

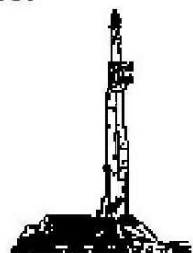
GOOLSBY BROTHERS
and associates, inc.

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: SRC Williams 12-4-5NM-C

API: 051234316700

Location: Section 4, T4N, R67W, Weld County, CO.

License Number:

Spud Date: December 21, 2016

Surface Coordinates: NENW T4N, R67W, Sec 4, 1100' FNL & 2423' FWL
40.345977" N Latitude; -104.89763" W Longitude

Bottom Hole

Coordinates:

Ground Elevation (ft): 4,794'

Logged Interval (ft): 6,400

To: 13,669

K.B. Elevation (ft): 4,814'

Total Depth (ft): 13,669

Formation: Pierre Shales / Sands, Niobrara "C" Target

Type of Drilling Fluid: LSNG Surface, OBM Curve & Lateral

Region: Wattenberg

Drilling Completed: December 23, 2016

Printed by HORIZONTAL.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Synergy Resources Corporation

Address: 1625 Broadway, Suite 300
Denver, Colorado 80202
(720) 616-4300

GEOLOGIST

Name: Phillip Willcox & Daniel Kabala

Company: Goolsby Brothers & Assoc. (GBA), Inc. (www.goolsbybrothers.com)

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

E-logs

PULSE MWD GR from 1,780' - 13,656'

Casing

9 5/8" Surface Casing set @ 1,762' MD

5 1/2" Production Casing set @ xxxxx' MD

Comments

1) Drilling Contractor: Precision Drilling, Rig #462

Toolpusher: Erion Yocom
Bobby Choquette


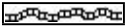
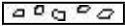

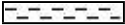
2) Company Man: Sean Devereaux
Lovel Young



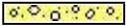


3) Mud Comapny : Halliburton Baroid 41
Engineer: Nicholas Ondler


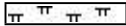


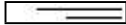
4) Directional Drilling: Baker Huges Directional
Rotary Steerable BHA

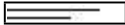




5) Gas Equipment: Pason Gas Analyzer (Spectrometer)

ROCK TYPES

 Anhy
 Bent
 Brec
 Cht
 Clyst

 Coal
 Oil sat.
 Congl
 Dol
 Gyp

 Lmst
 Mrlst
 Salt
 Shale
 Shcol

 Shgy
 Ss
 Sltst
 Ss
 Chalk

 Carb sh
 Sltty 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

OIL SHOWS

Even
 Spotted
 Ques
 Dead
 Vspotty



near even

POROSITY TYPE

Earthy
 Fenest
 Fracture



Inter



Moldic



Organic



Pinpoint



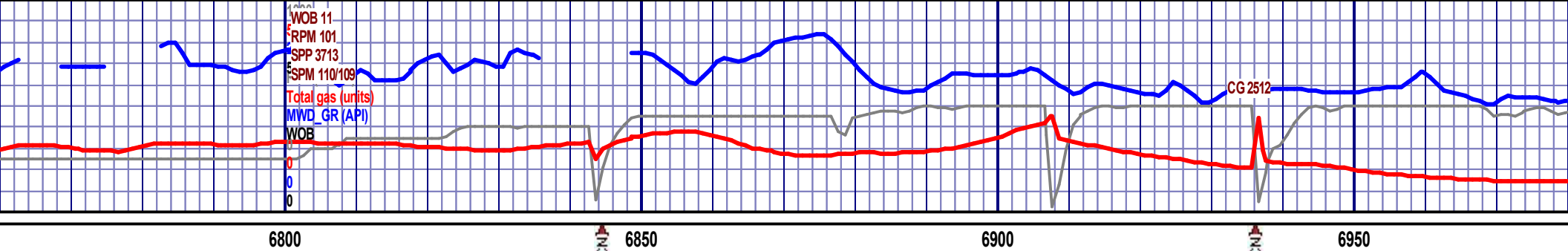
Vuggy

ROUNDING

Rounded
 Subrnd
 Subang
 Angular

SORTING

Well
 Moderate
 Poor



90%: drk brwn/gy, frm-sft, sb pty-sb blk, rthy lstr, grtty, com mottld carb mat.
10%: lt gry, mottld whi, sft-mod frm, occ brit, sb pty-sb-blky, rthy lstr, v calc. sh w pyr nods

6600 TVD

MD 6820 TVD 6701.43
INC 56.93 AZ 267.69
VS 86.03

MARL (90%): drk brwn/gy, frm-sft, sb pty-sb blk, rthy lstr, grtty, com mottld carb mat.
CHLK (10%): lt gry, mottld whi, sft-mod frm, occ brit, sb pty-sb-blky, rthy lstr, v calc. com SH
tr BENT Sh w pyr nods
vry tr BENT (phylo) w pyr

6650

Niobrara B Chalk absent due to an Unconformity present in Niobrara strata!

6700

6700 TVD

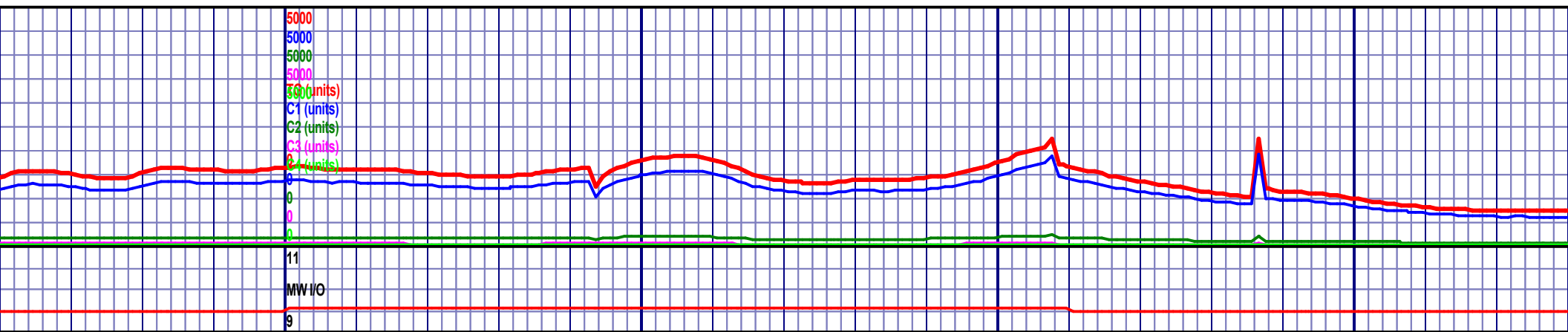
Niobrara "B" Marl @ 6861' MD (6724' TVD) 6745.53
VS 167.75

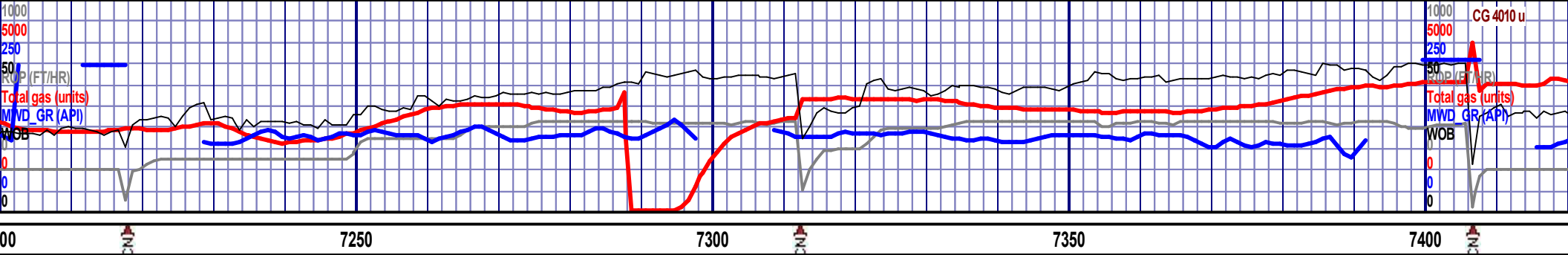
MARL (90%): drk brwn/gy, frm-sft, sb pty-sb blk, rthy lstr, grtty, com mottld carb mat.
CHLK (10%): lt gry, mottld whi, sft-mod frm, occ brit, sb pty-sb-blky, rthy lstr, v calc. com SH
tr BENT Sh w pyr nods
vry tr BENT (phylo) w pyr

6800

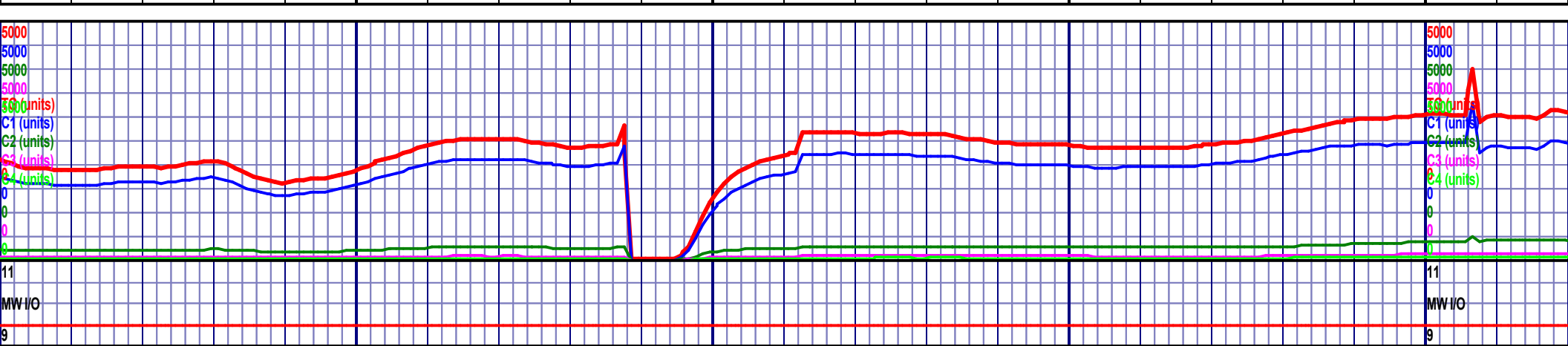
MARL (90%): drk brwn/gy, frm-sft, sb pty-sb blk, rthy lstr, grtty, com mottld carb mat.
CHLK (10%): lt gry, mottld whi, sft-mod frm, occ brit, sb pty-sb-blky, rthy lstr, v calc. com SH
tr BENT Sh w pyr nods
vry tr BENT (phylo) w pyr

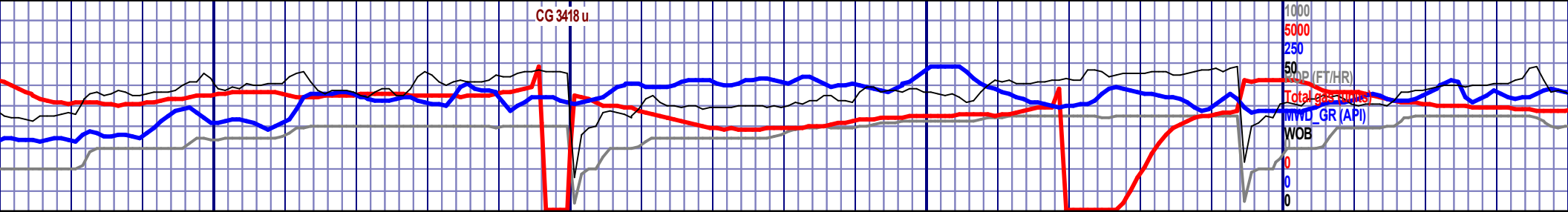
MARL: (40%) drk brwn/gy, frm-sft, sb pty-sb blk, rthy lstr, grtty, com mottld carb mat.
CARB CHLK: (60%)
vry tr BENT Sh w pyr nods
vry tr BENT (phylo) w pyr





4 TVD 6823.59 87 AZ 265.93 64	MD 7288 TVD 6829.74 INC 89.63 AZ 269.63 VS 530.32	MD 7382 TVD 6830.3 INC 89.69 AZ 270.05 VS 624.11	6760 TVD
mtld med k - med - med lt gy, ky, frm - mod hd, pred cln - % cly mtx, tr iridesc o flm, tr brn gn org fib mtrl (prob 5%, infer chlk por	CARB CHLK: (90%) mtld med k - med - med lt gy, chlky txt, chnky - blk, frm - mod hd, pred cln - arg chlk ip w/ est 30% cly mtx, tr iridesc o flm, tr fltg o droplets, tr fltg brn gn org fib mtrl (prob algae), all org mtrl <5%, infer chlk por MARL: (10%)	NO SAMPLE	
C Chalk			
6810			6810
C Marl			
6860			6860





7450

7500

7550

7600

MD 7475 TVD 6830.6
INC 89.94 AZ 269.89
VS 716.89

MD 7569 TVD 6830.7
INC 89.94 AZ 269
VS 810.72

6760 TVD

MARL: (70%) mtlid med dk - dk gy, fn smth -
sbfiss txt, dull rthy lstr, plty - blk, frm, v v calc
w/ est 40% micrite & grdg to arg chlk ip, tr o flm
& o droplets as insol res w/ HCL, total insol org
res <3%

MARL: (70%) mtlid med dk - dk gy, fn smth -
sbfiss txt, dull rthy lstr, plty - blk, frm, v v calc
w/ est 40% micrite & grdg to arg chlk ip, tr o flm &
o droplets as insol res w/ HCL, total insol org res
<3%, sl tr mic-meso xln wht calct w/ ptchy euhed
pyr as poss frac fl

CHLK: (30%)

