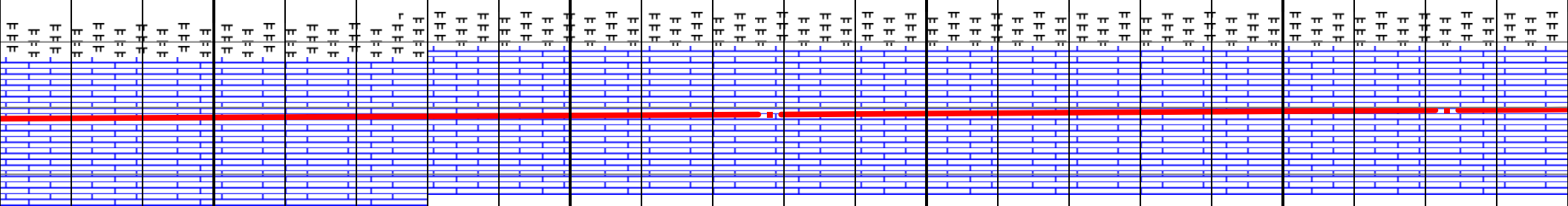




MD 13178 TVD 6930.95  
INC 90.28 AZ 265.06  
VS 5374.69

6900 TVD

MD 13273 TVD 6930.95  
INC 90.34 AZ 264.63  
VS 5467.95

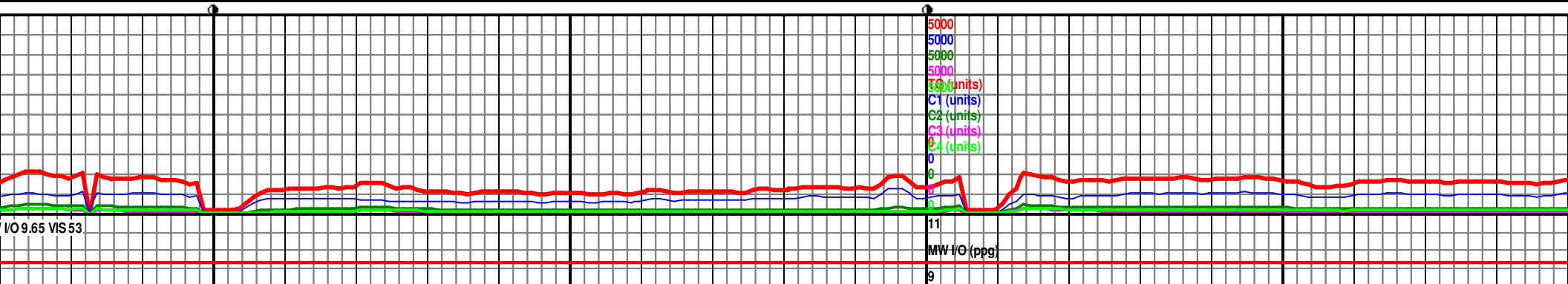


d gryblk, gryblk ip, rthy-sbwxy,  
ty-sbbly, sl hd yet crmbly, calc  
e, carb rch, CHLK (20%): lt-med  
td w ltr crm spcks, hcky & rthy,  
st 60% micrite & ~40% cly mtx,  
cuts, bri yel res rng

MRLSTN (85%): med gryblk, gryblk ip,  
rthy-sbwxy, v sl grtty thru, sbply-sbbly, sl hd  
yet crmbly, calc w/ est 30+% micrite, carb rch,  
CARB CHLK (15%): lt-med gry, mttld, mcro spttd w  
ltr crm spcks, hcky & rthy, frm, md sptd mtx, est  
60% micrite & ~40% cly mtx, mod fst strmg yel  
cuts, bri yel res rng

MRLSTN (90%): med gryblk, gryblk ip,  
rthy-sbwxy, v sl grtty thru, sbply-sbbly,  
yet crmbly, calc w/ est 30+% micrite, ca  
CARB CHLK (10%): lt-med gry, mttld, mc  
spttd w ltr crm spcks, hcky & rthy, frm,  
sptd mtx, no vis por or perm, dim sptty  
fluor, mod fst strmg yel cuts, bri yel re

7000



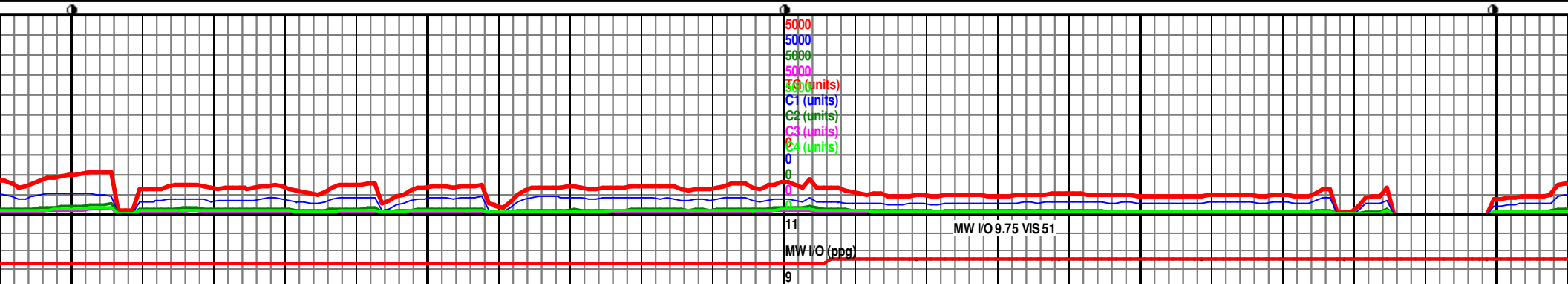
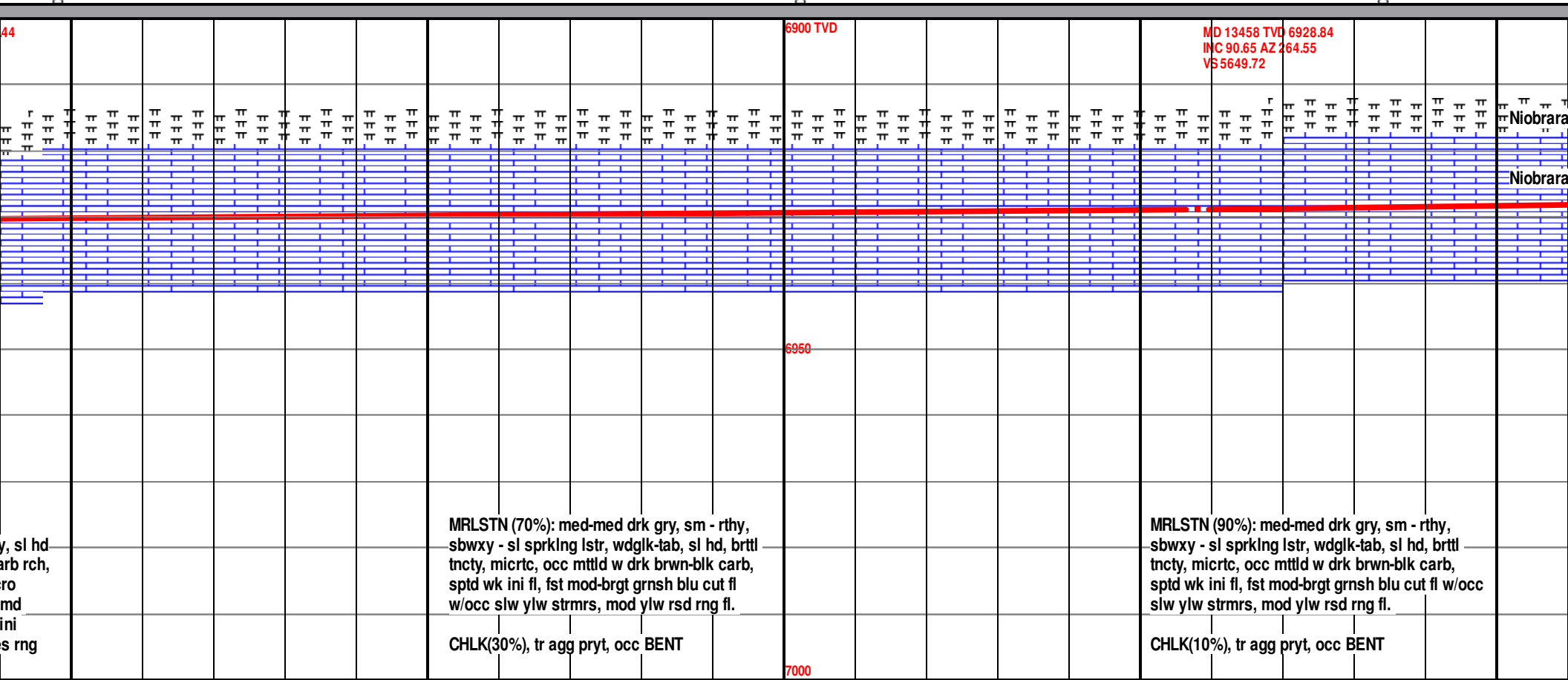
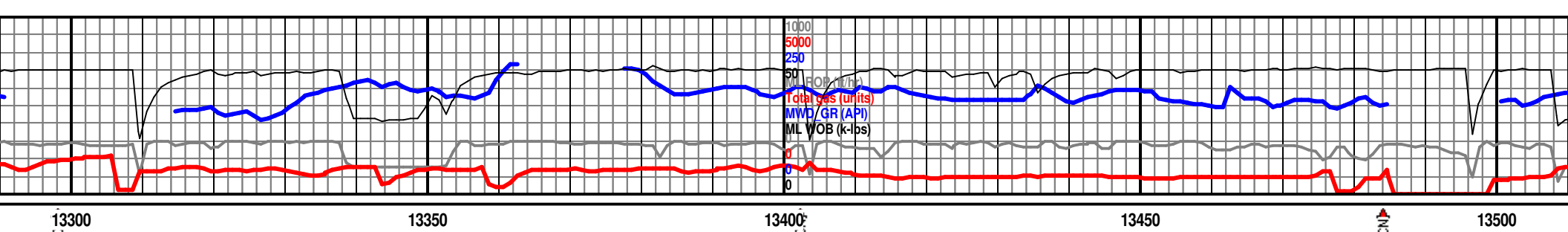
I/O 9.65 VS 53

