

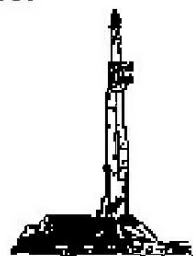
GOOLSBY BROTHERS
and associates, inc.

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: Falken 34C-9-L
API: 051234512500
Location: NE/SE Section 11 T6N R66W Weld County, CO.
License Number:
Spud Date: January 17, 2018
Surface Coordinates: 1754' FSL 276' FEL NE/SE Sec. 11 T6N R66W
Lat/Long: 40°30'01.386"N/ 104°44'09.420"W
Bottom Hole Planned: 350' FSL, 300' FEL, SEC.9 T6N R66W
Coordinates: Projected: 349' FSL, 217' FEL, SEC.9 T6N R66W
Ground Elevation (ft): 4,810'
Logged Interval (ft): 6,800' To: 19,308'
Formation: Codell
Type of Drilling Fluid: OBM (LSND Surface).

Region: Wattenberg
Drilling Completed: January 23, 2018

K.B. Elevation (ft): 4,835'
Total Depth (ft): 19,308' DMTD

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: Tom Jacaruso

GEOLOGIST

Name: Dallan Gardner & Blake Stacey
Company: Goolsby Brothers & Assoc. (GBA), Inc. (www.goolsbybrothers.com)
Address: 575 Union Blvd. Suite 208,
Lakewood CO. 80228
Tel 303-618-7736

E-logs

MWD GR from S.C. to 19,294' MD

Casing

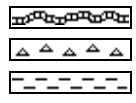
9 5/8" Surface Casing pre set @ 1,800' MD.

5 1/2" Production Liner run to 19,289' on 1/25/2018.

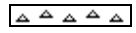
Comments

- 1) Drilling Contractor: Precision Drilling, Rig #562
Pumps 1&2: Rostell F-1600 5" x 12" (.0692 Bbls./stroke)
Toolpusher: Michael Ellingsworth, Tyson Westgard.
- 2) Company Man: Kent Priddy
Kevin Brakovec
Tim Jones
Kalib Ford
- 3) Mud Comapny : Anchor USA
Engineer: David Owen
- 4) Directional Drilling: Baker Hughes
Drillers: Jeremiah Samson, Ryan Killian, Aaron Herskind
MWD: John Bryson, Baker Remote Field Operations.
- 5) Gas Equipment: Pason Gas Analyzer (Spectrometer)
- 6) Wellsite Geologist: Blake Stacey & Dallan Gardner

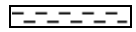
ROCK TYPES



Bent



Cht



Clyst



Oil sat.



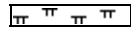
Dol



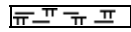
Lmst



Chalk



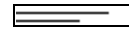
Mrlst



Mrlst_sh (intbddd)



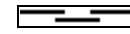
Shale



Shgy



Slty sh



Carb sh



Ss



Slst

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
 Arg
 Bent
 Dol
 Ls
 Mrst
 Sltstrg
 Ssstrg

TEXTURE

Boundst
 Chalky
 Cryxln
 Earthy
 Finexln
 Grainst
 Lithogr
 Microxln
 Mudst
 Packst
 Wackest

OTHER SYMBOLS

OIL SHOWS

Even
 Spotted
 Ques
 Dead
 Vspotty

near even

POROSITY TYPE

Earthy
 Fenest
 Fracture

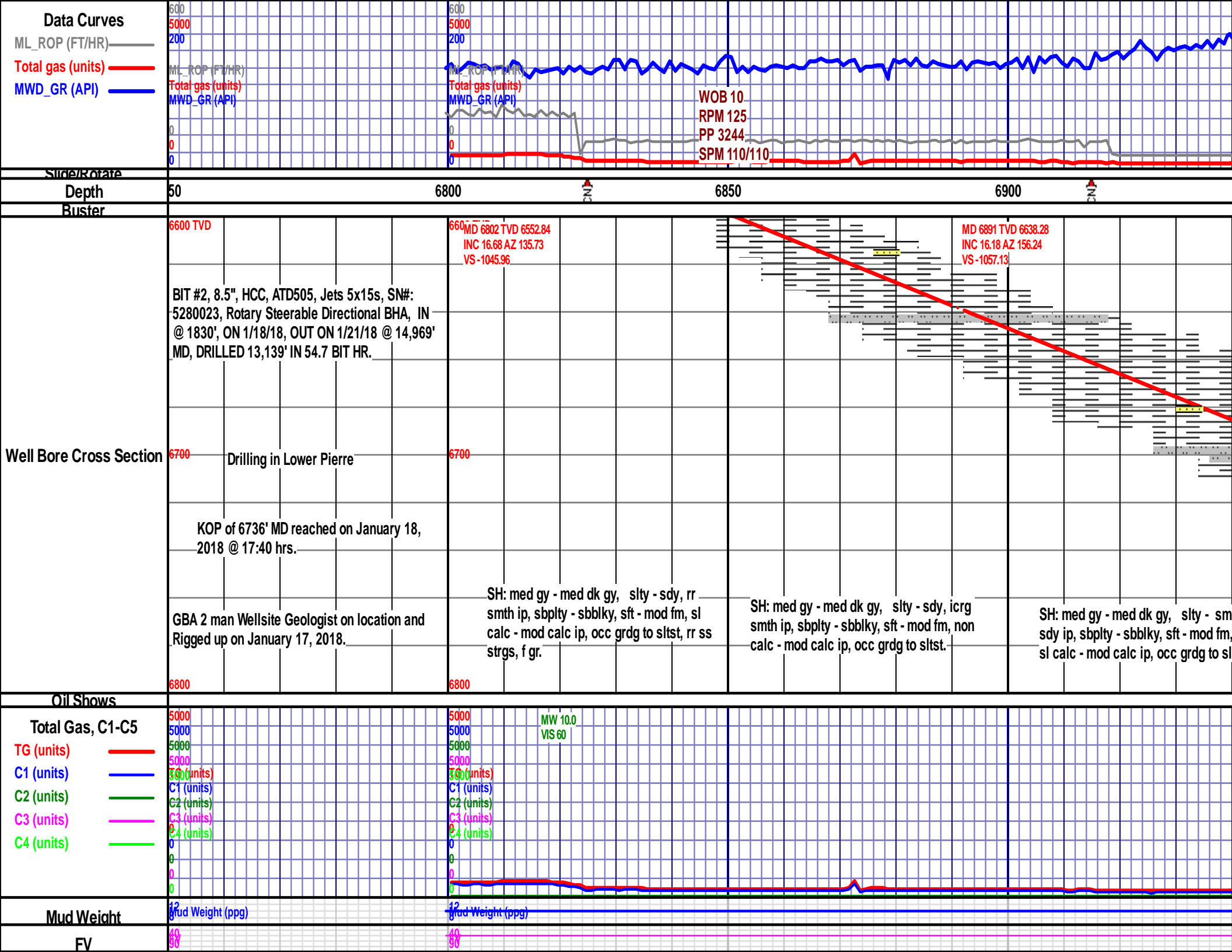
Inter
 Moldic
 Organic
 Pinpoint
 Vuggy

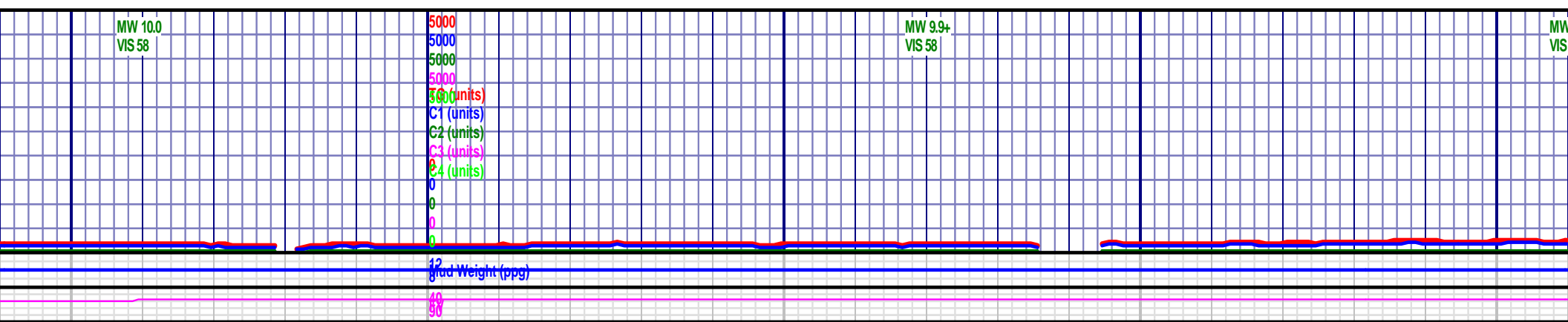
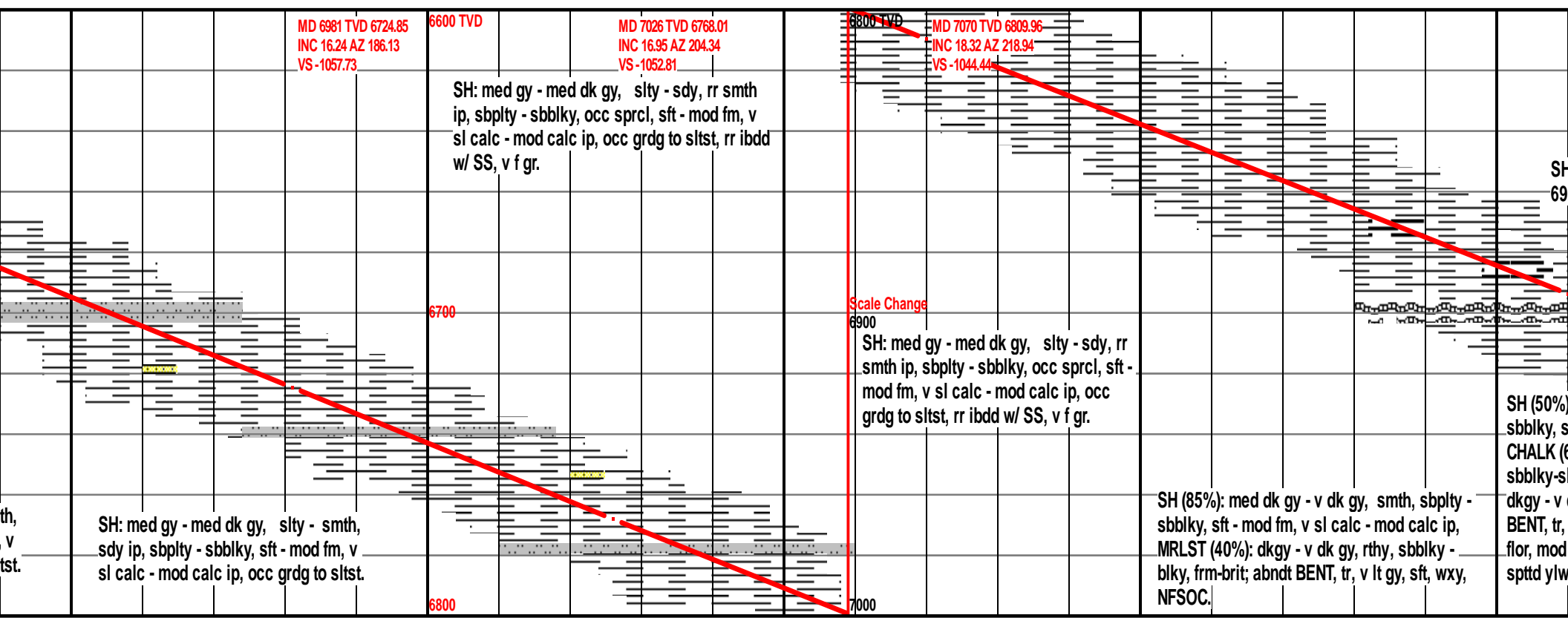
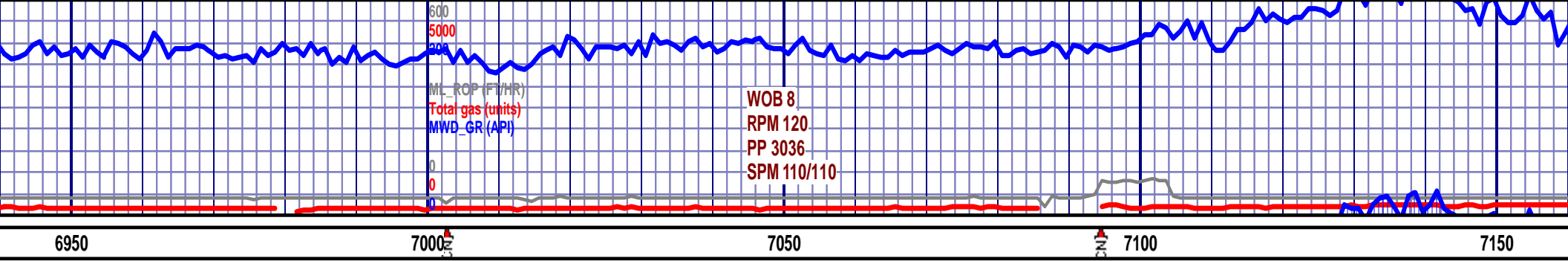
ROUNDING

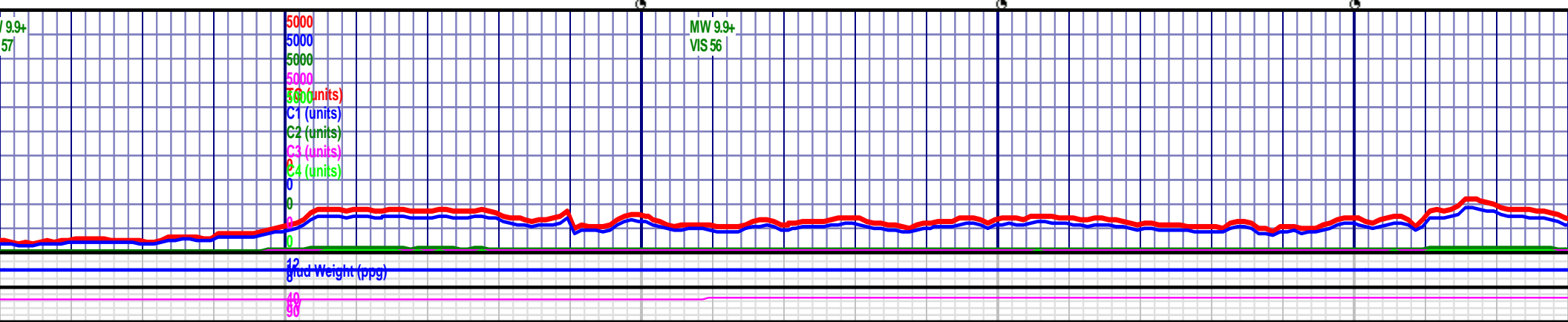
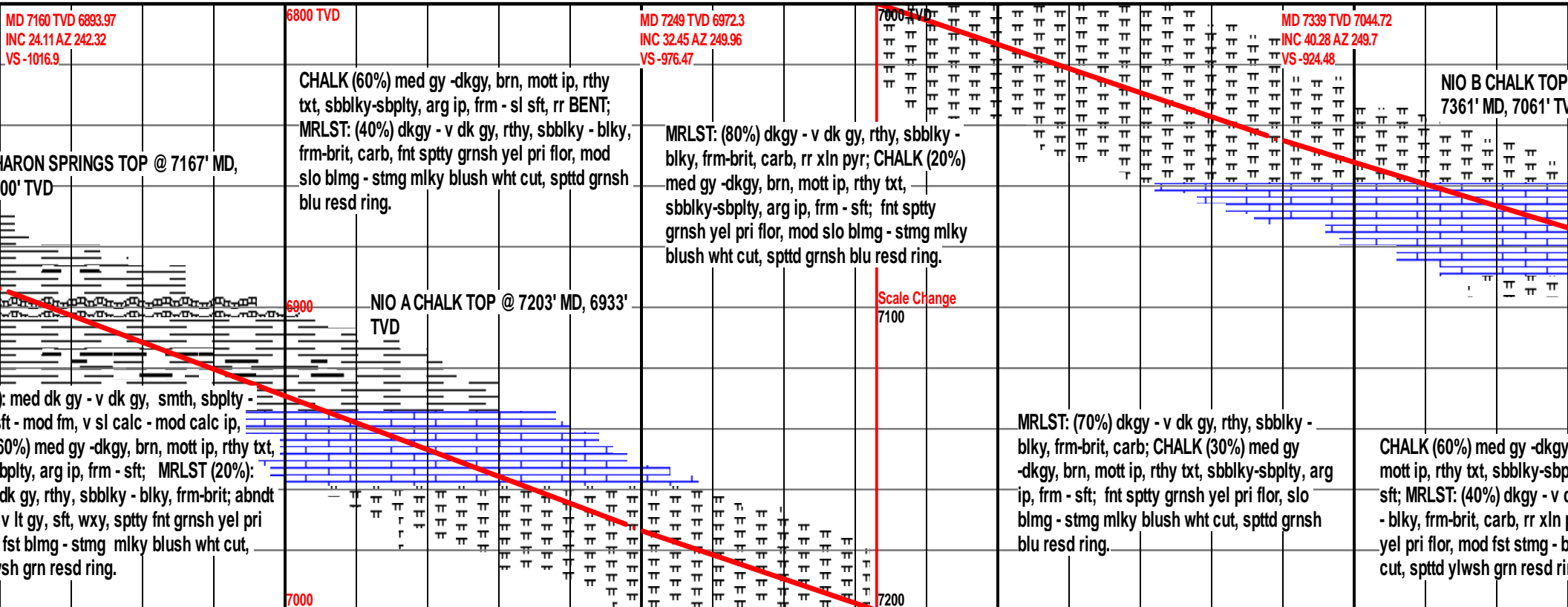
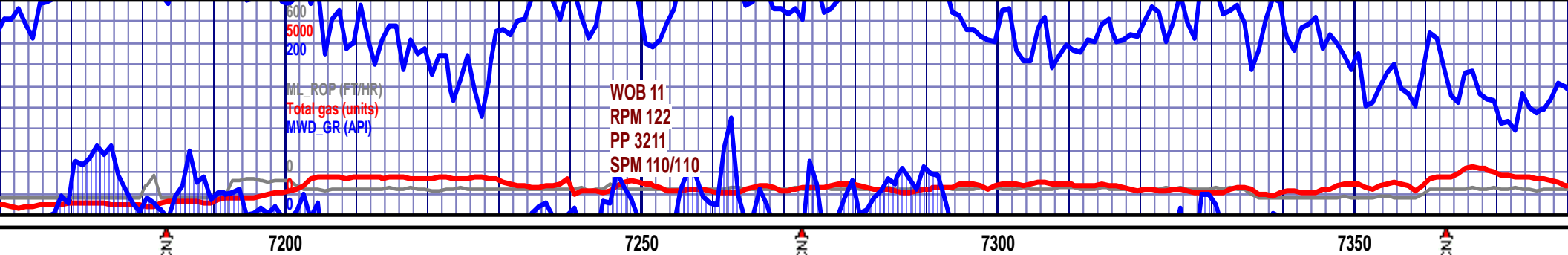
Rounded
 Subrnd
 Subang
 Angular

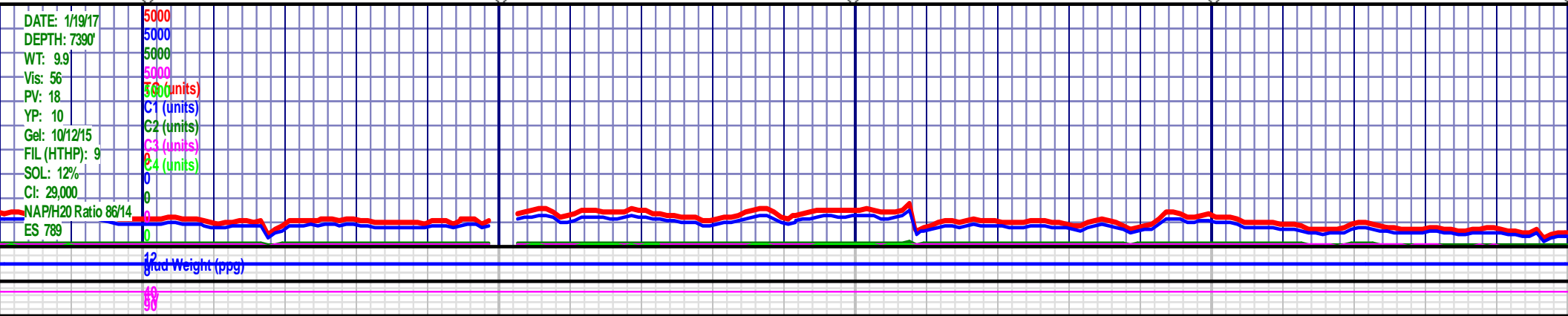
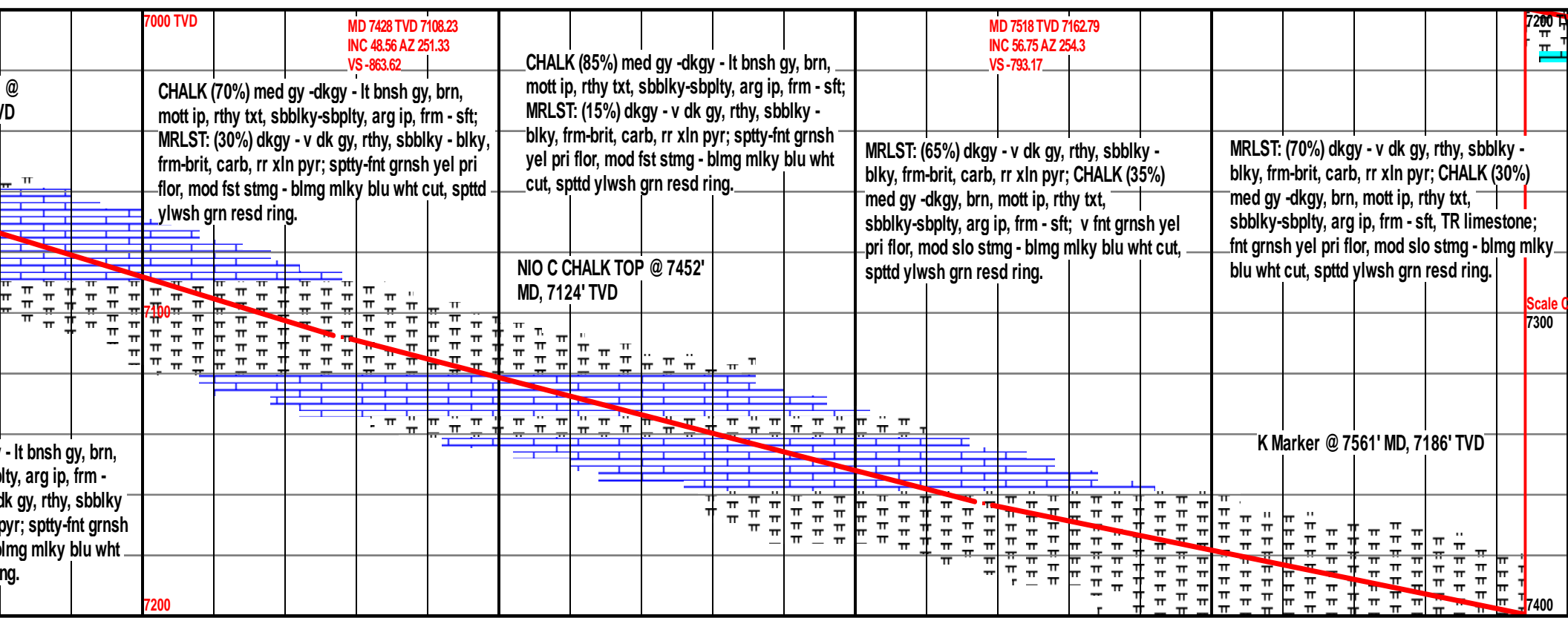
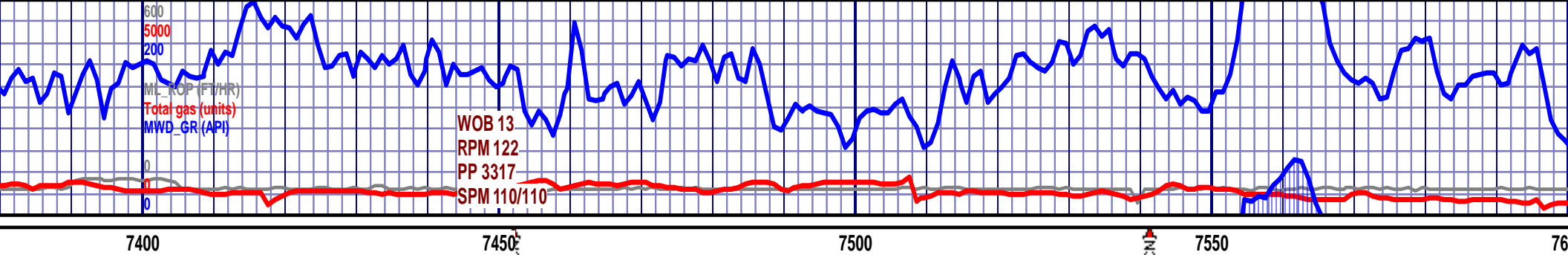
SORTING

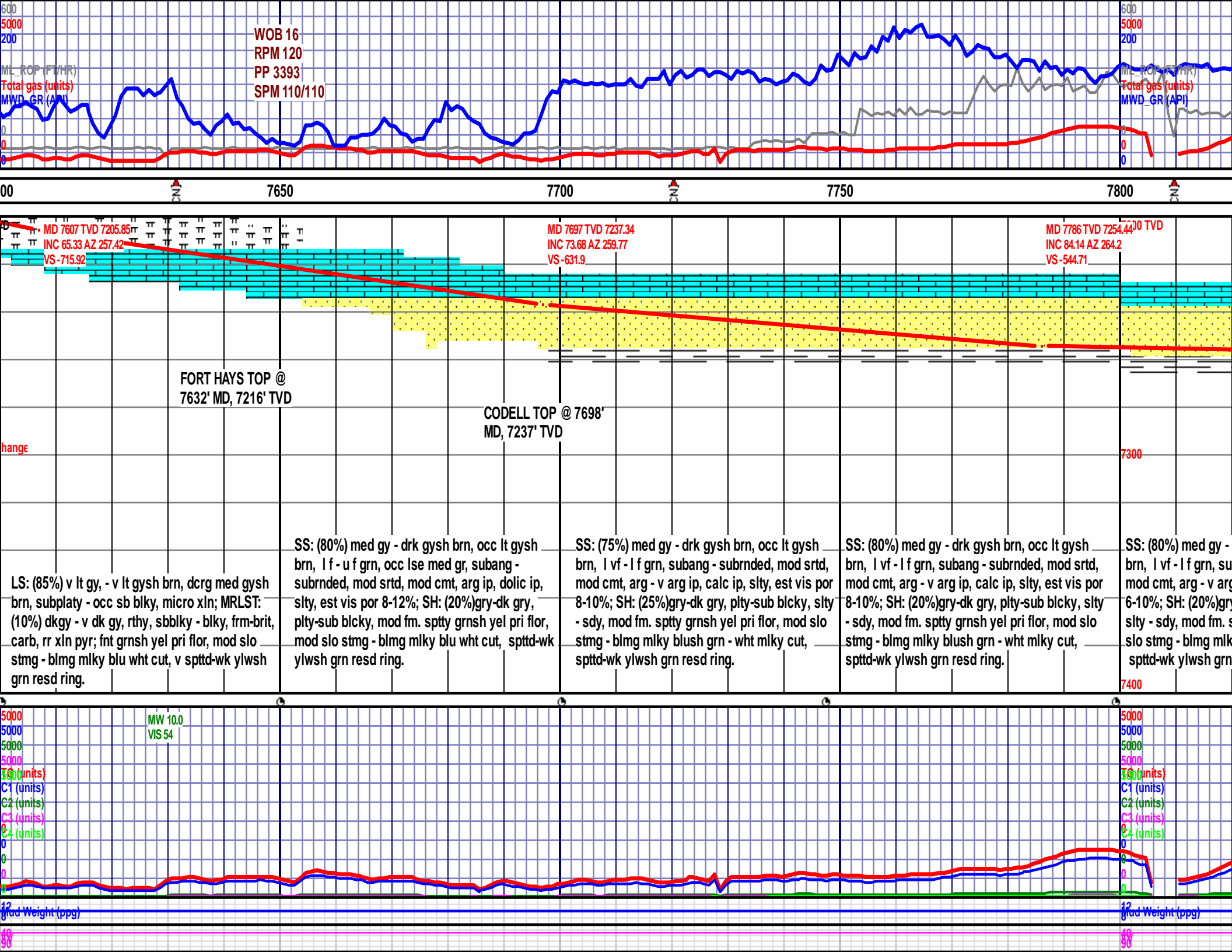
Well
 Moderate
 Poor

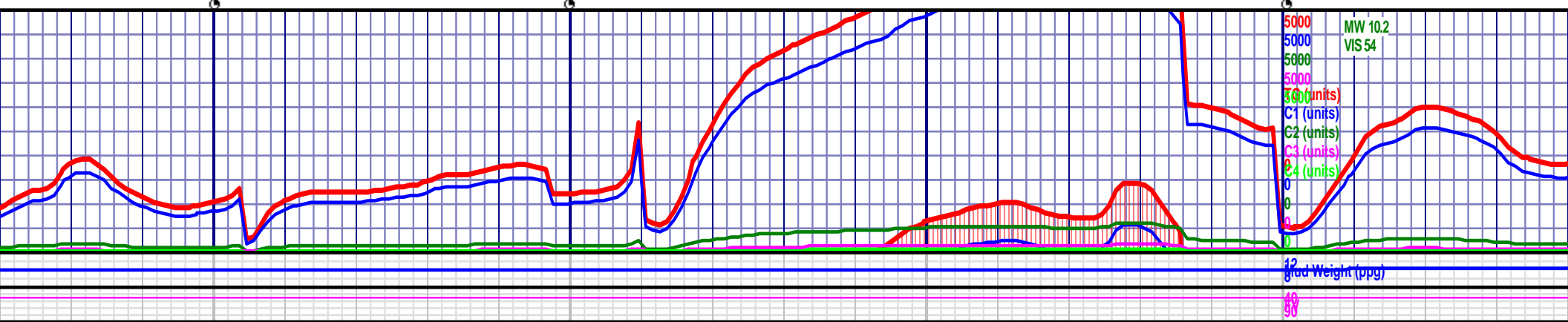
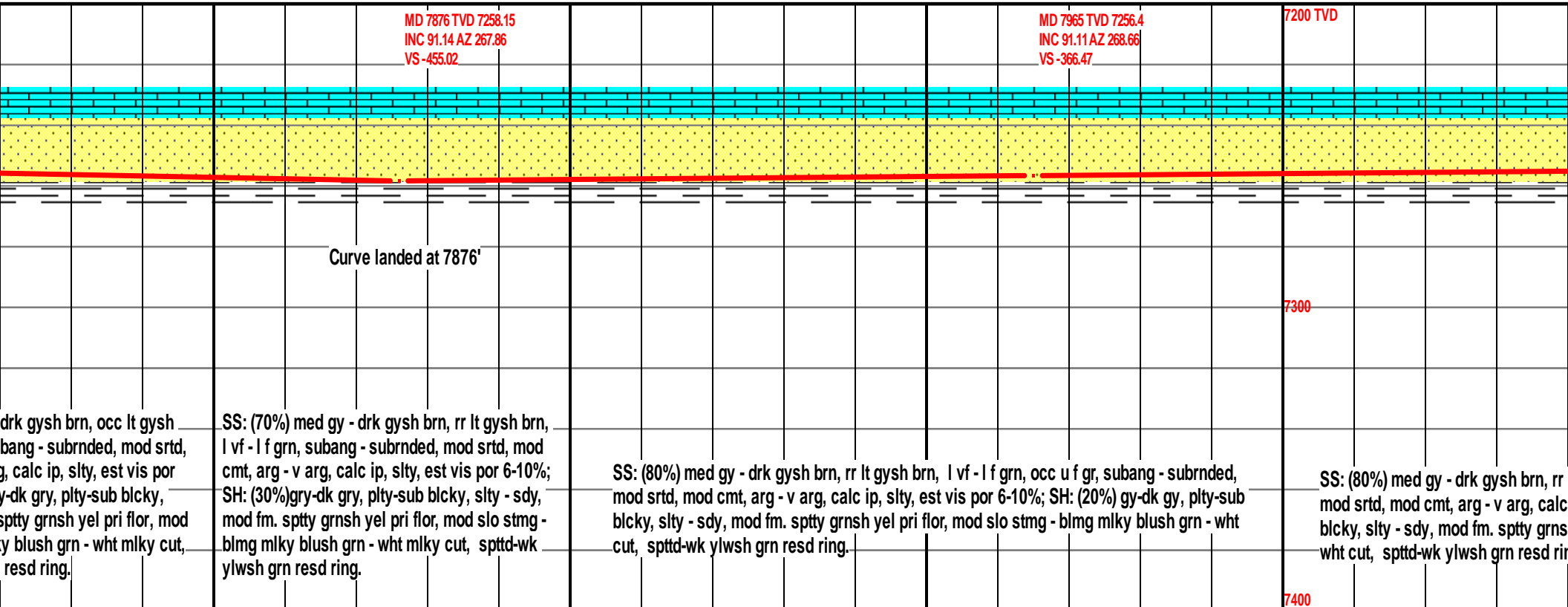
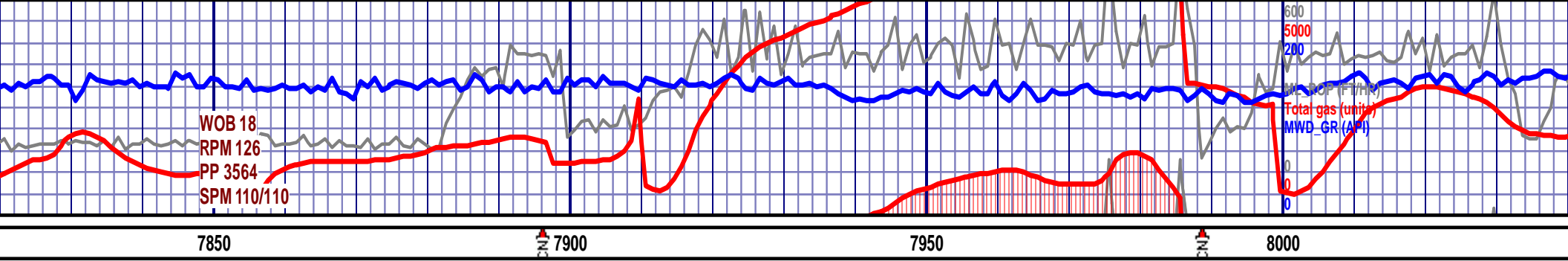


