

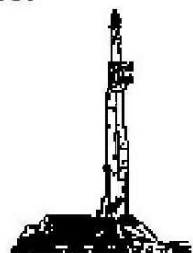
**GOOLSBY BROTHERS**  
and associates, inc.

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



Geological Wellsite  
Supervision

[www.goolsbybrothers.com](http://www.goolsbybrothers.com)



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

Well Name: Bost Farm 41C-8-L  
API: 051234770200  
Location: Section 7, T5N, R66W, Weld County, CO.  
License Number:  
Spud Date: November 28, 2018  
Surface Coordinates: SWNW T5N, R66W Sec 7, 1397' FNL & 941' FWL  
LAT 40.417701 LONG -104.829011  
Bottom Hole Coordinates: NENE T5N, R66W Sec. 8, 1199' FNL & 460' FEL (EST)  
Ground Elevation (ft): 4,881'  
Logged Interval (ft): 6,950' To: 17,718'  
Formation: Pierre Shales/Sands, Sharon Springs, Niobrara, Codell Sand (Target)  
Type of Drilling Fluid: FW Surface, OBM Curve & Lateral

Region: Wattenberg  
Drilling Completed: November 30, 2018  
K.B. Elevation (ft): 4,901'  
Total Depth (ft): 17,718' DMTD

Printed by HorizontalLog from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

**OPERATOR**

Company: SRC Energy Inc.  
Address: 1675 Broadway, Suite 2600  
Denver, Colorado 80202  
(720) 616-4300

**GEOLOGIST**

Name: Larry Goolsby & Andrew Krueger  
Company: Goolsby Brothers & Assoc. (GBA), Inc. ([www.goolsbybrothers.com](http://www.goolsbybrothers.com))  
Address: 575 Union Blvd. Suite 208,  
Lakewood CO. 80228  
Tel 303-618-7736

## Logs

PULSE MWD GR from 1,840' - 17,702' MD

## Casing

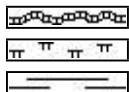
9 5/8" Surface Casing set @ 1,830' MD

5 1/2" Production Casing set @ 17,706' MD

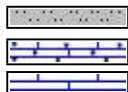
## Comments

- 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: Tom Jacaruso

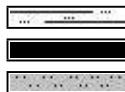
## ROCK TYPES



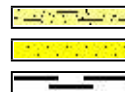
Bent  
Mrlst  
Shale



Sltst  
Carb chalk  
Chalk



Sltly sh  
Coal  
Sltst



Arg\_ss  
Ss  
Carb sh



Ls  
Sltly sh

## ACCESSORIES

### MINERAL

Anhy  
 Arggrn  
 Arg  
 Bent  
 Bit  
 Breclrag  
 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  
 Sltstgr  
 Ssstgr

### 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

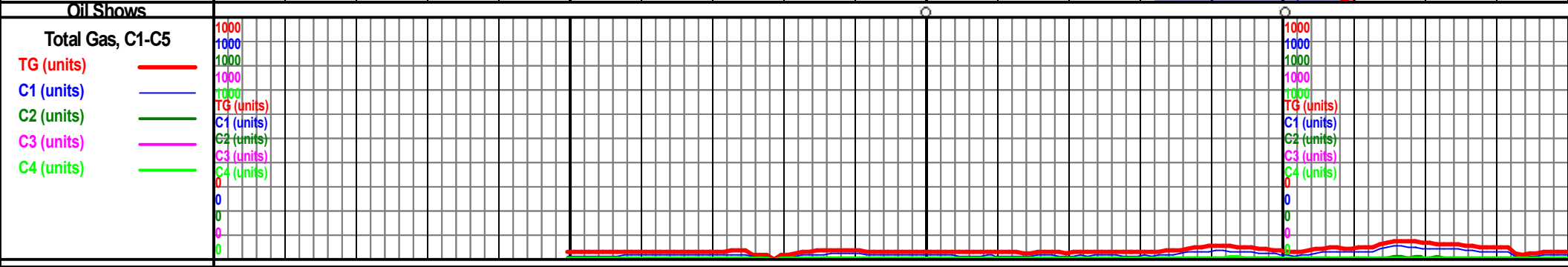
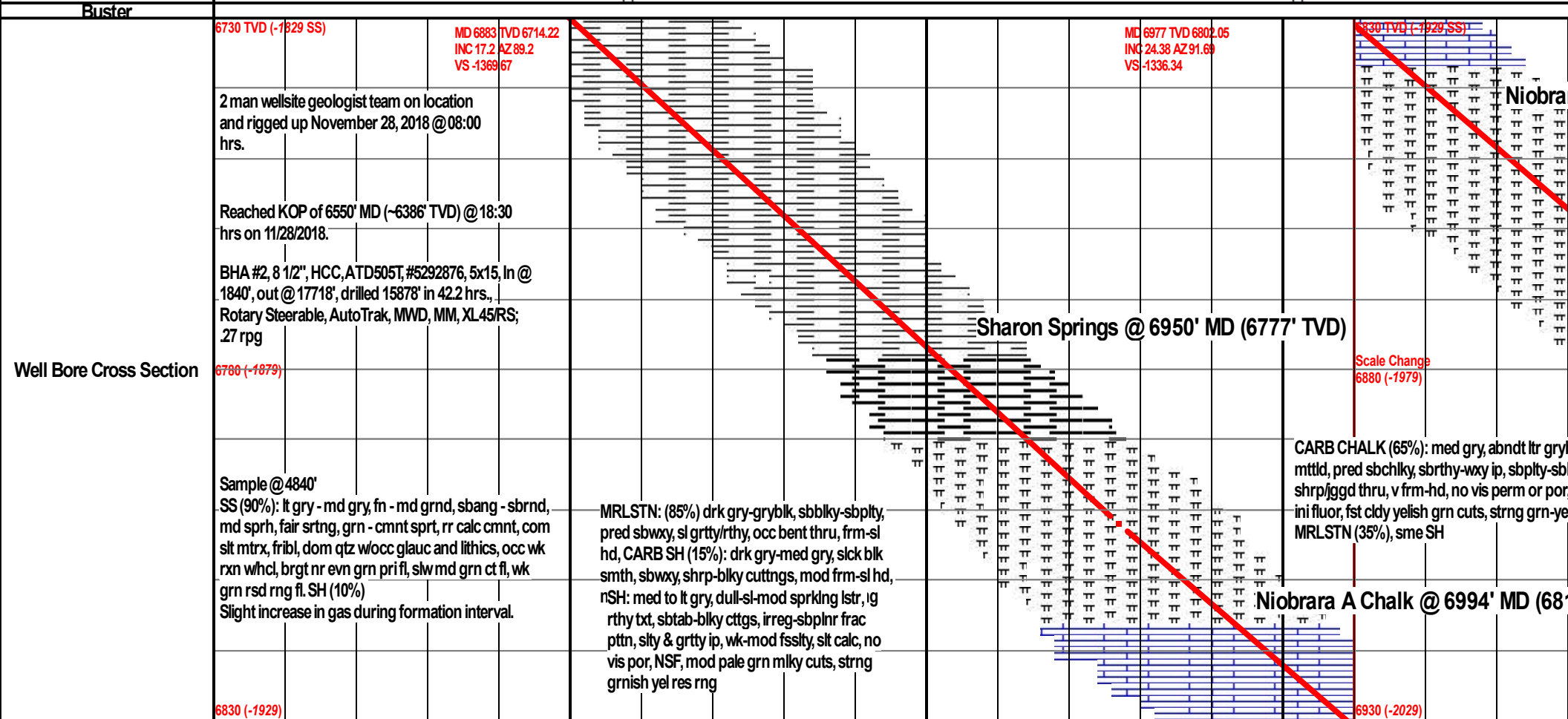
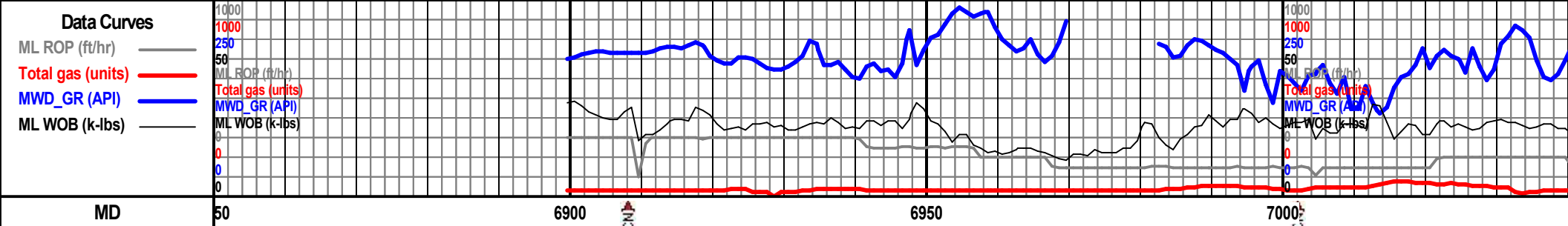
### INTERVALS

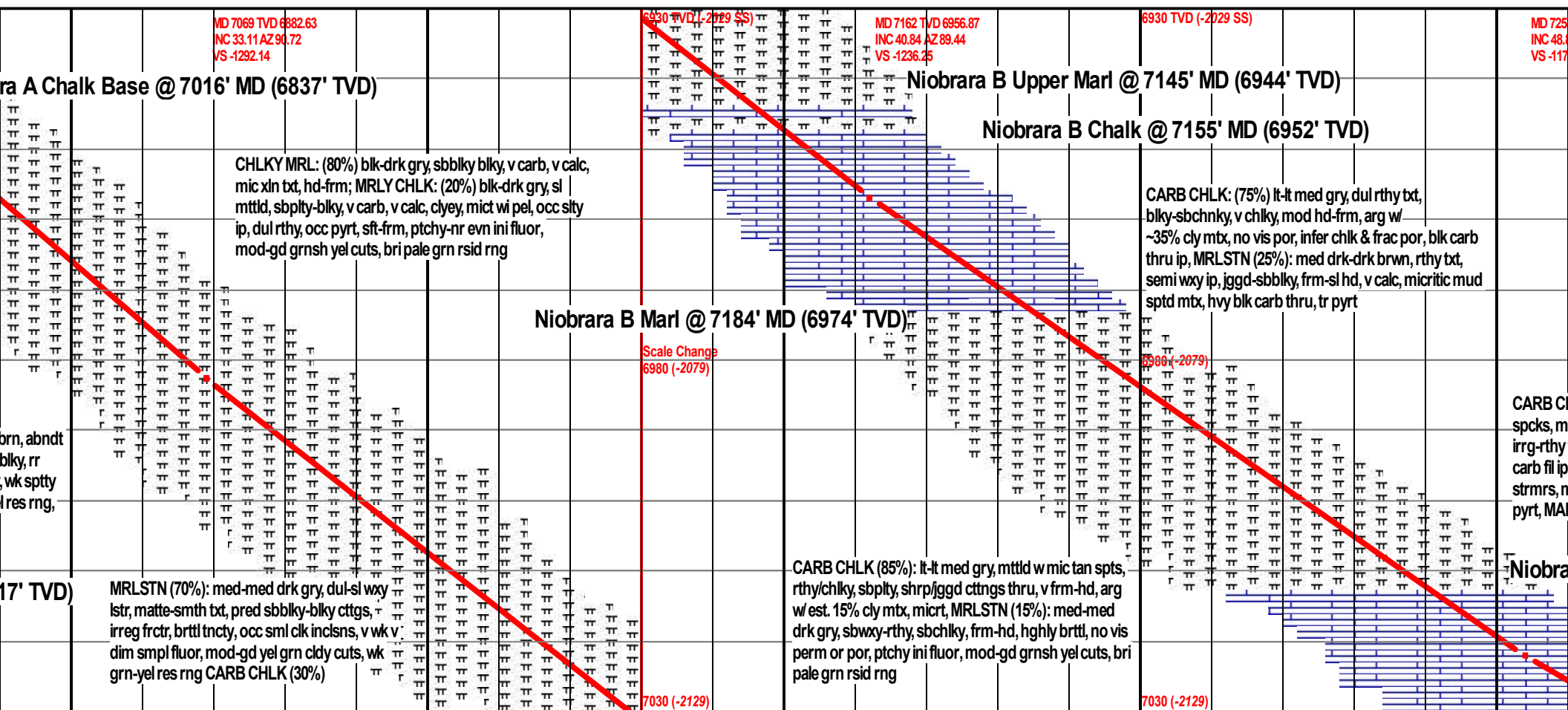
Core  
 Dst

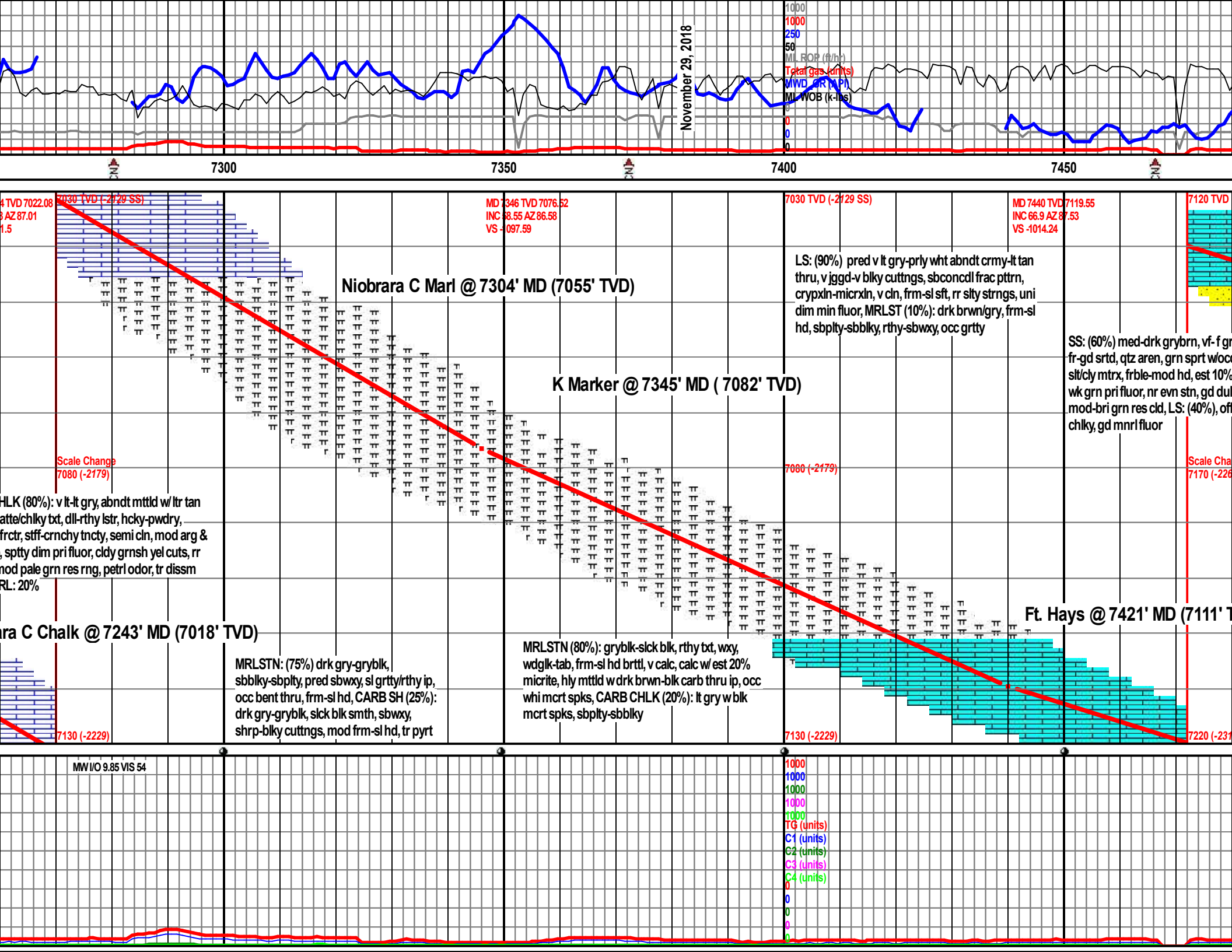
### EVENTS

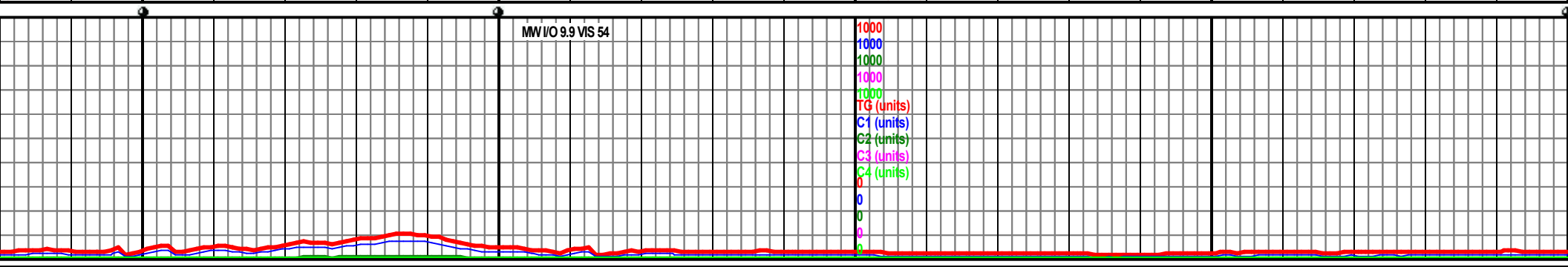
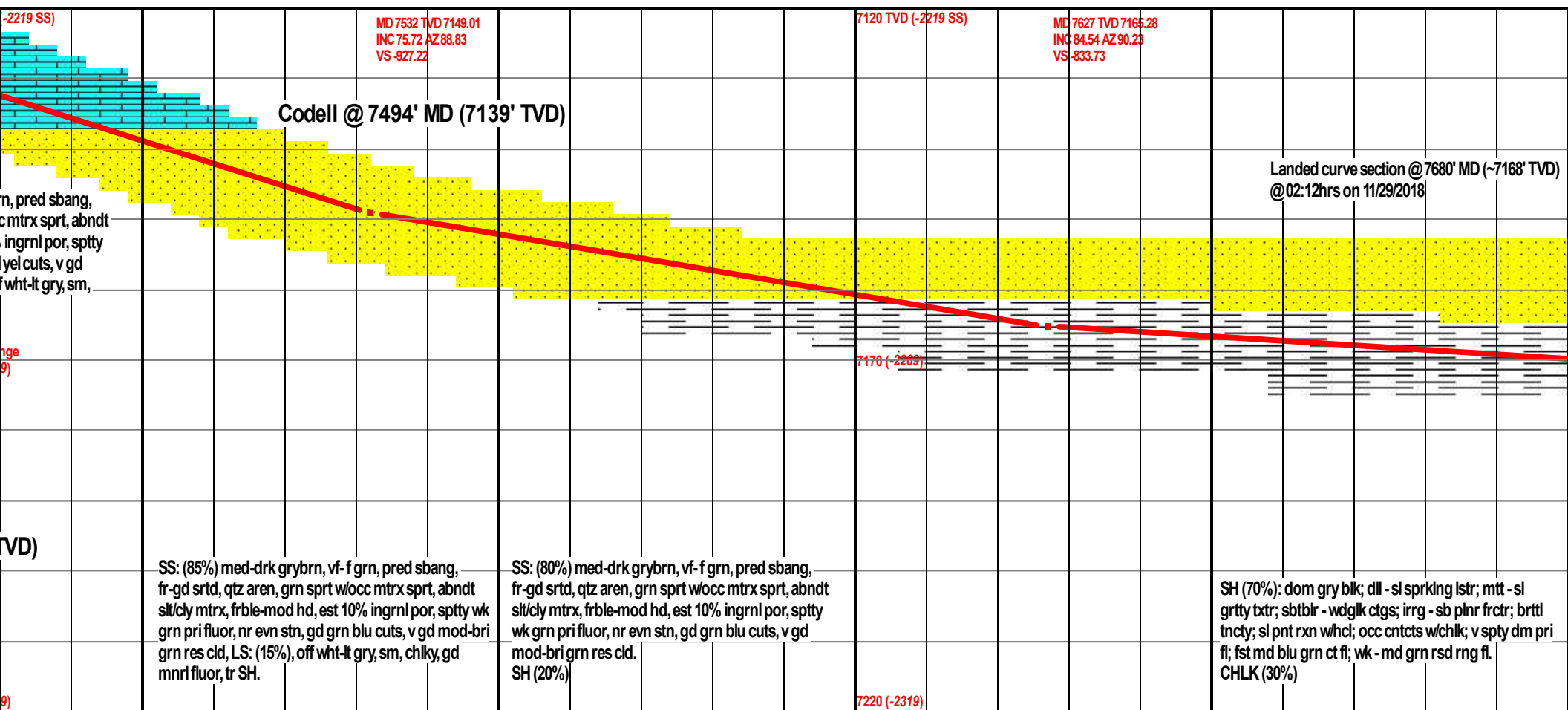
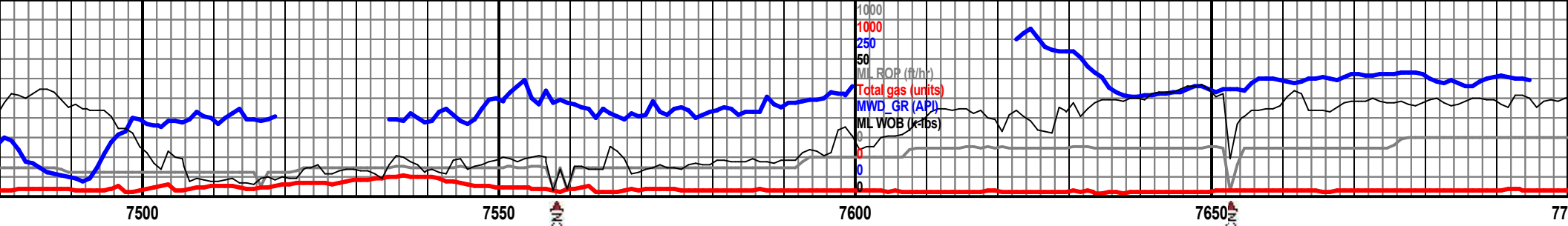
Casing shoe\_hzl  
 Trip\_point\_1  
 Off bottom  
 conn

Survey(mwd)  
 Survey(red)  
 bit





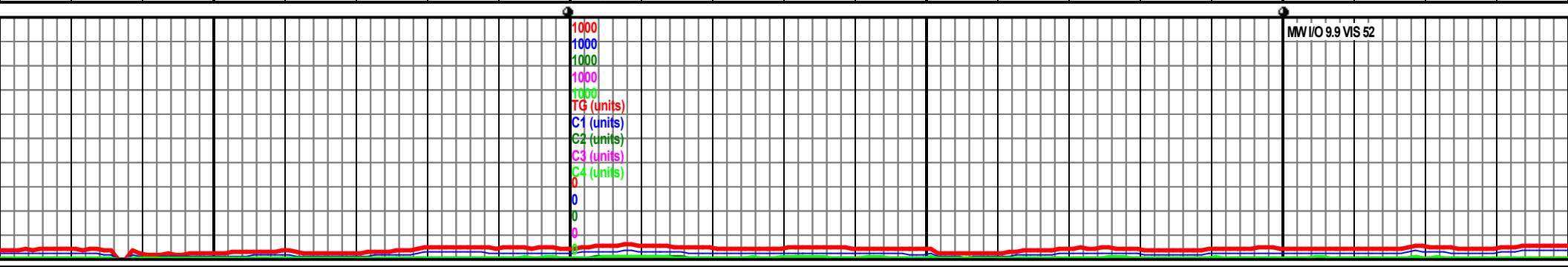
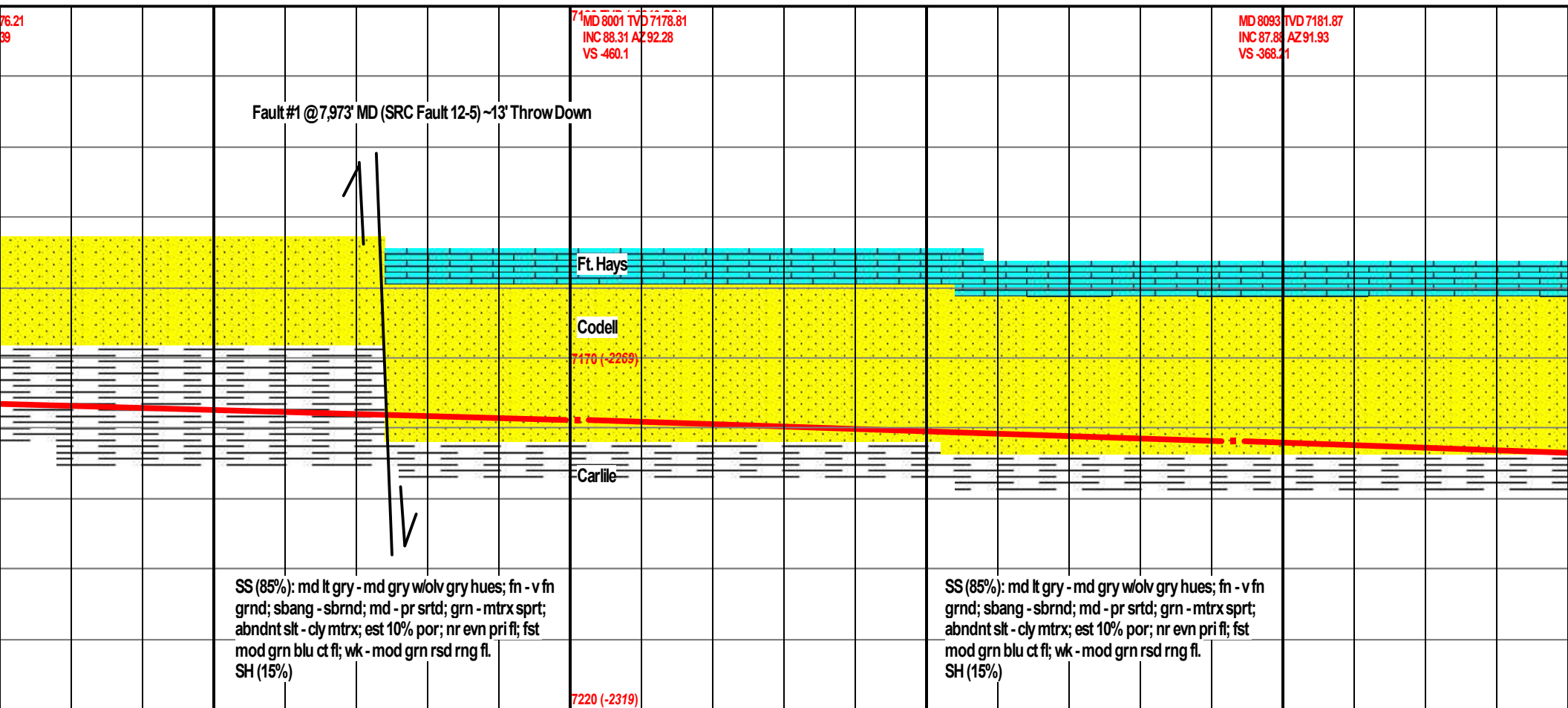
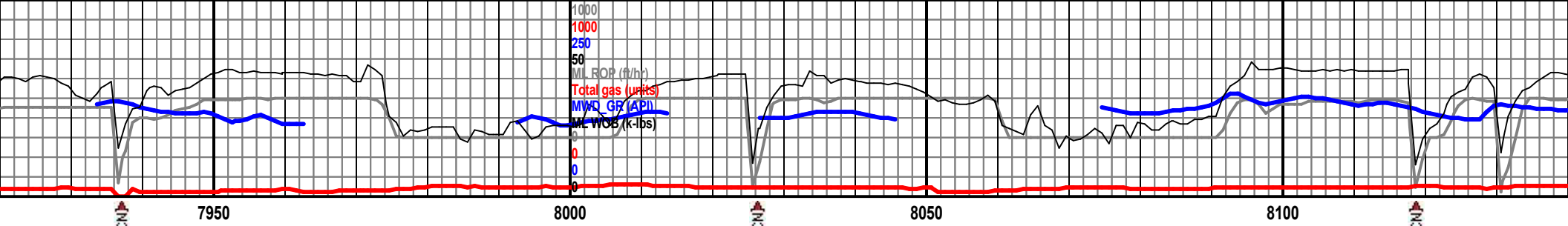