11

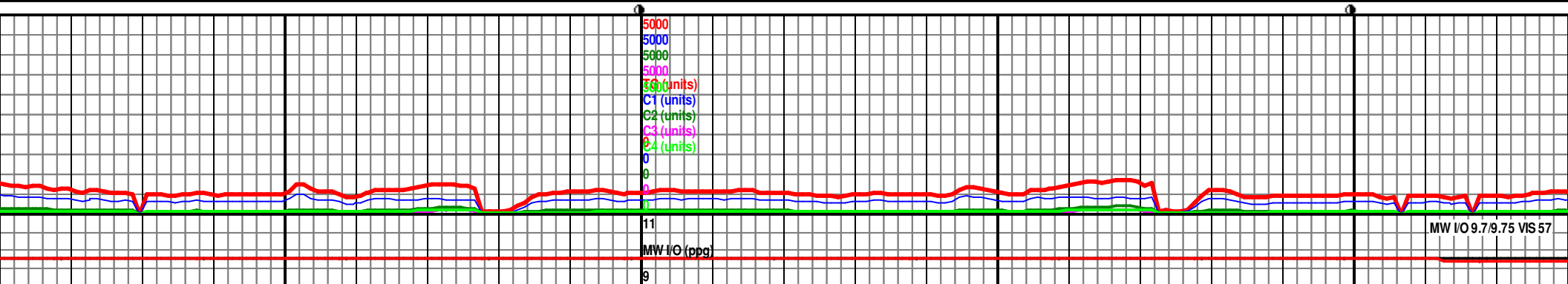
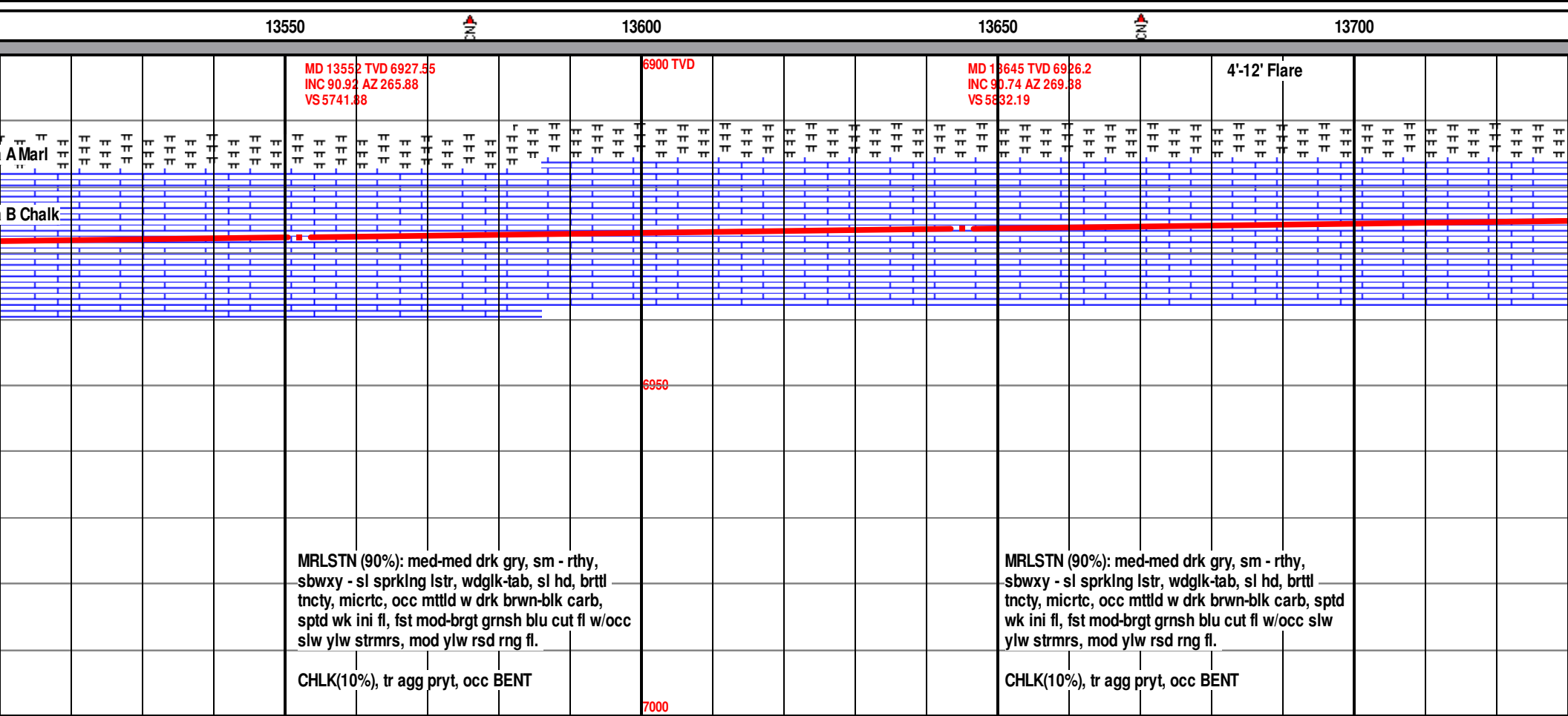
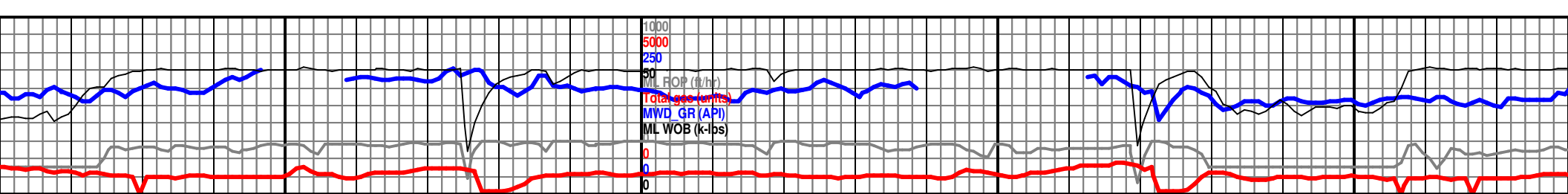
MW I/O (ppg)

