

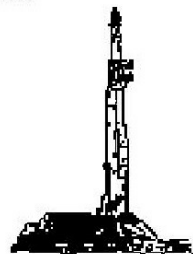
GOOLSBY BROTHERS
and associates, inc.

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: Harvesters State 31C-16-M

API: 051234637500

Location: Section 15, T6N, R66W, Weld County, CO.

License Number:

Spud Date: April 28, 2018

Surface Coordinates: SWNE T6N, R66W Sec 15, 1,693' FNL & 2,333' FEL

LAT 40.490956 LONG -104.762509

Bottom Hole NWNW T6N, R66W Sec 16, 1300' FNL & 29' FWL

Coordinates:

Ground Elevation (ft): 4,803'

Logged Interval (ft): 6,900'

To: 15,103'

K.B. Elevation (ft): 4,823'

Total Depth (ft): 15,103' DMTD

Formation: Pierre Shales / Sands, Sharon Springs, Niobrara, Codell (Target)

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

Region: Wattenberg

Drilling Completed: May 01, 2018

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

OPERATOR

Company: SRC Energy Inc.

Address: 1675 Broadway, Suite 2600

Denver, Colorado 80202

(720) 616-4300

GEOLOGIST

Name: 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 1,818'-15,088' MD

Casing

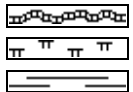
9 5/8" Surface Casing set @ 1,821' MD

5 1/2" Production Casing set @ 15,092' MD

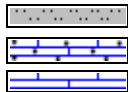
Comments

- 1) Drilling Contractor: Precision Drilling, Rig #462
Toolpusher: Cody Teeter, Joseph Credeur
- 2) Company Man: Steve Wilson, Buddy Davis
Lovell Young, Tony Pershall
- 3) Mud Company : Anchor USA
Engineer: Tim Pattison
- 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

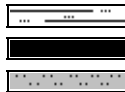
ROCK TYPES



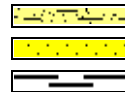
Bent
Mrlst
Shale



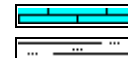
Sltst
Carb chalk
Chalk



Sltly sh
Coal
Sltst



Arg_ss
Ss
Carb sh



Ls
Sltly sh

ACCESSORIES

MINERAL

Anhy
 Arggrn
 Arg
 Bent
 Bit
 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
 Sltstgr
 Ssstgr

TEXTURE

Boundst
 Chalky
 Cryxln
 Earthy
 Finexln
 Grainst
 Lithogr
 Microxln
 Mudst
 Packst
 Wackst

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

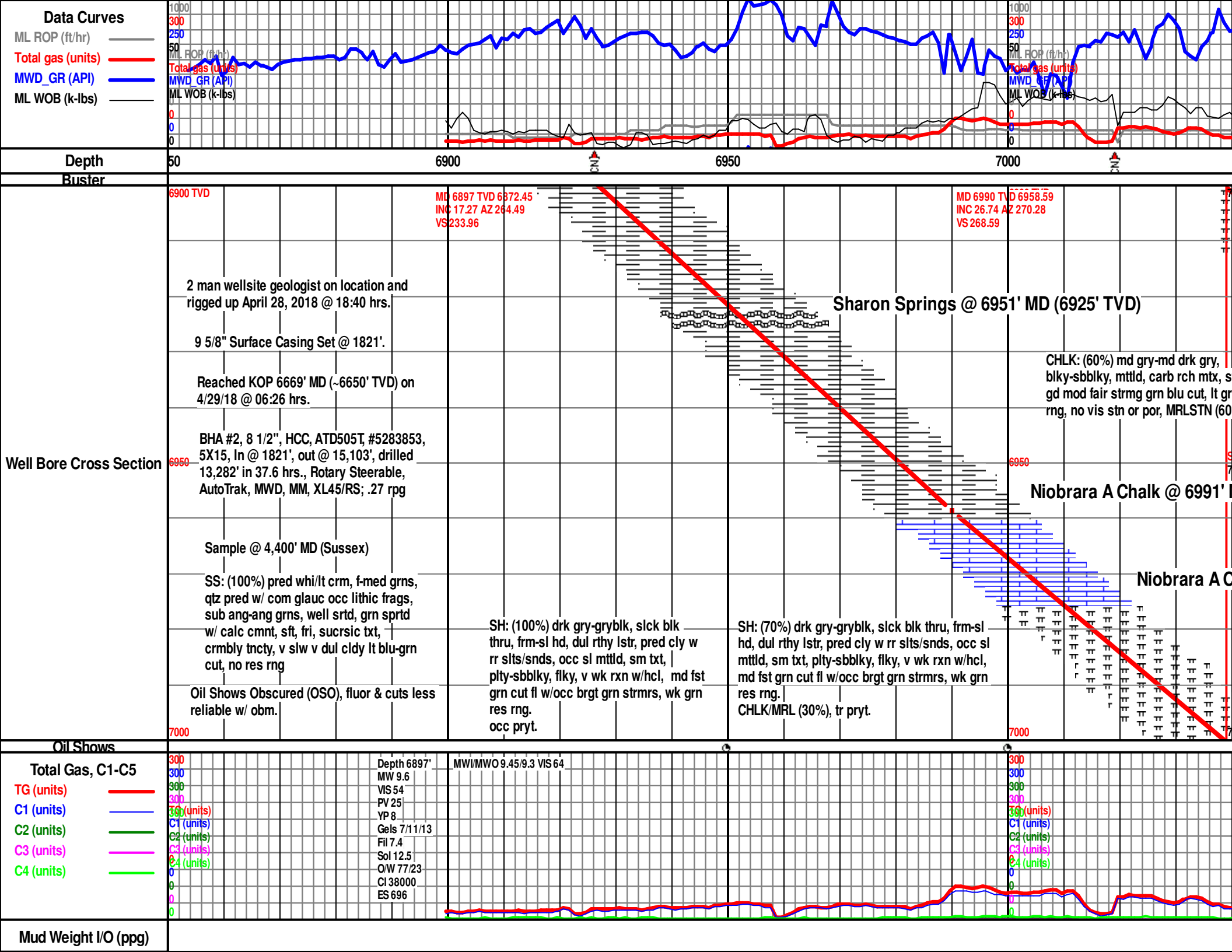
INTERVALS

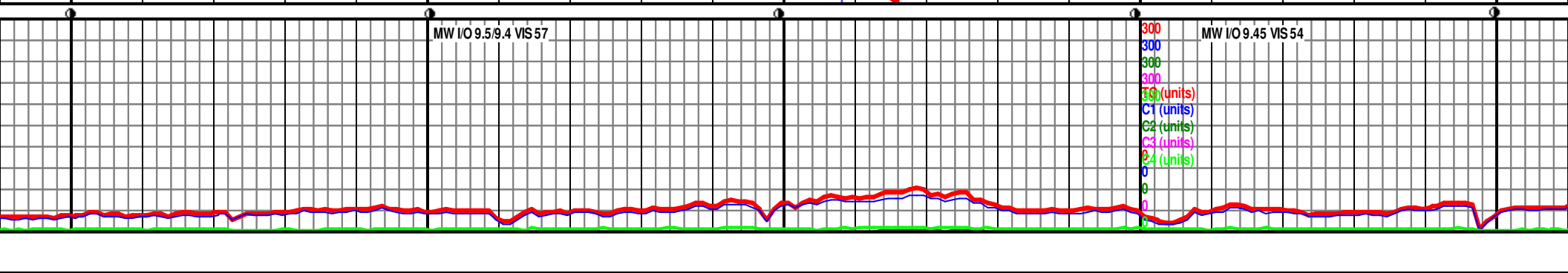
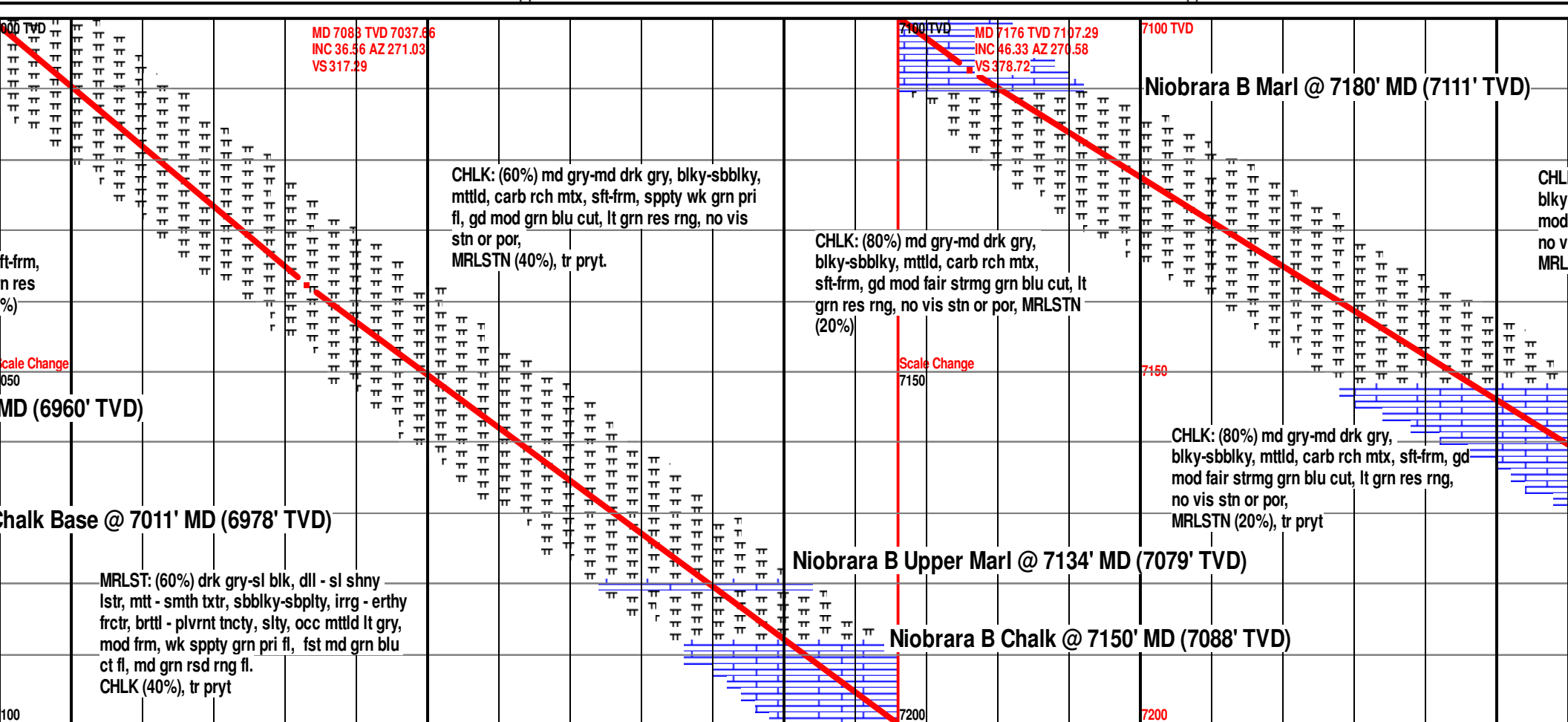
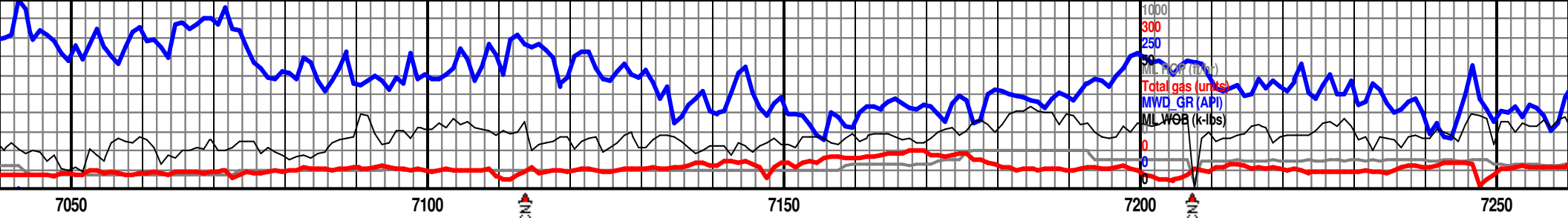
Core
 Dst

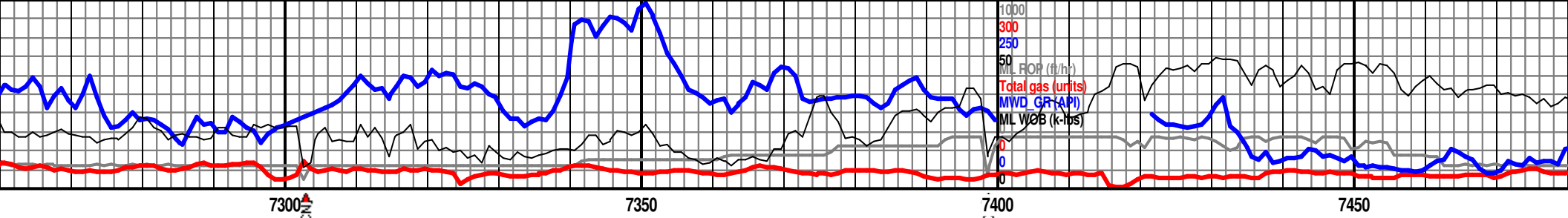
EVENTS

Casing shoe_hzl
 Trip_point_1
 Off bottom
 conn

Survey(mwd)
 Survey(red)
 bit

<





MD 7270 TVD 7166.62
INC 55.31 AZ 269.84
VS 451.41

**K Marker @ 7340' MD
(7207' TVD)**

7200' TVD

MD 7365 TVD 7213.3
INC 65.74 AZ 269.21
VS 533.84

7200 TVD

MD 7458 TVD 7245.51
INC 73.69 AZ 269.68
VS 620.83

K: (60%) md gry-md drk gry,
-sbbly, mtlld, carb rch mtz, sft frm, gd
fair strmg grn blu cut, lt grn res rng,
is stn or por,
STN (40%), tr pryt.

MRLST: (60%) drk gry-sl blk, dll - sl shny lstr,
mtt - smth txtr, sbbly-sbply, irrg - erthy
frctr, brttl - plvrnt tncy, slty, occ mtlld lt gry,
mod frm, wk sppty grn pri fl, fst md grn blu
ct fl, md grn rsd rng fl.
CHLK (40%), tr pryt, tr bent

Niobrara C Chalk @ 7248' MD (7152' TVD)

Scale Change
7250

LS (70%): v lt gry - lt gry, frm - sl hrd, dll lstr,
smth - mtt txtr, sb tblr - sb wdgk ctgs, irrg - sb
plnr frctr, brttl, brdrs on v cln chlk, gd min fl
msks pri fl, flsh md - brgt grn ct fl, md - brgt grn
rsd rnd fl.
MRLSTN (30%), tr pryt

Niobrara C Marl @ 7300' MD (7183' TVD)

7250

LS (70%): tan - crm, rr lt brn, frm - sl
hrd, dll lstr, smth - mtt txtr, sb tblr - sb
wdgk ctgs, irrg - sb plnr frctr, brttl, occ
sl chiky, gd min fl msks pri fl, flsh md -
brgt grn ct fl, md - brgt grn rsd rnd fl.
MRLSTN (30%)

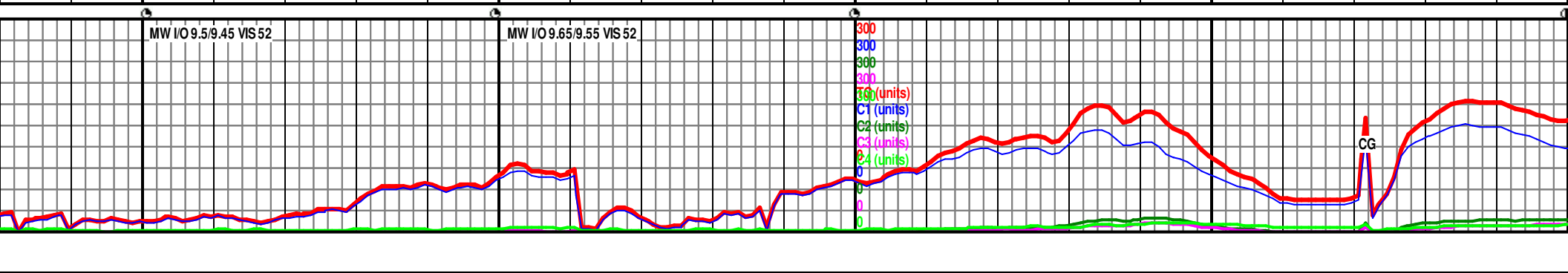
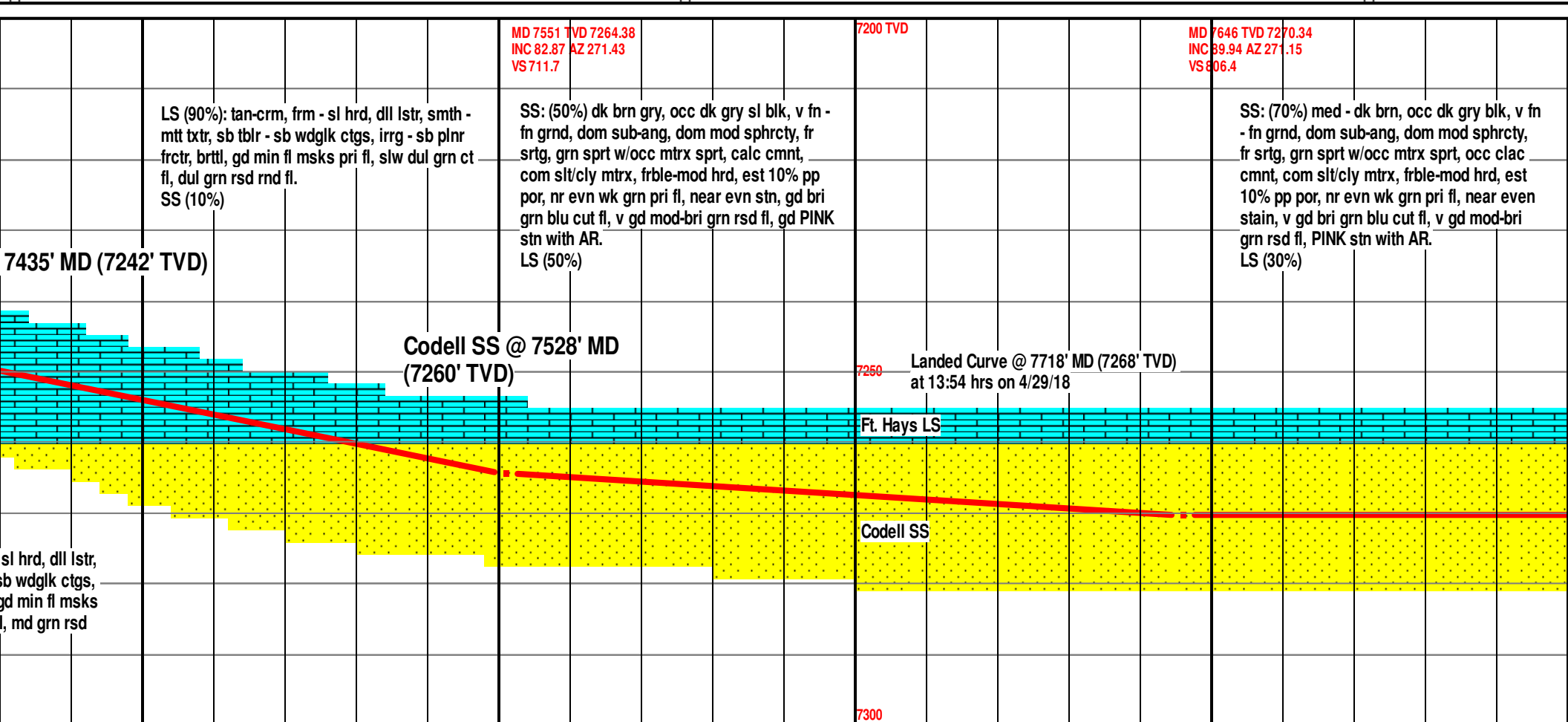
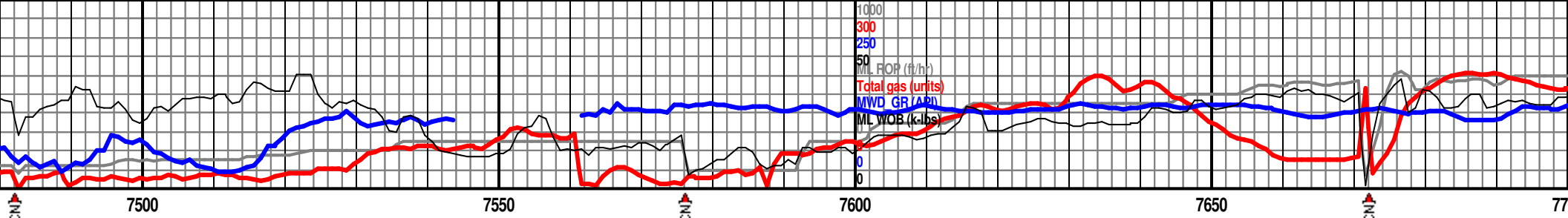
LS (80%): tan-crm, frm -
smth - mtt txtr, sb tblr - s
irrg - sb plnr frctr, brttl, g
pri fl, slw dul grnish ct fl
rnd fl.
MRLSTN (20%)

