

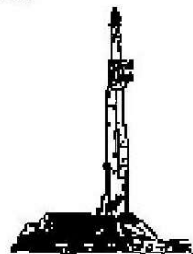
GOOLSBY BROTHERS
and associates, inc.

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



Geological Wellsite
Supervision

www.goolsbybrothers.com



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

Well Name: Greeley-Rothe Federal 34N-2B-L
API: 051234644800
Location: Section 1, T5N, R67W, Weld County, CO.
License Number:
Spud Date: August 5, 2018
Surface Coordinates: SESE T5N, R67W Sec 1, 963' FSL & 294' FEL
LAT 40.424197 LONG -104.833503
Bottom Hole Coordinates: SWSW T5N, R67W Sec 2, 412' FSL & 460' FWL (EST)
Ground Elevation (ft): 4,872' **K.B. Elevation (ft):** 4,892'
Logged Interval (ft): 6,800' **To:** 17,270' **Total Depth (ft):** 17,270' DMTD
Formation: Pierre Shales / Sands, Sharon Springs, Niobrara B Chalk (Target)
Type of Drilling Fluid: FW Surface, OBM Curve & Lateral

Region: Wattenberg
Drilling Completed: August 8, 2018

Printed by HORIZONTAL.LOG from WellSight Systems 1-800-447-1534 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)
Address: 575 Union Blvd. Suite 208,
Lakewood CO. 80228
Tel 303-618-7736

Logs

PULSE MWD GR from 1,836'- 17,255' MD

Casing

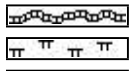
9 5/8" Surface Casing set @ 1,827' MD

5 1/2" Production Casing set @ 17,256' MD

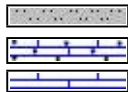
Comments

- 1) Drilling Contractor: Precision Drilling, Rig #462
Toolpusher: Cody Teeter, Joseph Credeur
- 2) Company Man: Steve Wilson, Buddy Davis
Lovell Young, Tony Pershall
- 3) Mud Company : Anchor USA
Engineer: Tim Pattison, James Eckhardt
- 4) Directional Drilling: Baker Hughes Directional
Rotary Steerable BHA
Drillers: Dustin Tissaw, Matthew Leopold
- 5) Gas Equipment: Pason Gas Analyzer (Spectrometer)
- 6) SRC Geologist: Tony Williams

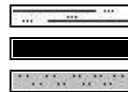
ROCK TYPES



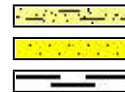
Bent
Mrlst
Shale



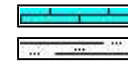
Sltst
Carb chalk
Chalk



Sltly sh
Coal
Sltst



Arg_ss
Ss
Carb sh



Ls
Sltly sh

ACCESSORIES

MINERAL

Anhy
 Arggrn
 Arg
 Bent
 Bit
 Breclfrag
 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
 Sltstg
 Ssstg

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

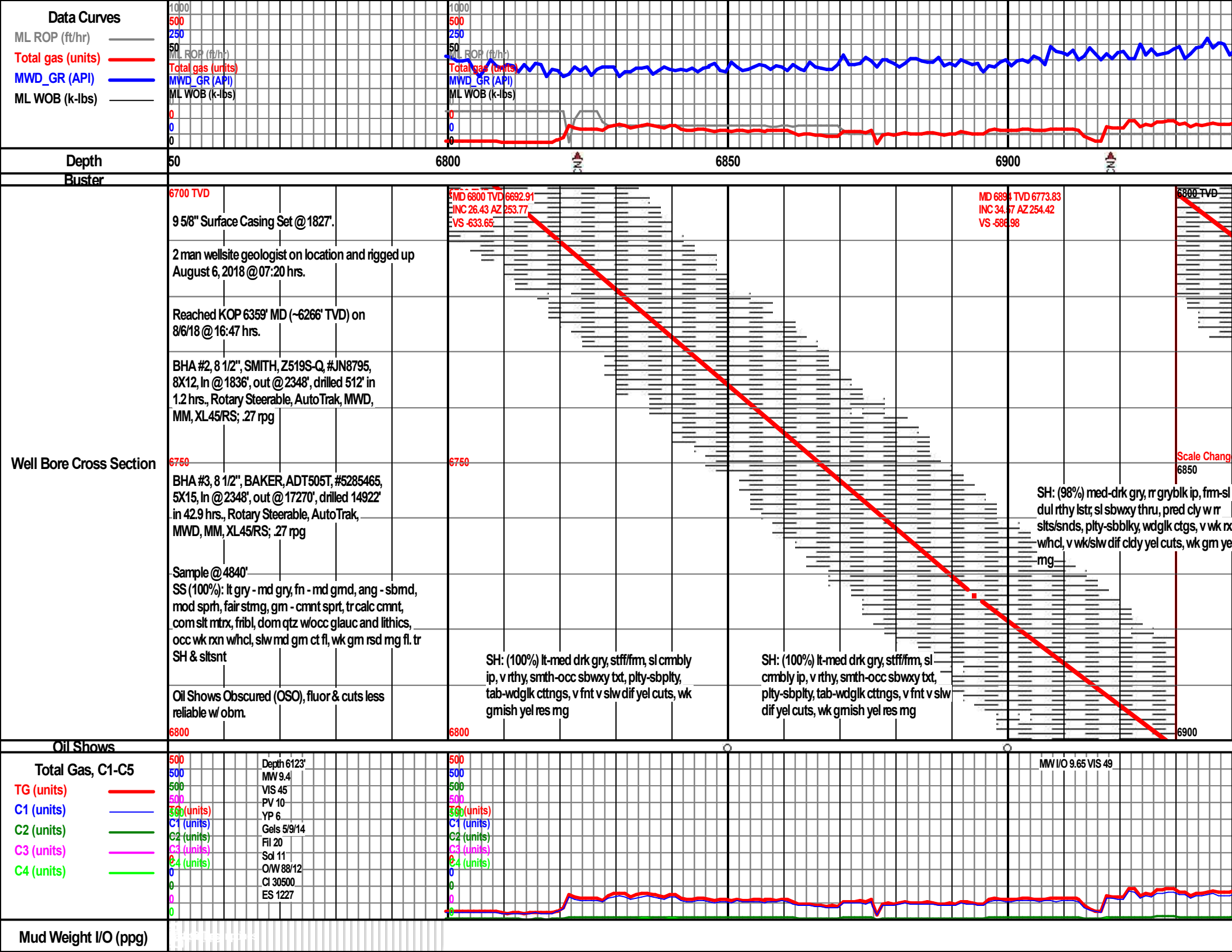
INTERVALS

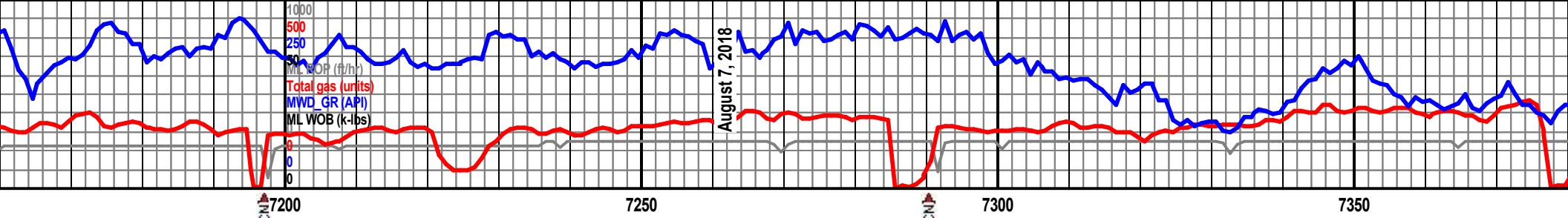
Core
 Dst

EVENTS

Casing shoe_hzl
 Trip_point_1
 Off bottom
 conn

Survey(mwd)
 Survey(red)
 bit





MD 7174 TVD 6948.11
INC 65.51 AZ 265.59
VS -374.01

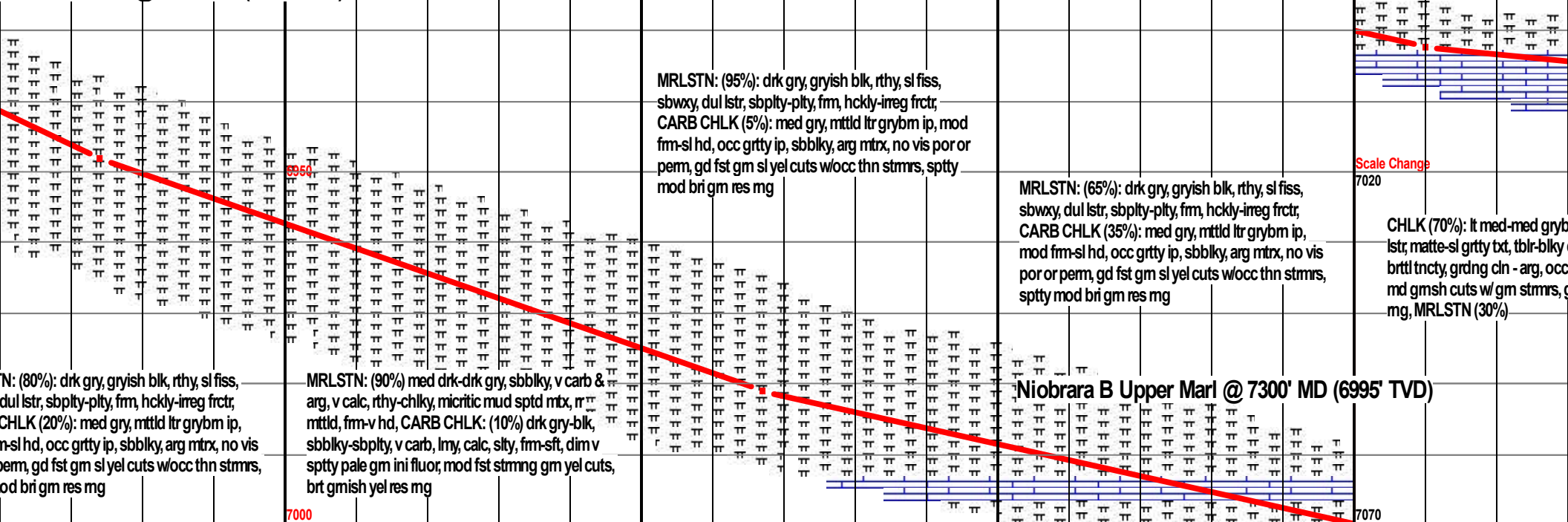
6900 TVD

MD 7267 TVD 6981.13
INC 72.88 AZ 268.52
VS -287.17

6970 TVD

MD 7360 TVD 7002.22
INC 80.88 AZ 269.84
VS -196.83

A Chalk Base @ 7126' MD (6925' TVD)



N: (80%): drk gry, gryish blk, rthy, sl fiss,
dul lstr, sbpity-plty, frm, hckly-irreg frctr,
CHLK (20%): med gry, mttld ltr grybm ip,
n-sl hd, occ grtty ip, sbbiky, arg mtrx, no vis
por or perm, gd fst gm sl yel cuts w/occ thn stmrs,
mod bri gm res mg

MRLSTN: (90%) med drk-drk gry, sbbiky, v carb &
arg, v calc, rthy-chlky, micritic mud sptd mtr, r
mttd, frm-v hd, CARB CHLK: (10%) drk gry-blk,
sbbiky-sbpity, v carb, lmy, calc, slty, frm-sft, dim v
sptty pale gm ini fluor, mod fst stmng gm yel cuts,
brt gmish yel res mg

MRLSTN: (95%): drk gry, gryish blk, rthy, sl fiss,
sbwxy, dul lstr, sbpity-plty, frm, hckly-irreg frctr,
CARB CHLK (5%): med gry, mttld ltr grybm ip, mod
frm-sl hd, occ grtty ip, sbbiky, arg mtrx, no vis por or
perm, gd fst gm sl yel cuts w/occ thn stmrs, sptty
mod bri gm res mg

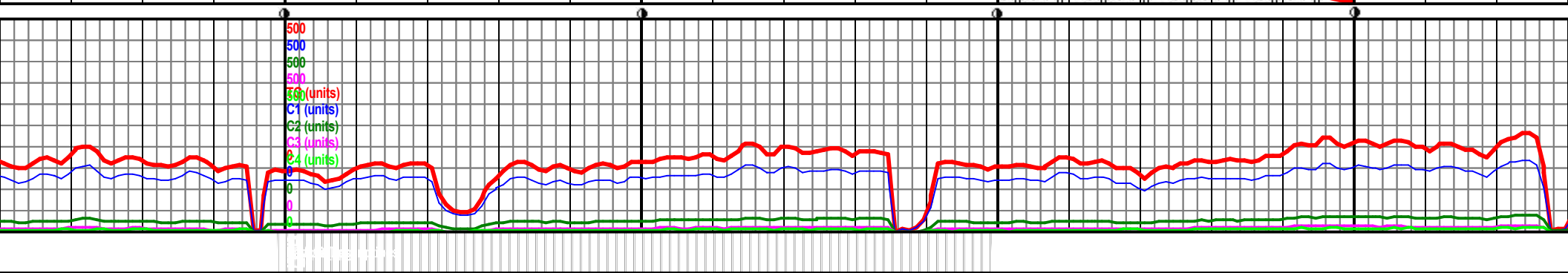
MRLSTN: (65%): drk gry, gryish blk, rthy, sl fiss,
sbwxy, dul lstr, sbpity-plty, frm, hckly-irreg frctr,
CARB CHLK (35%): med gry, mttld ltr grybm ip,
mod frm-sl hd, occ grtty ip, sbbiky, arg mtrx, no vis
por or perm, gd fst gm sl yel cuts w/occ thn stmrs,
sptty mod bri gm res mg

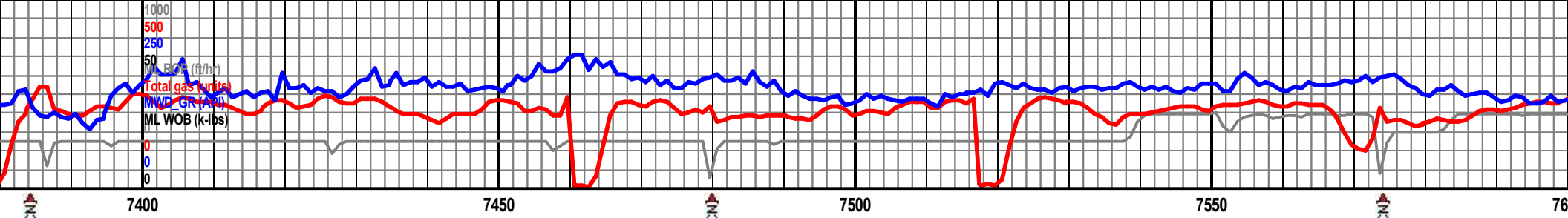
CHLK (70%): lt med-med grybl
lstr, matte-sl grtty txt, tblr-biky
brtl tncly, grding cln - arg, occ
md gmish cuts w/ gm stmrs, s
mg, MRLSTN (30%)

Niobrara B Upper Marl @ 7300' MD (6995' TVD)

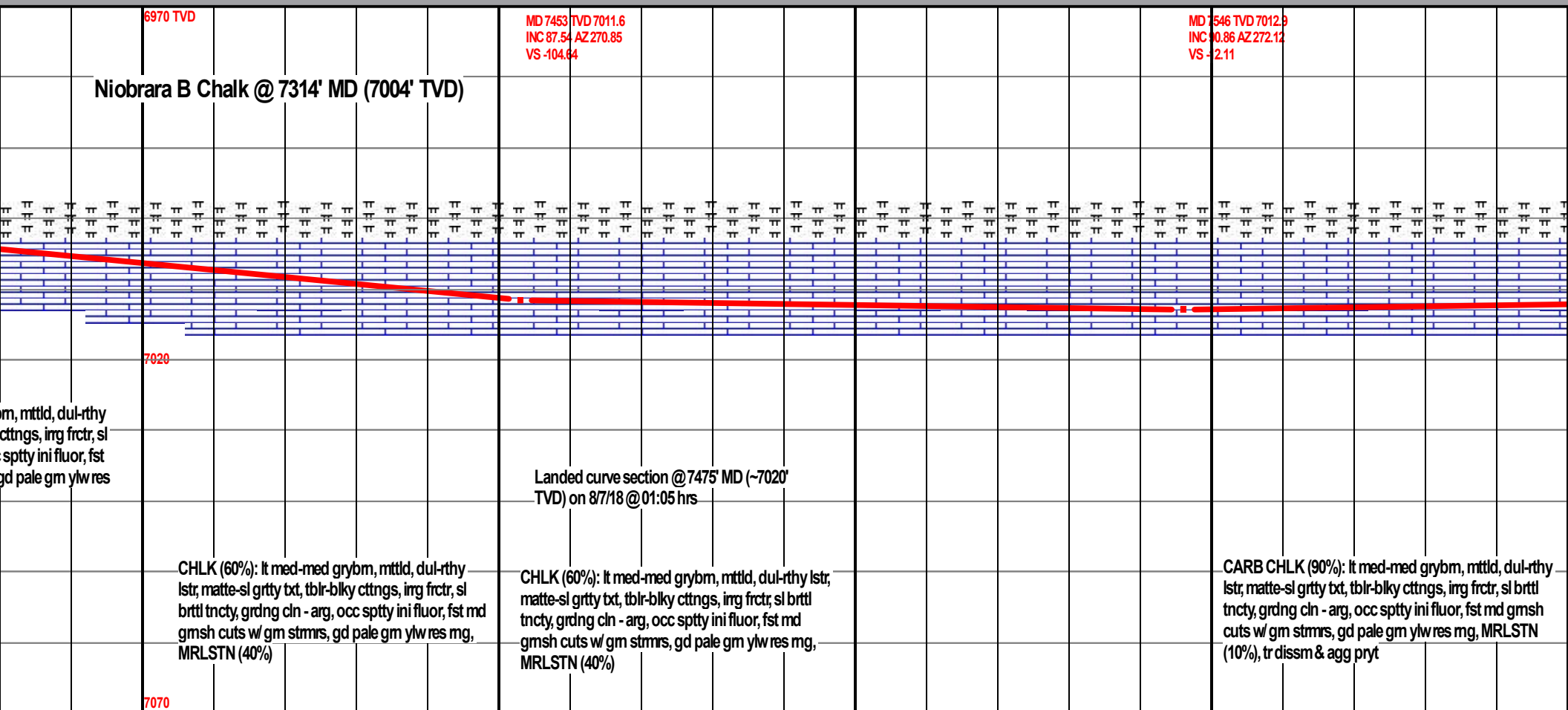
7000

7070





Niobrara B Chalk @ 7314' MD (7004' TVD)



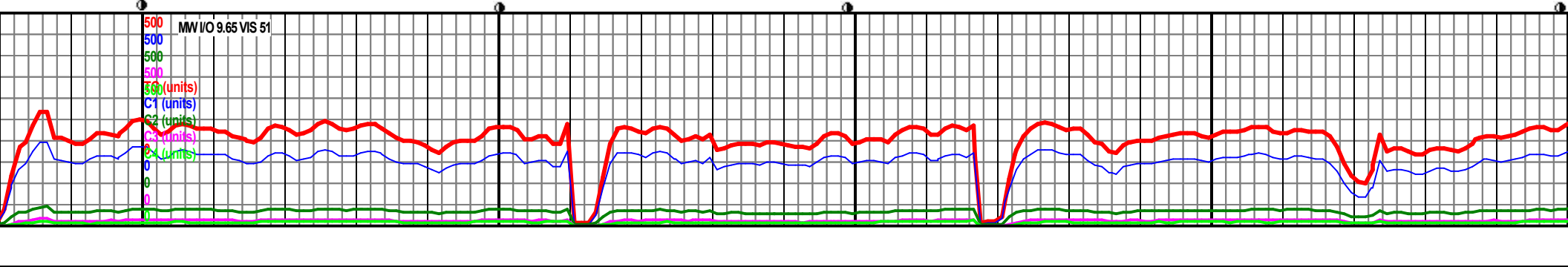
um, mttld, dul-rthy
ctngs, irg frctr, sl
sptty ini fluor, fst
gd pale gm ylw res

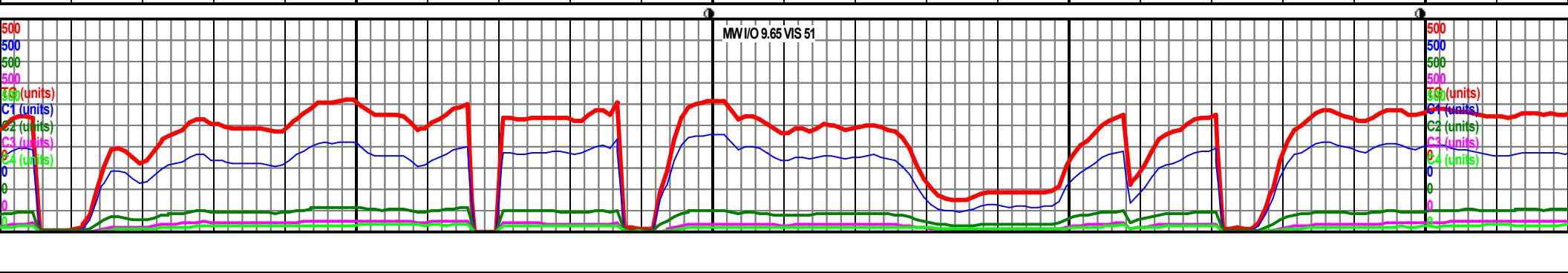
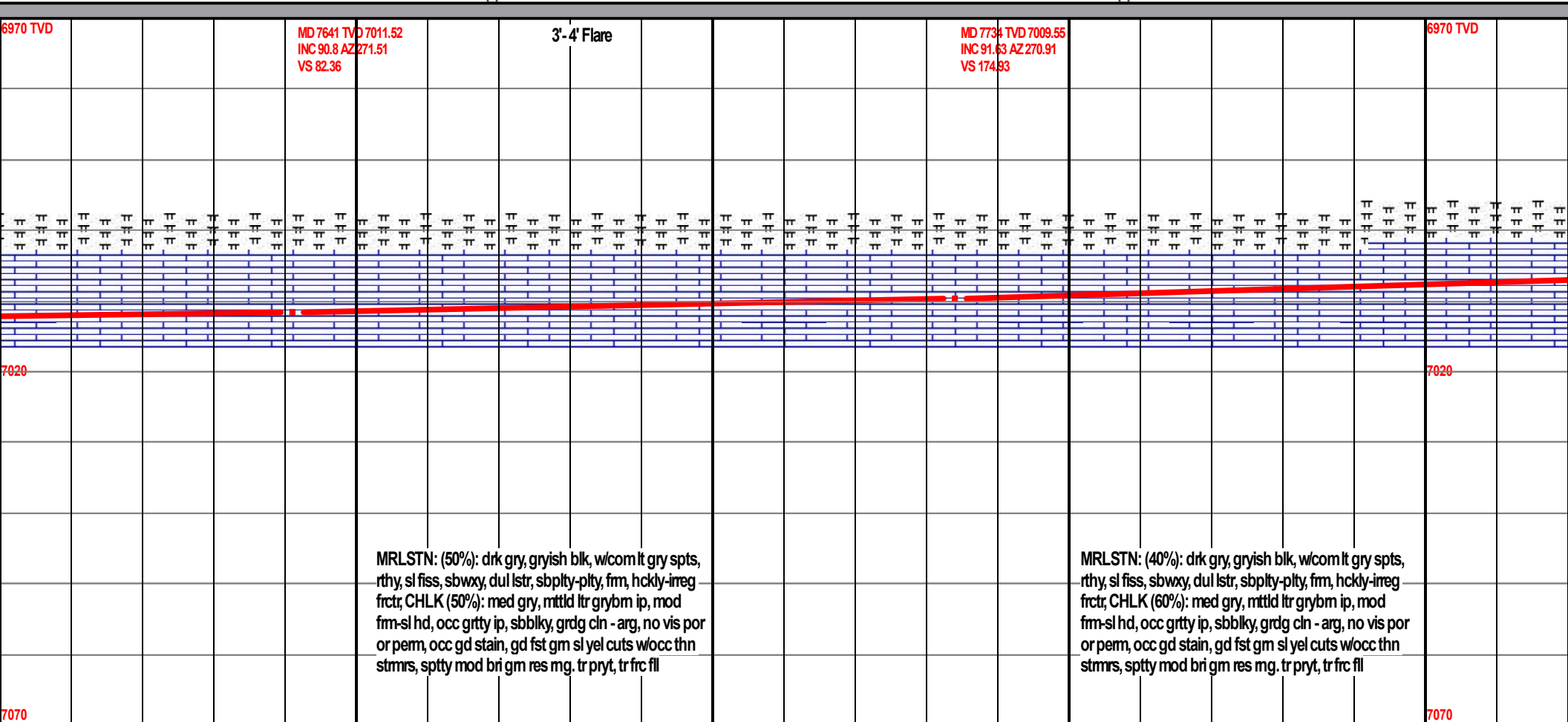
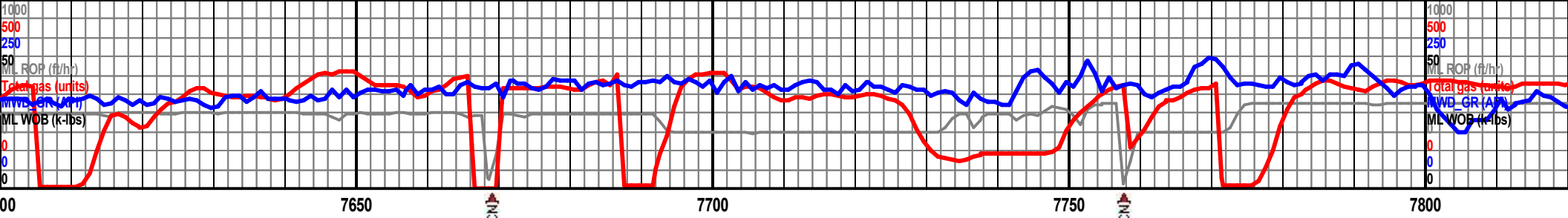
CHLK (60%): lt med-med grybm, mttld, dul-rthy
lstr, matte-sl grtty txt, tblr-blky ctngs, irg frctr, sl
brttl tncty, grdng cln - arg, occ sptty ini fluor, fst md
gmsh cuts w/ gm stmrs, gd pale gm ylw res mg,
MRLSTN (40%)

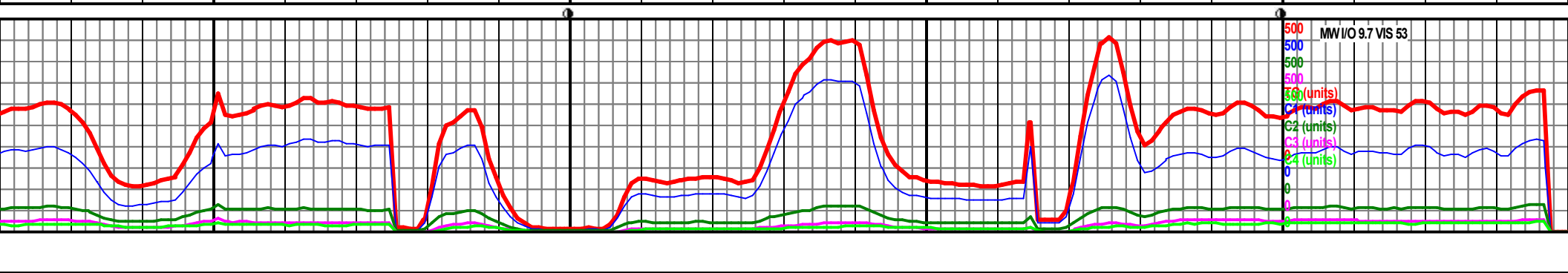
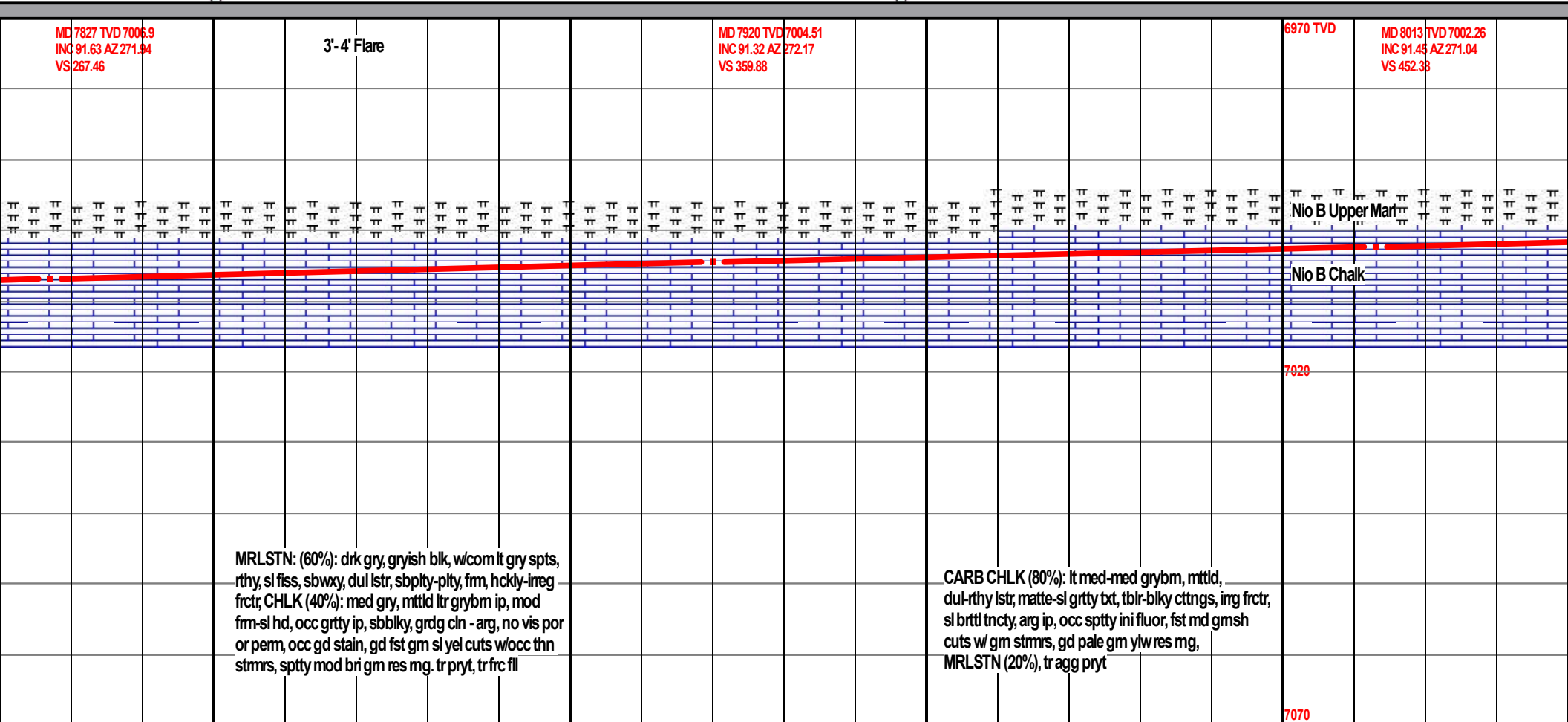
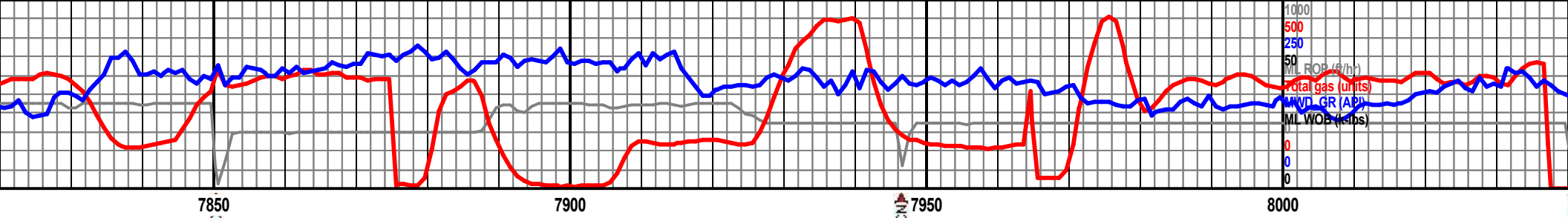
Landed curve section @ 7475' MD (~7020'
TVD) on 8/7/18 @ 01:05 hrs