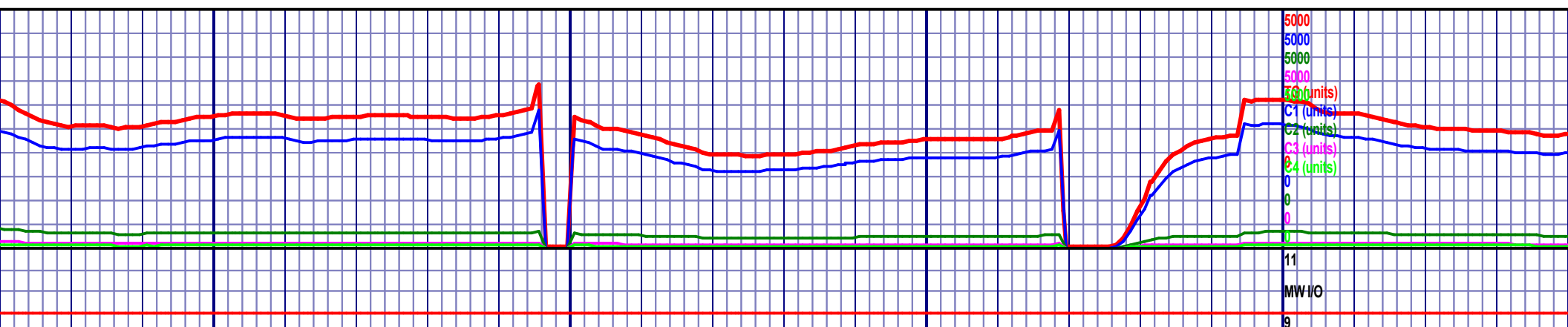
CHLK: (30%)

C Chalk

C Marl

6810

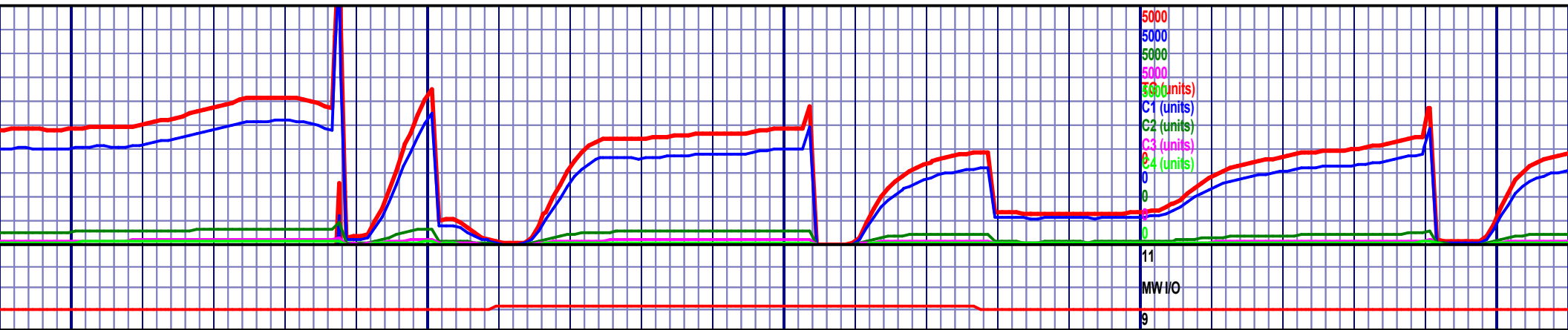
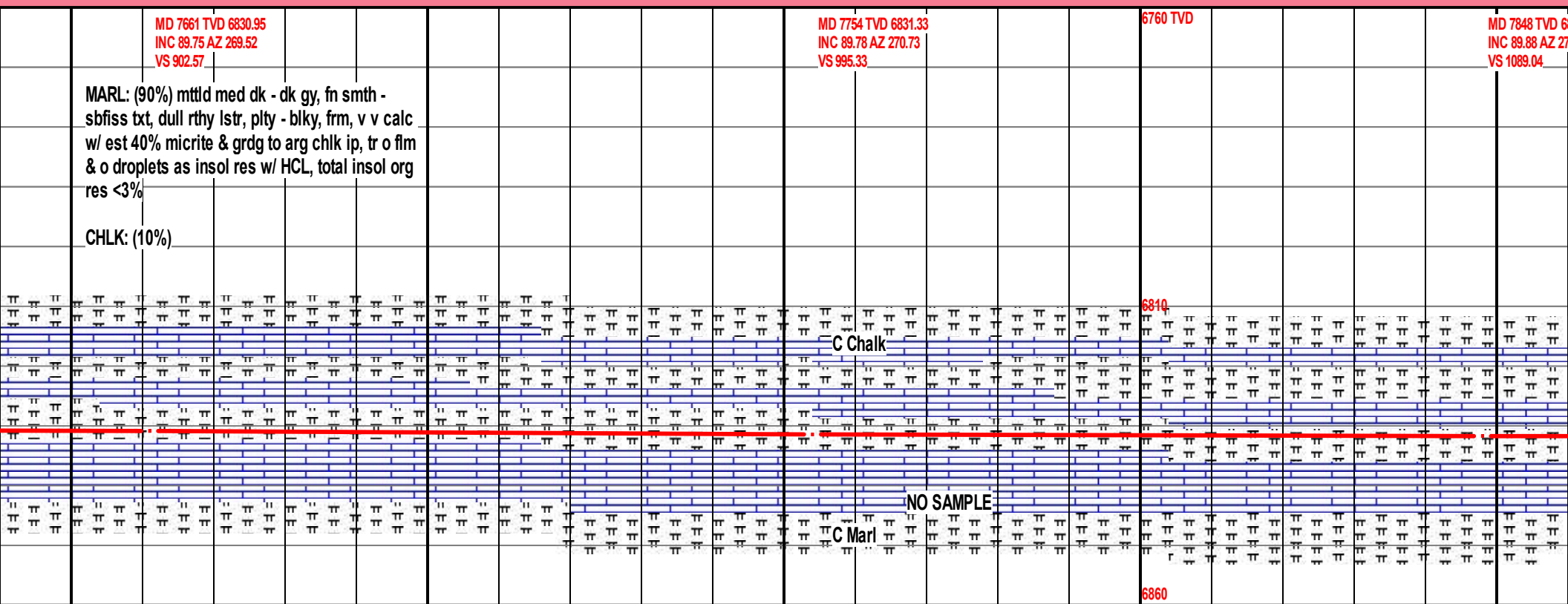
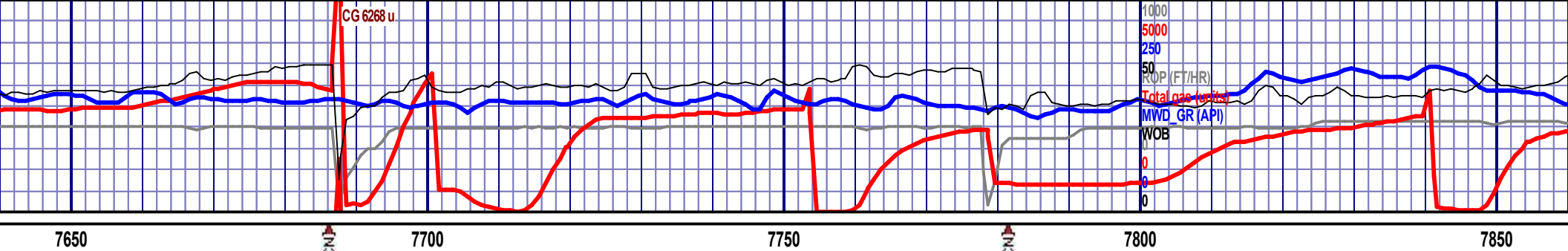
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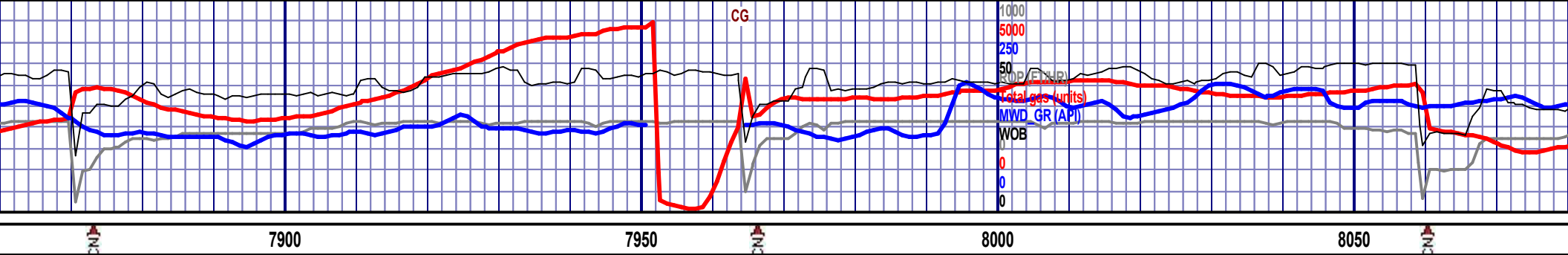


5000
5000
5000
5000
5000
C1 (units)
C2 (units)
C3 (units)
C4 (units)

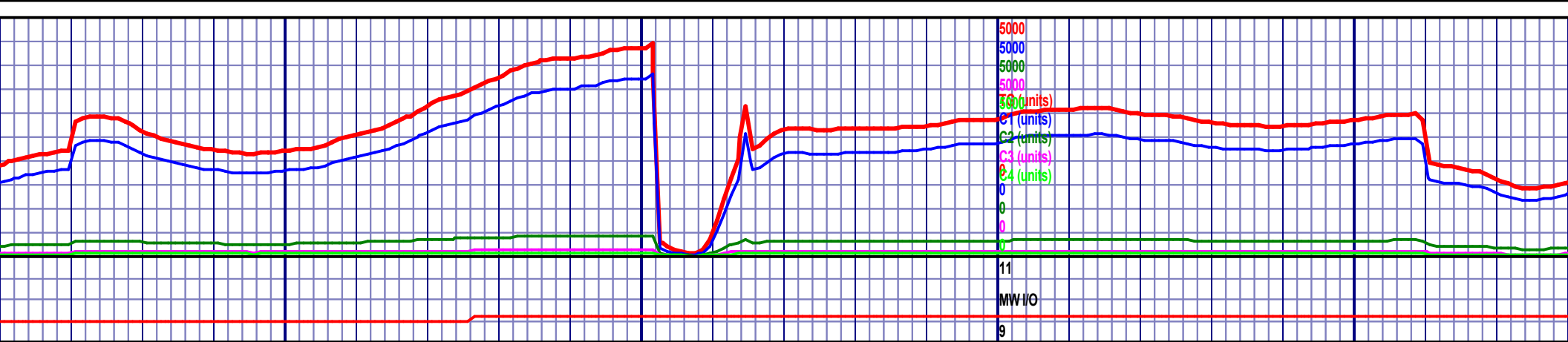
MW/O

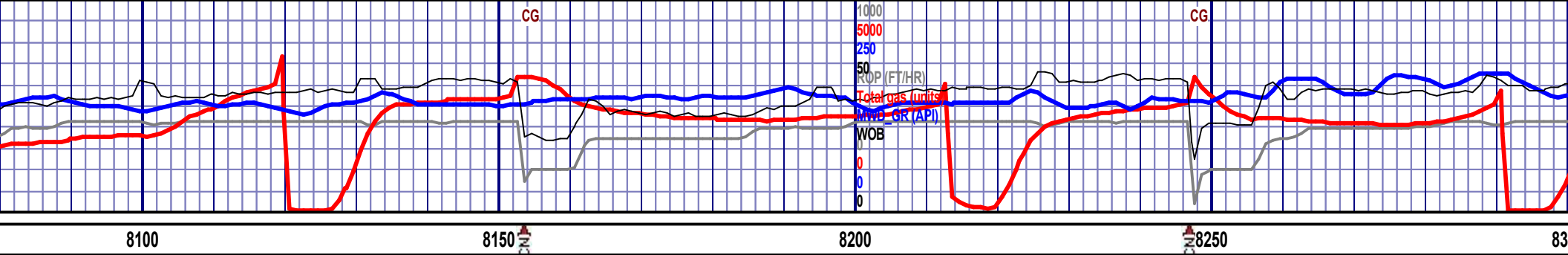
9



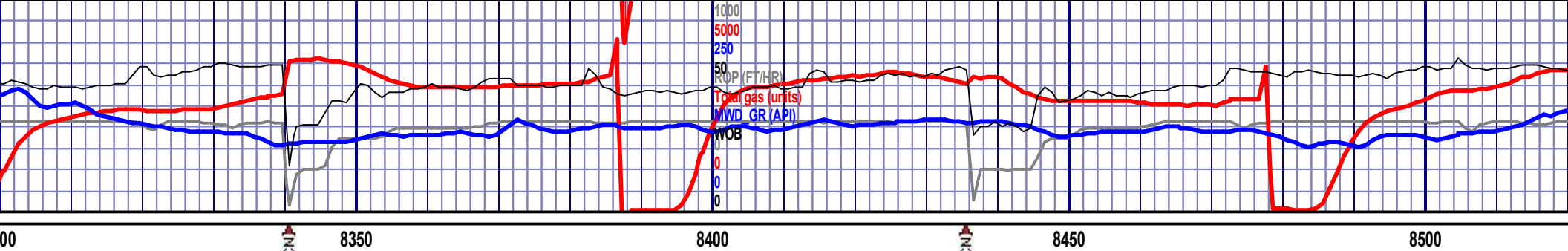


<p>831.61 0.43</p>	<p>MD 7941 TVD 6831.65 INC 90.06 AZ 270.78 VS 1181.74</p> <p>CARB CHLK: (70%) mttld med k - med - med lt gy, chlky txt, chnky - blk, frm - mod hd, pred cln - arg chlk ip w/ est 30% cly mtx, tr iridesc o flm, tr fitg o droplets, tr fitg brn gn org fib mtrl (prob algae), all org mtrl <5%, infer chlk por</p> <p>MARL: (30%)</p>	<p>6760 TVD</p> <p>MARL: (80%) mttld med dk - dk gy - spttd wht ip, fn smth - sbfiss txt, dull rthy lstr, plty - blk, frm, v v calc w/ est 40% micrite & grd to arg chlk ip, tr spttd wht w/ cocolith foss, tr o flm & o droplets as insol res w/ HCL, total insol org res <3%</p> <p>CHLK: (20%)</p>	<p>MD 8035 TVD 6831.81 INC 89.75 AZ 270.64 VS 1181.74</p>	
<p>NO SAMPLE</p>	<p>C Chalk</p> <p>C Marl</p>	<p>C Chalk</p> <p>C Marl</p>	<p>6810</p> <p>6850</p>	