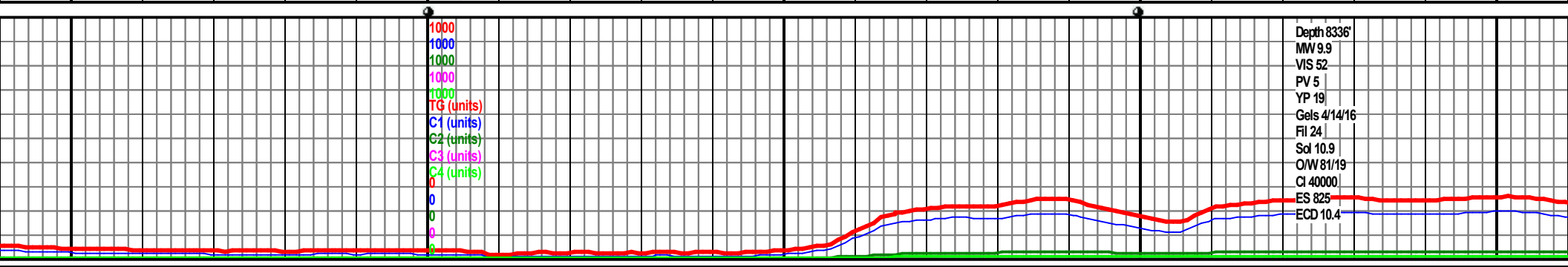
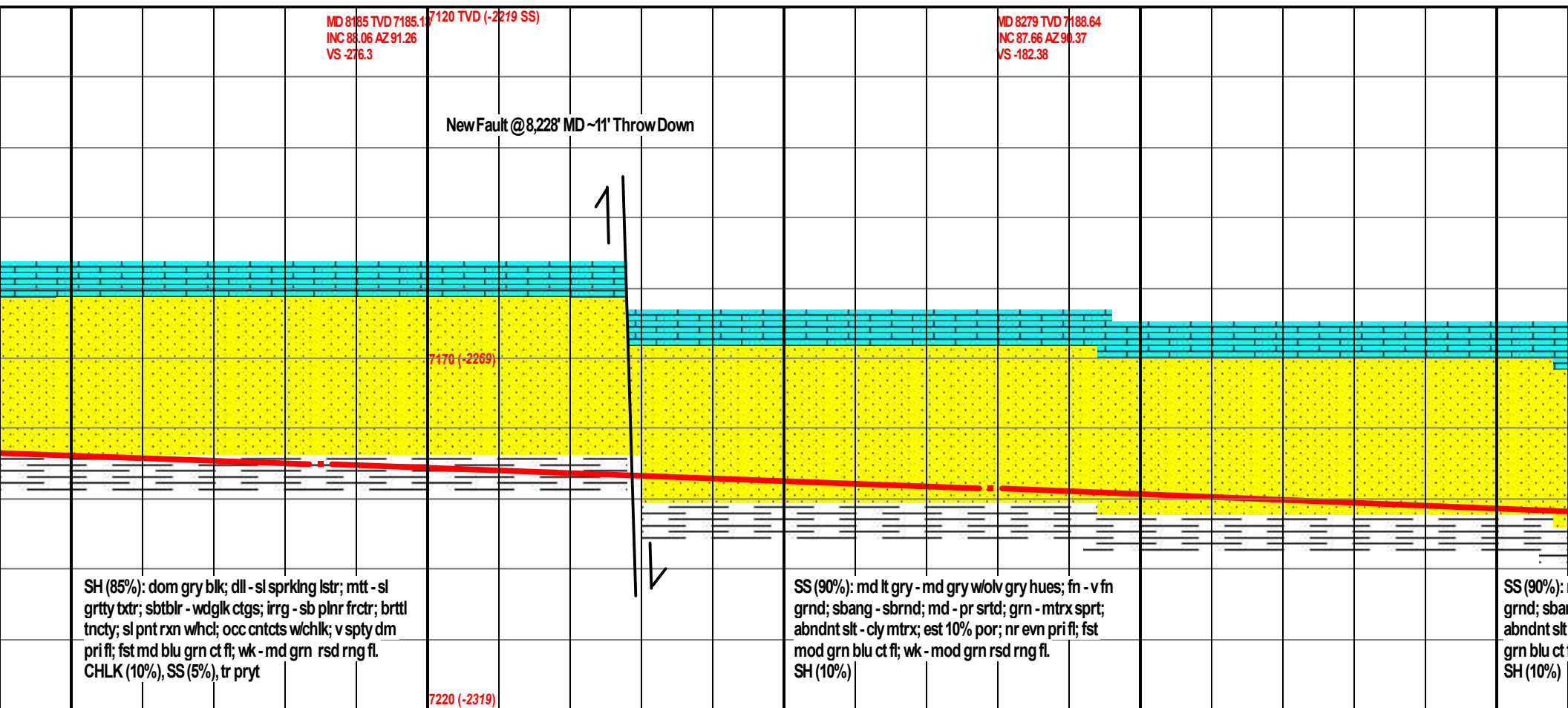
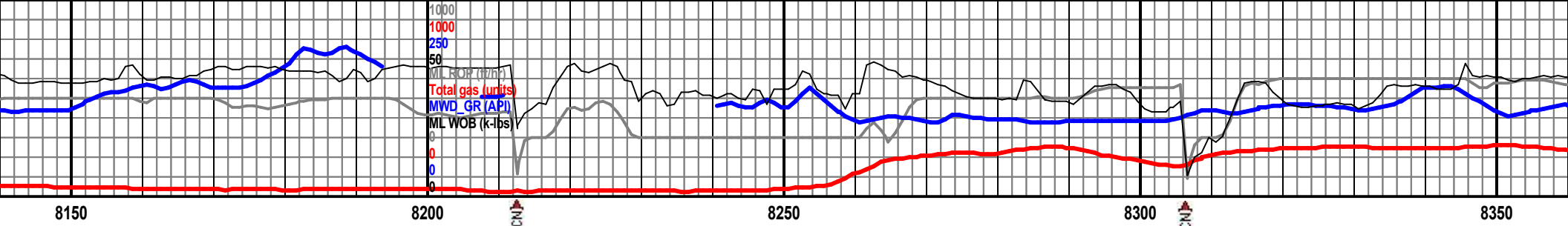


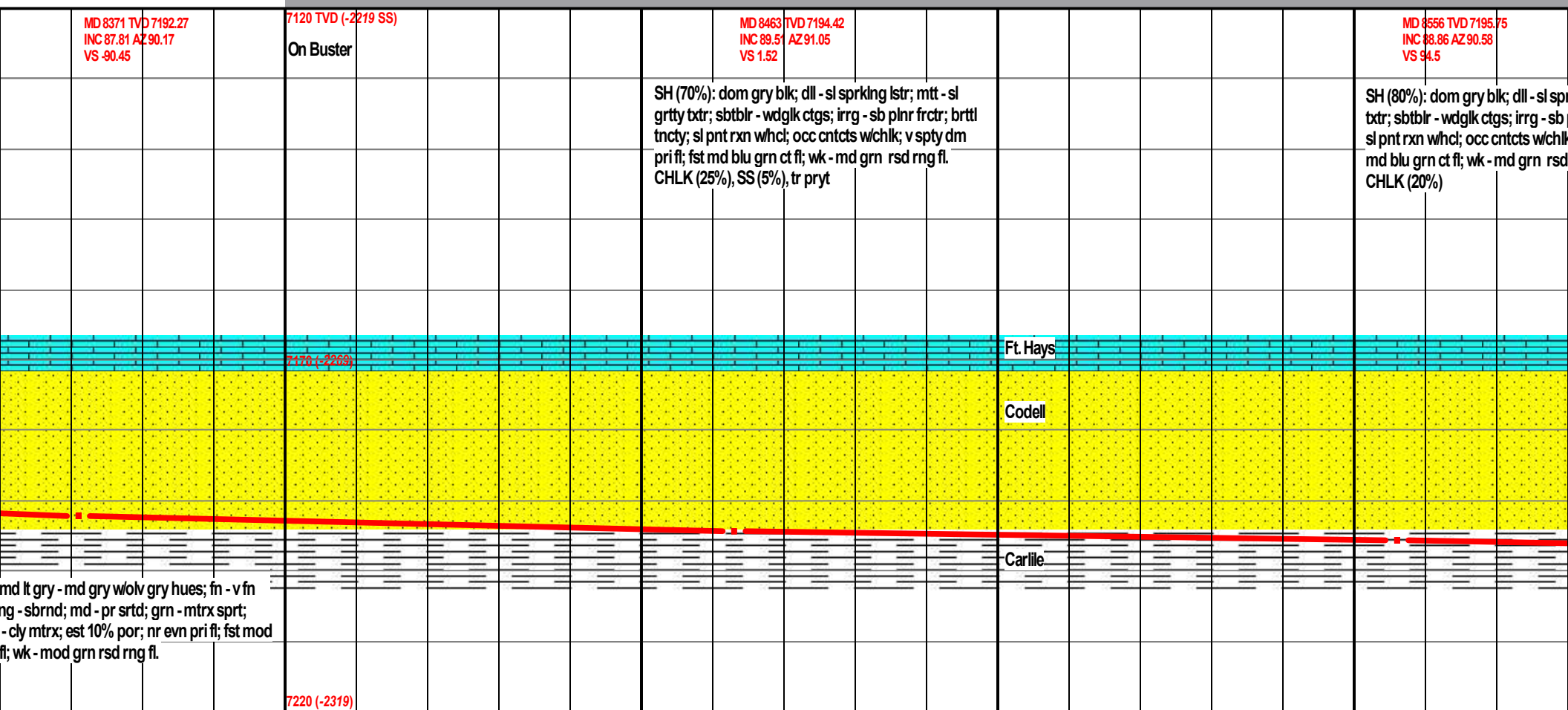


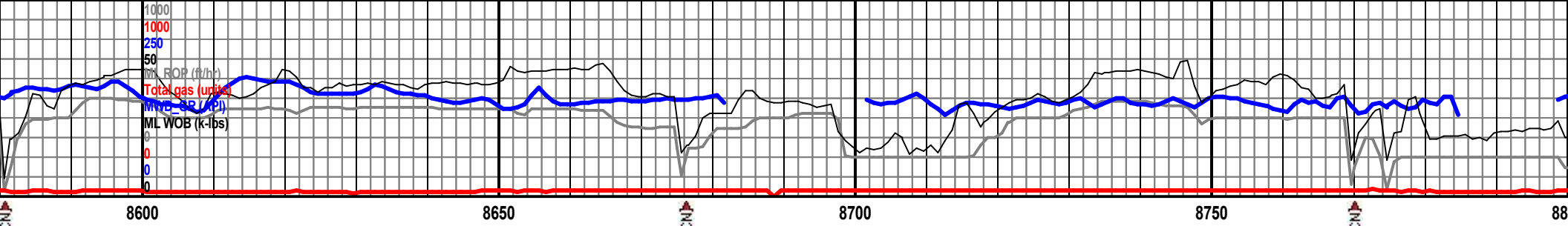




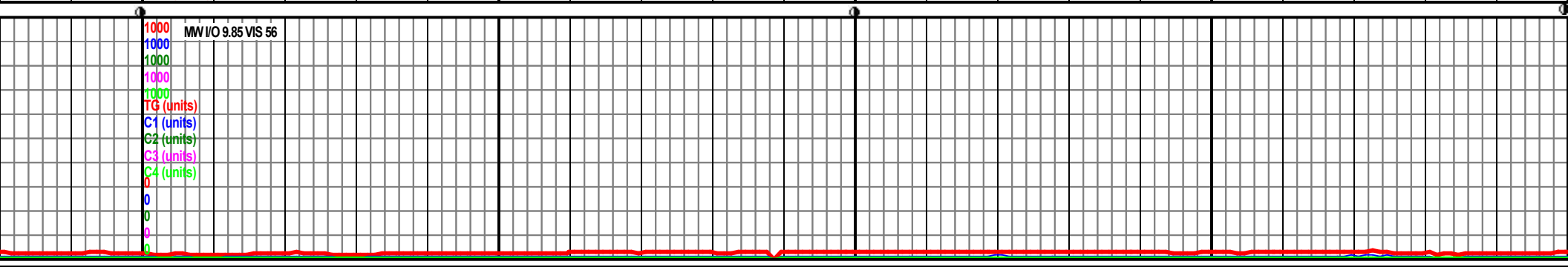
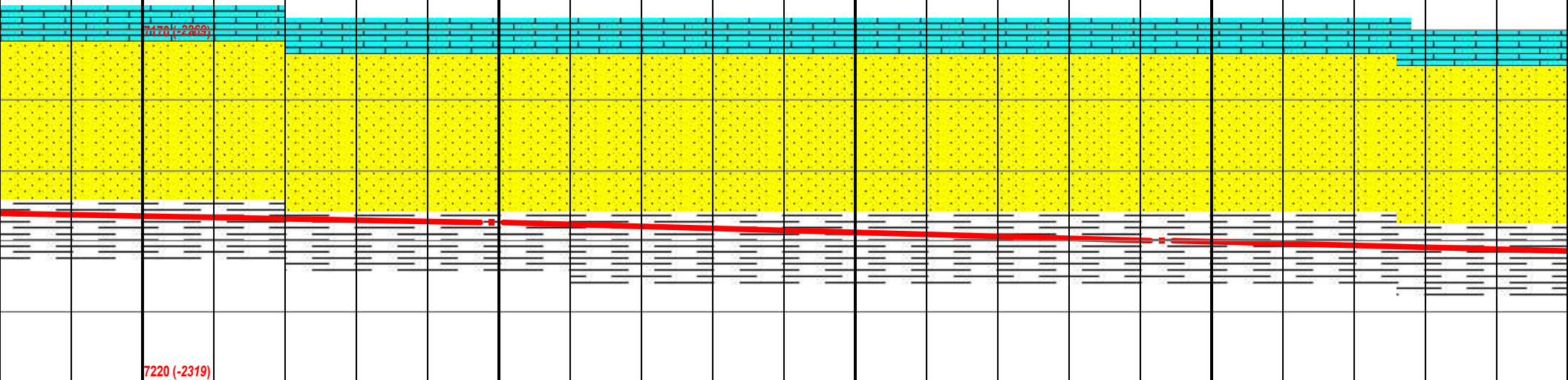


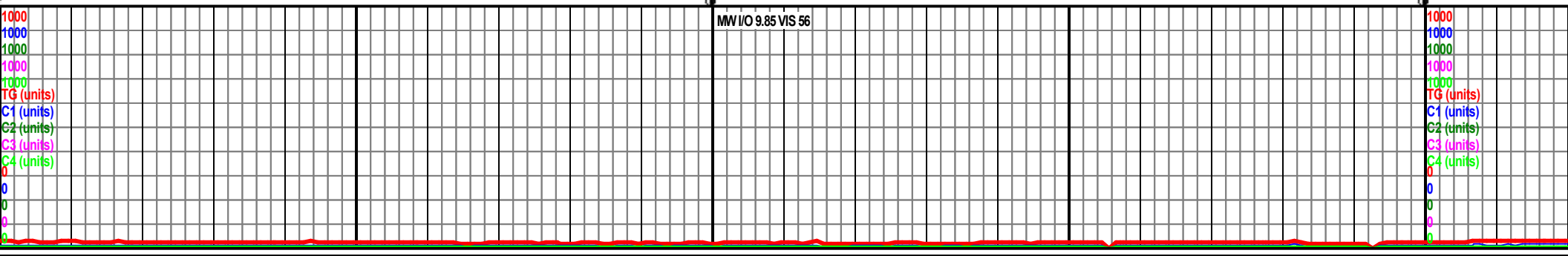
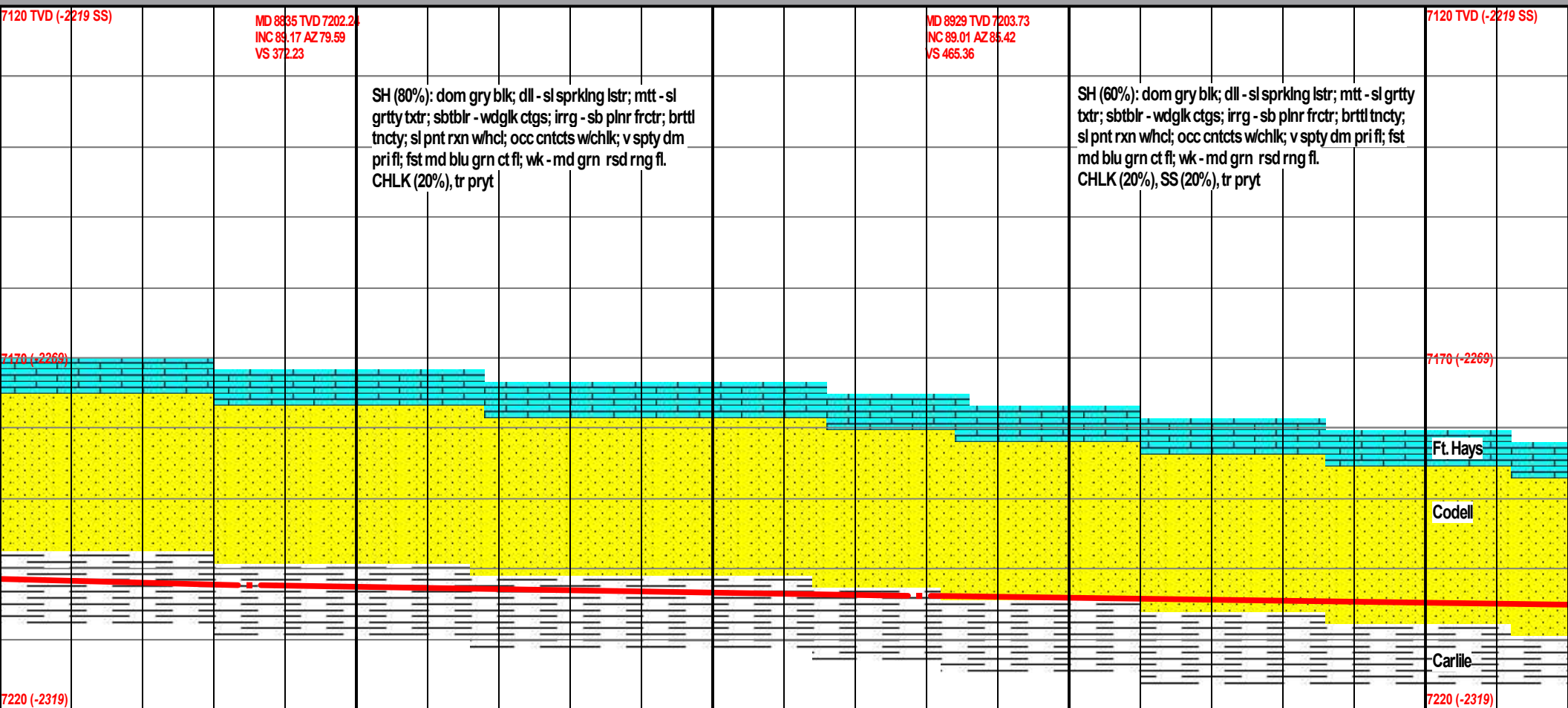
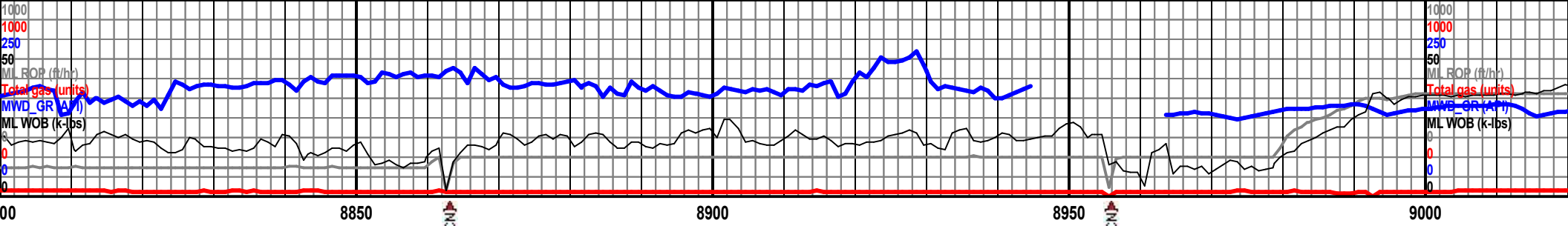


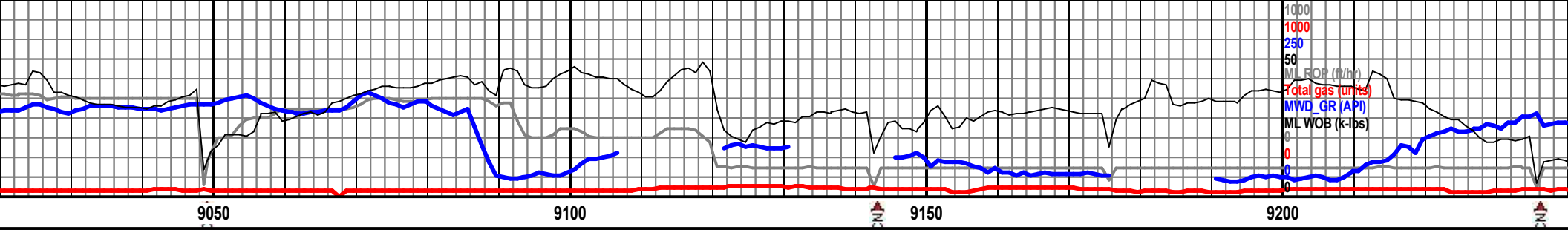




<p>7120 TVD (-2219 SS)</p> <p>SH (80%): dom gry blk; dli - sl sprking lstr; mtt - sl grtty tstr; sbtblr - wdgk ctgs; irrg - sb plnr frctr; brttl tncy; sl pnt rxn whcl; occ cntcts wchl; v spty dm pri fl; fst md blu grn ct fl; wk - md grn rsd rng fl. CHLK (20%), tr pryt</p>	<p>MD 8649 TVD 7197.44 NC 89.05 AZ 92.36 VS 187.45</p>	<p>MD 8743 TVD 7199.92 INC 87.94 AZ 83.75 VS 281.27</p>
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MD 9024 TVD 7205.16  
INC 89.26 AZ 88.84  
VS 560.2

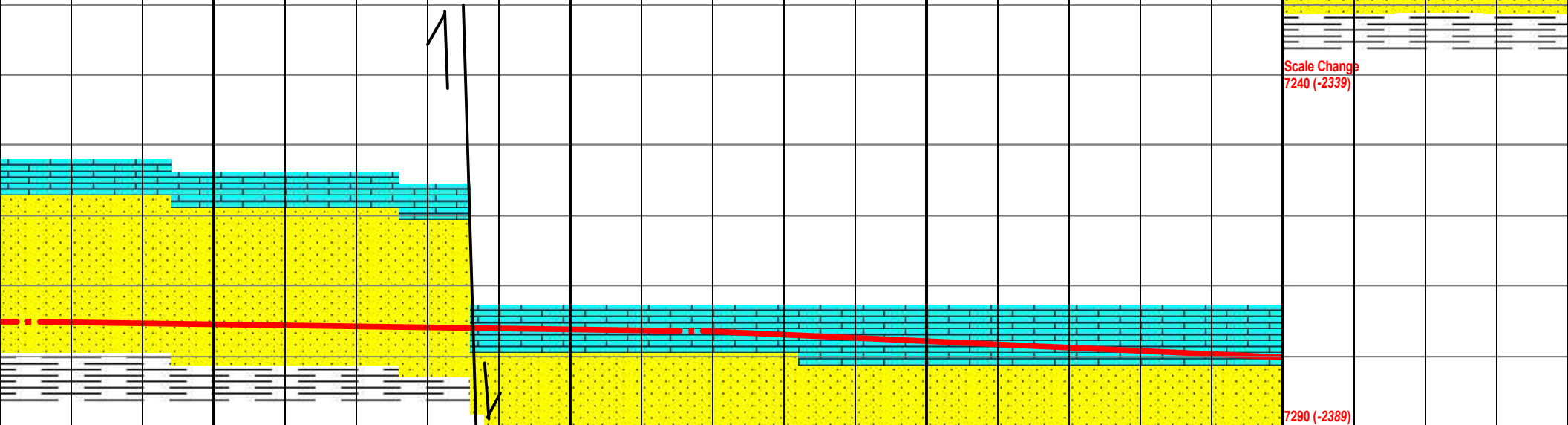
MD 9117 TVD 7206.37  
INC 89.26 AZ 89.78  
VS 653.19

7190 TVD (-2389)  
MD 9209 TVD 7210.52  
INC 85.56 AZ 91.58  
VS 745.07

SS (70%): md lt gry - md gry w/olv gry hues; fn - v fn  
grnd; sbang - sbrnd; md - pr srt; grn - mtrx sprt;  
abndnt silt - cly mtrx; est 10% por; nr evn pri fl; fst mod  
grn blu ct fl; wk - mod grn rsd rng fl.  
LS (20%), SH (10%)

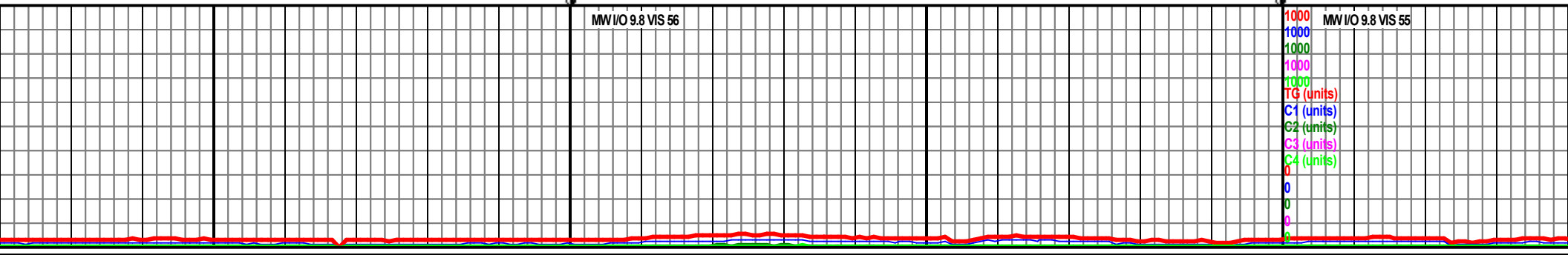
LS: (80%) pred v lt gry-prly wht abndt crmy-lt tan  
thru, v jggd-v blk cuttngs, sbconcdl frac pttrn,  
crypxn-micrxln, v cln, frm-sl sft, rr sly strngs, uni dim  
min fluor, fst grn blu ct fl, mod grn rsd rng fl.  
SS(20%), com SH

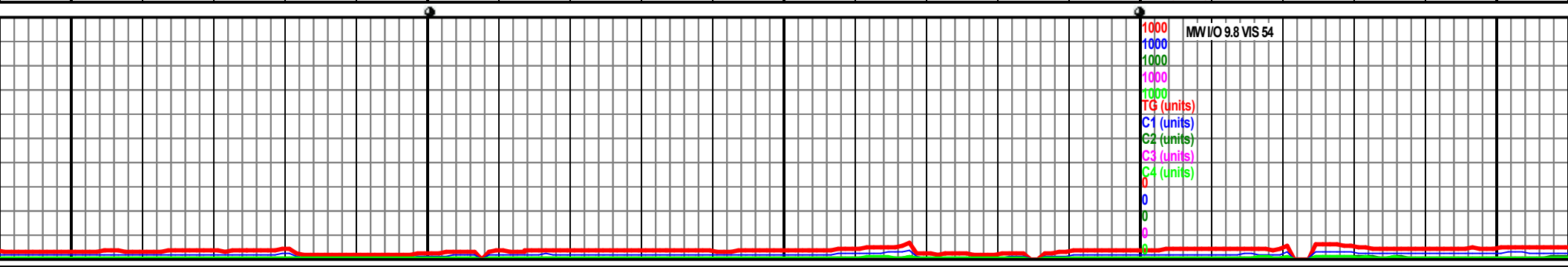
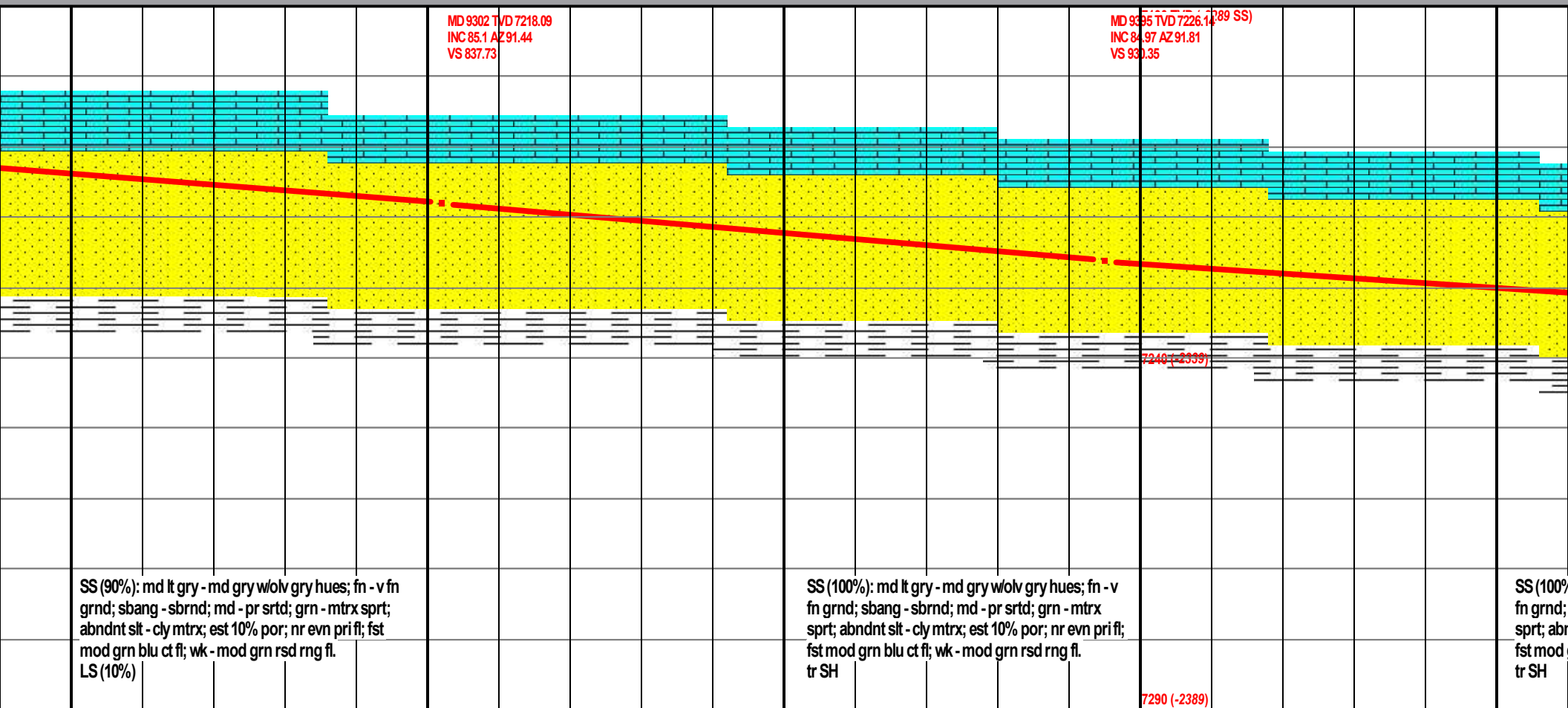
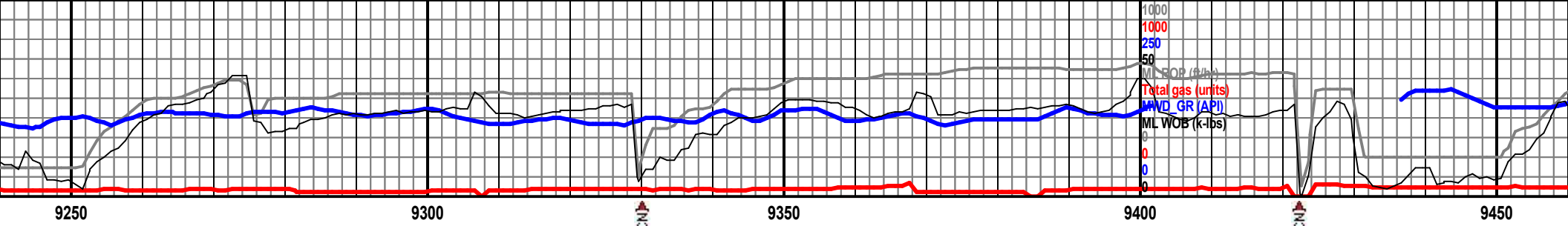
Fault #2 @ 9,088' MD (SRC Fault 7-3) ~19' Throw Down



