

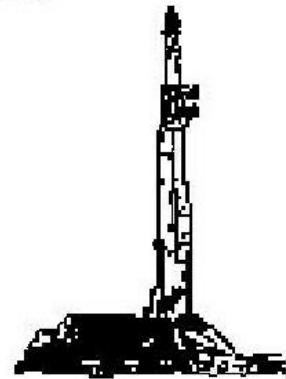
GOOLSBY BROTHERS and associates, inc.

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: DOVE 8C-13HZ

Location: Section 12 T2N R66W, Weld County, CO.

License Number: API: 05-123-35906; AFE: 2066598

Spud Date: June 7, 2013

Surface Coordinates: 365' FNL x 1356' FEL Sec 12 T2N R66W

Lat: 40.159163 N Long: -104.720701 W

Bottom Hole Coordinates: 2224' FNL x 855' FEL Sec 13 T2N R66W

Lat: 40.139754 N Long: -104.718983 W

Ground Elevation (ft): 4970

K.B. Elevation (ft): 4995

Logged Interval (ft): 6,852'

To: 14547'

Total Depth (ft): 14547'

Formation: Pierre Shales / Sands/Niobrara/Fort Hays/Codell

Type of Drilling Fluid: LSND (Polymer-Water)

Region: Wattenberg

Drilling Completed: June 15, 2013

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

OPERATOR

Company: Anadarko/Kerr-McGee Oil & Gas Onshore LP

Address: Granite Tower - 1099 18th St, Ste 1800

Denver, CO 80202

CO Geologist, Tom Birmingham.

GEOLOGIST

Name: Marek Ciesnik/Steve Schindler
Company: Goolsby Brothers & Assoc. (GBA), Inc. (www.goolsbybrothers.com)
Address: 575 Union Blvd.
Suite 208,
Lakewood CO. 80228

E-logs

MWD Gamma: 6,852' to TD.
MWD Resistivity (PRT): 7,747' to TD.

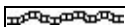
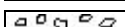
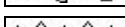
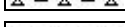

Casing


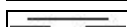
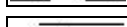
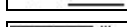

9 5/8" Surface Casing (IPSCO 36# J55) set @ 1,022'.
7" Intermediate Casing (IPSCO 26# P110) set @ 7,753'.
4 1/2" Production Liner set @ 14542'


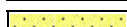
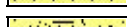
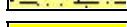

Comments

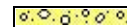
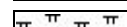
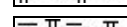
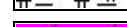

- 1) Drilling Contractor: H&P 311**
Pumps 1 & 2: Gardner Denver PZ 11 6" x 11" (.0914 bbl/stk)
Rig Manager: Jack Truett, James Baggett.
Drillers: Michael Munroe, Christopher Moore, Kenneth Jones, Christopher Beckstead.
- 2) Company Man:** Doug Blair, Irvin McWhorter, Rick Oman, Alan Secrest, David Wells,
- 3) Mud Company:** Halliburton, Justin Hessenthaler, Chance Galey.
- 4) Directional Drilling: Scientific Drilling**
Directional Drillers: John Noakes, Ian Ensell.
MWD: Joshua Denning, Mohamed Sharker, Mark Smith.
- 5) Gas Equipment: Mudlogging Systems Inc.**
by Terra Services
Redbox # ML-419

ROCK TYPES

 Bent
 Brec
 Cht
 Clyst
 Coal

 Anhydrite
 Shale
 Sh (col)
 Silty sh
 Carb sh
















 Carb sh_
 Ss
 Arg ss
 Ss (f gr+)
 Sltst














 Congl
 Mrlst
 Mrlst/sh (intbdd)
 Dol
 Lmst

 Marly limestone
 Arg limestone
 Chalk
















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

 Anhy
 Arg
 Bent
 Coal
 Dol
 Ls
 Chlk
 Mrst






 Ss strg
 Sltst strg

TEXTURE

 Boundst
 Chalky
 Cryxln
 Earthy
 Finexln
 Grainst
 Lithogr
 Microxln
 Mudst
 Packst
 Wackest


OTHER SYMBOLS






SAMPLE SHOWS

 Even
 Near even
 Spotted/patchy
 Very spotty
 Questionable





 Dead

POROSITY TYPE

 Earthy
 Fenest
 Fracture

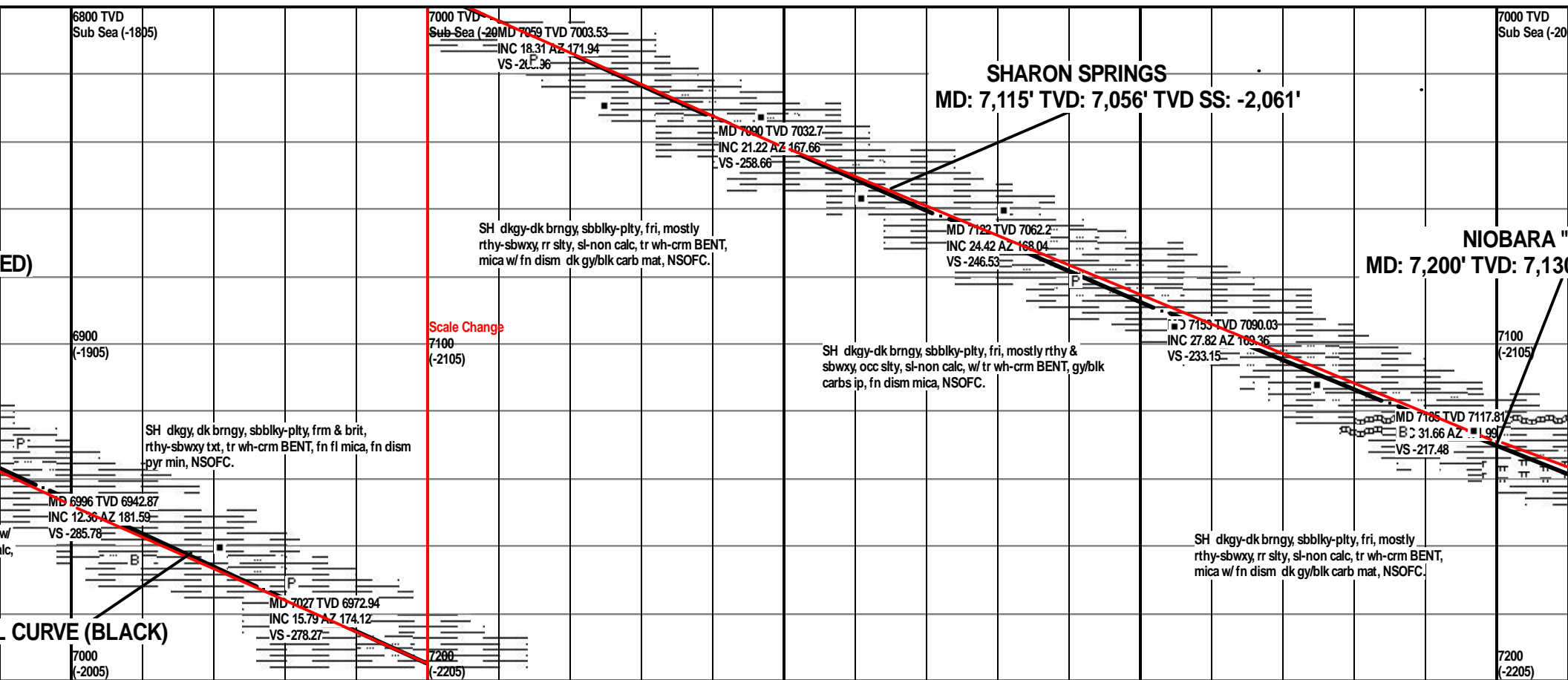
 Inter
 Moldic
 Organic
 Pinpoint
 Vuggy

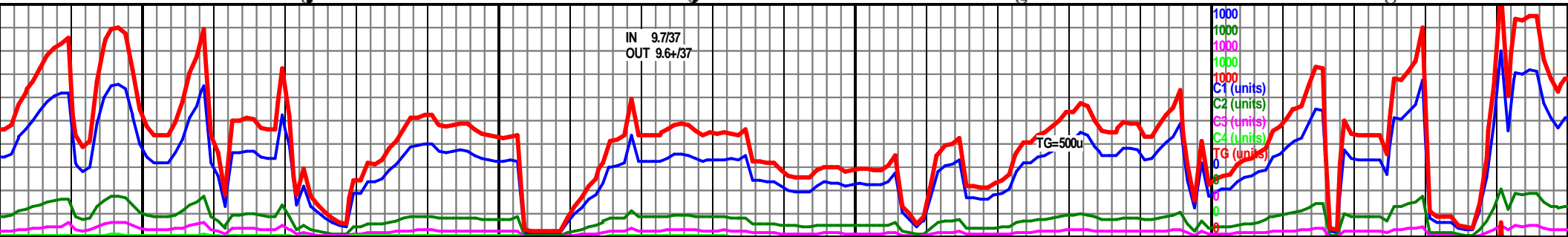
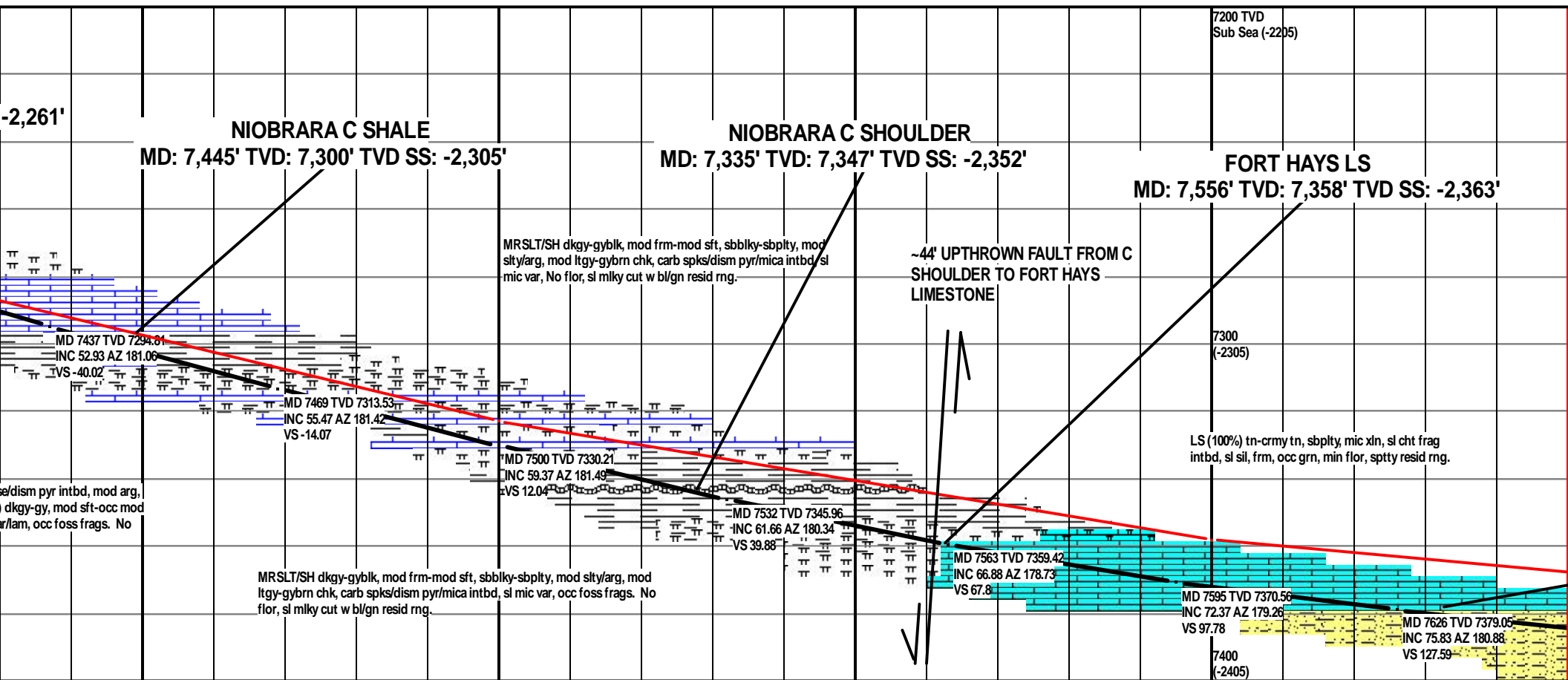
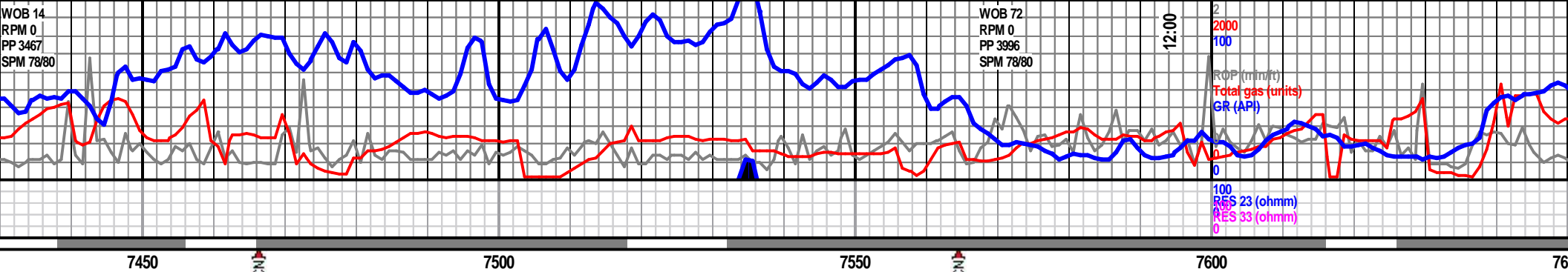
ROUNDING

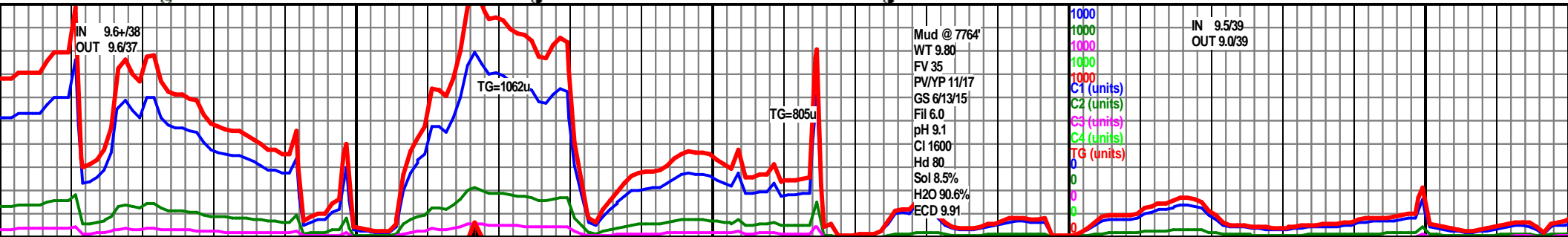
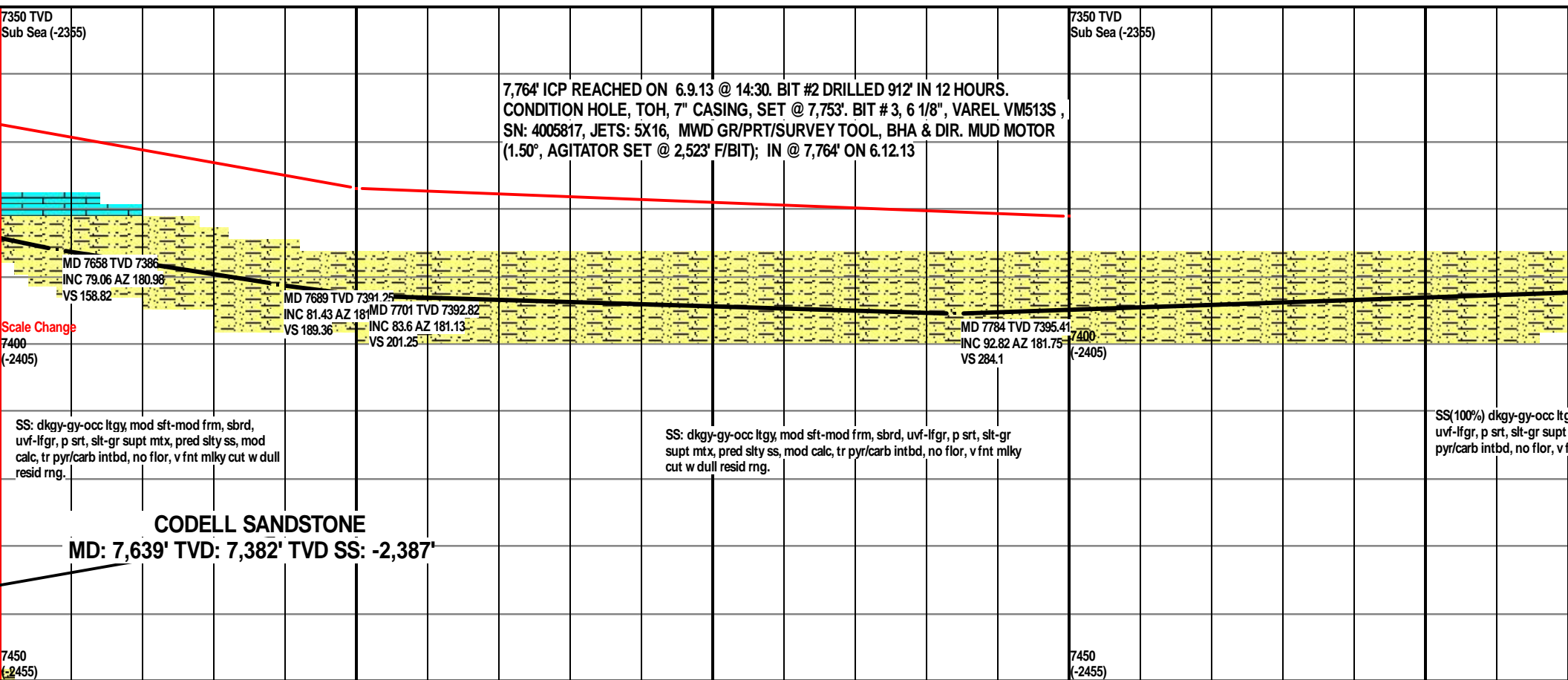
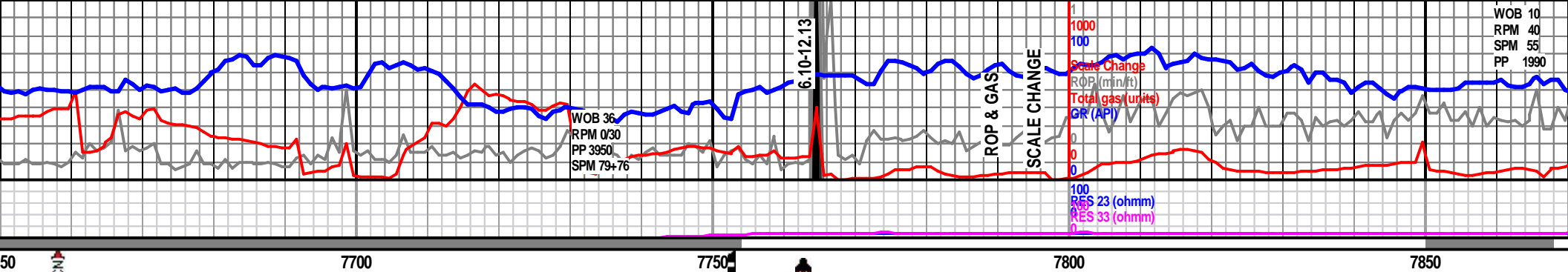
 Rounded
 Subrnd
 Subang
 Angular

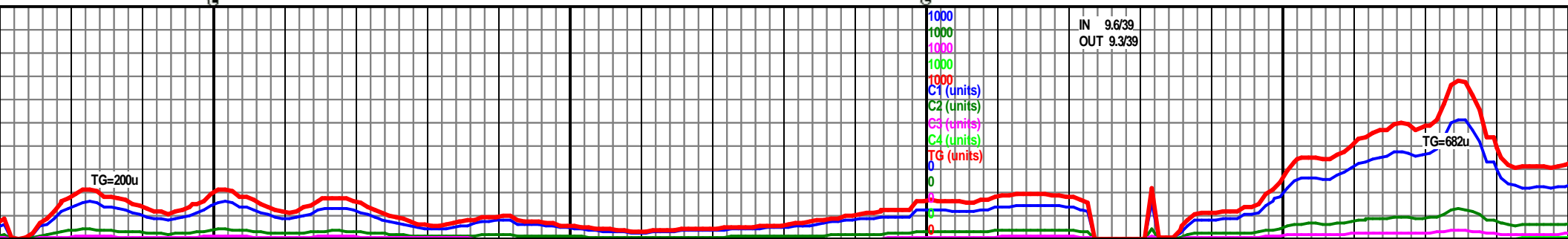
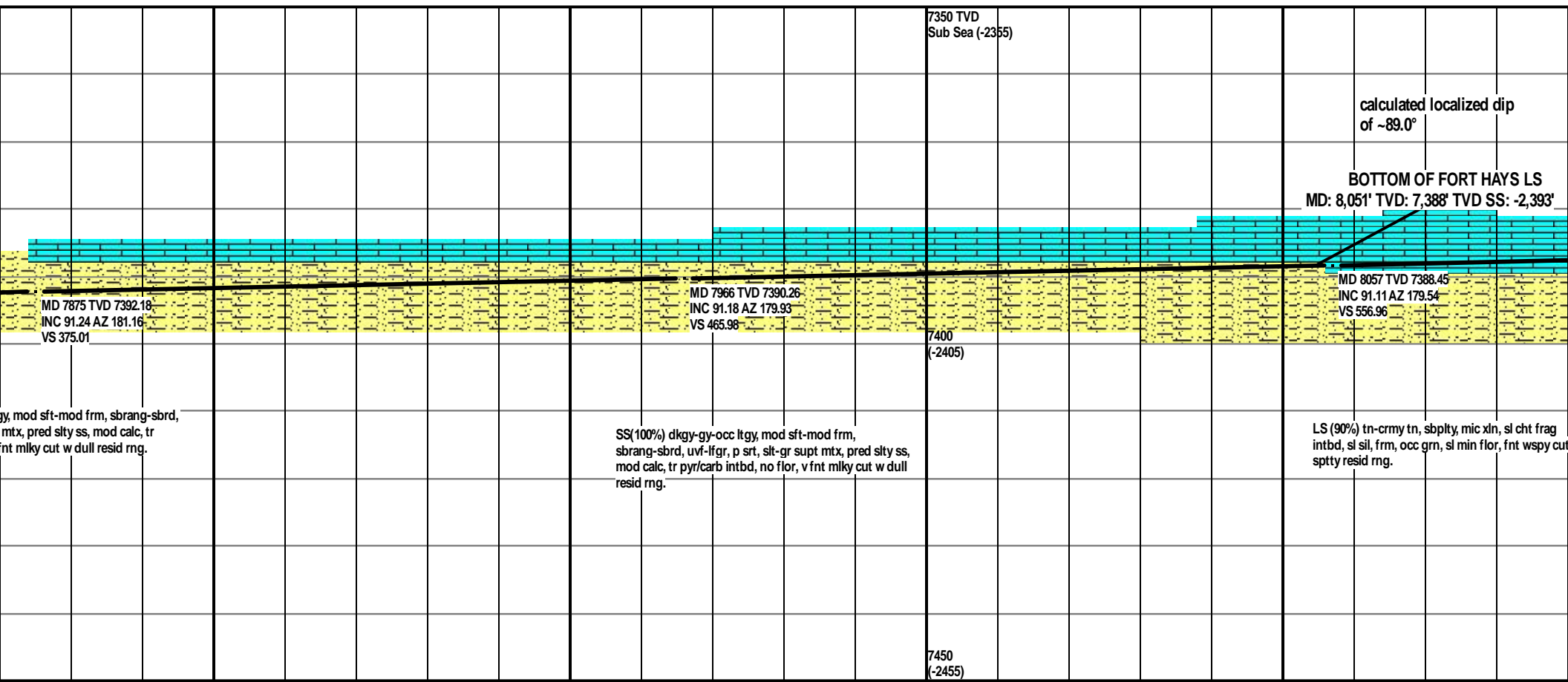
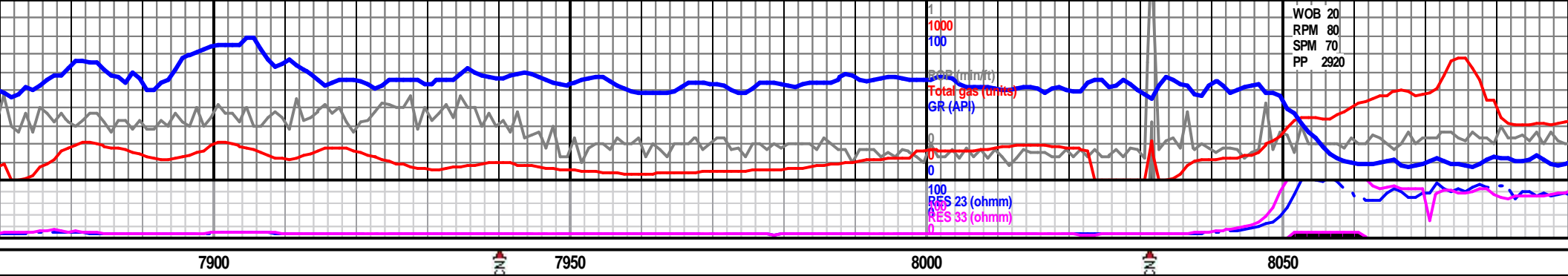
SORTING

