

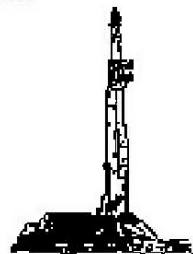
GOOLSBY BROTHERS
and associates, inc.

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: DECHANT 37N-W1HZ

Location: Section 36, T3N, R65W, Weld County, CO.

License Number: API: 05-123-36382 AFE: 2070383.DRL

Spud Date: Feb. 3, 2013

Surface Coordinates: Sec 36, T3N, R65W 250' FSL & 2529' FEL

Lat: 40.1750129 N Long: 104.6119350 W

Bottom Hole Coordinates: Sec. 1, T2N, R65W

562.56' FSL 1600.53' FEL

Ground Elevation (ft): 4827

Logged Interval (ft): 6200'

To: 12384'

Formation: Pierre shales / sands, Niobrara Target

Type of Drilling Fluid: Polymer-Water

K.B. Elevation (ft): 4852

Total Depth (ft): 12384'

Region: Wattenberg

Drilling Completed: Feb. 11, 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: Steven Schindler, Alan Seeling

Company: Goolsby Brothers & Assoc. (GBA), Inc. (www.goolsbybrothers.com)

Address: 575 Union Blvd.

Suite 208,

Lakewood CO. 80228

E-logs

MWD: 680'-12,384'
GAMMA RAY: 680'-12,342'


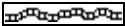
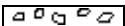

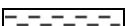
Casing





9 5/8" Surface Casing (IPSCO 36# J55) set @ 680'.
7" Intermediate Casing (IPSCO 26# P110) set @ 8,181'.
4 1/2" Production Liner (LTC/DQX 11.6# P110) set @12,374'.






Comments






- 1) Drilling Contractor: H&P 311
Rig Manager: Don Truett, James Baggett.
Drillers: Evan Leavitt, Christopher Beckstead,
- 2) Company Man: Rick Oman, Kaleb Ford, Scott Allred, Jerry Barnes.
- 3) Mud Company : Halliburton
Mud Engineer: Justin Hessenthaler, Chance Galey.
- 4) Directional Drilling: Scientific Drilling
Drillers: John Noakes, Steve Schlamp
MWD: Jeff Smith, Joshua Denning
- 5) Gas Equipment: Mudlogging Systems Inc.
by Terra Services
Redbox # ML-419

ROCK TYPES

 Anhy
 Bent
 Brec
 Cht
 Clyst

 Coal
 Oil sat.
 Congl
 Dol
 Gyp

 Lmst
 Mrlst
 Salt
 Shale
 Shcol

 Shgy
 Ss
 Sltst
 Ss
 Chalk

 Carb sh
 Slty 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
 Ssstrg
 Sltst strg

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

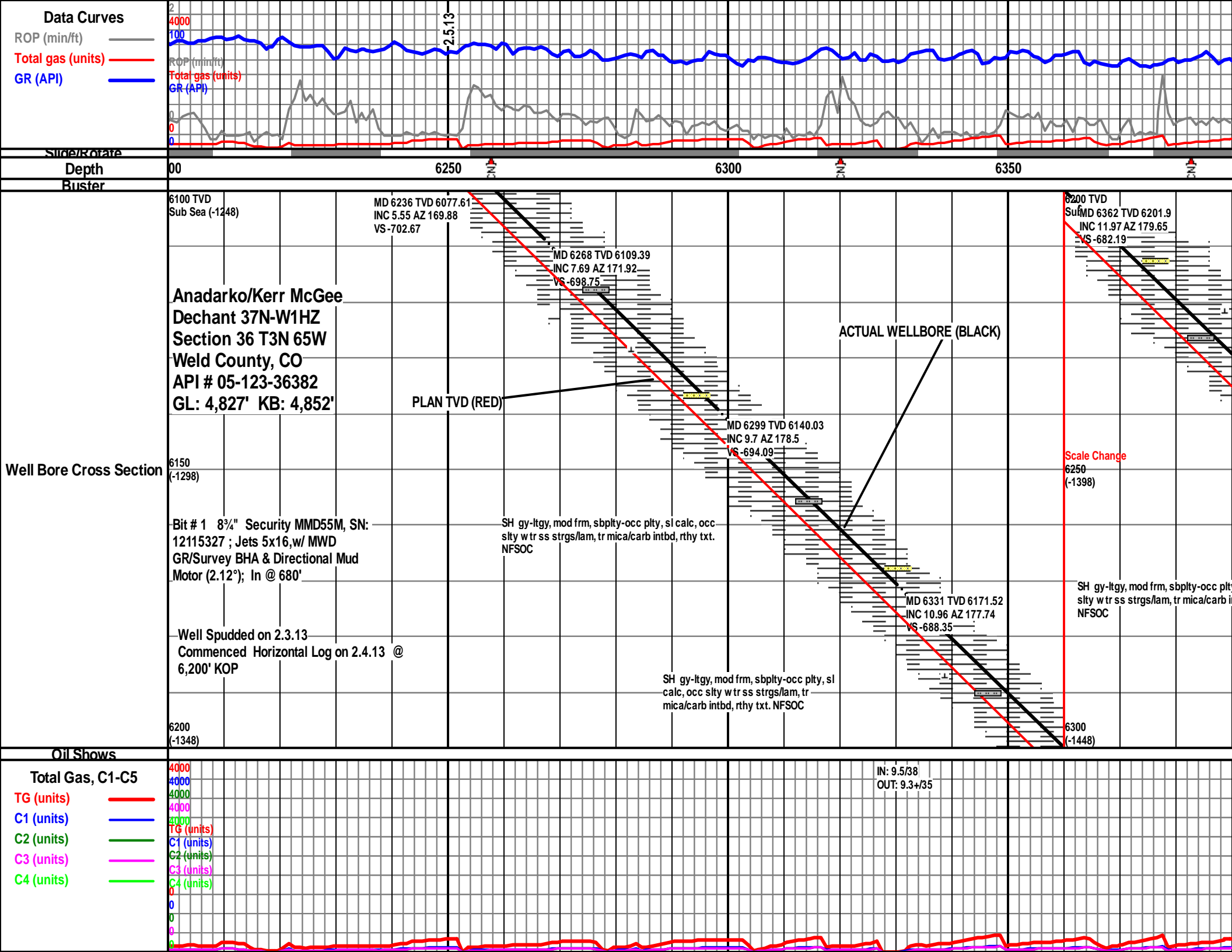
Inter
 Moldic
 Organic
 Pinpoint
 Vuggy

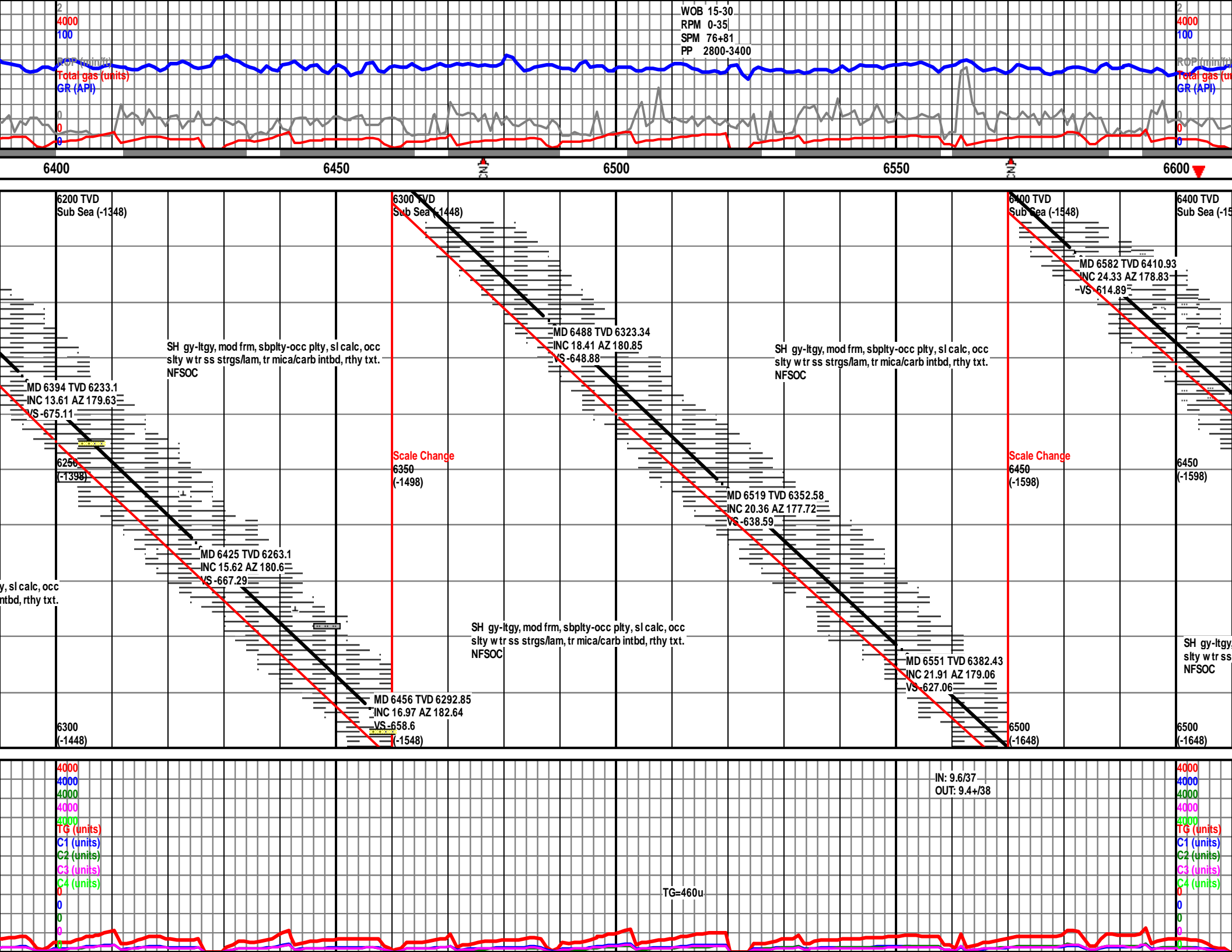
ROUNDING

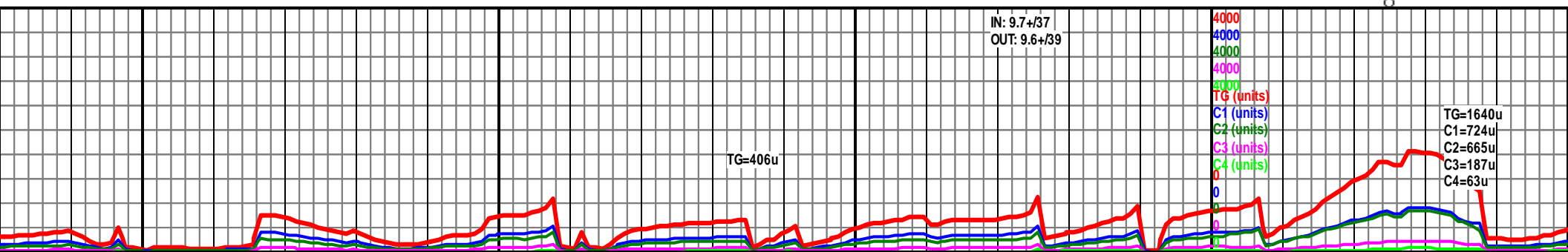
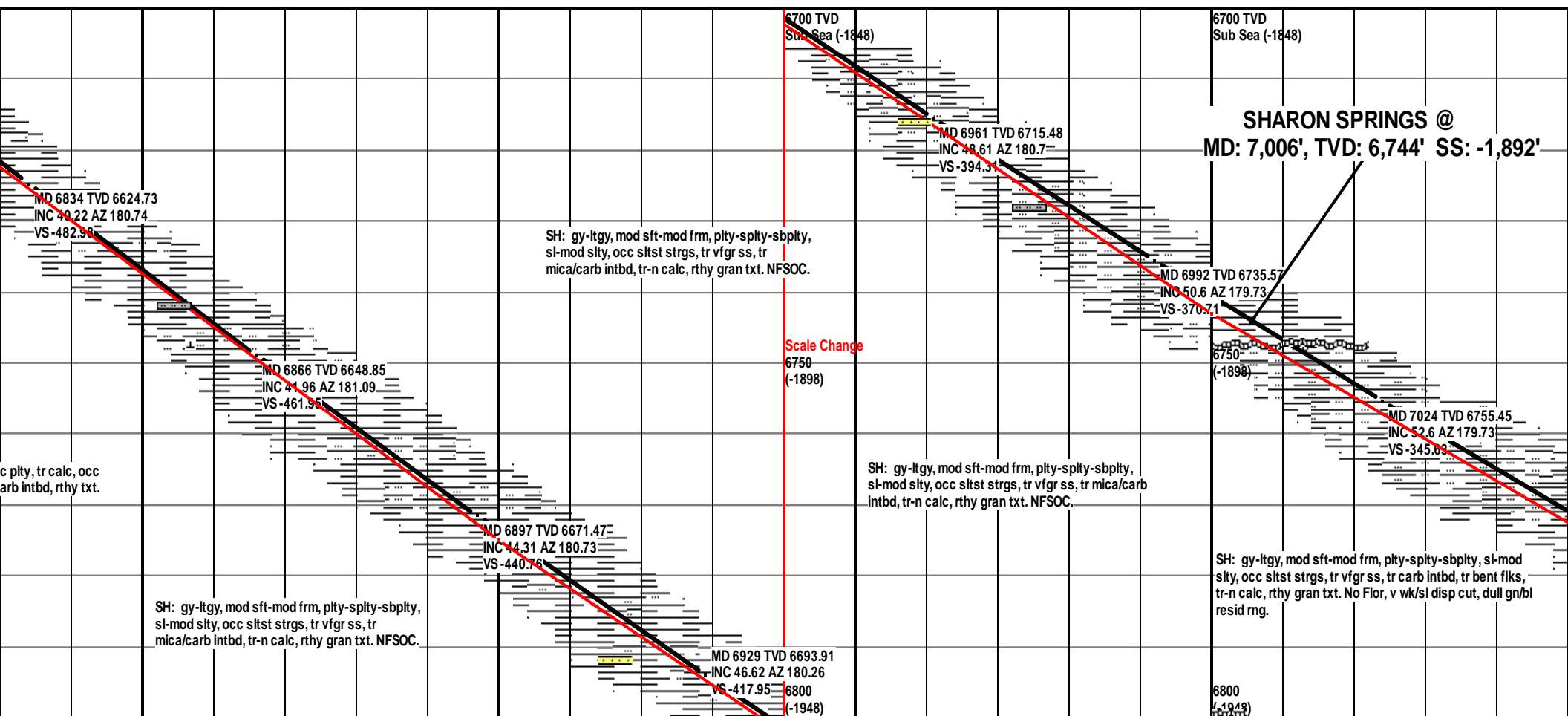
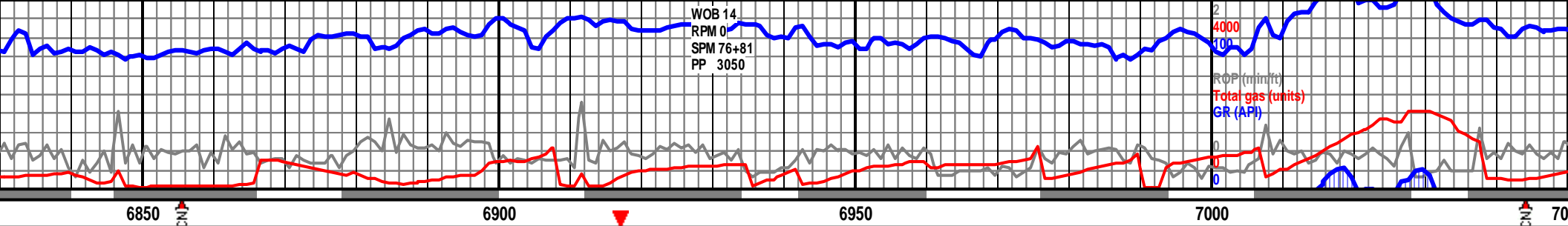
Rounded
 Subrnd
 Subang
 Angular