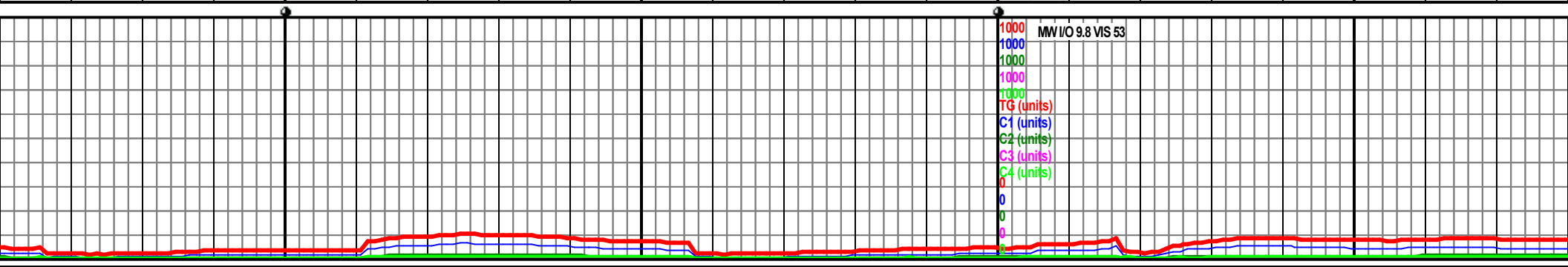
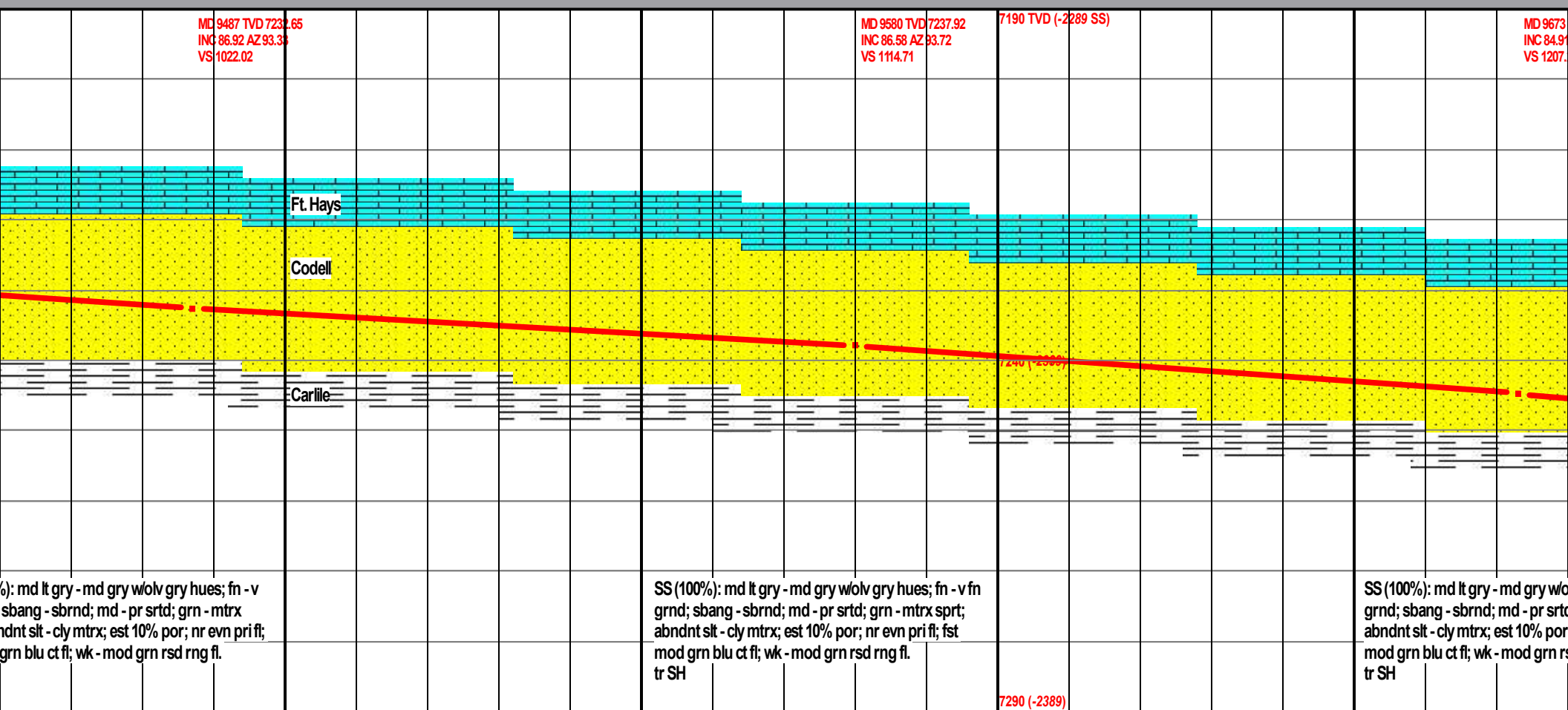
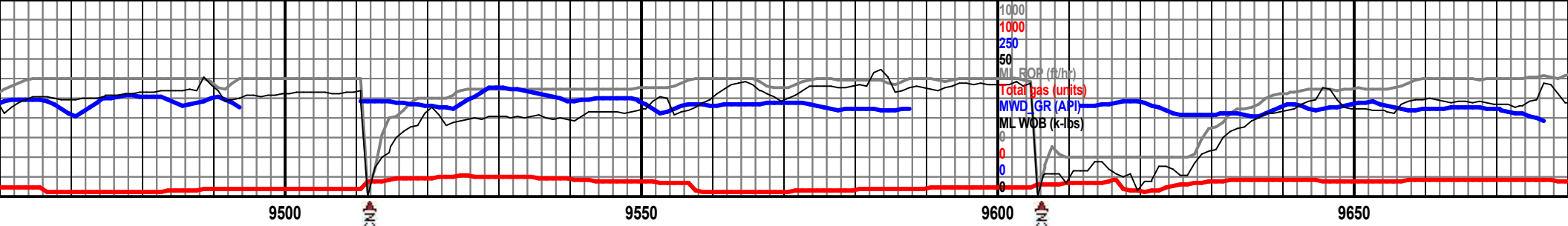
MW I/O 9.8 VIS 56

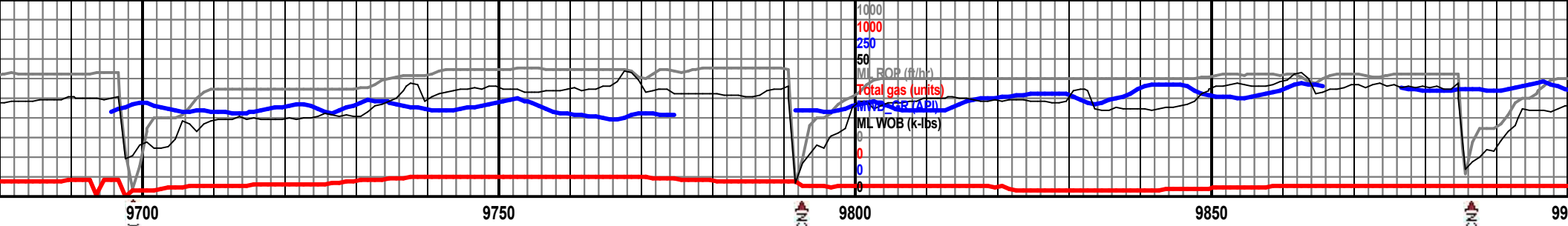
MW I/O 9.8 VIS 55









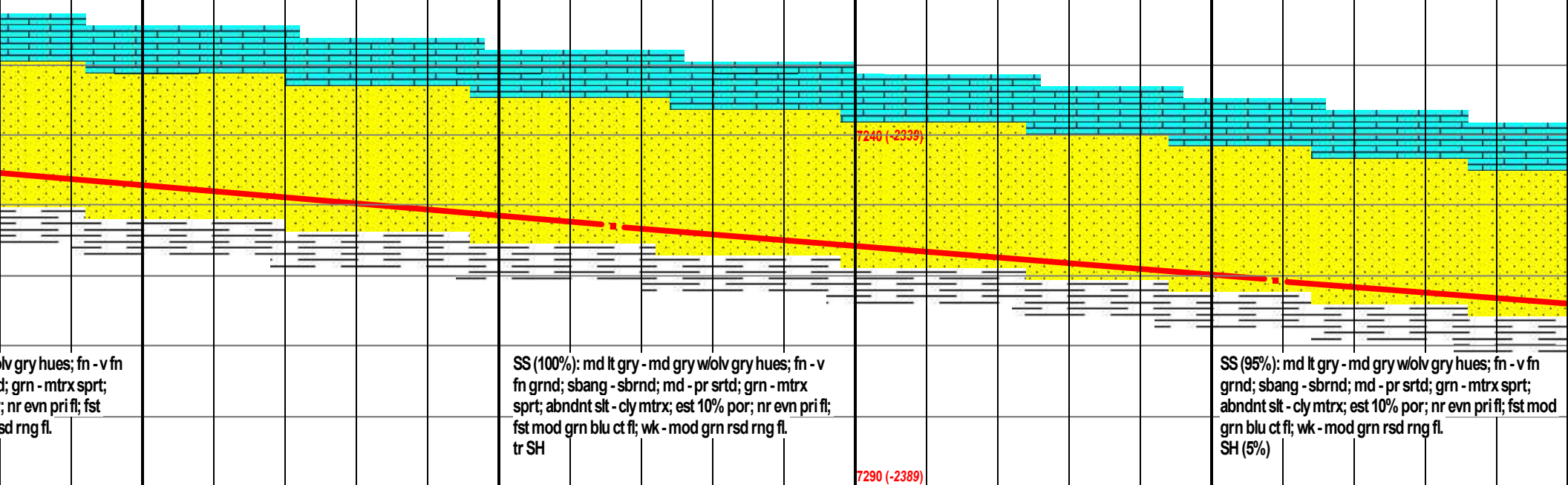


TVD 7244.82  
AZ 93.86  
25

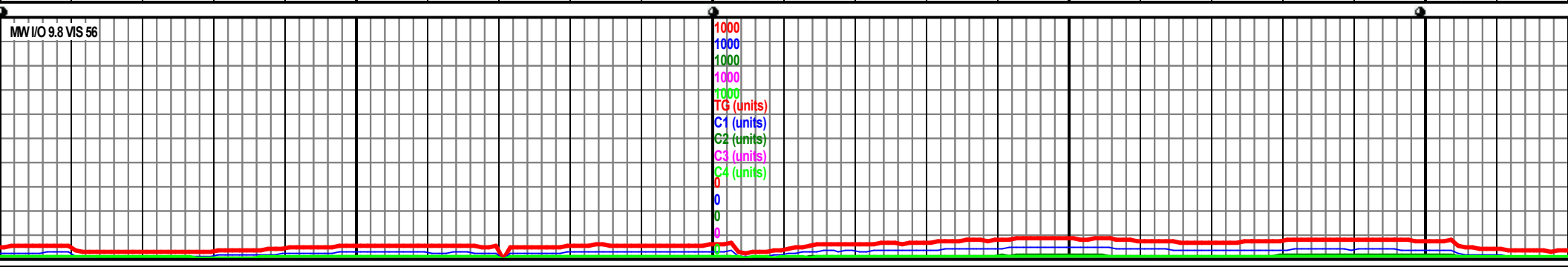
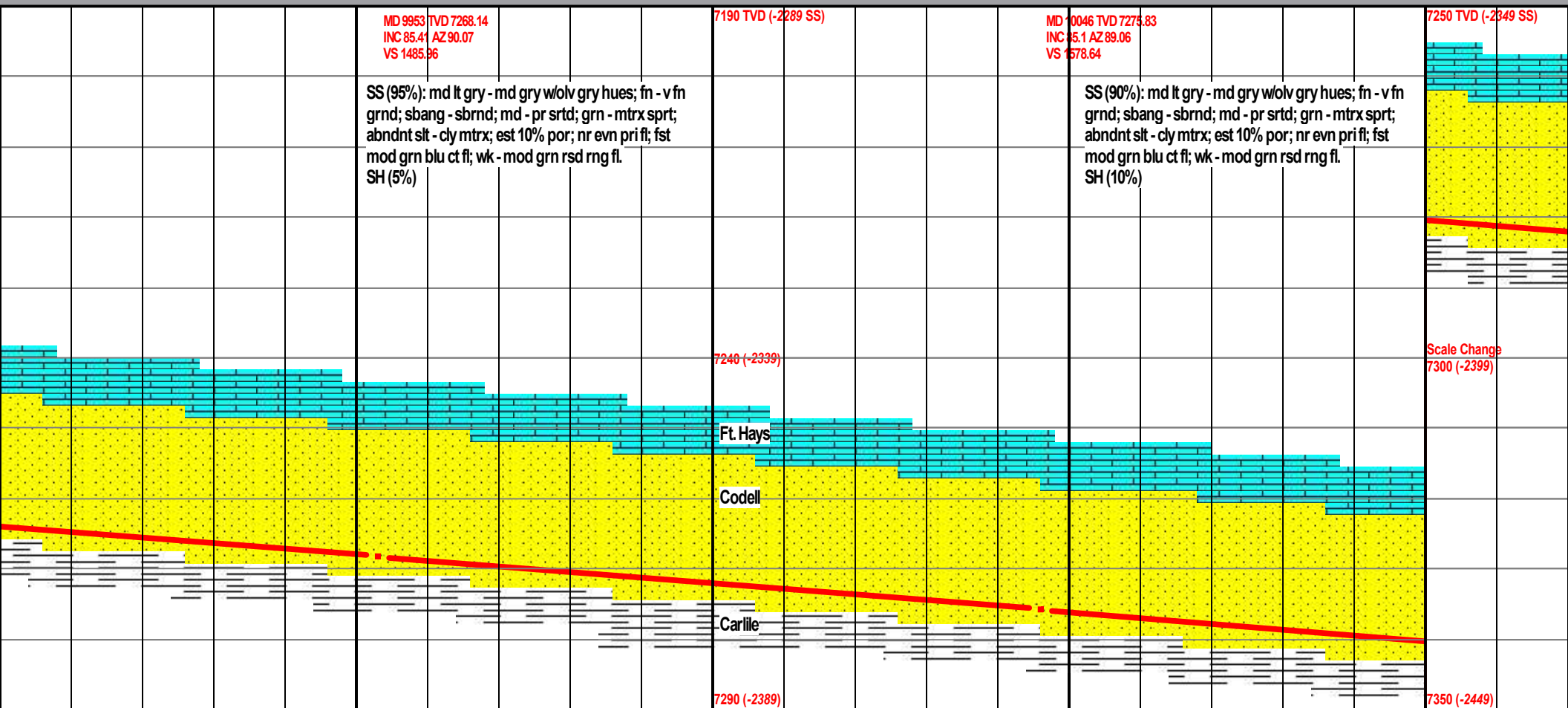
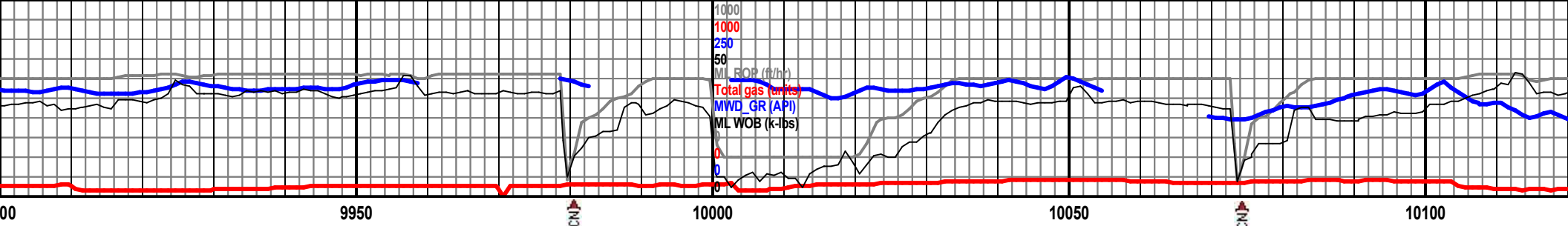
MD 9766 TVD 7252.99  
INC 45.01 AZ 93.09  
VS 1299.73

7190 TVD (-2289 SS)

MD 9859 TVD 7260.68  
INC 85.5 AZ 92.9  
VS 1392.29



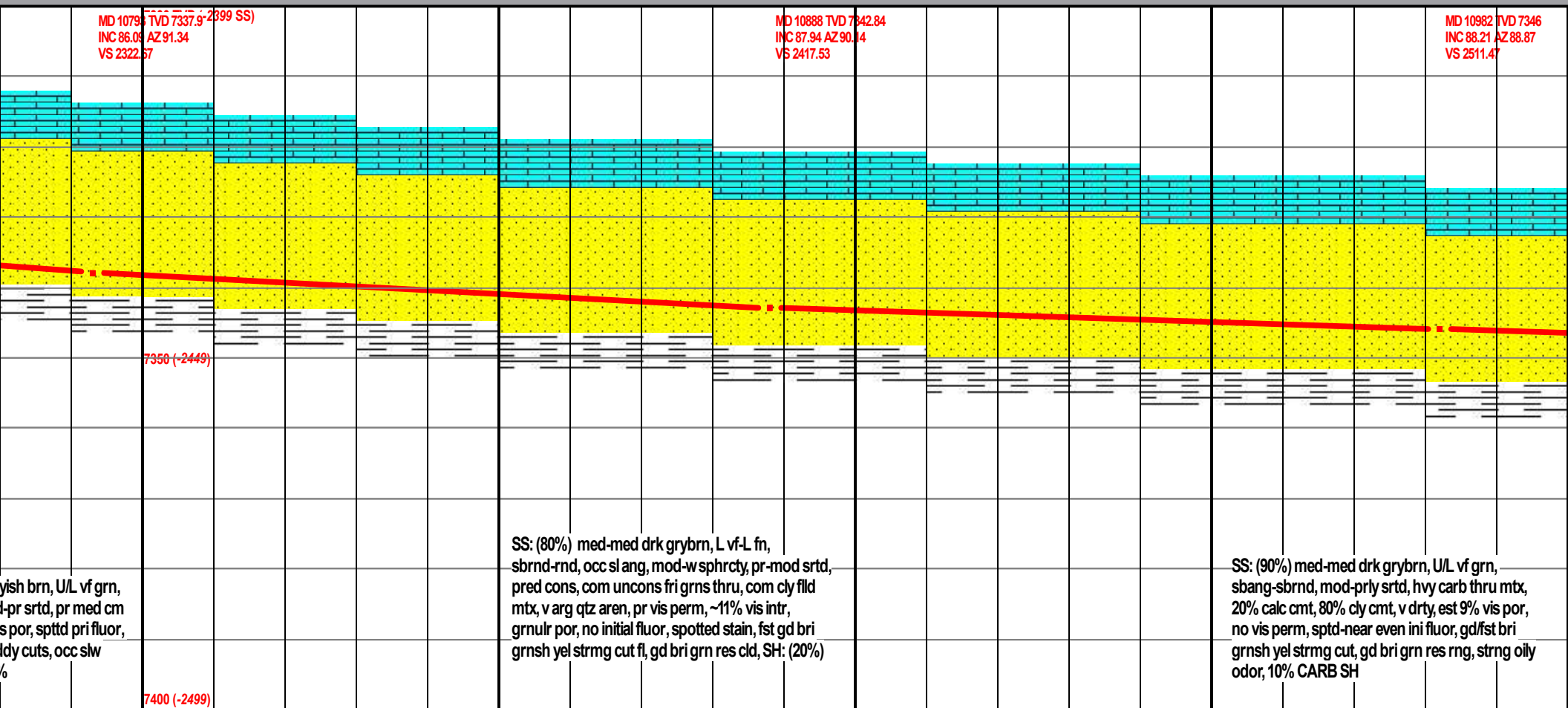
1000  
1000  
1000  
1000  
1000  
1000  
TG (units)  
C1 (units)  
C2 (units)  
C3 (units)  
C4 (units)



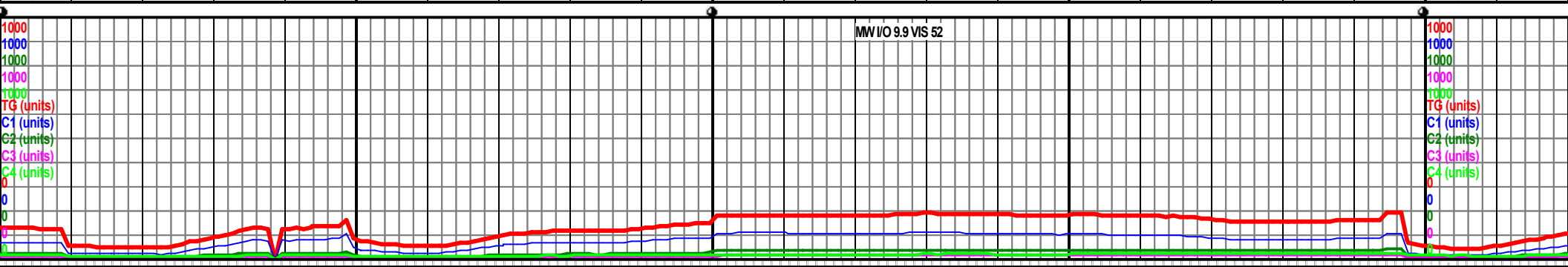
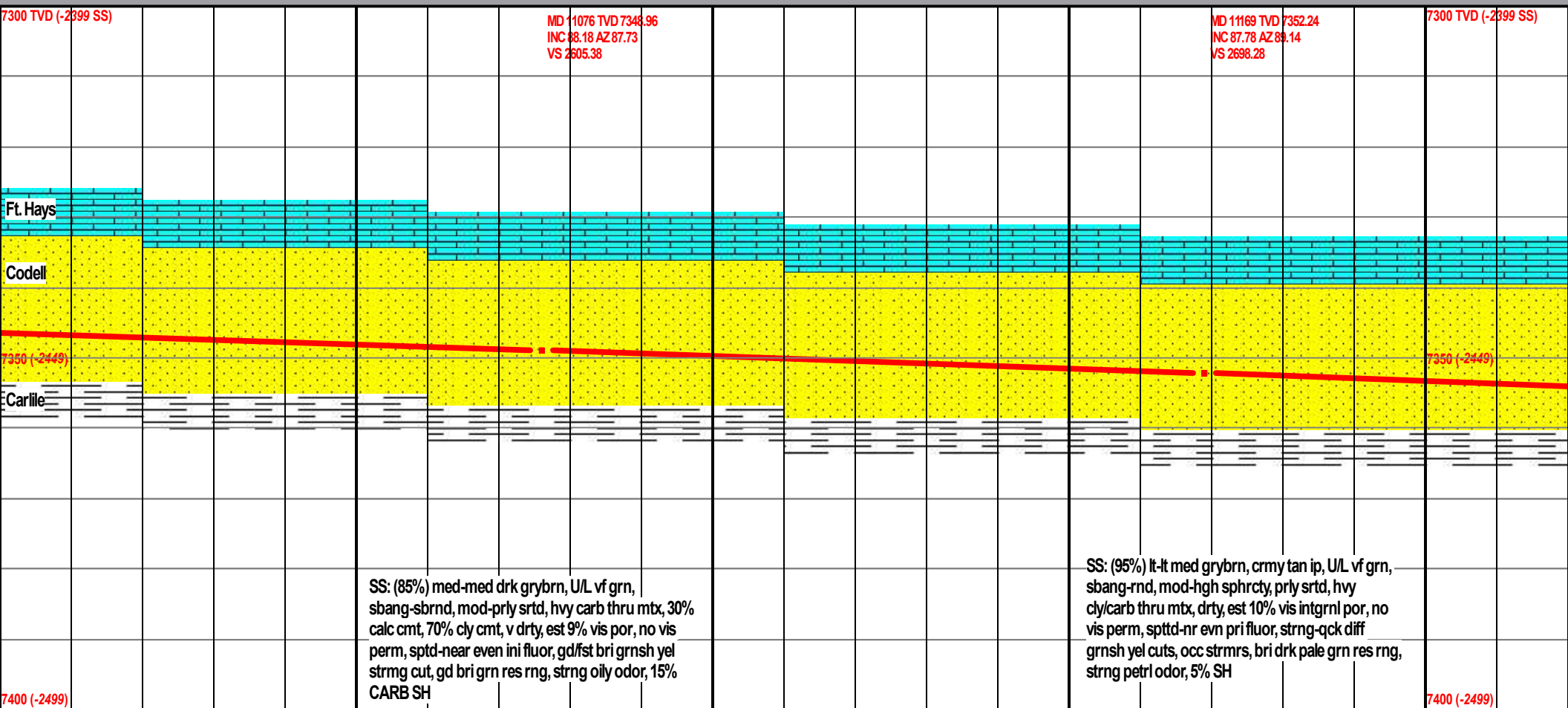
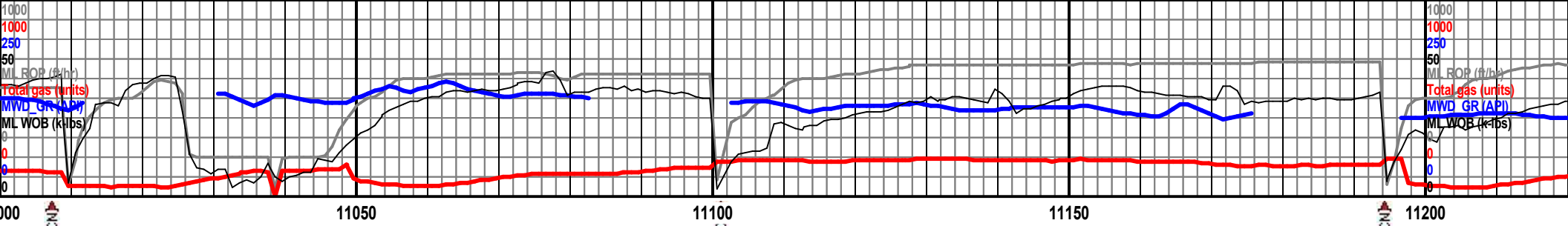


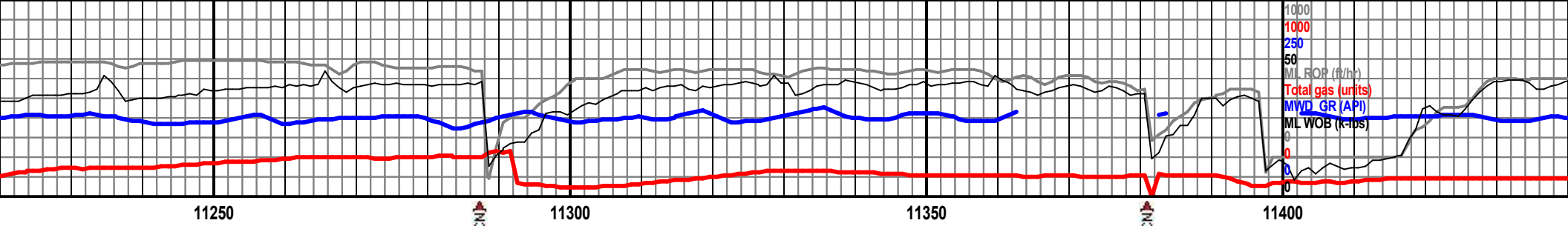








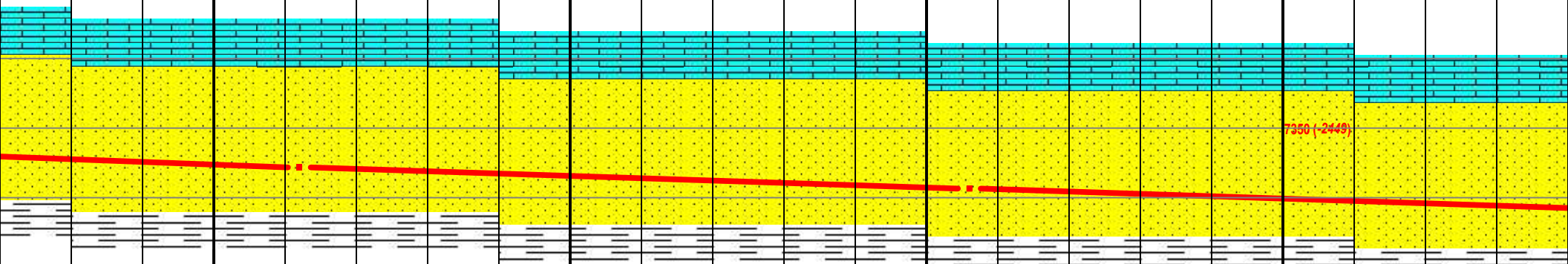




MD 11262 TVD 7355.54  
INC 88.15 AZ 88.99  
VS 2791.2

MD 11356 TVD 7358.53  
INC 88.21 AZ 87.98  
VS 2885.12

7300 TVD (-2399 SS)

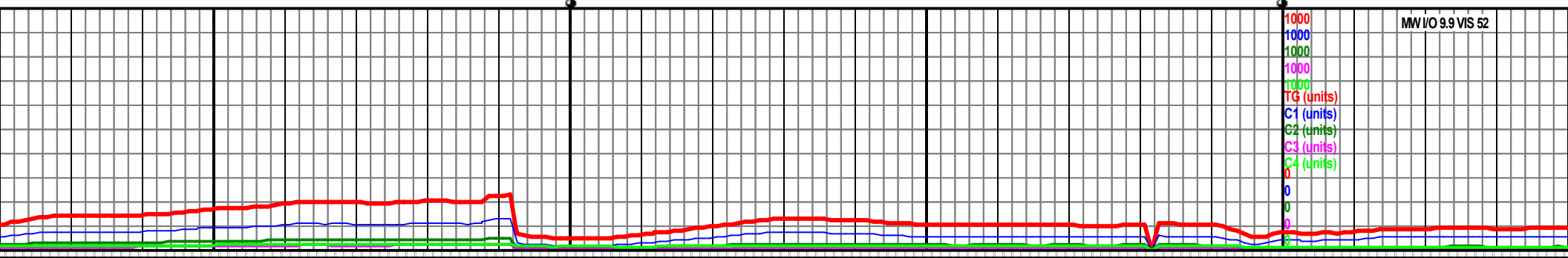


7350 (-2449)