MD 8128 TVD 6832.11 INC 89.88 AZ 270.03 VS 1368.16										6760 TVD										MD 8223 TVD 6832.26 INC 89.94 AZ 270.49 VS 1462.9									
MARL: (80%) mttld med dk - dk gy - spttd wht ip, fn smth - sbfiss txt, dull rthy lstr, pty - blk, frm, v v calc w/ est 40% micrite & grdg to arg chlk ip, tr spttd wht w/ cocolith foss, tr o flm & o droplets as insol res w/ HCL, total insol org res <3%										MARL: (90%) dk gy, fn smth - sbfiss txt, dull rthy lstr, pred pty - blk, frm, v v calc w/ est 40% micrite & grdg to arg chlk ip, tr o flm & o droplets as insol res w/ HCL, total insol org res <3%																			
CHLK: (20%)										CHLK: (10%)																			
										6810																			
																				C Chalk									



MD 8315 TVD 6832.38
INC 89.91 AZ 269.54
VS 1554.67

CARB CHLK: (70%) mttld med k - med - med lt gy,
chlky txt, chnky - blkly, frm - mod hd, pred cln - arg
chlk ip w/ est 30% cly mtbx, tr iridesc o flm, tr fltg o
droplets, tr fltg brn gn org fib mtrl (prob algae), all
org mtrl <5%, infer chlk por

MARL: (30%)

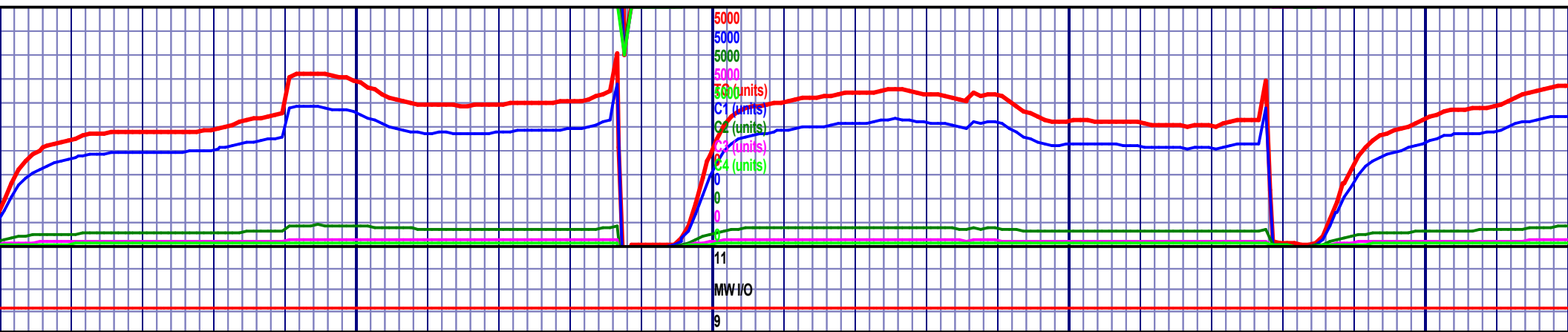
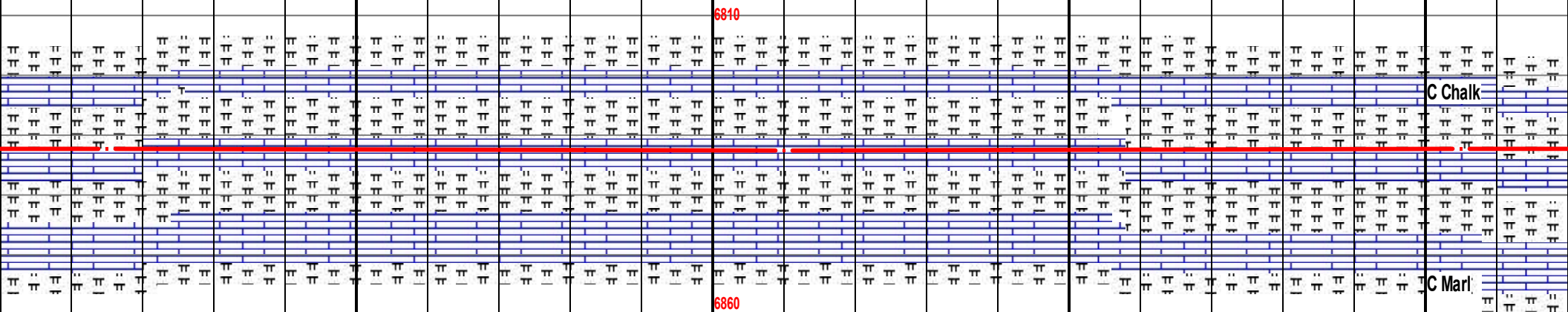
6760 TVD

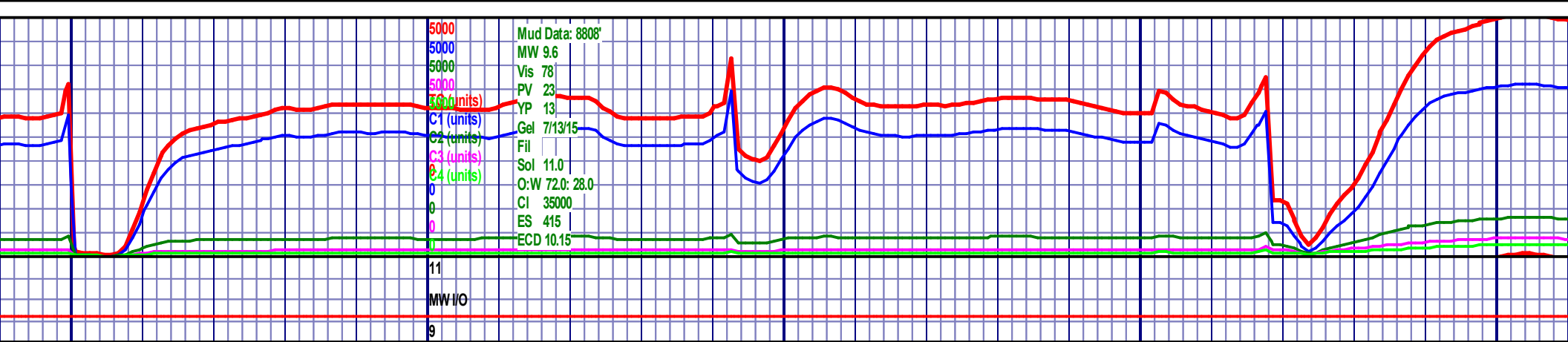
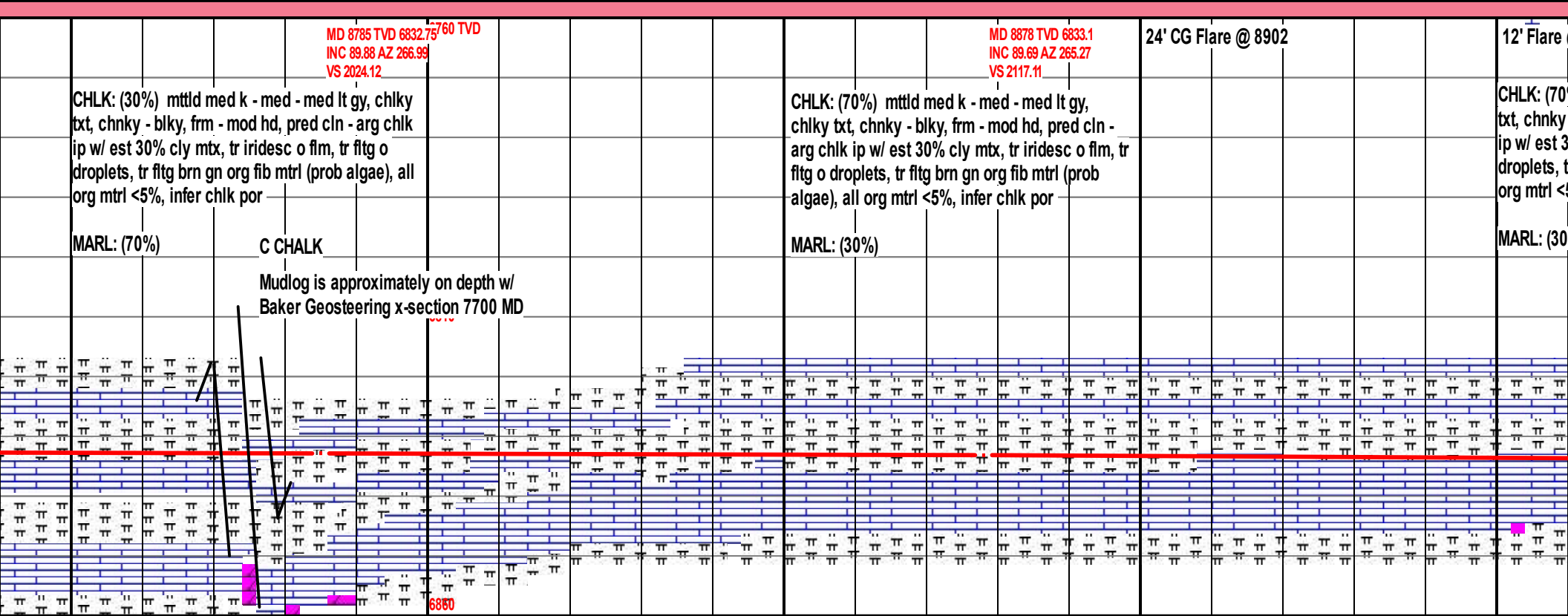
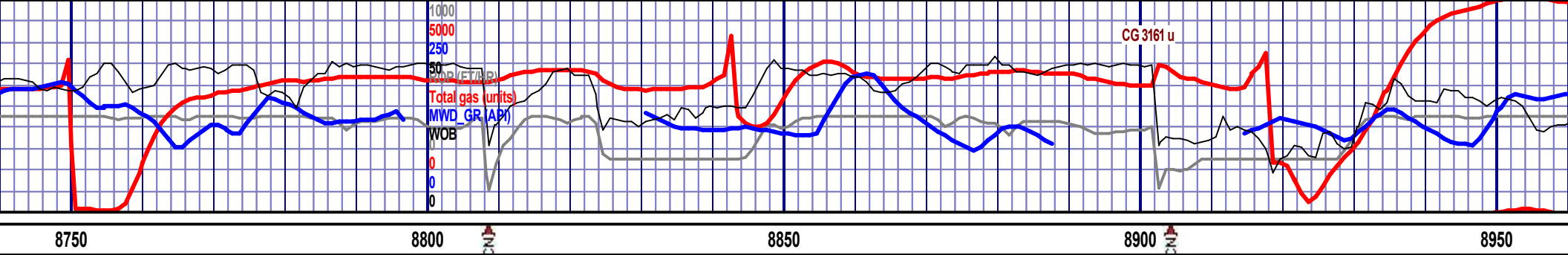
MD 8410 TVD 6832.43
INC 90.03 AZ 268.72
VS 1649.53

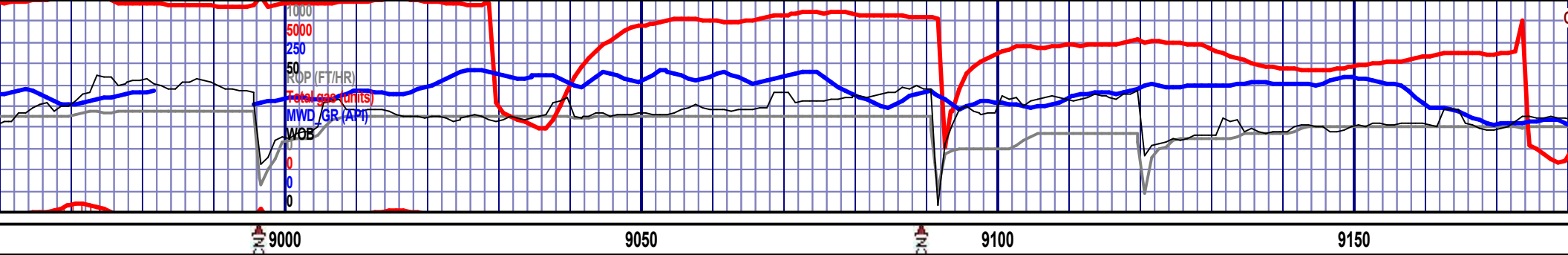
MD 8505 TVD 6832.38
INC 90.03 AZ 269.6
VS 1744.39

MARL: (70%) dk gy, f
lstr, pred ply - blkly,
micrite & grgd to arg
as insol res w/ HCL

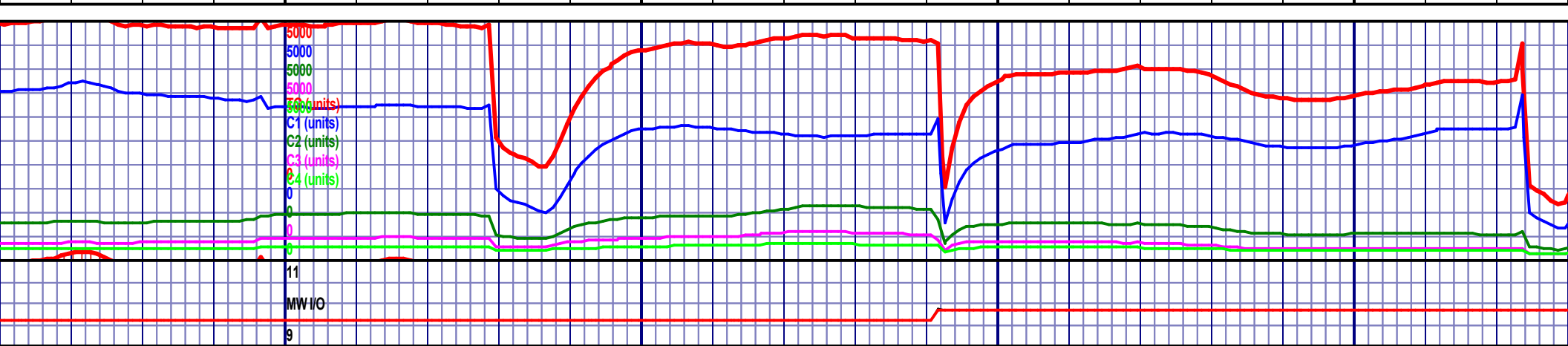
CHLK: (30%)

