

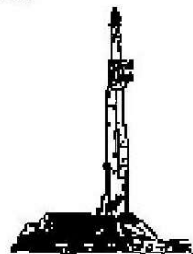
GOOLSBY BROTHERS
and associates, inc.

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: Bost Farm 8C-8-L
API: 051234769600
Location: Section 7, T5N, R66W, Weld County, CO.
License Number:
Spud Date: December 21, 2018
Surface Coordinates: SWNW T5N, R66W Sec 7, 1477' FNL & 939' FWL
LAT 40.417592 LONG -104.829013
Bottom Hole Coordinates: SENE T5N, R66W Sec. 8, 2137' FNL & 380' FEL
Ground Elevation (ft): 4,881'
Logged Interval (ft): 6,900' To: 17,780'
Formation: Pierre Shales/Sands, Sharon Springs, Niobrara, Ft. Hays, Codell (Target)
Type of Drilling Fluid: FW Surface, OBM Curve & Lateral

Region: Wattenberg
Drilling Completed: December 24, 2018

Printed by HorizontalLog 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: Andrew Krueger & Brian Spitzmiller
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' - 17,764' MD

Casing

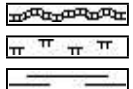
9 5/8" Surface Casing set @ 1,830' MD

5 1/2" Production Casing set @ 17,763' MD

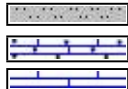
Comments

- 1) Drilling Contractor: Precision Drilling, Rig #462
Toolpusher: Cody Teeter, Joseph Credeur
- 2) Company Man: Steve Wilson, Buddy Davis
Lovell Young, John Myers
- 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

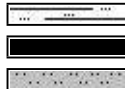
ROCK TYPES



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

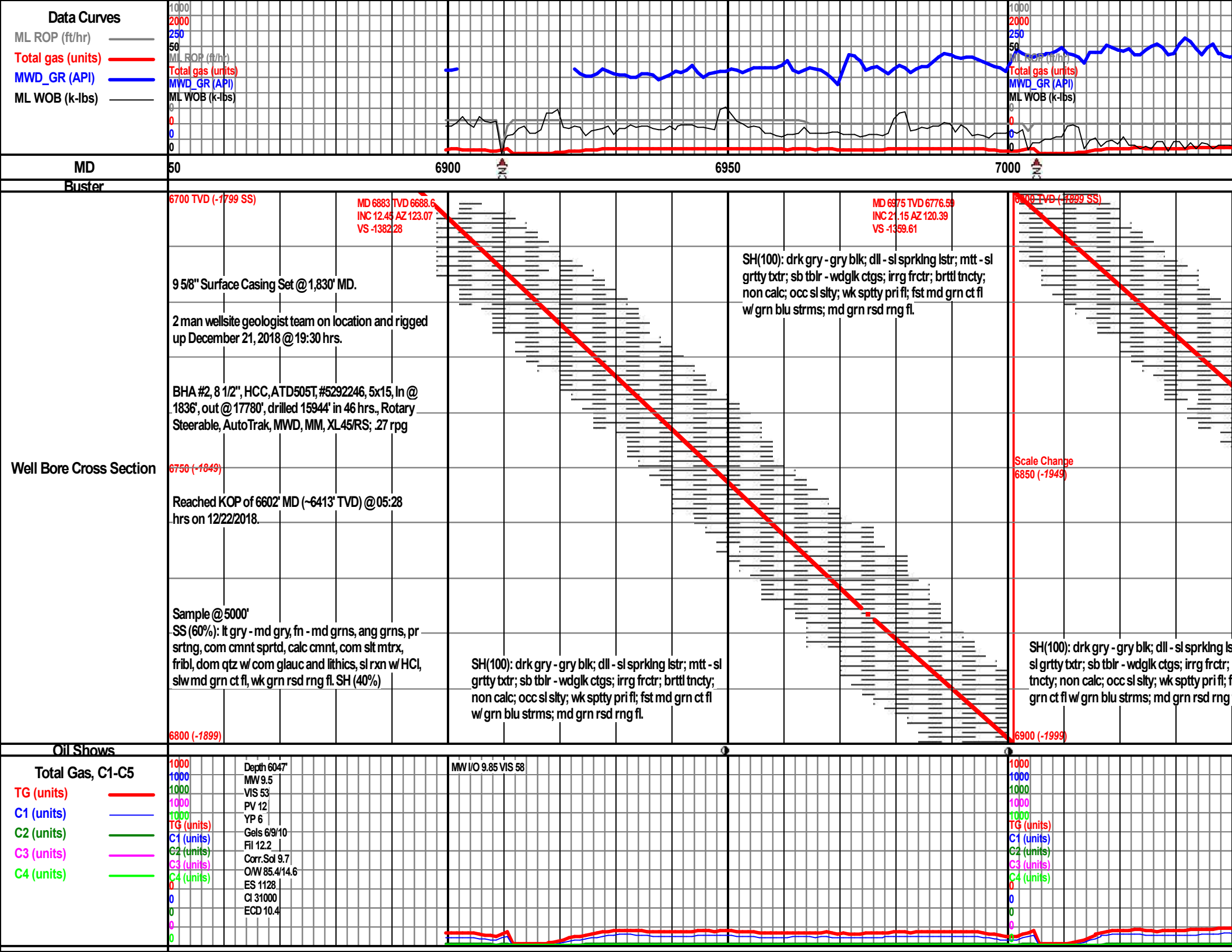
INTERVALS

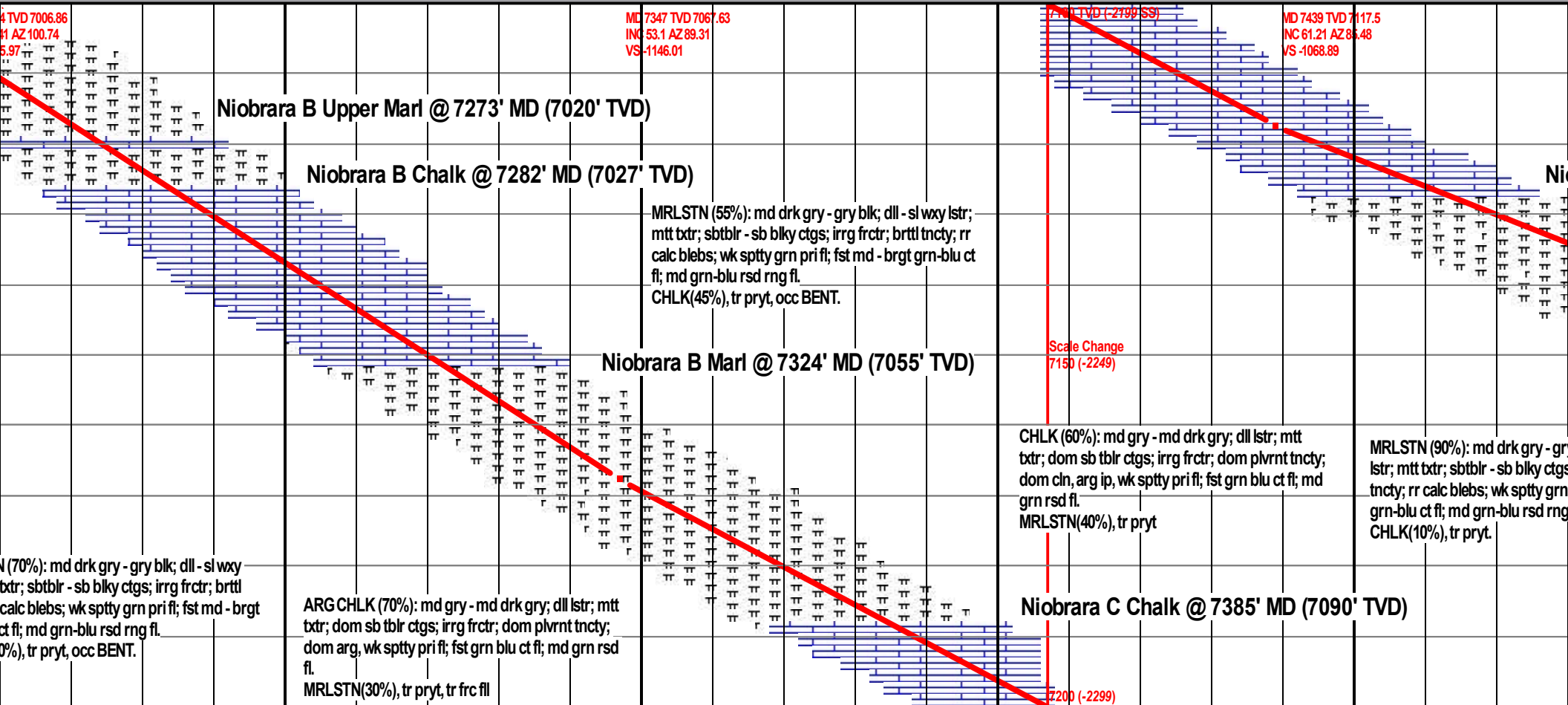
Core
 Dst

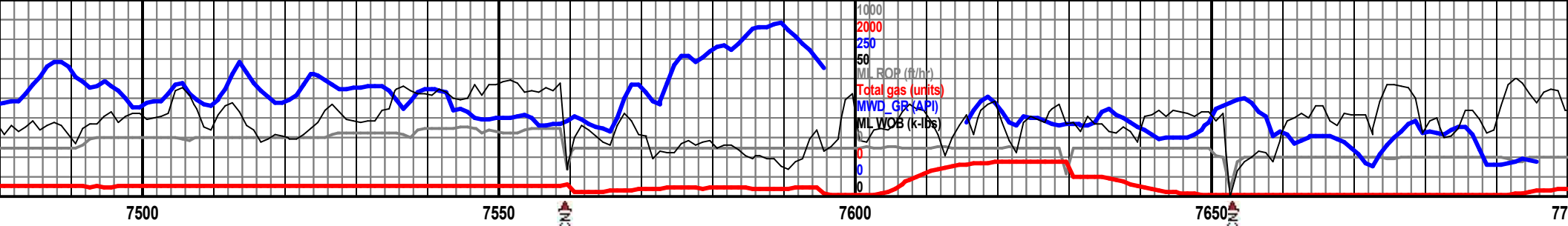
EVENTS

Casing shoe_hzl
 Trip_point_1
 Off bottom
 conn

Survey(mwd)
 Survey(red)
 bit







MD 7533 TVD 7155.7
INC 70.78 AZ 87.92
VS -983.27

7100 TVD (-2199 SS)

MD 7626 TVD 7180.28
INC 78.54 AZ 88.37
VS -983.7

obrara C Marl @ 7463' MD (7130' TVD)

MRLSTN (70%): md drk gry - gry blk; dll - sl wxy lstr;
mtt btr; sbtblr - sb blk cyctgs; irrg frctr; brtll tncy; rr
calc blebs; wk sppty grn pri fl; fst md - brgt grn-blu
ct fl; md grn-blu rsd rng fl.
CHLK(30%), tr pryt.

LS: (70%) lt crm-lt tan, v jggd-tblr cuttngs, sbconcdl
frac ptttn, crypxln-micrxdn, chn, hd, uni dim min fluor,
MRLST (30%): drk gryish blk, frm-sl hd,
sbptly-sbbly, rthy-sbwxy, occ grtty, mod fst grnish
yel blmng cut, mod thck grnish res rng

y blk; dll - sl wxy
s; irrg frctr; brtll
pri fl; fst md - brgt
fl.

K Marker @ 7573' MD (7167' TVD)

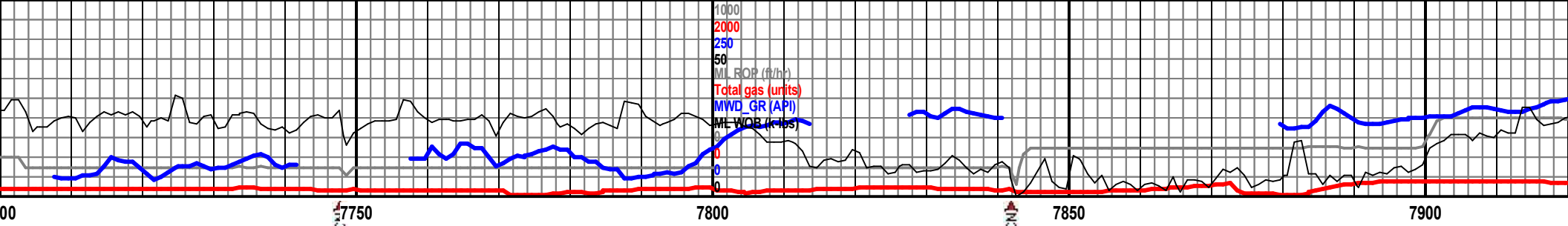
MRLSTN (90%): md drk gry - gry blk; dll - sl wxy lstr;
mtt btr; sbtblr - sb blk cyctgs; irrg frctr; brtll tncy; rr
calc blebs; wk sppty grn pri fl; fst md - brgt grn-blu ct
fl; md grn-blu rsd rng fl.
CHLK(10%), tr pryt.

MRLSTN (80%): md drk gry - gry blk; dll - sl wxy
lstr; mtt btr; sbtblr - sb blk cyctgs; irrg frctr; brtll
tncy; rr calc blebs; wk sppty grn pri fl; fst md -
brgt grn-blu ct fl; md grn-blu rsd rng fl.
CHLK(20%), tr pryt.

7200 (-2299)

MW I/O 9.85 VIS 58

1000
1000
1000
1000
1000
1000
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)



MD 7721 TVD 7192.44
INC 86.74 AZ 87.73
VS -799.62

7150 TVD (-2249 SS) MD 7814 TVD 7196.99
INC 87.66 AZ 85.58
VS -706.89

MD 7907 TVD 7200
INC 87.75 AZ 85.1
VS -614.27

LS: (90%) lt crm-lt tan, v jggd-tblr cuttngs, sbconcdl
frac pptrn, crypxln-micrxln, cln, hd, uni dim min
flur, MRLST (10%): drk gryish blk, frm-sl hd,
sbply-sbbilky, rthy-sbwxy, occ grtty, mod fst grnish
yel blmng cut, mod thck grnish res rng

Codeil @ 7802' MD (7196' TVD)

Scale Change
7200 (-2299)

Landed Curve Section @ 7737' MD (~7195' TVD) on
12/22/2018 @ 13:35 hrs

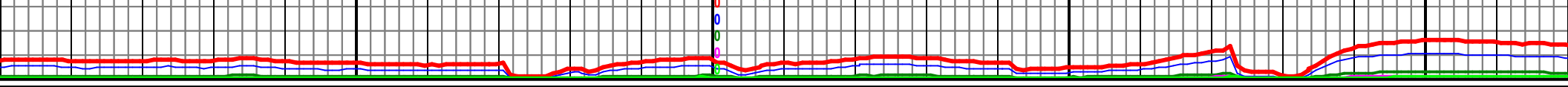
Ft. Hays @ 7688' MD (7190' TVD)

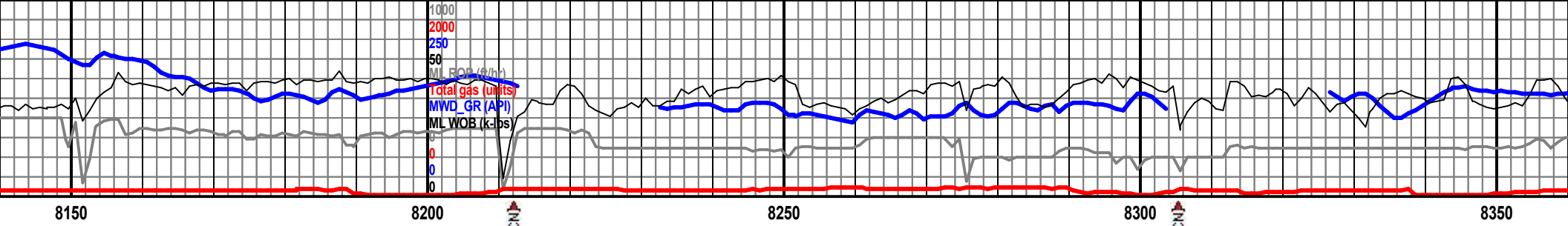
SS: (80%) med lght gry, vf-f grn, pred sbang, fr-gd
srtd, qtz aren, grn sprt w/occ mtrx sprt, abndt slt/clt
mtrx, frble-mod hd, est 10% ingrnl por, sppty wk grn
pri flur, nr evn stn, gd grn blu cuts, v gd mod-bri grn
res cld.
LS (20%), occ mod stn w/ Aliz. Red

7250 (-2349)

MW I/O 9.85 VIS 54

1000
1000
1000
1000
1000
1000
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)

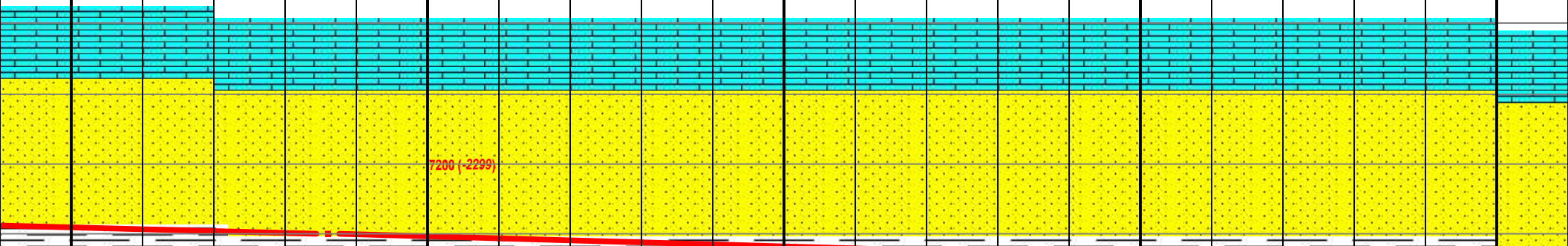




MD 8186 TVD 7209.31
INC 88.43 AZ 89.21
VS -336.02

MD 8150 TVD (-2249 SS)

MD 8279 TVD 7212.48
INC 88.28 AZ 88.24
VS -243.08



SS: (60%) med lght gry, sl brn, vf-f grn, pred
sbang-sbrnd, rr calc cmnt, fr-pr srted, qtz aren, mtrx
sprt, abndt slt/cly mtrx, frble-mod hd, est 10% ingrnl
por, sppty wk grn pri fluor, nr evn stn, gd mod fst
grnish blu cuts, mod bri grn res cld, rr pyr, SH:
(40%)

SS: (60%) med lght gry, sl brn, vf-f grn, pred
sbang-sbrnd, rr calc cmnt, fr-pr srted, qtz aren, mtrx
sprt, abndt slt/cly mtrx, frble-mod hd, est 10% ingrnl
por, sppty wk grn pri fluor, nr evn stn, gd mod fst
grnish blu cuts, mod bri grn res cld, rr pyr, SH:
(40%)

SH (60%)
grtty bdr
tncty; sl
ct fl; wk -
SS: (40%)

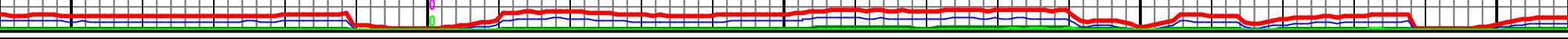
7200 (-2299)

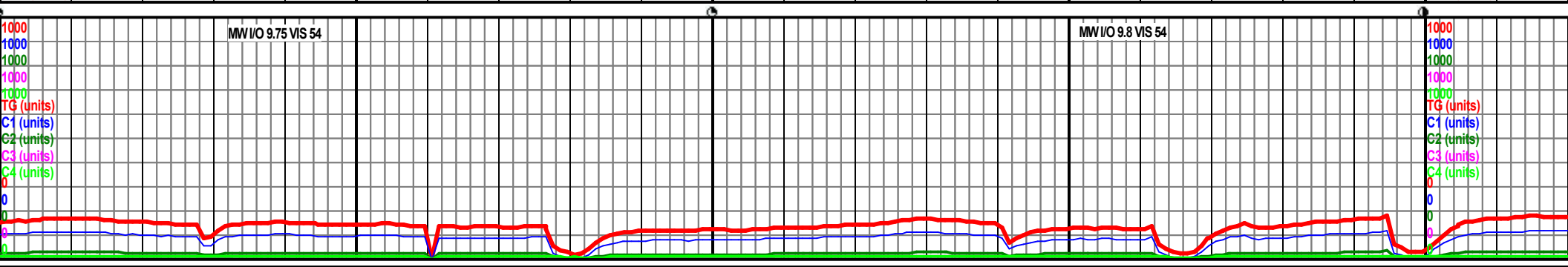
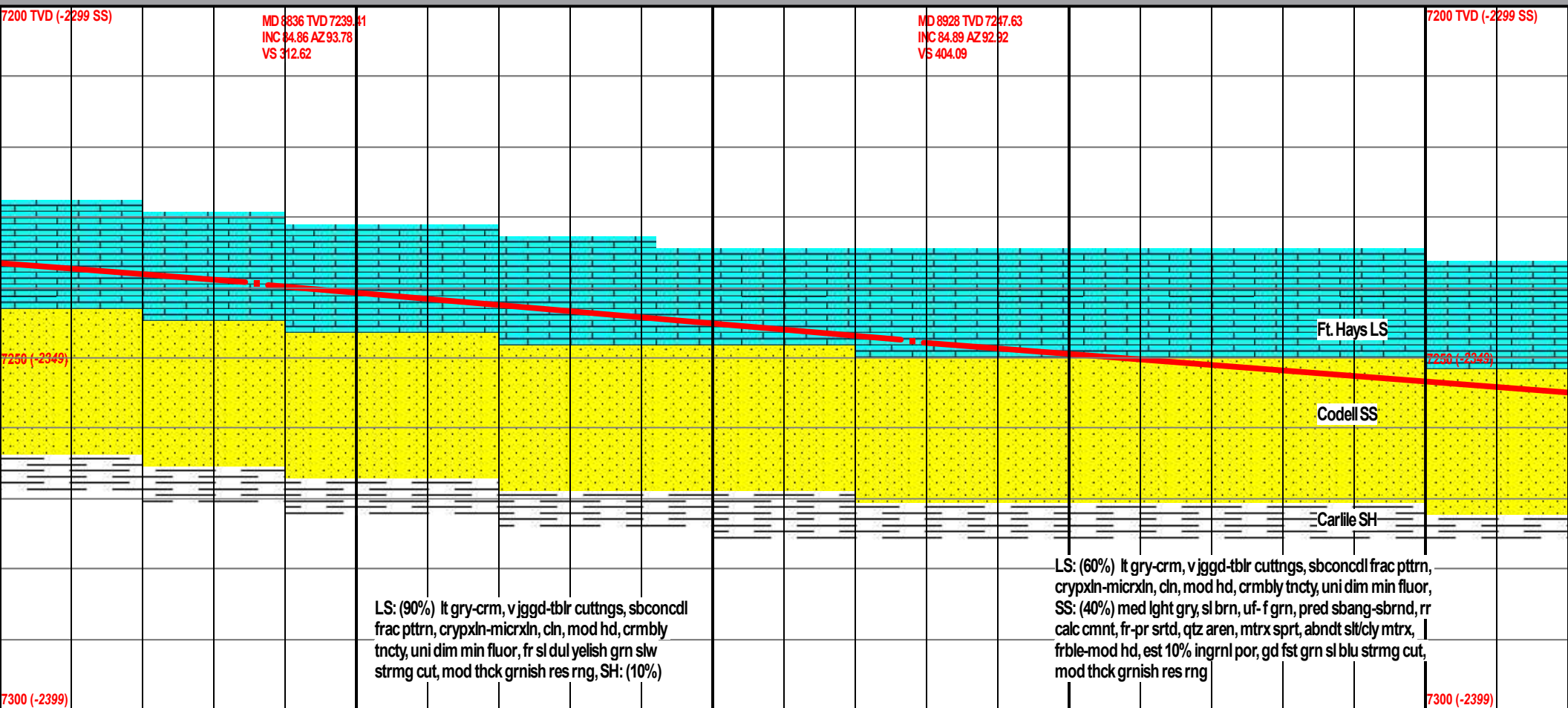
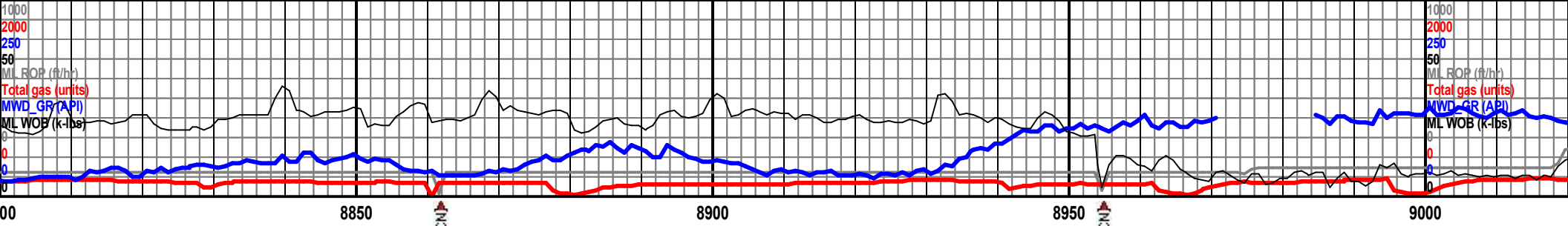
7250 (-2349)