9

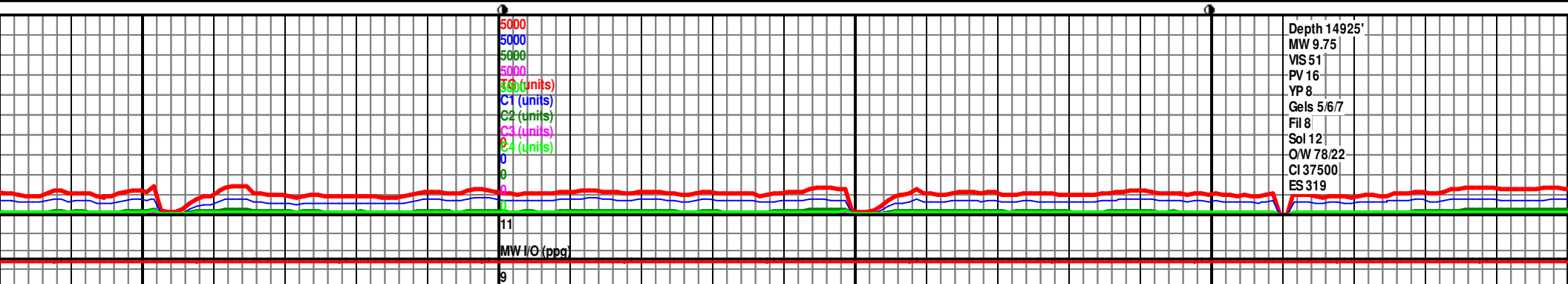
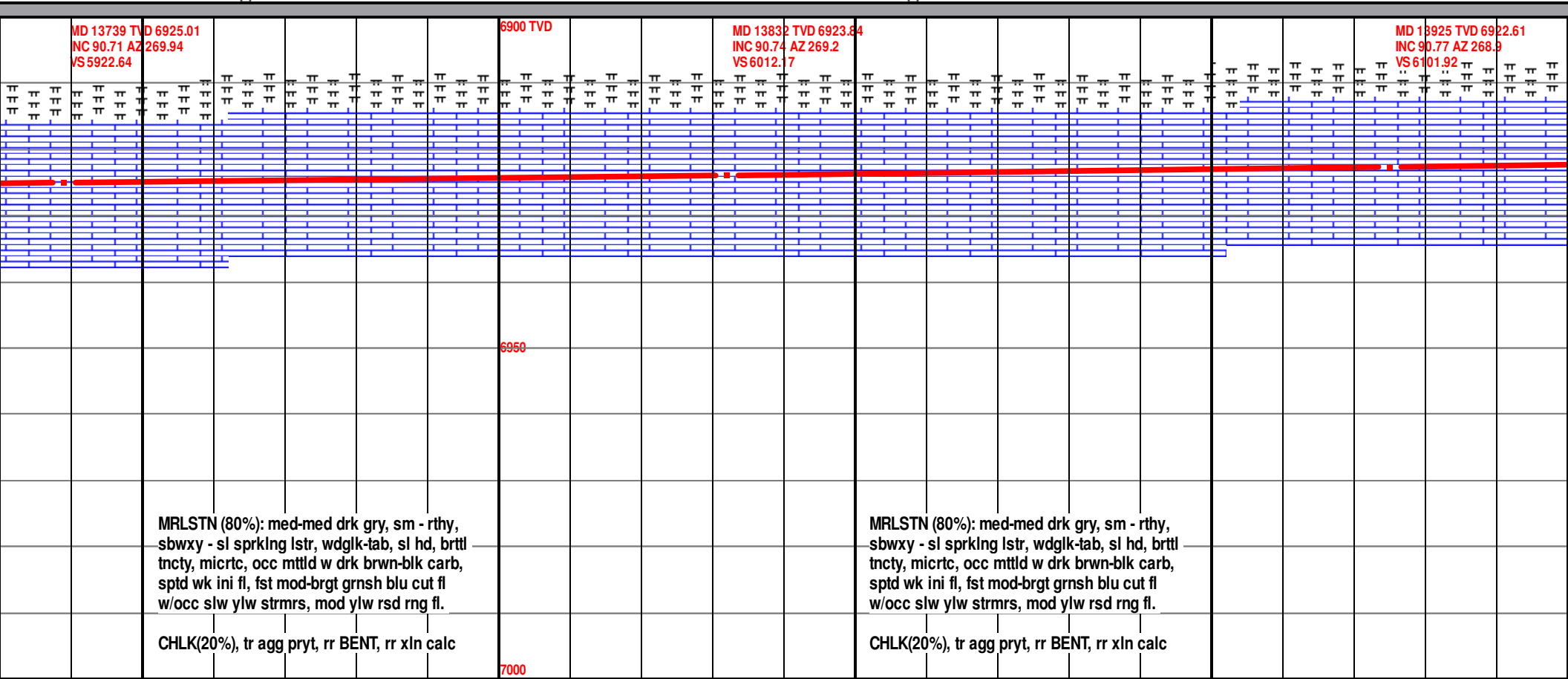