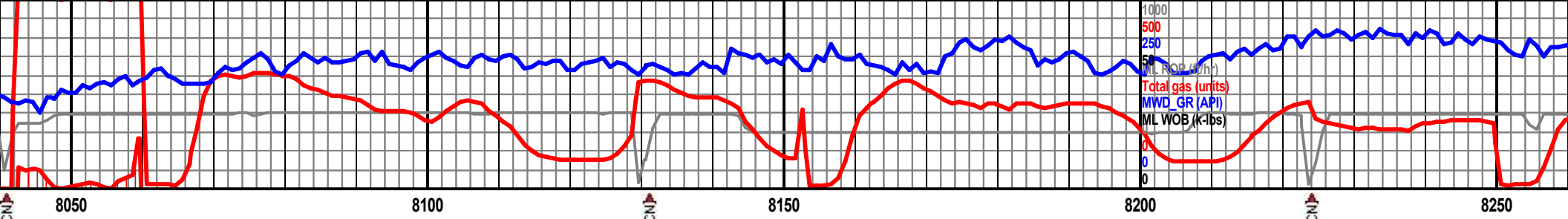
CHLK (60%): lt med-med grybm, mttld, dul-rthy lstr,
matte-sl grtty txt, tblr-blky ctngs, irg frctr, sl brttl
tncty, grdng cln - arg, occ sptty ini fluor, fst md
gmsh cuts w/ gm stmrs, gd pale gm ylw res mg,
MRLSTN (40%)

CARB CHLK (90%): lt med-med grybm, mttld, dul-rthy
lstr, matte-sl grtty txt, tblr-blky ctngs, irg frctr, sl brttl
tncty, grdng cln - arg, occ sptty ini fluor, fst md gmsh
cuts w/ gm stmrs, gd pale gm ylw res mg, MRLSTN
(10%), tr diss & agg pryt





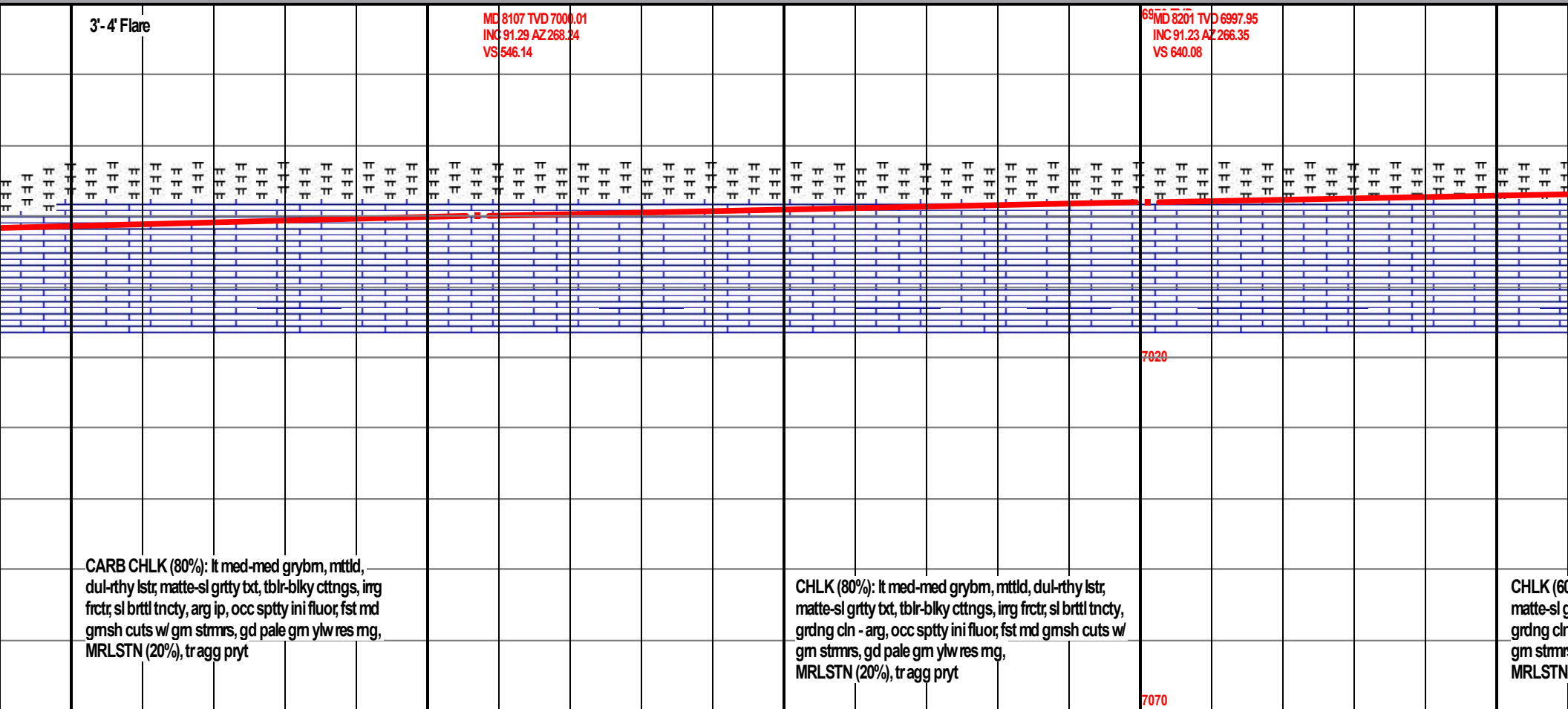




3'-4' Flare

MD 8107 TVD 7000.01
INC 91.29 AZ 268.24
VS 546.14

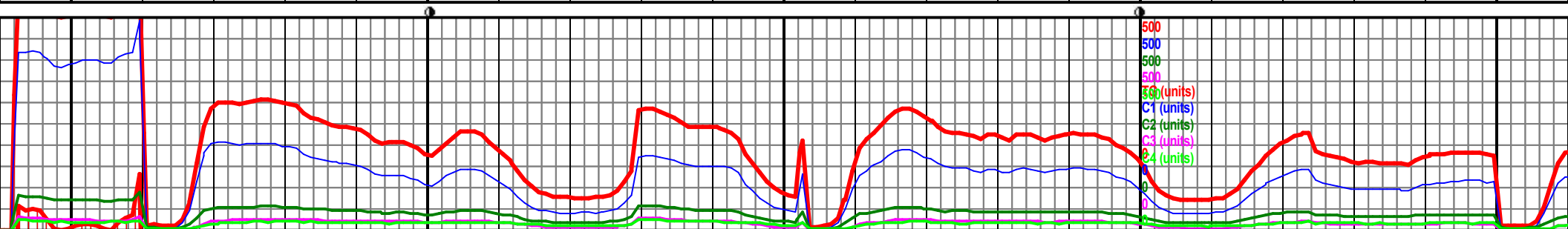
69	MD 8201 TVD 6997.95
	INC 91.23 AZ 266.35
	VS 640.08

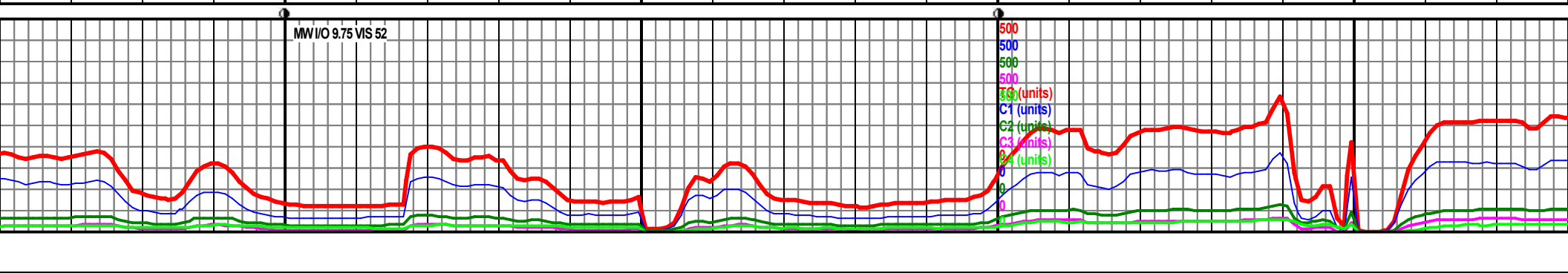
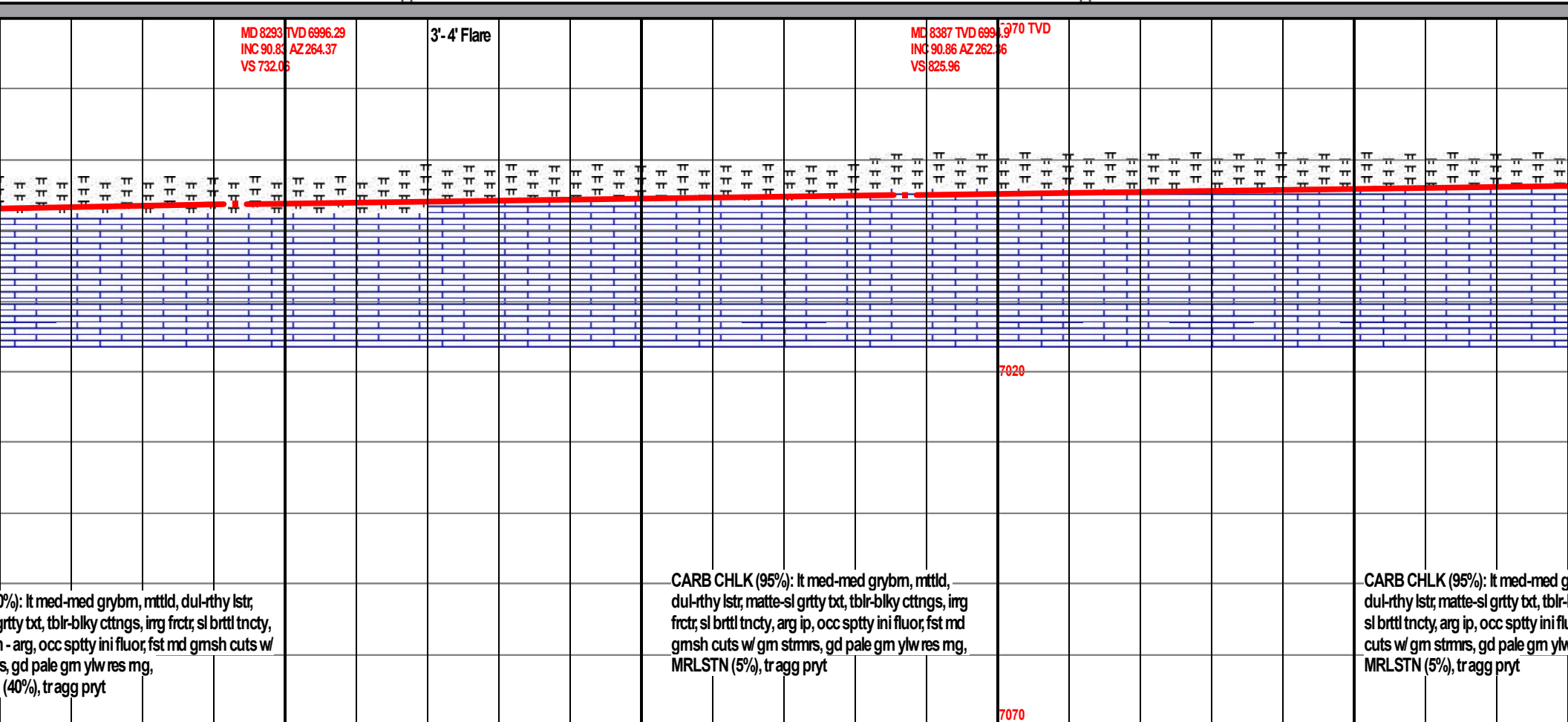
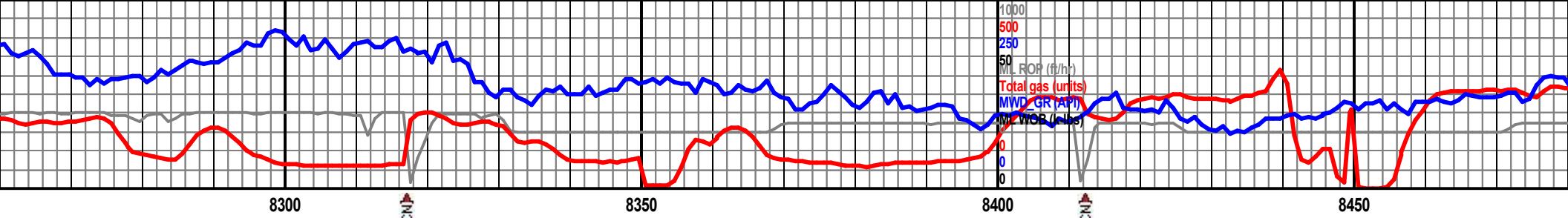


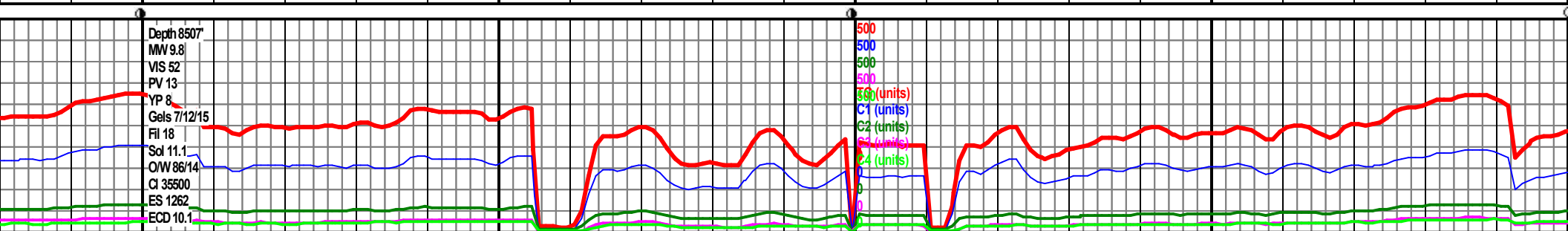
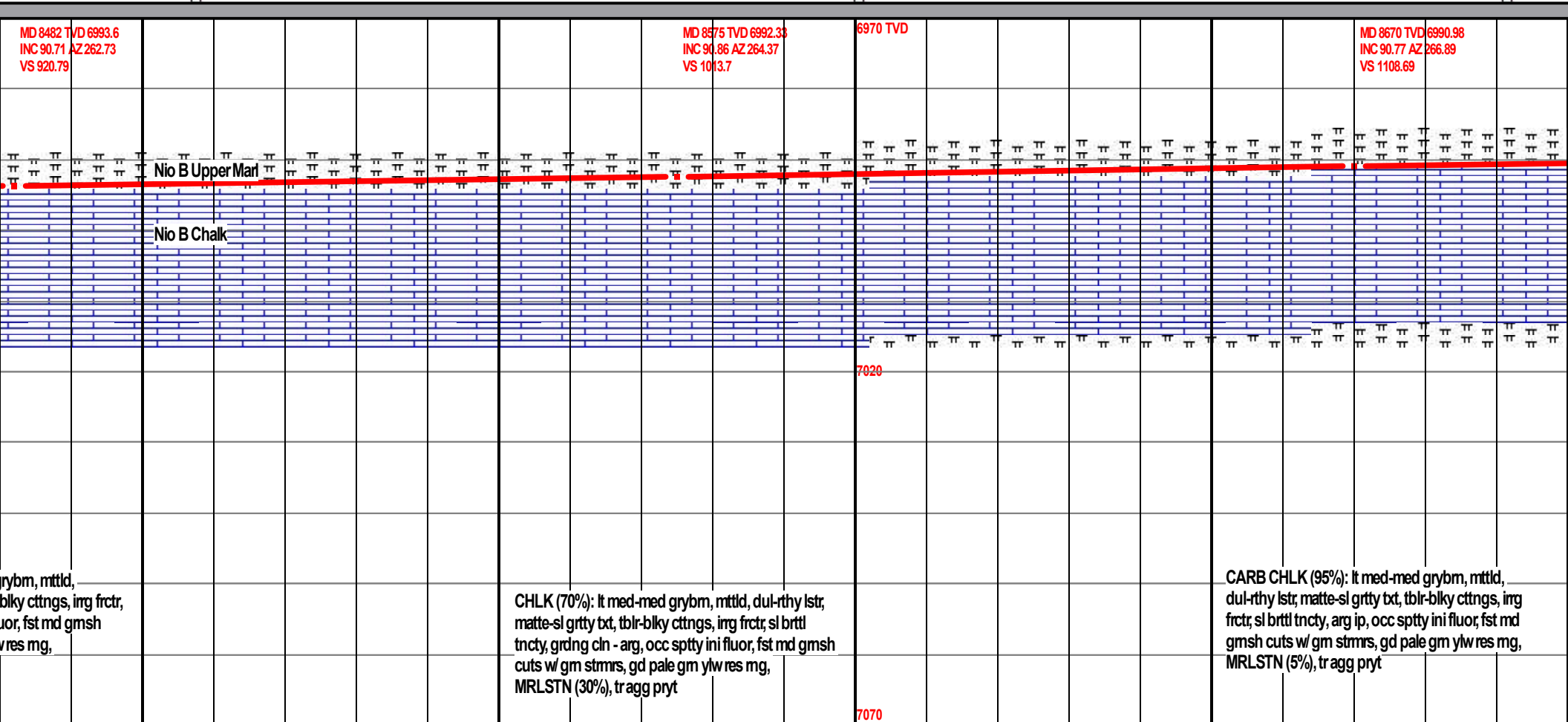
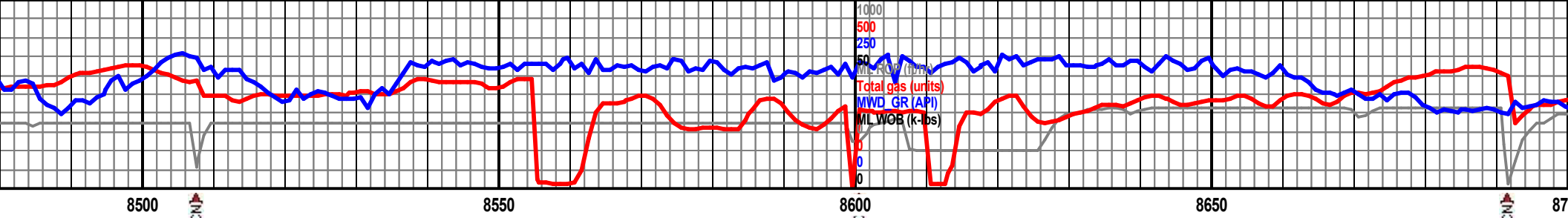
CARB CHLK (80%): lt med-med grybm, mittld, dul-rthy lstr, matte-sl grtty txt, tblr-bilky cting, irr frctr, sl brttl tncy, arg ip, occ sppty ini fluor, fst md gmsh cuts w/ gm stmrs, gd pale gm ylw res mg, MRLSTN (20%), tr agg pryt

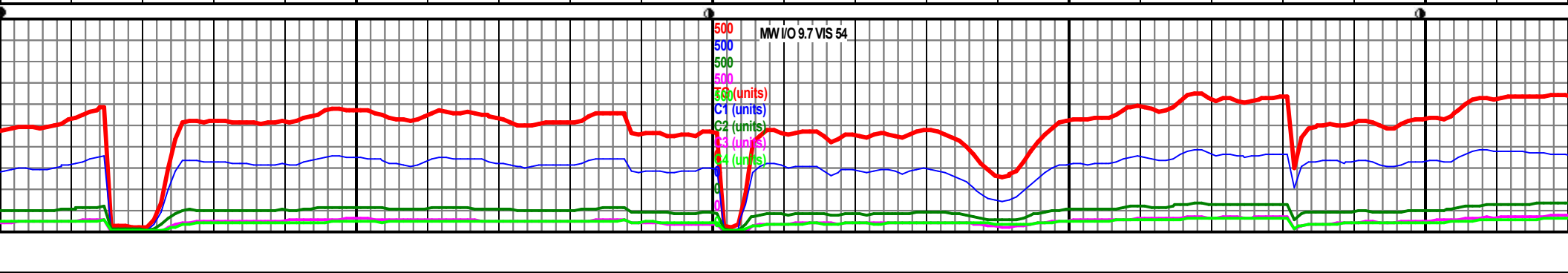
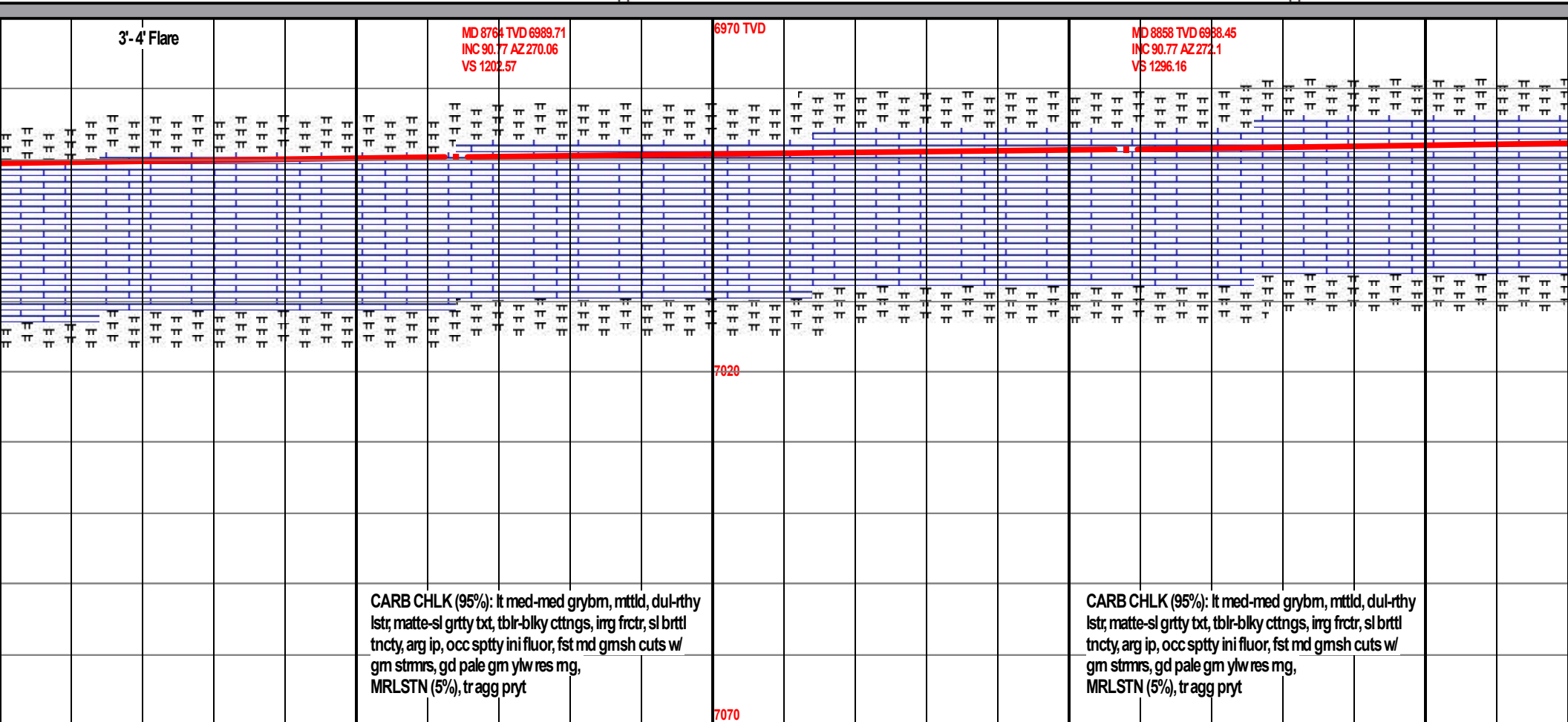
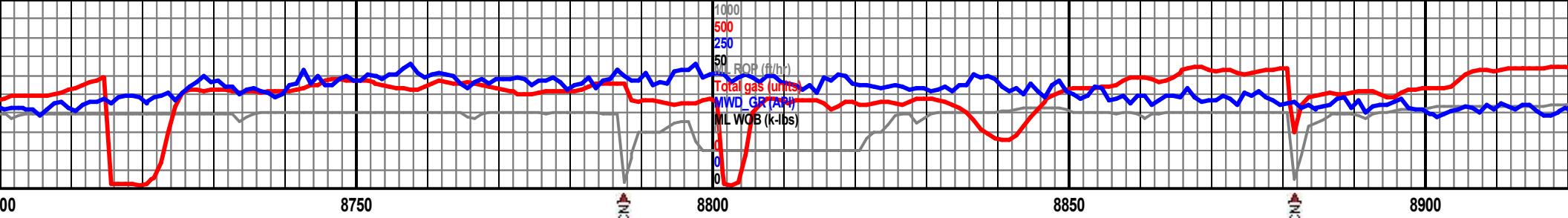
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grdng cin - arg, occ sppty ini fluor; fst md gmsh cuts w/
gm strms, gd pale gm ylw res mg,
MRLSTN (20%), tragg pryt

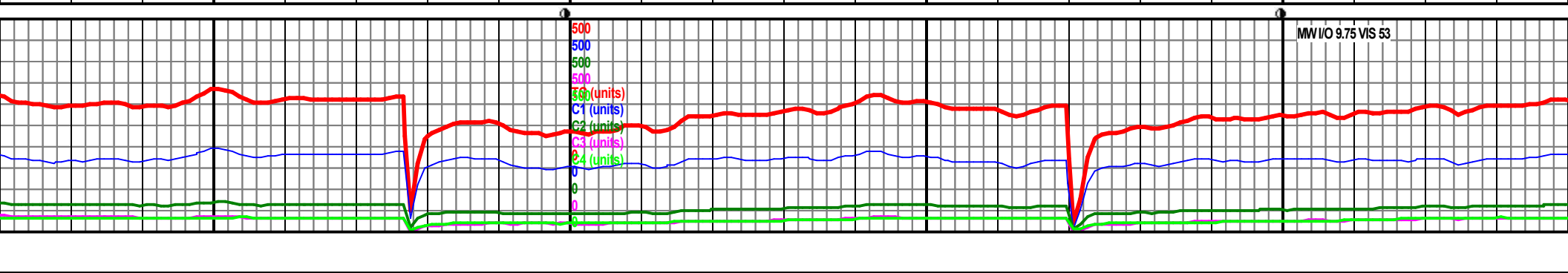
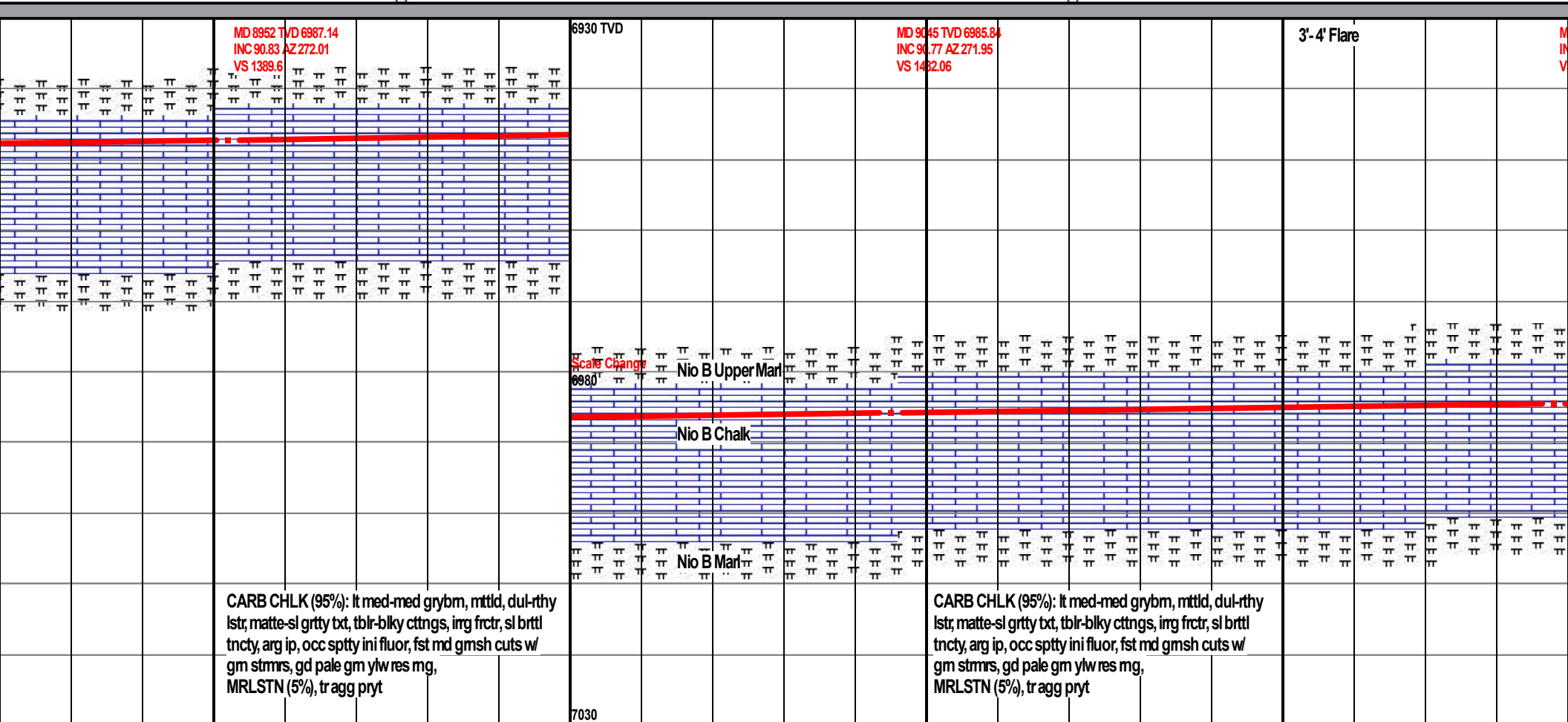
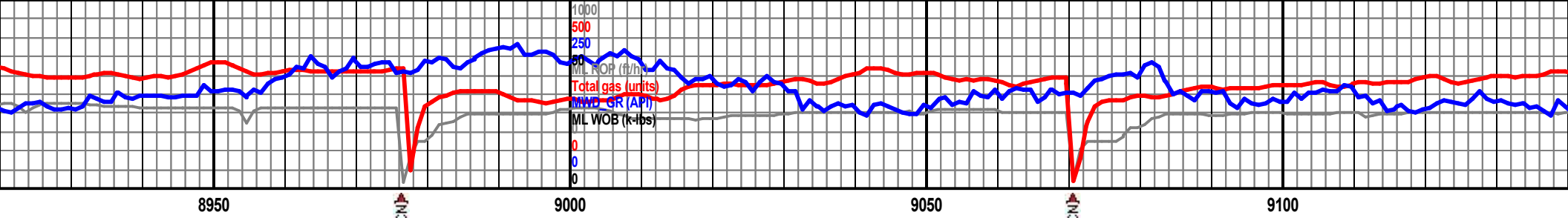
CHLK (60
matte-sl g
grdng cl
gm stmr
MRLSTN