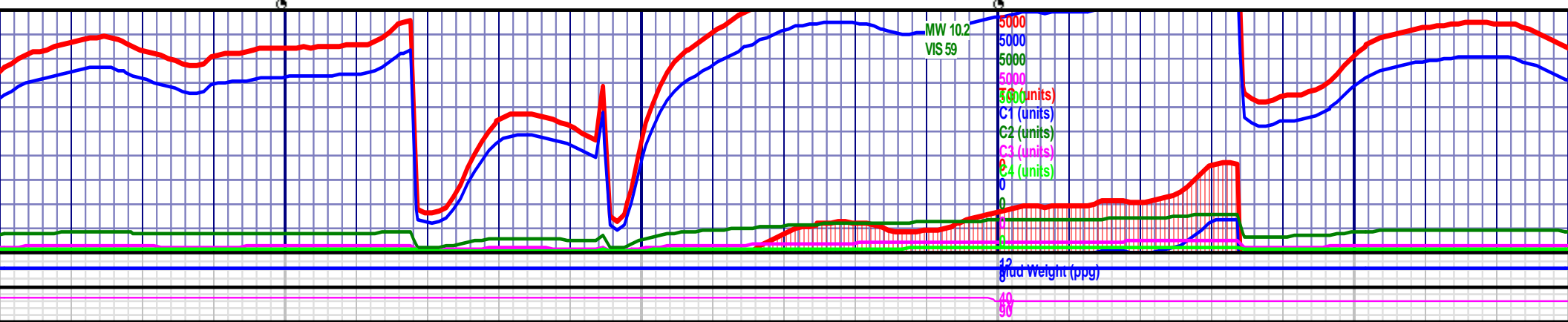
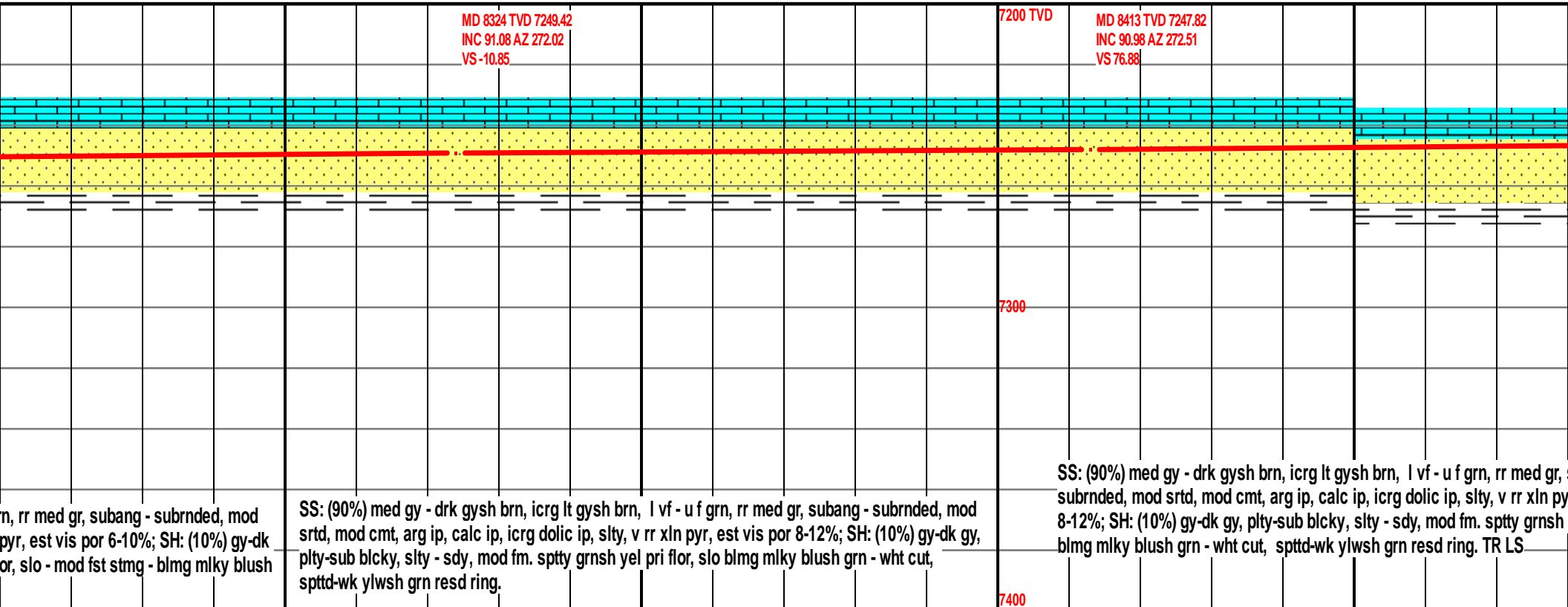
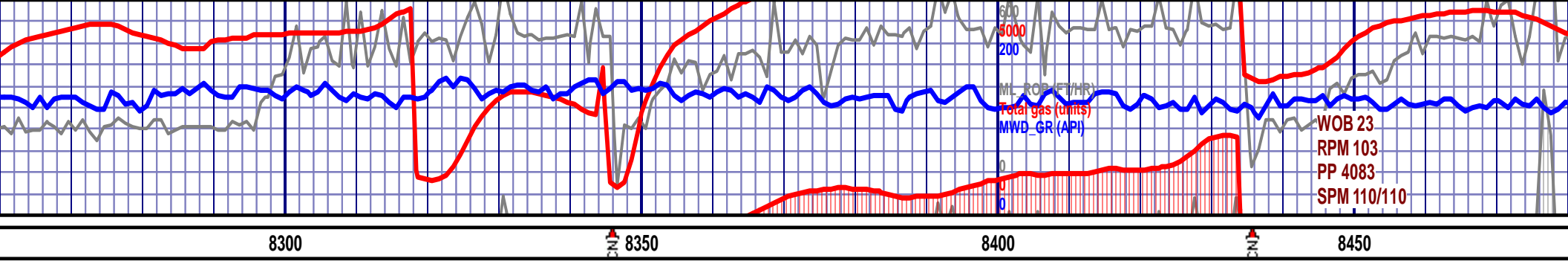


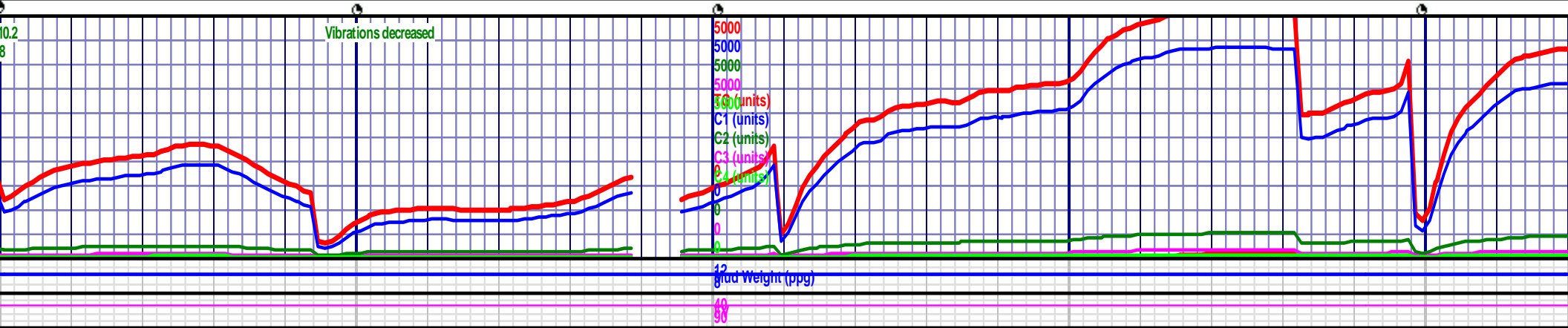
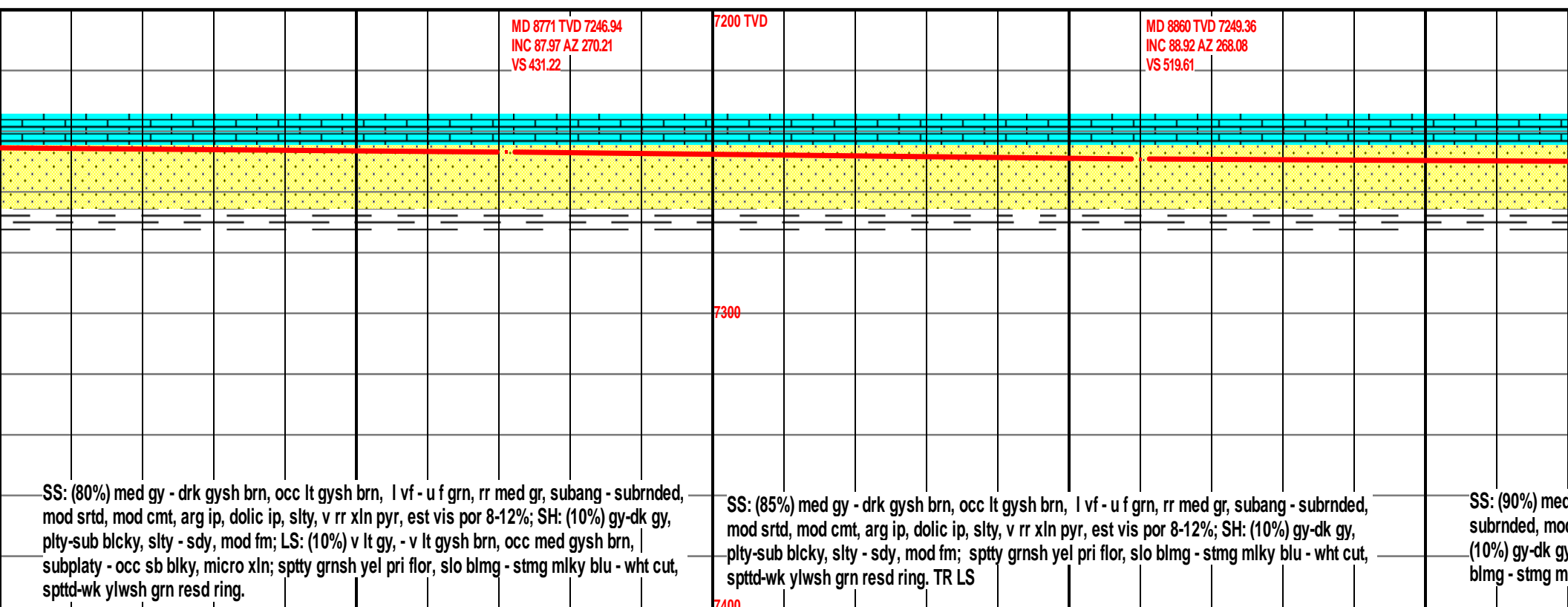
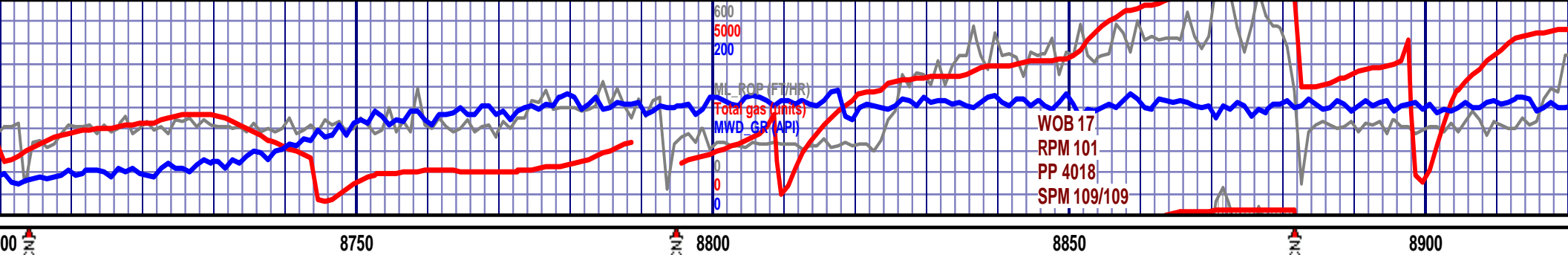


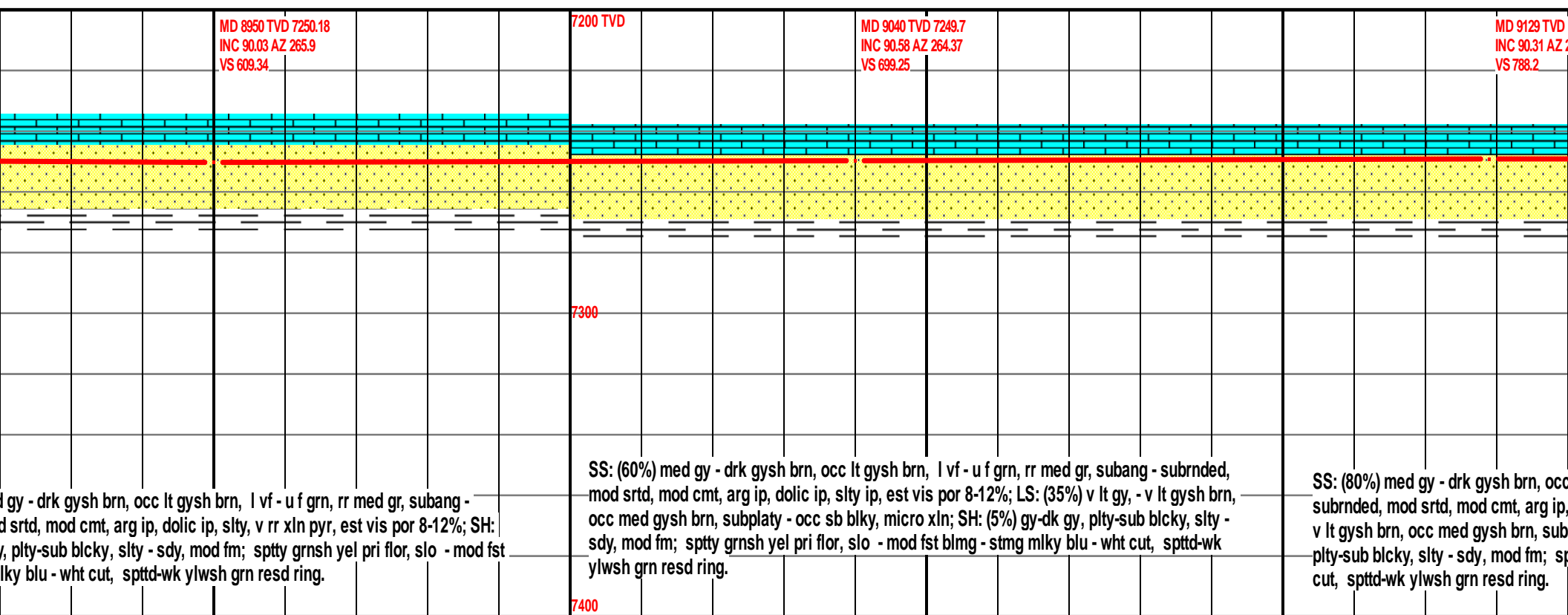


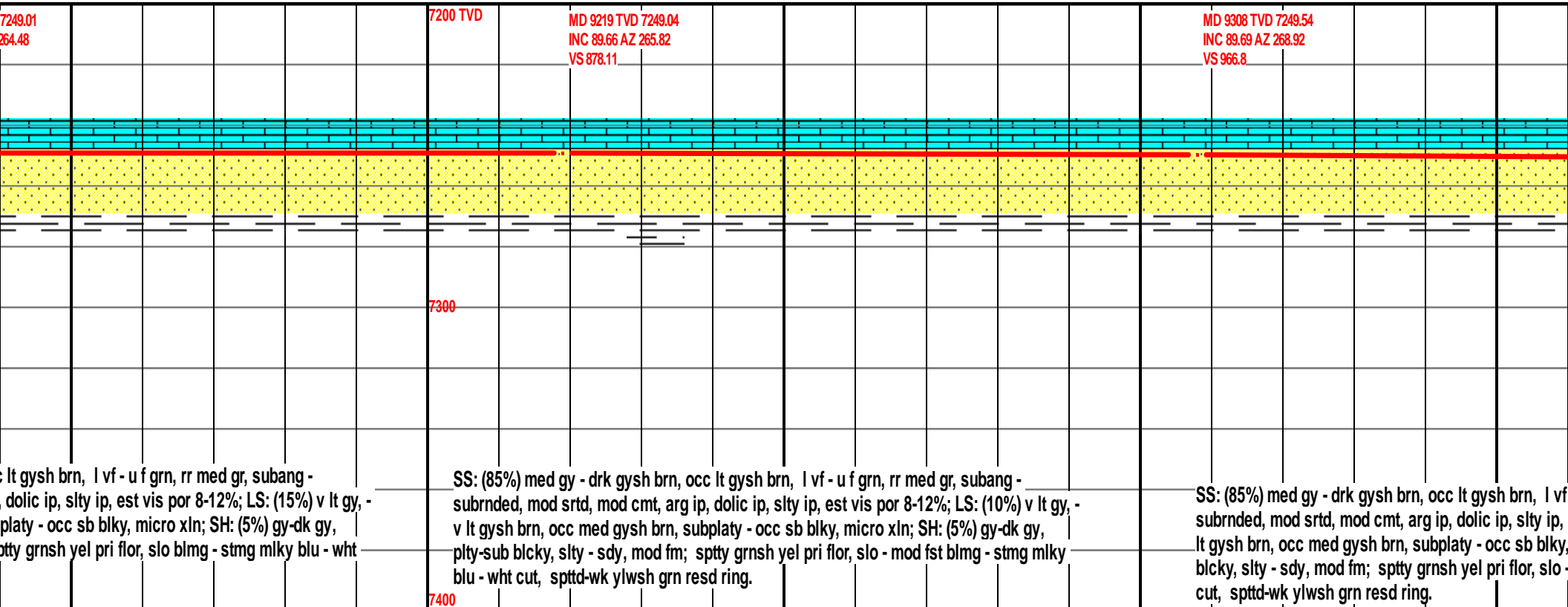
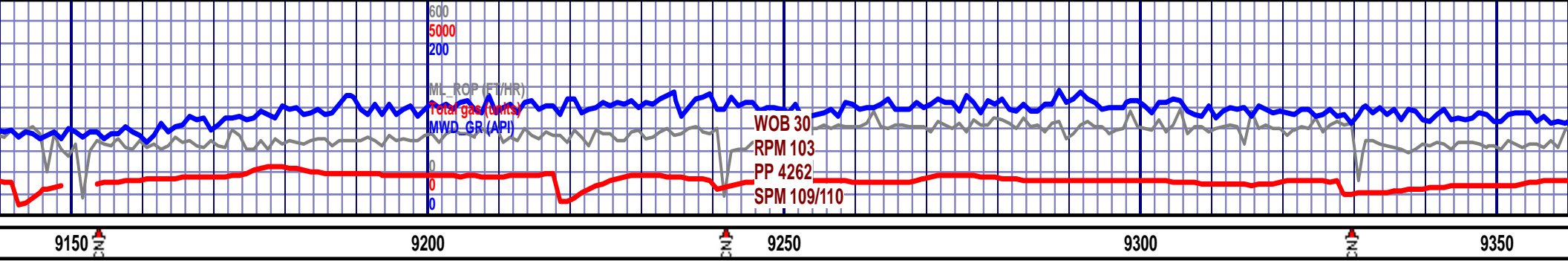








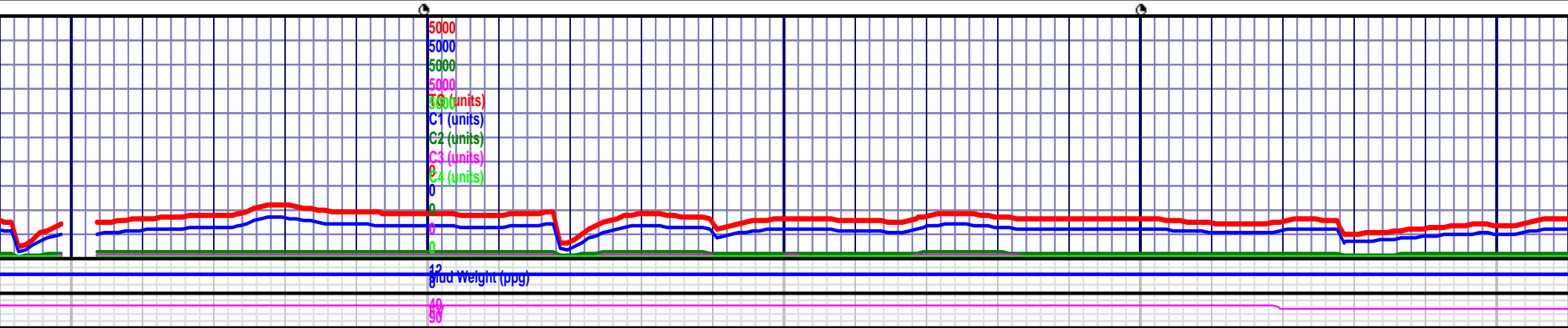


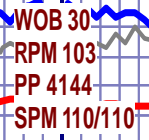


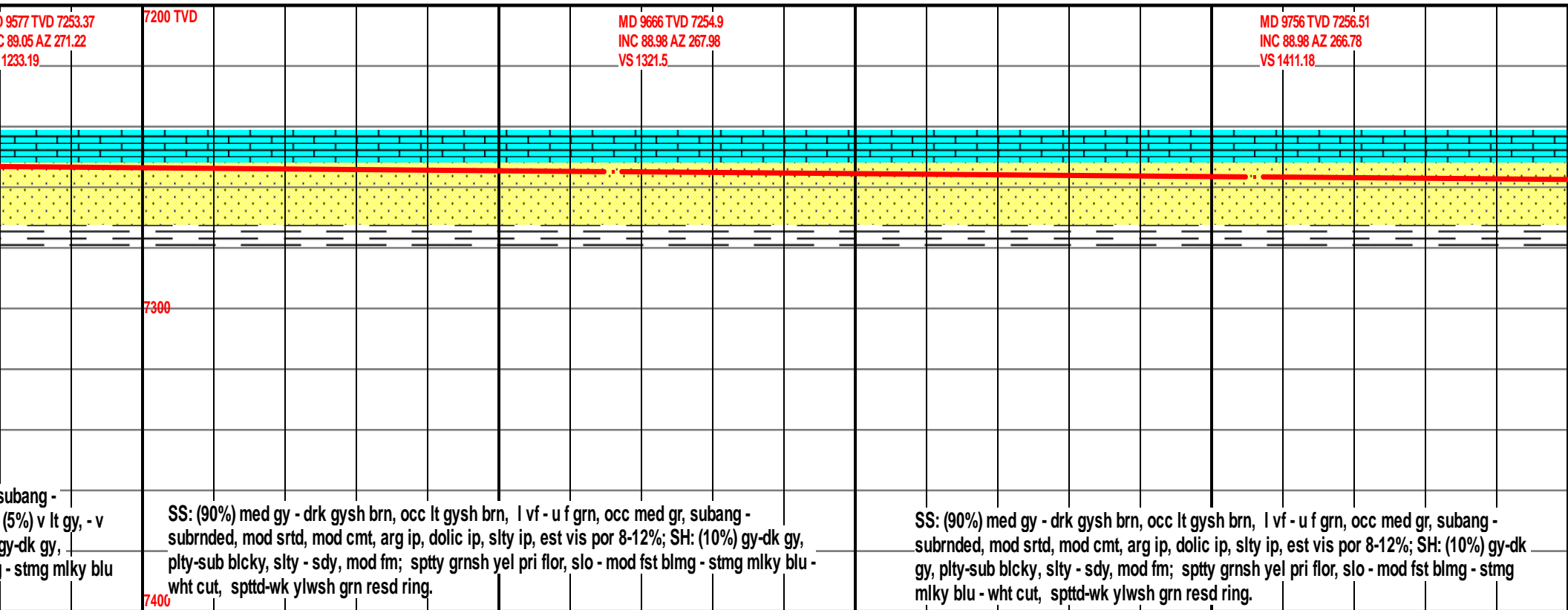
lt gysh brn, l vf - u f grn, rr med gr, subang -
dolic ip, slty ip, est vis por 8-12%; LS: (15%) v lt gy, -
platy - occ sb blk, micro xln; SH: (5%) gy-dk gy,
spty grnsh yel pri flor, slo blmg - stmg mlky blu - wht

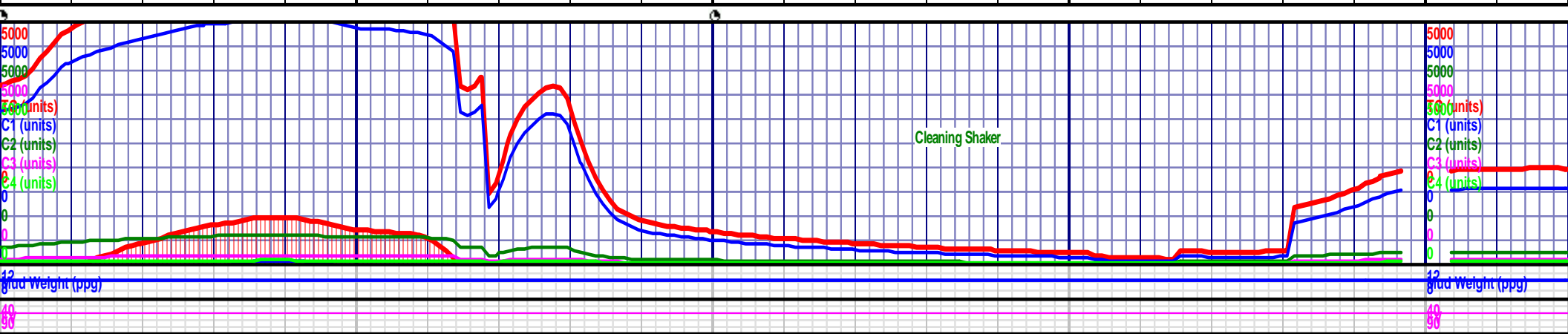
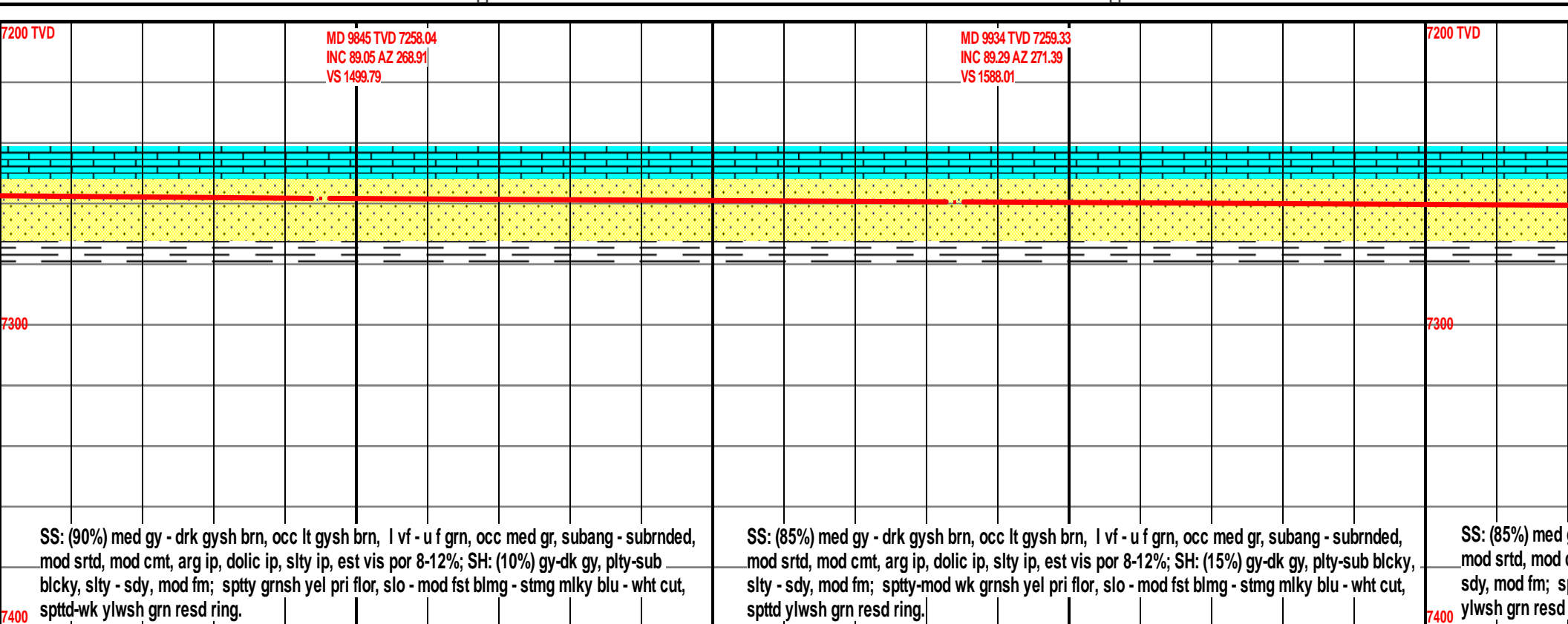
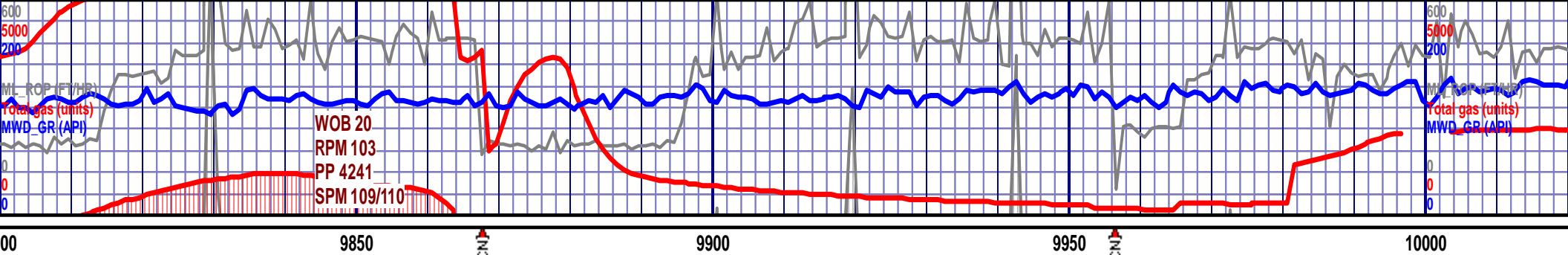
SS: (85%) med gy - drk gysh brn, occ lt gysh brn, l vf - u f grn, rr med gr, subang -
subrdded, mod srtd, mod cmt, arg ip, dolic ip, slty ip, est vis por 8-12%; LS: (10%) v lt gy, -
v lt gysh brn, occ med gysh brn, subplaty - occ sb blk, micro xln; SH: (5%) gy-dk gy,
plty-sub blk, slty - sdy, mod fm; spty grnsh yel pri flor, slo - mod fst blmg - stmg mlky
blu - wht cut, spttd-wk ylwsh grn resd ring.