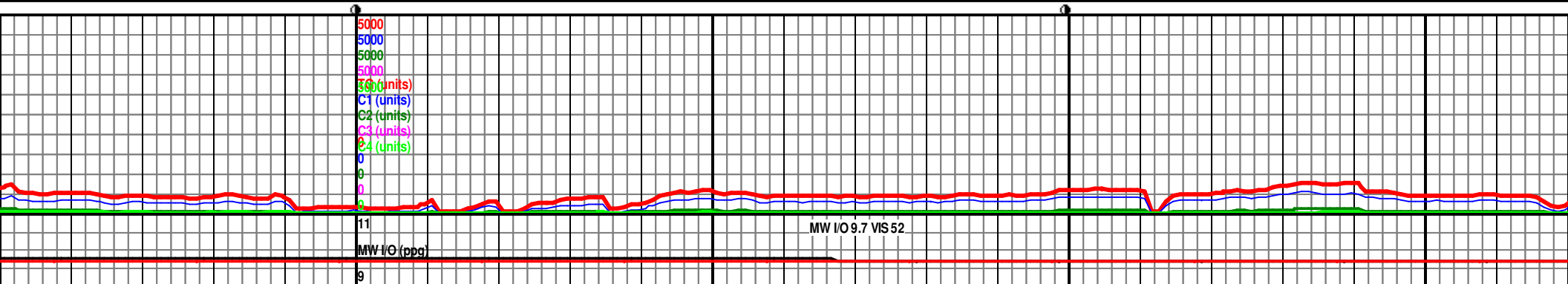
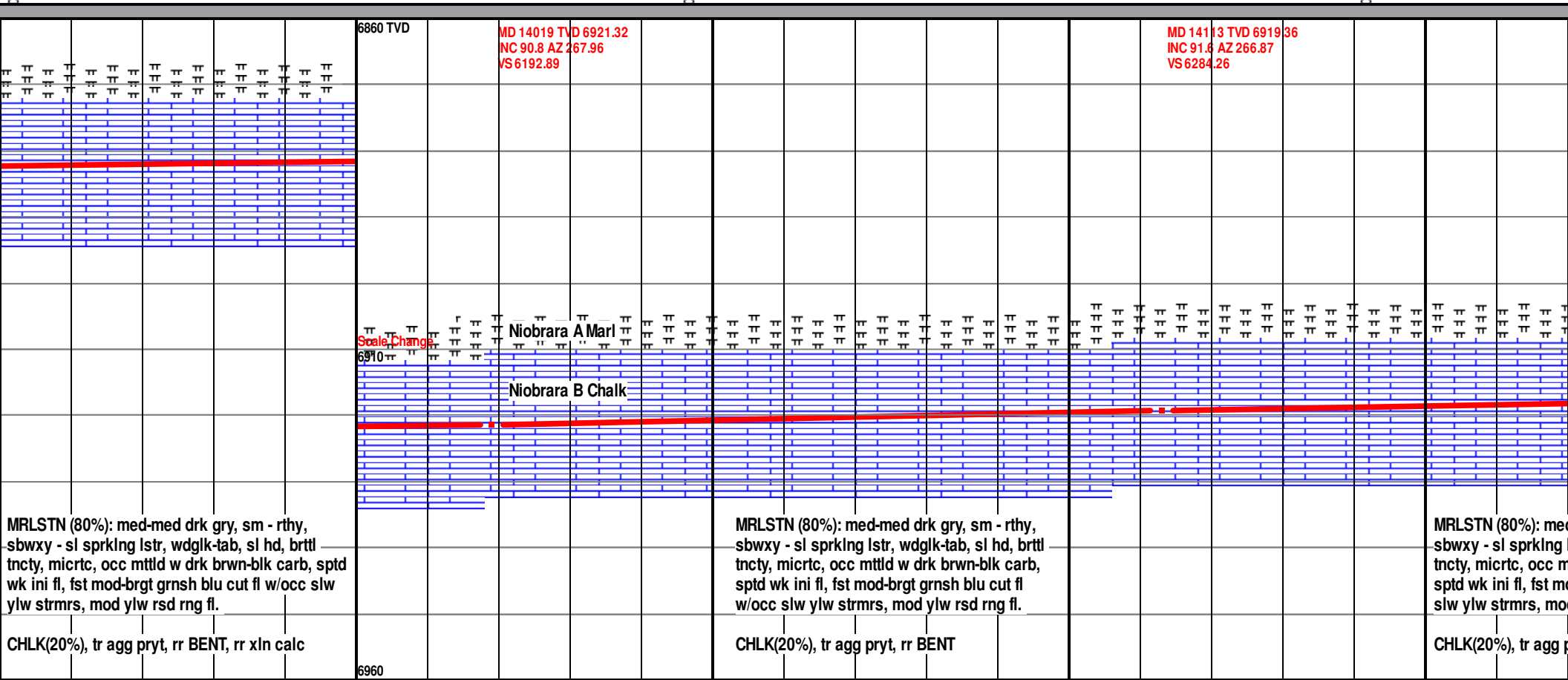
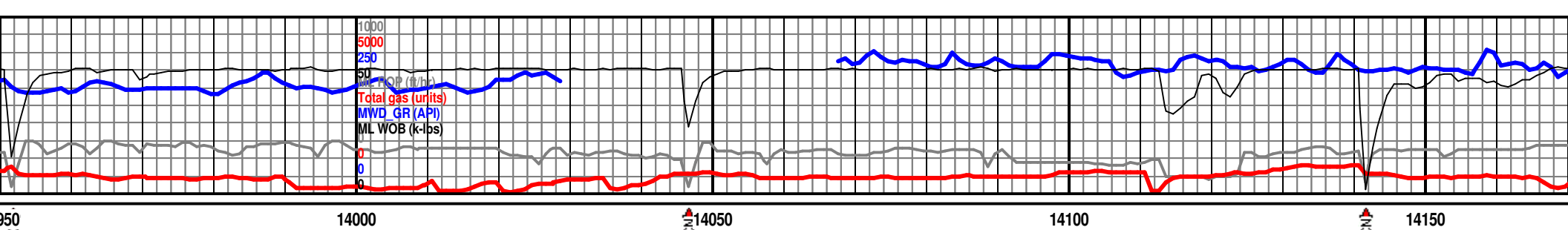