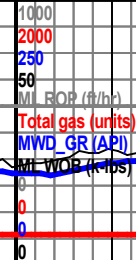
MW I/O 9.75 VIS 54

Depth 8186
MW 9.8
VIS 54
PV 13
YP 5
Gels 7/13/15
Fil 1
Corr.Sol 11%
OW 86.3/13.7
ES 1200
CI 34000
ECD 10.6

1000
1000
1000
1000
1000
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
0
0
0
0
0

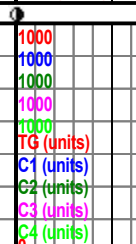
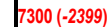


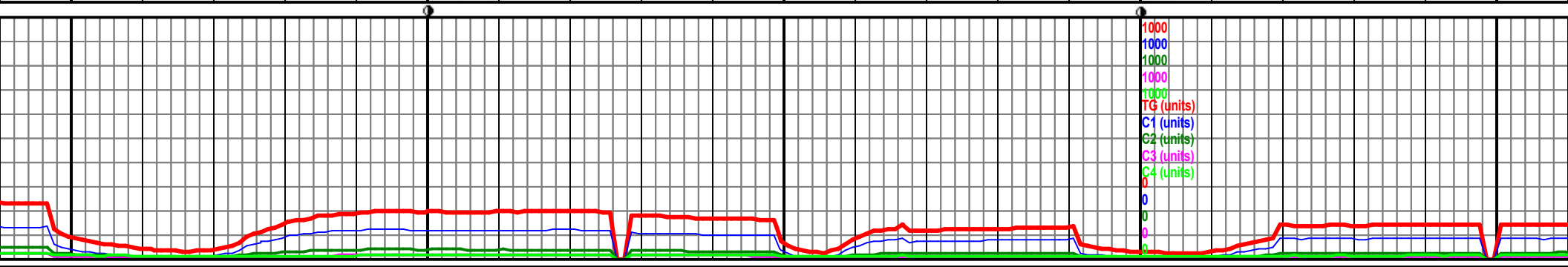
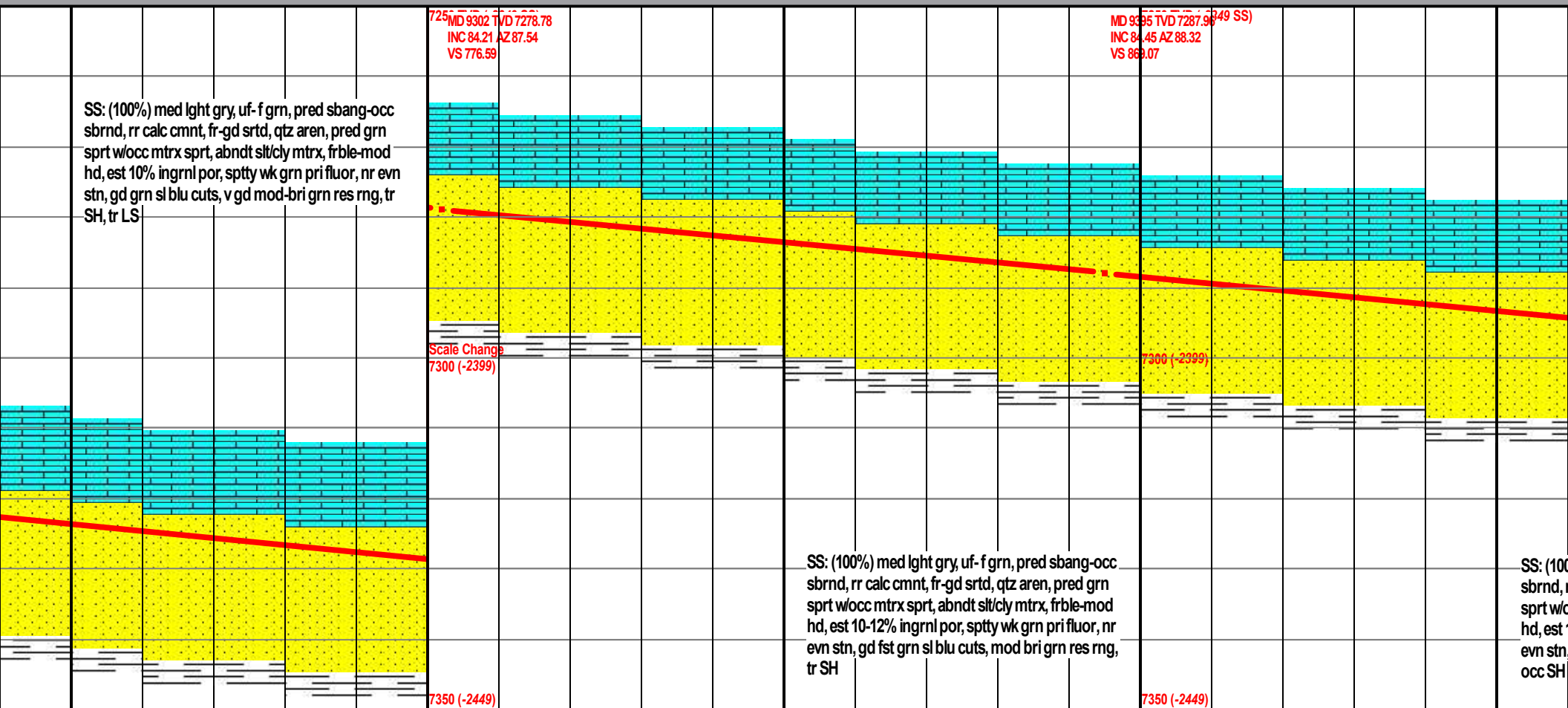
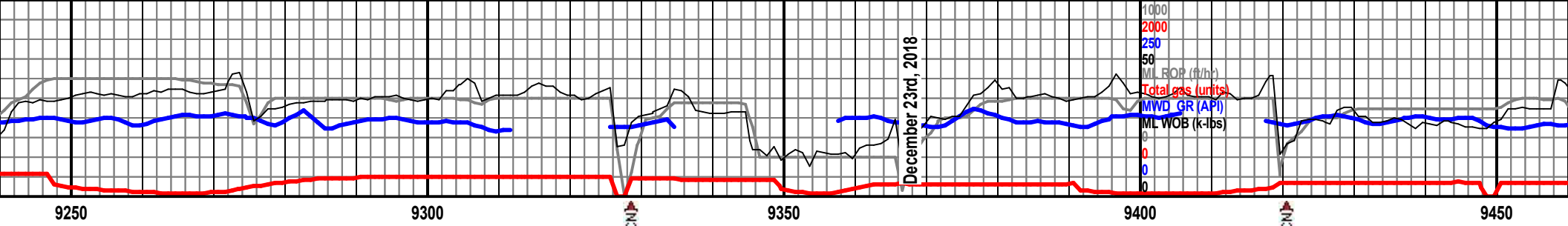


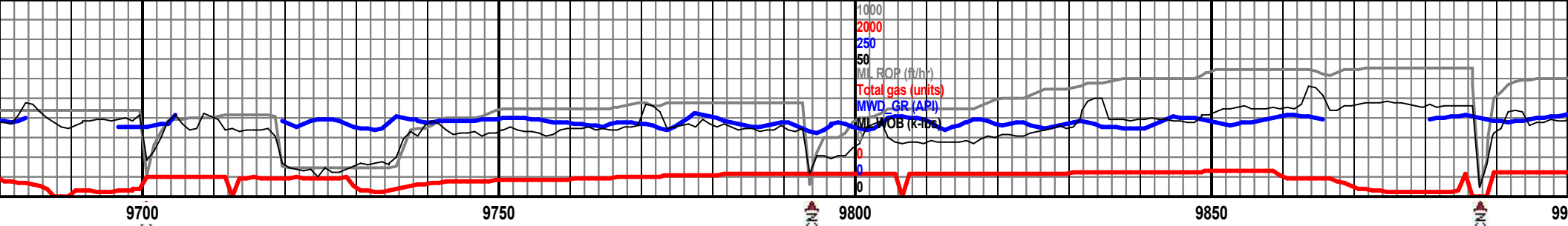


7200 TVD (-2200 -2200)	MD 9210 TVD 7269.69
	INC 84.45 AZ 37.93
	VS 685.11

SS: (90%) med lght gry, uf-f grn, pred sbang-occ
sbrnd, rr calc cmnt, fr-gd srted, qtz aren, pred grn
spt w/occ mtrx spt, abndt sil/cly mtrx, frible-mod hd,
est 10% ingrnl por, sppty wk grn pri fluor, nr evn stn,
gd grn sl blu cuts, v gd mod-bri grn res rng, LS:
(10%), tr SH







TVD 7315.05
AZ 91.34
71

pred sbang-occ
aren, pred grn sprt
r, frble-mod hd, est
pri fluor, nr evn stn,
bri grn res rng.

MD 9766 TVD 7324.14
INC 14.39 AZ 91.83
VS 1238.23

SS: (100%) med lght gry, uf-f grn, pred sbang-occ
sbrnd, rr calc cmnt, fr-gd srted, qtz aren, pred grn sprt
w/occ mtrx sprt, abndt slt/cly mtrx, frble-mod hd, est
10-12% ingrnl por, nr evn md grn pri fluor, nr evn stn,
md -brgt fst grn strmg cuts, mod bri grn res rng.

7250 TVD (-2349 SS)

7310 TVD (-2333.25)
MD 9859 TVD 7333.25
INC 84.36 AZ 90.44
VS 1330.76

Scale Change
7360 (-2459)

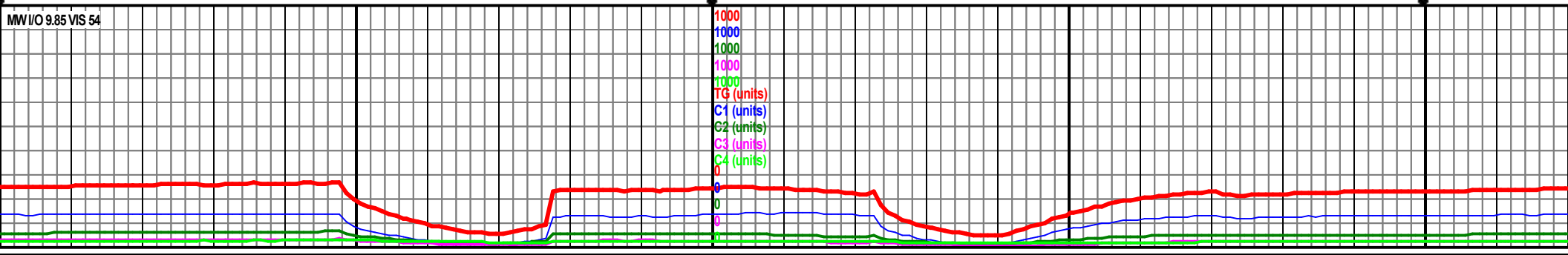
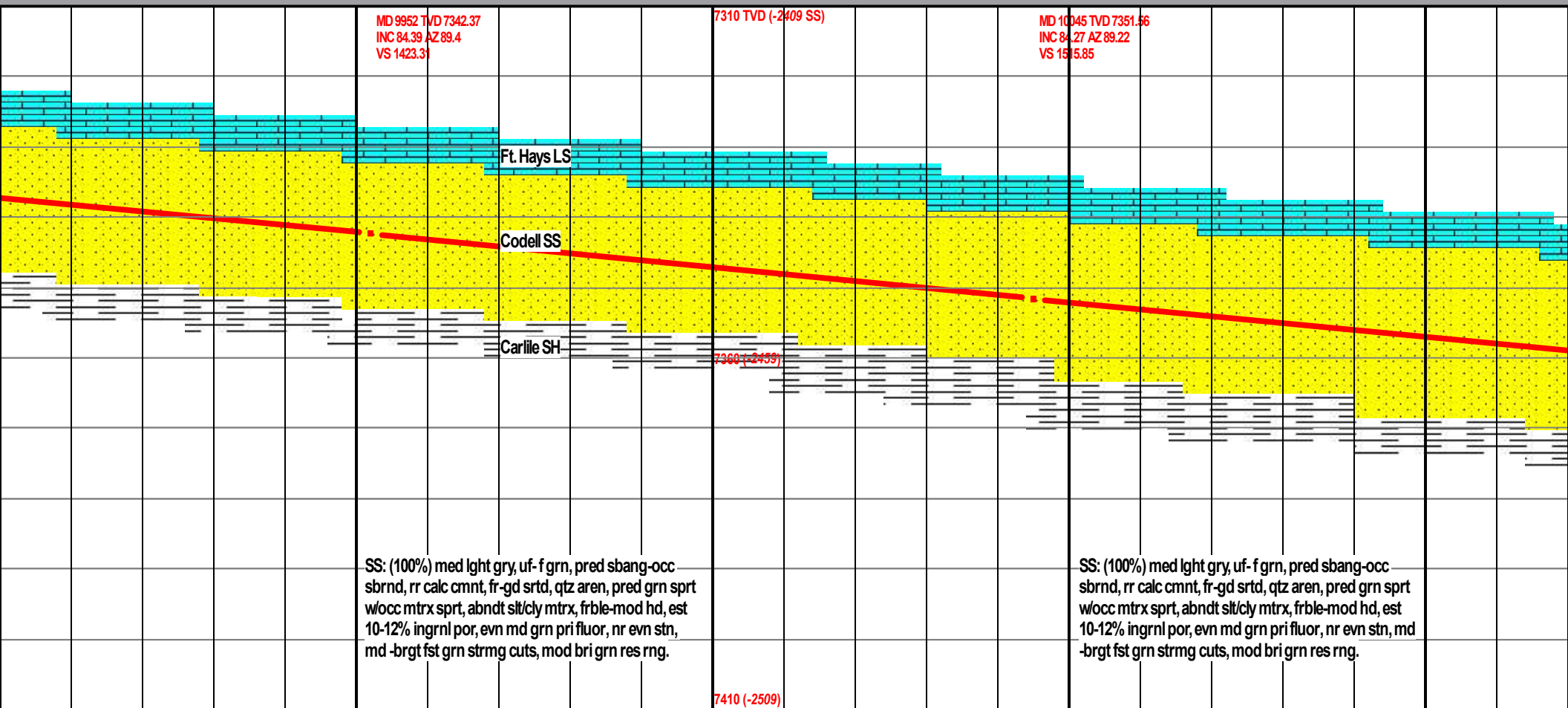
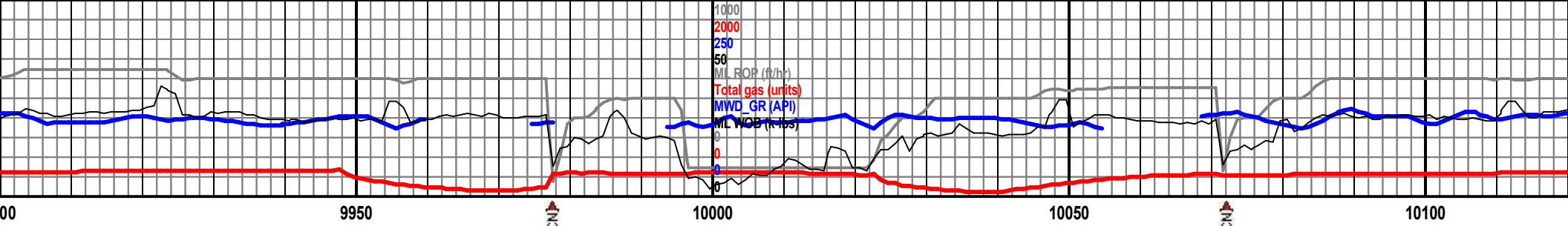
7300 (-2399)

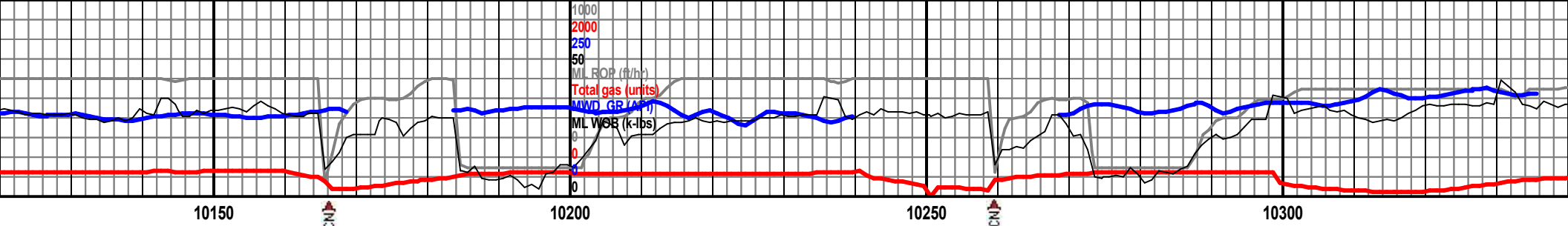
7350 (-2449)

7410 (-2509)

SS: (100%) med lght gry, uf-f grn, pred sbang-occ
sbrnd, rr calc cmnt, fr-gd srted, qtz aren, pred grn sprt
w/occ mtrx sprt, abndt slt/cly mtrx, frble-mod hd, est
10-12% ingrnl por, evn md grn pri fluor, nr evn stn,
md -brgt fst grn strmg cuts, mod bri grn res rng.