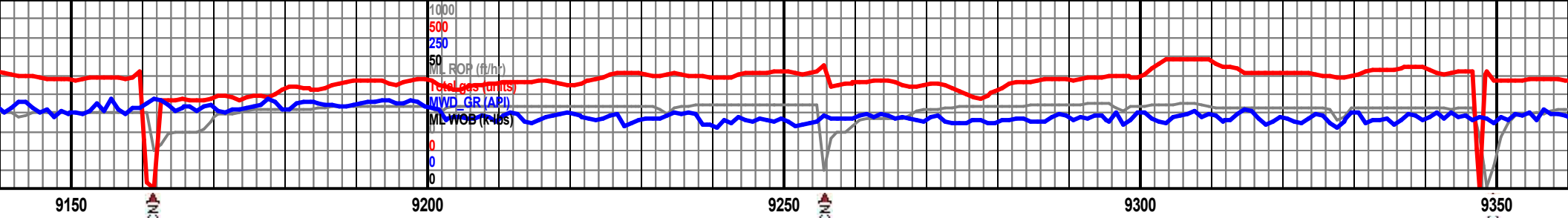












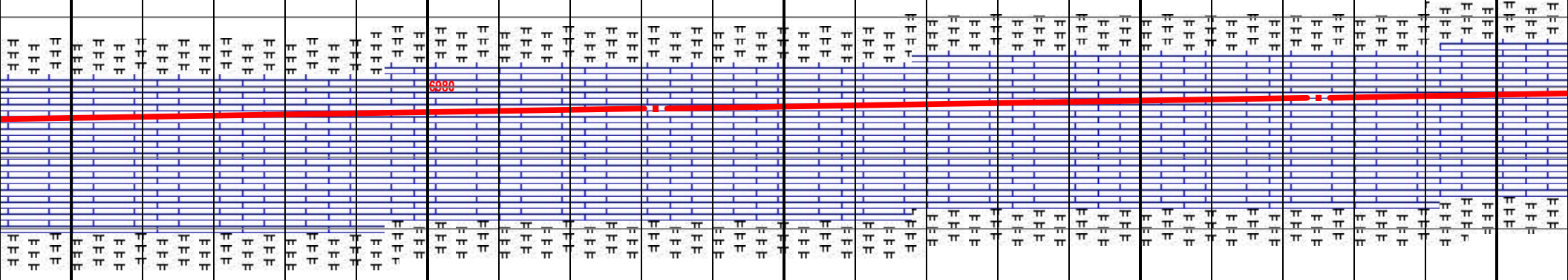
D 9138 TVD 6934.49
C 90.89 AZ 27.99
S 1574.52

6930 TVD

MD 9232 TVD 6983.03
INC 90.89 AZ 272.86
VS 1667.89

3'-4' Flare

MD 9325 TVD 6981.48
INC 91.02 AZ 272.92
VS 1750.18

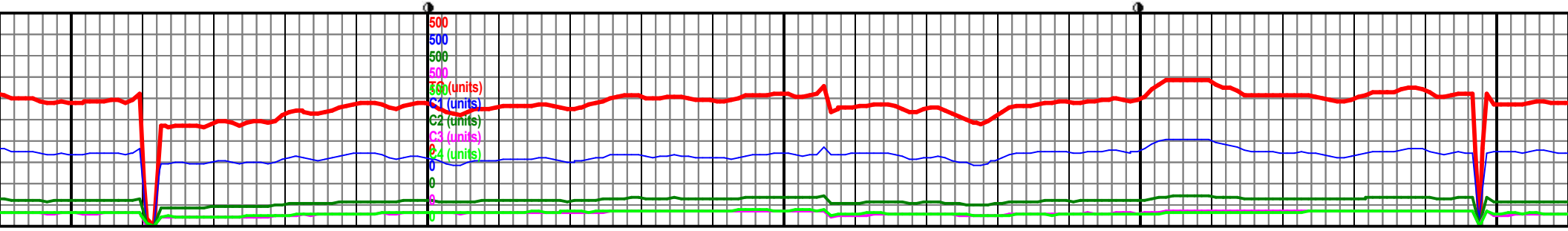


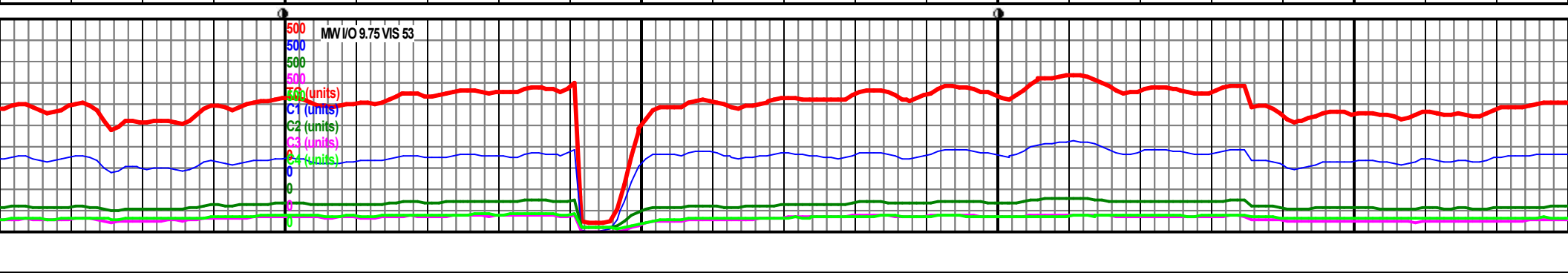
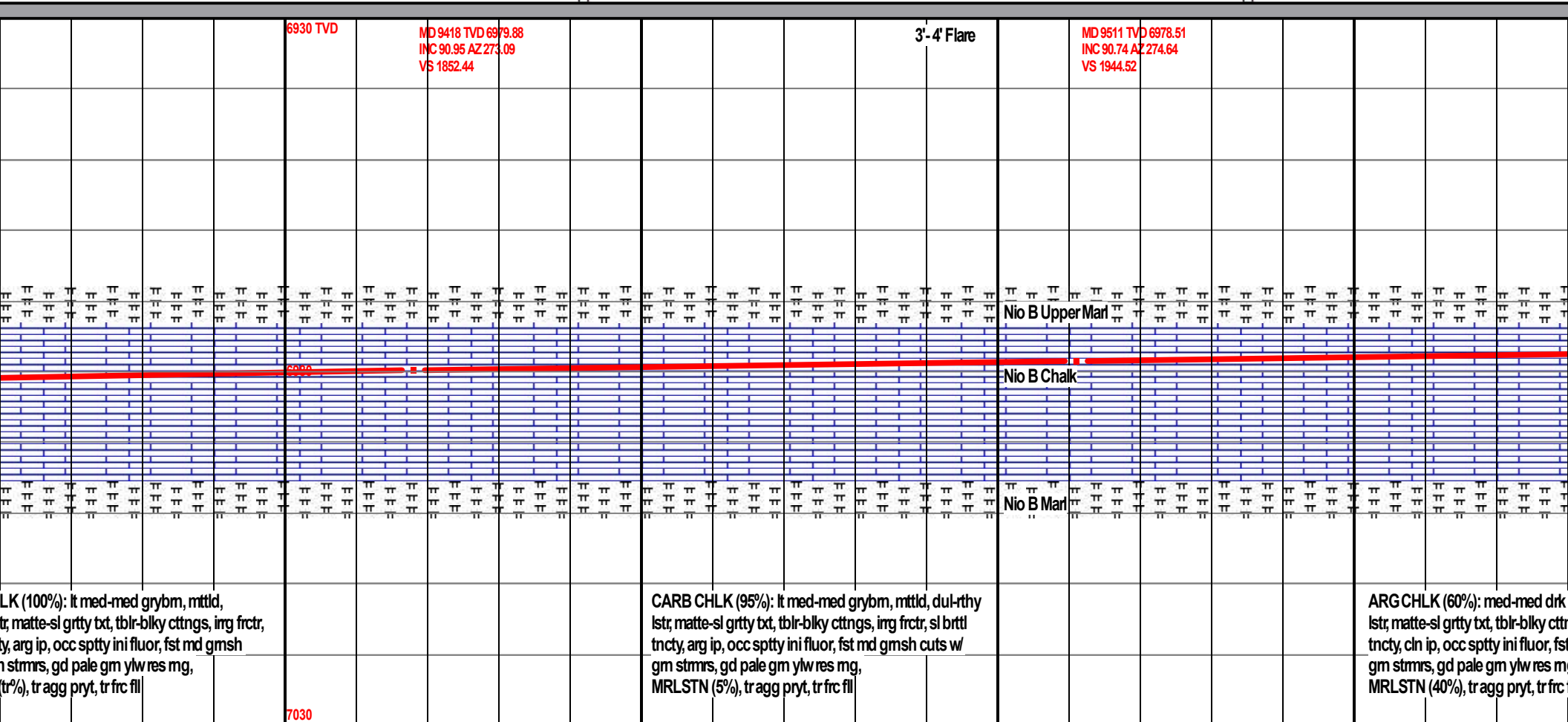
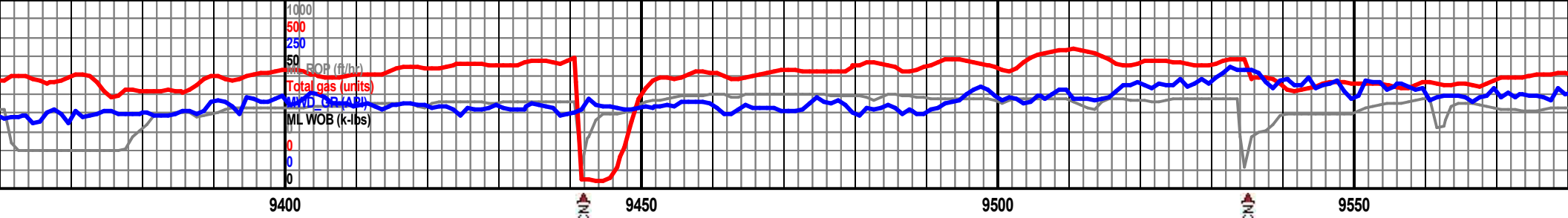
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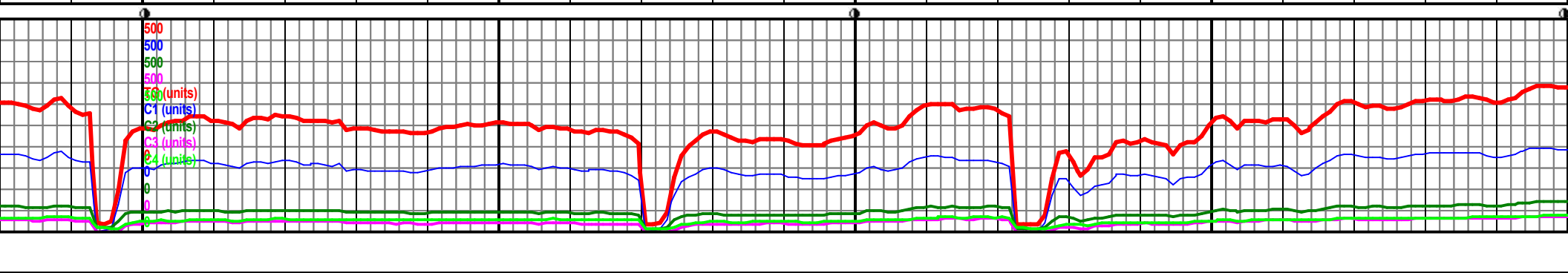
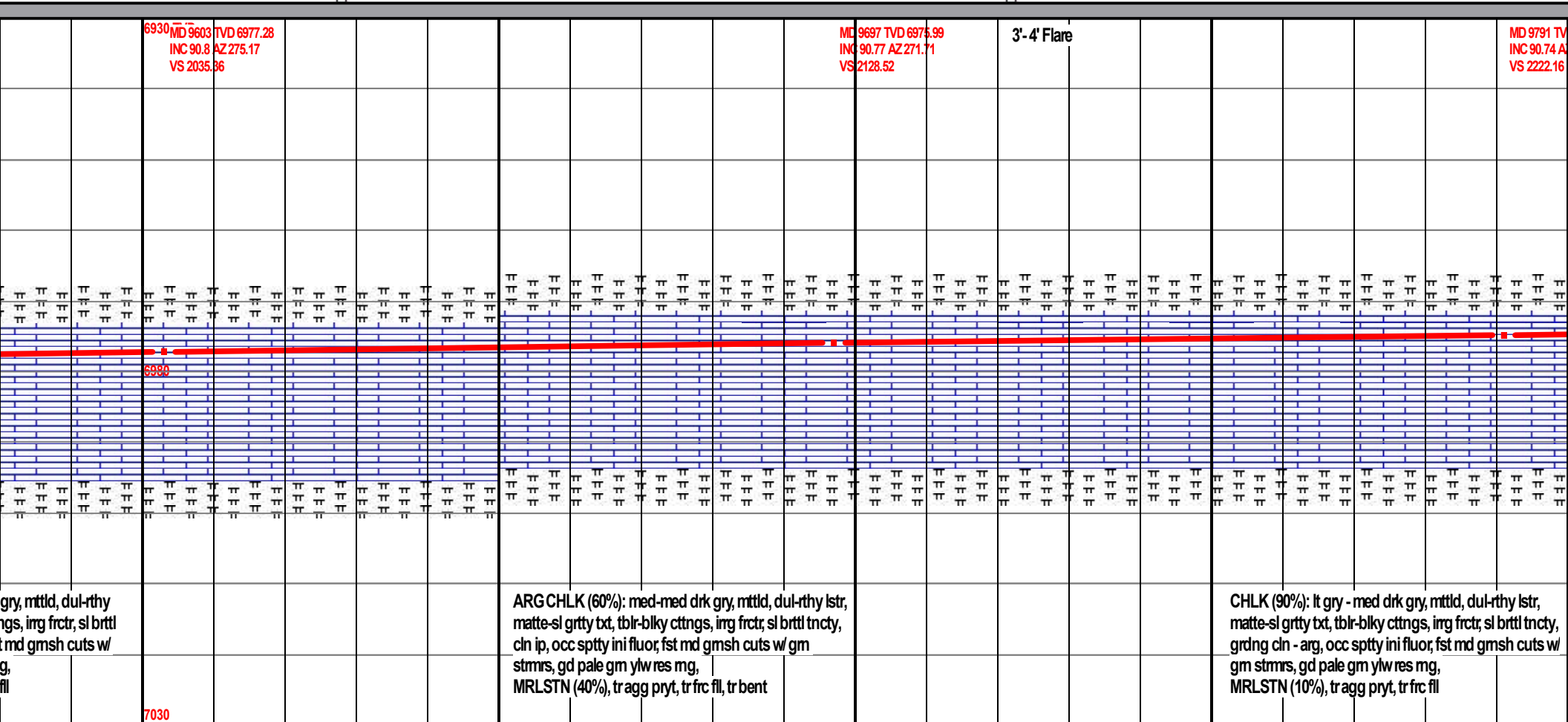
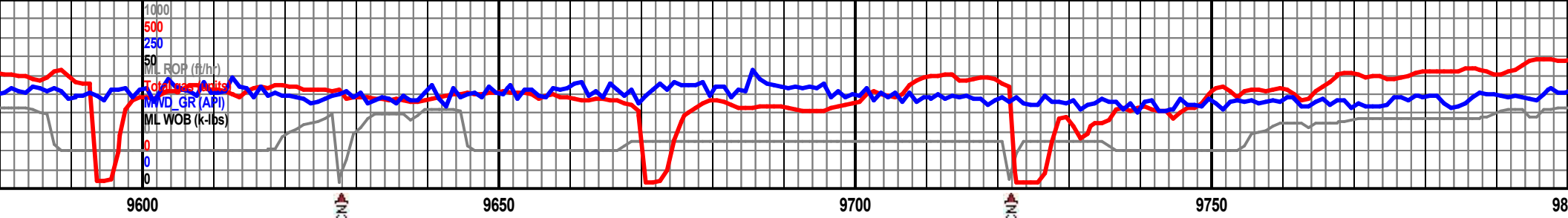
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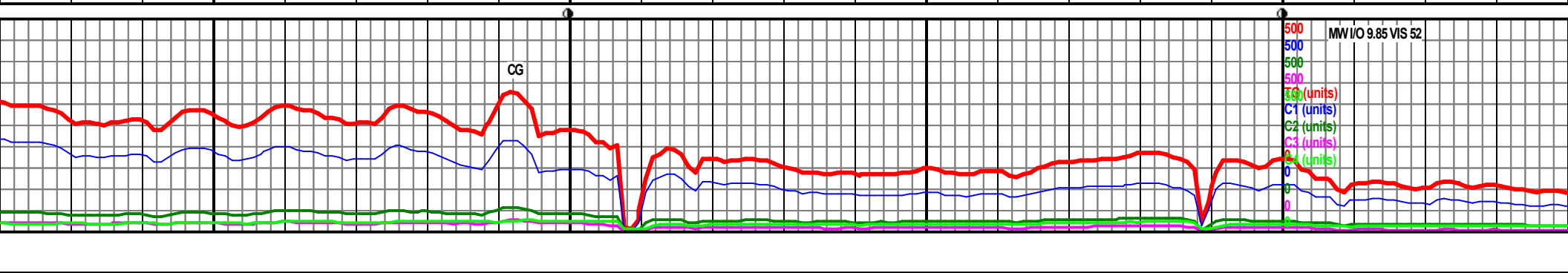
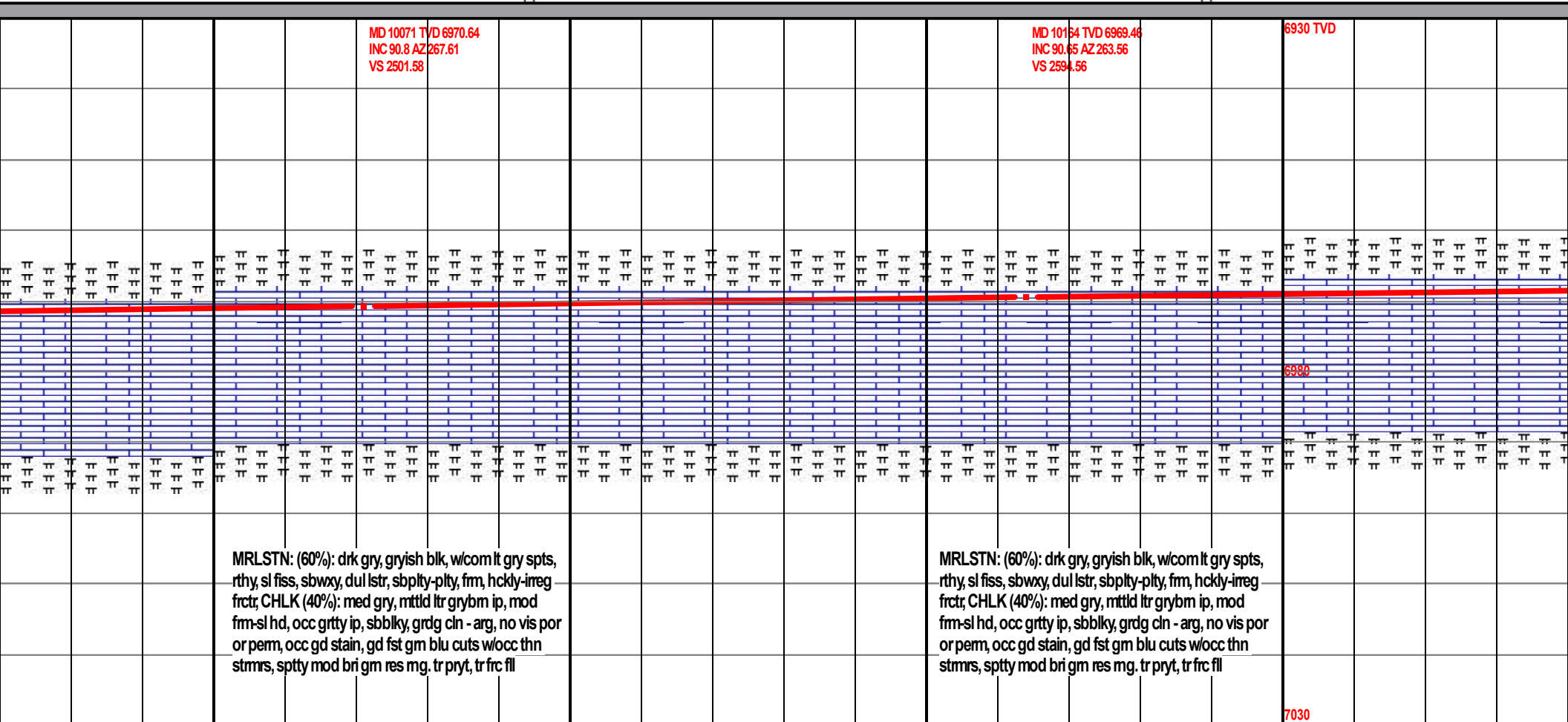
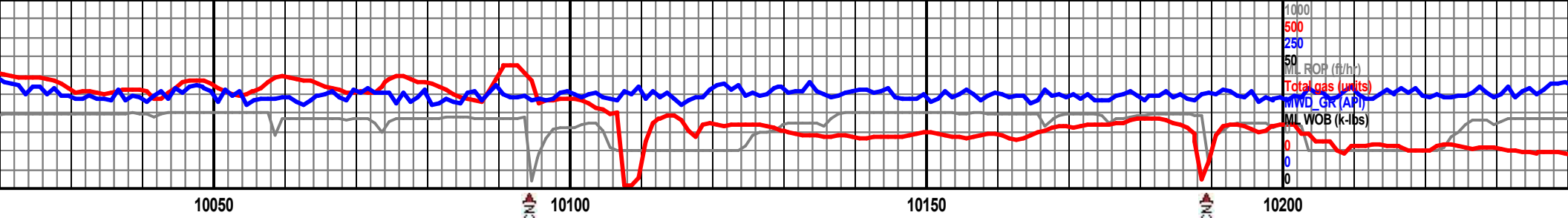
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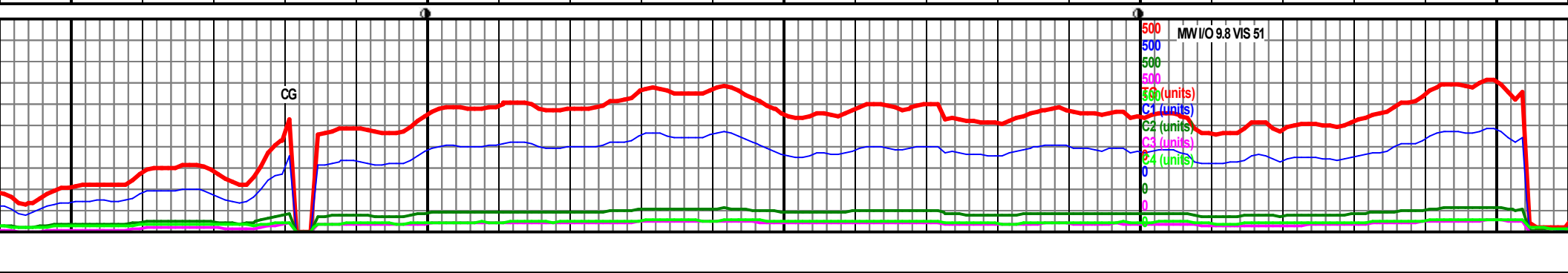
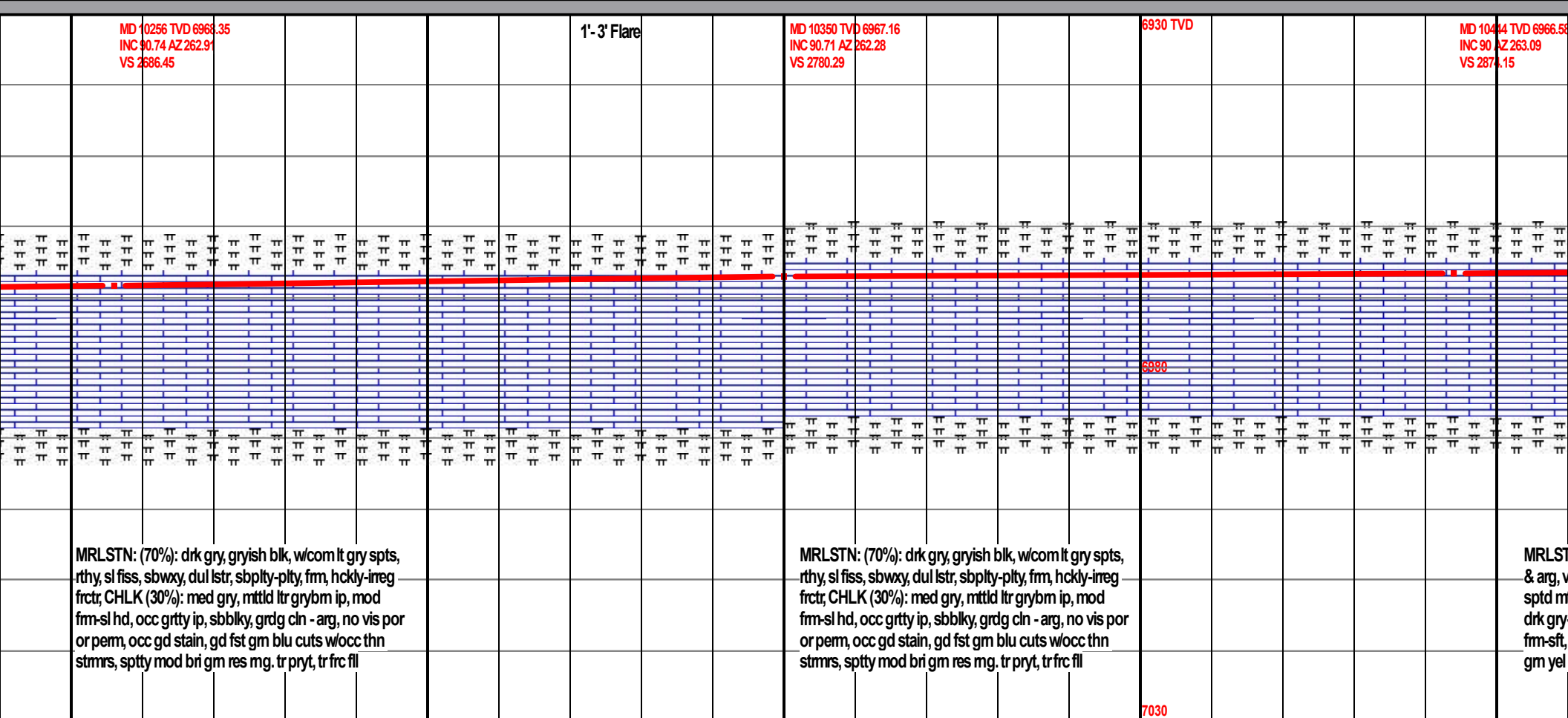
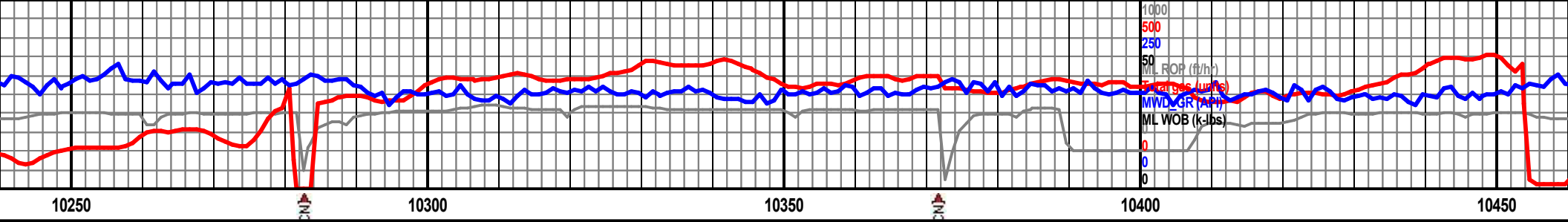
7030