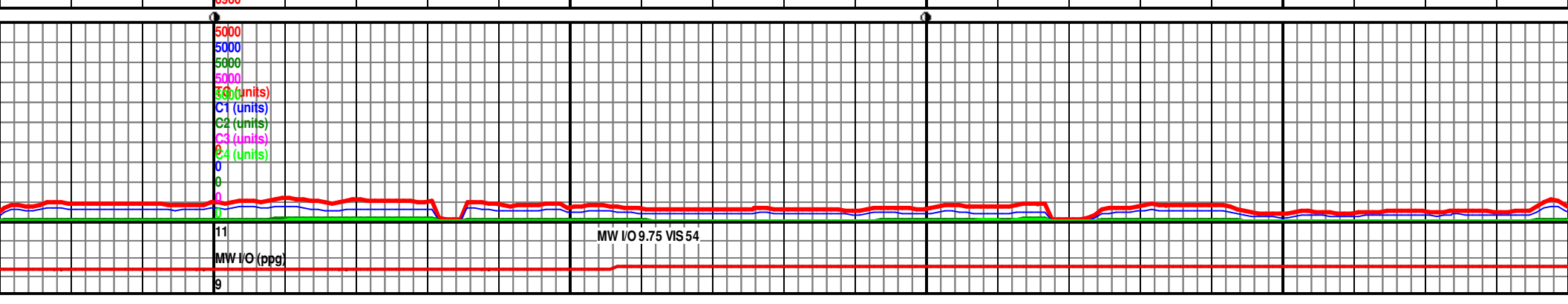
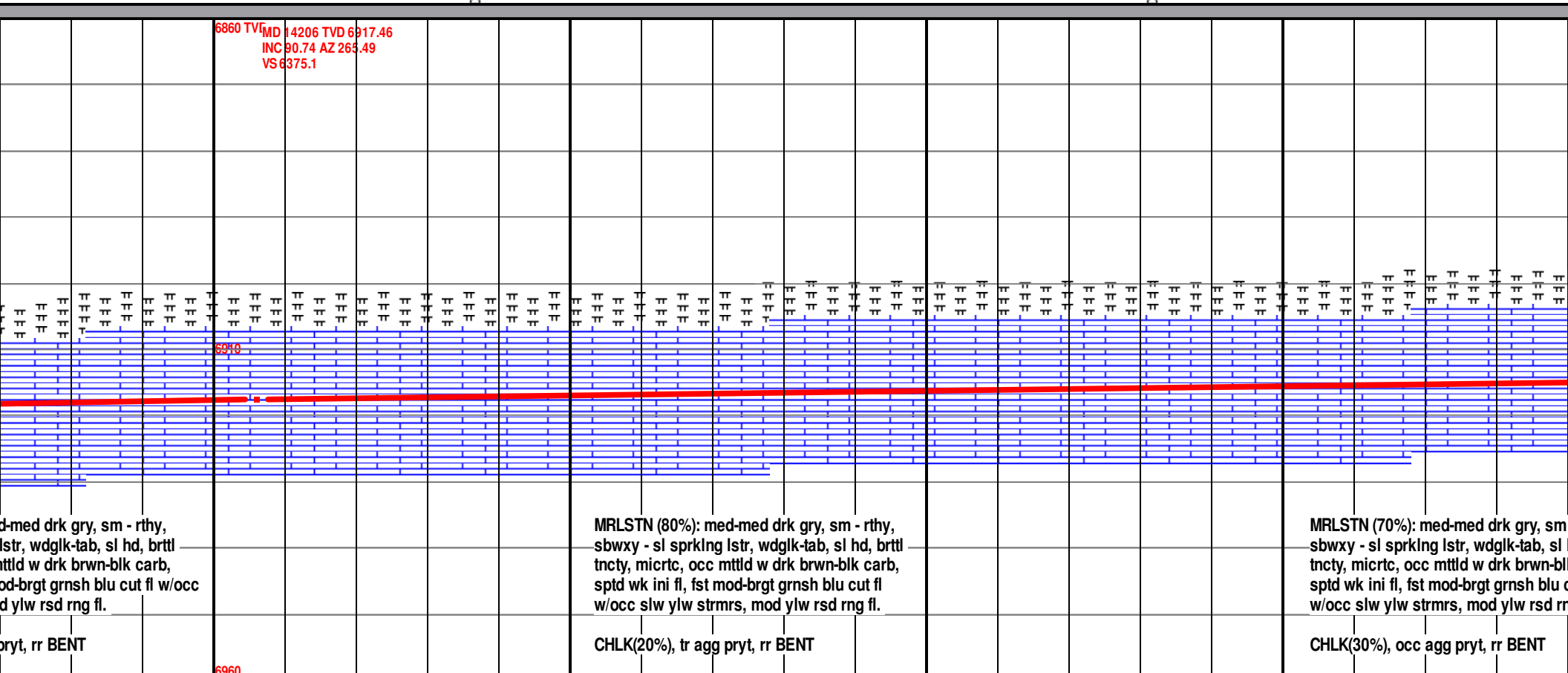
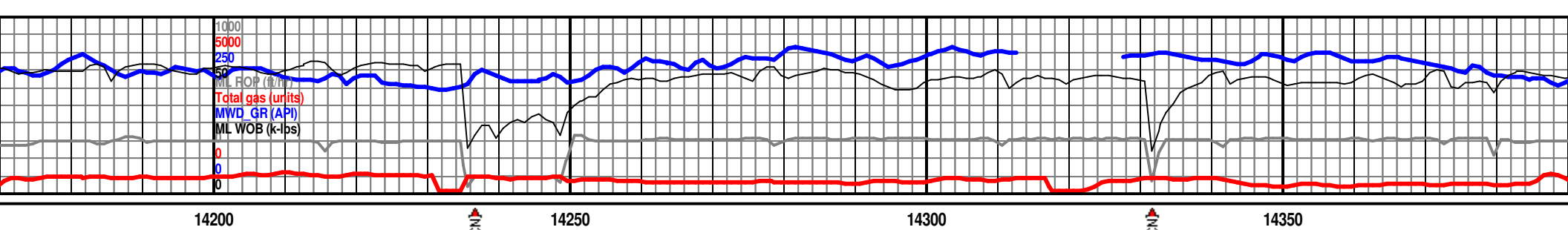




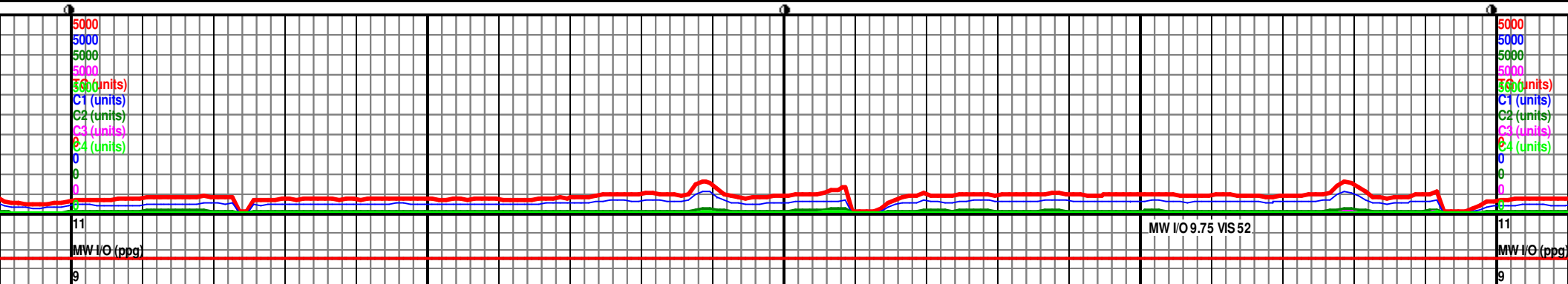
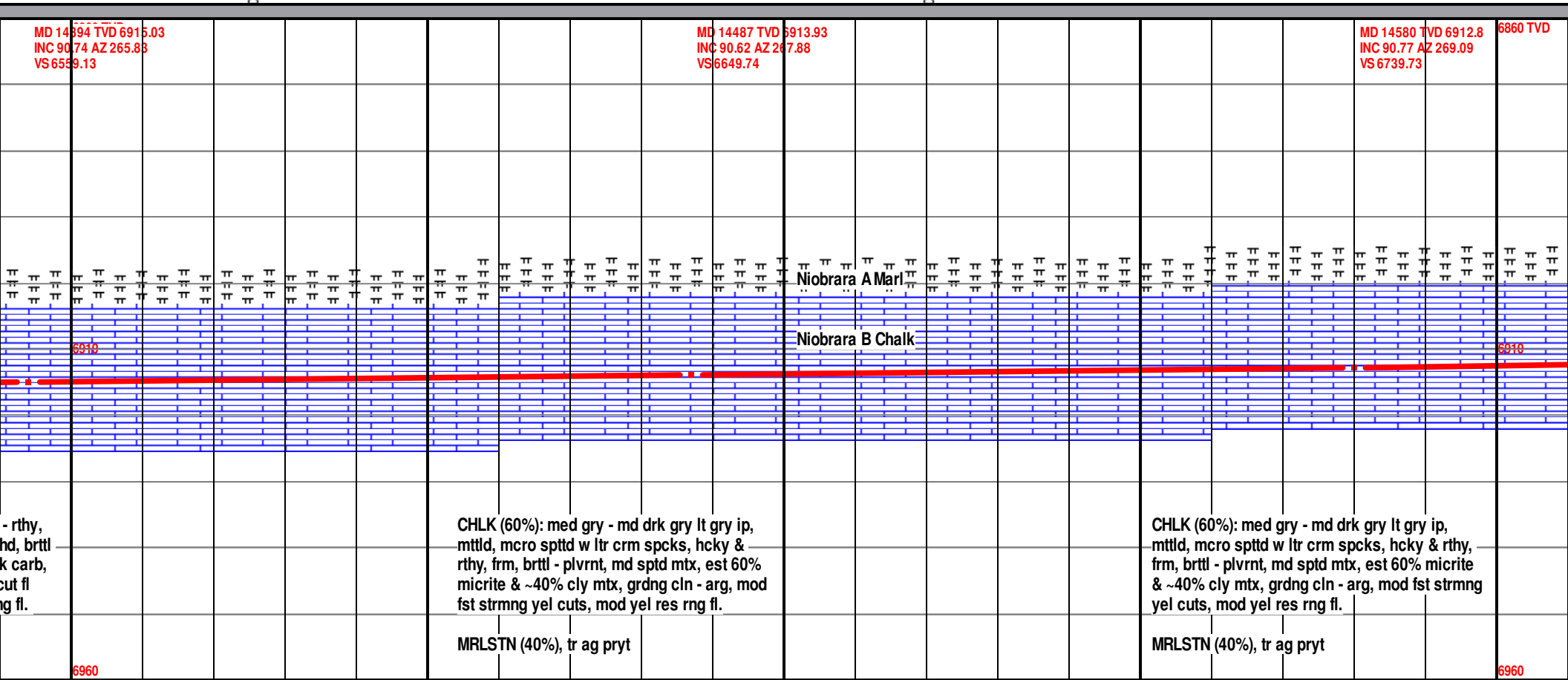