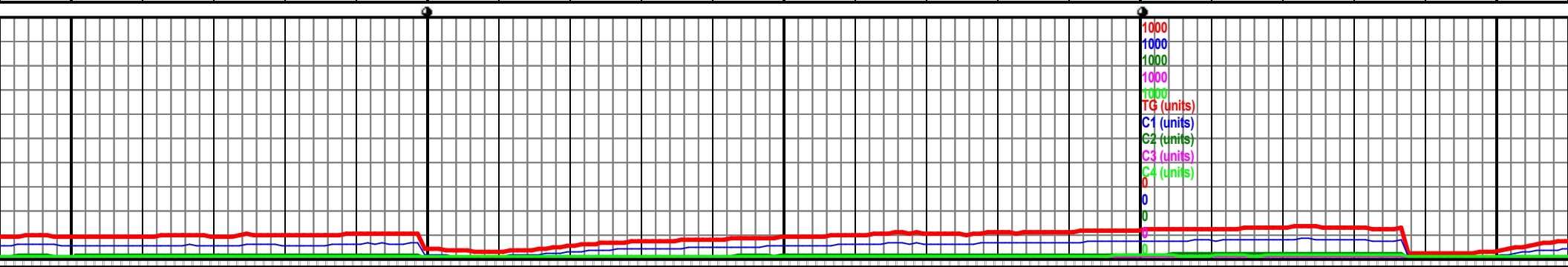
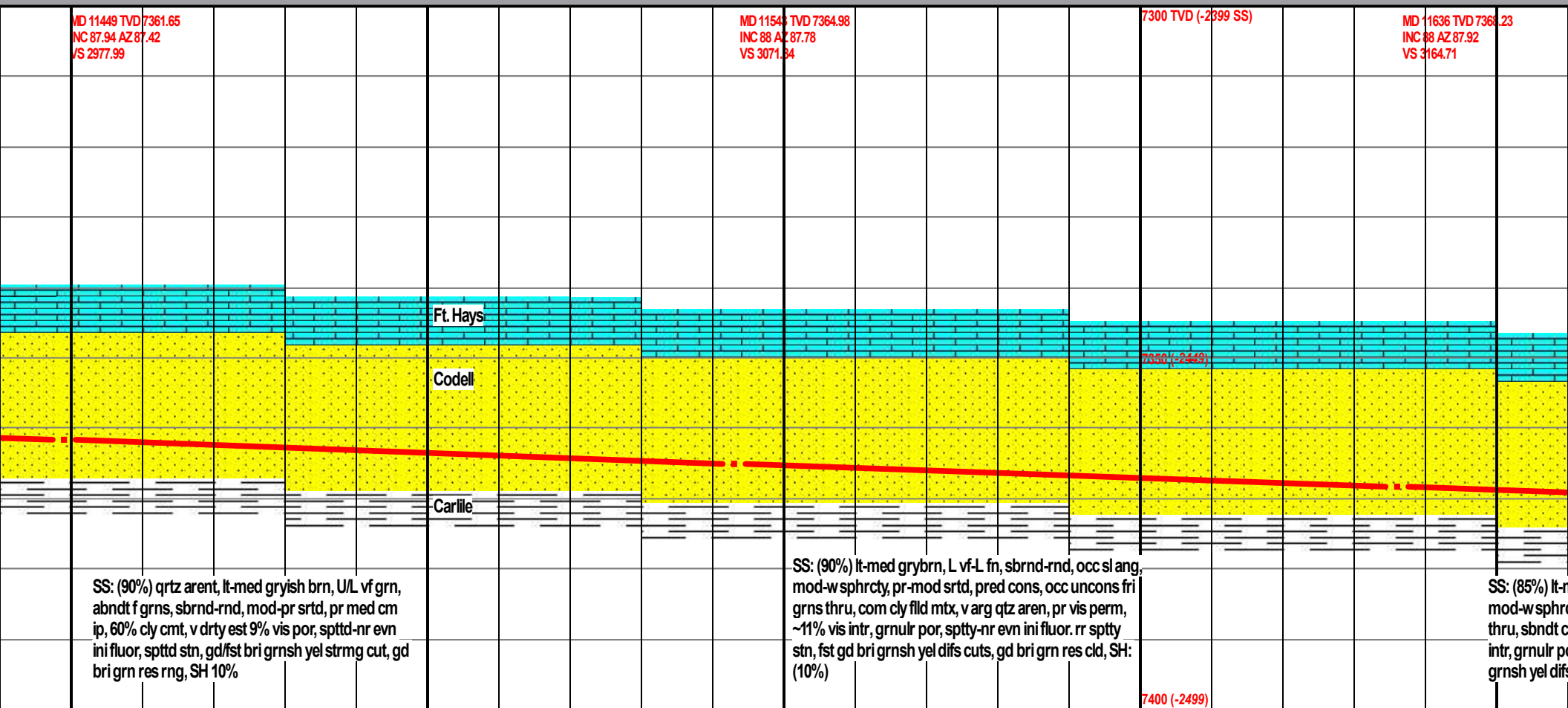
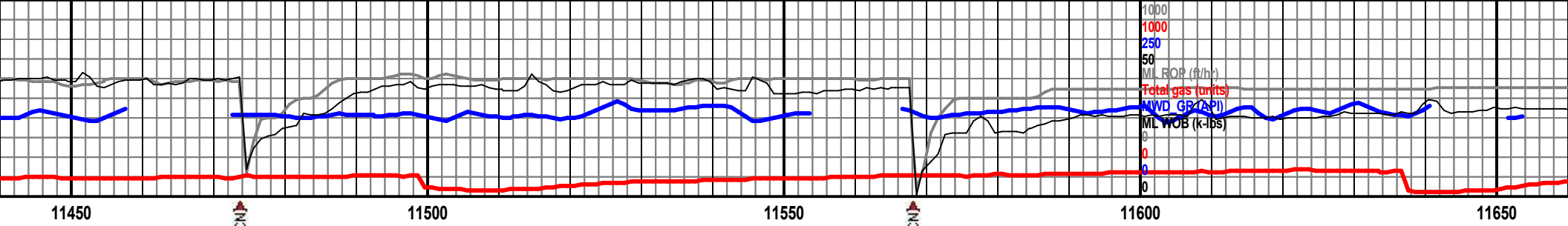
SS: (90%) lt-lt med grybrn, crmy tan ip, U/L vf grn, sbang-rnd, mod-hgh sphrcty, prly srted, hvy cly/carb thru mtz, drty, est 10% vis intgrnl por, no vis perm, spttd-nr evn pri fluor, strng-qck diff grnsh yel cuts, occ strms, bri drk pale grn res rng, strng petr odor, 10% SH

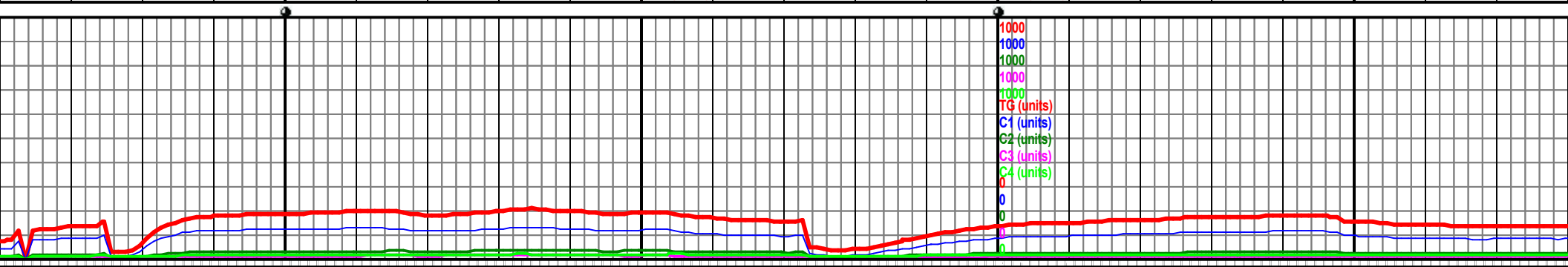
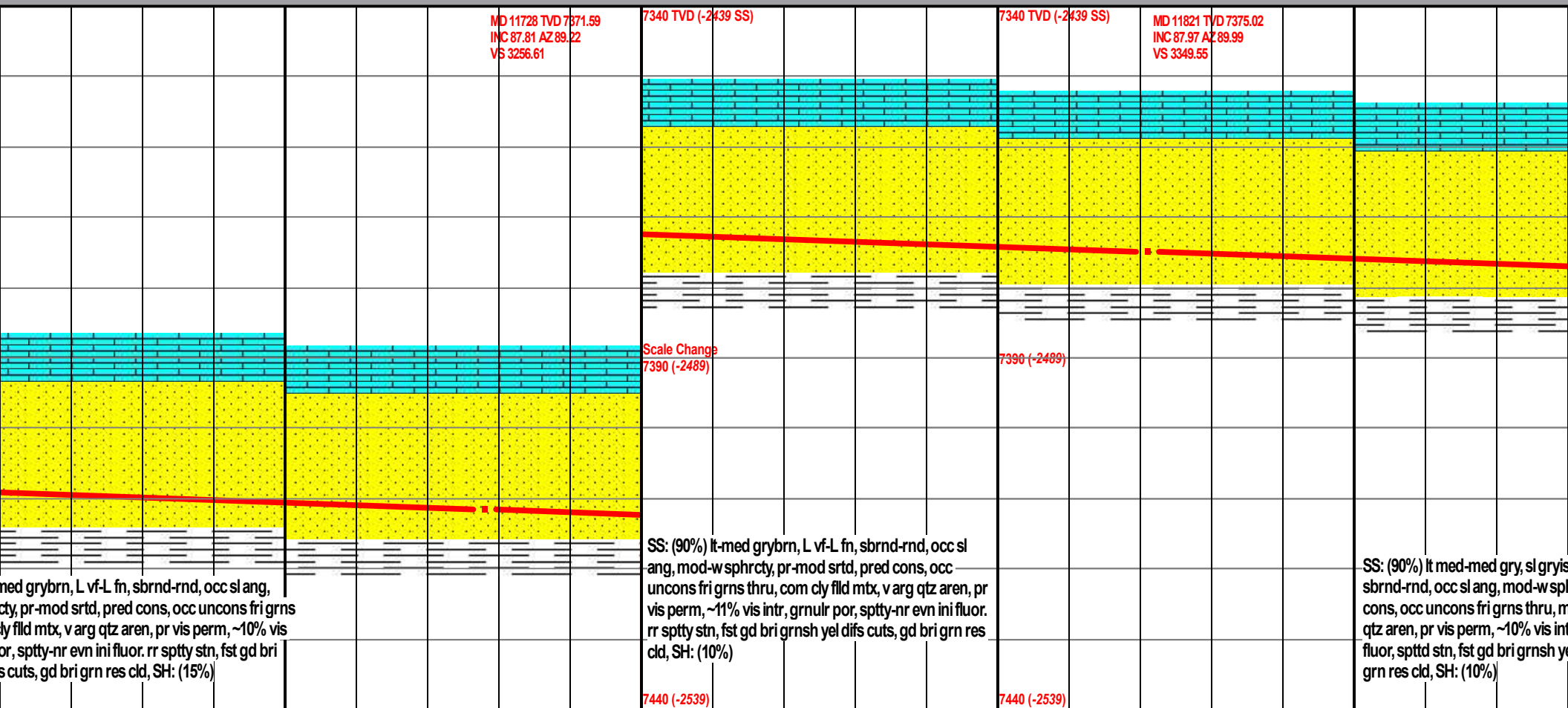
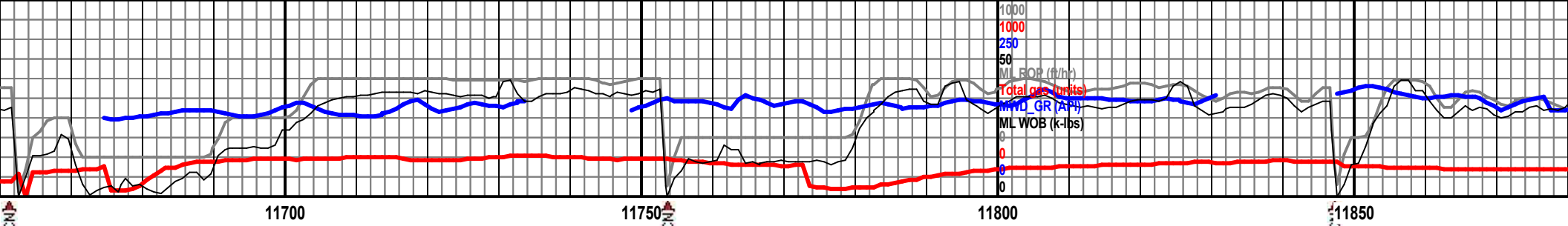
SS: (95%) lt-lt med grybrn, crmy tan ip, U/L vf grn, sbang-rnd, mod-hgh sphrcty, prly srted, hvy cly/carb thru mtz, drty, est 10% vis intgrnl por, no vis perm, spttd-nr evn pri fluor, strng-qck diff grnsh yel cuts, occ strms, bri drk pale grn res rng, strng petr odor, 5% SH

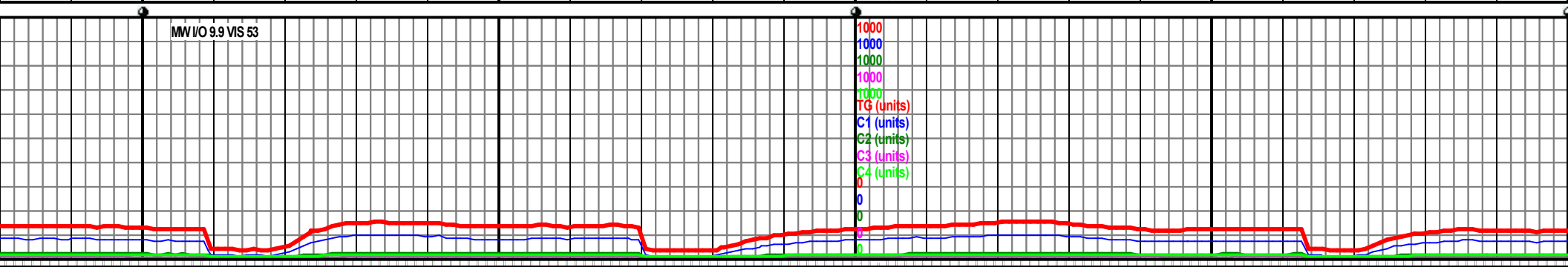
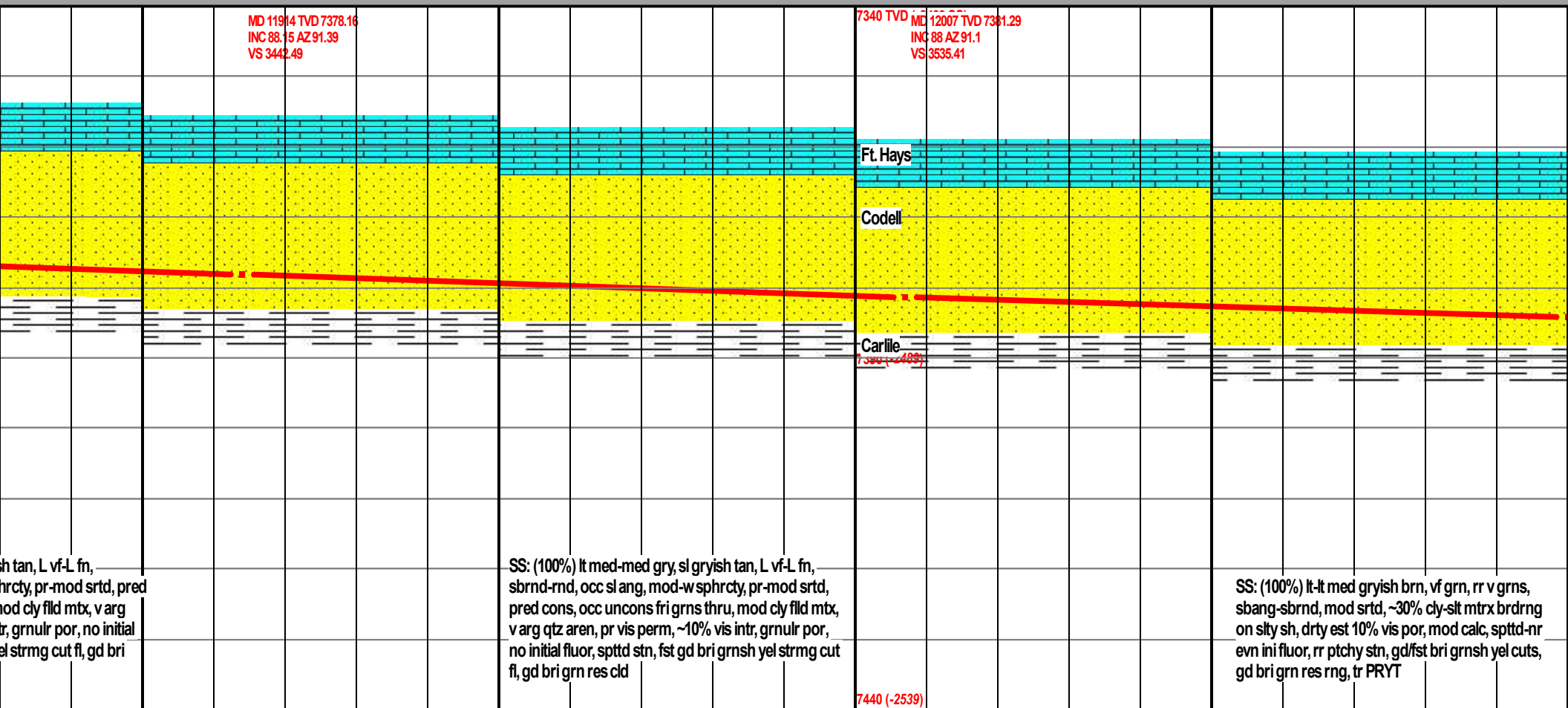
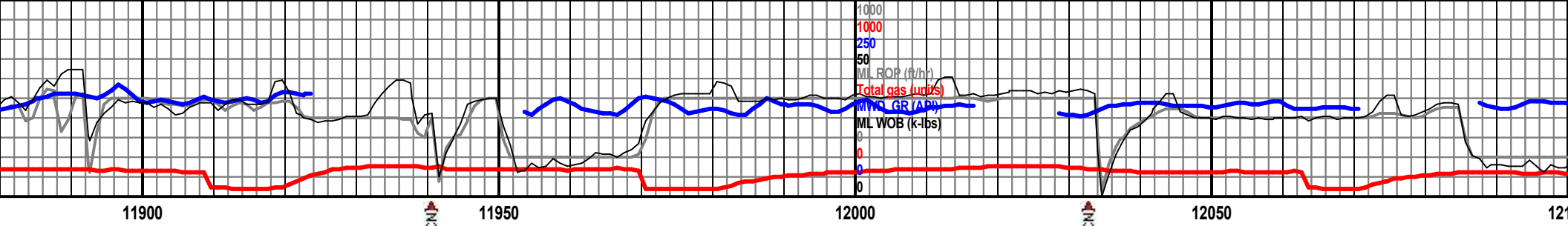
7400 (-2499)

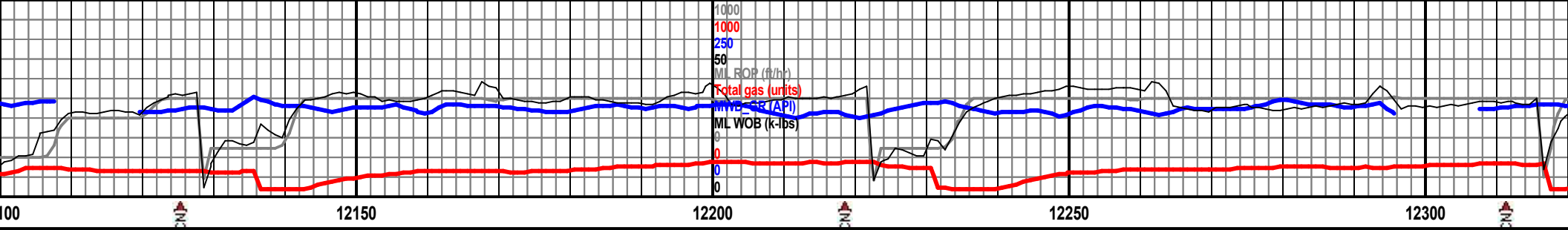


MW I/O 9.9 VIS 52





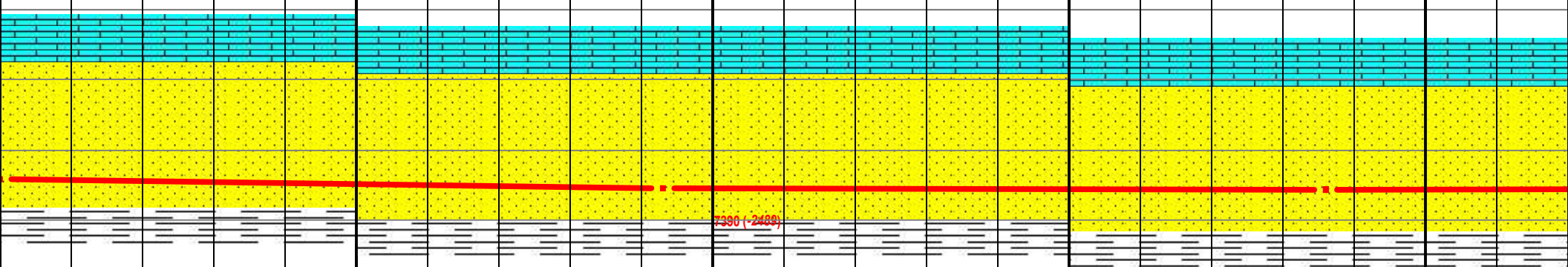




MD 12100 TVD 7384.21  
INC 88.4 AZ 90.63  
VS 3628.36

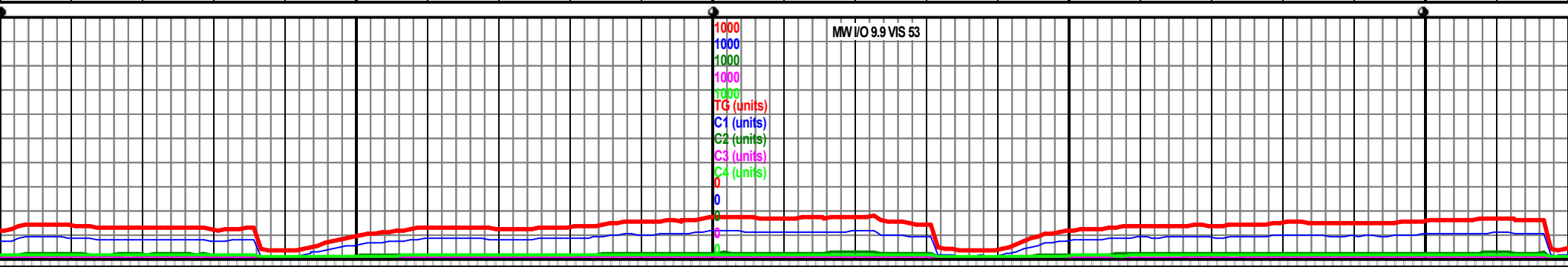
MD 12194 TVD 7385.56  
INC 89.94 AZ 90.46  
VS 3721.84

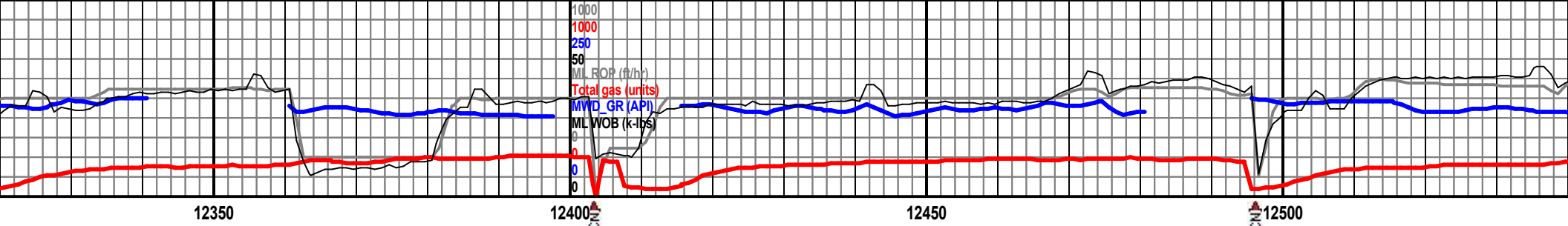
MD 12286 TVD 7384.61  
INC 90 AZ 90.56  
VS 3814.34



SS: (100%) lt-lt med gryish brn, vf grn, rr v grns, sbang-sbrnd, mod srted, ~30% cly-slt mtrx brdrng on slty sh, drty est 10% vis por, mod calc, spttd-nr evn ini fluor, rr ptchy stn, gd/fst bri grnsh yel cuts, gd bri grn res rng

SS: (95%) lt-lt med gryish brn, vf grn, rr v grns, sbang-sbrnd, mod srted, ~30% cly-slt mtrx brdrng on slty sh, drty est 10% vis por, mod calc, spttd-nr evn ini fluor, rr ptchy stn, gd/fst bri grnsh yel cuts, gd bri grn res rng, tr PRYT, tr SH

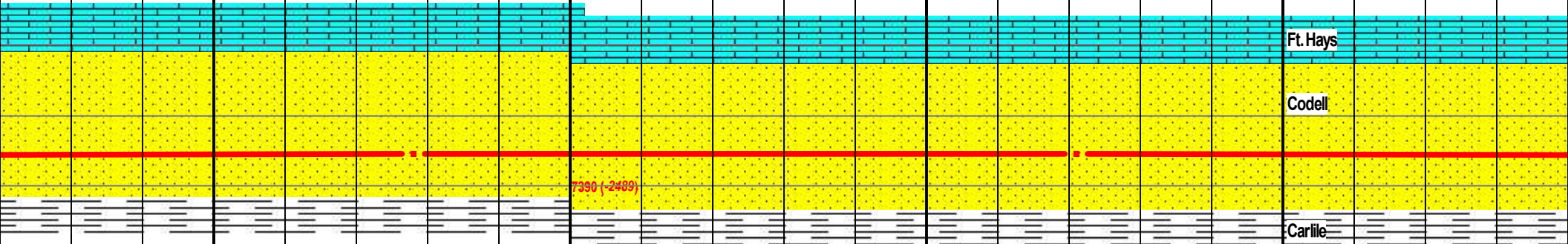




MD 12378 TVD 7385.51  
INC 90.12 AZ 90.9  
VS 3906.34

7340 TVD (-2439 SS)

MD 12471 TVD 7385.51  
INC 89.88 AZ 91.23  
VS 3999.32

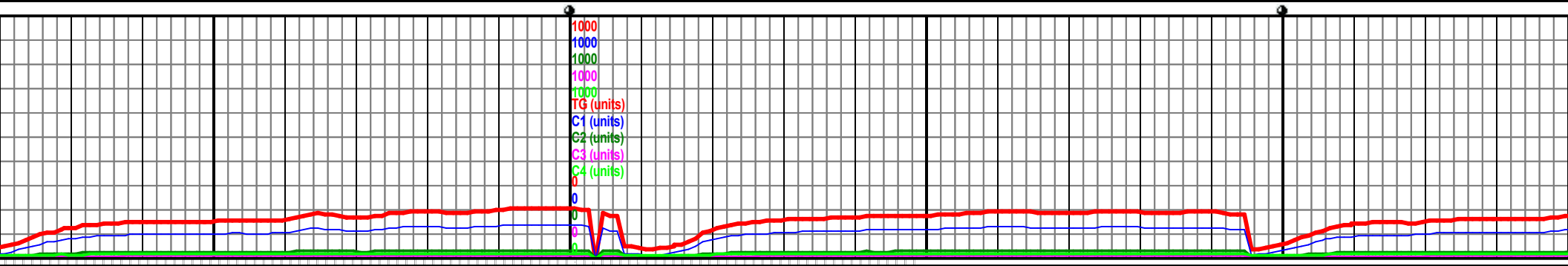


7390 (-2489)