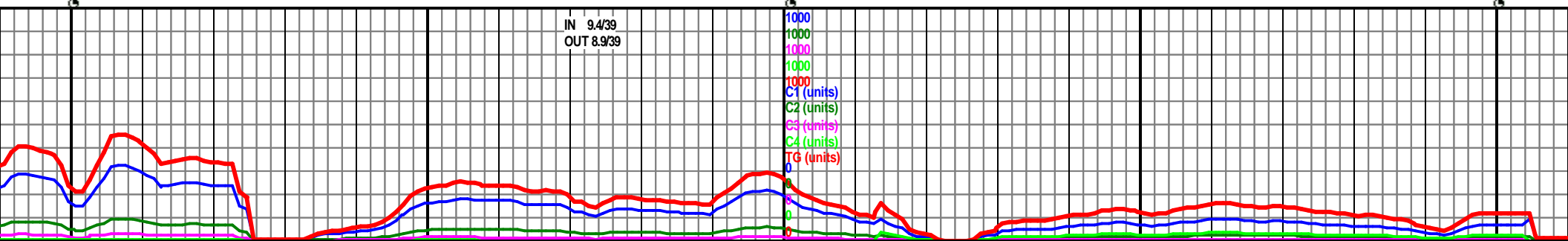
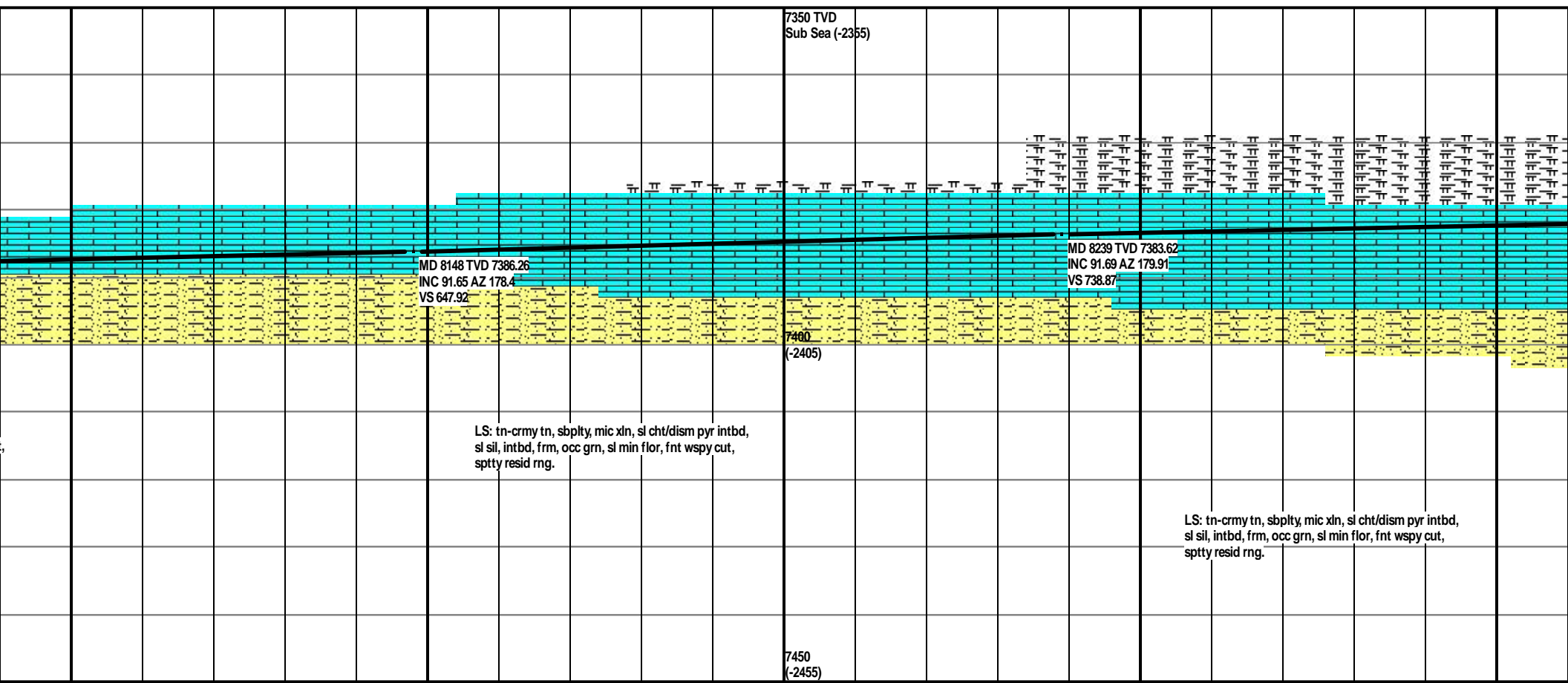
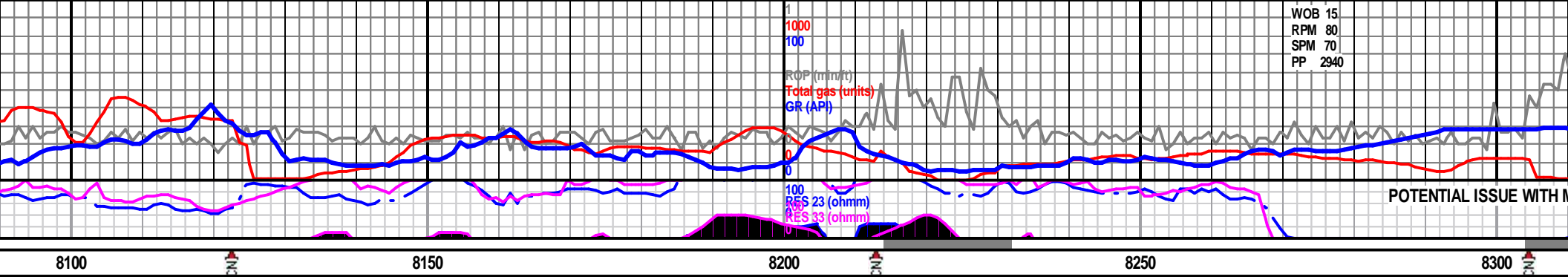
 Well
 Moderate
 Poor

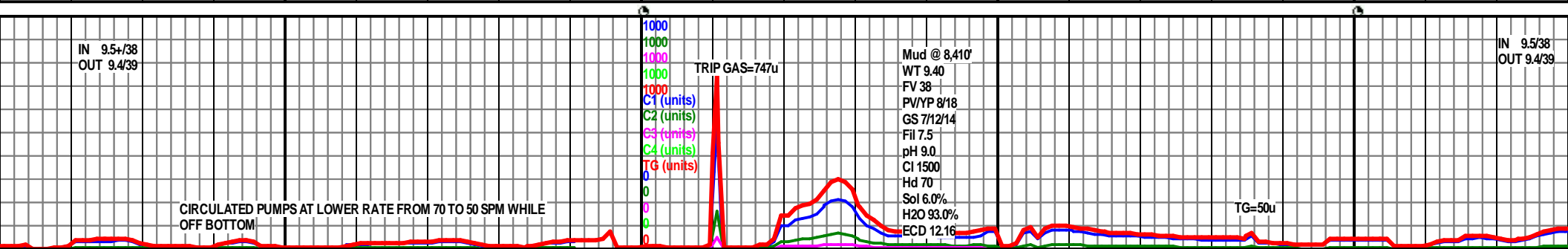
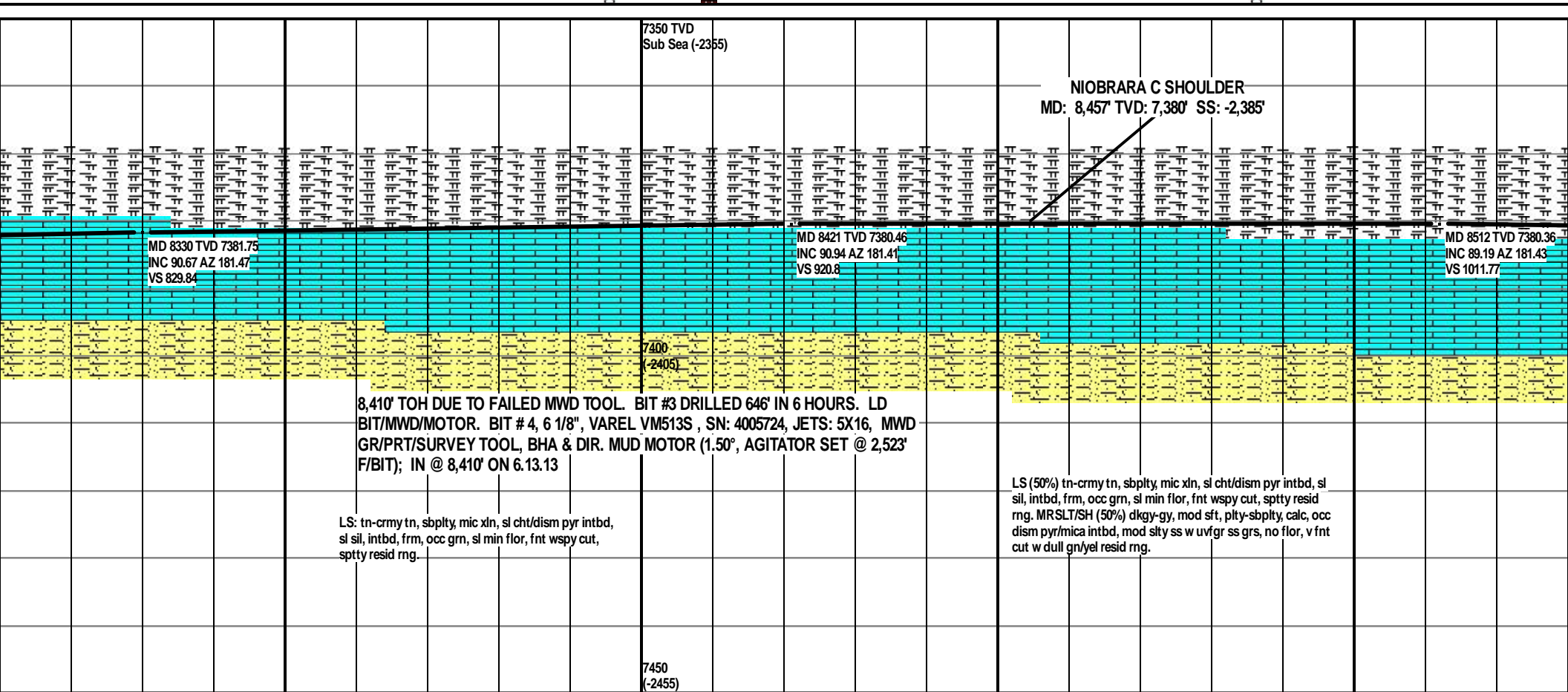
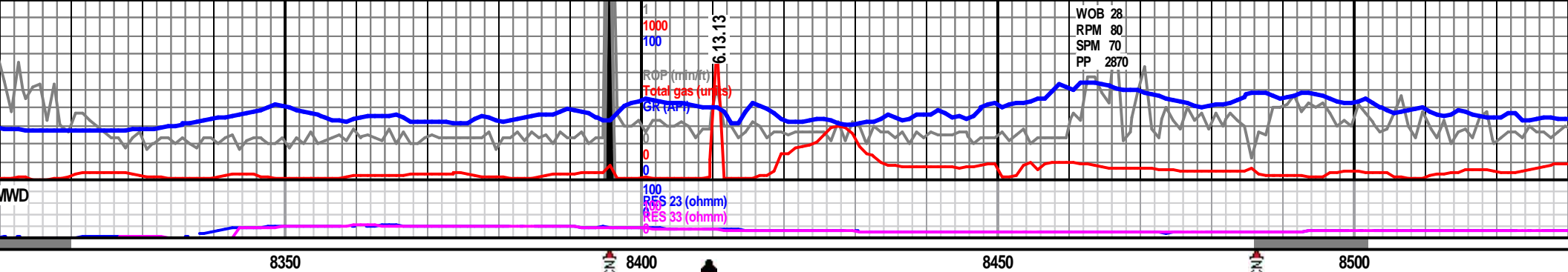




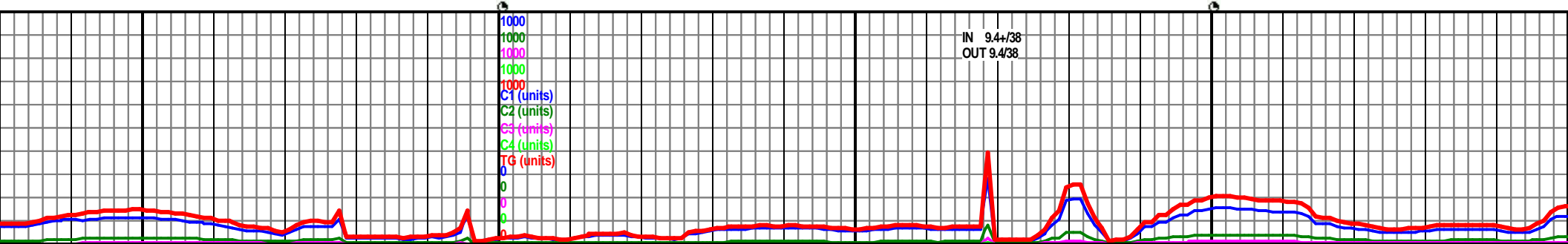
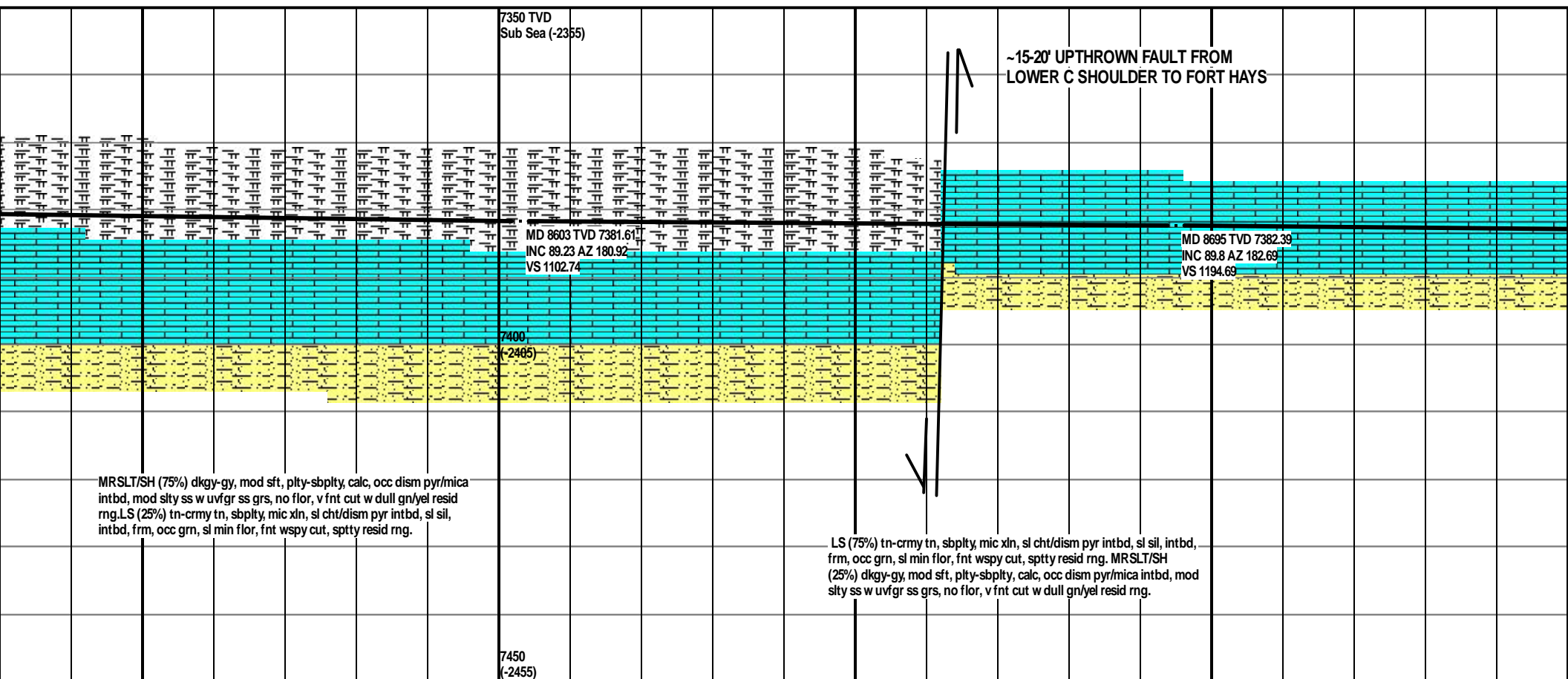
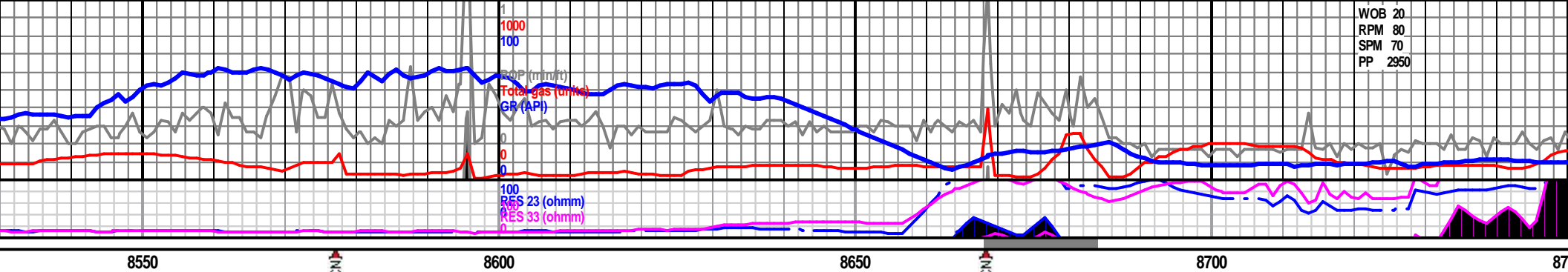