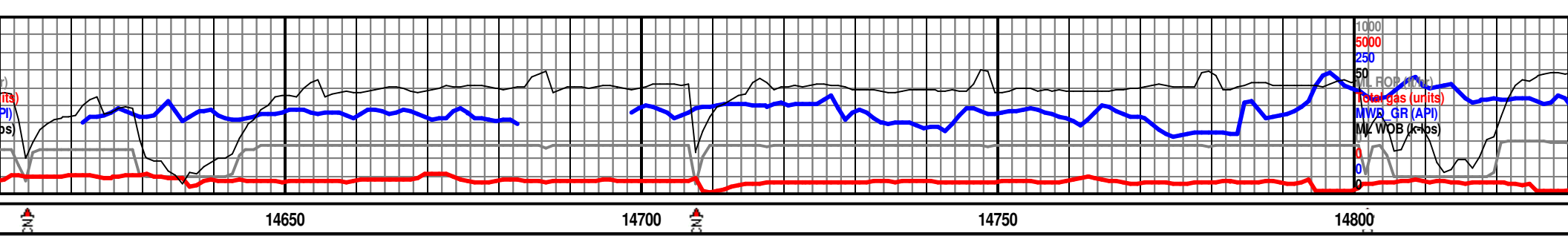








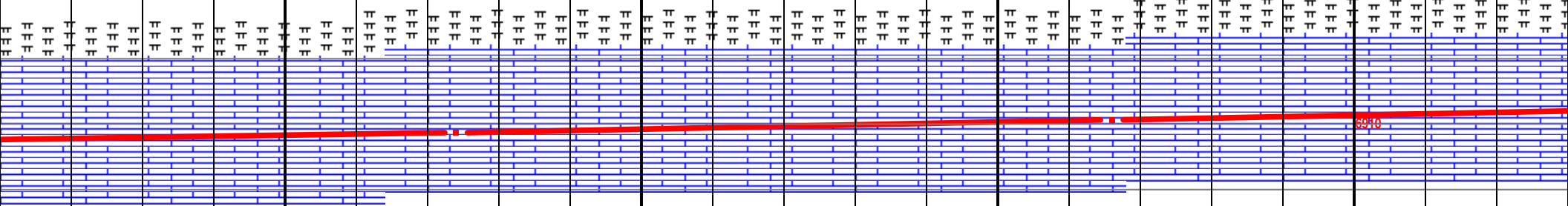




MD 14574 TVD 6911.21  
INC 91.17 AZ 270.55  
VS 6830.1

MD 14766 TVD 6909.3  
INC 91.2 AZ 271.19  
VS 6918.06

6860 TVD



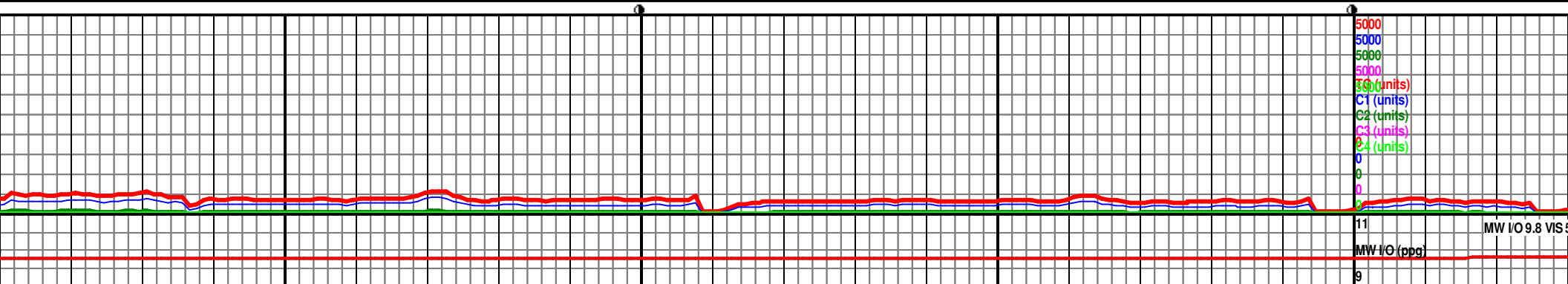
CHLK (60%): med gry - md drk gry lt gry ip,  
mtld, micro spttd w ltr crm spcks, hcky & rthy,  
frm, brttl - plvrnt, md sptd mtx, est 60% micrite  
& ~40% cly mtx, grdng cln - arg, mod fst  
strmg yel cuts, mod yel res rng fl.

MRLSTN (40%), tr ag pryt

CHLK (60%): med gry - md drk gry lt gry ip,  
mtld, micro spttd w ltr crm spcks, hcky & rthy,  
frm, brttl - plvrnt, md sptd mtx, est 60% micrite  
& ~40% cly mtx, dom arg grdng - cln, mod fst  
strmg yel cuts, mod yel res rng fl.