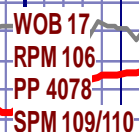
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subrdded, mod srtd, mod cmt, arg ip, dolic ip, slty ip,
lt gysh brn, occ med gysh brn, subplaty - occ sb blk,
blk, slty - sdy, mod fm; spty grnsh yel pri flor, slo -
cut, spttd-wk ylwsh grn resd ring.









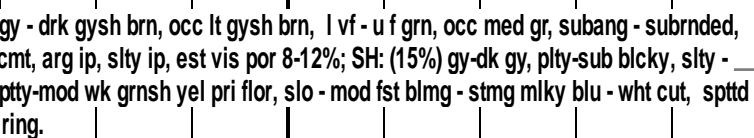


Total gas (units)
MWD GR (API)

MD 10024 TVD 7260.47
INC 89.26 AZ 273.72
VS 1676.65

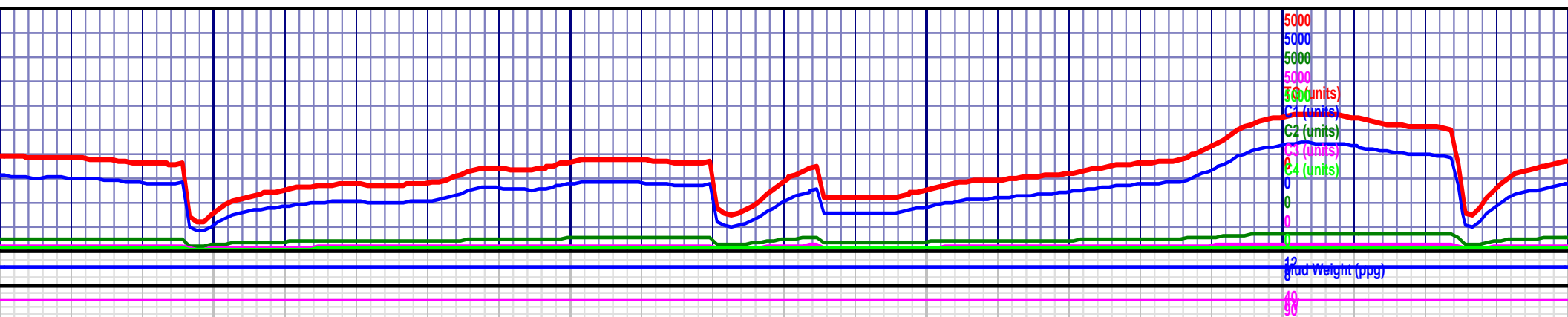
MD 10113 TVD 7261.68
INC 89.17 AZ 274.69
VS 1763.83

7200 MD 10203 TVD 7262.94
INC 89.23 AZ 273.8
VS 1851.98



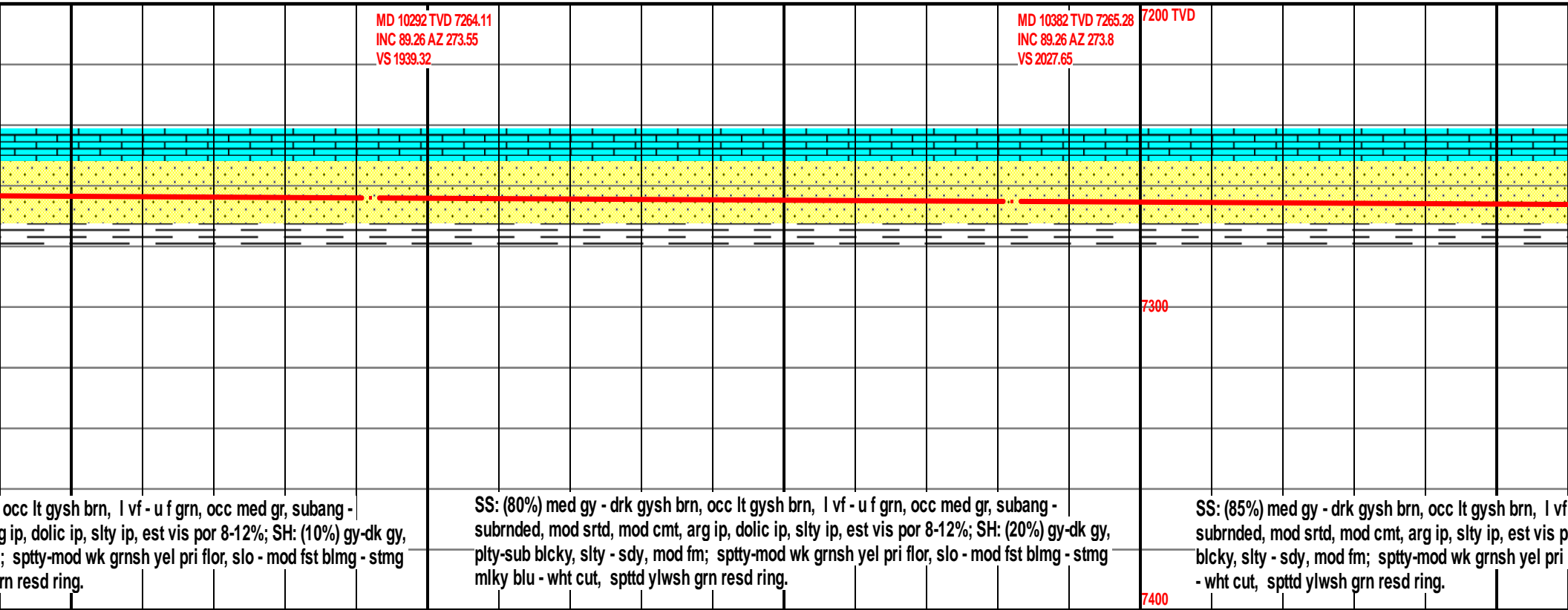
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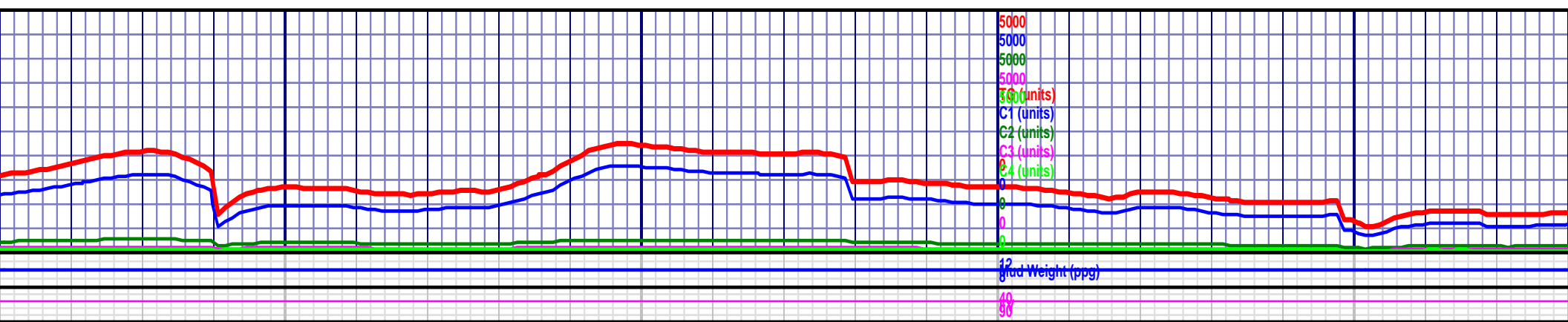
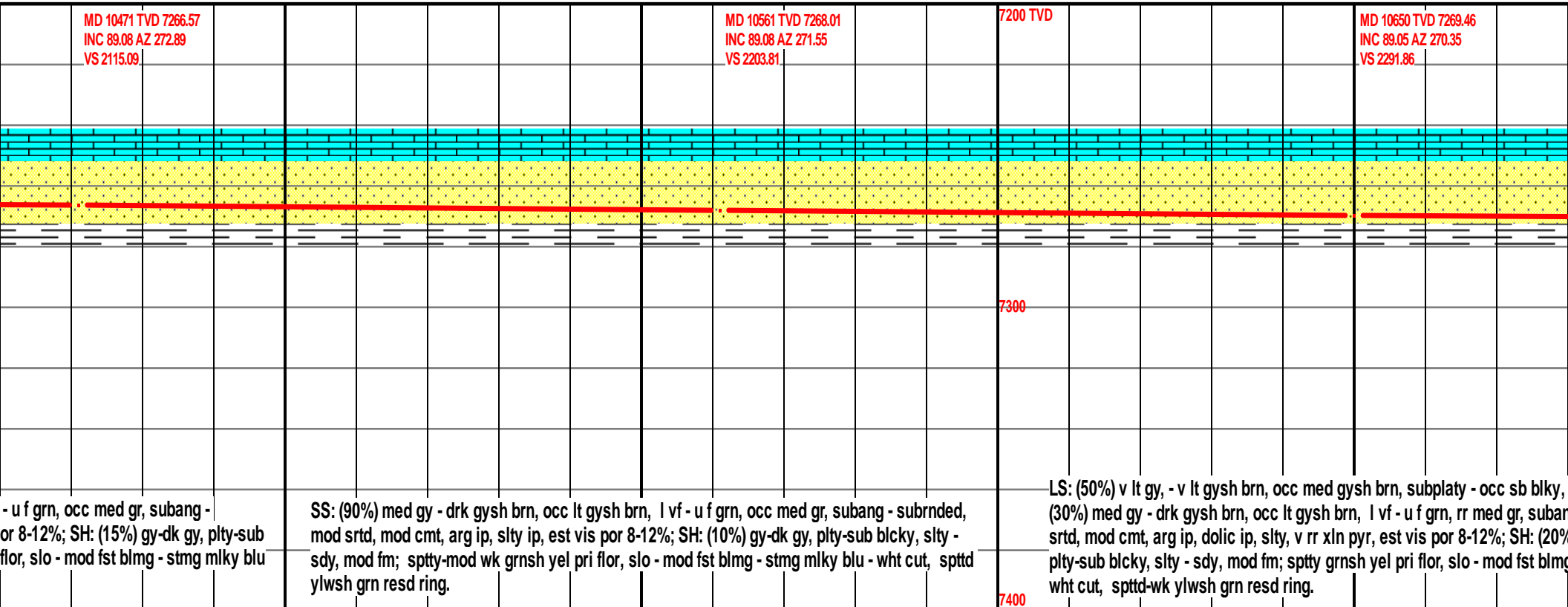
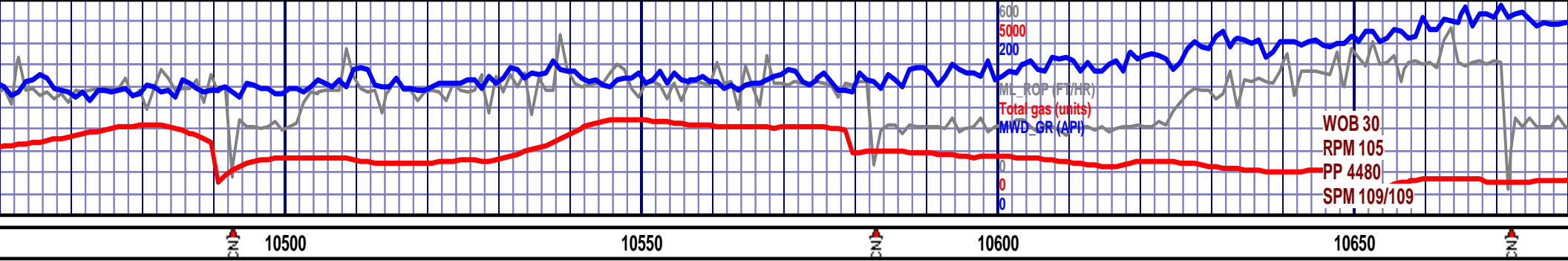
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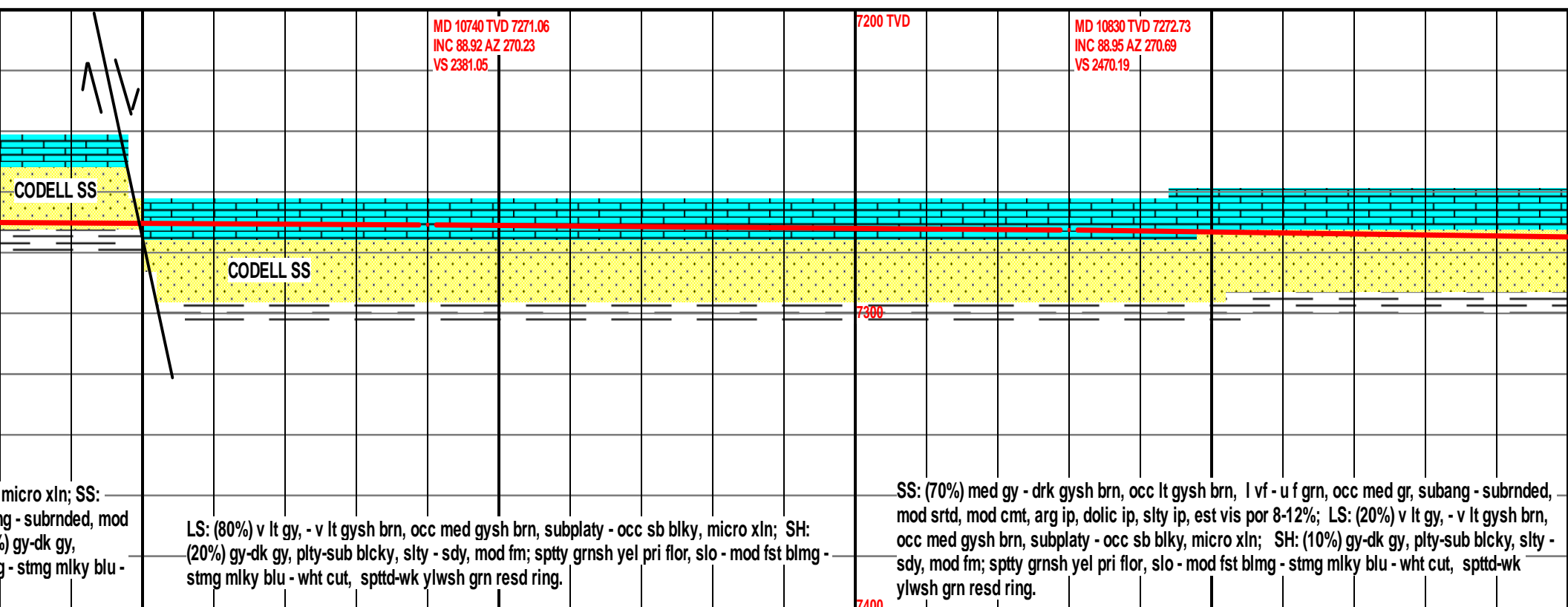


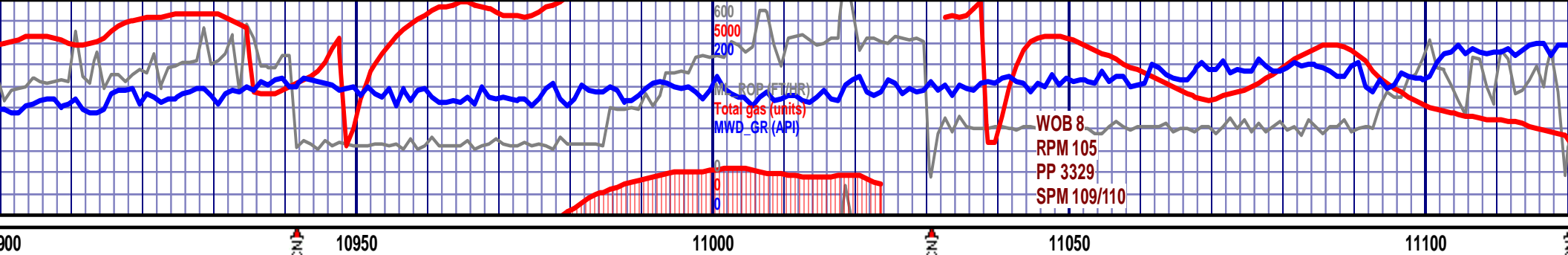
~~12~~
~~fluid weight (ppg)~~

489





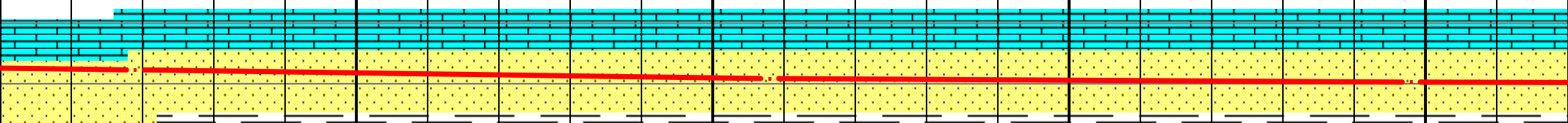




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INC 87.26 AZ 270.78
VS 2558.25

7200 TVD MD 11008 TVD 7278.47
INC 89.14 AZ 270.33
VS 2646.35

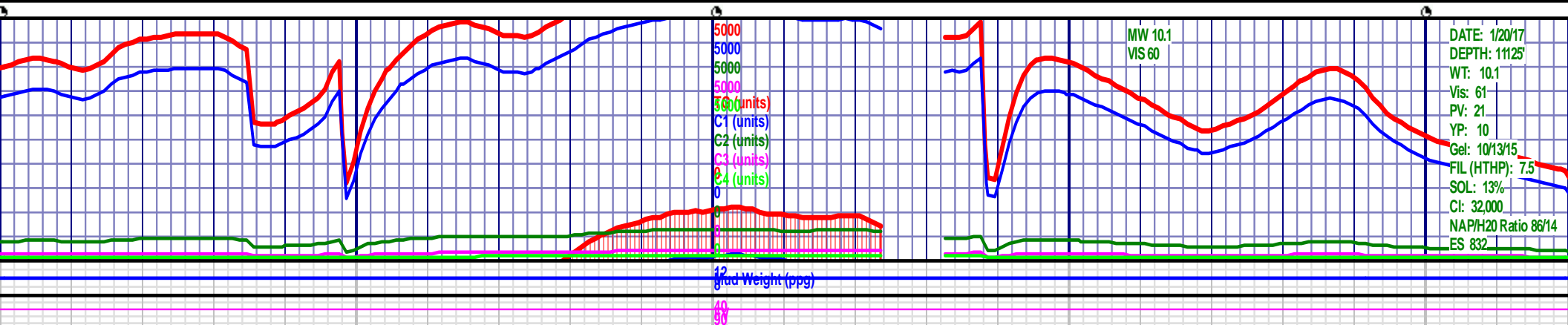
MD 11098 TVD 7279.39
INC 89.69 AZ 270.92
VS 2735.47

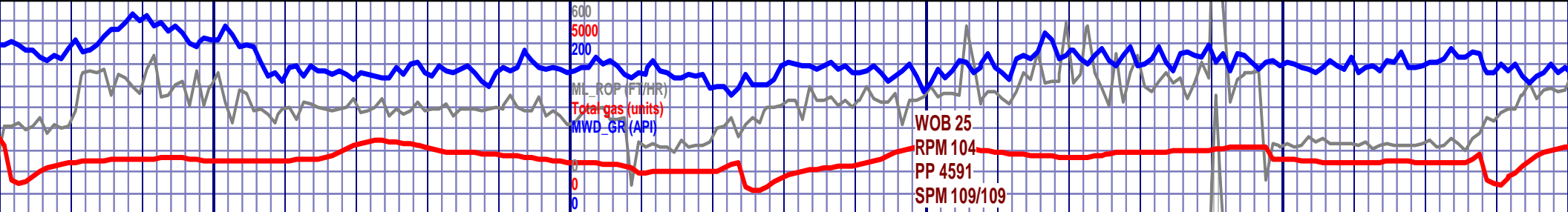


SS: (80%) med gy - drk gysh brn, occ lt gysh brn, l vf - u f grn, occ med gr, subang - subrnded, mod srted, mod cmt, arg ip, dolc ip, slty ip, est vis por 8-12%; SH: (10%) gy-dk gy, plty-sub blkky, slty - sdy, mod fm; LS: (10%) v lt gy, - v lt gysh brn, occ med gysh brn, subplaty - occ sb blkky, micro xln; sptty grnsh yel pri flor, slo - mod fst blmg - stmg mlky blu - wht cut, spttd-wk ylwsh grn resd ring.

SS: (80%) med gy - drk gysh brn, occ lt gysh brn, l vf - u f grn, occ med gr, subang - subrnded, mod srted, mod cmt, arg ip, dolc ip, slty ip, est vis por 8-12%; SH: (10%) gy-dk gy, plty-sub blkky, slty - sdy, mod fm; LS: (10%) v lt gy, - v lt gysh brn, occ med gysh brn, subplaty - occ sb blkky, micro xln; sptty grnsh yel pri flor, slo - mod fst blmg - stmg mlky blu - wht cut, spttd ylwsh grn resd ring.

SS: (85%) med mod srted, mod blkky, slty - sdy blkky, micro xln ylwsh grn resd





11150

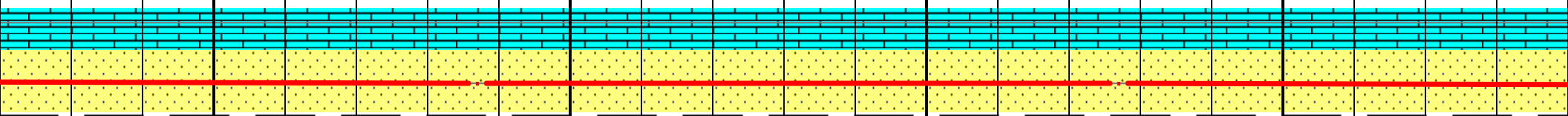
11200

11250

11300

MD 11187 TVD 7279.82 TVD
INC 89.75 AZ 269.98
VS 2823.64

MD 11277 TVD 7280.19
INC 89.78 AZ 268.99
VS 2913



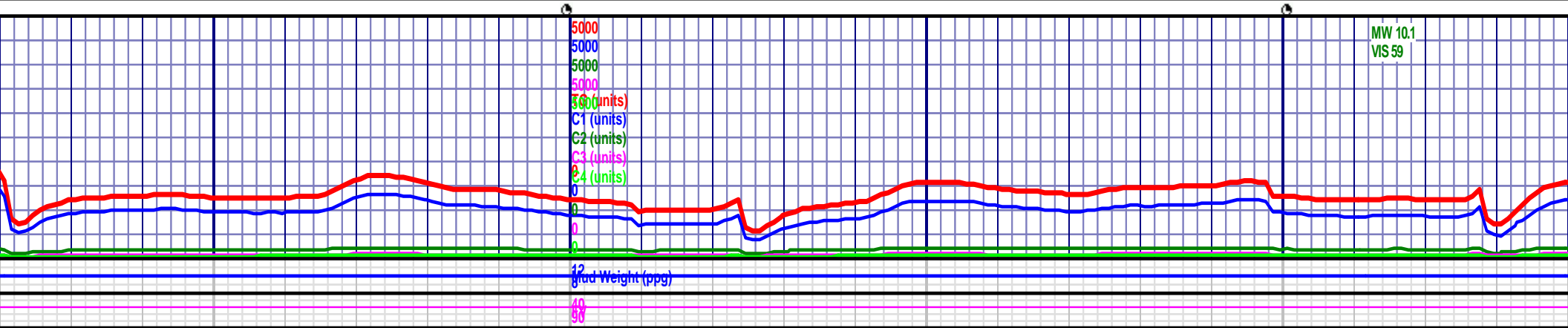
7300

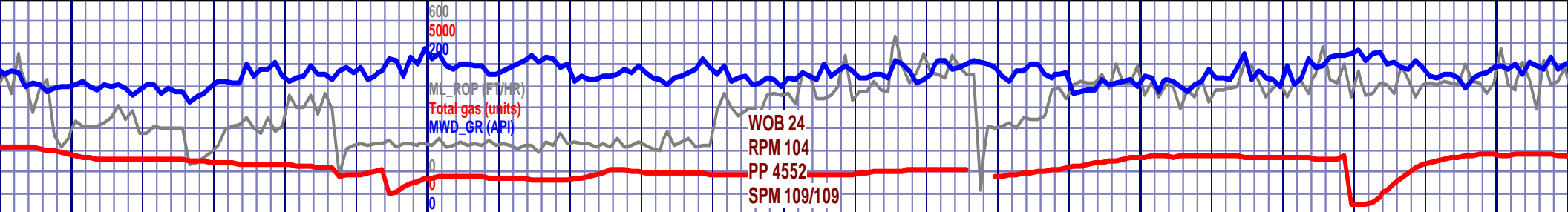
gy - drk gysh brn, occ lt gysh brn, l vf - u f grn, occ med gr, subang - subrnded, cmt, arg ip, dolc ip, slty ip, est vis por 8-12%; SH: (10%) gy-dk gy, plty-sub y, mod fm; LS: (5%) v lt gy, - v lt gysh brn, occ med gysh brn, subplaty - occ sb ; sppty grnsh yel pri flor, slo - mod fst blmg - stmg mlky blu - wht cut, spttd ring.

SS: (90%) med gy - drk gysh brn, occ lt gysh brn, l vf - u f grn, occ med gr, subang - subrnded, mod srtd, mod cmt, arg ip, dolc ip, slty ip, est vis por 8-12%; SH: (10%) gy-dk gy, plty-sub blkky, slty - sdy, mod fm; sppty grnsh yel pri flor, slo - mod fst blmg - stmg mlky blu - wht cut, spttd- sl evn ylwsh grn resd ring.

SS: (90%) med gy - drk gysh brn, occ lt gysh brn, l vf - u f grn, occ med gr, subang - subrnded, mod srtd, mod cmt, arg ip, dolc ip, slty ip, est vis por 8-12%; SH: (10%) gy-dk gy, plty-sub blkky, slty - sdy, mod fm; sppty grnsh yel pri flor, slo - mod fst blmg - stmg mlky blu - wht cut, spttd- sl evn ylwsh grn resd ring.