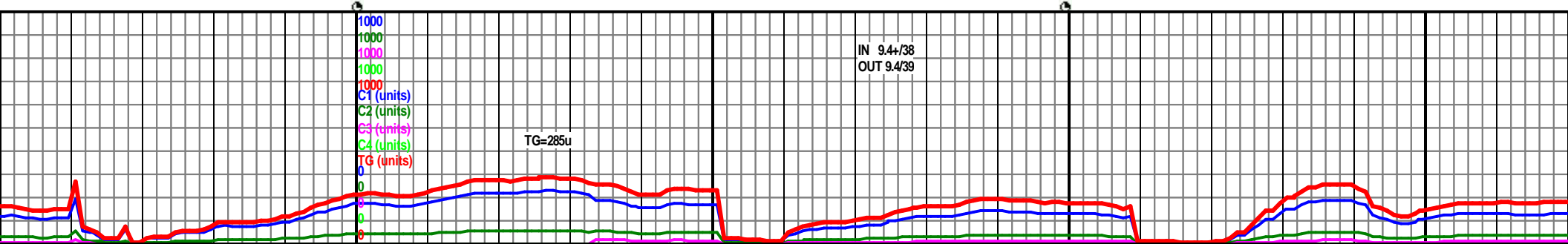
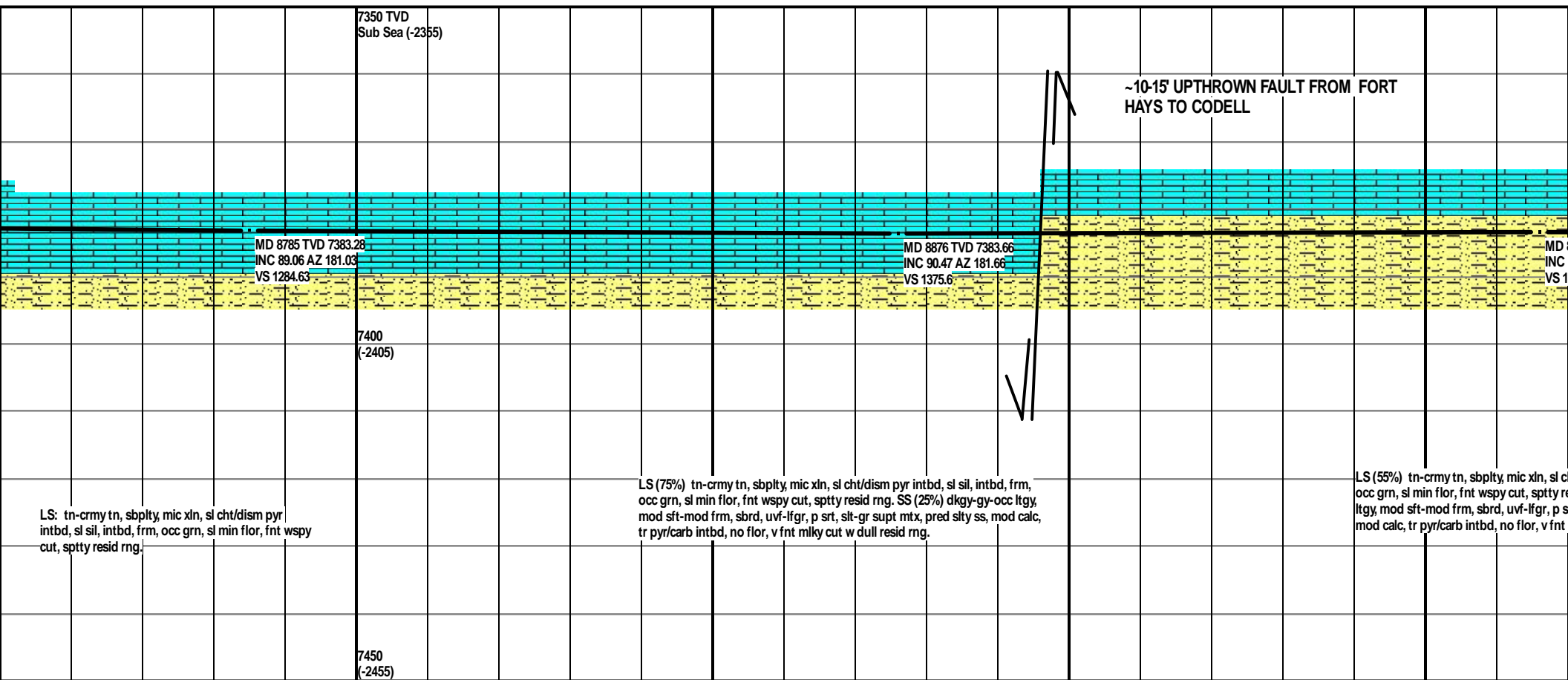
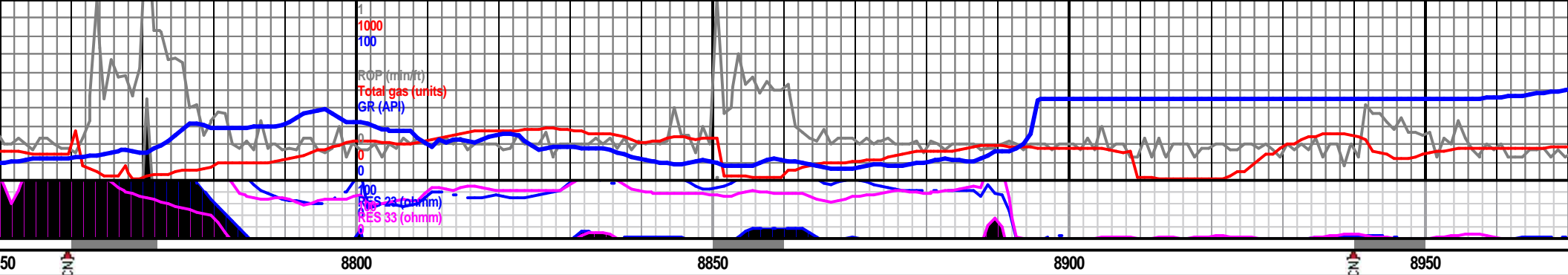


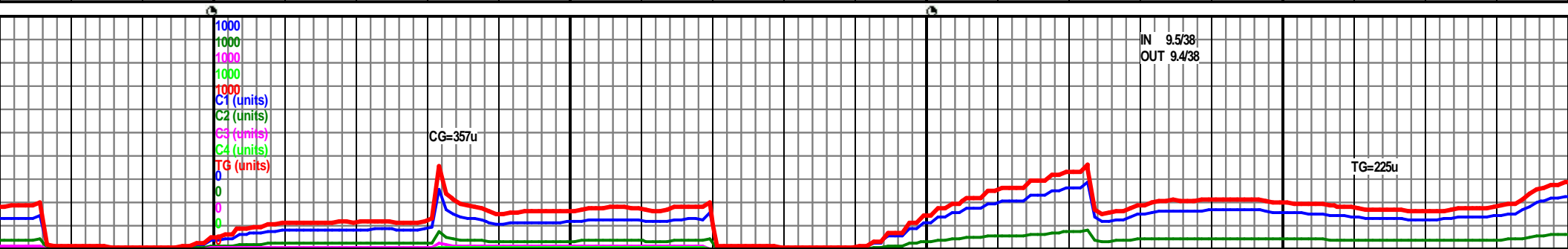
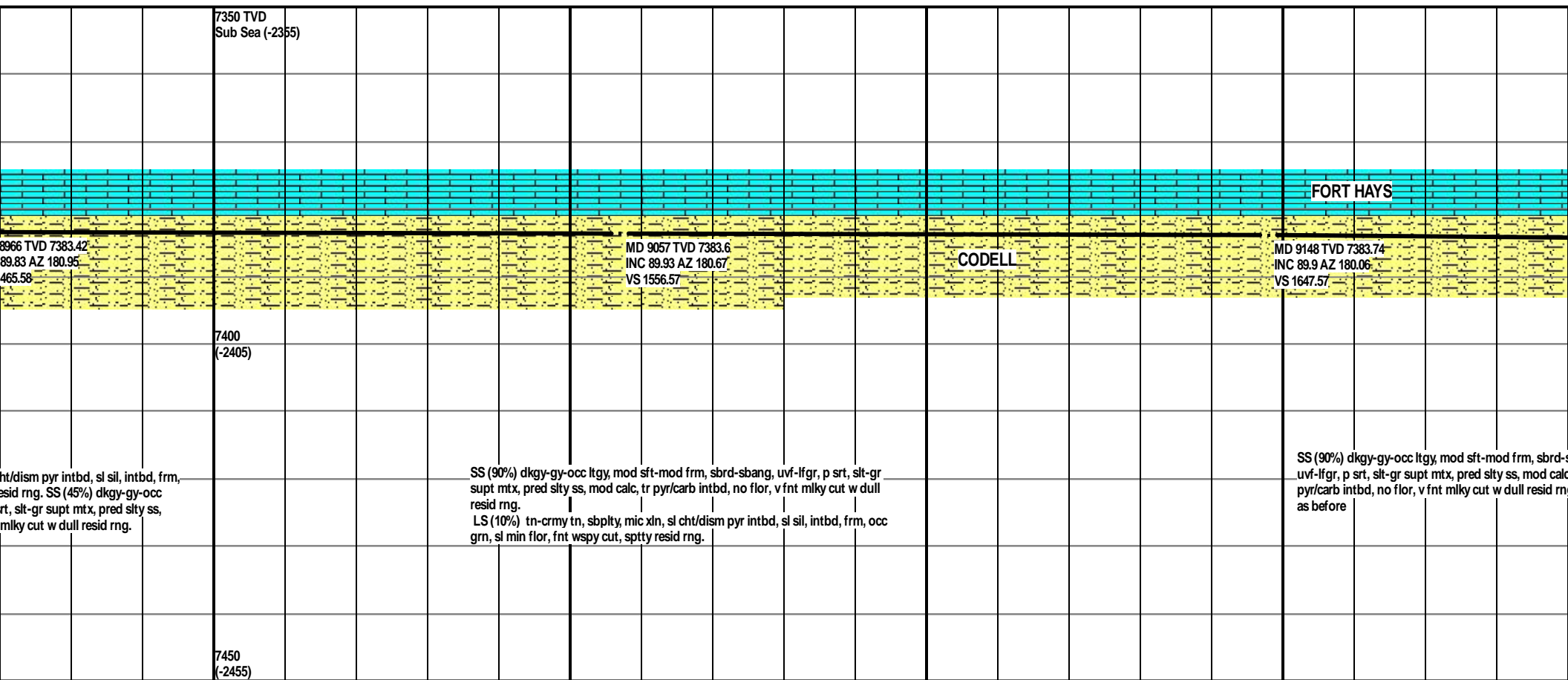
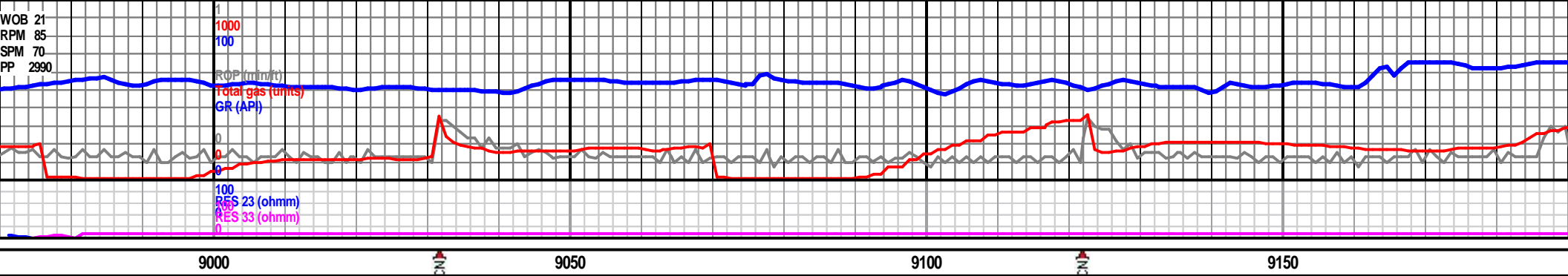


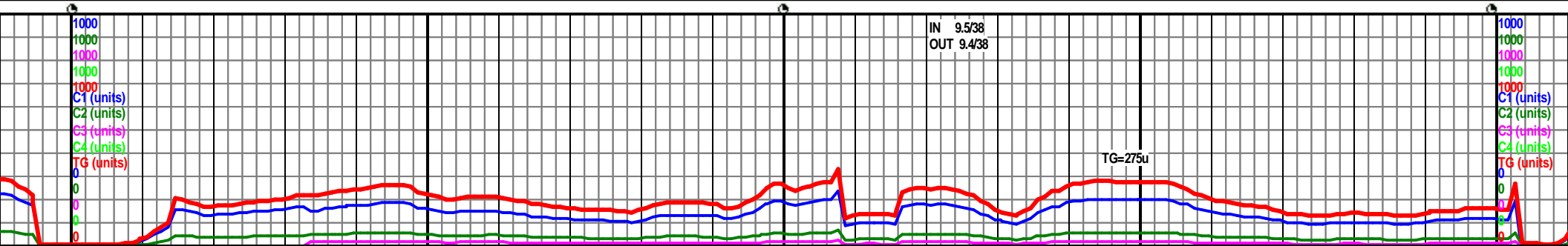
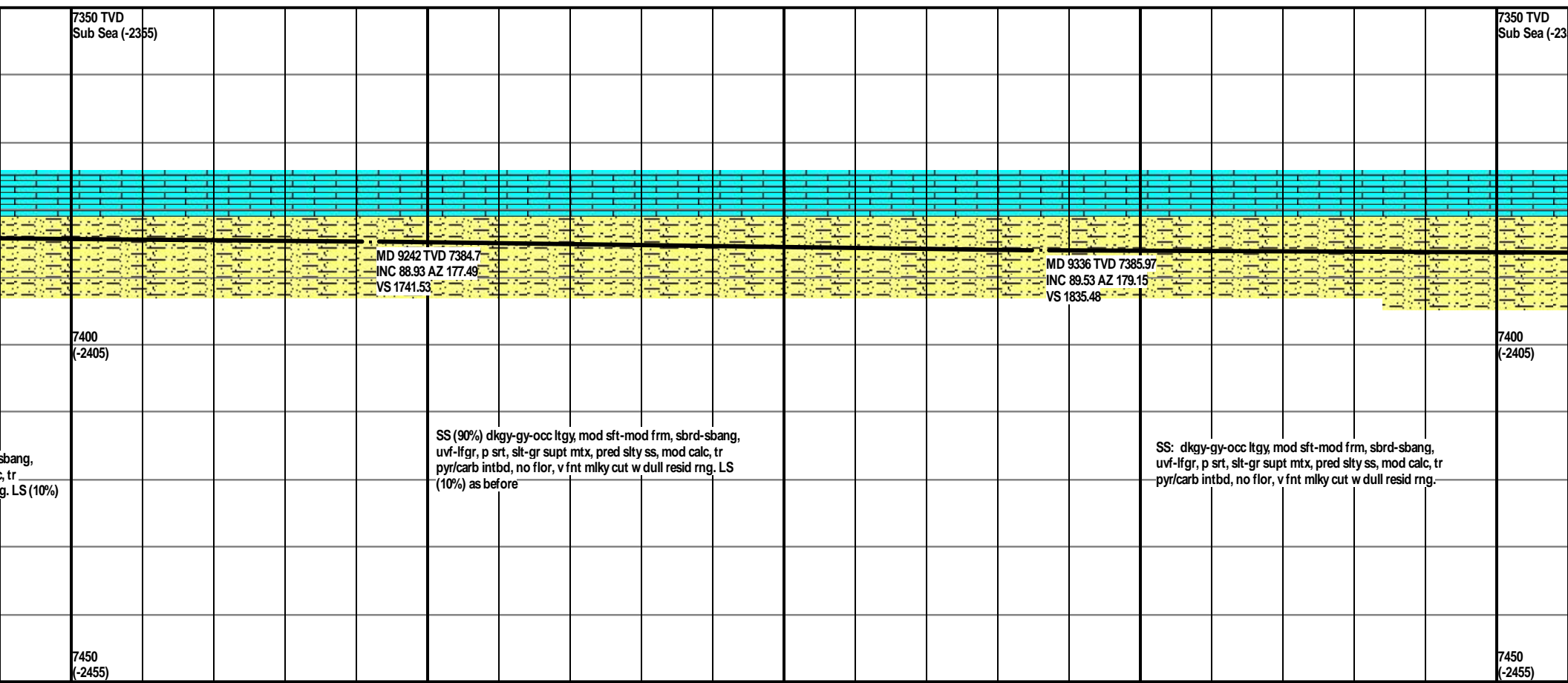
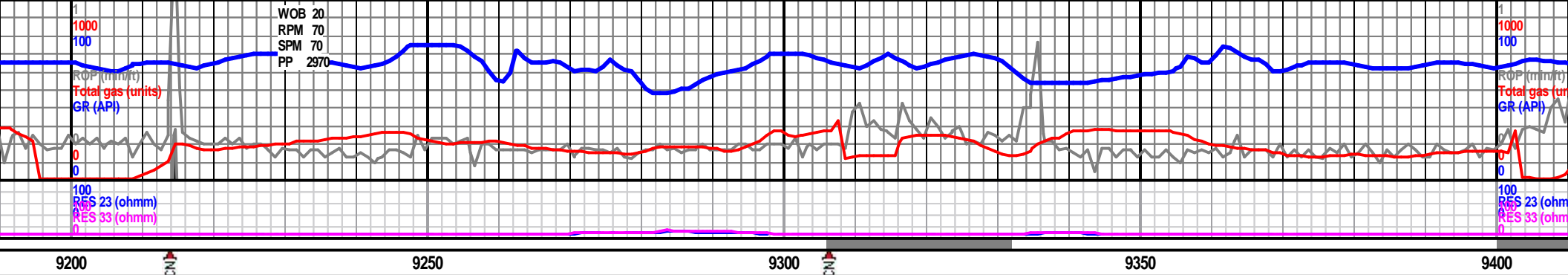


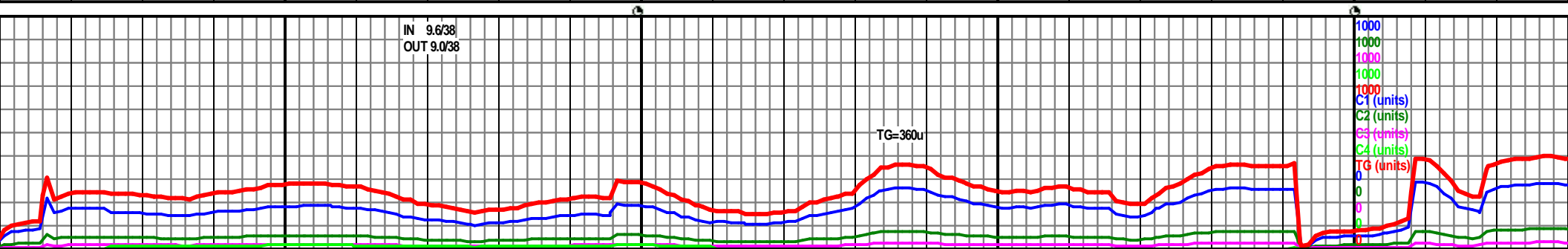
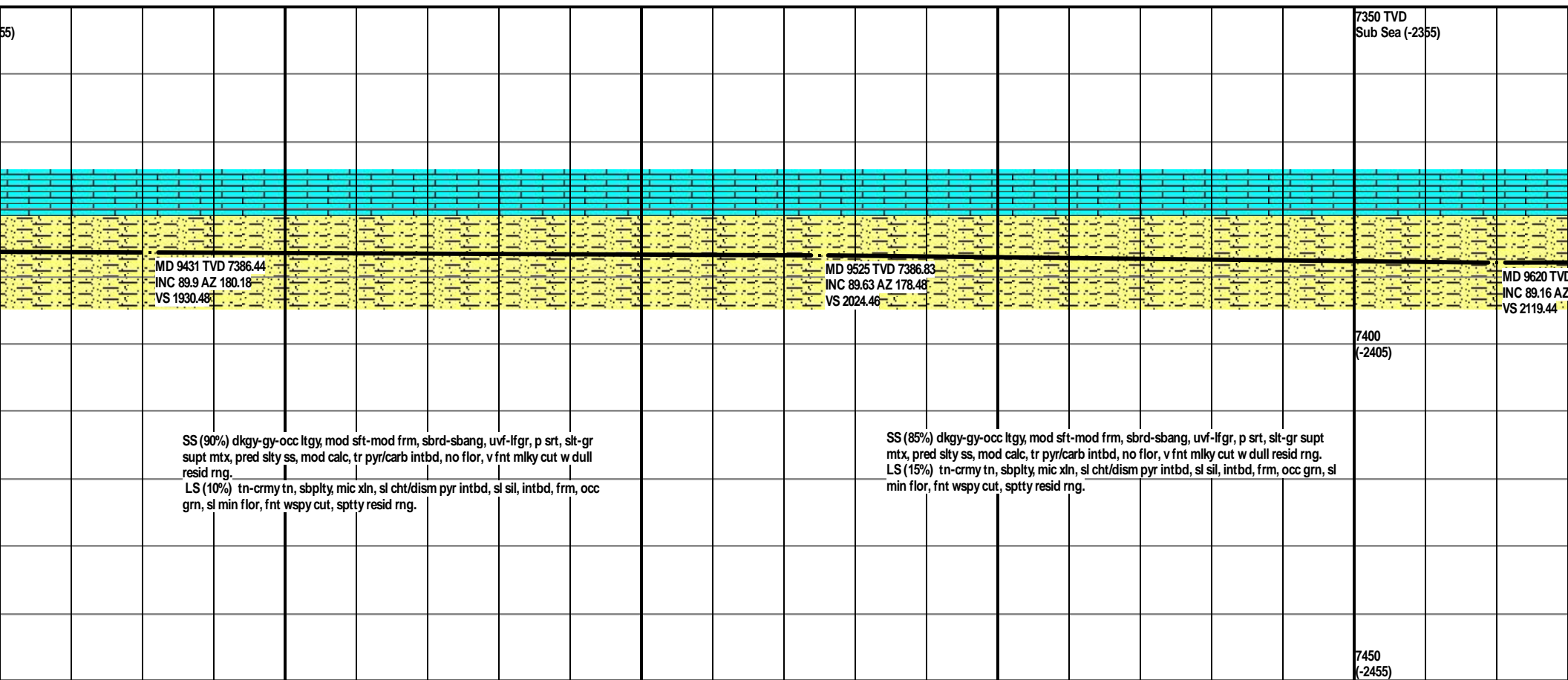
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RPM 80
SPM 70
PP 2950

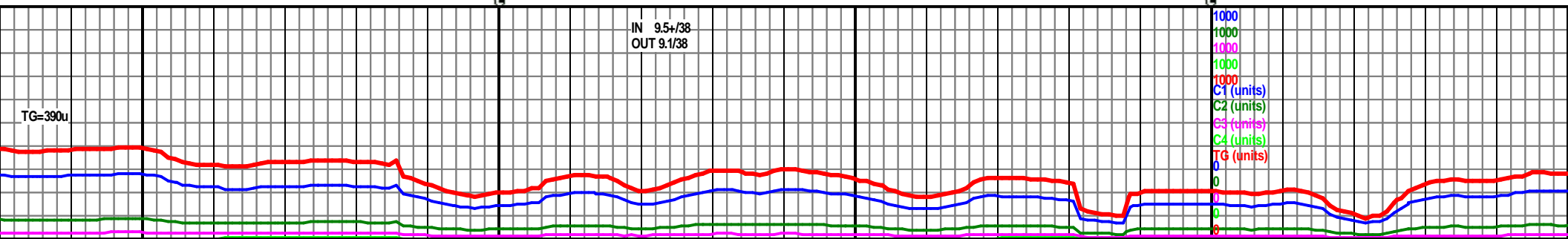
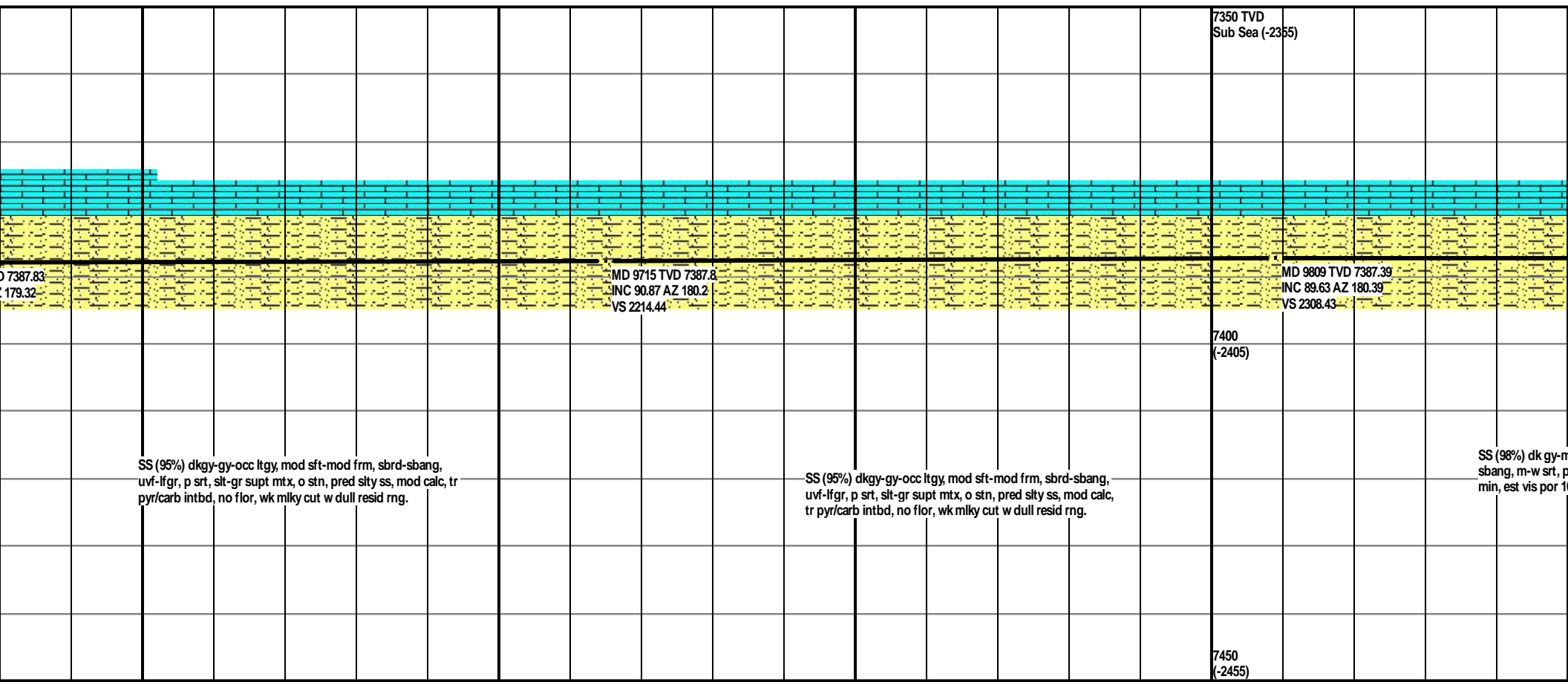
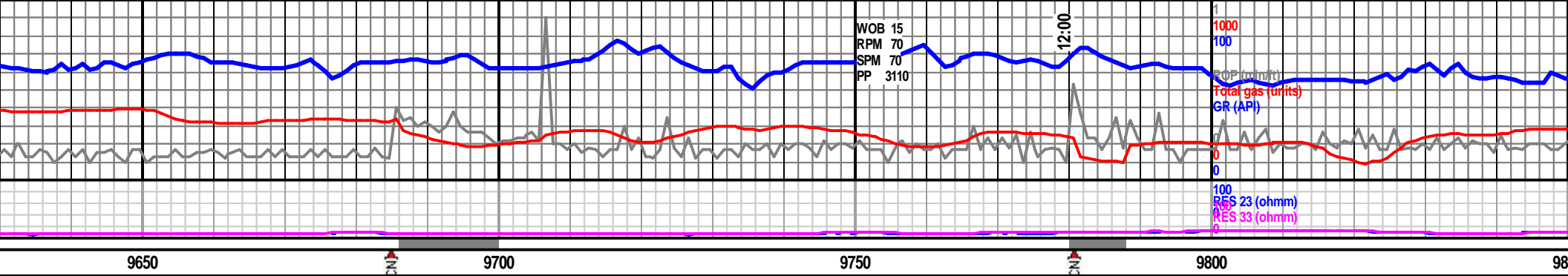