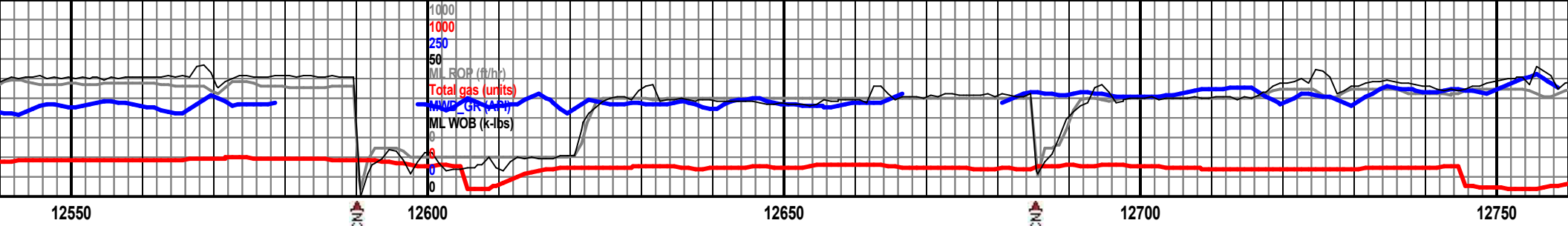
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vf grn, abndt f grns, sbang-sbrnd, mod-pr  
srtd, pr med cm ip, 45% cly cmt, v drty est 9%  
vis por, spttd pri fluor, ptchy stn, gd/fst dim  
grnsh yel cldy cuts, occ slw strmr, gd bri grn  
res rng, SH 5%

SS: (90%) qrtz aren, lt-lt med gryish brn, U/L vf grn,  
abndt f grns, sbang-sbrnd, mod-pr srtd, pr med cm  
ip, 40% cly cmt, v drty est 10% vis por, spttd pri fluor,  
ptchy stn, gd/fst dim grnsh yel cldy cuts, occ slw  
strmr, gd bri grn res rng, SH 10%

7440 (-2539)





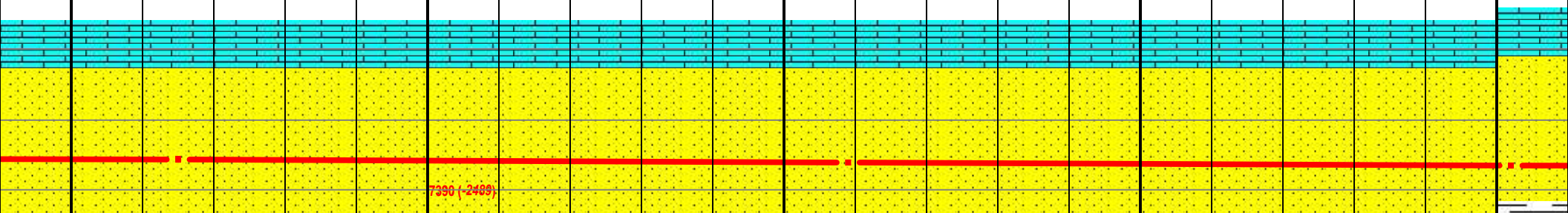


MD 12565 TVD 7385.68  
INC 89.91 AZ 91.79  
VS 4083.29

7340 TVD (-2439 SS)

MD 12659 TVD 7386.06  
INC 89.63 AZ 92.52  
VS 4187.23

MD 12752  
INC 89.72  
VS 4280.1



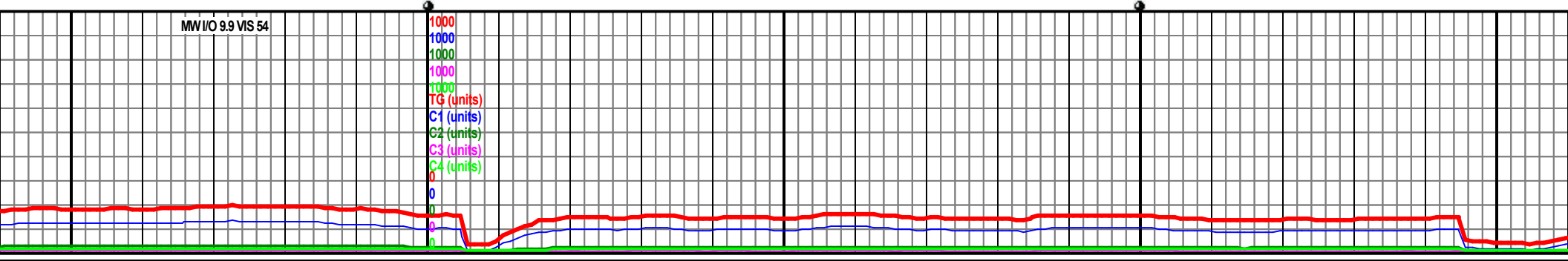
SS: (90%) lt-med grybrn, L vf-L fn, sbrnd-rnd, occ sl  
ang, mod-w sphrcty, pr-mod srted, pred cons, occ  
uncons fri grns thru, com cly fld mtz, v arg qtz aren, pr  
vis perm, ~10% vis intr, grnldr por, sptty-nr evn ini fluor.  
rr sptty stn, fst gd bri grnsh yel difs cuts, gd bri grn res  
cld, SH: (10%)

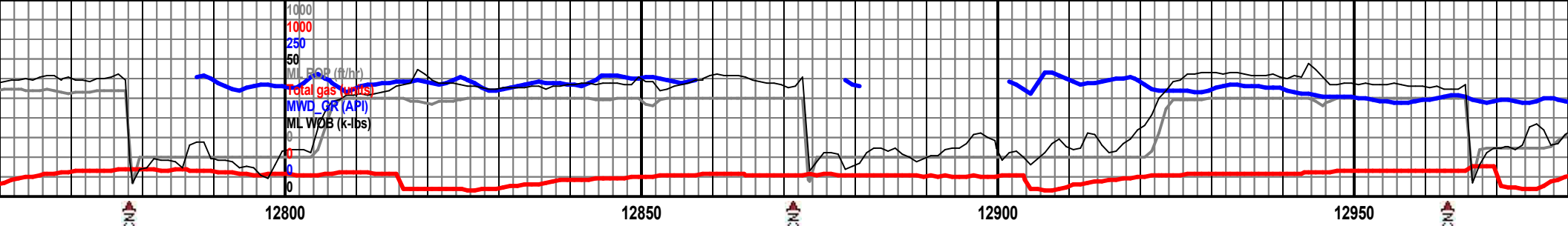
7440 (-2539)

SS: (85%) lt-med grybrn, L vf-L fn, sbrnd-rnd, occ sl  
ang, mod-w sphrcty, pr-mod srted, pred cons, occ  
uncons fri grns thru, com cly fld mtz, v arg qtz aren, pr  
vis perm, ~9% vis intr, grnldr por, sptty-nr evn ini fluor.  
rr sptty stn, fst gd bri grnsh yel difs cuts, gd bri grn res  
cld, SH: (15%)

SS: (85%)  
sbrng  
on stly  
evn ini  
gd bri

MW I/O 9.9 VIS 54



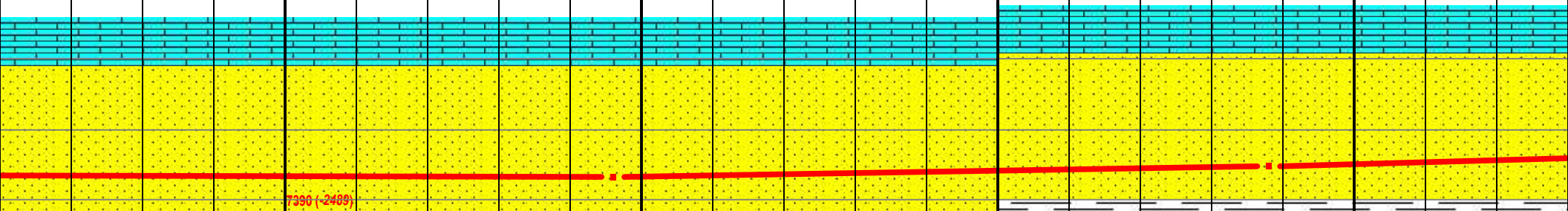


TVD 7386.59  
AZ 93.65

7340 TVD (-2439 SS)

MD 12846 TVD 7386.77  
INC 90.06 AZ 90.48  
VS 4374.03

MD 12938 TVD 7385.31  
INC 91.75 AZ 88.83  
VS 4466.01

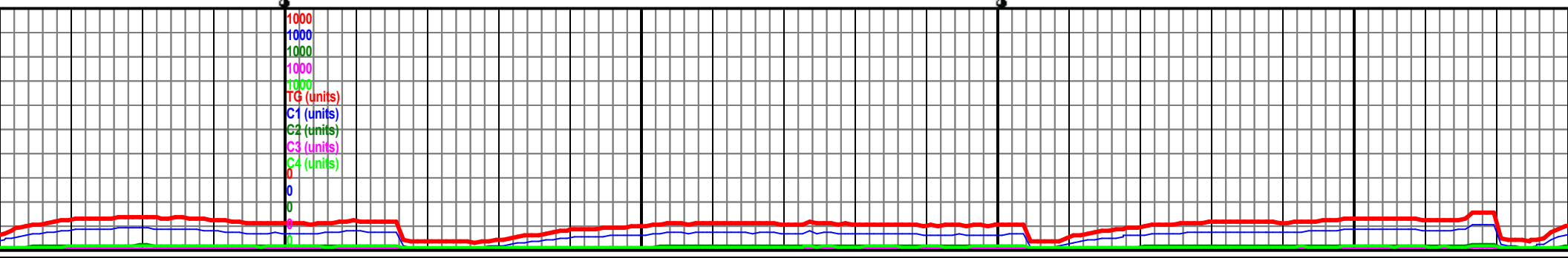


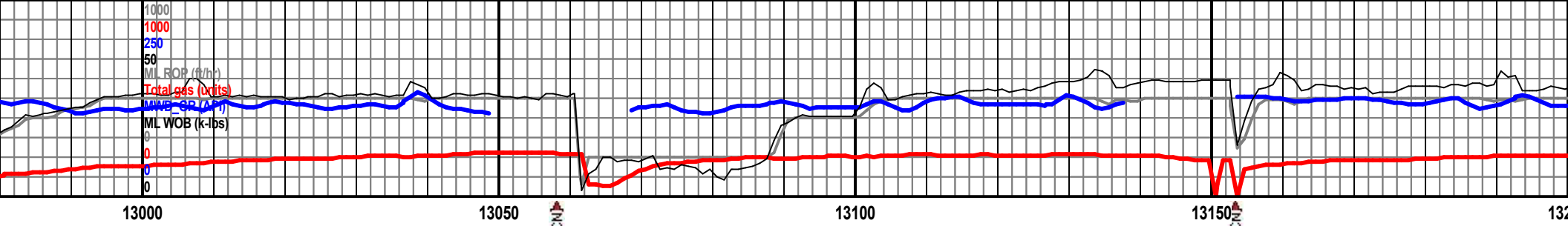
(%) lt-lt med gryish brn, vf grn, rr v grns,  
-sbrnd, mod srted, ~30% cly-slt mtrx brdrng  
sh, drty est 10% vis por, mod calc, spttd-nr  
fluor, rr ptchy stn, gd/fst bri grnsh yel cuts,  
grn res rng, SH: (15%)

SS: (75%) qrtz arent, lt-lt med gryish brn, U/L vf  
grn, abndt f grns, sbang-sbrnd, mod-pr srted, pr  
med cm ip, 40% cly cmt, v drty est 10% vis por,  
spttd pri fluor, ptchy stn, gd/fst dim grnsh yel cldy  
cuts, occ slw strmr, gd bri grn res rng, incrsng SH  
25%

SS: (85%) qrtz arent, lt-lt med  
grn, abndt f grns, sbang-sbrnd  
med cm ip, 40% cly cmt, v drty  
spttd pri fluor, ptchy stn, gd/fst  
cldy cuts, occ slw strmr, gd br  
15%

7440 (-2539)





7340 TVD (-2439 SS)

MD 13032 TVD 7382.64  
INC 91.51 AZ 88.92  
VS 4559.95

MD 13127 TVD 7381.57  
INC 89.78 AZ 89.15  
VS 4654.93

Ft. Hays

Codell

7388 (-2489)

Carlile

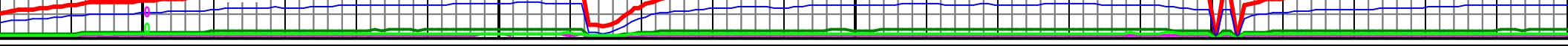
gryish brn, U/L vf  
d, mod-pr srted, pr  
rest 10% vis por,  
t dim grnsh yel  
i grn res rng, SH

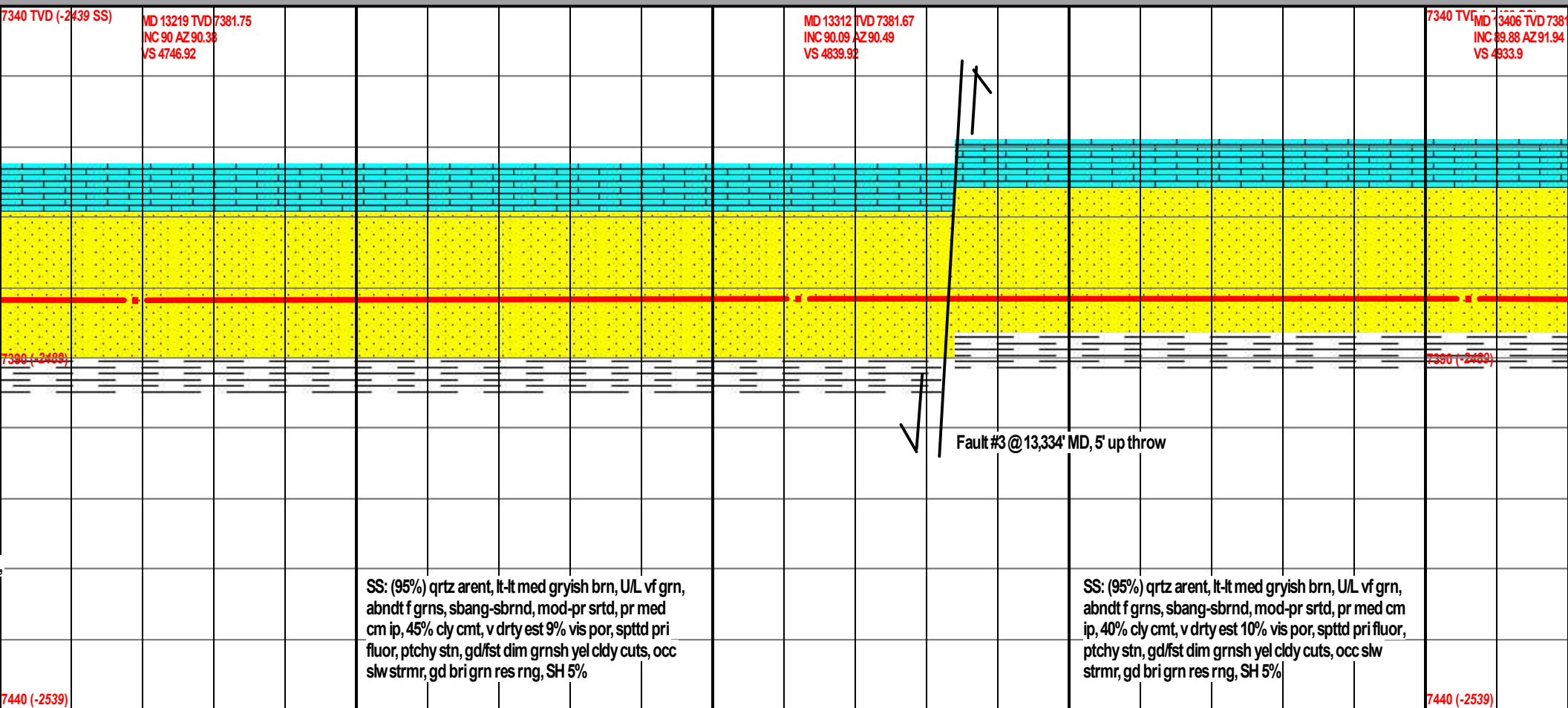
SS: (100%) lt med-med gry, sl gryish tan, L vf-L fn,  
sbrnd-rnd, occ sl ang, mod-w sphrcty, pr-mod  
srted, pred cons, occ unconfs fri grns thru, mod cly  
fldl mtb, v arg qtz aren, pr vis perm, ~10% vis intr,  
grnubr por, no initial fluor, spttd stn, fst gd bri  
grnsh yel strmg cut fl, gd bri grn res cld, tr pyrt

SS: (90%) lt-med grybrn, L vf-L fn, sbrnd-rnd, occ sl ang  
mod-w sphrcty, pr-mod srted, pred cons, occ unconfs fri  
grns thru, com cly fldl mtb, v arg qtz aren, pr vis perm,  
~10% vis intr, grnubr por, sptty-nr evn ini fluor. rr sptty  
stn, fst gd bri grnsh yel difs cuts, gd bri grn res cld, SH:  
(10%), tr pyrt

7440 (-2539)

1000 Depth 11300'  
1000 MW 9.9  
1000 VIS 52  
1000 PV 16  
1000 YP 9  
TG (units) Gels 8/14/16  
C1 (units) Fil 20  
C2 (units) Sol 11.4  
C3 (units) O/W 82/18  
C4 (units) Cl 37500  
0 ES 673  
0 ECD 10.7





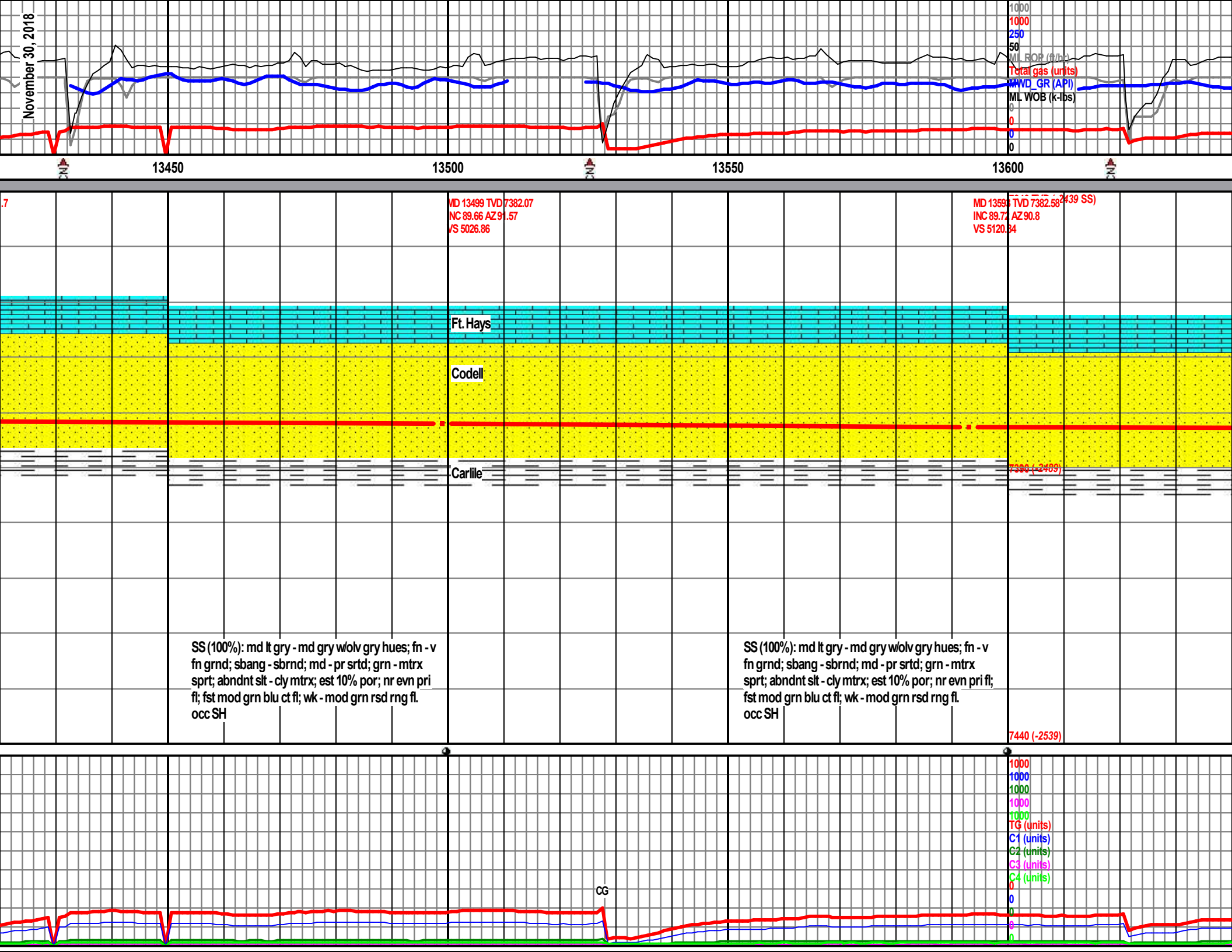
**Well Information:**  
 MD 13499 TVD 7382.07  
 NC 89.66 AZ 91.57  
 VS 5026.86

**Stratigraphic Column:**  
 The column shows three main units: **Ft. Hays** (top, light blue), **Codell** (middle, yellow), and **Carlile** (bottom, grey). A red line indicates the base of the formation.

**Lithology Descriptions:**  
 SS (100%): md lt gry - md gry w/olv gry hues; fn - v fn grnd; sbang - sbrnd; md - pr srted; grn - mtrx sprt; abndnt slt - cly mtrx; est 10% por; nr evn pri fl; fst mod grn blu ct fl; wk - mod grn rsd rng fl. occ SH

**Data Plots:**  
 The top plot shows **Total gas (units)** (red line), **MLWD\_GR (API)** (blue line), and **ML WOB (K-lbs)** (black line). The bottom plot shows **TG (units)** (red line), **C1 (units)** (green line), **C2 (units)** (blue line), **C3 (units)** (magenta line), and **C4 (units)** (cyan line).

**Well Path:**  
 The well path is shown as a black line with a red arrow indicating the direction of drilling. The path starts at the surface and descends into the formation.



This figure is a geological well log plot. The vertical axis represents depth in feet, ranging from 0 at the top to 10,000 at the bottom. The horizontal axis represents time or distance along the well path.

The plot displays several data series:

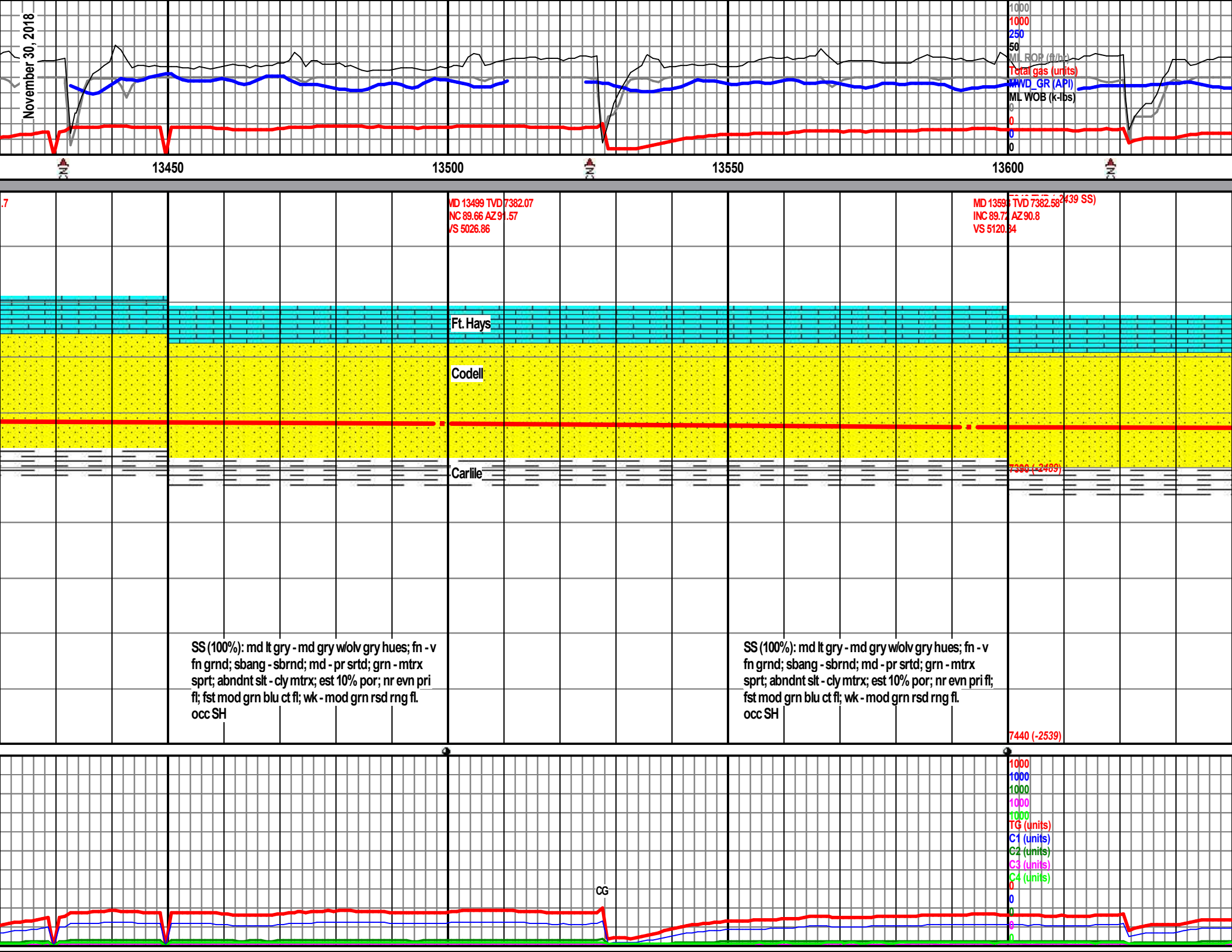
- Total gas (units)**: A red line representing gas volume.
- MWD\_GR (API)**: A blue line representing mud weight gradient.
- ML WOB (K-lbs)**: A black line representing motor load.

The geological formation is divided into three main sections:

- Ft. Hays**: The uppermost section, colored light blue.
- Codell**: The middle section, colored yellow.
- Carlile**: The lowermost section, colored white.

Key data points and annotations include:

- MD 13499 TVD 7382.07**, **NC 89.66 AZ 91.57**, **VS 5026.86**
- MD 13599 TVD 7382.58**, **INC 89.72**, **AZ 90.8**, **VS 5120.84**
- SS (100%): md lt gry - md gry wolv gry hues; fn - v fn grnd; sbang - sbrnd; md - pr srtd; grn - mtrx sprt; abndnt slt - cly mtrx; est 10% por; nr evn pri fl; fst mod grn blu ct fl; wk - mod grn rsd rng fl. occ SH**
- CG**: A label near the bottom of the plot.