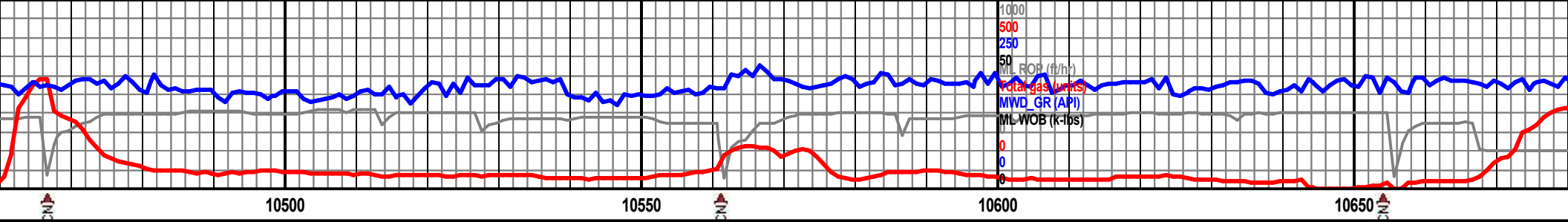








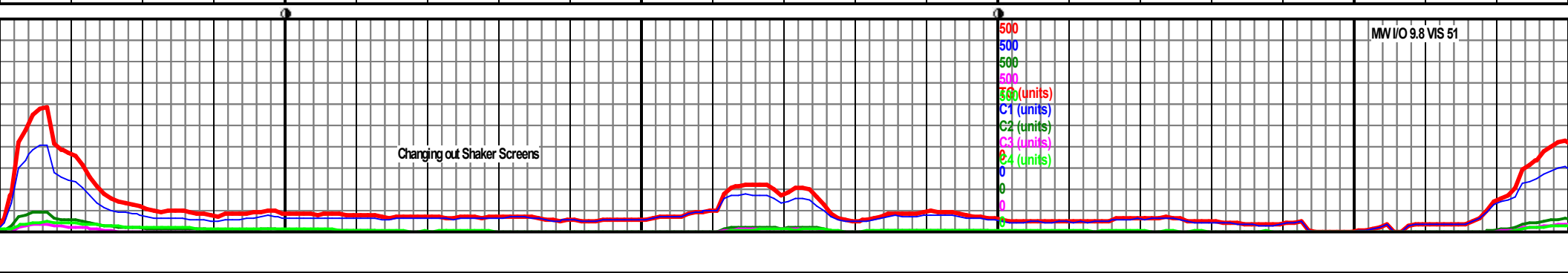
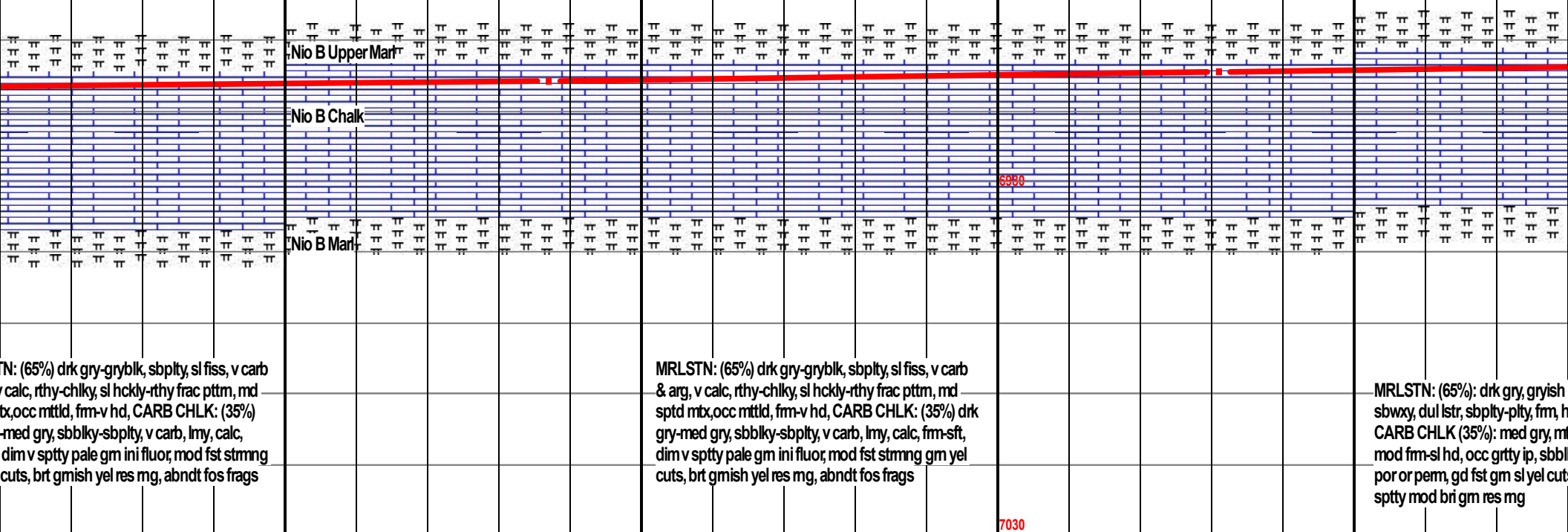


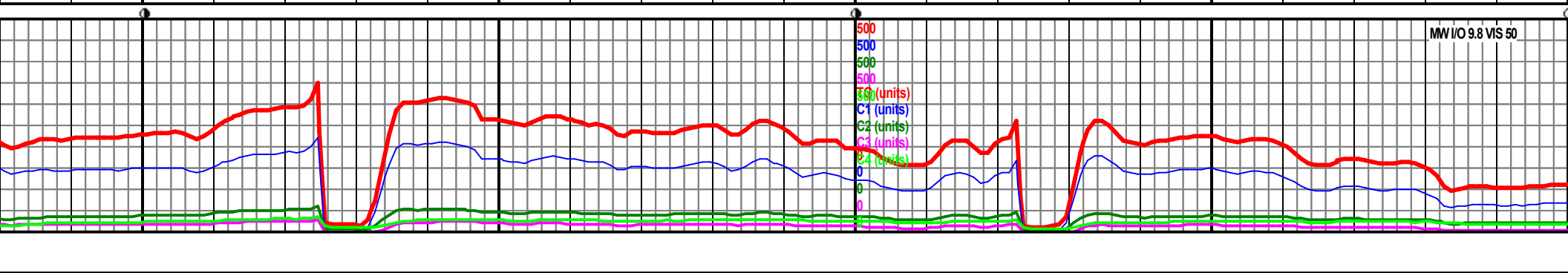
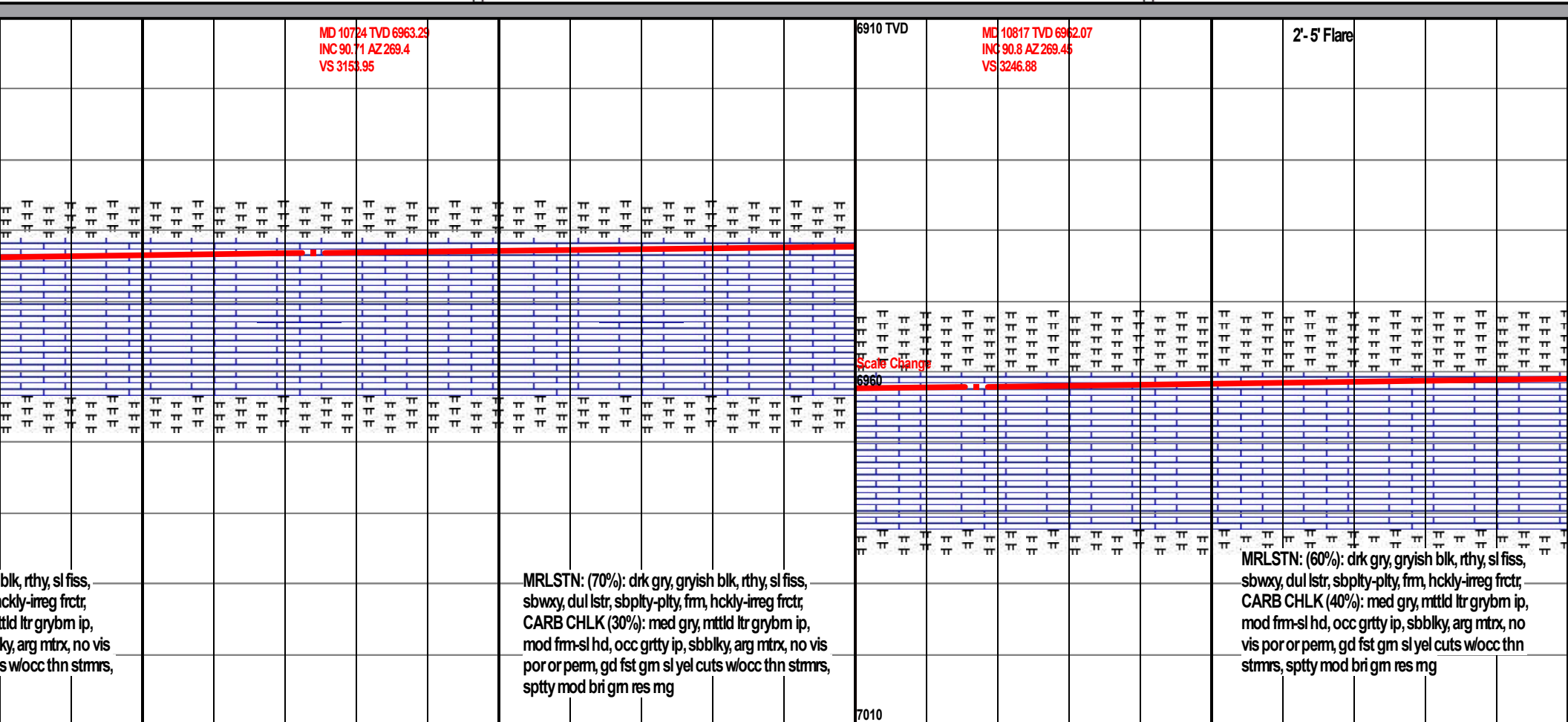


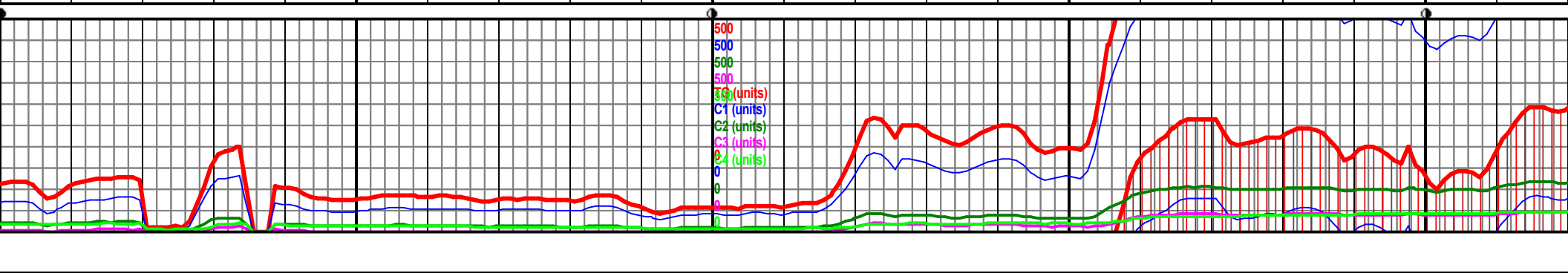
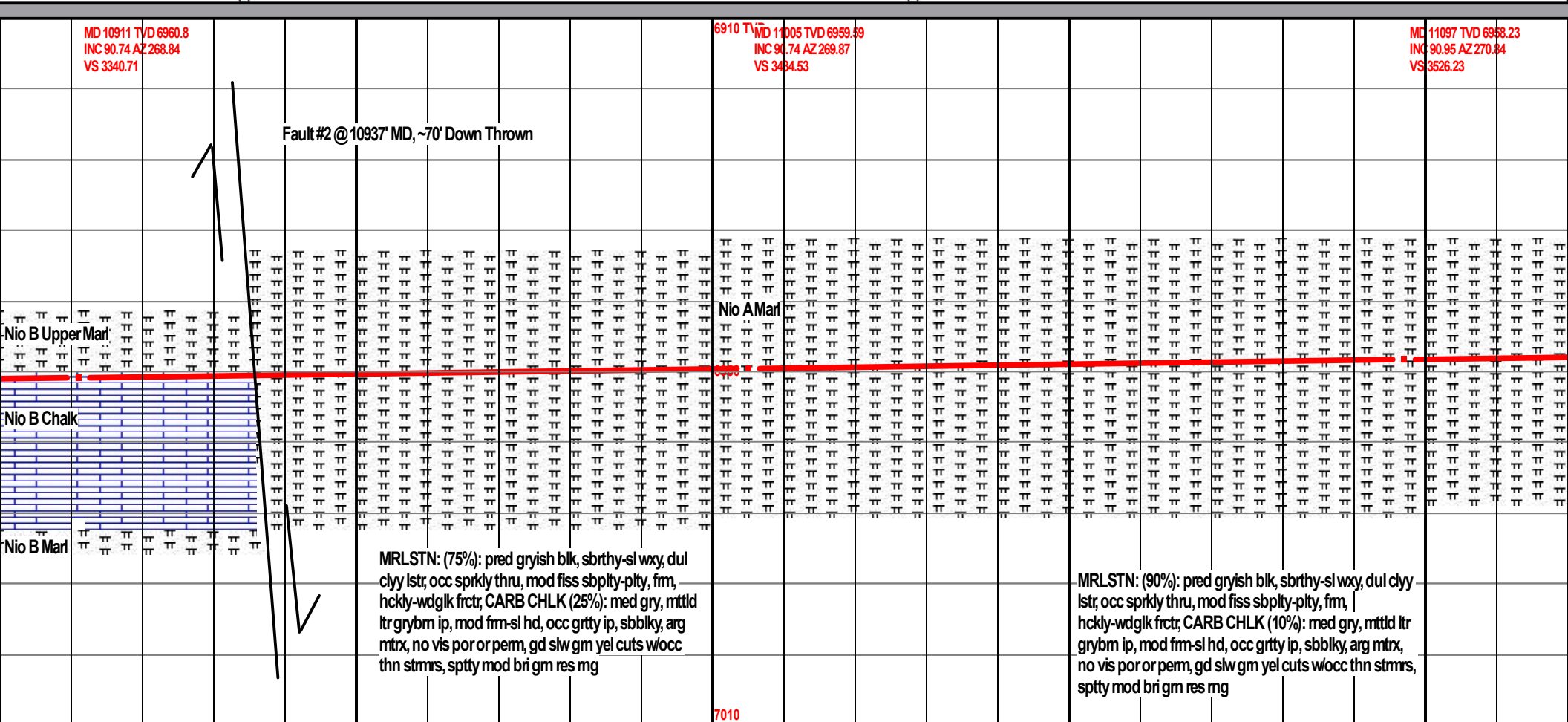
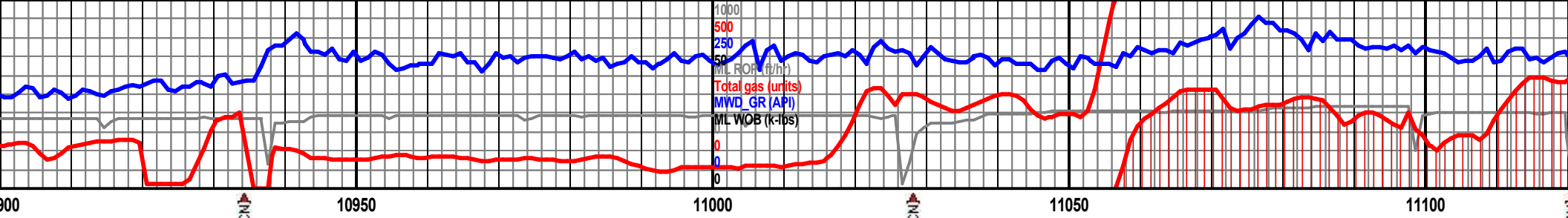
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INC 90.92 AZ 265.93
VS 2967.11

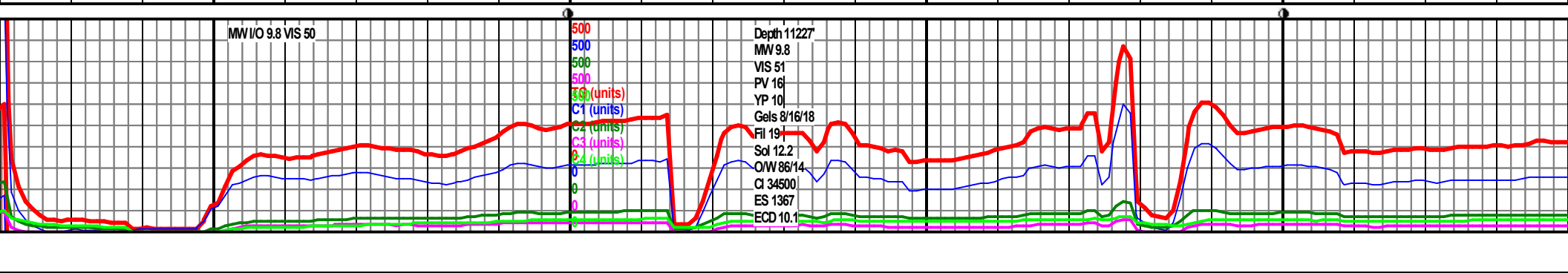
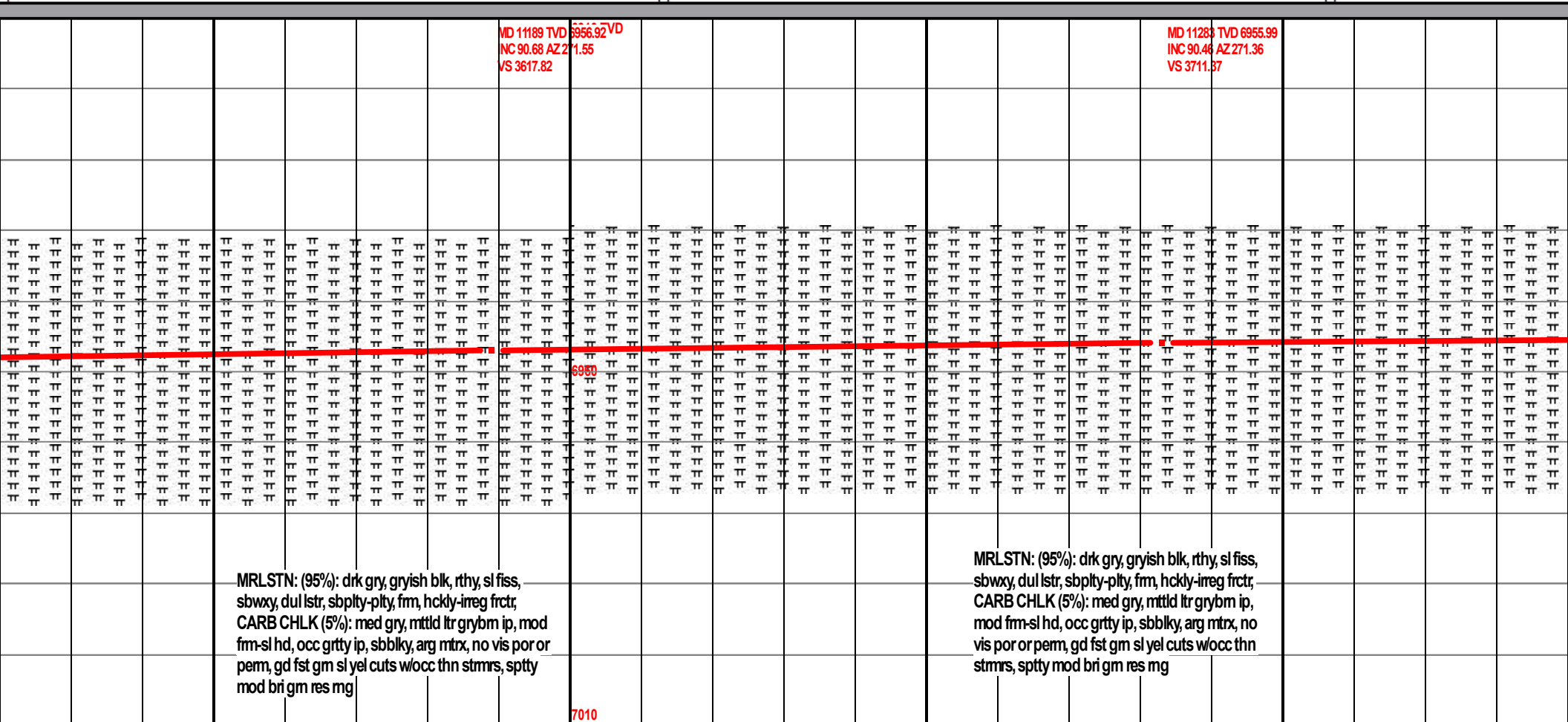
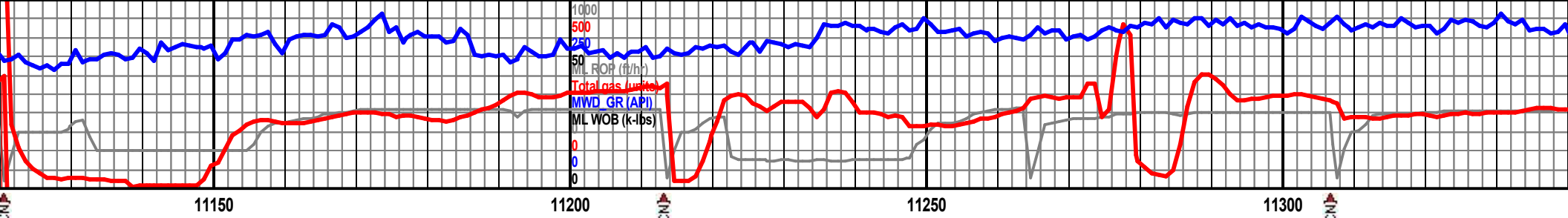
6930 TVD

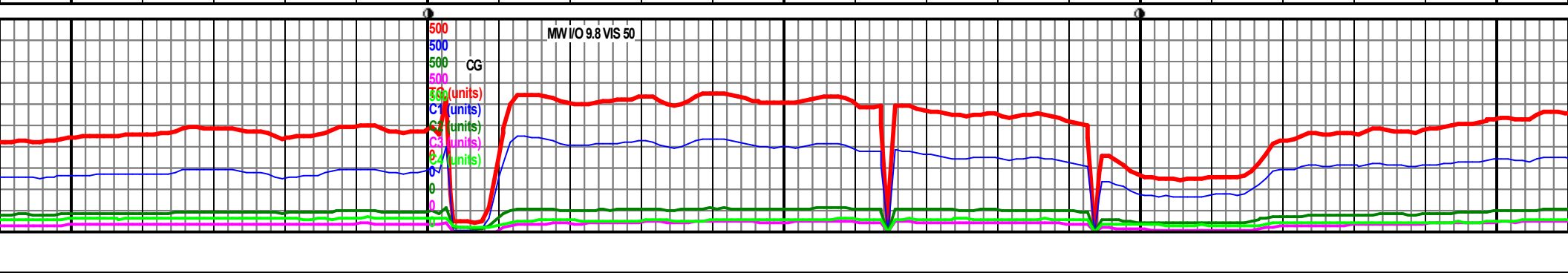
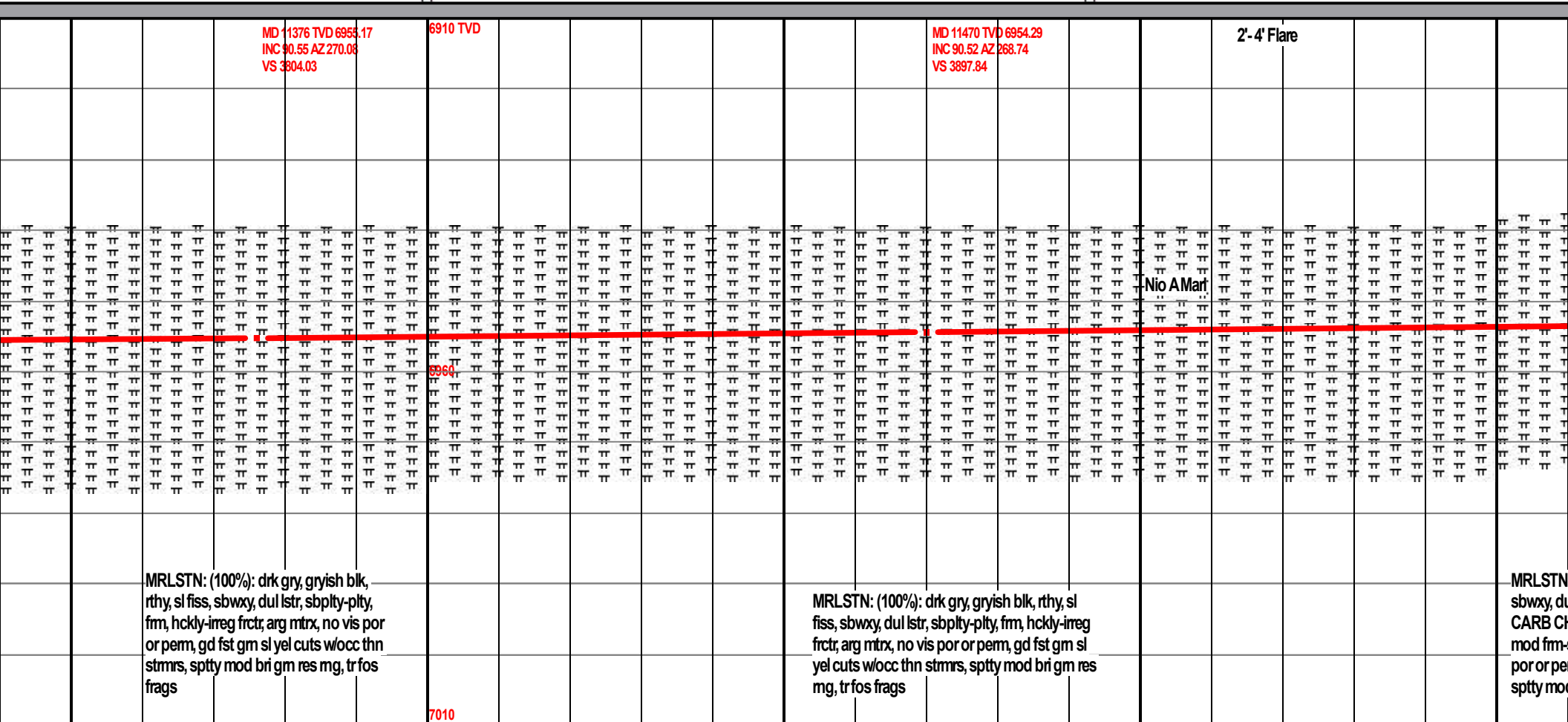
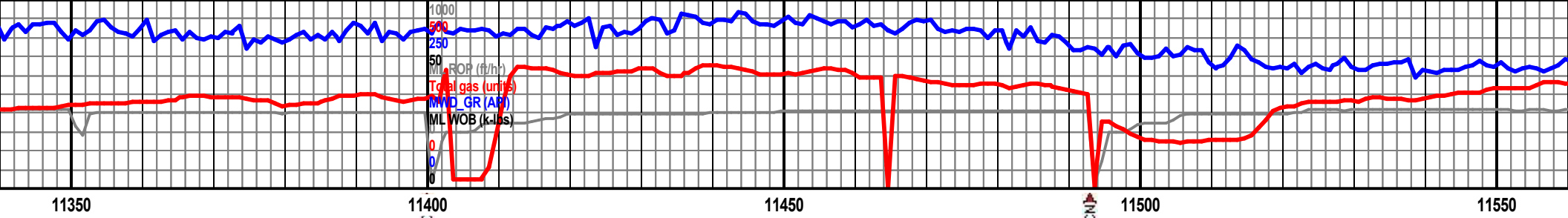
MD 10631 TVD 6964.47
INC 90.74 AZ 267.96
VS 3061.08