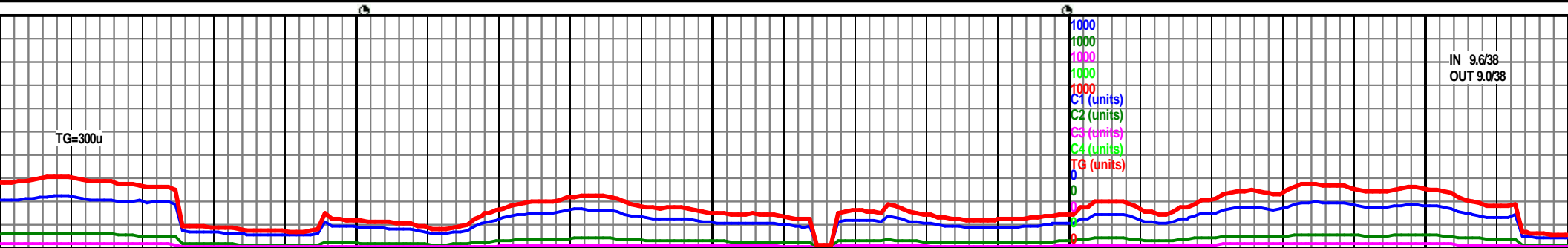
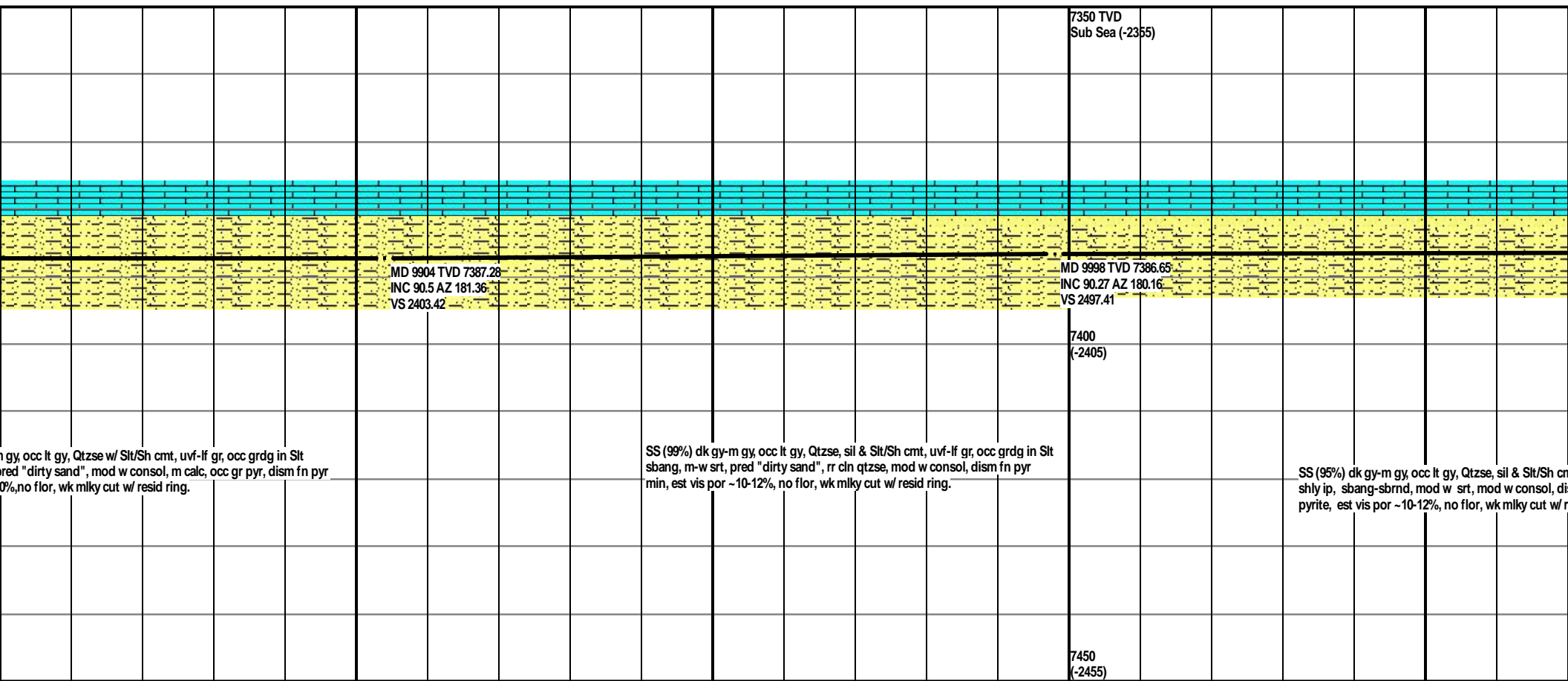
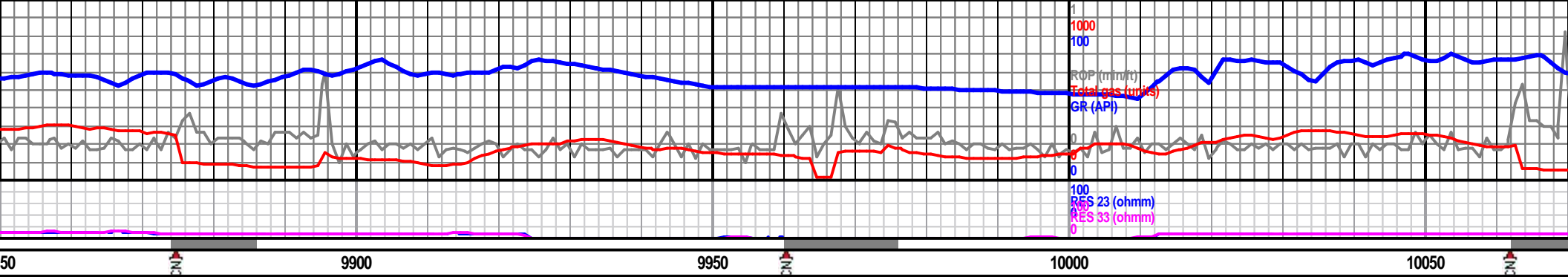


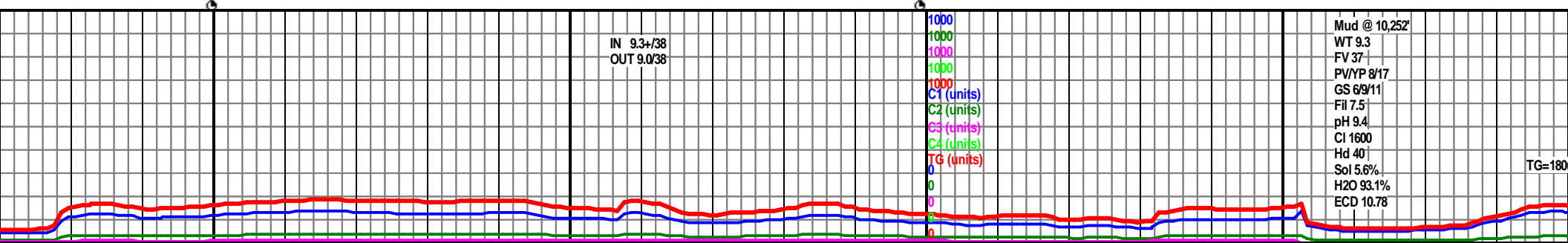
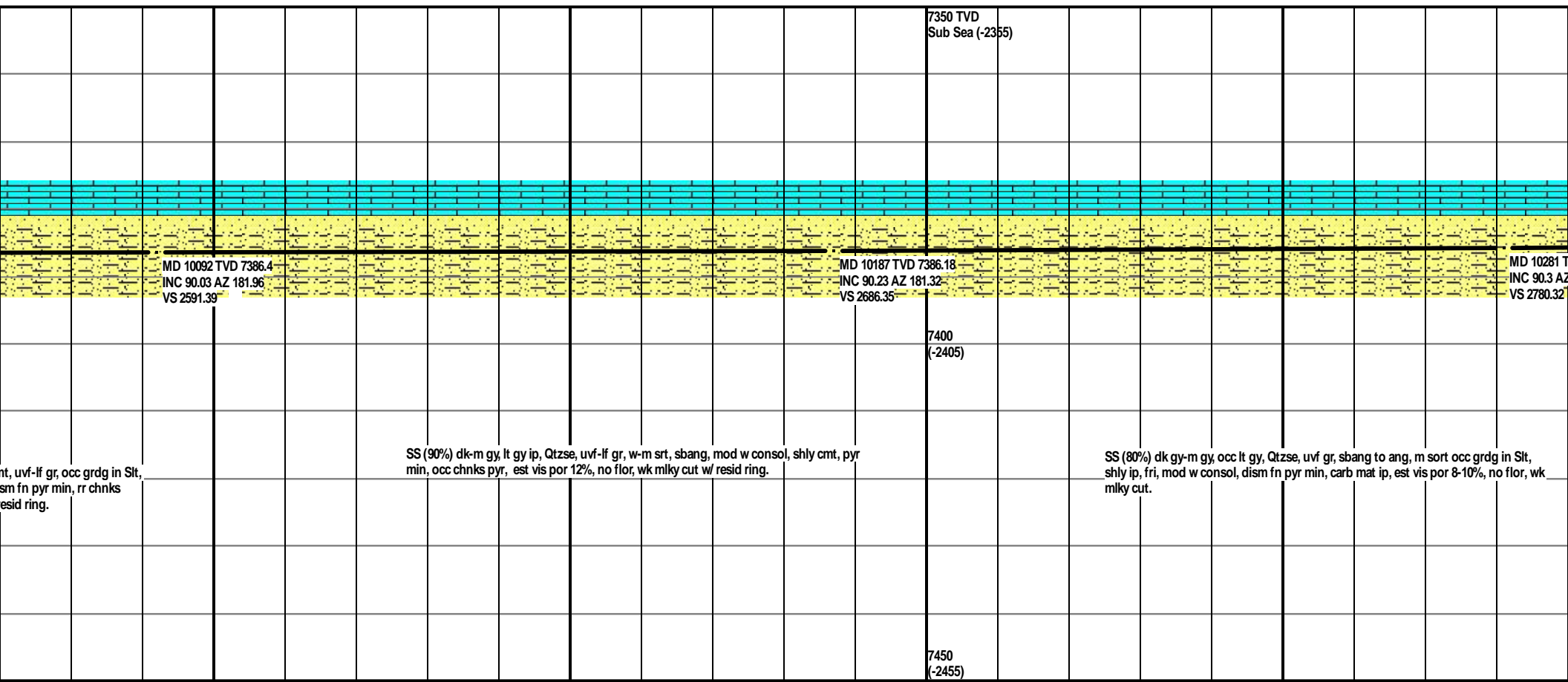
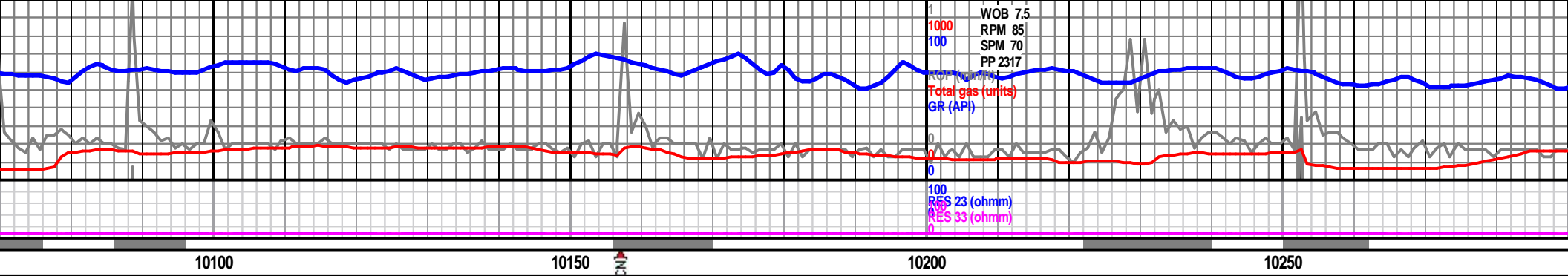


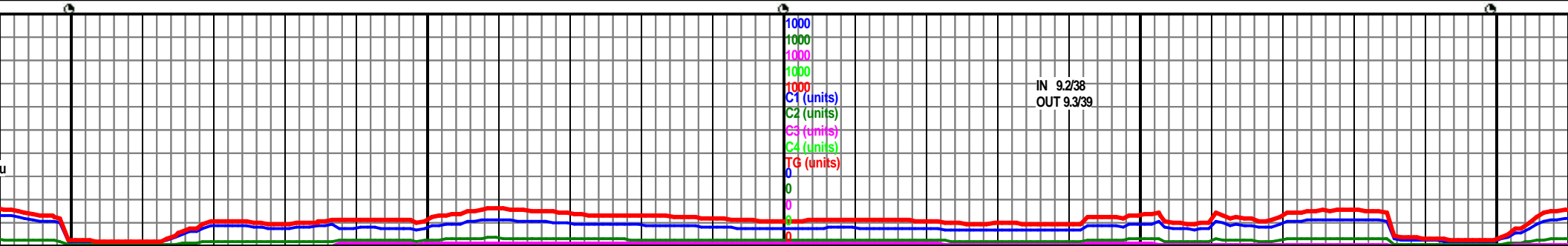
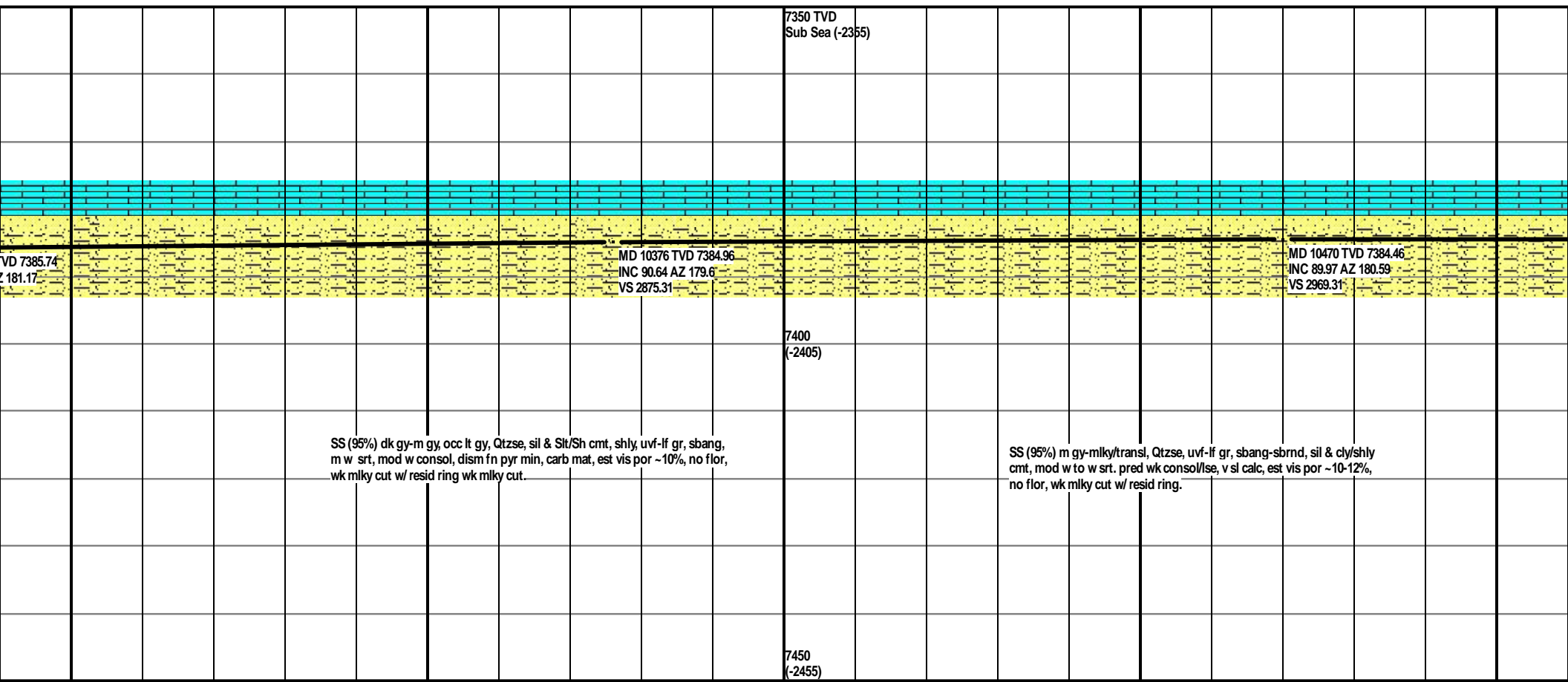
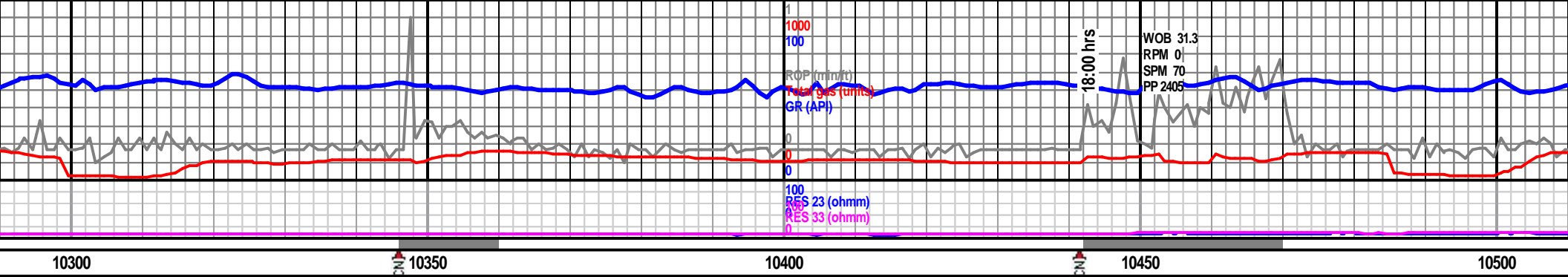