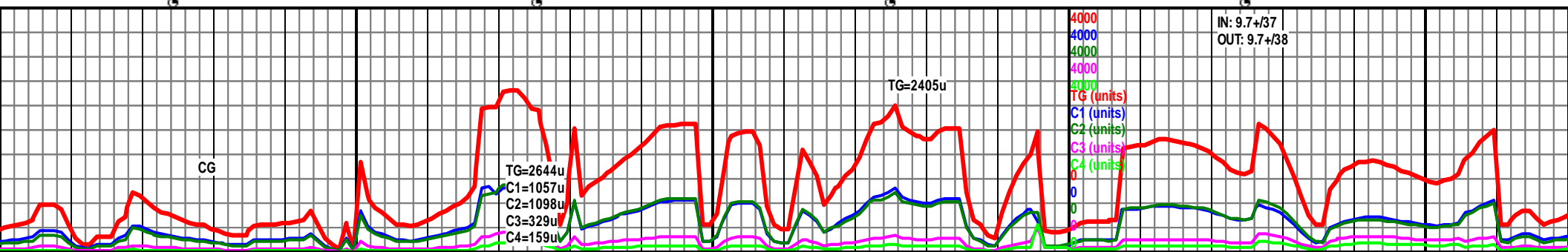
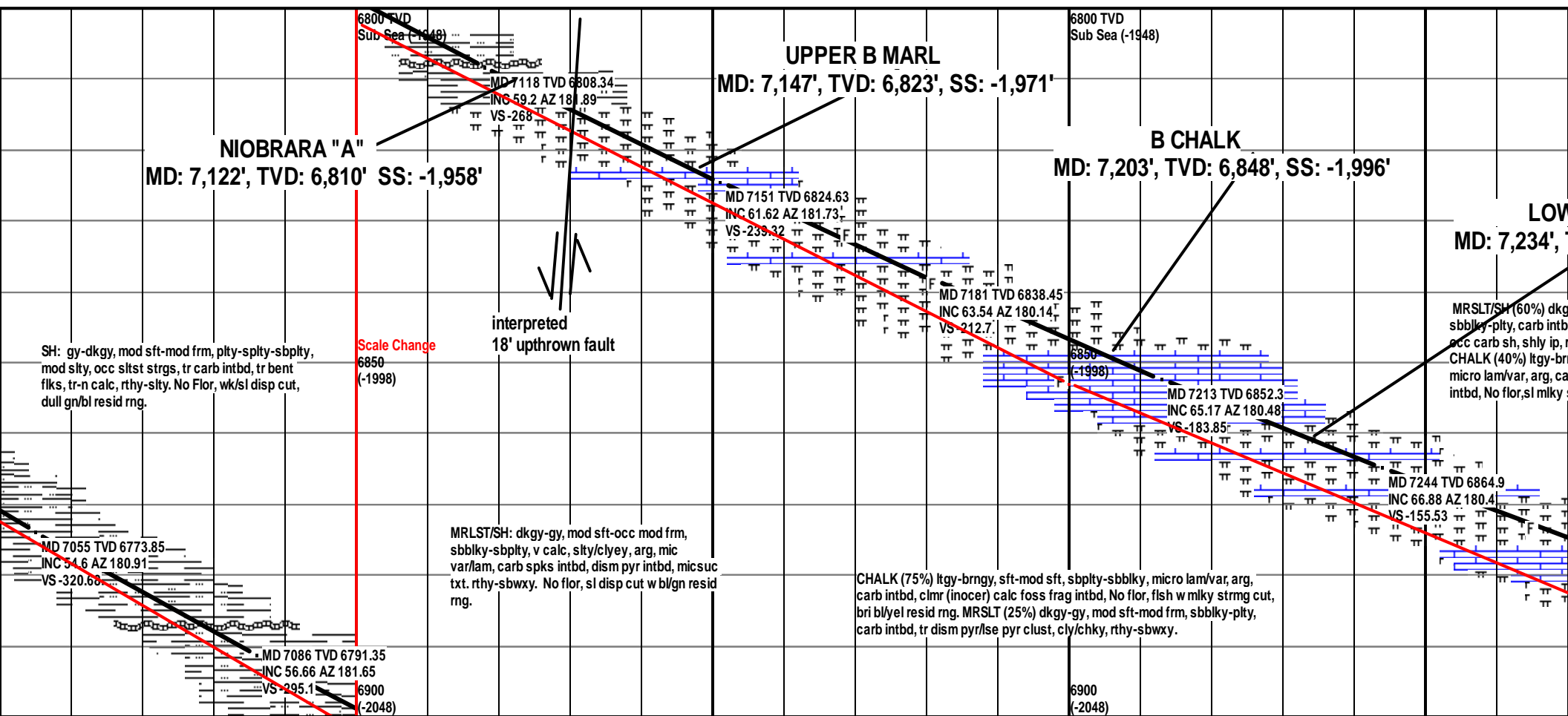
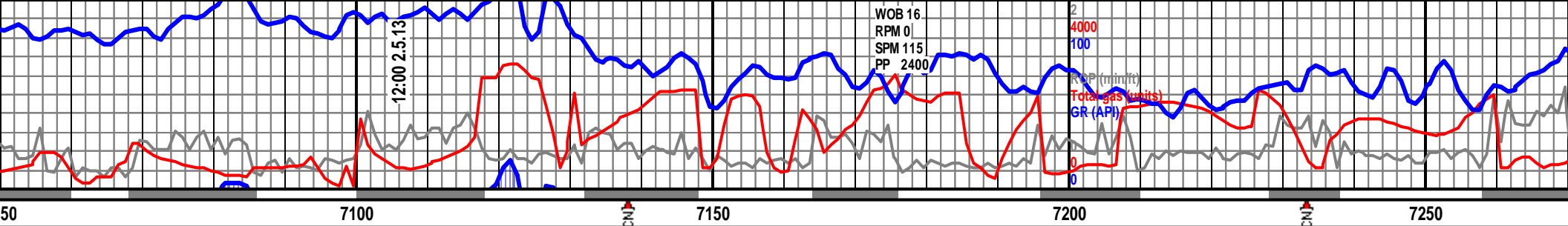
SORTING

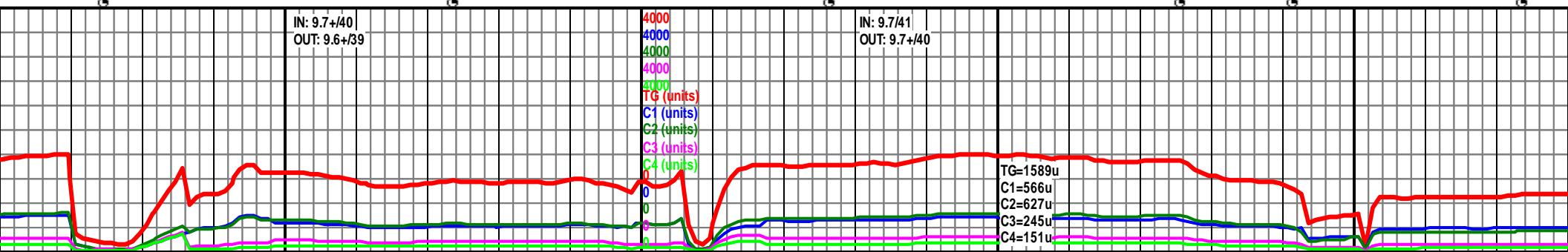
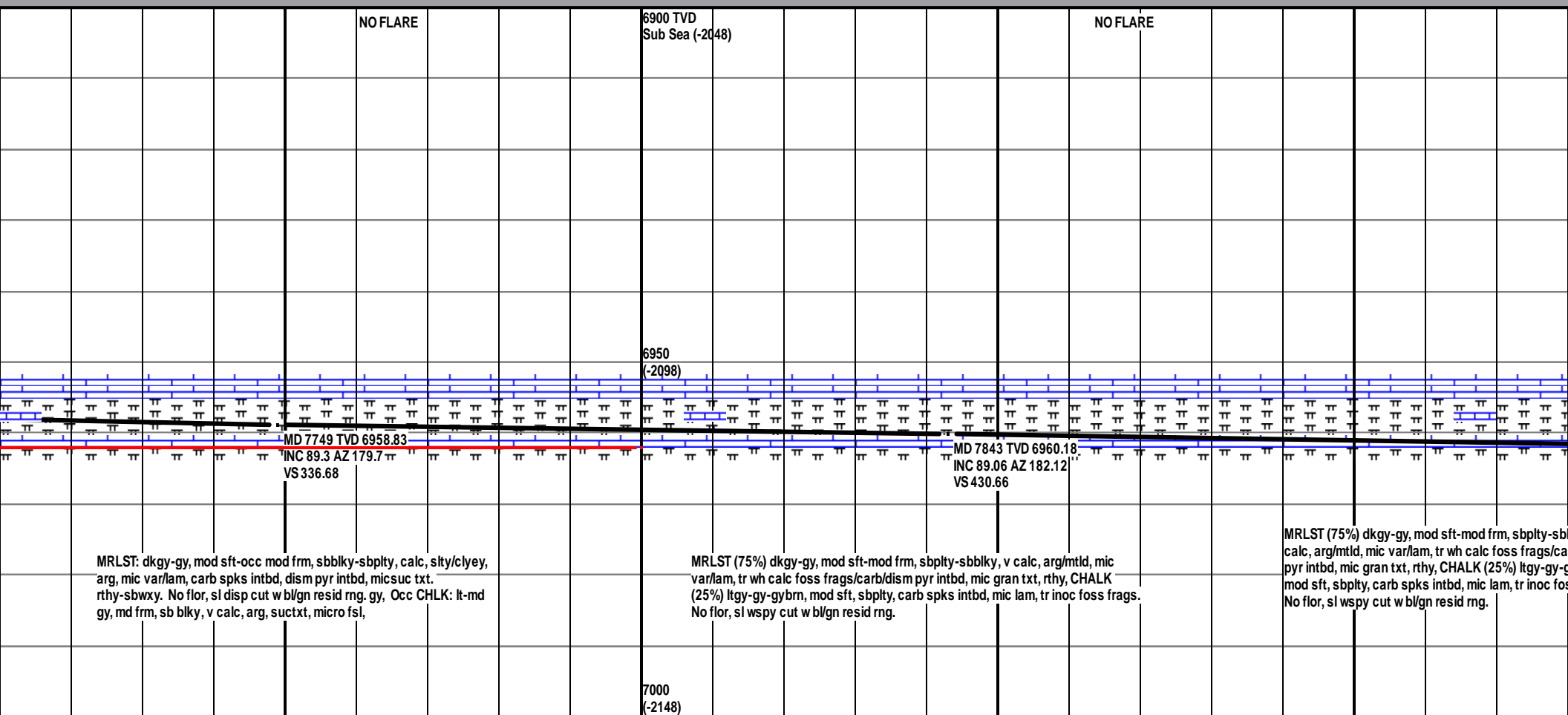
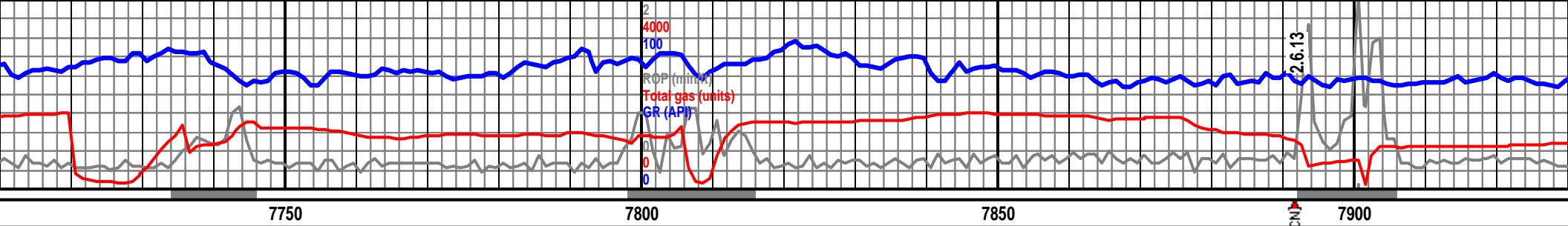
Well
 Moderate
 Poor