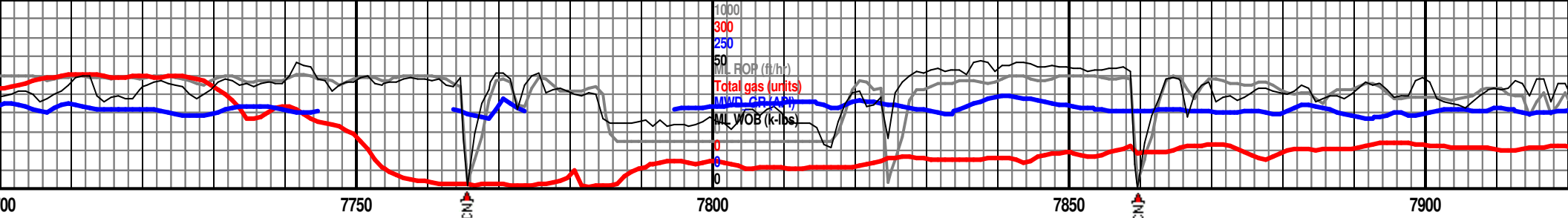
Ft. Hays LS @

7300

MW I/O 9.45 VIS 53

300 (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)





MD 7739 TVD 7270.36
INC 90.03 AZ 269.07
VS 899.27

On Gas Buster @ 7750' MD

7200 TVD

MD 7838 TVD 7270.21
INC 90.15 AZ 268.25
VS 992.99

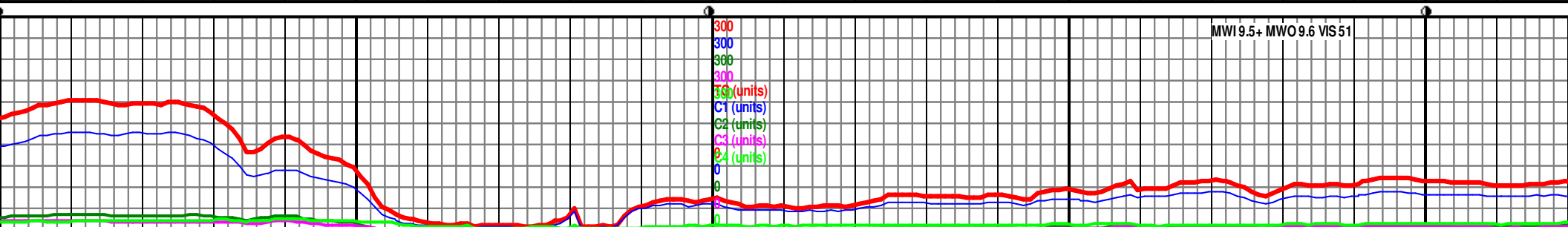
SS: (80%) brn gry - lt brn gry, v fn - fn grnd, dom sub-ang, dom mod sphrcty, fr srtg, pred qtz w/ rr lithc frags, grn sprt w/occ mtrx sprt, calc cmnt, com cly mtrx, frble-mod hrd, est 10% pp por, nr evn wk grn pri fl, near even stain, v gd bri grn blu cut fl, v gd mod-bri grn rsd fl, PINK stn with AR.
LS (20%)

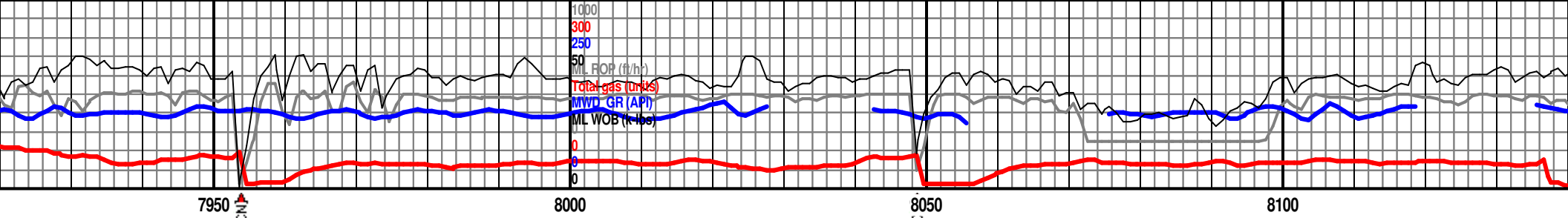
SS: (100%) com lt gry, pred drk gry brn - blk, v fn - fn grnd, dom subrnd, dom mod sphrcty, fr srtg, pred qtz w/ rr lithc frags, grn sprtd, calc cmnt, com cly mtrx, frble, est 10% pp por, nr evn wk grn pri fl, near even stain, v gd bri grn blu cut fl, v gd mod-bri grn rsd fl, abndt LS.

7250

7300

MWI 9.5+ MWOC 9.6 VIS 51





MD 7926 TVD 7270.09
INC 90 AZ 269.09
VS 1085.71

SS: (100%) occ lt gry, pred drk gry brn - blk, v fn - fn grnd, dom subrnd, dom mod sphrcty, fr srtg, pred qtz w/ rr lithc frags, grn sprtd, calc cmnt, com cly mtrx, frble, est 10% pp por, nr evn wk grn pri fl, near even stain, v gd bri grn blu cut fl, v gd mod-bri grn rsd fl, tr LS.

7200 TVD

MD 8020 TVD 7270.17
INC 89.91 AZ 270.3
VS 1179.54

SS: (100%) rr lt gry, pred drk gry brn - blk, v fn - fn grnd, dom subrnd, dom mod sphrcty, fr srtg, pred qtz w/ rr lithc frags, grn sprtd, calc cmnt, com cly mtrx, frble, est 10% pp por, nr evn wk grn pri fl, near even stain, v gd bri grn blu cut fl, v gd mod-bri grn rsd fl, rr LS.

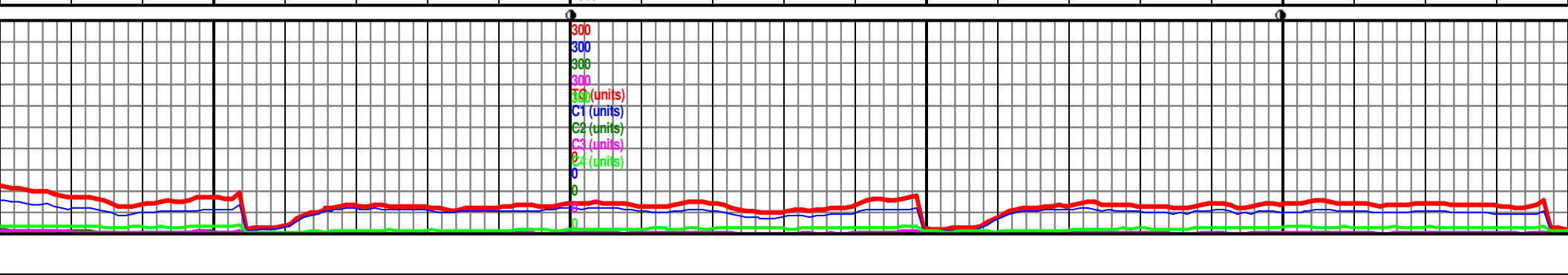
MD 8112 TVD 7269.94
INC 90.37 AZ 270.58
VS 1271.44

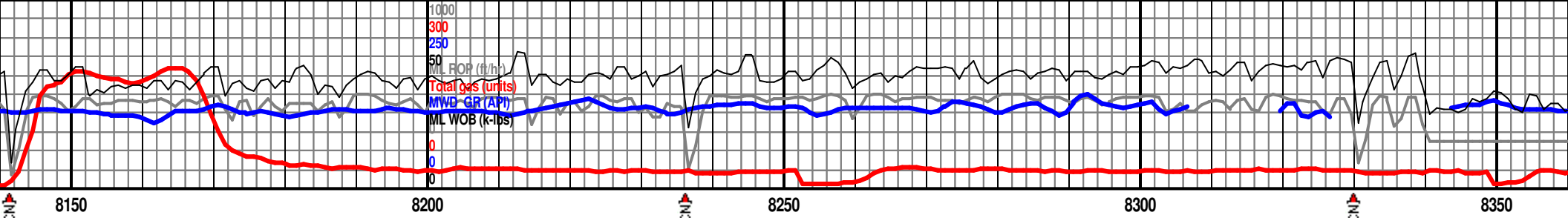
7250

Ft. Hays LS

CodeII SS

7300





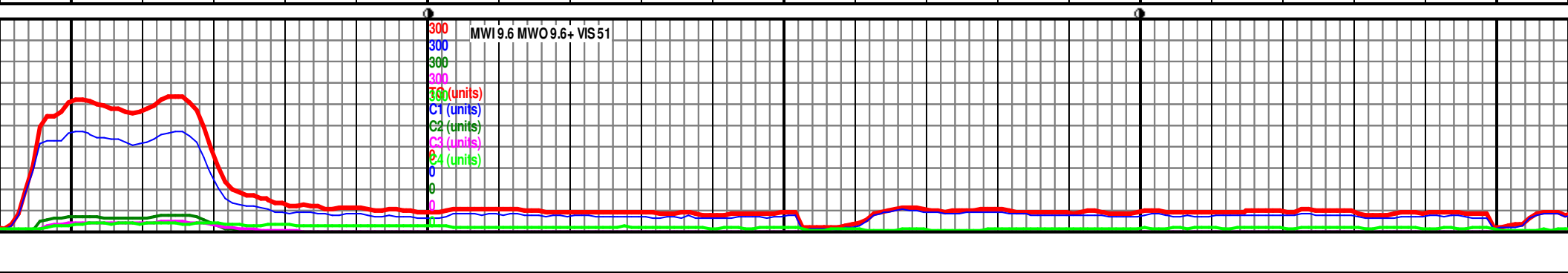
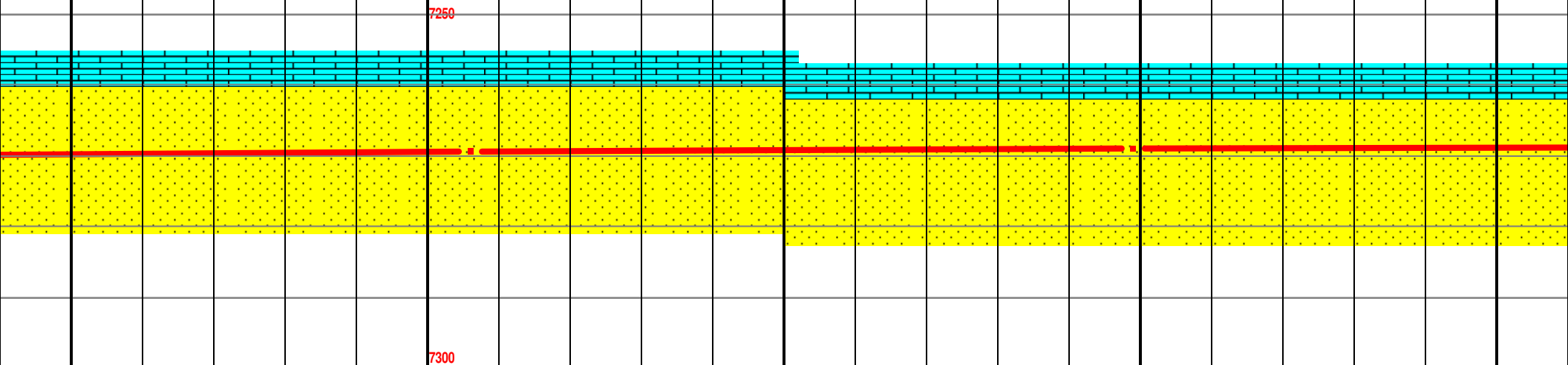
SS: (100%) tr lt gry, pred drk gry brn - blk, v
fn - fn grnd, dom subrnd, dom mod sphrcty,
fr-gd srtg, pred qtz w/ rr lithc frags & rr
glauc, grn sprtd, calc cmnt, com cly mtrx,
frble, est 10% pp por, nr evn wk grn pri fl,
near even stain, v gd bri grn blu cut fl, v gd
mod-bri grn rsd fl.

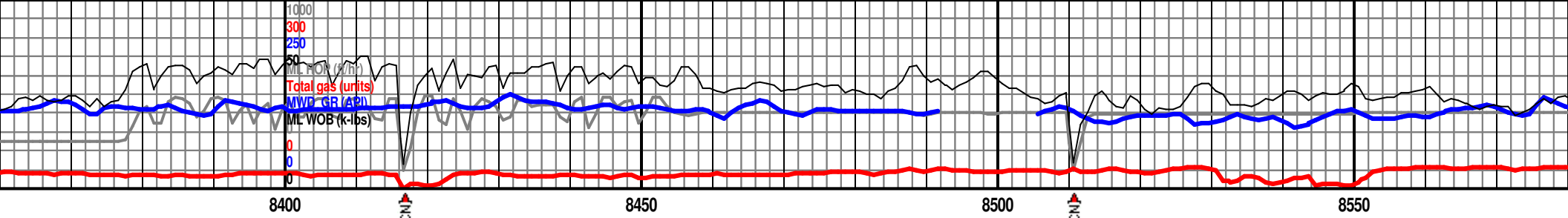
7200 TVD MD 8206 TVD 7259.43
INC 90.25 AZ 271.51
VS 1365.38

SS: (100%) occ lt gry, pred drk brn - blk,
UL fn - fn grn, dom subrnd, dom mod
sphrcty, fr-gd srtg, pred qtz w/ rr glauc,
grn sprtd, calc cmnt, com cly mtrx, frble,
est 10% pp por, nr evn wk grn pri fl, near
even stain, v gd bri grn blu cut fl, v gd
mod-bri grn rsd fl.

MD 8299 TVD 7269
INC 90.28 AZ 273
VS 1458.36

SS: (100%)
fn - fn g
fr-gd sr
glauc,
frble, e
near ev
mod-br





MD 8392 TVD 7268.65
INC 90.15 AZ 274.07
VS 1551.36

MD 8486 TVD 7268.41
INC 90.15 AZ 273.19
VS 1645.35

0%) pred drk gry brn - blk, rr lt gry, v
grnd, dom subrnd, dom mod sphrcty,
tg, pred qtz w/ rr lithc frags & rr
grn sprtd, calc cmnt, com cly mtrx,
st 10% pp por, nr evn wk grn pri fl,
ven stain, gd bri grn blu cut fl, v gd
i grn rsd fl.

SS: (100%) tr lt gry, pred drk gry brn - blk, v
fn - fn grnd, dom subrnd, dom mod sphrcty,
fr-gd srtg, pred qtz w/ rr glauc, grn sprtd,
calc cmnt, com cly mtrx, frble, est 10% pp
por, nr evn wk grn pri fl, near even stain, gd
fst bri grn blu cut fl, gd mod-bri grn rsd fl.

SS: (100%) com lt grybrn, blk, v fn - fn grnd, dom sub
pred qtz grn w/ rr glauc, gr
cmnt, pred grn sprtd, com
frble, nr evn wk grn pri fl,
fst bri grn blu cut fl, gd mo

7250

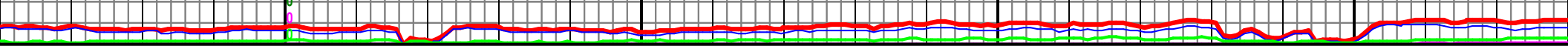
Ft. Hays LS

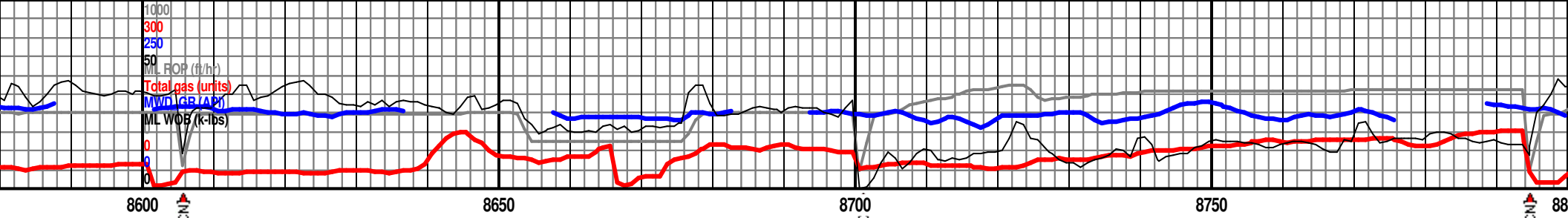
Codell SS

7300

MWI/O 9.6+ VIS 52

300
300
300
300
300 (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)





MD 8579 TVD 7268.14
INC 90.18 AZ 271.44
VS 1738.34

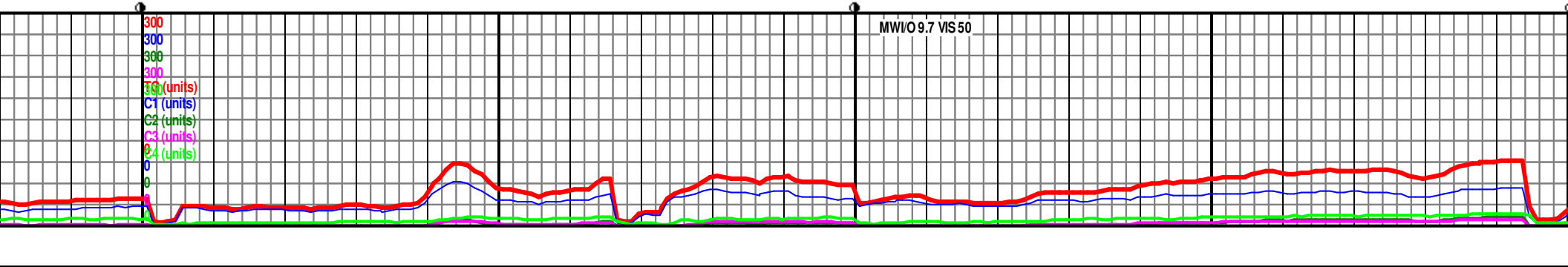
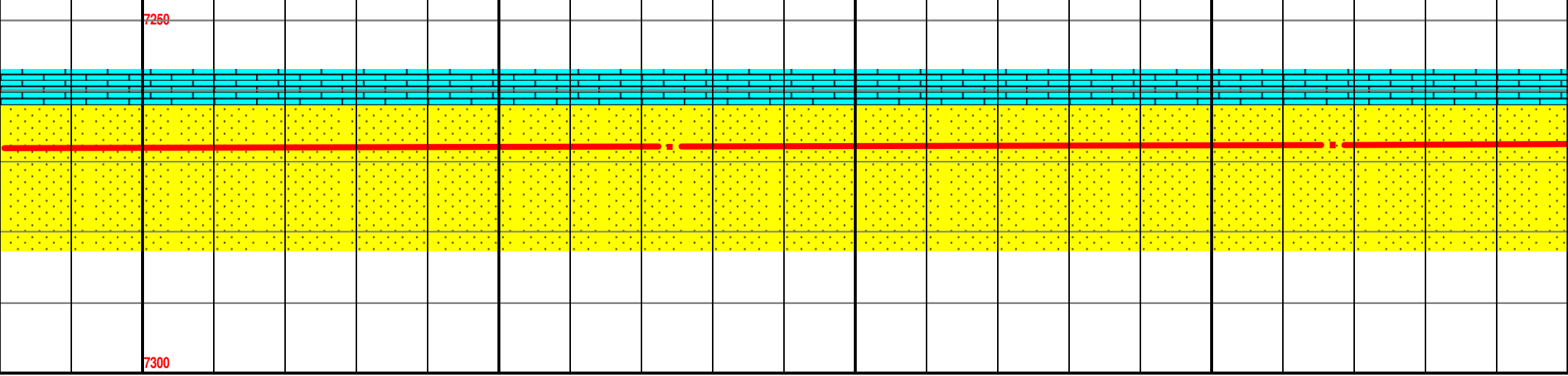
MD 8674 TVD 7267.92
INC 90.09 AZ 270.65
VS 1833.28