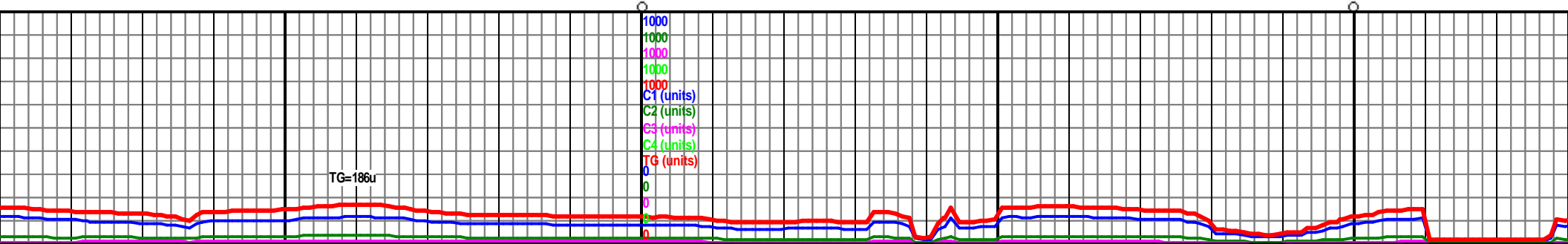
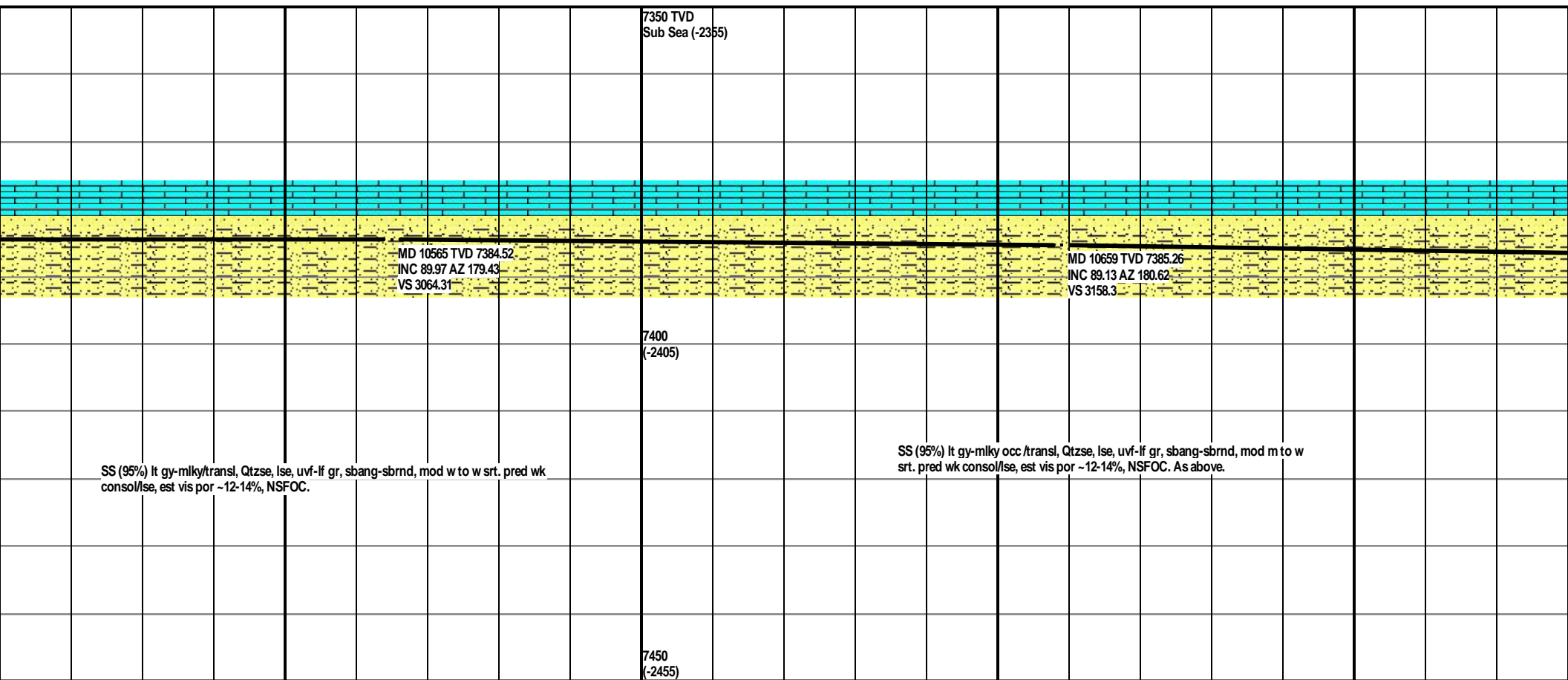
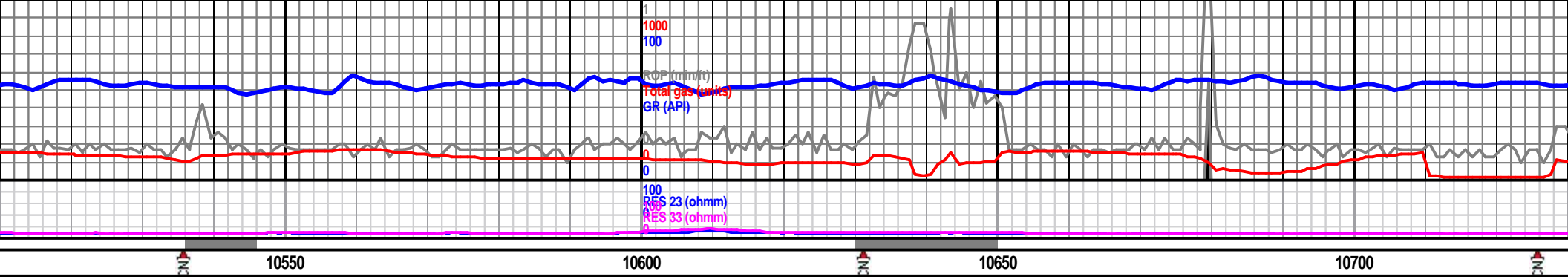


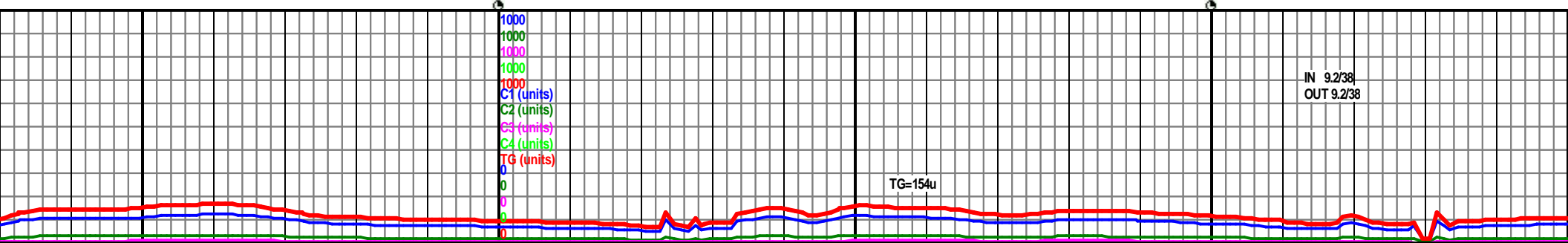
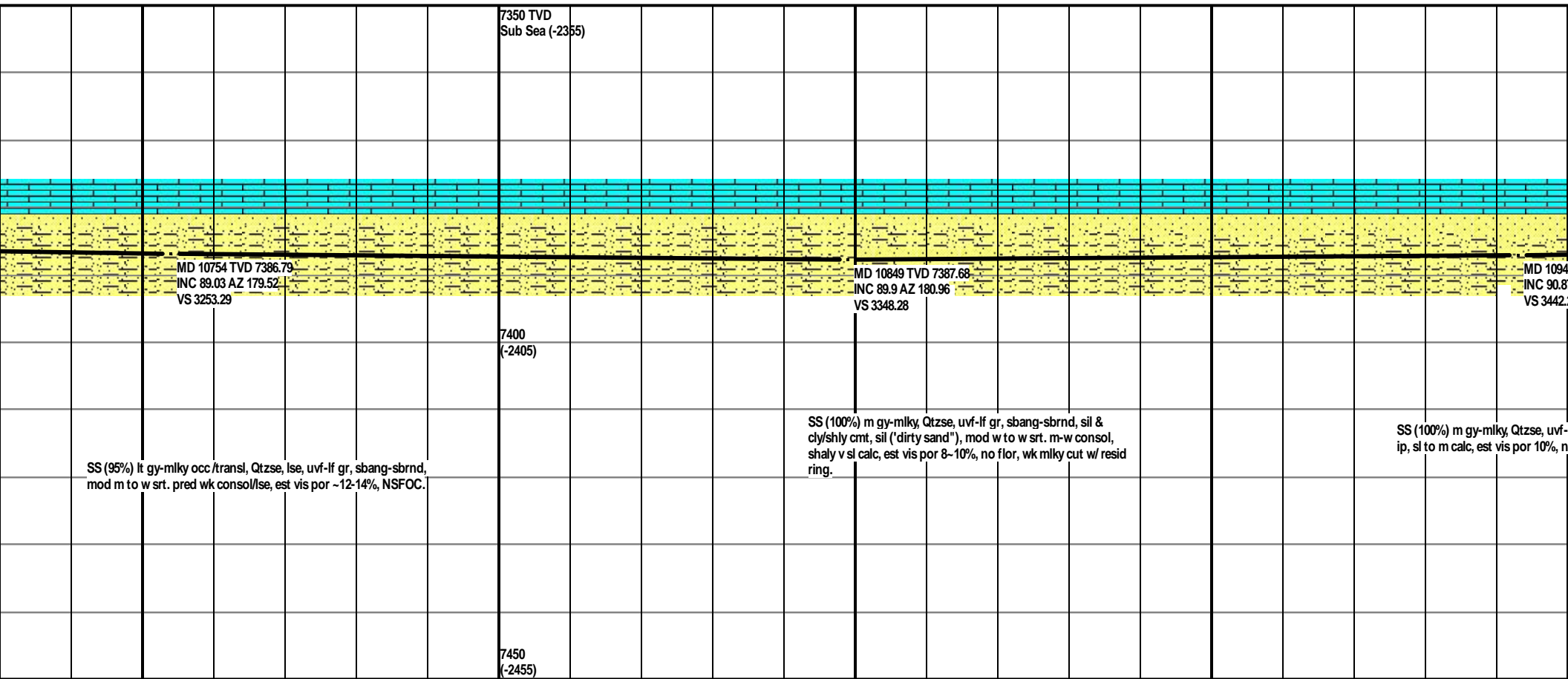
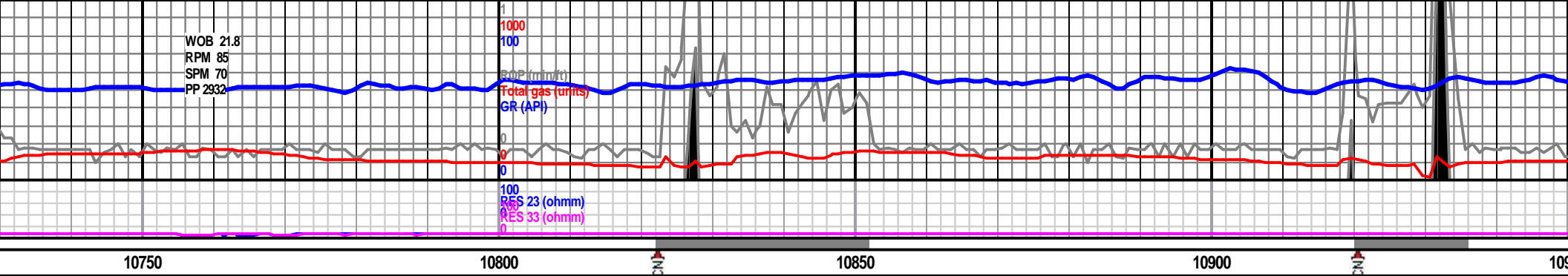


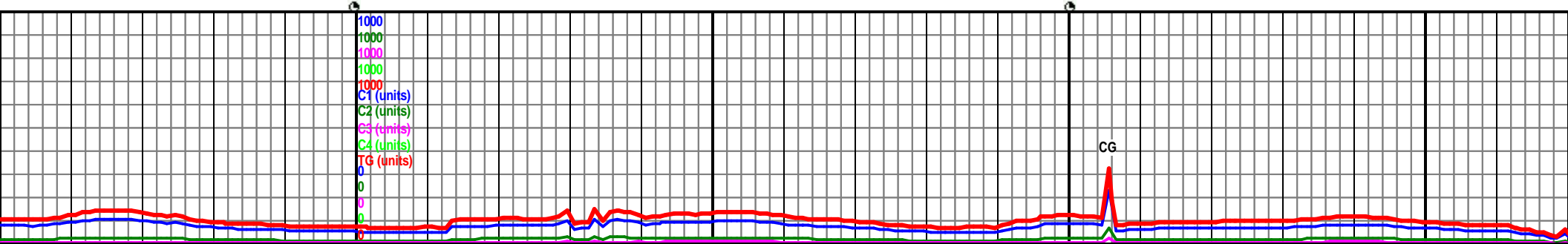
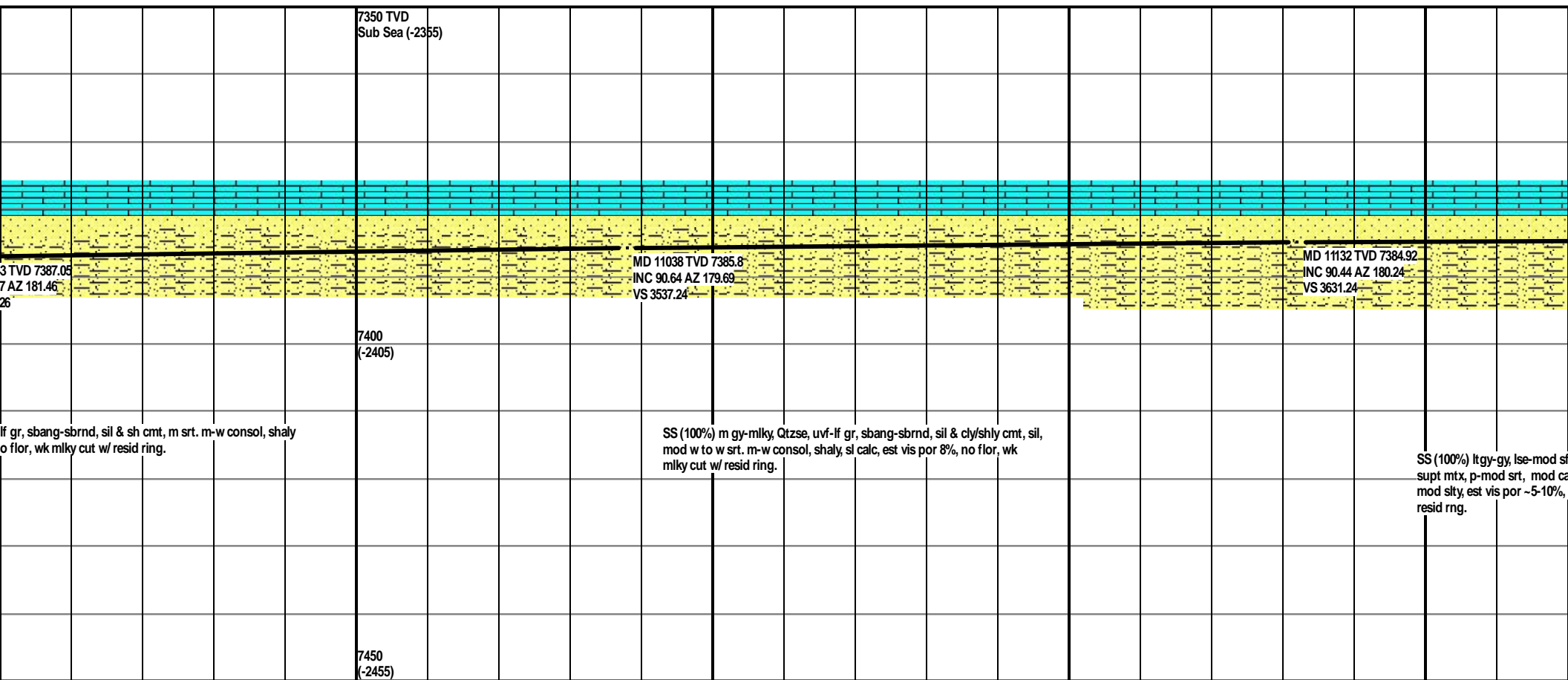
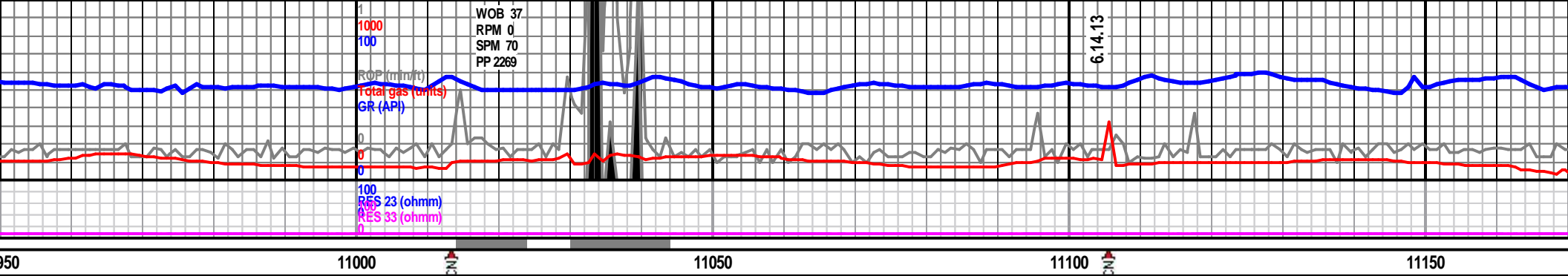


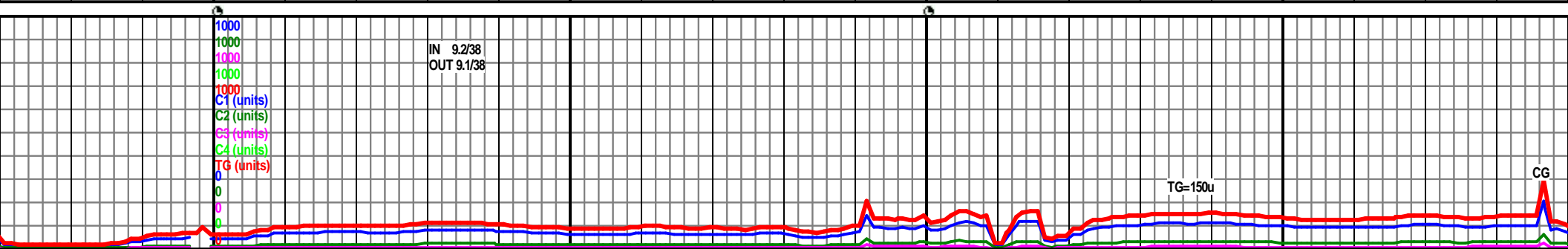
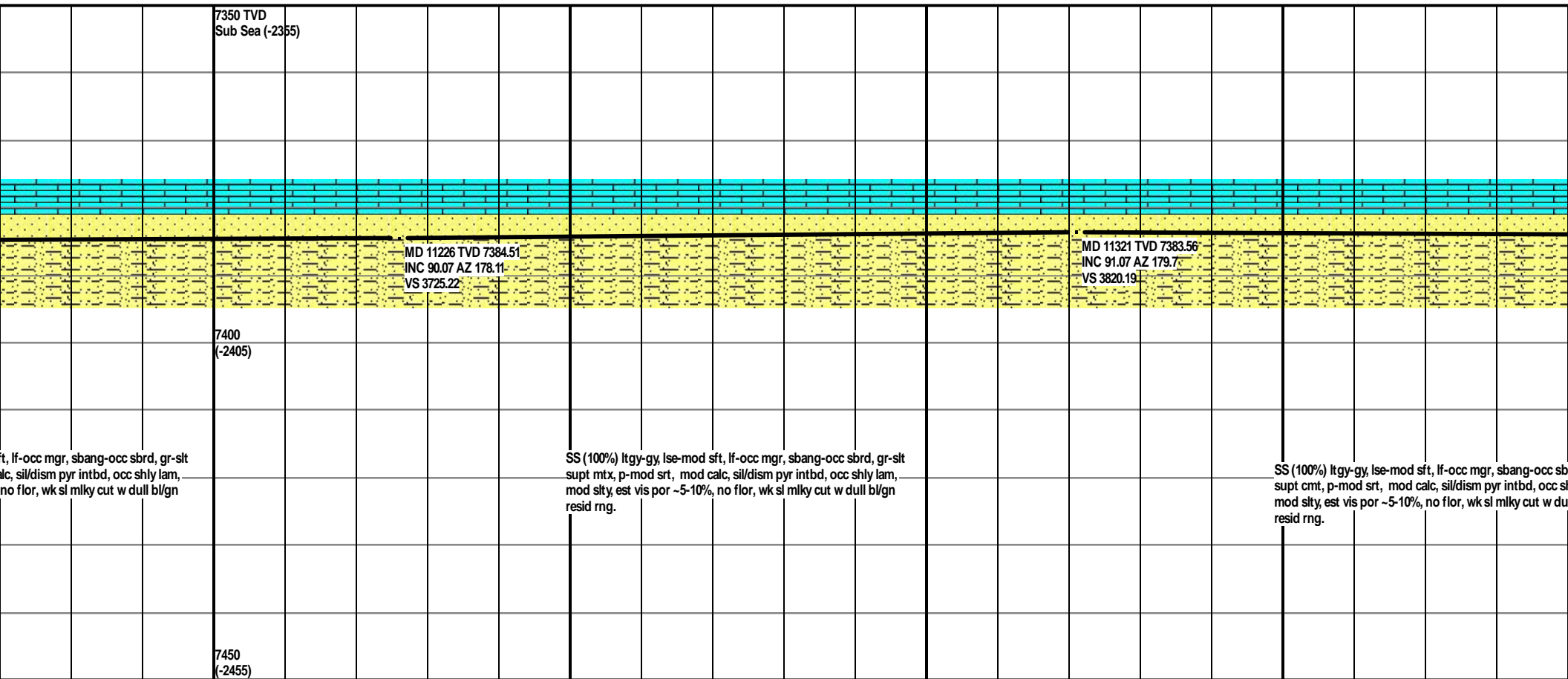
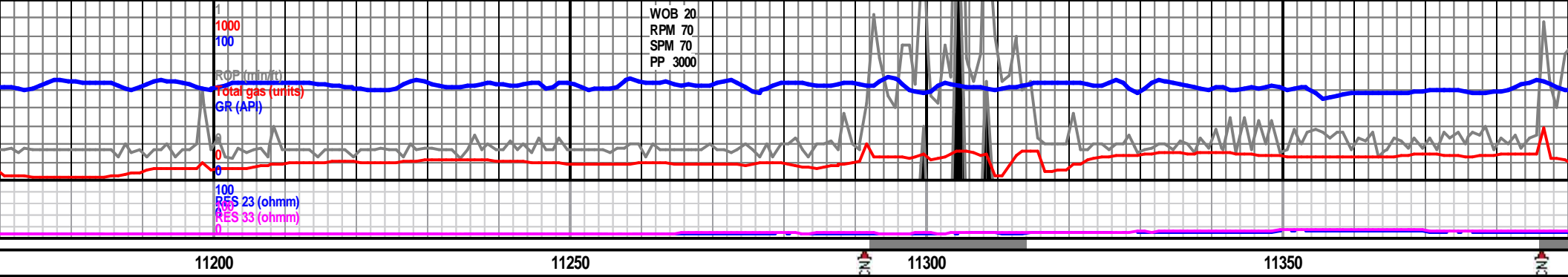