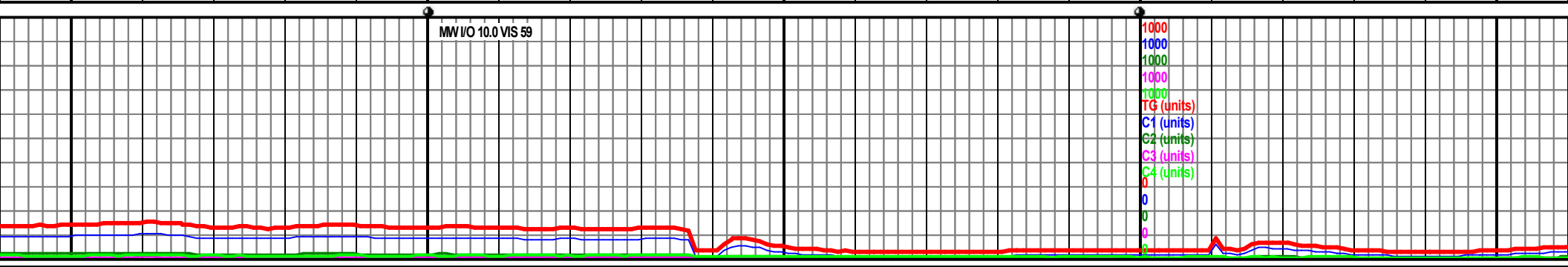
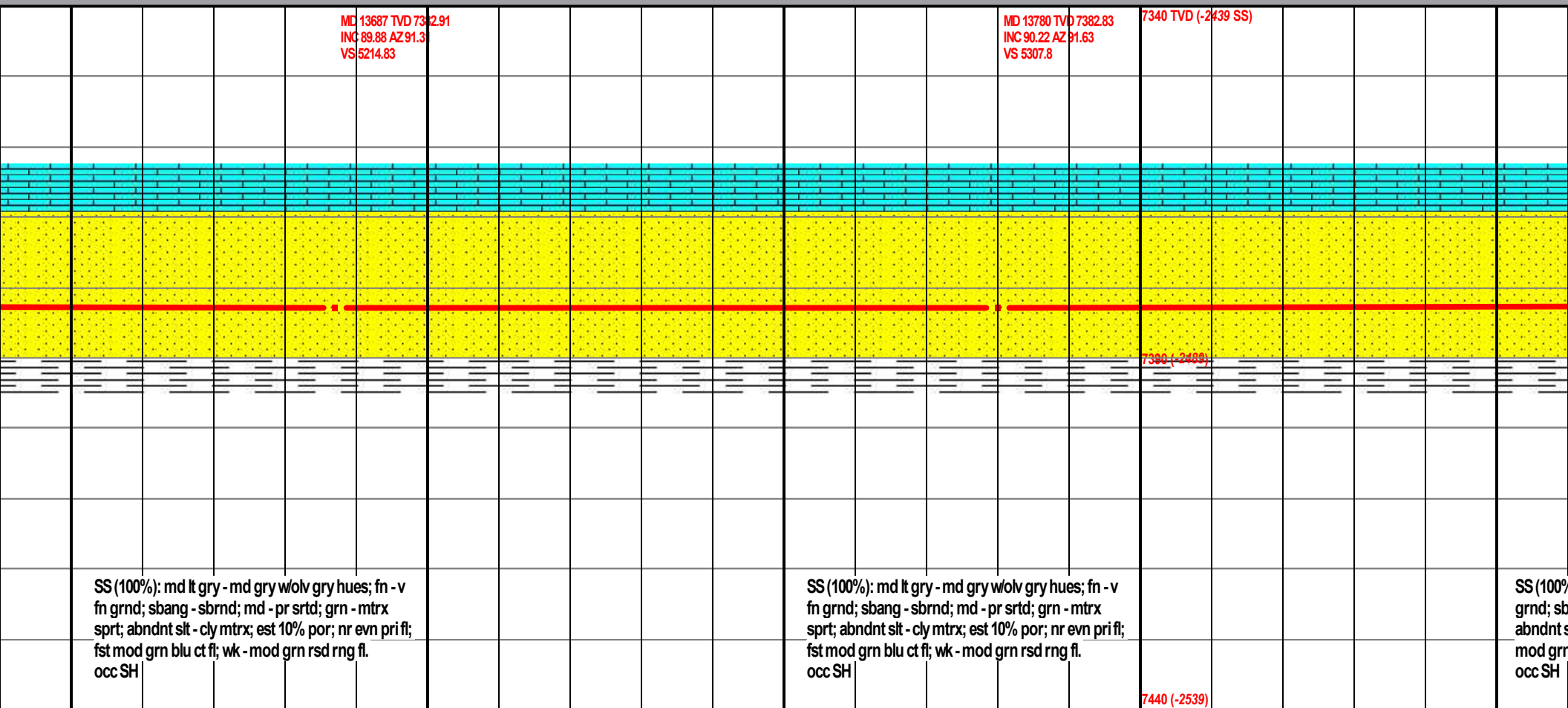
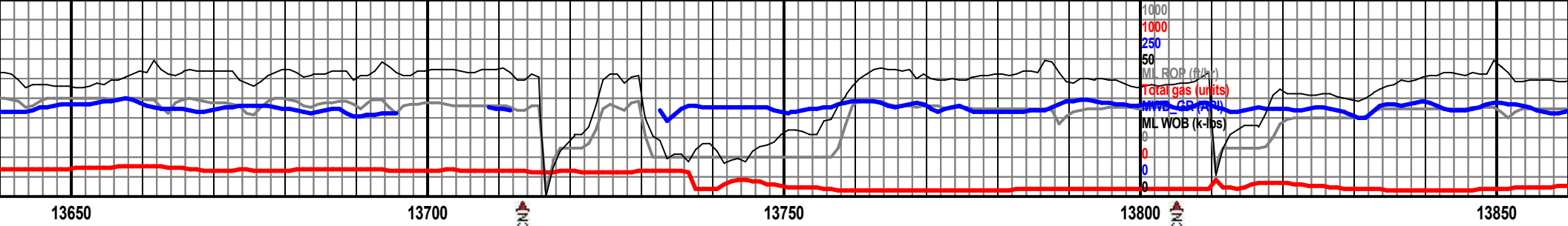
**Well Information:**  
 MD 13499 TVD 7382.07  
 NC 89.66 AZ 91.57  
 VS 5026.86

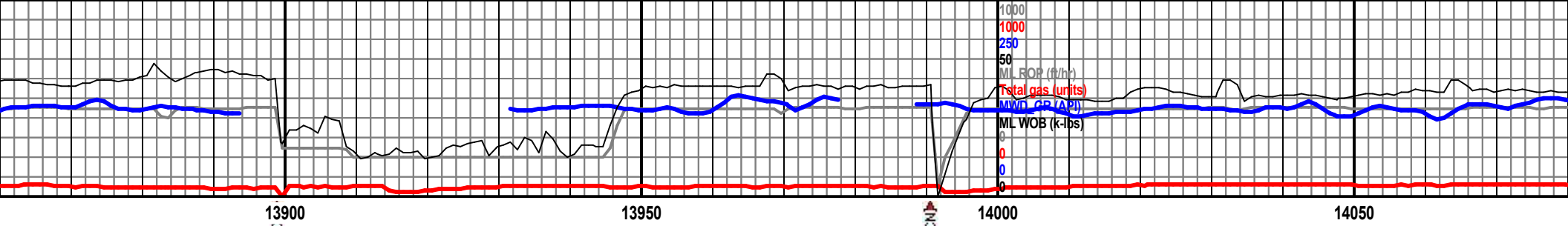
**Stratigraphic Column:**  
 The column shows three main units: **Ft. Hays** (top, light blue), **Codell** (middle, yellow), and **Carlile** (bottom, grey). A red line indicates the top of the Codell unit.

**Lithology Descriptions:**  
 SS (100%): md lt gry - md gry w/olv gry hues; fn - v fn grnd; sbang - sbrnd; md - pr srted; grn - mtrx sprt; abndnt slt - cly mtrx; est 10% por; nr evn pri fl; fst mod grn blu ct fl; wk - mod grn rsd rng fl. occ SH

**Data Plots:**  
 The top plot shows **Total gas (units)** (red line), **MLWD\_GR (API)** (blue line), and **ML WOB (K-lbs)** (black line). The bottom plot shows **TG (units)** (red line), **C1 (units)** (green line), **C2 (units)** (blue line), **C3 (units)** (magenta line), and **C4 (units)** (cyan line).

**Well Path:**  
 The well path is shown as a black line with a red arrow indicating the direction of drilling. The path starts at the surface and descends into the formation.





MD 13873 TVD 7382.62  
INC 90.03 AZ 91.99  
VS 5400.76

MD 13967 TVD 7382.55  
INC 90.06 AZ 92  
VS 5494.71

7340 TVD (-2439 SS)

MD 14061 TVD 7382.6  
INC 89.88 AZ 89.73  
VS 5588.69

Ft. Hays

Codell

7380 (-2488)  
Carlile

(%): md lt gry - md gry wolv gry hues; fn - v fn  
sbgang - sbgrnd; md - pr srted; grn - mtrx sprt;  
slit - cly mtrx; est 10% por; nr evn pri fl; fst  
mod grn blu ct fl; wk - mod grn rsd rng fl.

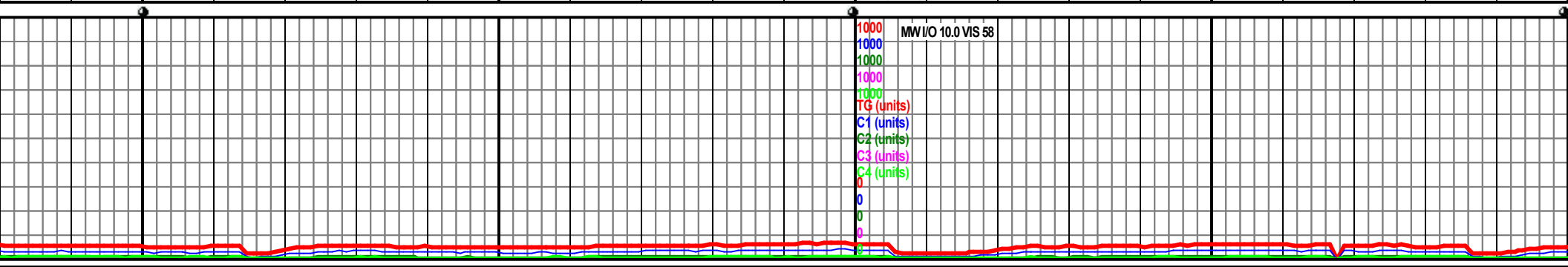
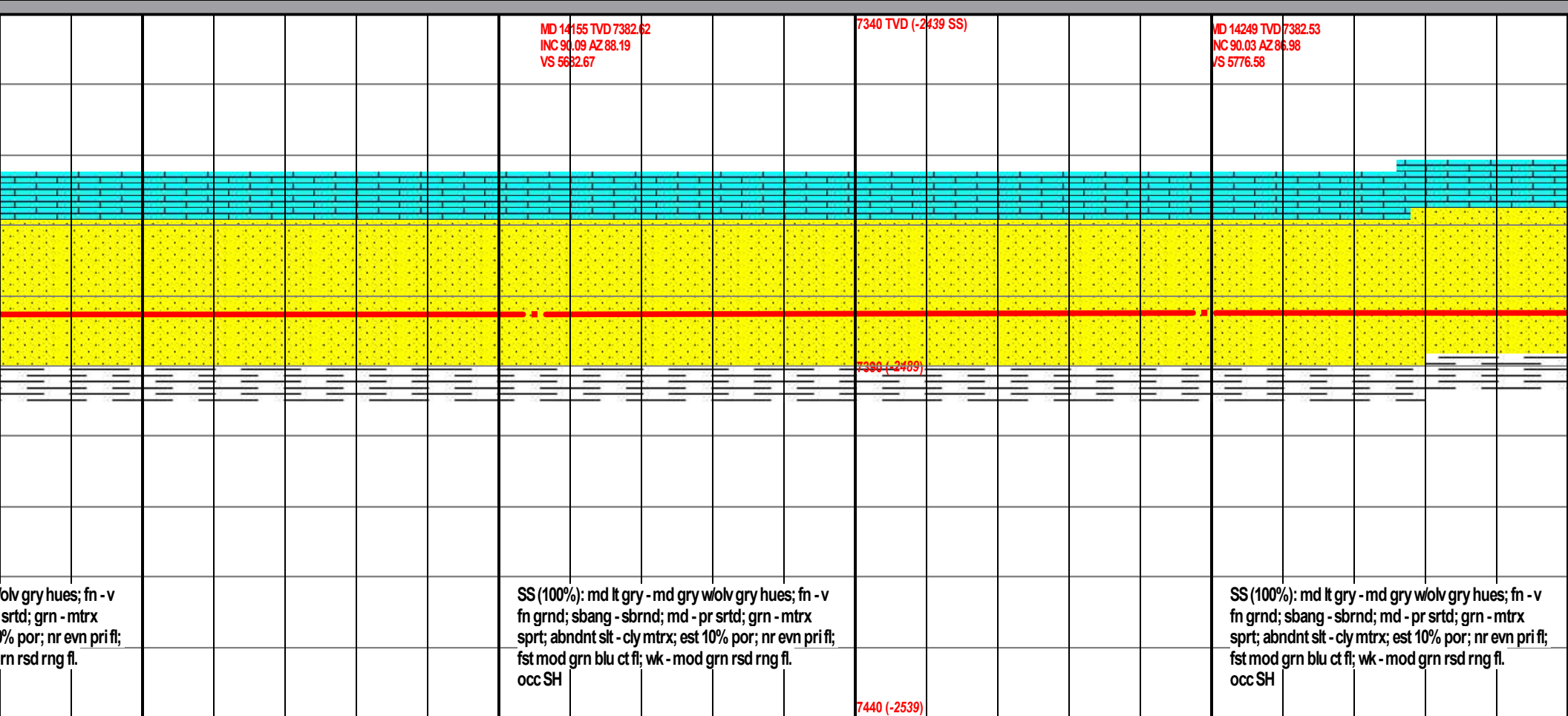
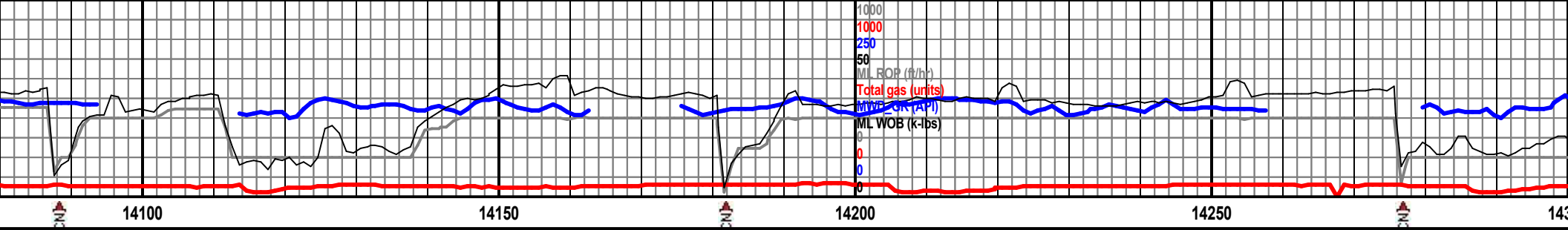
SS (100%): md lt gry - md gry wolv gry hues; fn - v fn  
grnd; sbang - sbgrnd; md - pr srted; grn - mtrx sprt;  
abndnt slit - cly mtrx; est 10% por; nr evn pri fl; fst  
mod grn blu ct fl; wk - mod grn rsd rng fl.  
occ SH

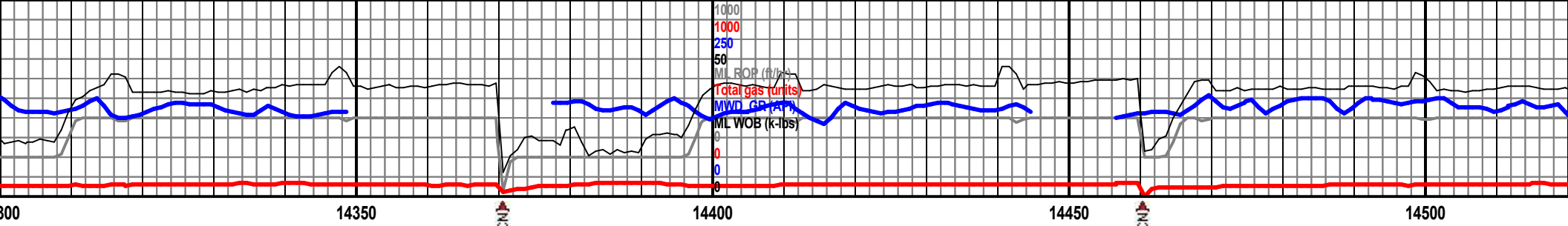
SS (100%): md lt gry - md gry wolv gry hues; fn - v fn  
grnd; sbang - sbgrnd; md - pr srted; grn - mtrx sprt;  
abndnt slit - cly mtrx; est 10% por; nr evn pri fl; fst  
mod grn blu ct fl; wk - mod grn rsd rng fl.  
occ SH

7440 (-2539)

1000 MW I/O 10.0 VIS 59  
1000  
1000  
1000  
1000  
1000  
1000  
TG (units)  
C1 (units)  
C2 (units)  
C3 (units)  
C4 (units)



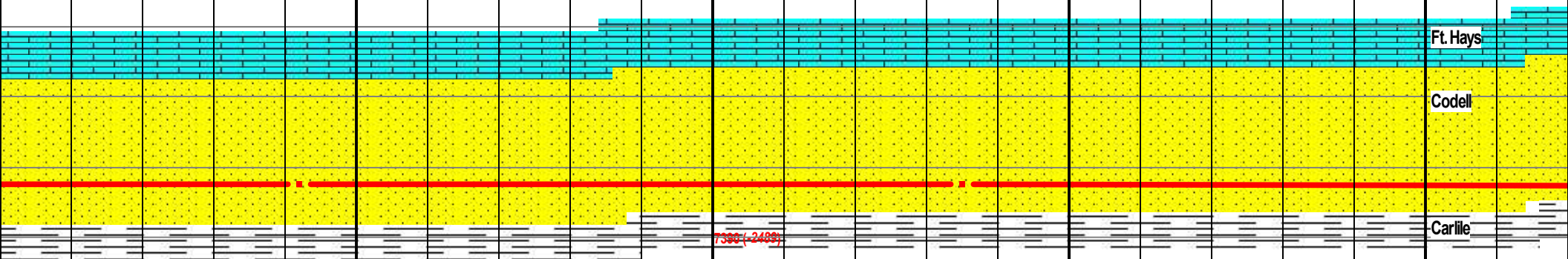




MD 14342 TVD 7382.55  
INC 89.94 AZ 86.63  
VS 5869.42

7340 TVD (-2439 SS)

MD 14435 TVD 7382.55  
INC 90.06 AZ 87.47  
VS 5962.29

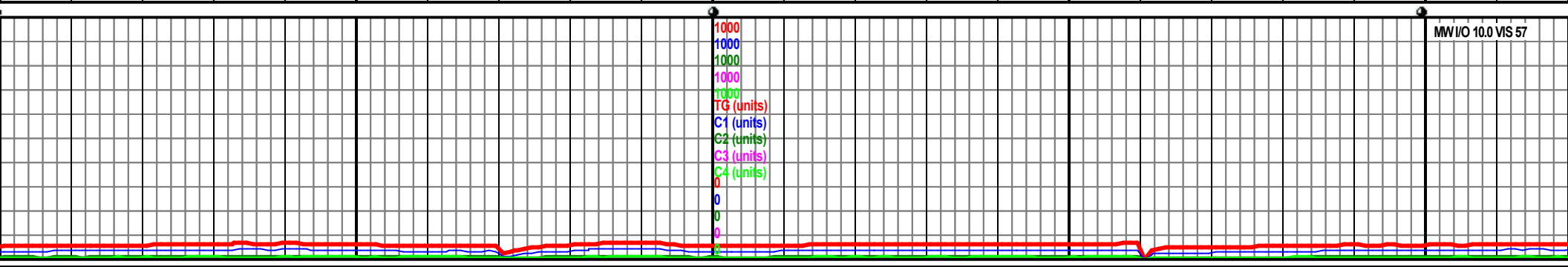


7390 (-2488)

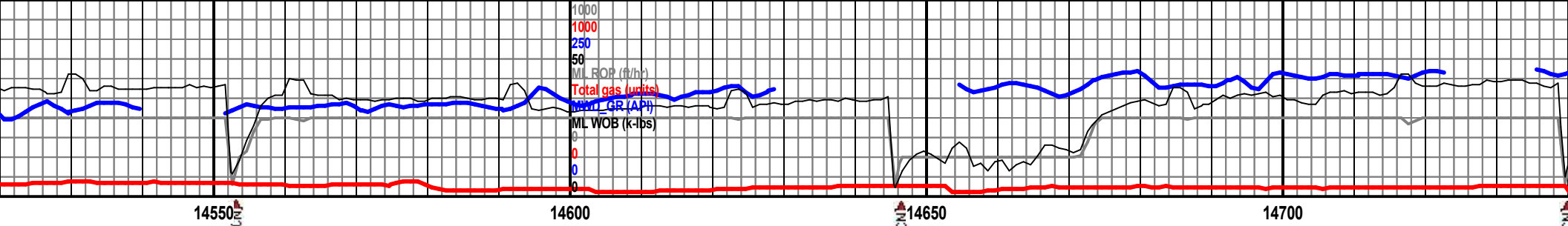
SS (100%): md lt gry - md gry wolv gry hues; fn - v  
fn grnd; sbang - sbrnd; md - pr srted; grn - mtrx  
sprt; abndnt slt - cly mtrx; est 10% por; nr evn pri  
fl; fst mod grn blu ct fl; wk - mod grn rsd rng fl.  
occ SH

SS (100%): md lt gry - md gry wolv gry hues; fn - v fn  
grnd; sbang - sbrnd; md - pr srted; grn - mtrx sprt;  
abndnt slt - cly mtrx; est 10% por; nr evn pri fl; fst  
mod grn blu ct fl; wk - mod grn rsd rng fl.  
occ SH

7440 (-2539)



MW I/O 10.0 VIS 57

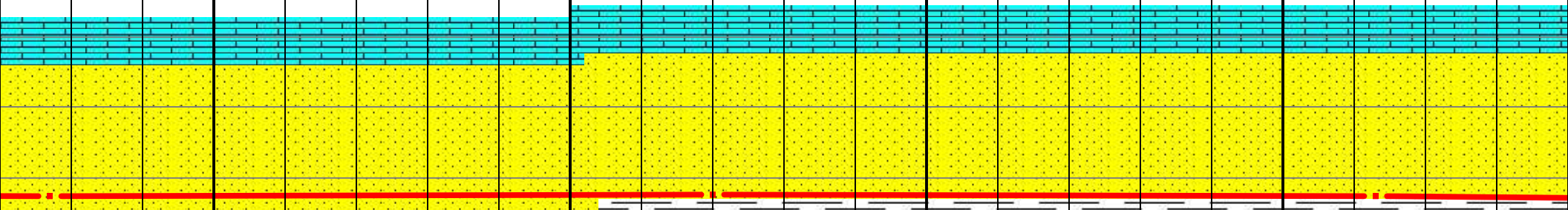


MD 14527 TVD 7382.57  
INC 89.91 AZ 89.32  
VS 6054.25

7340 TVD (-2439 SS)

MD 14620 TVD 7382.47  
INC 90.22 AZ 90.37  
VS 6147.25

MD 14713 TVD 7382.74  
INC 89.45 AZ 90.17  
VS 6240.24

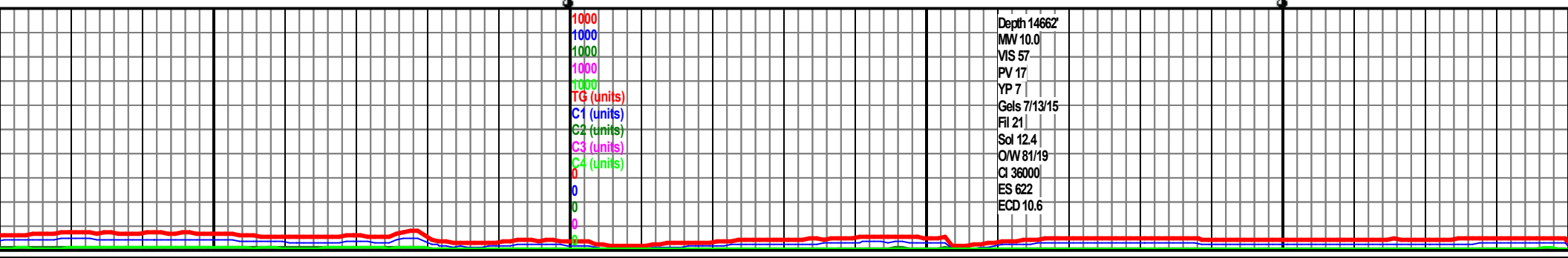


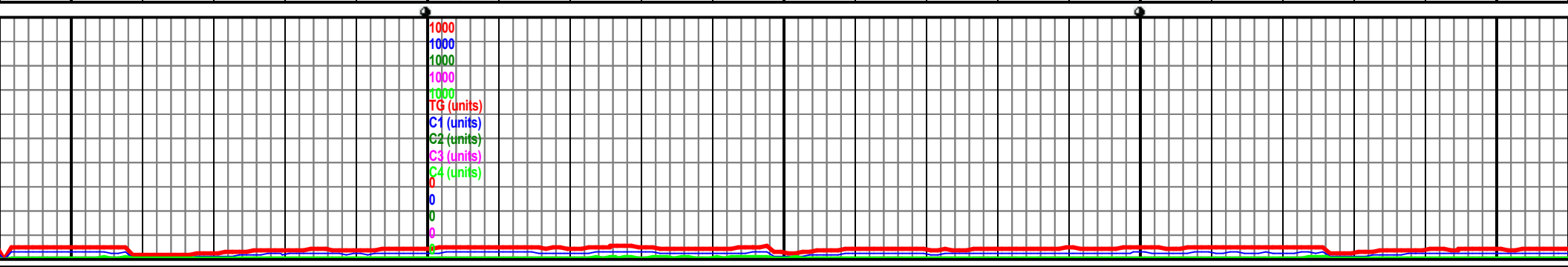
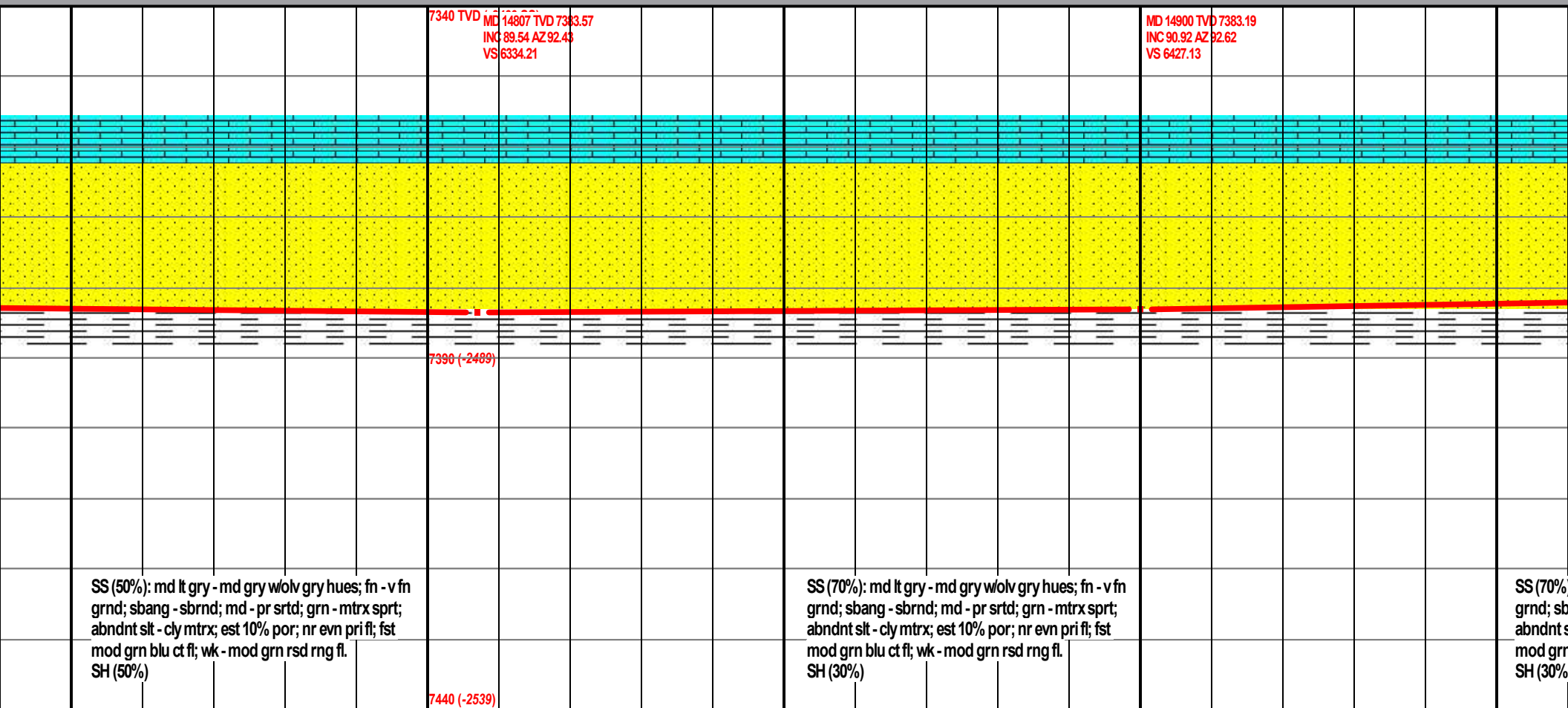
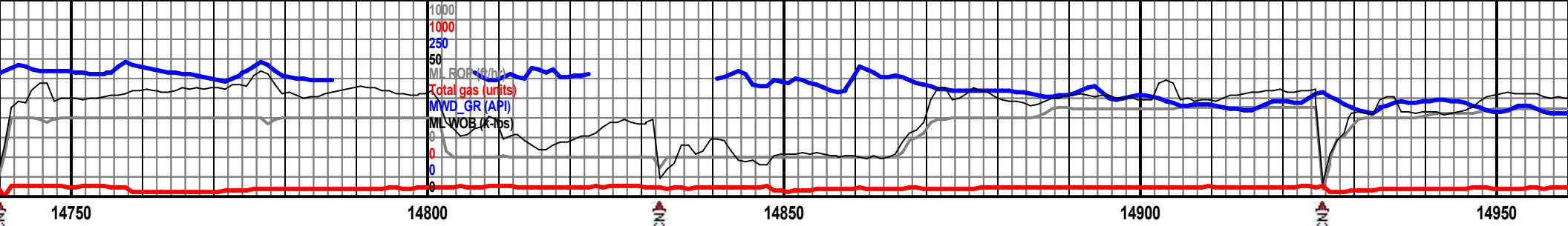
7390 (-2489)

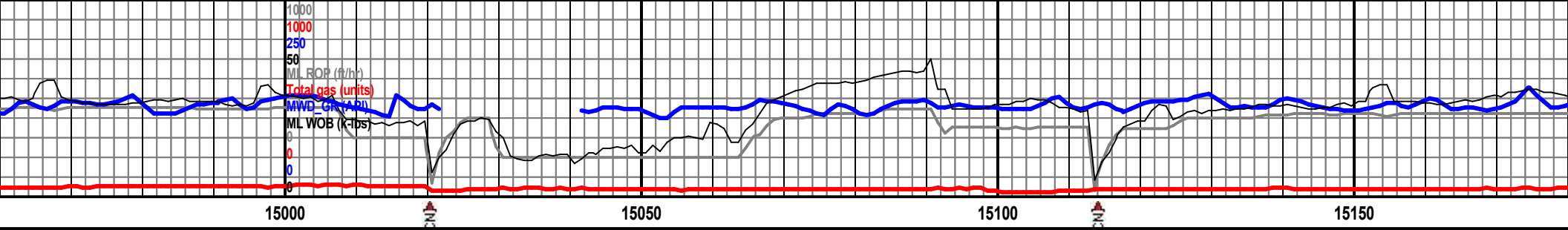
SS (100%): md lt gry - md gry wolv gry hues; fn - v  
fn grnd; sbang - sbrnd; md - pr srt; grn - mtrx  
sprt; abndnt slt - cly mtrx; est 10% por; nr evn pri  
fl; fst mod grn blu ct fl; wk - mod grn rsd rng fl.  
occ SH

SS (90%): md lt gry - md gry wolv gry hues; fn - v fn  
grnd; sbang - sbrnd; md - pr srt; grn - mtrx sprt;  
abndnt slt - cly mtrx; est 10% por; nr evn pri fl; fst  
mod grn blu ct fl; wk - mod grn rsd rng fl.  
SH (10%)

7440 (-2539)







MD 14994 TVD 7381.53 (39 SS)  
INC 91.1 AZ 92.74  
VS 652.02

MD 15087 TVD 7381.29  
INC 89.2 AZ 91.62  
VS 6613.95

Ft. Hays

Codell

Carile

7396 (-2489)

md lt gry - md gry w/olv gry hues; fn - v fn  
sbang - sbnd; md - pr srt; grn - mtrx sprt;  
slt - cly mtrx; est 10% por; nr evn pri fl; fst  
mod grn blu ct fl; wk - mod grn rsd rng fl.