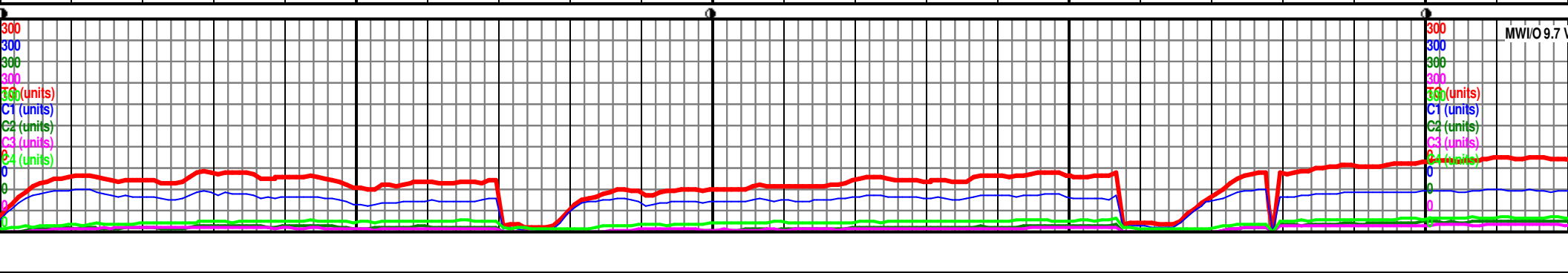
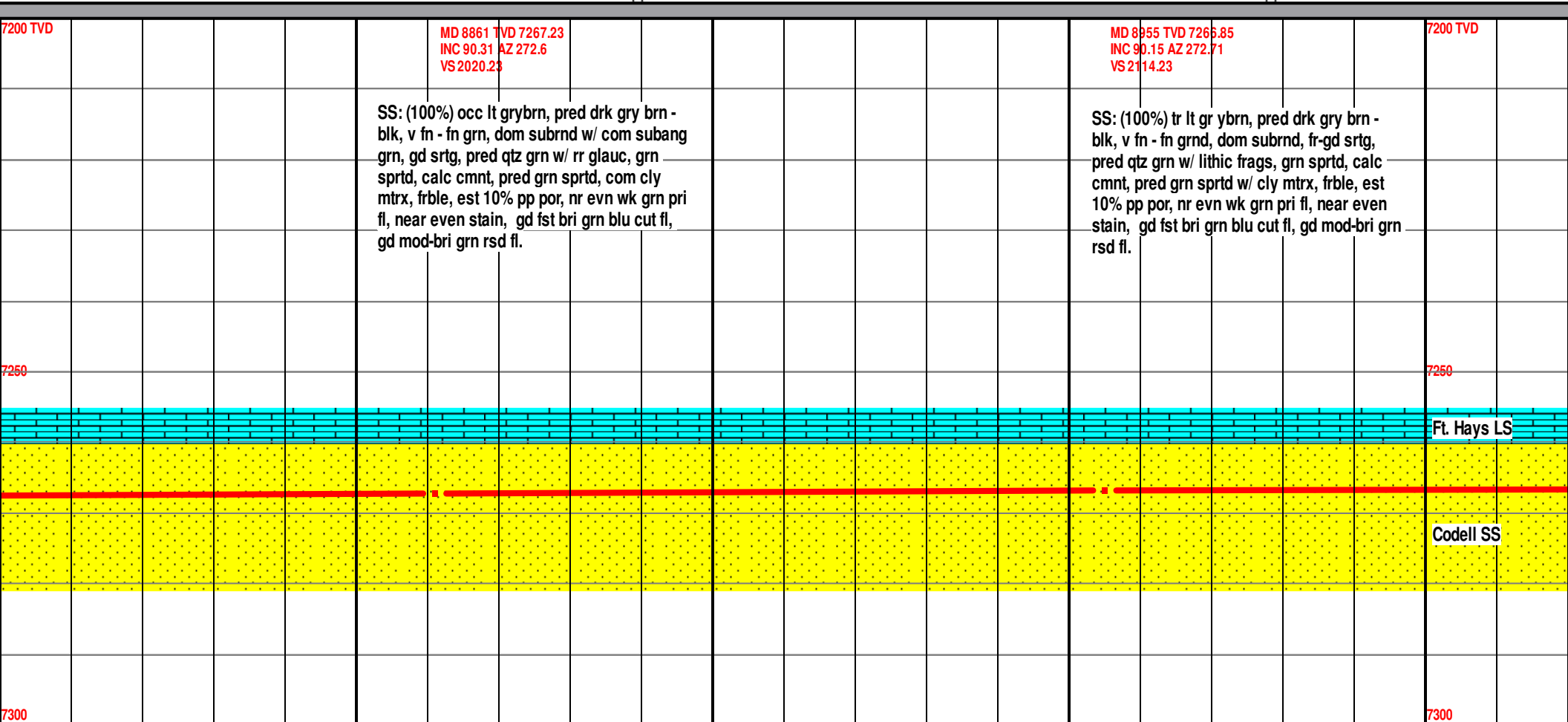
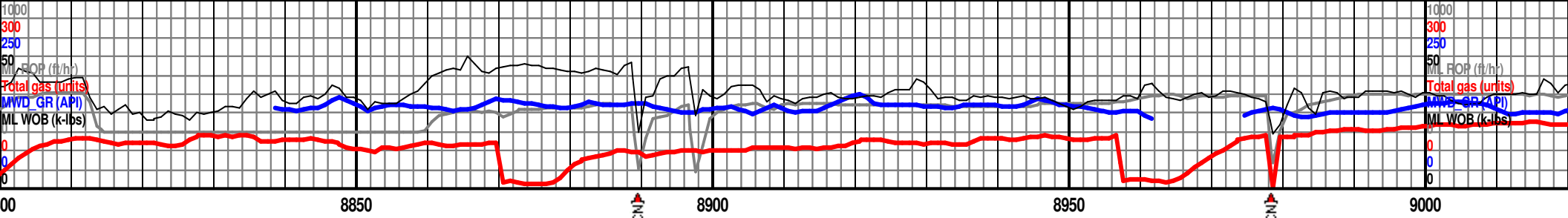
MD 8767 TVD 7267.66
INC 90.22 AZ 272.29
VS 1926.24

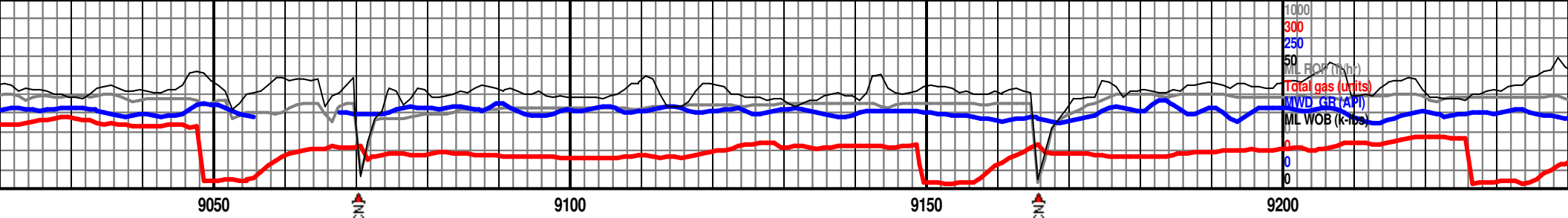
pred drk gry brn -
brnd, fr-gd srtg,
n sprtd, calc
cly/slt mtrx,
near even stain,
d-bri grn rsd fl.

SS: (100%) com lt grybrn, pred drk gry brn -
blk, v fn - fn grnd, dom subrnd, fr-gd srtg,
pred qtz grn w/ rr glauc, pred grn sprtd, calc
cmnt, pred grn sprtd, com cly mtrx, frble,
est 10% pp por, nr evn wk grn pri fl, near
even stain, gd fst bri grn blu cut fl, gd
mod-bri grn rsd fl.

SS: (100%) rr lt grybrn, pred drk gry brn -
blk, v fn - fn grnd, dom subrnd w/ occ ang
grn, fr-gd srtg, pred qtz grn w/ rr glauc, grn
sprtd, calc cmnt, pred grn sprtd, com cly
mtrx, frble, est 10% pp por, nr evn wk grn
pri fl, near even stain, gd bri grn blu cut fl,
gd mod-bri grn rsd fl.







MD 9048 TVD 7266.61
INC 90.15 AZ 269.96
VS 2207.17

SS: (100%) tr lt grybrn, pred drk gry brn - blk, v fn - fn grnd, dom subrnd, fr-gd srtg, pred qtz grn w/ lithic frags, grn sprtd, calc cmnt, pred grn sprtd, com cly mtrx, frble, est 10% pp por, nr evn wk grn pri fl, near even stain, gd fst bri grn blu cut fl, gd mod-bri grn rsd fl.

MD 9142 TVD 7266.36
INC 90.13 AZ 267.88
VS 2300.92

SS: (100%) rr lt grybrn, pred drk gry brn - blk, v fn - fn grnd, tr uncongs grns, dom subrnd, fr-gd srtg, pred qtz grn w/ rr glauc, grn sprtd, calc cmnt, pred grn sprtd, com cly mtrx, frble, est 10% pp por, nr evn wk grn pri fl, near even stain, gd bri grn blu cut fl, gd mod-bri grn rsd fl.

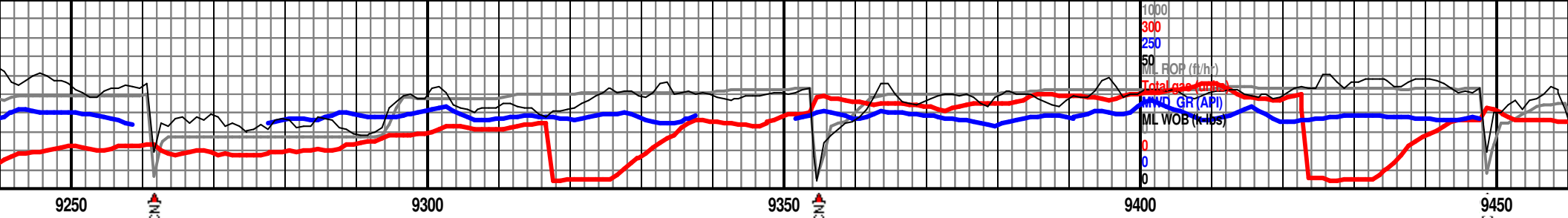
7200 TVD

7250

7300

VS 50

300
300
300
300
300 (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)



9237 TVD 7266.09
INC 90.18 AZ 245.89
VS 2395.36

MD 9330 TVD 7265.76
INC 90.22 AZ 264.81
VS 2487.5

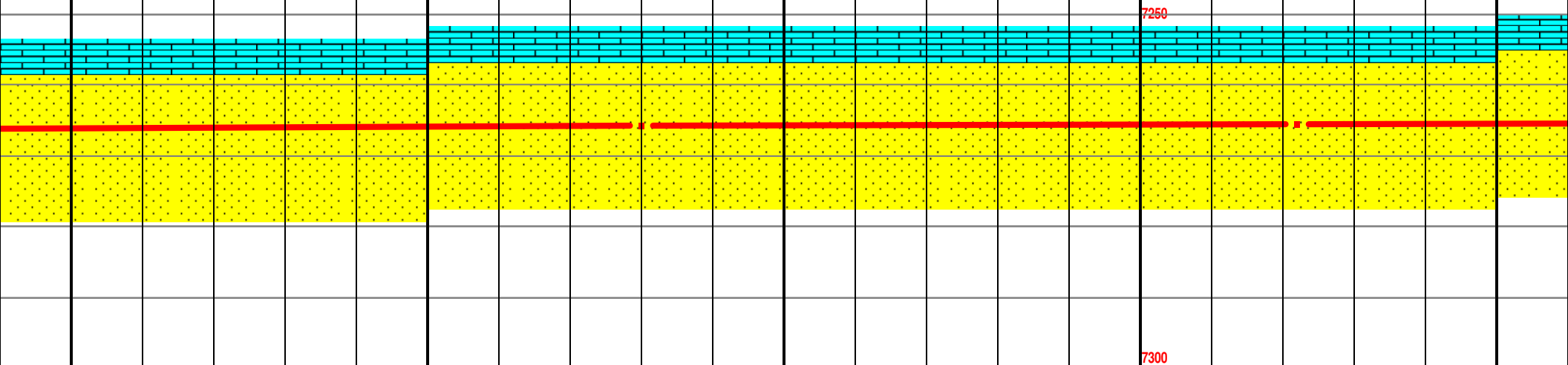
7200 TVD

MD 9422 TVD 7265.52
INC 90.09 AZ 263.48
VS 2578.38

SS: (100%) tr lt grybrn, pred drk gry brn - blk, v fn - fn grnd, dom subrnd, fr-gd srtg, pred qtz grn w/ rr glauc, grn sprtd, calc cmnt, pred grn sprtd, com cly mtrx, frble, est 10% pp por, nr evn wk grn pri fl, near even stain, fst bri grn blu cut fl, gd mod-bri grn rsd fl.

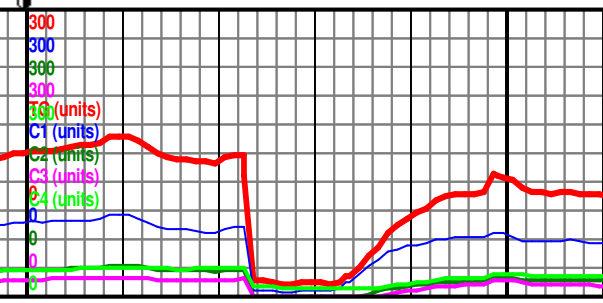
SS: (100%) tr lt grybrn, pred drk gry brn - blk, v fn - fn grnd, dom subrnd, fr-gd srtg, pred qtz grn w/ rr glauc, grn sprtd, calc cmnt, pred grn sprtd, com cly mtrx, frble, est 10% pp por, nr evn wk grn pri fl, near even stain, fst bri grn blu cut fl, gd mod-bri grn rsd fl, rr SH.

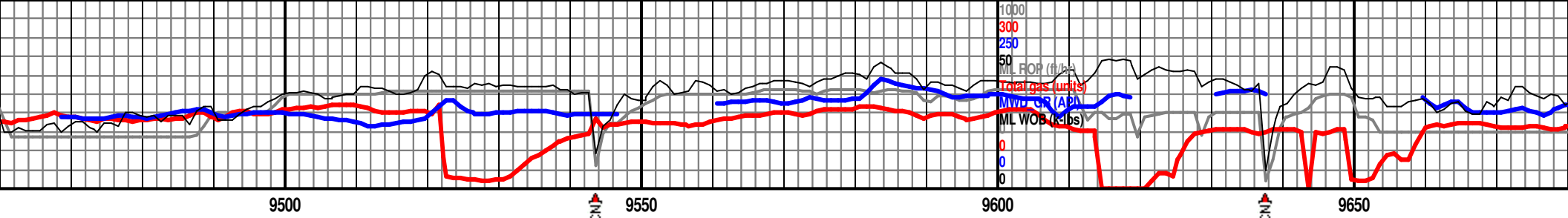
SS: (100%) tr lt grybrn, pred drk gry brn - blk, v fn - fn grnd, dom subrnd, fr-gd srtg, pred qtz grn w/ rr glauc, grn sprtd, calc cmnt, pred grn sprtd, com cly mtrx, frble, est 10% pp por, nr evn wk grn pri fl, near even stain, fst bri grn blu cut fl, gd mod-bri grn rsd fl, rr SH.



MW/O 9.7 VS 51

7300





MD 9516 TVD 7255.24
INC 90.25 AZ 263.71
VS 2671.09

7200 TVD MD 9610 TVD 7264.96
INC 90.09 AZ 263.15
VS 2763.75

(100%) rr lt grybrn, pred drk gry brn - blk,
n grnd, dom subrnd, fr-gd srtg, pred qtz
rr glauc, grn sprtd, calc cmnt, pred
rtd, com cly mtrx, frble, est 10% pp
evn wk grn pri fl, near even stain, fst
blu cut fl, gd mod-bri grn rsd fl, rr SH.

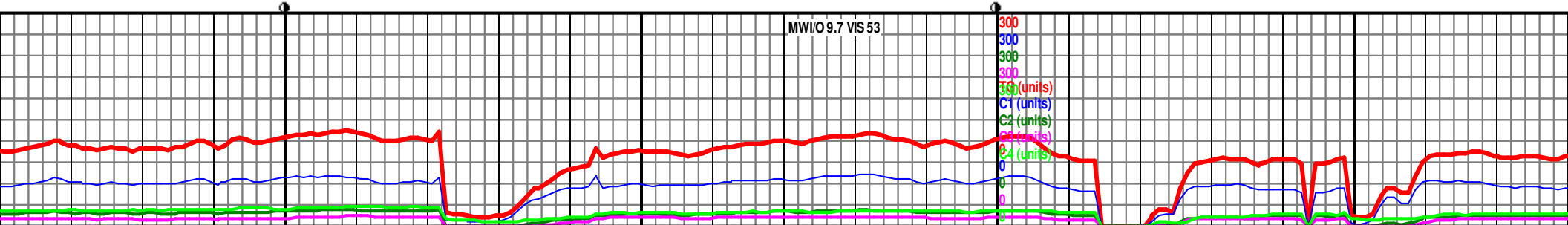
SS: (100%) rr lt grybrn, pred drk gry brn - blk,
v fn - fn grnd, dom subrnd, fr srtg, pred qtz grn
w/ com lithic frags & rr glauc, grn sprtd, calc
cmnt, pred grn sprtd, com cly mtrx, frble, est
10% pp por, nr evn wk grn pri fl, near even
stain, fst bri grn blu cut fl, gd mod-bri grn rsd
fl, rr SH.

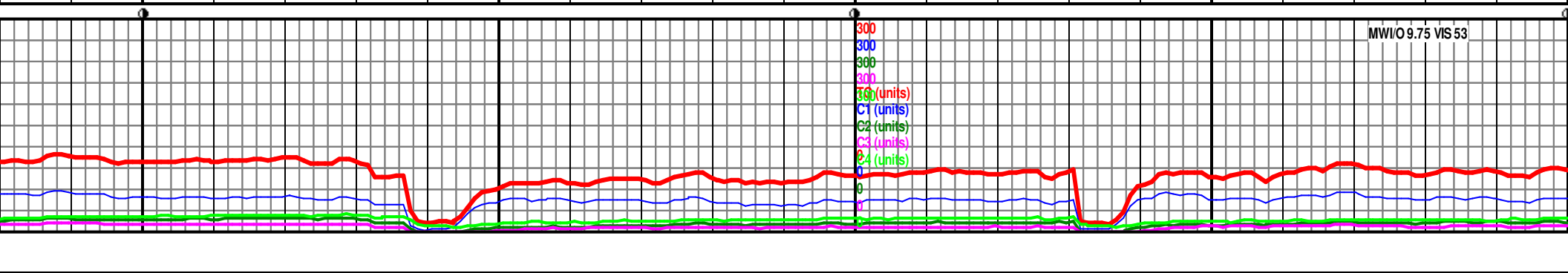
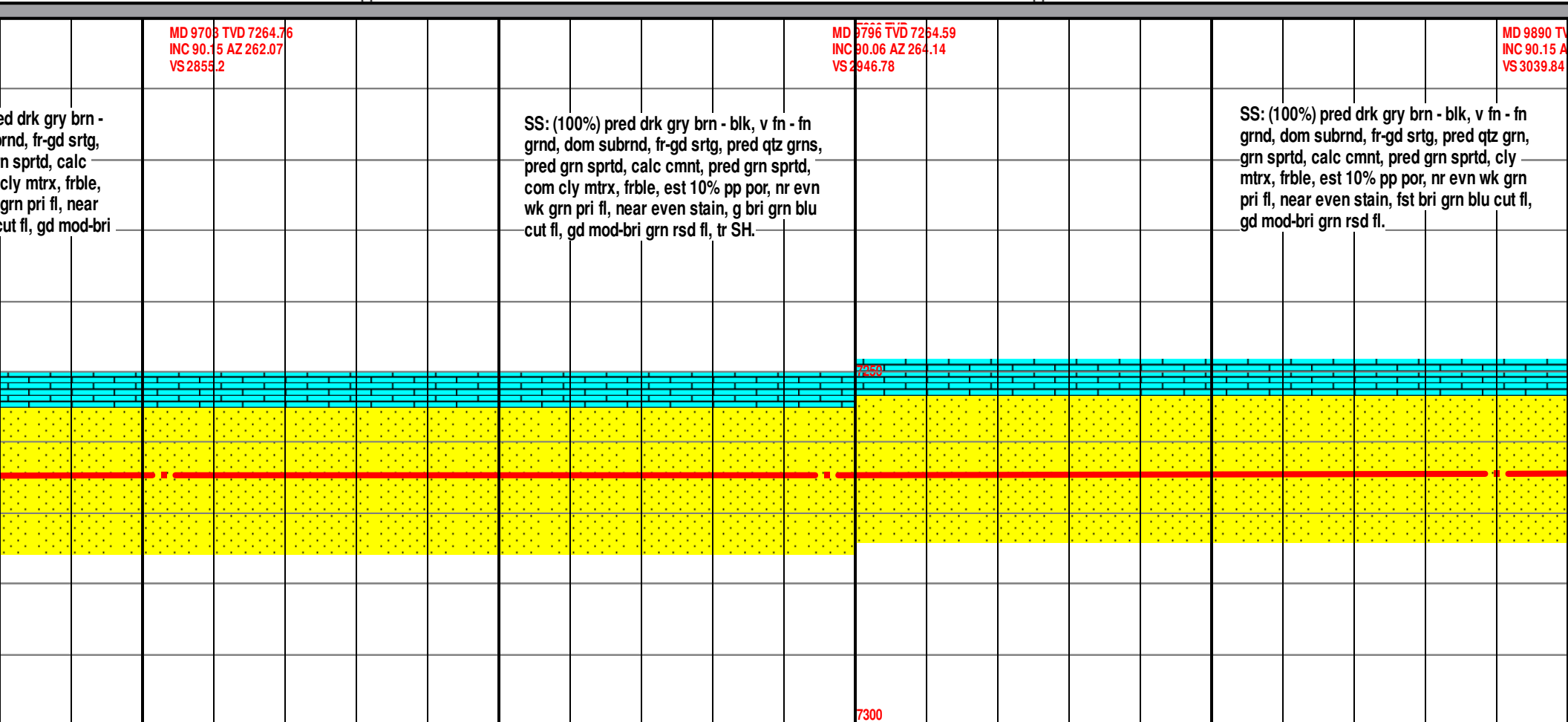
SS: (100%) tr lt gr ybrn, pred drk gry brn - blk,
v fn - fn grnd, dom subrnd, fr-gd srtg, pred qtz grn
w/ rr glauc, grn sprtd, calc cmnt, pred grn sprtd, com
cly mtrx, frble, est 10% pp por, nr evn wk grn pri fl,
near even stain, fst bri grn blu cut fl, gd mod-bri grn
rsd fl, tr SH.