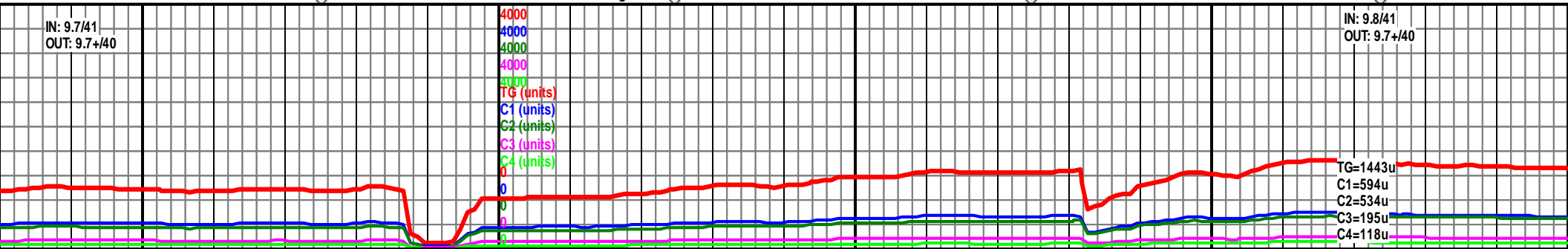
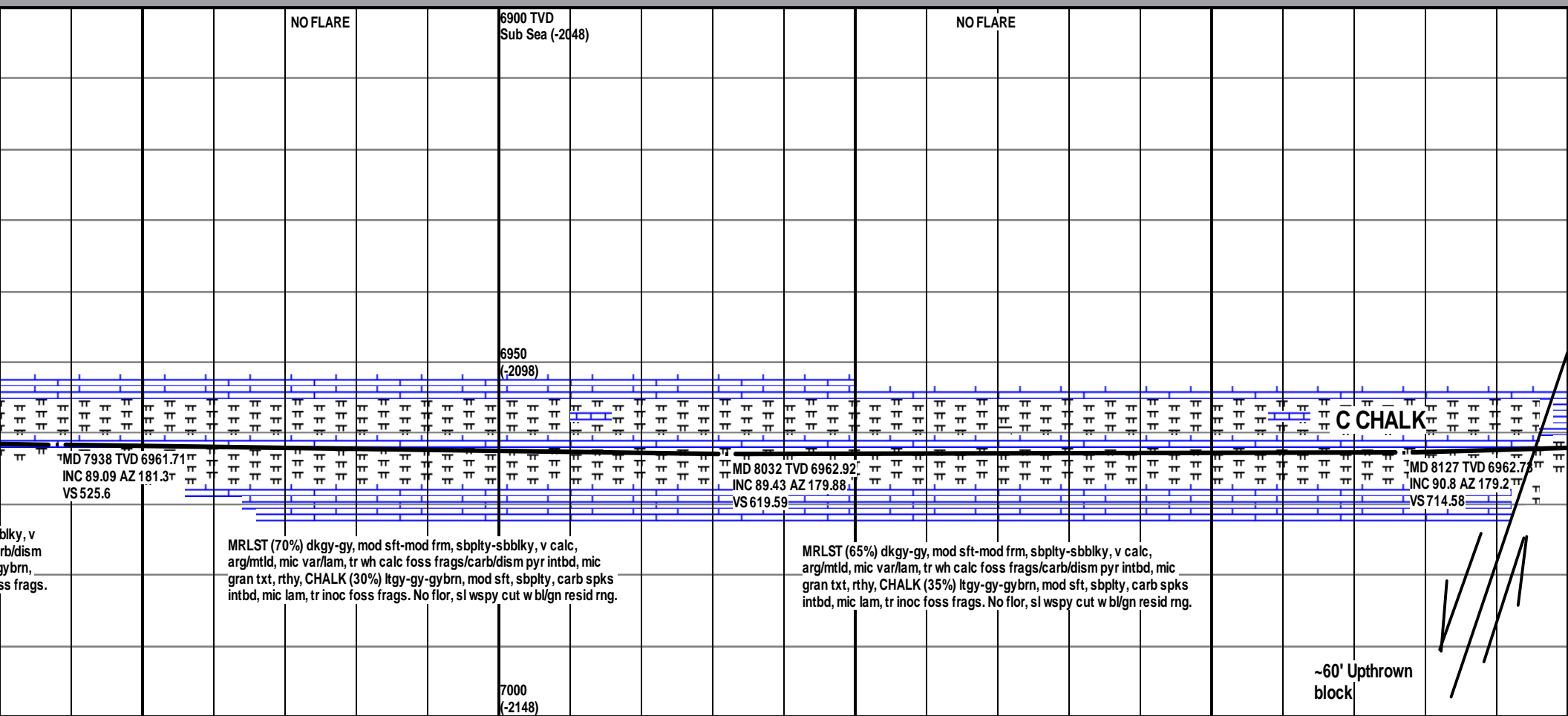
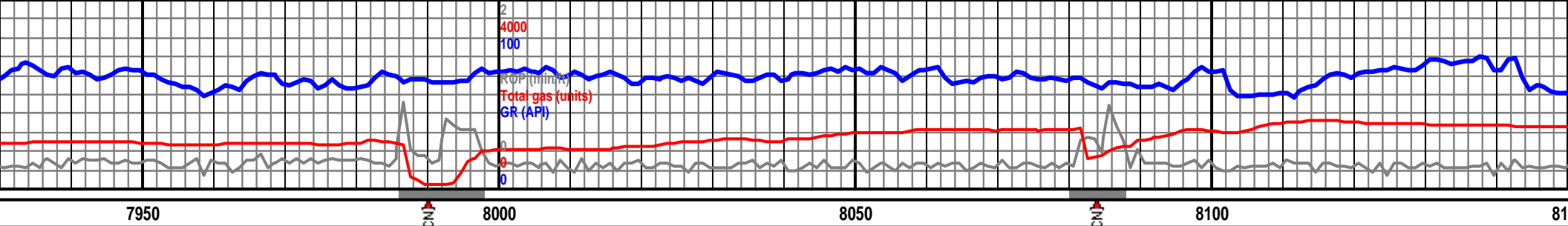


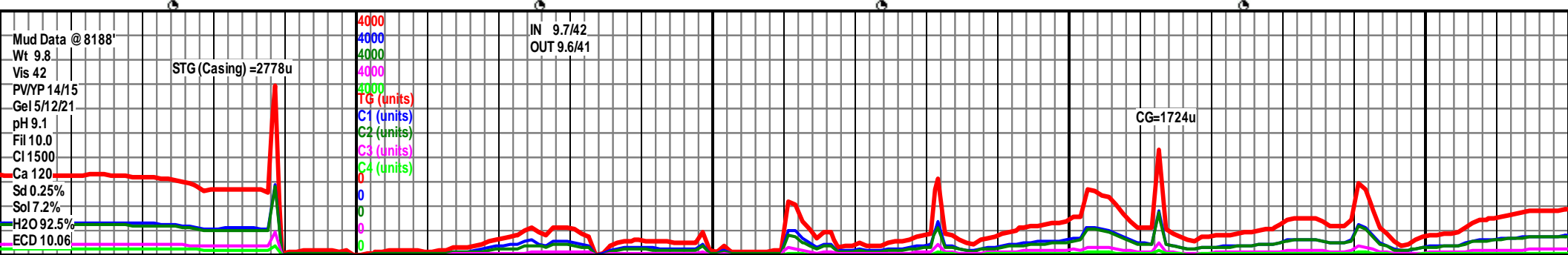
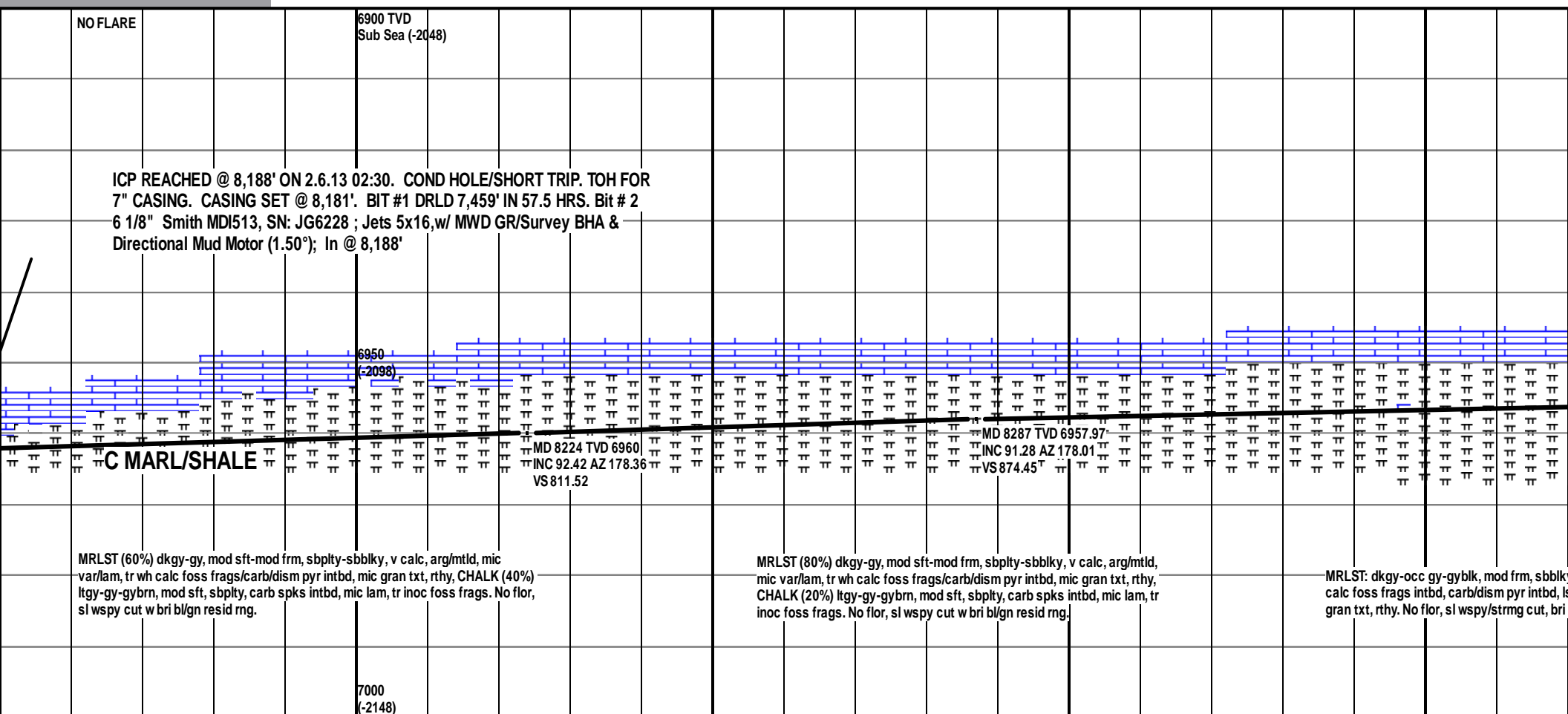
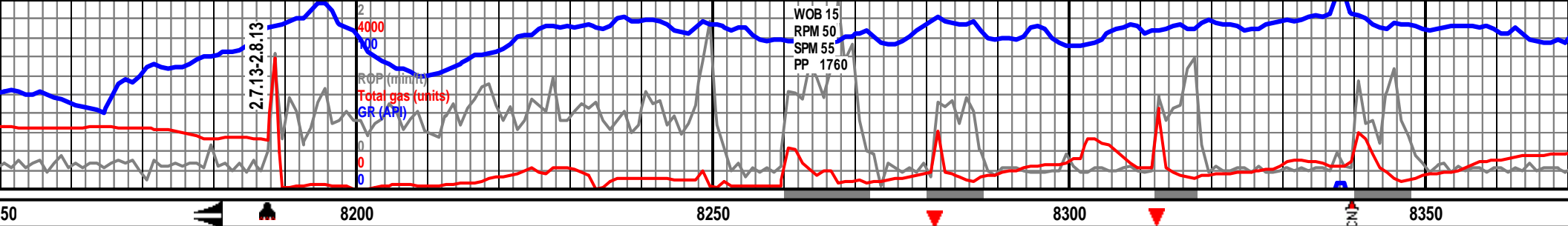


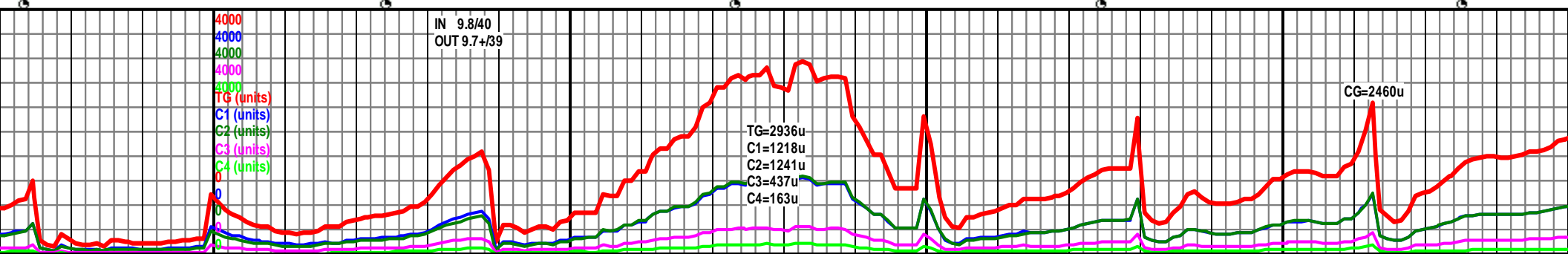
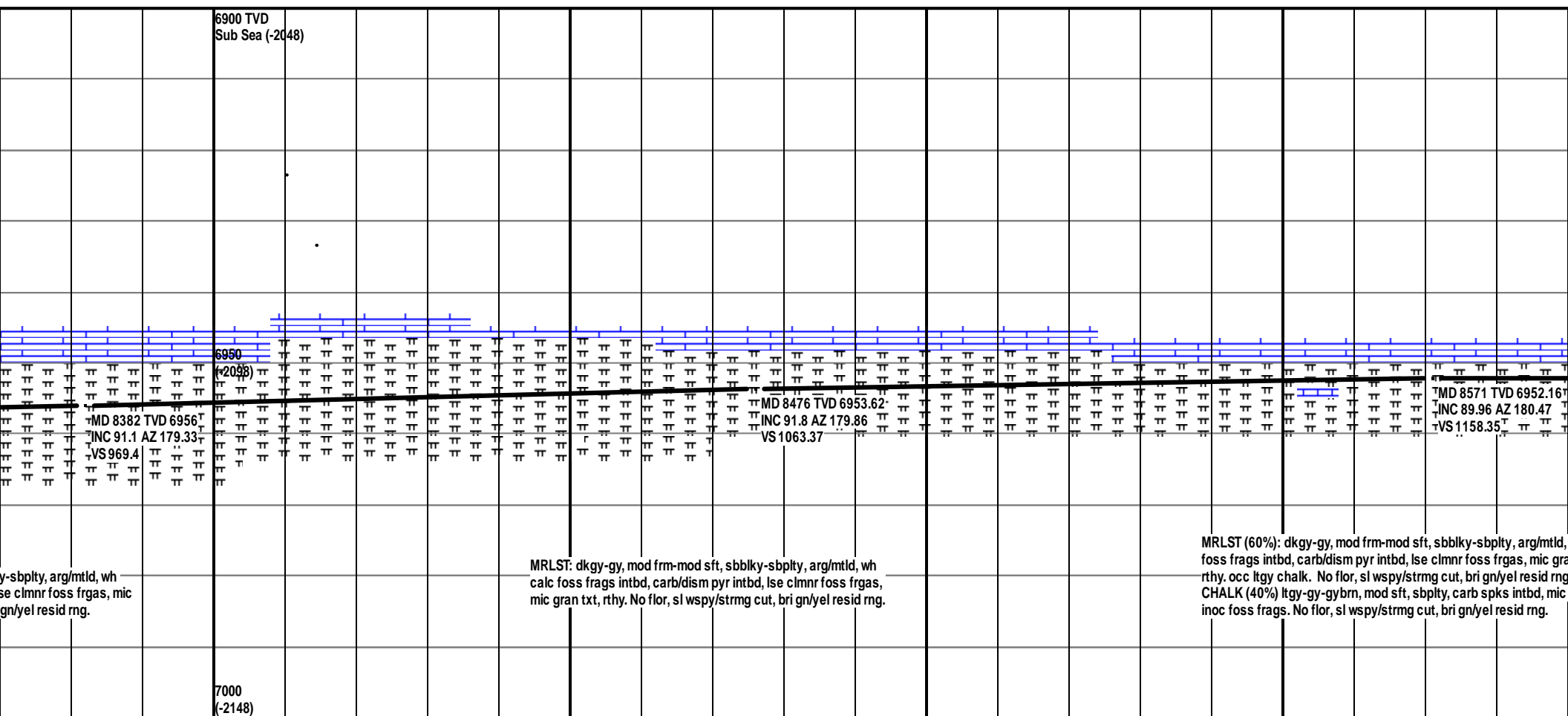
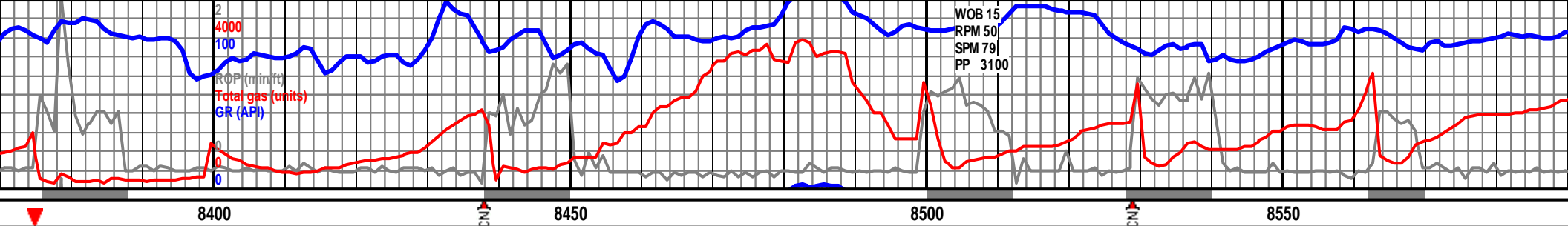