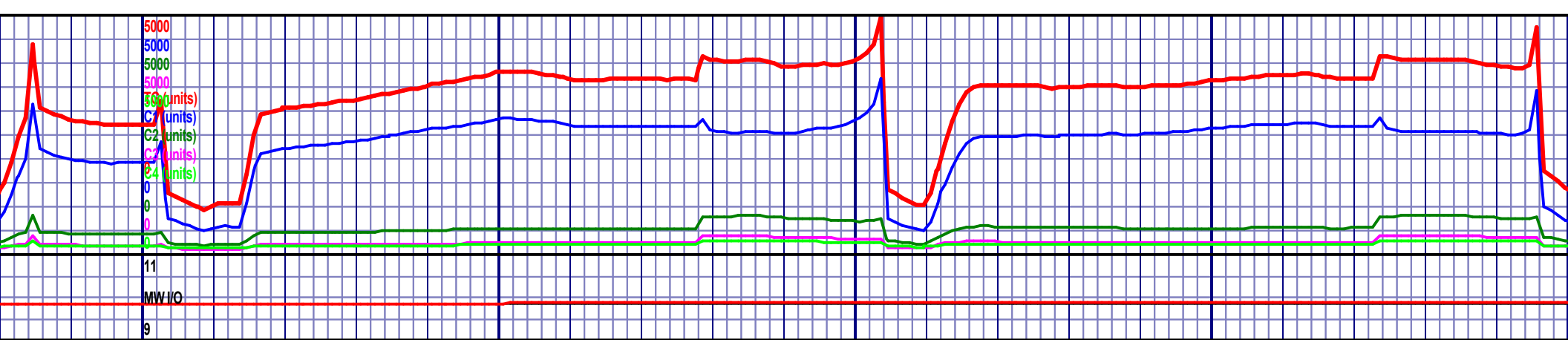
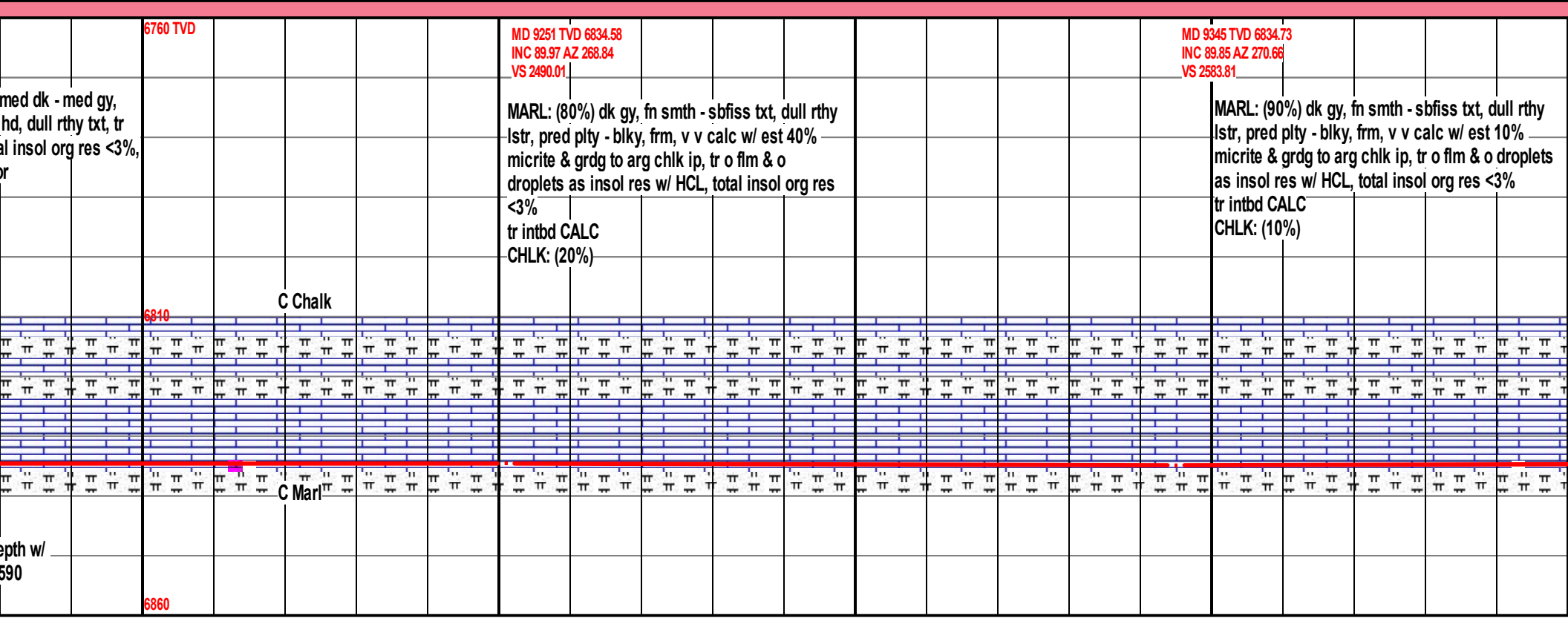
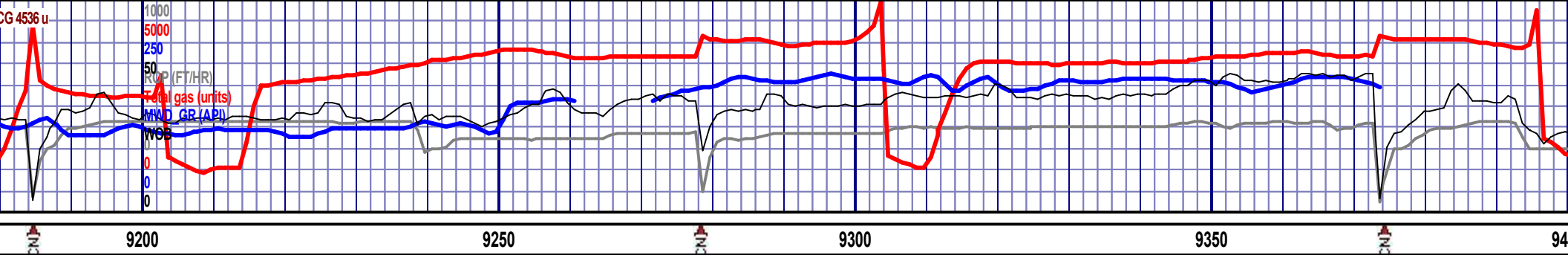


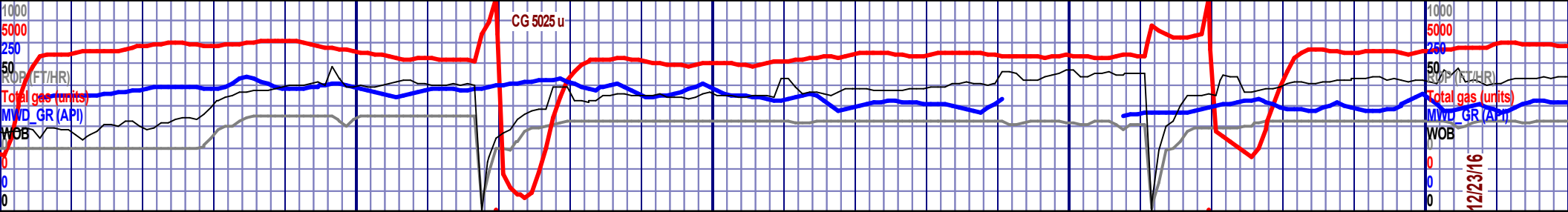




<p>@ 8952' MD 8971 TVD 6833.62 INC 89.66 AZ 265.84 VS 2210.11</p> <p>(%) mttld med k - med - med lt gy, chiky - blk, frm - mod hd, pred cln - arg chlk 0% cly mtx, tr iridesc o flm, tr fltg o r fltg brn gn org fib mtrl (prob algae), all 5%, infer chlk por</p>	<p>6760 TVD</p> <p>12' Flare</p>	<p>MD 9065 TVD 6834.16 INC 89.69 AZ 267.01 VS 2304.1</p> <p>Shut in well and Circulate Bottoms up at 9091' small 10 bbl gain, CO gas @ 60 SPM, gas 5530 u while CO gas, Mud Up 9.9, 9.9 MW Killed Well</p> <p>MARL: (70%) dk gy, fn smth - sbfiss txt, dull rthy lstr, pred pty - blk, frm, v v calc w/ est 20% micrite & grdg to arg chlk ip, tr o flm & o droplets as insol res w/ HCL, total insol org res <3% tr intbd CALC CHLK: (30%)</p>	<p>30' Flare @ Btms Up</p> <p>Resume drilling @ 21:31 after adjusting mud to 9.9/9.850</p>	<p>MD 9157 TVD 6834.48 INC 89.91 AZ 267.57 VS 2396.08</p> <p>ARG CARB CHLK: (80%) mttld chiky txt, blk, frm - mod iridesc o flm, tr o droplets, tota lt brngn uni o stn, infer chlk po</p>
<p>(%)</p>	<p>6840</p>	<p>CHLK: (20%)</p>		
<p>Mudlog is approximately on de SYNERGY Geosteering file 115 MD_2pm_12.23.16</p>	<p>6860</p>			

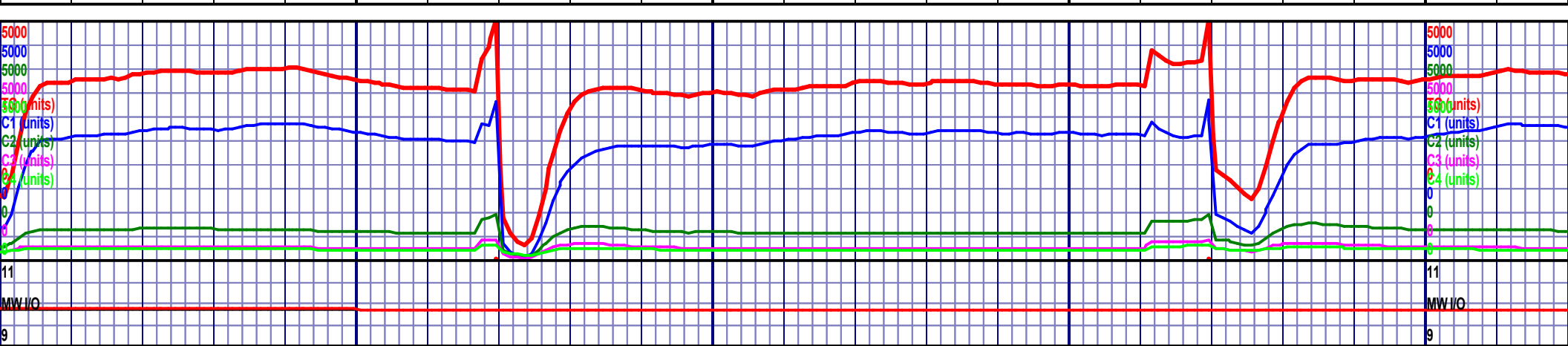


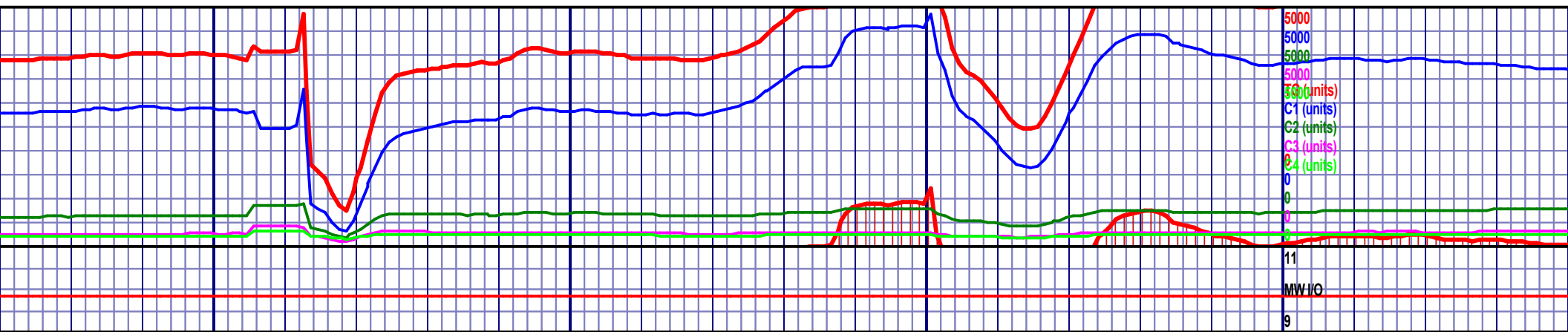
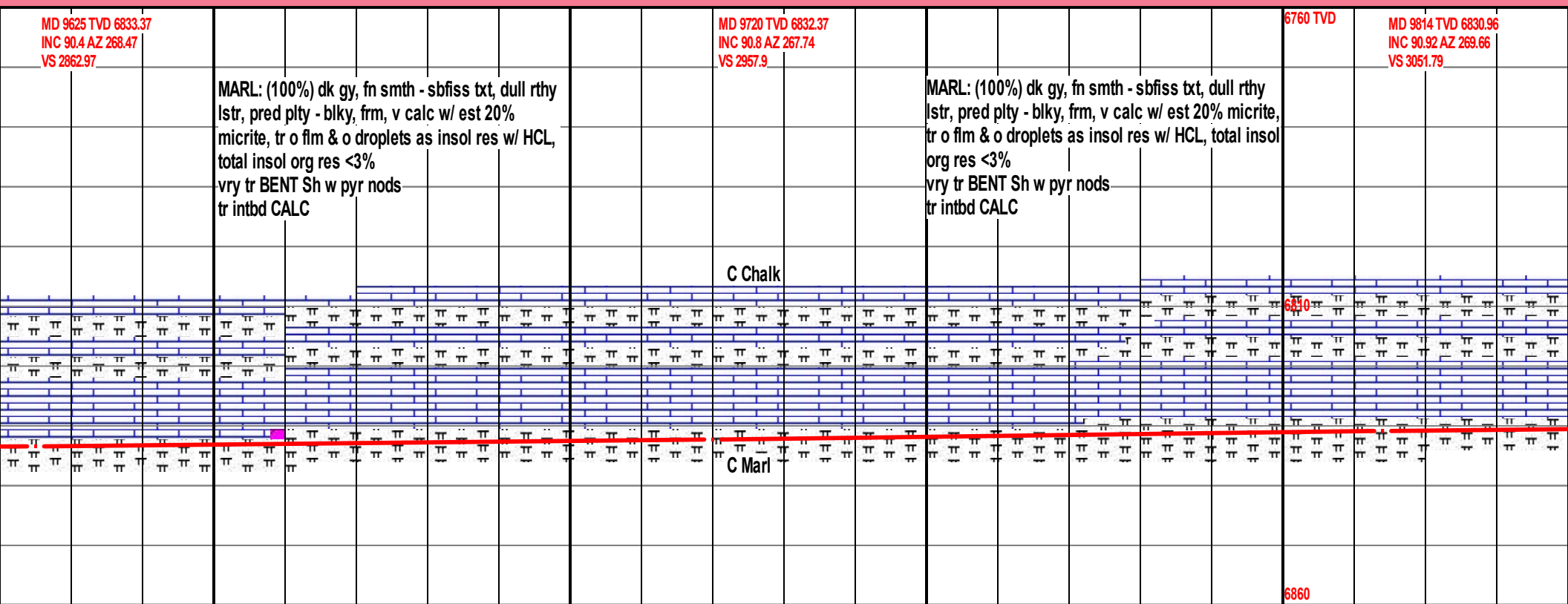
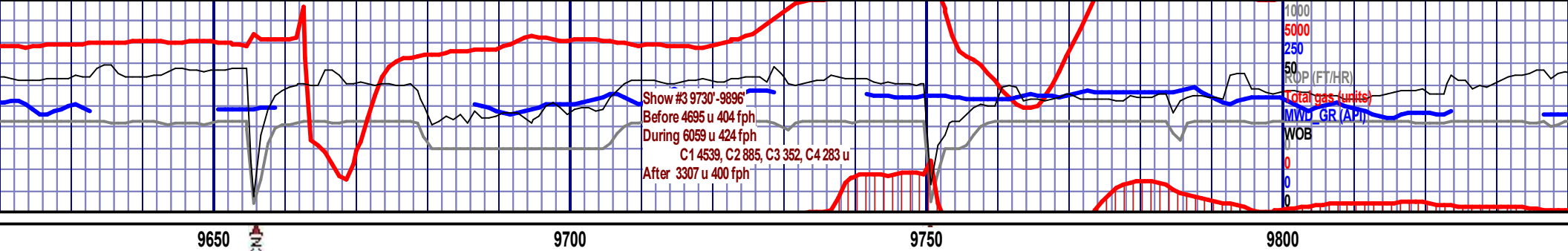