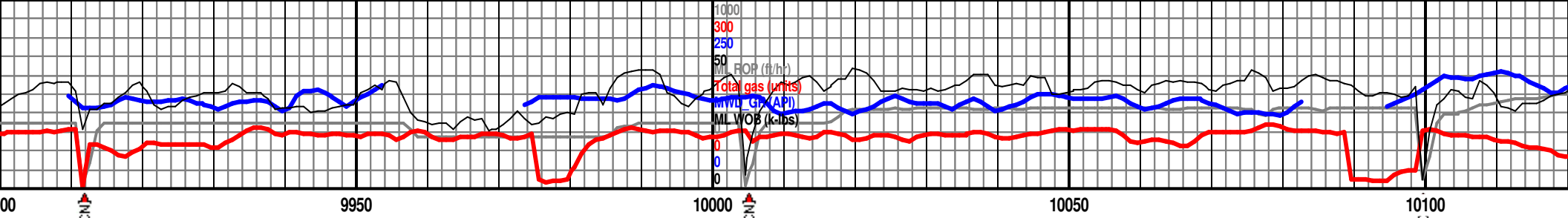
Ft. Hays LS

Codeil SS

MW/O 9.7 VIS 53







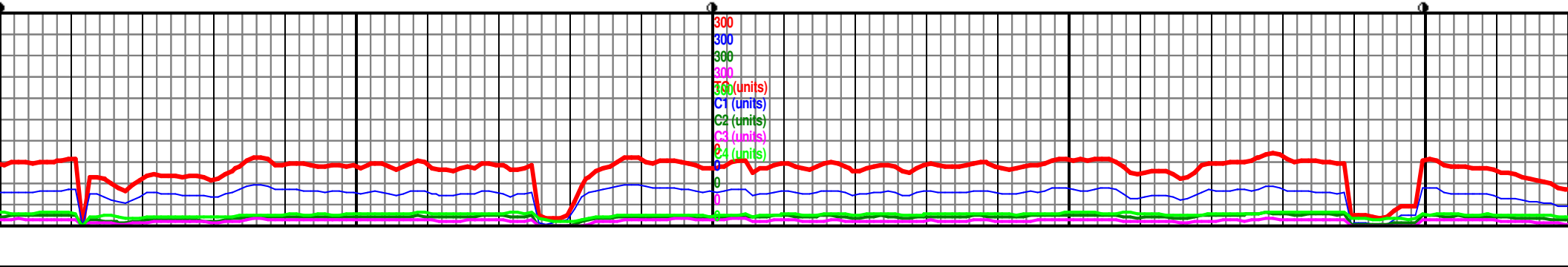
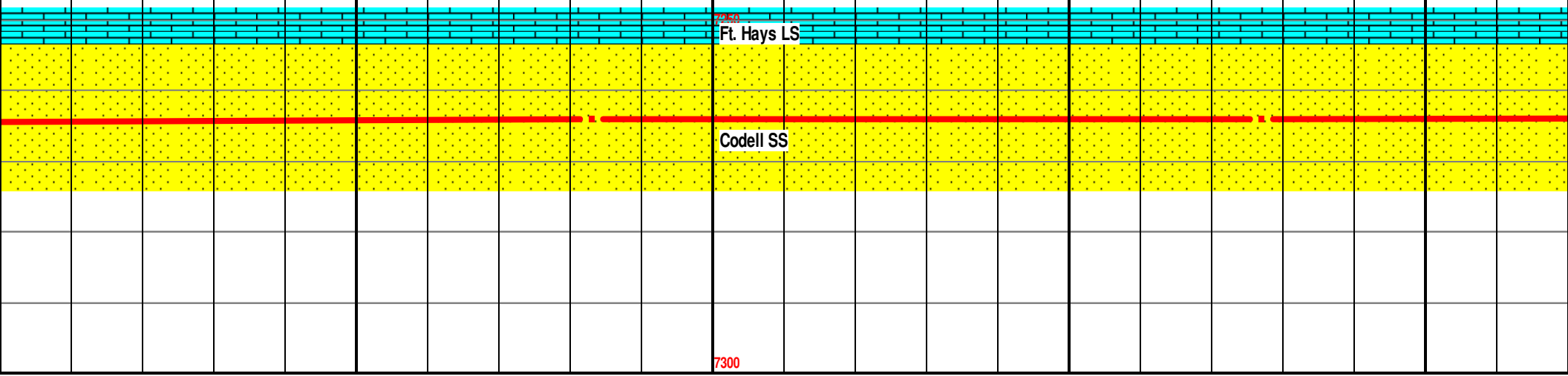
MD 7264.42
Z 265.91

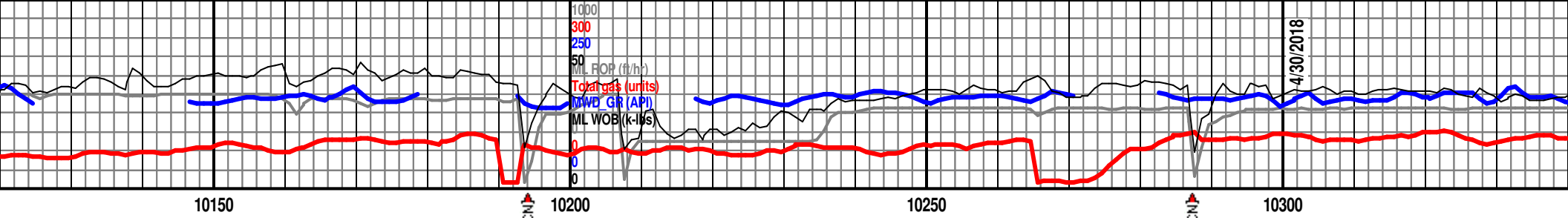
MD 9983 TVD 7264.42
INC 90.25 AZ 269.4
VS 3132.41

MD 10077 TVD 7263.92
INC 89.97 AZ 271.06
VS 3226.29

SS: (100%) rr lt grybrn, pred drk gry brn - blk, v fn - fn grnd, dom subrnd, fr-gd srtg, pred qtz grn w/ rr glauc, grn sprtd, calc cmnt, pred grn sprtd, com cly mtrx, frble, est 10% pp por, nr evn wk grn pri fl, near even stain, fst bri grn blu cut fl, gd mod-bri grn rsd fl, tr SH.

SS: (100%) pred drk gry brn - blk, v fn - fn grnd, dom subrnd, fr-gd srtg, pred qtz grn w/ rr glauc, grn sprtd, calc cmnt, pred grn sprtd, com cly mtrx, frble, est 10% pp por, nr evn wk grn pri fl, near even stain, g bri grn blu cut fl, gd mod-bri grn rsd fl, com SH.



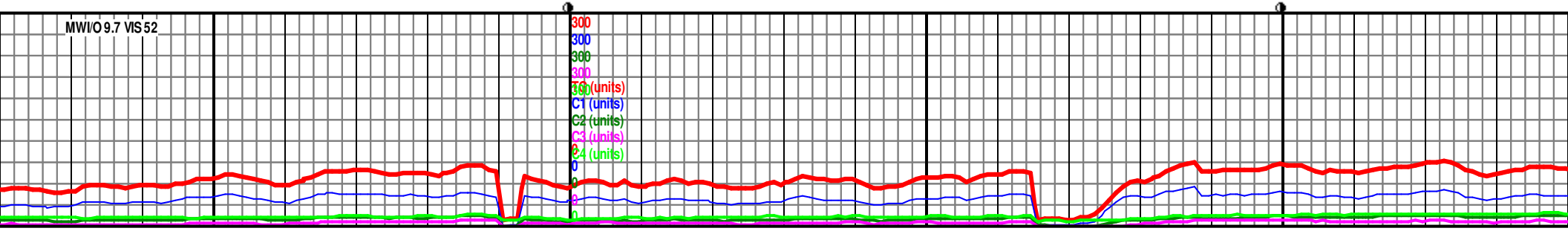
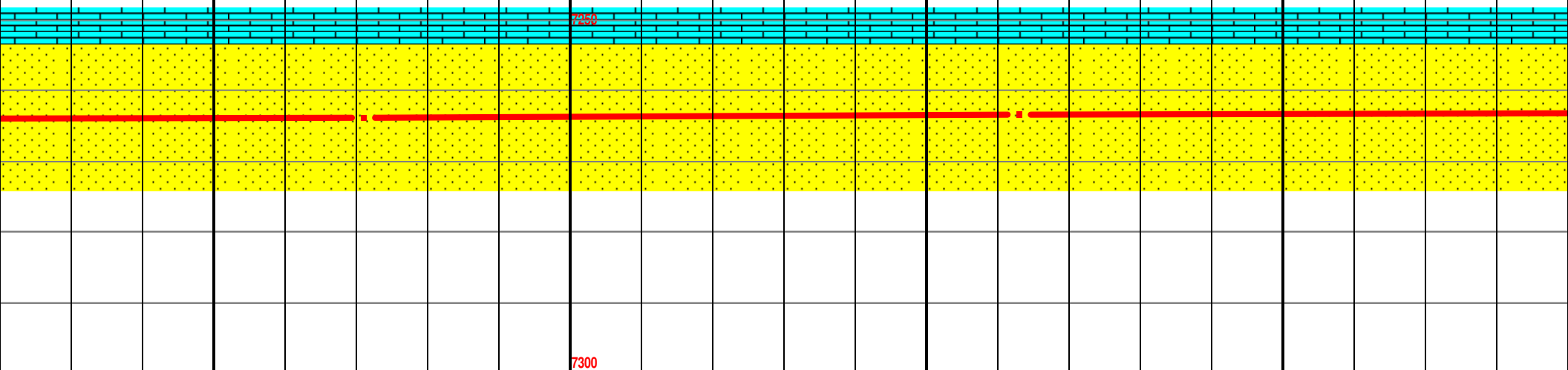


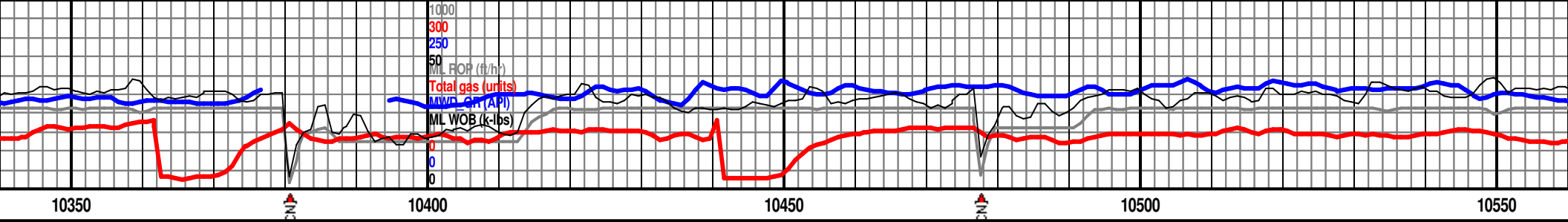
MD 10171 TVD 7263.71
INC 90.28 AZ 273.59
VS 3320.27

SS: (95%) tr lt gr ybrn, pred drk gry brn - blk, v fn - fn grnd, dom subrnd, fr-gd srtg, pred qtz grn w/ rr glauc, grn sprtd, calc cmnt, pred grn sprtd, com cly mtrx, frble, est 10% pp por, nr evn wk grn pri fl, near even stain, fst bri grn blu cut fl, gd mod-bri grn rsd fl, SH: (5%)

MD 10253 TVD 7263.34
INC 90.18 AZ 276.77
VS 3412.2

SS: (95%) tr lt grybrn, pred drk gry brn - blk, v fn - fn grnd, dom subrnd, fr-gd srtg, pred qtz grn w/ rr glauc, grn sprtd, calc cmnt, pred grn sprtd, com cly mtrx, frble, est 10% pp por, nr evn wk grn pri fl, near even stain, fst bri grn blu cut fl, gd mod-bri grn rsd fl, SH: (5%)





MD 10356 TVD 7263.07
INC 90.15 AZ 278.67
VS 3504.89

SS: (95%) occ lt tan-gry, pred drk gry brn -
blk, v fn - fn grnd, dom subrnd, fr-gd srtg,
pred qtz grn, grn sprtd, calc cmnt, pred grn
sprtd, com cly mtrx, frble, est 10% pp por,
nr evn wk grn pri fl, near even stain, fst bri
grn blu cut fl, gd mod-bri grn rsd fl, SH: (5%)

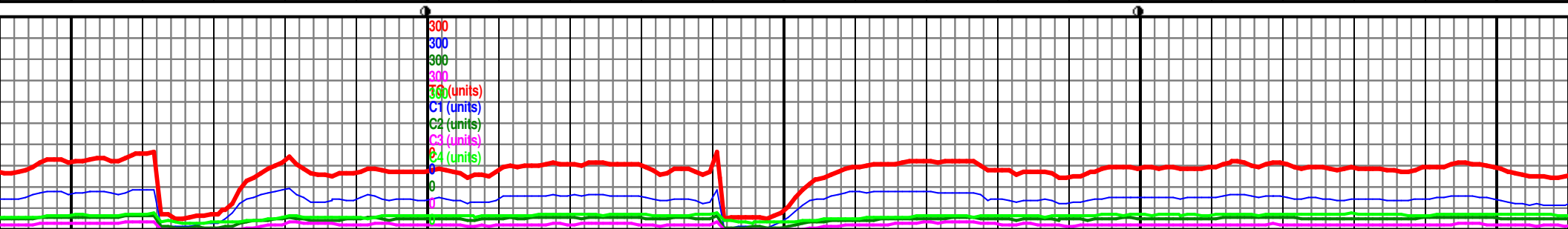
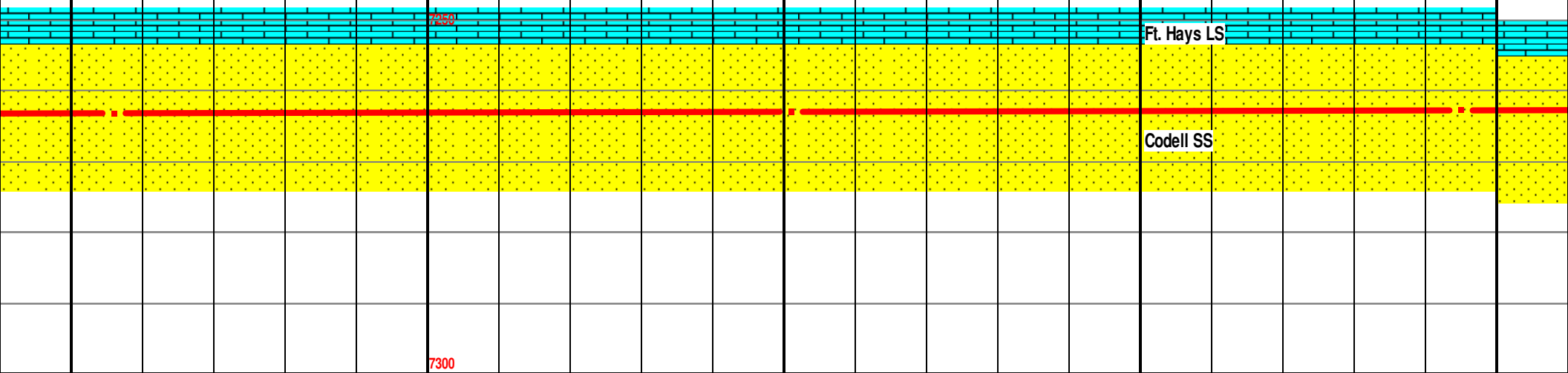
7200 TVD

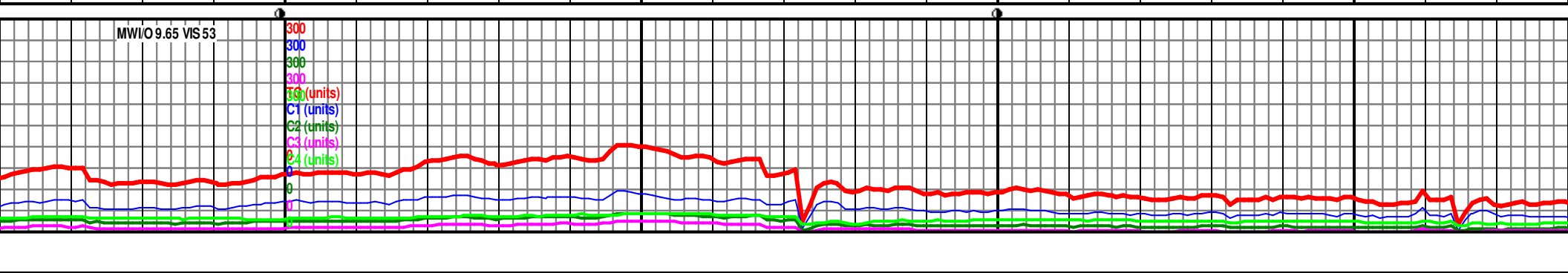
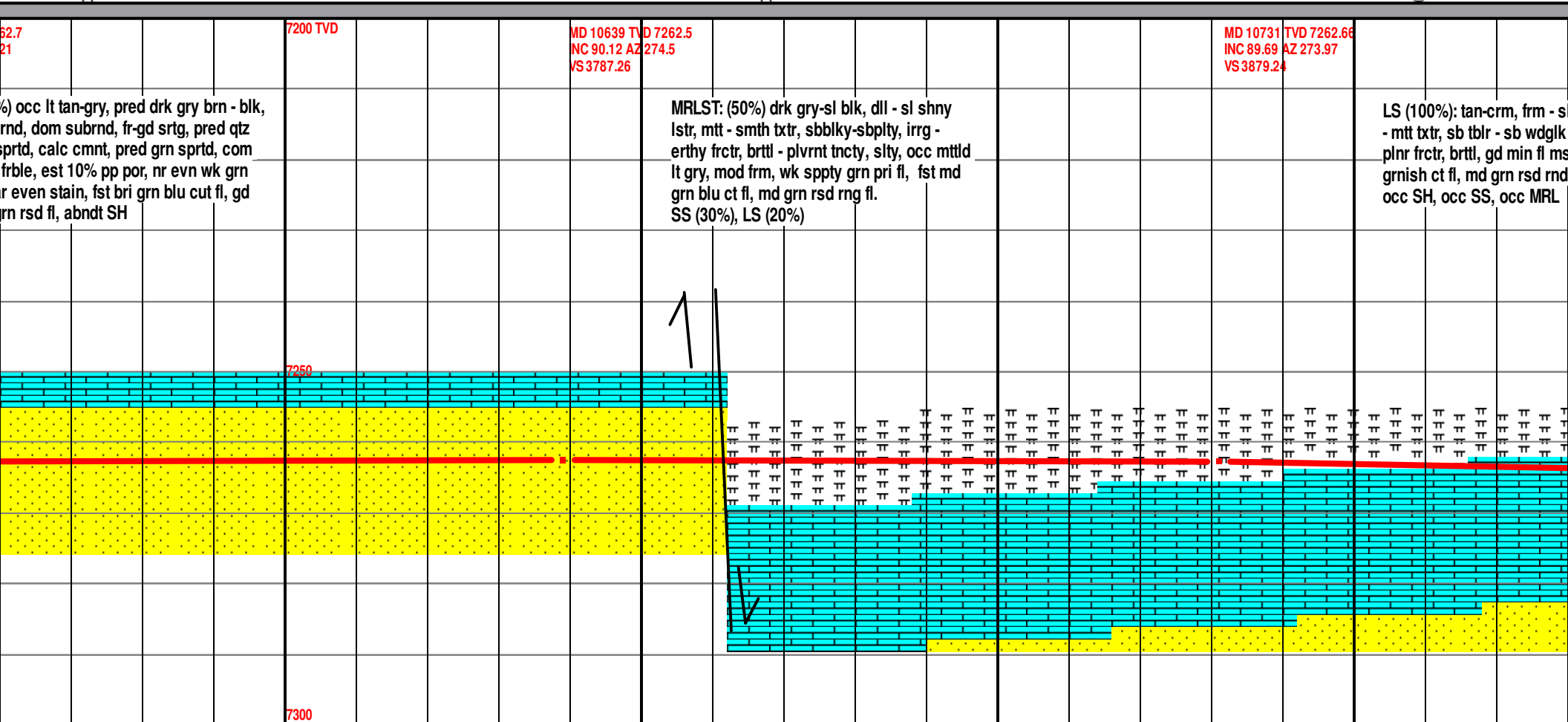
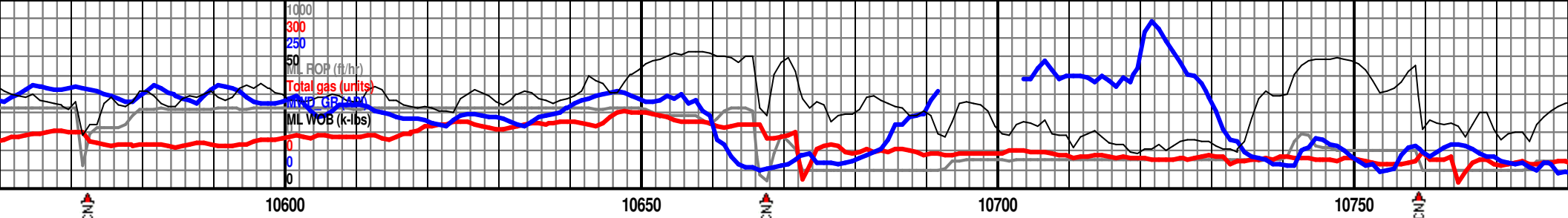
MD 10451 TVD 7262.87
INC 90.09 AZ 278.06
VS 3599.49