7400





11350

11400

11450

11500

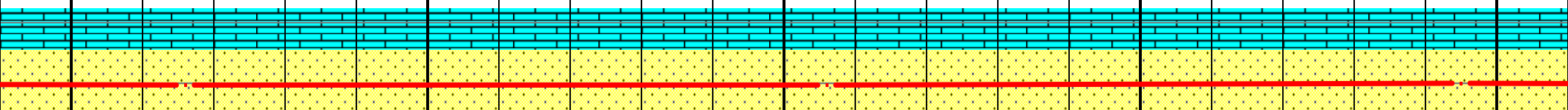
11550

MD 11366 TVD 7280.43
INC 89.91 AZ 268.18
VS 3001.52

7200 TVD

MD 11456 TVD 7280.43
INC 90.09 AZ 268.2
VS 3091.09

MD 11545 TVD 7280.43
INC 90.12 AZ 270.45
VS 3179.48



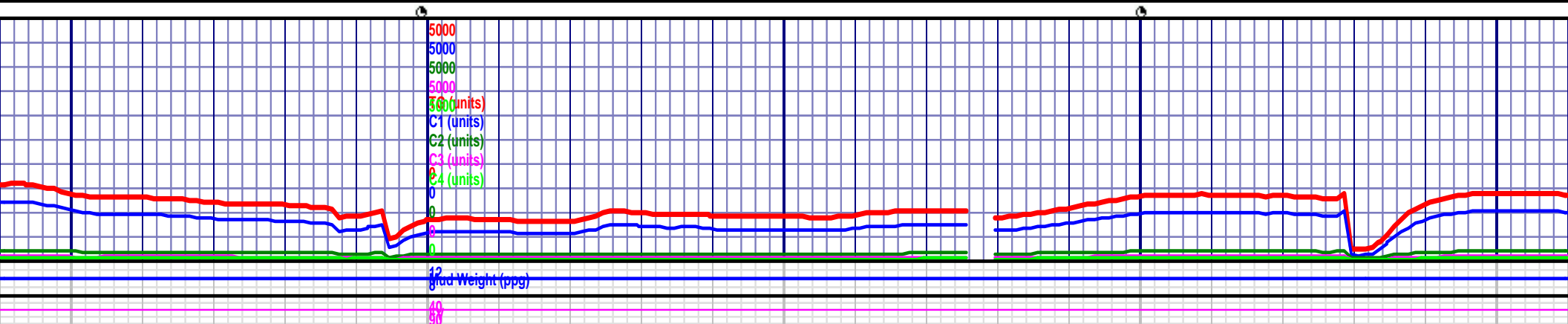
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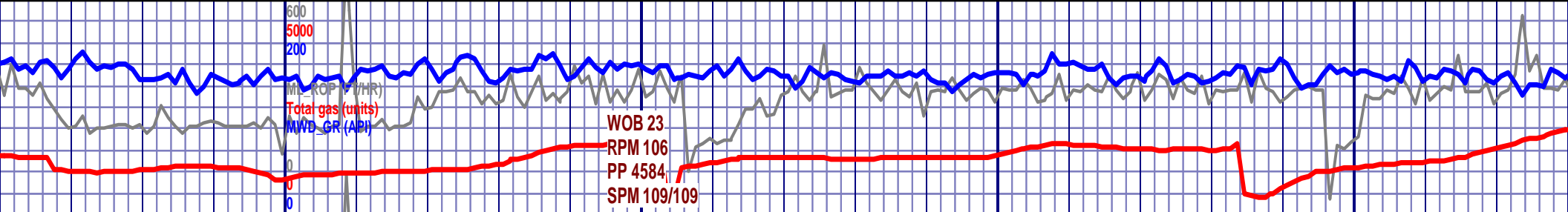
occ lt gysh brn, l vf - u f grn, occ med gr, subang -
p, calc ip, sl dolc ip, slty ip, est vis por 8-12%; SH: (10%)
mod fm; sptty grnsh yel pri flor, slo - mod fst blmg - stmg
wsh grn resd ring.

SS: (90%) med gy - drk gysh brn, occ lt gysh brn, l vf - u f grn, occ med gr, subang - subrnded,
mod srted, mod cmt, arg ip, calc ip, sl dolc ip, slty ip, est vis por 8-12%; SH: (10%) gy-dk gy,
plty-sub blkky, slty - sdy, mod fm; sptty grnsh yel pri flor, slo - mod fst blmg - stmg mlky blu -
wht cut, spttd- sl evn ylwsh grn resd ring.

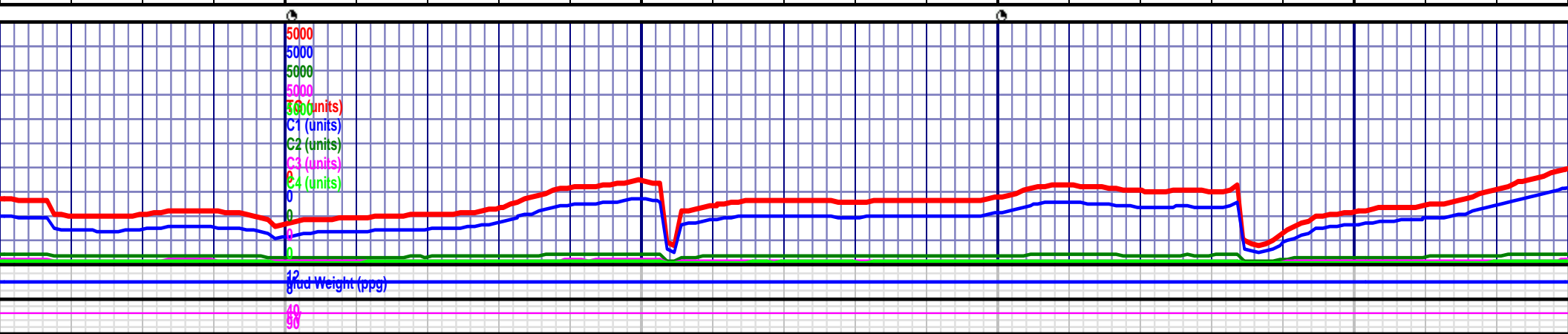
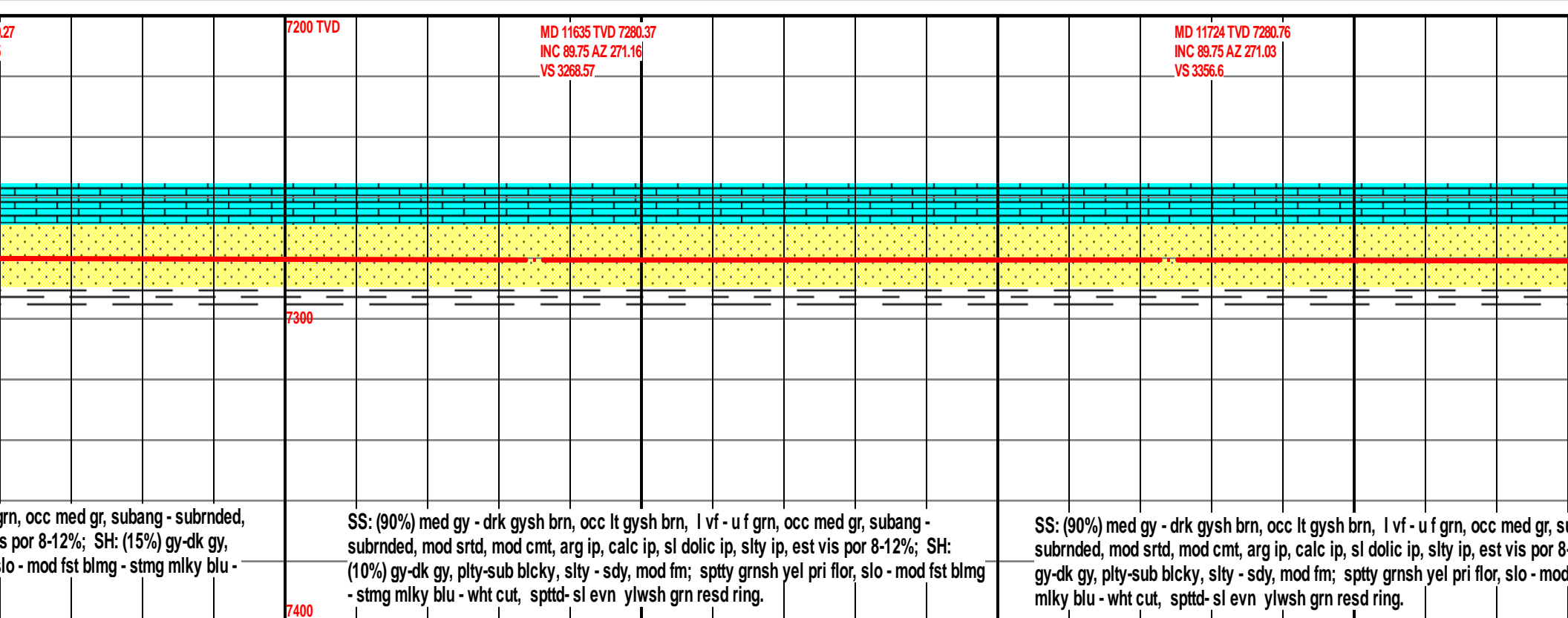
SS: (85%) med gy - drk gysh brn, occ lt gysh brn, l vf - u f g
mod srted, mod cmt, arg ip, calc ip, sl dolc ip, slty ip, est vi
plty-sub blkky, slty - sdy, mod fm; sptty grnsh yel pri flor, s
wht cut, spttd- sl evn ylwsh grn resd ring.

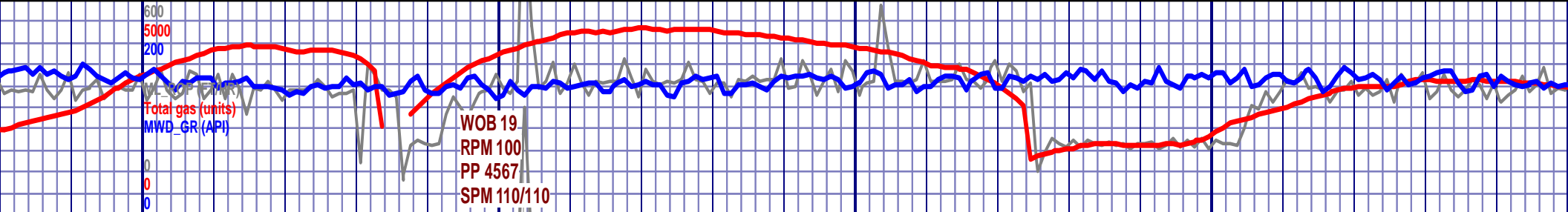
7400





11600 11650 11700 11750





11800

11850

11900

11950

12000

7200 TVD

MD 11814 TVD 7281.15
INC 89.75 AZ 270.23
VS 3445.72

MD 11903 TVD 7281.54
INC 89.75 AZ 269.49
VS 3534.01

MD 11993 TVD 7281.54
INC 89.75 AZ 269.49
VS 3534.01

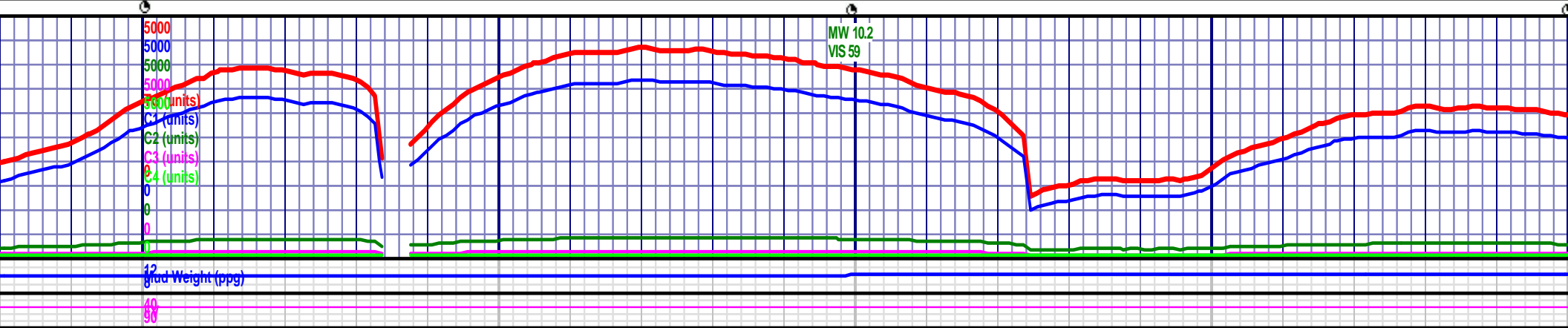
7300

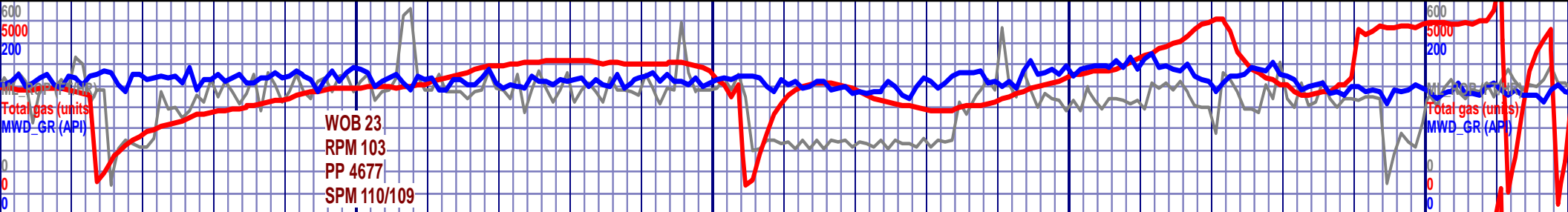
Subang -
-12%; SH: (10%)
fst blmg - stmg

SS: (90%) med gy - drk gysh brn, occ lt gysh brn, l vf - u f grn, occ med gr, subang - subrnded, mod srtd, mod cmt, arg ip, calc ip, sl dolic ip, slty ip, est vis por 8-12%; SH: (10%) gy-dk gy, plty-sub bckly, slty - sdy, mod fm; sptty grnsh yel pri flor, slo - mod fst blmg - stmg milky blu - wht cut, spttd- sl evn ylwsh grn resd ring.

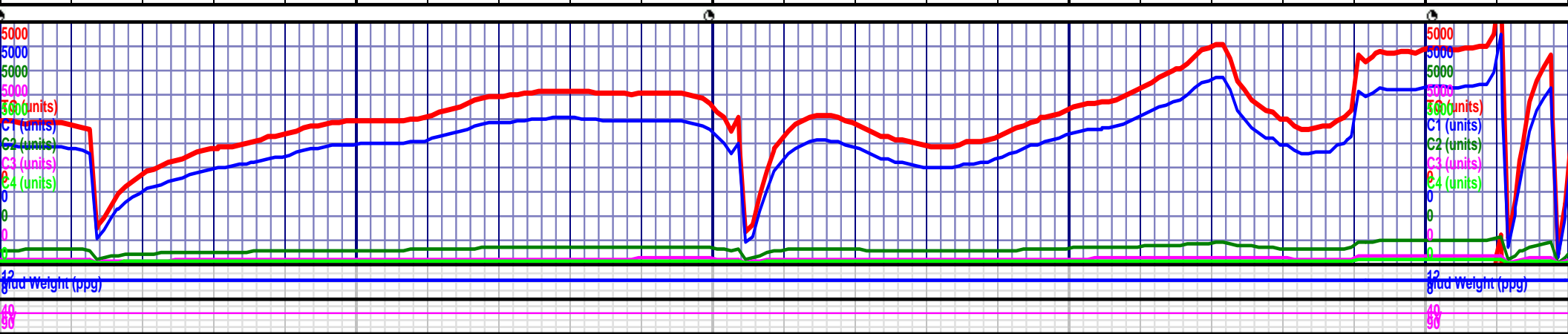
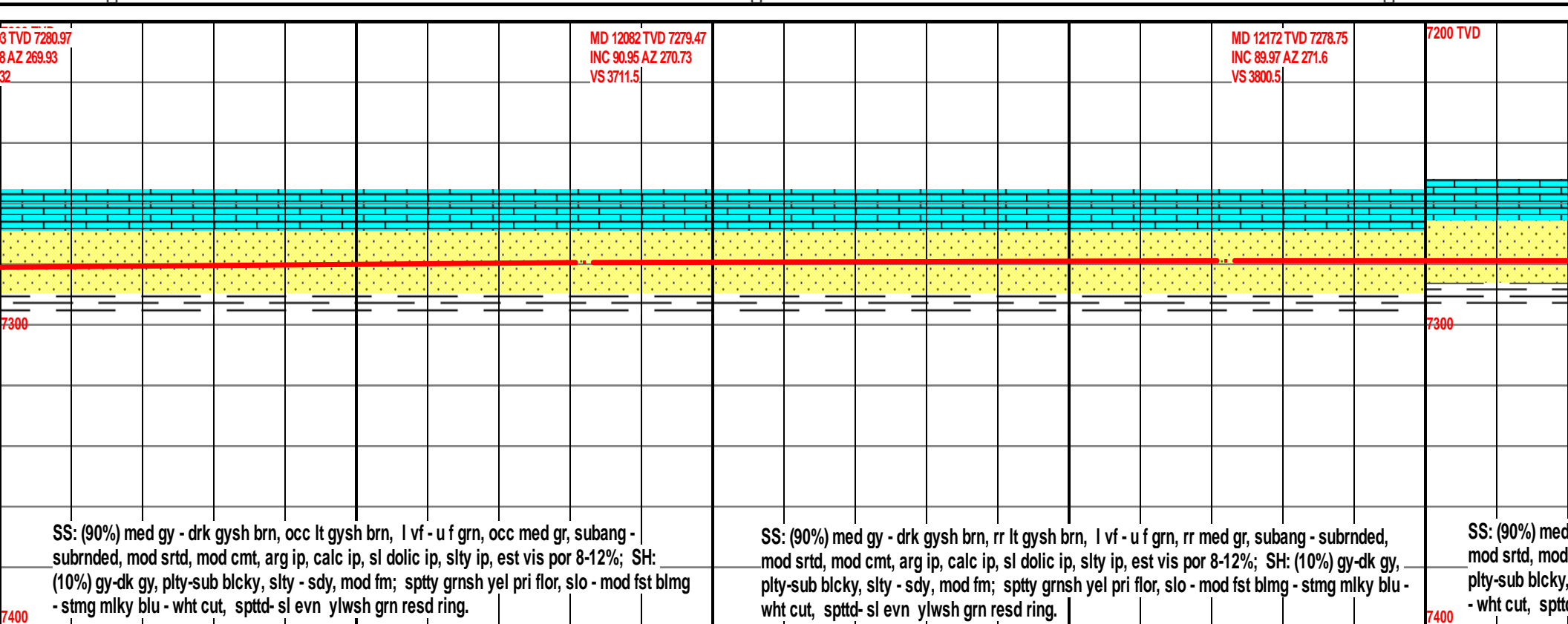
SS: (90%) med gy - drk gysh brn, occ lt gysh brn, l vf - u f grn, occ med gr, subang - subrnded, mod srtd, mod cmt, arg ip, calc ip, sl dolic ip, slty ip, est vis por 8-12%; SH: (10%) gy-dk gy, plty-sub bckly, slty - sdy, mod fm; sptty grnsh yel pri flor, slo - mod fst blmg - stmg milky blu - wht cut, spttd- sl evn ylwsh grn resd ring.

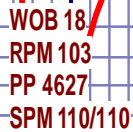
7400





12050 12100 12150 12200





ML ROP (FT/HR)
Total gas (units)
MWD GR (API)



MD 12351 TVD 7278.93
INC 89.97 AZ 272.7
VS 3977.14

7200 TVD

7300

7400

SS: (90%) med gy - drk gysh brn, rr lt gysh brn, l vf - u f grn, rr med gr, subang - subrnded, mod srted, mod cmt, arg ip, calc ip, sl dolic ip, slty ip, est vis por 8-12%; SH: (10%) gy-dk gy, plty-sub bckly, slty - sdy, mod fm; sptty grnsh yel pri flor, slo - mod fst blmg - stmg milky blu - wht cut, spttd ylwsh grn resd ring.

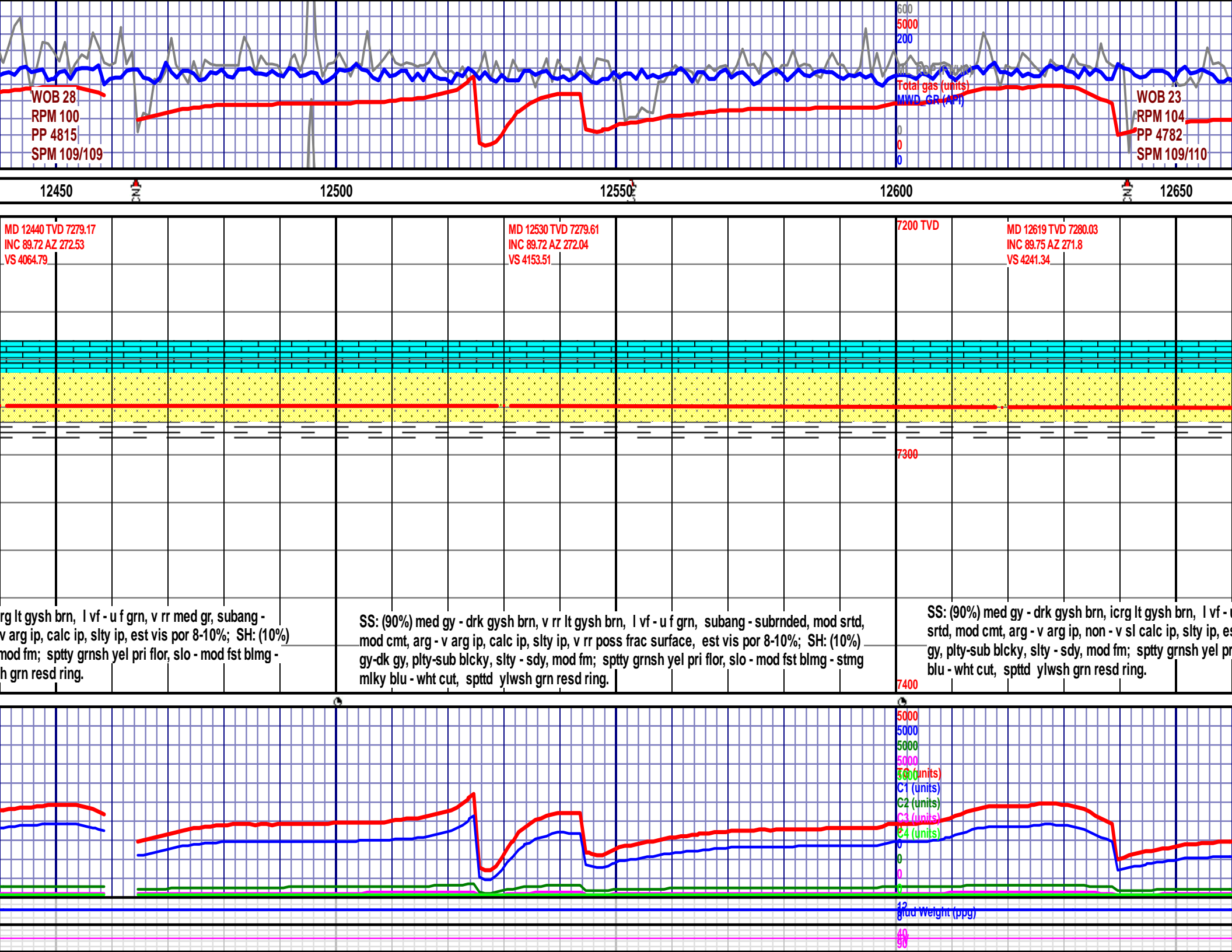
SS: (90%) med gy - drk gysh brn, dc
subrned, mod srtd, mod cmt, arg -
gy-dk gy, plty-sub bckly, slty - sdy, r
stmg milky blu - wht cut, spttd ylws

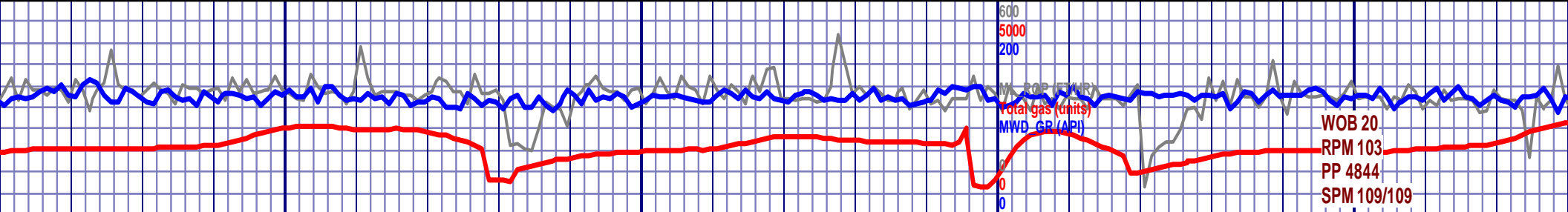


5000
5000
5000
5000
5000 (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)

12 Mud Weight (ppg)

40





12700

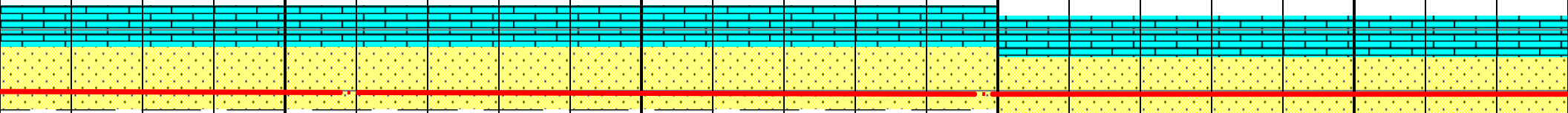
12750

12800

12850

MD 12709 TVD 7280.47
INC 89.69 AZ 271.24
VS 4330.26

MD 12798 TVD 7280.88
INC 89.78 AZ 270.43
VS 4418.35



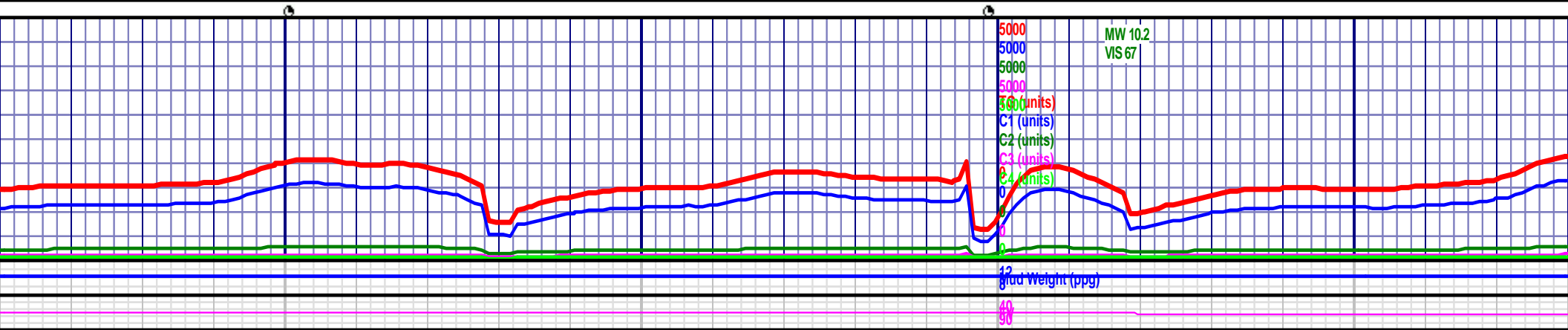
7300

u f grn, subang - subrnded, mod
st vis por 8-10%; SH: (10%) gy-dk
i flor, slo - mod fst blmg - stmg milky

SS: (90%) med gy - drk gysh brn, dcrgr lt gysh brn, l vf - u f grn, subang - subrnded, mod
srted, mod cmt, arg - v arg ip, non - v sl calc ip, slty ip, est vis por 8-10%; SH: (10%) gy-dk
gy, plty-sub bckly, slty - sdy, mod fm; sptty grnsh yel pri flor, slo - mod fst blmg - stmg milky
blu - wht cut, spttd ylwsh grn resd ring.

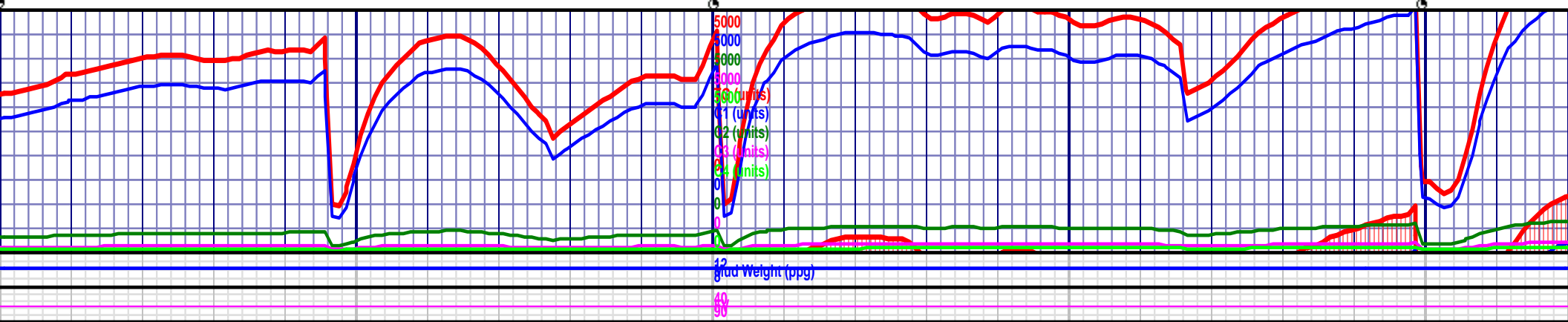
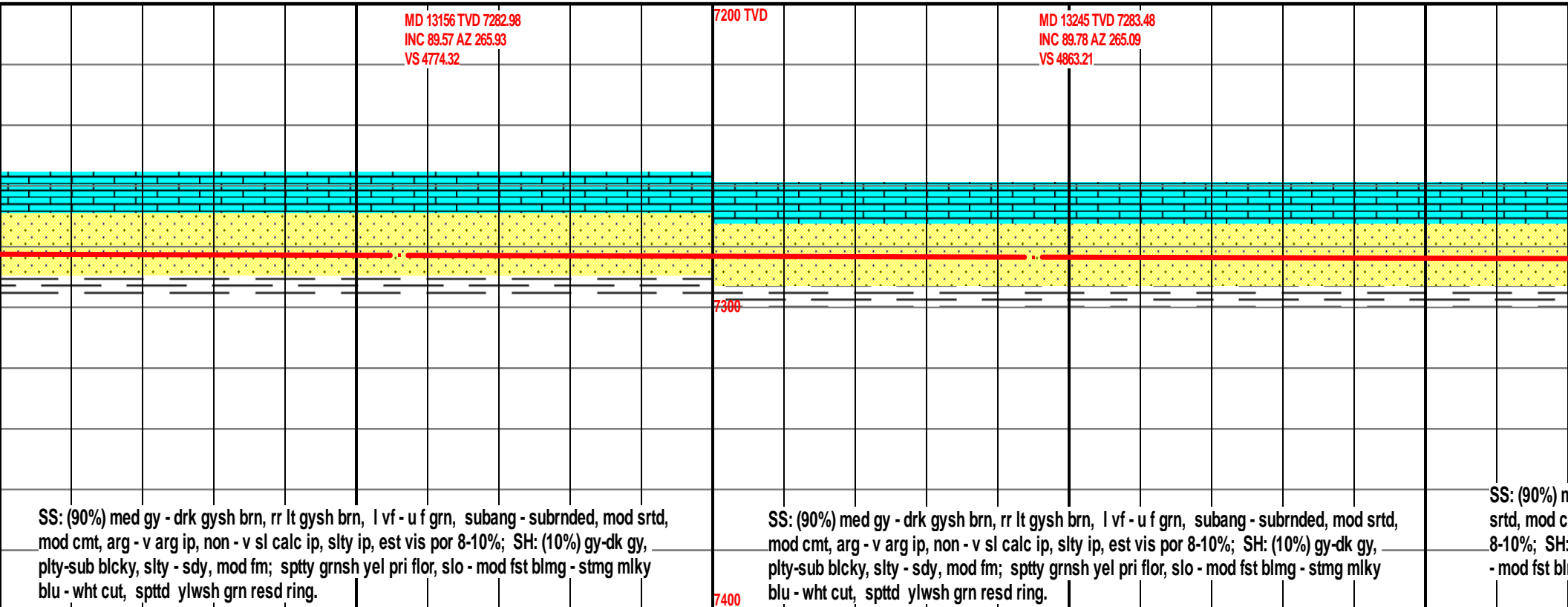
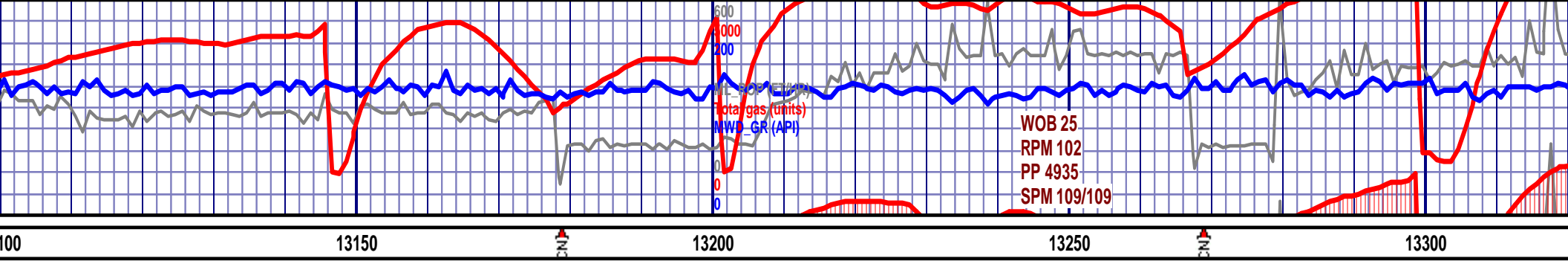
SS: (90%) med gy - drk gysh brn, rr lt gysh brn, l vf - u f grn, subang - sub
srted, mod cmt, arg - v arg ip, non - v sl calc ip, slty ip, est vis por 8-10%; SH: (10%) gy-dk
gy, plty-sub bckly, slty - sdy, mod fm; sptty grnsh yel pri flor, mod fst blmg
blu - wht cut, spttd ylwsh grn resd ring.