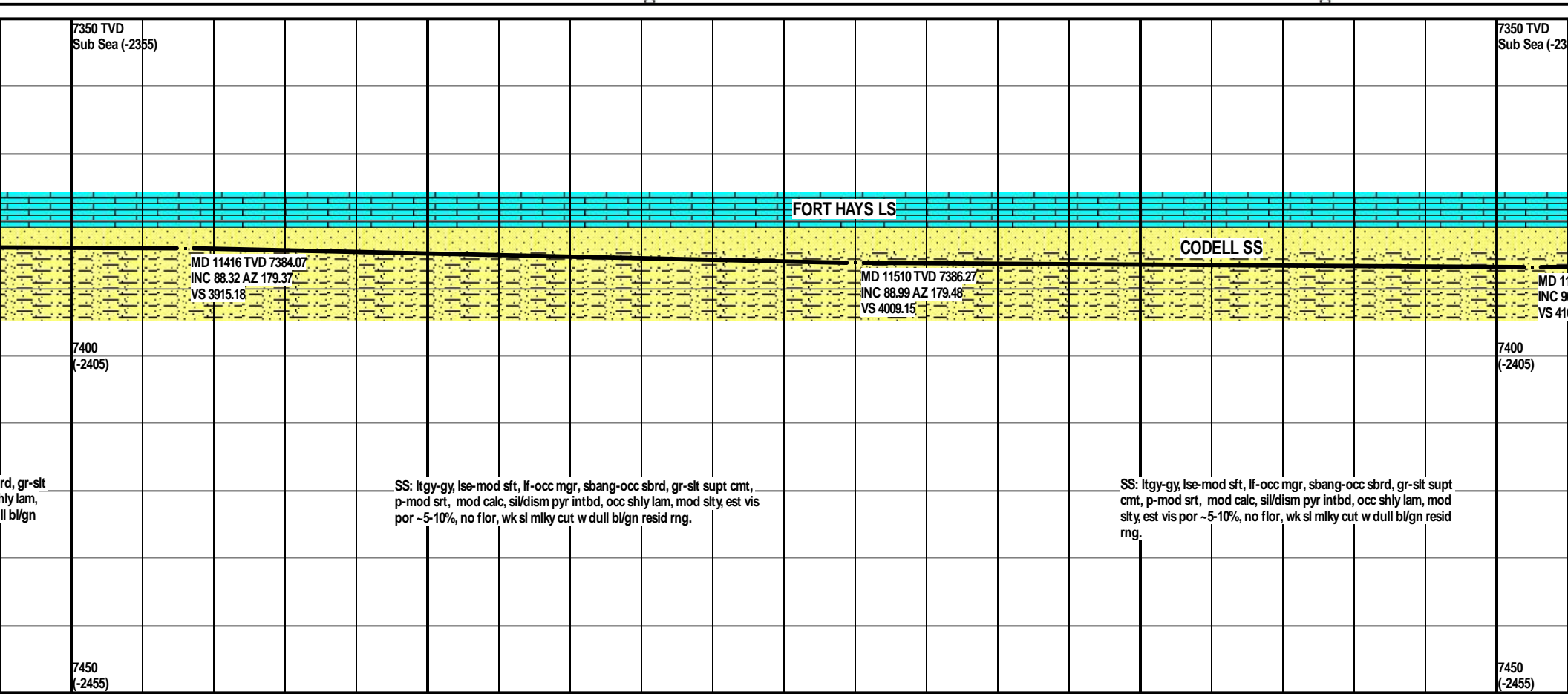


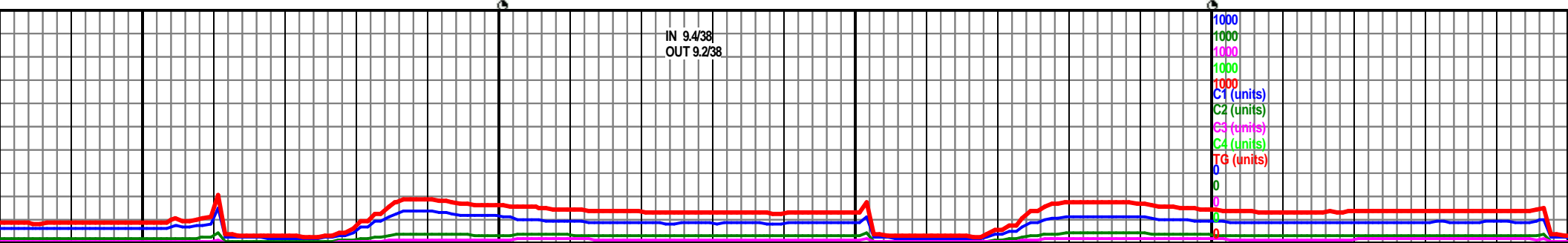
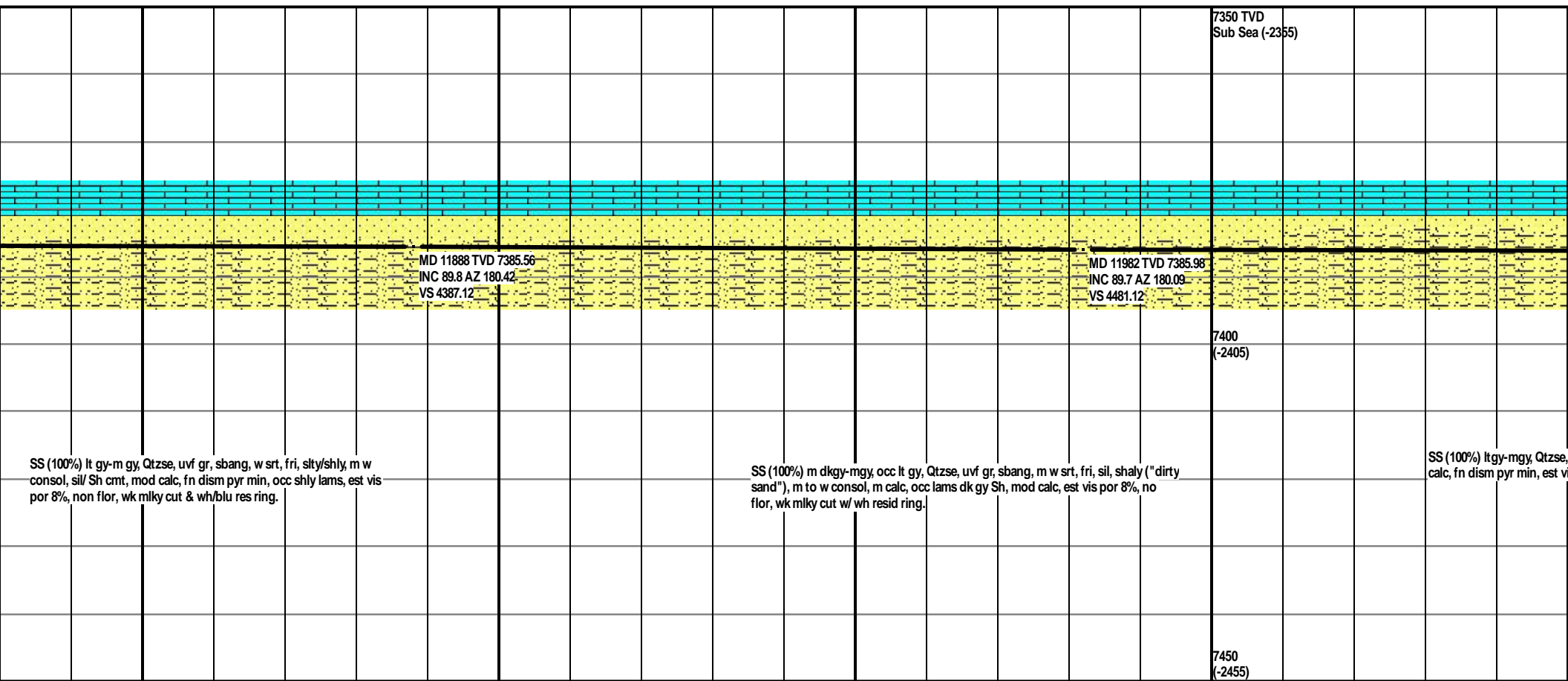
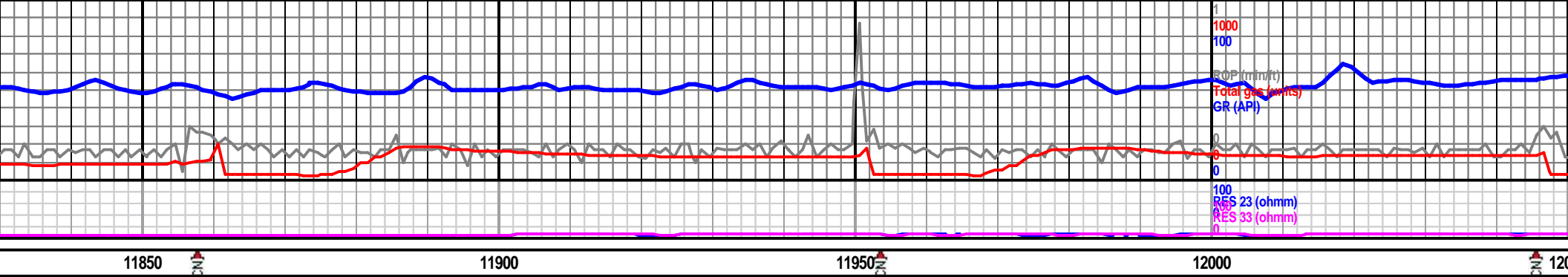


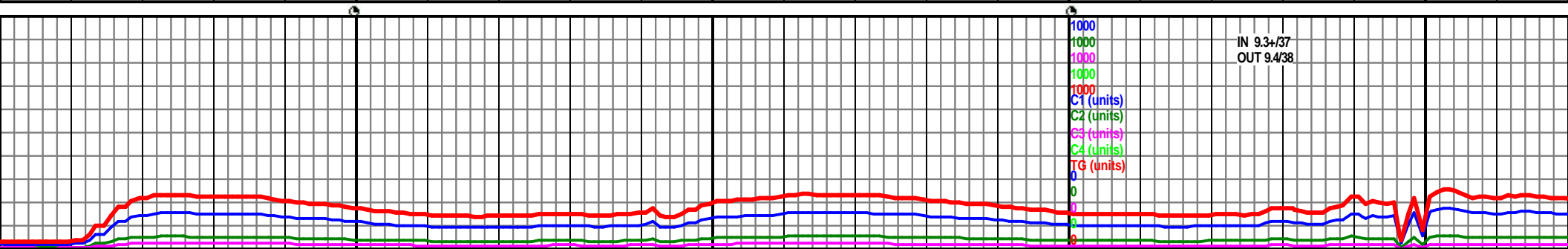
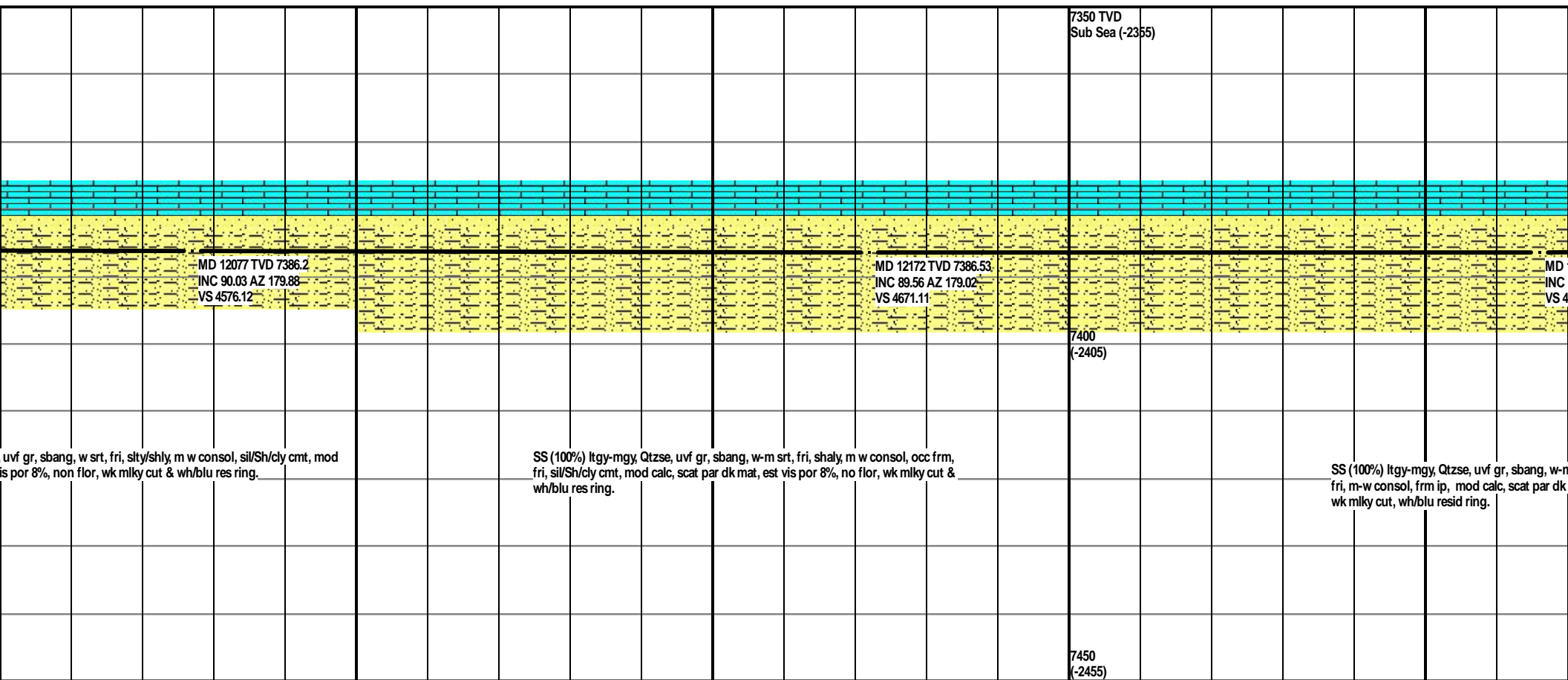


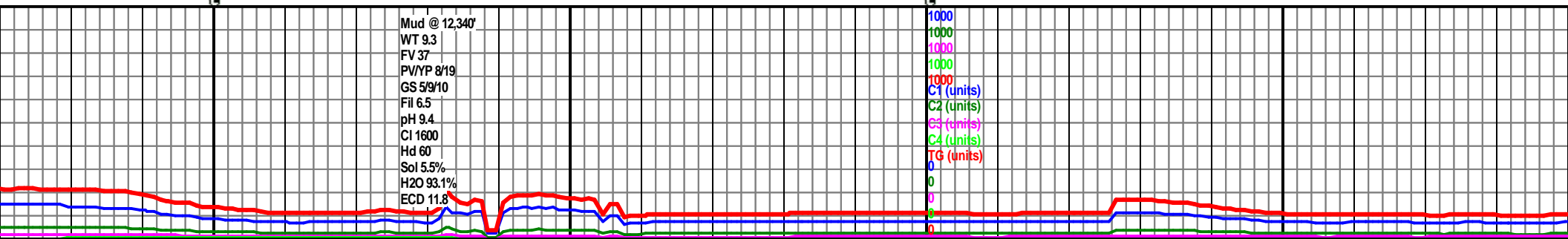
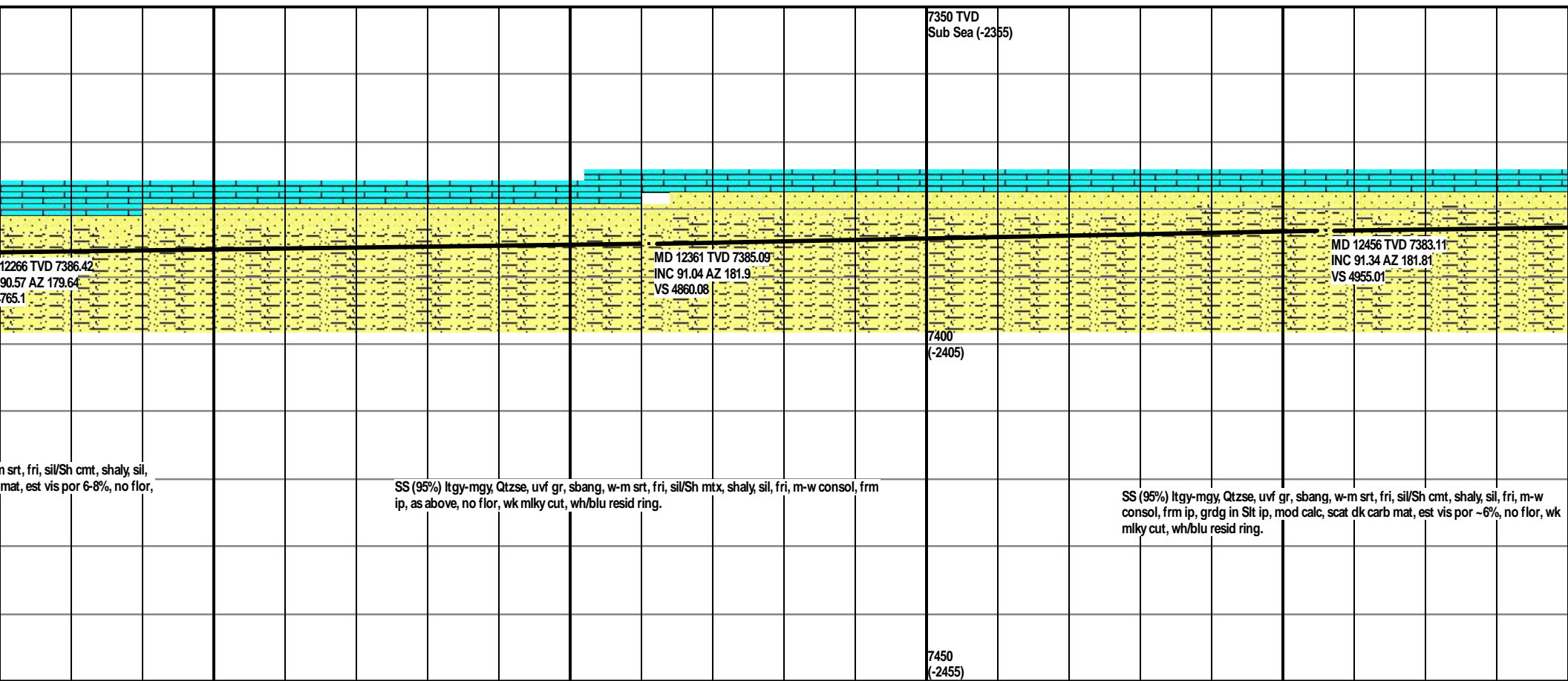
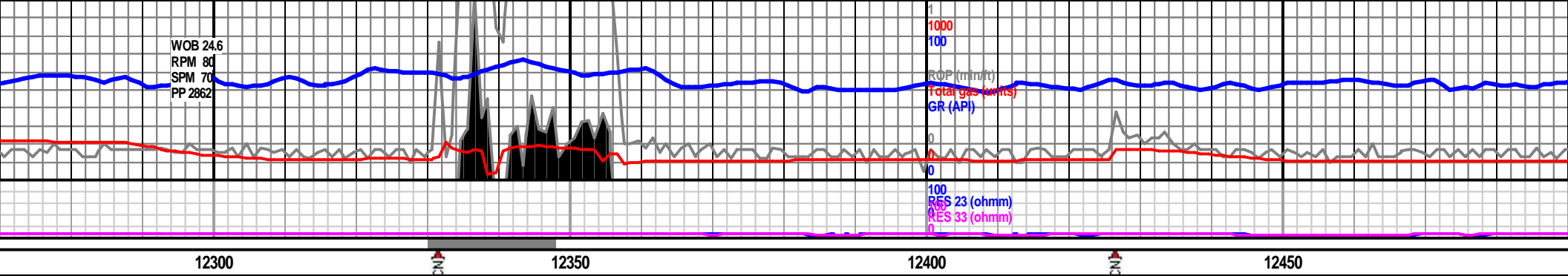


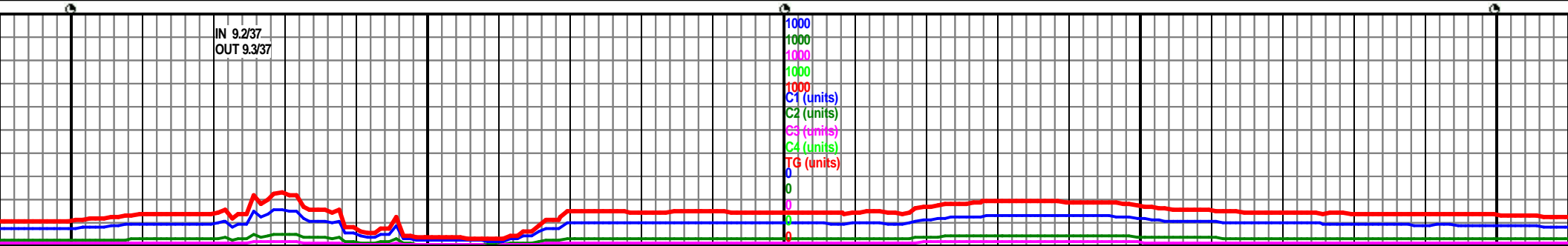
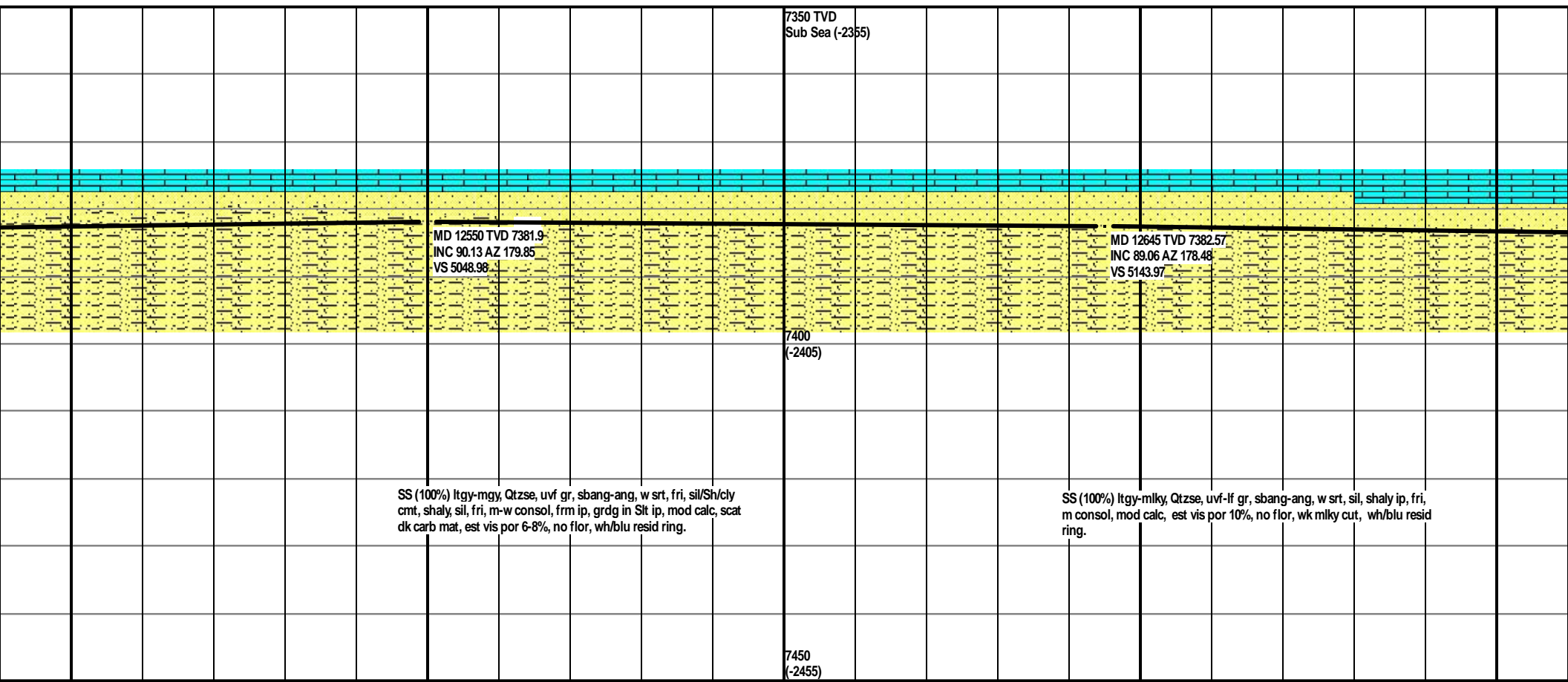
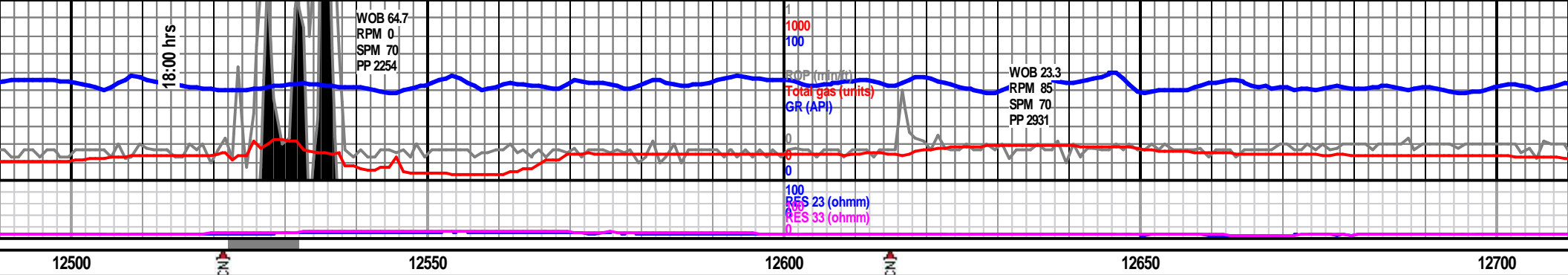