1000
1000
1000
1000
1000
1000
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)



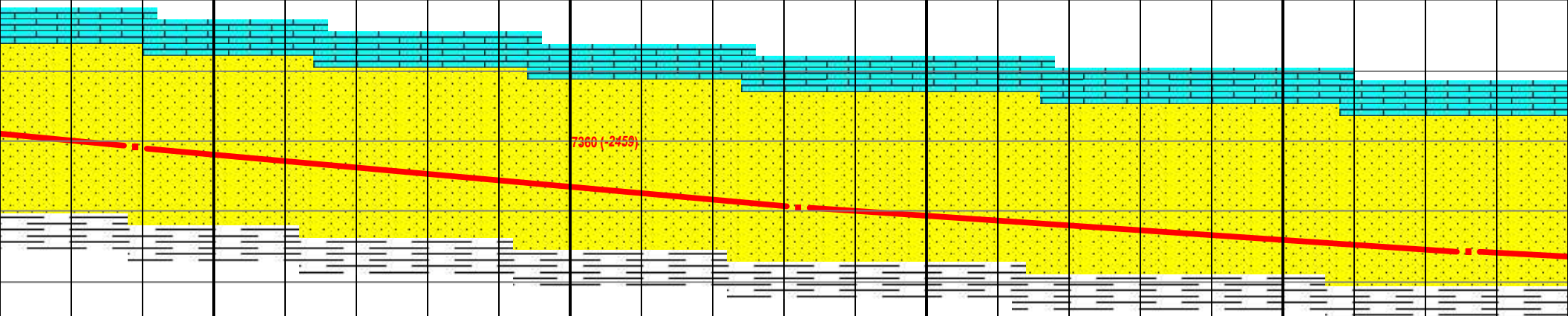


MD 10139 TVD 7360.94
INC 84.27 AZ 94.35
VS 1609.38

7310 TVD (-2409 SS)

MD 10232 TVD 7369.44
INC 85.25 AZ 90.6
VS 1701.99

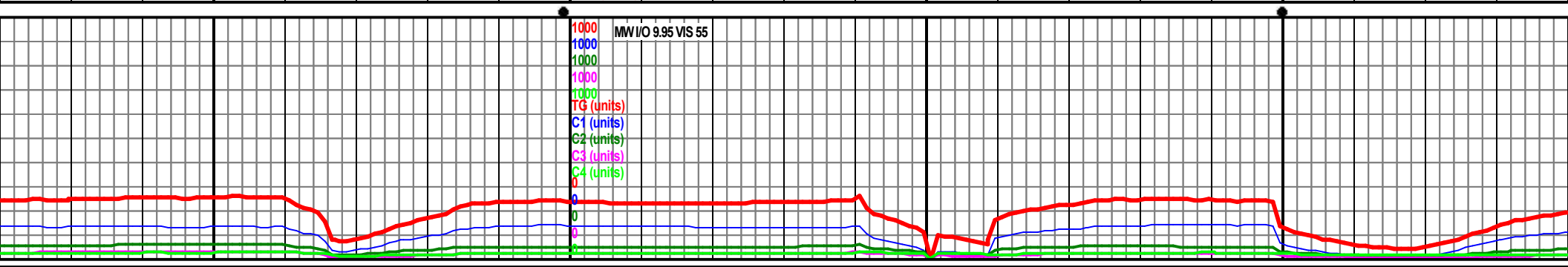
MD 10326 TVD 7374.44
INC 87.07 AZ 93.2
VS 1795.71

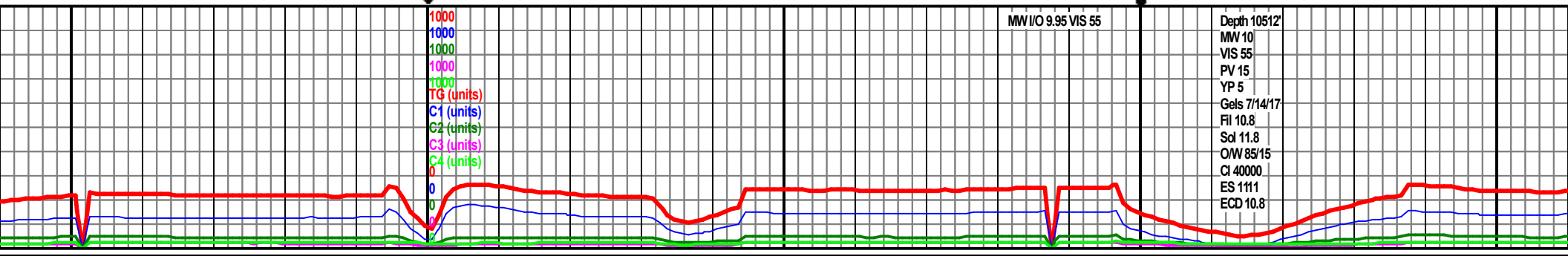
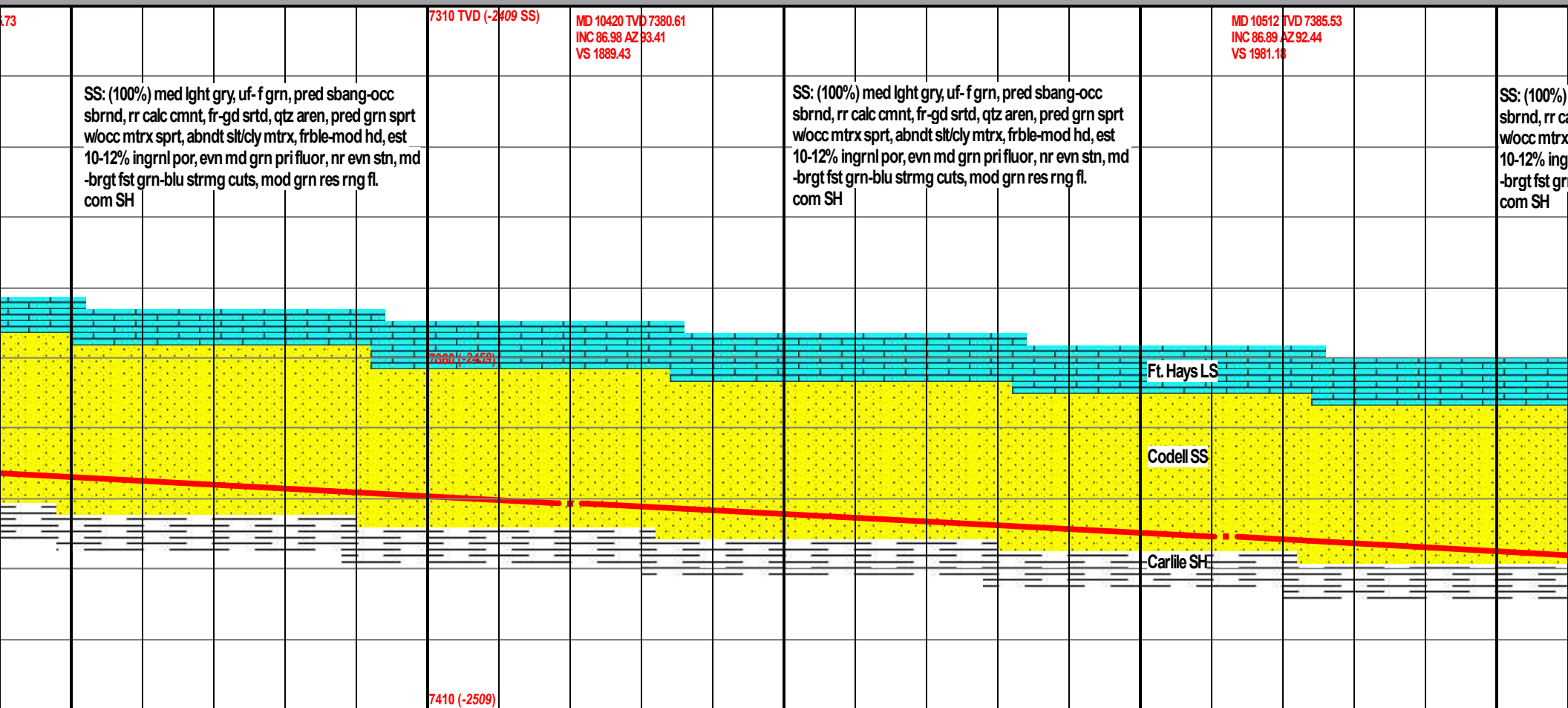
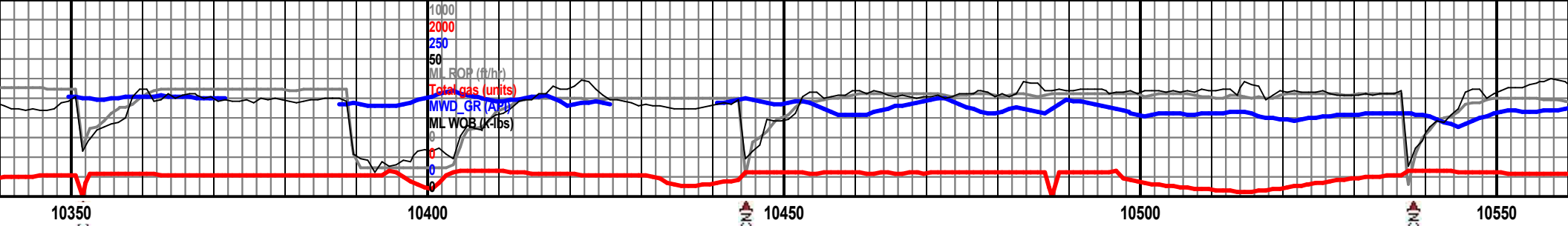


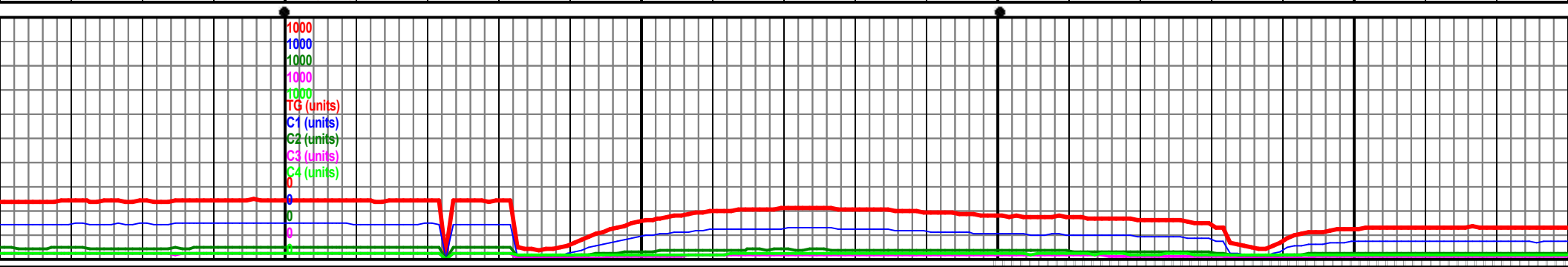
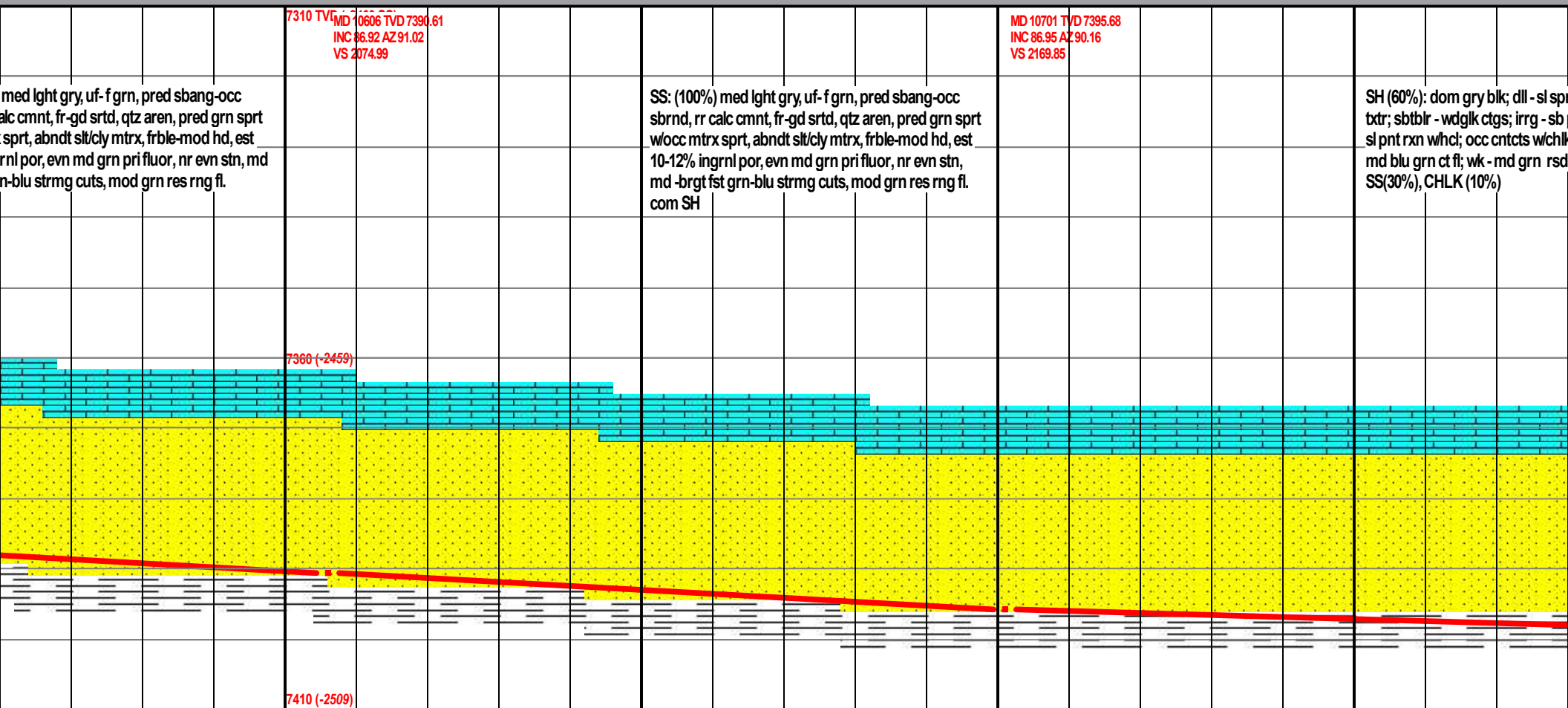
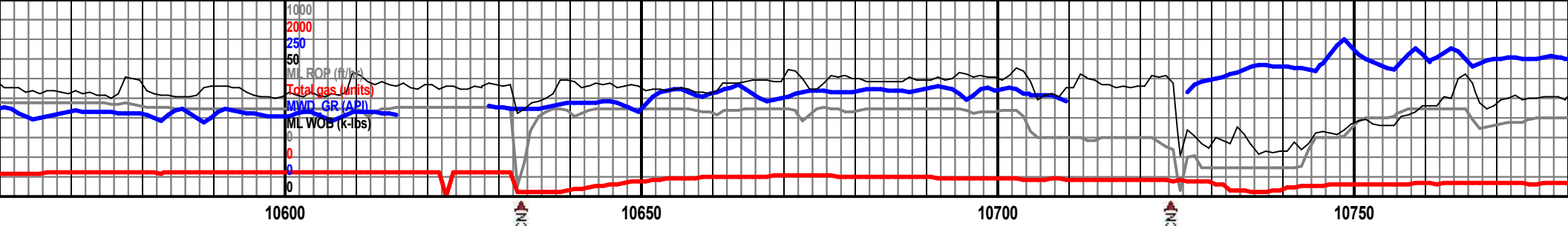
SS: (100%) med lght gry, uf-f grn, pred sbang-occ
sbrnd, rr calc cmnt, fr-gd srtd, qtz aren, pred grn
sprt w/occ mtrx sprt, abndt slt/cly mtrx, frble-mod
hd, est 10-12% ingrnl por, evn md grn pri fluor, nr
evn stn, md -brgt fst grn strmg cuts, mod bri grn res
rng.

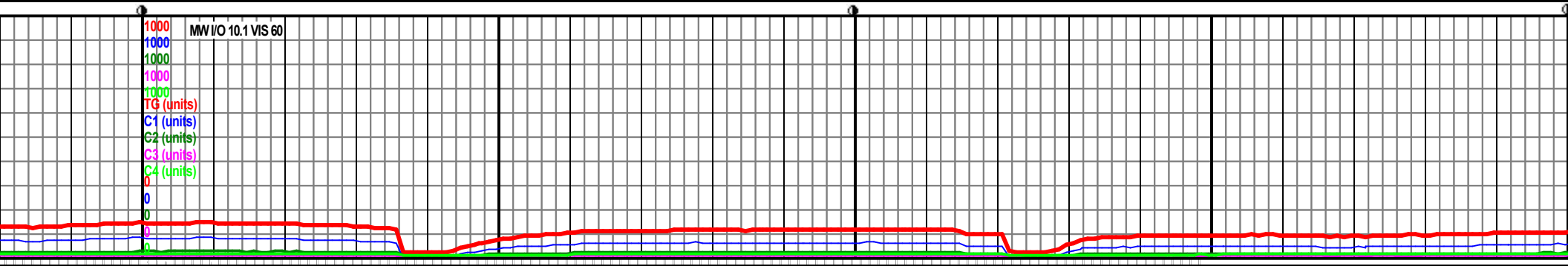
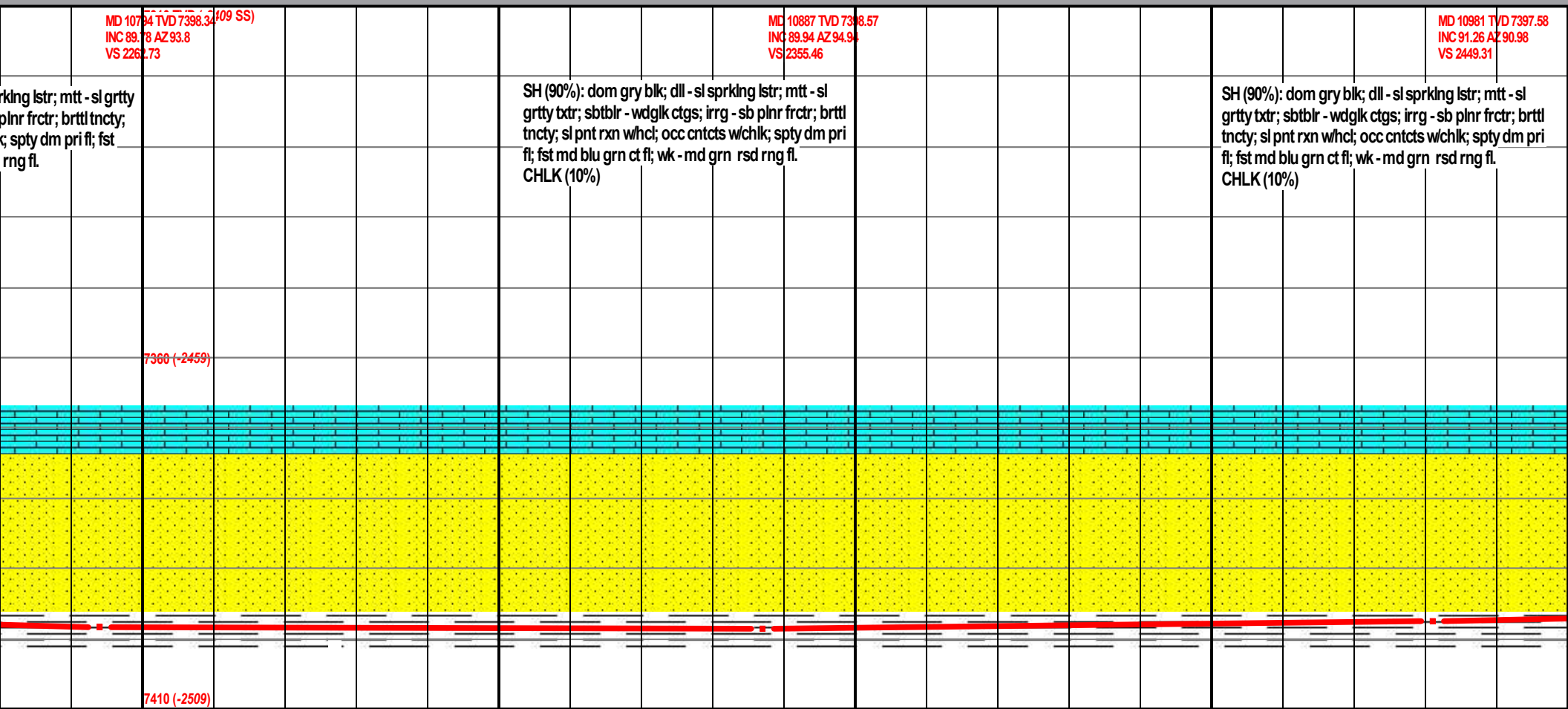
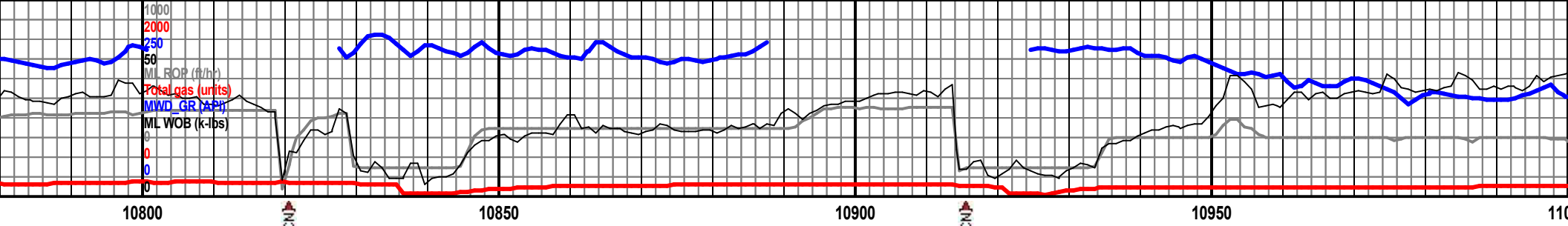
SS: (100%) med lght gry, uf-f grn, pred sbang-occ
sbrnd, rr calc cmnt, fr-gd srtd, qtz aren, pred grn sprt
w/occ mtrx sprt, abndt slt/cly mtrx, frble-mod hd, est
10-12% ingrnl por, evn md grn pri fluor, nr evn stn, md
-brgt fst grn strmg cuts, mod bri grn res rng.
com SH

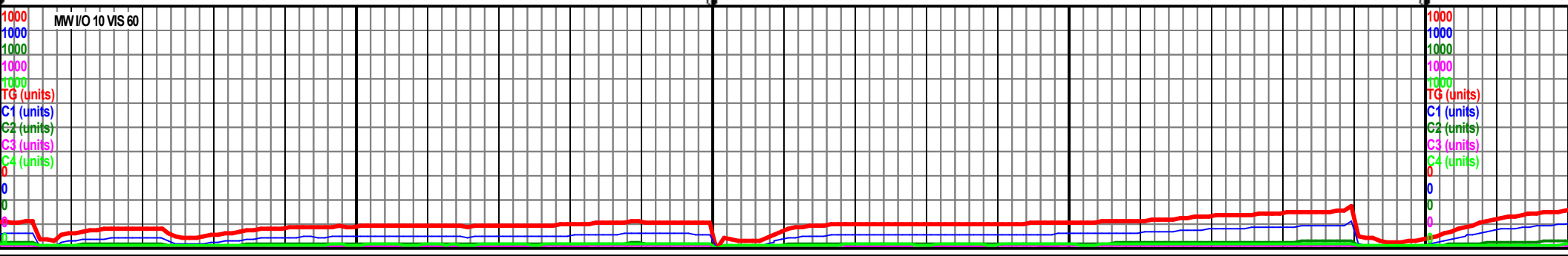
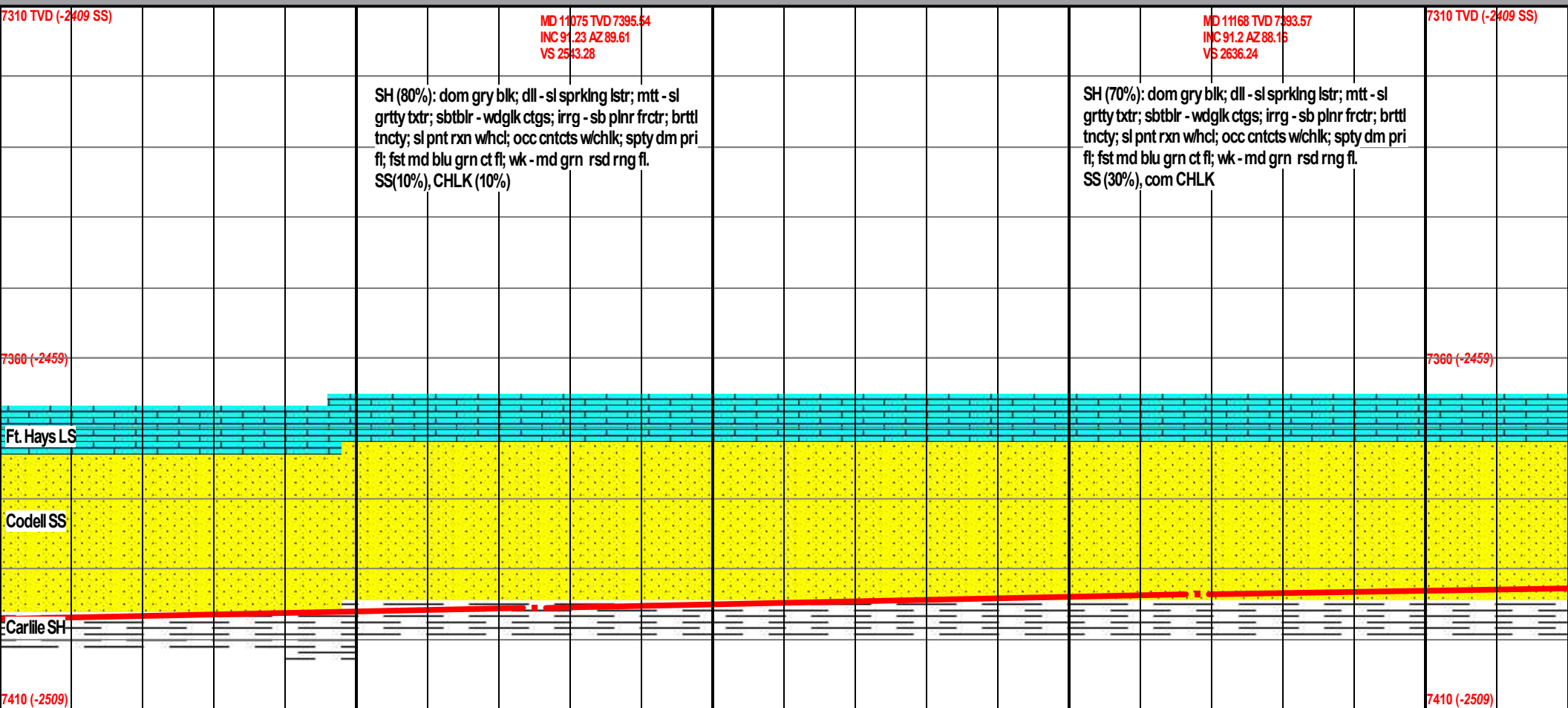
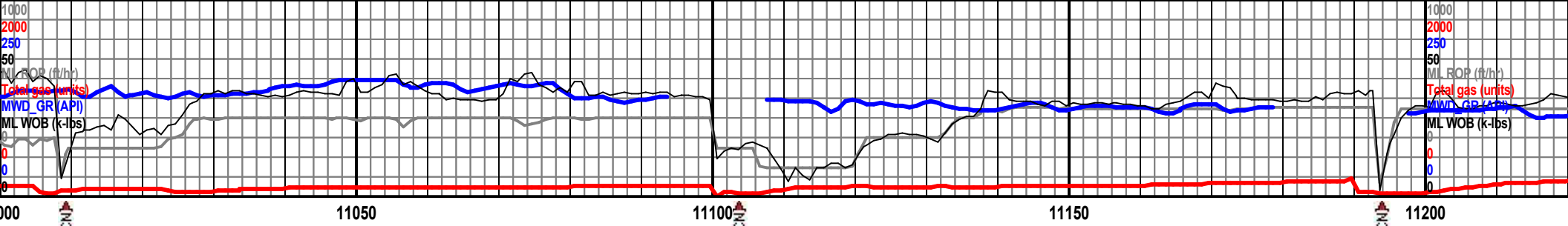
7410 (-2509)