MRLSTN (40%), tr ag pryt

6960

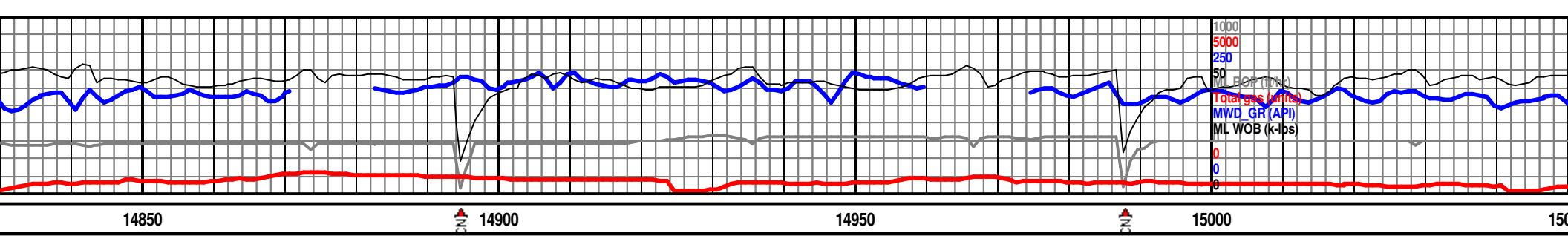


MW I/O 9.8 ppg

MW I/O (ppg)

9



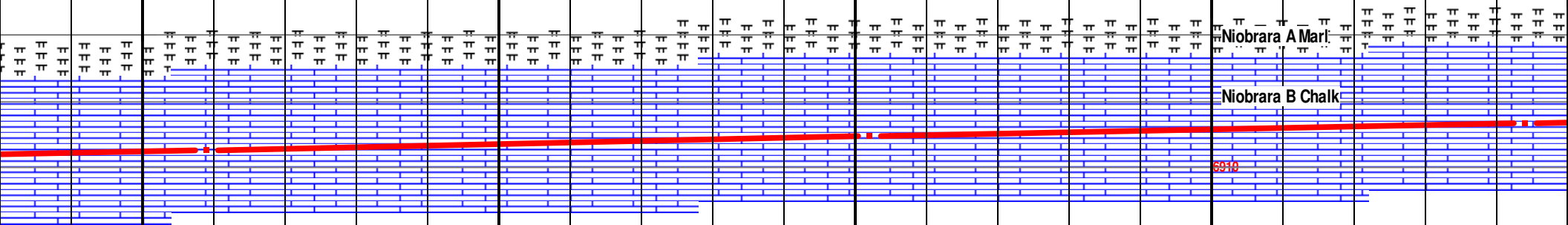


MD 14859 TVD 6907.31  
INC 91.26 AZ 270.78  
VS 7006.93

MD 14952 TVD 6905.29  
INC 91.23 AZ 270.39  
VS 7095.98

6860 TVD

MD 15000 TVD 6903.29  
INC 91.23 AZ 270.39  
VS 7180.93



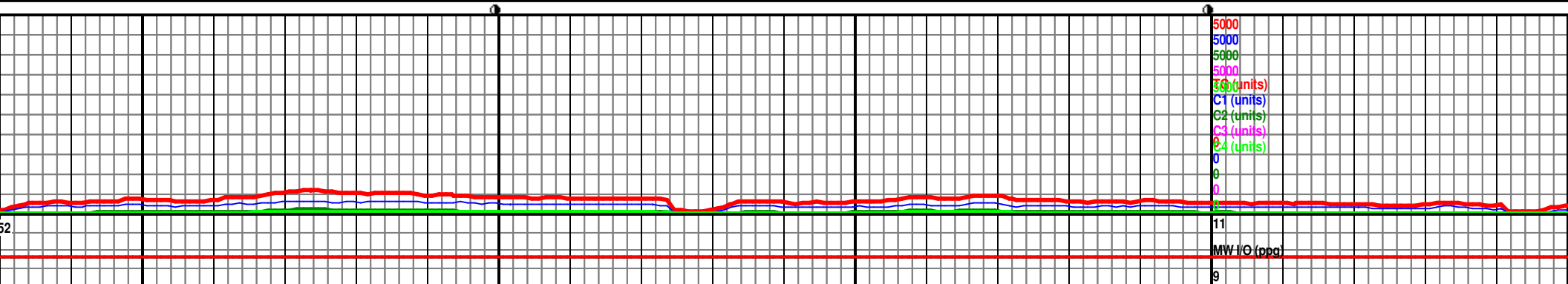
CHLK (60%): med gry - md drk gry lt gry ip,  
mtld, mcro spttd w ltr crm spcks, hcky & rthy,  
frm - hrd, brttl - plvrnt, md sptd mtx, est 60%  
micrite & ~40% cly mtx, dom arg grdng - cln,  
mod fst strmgng yel cuts, mod yel res rng fl.

MRLSTN (40%), tr ag pryt

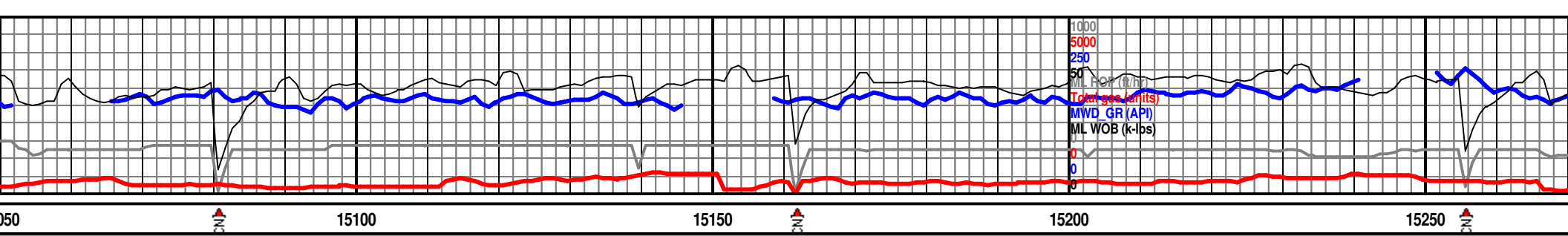
CHLK (80%): med gry - md drk gry lt gry ip,  
mtld, mcro spttd w ltr crm spcks, hcky & rthy,  
frm, brttl - plvrnt, md sptd mtx, est 60%  
micrite & ~40% cly mtx, dom cln grdng to arg,  
mod fst strmgng yel cuts, mod yel res rng fl.