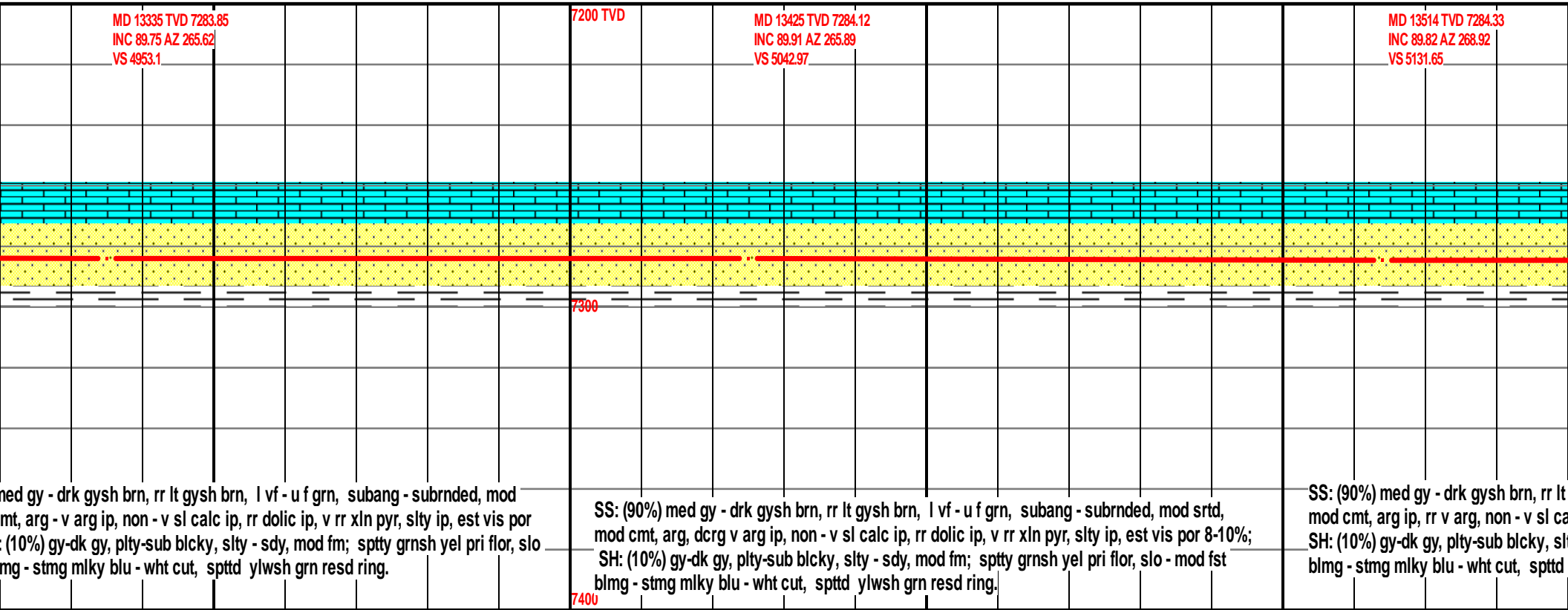
7400

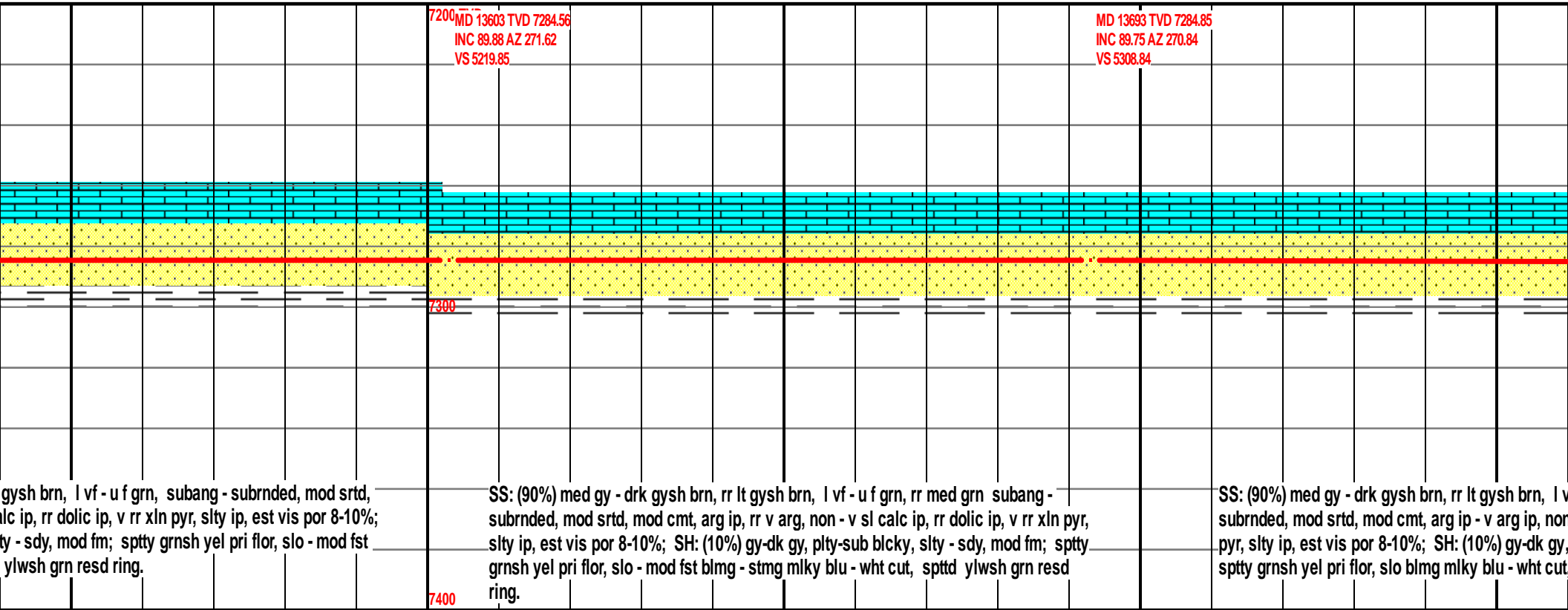


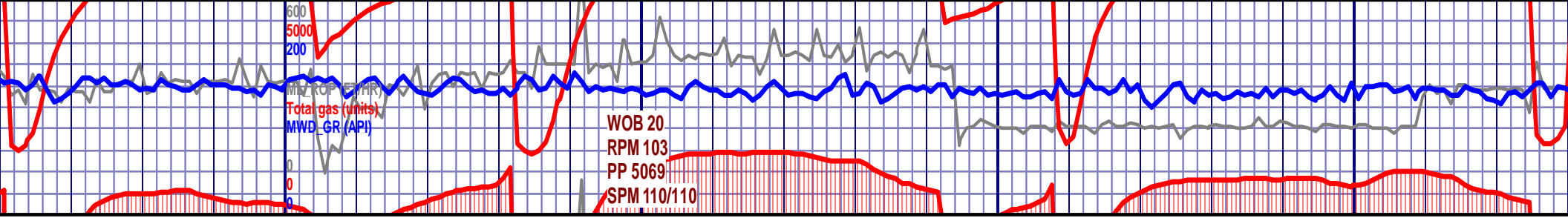
MW 10.2
VIS 67

Mud Weight (ppg)

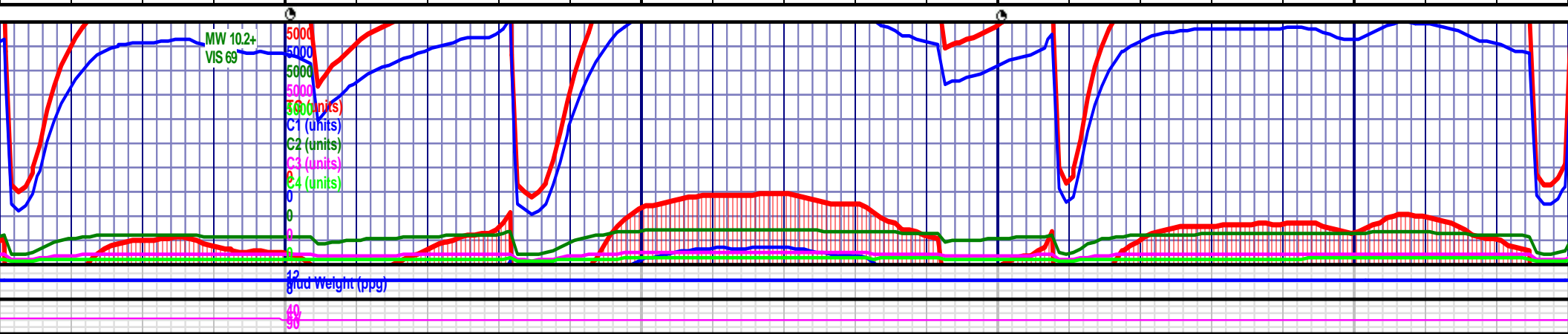
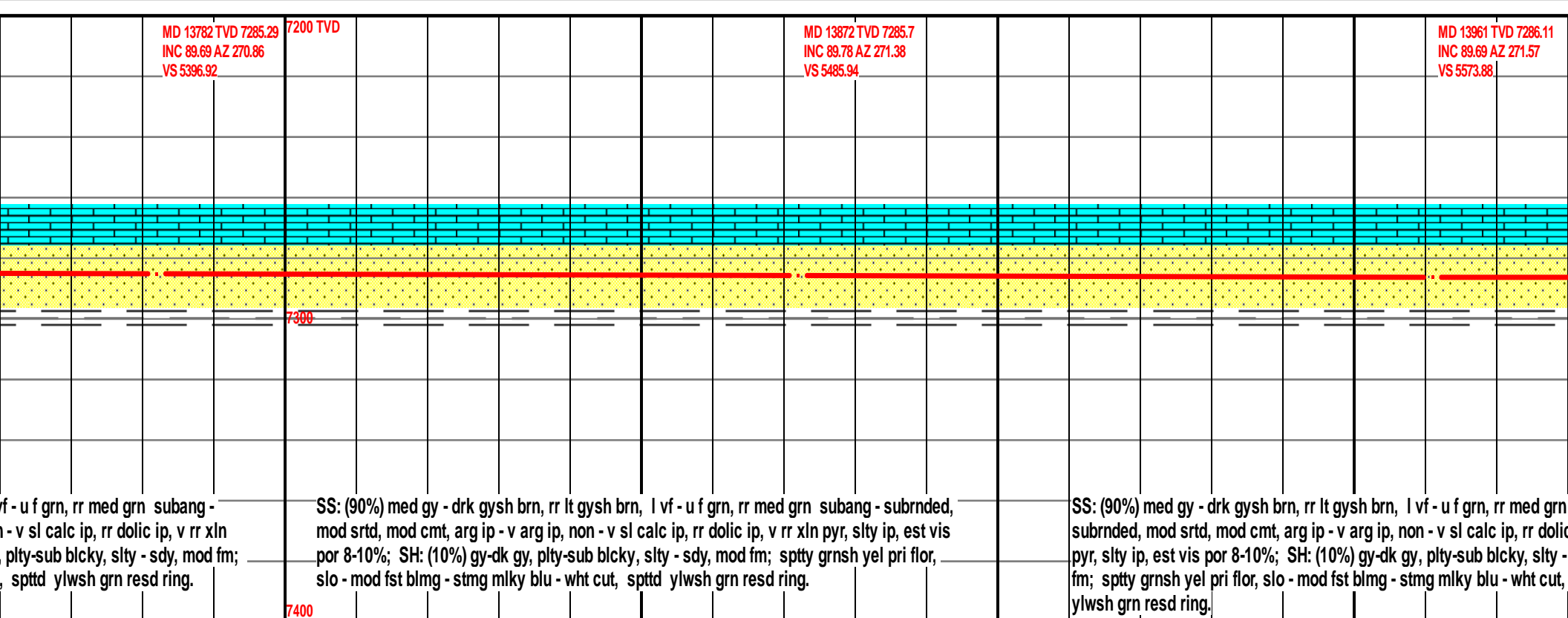


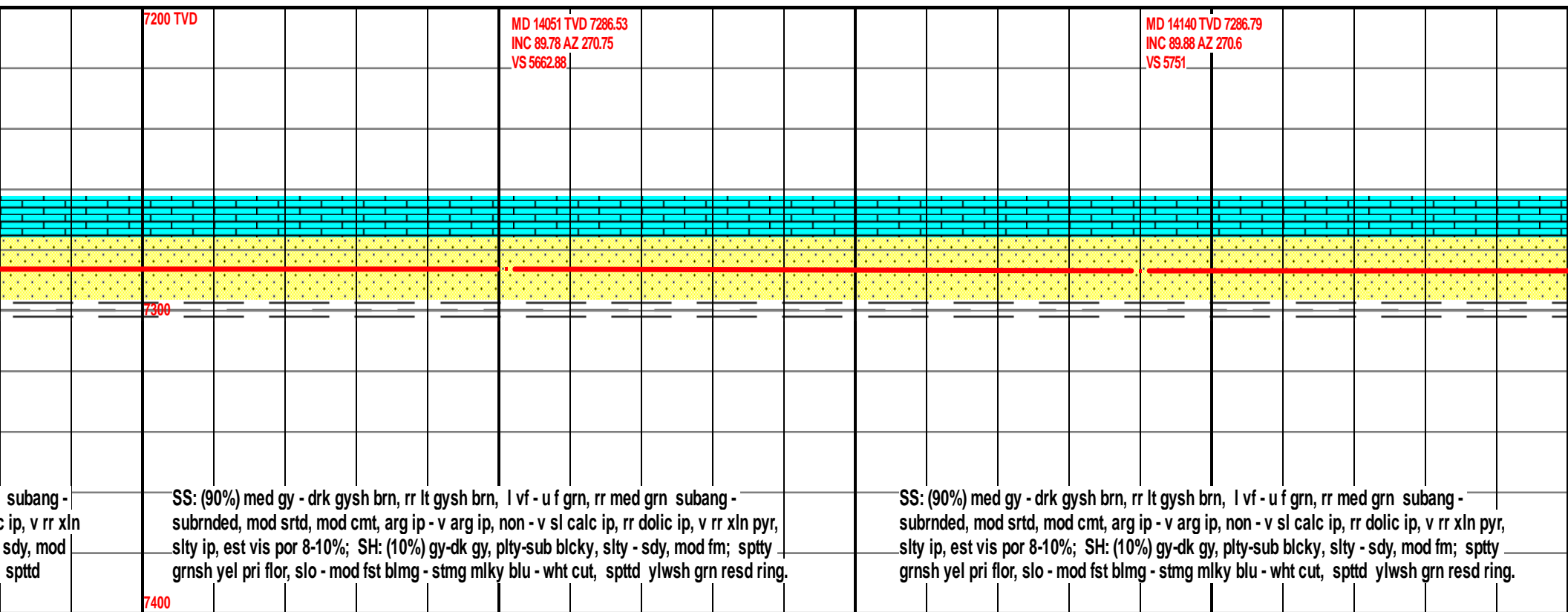


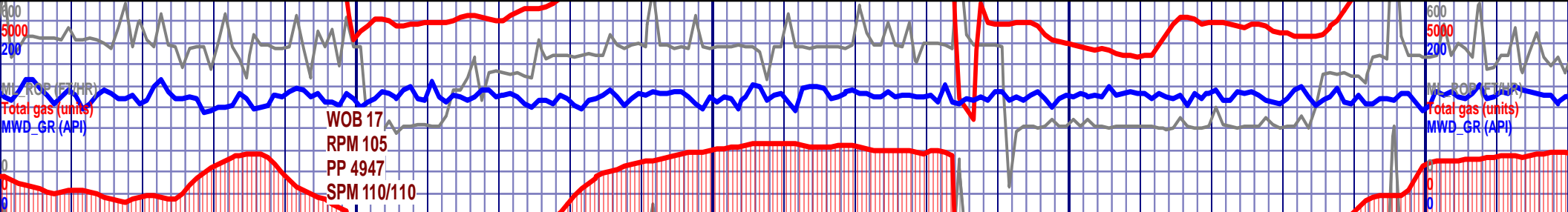




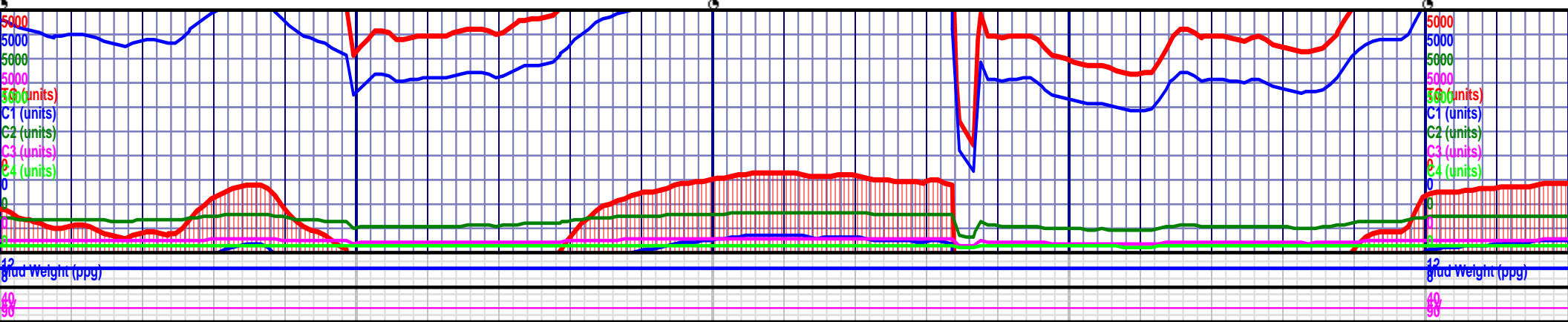
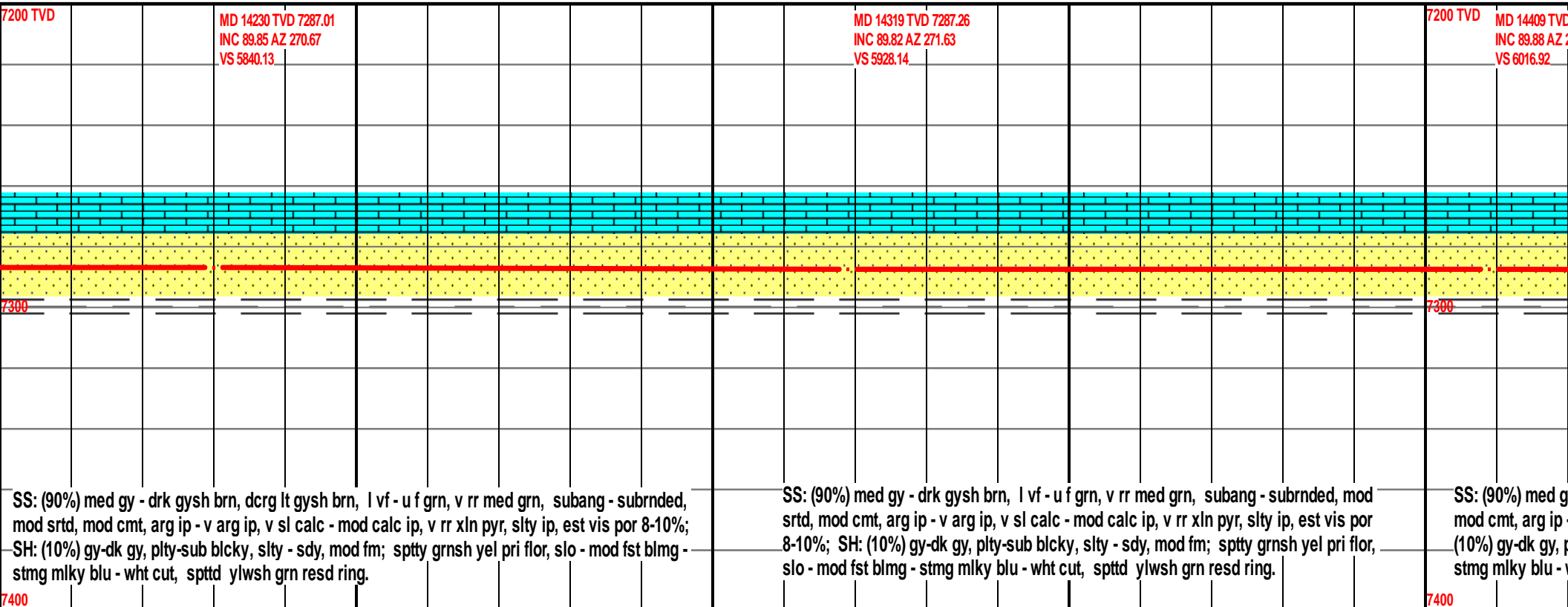
13800 13850 13900 13950

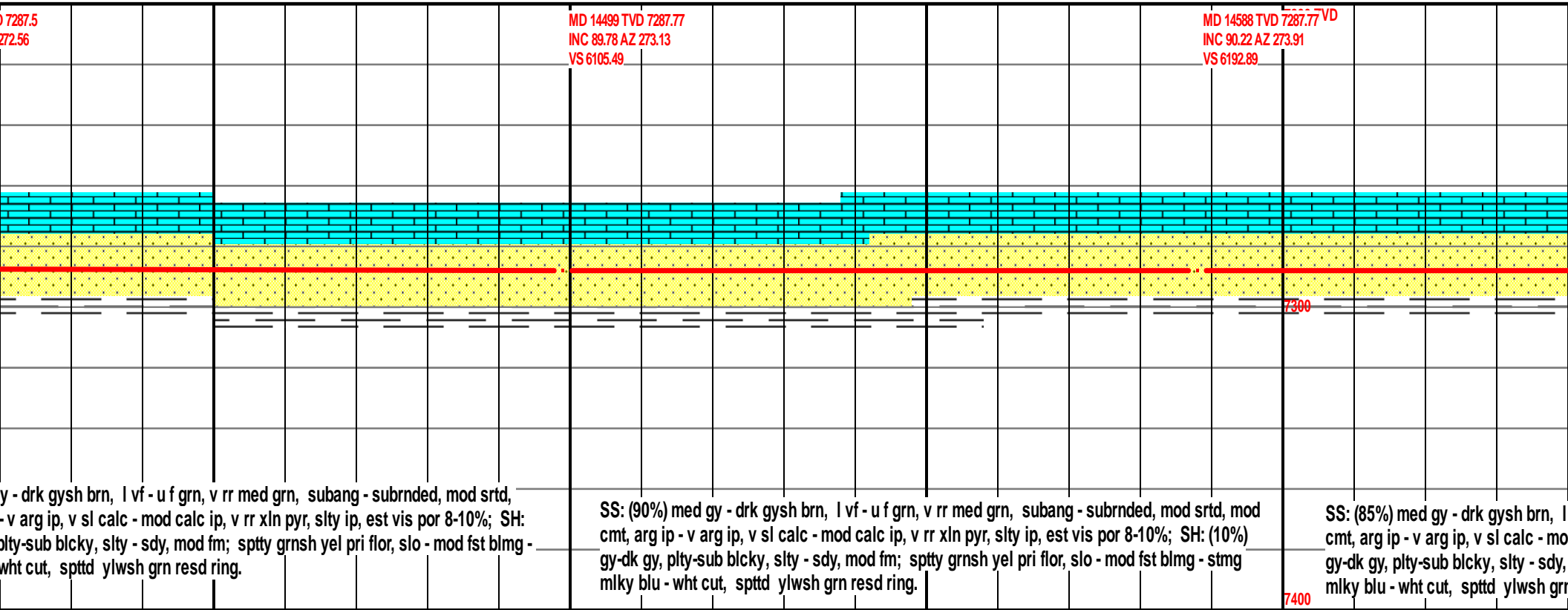


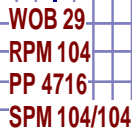


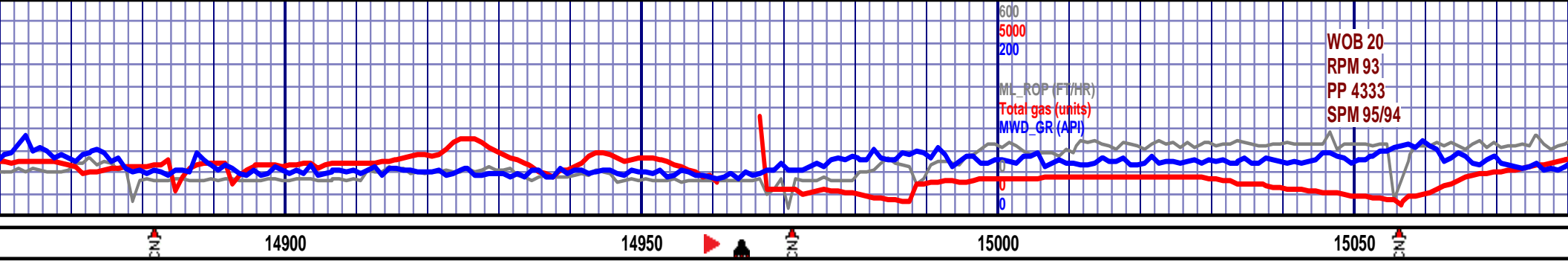


14200 14250 14300 14350 14400

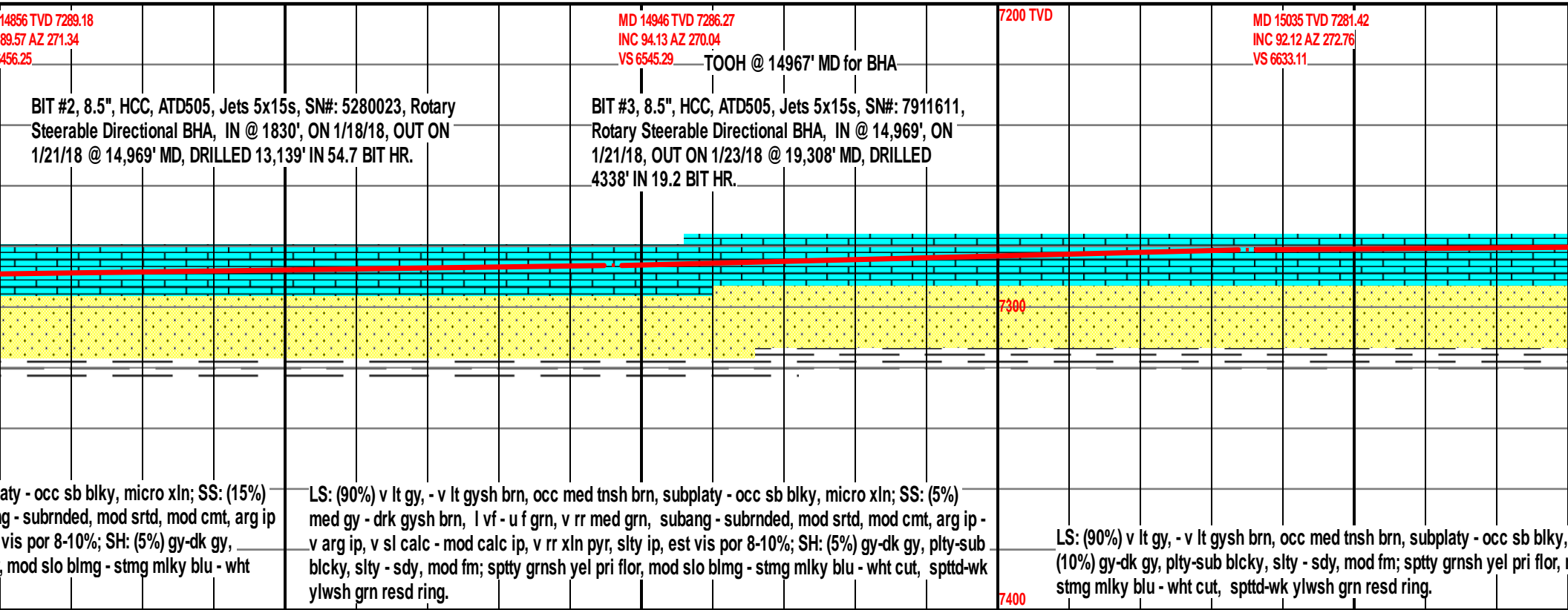








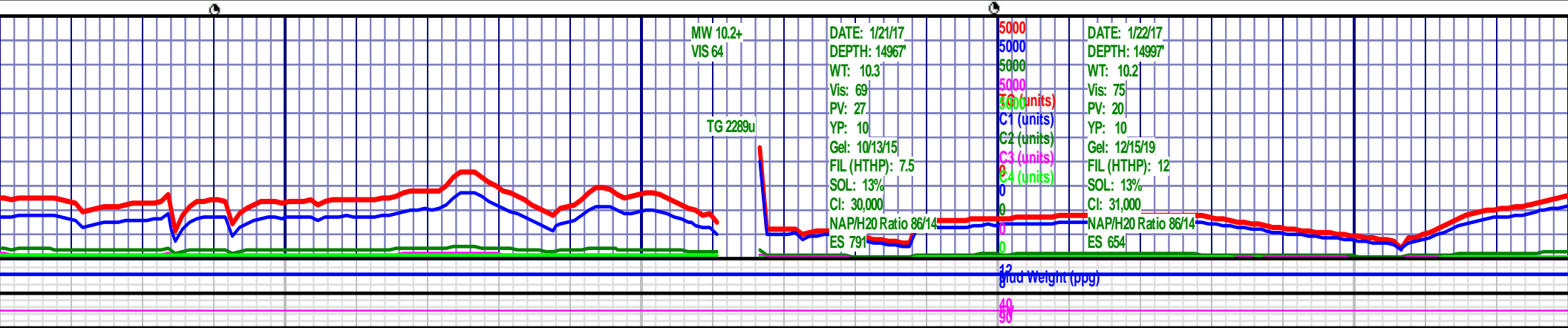
WOB 20
RPM 93
PP 4333
SPM 95/94



at - occ sb blk, micro xln; SS: (15%)
g - subrndd, mod srtd, mod cmt, arg ip
vis por 8-10%; SH: (5%) gy-dk gy,
mod slo blmg - stmg mlky blu - wht

LS: (90%) v lt gy, - v lt gysh brn, occ med tnsh brn, subplaty - occ sb blk, micro xln; SS: (5%)
med gy - drk gysh brn, l vf - u f grn, v rr med grn, subang - subrndd, mod srtd, mod cmt, arg ip -
v arg ip, v sl calc - mod calc ip, v rr xln pyr, slty ip, est vis por 8-10%; SH: (5%) gy-dk gy, pty-sub
blcky, slty - sdy, mod fm; sppty grnsh yel pri flor, mod slo blmg - stmg mlky blu - wht cut, spptd-wk
ylwsh grn resd ring.