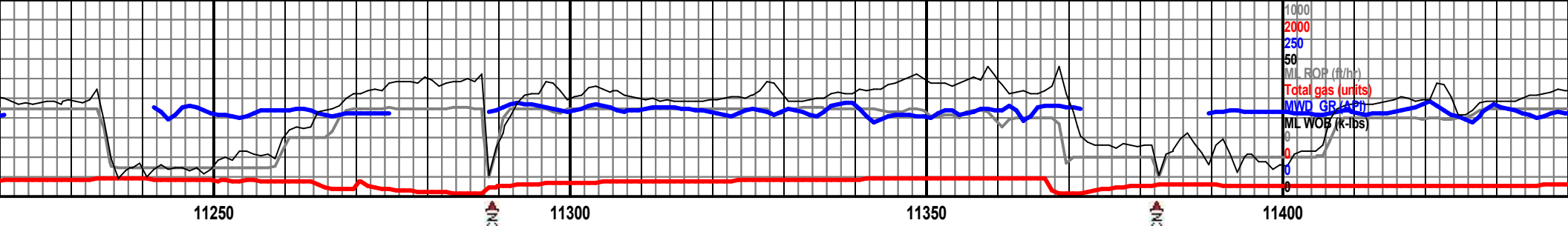












MD 11262 TVD 7392.18
INC 90.49 AZ 86.38
VS 2730.12

SS: (95%) med lght gry, uf-f grn, pred sbang-occ
sbrnd, rr calc cmnt, fr-gd srtd, qtz aren, pred grn sprt
w/occ mtrx sprt, abndt slt/cly mtrx, frble-mod hd, est
10-12% ingrnl por, evn md grn pri fluor, nr evn stn,
md -brgt fst grn-blu strmg cuts, mod grn res rng fl.
SH(5%)

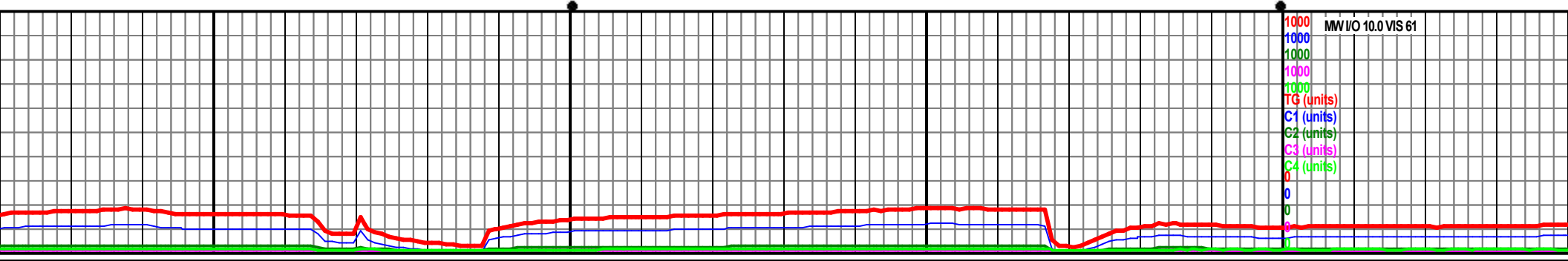
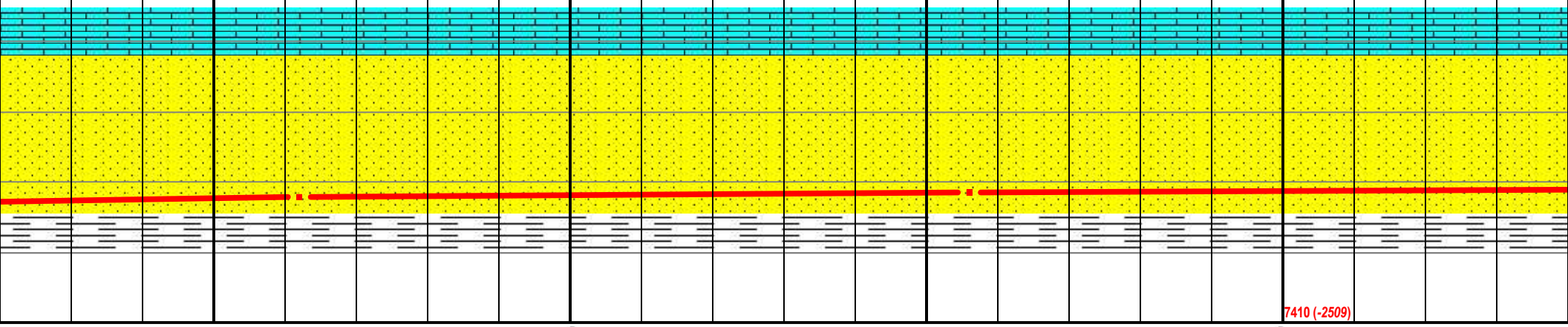
MD 11356 TVD 7391.45
INC 90.4 AZ 84.81
VS 2823.84

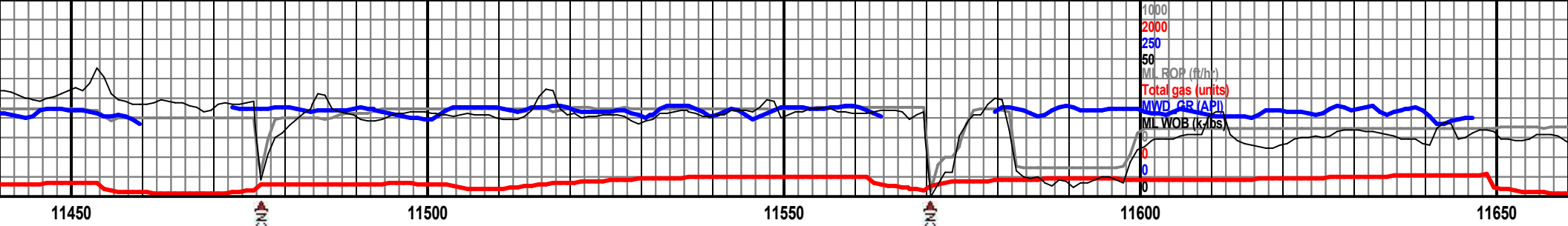
SS: (95%) med lght gry, uf-f grn, pred sbang-occ
sbrnd, rr calc cmnt, fr-gd srtd, qtz aren, pred grn sprt
w/occ mtrx sprt, abndt slt/cly mtrx, frble-mod hd, est
10-12% ingrnl por, evn md grn pri fluor, nr evn stn, md
-brgt fst grn-blu strmg cuts, mod grn res rng fl.
SH(5%)

7310 TVD (-2409 SS)

7360 (-2459)

7410 (-2509)





MD 11449 TVD 7391.03
INC 90.12 AZ 85.71
VS 2916.52

SS: (95%) med lght gry, uf-f grn, pred sbang-occ
sbrnd, rr calc cmnt, fr-gd srtd, qtz aren, pred grn sprt
w/occ mtrx sprt, abndt slt/cly mtrx, frble-mod hd, est
10-12% ingrnl por, evn md grn pri fluor, nr evn stn, md
-brgt fst grn-blu strmg cuts, mod grn res rng fl.
SH(5%)

MD 11541 TVD 7390.83
INC 90.12 AZ 85.56
VS 3010.25

SS: (95%) med lght gry, uf-f grn, pred sbang-occ
sbrnd, rr calc cmnt, fr-gd srtd, qtz aren, pred grn sprt
w/occ mtrx sprt, abndt slt/cly mtrx, frble-mod hd, est
10-12% ingrnl por, evn md grn pri fluor, nr evn stn, md
-brgt fst grn-blu strmg cuts, mod grn res rng fl.
SH(5%)

7310 TVD (-2409 SS)

MD 11635 TVD 7390
INC 90.92 AZ 86.46
VS 3102.02

SS: (100%)
sbrnd, rr
sprt w/occ
hd, est 10-
evn stn, m
res rng fl.
rr SH

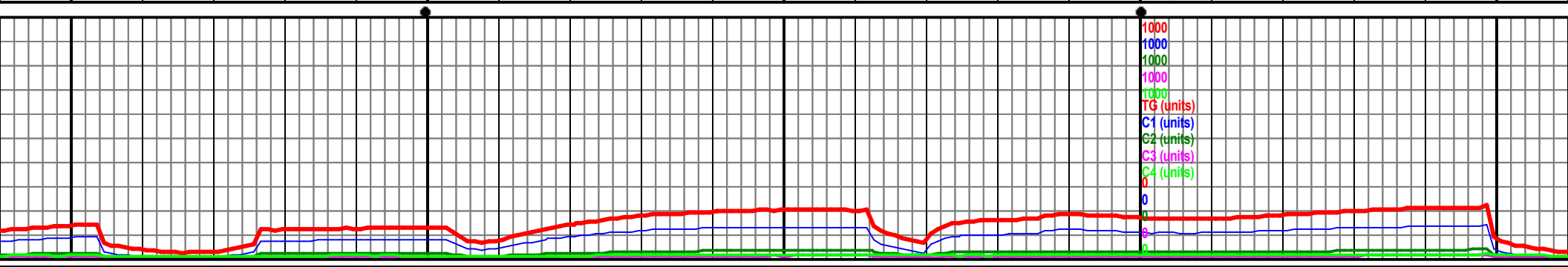
Ft. Hays LS

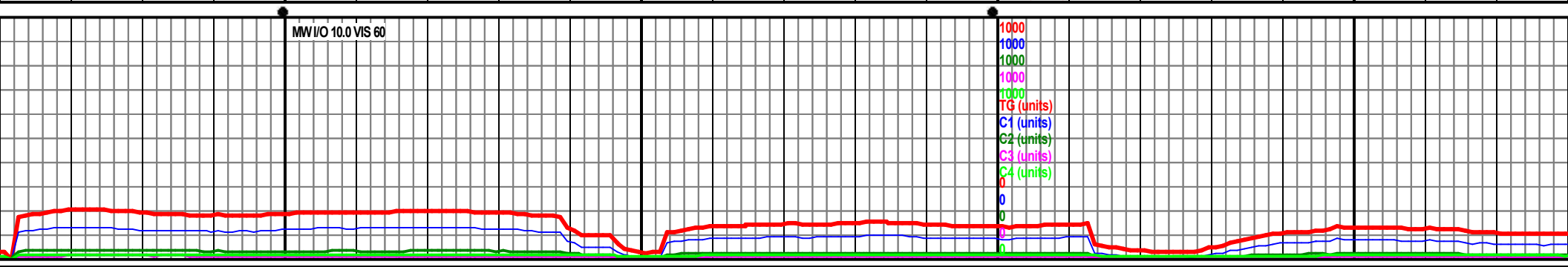
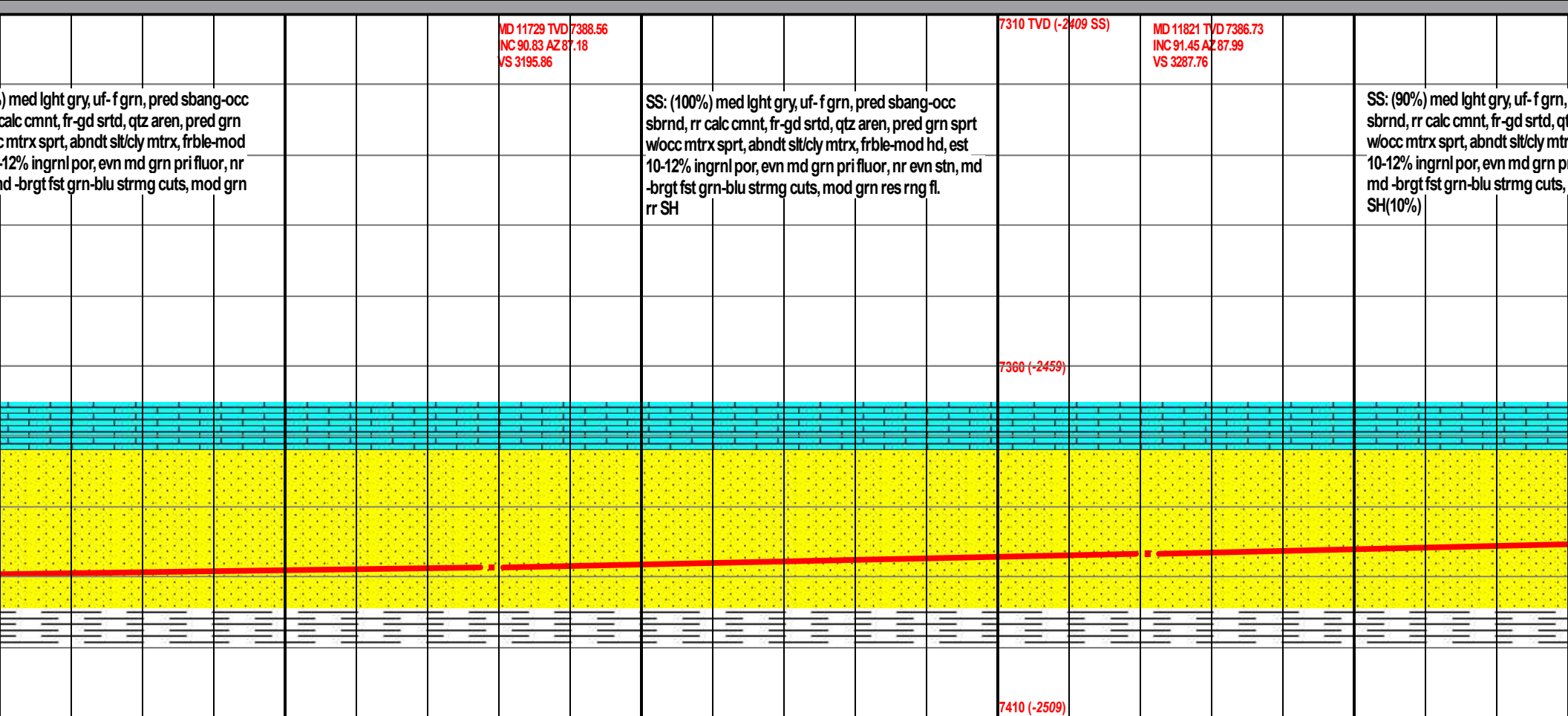
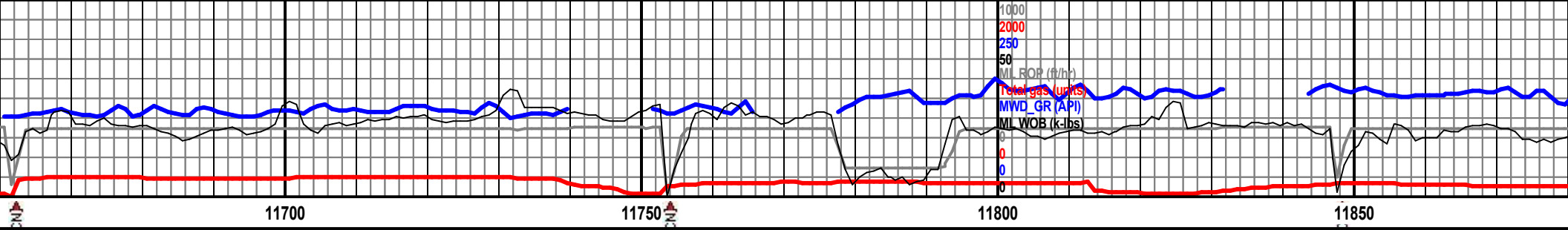
Codell SS

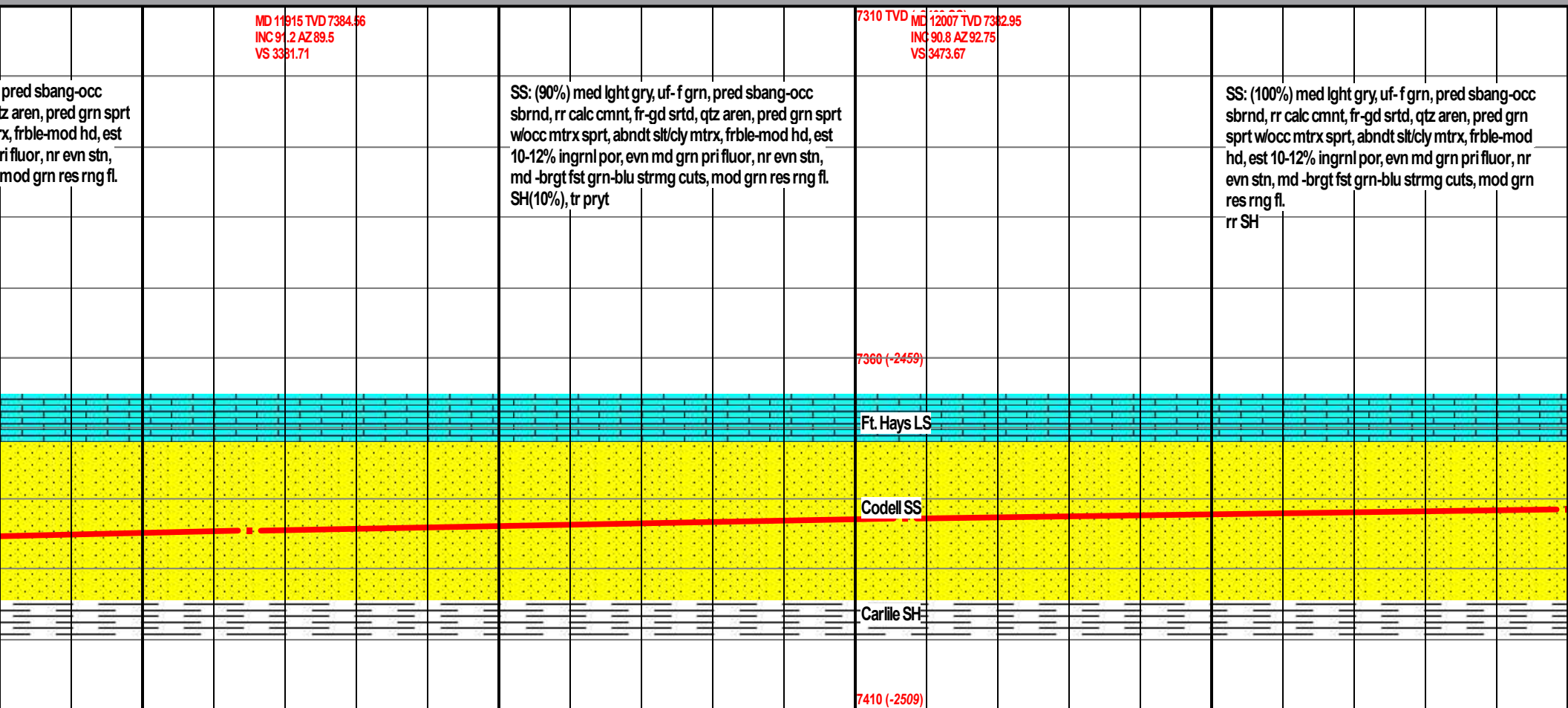
Carlile SH

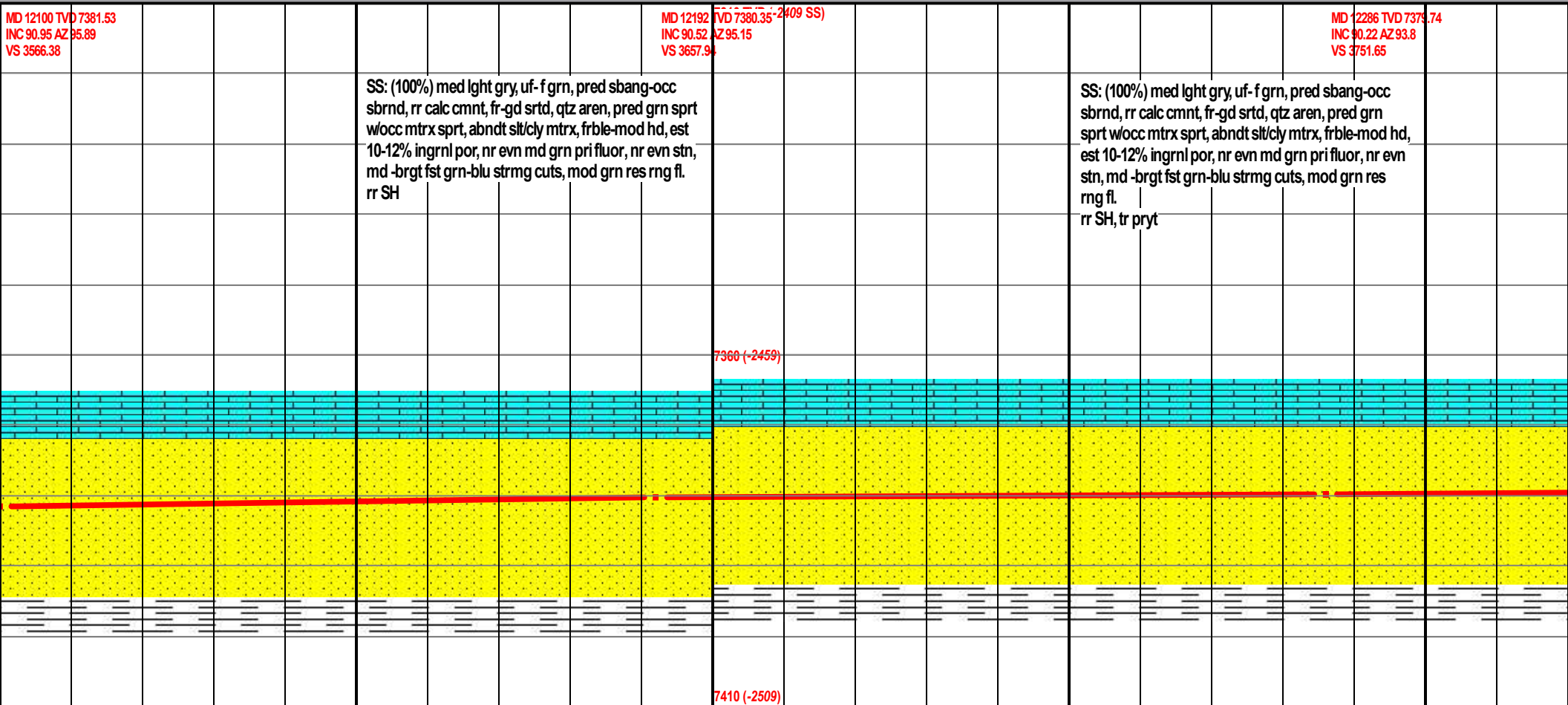
7360 (-2459)