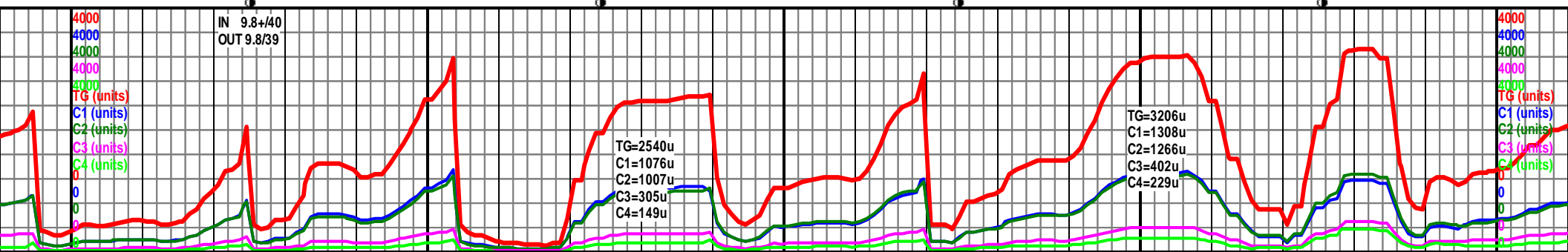
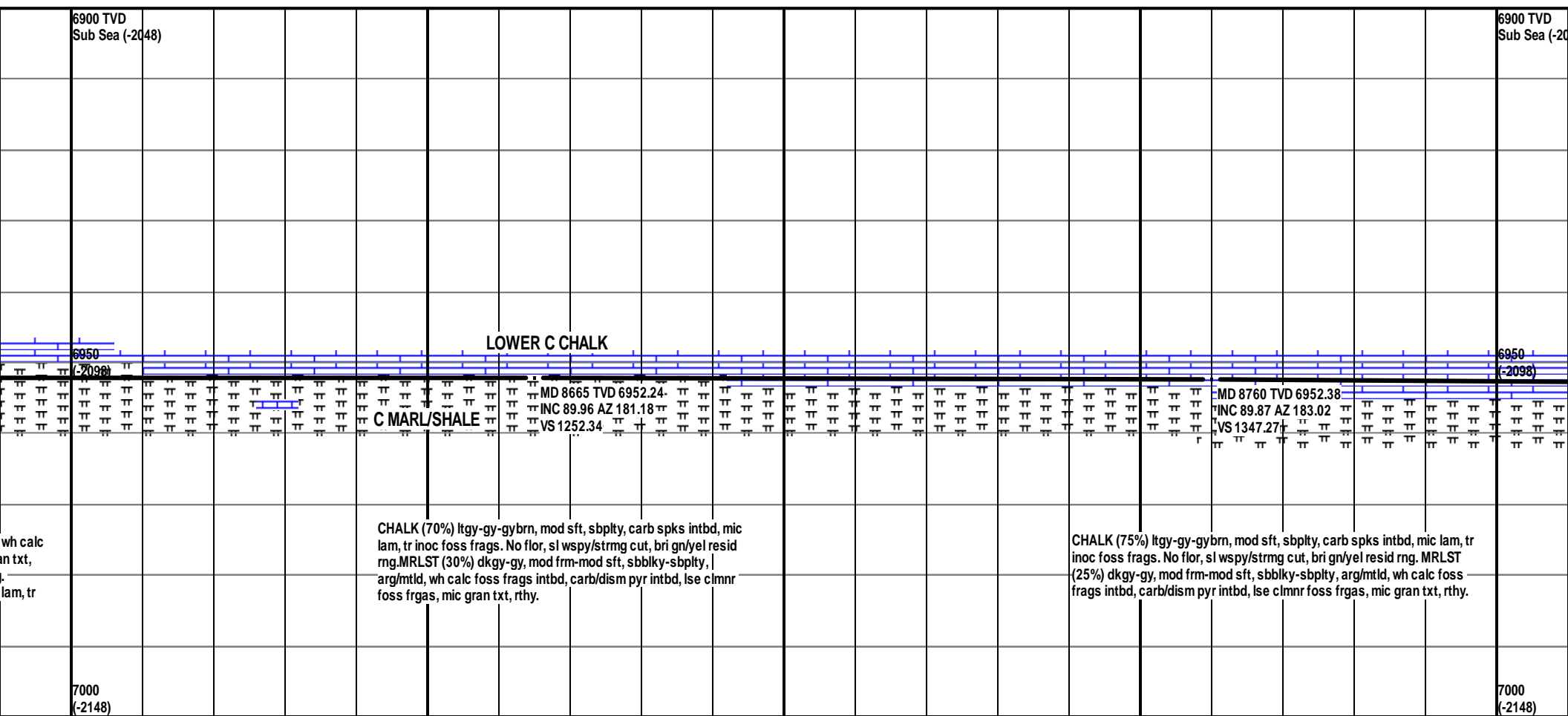
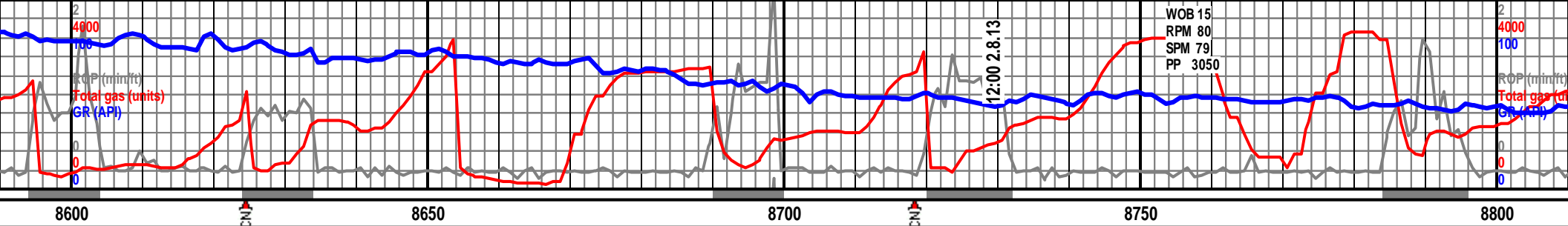


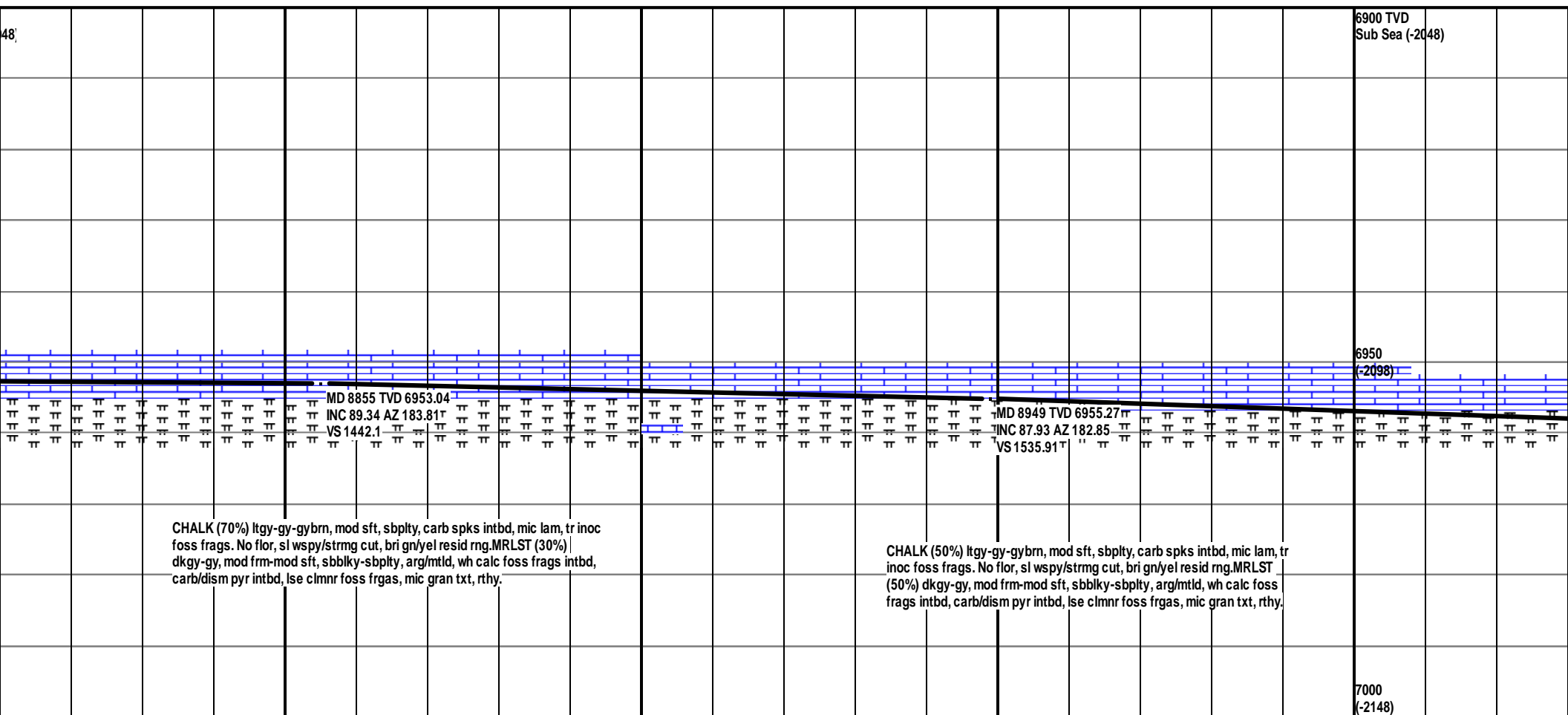
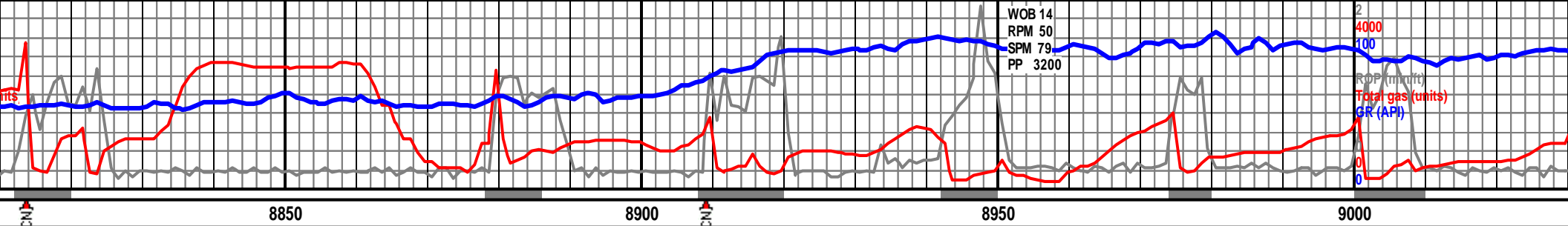