LS: (90%) v lt gy, - v lt gysh brn, occ med tnsh brn, subplaty - occ sb blk,
(10%) gy-dk gy, pty-sub blcky, slty - sdy, mod fm; sppty grnsh yel pri flor,
stmg mlky blu - wht cut, spptd-wk ylwh grn resd ring.



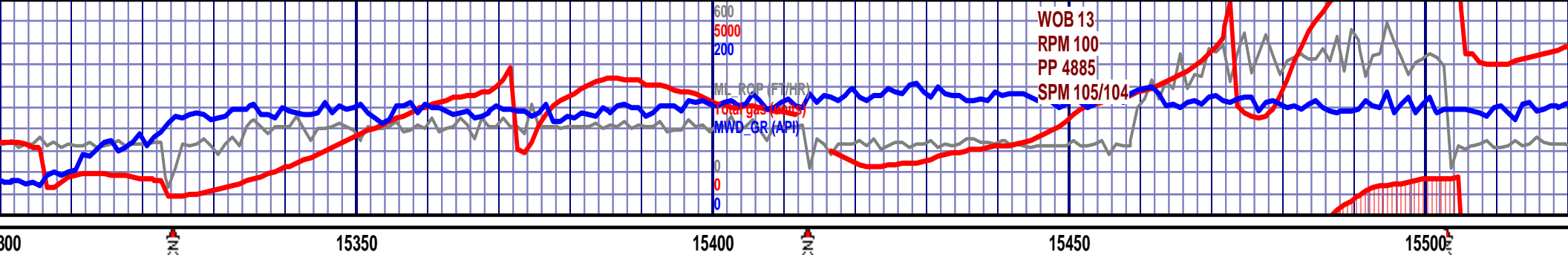
MW 10.2+
VIS 64

TG 2289u

DATE: 1/21/17
DEPTH: 14967'
WT: 10.3
Vis: 69
PV: 27
YP: 10
Gel: 10/13/15
FIL (HTHP): 7.5
SOL: 13%
Cl: 30,000
NAP/H2O Ratio 86/14
ES 791

DATE: 1/22/17
DEPTH: 14997'
WT: 10.2
Vis: 75
PV: 20
YP: 10
Gel: 12/15/19
FIL (HTHP): 12
SOL: 13%
Cl: 31,000
NAP/H2O Ratio 86/14
ES 654

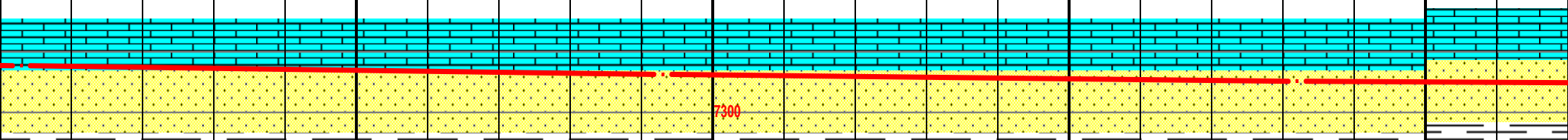
Fluid Weight (ppg)



MD 15303 TVD 7284.32
INC 87.85 AZ 269.21
VS 6897.91

MD 15393 TVD 7287.62
INC 87.94 AZ 268.08
VS 6987.35

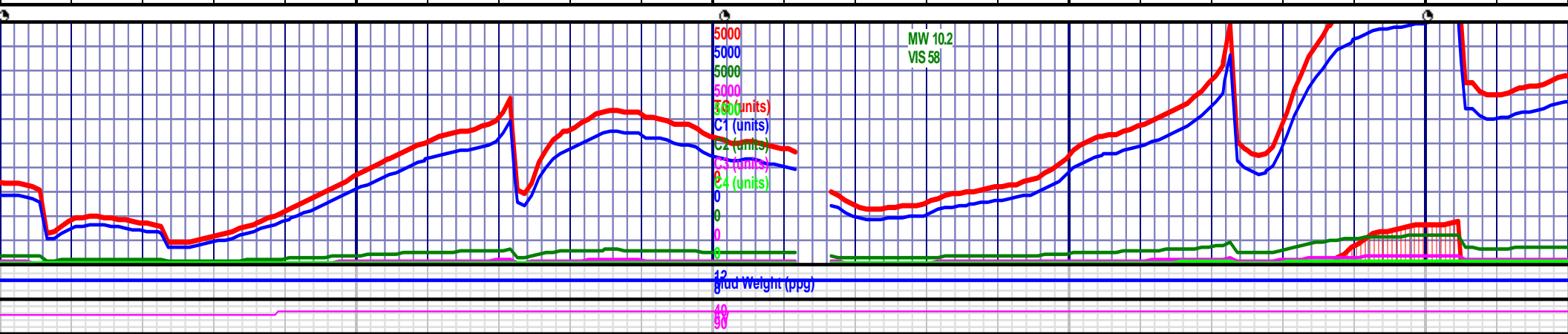
MD 15482 TVD 7289.91
INC 89.11 AZ 268.34
VS 7075.9

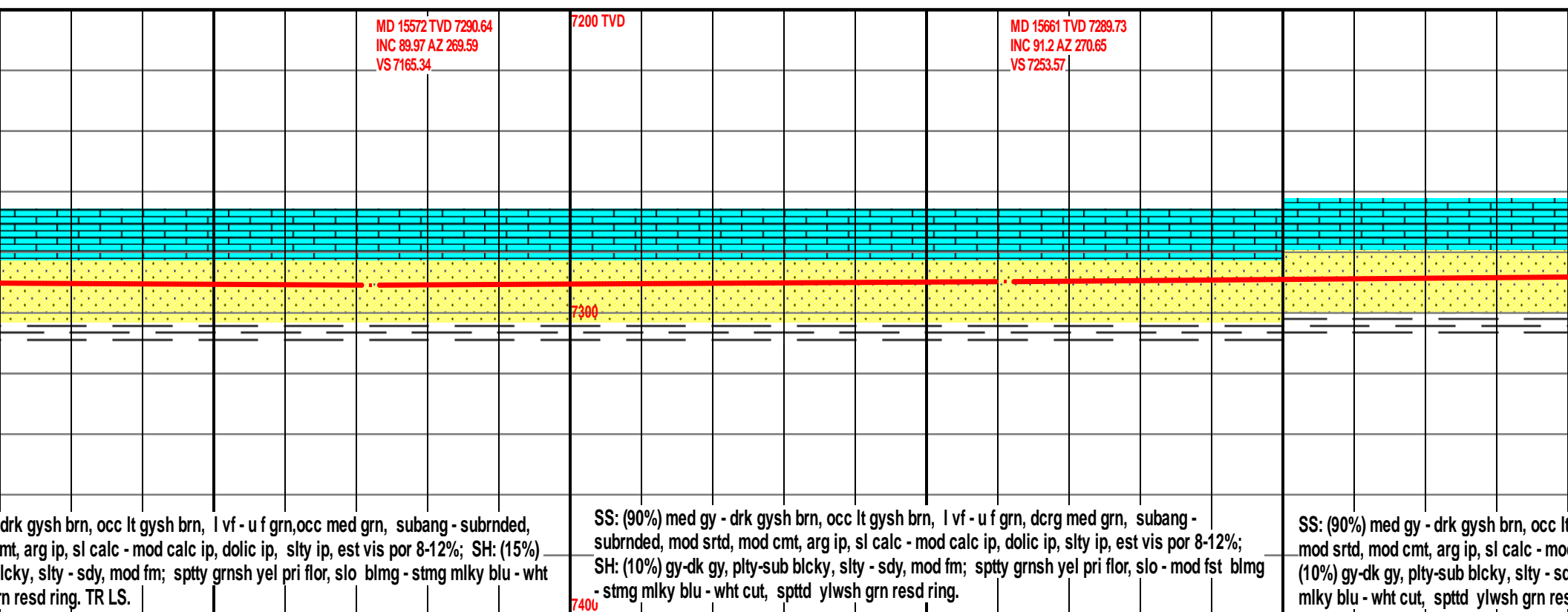
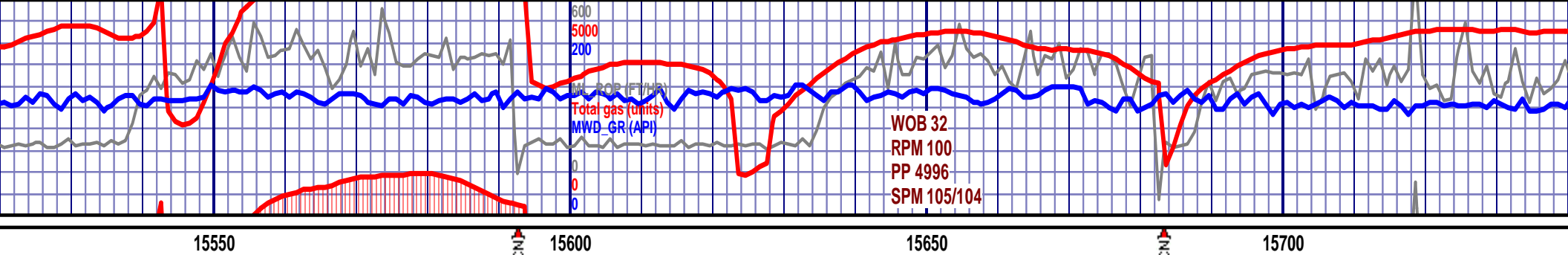


SS: (70%) med gy - drk gysh brn, l vf - u f grn, v rr med grn, subang - subrnded, mod strtd, p - mod cmt, arg ip - v arg ip, v sl calc - mod calc ip, v rr xln pyr, slty ip, est vis por 8-10%; LS: (25%) v lt gy, - v lt gysh brn, occ med tnsn brn, subplaty - occ sb blk, micro xln; SH: (5%) gy-dk gy, plty-sub blk, slty - sdy, mod fm; sptty grnsh yel pri flor, slo - mod fst blmg - stmg milky blu - wht cut, spttd ylwsh grn resd ring.

SS: (85%) med gy - drk gysh brn, occ lt gysh brn, l vf - u f grn, occ med grn, subang - subrnded, mod strtd, p - mod cmt, arg ip, sl calc - mod calc ip, dolc ip, slty ip, est vis por 8-12%; SH: (15%) gy-dk gy, plty-sub blk, slty - sdy, mod fm; sptty grnsh yel pri flor, slo blmg - stmg milky blu - wht cut, spttd ylwsh grn resd ring. TR LS.

SS: (85%) med gy - mod strtd, p - mod cmt, arg ip, sl calc - mod calc ip, dolc ip, slty ip, est vis por 8-12%; SH: (15%) gy-dk gy, plty-sub blk, slty - sdy, mod fm; sptty grnsh yel pri flor, slo blmg - stmg milky blu - wht cut, spttd ylwsh grn resd ring.

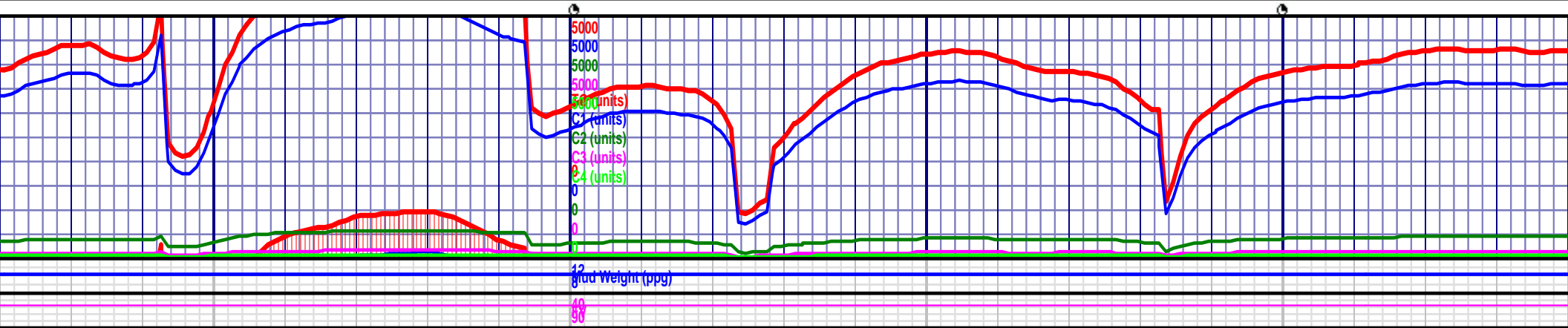


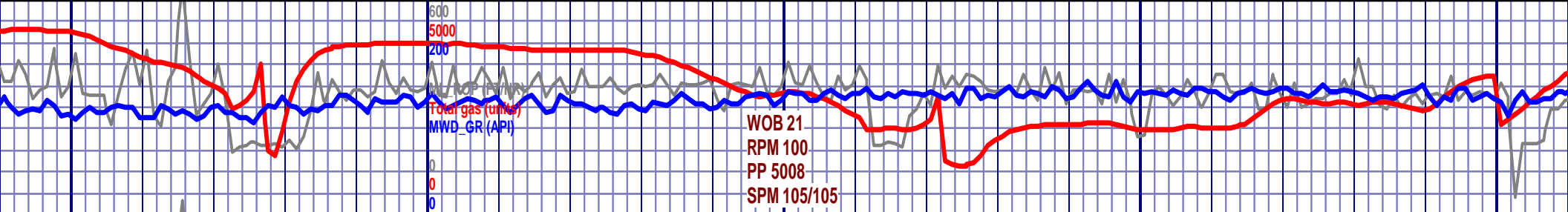


drk gysh brn, occ lt gysh brn, l vf - u f grn, occ med grn, subang - subrnded, mt, arg ip, sl calc - mod calc ip, dolc ip, slty ip, est vis por 8-12%; SH: (15%) lcky, slty - sdy, mod fm; sppty grnsh yel pri flor, slo blmg - stmg mlky blu - wht n resd ring. TR LS.

SS: (90%) med gy - drk gysh brn, occ lt gysh brn, l vf - u f grn, dcrg med grn, subang - subrnded, mod srtd, mod cmt, arg ip, sl calc - mod calc ip, dolc ip, slty ip, est vis por 8-12%; SH: (10%) gy-dk gy, plty-sub bcky, slty - sdy, mod fm; sppty grnsh yel pri flor, slo - mod fst blmg - stmg mlky blu - wht cut, spttd ylwsh grn resd ring.

SS: (90%) med gy - drk gysh brn, occ lt gysh brn, l vf - u f grn, dcrg med grn, subang - subrnded, mod srtd, mod cmt, arg ip, sl calc - mod calc ip, dolc ip, slty ip, est vis por 8-12%; SH: (10%) gy-dk gy, plty-sub bcky, slty - sdy, mod fm; sppty grnsh yel pri flor, slo - mod fst blmg - stmg mlky blu - wht cut, spttd ylwsh grn resd ring.





15750

15800

15850

15900

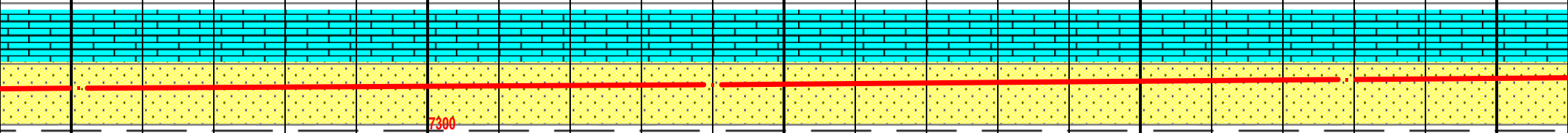
15950

MD 15751 TVD 7288.09
INC 90.89 AZ 270.39
VS 7342.71

7200 TVD

MD 15840 TVD 7286.68
INC 90.92 AZ 269.83
VS 7430.94

MD 15929 TVD 7285.18
INC 91.02 AZ 269.72
VS 7519.24



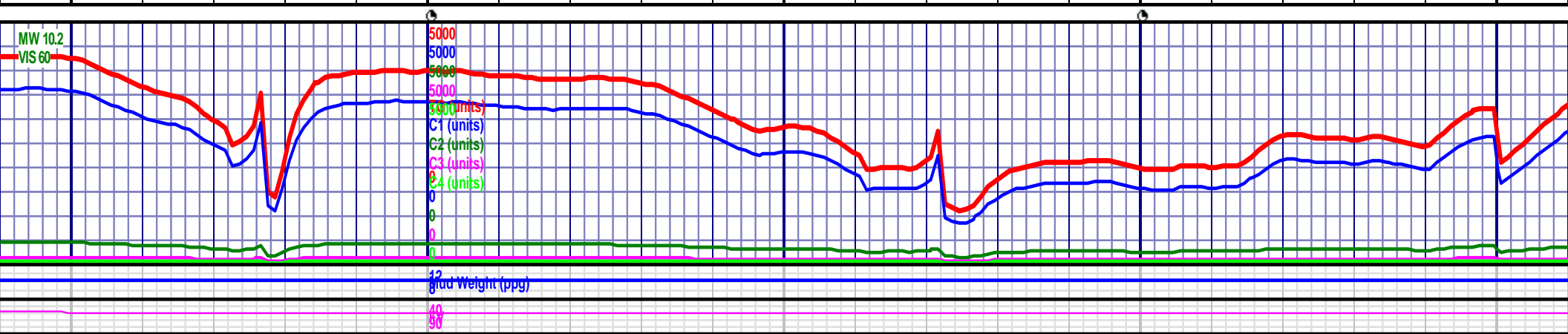
7300

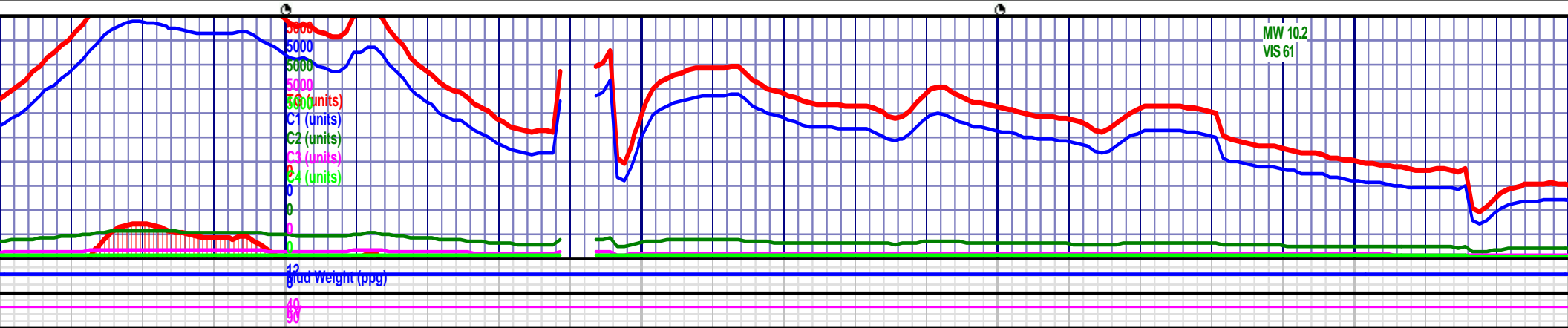
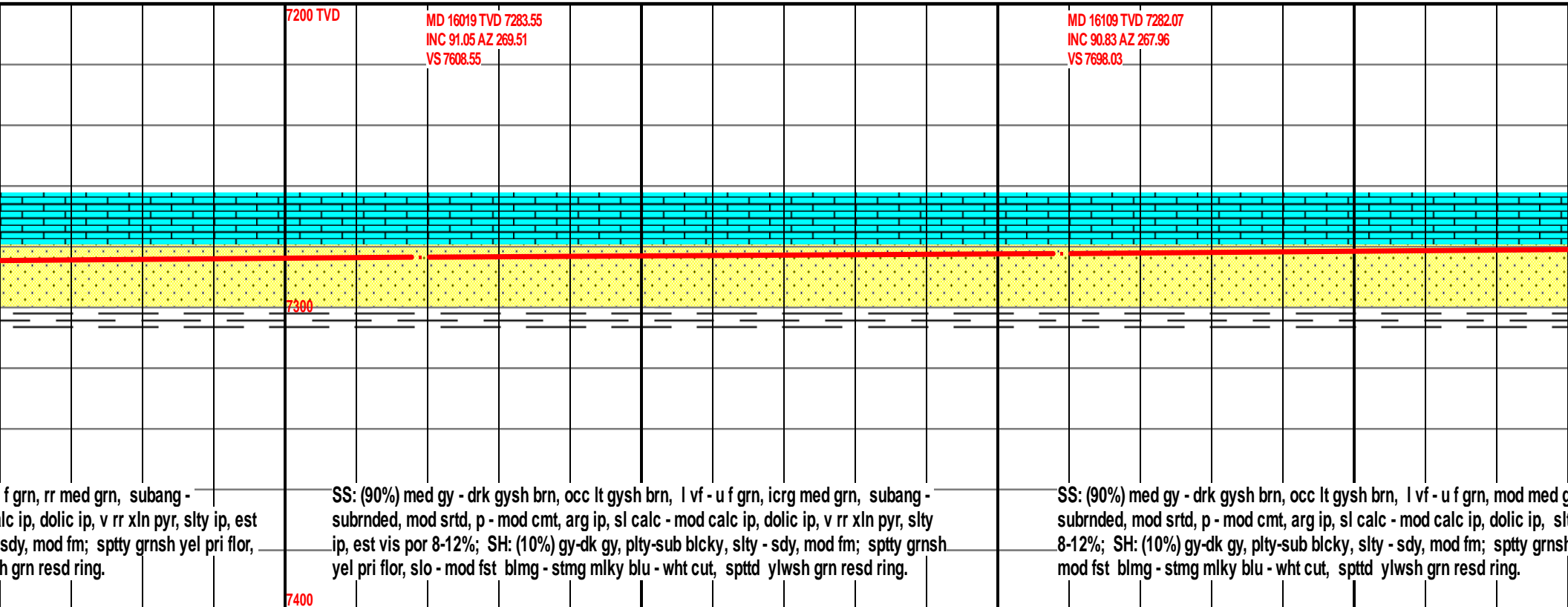
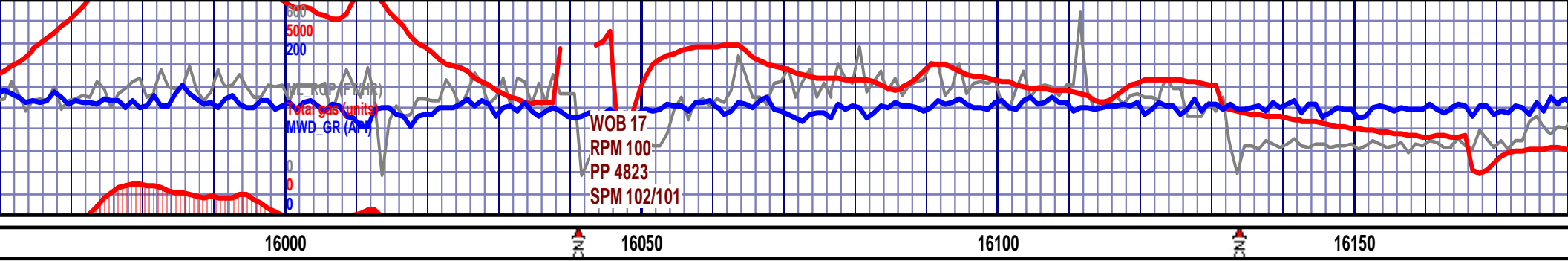
gysh brn, l vf - u f grn, dcrg med grn, subang - subrnded, d calc ip, dolc ip, v rr xln pyr, slty ip, est vis por 8-12%; SH: ly, mod fm; sptty grnsh yel pri flor, slo - mod fst blmg - stmg sd ring.

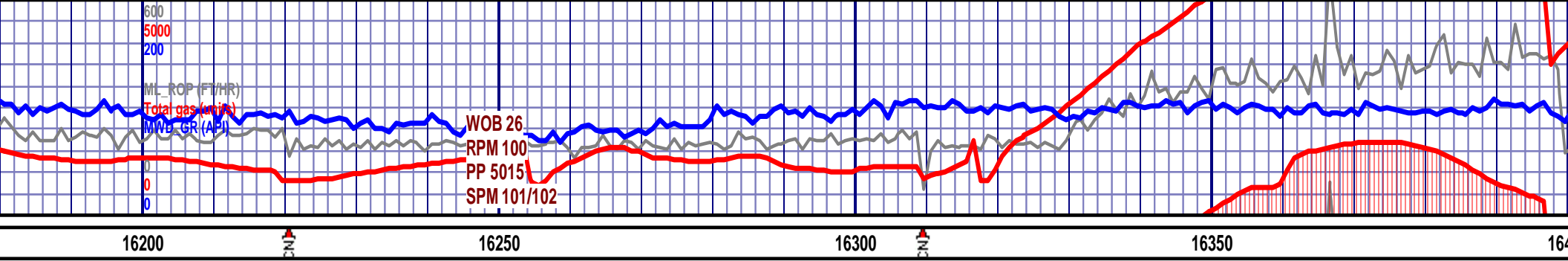
SS: (90%) med gy - drk gysh brn, occ lt gysh brn, l vf - u f grn, dcrg med grn, subang - subrnded, mod srtd, p - mod cmt, arg ip, sl calc - mod calc ip, dolc ip, v rr xln pyr, slty ip, est vis por 8-12%; SH: (10%) gy-dk gy, plty-sub bckly, slty - sdy, mod fm; sptty grnsh yel pri flor, slo - mod fst blmg - stmg mlky blu - wht cut, spttd ylwsh grn resd ring.