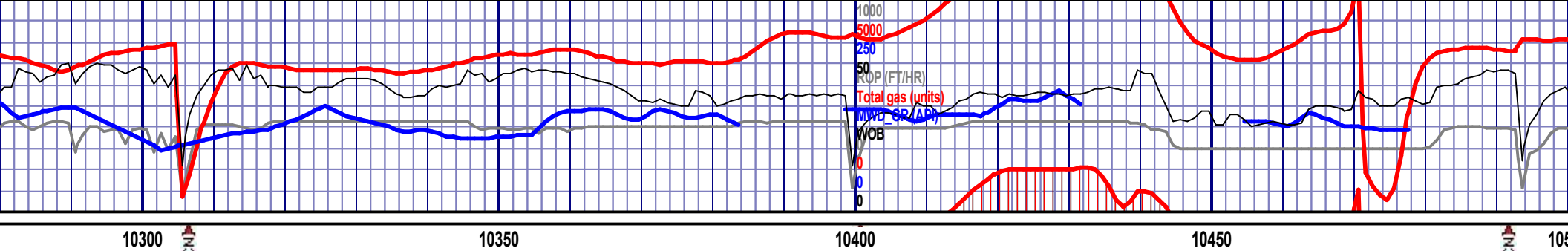


00 9450 9500 9550 9600

6760 TVD	MD 9439 TVD 6834.47 INC 90.46 AZ 270.94 VS 2677.48										MD 9532 TVD 6833.89 INC 90.25 AZ 270.61 VS 2770.16										6760 TVD				
MARL: (100%) dk gy, fn smth - sbfiss txt, dull rthy lstr, pred pty - blk, frm, v calc w/ est 20% micrite, tr o flm & o droplets as insol res w/ HCL, total insol org res <3% vry tr BENT Sh w pyr nods tr intbd CALC												MARL: (100%) dk gy, fn smth - sbfiss txt, dull rthy lstr, pred pty - blk, frm, v calc w/ est 20% micrite, tr o flm & o droplets as insol res w/ HCL, total insol org res <3% vry tr BENT Sh w pyr nods tr intbd CALC													
6840																									6840

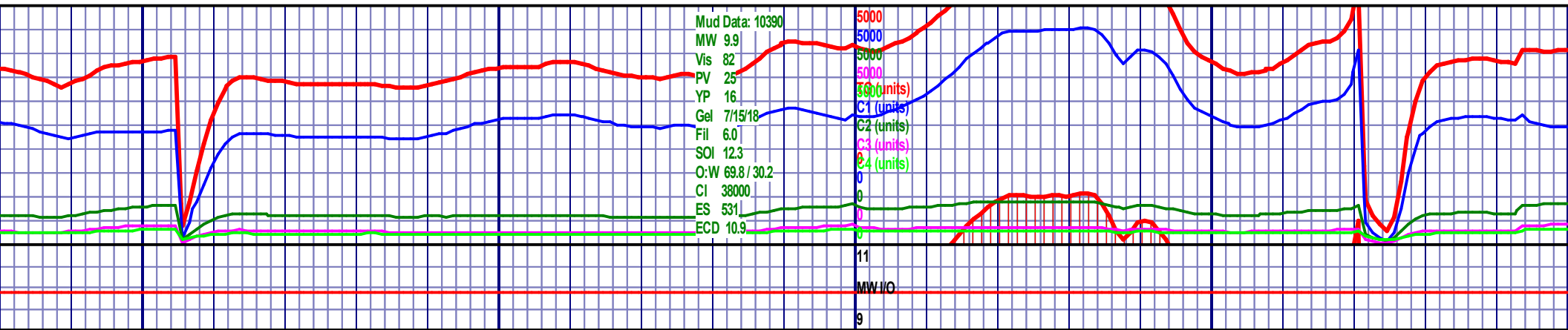


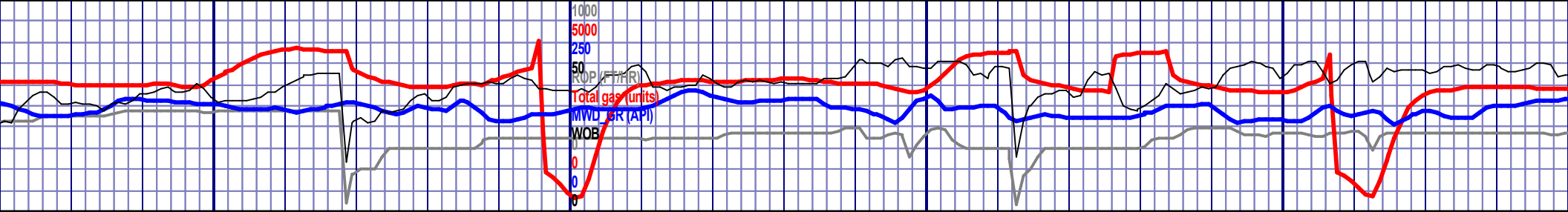




<p>MD 10281 TVD 6824.61 INC 90.59 AZ 273.38</p> <p>med - med lt gy, chlky d, pred cln - arg chlk esc o flm, tr fltg o mtrl (prob algae), all</p>	<p>MD 10374 TVD 6823.44 INC 90.86 AZ 273.56 VS 3608.66</p> <p>CHLK: (70%) mttld med k - med - med lt gy, chlky txt, chnky - blk, frm - mod hd, pred cln - arg chlk ip w/ est 30% cly mtx, tr iridesc o flm, tr fltg o droplets, tr fltg brn gn org fib mtrl (prob algae), all org mtrl <5%, infer chlk por abn fib CALC frag abn BENT SH w pyr nods</p> <p>MARL: (30%)</p>	<p>6760 TVD</p> <p>CHLK: (70%) mttld med k - med - med lt gy, chlky txt, chnky - blk, frm - mod hd, pred cln - arg chlk ip w/ est 30% cly mtx, tr iridesc o flm, tr fltg o droplets, tr fltg brn gn org fib mtrl (prob algae), all org mtrl <5%, infer chlk por</p> <p>MARL: (30%)</p>	<p>MD 10467 TVD 6822.04 INC 90.86 AZ 269.74 VS 3701.18</p>
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Mudlog is on depth w/ Baker Hughes
Geosteering x-section, 10374, 5:00am,
12.23.16





MD 10746 TVD 6818.87
INC 89.35 AZ 268.66
VS 3979.86

MARL: (80%) dk gy, vf smth - sb fiss txt, dull rthy
lstr, blkly - tab - plty, frm, v v calc w/ est. 30-40%
micrite, tr iridesc o flm, sb carb

CARB CHLK: (20%)

C Chalk

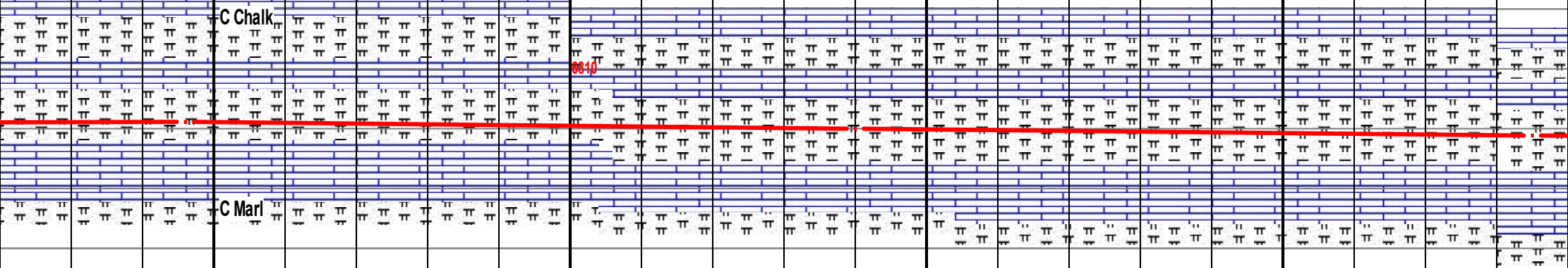
6760 TVD

MD 10840 TVD 6819.96
INC 89.32 AZ 269.46
VS 4073.72

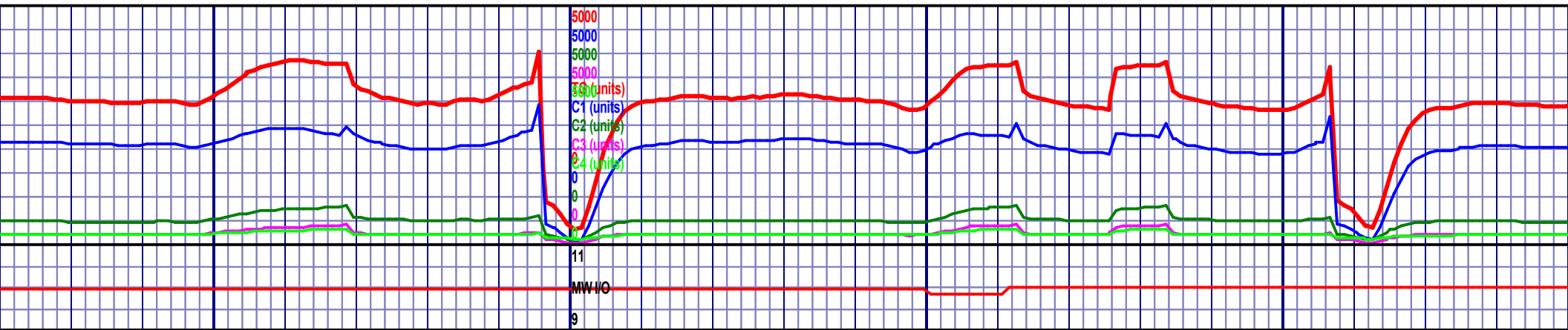
MARL: (80%) dk gy, vf smth - sb fiss txt, dull rthy
lstr, blkly - tab - plty, frm, v v calc w/ est. 30-40%
micrite, tr iridesc o flm, sb carb

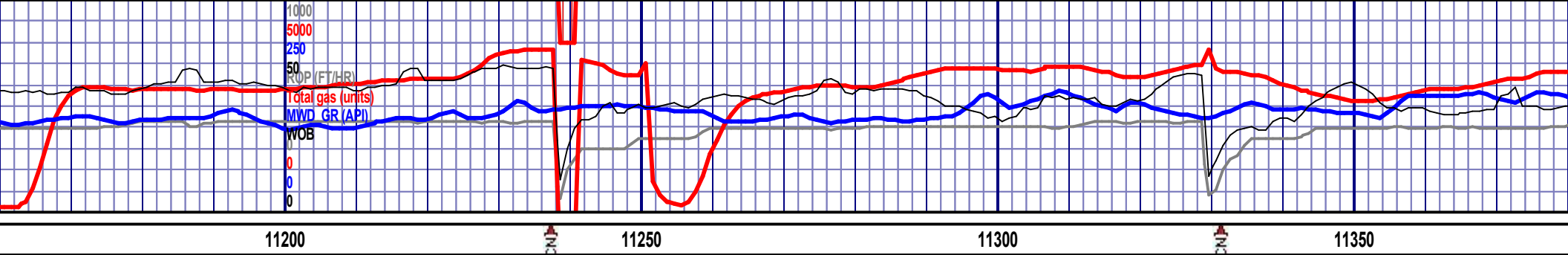
CARB CHLK: (20%)