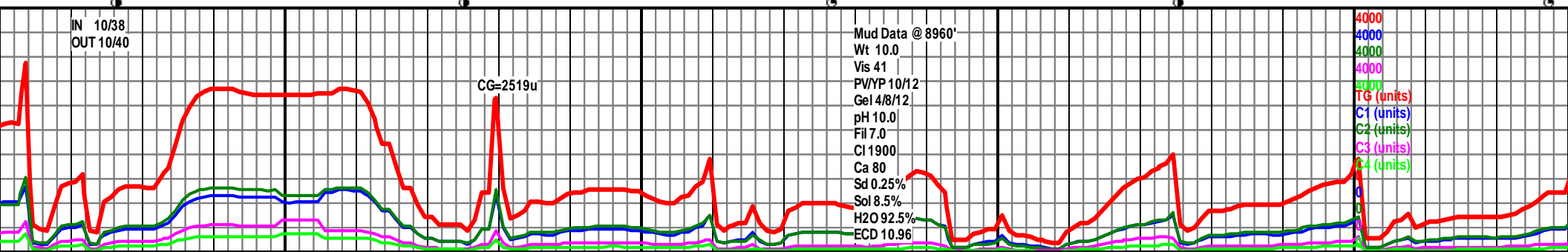


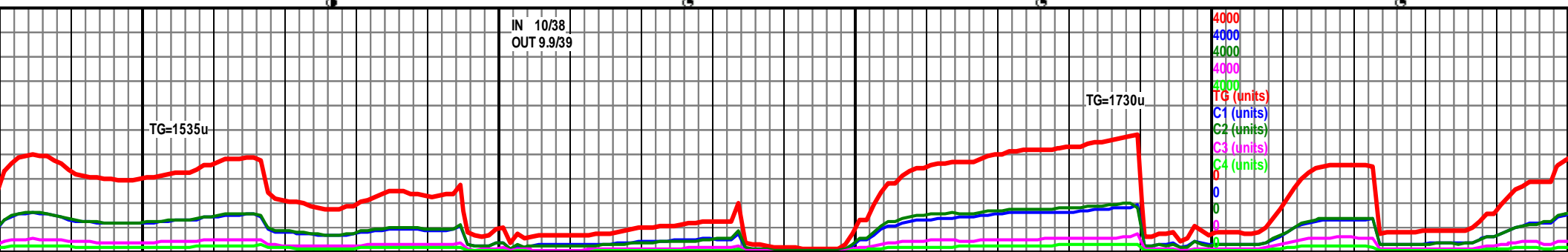
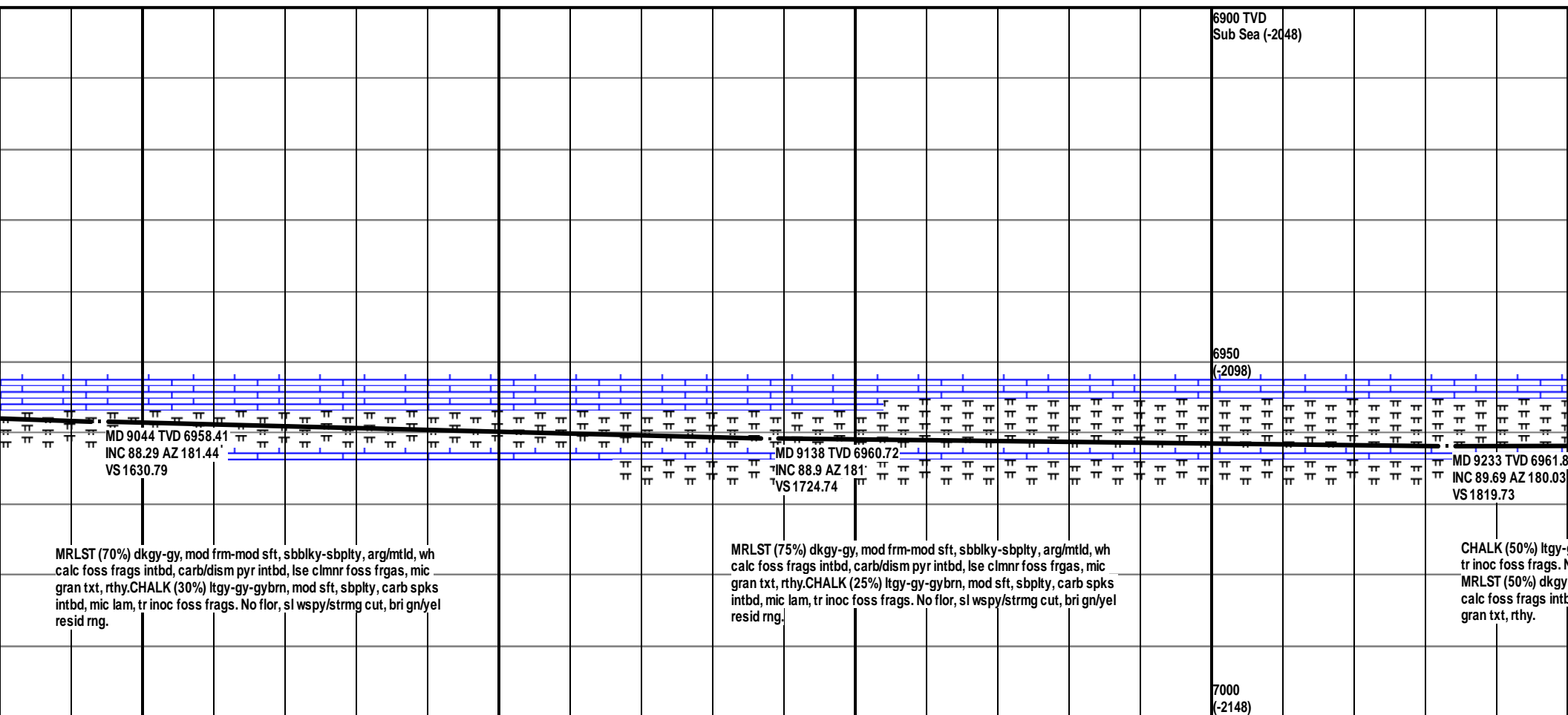
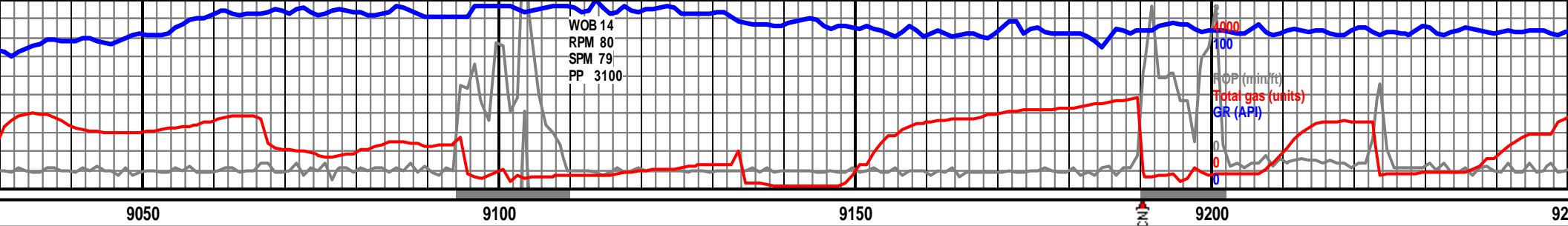


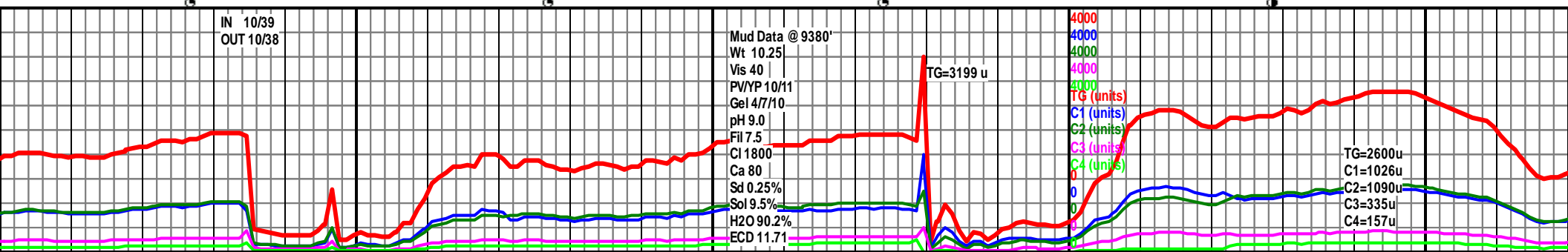
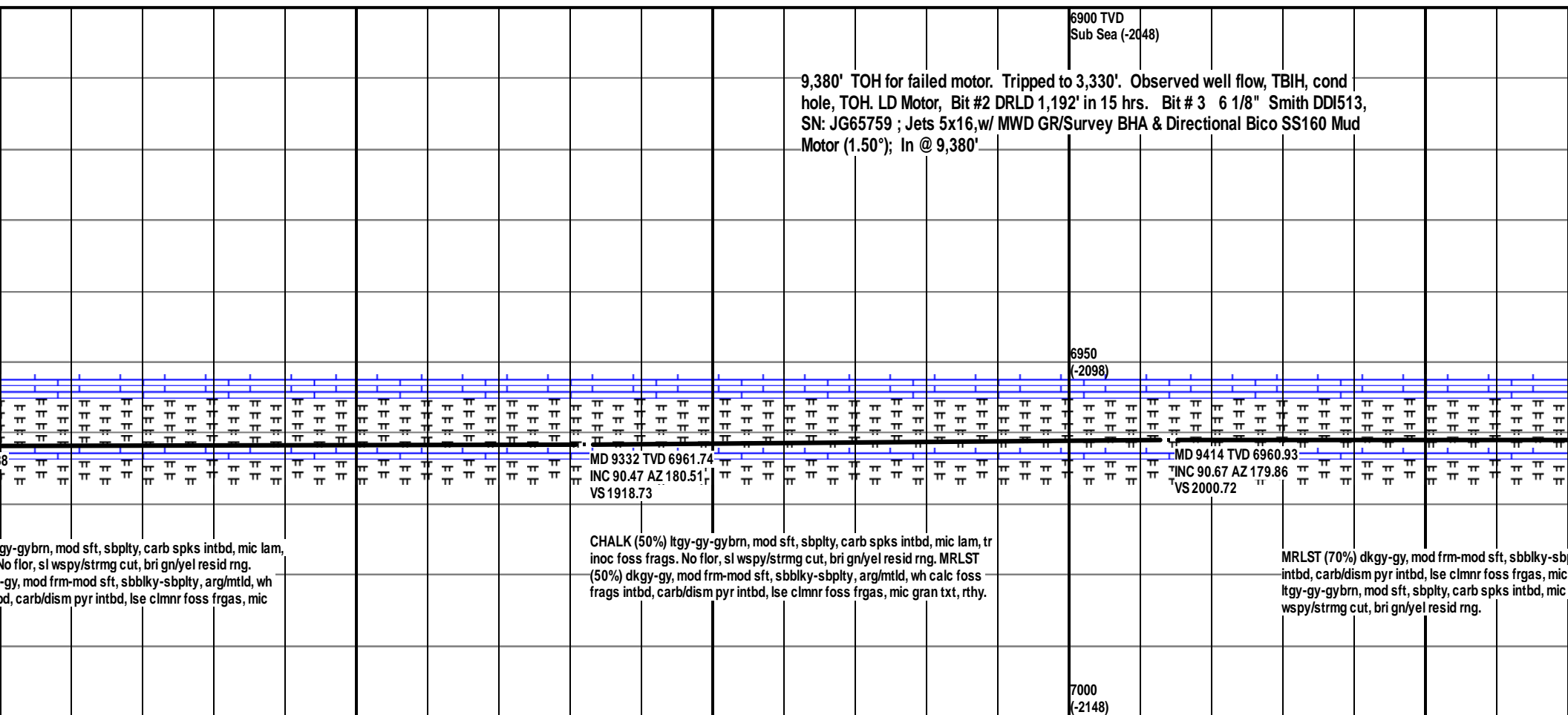
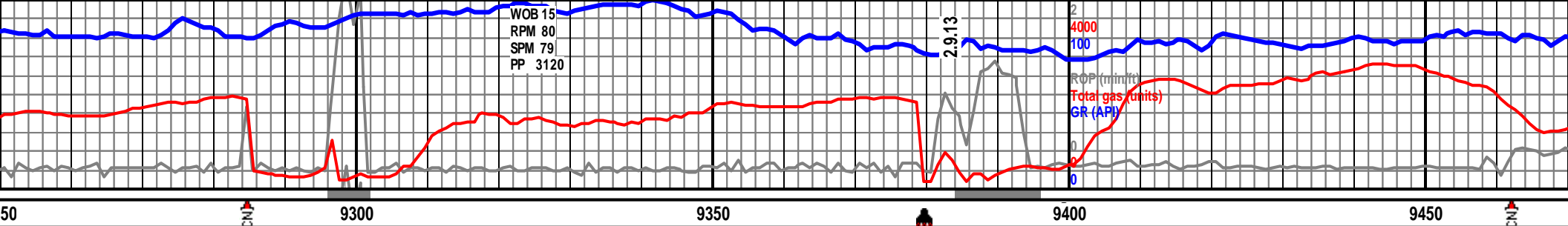


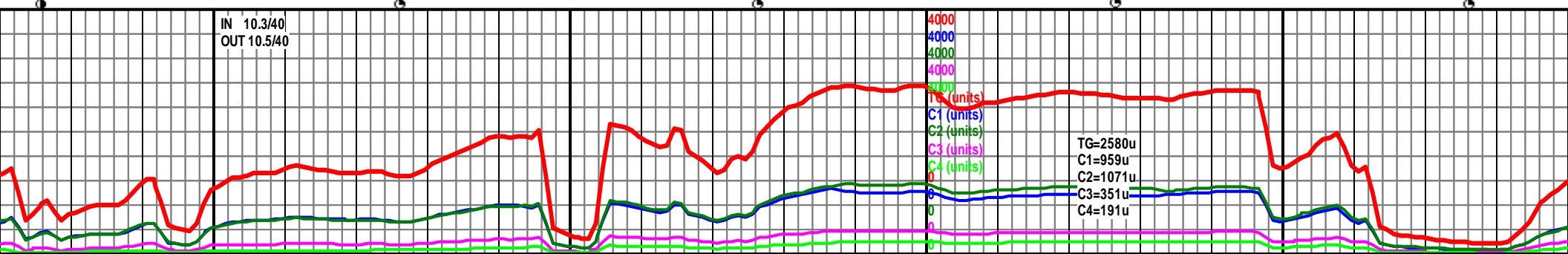
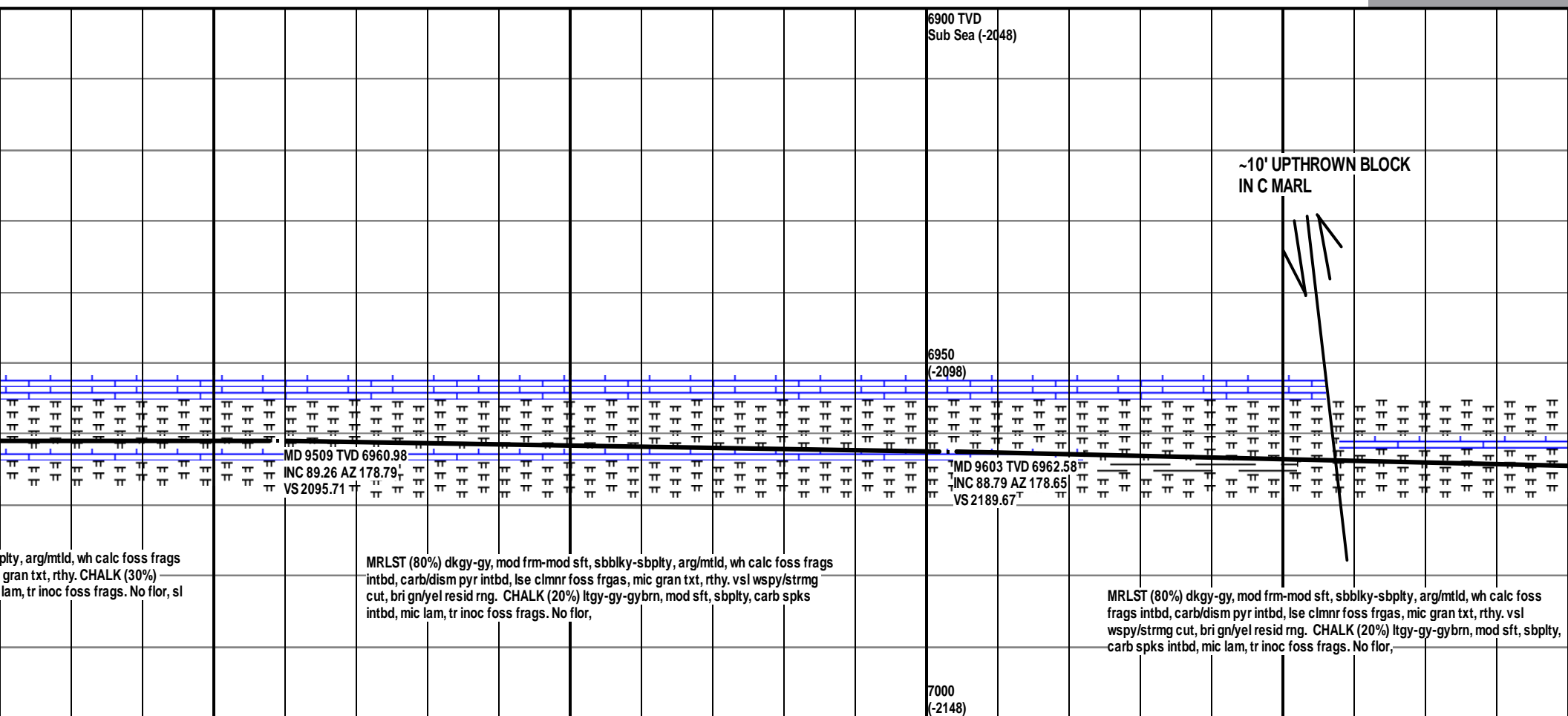
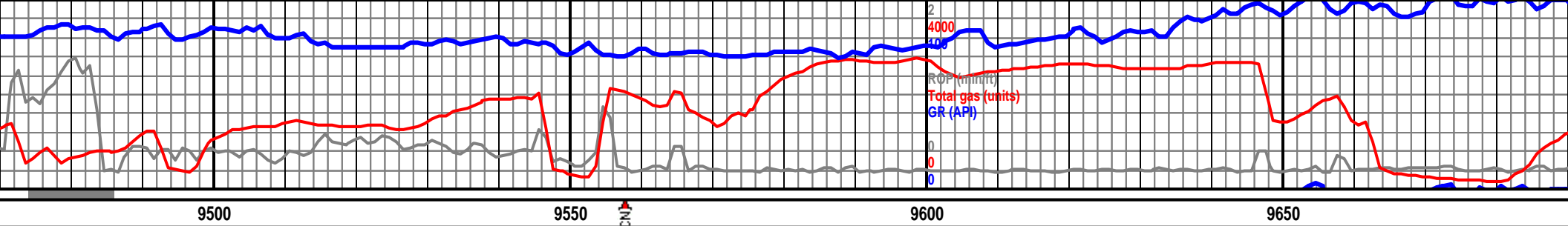
CHALK (70%) ltgy-gy-gybrn, mod sft, sbplty, carb spks intbd, mic lam, tr inoc foss frags. No flor, sl wspy/strmg cut, bri gn/yel resid rng.MRLST (30%) dkgy-gy, mod frm-mod sft, sbbiky-sbplty, arg/mtld, wh calc foss frags intbd, carb/dism pyr intbd, lse clmnr foss frgas, mic gran txt, rthy.