MRLSTN (20%), tr ag pryt

6960





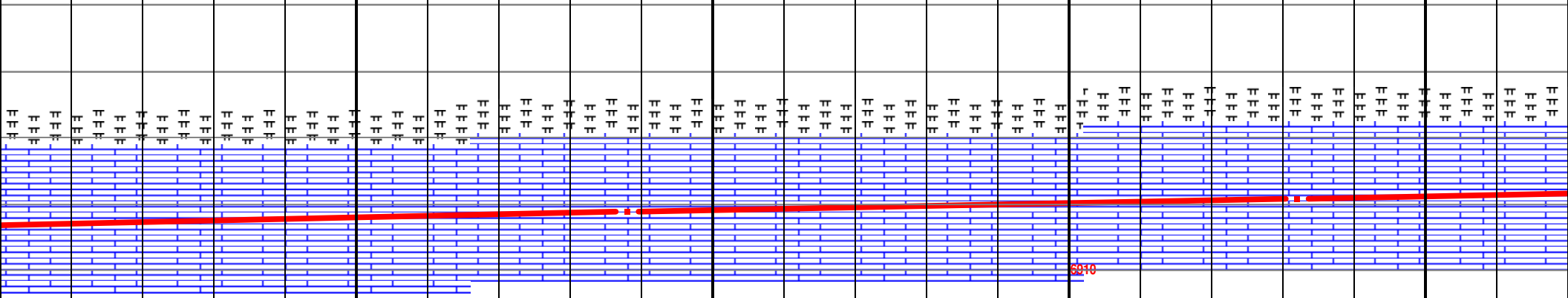


044 TVD 6903.31  
23 AZ 267.73  
4.73

MD 15138 TVD 6901.27  
INC 91.26 AZ 268.81  
VS 7275.75

6860 TVD

MD 15232 TVD 6899.18  
INC 91.29 AZ 267.28  
VS 7366.67



CHLK (80%): med gry - md drk gry lt gry ip, mtld, mcrto sptd w ltr crm spcks, hcky & rthy, frm, brttl - plvrnt, md sptd mtx, est 60% micrite & ~40% cly mtx, dom cln grdng to arg, mod fst strmgng yel cuts, mod yel res rng fl.

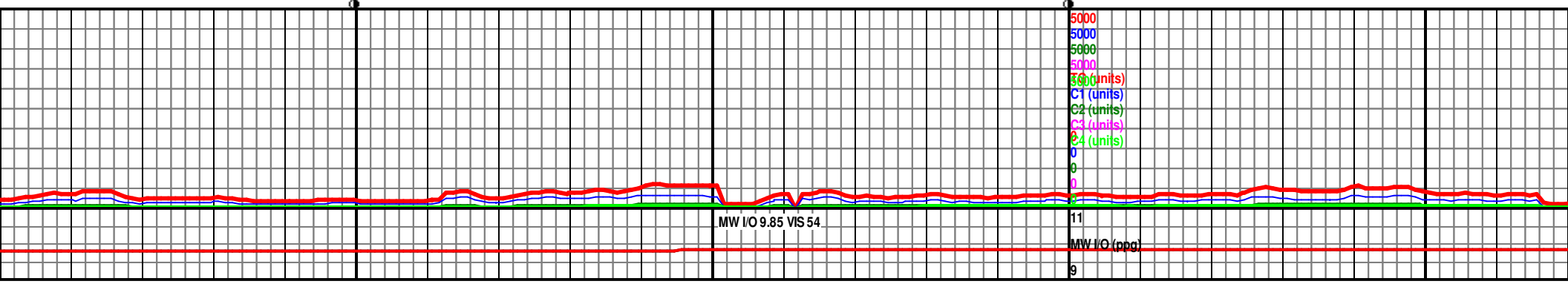
MRLSTN (20%), tr ag pryt

CHLK (80%): med gry - md drk gry lt gry ip, mtld, mcrto sptd w ltr crm spcks, hcky & rthy, frm, brttl - plvrnt, md sptd mtx, est 60% micrite & ~40% cly mtx, dom cln grdng to arg, mod fst strmgng yel cuts, mod yel res rng fl.

MRLSTN (20%), tr ag pryt

MRLSTN (60%): me sbwxy - sl sprkng tncy, micrtc, occ n sptd wk ini fl, fst m w/occ slw ylw str

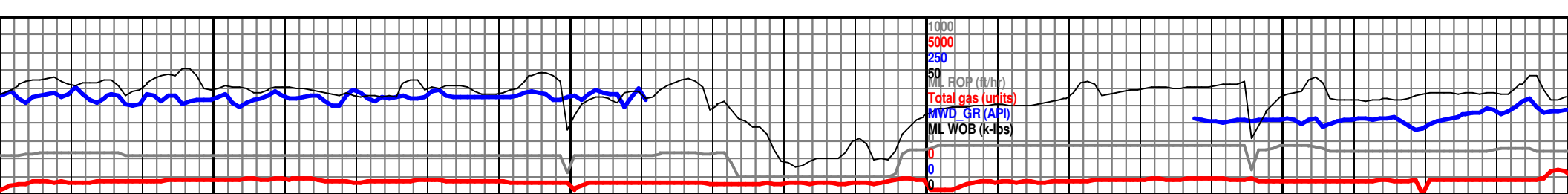
CHLK(40%), occ ag



MW I/O 9.85 VIS 54

MW I/O (ppg)





15300

15350

15400

15450

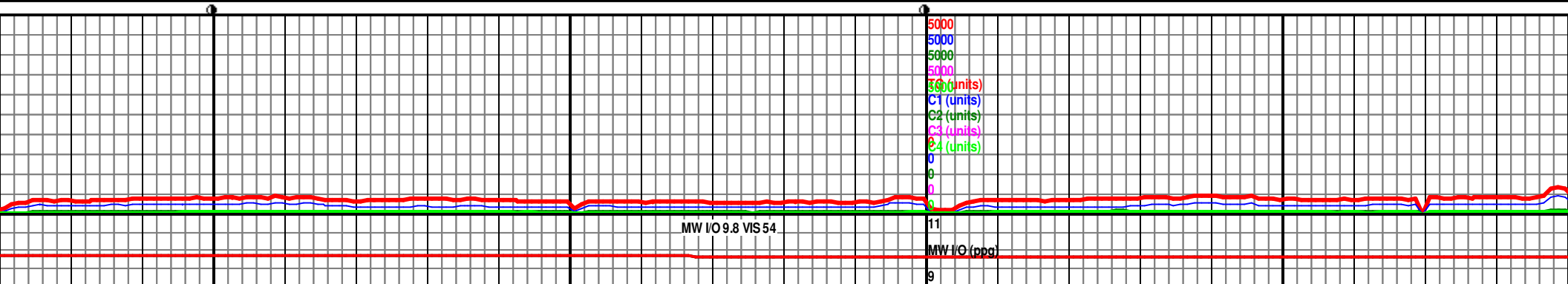
MD 15324 TVD 6897.25  
INC 91.11 AZ 265.35  
VS 7456.68

6860 TVD

<p>med-drk gry, sm - rthy, lstr, wdglk-tab, sl hd, brttl mtld w drk brwn-blk carb, mod-brgt grnsh blu cut fl ars, mod ylw rsd rng fl.</p> <p>g pryt, tr BENT</p>	<p>MRLSTN (70%): med-med drk gry, sm - rthy, sbwxy - sl sprklng lstr, wdglk-tab, sl hd, brttl tncy, micrtc, occ mtld w drk brwn-blk carb, sptd wk ini fl, fst mod-brgt grnsh blu cut fl w/occ slw ylw strms, mod ylw rsd rng fl.</p> <p>CHLK(30%), occ agg pryt, rr BENT</p>	<p>MRLSTN (60%): med-med drk gry, sm - sbwxy - sl sprklng lstr, wdglk-tab, sl h tncy, micrtc, occ mtld w drk brwn-blk sptd wk ini fl, fst mod-brgt grnsh blu cu w/occ slw ylw strms, mod ylw rsd rng</p> <p>CHLK(40%), occ agg pryt, rr BENT</p>	
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6910

6960



MW I/O 9.8 VIS 54

11

MW I/O (ppg)

9



[illegible]