MD 10840 TVD 6819.96
INC 89.32 AZ 269.46
VS 4073.72

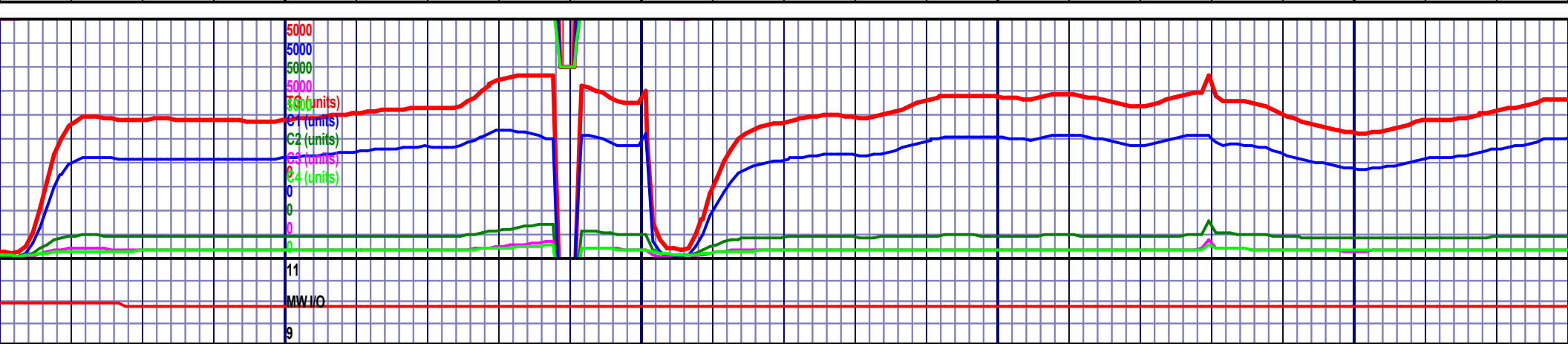


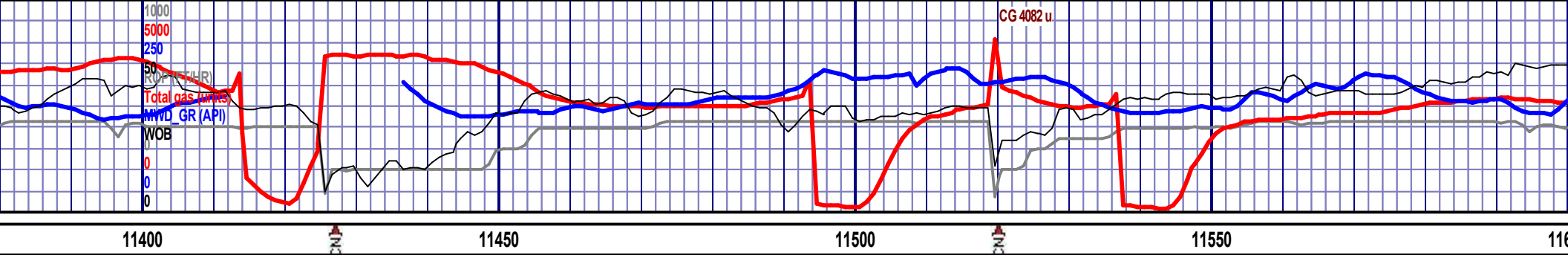
6860



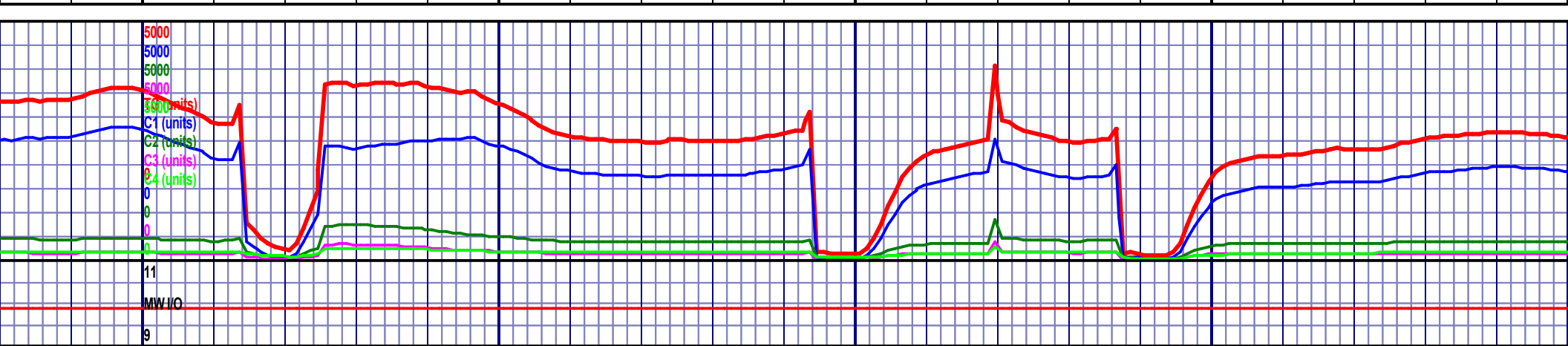


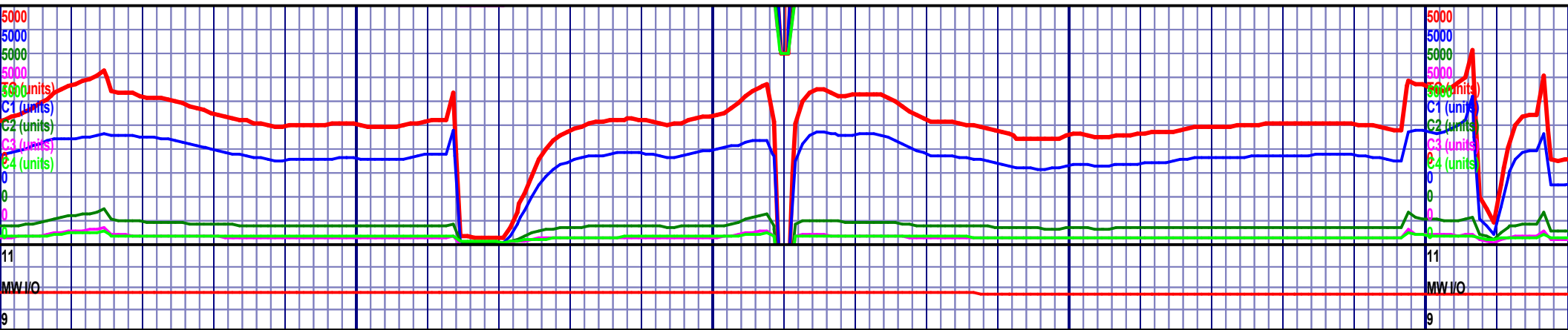
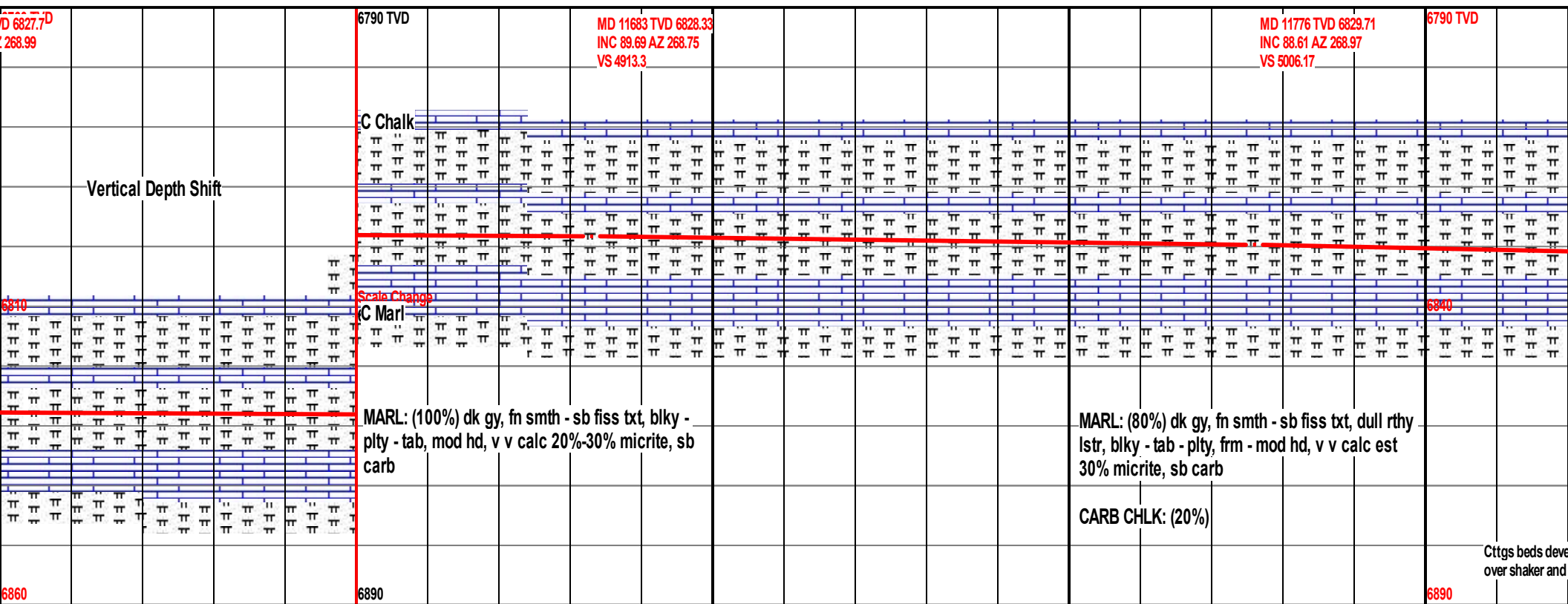
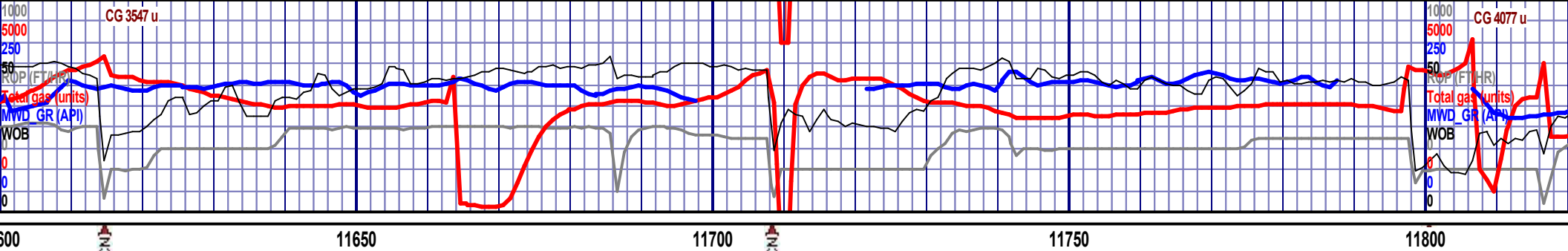
1145	6760 TVD	MD 11213 TVD 6823.8 INC 89.29 AZ 271.22 VS 4444.44		MD 11307 TVD 6824.89 INC 89.38 AZ 270.75 VS 4538.08	10' CG flare	
LK: (80%) mtlld med - med lt gy, chiky thy lstr, blk - tab, frm - mod hd, pred ip w/ 30-40% cly mtz, tr iridesc o flm, tr s, tr fltg gn brn mic strands of org mtrl gn brn uni o stn, infer chlk por						
CARB CHLK: (80%) mtlld med - med lt gy, chiky txt, dull rthy lstr, blk - tab, frm - mod hd, pred cln - arg ip w/ 30-40% cly mtz, tr iridesc o flm, tr o droplets, tr fltg gn brn mic strands of org mtrl (algae), lt gn brn uni o stn, infer chlk por						
MARL: (20%)						
C Chalk						
C Marl						
MARL: (60%) dk gy, fn smth tx tab - blk, frm - mod hd, v v ca micrite, sb carb						
CARB CHLK: (40%)						

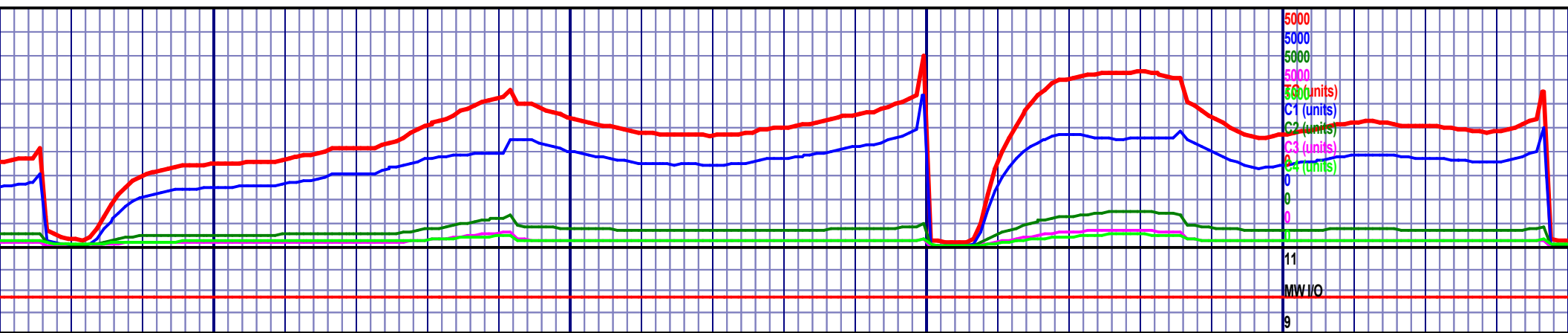
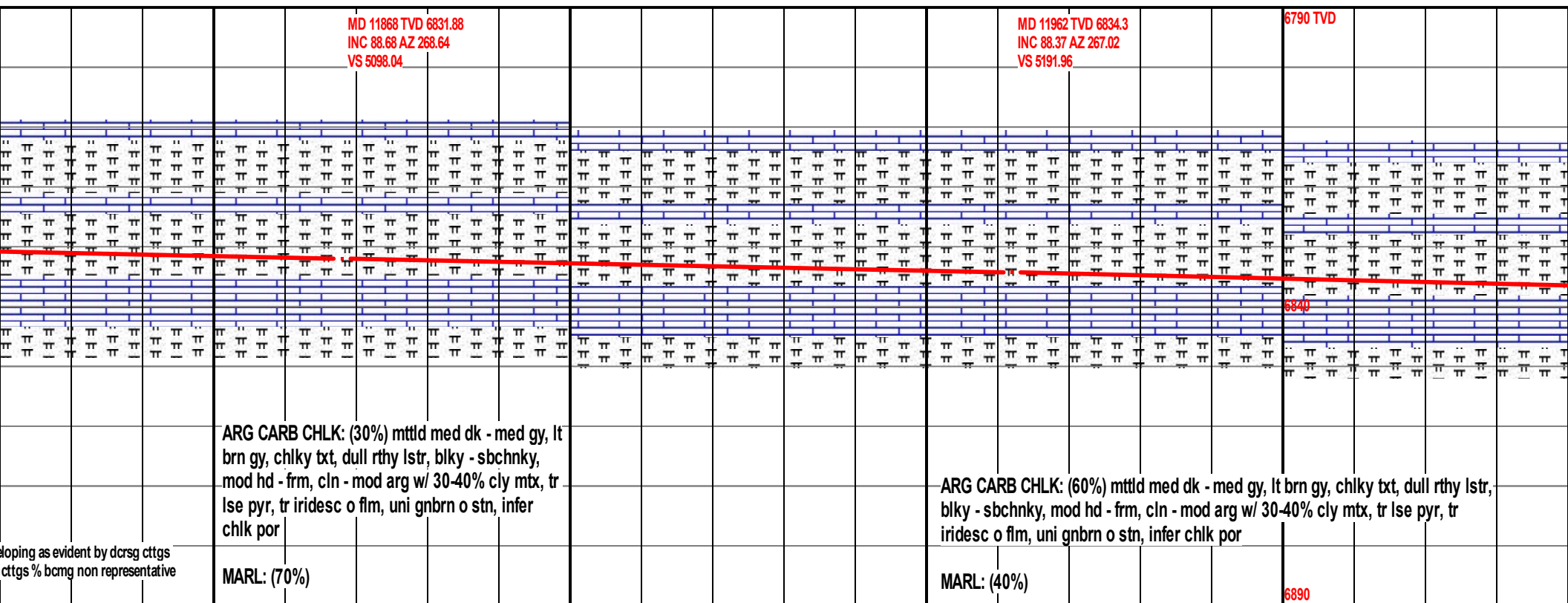
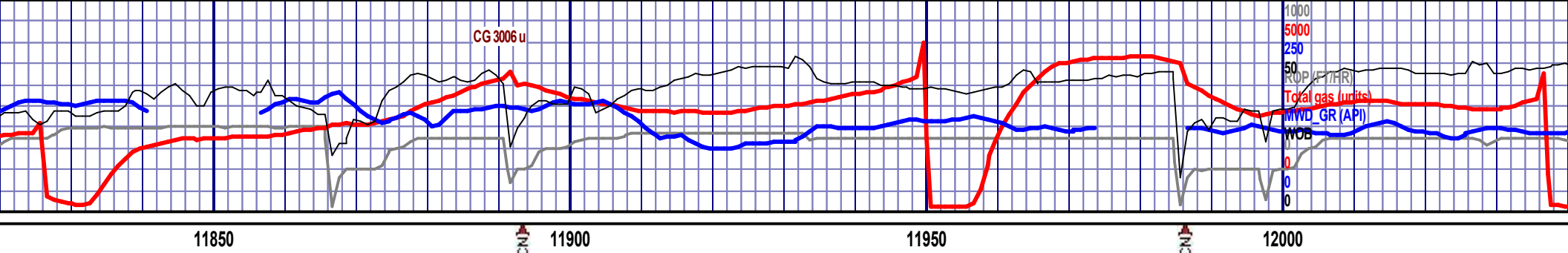