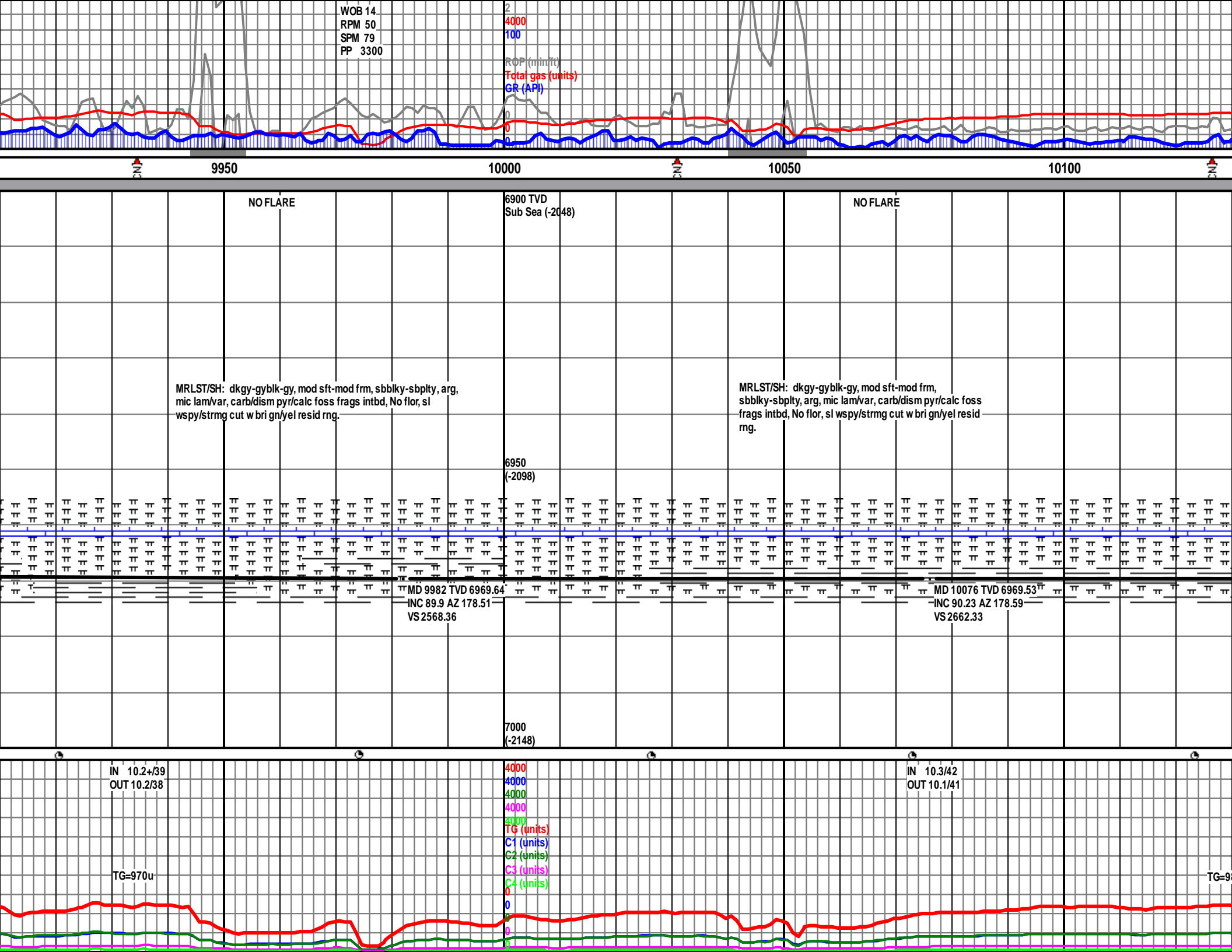
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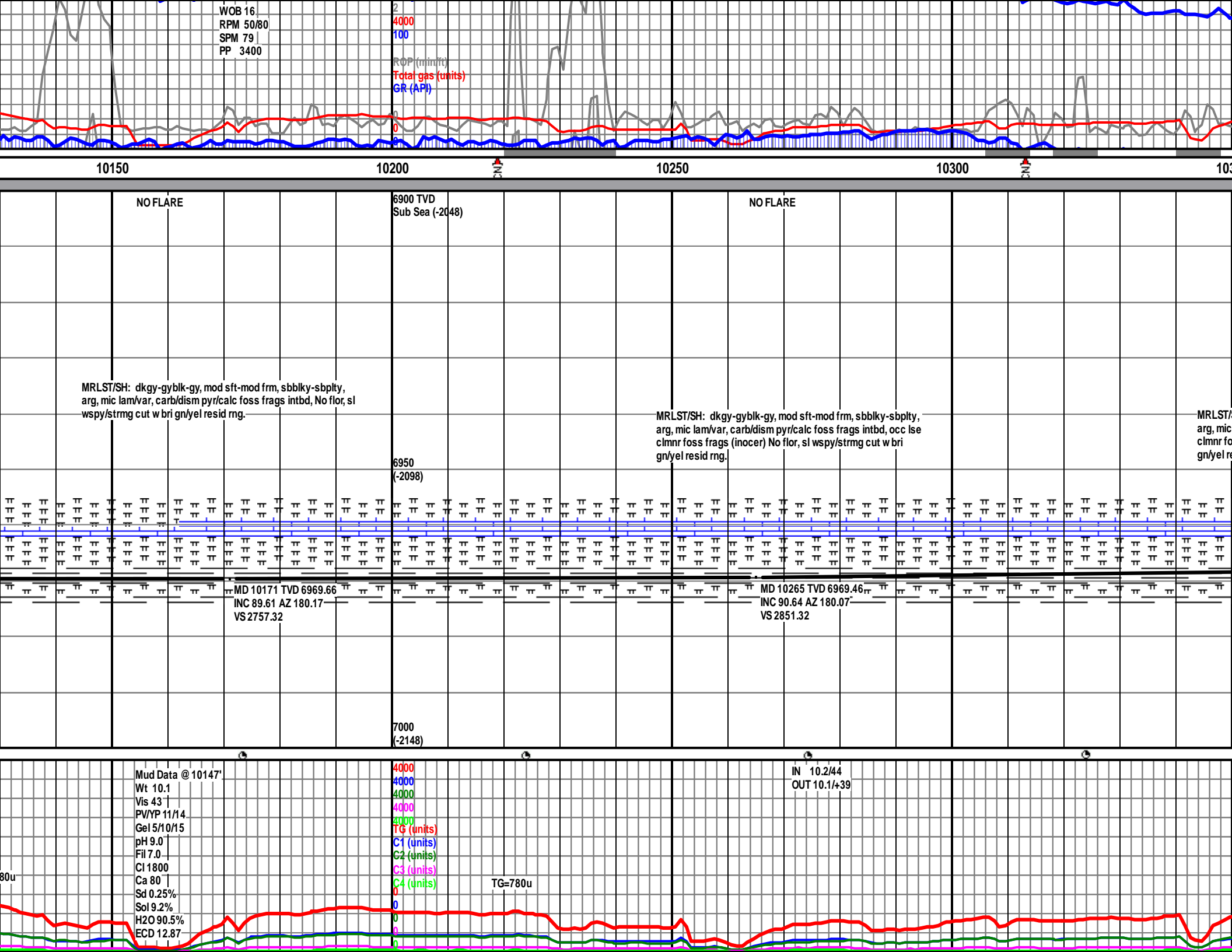