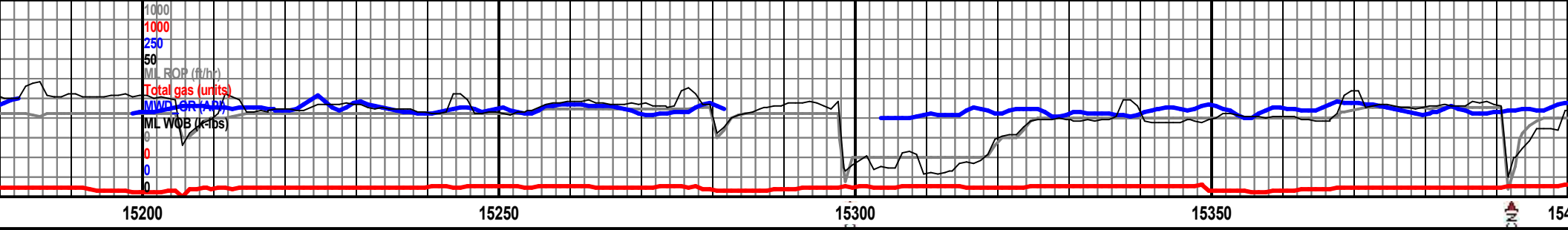
SS (90%): md lt gry - md gry w/olv gry hues; fn - v  
fn grnd; sbang - sbnd; md - pr srt; grn - mtrx  
sprt; abndnt slt - cly mtrx; est 10% por; nr evn pri fl;  
fst mod grn blu ct fl; wk - mod grn rsd rng fl.  
SH (10%)

SS (100%): md lt gry - md gry w/olv gry hues; fn - v  
fn grnd; sbang - sbnd; md - pr srt; grn - mtrx  
sprt; abndnt slt - cly mtrx; est 10% por; nr evn pri fl;  
fst mod grn blu ct fl; wk - mod grn rsd rng fl.  
com SH

7440 (-2539)

MW I/O 10.0 VIS 57

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

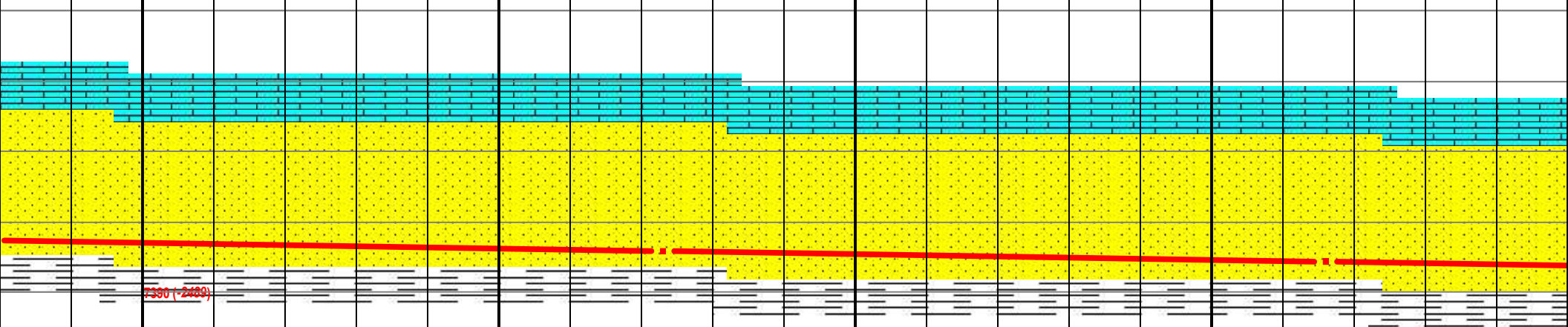


MD 15179 TVD 7382.66  
INC 89.1 AZ 89.84  
VS 6705.93

7340 TVD (-2439 SS)

MD 15273 TVD 7384.21  
INC 89.01 AZ 86.78  
VS 6799.86

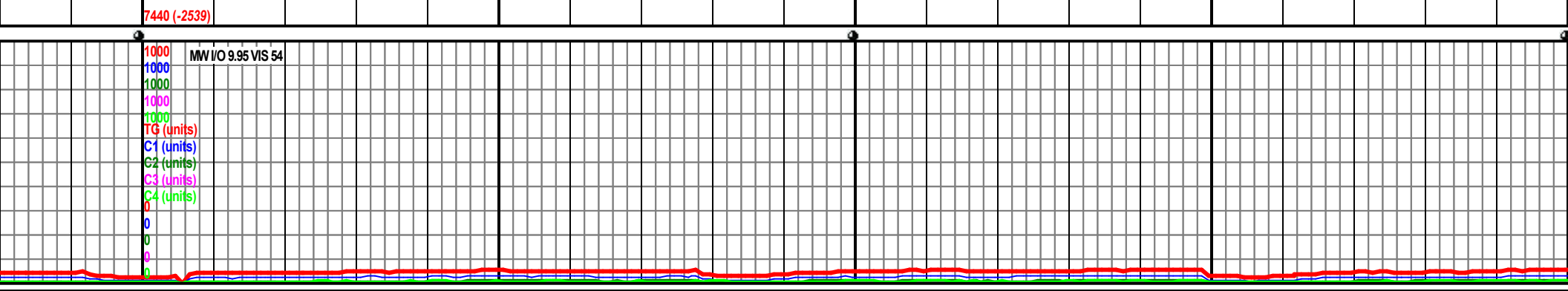
MD 15366 TVD 7388.74  
INC 89.1 AZ 85.99  
VS 6892.65

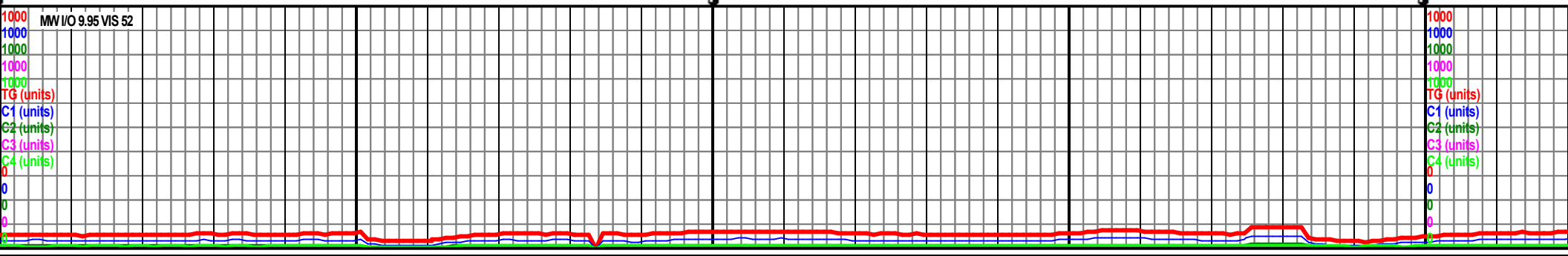
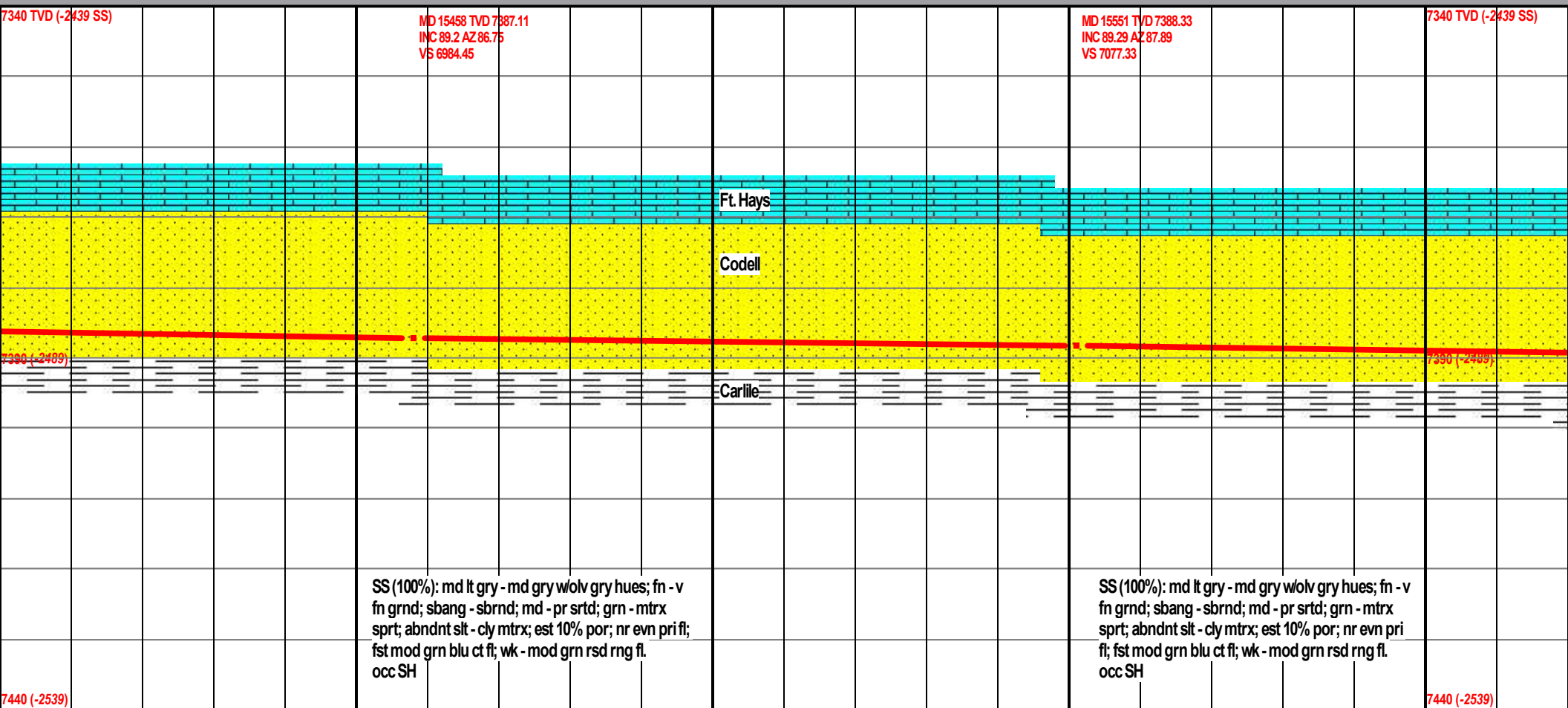
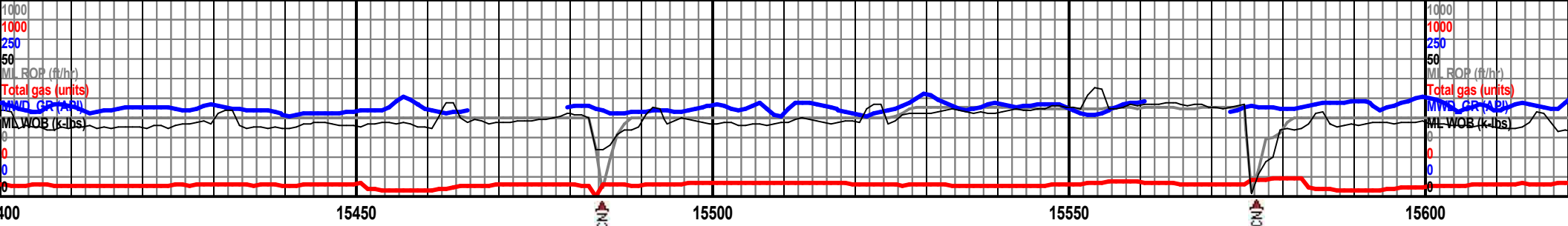


volv gry hues; fn - v  
srted; grn - mtrx  
10% por; nr evn pri  
d grn rsd rng fl.

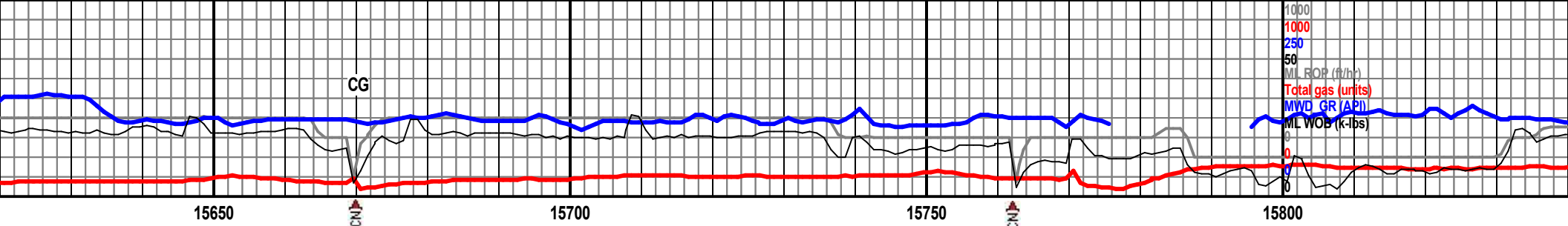
SS (100%): md lt gry - md gry wolv gry hues; fn - v  
fn grnd; sbang - sbrnd; md - pr srted; grn - mtrx  
sprt; abndnt slt - cly mtrx; est 10% por; nr evn pri  
ft; fst mod grn blu ct ft; wk - mod grn rsd rng fl.  
occ SH

SS (100%): md lt gry - md gry wolv gry hues; fn - v  
fn grnd; sbang - sbrnd; md - pr srted; grn - mtrx  
sprt; abndnt slt - cly mtrx; est 10% por; nr evn pri  
ft; fst mod grn blu ct ft; wk - mod grn rsd rng fl.  
occ SH









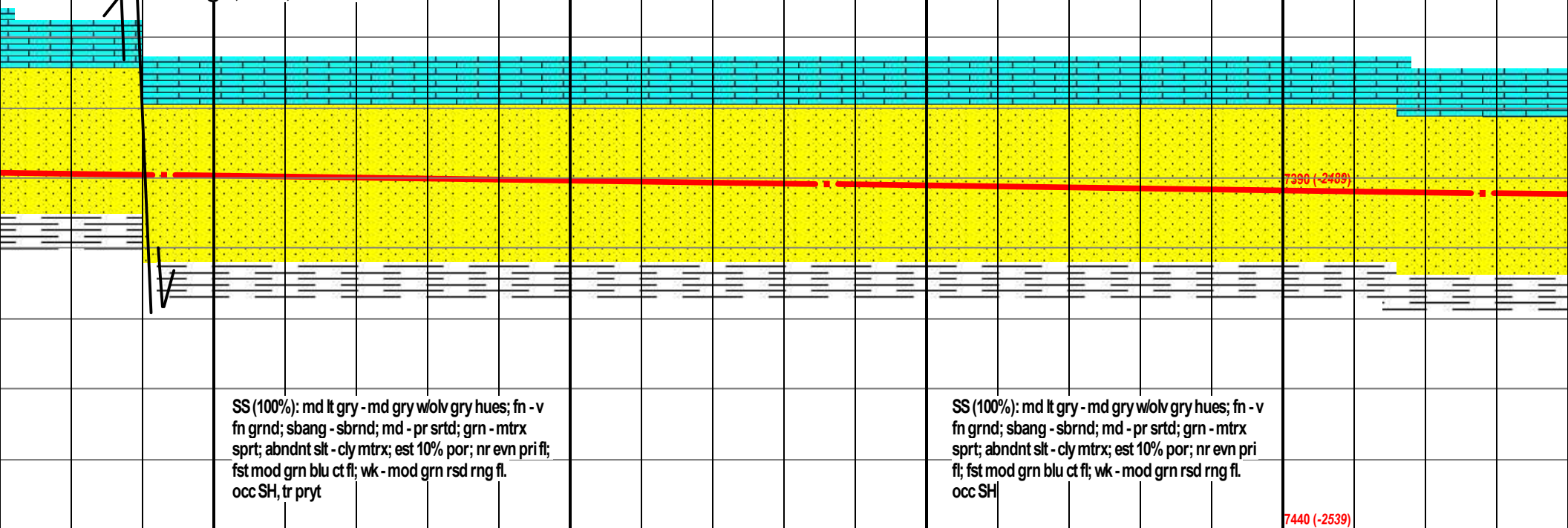
MD 15641 TVD 7389.58  
INC 89.16 AZ 89.06  
VS 7169.28

MD 15736 TVD 7391.91  
INC 89.2 AZ 90.82  
VS 7262.27

7340 TVD (-2439 SS)

MD 15828 TVD 7391.91  
INC 89.29 AZ 91.1  
VS 7354.25

Fault #4 @ 15,635' MD, 8' Down Throw

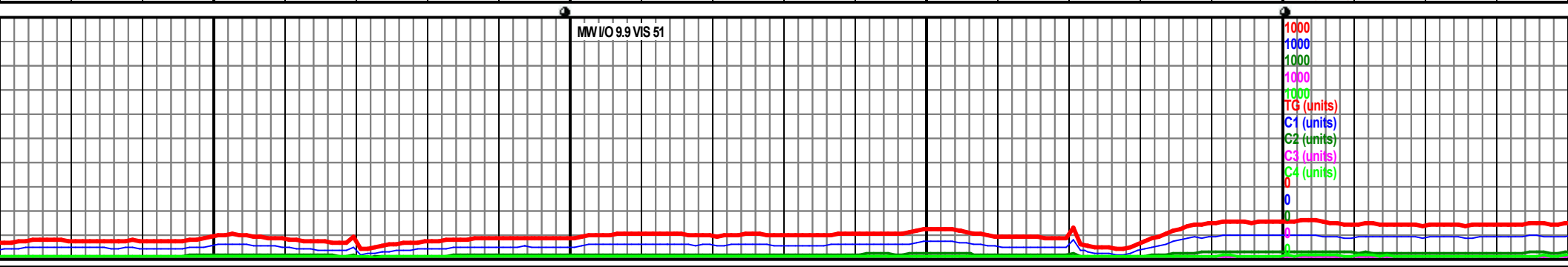


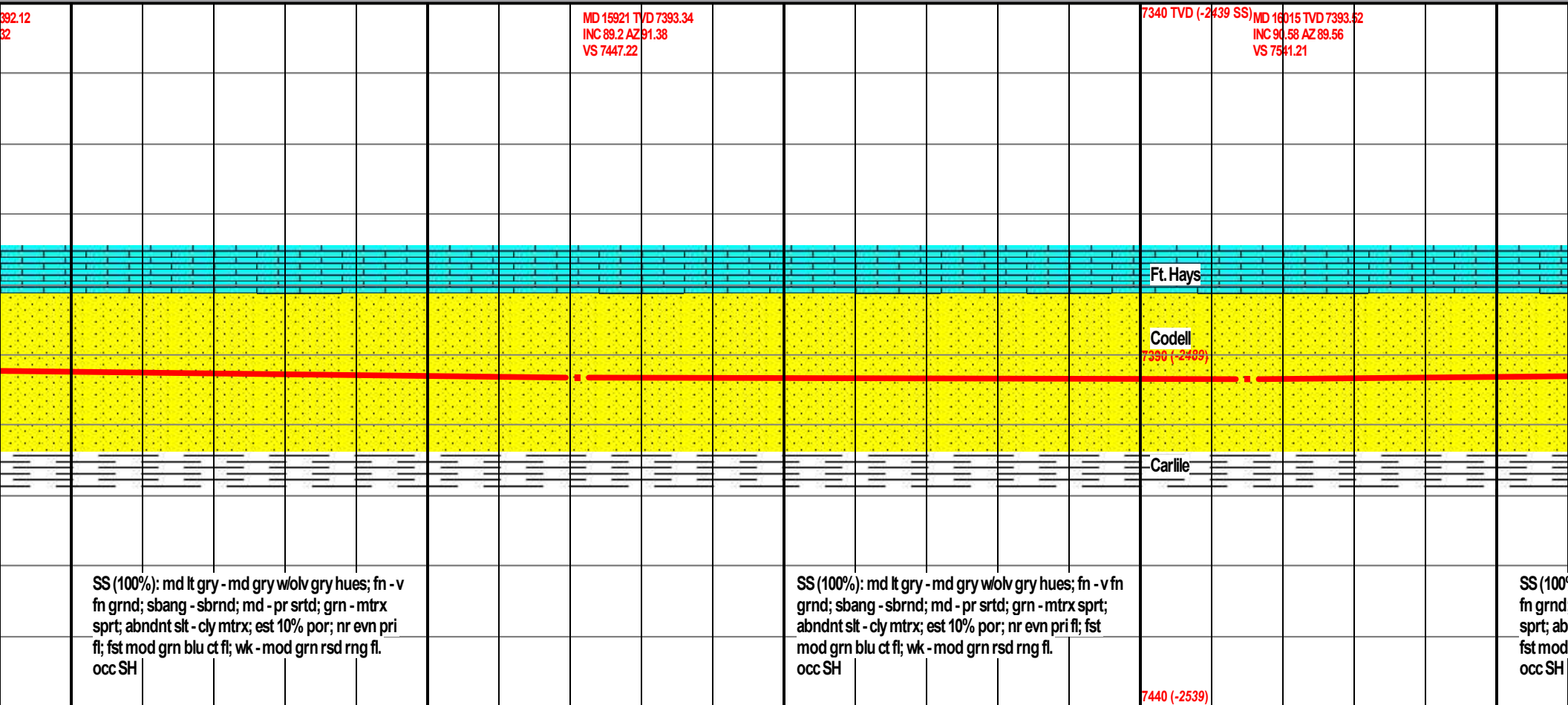
SS (100%): md lt gry - md gry wolv gry hues; fn - v  
fn grnd; sbang - sbrnd; md - pr srt; grn - mtrx  
sprt; abndnt slt - cly mtrx; est 10% por; nr evn pri fl;  
fst mod grn blu ct fl; wk - mod grn rsd rng fl.  
occ SH, tr pryt

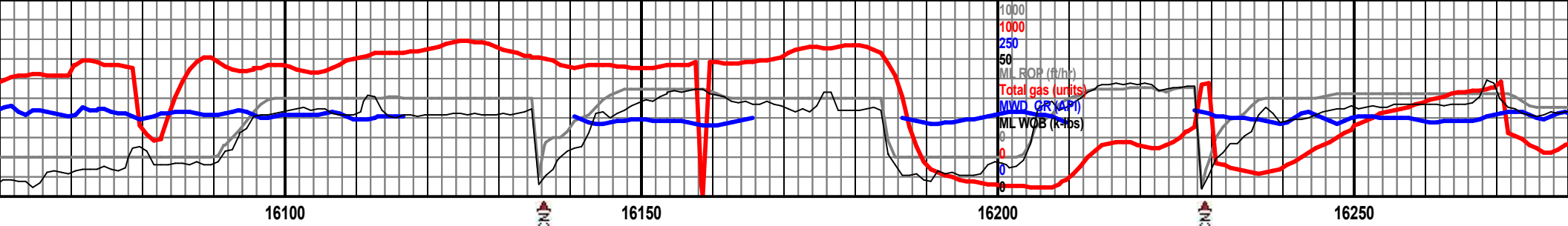
SS (100%): md lt gry - md gry wolv gry hues; fn - v  
fn grnd; sbang - sbrnd; md - pr srt; grn - mtrx  
sprt; abndnt slt - cly mtrx; est 10% por; nr evn pri  
fl; fst mod grn blu ct fl; wk - mod grn rsd rng fl.  
occ SH

MW I/O 9.9 VIS 51

7440 (-2539)

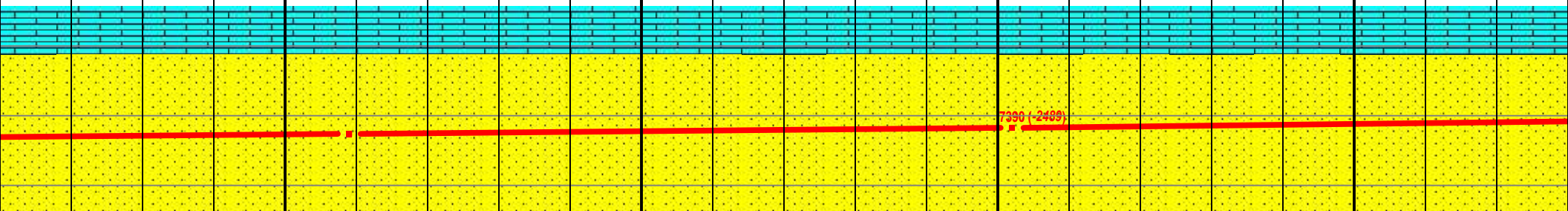






MD 16109 TVD 7392.6  
INC 90.55 AZ 86.69  
VS 7635.14

MD 16202 TVD 7391.66  
INC 90.61 AZ 86.13  
VS 7727.94

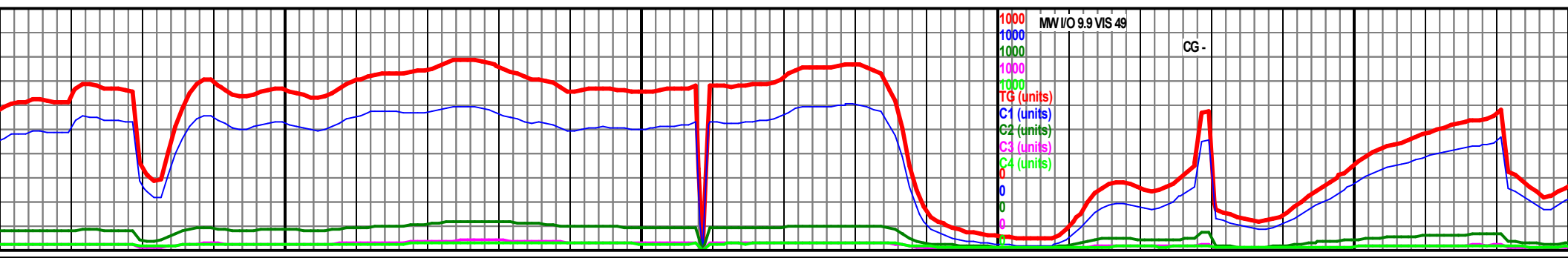


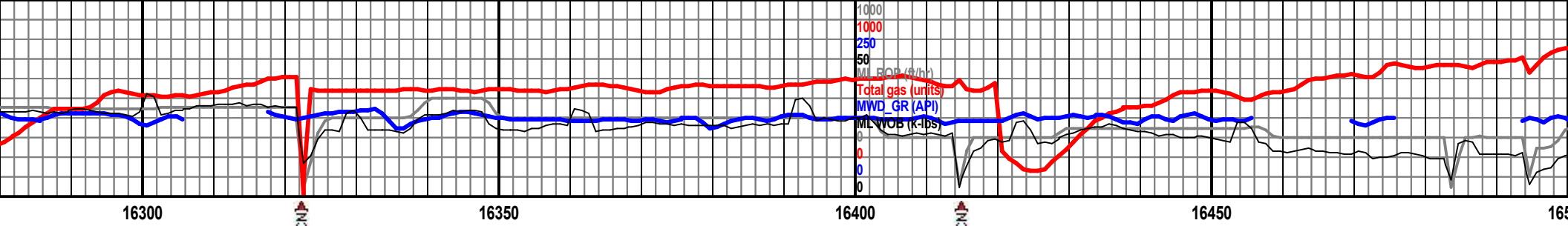
SS (100%): md lt gry - md gry w/olv gry hues; fn - v  
sbang - sbrnd; md - pr srted; grn - mtrx  
abndnt slt - cly mtrx; est 10% por; nr evn pri fl;  
grn blu ct fl; wk - mod grn rsd rng fl.