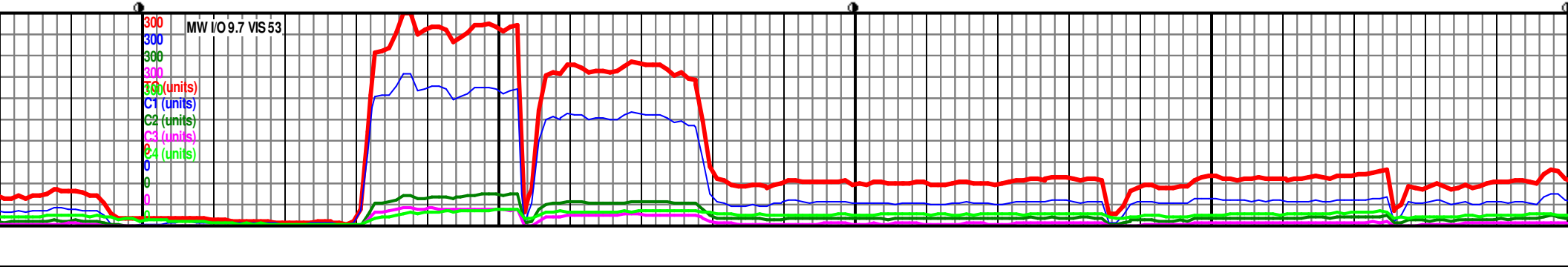
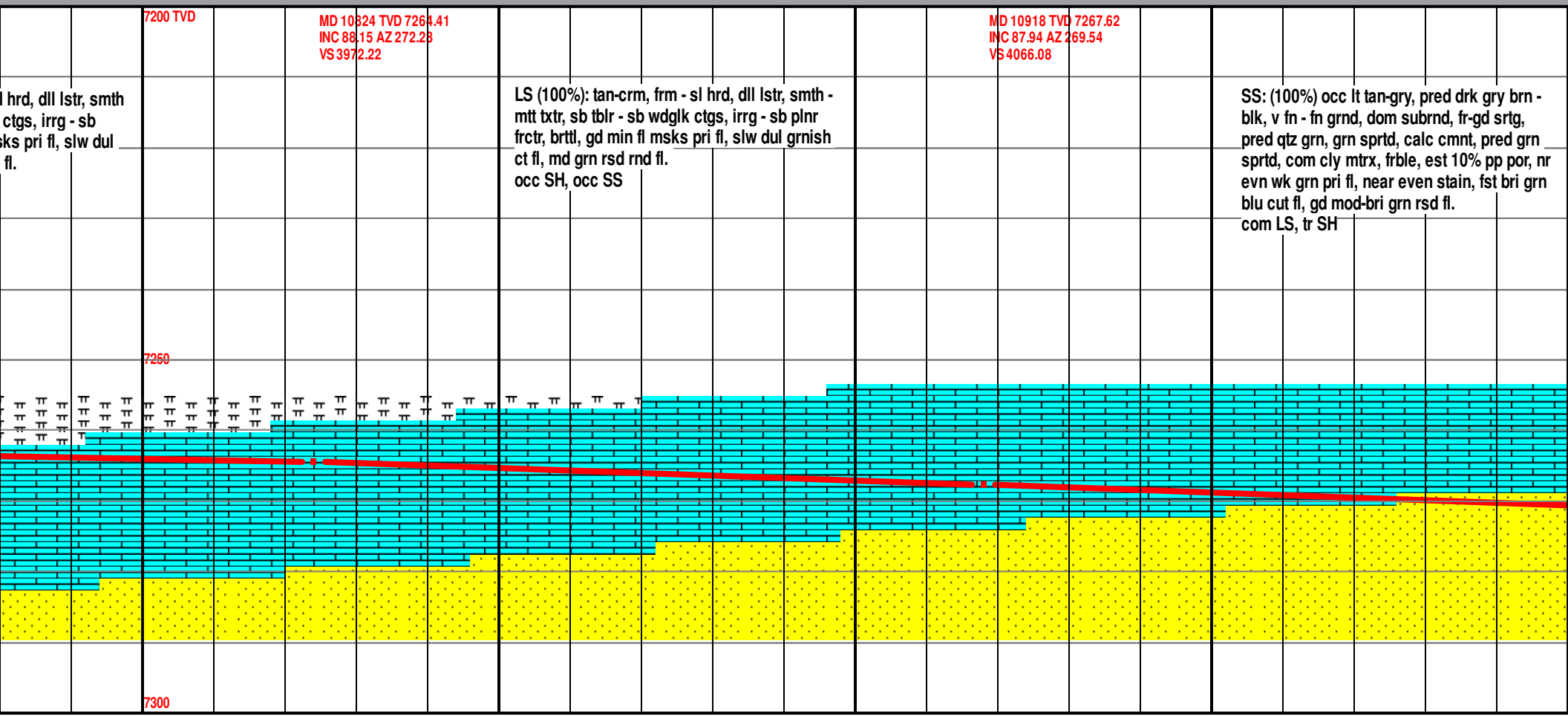
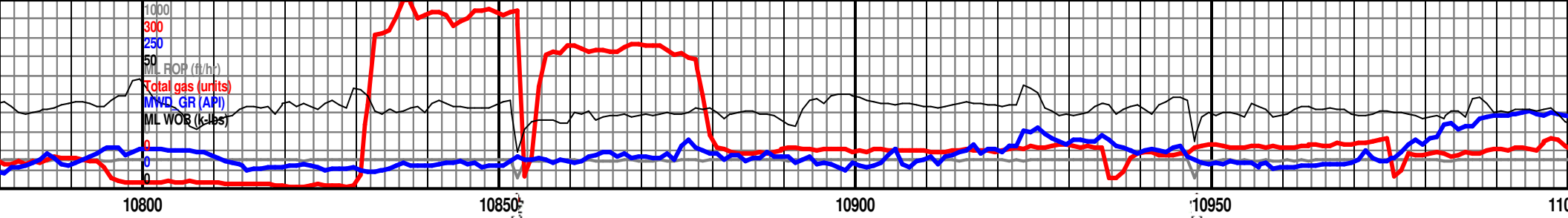
SS: (100%) occ lt tan-gry, pred drk gry brn -
blk, v fn - fn grnd, dom subrnd, fr-gd srtg,
pred qtz grn, grn sprtd, calc cmnt, pred grn
sprtd, com cly mtrx, frble, est 10% pp por,
nr evn wk grn pri fl, near even stain, fst bri
grn blu cut fl, gd mod-bri grn rsd fl, abndt
SH

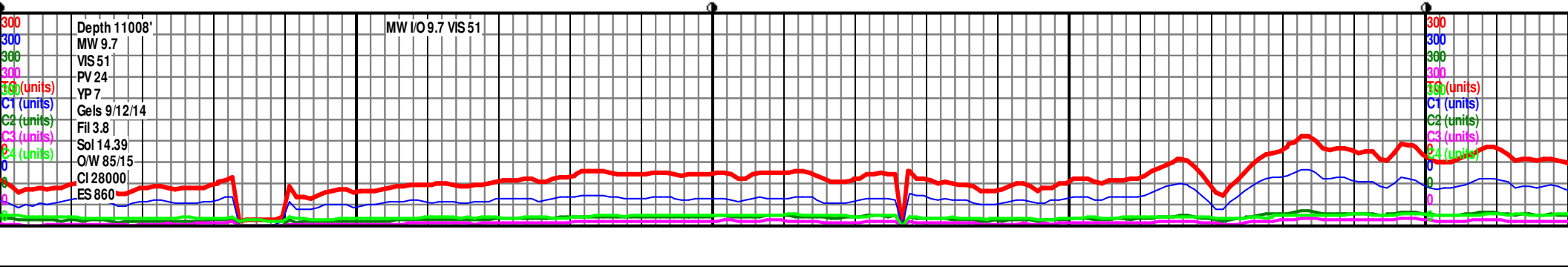
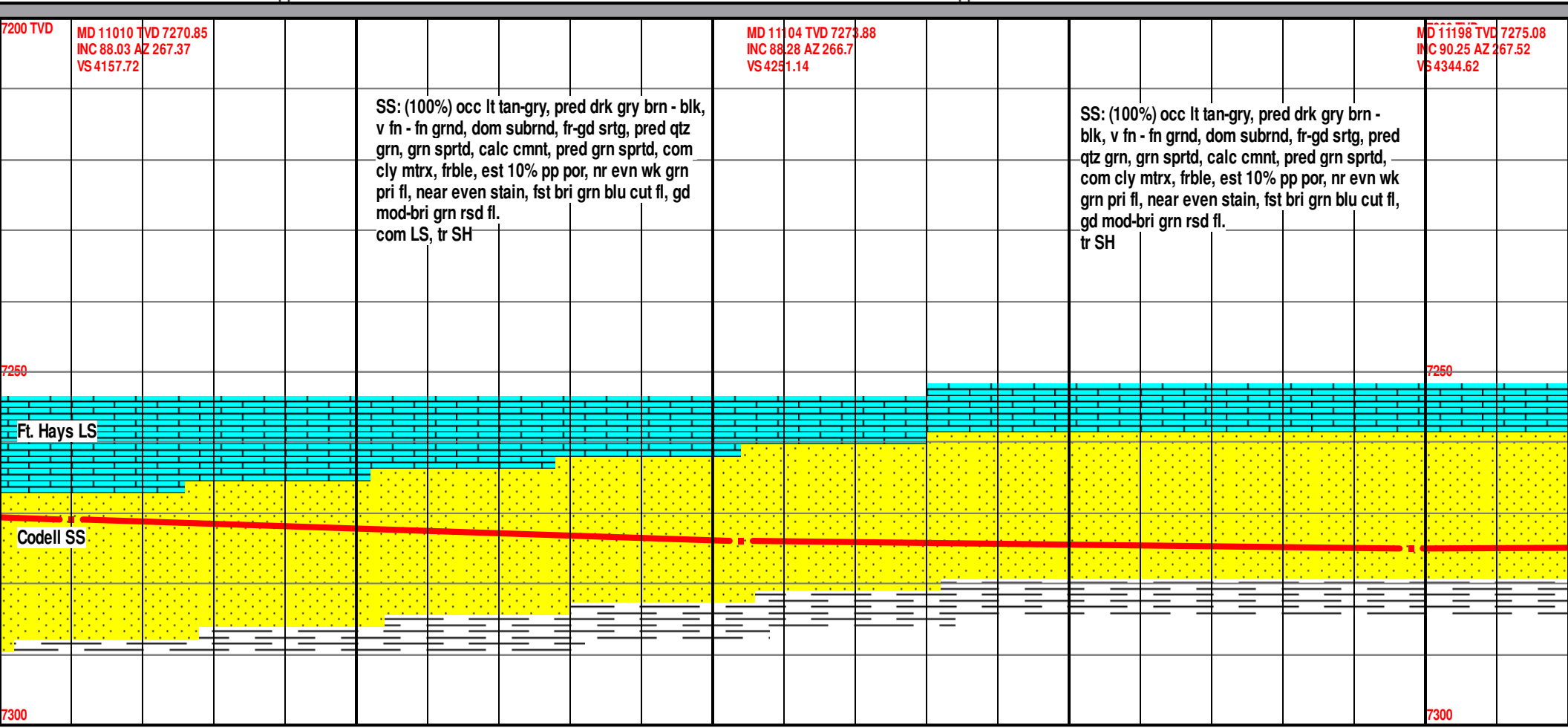
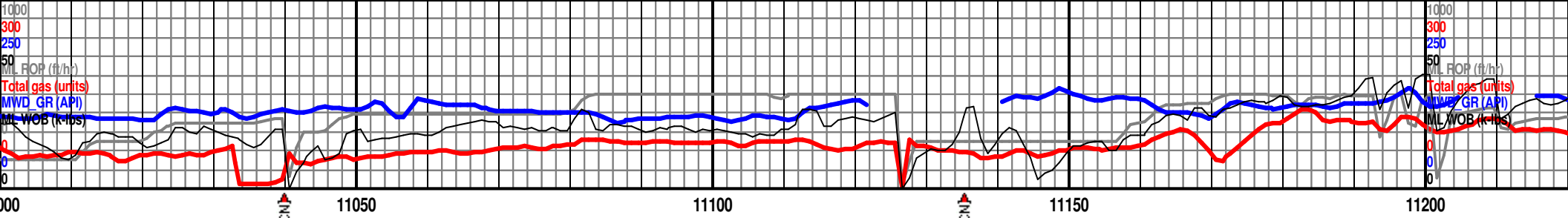
MD 10545 TVD 7262.87
INC 90.12 AZ 278.06
VS 3693.3

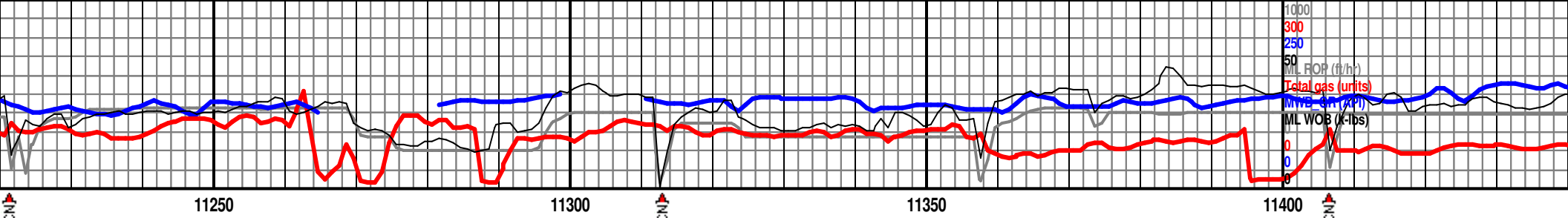
SS: (100%)
v fn - fn grnd, dom subrnd, fr-gd srtg,
pred qtz grn, grn sprtd, calc cmnt, pred grn
sprtd, com cly mtrx, frble, est 10% pp por,
nr evn wk grn pri fl, near even stain, fst bri
grn blu cut fl, gd mod-bri grn rsd fl, abndt
SH









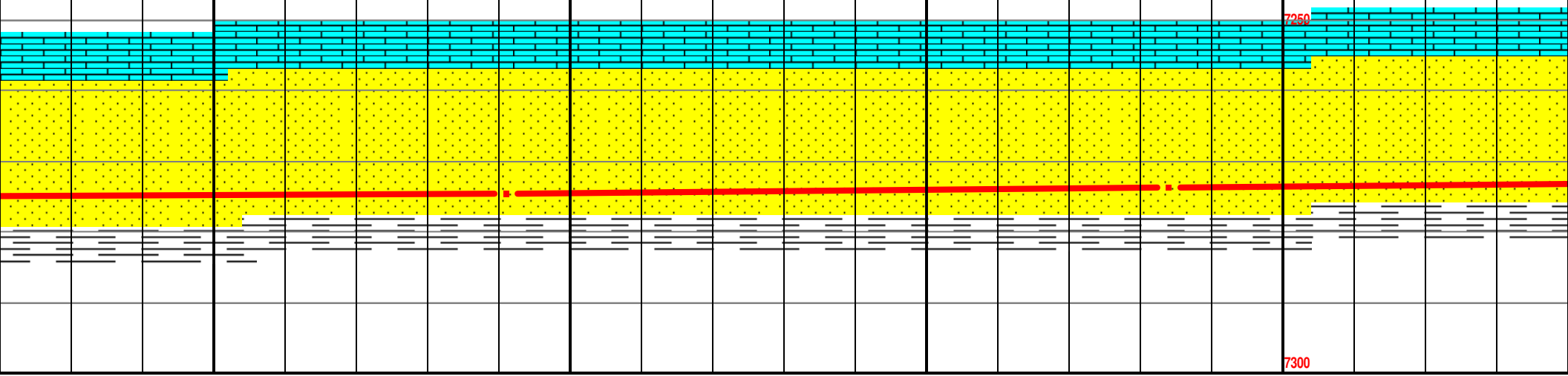


MD 11291 TVD 7274.58
INC 90.37 AZ 267.56
VS 4437.18

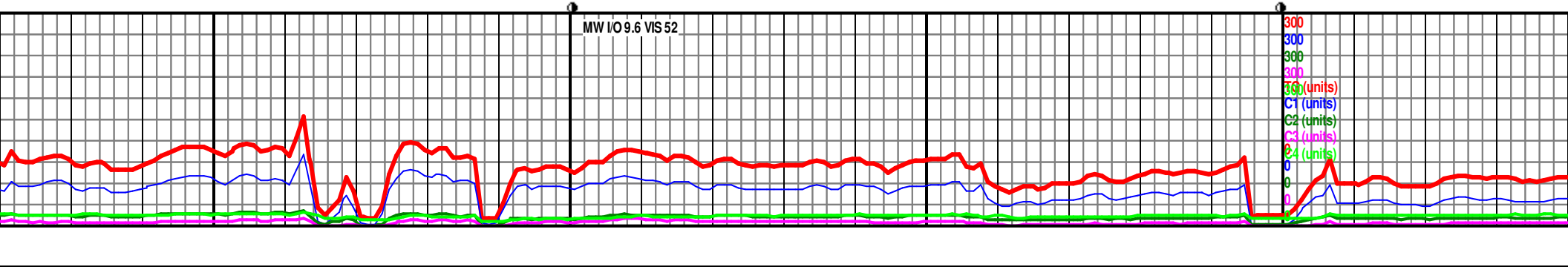
MD 11384 TVD 7275.68 TVD
INC 90.74 AZ 268.58
VS 4529.81

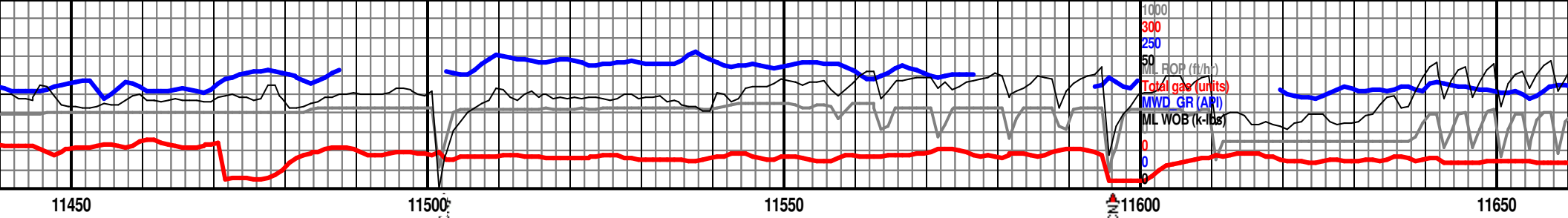
SS: (100%) occ lt tan-gry, pred drk gry brn -
blk, v fn - fn grnd, dom subrnd, fr-gd srtg, pred
qtz grn, grn sprtd, calc cmnt, pred grn sprtd,
com cly mtrx, frble, est 10% pp por, nr evn wk
grn pri fl, near even stain, fst bri grn blu cut fl,
gd mod-bri grn rsd fl.
tr SH

SS: (100%) occ lt tan-gry, pred drk gry brn -
blk, v fn - fn grnd, dom subrnd, fr-gd srtg, pred
qtz grn, grn sprtd, calc cmnt, pred grn sprtd,
com cly mtrx, frble, est 10% pp por, nr evn wk
grn pri fl, near even stain, fst bri grn blu cut fl,
gd mod-bri grn rsd fl.
tr SH, tr PRYT



MW I/O 9.6 VIS 52





MD 11478 TVD 7272.82
INC 90.31 AZ 268.86
VS 4623.53

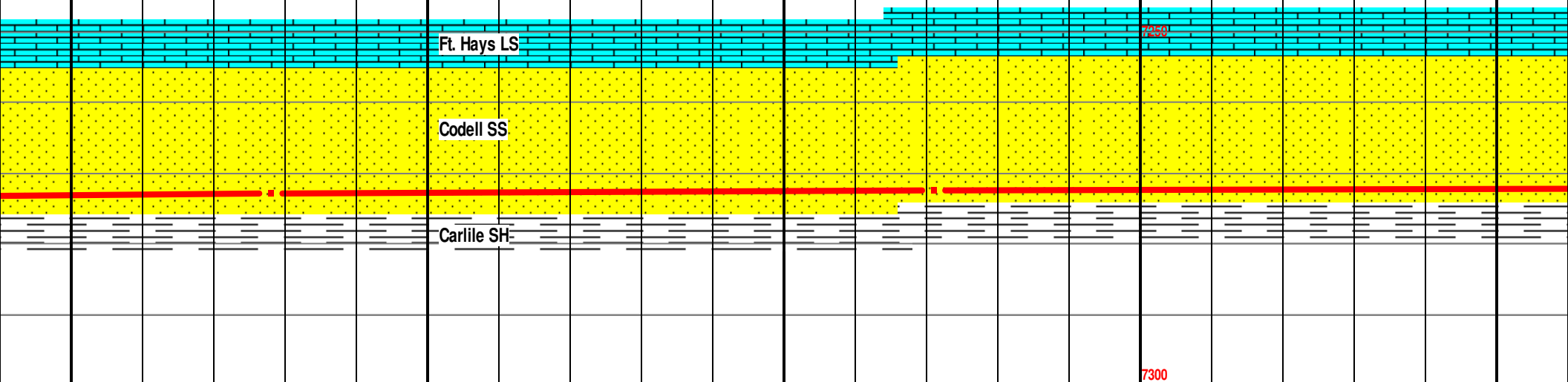
MD 11571 TVD 7272.5
INC 90.09 AZ 268.75
VS 4716.27

7200 TVD

SS: (100%) occ lt tan-gry, pred drk gry brn - blk, v fn - fn grnd, dom subrnd, fr-gd srtg, pred qtz grn, grn sprtd, calc cmnt, pred grn sprtd, com cly mtrx, frble, est 10% pp por, nr evn wk grn pri fl, near even stain, fst bri grn blu cut fl, gd mod-bri grn rsd fl.
tr SH

SS: (100%) occ lt tan-gry, pred drk gry brn - blk, v fn - fn grnd, dom subrnd, fr-gd srtg, pred qtz grn, grn sprtd, calc cmnt, pred grn sprtd, com cly mtrx, frble, est 10% pp por, nr evn wk grn pri fl, near even stain, fst bri grn blu cut fl, gd mod-bri grn rsd fl.
tr SH