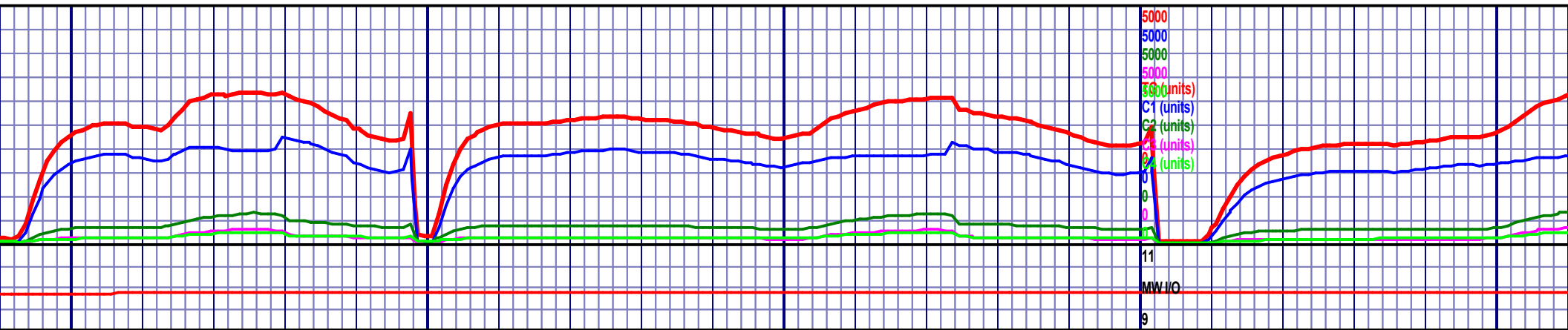
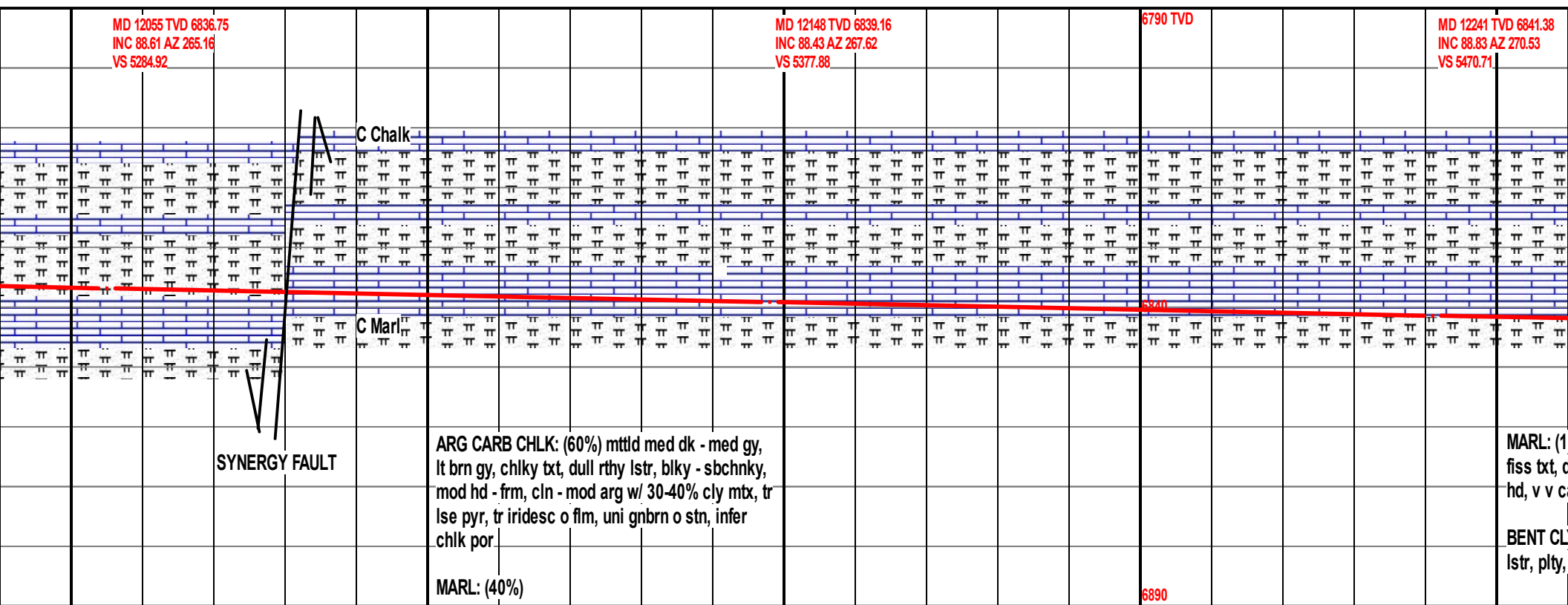
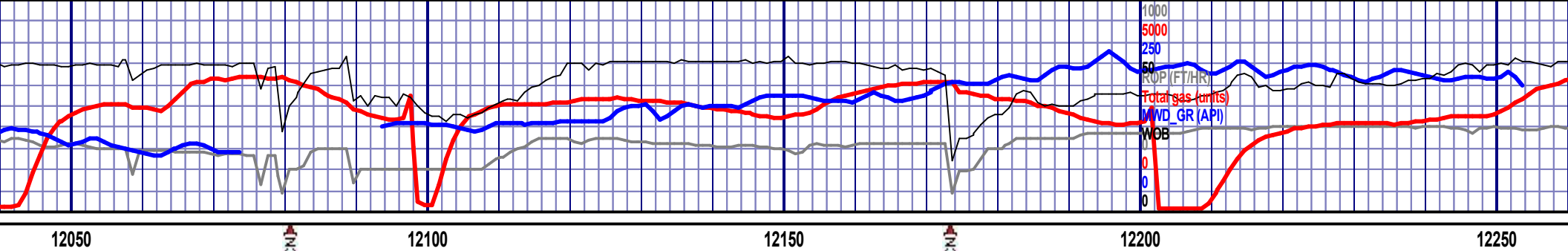


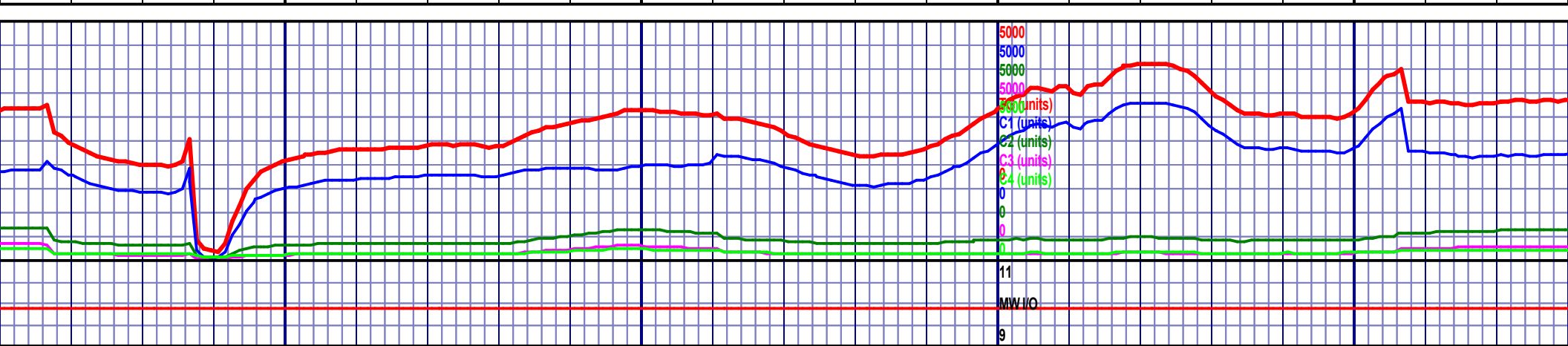
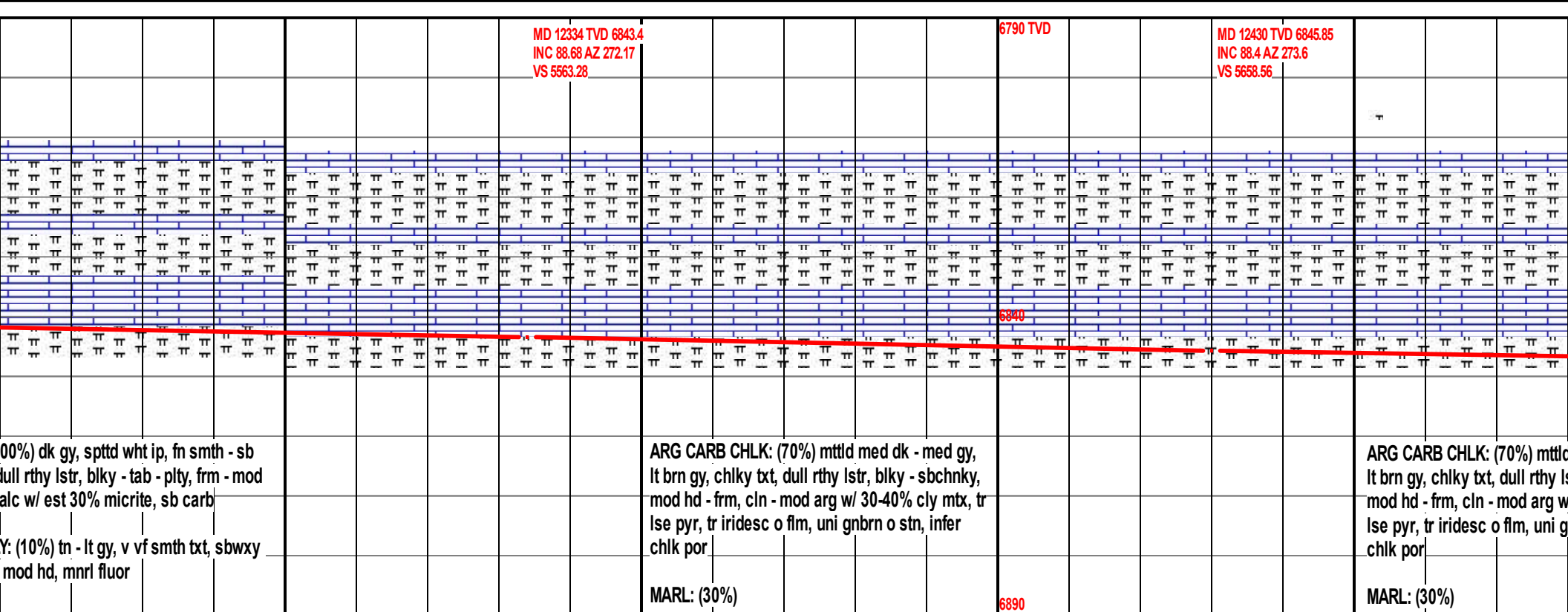
<p>MD 11402 TVD 6825.91 INC 89.38 AZ 269.68 VS 4632.82</p> <p>t - sb fiss txt, pty - alc w/ est 30%-40%</p>	<p>MD 11496 TVD 6826.87 INC 89.45 AZ 270.11 VS 4726.6</p> <p>MARL: (60%) dk gy, fn smth txt - sb fiss txt, pty - tab - blk, frm - mod hd, v v calc w/ est 30%-40% micrite, sb carb</p> <p>CARB CHLK: (40%)</p>	<p>MD 11590 TVD 6827.82 INC 89.54 AZ 270.11 VS 4820.41</p> <p>MARL: (100%) dk gy, fn smth - sb fiss txt, blk - pty - tab, mod hd, v v calc 20%-30% micrite, sb carb</p> <p>tr BENT CLY: tn, v vf smth txt, sbwxy lstr, pty, mod hd, pyrtc ip, mnrl fluor</p>
<p>6810</p> <p>6860</p>	<p>C Chalk</p> <p>C Marl</p>	<p>C Chalk</p> <p>C Marl</p>