SS (100%): md lt gry - md gry w/olv gry hues; fn - v  
fn grnd; sbang - sbrnd; md - pr srted; grn - mtrx  
sprt; abndnt slt - cly mtrx; est 10% por; nr evn pri  
fl; fst mod grn blu ct fl; wk - mod grn rsd rng fl.  
occ SH

SS (100%): md lt gry - md gry w/olv gry hues; fn - v  
fn grnd; sbang - sbrnd; md - pr srted; grn - mtrx  
sprt; abndnt slt - cly mtrx; est 10% por; nr evn pri  
fl; fst mod grn blu ct fl; wk - mod grn rsd rng fl.  
occ SH

7440 (-2539)

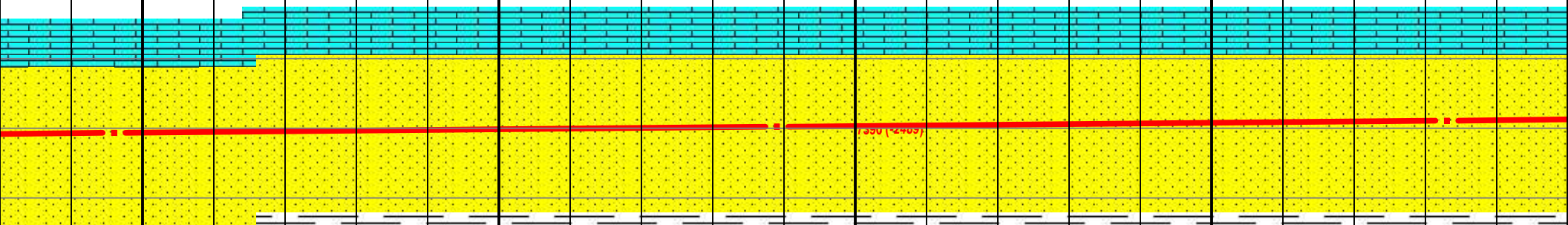




MD 16296 TVD 7390.66  
INC 90.61 AZ 86.13  
VS 7821.71

MD 16389 TVD 7389.74  
INC 90.52 AZ 84.6  
VS 7914.59

MD 16483 TVD 7388.86  
INC 90.53 AZ 89.96  
VS 8008.72

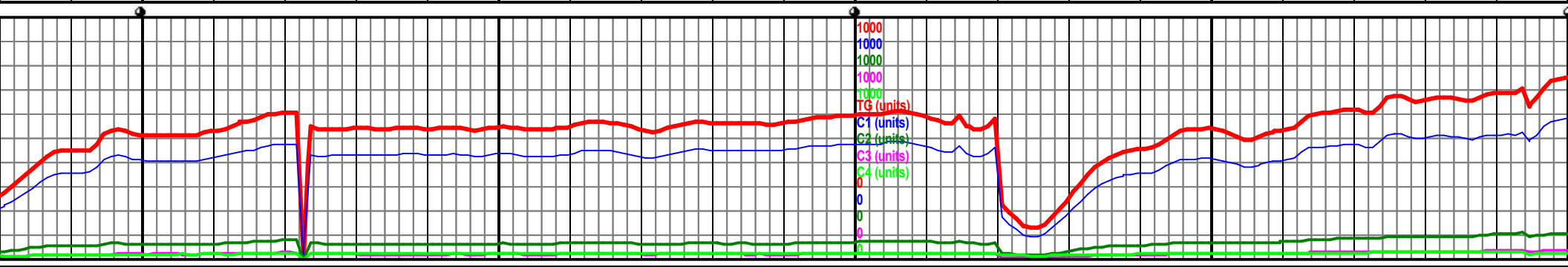


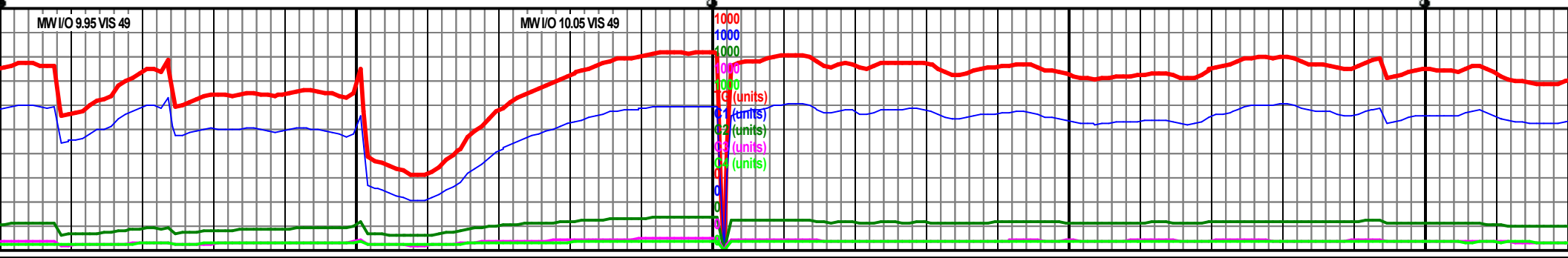
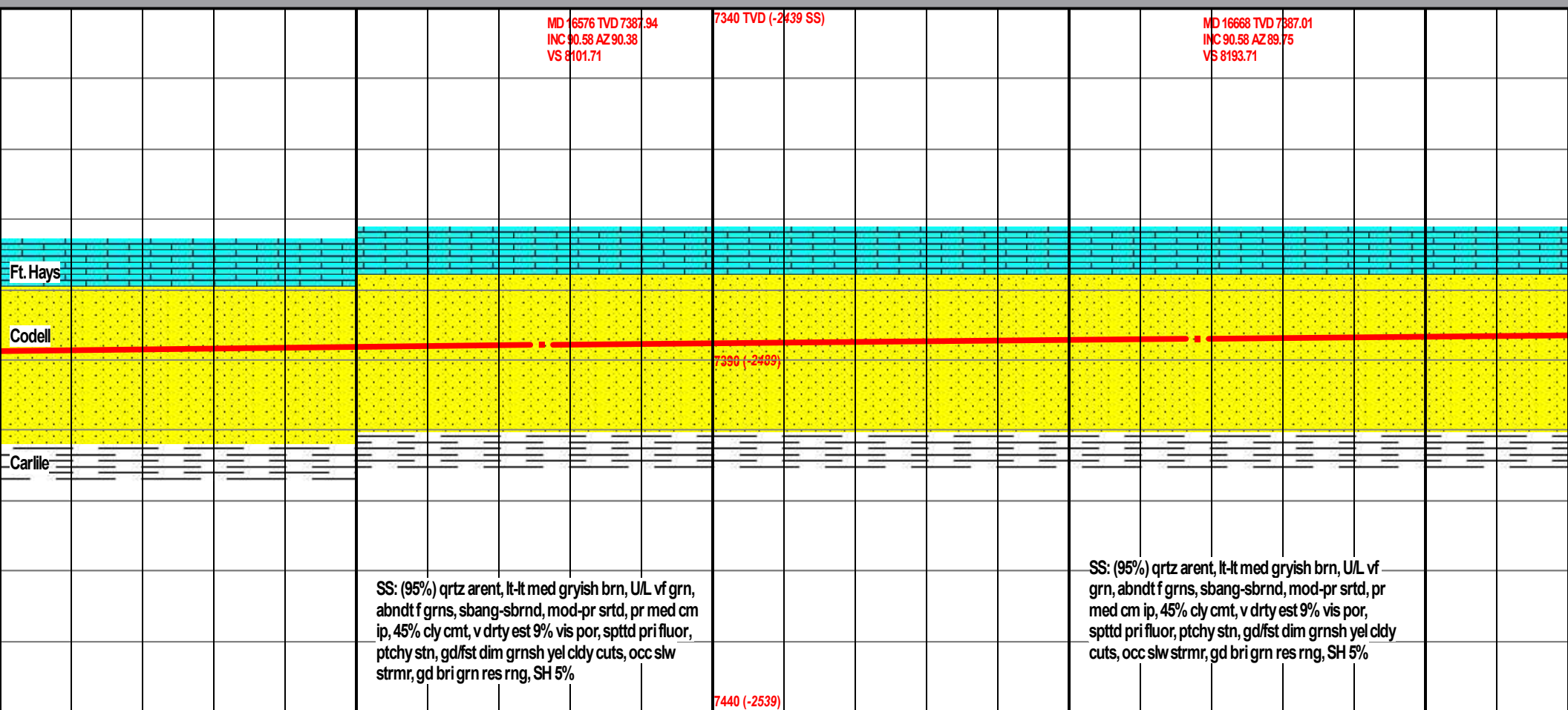
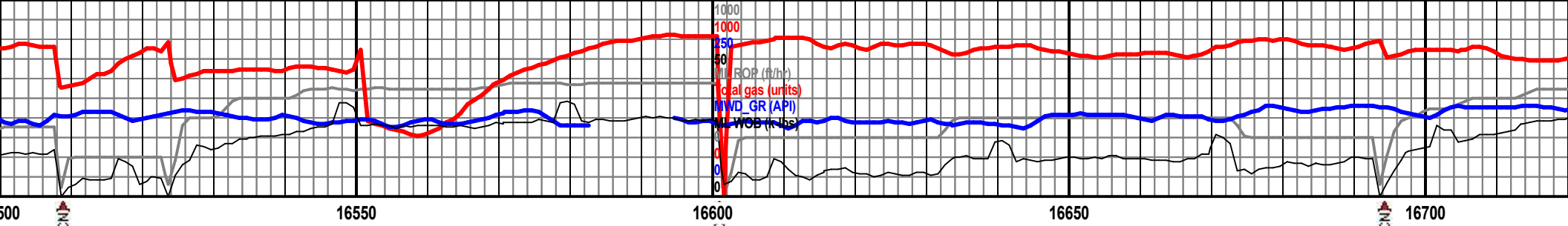
md lt gry hues; fn - v  
srtd; grn - mtrx  
% por; nr evn pri fl;  
rn rsd rng fl.

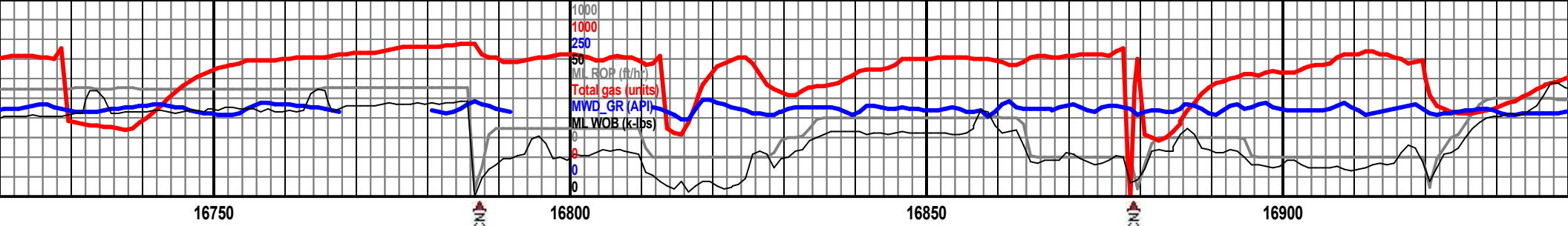
SS (100%): md lt gry - md gry wolv gry hues;  
fn - v fn grnd; sbang - sbrnd; md - pr srtd; grn  
- mtrx sprt; abndnt slt - cly mtrx; est 10% por;  
nr evn pri fl; fst mod grn blu ct fl; wk - mod grn  
rsd rng fl.  
occ SH

SS (100%): md lt gry - md gry wolv gry  
hues; fn - v fn grnd; sbang - sbrnd; md - pr  
srtd; grn - mtrx sprt; abndnt slt - cly mtrx;  
est 10% por; nr evn pri fl; fst mod grn blu ct  
fl; wk - mod grn rsd rng fl.  
occ SH

7440 (-2539)







MD 16761 TVD 7386.05  
INC 90.61 AZ 88.39  
VS 8286.69

7340 TVD (-2439 SS)

MD 16854 TVD 7385.06  
INC 90.61 AZ 88.95  
VS 8379.65

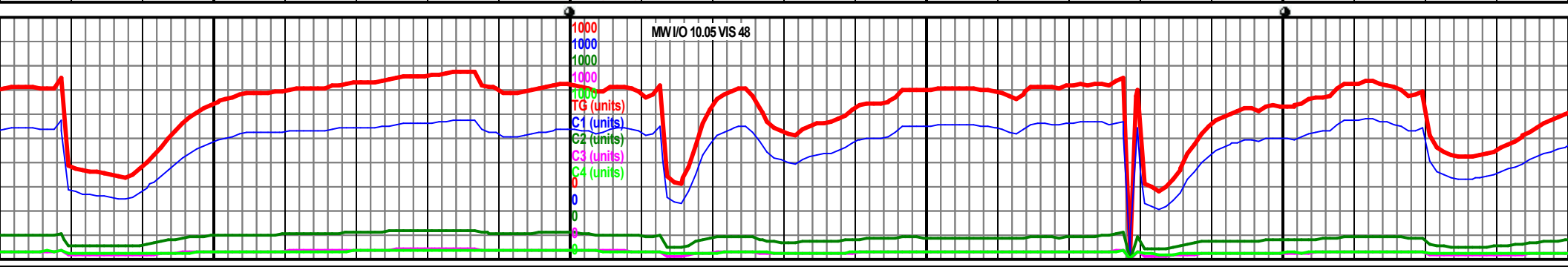
7390 (-2489)

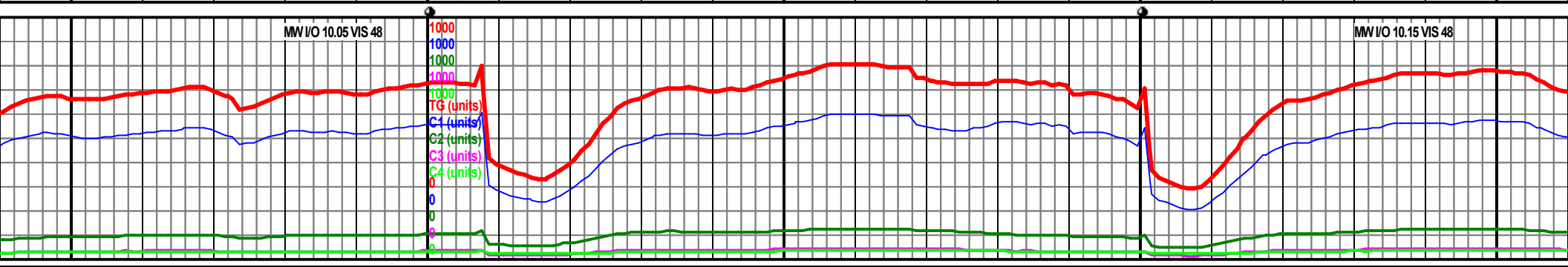
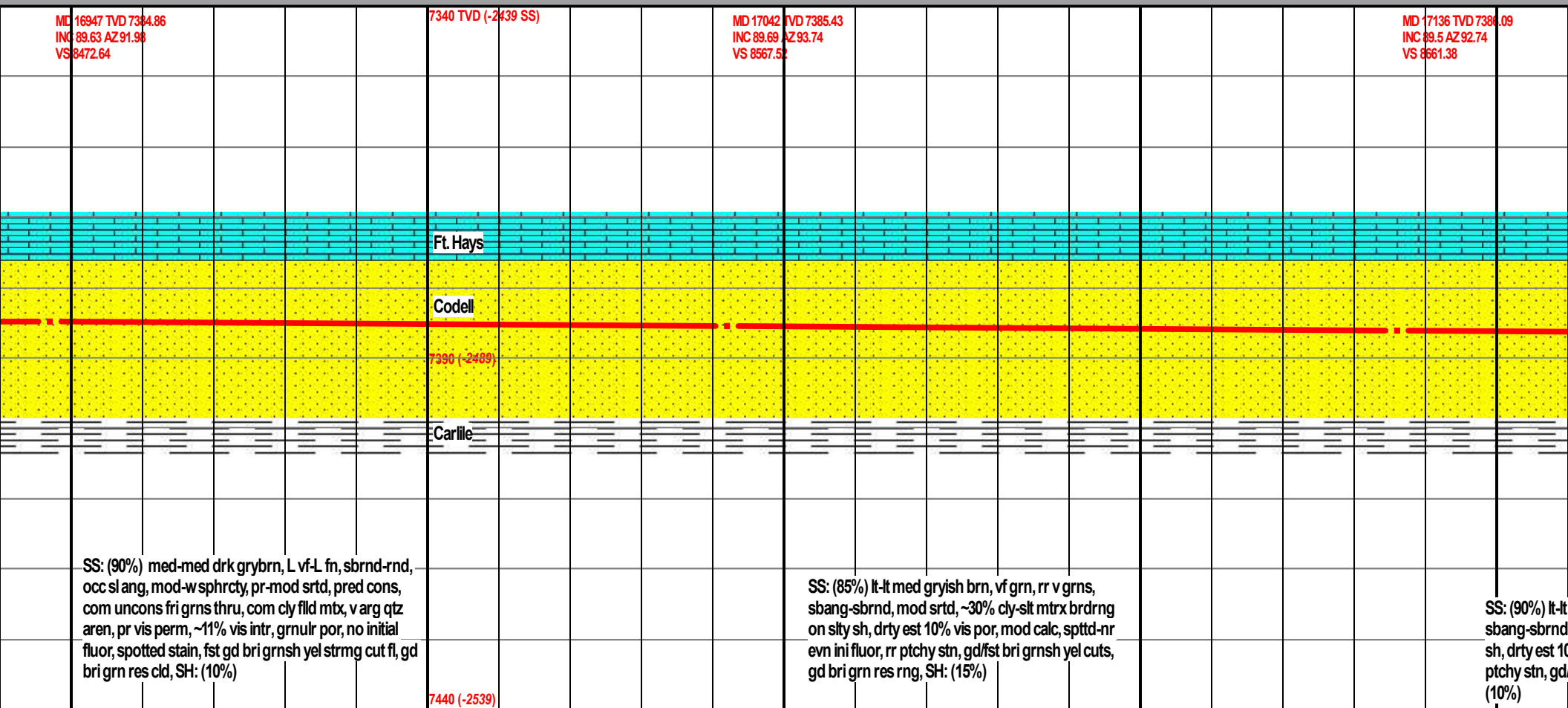
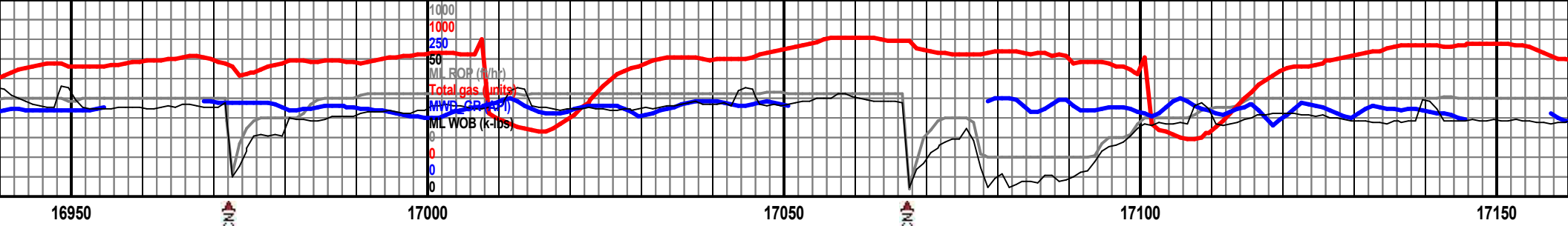
SS: (100%) med-med drk grybrn, L vf-L fn, sbrnd-rnd, occ sl ang, mod-w sphrcty, pr-mod srted, pred cons, com uncon s fri grns thru, cly fld mtz, v arg qtz aren, pr vis perm, ~10% vis intr, grnldr por, no initial fluor, spotted stain, fst gd bri grnsh yel strmg cut fl, gd bri grn res cld

SS: (95%) med-med drk grybrn, L vf-L fn, sbrnd-rnd, occ sl ang, mod-w sphrcty, pr-mod srted, pred cons, com uncon s fri grns thru, com cly fld mtz, v arg qtz aren, pr vis perm, ~11% vis intr, grnldr por, no initial fluor, spotted stain, fst gd bri grnsh yel strmg cut fl, gd bri grn res cld, SH: (5%)

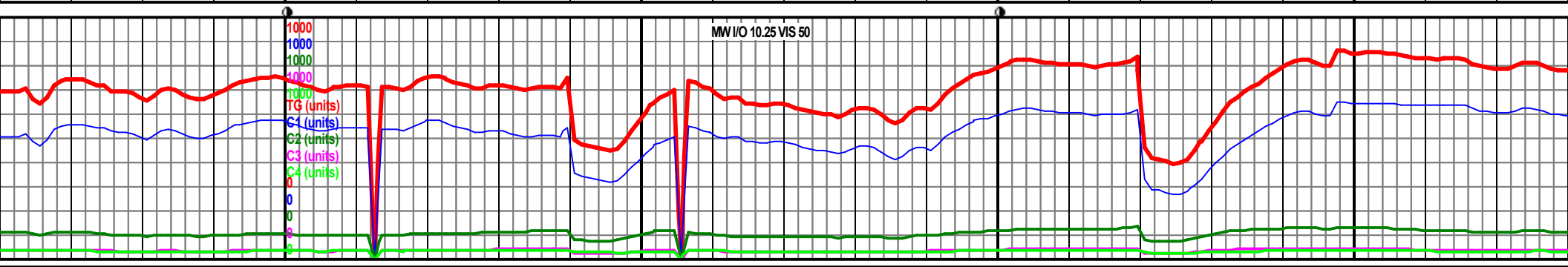
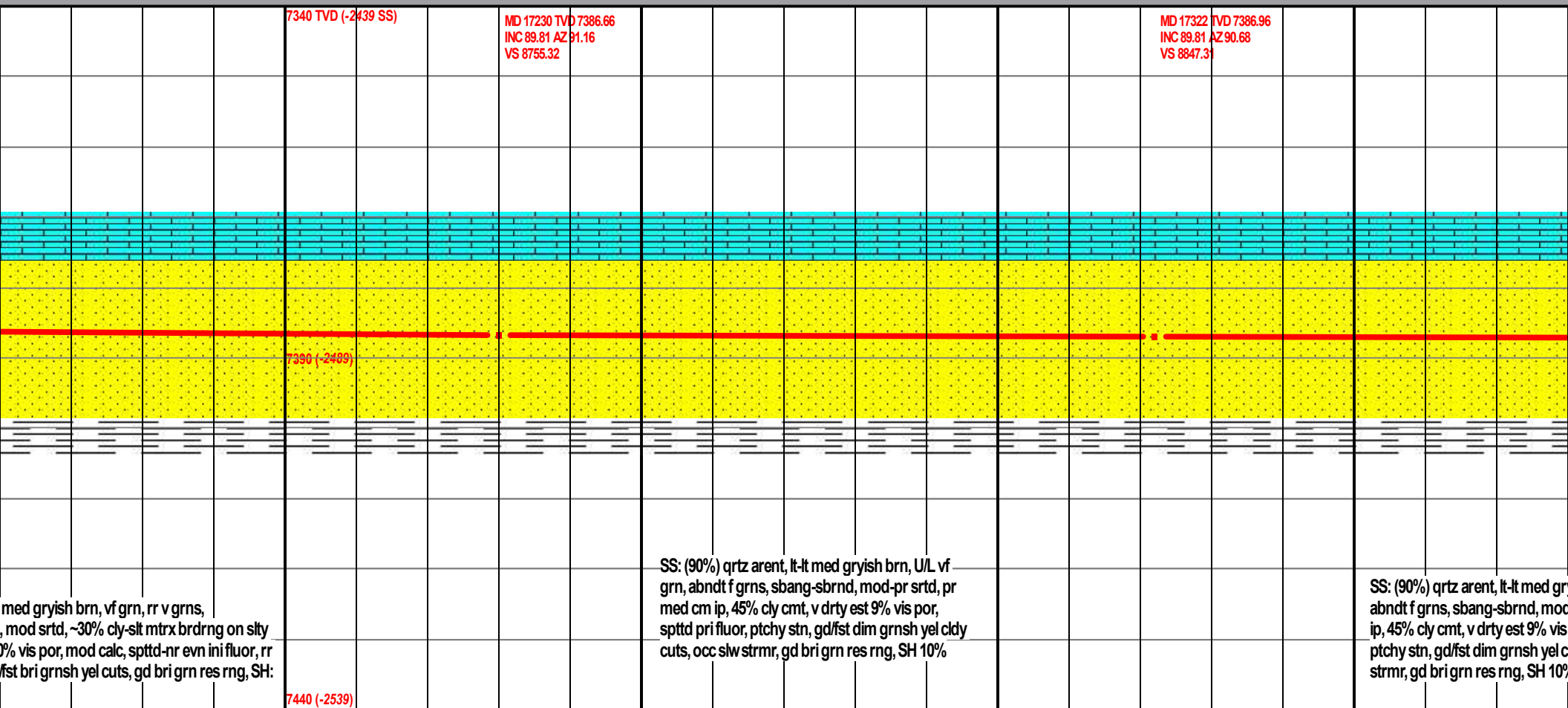
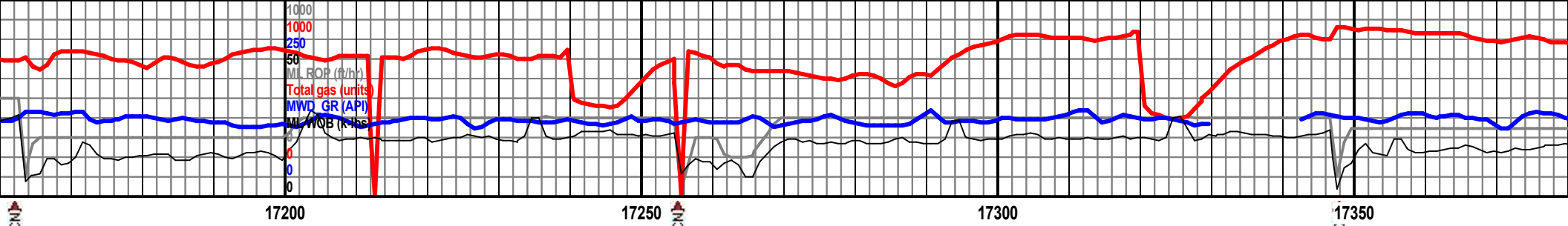
7440 (-2539)

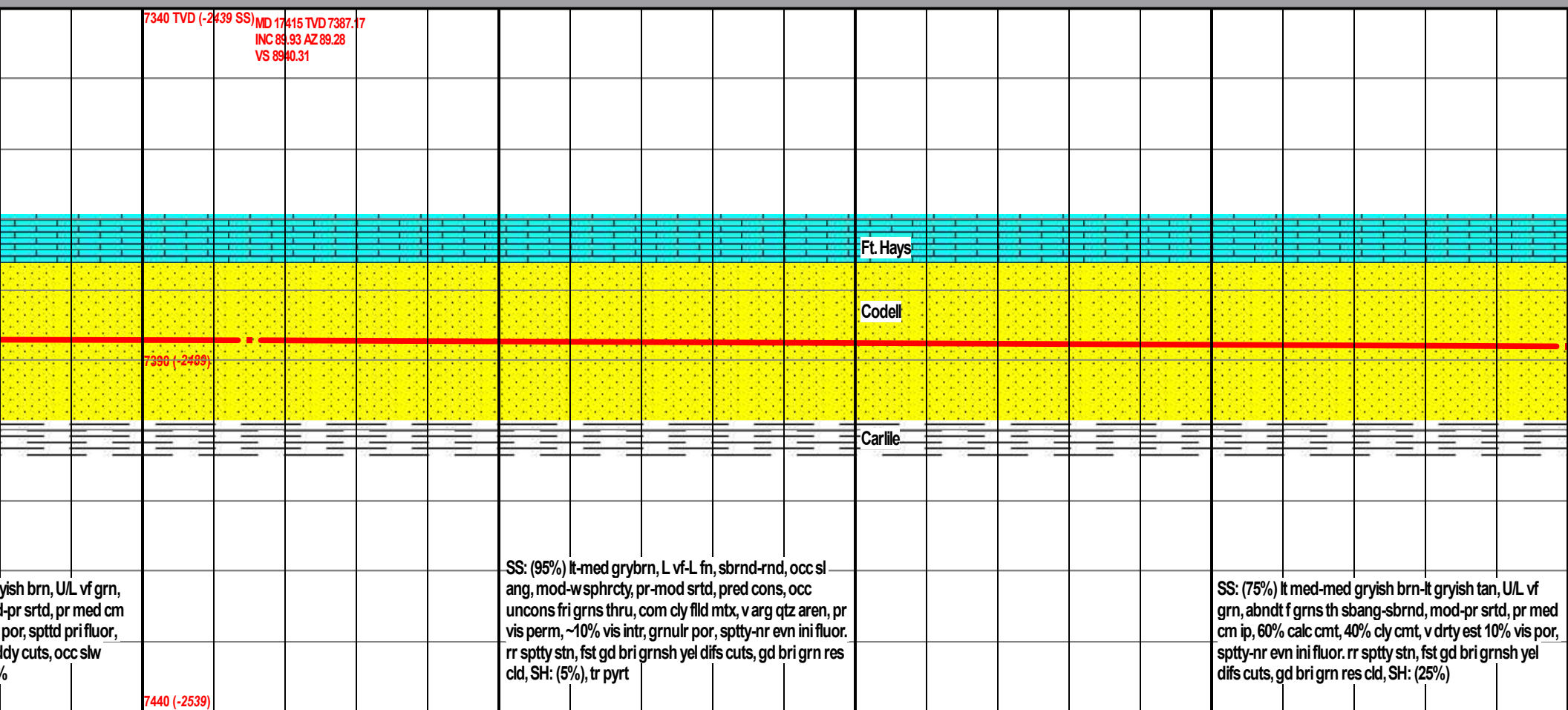
MW I/O 10.05 VIS 48

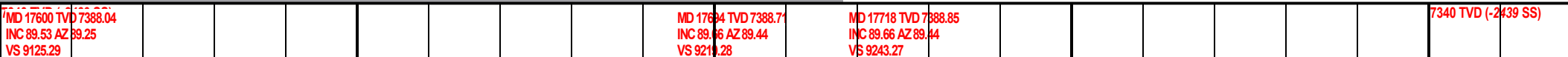






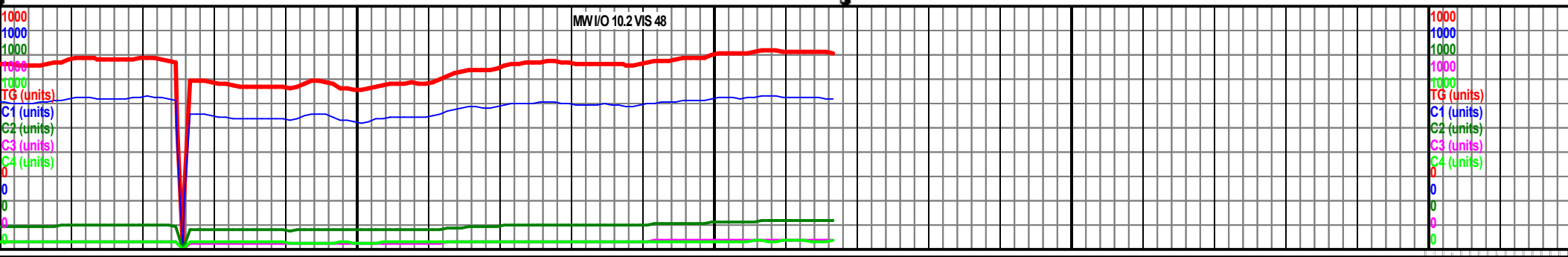


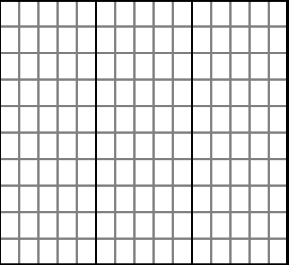




Formation tops  
& Larry Goolsby

Sharon Springs	
"A" Chalk	
"A" Chalk Base	
"B" Upper Marl	
"B" Chalk	
"B" Marl	
"C" Chalk	
"C" Marl	
K Marker	
Ft. Hays	
Codell	
Target Heel	
TOTAL DEPTH	





is picked by Andrew Krueger by (GBA).		
MD	TVD	SSD
6950'	6777'	-1876'
6994'	6817'	-1916'
7016'	6837'	-1936'
7145'	6944'	-2043'
7155'	6952'	-2051'
7184'	6974'	-2073'
7243'	7015'	-2114'
7304'	7048'	-2147'
7345'	7076'	-2175'
7421'	7111'	-2210'
7494'	7139'	-2238'
7680'	7168'	-2267'
17718	7389	-2488'