SS: (90%) med gy - drk gysh brn, occ lt gysh brn, l vf - u subrnded, mod srtd, p - mod cmt, arg ip, sl calc - mod ca vis por 8-12%; SH: (10%) gy-dk gy, plty-sub bckly, slty - slo - mod fst blmg - stmg mlky blu - wht cut, spttd ylwsh

7400



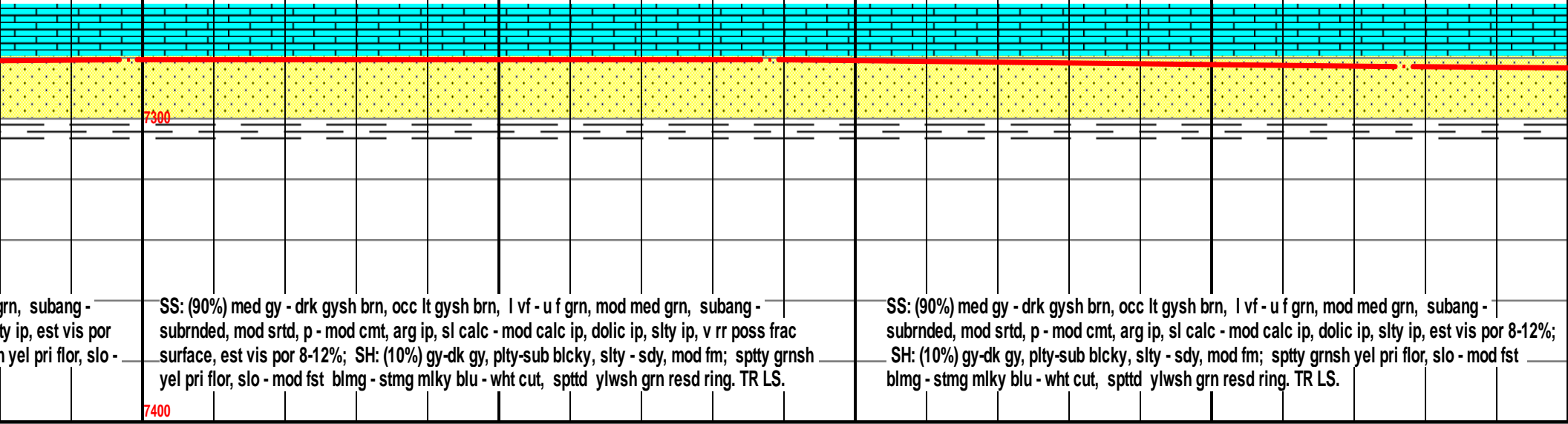




MD 16198 TVD 7280.71
INC 90.92 AZ 264.61
VS 7786.82

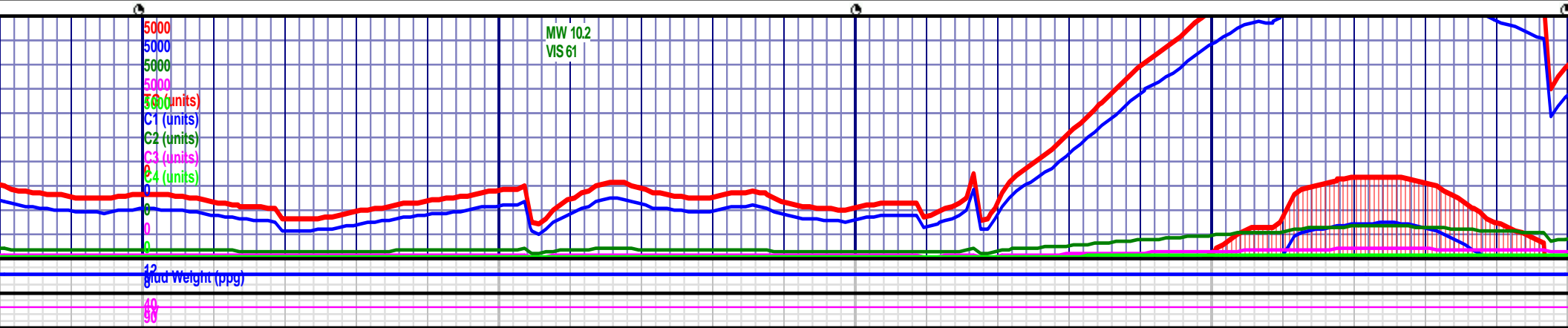
MD 16288 TVD 7280.76
INC 89.02 AZ 265.6
VS 7876.73

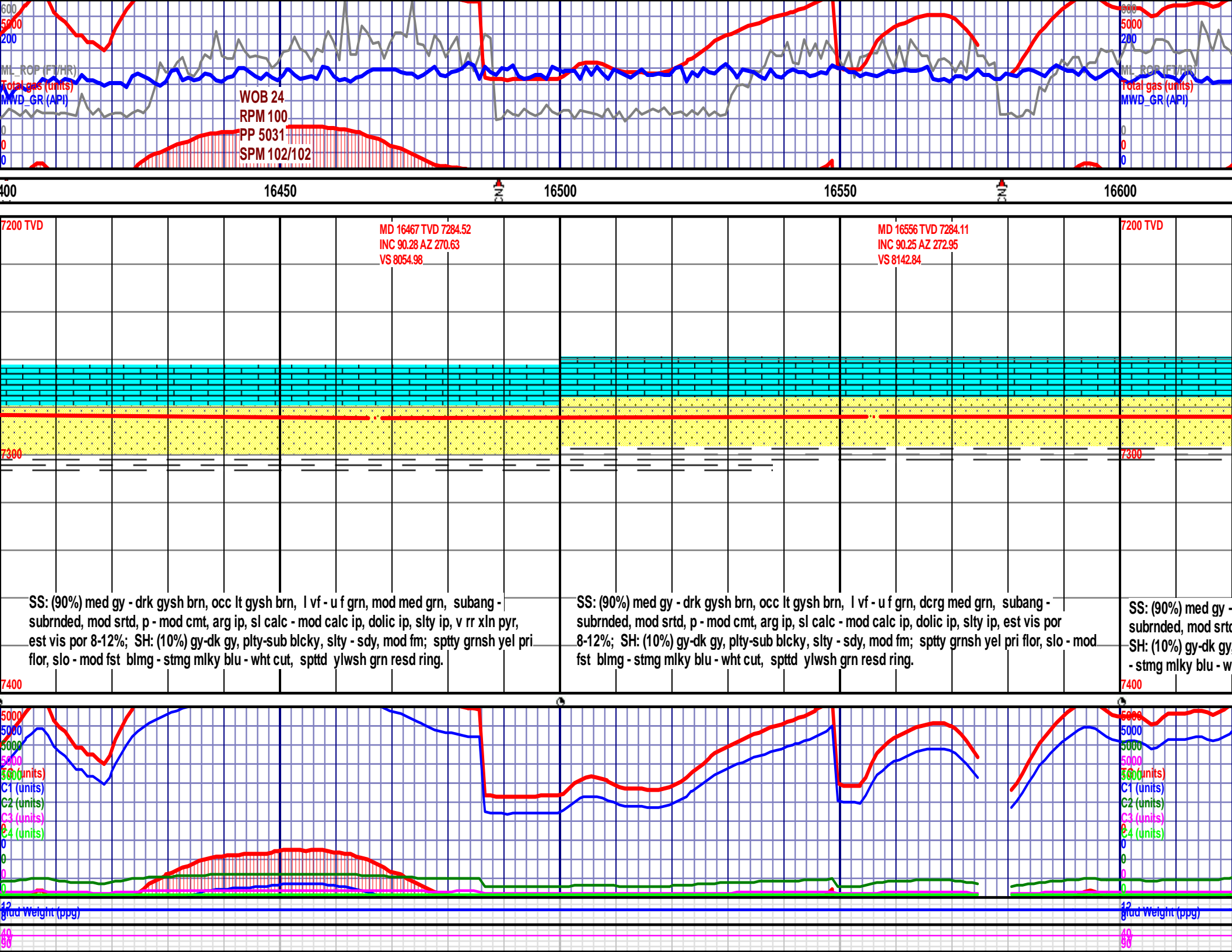
MD 16377 TVD 7283.12
INC 87.94 AZ 266.83
VS 7965.53

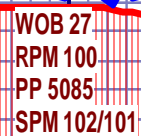


SS: (90%) med gy - drk gysh brn, occ lt gysh brn, l vf - u f grn, mod med grn, subang - subrnded, mod srtd, p - mod cmt, arg ip, sl calc - mod calc ip, dolc ip, slty ip, v rr poss frac surface, est vis por 8-12%; SH: (10%) gy-dk gy, plty-sub blkcy, slty - sdy, mod fm; sptty grnsh yel pri flor, slo - mod fst blmg - stmg mlky blu - wht cut, spttd ylwsh grn resd ring. TR LS.

SS: (90%) med gy - drk gysh brn, occ lt gysh brn, l vf - u f grn, mod med grn, subang - subrnded, mod srtd, p - mod cmt, arg ip, sl calc - mod calc ip, dolc ip, slty ip, est vis por 8-12%; SH: (10%) gy-dk gy, plty-sub blkcy, slty - sdy, mod fm; sptty grnsh yel pri flor, slo - mod fst blmg - stmg mlky blu - wht cut, spttd ylwsh grn resd ring. TR LS.







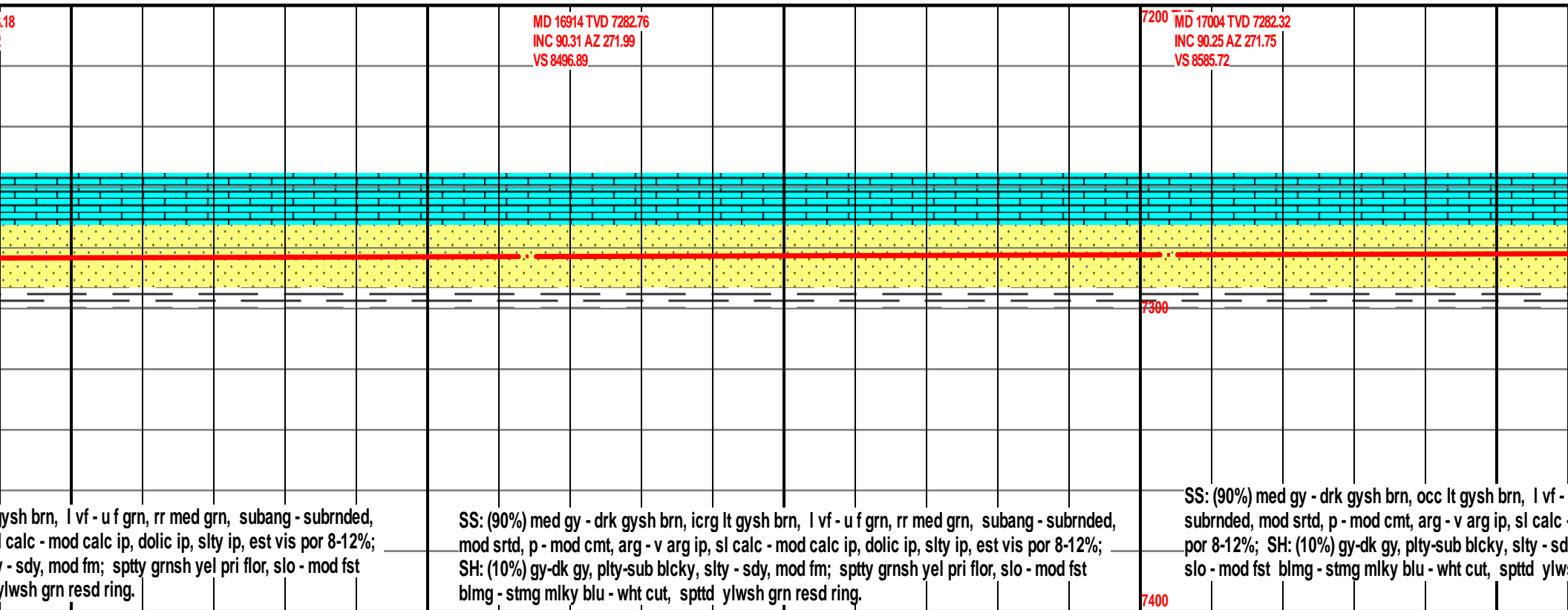
MD 16825 TVD 7283
INC 90.22 AZ 271.22
VS 8408.98

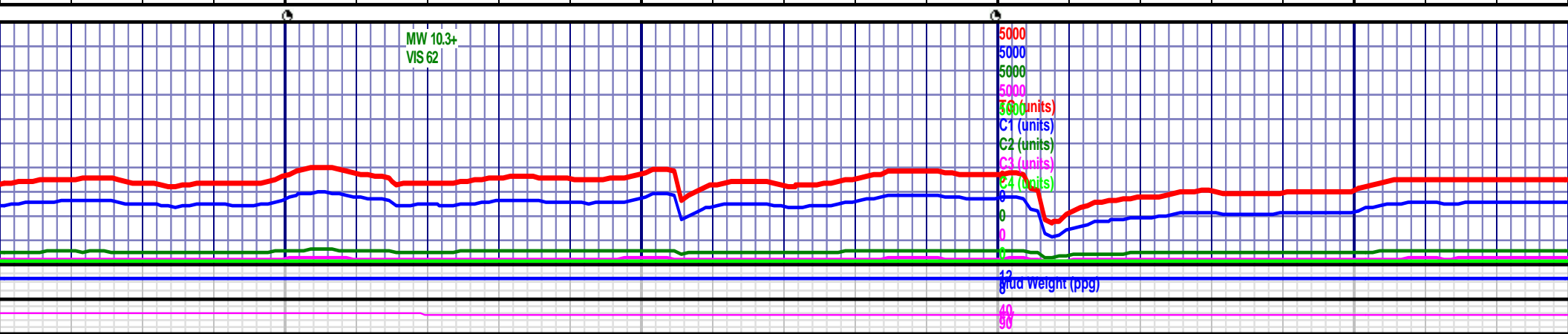
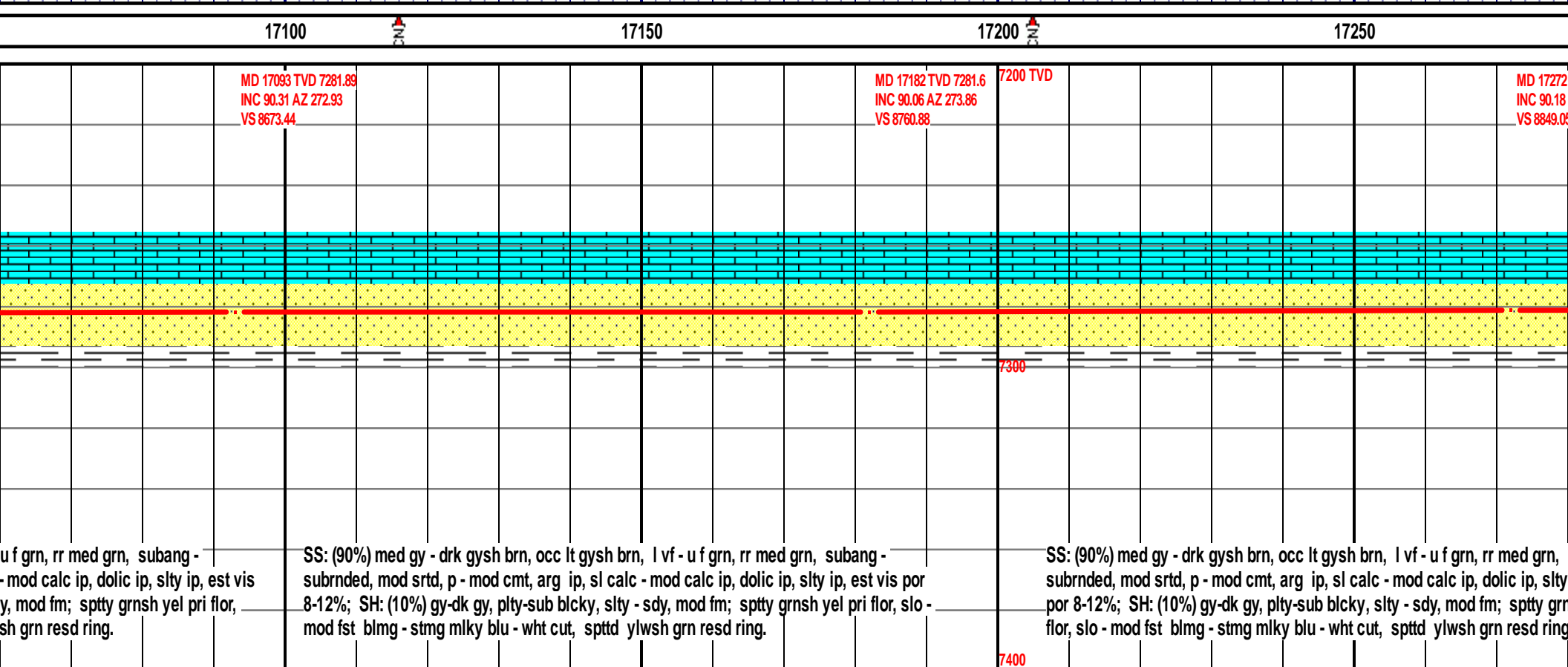
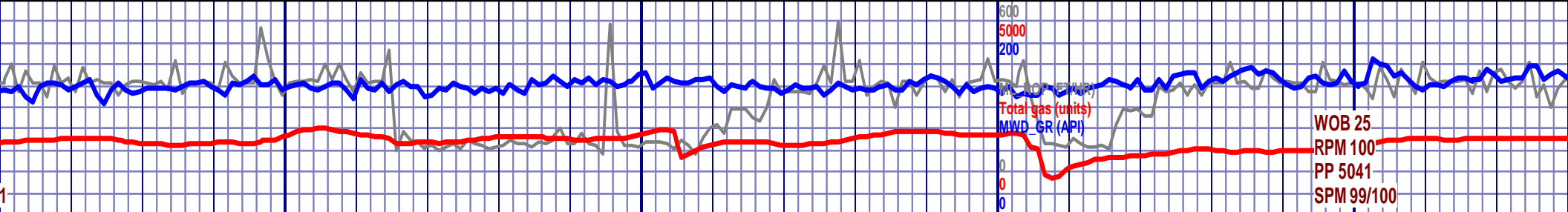


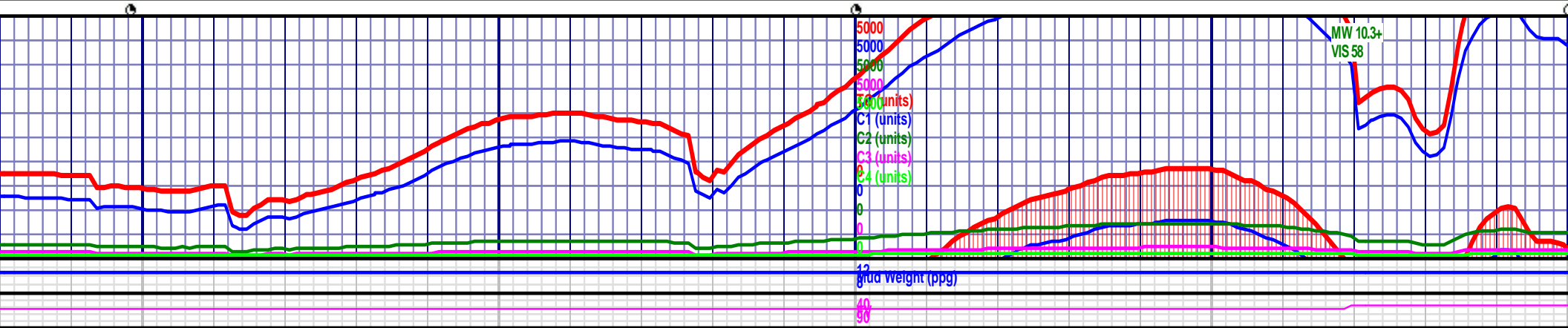
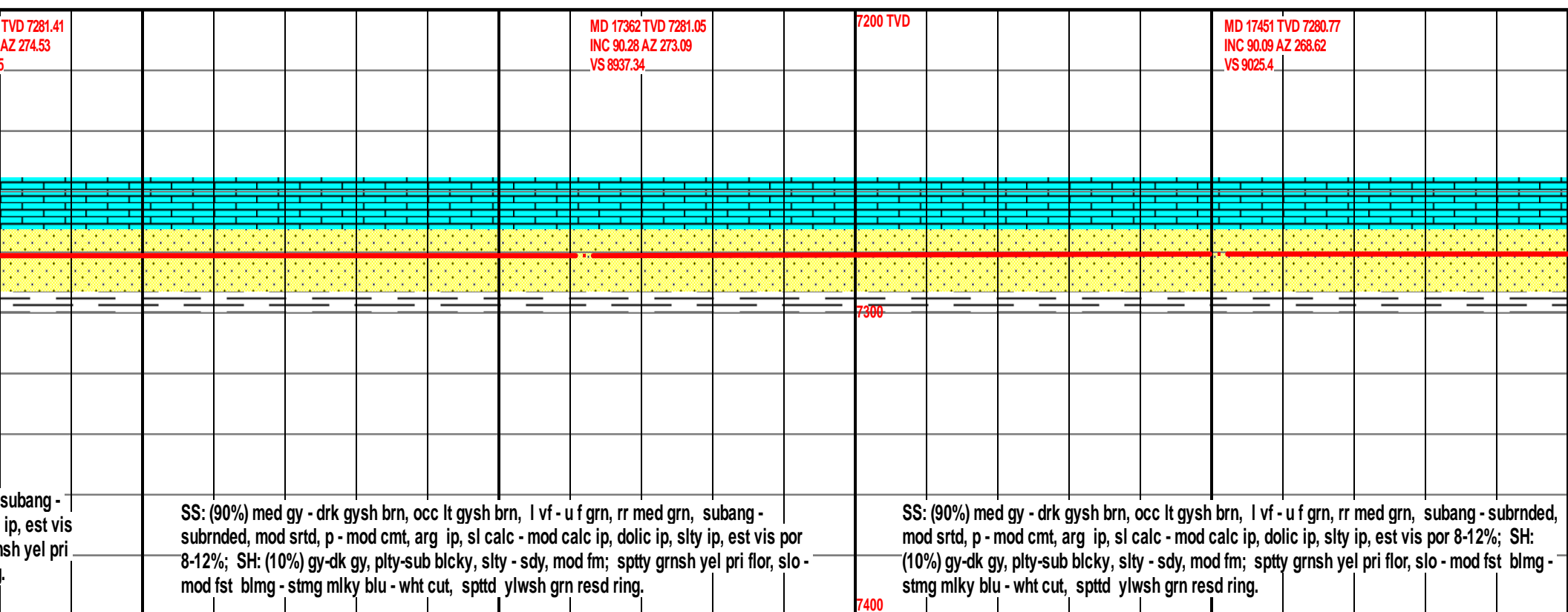
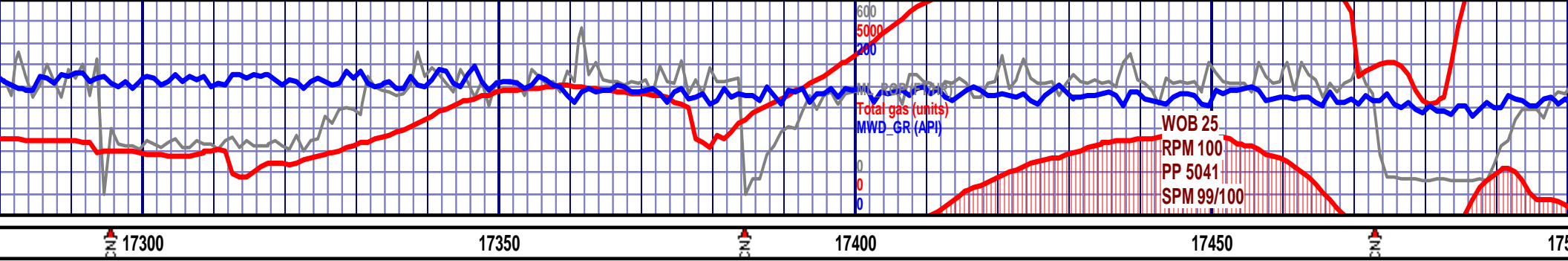
SS: (90%) med gy - drk gysh brn, rr lt g
mod srtd, p - mod cmt, arg - v arg ip, sl
SH: (10%) gy-dk gy, plty-sub bicky, slty
blmg - stmg milky blu - wht cut, spstd y

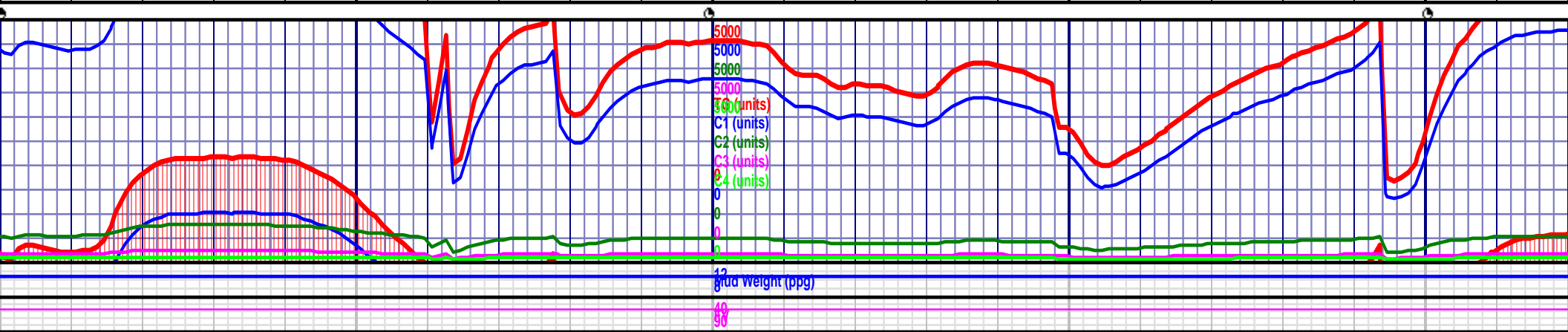
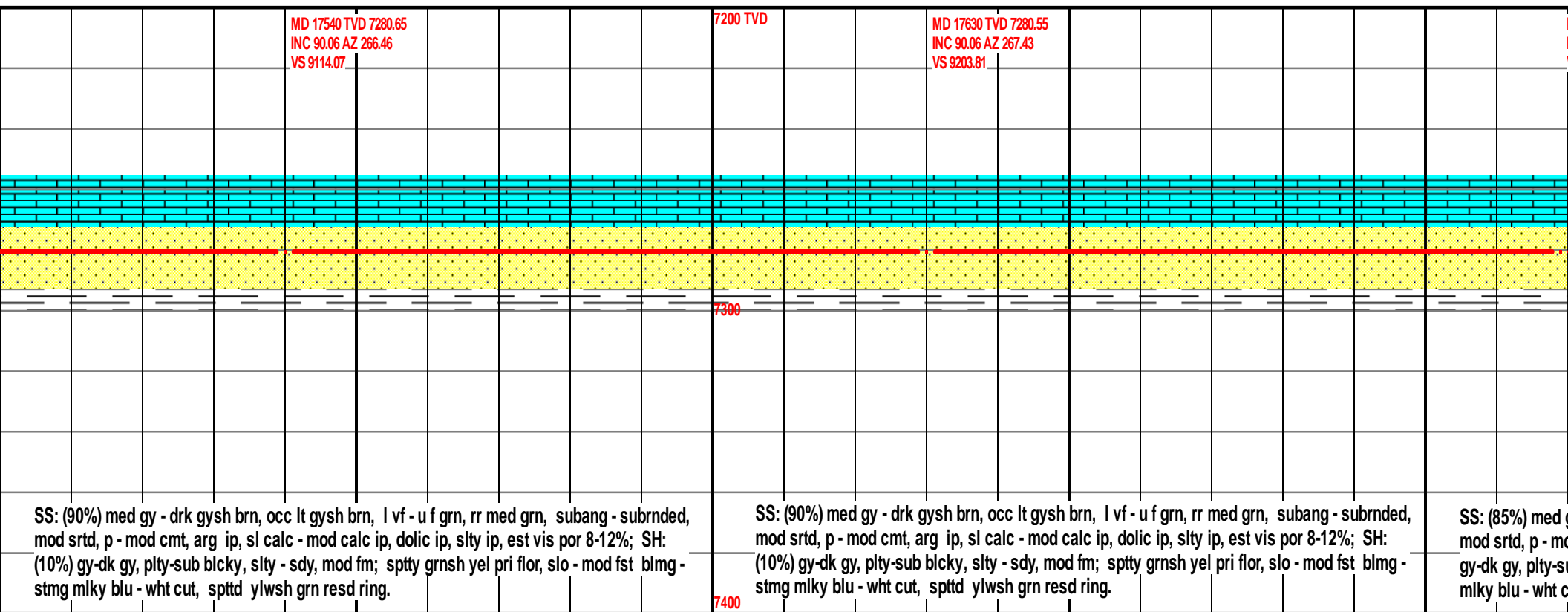
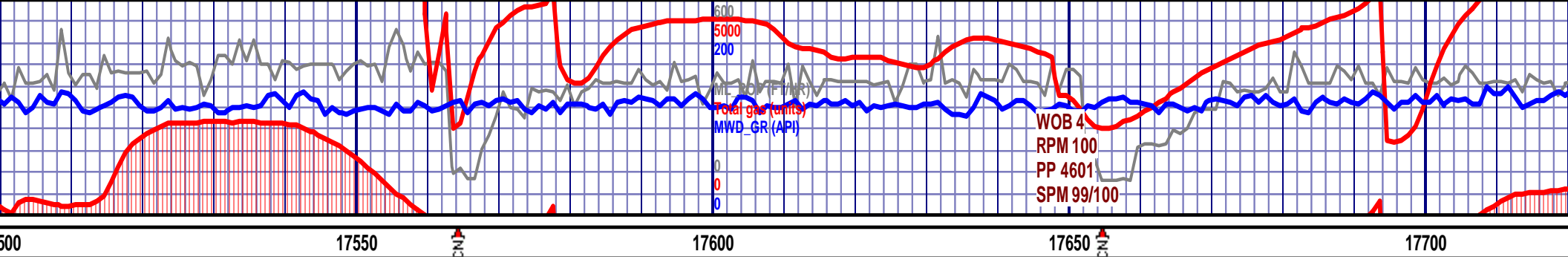


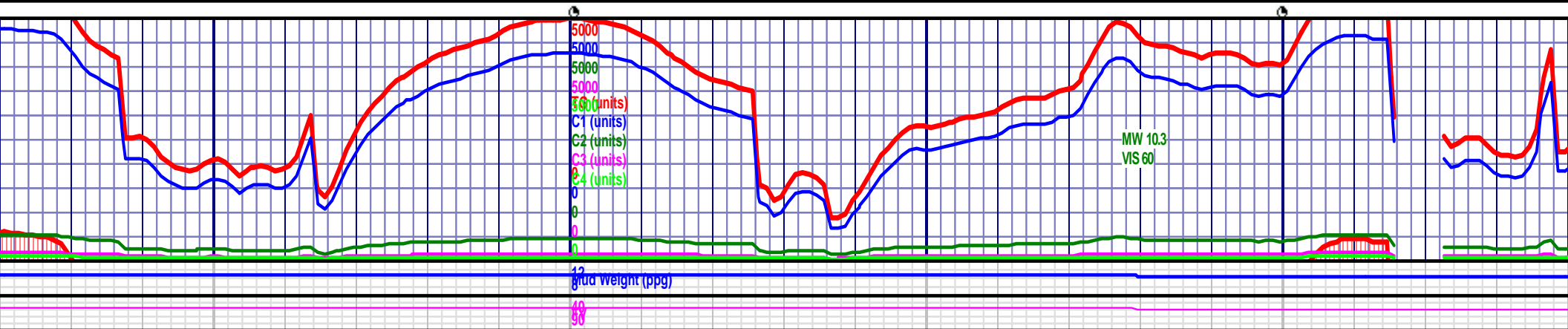
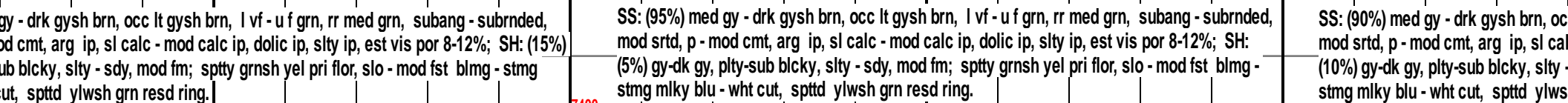
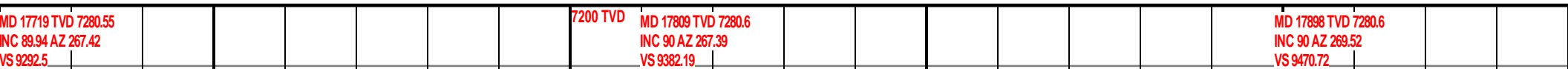
5000
5000
5000
5000
5000
5000 (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
0
0
0
12
400 weight (ppg)
40 g