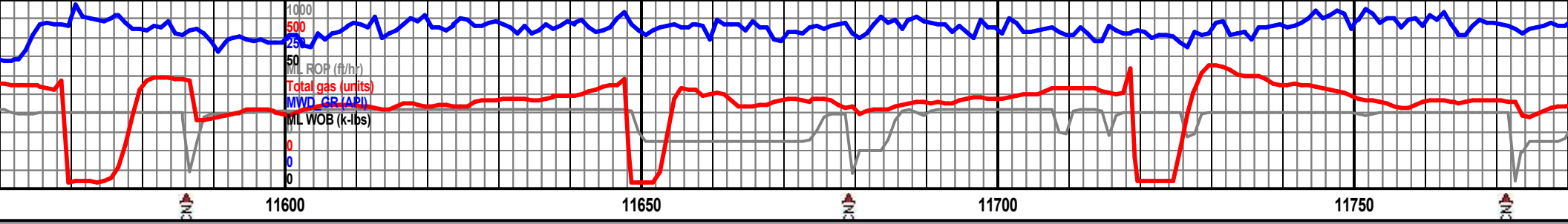




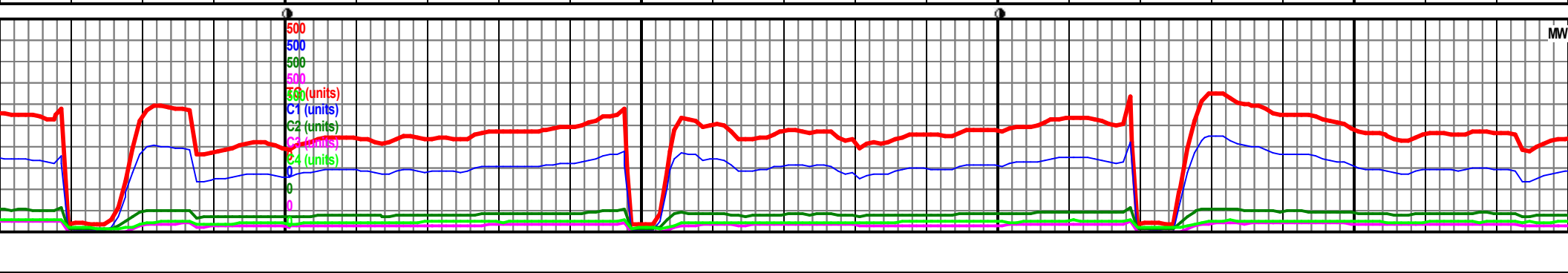


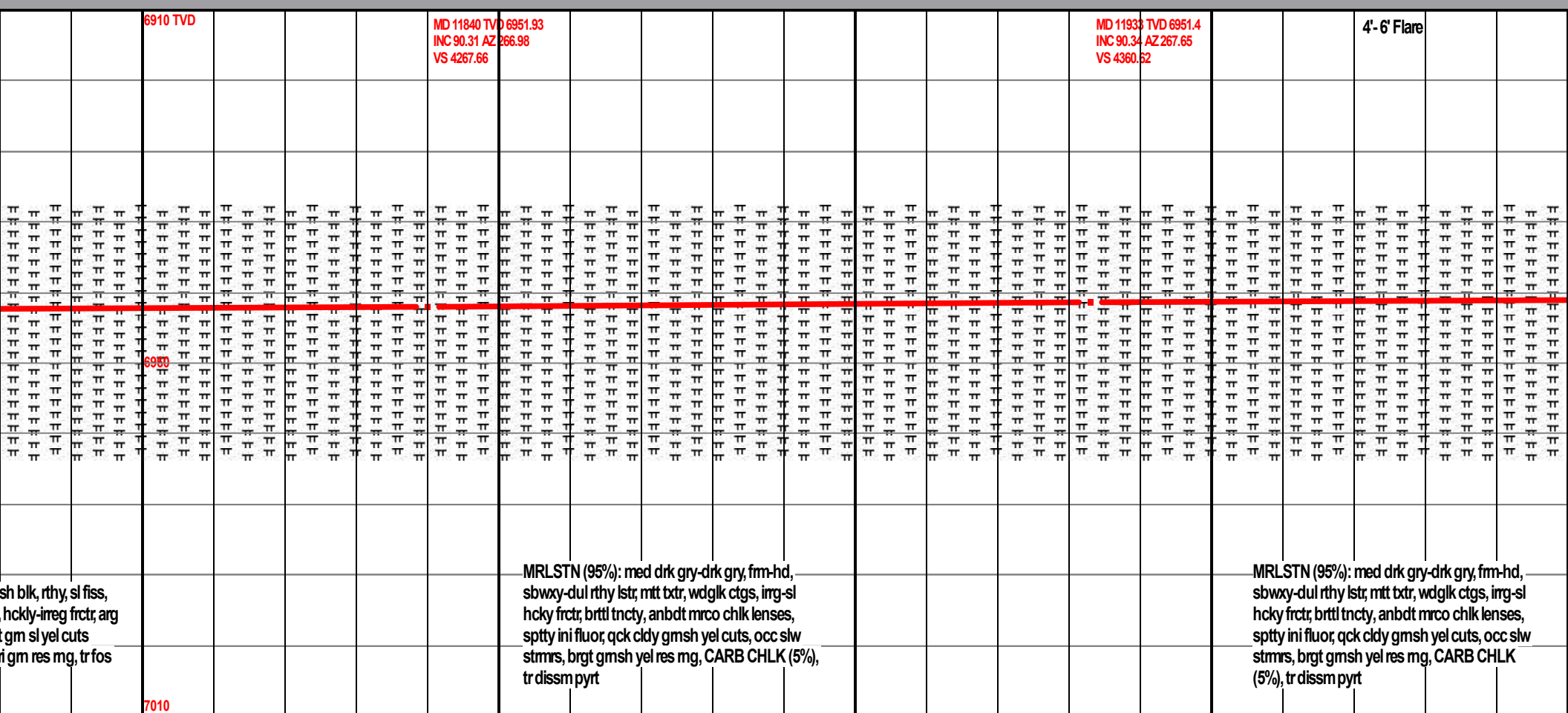


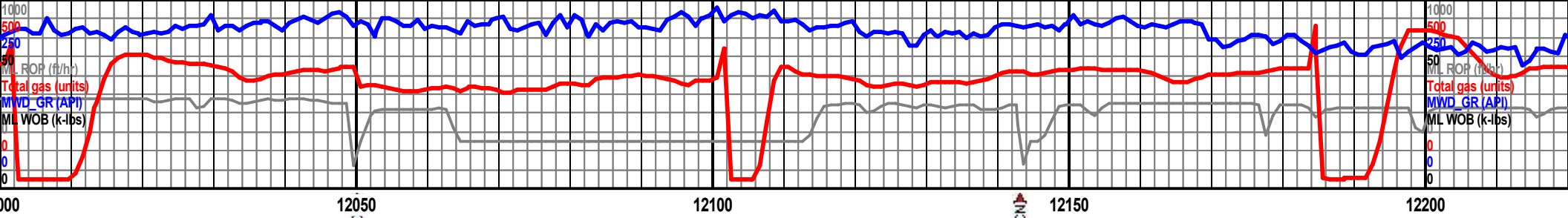




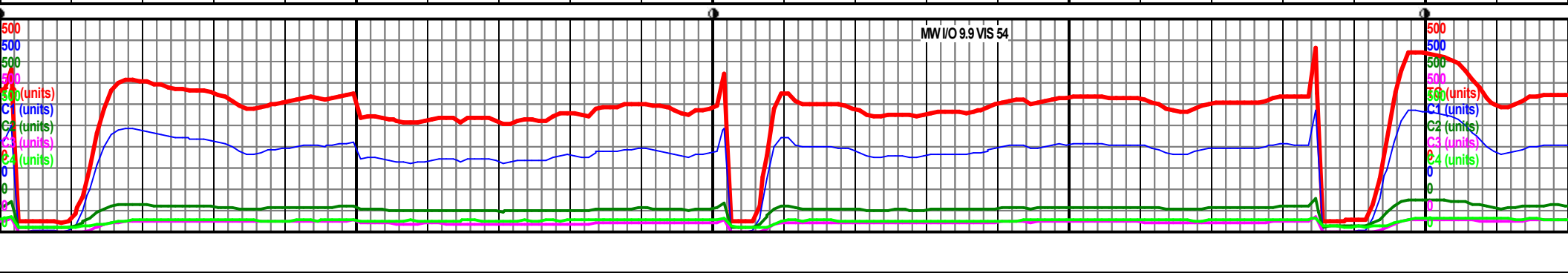
MD 11563 TVD 6953.59 INC 90.34 AZ 268 VS 3990.75										6910 TVD										MD 11655 TVD 6952.97 INC 90.43 AZ 267.18 VS 4082.7										MD 11747 TVD 6952.4 INC 90.28 AZ 267.05 VS 4174.68									

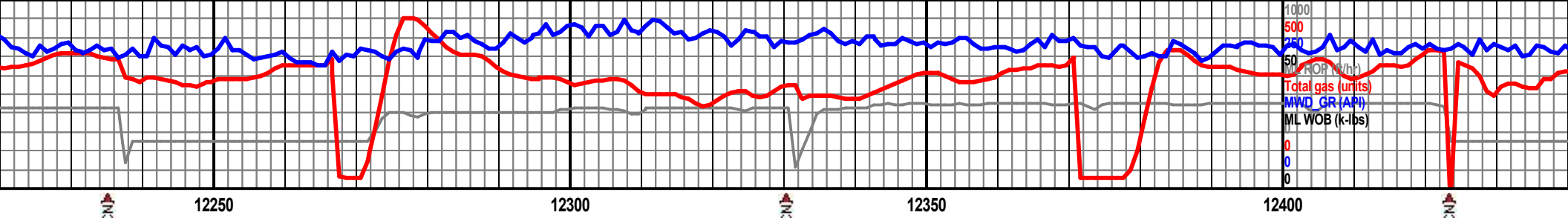




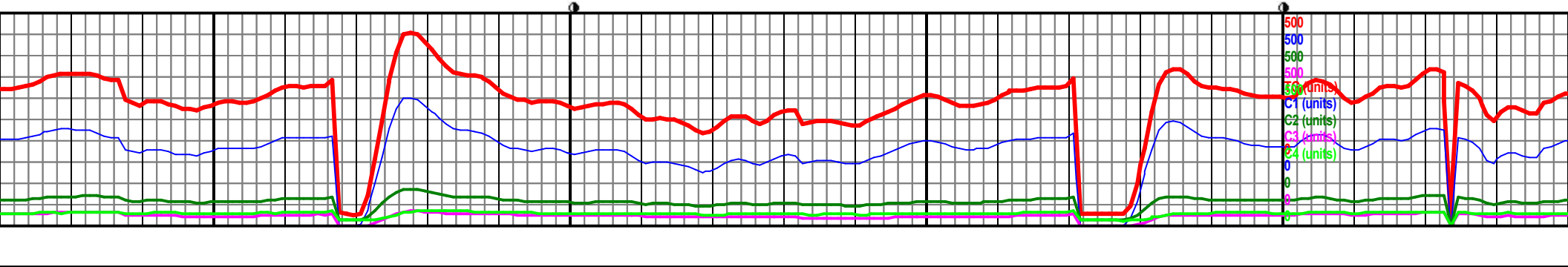


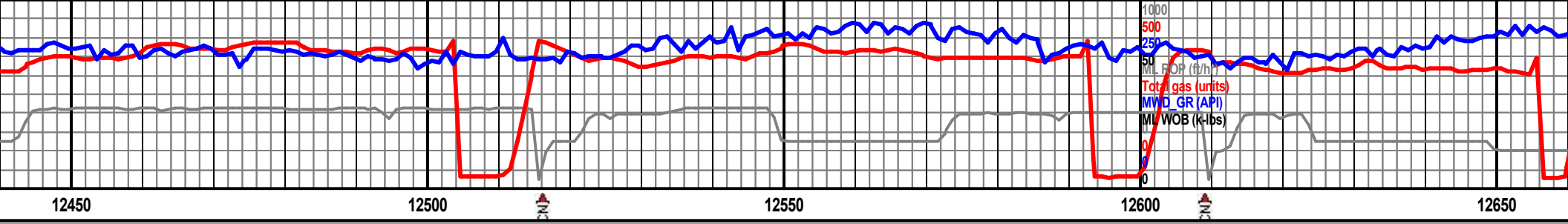
6910 TVD										MD 12026 TVD 6950.92 INC 90.25 AZ 267.24 VS 4453.59										MD 12120 TVD 6950.53 INC 90.22 AZ 267.25 VS 4547.56										6910 TVD										MD 12212 INC 90.06 VS 4639.5																			
No Amari																																																											
6960																																								6960																			



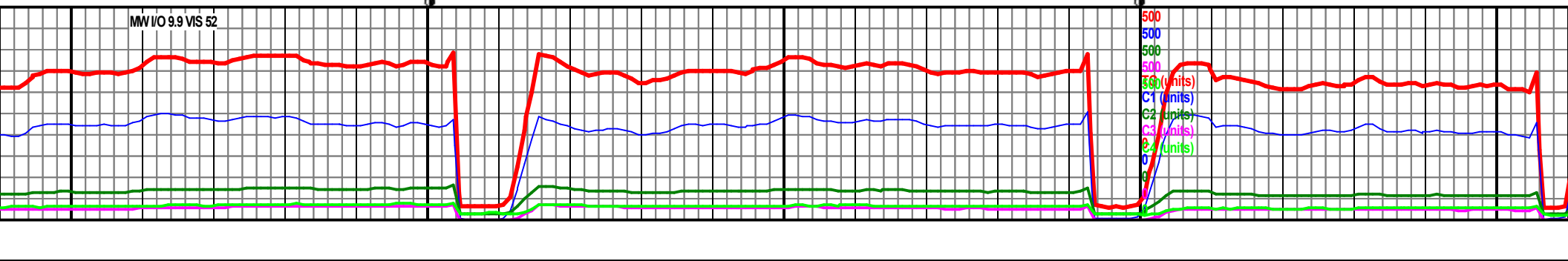


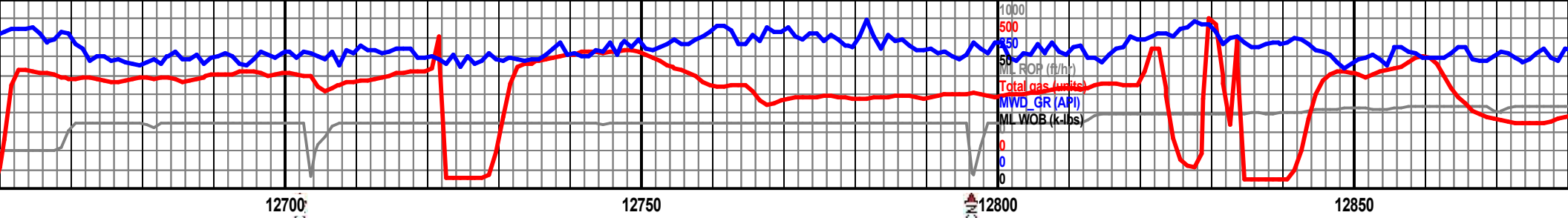
MD 12306 TVD 6949.93 INC 90.4 AZ 268.49 VS 4733.48		MD 12399 TVD 6949.4 INC 90.25 AZ 269.79 VS 4826.32
MRLSTN: (100%) drk gry-gryblk, occ ltr gry thru, sbblk-sbply, v carb, lmy, calc, slty, frm sft, v arg, rthy-chlky, micritic mud sptd mtz, r mtlld, frm-v hd, dim v sptty pale gm ini fluor, mod fst strmg gm yel cuts, brt gmish yel res mg, tr dissm pyrt	MRLSTN: (100%): drk gry, gryish blk, rthy, sl fiss, sbwxy, dul lstr, sbply-plty, fm, hckly-ireg frctr, arg mtrx, no vis por or perm, gd fst gm sl yel cuts wocc thn strms, sptty mod bri gm res mg, tr fos frags	6980 7010



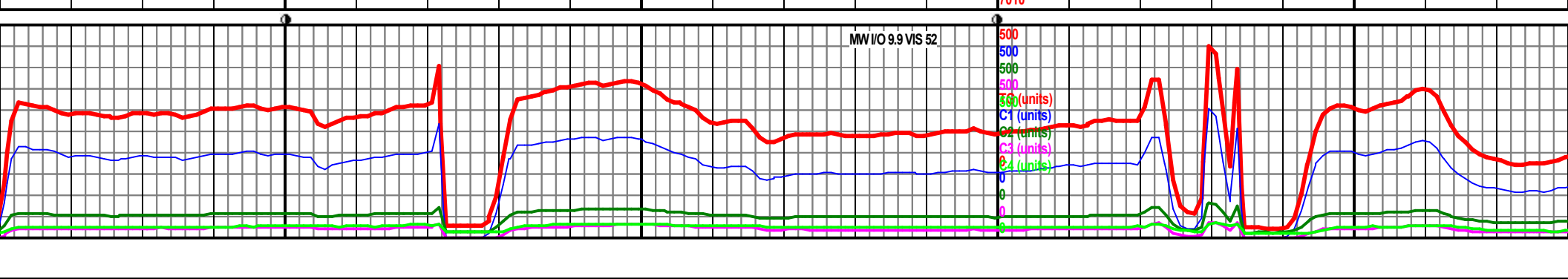


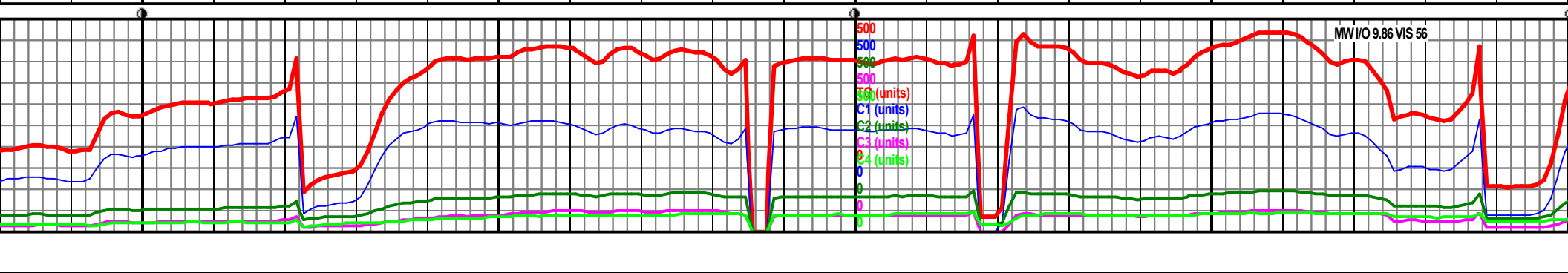
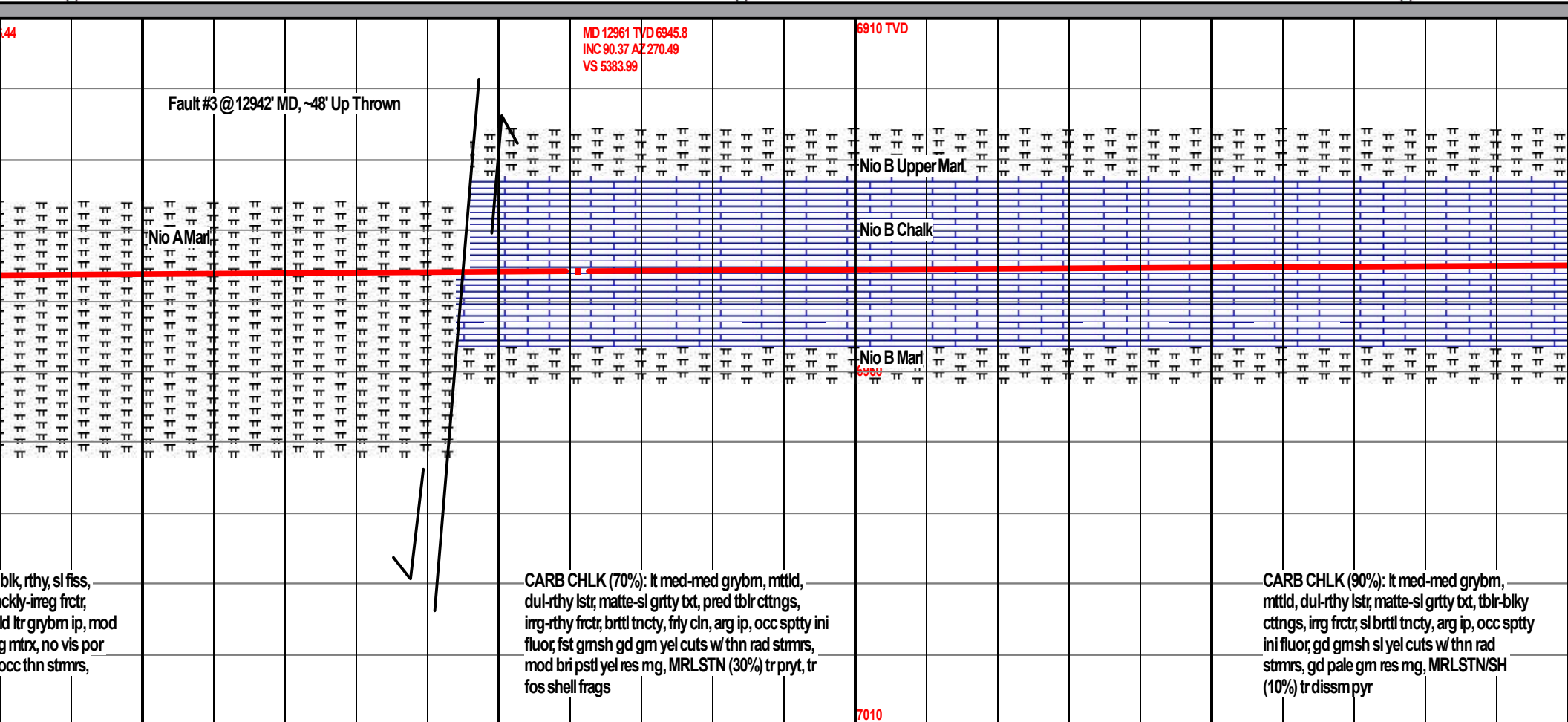
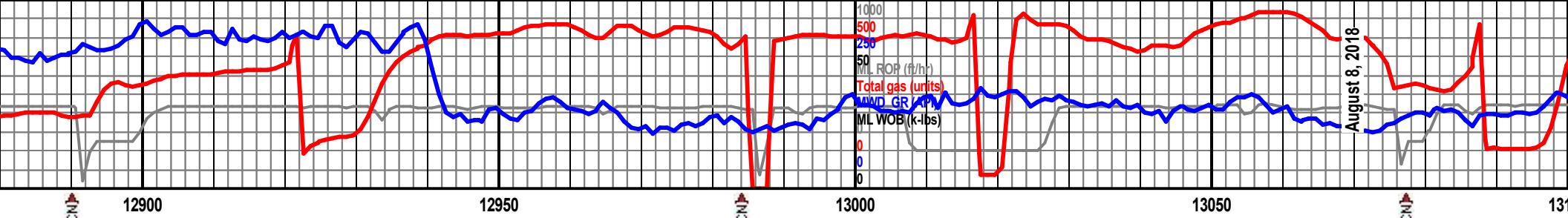
3'- 4' Flare																														MD 1249: TVD 6948.89 INC 90.31 AZ 271.66 VS 4919.87										6910 TVD									
Nio Amar																														6960										7010									
MRLSTN (90%): med drk gry-drk gry, frm-hd, sbwxy-dul rthy lstr, mtt btr, wdglk ctgs, irg-sl hcky frctr, brttl tncty, anbdt mrco chlk lenses, sppty ini fluor, qck cldy gmsh yel cuts, occ slw stmr, brgt gmsh yel res mg, CARB CHLK (10%), tr diss pyrt																														MRLSTN (95%): med drk gry-drk gry, frm-hd, sbwxy-dul rthy lstr, mtt btr, wdglk ctgs, irg-sl hcky frctr, brttl tncty, anbdt mrco chlk lenses, sppty ini fluor, qck cldy gmsh yel cuts, occ slw stmr, brgt gmsh yel res mg, CARB CHLK (5%), tr diss pyrt										MRLSTN (95%): med drk gry-drk gry, frm-hd, sbwxy-dul rthy lstr, mtt btr, wdglk ctgs, irg-sl hcky frctr, brttl tncty, anbdt mrco chlk lenses, sppty ini fluor, qck cldy gmsh yel cuts, occ slw stmr, brgt gmsh yel res mg, CARB CHLK (5%), tr diss pyrt									

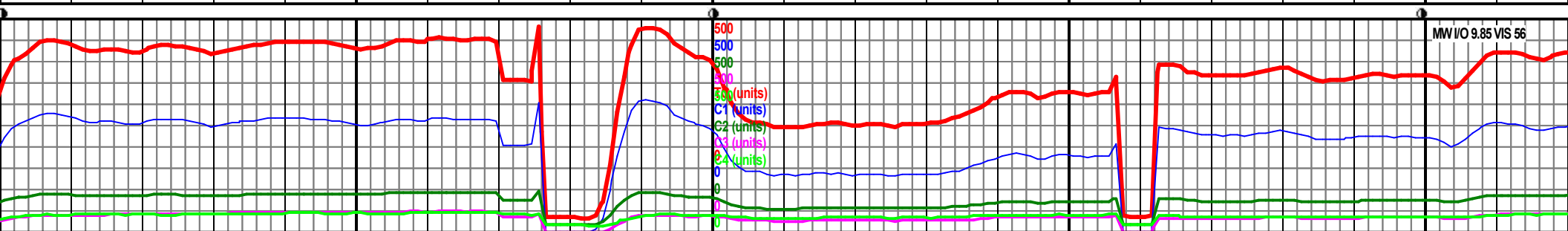
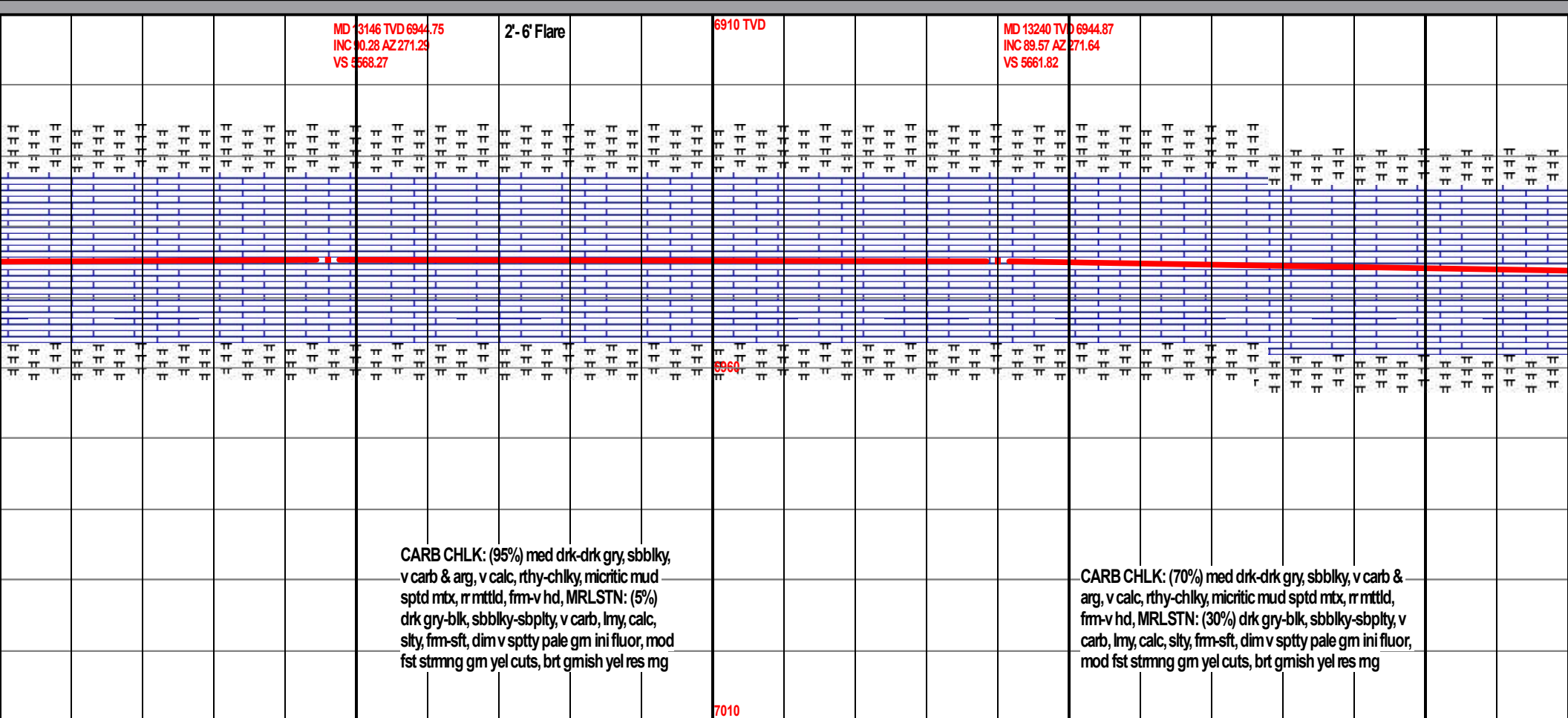
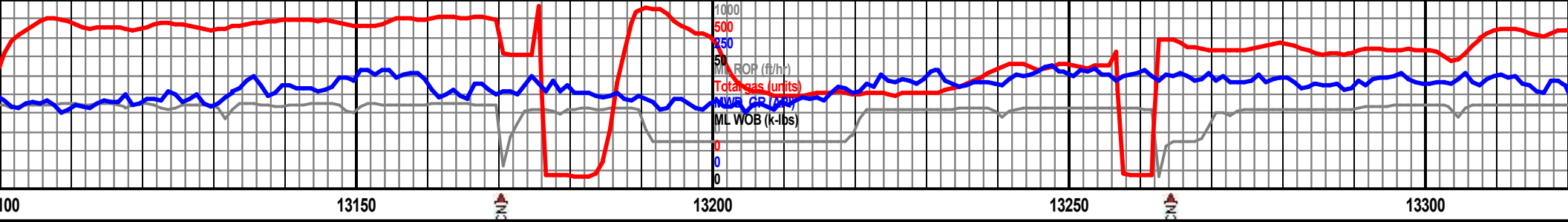


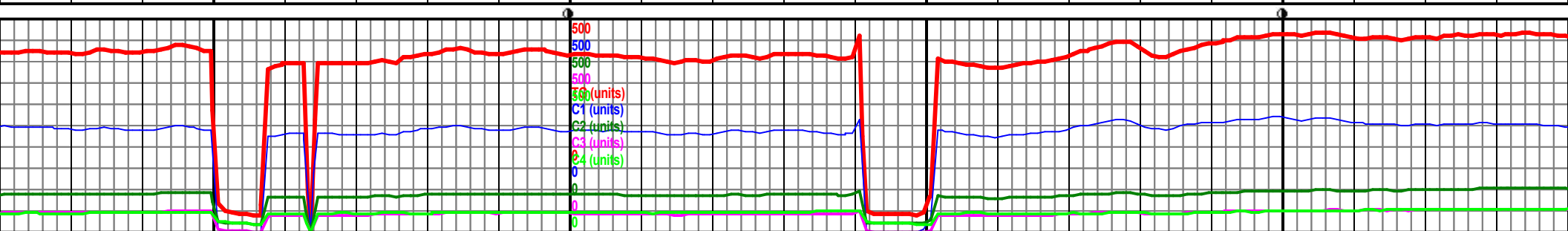
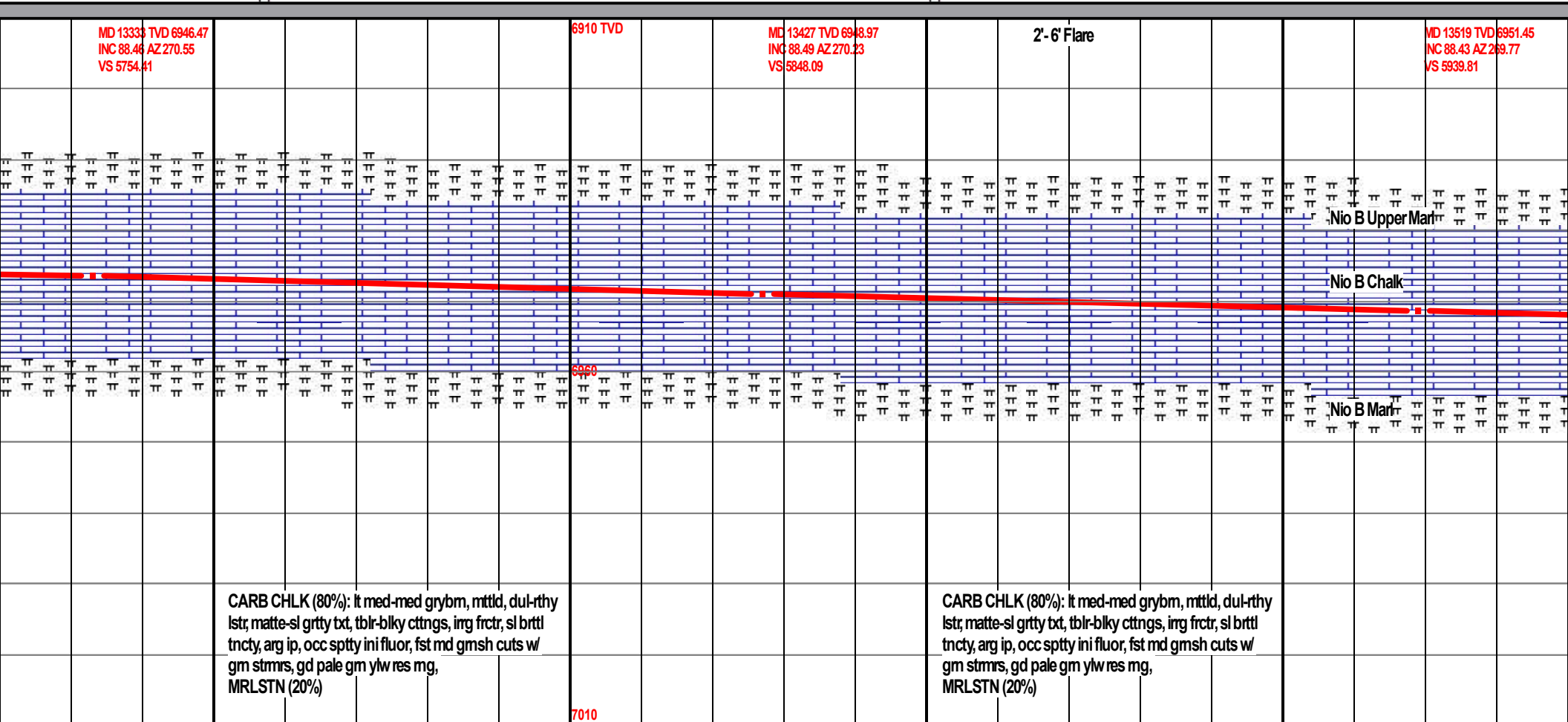
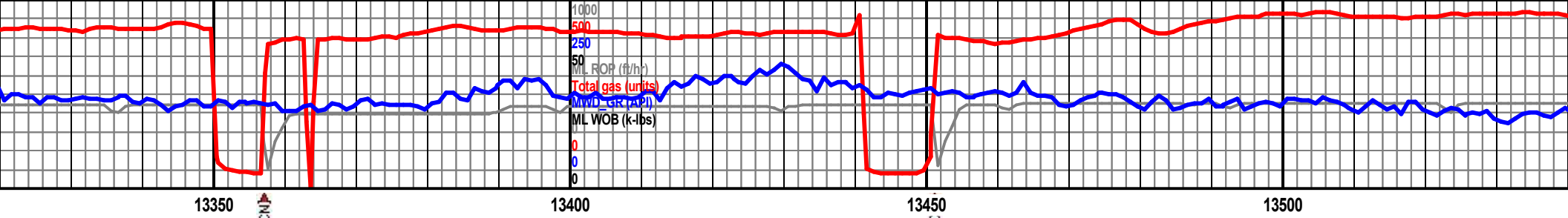