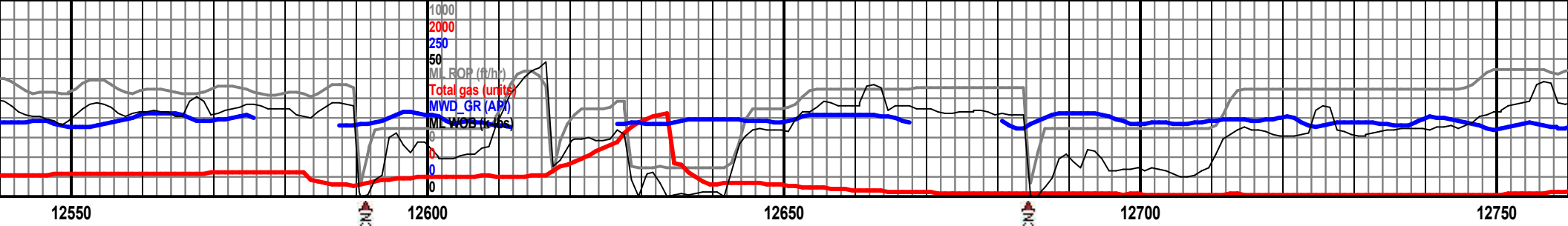
7410 (-2509)











MD 12554 TVD 7377.87
INC 90.43 AZ 91.57
VS 4029.12

7310 TVD (-2409 SS)

MD 12659 TVD 7376.95
INC 90.68 AZ 90.99
VS 4124.09

MD 12752
INC 90.43
VS 4217.00

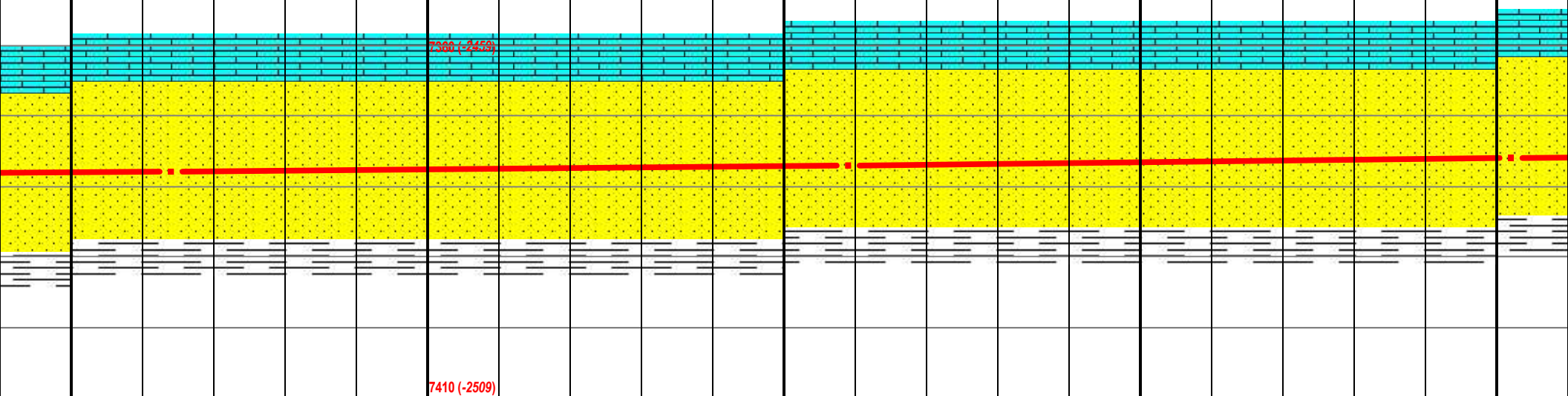
SS: (100%) med lght gry, uf-f grn, pred sbang-occ
sbrnd, rr calc cmnt, fr-gd srted, qtz aren, pred grn
sprt w/occ mtrx sprt, abndt slt/cly mtrx, frble-mod
hd, est 10-12% ingrnl por, nr evn md grn pri fluor,
nr evn stn, md-brgt fst grn-blu strmg cuts, mod
grn res rng fl.
tr SH

SS: (100%) med lght gry, uf-f grn, pred sbang-occ
sbrnd, rr calc cmnt, fr-gd srted, qtz aren, pred grn
sprt w/occ mtrx sprt, abndt slt/cly mtrx, frble-mod
hd, est 10-12% ingrnl por, nr evn md grn pri fluor,
nr evn stn, mod bri fst grn sl blu strmg cuts, mod
grn res rng fl.
tr SH

SS: (100%)
sbrnd, rr
w/occ mtr
10-12% in
mod bri fs
res rng fl.
rr SH

7360 (-2456)

7410 (-2509)



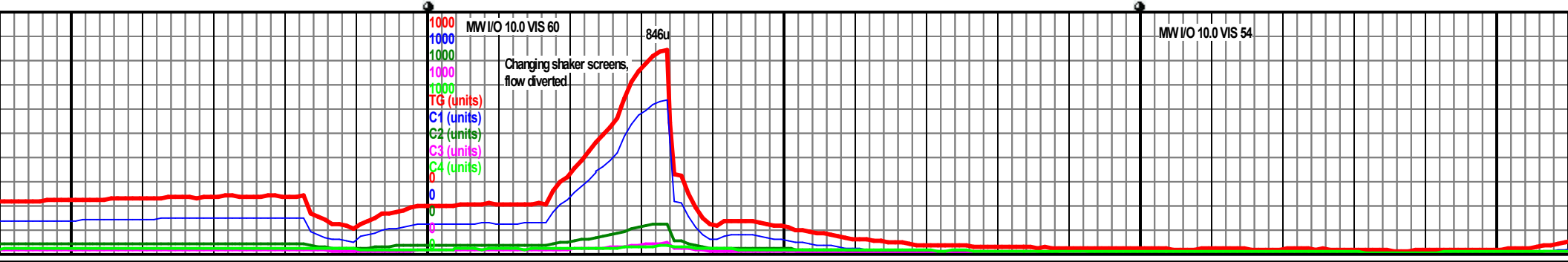
1000 MW I/O 10.0 VIS 60

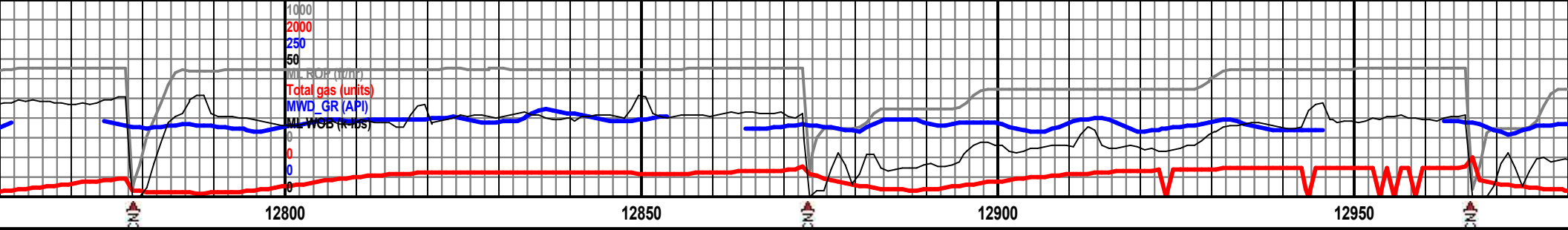
Changing shaker screens,
flow diverted

TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)

846u

MW I/O 10.0 VIS 54





TVD 7376.05
AZ 90.61
VS 4310.07

7310 TVD (-2409 SS)

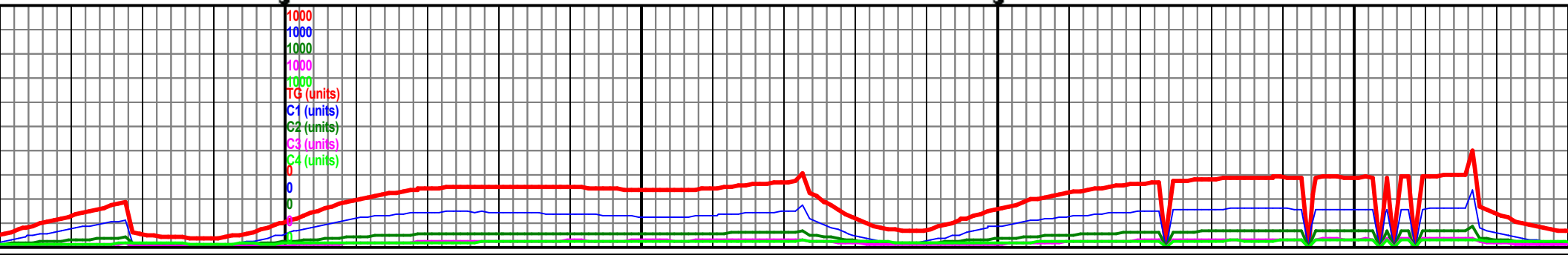
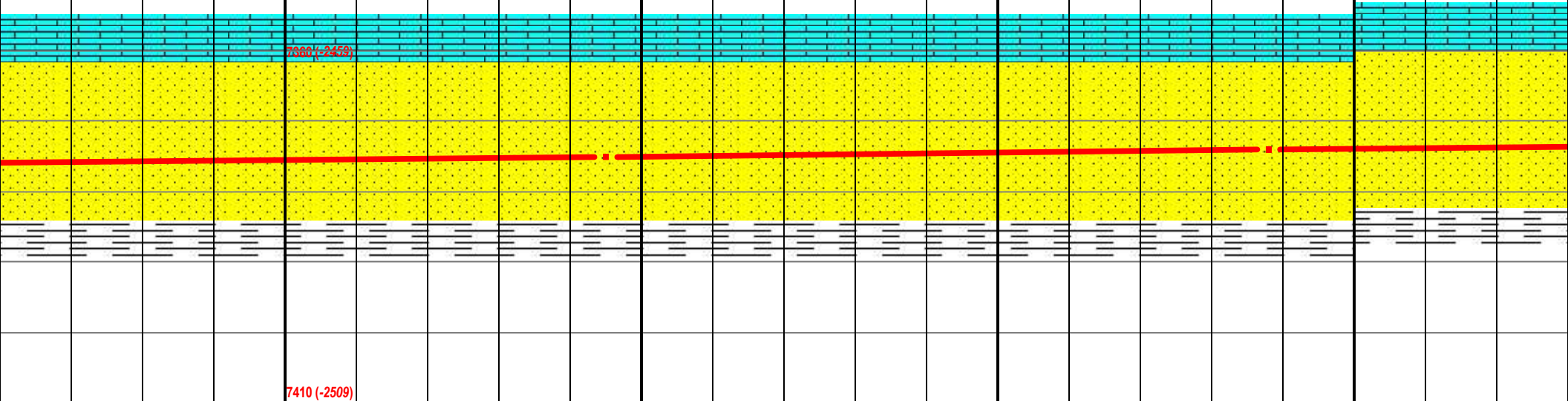
MD 12845 TVD 7375.08
INC 90.77 AZ 90.14
VS 4310.07

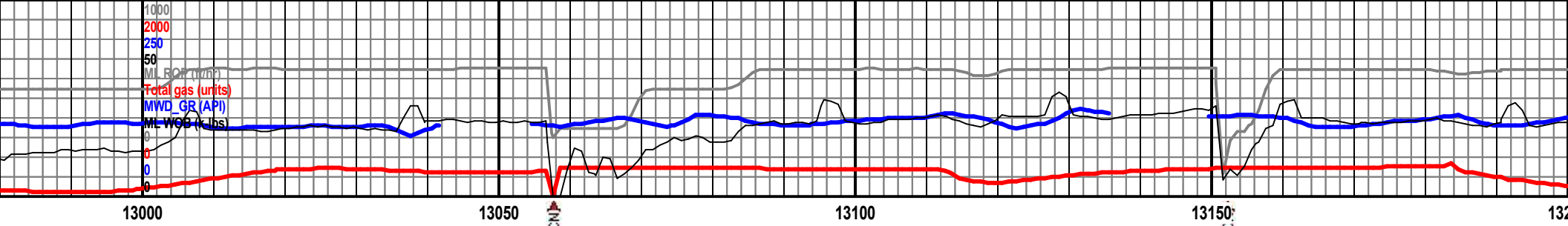
MD 12938 TVD 7373.95
INC 90.62 AZ 89.47
VS 4403.06

) med lght gry, uf-f grn, pred sbang-occ
calc cmnt, fr-gd srted, qtz aren, pred grn sprt
x sprt, abndt slt/cly mtrx, frble-mod hd, est
grnl por, nr evn md grn pri fluor, nr evn stn,
st grn sl blu cuts w/ thn rad strms, mod grn

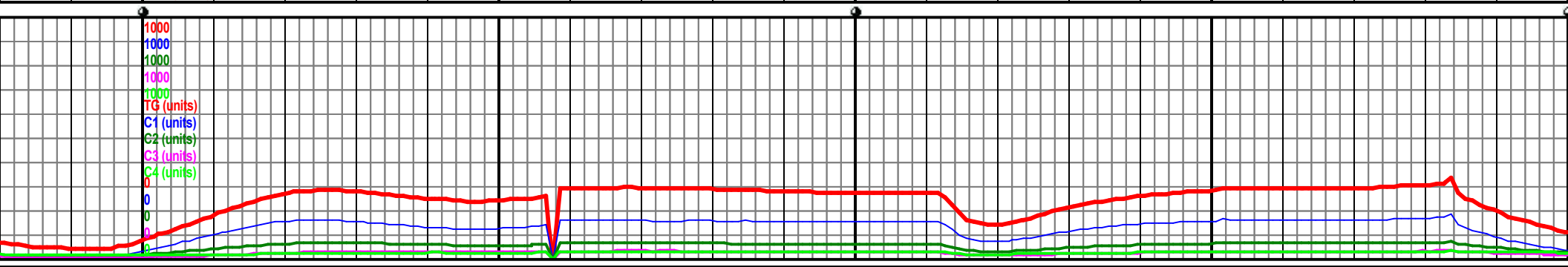
SS: (100%) med lght gry, uf-f grn, pred sbang-occ
sbrnd, rr calc cmnt, fr-well srted, qtz aren, pred grn
sprt w/occ mtrx sprt, abndt slt/cly mtrx, frble-mod hd,
est 10-12% ingrnl por, nr evn md grn pri fluor, nr evn
stn, mod bri fst grn sl blu cuts w/ thn rad strms,
mod grn res rng fl.
rr SH

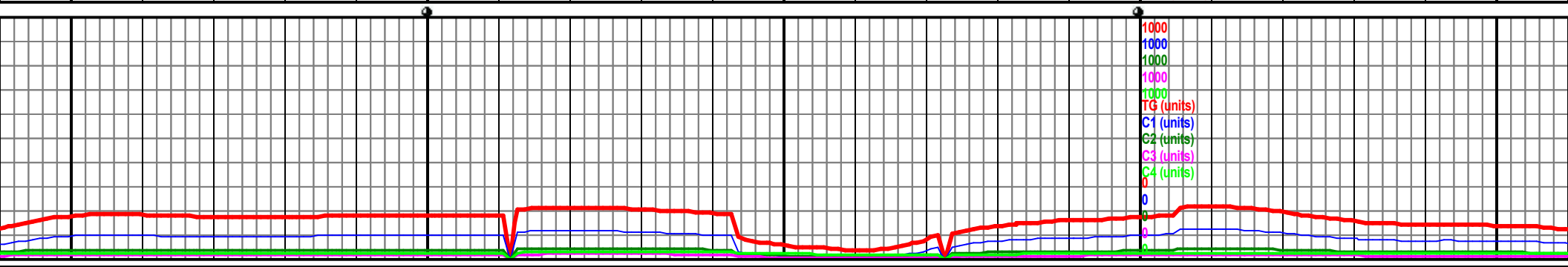
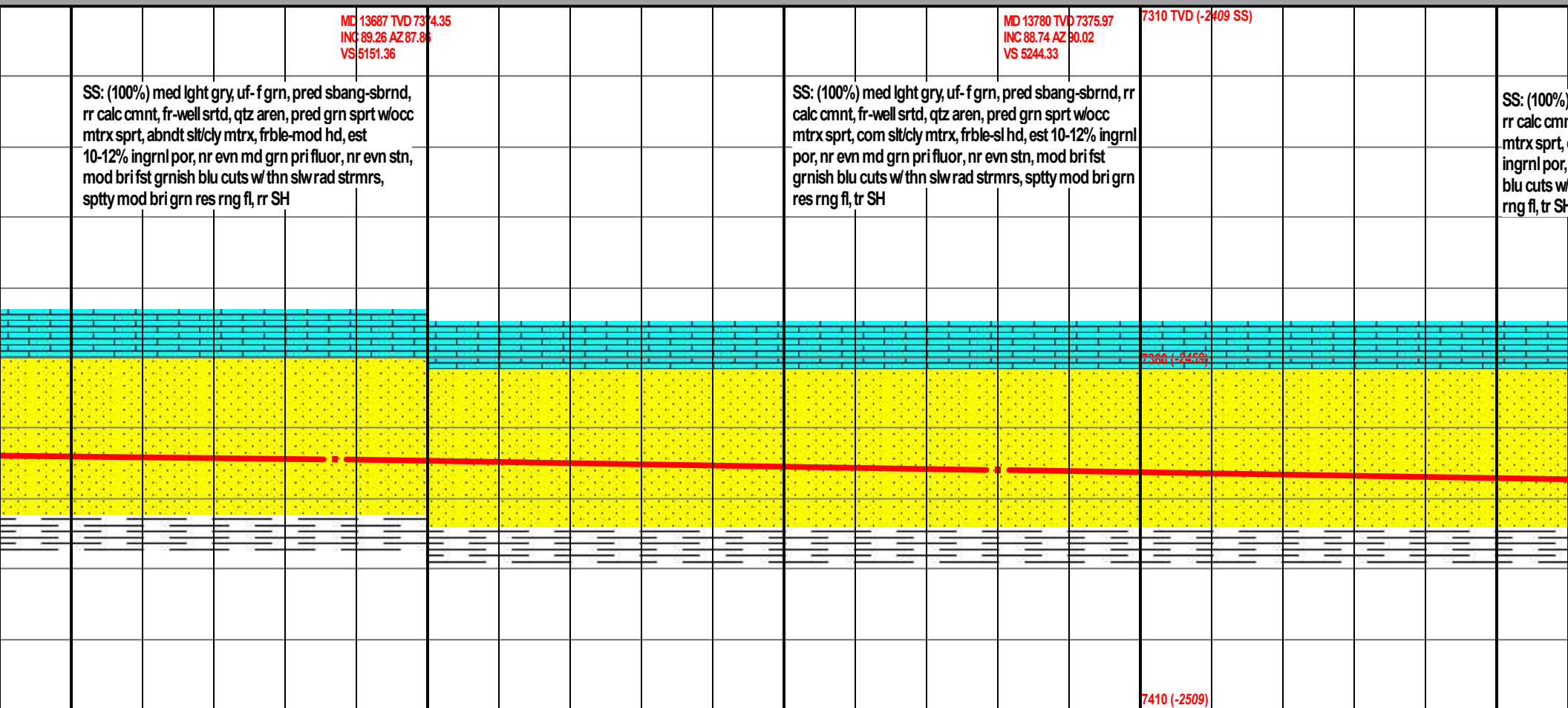
SS: (100%) med lght gry, uf-f grn,
sbrnd, rr calc cmnt, fr-well srted, qtz aren, pred grn
sprt w/occ mtrx sprt, abndt slt/cly mtrx, frble-mod hd,
est 10-12% ingrnl por, nr evn md grn pri fluor, nr evn
stn, mod bri fst grn sl blu cuts w/ thn rad strms,
mod grn res rng fl.