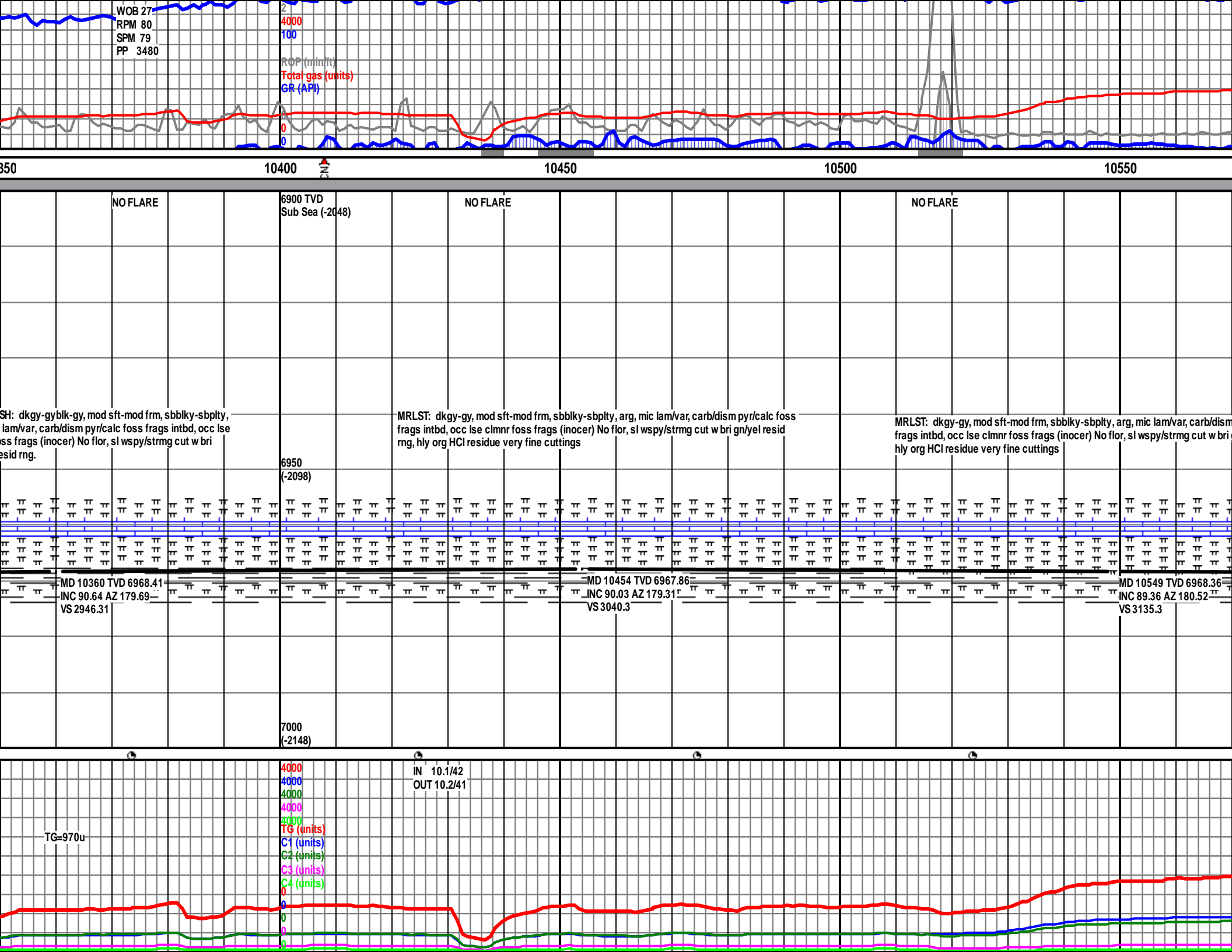


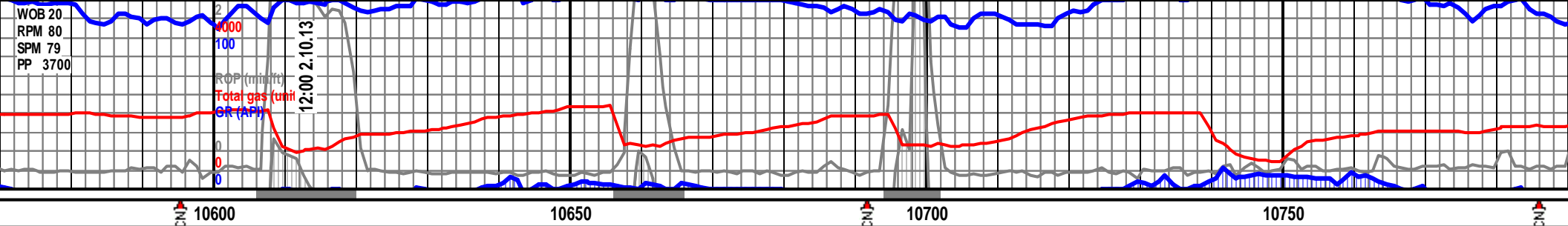




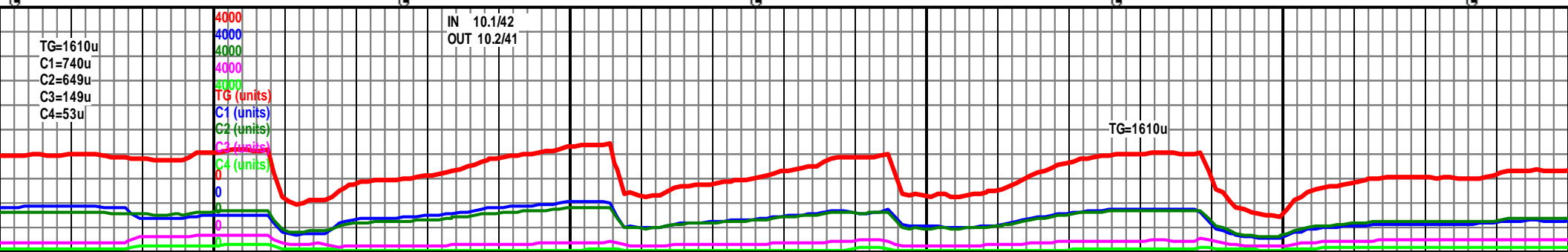


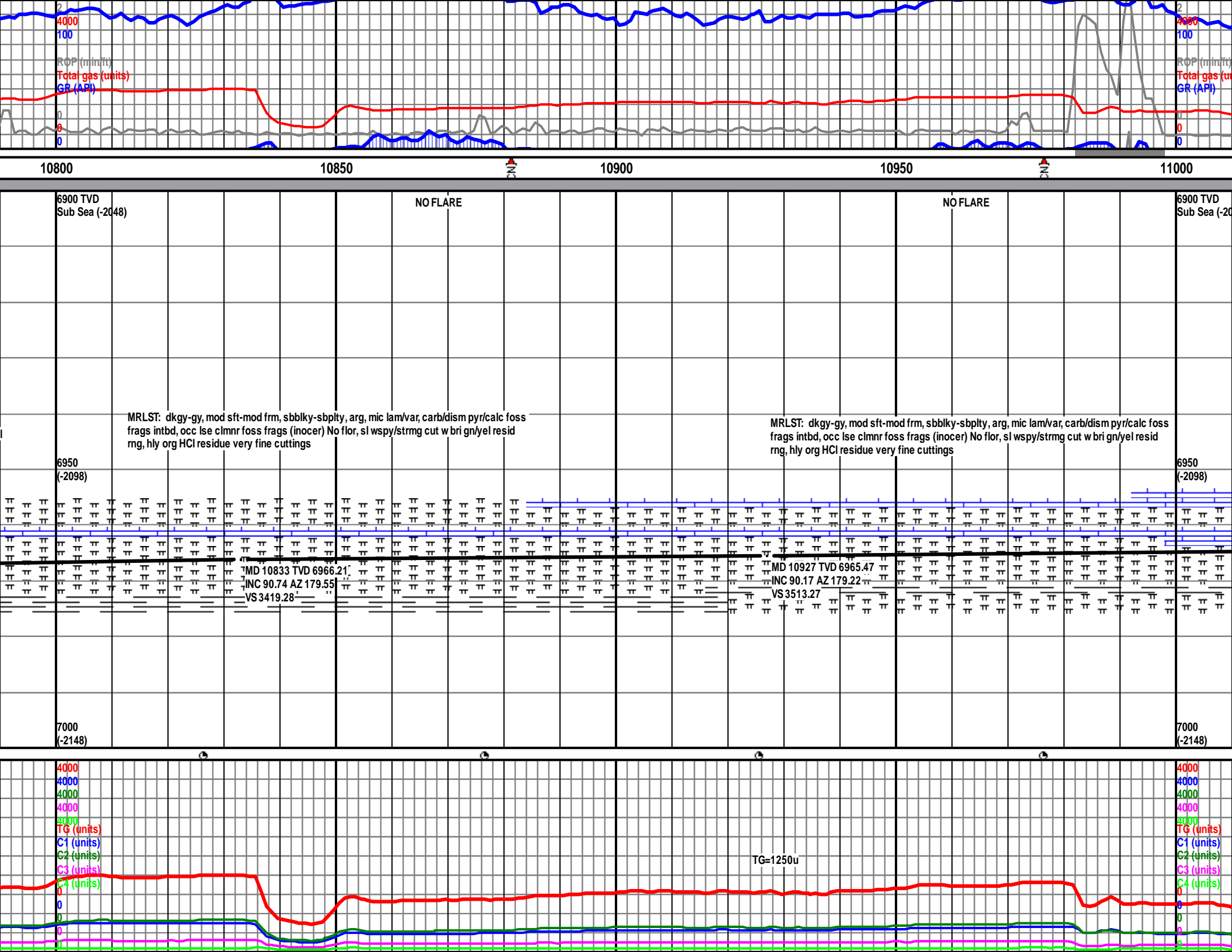


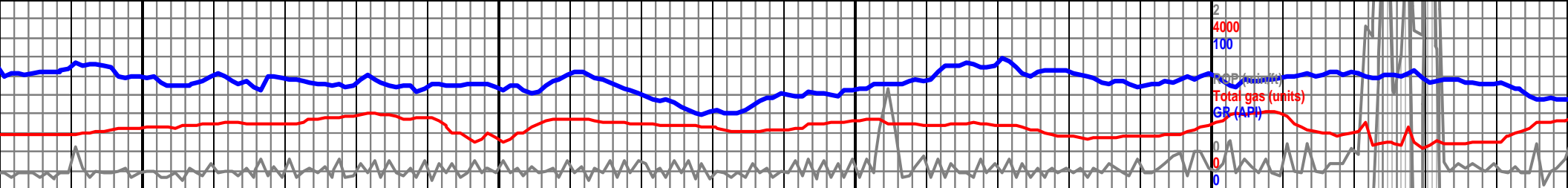




6900 TVD Sub Sea (-2048)										NO FLARE										NO FLARE									
pyr/calc foss gn/yel resid rng,										MRLST: dkgy-gy, mod sft-mod frm, sbblky-sbplty, arg, mic lam/var, carb/dism pyr/calc foss frags intbd, occ lse clmnr foss frags (inocer) No flor, sl wspy/strmg cut w bri gn/yel resid rng, hly org HCl residue very fine cuttings										MRLST: dkgy-gy, mod sft-mod frm, sbblky-sbplty, arg, mic lam/var, carb/dism pyr/calc foss frags intbd, occ lse clmnr foss frags (inocer) No flor, sl wspy/strmg cut w bri gn/yel resid rng, hly org HCl residue very fine cuttings									
6950 (-2098)										MD 10643 TVD 6968.71 INC 90.2 AZ 180.13 VS 3229.3										MD 10738 TVD 6967.68 INC 91.04 AZ 180.24 VS 3324.29									
7000 (-2148)																													







11250

11300

11350

11400

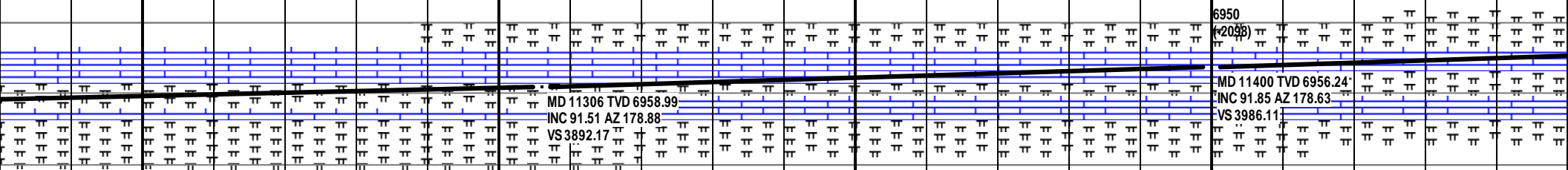
11450

NO FLARE

NO FLARE

6900 TVD
Sub Sea (-2048)

Mud Motor Stalling
while sliding



MD 11306 TVD 6958.99
INC 91.51 AZ 178.88
VS 3892.17

6950
(-2098)

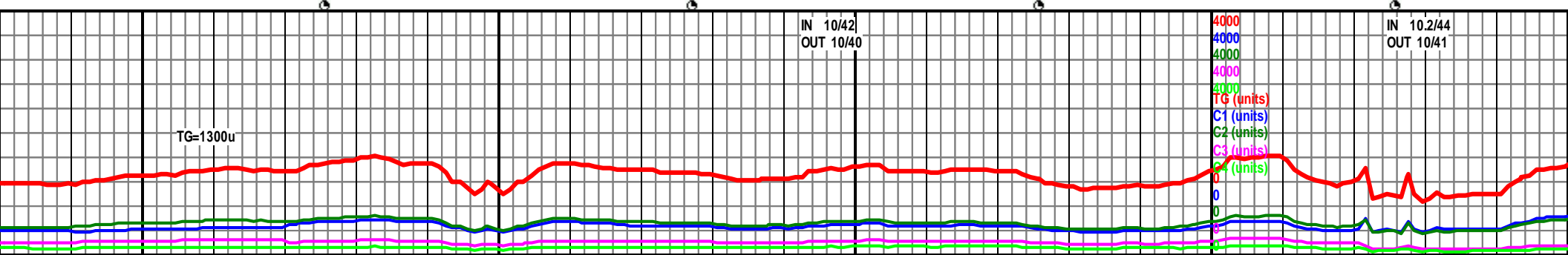
MD 11400 TVD 6956.24
INC 91.85 AZ 178.63
VS 3986.11

K (40%) ltgy-gy-gybrn, mod sft, sbpity, carb spks intbd, mic lam, tr inoc foss frags. No
wspy/strmg cut, bri gn/yel resid rng. MRLST (60%) dkgy-gy, mod frm-mod sft,
-sbpity, arg/mtld, wh calc foss frags intbd, carb/dism pyr intbd, lse clmnr foss frgas,
an txt, rthy hly org HCl residue

CHALK (80%) ltgy-gy-gybrn, mod sft, sbpity, carb spks intbd, mic lam, tr inoc foss frags. No
flor, sl wspy/strmg cut, bri gn/yel resid rng. MRLST (20%) dkgy-gy, mod frm-mod sft,
sbbiky-sbpity, arg/mtld, wh calc foss frags intbd, carb/dism pyr intbd, lse clmnr foss frgas,
mic gran txt, rthy hly org HCl residue

CHALK (50%) ltgy-gy-gybrn, mod sft, sbpity,
No flor, sl wspy/strmg cut, bri gn/yel resid rng
sbbiky-sbpity, arg/mtld, wh calc foss frags in
frgas, mic gran txt, rthy hly org HCl residue

7000
(-2148)

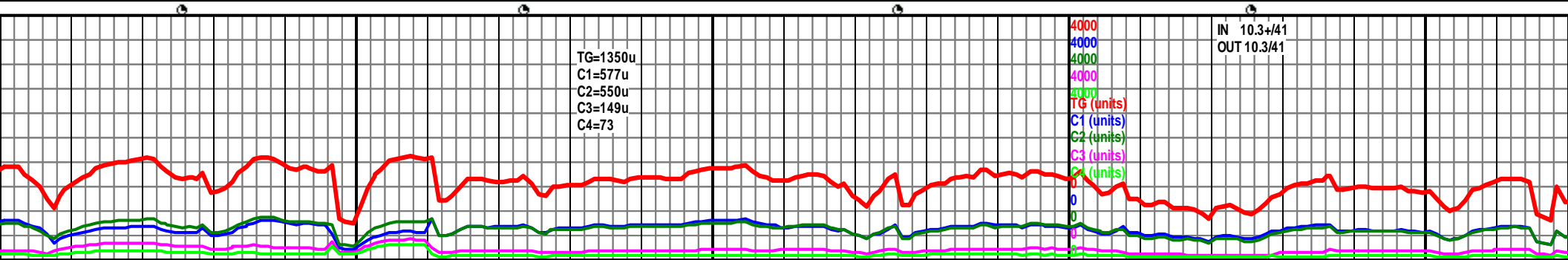
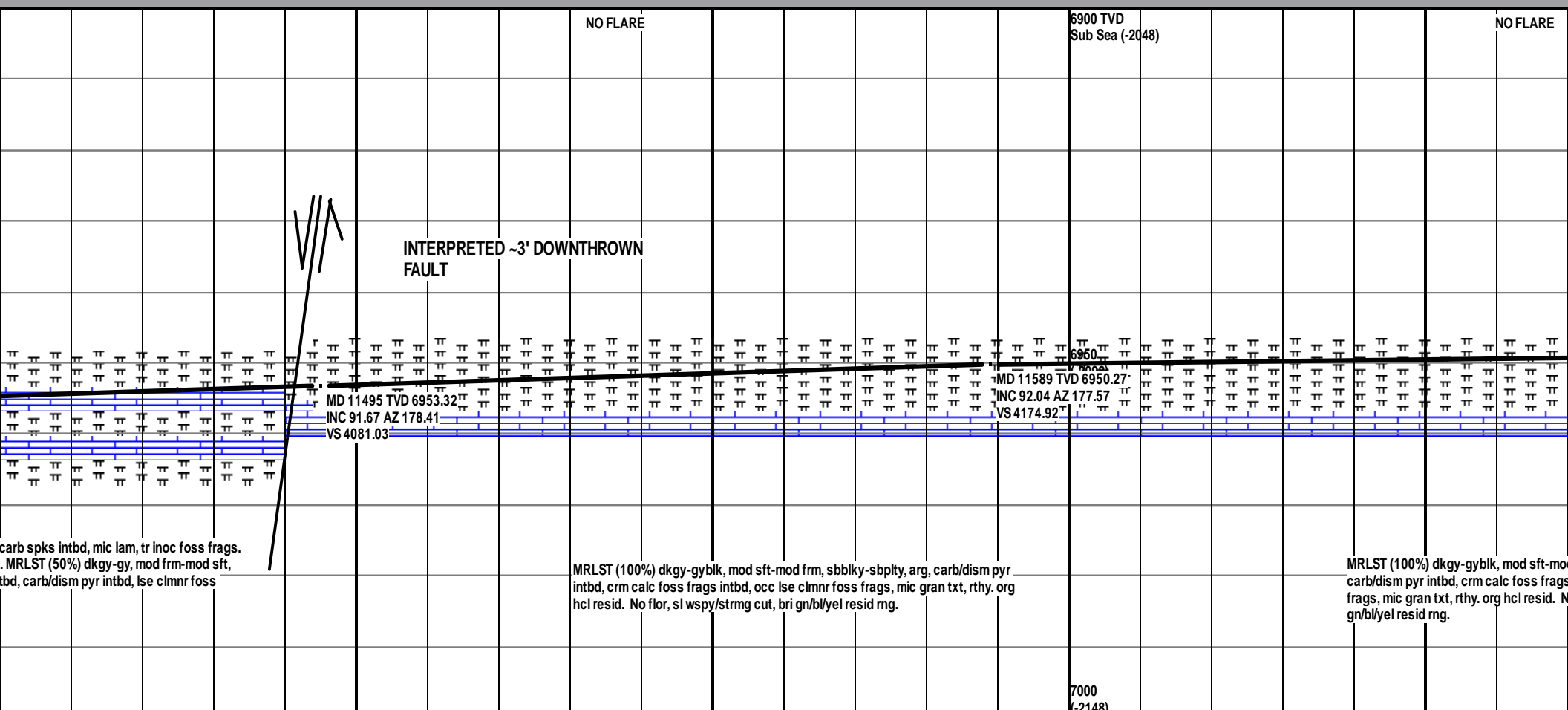
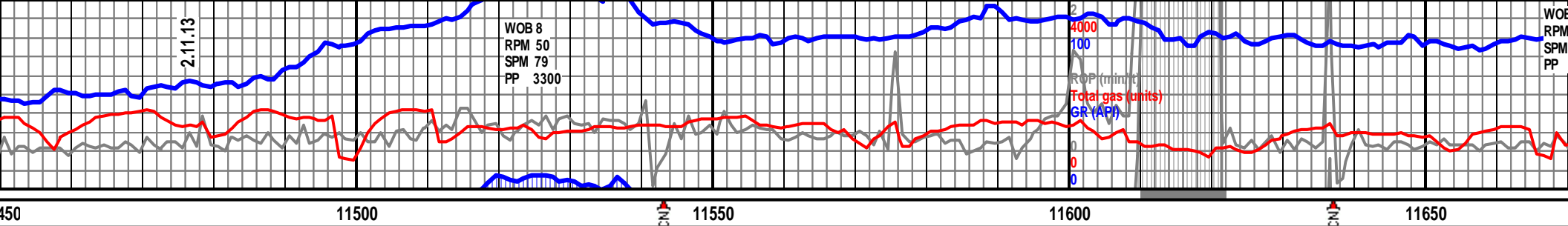