SS: (100%)
v fn - fn
grn, grn
cly mtrx
pri fl, ne
mod-bri
tr SH

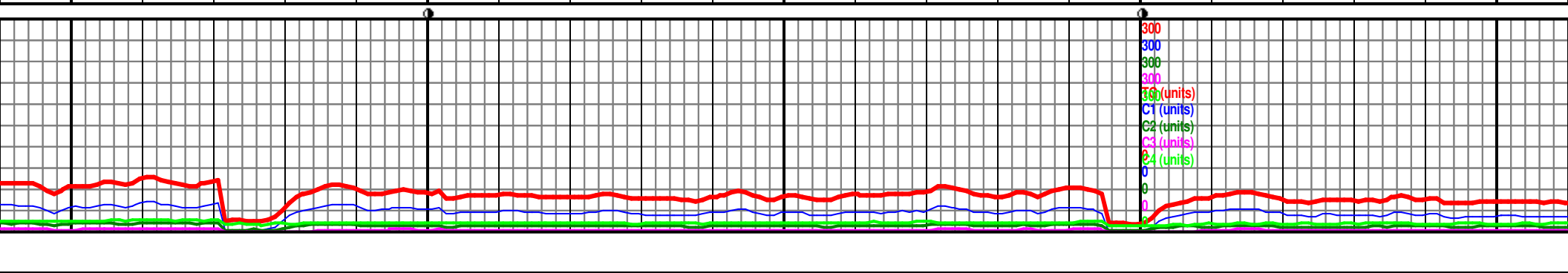


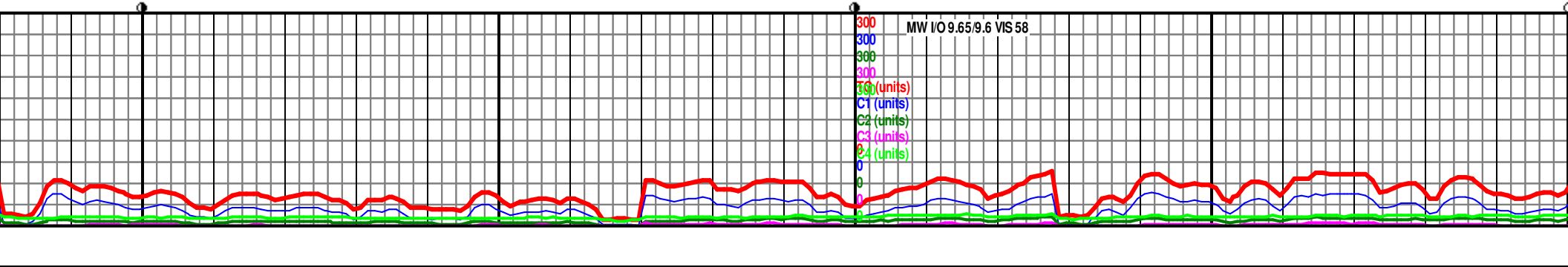
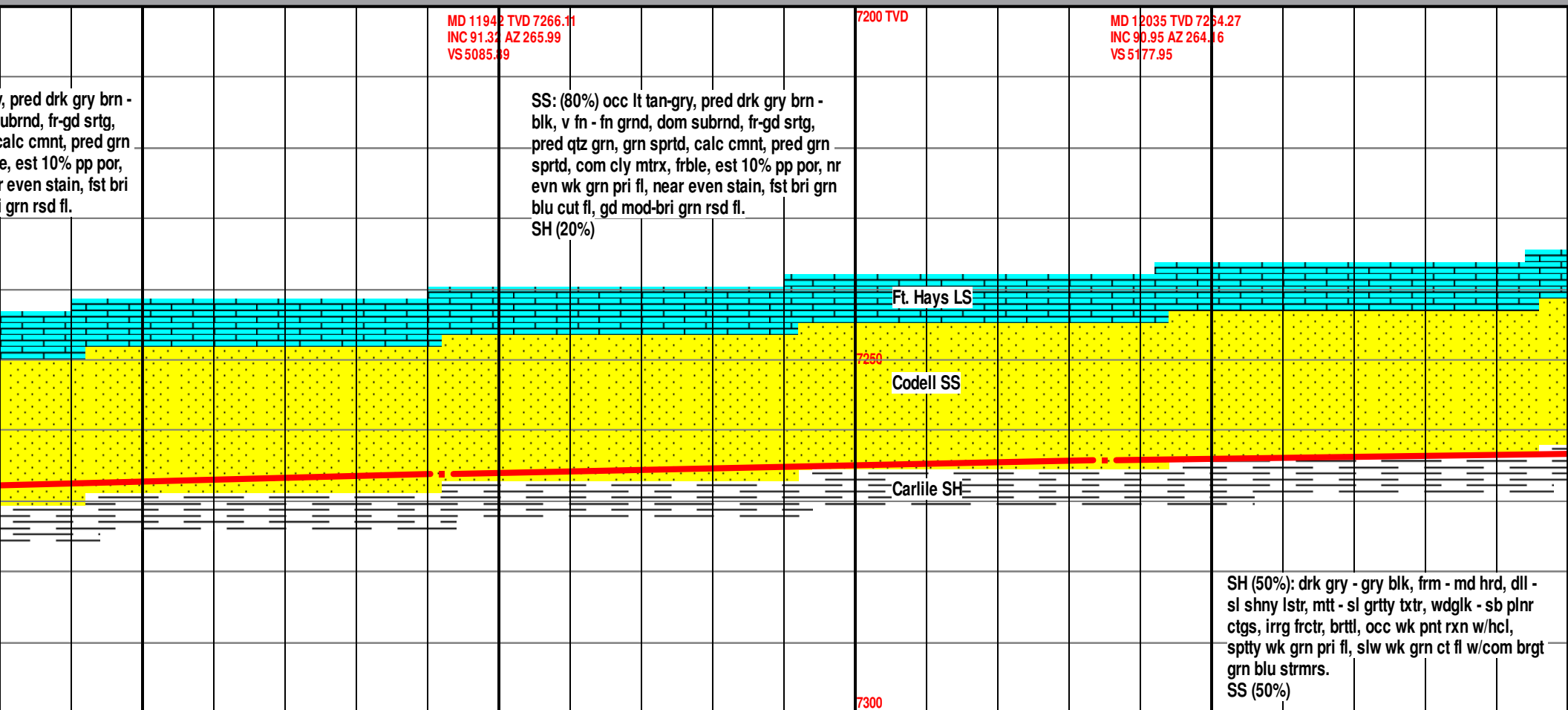
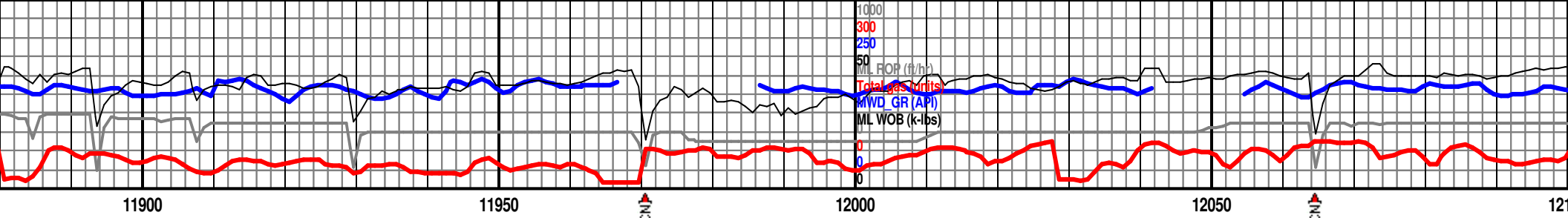
Ft. Hays LS

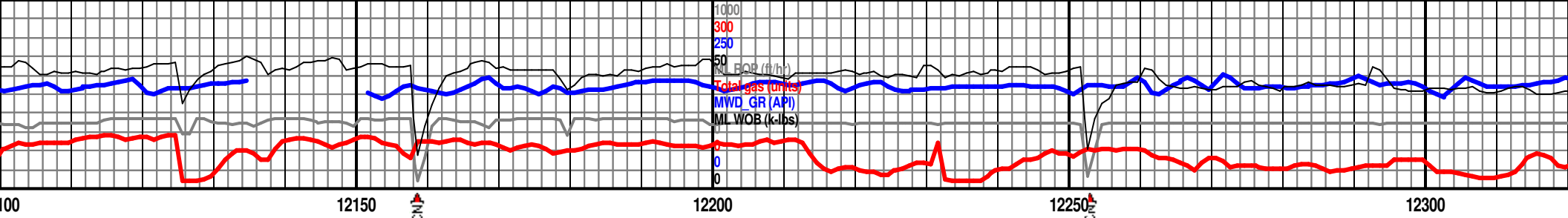
Codell SS

Carlile SH

7300





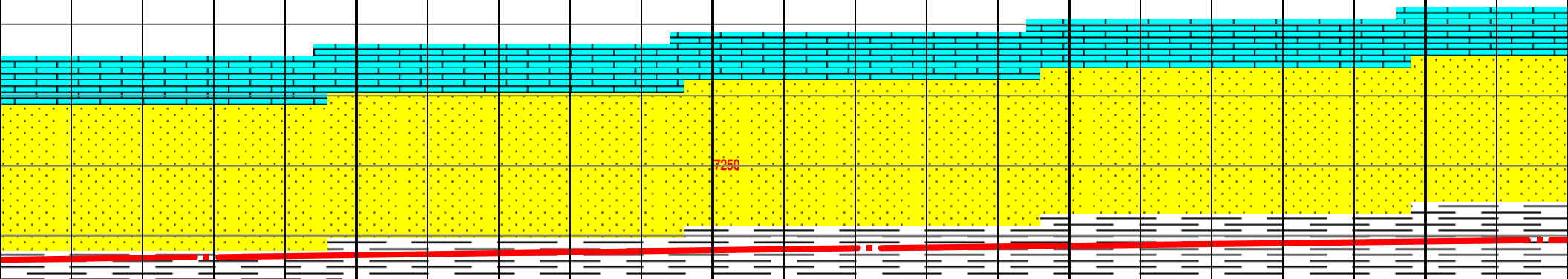


MD 12129 TVD 7262.86
INC 90.77 AZ 266.93
VS 5271.12

7200 TVD

MD 12222 TVD 7261.73
INC 90.62 AZ 268.63
VS 5363.71

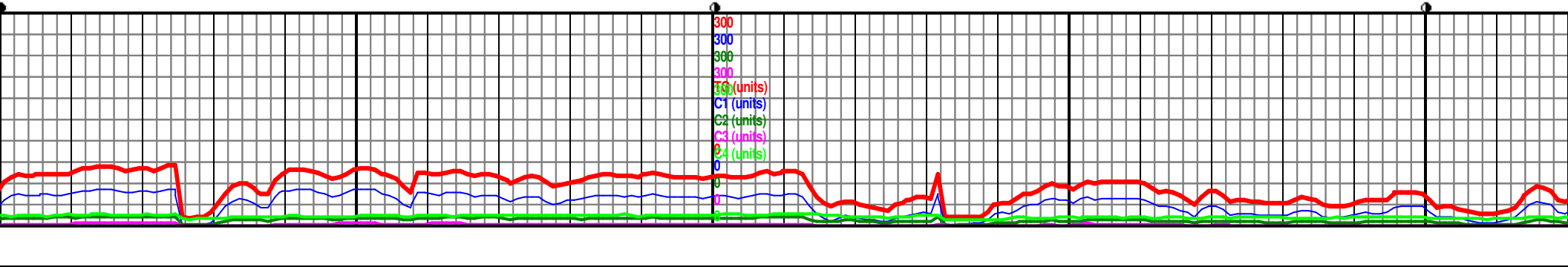
MD
INC
VS 5

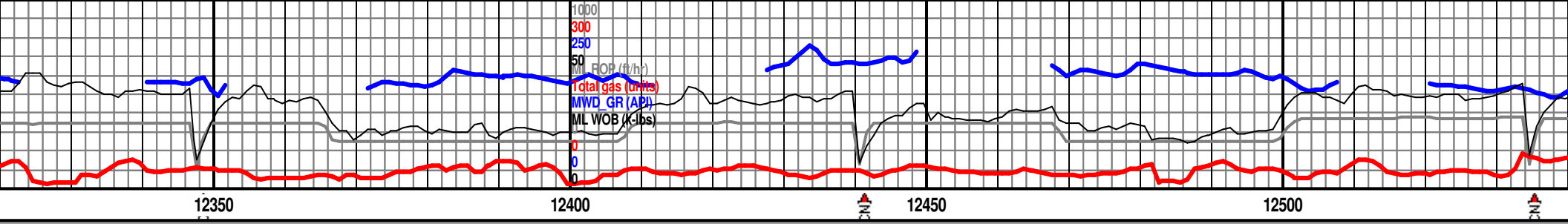


SH (90%): drk gry - gry blk, frm - md hrd, dll -
sl shny lstr, mtt - sl grtty txtr, wdgk - sb plnr
ctgs, irrgr frctr, brttl, occ wk pnt rxn w/hcl,
sppty wk grn pri fl, slw wk grn ct fl w/com brgt
grn blu strms.
SS (10%), occ chlk

SH (90%): drk gry - gry blk, frm - md hrd, dll - sl
shny lstr, mtt - sl grtty txtr, wdgk - sb plnr ctgs,
irrgr frctr, brttl, occ wk pnt rxn w/hcl, sppty wk
grn pri fl, slw wk grn ct fl w/com brgt, grn blu
strms.
SS (10%), occ chlk

7300

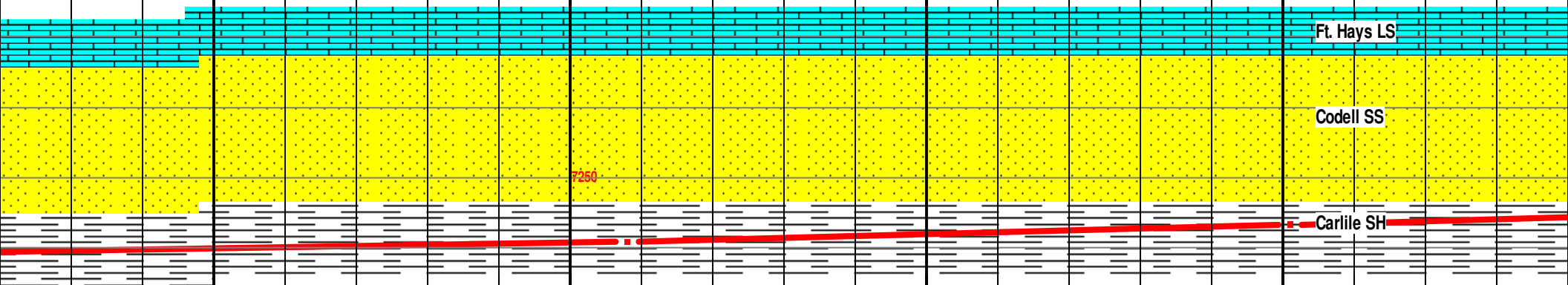




12316 TVD 7260.59
90.77 AZ 271.3
457.55

7200 TVD MD 12408 TVD 7258.96
INC 91.26 AZ 273.81
VS 5549.52

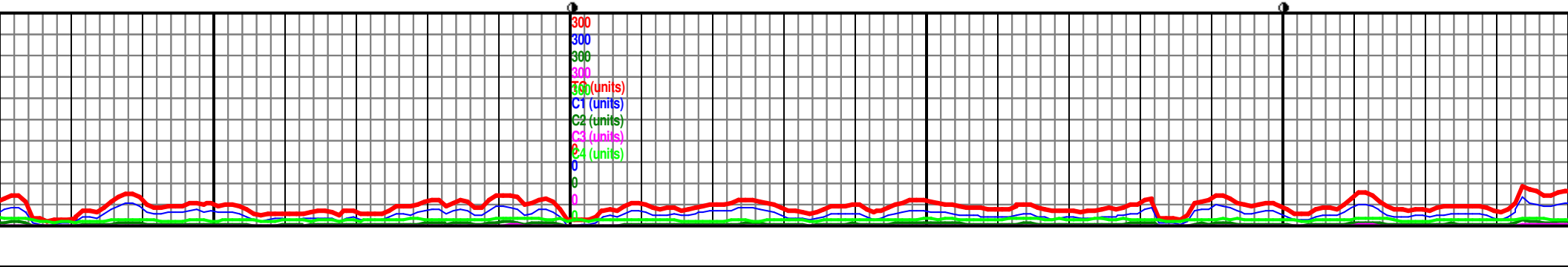
MD 12501 TVD 7256.64
INC 91.6 AZ 273.97
VS 5642.49

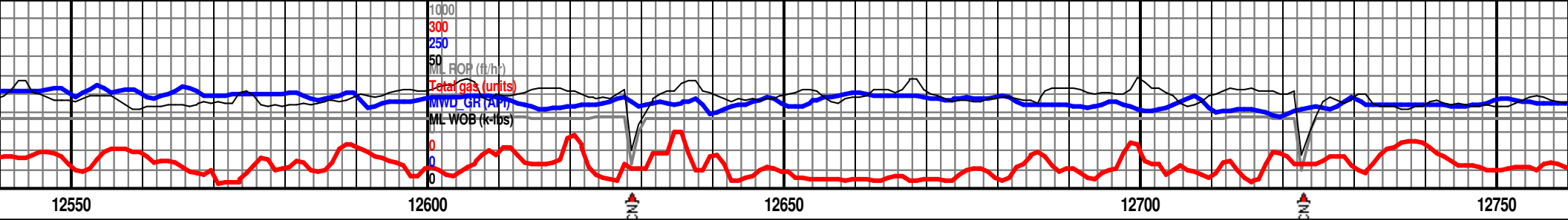


SH (90%): drk gry - gry blk, frm - md hrd, dll - sl shny lstr, mtt - sl grtty txtr, wdglk - sb plnr ctgs, irrg frctr, brttl, occ wk pnt rxn w/hcl, sppty wk grn pri fl, slw wk grn ct fl w/com brgt, grn blu strrms.
SS (10%), occ chlk

SH (80%): drk gry - gry blk, frm - md hrd, dll - sl shny lstr, mtt - sl grtty txtr, wdglk - sb plnr ctgs, irrg frctr, brttl, occ wk pnt rxn w/hcl, sppty wk grn pri fl, slw wk grn ct fl w/com brgt, grn blu strrms.
SS (20%), occ chlk

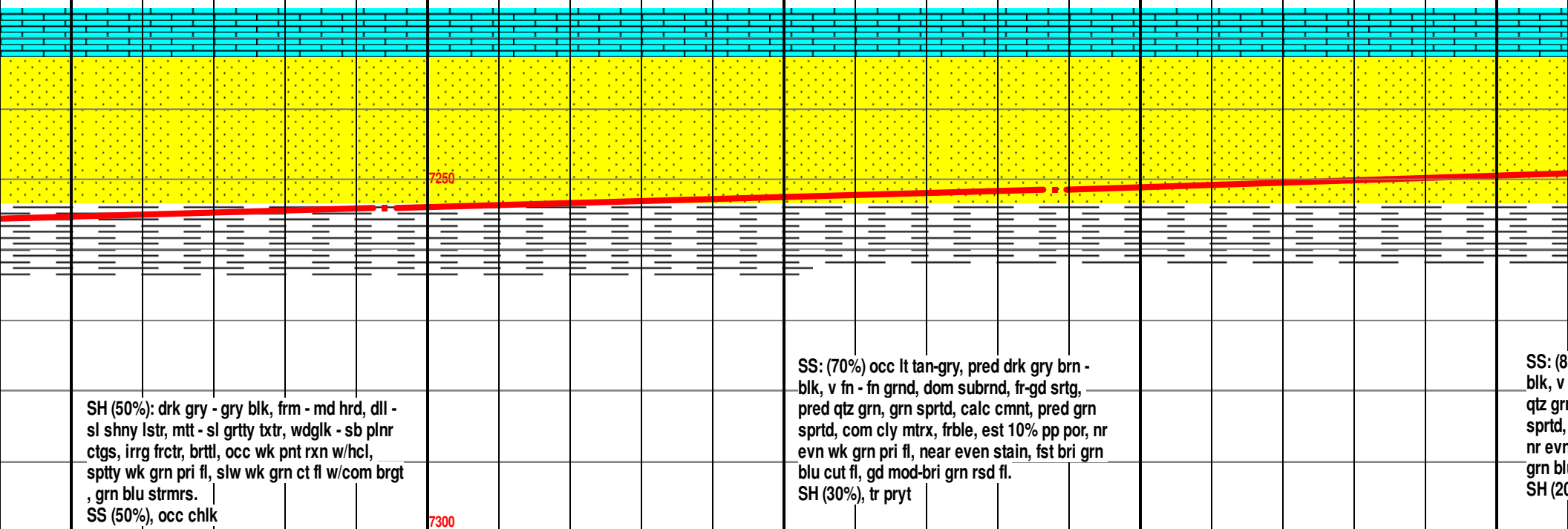
7300





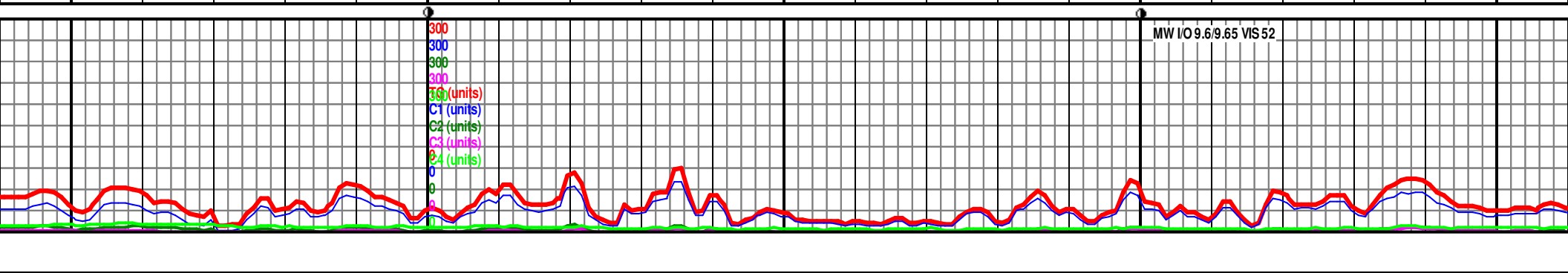
MD 12594 TVD 7254.16
INC 91.45 AZ 272.89
VS 5735.45