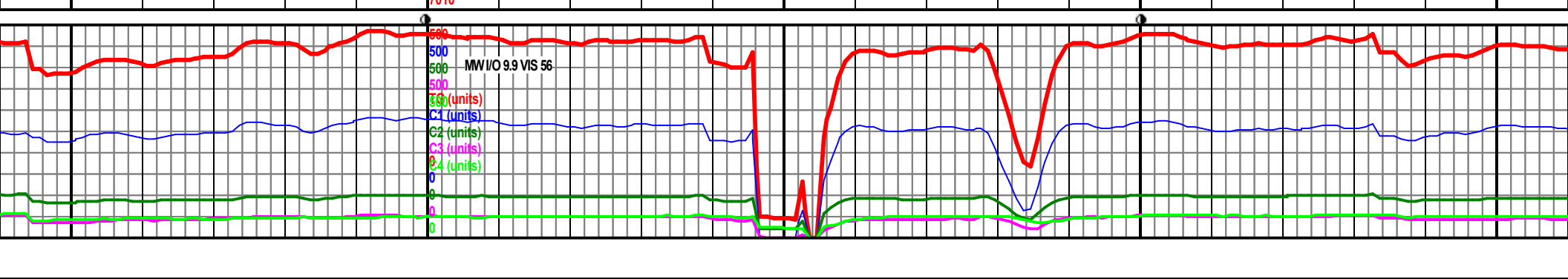
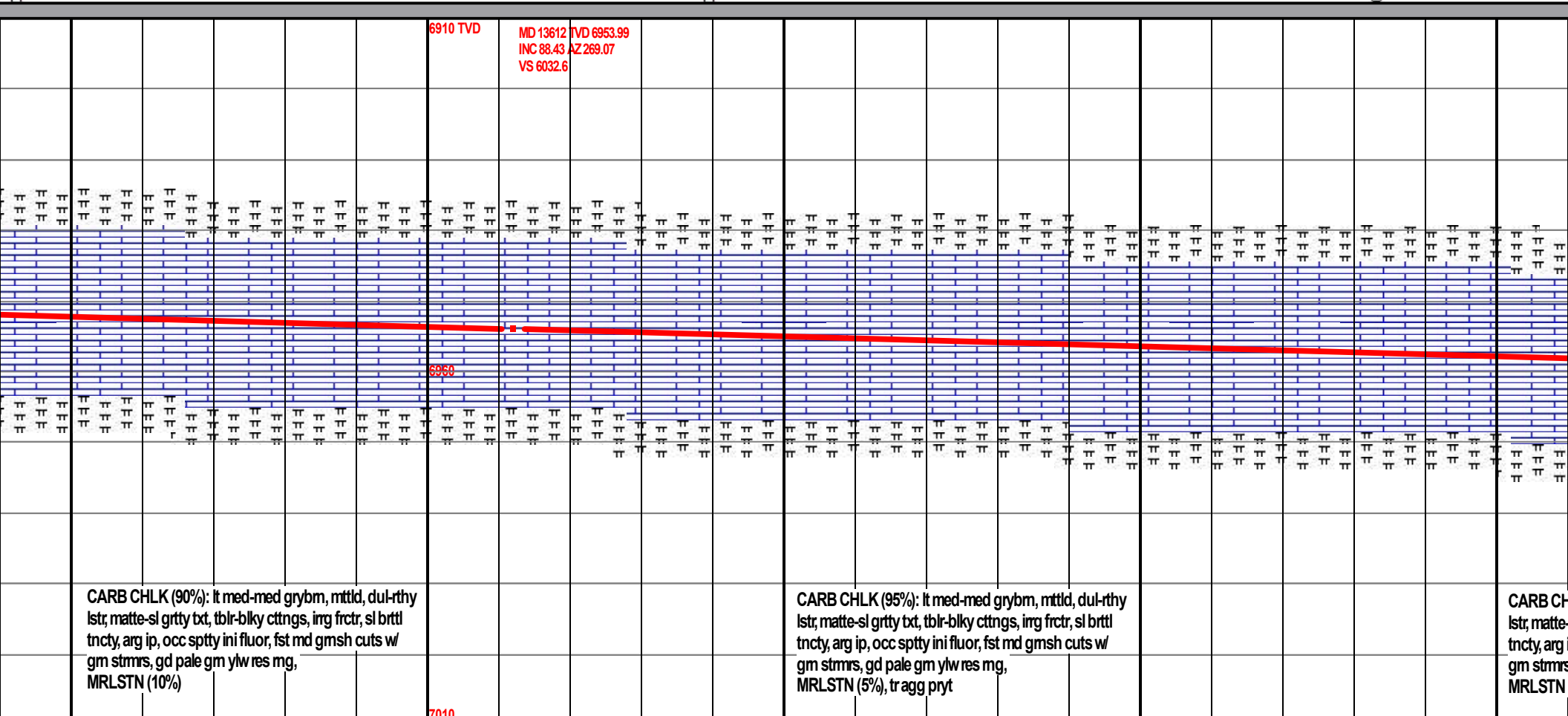
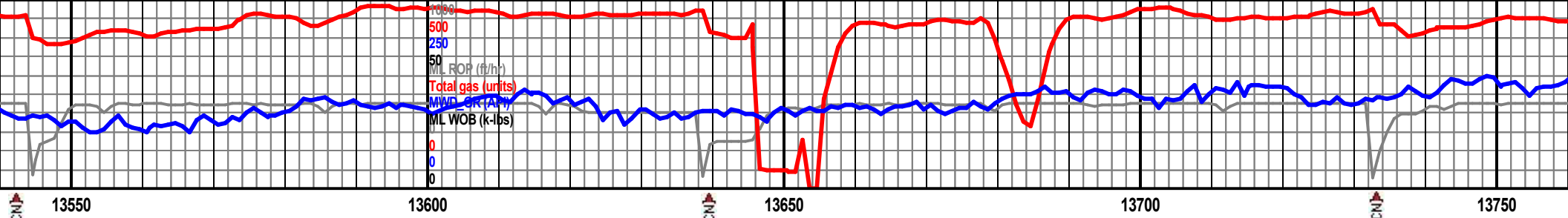
MD 12679 TVD 6947.64 INC 90.4 AZ 275.04 VS 5104.35										MD 12772 TVD 6947.04 INC 90.34 AZ 273.87 VS 5196.3										6910 TVD										2'- 5' Flare										MD 12866 TVD 6946.4 INC 90.4 AZ 272.85 VS 5289.49									
N: (90%): drk gry, gryish blk, rthy, sl fiss, dul lstr, sbply-pty, frm, hckly-irreg frctr, CHLK (10%): med gry, mittld ltr grybm ip, n-sl hd, occ grtty ip, sbbilky, arg mtrx, no or perm, gd fst gm sl yel cuts w/occ thn spty mod bri gm res mg										MRLSTN (85%): med drk gry-drk gry, frm-hd, sbwxy-dul rthy lstr, mtt btr, wdgk ctgs, irr-sl hcky frctr, brttl tncy, anbd mrc chlk lenses, spty ini fluor, qck cldy gmsh yel cuts, occ slw stmrs, brgt gmsh yel res mg, CARB CHLK (15%), tr dissmpyrt										MRLSTN: (95%): drk gry, gryish sbwxy, dul lstr, sbply-pty, frm, h CARB CHLK (5%): med gry, mtt frm-sl hd, occ grtty ip, sbbilky, arg or perm, gd fst gm sl yel cuts w/ spty mod bri gm res mg																													

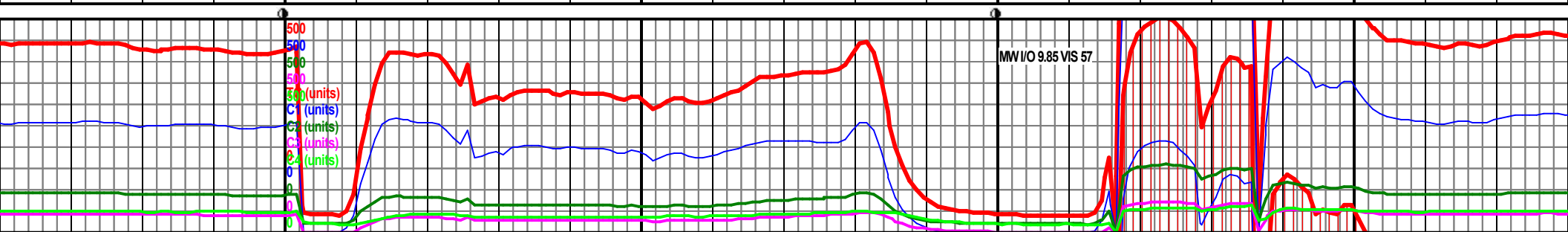
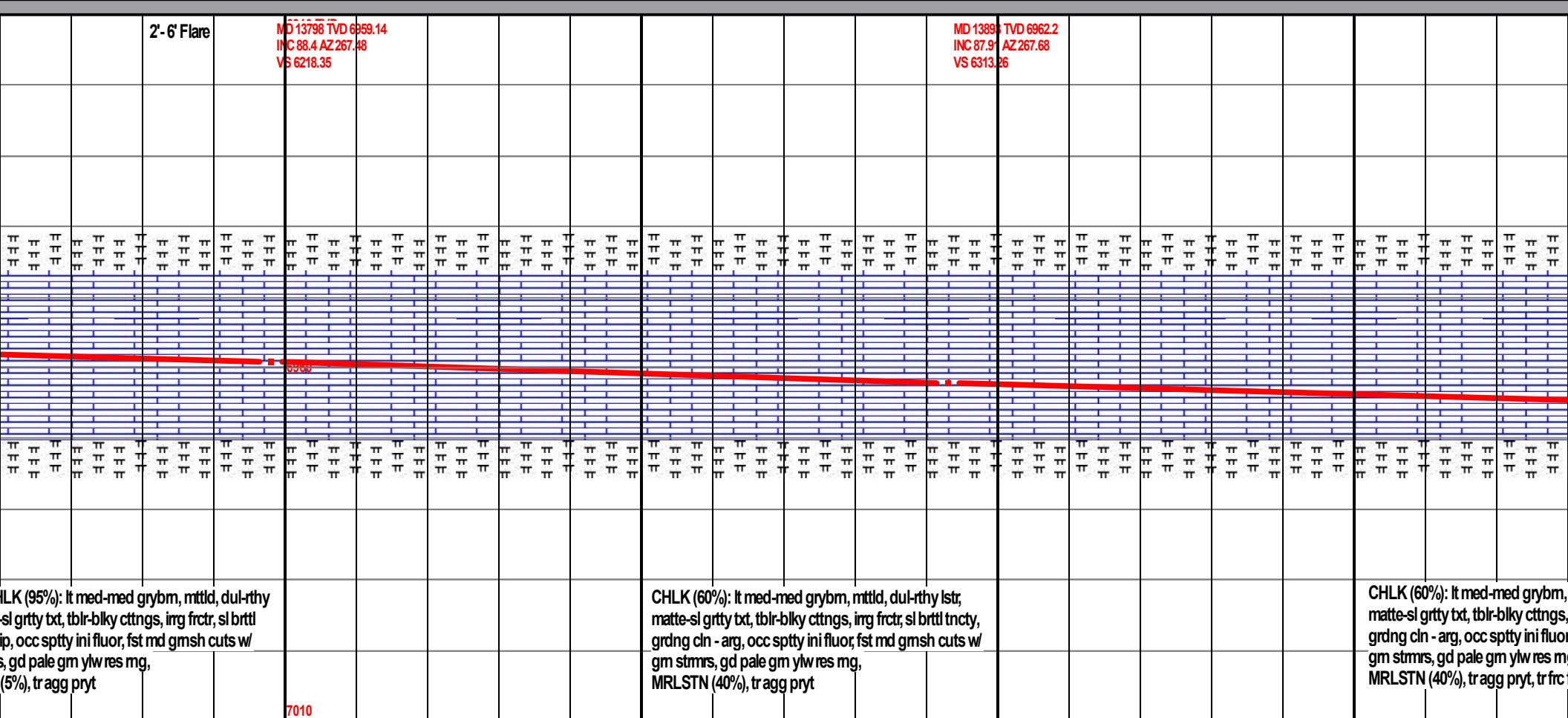
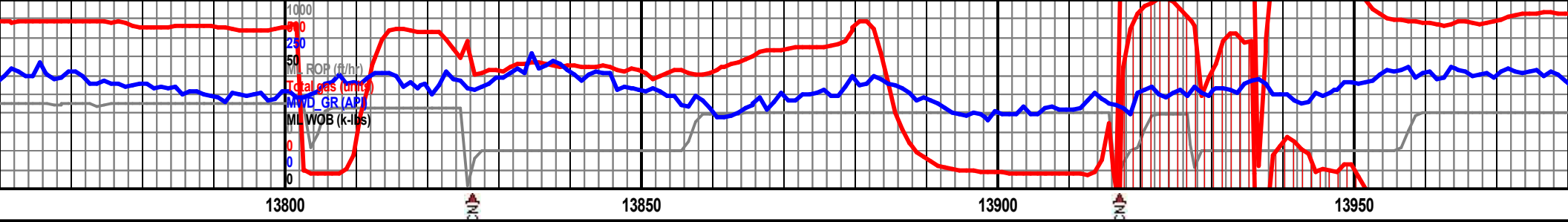


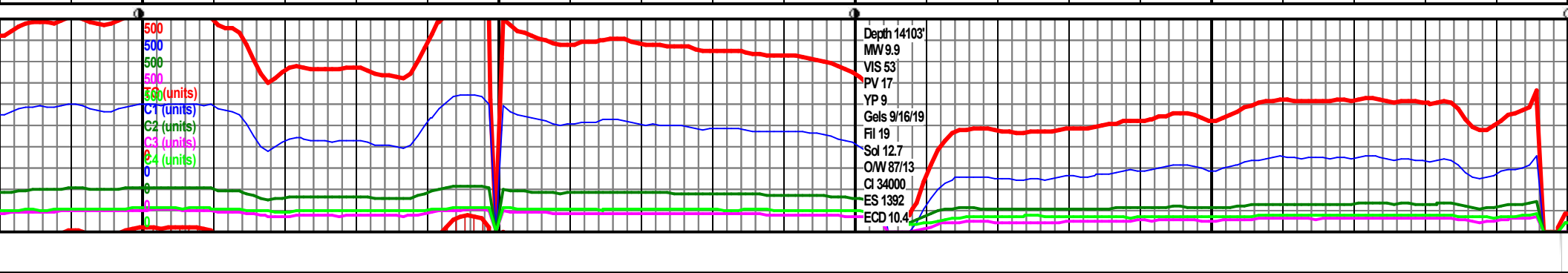
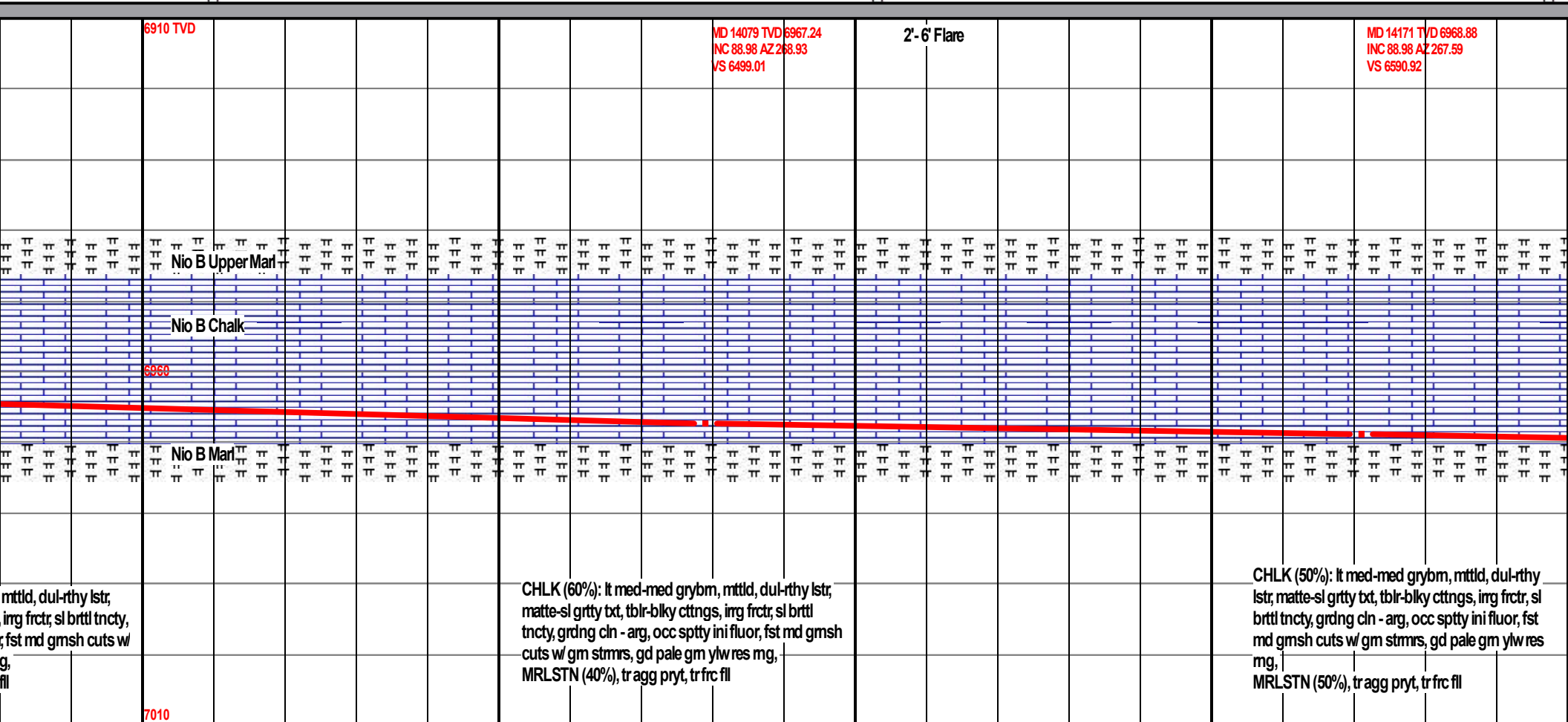
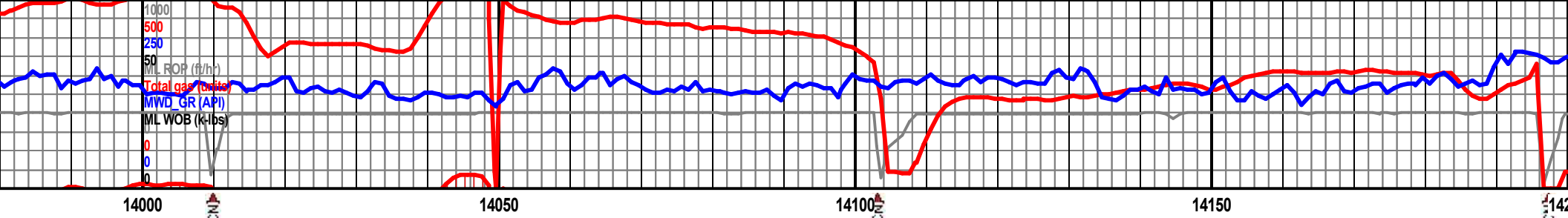


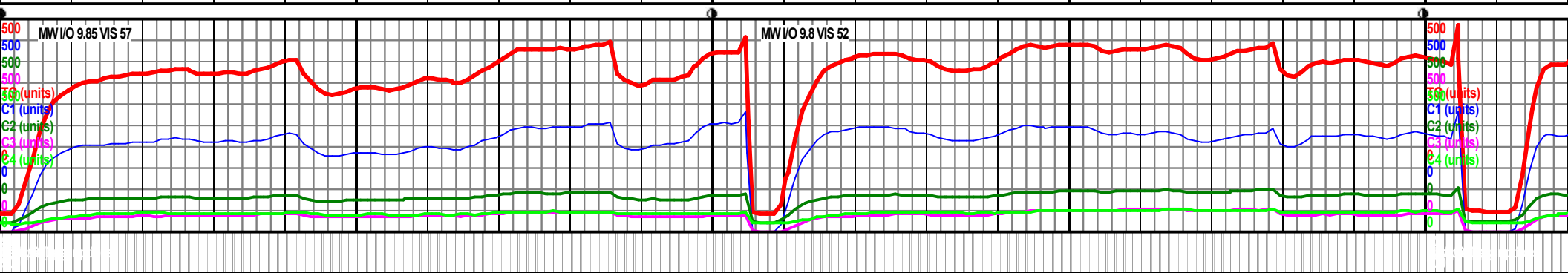
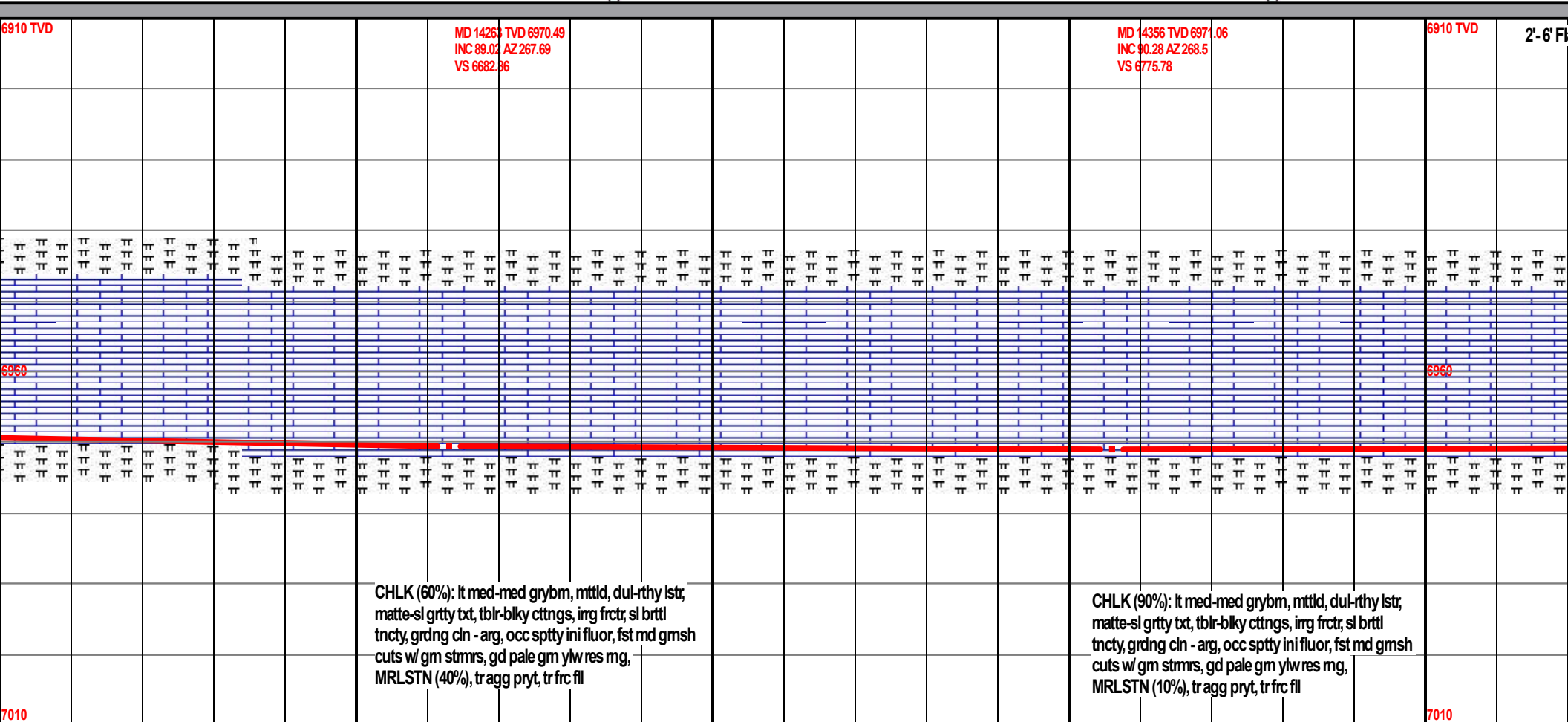
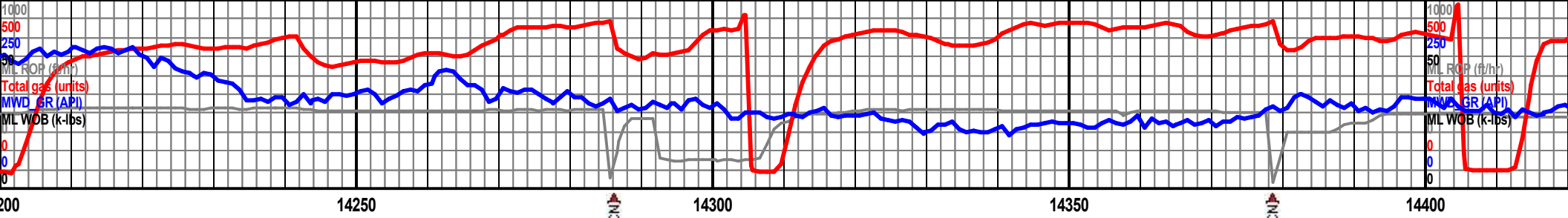


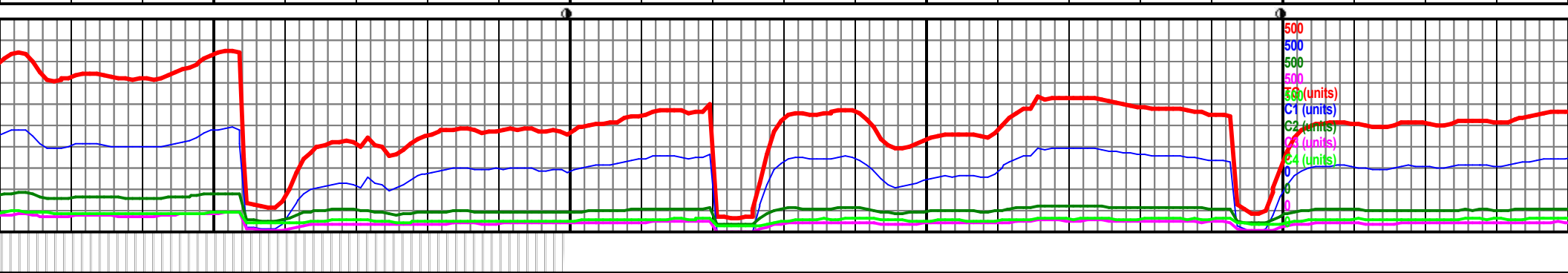
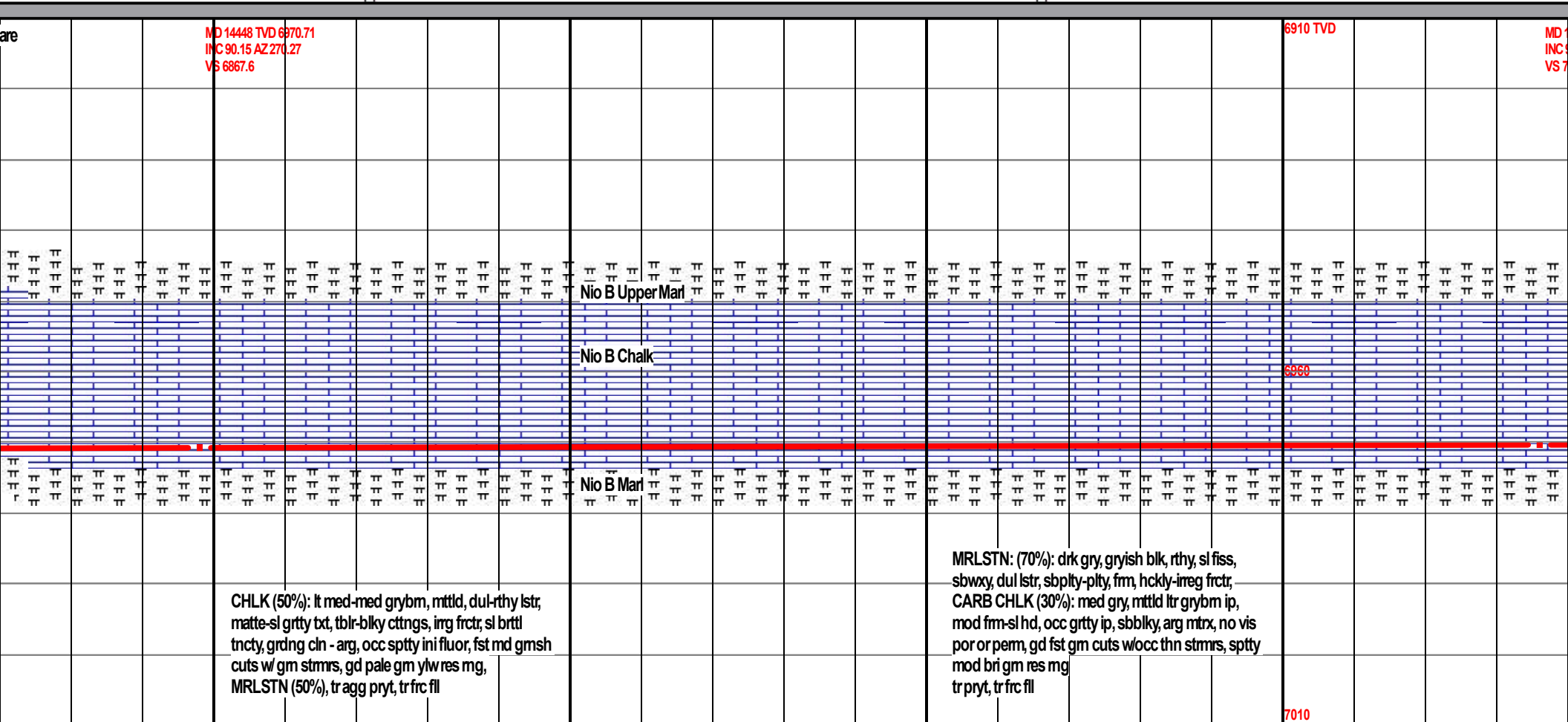
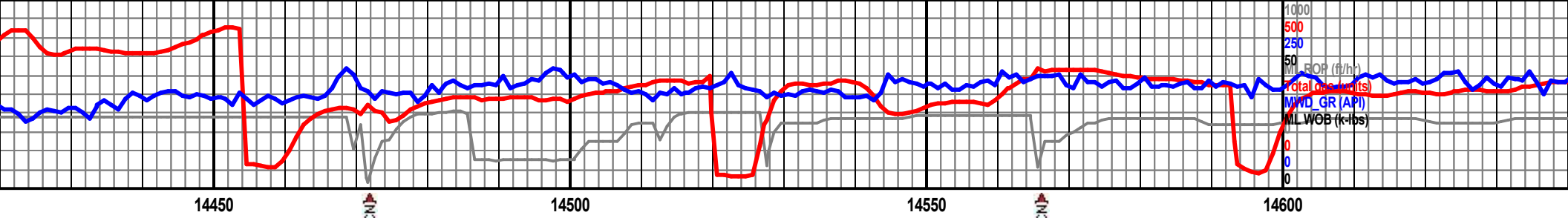