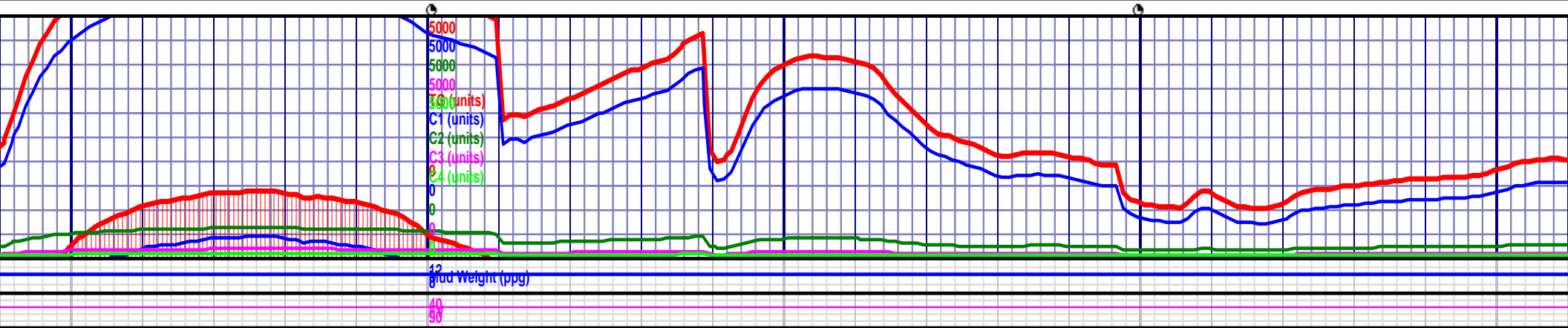
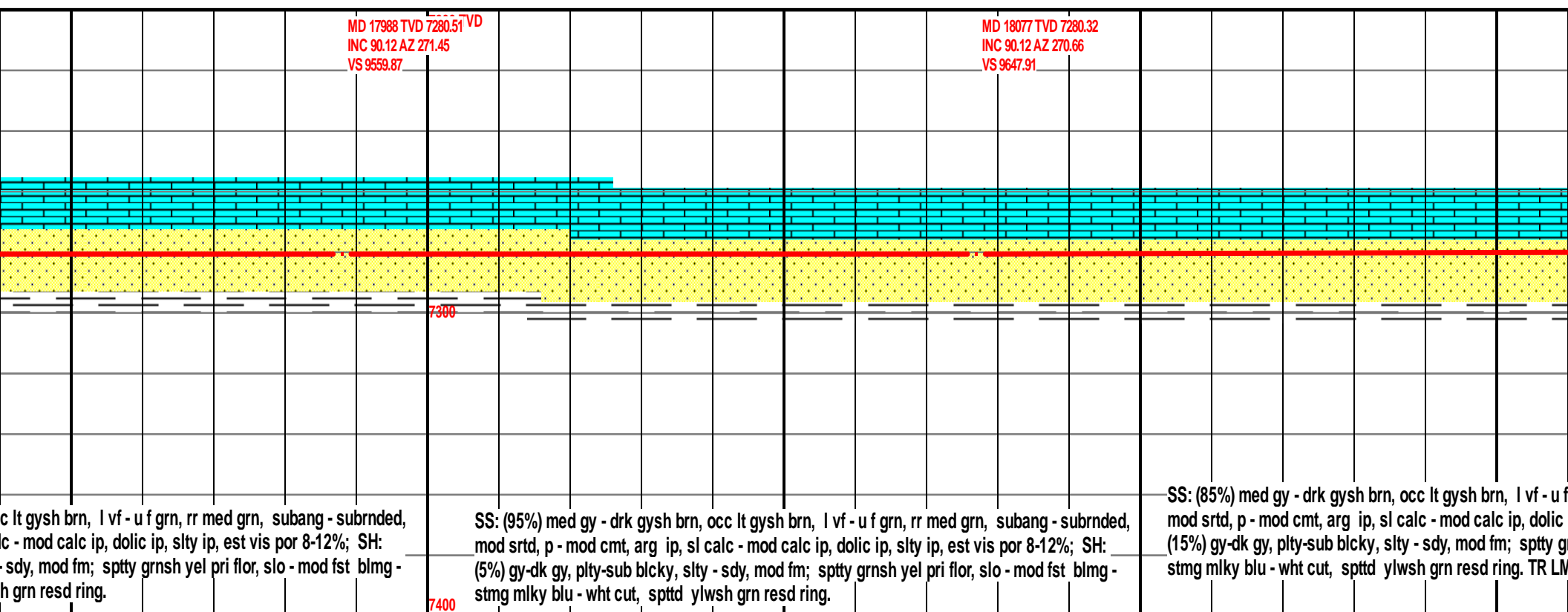
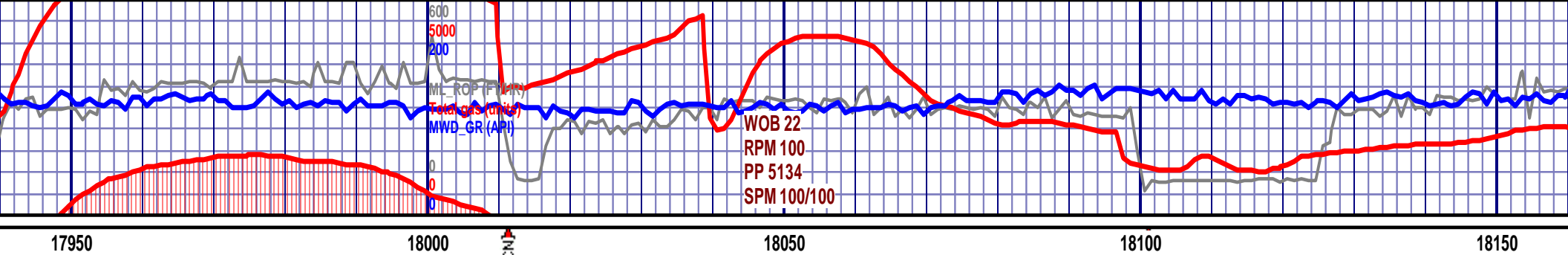


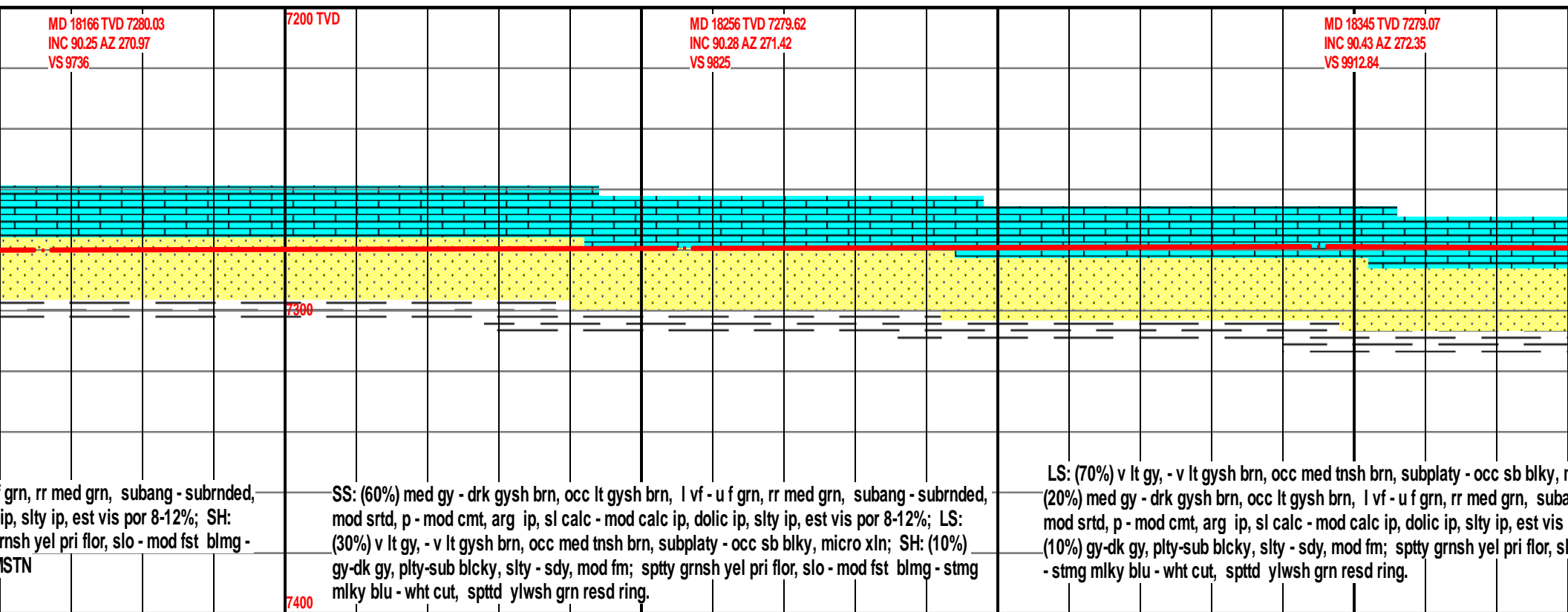


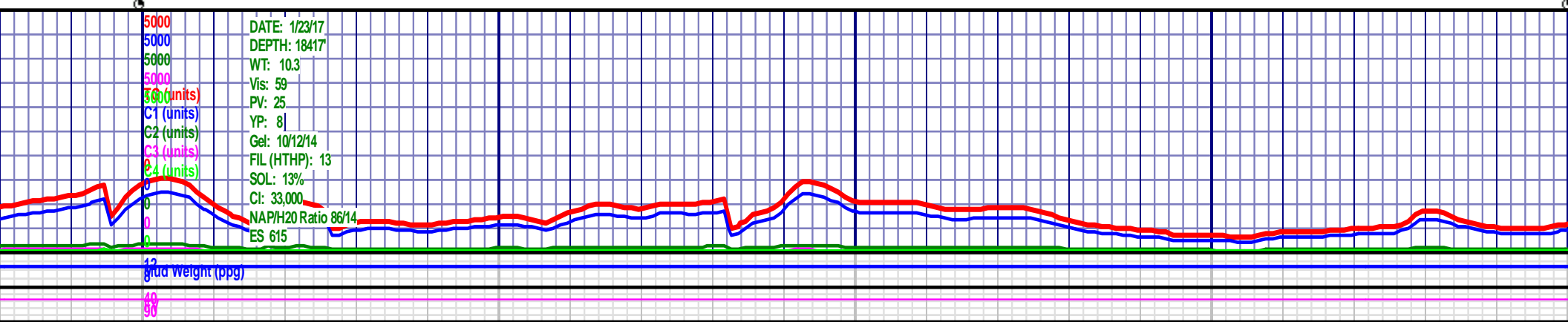
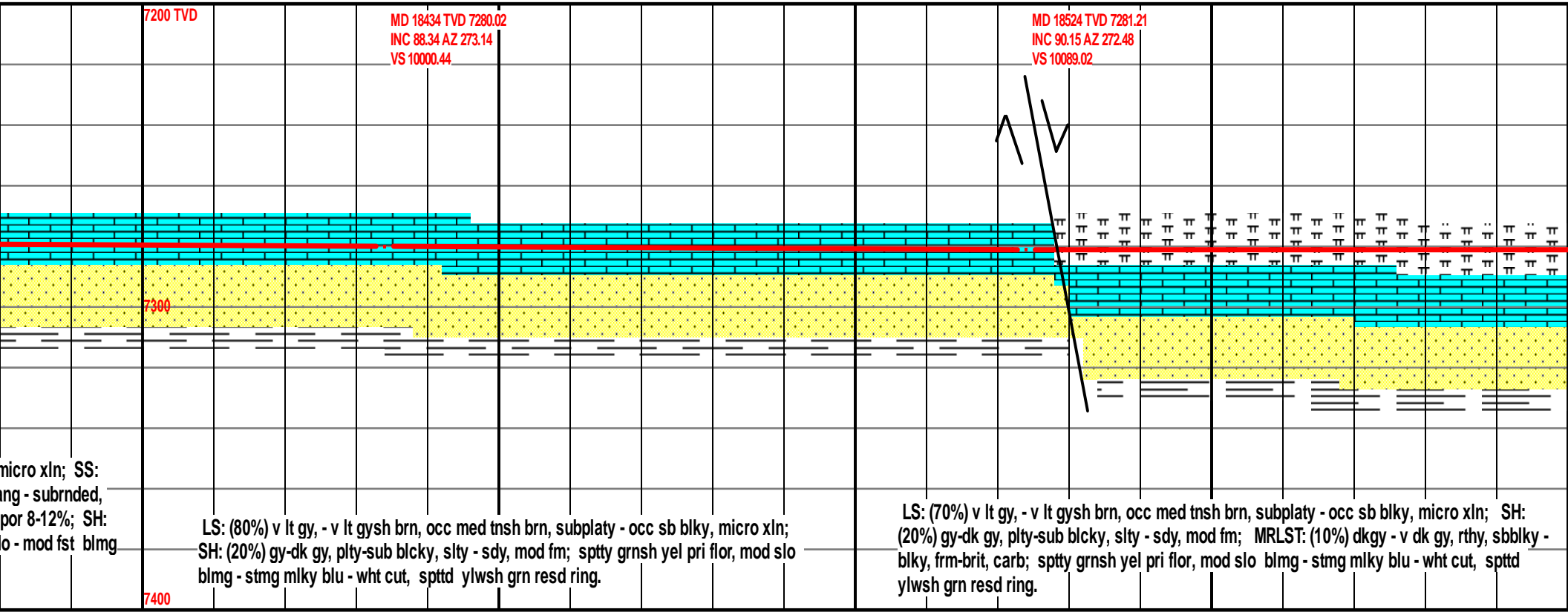
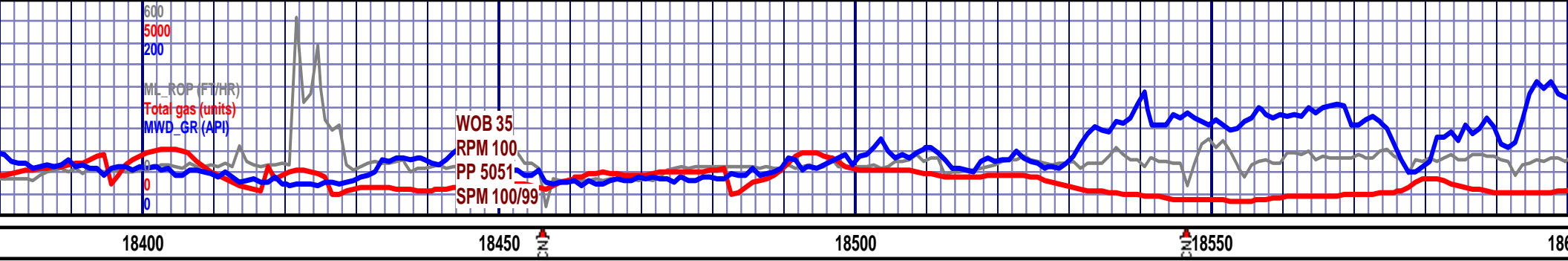


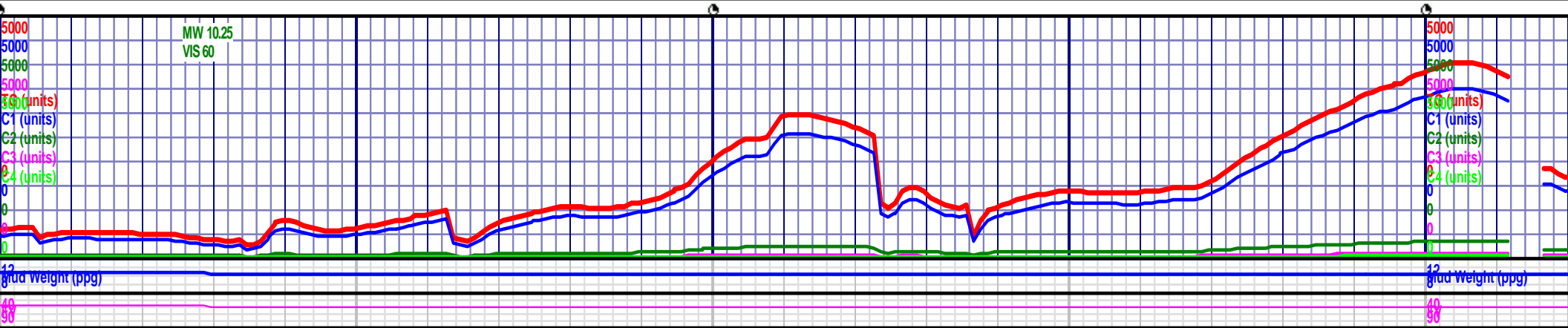
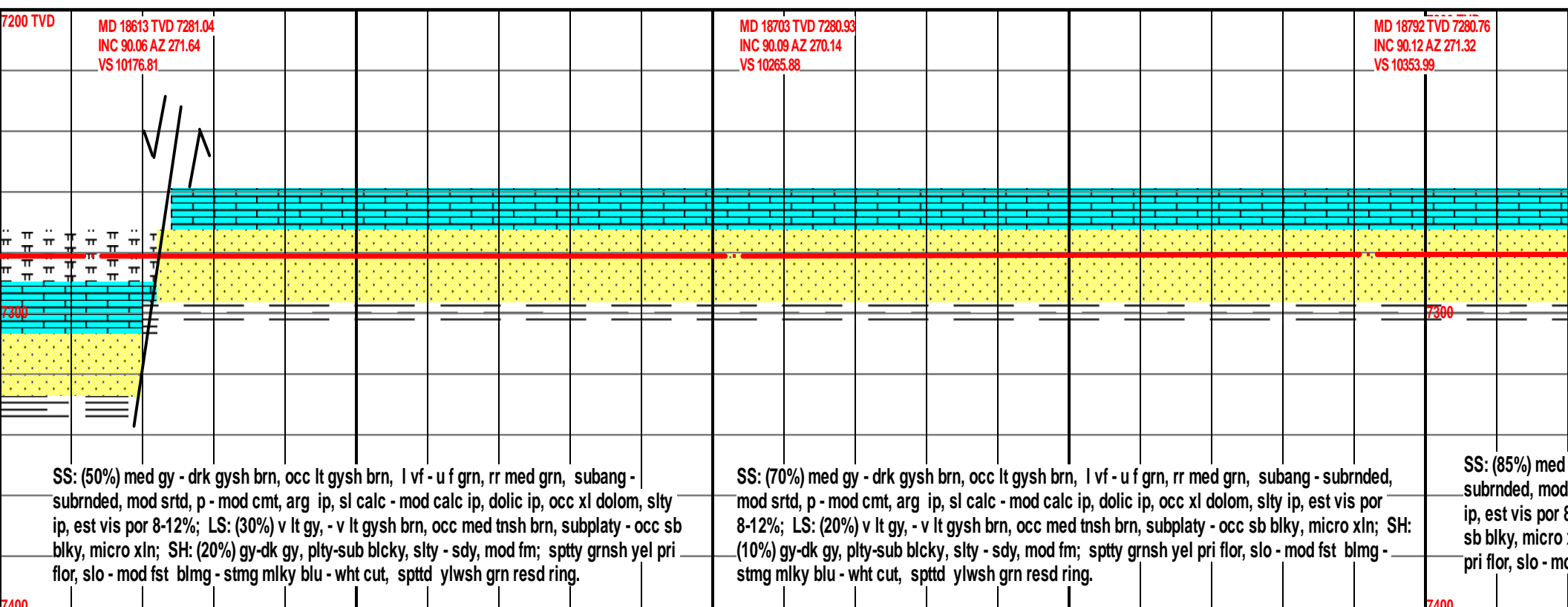
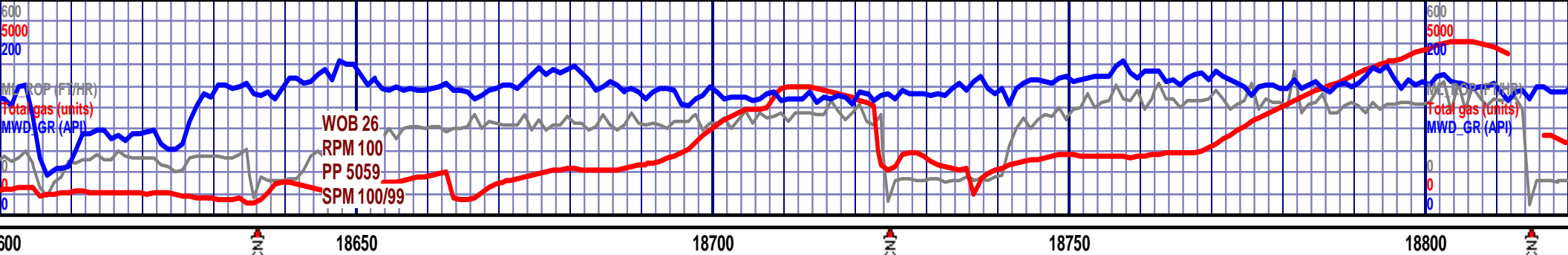


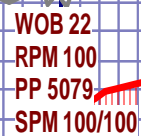












 19000

MD 18971 TVD 7280.48
INC 90.06 AZ 269.52
VS 10530.9

7300

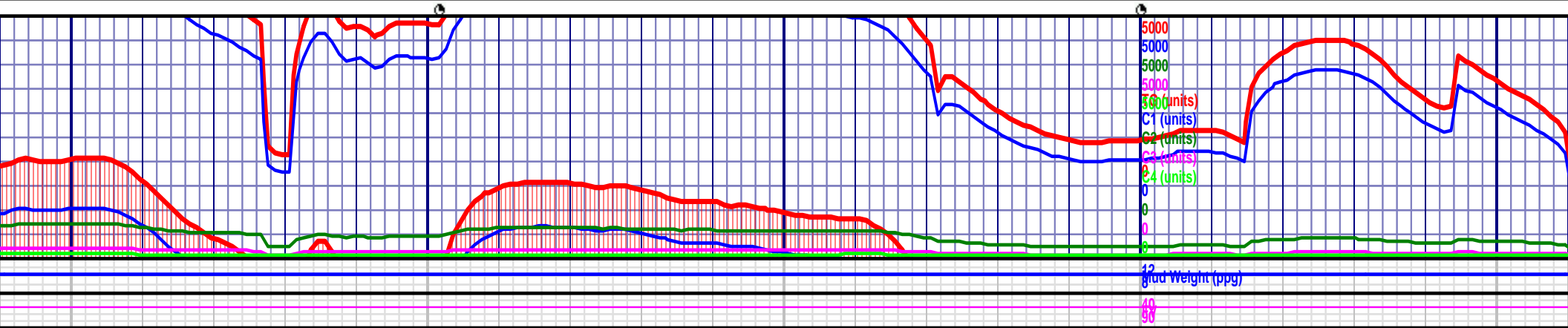
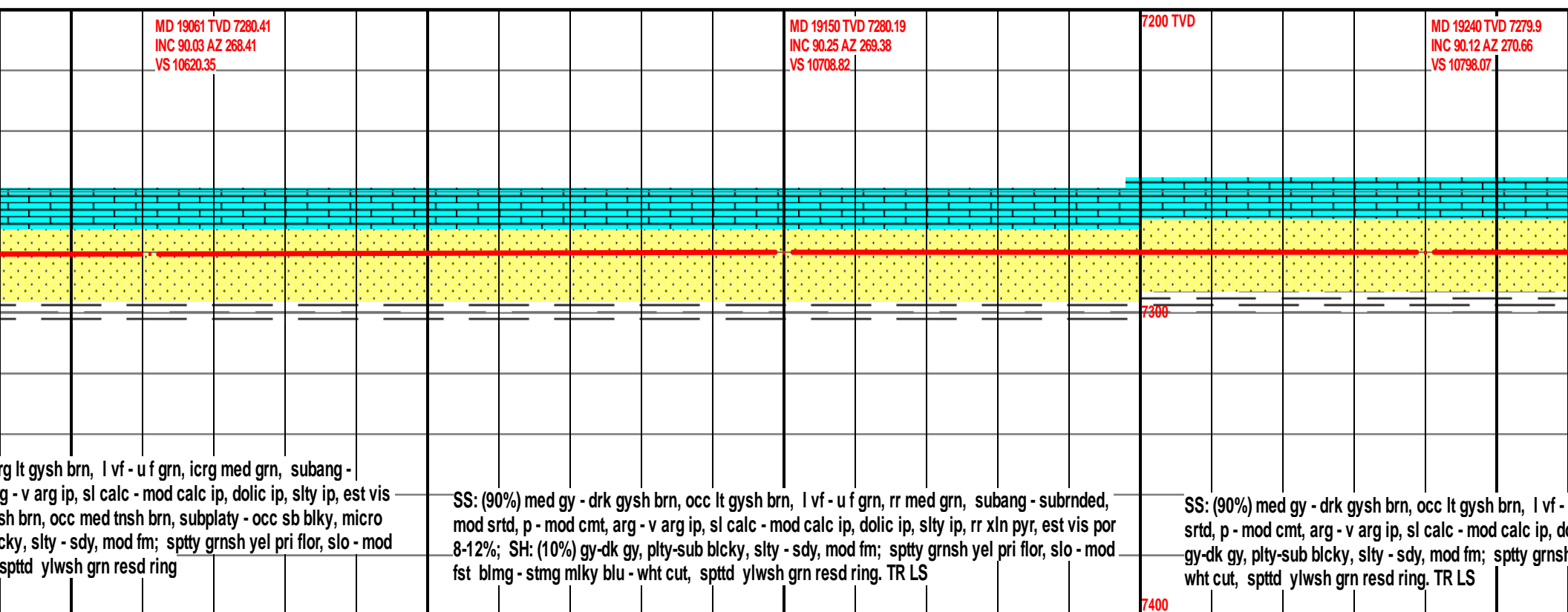
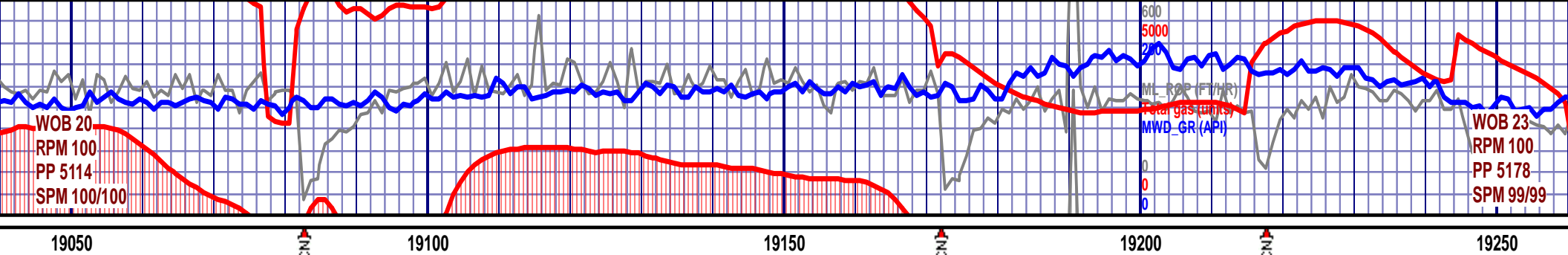
SS: (85%) med gy - drk gysh brn, rr lt gysh brn, l vf - u f grn, v rr med grn, subang - subrndd, mod srtd, p - mod cmt, arg - v arg ip, sl calc - mod calc ip, dolc ip, slty ip, est vis por 8-12%; LS: (5%) v lt gy, - v lt gysh brn, occ med tnsh brn, subplaty - occ sb blk, micro xln; SH: (10%) gy-dk gy, plty-sub blk, slty - sdy, mod fm; sptty grnsh yel pri flr, slo - mod fst blmg - stmg milky blu - wht cut, spttd ylwsh grn resd ring

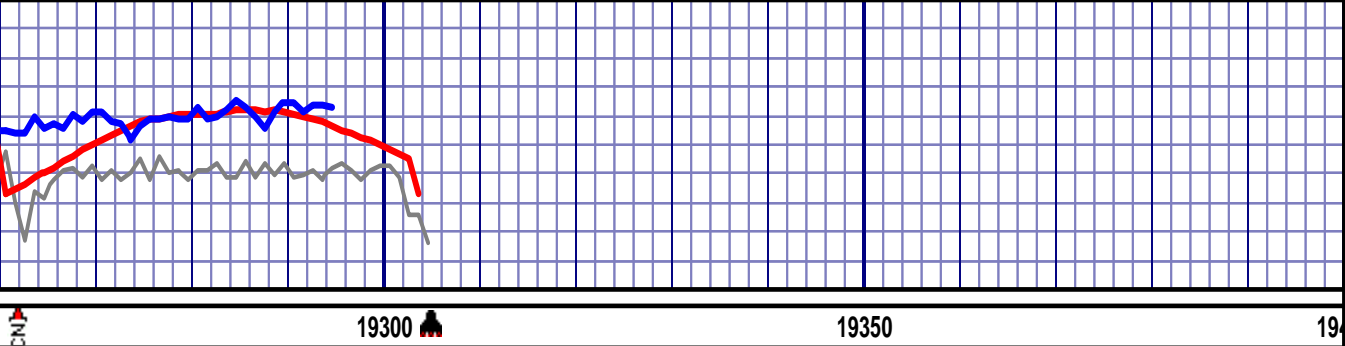
SS: (85%) med gy - drk gysh brn, ic
subrndd, mod srted, p - mod cmt, ar
por 8-12%; LS: (5%) v lt gy, - v lt gy
xln; SH: (10%) gy-dk gy, plyt-sub bl
fst blmg - stmg mlky blu - wht cut,

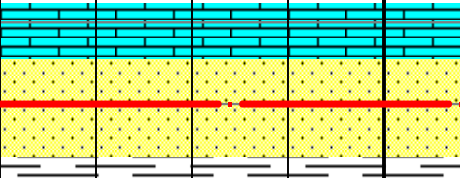


12
Fluid Weight (ppg)

40
80
90





MD 19284 TVD 7279.83 INC 90.06 AZ 270.35 VS 10841.65		MD 19308 TVD 7279.81 INC 90.06 AZ 270.35 VS 10865.44		BIT #3, 8.5", HCC, ATD505, Jets 5x15s, SN#: 7911611, Rotary Steerable Directional BHA, IN @ 14,969', ON 1/21/18, OUT ON 1/23/18 @ 19,308' MD, DRILLED 4338' IN 19.2 BIT HR.			
Final survey is a projection to the bit.							
				Formation Tops			
				MD	TVD	SSD	
TD of 19,308' MD reached at 10:50 on 1/23/2018. Casing ran to 19,289' on 1/25/2018				Sharon Springs	7167'	6900'	-2065'
				Niobrara A Chalk	7203'	6933'	-2098'
				Niobrara B Chalk	7361'	7061'	-2226'
				Niobrara C Chalk	7452'	7124'	-2289'
				Niobrara K Marker	7561'	7186'	-2351'
				Fort Hays	7632'	7216'	-2381'
				Codell	7698'	7237'	-2402'
u f grn, rr med grn, subang - subrndd, mod olic ip, slty ip, est vis por 8-12%; SH: (10%) n yel pri flor, mod fst blmg - stmg mlky blu -				Target Heel	7876'	7263'	-2428'
				Target Toe	19308'	7280'	-2445'