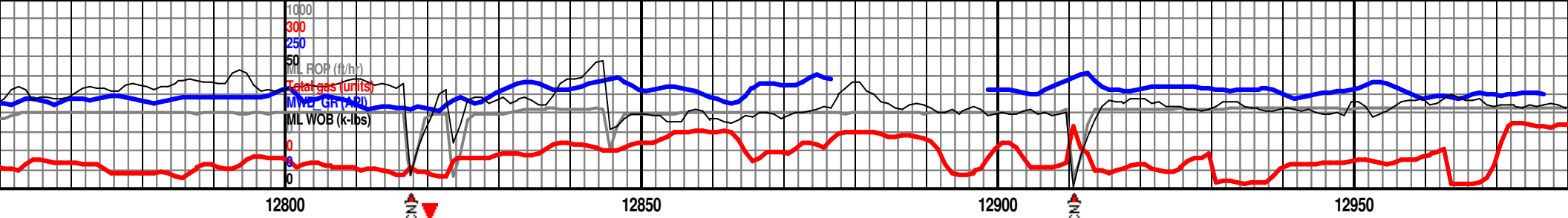
MD 12688 TVD 7251.43
INC 91.88 AZ 271.46
VS 5829.4



7300

MW I/O 9.6/9.65 VIS 52



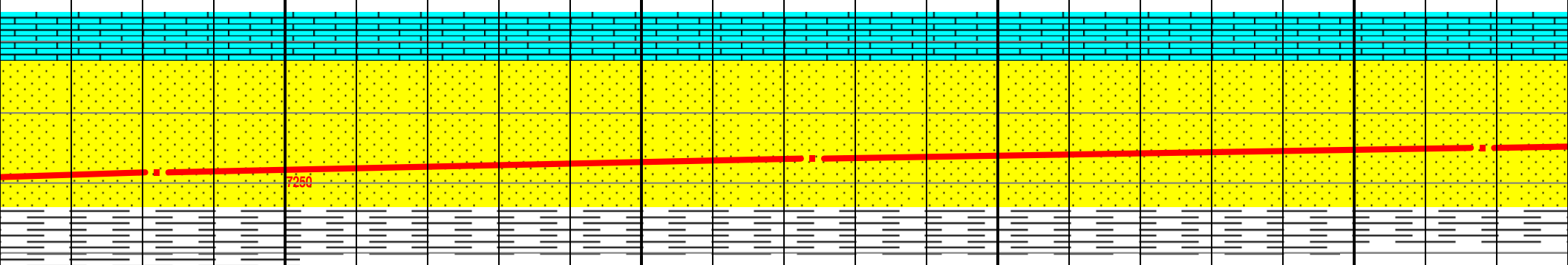


MD 12782 TVD 7248.5
INC 91.63 AZ 270.34
VS 5923.28

Off Bottom @ 12,817' MD to work on
Mud Pump #2

MD 12874 TVD 7246.45
INC 90.99 AZ 271.77
VS 6015.2

MD 12968 TVD 7246.45
INC 90.74 AZ 271.77
VS 6109.17

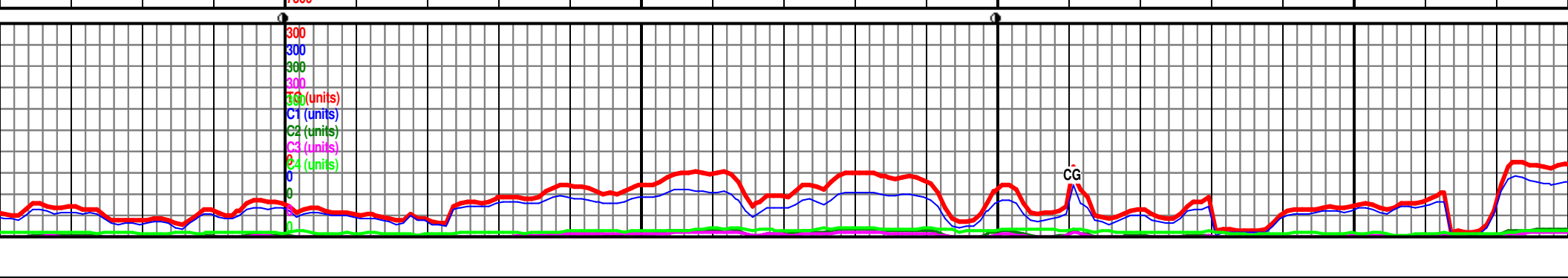


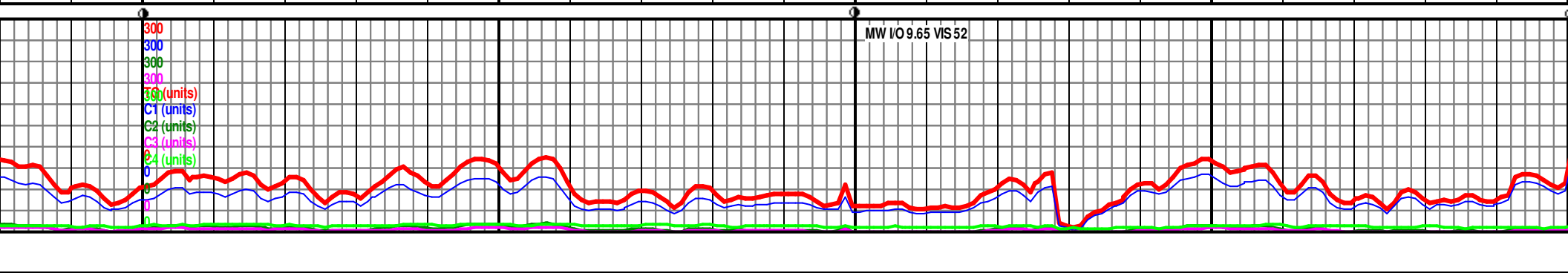
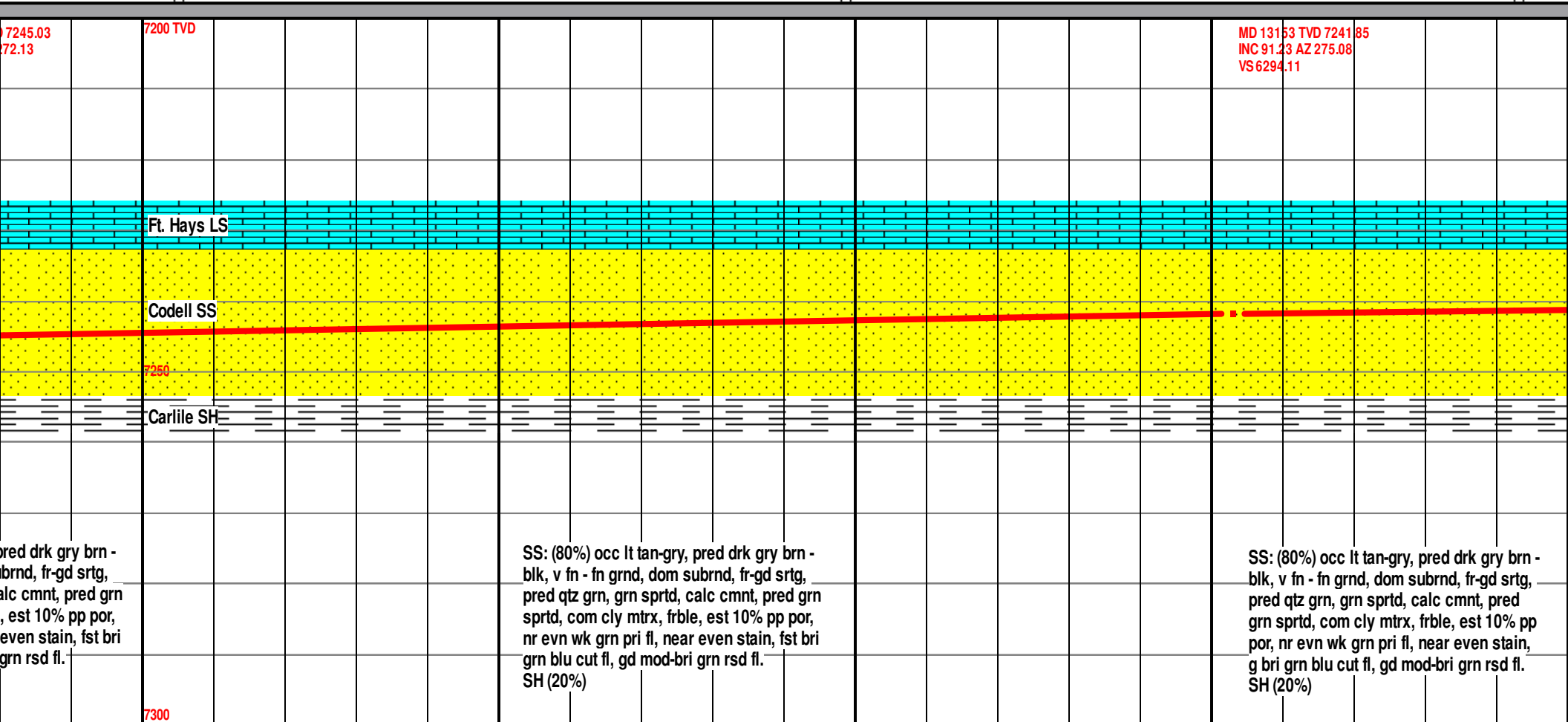
0% rr lt tan-gry, pred drk gry brn -
fn - fn grnd, dom subrnd, fr srtg, pred
n, grn sprtd, calc cmnt, pred grn
com cly mtrx, frble, est 10% pp por,
wk grn pri fl, near even stain, fst bri
u cut fl, gd mod-bri grn rsd fl.

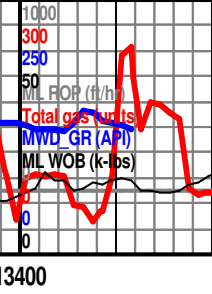
SS: (80%) occ lt tan-gry, pred drk gry brn -
blk, v fn - fn grnd, dom subrnd, fr-gd srtg,
pred qtz grn, grn sprtd, calc cmnt, pred grn
sprtd, com cly mtrx, frble, est 10% pp por, nr
evn wk grn pri fl, near even stain, fst bri grn
blu cut fl, gd mod-bri grn rsd fl.
SH (20%)

SS: (80%) occ lt tan-gry, pred drk gry brn -
blk, v fn - fn grnd, dom subrnd, fr-gd srtg,
pred qtz grn, grn sprtd, calc cmnt, pred grn
sprtd, com cly mtrx, frble, est 10% pp por, nr
evn wk grn pri fl, near even stain, fst bri grn
blu cut fl, gd mod-bri grn rsd fl.
SH (20%)

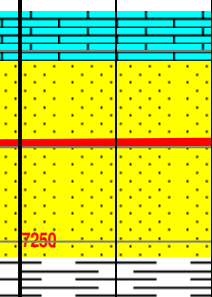
7300







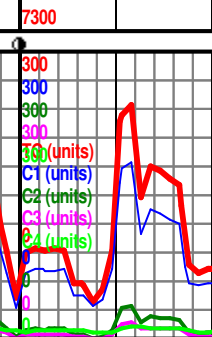
Off Bottom @ 13,4
on Mud Pump #1

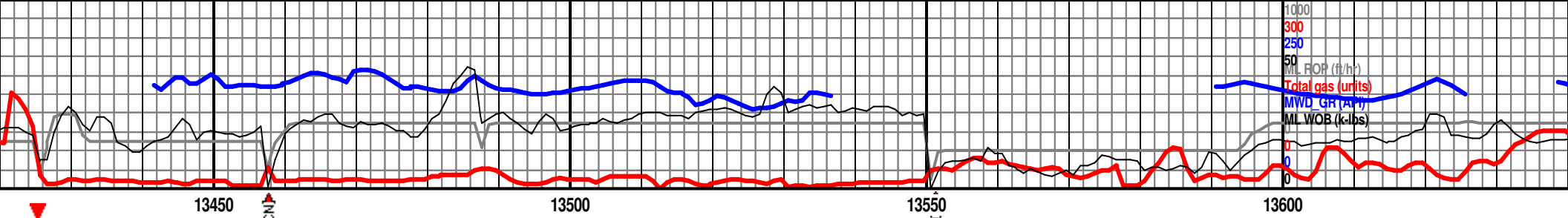


SS: (90%) v com lt tan-gry, pred drk gry brn
- blk, v fn - fn grnd, com subrnd, fr-gd srtg,
pred qtz grn, grn sprtd, calc cmnt, pred grn
sprtd, com cly mtrx, frble, est 10% pp por,
nr evn wk grn pri fl, near even stain, fst bri
grn blu cut fl, gd mod-bri grn rsd fl.
SH (10%)

SH (20%) |

SH (10%)

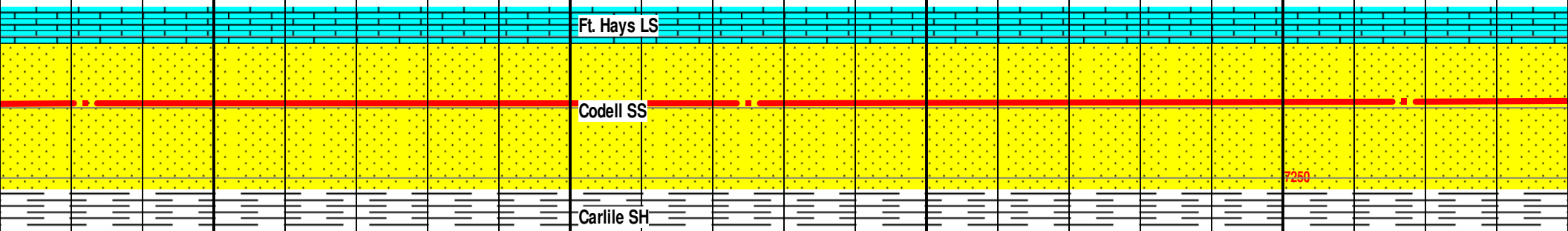




25' MD to work MD 13432 TVD 7239.53 C 90.09 AZ 272.58 VS 6573.05

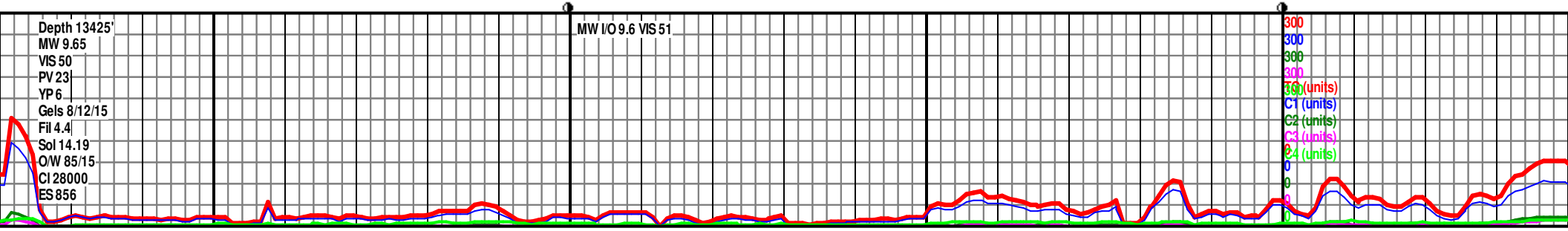
Small flare (1-3') observed MD 13525 TVD 7239.5 INC 89.94 AZ 267.3 VS 6665.88

7200 TVD MD 13617 TVD 7239.3 INC 90.31 AZ 245.21 VS 6757.21



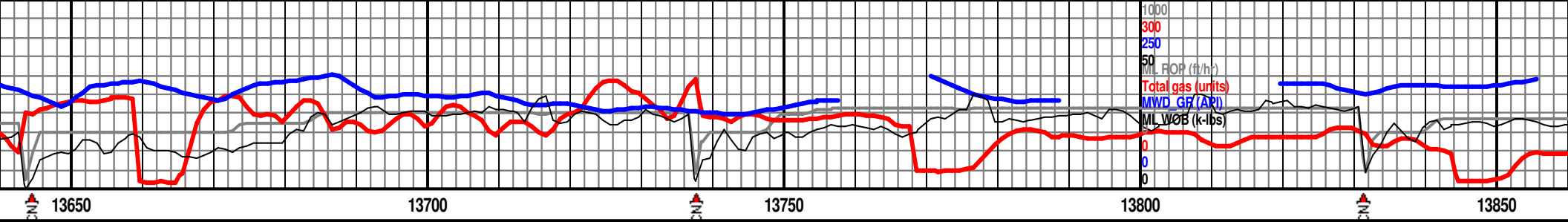
SS: (90%) v com lt tan-gry, pred drk gry brn - blk, v fn - fn grnd, dom subrnd, fr-gd srtg, pred qtz grn, grn sprtd, calc cmnt, pred grn sprtd, com cly mtrx, frble, est 10% pp por, nr evn wk grn pri fl, near even stain, fst bri grn blu cut fl, gd mod-bri grn rsd fl. SH (10%)

SS: (90%) v com lt tan-gry, pred drk gry brn, v fn - fn grnd, dom subrnd, fr-gd srtg, dom qtz grn, pred grn sprtd, calc cmnt, pred grn sprtd, com cly mtrx, frble, est 10% pp por, nr evn wk grn pri fl, near even stain, g bri grn blu cut fl, gd mod-bri grn rsd fl. SH (10%)



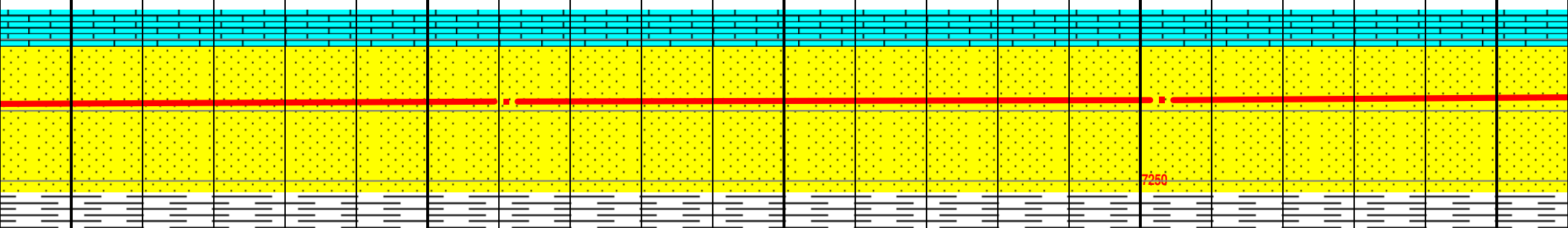
Depth 13425'
MW 9.65
VIS 50
PV 23
YP 6
Gels 8/12/15
Fil 4.4
Sol 14.19
OW 85/15
CI 28000
ES 856

MW I/O 9.6 VIS 51



MD 13711 TVD 7238.84
INC 90.25 AZ 267.07
VS 6850.52

7200 MD 13803 TVD 7238.47
INC 90.22 AZ 266.86
VS 6941.99

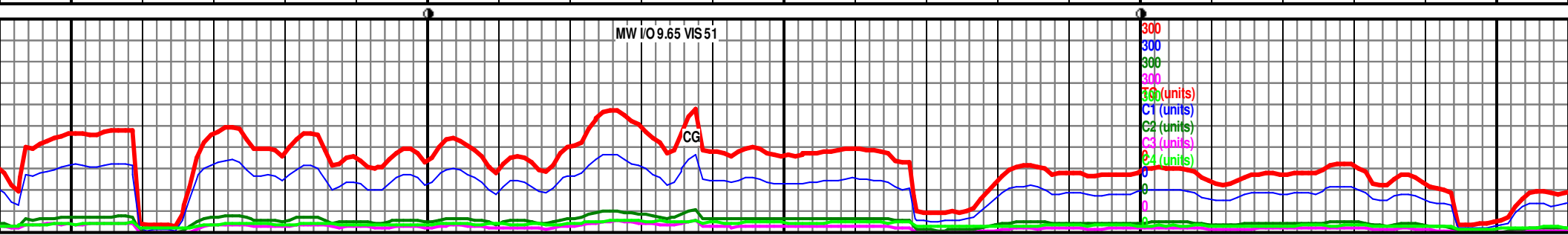


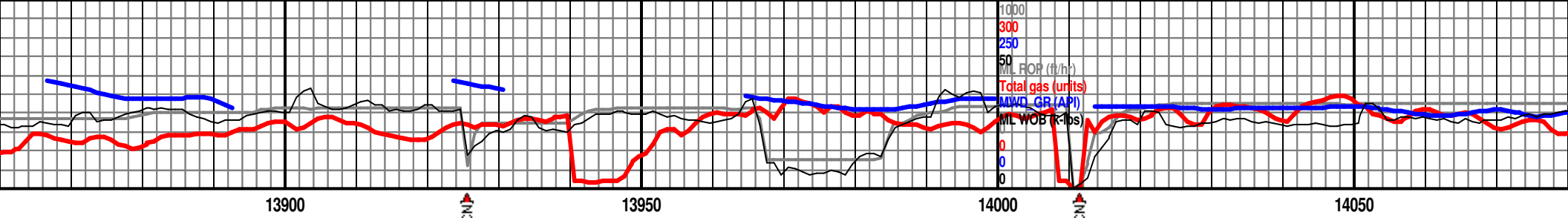
SS: (95%) v com lt tan-gry, pred drk gry brn - blk, v fn - fn grnd, dom subrnd, fr-gd srtg, pred qtz grn, grn sprtd, calc cmnt, pred grn sprtd, com cly mtrx, frble, est 10% pp por, nr evn wk grn pri fl, near even stain, g bri grnsh blu cut fl, gd mod-bri grn rsd fl.
SH (5%), rr pyr