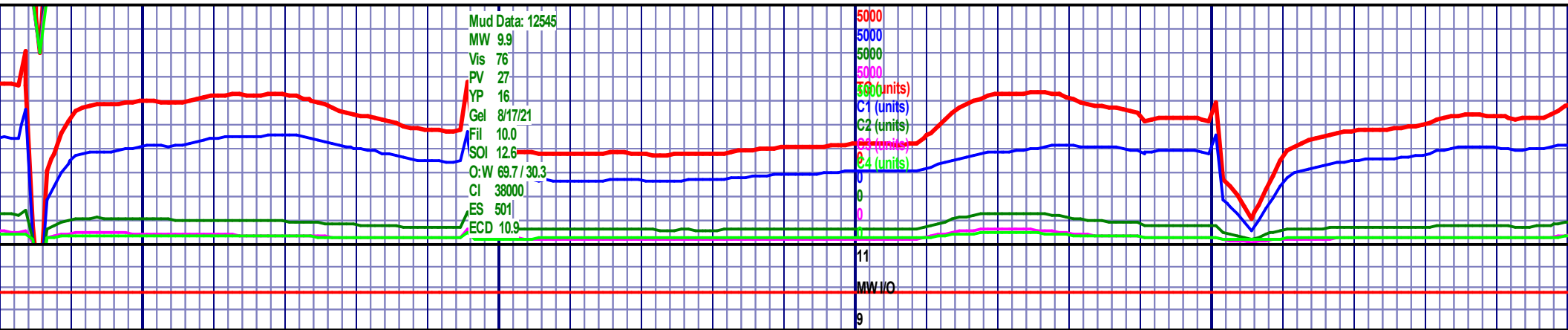
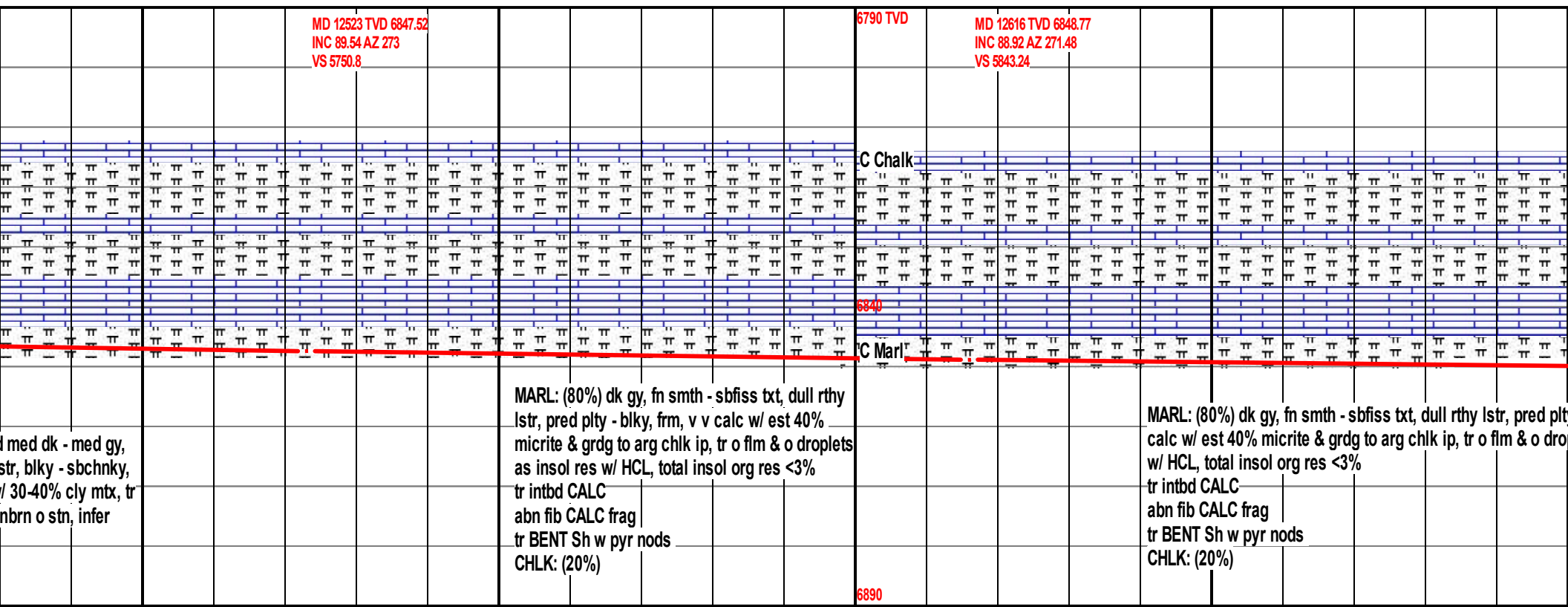
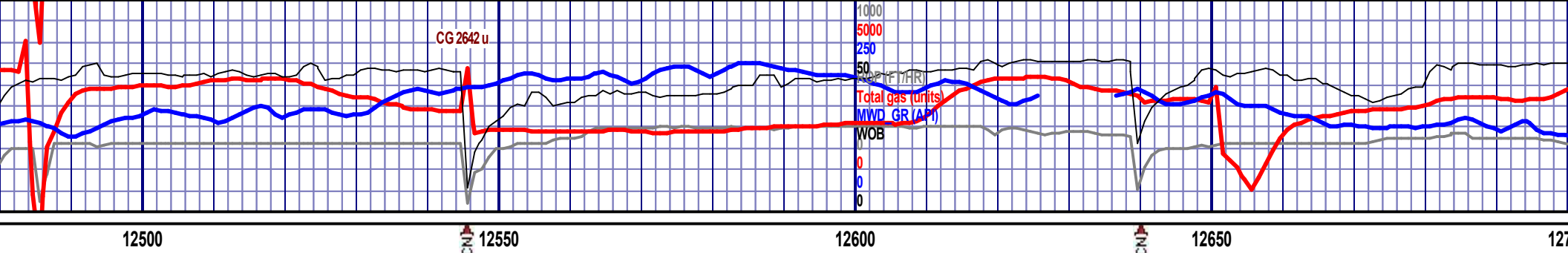


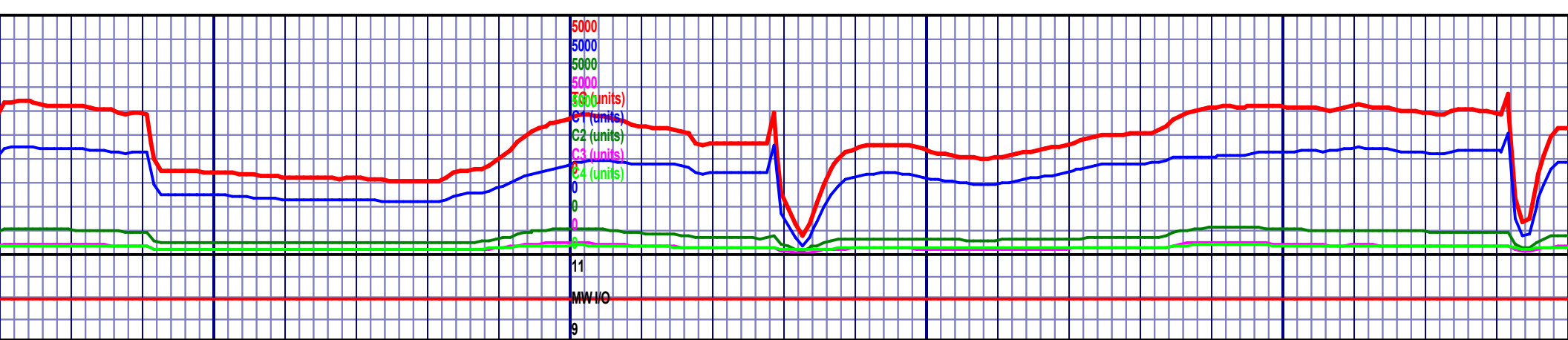
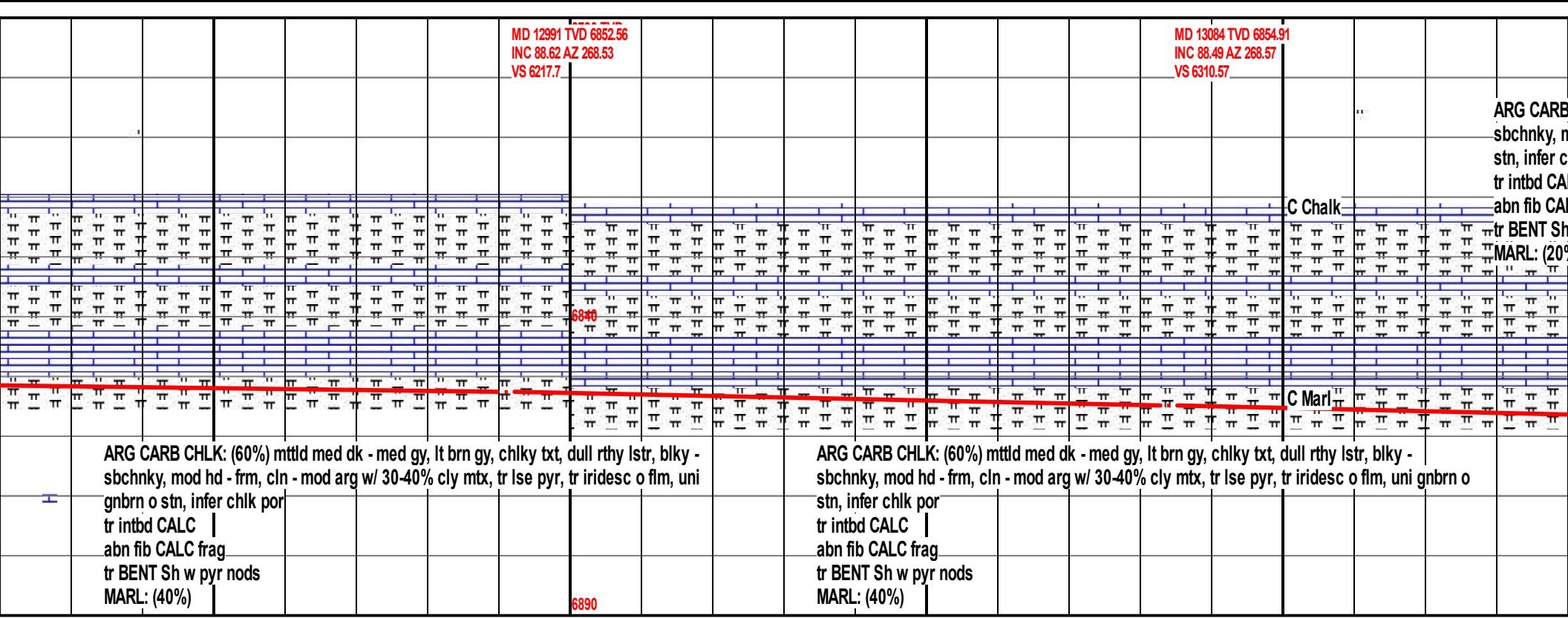
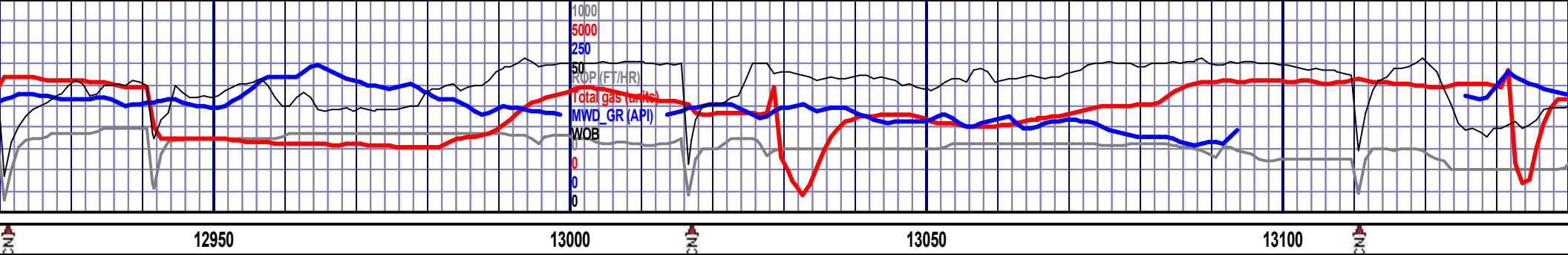


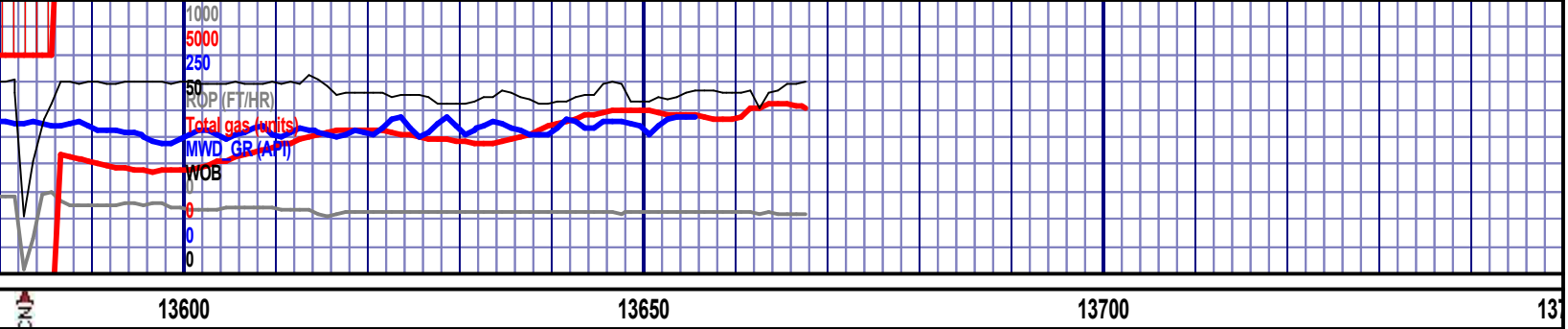












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