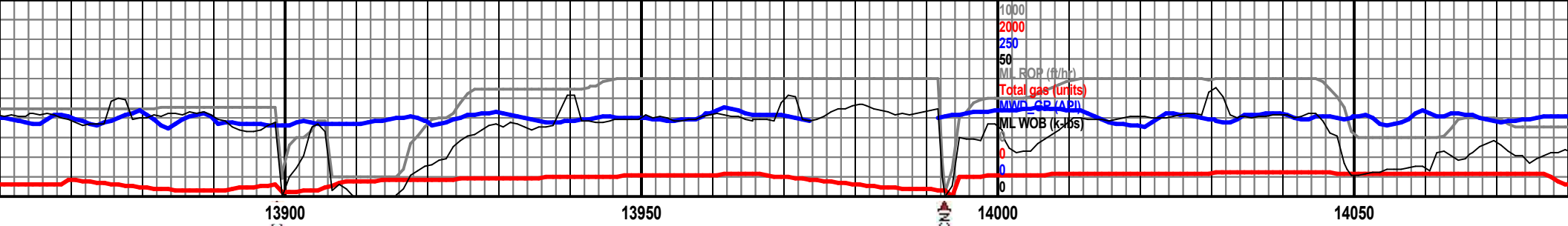




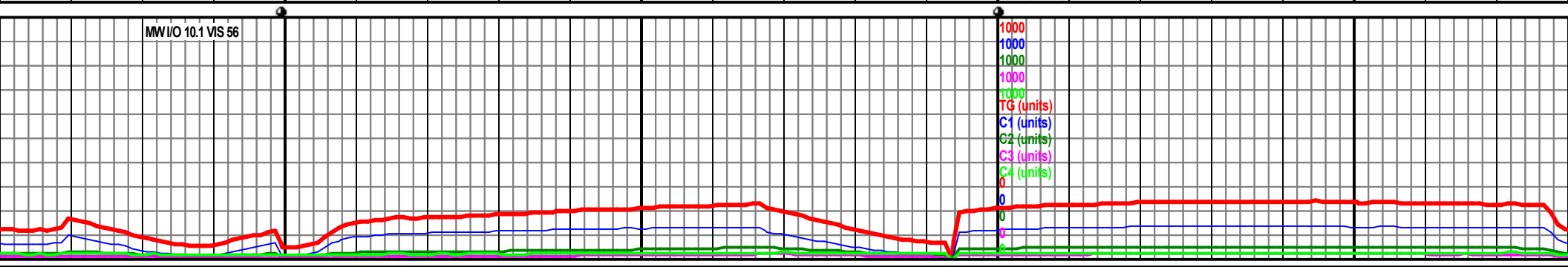
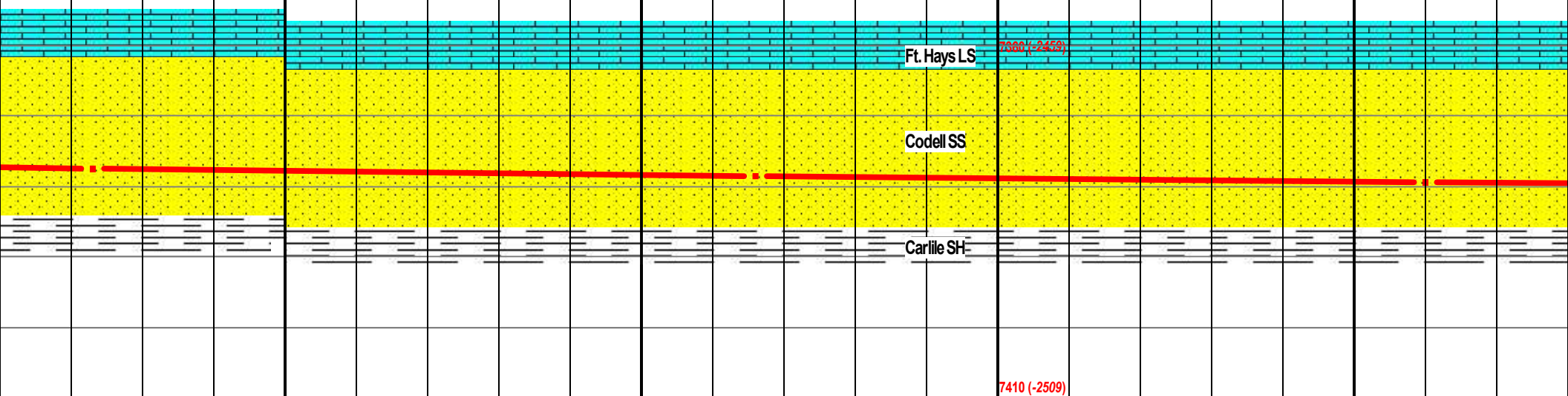
	7310 TVD (-2409 SS)		MD 13032 TVD 7373.04 INC 90.49 AZ 89.03 VS 4497.05			MD 13126 TVD 7372.38 INC 90.31 AZ 87.87 VS 4591.01		
pred sbang-occ z aren, pred grn sprt frble-mod hd, est pri fluor, nr evn stn, slw rad strmr, sptty			SS: (100%) med lght gry, uf-f grn, pred sbang-occ sbrnd, rr calc cmnt, fr-well srted, qtz aren, pred grn sprt w occ mtrx sprt, abndt slt/cly mtrx, frble-mod hd, est 10-15% ingrnl por, nr evn md grn pri fluor, evn stn, gd bri fst grn sl blu cuts w thn bluish rad strmr, sptty mod bri grn res rng fl.					SS: (100%) med lght gry, uf-f grn, pred sbang-occ sbrnd, occ calc cmnt, fr-well srted, qtz aren, pred grn sprt w occ mtrx sprt, abndt slt/cly mtrx, frble-mod hd, est 10-12% ingrnl por, nr evn md grn pri fluor, nr evn stn, mod bri fst grn sl blu cuts w thn slw rad strmr, sptty mod thck grn res rng fl.
	Ft. Hays LS							
	7360 (-2439)							
	Codell SS							
	Carlie SH							
	7410 (-2509)							

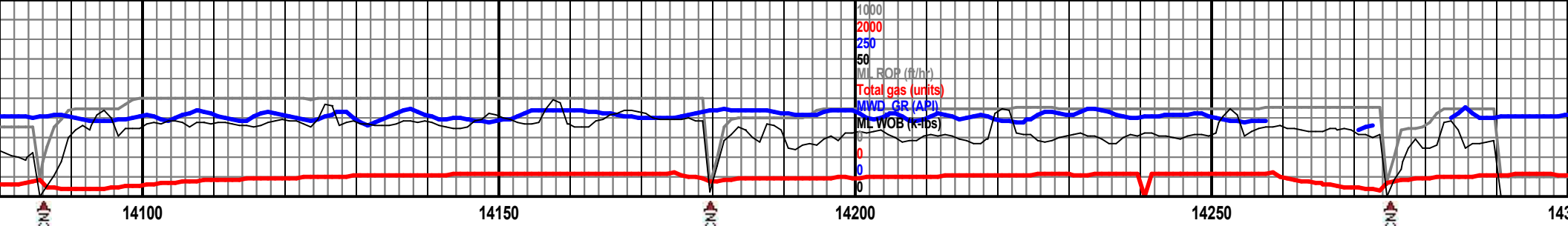




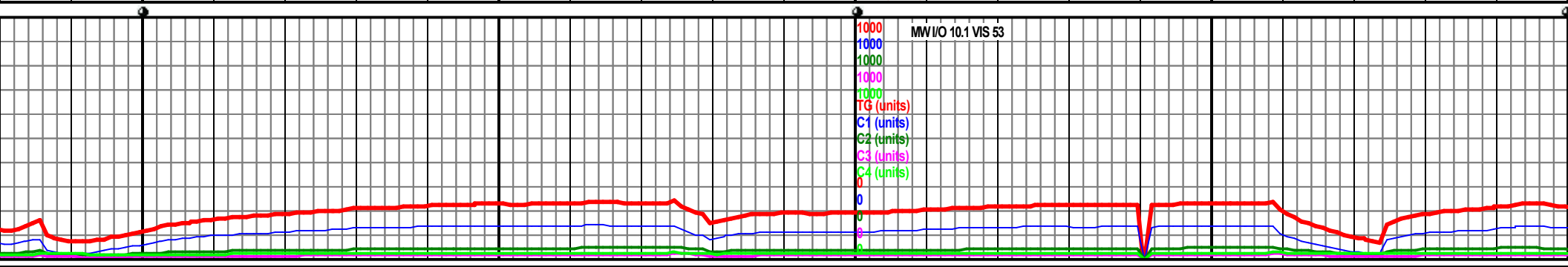
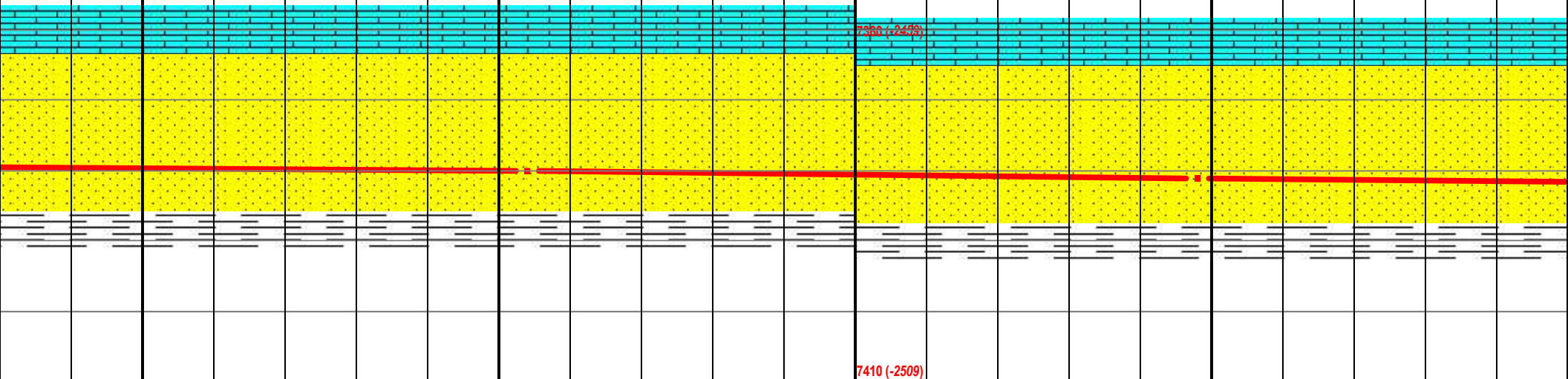


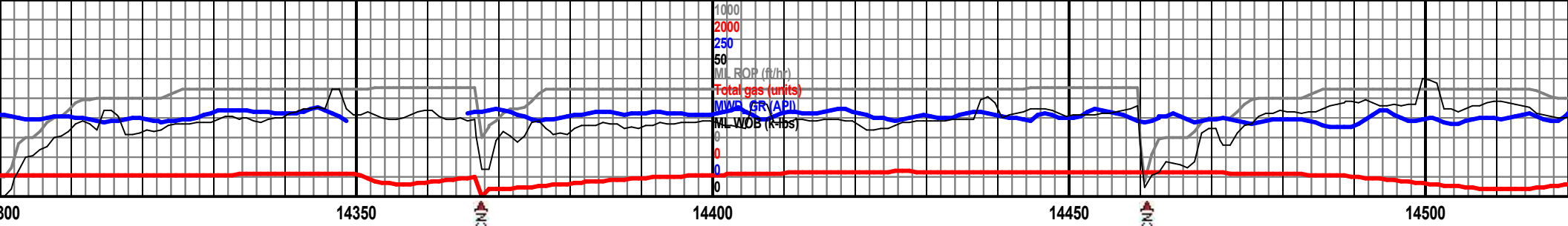
<p>MD 13873 TVD 7377.44 INC 89.45 AZ 92.59 VS 5337.28</p> <p>med lght gry, uf- f grn, pred sbang-sbrnd, nt, fr-well srted, qtz aren, pred grn sprt w/occ com slt/cly mtrx, frble-sl hd, est 10-12% evn grn pri fluor, nr evn stn, fst bri fst grnish thn slw rad strms, spty mod bri grn res</p>		<p>MD 13966 TVD 7378.51 INC 89.23 AZ 92.14 VS 5430.2</p> <p>SS: (100%) med lght gry, uf- f grn, pred sbang-sbrnd, rr calc cmnt, fr-well srted, qtz aren, pred grn sprt w/occ mtrx sprt, com slt/cly mtrx, frble-sl hd, est 10-12% ingrnl por, evn grn pri fluor, nr evn stn, fst bri fst grnish blu cuts w/ thn slw rad strms, spty mod bri grn res rng fl, tr SH</p>	<p>7310 TVD (-2409 SS)</p>	<p>MD 14060 TVD 7379.42 INC 89.66 AZ 92.56 VS 5524.11</p> <p>SS: (100%) med lght gry, uf- f grn, sbang-sbrnd, rr calc cmnt, fr-w pred grn sprt w/occ mtrx sprt, c frble-sl hd, est 10-12% ingrnl po nr evn stn, fst bri fst grnish blu strms, spty mod bri grn res</p>
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n, pred ell srted, qtz aren, com slt/cly mtrx, r, evn grn pri fluor, cuts w/ thn slw rad ng fl, tr pyr/marc	MD 14154 TVD 7380.13 INC 89.48 AZ 92.52 VS 5618.02 SS: (100%) med lght gry, occ sl brnish ip, uf-f grn, sbang-sbrnd grns, rr calc cmnt, fr-well srted, qtz aren, pred grn sprt w/occ mtrx sprt, com slt/cly mtrx, frble-sl hd, est 10-15% ingrnl por, evn grn pri fluor, nr evn stn, fst bri grnish blu cuts w/ thn slw rad strrms, sptty mod bri grn res rng fl, tr SH	7310 TVD (-2409 SS)	MD 14248 TVD 7381.14 INC 89.29 AZ 92.55 VS 5711.92 SS: (100%) med lght gry, uf-f grn, pred sbang-sbrnd, rr calc cmnt, fr-well srted, qtz aren, pred grn sprt w/occ mtrx sprt, com slt/cly mtrx, frble-sl hd, est 10-12% ingrnl por, evn grn pri fluor, nr evn stn, bri fst grnish blu cuts w/ thn slw rad strrms, sptty mod bri grn res rng fl, tr SH
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MD 14342 TVD 7381.95
INC 89.72 AZ 92.66
VS 5805.82

SS: (100%) med lght gry, uf- f grn, sbang rr sbrnd, occ
calc cmnt, fr srting, qtz aren, pred grn sprt wocc mtrx
sprt, com silt/cly mtrx, frble-sl hd, est 10-12% ingrnl por,
evn grn pri fluor, nr evn stn, bri fst grnish blu cuts w/
thn slwrad strrms, sptty mod bri grn res rng fl

7310 TVD (-2409 SS)

MD 14435 TVD 7382.3
INC 89.85 AZ 92.21
VS 5898.73

SS: (100%) med lght gry, uf- f grn, pred sbang-sbrnd,
rr calc cmnt, fr-well srtd, qtz aren, pred grn sprt wocc
mtrx sprt, com silt/cly mtrx, frble-sl hd, est 10+% ingrnl
por, evn dul grn pri fluor, nr evn stn, bri fst grnish blu
cuts w/ thn slwrad strrms, sptty mod thck sl bri grn
res rng fl

7360 (-2459)

Ft. Hays LS

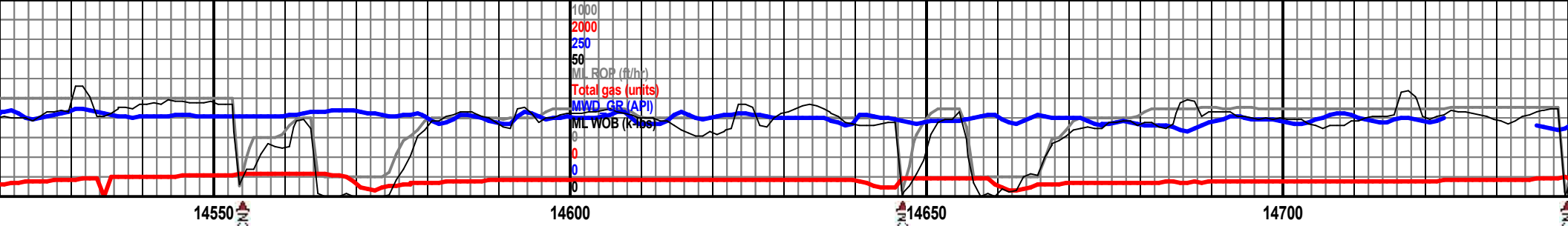
Codell SS

Carlile SH

7410 (-2509)

MW I/O 10.1 VIS 53

1000
1000
1000
1000
1000
1000
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)



MD 14528 TVD 7382.56
INC 89.82 AZ 92.28
VS 5991.66

SS: (100%) med lght gry, uf-f grn, pred sbang-sbrnd, rr calc cmnt, fr-well srted, qtz aren, pred grn sprt wocc mtrx sprt, com slt/cly mtrx, frble-sl hd, est 10+% ingrn por, evn dul grn pri fluor, nr evn stn, bri fst grnish blu cuts w/ thn slw rad strms, sptty mod thck sl bri grn res rng fl, tr SH

7310 TVD (-2409 SS)

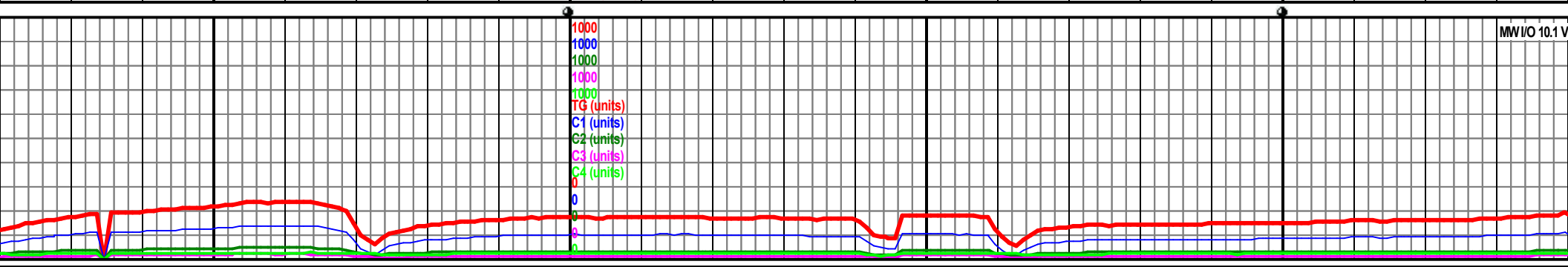
MD 14620 TVD 7382.36
INC 90.43 AZ 90.77
VS 6083.63

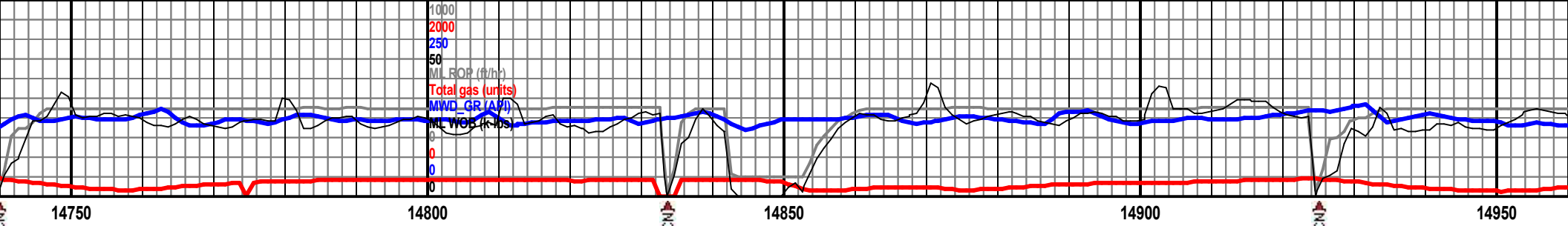
SS: (100%) med lght gry, uf-f grn, pred sbang-sbrnd, v rr calc cmnt, fr-well srted, qtz aren, pred grn sprt wocc mtrx sprt, com slt/cly mtrx, frble-sl hd, est ~10% ingrn por, evn dul grn pri fluor, nr evn stn, fst bri grn cuts w/ thn slw rad bluish strms, sptty mod thck sl bri grn res rng fl, rr SH

MD 14713 TVD 7382.27
INC 89.69 AZ 89.62
VS 6176.52

7360 (-2459)

7410 (-2509)





SS: (100%) med lght gry, uf-f grn, pred sbang-sbrnd, v rr calc cmnt, fr-well srted, qtz aren, pred grn sprt w/occ mtrx sprt, com silt/cly mtrx, frble-sl hd, est ~10% ingrnl por, evn dul grn pri fluor, nr evn stn, fst bri grn cuts w/ thn slw rad bluish strmr, sptty mod thck sl bri grn res rng fl, rr SH

7310 TVF MD 14806 TVD 7383.02
INC 89.38 AZ 90.6
VS 6269.62

SS: (100%) med lght gry, uf-f grn, pred sbang-sbrnd, rr calc cmnt, fr-well srted, qtz aren, pred grn sprt w/occ mtrx sprt, com silt/cly mtrx, frble-mod hd, est ~10% ingrnl por, evn dul grn pri fluor, nr evn stn, fst bri grn cuts w/ thn slw rad bluish strmr, sptty mod thck sl bri grn res rng fl, rr SH

MD 14900 TVD 7383.65
INC 89.85 AZ 91.58
VS 6363.6

SS: (100%) rr calc cm mtrx sprt por, evn g w/ thn slw res rng fl

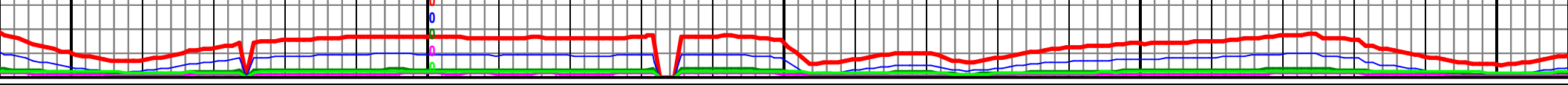
7360 (-2459)