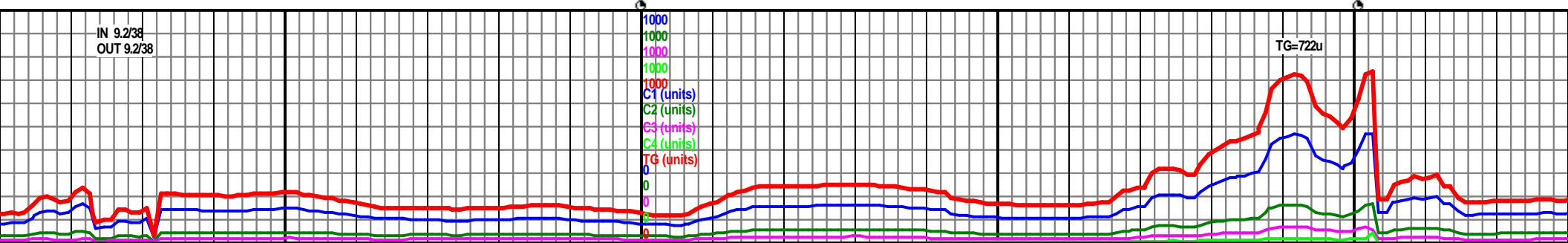
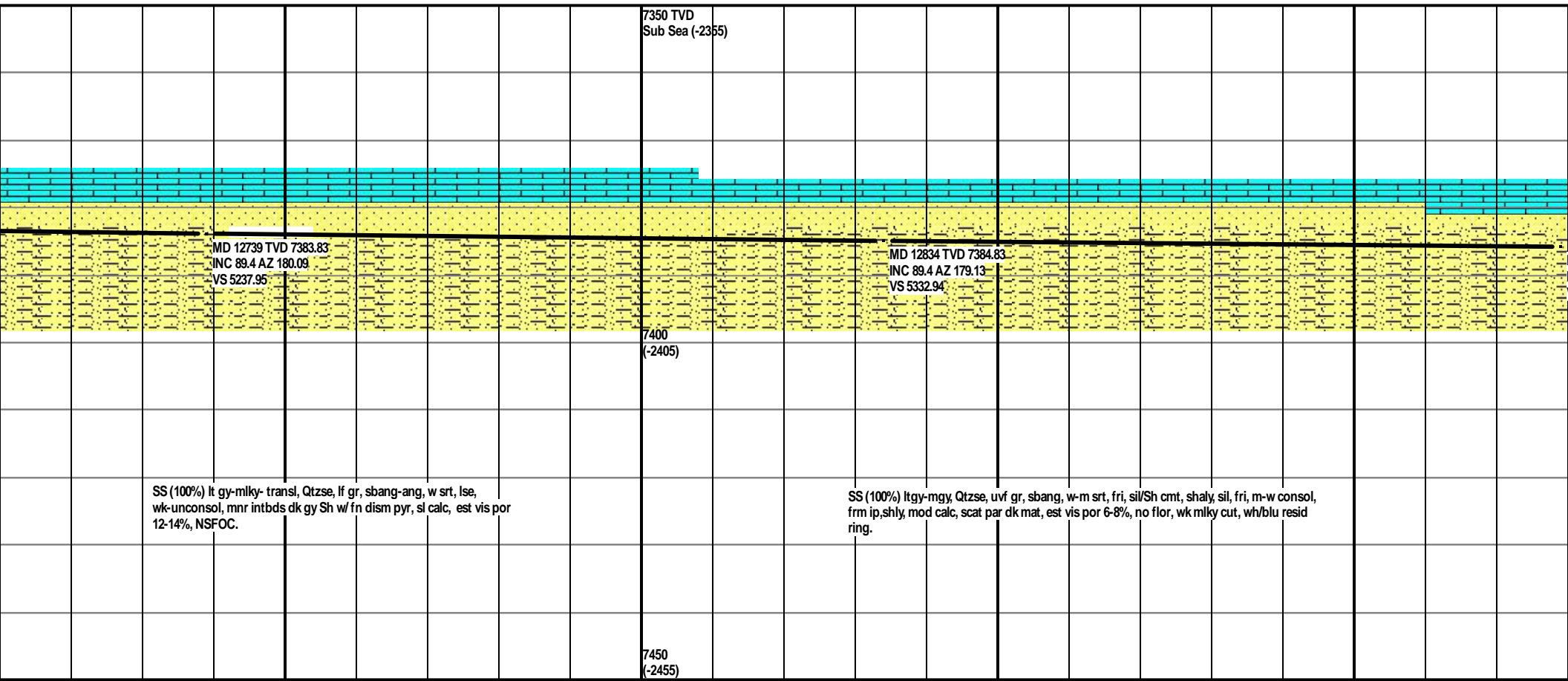
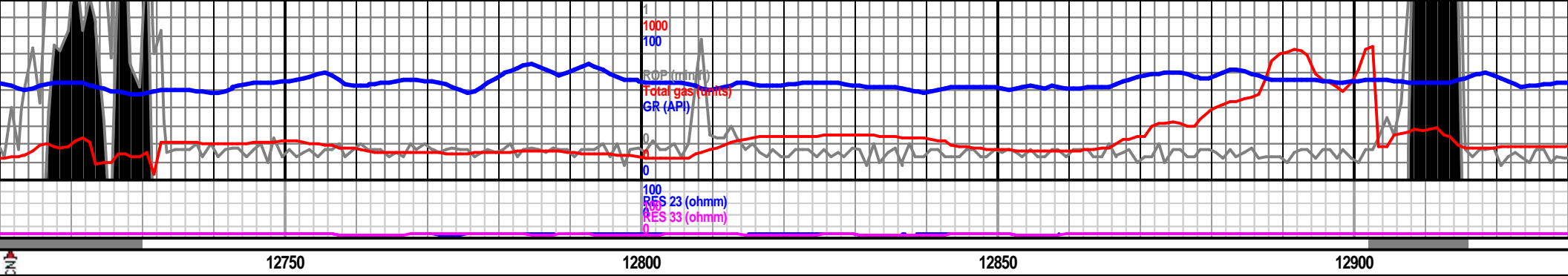


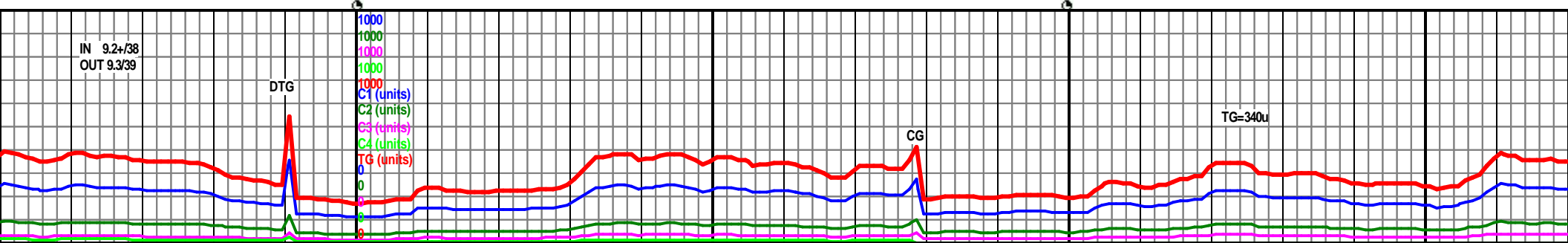
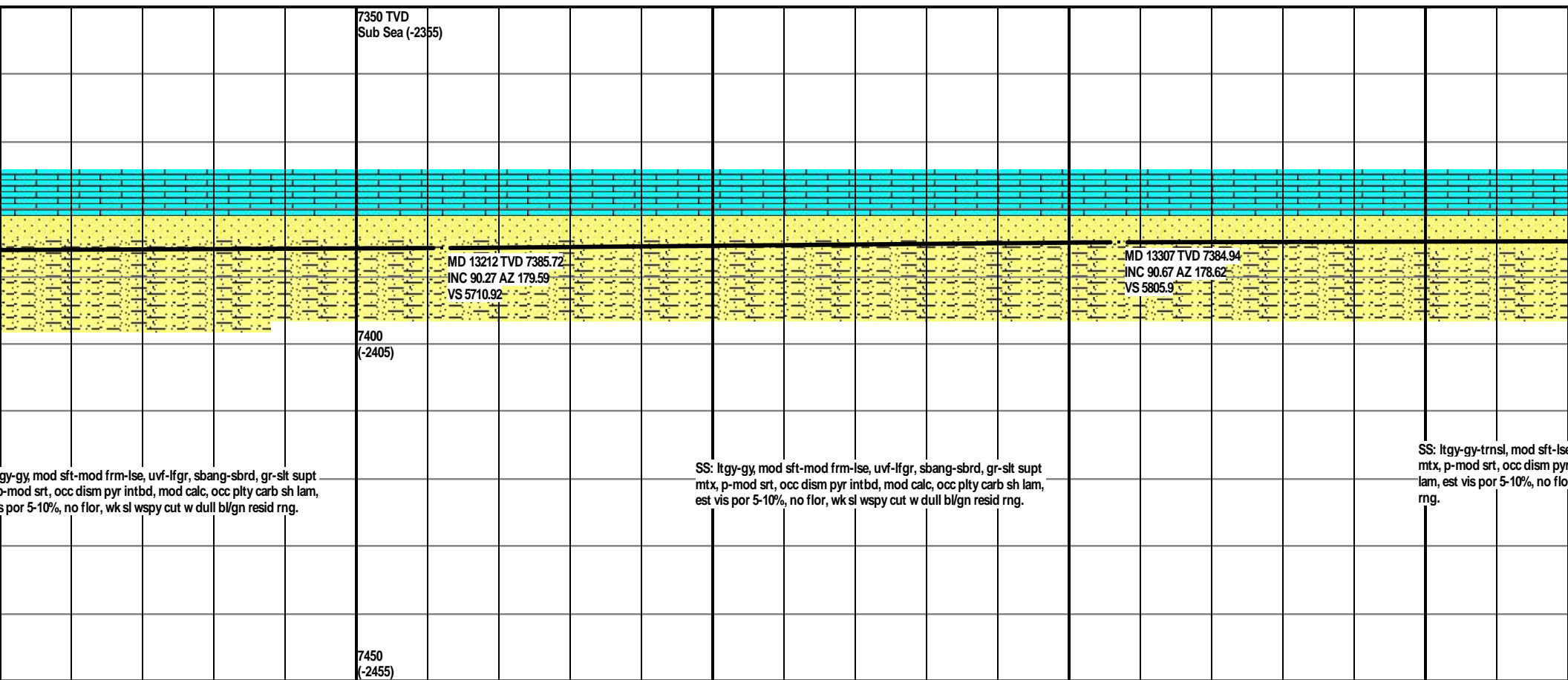
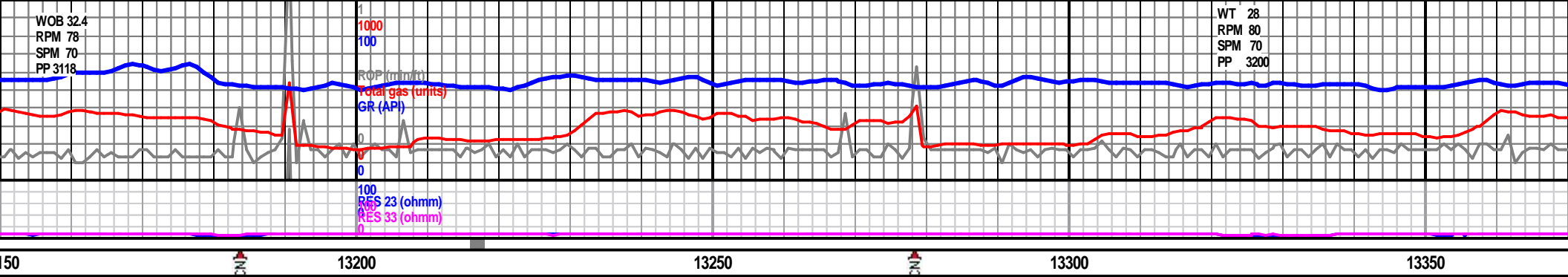


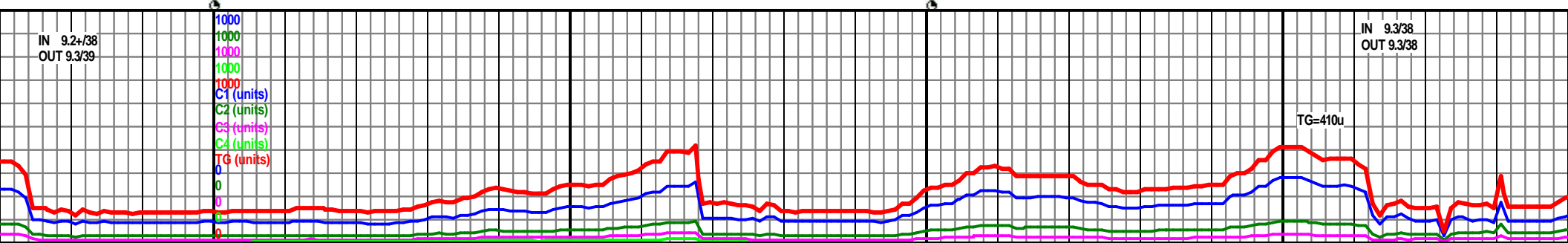
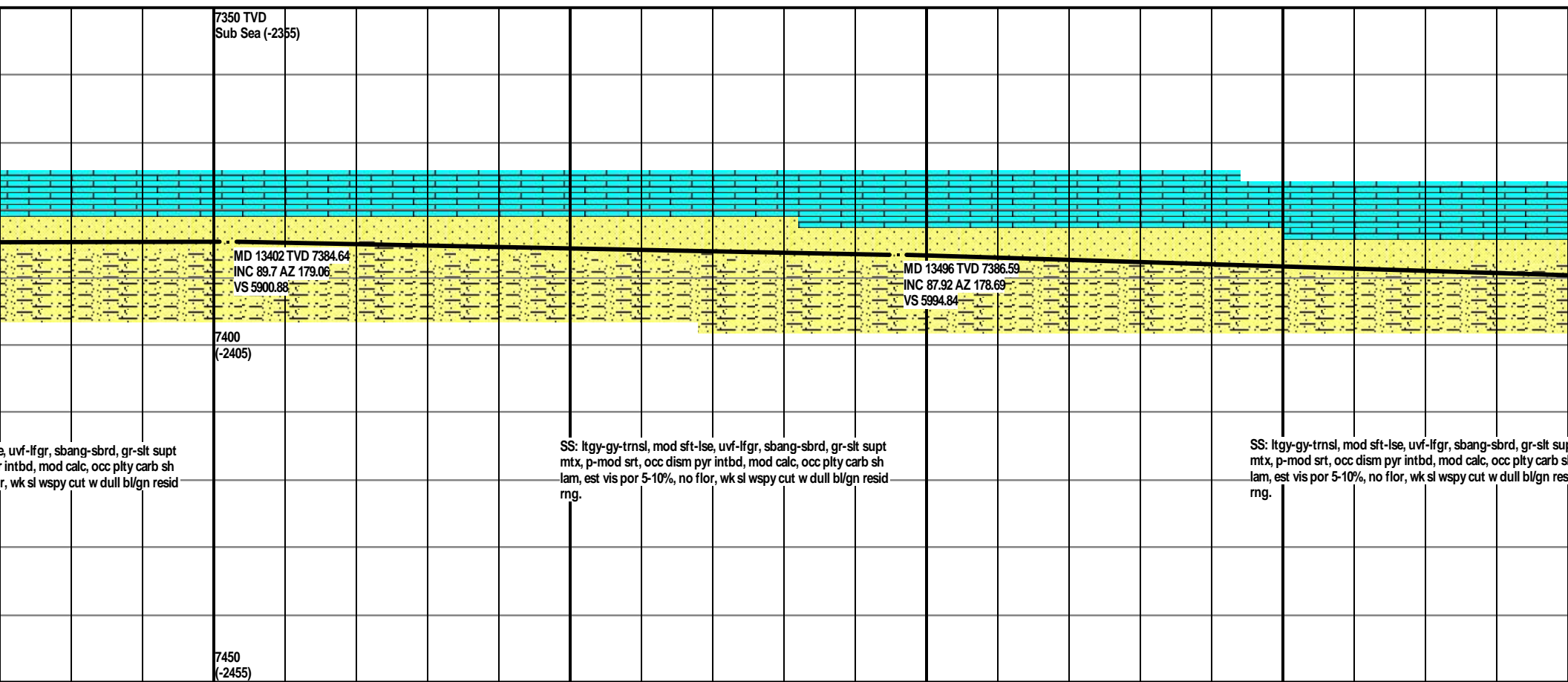
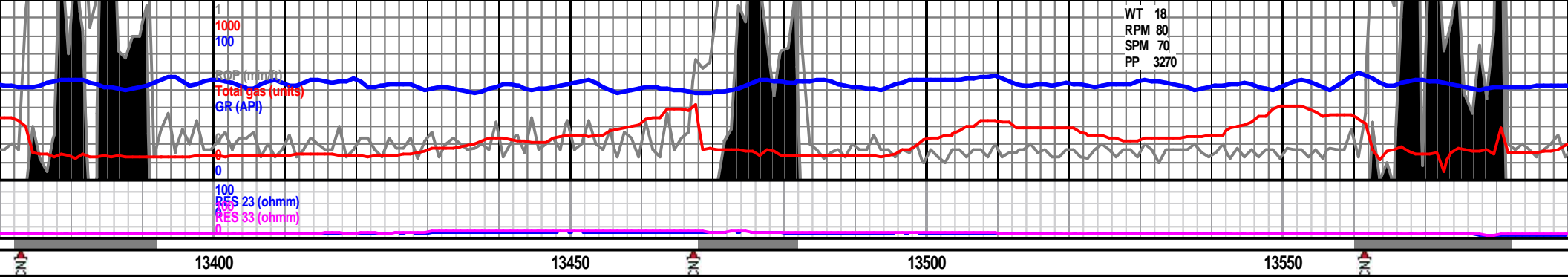


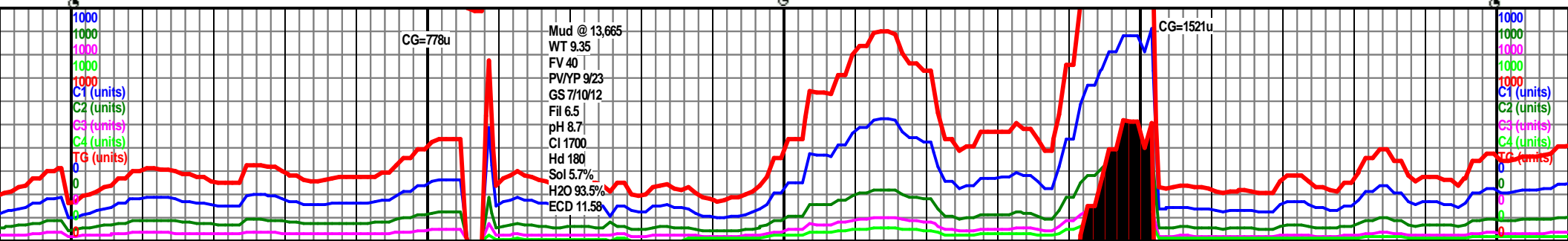
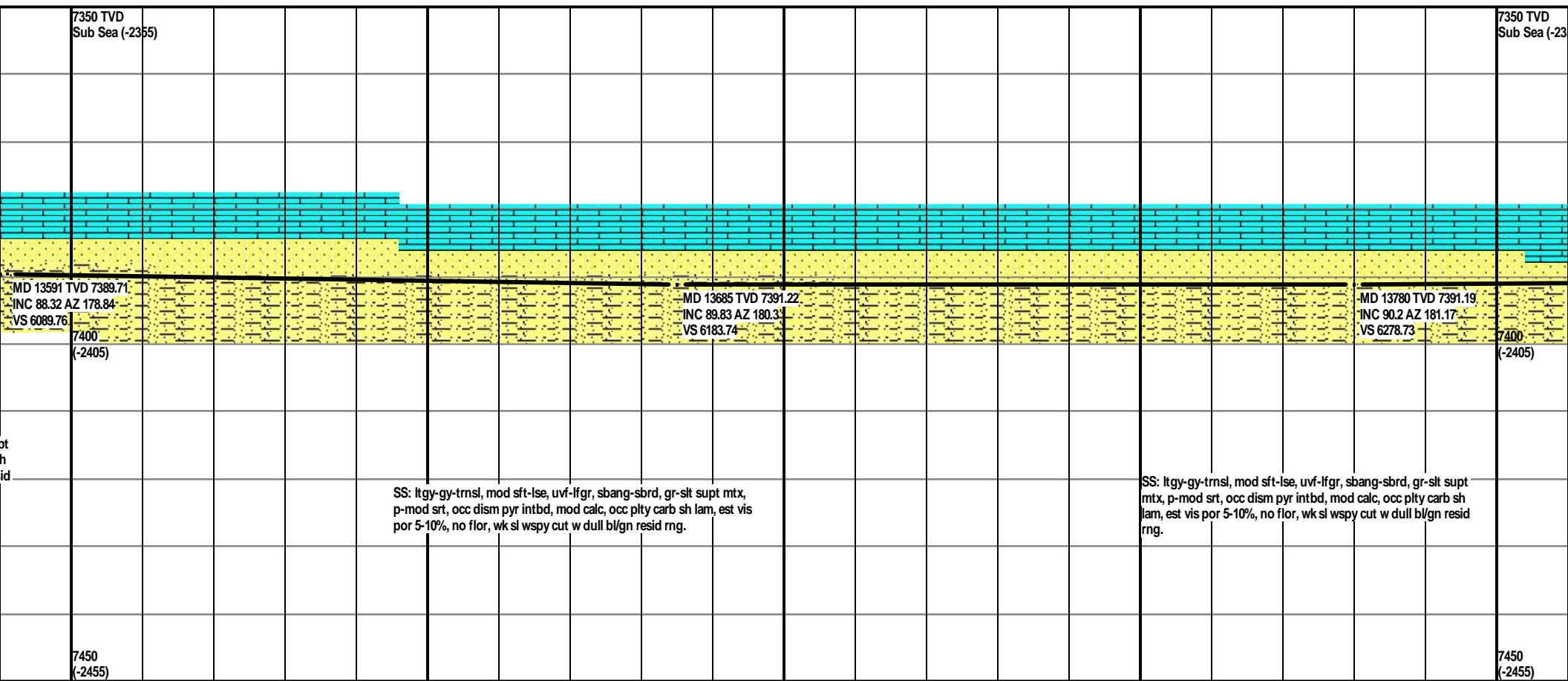
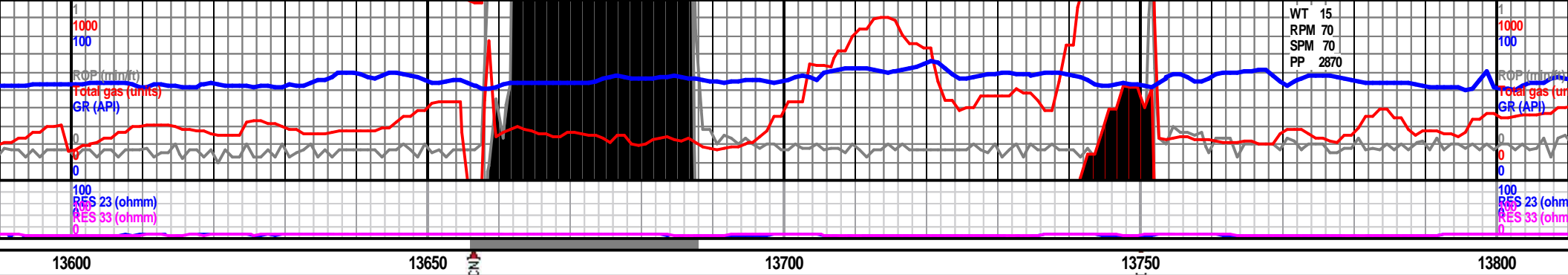