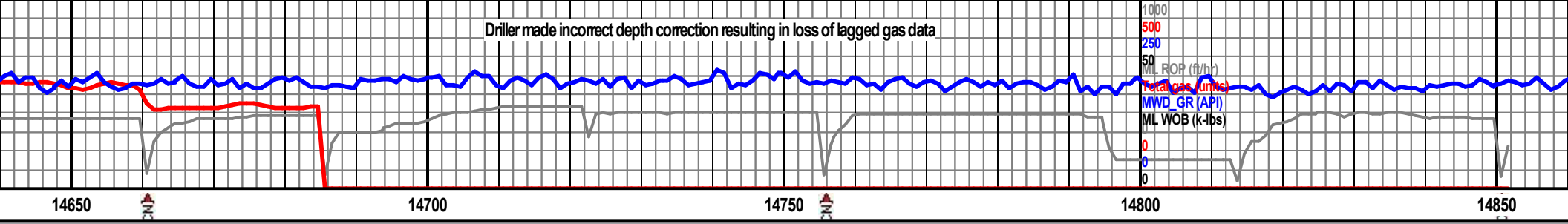




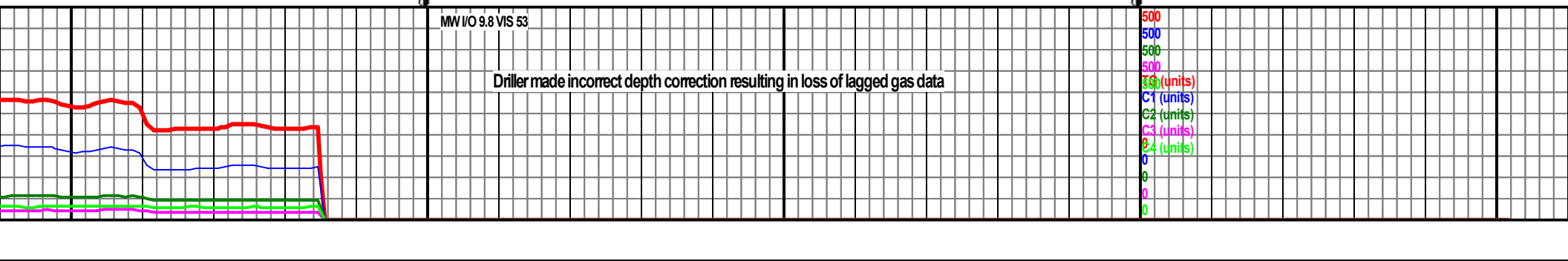


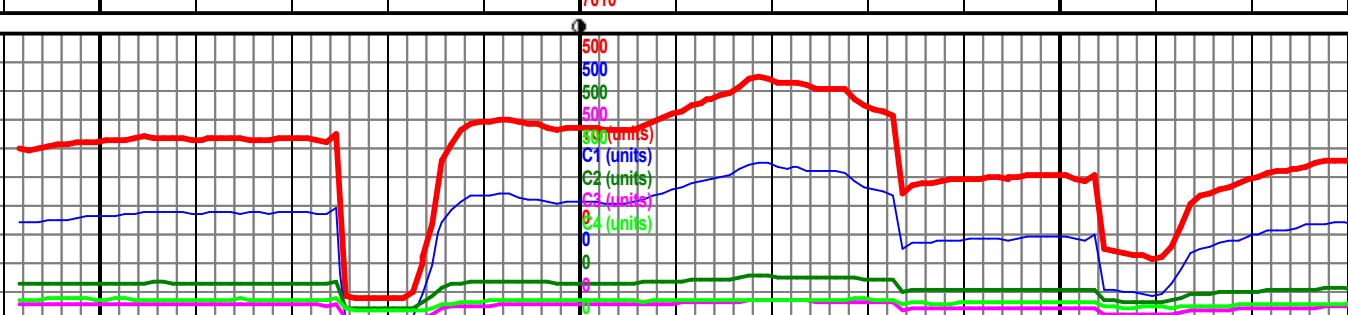
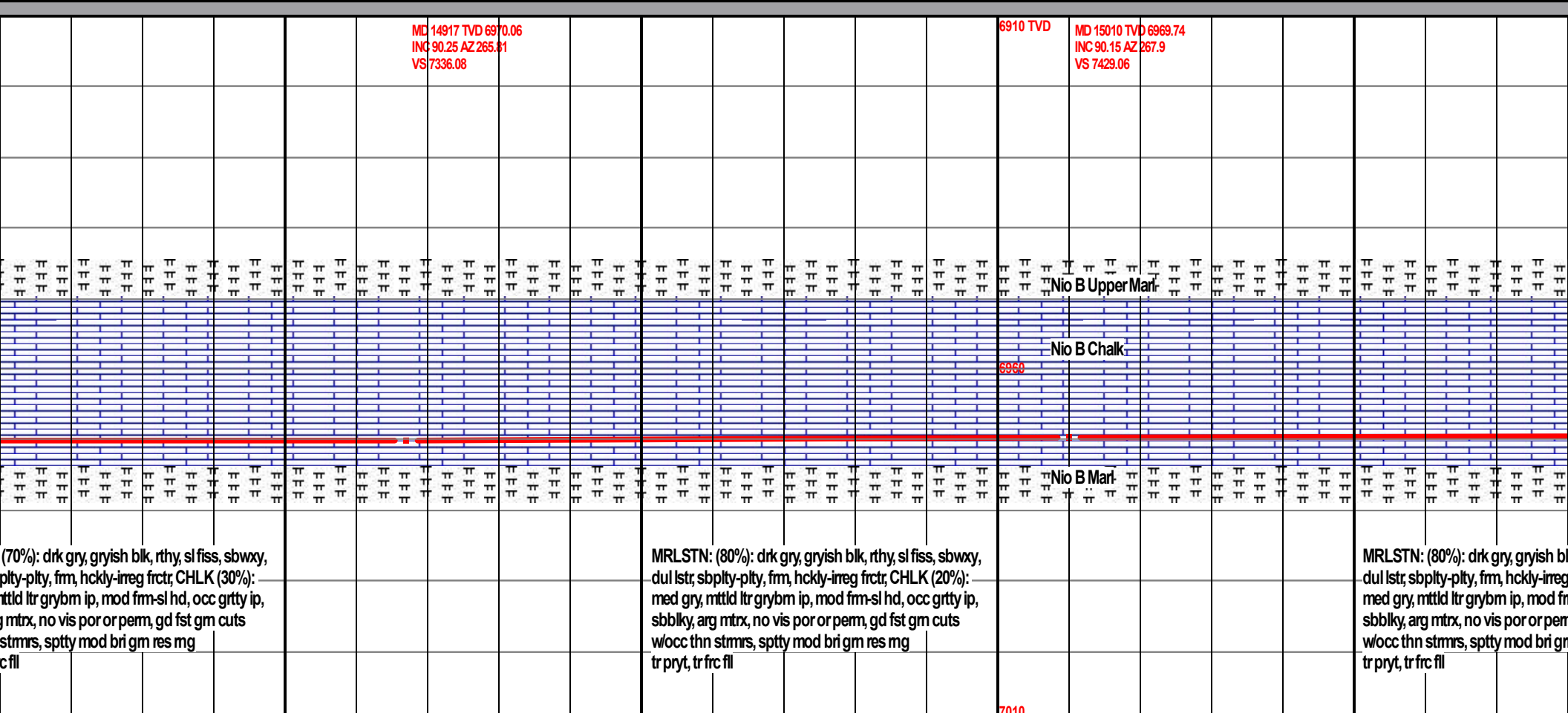


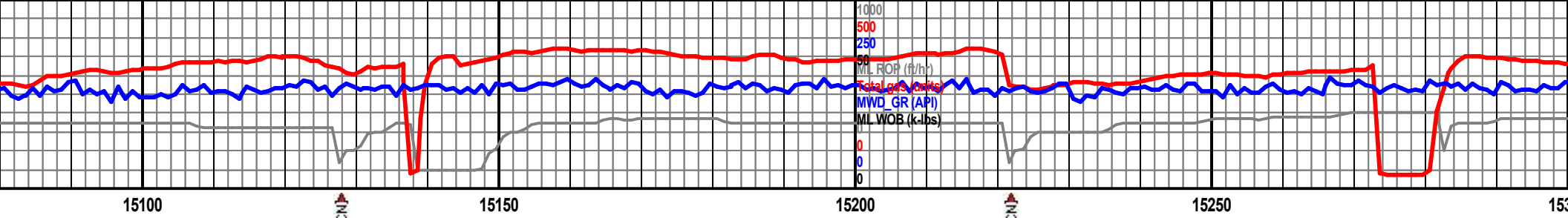




4636 TVD 6970.27 0.12 AZ 269.33 VS 55.15		2'-6" Flare	MD 14730 TVD 6970.17 INC 90 AZ 268.34 VS 7149.09		6910 TVD	MD 14824 TVD 6970.22 INC 89.94 AZ 264.99 VS 7243.08	
<p>MRLSTN: (70%): drk gry, gryish blk, rthy, sl fiss, sbwxy, dul lstr, sbplty-plty, frm, hckly-irreg frctr, CHLK (30%): med gry, mltld ltr grybm ip, mod frm-sl hd, occ grtty ip, sbblky, arg mtrx, no vis por or perm, gd fst gm cuts wocc thn stmrs, sppty mod bri gm res mg tr pryt, tr frc fil</p>							
<p>MRLSTN: (60%): drk gry, gryish blk, rthy, sl fiss, sbwxy, dul lstr, sbplty-plty, frm, hckly-irreg frctr, CHLK (40%): med gry, mltld ltr grybm ip, mod frm-sl hd, occ grtty ip, sbblky, arg mtrx, no vis por or perm, gd fst gm cuts wocc thn stmrs, sppty mod bri gm res mg tr pryt, tr frc fil</p>							
<p>MRLSTN: (60%): drk gry, gryish blk, rthy, sl fiss, sbwxy, dul lstr, sbplty-plty, frm, hckly-irreg frctr, CHLK (40%): med gry, mltld ltr grybm ip, mod frm-sl hd, occ grtty ip, sbblky, arg mtrx, no vis por or perm, gd fst gm cuts wocc thn stmrs, sppty mod bri gm res mg tr pryt, tr frc fil</p>							





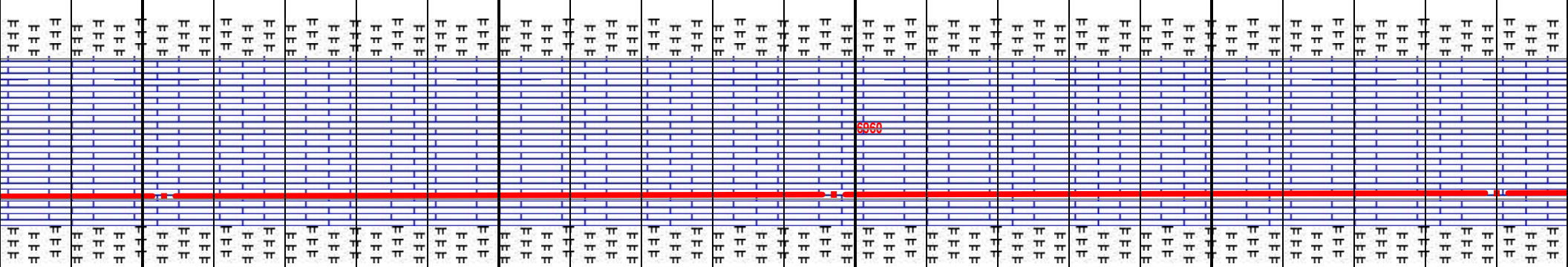


MD 15103 TVD 6969.54
INC 90.09 AZ 265.92
VS 7522.04

2'-6' Flare

MD 15197 TVD 6969.32
INC 90.18 AZ 266.94
VS 7616.03

MD 15290 TVD 6969.32
INC 90.22 AZ 266.94
VS 7708.96

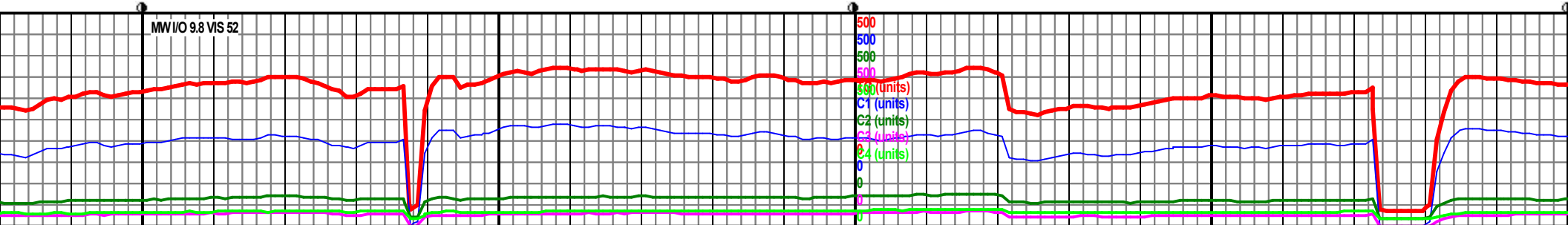


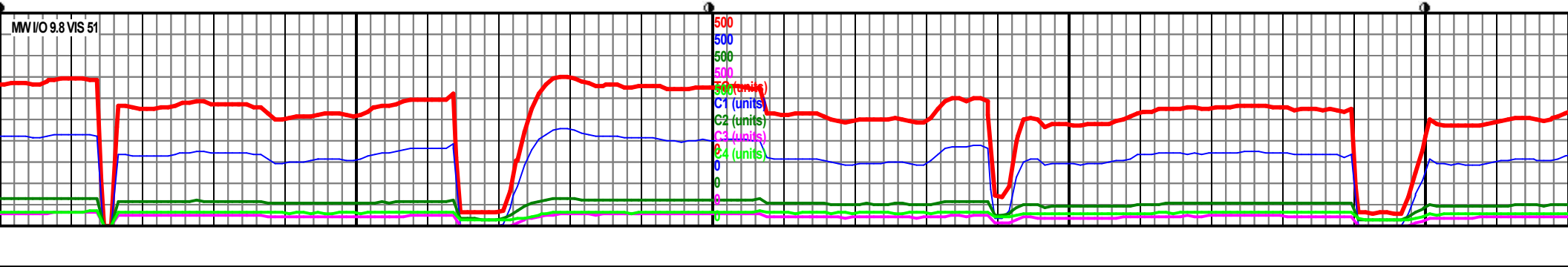
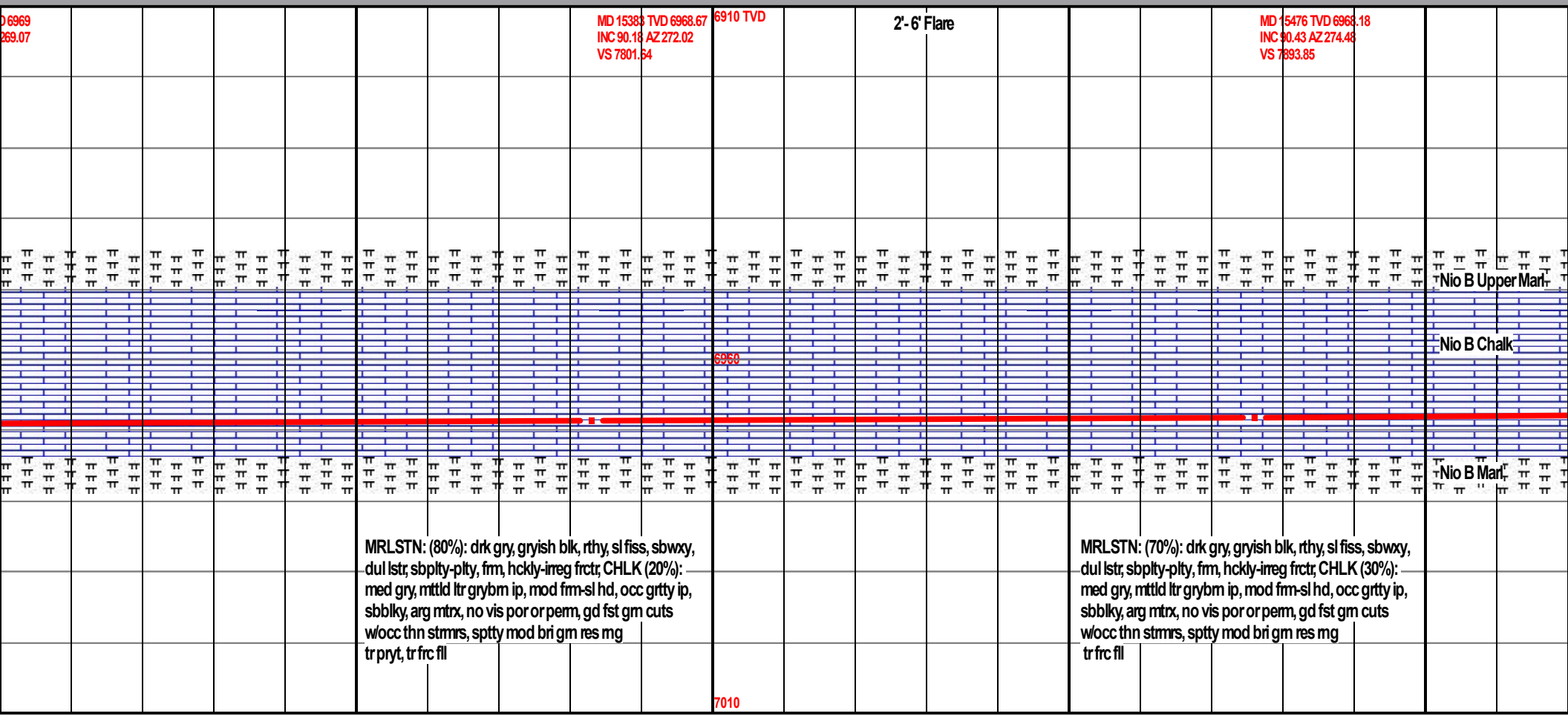
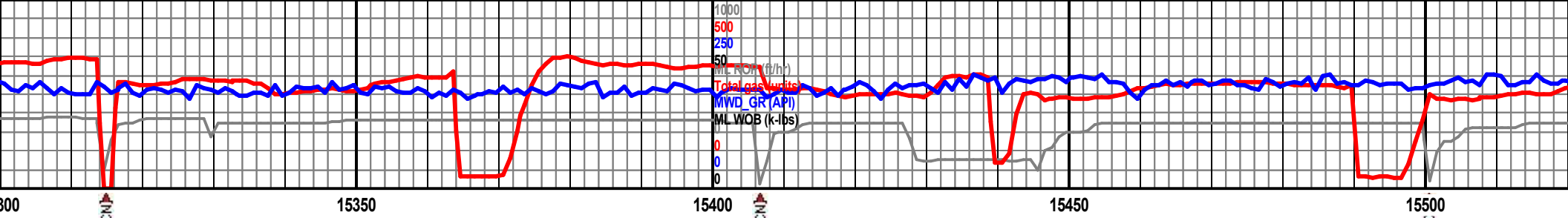
k, rthy, sl fiss, sbwxy,
frctr, CHLK (20%):
m-sl hd, occ grtty ip,
n, gd fst gm cuts
n res mg

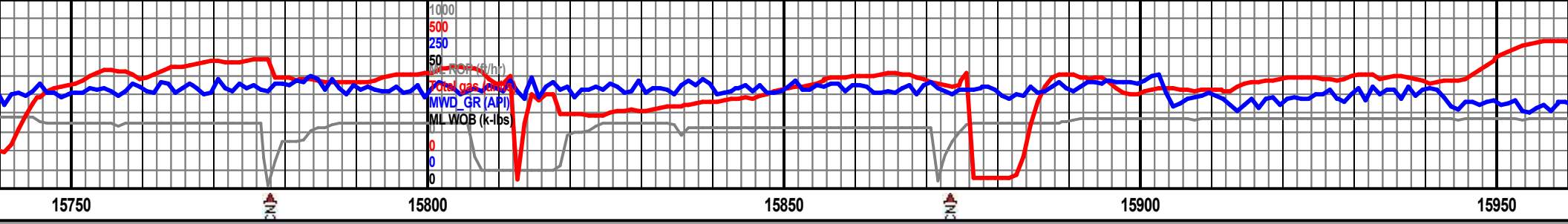
MRLSTN: (80%): drk gry, gryish blk, rthy, sl fiss, sbwxy,
dul lstr, sbplty-plty, frm, hckly-irreg frctr, CHLK (20%):
med gry, mtld ltr grybm ip, mod frm-sl hd, occ grtty ip,
sbbkly, arg mtrx, no vis por or perm, gd fst gm cuts
wocc thn stmrs, sppty mod bri gm res mg
tr pryt, tr frc fl

MRLSTN: (80%): drk gry, gryish blk, rthy, sl fiss, sbwxy,
dul lstr, sbplty-plty, frm, hckly-irreg frctr, CHLK (20%):
med gry, mtld ltr grybm ip, mod frm-sl hd, occ grtty ip,
sbbkly, arg mtrx, no vis por or perm, gd fst gm cuts
wocc thn stmrs, sppty mod bri gm res mg
tr pryt, tr frc fl

MW I/O 9.8 VIS 52





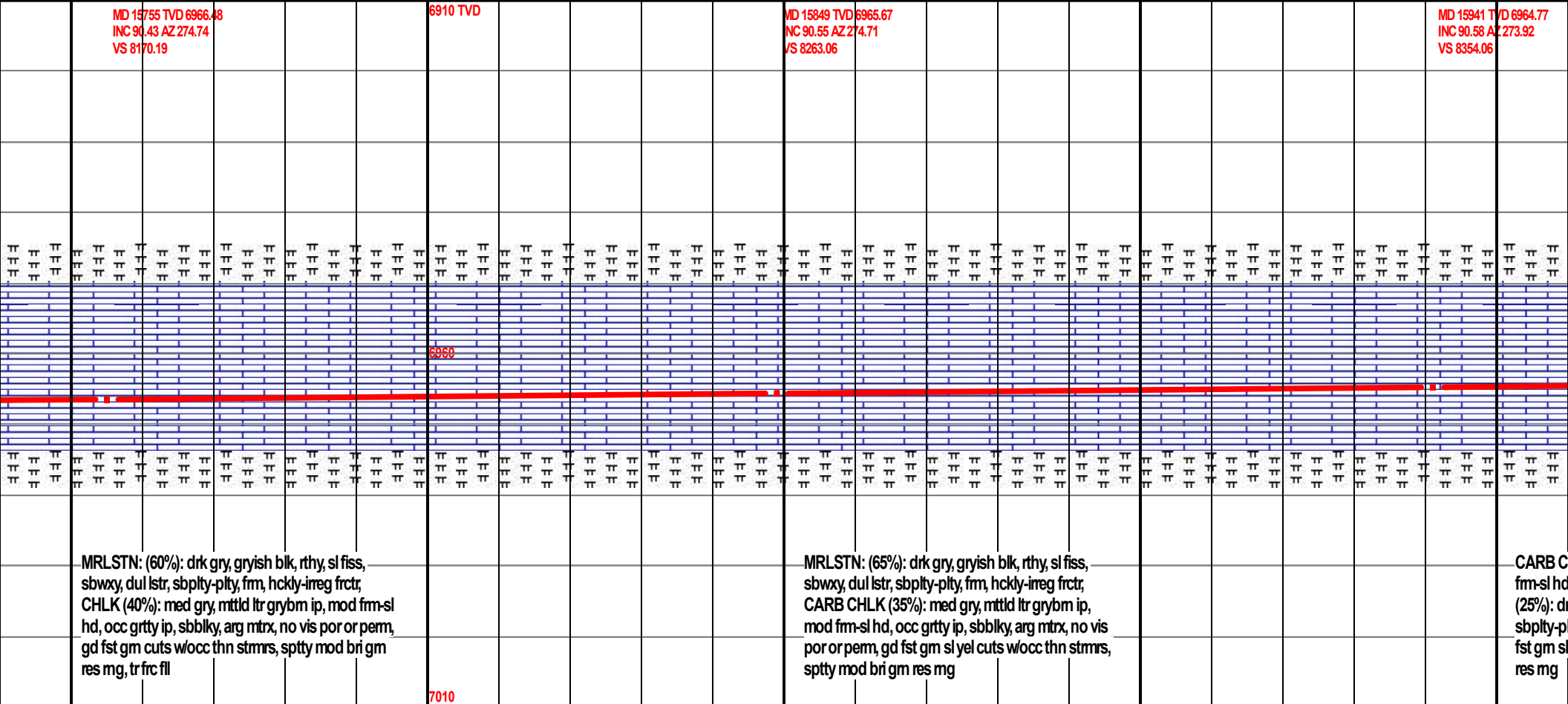


MD 15755 TVD 6966.48
INC 90.43 AZ 274.74
VS 8170.19

6910 TVD

MD 15849 TVD 6965.67
INC 90.55 AZ 274.71
VS 8263.06

MD 15941 TVD 6964.77
INC 90.58 AZ 273.92
VS 8354.06

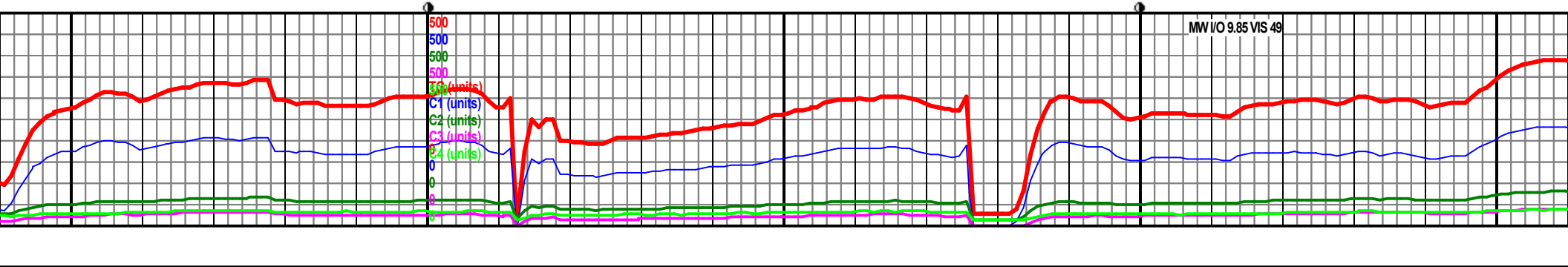


MRLSTN: (60%): drk gry, gryish blk, rthy, sl fiss,
sbwxy, dul lstr, sbpity-plty, fm, hckly-irreg frctr,
CHLK (40%): med gry, mttld ltr grybm ip, mod frm-sl
hd, occ grtty ip, sbbiky, arg mtrx, no vis por or perm,
gd fst gm cuts w/occ thn stmr, spty mod bri gm
res mg, tr frc fill