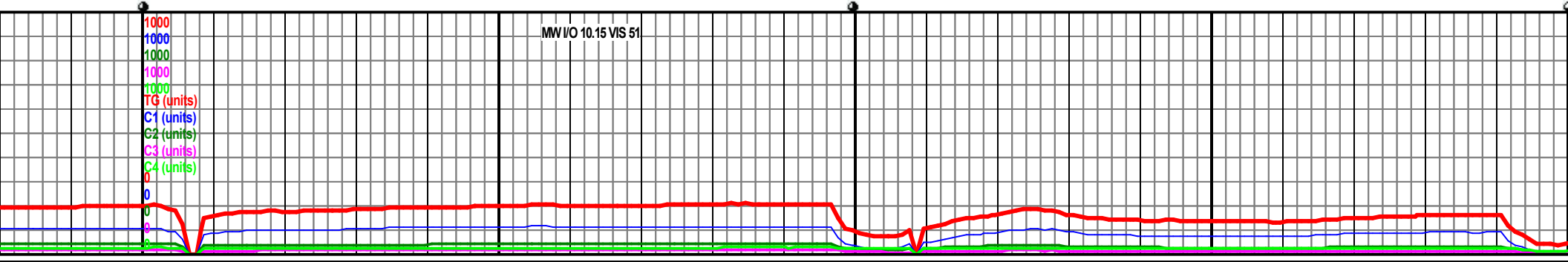
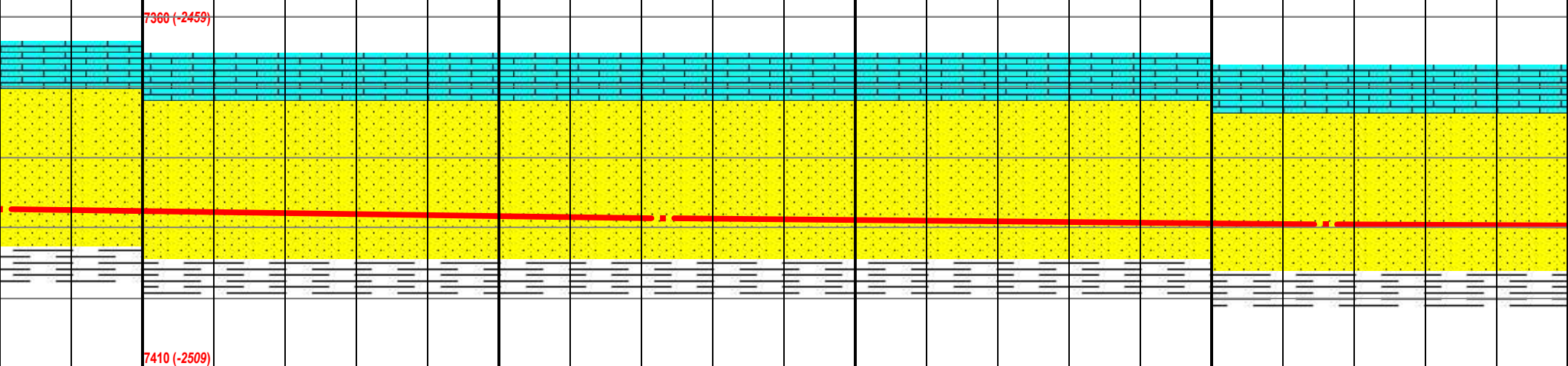
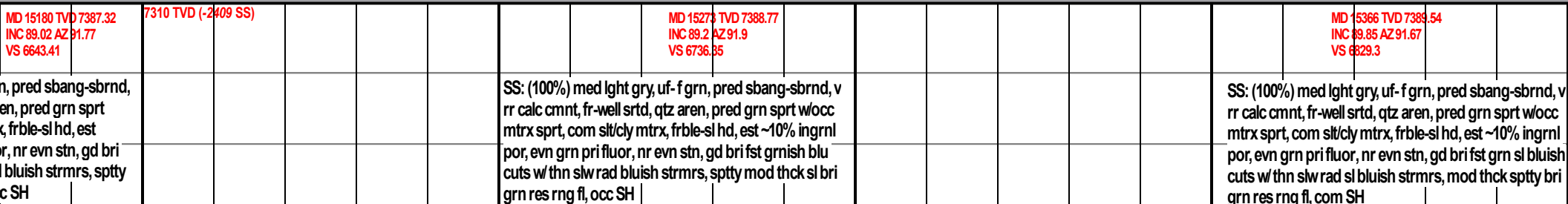
7410 (-2509)

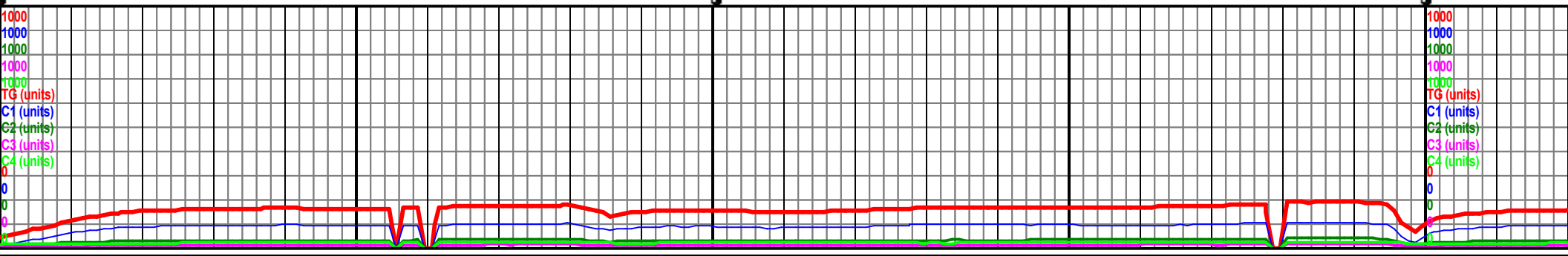
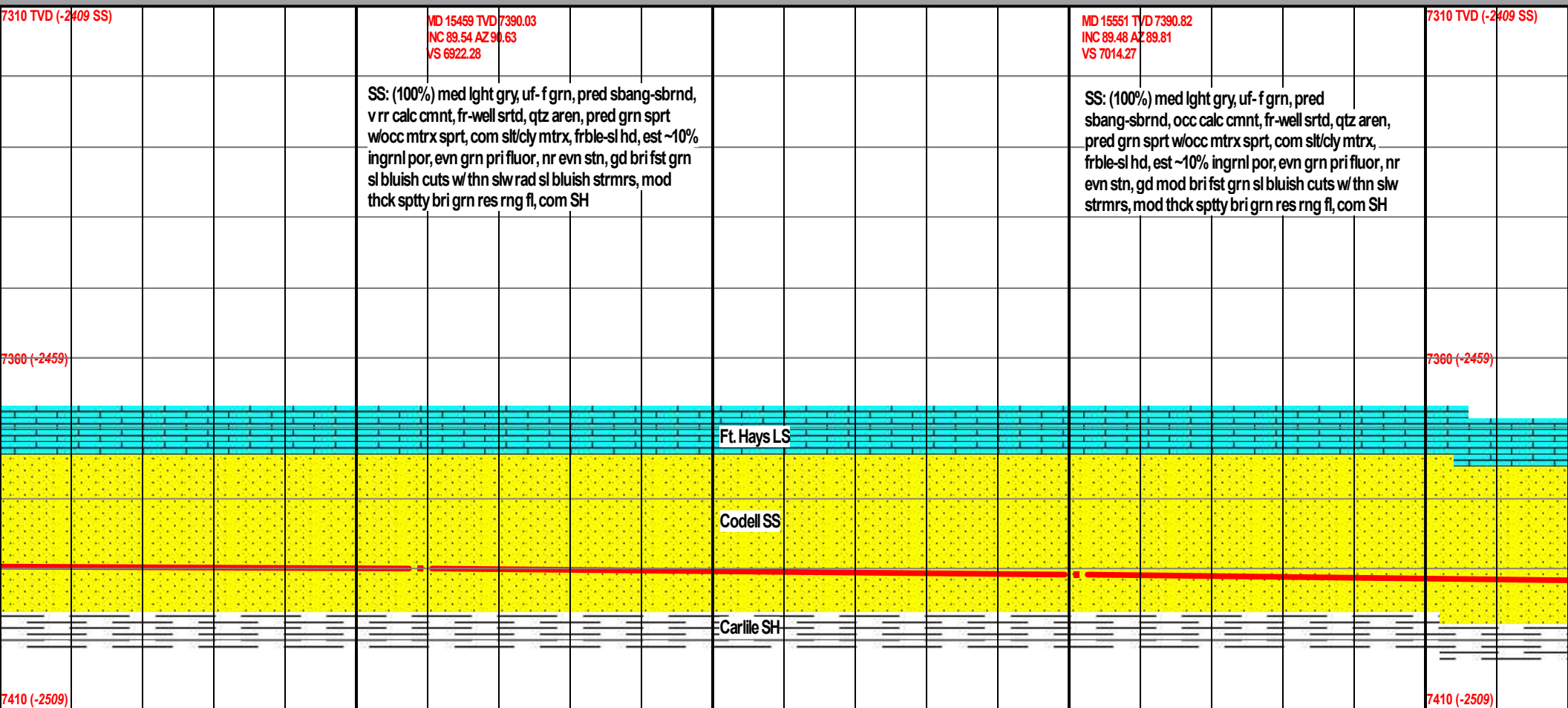
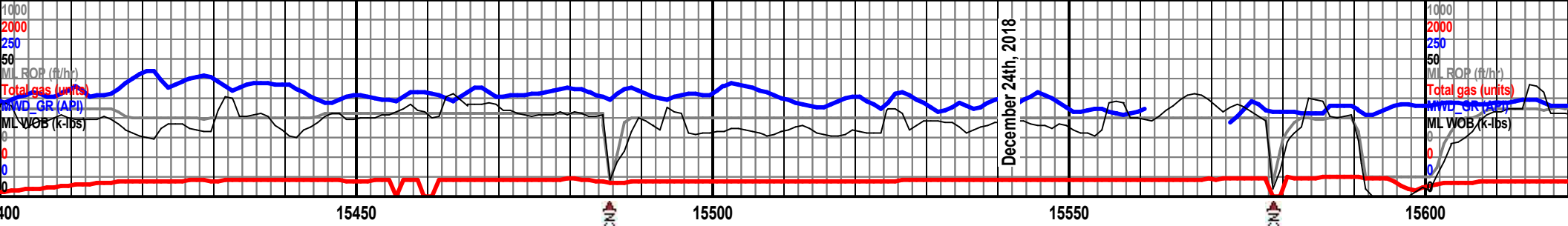
IS 52

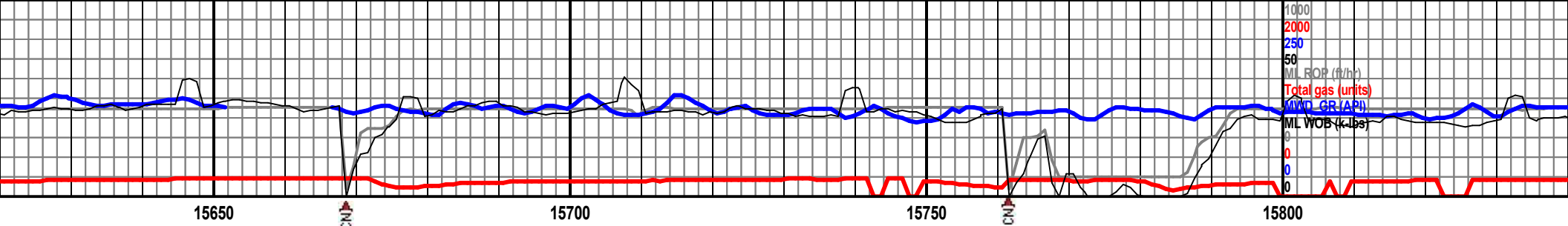
1000
1000
1000
1000
1000
1000
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)

MW/O 10.15









MD 15644 TVD 7391.92
INC 89.17 AZ 88.78
VS 7107.26

SS: (100%) med lght gry, uf- f grn, pred sbang-sbrnd,
occ calc cmnt, fr-well srtd, qtz aren, pred grn sprt
w/occ mtrx sprt, com slt/cly mtrx, frble-sl hd, est ~10%
ingrnl por, evn grn pri fluor, nr evn stn, gd mod bri fst
grn sl bluish cuts w/ thn slw strrms, mod thck sptty bri
grn res rng fl, rr SH

MD 15736 TVD 7393.4
INC 88.98 AZ 87.7
VS 7199.2

SS: (100%) med lght gry, uf- f grn, pred sbang-sbrnd,
occ calc cmnt, fr-well srtd, qtz aren, pred grn sprt
w/occ mtrx sprt, com slt/cly mtrx, frble-sl hd, est ~10%
ingrnl por, evn grn pri fluor, nr evn stn, gd mod bri fst
grn sl bluish cuts w/ thn slw strrms, mod thck sptty bri
grn res rng fl, rr SH

7310 TVD (-2409 SS)

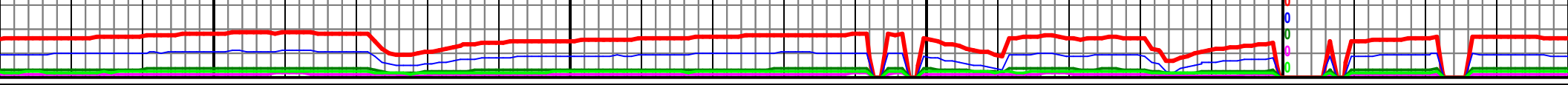
MD 15829 TVD
INC 89.17 AZ 8
VS 7292.09

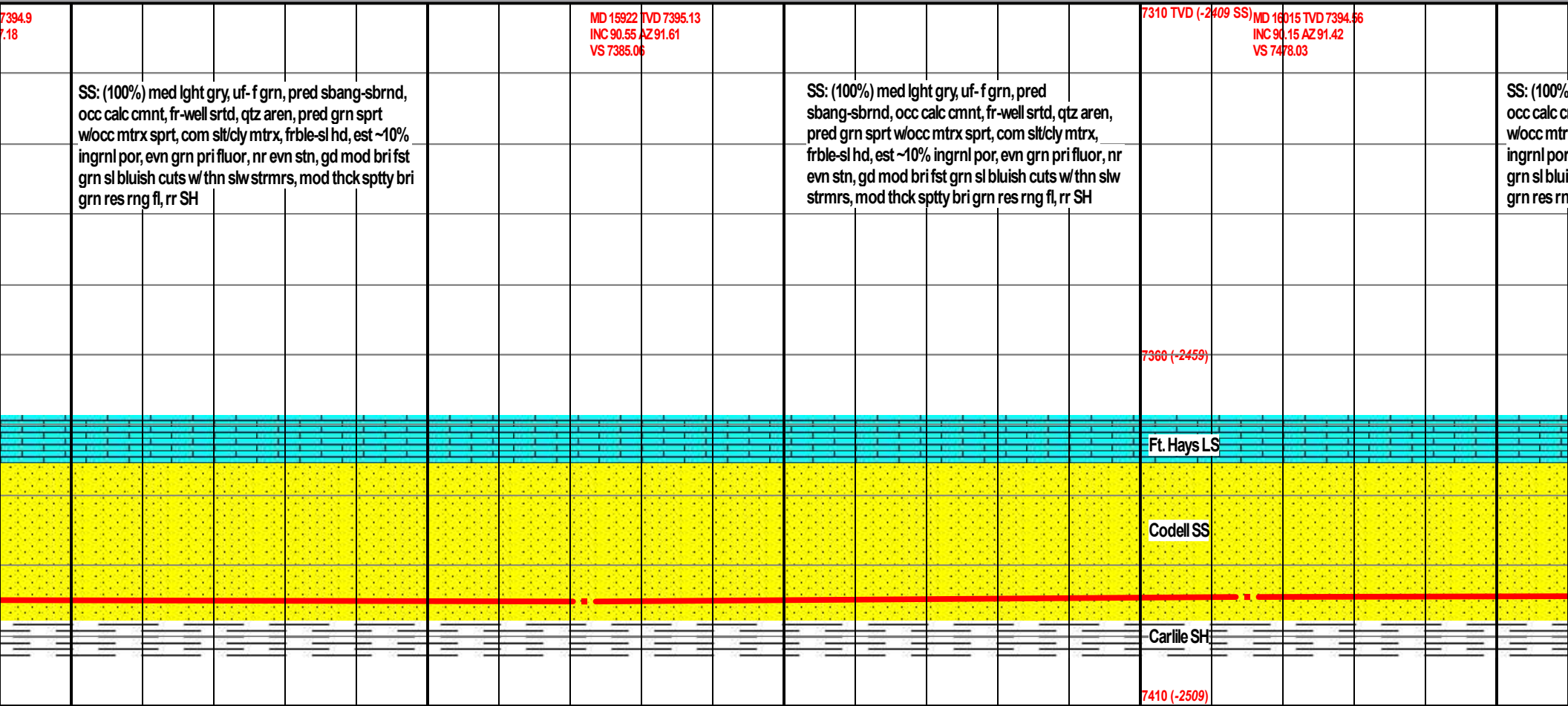
7360 (-2459)

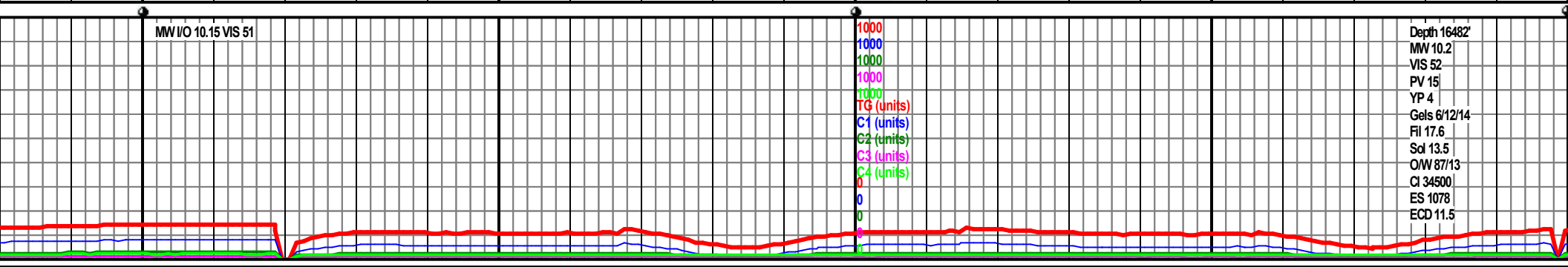
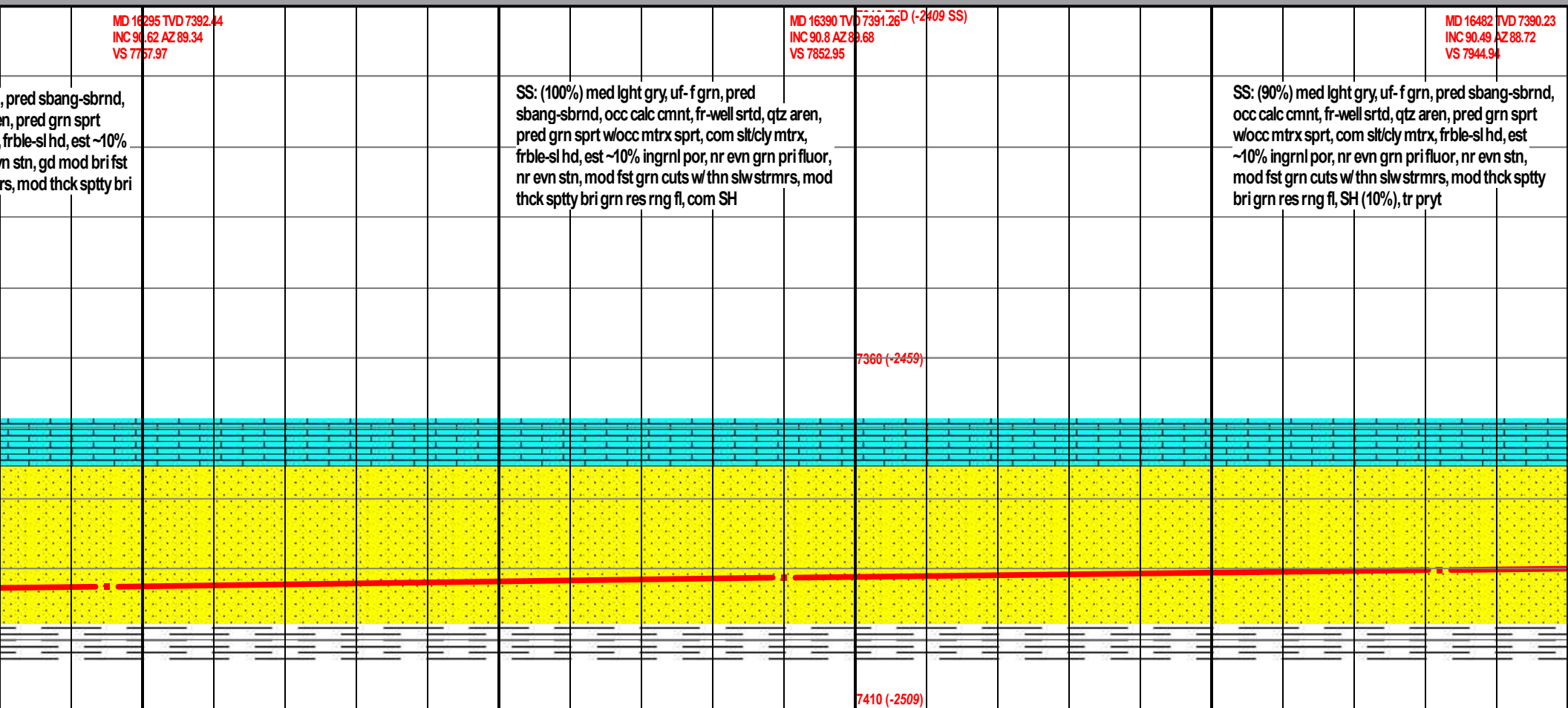
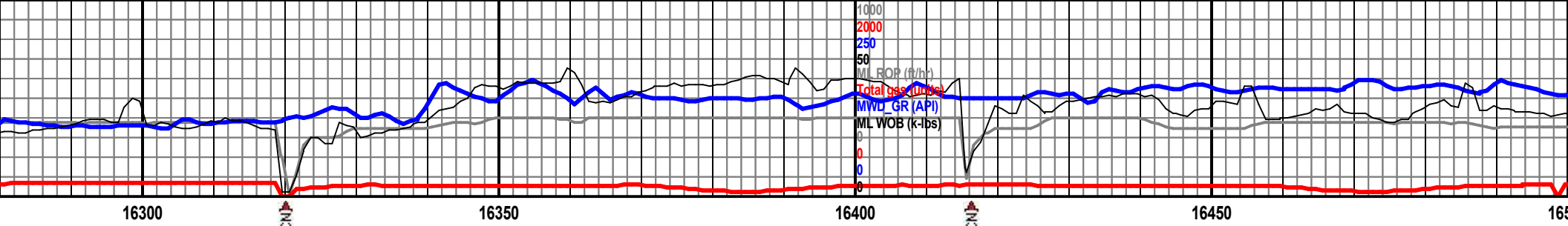
7410 (-2509)