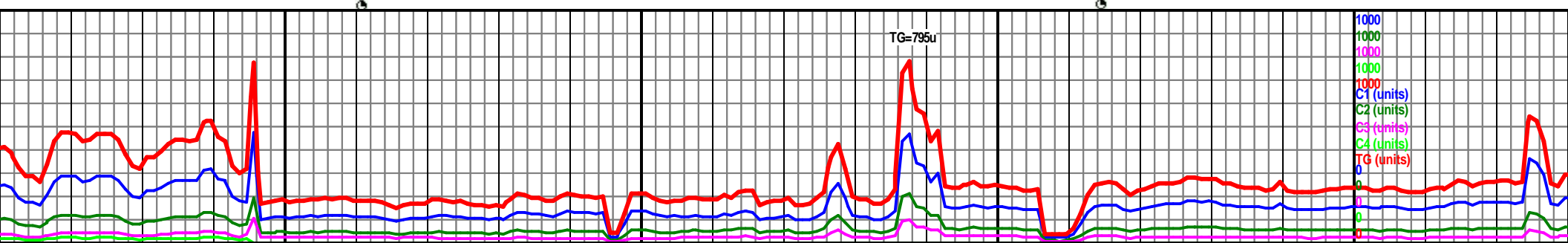
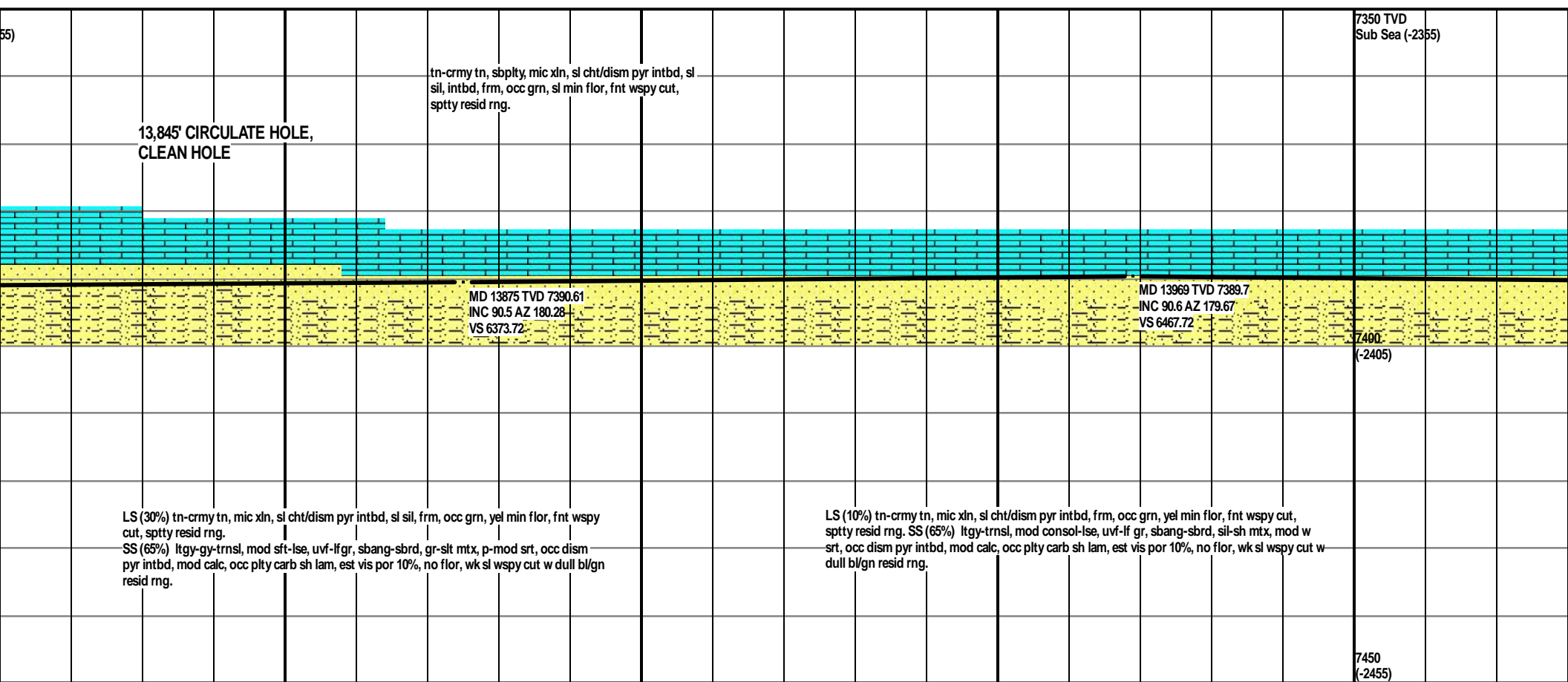
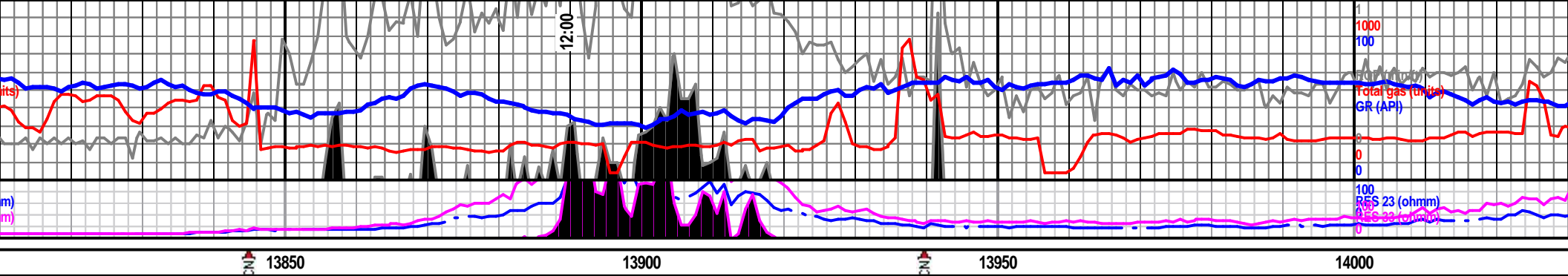


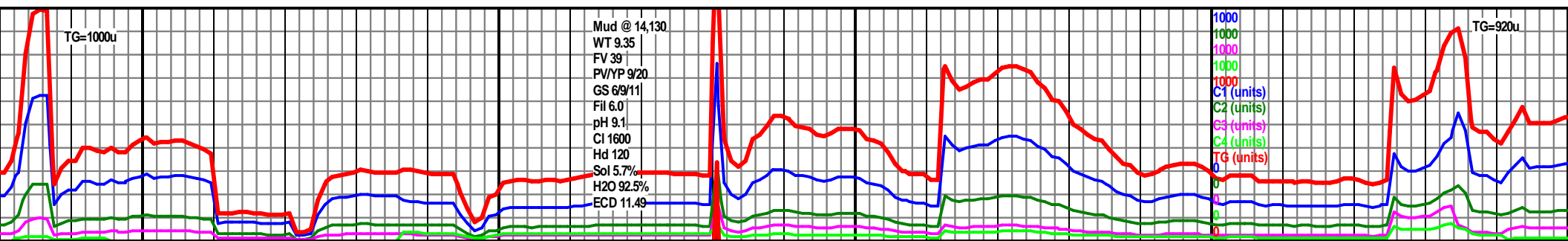
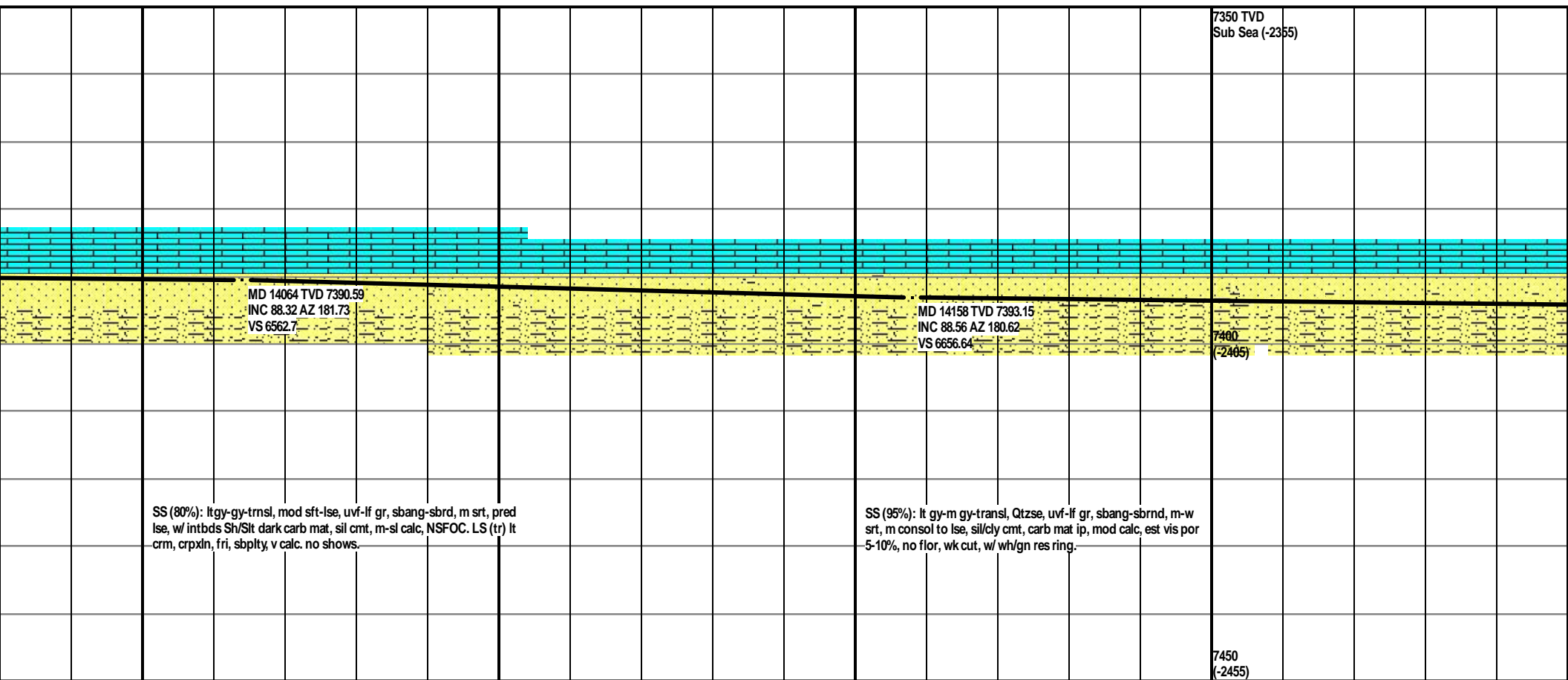
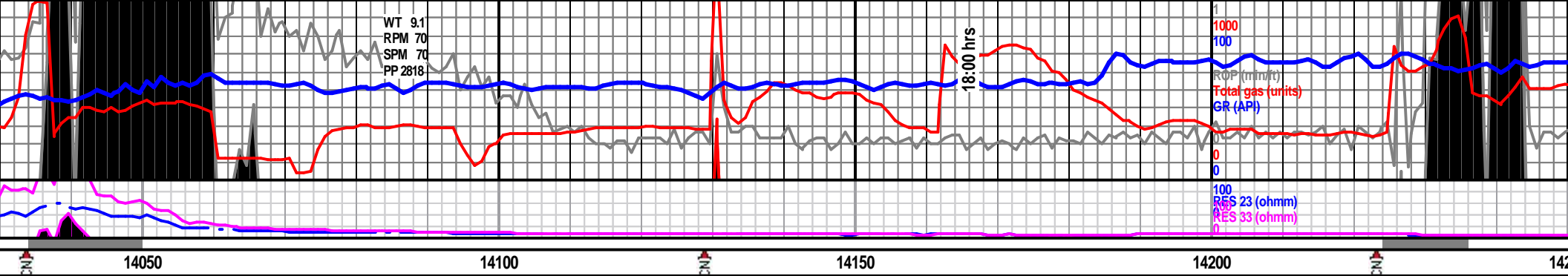


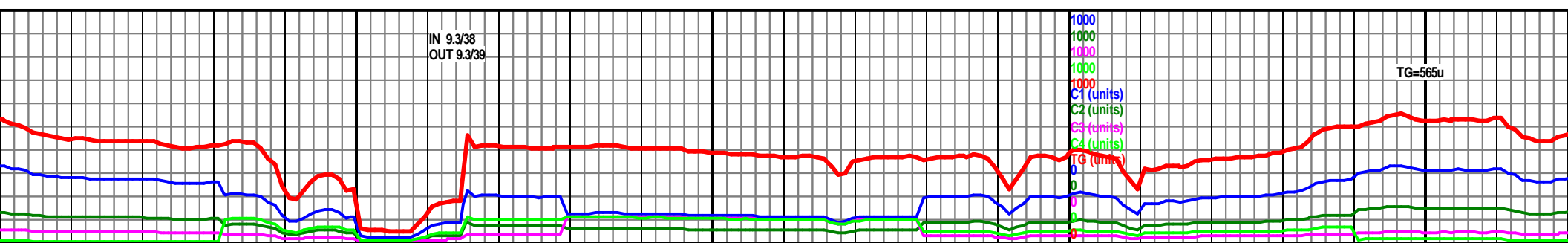
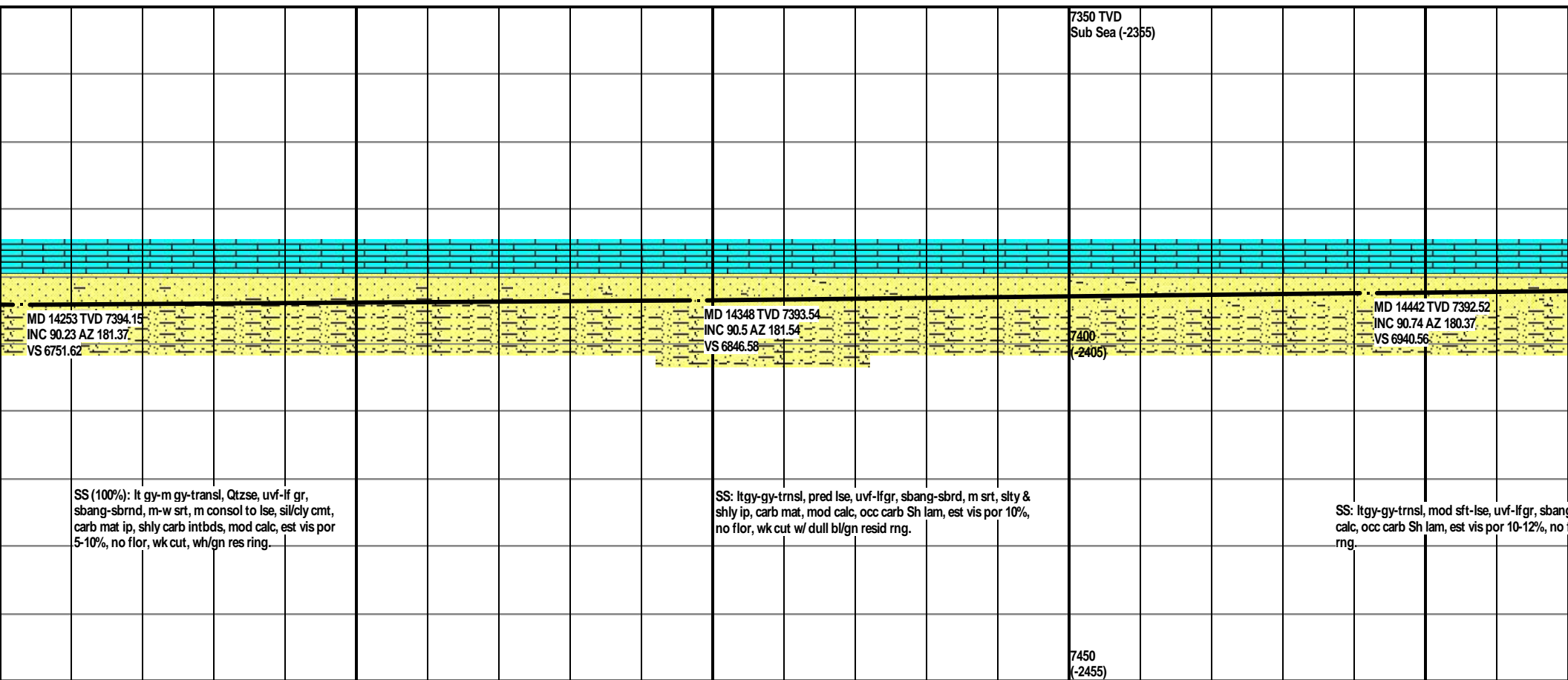
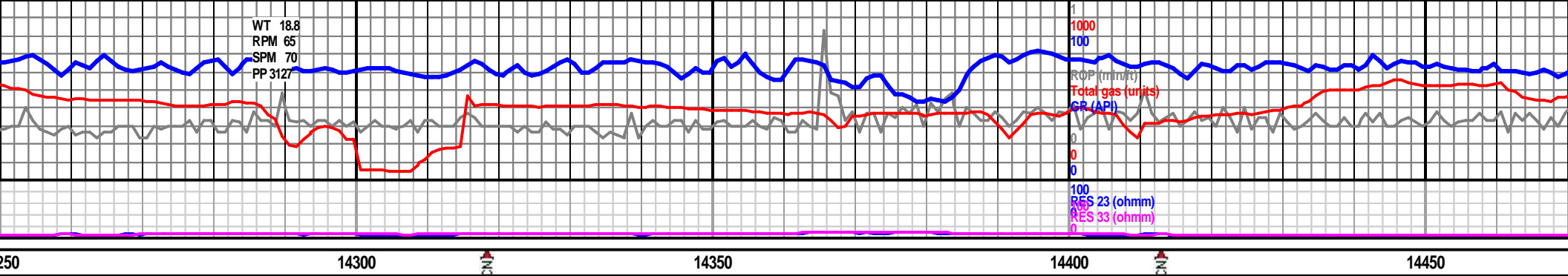


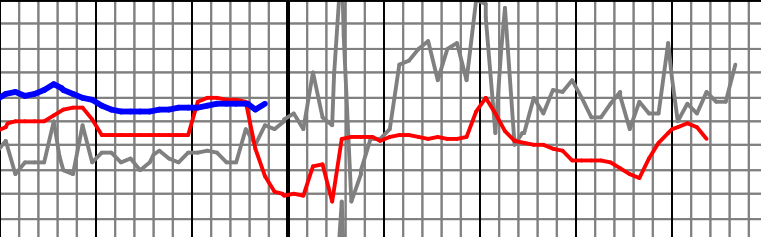












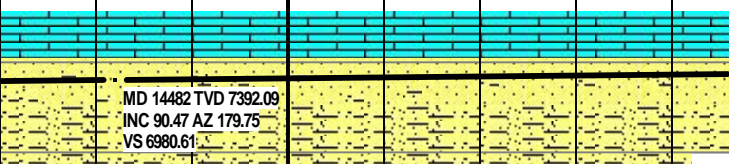
1000
100
ROP (min/ft)
Total gas (units)
GR (API)
0
0
0
100
RES 23 (ohmm)
RES 33 (ohmm)
0

14500

14550

14600

14650



MD 14547 TVD 7391.48
INC 90.6 AZ 179.25
VS 7045.61

TD @ 14,547' REACHED AT 22:40 HRS ON 6/15/13
CIRCULATE BOTTOMS UP, BIT #3 DRILLED 6,783' IN 61
HRS. 4 1/2" LINER SET @ 14542' ON 6/16/13.

BHL: -7045.61 ft Northing; 514.06 ft Easting;
Closure distance: 7064.33 ft

7400
(-2405)

g-sbrd, m srt, slty & shly ip, mod-sl
flor, wk sl wspy cut w dull bl/gn resid

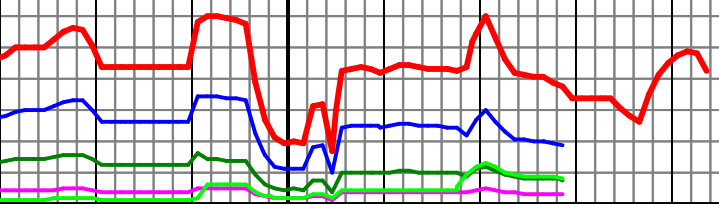
SS: ltgy-gy-trnsl, pred lse, uvf-lfgr,
sbang-sbrd, m srt, slty & shly ip, carb mat,
mod calc, as above.

THANK YOU !

STEVEN SCHINDLER
MAREK CIESNIK

(GOOLSBY BROTHERS & ASSOCIATES)

7450
(-2455)



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