SS: (95%) com lt tan-gry, pred drk brn blk, v fn - fn grnd, dom subrnd, fr srtg, pred qtz grn, grn sprtd, calc cmnt, pred grn sprtd, cly/slt mtrx, frble, est 10% pp por, nr evn wk grn pri fl, near even stain, fst bri grn blu cut fl, gd mod-bri grn rsd fl.
SH (5%)

SS: (95%) v fn - fn grnd, dom subrnd, fr srtg, pred qtz grn, grn sprtd, calc cmnt, pred grn sprtd, com cly mtrx, frble, est 10% pp por, nr evn wk grn pri fl, near even stain, g bri grnsh blu cut fl, gd mod-bri grn rsd fl.
SH (5%)

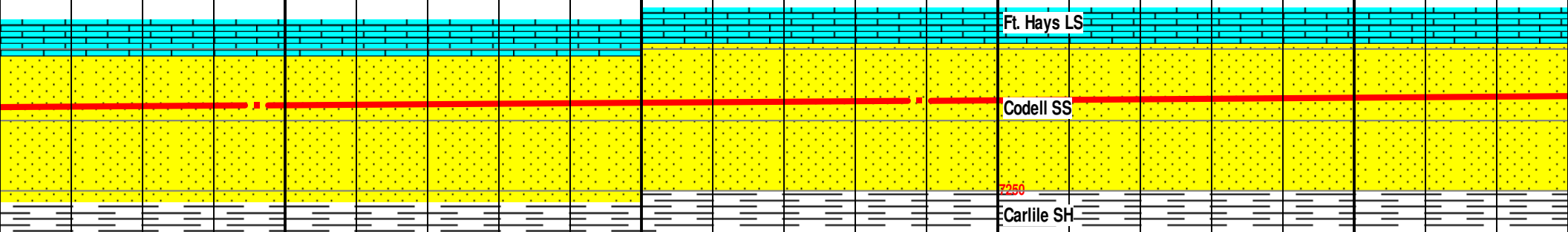
MW I/O 9.65 VIS 51





MD 13896 TVD 7237.87
INC 90.52 AZ 268
VS 7034.53

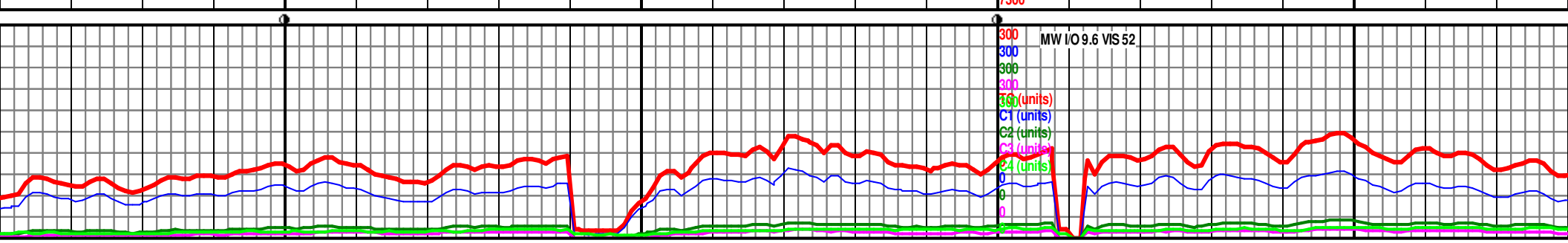
MD 13989 TVD 7237.19
INC 90.31 AZ 269.16
VS 7127.24

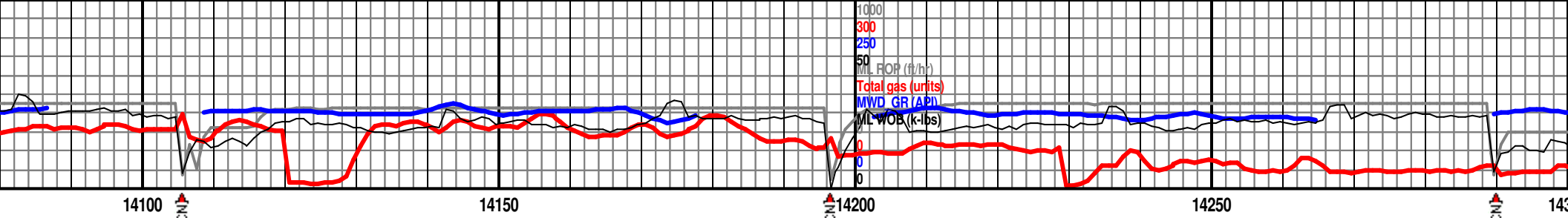


(%) tr lt tan-gry, pred drk gry brn - blk, grnd, dom subrnd, fr-gd srtg, pred grn sprtd, calc cmnt, pred grn sprtd, y mtrx, frble, est 10% pp por, nr evn pri fl, near even stain, gd fst bri grn fl, gd mod-bri grn rsd fl.

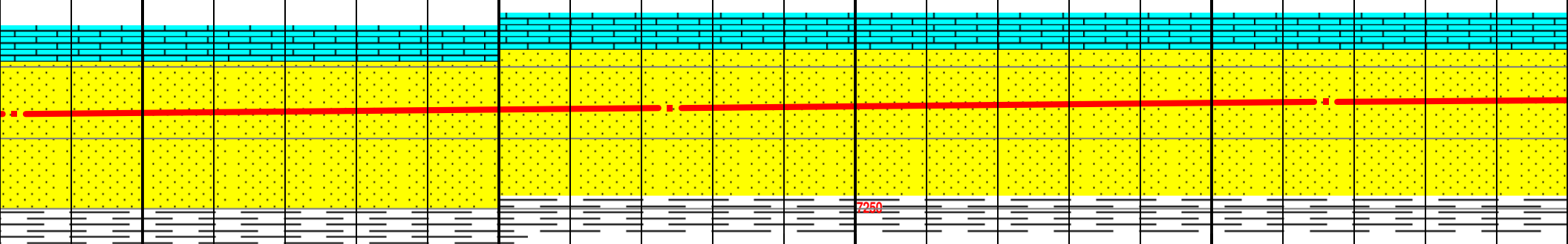
SS: (95%) com lt tan-gry, pred drk gry brn - blk, v fn - fn grnd, dom subrnd, fr-gd srtg, pred qtz grn w/ rr lithics, grn sprtd, calc cmnt, pred grn sprtd, com cly mtrx, frble, est 10% pp por, nr evn wk grn pri fl, near even stain, fst bri grn blu cut fl, gd mod-bri grn rsd fl.
SH (5%)

SS: (100%) v com lt tan-gry, brn - blk, v fn - fn grnd, dom subrnd, fr-gd srtg, pred qtz grn, grn sprtd, pred grn sprtd, com cly mtrx, frble, est 10% pp por, nr evn wk grn pri fl, near even stain, g fst bri grn blu cut fl, abndt SH, rr pyr

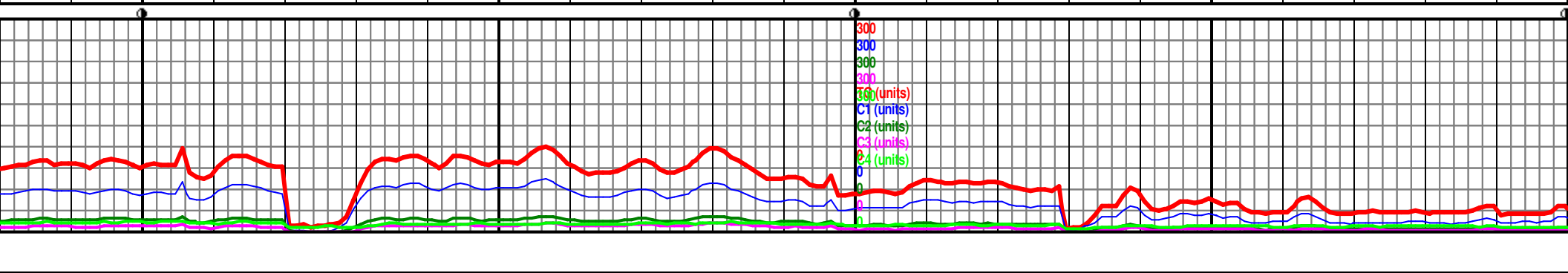


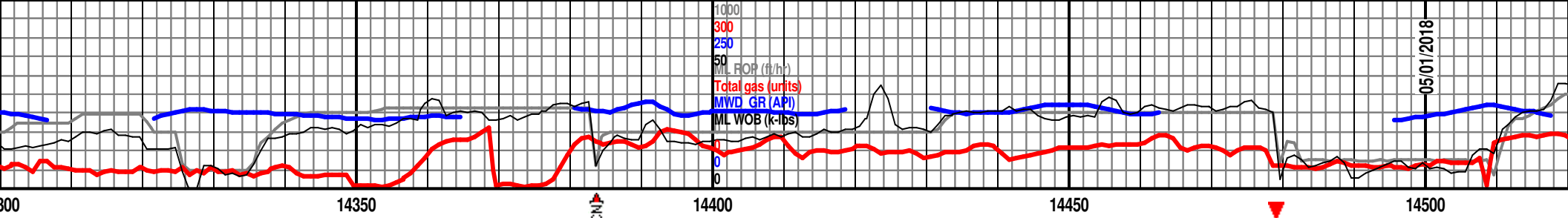


MD 14082 TVD 7236.59 INC 90.43 AZ 268.07 VS 7219.95	MD 14174 TVD 7235.83 INC 90.52 AZ 267.18 VS 7311.52	7200 TVD	MD 14266 TVD 7235.02 INC 90.49 AZ 268.57 VS 7402.98
---	---	----------	---



ry, pred drk gry m subrnd, fr-gd td, calc cmnt, ntrx, frble, est n pri fl, near even fl, gd mod-bri grn	SS: (100%) v com lt tan-gry, pred drk gry brn - blk, v fn - fn grnd, dom subrnd, fr-gd srtg, pred qtz grn, grn sprtd, calc cmnt, pred grn sprtd, com cly mtrx, frble, est 10% pp por, nr evn wk grn pri fl, near even stain, fst bri grn blu cut fl, gd mod-bri grn rsd fl, abndt SH.	SS: (100%) tr lt tan-gry, pred drk gry brn - blk, v fn - fn grnd, dom subrnd, fr-gd srtg, pred qtz grn, grn sprtd, calc cmnt, pred grn sprtd, com cly mtrx, frble, est 10% pp por, nr evn wk grn pri fl, near even stain, fst bri grn blu cut fl, gd mod-bri grn rsd fl, tr SH.
--	--	---





MD 14359 TVD 7234.37
INC 90.31 AZ 264.83
VS 7495.2

7200 TVD

MD 14454 TVD Off Bottom @ 14,479' MD to work on
INC 90.12 AZ 2' Mud Pump #2
VS 7589.05



Ft. Hays LS

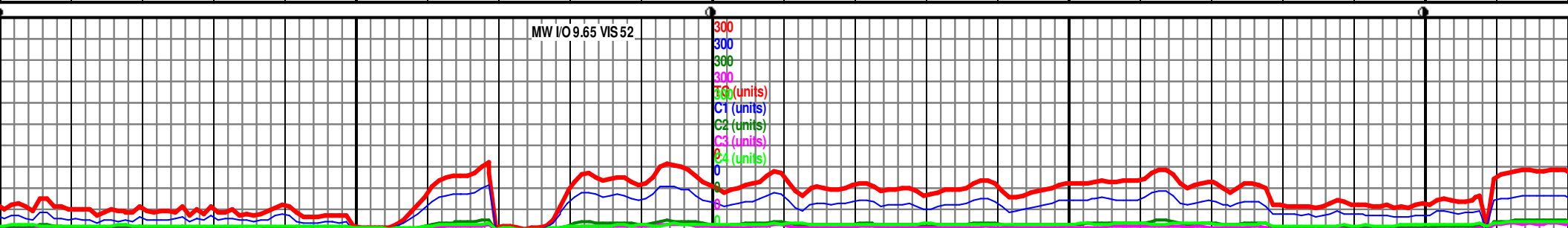
Codell SS

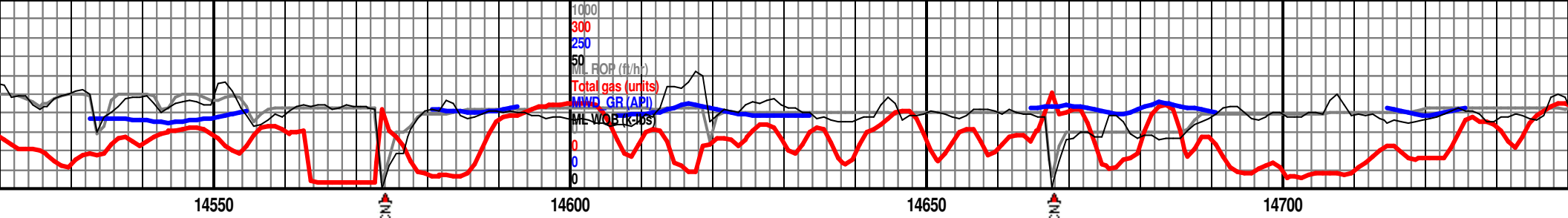
Carlile SH

SS: (100%) tr lt tan-gry, pred drk gry brn - blk, v fn - fn grnd, dom subrnd, fr-gd srtg, pred qtz grn, grn sprtd, calc cmnt, pred grn sprtd, com cly mtrx, frble, est 10% pp por, nr evn wk grn pri fl, near even stain, g fst bri grn blu cut fl, gd mod-bri grn rsd fl, tr SH.

SS: (100%) occ lt tan-gry, pred drk gry brn - blk, v fn - fn grnd, dom subrnd, fr-gd srtg, pred qtz grn, grn sprtd, calc cmnt, pred grn sprtd, com cly mtrx, frble, est 10% pp por, nr evn wk grn pri fl, near even stain, fst bri grnsh blu cut fl, gd mod-bri grn rsd fl.

MW I/O 9.65 VIS 52



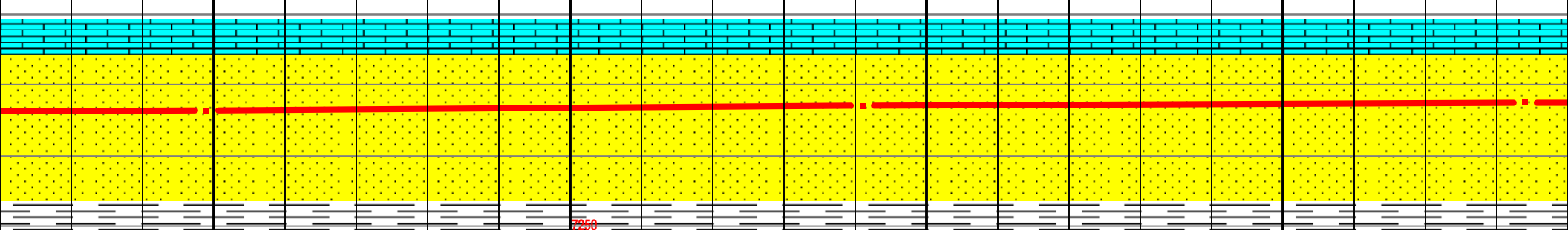


MD 14549 TVD 7233.66
INC 90.31 AZ 263.95
VS 7682.8

7200 TVD

MD 14641 TVD 7233.06
INC 90.43 AZ 264.91
VS 7773.7

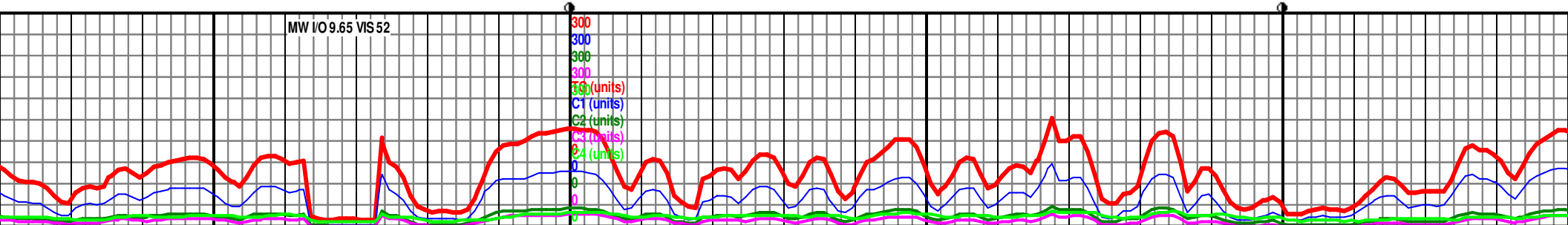
MD 14743 TVD 7233.06
INC 90.43 AZ 264.91
VS 7864.7

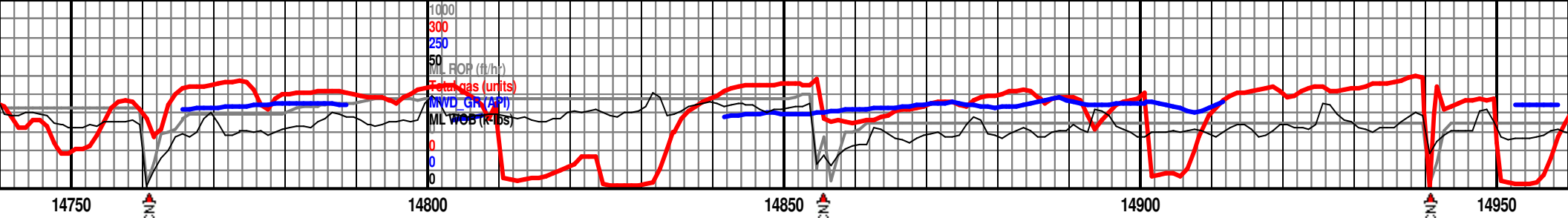


SS: (100%) com lt tan-gry, pred drk gry
brn - blk, v fn - fn grnd, dom subrnd, fr-gd
srtg, pred qtz grn, grn sprtd, dom calc
cmnt, pred grn sprtd, com cly mtrx, frble,
est 10% pp por, nr evn wk grn pri fl, near
even stain, fst bri grn blu cut fl, gd
mod-bri grn rsd fl.

SS: (100%) tr lt tan-gry, pred drk gry brn -
blk, v fn - fn grnd, dom subrnd, fr-gd srtg,
pred qtz grn, com uncongs grns, calc cmnt,
grn sprtd, com cly mtrx, frble, est 10% pp
por, nr evn wk grn pri fl, near even stain, gd
fst bri grn blu cut fl, gd mod-bri grn rsd fl.

MW I/O 9.65 VIS 52



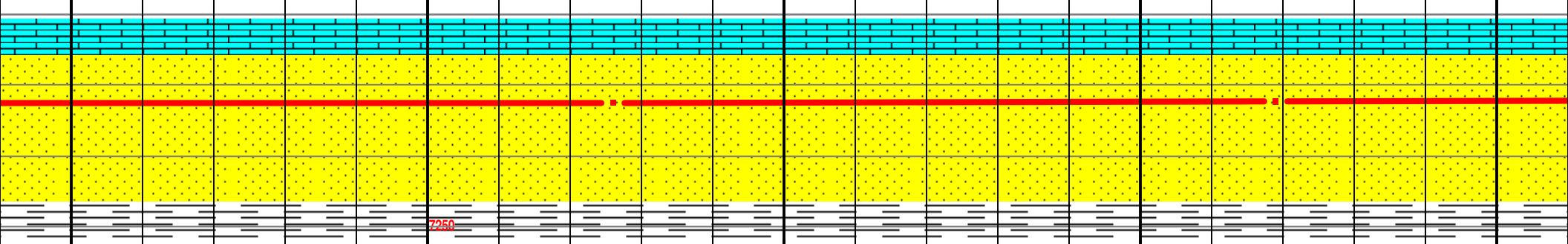


734 TVD 7232.64
09 AZ 265.02
5.81

7200 TVD

MD 14826 TVD 7232.5
INC 90.09 AZ 264
VS 7956.77

MD 14919 TVD 7232.28
INC 90.18 AZ 265.07
VS 8048.73



SS: (100%) tr lt tan-gry, pred drk gry brn - blk, v fn - fn grnd, dom subrnd, fr-gd srtg, pred qtz grn, com uncons grns, calc cmnt, grn sprtd, com cly mtrx, frble, est 10% pp por, nr evn wk grn pri fl, near even stain, gd fst bri grn blu cut fl, gd mod-bri grn rsd fl.

SS: (100%) tr lt tan-gry, pred drk gry brn - blk, v fn - fn grnd, dom subrnd, fr-gd srtg, pred qtz grn, com uncons grns, calc cmnt, grn sprtd, com cly mtrx, frble, est 10% pp por, nr evn wk grn pri fl, near even stain, gd fst bri grn blu cut fl, gd mod-bri grn rsd fl.

SS: (100%) tr lt tan-gry, pred drk gry brn - blk, v fn - fn grnd, dom subrnd, fr-gd srtg, pred qtz grn, com uncons grns, calc cmnt, grn sprtd, com cly mtrx, frble, est 10% pp por, nr evn wk grn pri fl, near even stain, gd fst bri grn blu cut fl, gd mod-bri grn rsd fl.