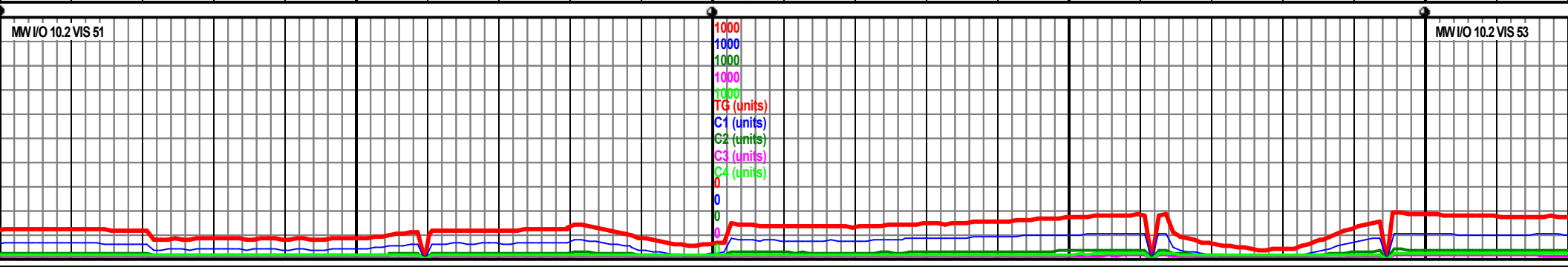
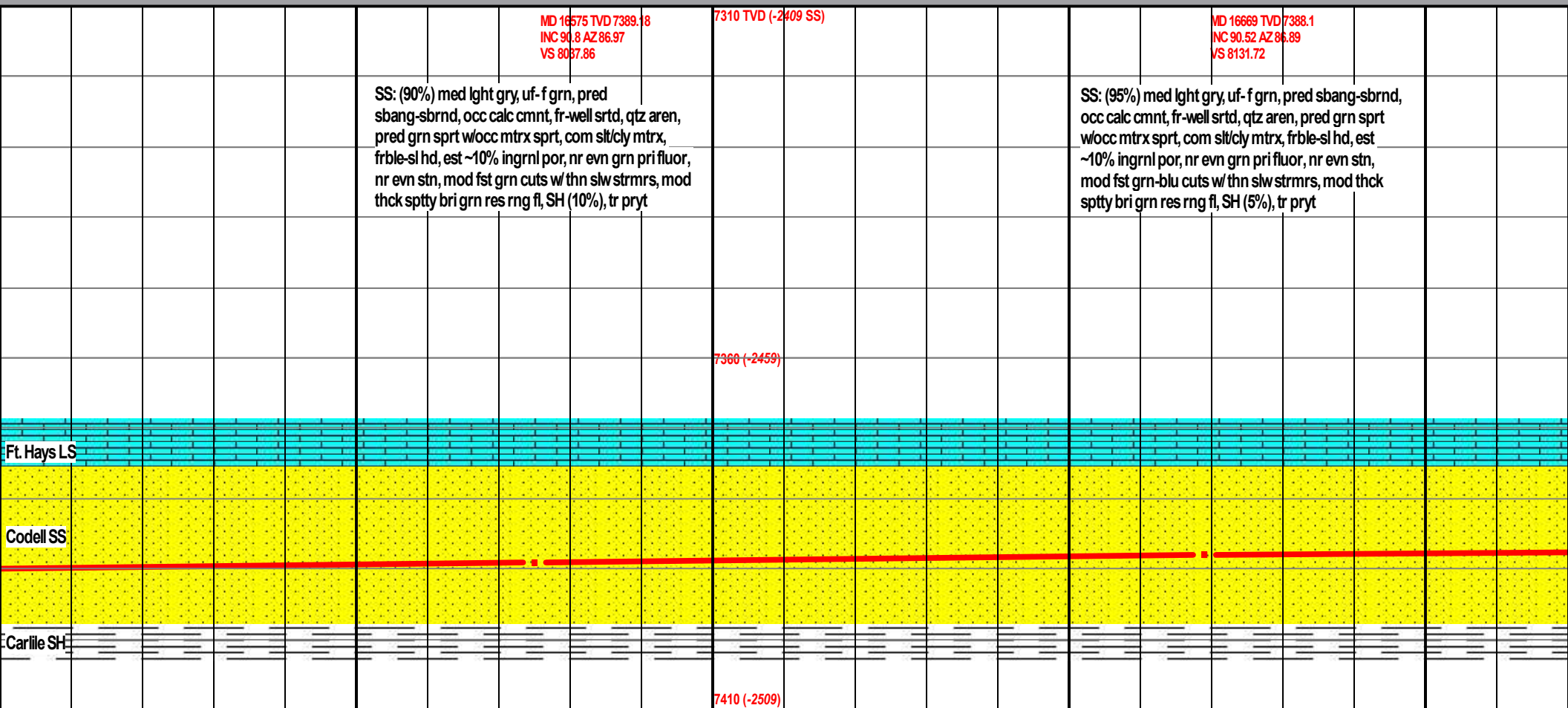
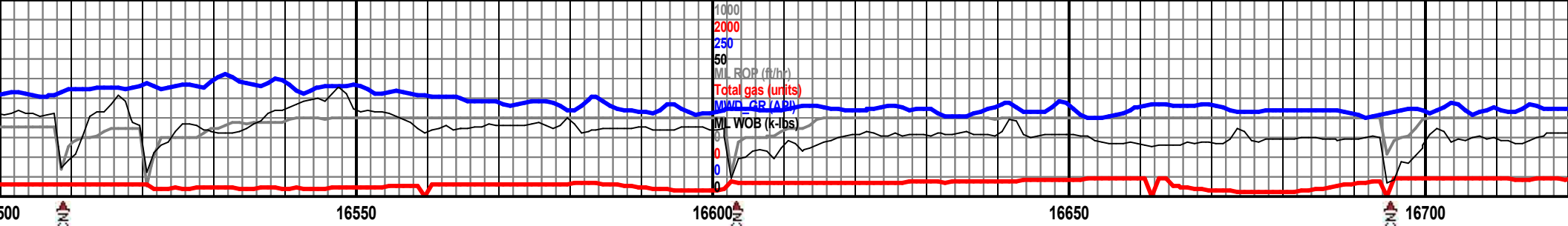
MW/O 10.15 VIS 51

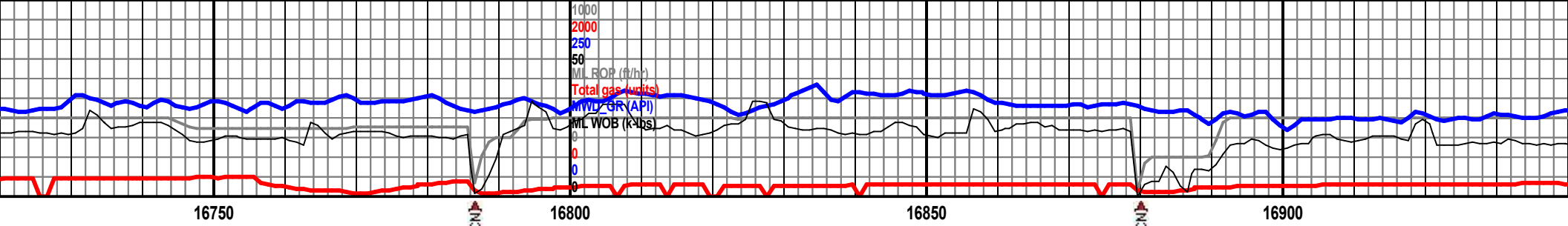
1000
1000
1000
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1000
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)











MD 16761 TVD 7387.41
INC 90.34 AZ 86.38
VS 8223.56

7310 TVD (-2409 SS)

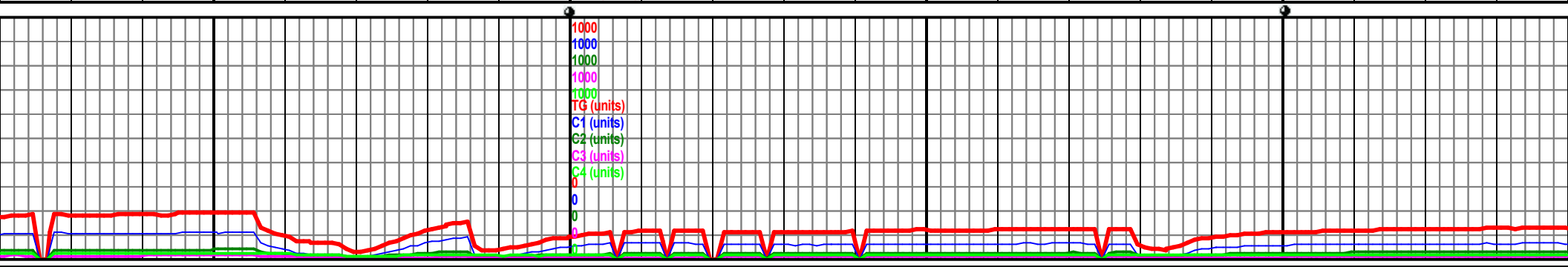
MD 16854 TVD 7386.98
INC 90.18 AZ 86.49
VS 8316.38

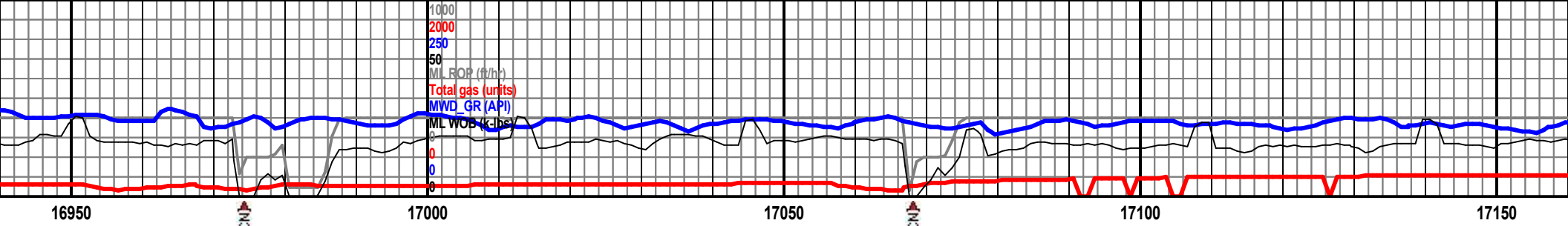
SS: (90%) med lght gry, uf-f grn, pred sbang-sbrnd, occ calc cmnt, fr-well srted, qtz aren, pred grn sprt w/occ mtrx sprt, com slt/cly mtrx, frble-sl hd, est ~10% ingrnl por, nr evn grn pri fluor, nr evn stn, mod fst grn-blu cuts w/ thn slw strms, mod thck sppty bri grn res rng fl, SH (10%), tr pryt

SS: (95%) med lght gry, uf-f grn, pred sbang-sbrnd, occ calc cmnt, fr-well srted, qtz aren, pred grn sprt w/occ mtrx sprt, com slt/cly mtrx, frble-sl hd, est ~10% ingrnl por, nr evn grn pri fluor, nr evn stn, mod fst grn cuts w/ thn slw strms, mod thck sppty bri grn res rng fl, SH (5%), tr pryt

7360 (-2459)

7410 (-2509)





MD 16947 TVD 7386.24
INC 90.74 AZ 86.72
VS 8409.21

SS: (100%) med lght gry, uf- f grn, pred sbang-sbrnd,
occ calc cmnt, fr-well srted, qtz aren, pred grn sprt
w/occ mtrx sprt, com slt/cly mtrx, frble-sl hd, est ~10%
ingrnl por, nr evn grn pri fluor, nr evn stn, mod fst grn
cuts w/ thn slw strms, mod thck sppty bri grn res rng
fl, occ SH, tr pry

7310 TVD (-2409 SS)

MD 17040 TVD 7385.11
INC 90.65 AZ 88.45
VS 8502.12

SS: (100%) med lght gry, uf- f grn, pred sbang-sbrnd,
occ calc cmnt, fr-well srted, qtz aren, pred grn sprt
w/occ mtrx sprt, com slt/cly mtrx, frble-sl hd, est ~10%
ingrnl por, nr evn grn pri fluor, nr evn stn, mod fst grn
cuts w/ thn slw strms, mod thck sppty bri grn res rng
fl, occ SH, tr pry

MD 17135 TVD 7384.6
INC 90.62 AZ 89.71
VS 8597.1

SS: (100%)
occ calc cr
w/occ mtr
ingrnl por,
cuts w/ thr
fl, occ SH,

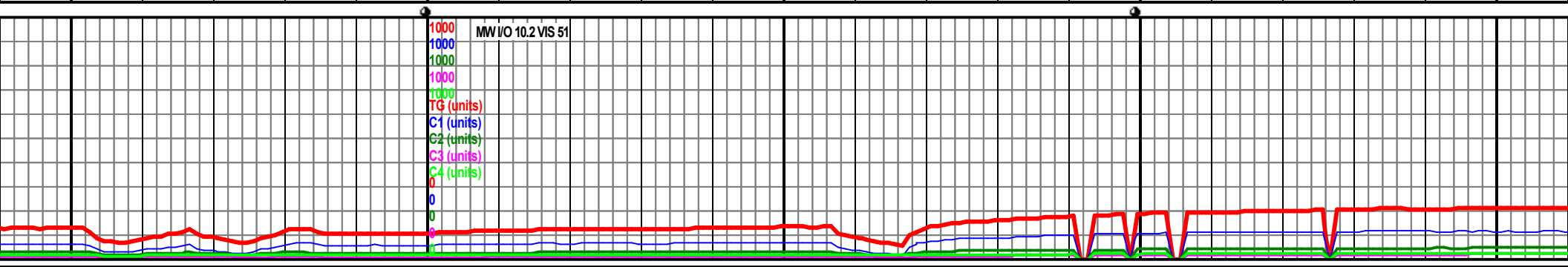
7360 (-2459)

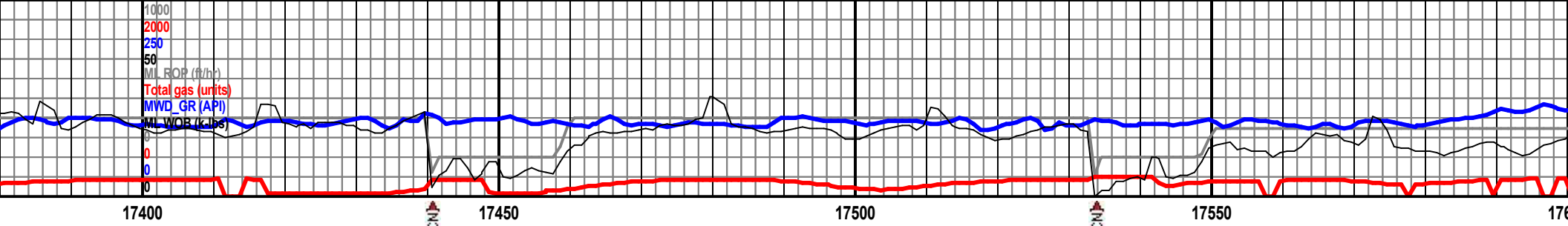
Ft. Hays LS

Codell SS

Carlile SH

7410 (-2509)



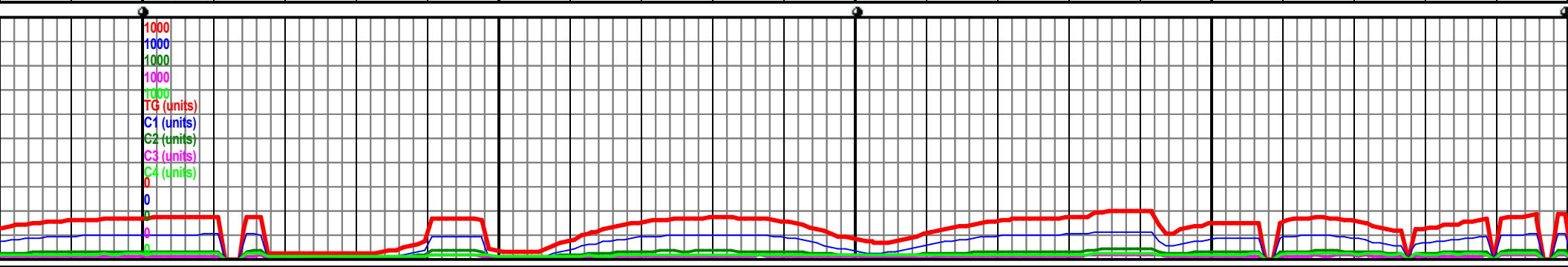
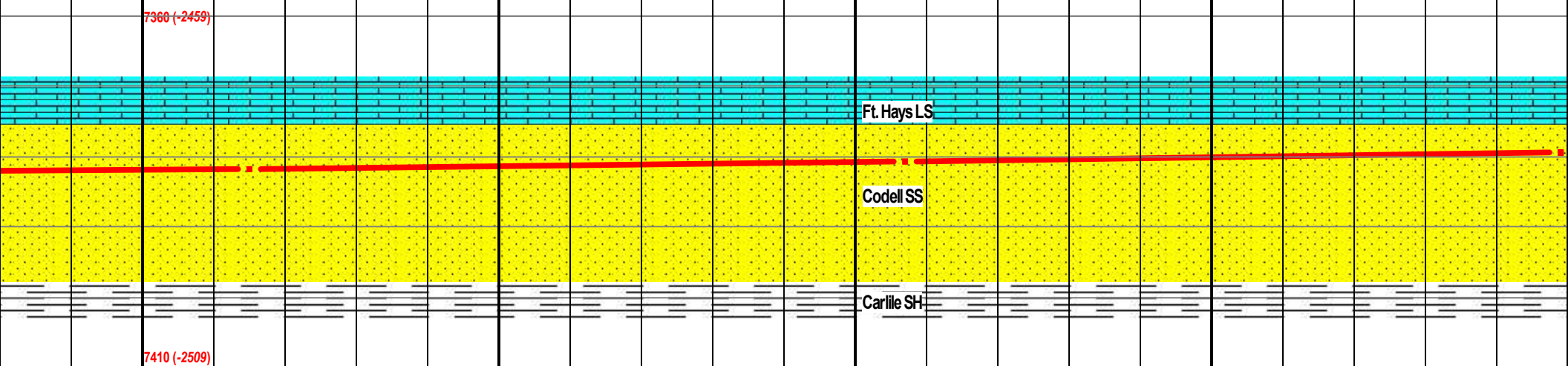


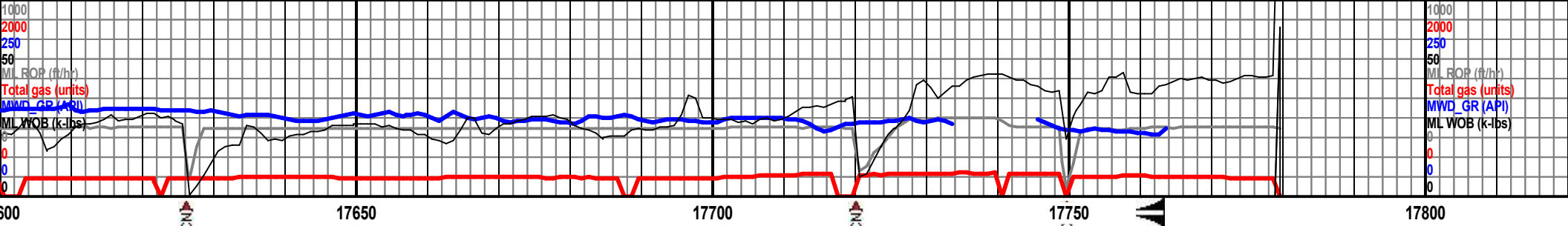
occ lose med grns
t w/occ mtrx sprt,
0% ingrnl por, nr
fst grn cuts w/ thn
res rng fl, com SH,

SS: (100%) med lght gry, uf- f grn rr lose med grns
(pos frc snd?), pred sbang-sbrnd, occ calc cmnt,
fr-well srtd, qtz aren, pred grn sprt w/occ mtrx sprt,
com slt/cly mtrx, frble-sl hd, est ~10% ingrnl por, nr evn
grn pri fluor, nr evn stn, mod fst grn cuts w/ thn slw
strmrs, mod thck sppty bri grn res rng fl, com SH, tr
pry

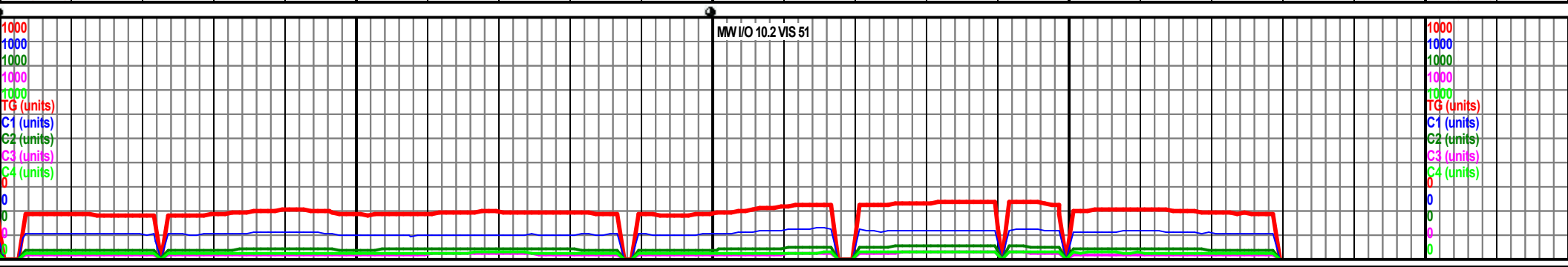
SS: (100%) med lght gry, uf- f grn rr lose med grns (pos
frc snd?), pred sbang-sbrnd, occ calc cmnt, fr-well
srtd, qtz aren, pred grn sprt w/occ mtrx sprt, com slt/cly
mtrx, frble-sl hd, est ~10% ingrnl por, nr evn grn pri
fluor, nr evn stn, mod fst grn cuts w/ thn slw strmrs,
mod thck sppty bri grn res rng fl, com SH, tr pry

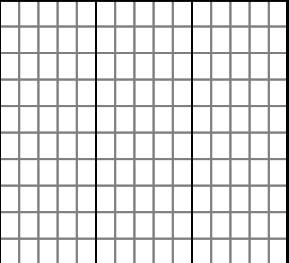
ns possible frac





MD 17599 TVD 7379.33 INC 90.74 AZ 92.38 VS 9061.02				MD 17692 TVD 7378.34 INC 90.49 AZ 94.54 VS 9153.85				MD 17756 TVD 7378.3 INC 89.57 AZ 93.44 VS 9217.68				MD 17780 TVD 7378.48 INC 89.57 AZ 93.44 VS 9241.63				7310 TVD (-2409 SS)			
				SS: (100%) med lght gry, uf- f grn rr lose med grns (pos frc snd?), pred sbang- sbrnd, occ calc cmnt, fr-well srtd, qtz aren, pred grn sprt wocc mtrx sprt, com slt/cly mtrx, frble-sl hd, est ~10% ingrnl por, nr evn grn pri fluor, nr evn stn, mod fst grn cuts w/ thn slw strms, mod thck sppty bri grn res rng fl, tr pry								Reached DMTD of 17,780' MD on 12/24/2018 @ Circ & Condition Hole. Pump high vis sweeps cement casing. BHA #2, 8 1/2", HCC, ATD505T, #5292246, 5x15 17780', drilled 15944' in 46 hrs., Rotary Steerab MM, XL45/RS; 27 rpg Production Casing Set @ 17,763' Formation tops picked by Andrew Krueger &							
7360 (-2459)												7360 (-2459) MD							
												Sharon Springs				7070'			
												Nio A Chalk				7117'			
												Nio A Chalk Base				7141'			
												Nio B Upper Marl				7273'			
												Nio B Chalk				7282'			
												Nio B Marl				7324'			
												Nio C Chalk				7385'			
												Nio C Marl				7463'			
												K Marker				7573'			
												Fort Hays				7688'			
												Codell				7802'			
												Target Heel				7737'			
												TOTAL DEPTH				17780'			
												Thank you from Goolsby Brothers							
7410 (-2509)												7410 (-2509)							





@ 10:21 hrs.

, TOOH, run casing,

, In @ 1836', out @
le, AutoTrak, MWD,

Brian Spitzmiller (GBA)

TVD SSD

6864'	-1963'
6901'	-2000'
6924'	-2023'
7020'	-2119'
7027'	-2126'
7055'	-2154'
7090'	-2189'
7130'	-2229'
7167'	-2266'
7190'	-2289'
7196'	-2295'
7195'	-2294'
7378	-2477'

rs & Associates