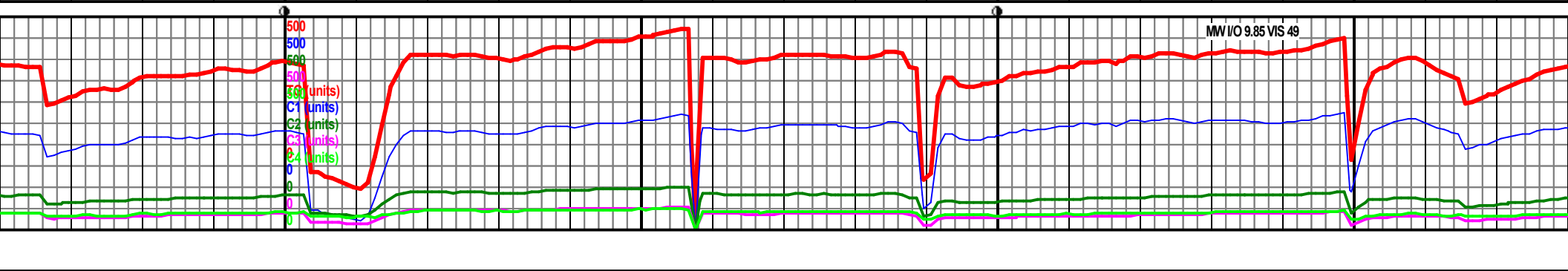
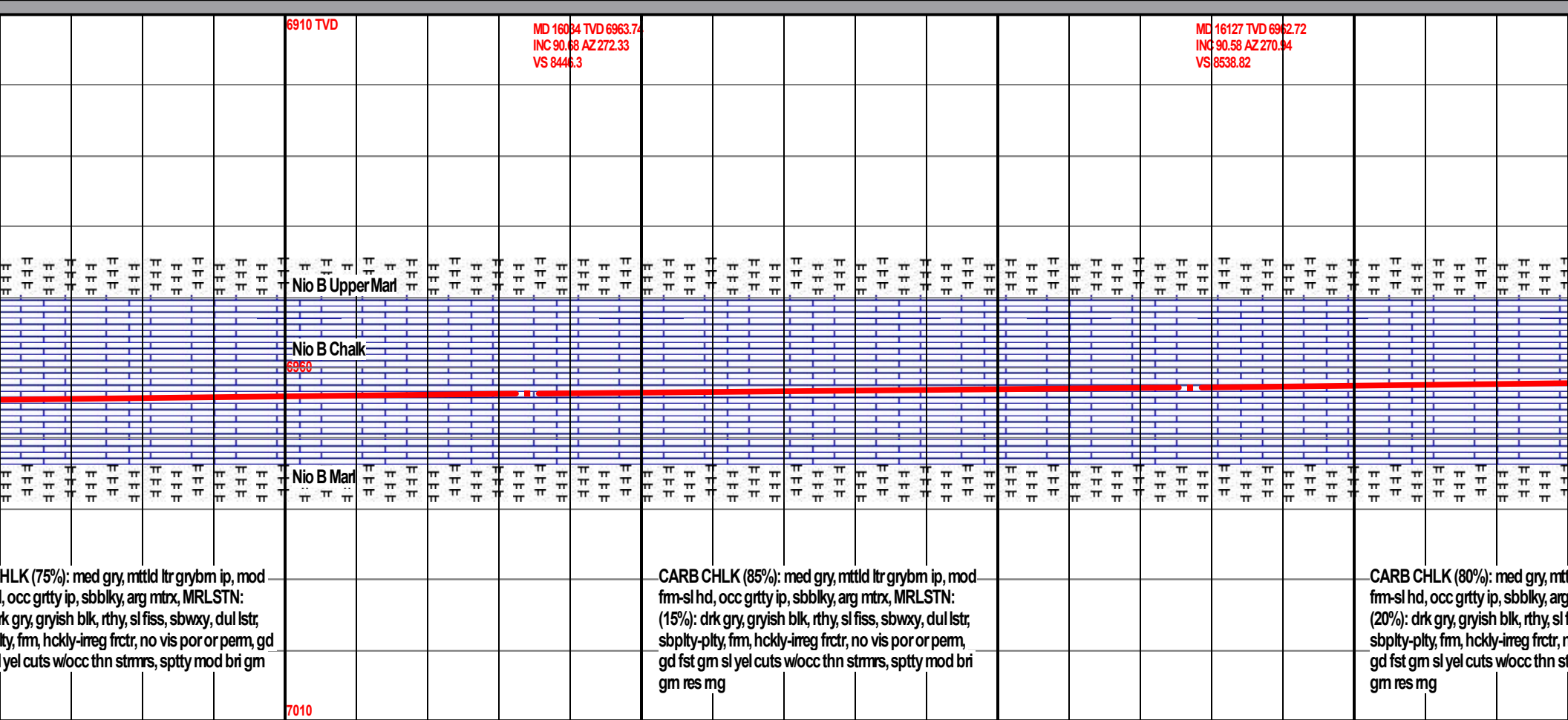
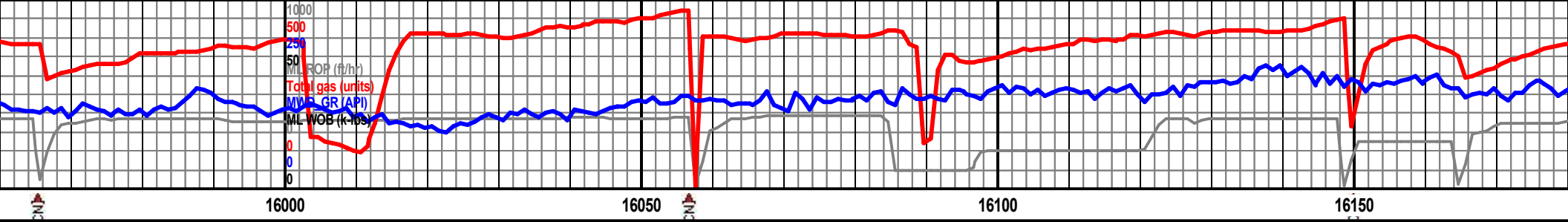
MRLSTN: (65%): drk gry, gryish blk, rthy, sl fiss,
sbwxy, dul lstr, sbpity-plty, fm, hckly-irreg frctr,
CARB CHLK (35%): med gry, mttld ltr grybm ip,
mod frm-sl hd, occ grtty ip, sbbiky, arg mtrx, no vis
por or perm, gd fst gm sl yel cuts w/occ thn stmr,
spty mod bri gm res mg

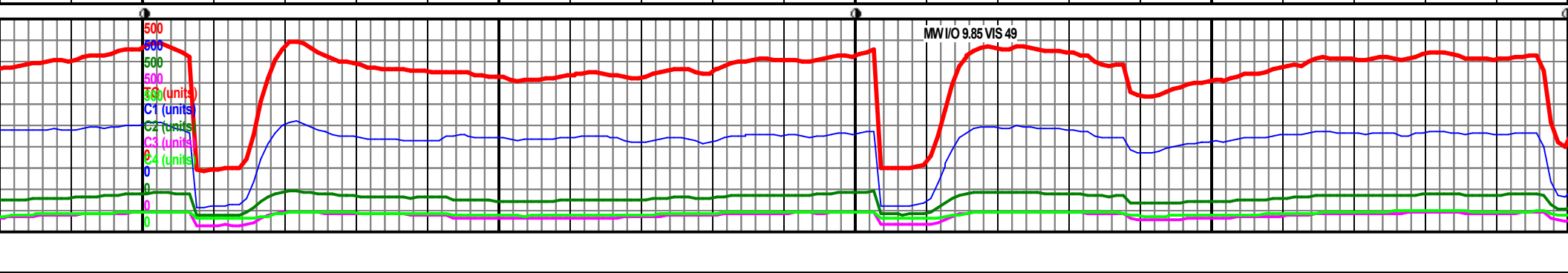
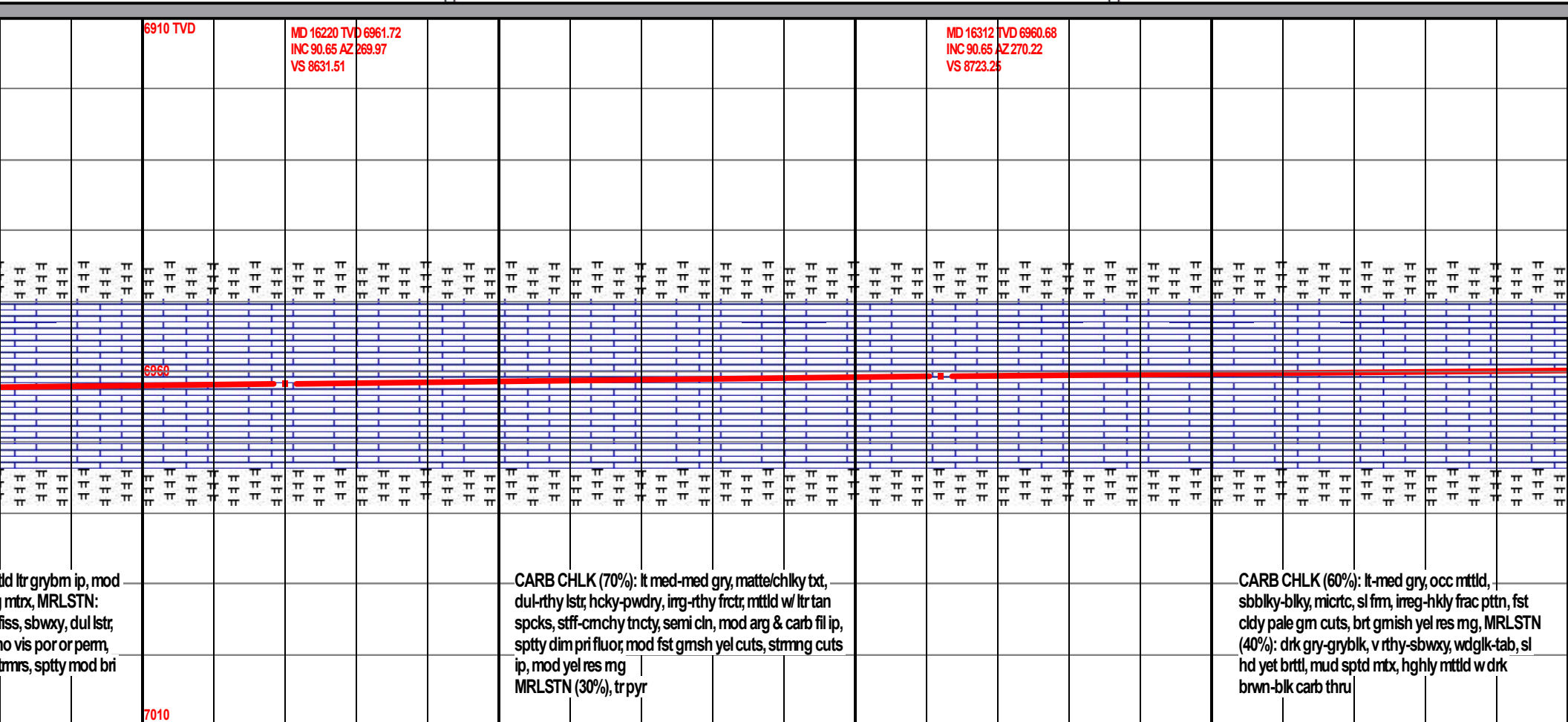
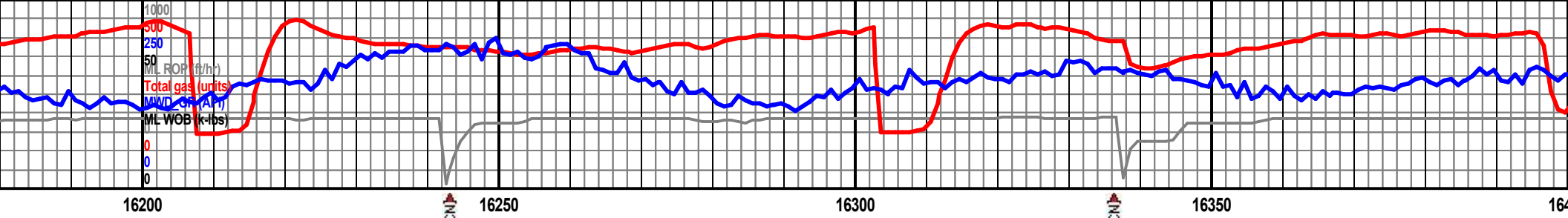
CARB C
fm-sl hd
(25%): dr
sbpity-pl
fst gm sl
res mg

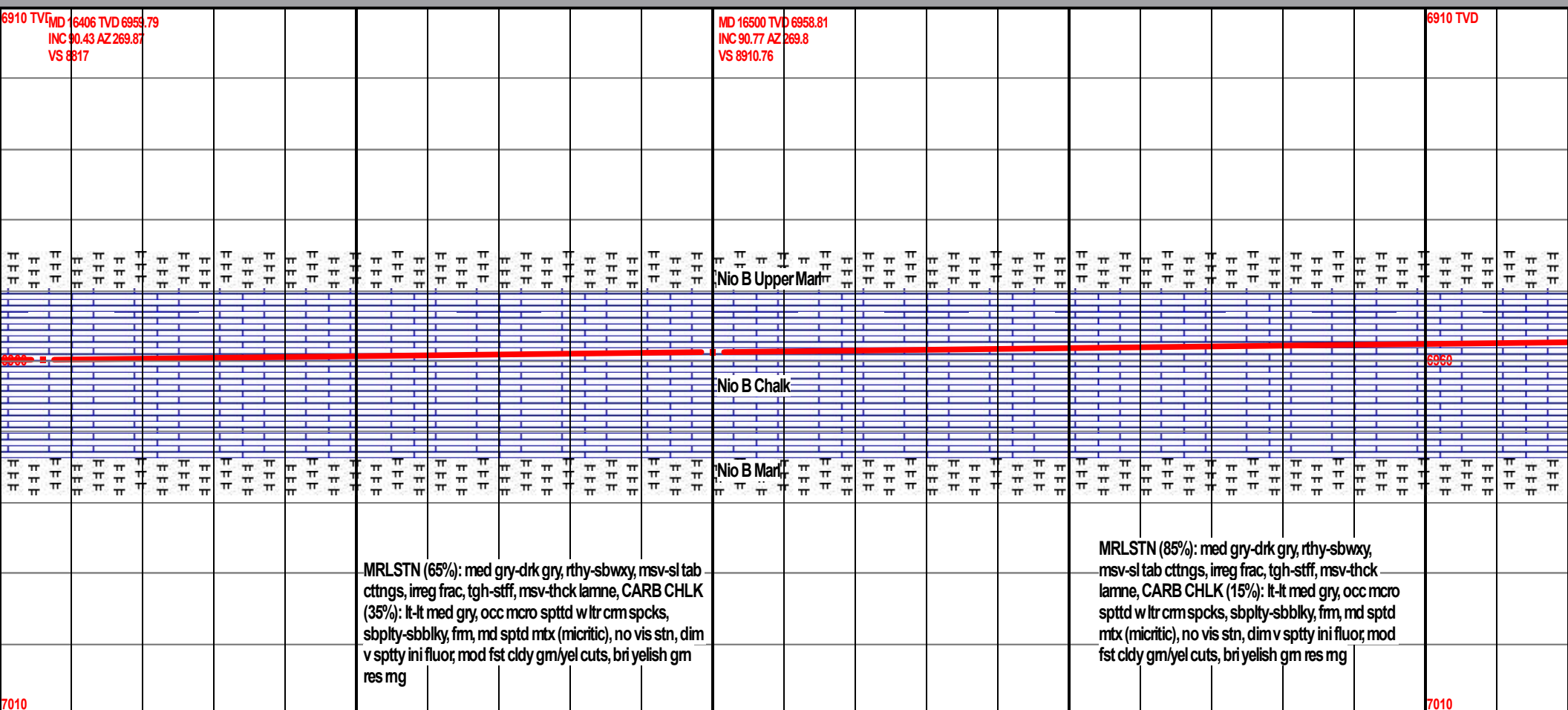
7010

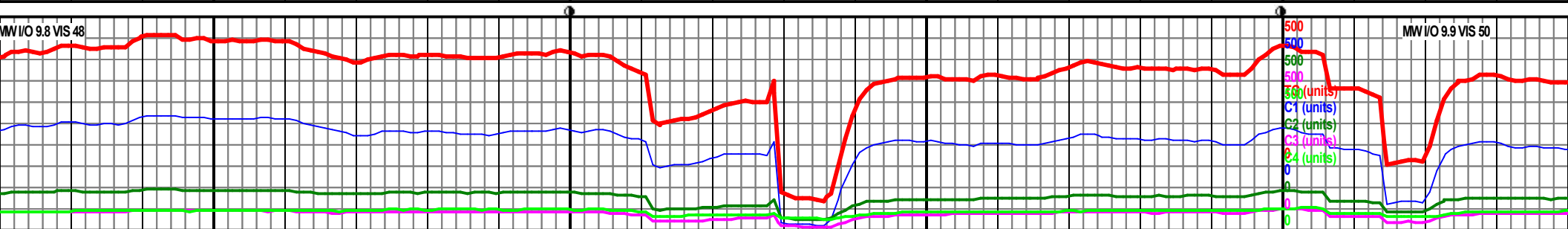
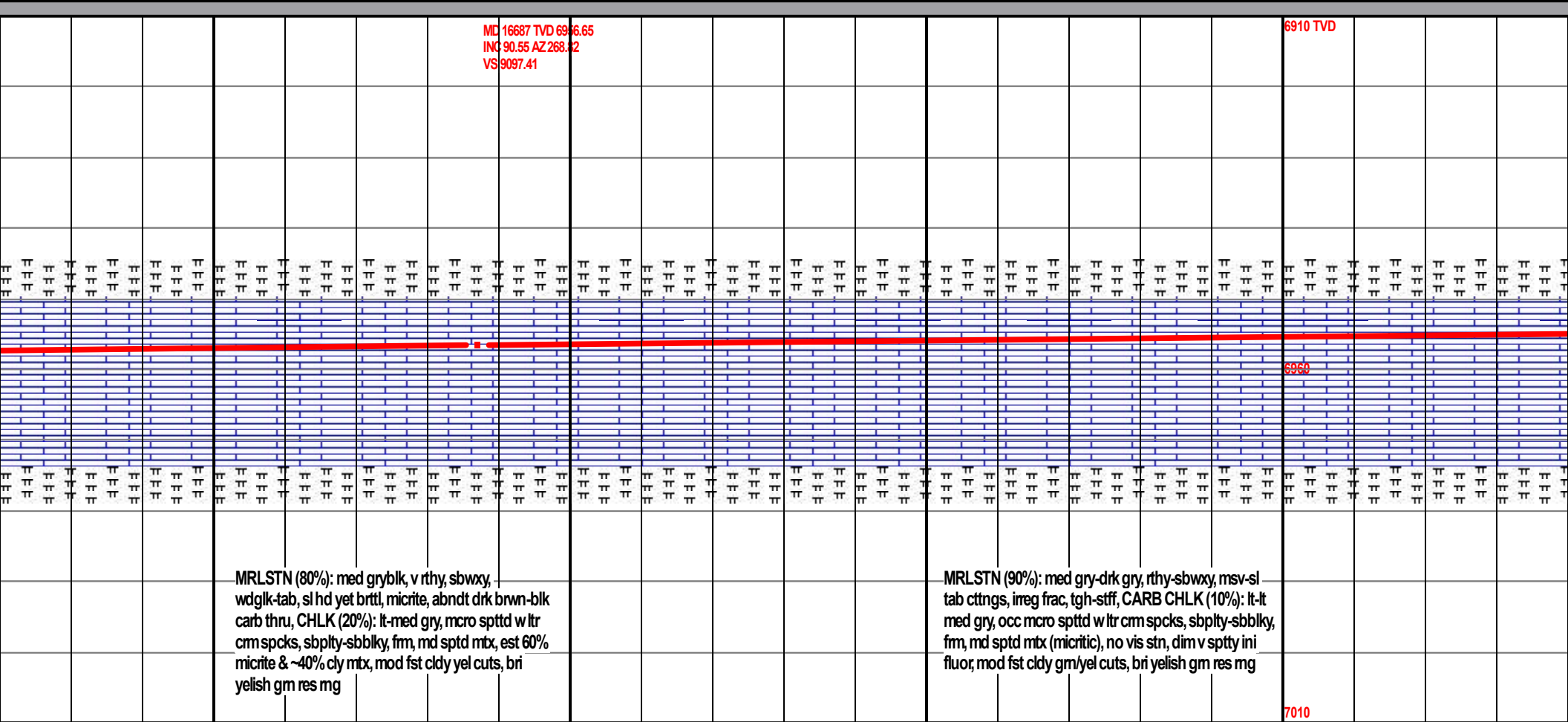


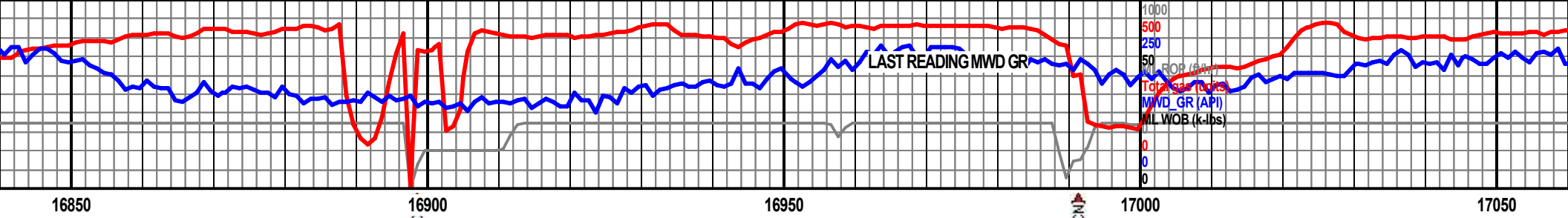
MW I/O 9.85 VIS 49





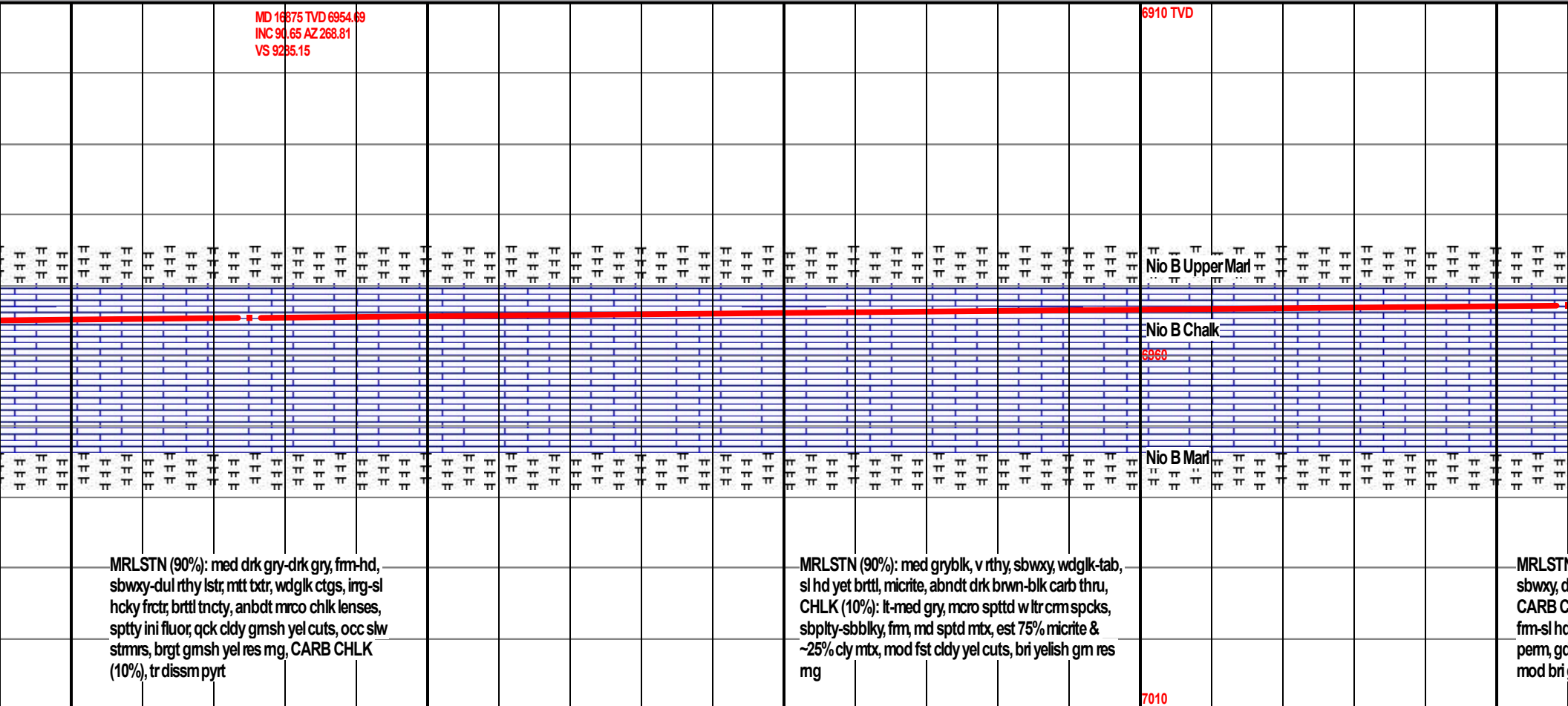




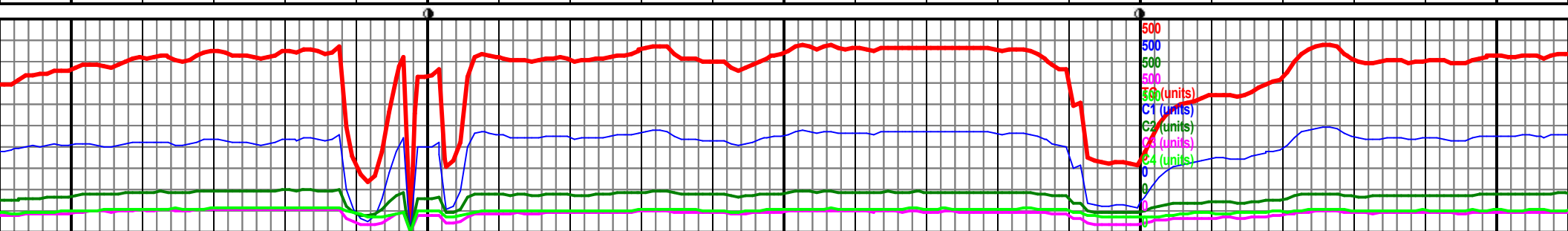


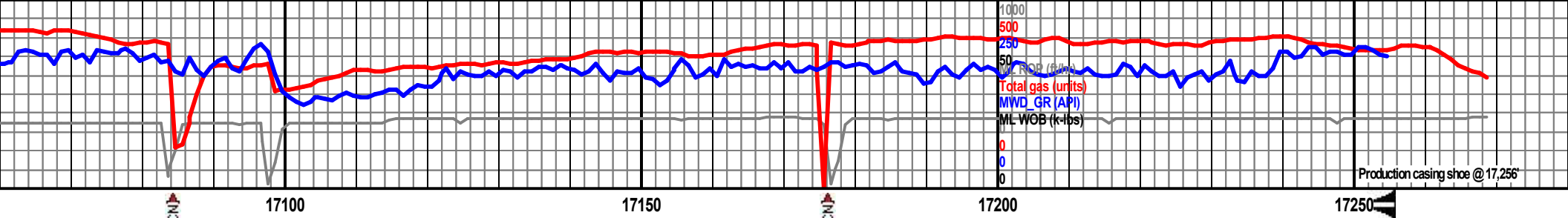
MD 16875 TVD 6954.69
INC 90.65 AZ 268.81
VS 9285.15

6910 TVD



7010



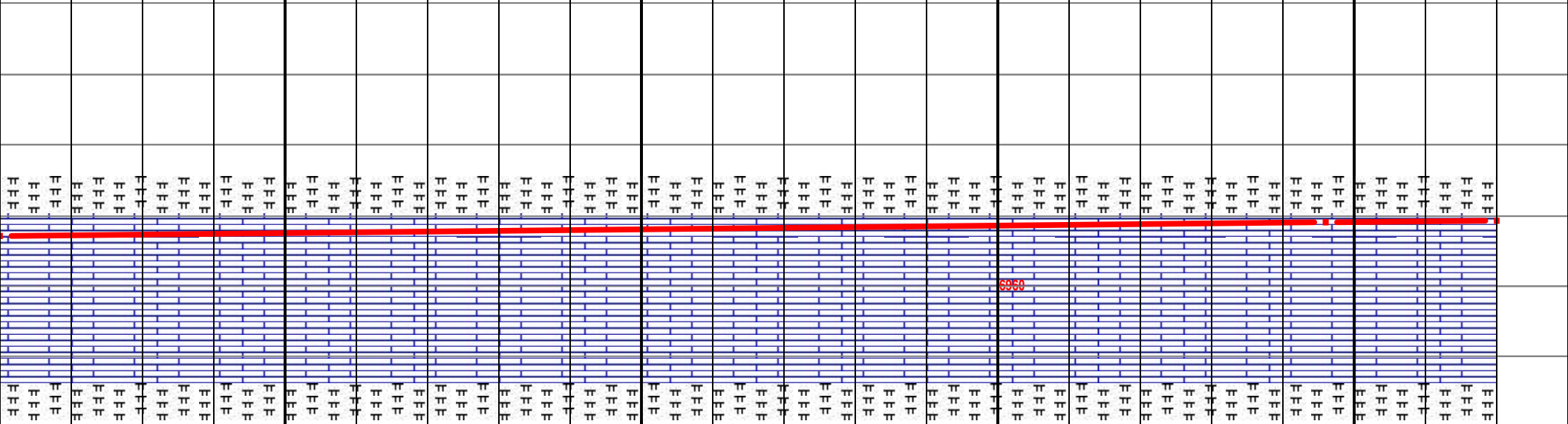


MD 17060 TVD 6952.84
INC 90.49 AZ 269.16
VS 9469.86

6910 TVD

MD 17246 TVD 6950.99
INC 90.65 AZ 269.13
VS 9555.54

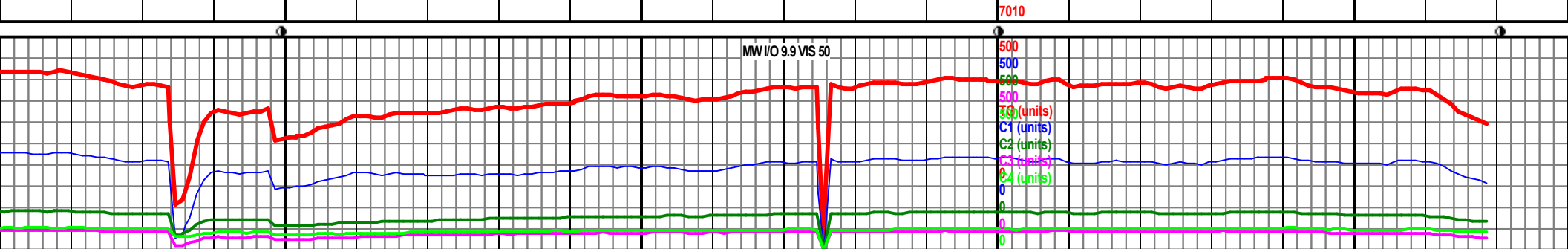
MD 17270 TVD 6950.99
INC 90.65 AZ 269.13
VS 9679.5



N: (95%): drk gry, gryish blk, rthy, sl fiss,
lul lstr, sbply-pty, fm, hckly-irreg frctr,
HLK (5%): med gry, mttld ltr grybm ip, mod
t, occ grtty ip, sbblky, arg mtrx, no vis por or
t fst gm sl yel cuts w/occ thn strms, sptty
gm res mg

MRLSTN (95%): med-med drk gry, frm-hrd,
sbwxy-dul rthy lstr, matte btxr, mssv-wdglk ctgs,
ing-sl hcky frctr, brtl tncy, thn chiky lams, sptty ini
fluor, mod fst mod gmsh yel cuts w/ strms,
mod-brgt gmsh yel-gm res mg, CARB CHLK (5%),
rr pryt, tr fos frags

MRLSTN (95%): med-med drk gry
sbwxy-dul rthy lstr, matte btxr, ms
ing-sl hcky frctr, brtl tncy, thn ch
fluor, mod fst mod gmsh yel cuts
mod-brgt gmsh yel-gm res mg,
rr pryt, tr fos frags



6950.72 269.13		Reached DMTD of 17,270' MD @ 20:56 hrs. on 8/8/2018		
		2 man wellsite geologist released from location on August 9, 2018 @ 01:00 hrs.		
		Circ & Condition Hole, TOOH, run casing, cement casing.		
		BHA #3, 8 1/2", BAKER, ADT505T, #5285465, 5X15, In @ 2348', out @ 17270', drilled 14922' in 42.9 hrs., Rotary Steerable, AutoTrak, MWD, MM, XL45/RS; .27 rpg		
		Formation tops picked by Andrew Krueger and Larry Goolsby GBA.		
			MD	TVD
		S Springs	7013'	6863'
		"A" Chalk	7079'	6902'
		"A" Chalk Base	7126'	6924'
		"B" Upper Marl	7300'	6995'
		"B" Chalk	7314'	7004'
		Target Heel	7475'	7020'
		DMTD	17270'	6951'
y, frm-hrd, sv-wdglk ctgs, lky lams, sptty ini s w/ strms, CARB CHLK (5%),		THANK YOU FOR CHOOSING GOOLSBY BROTHERS & ASSOCIATES, Andrew Krueger & Larry Goolsby		