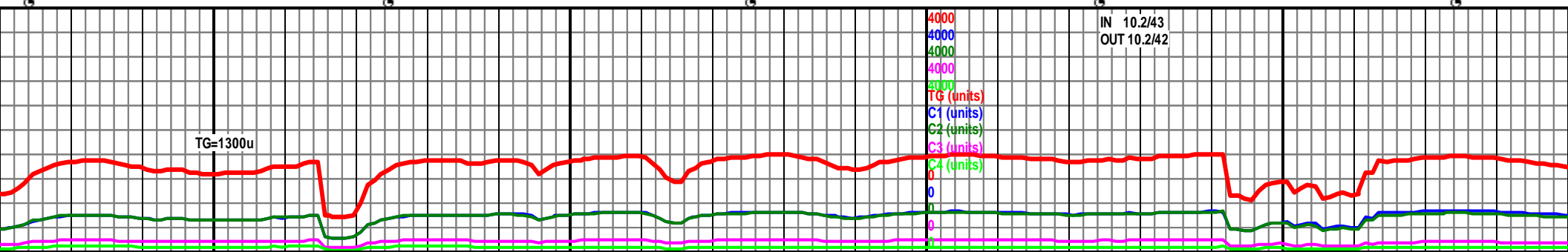
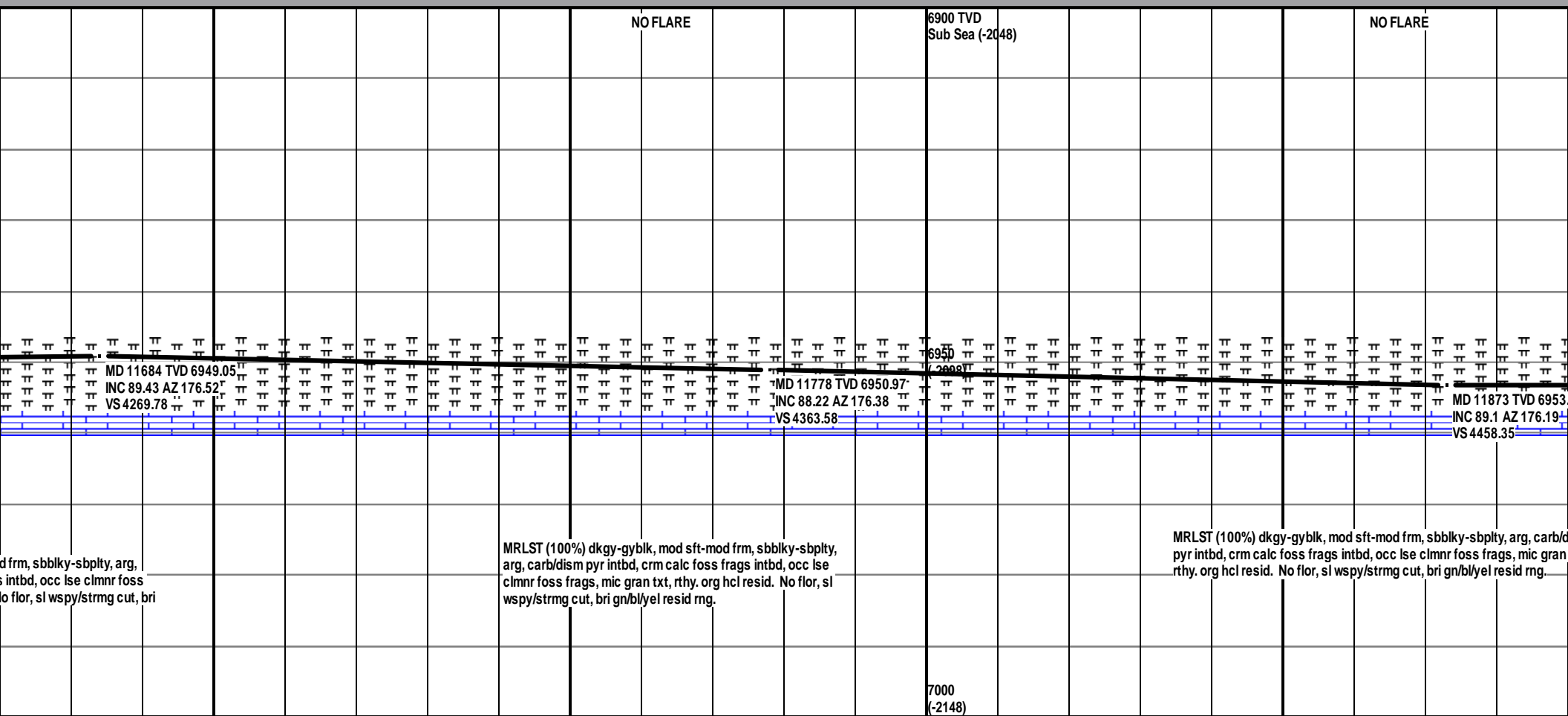
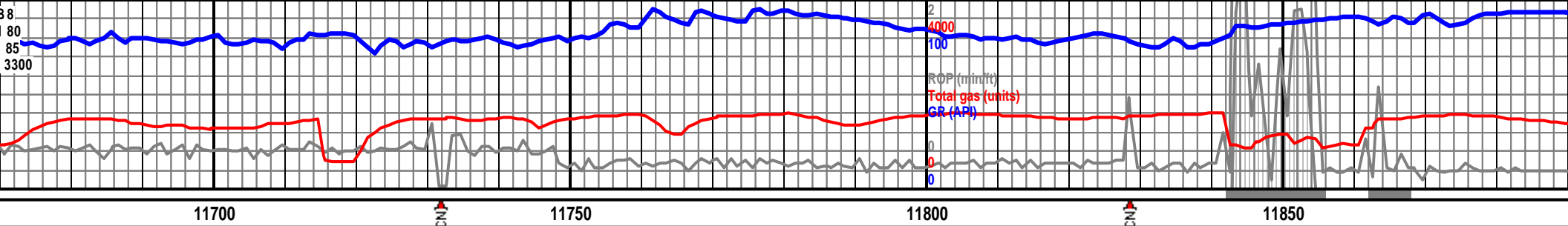
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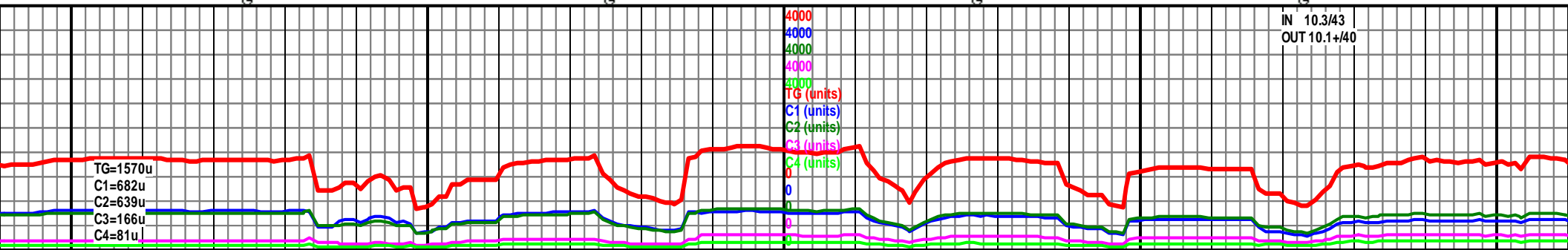
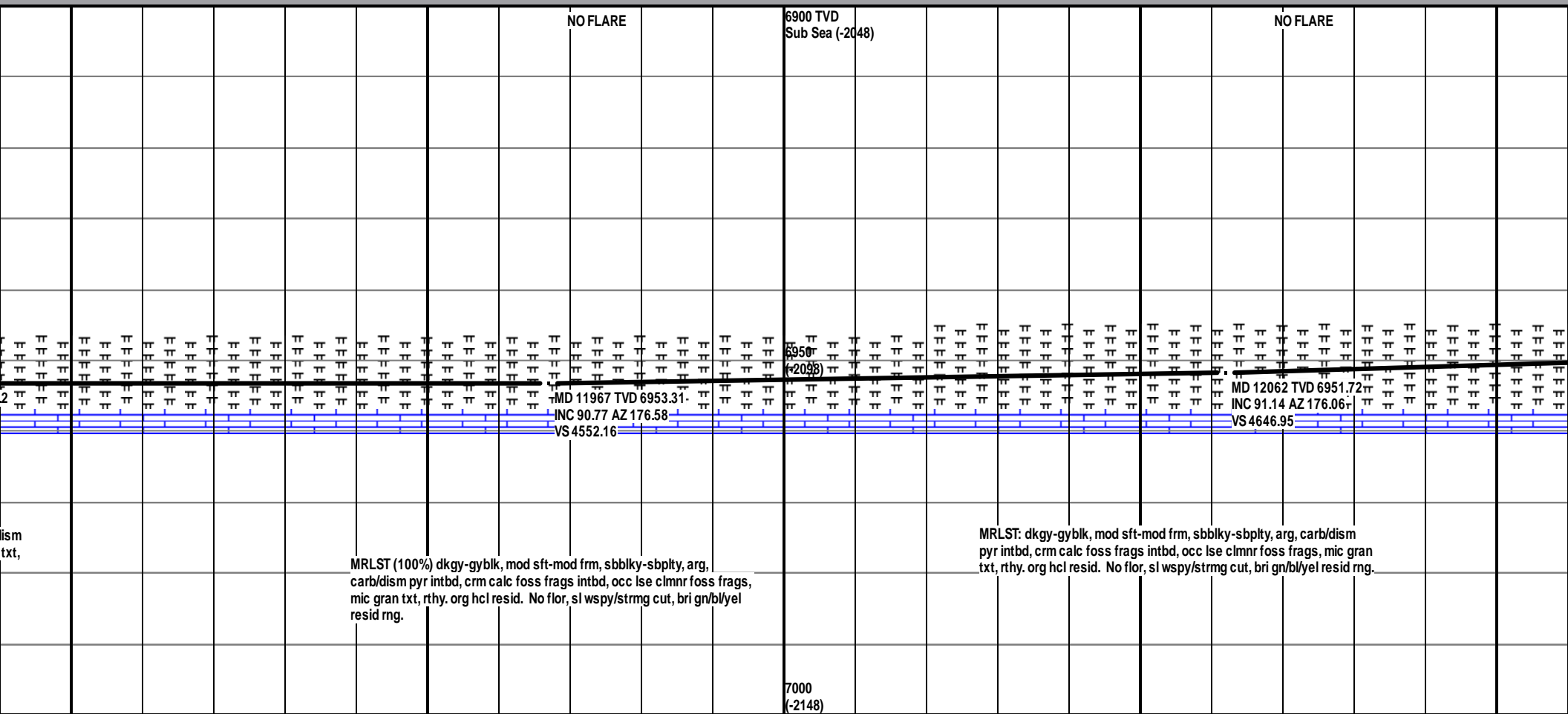
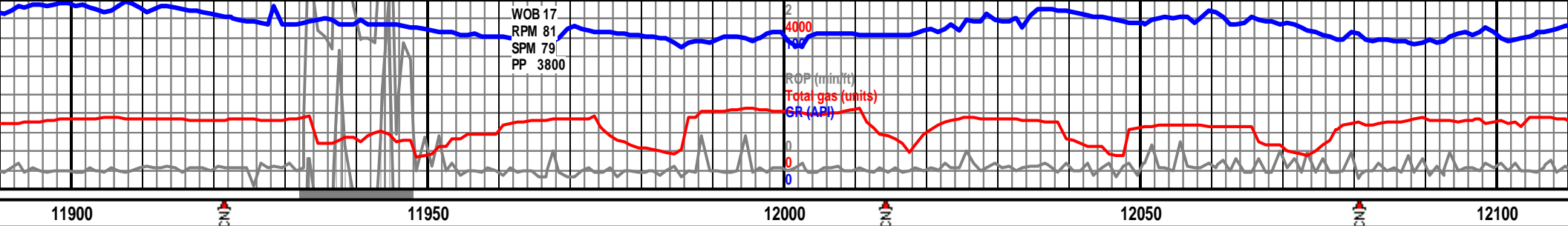
IN 10/42
OUT 10/40

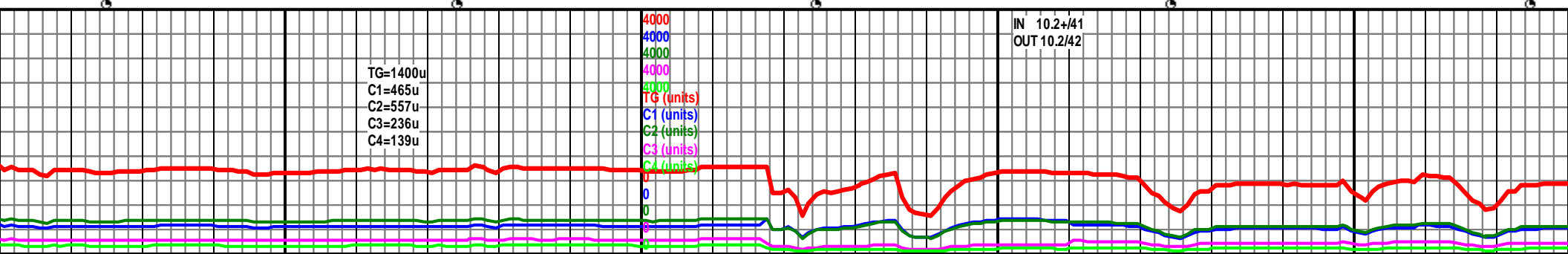
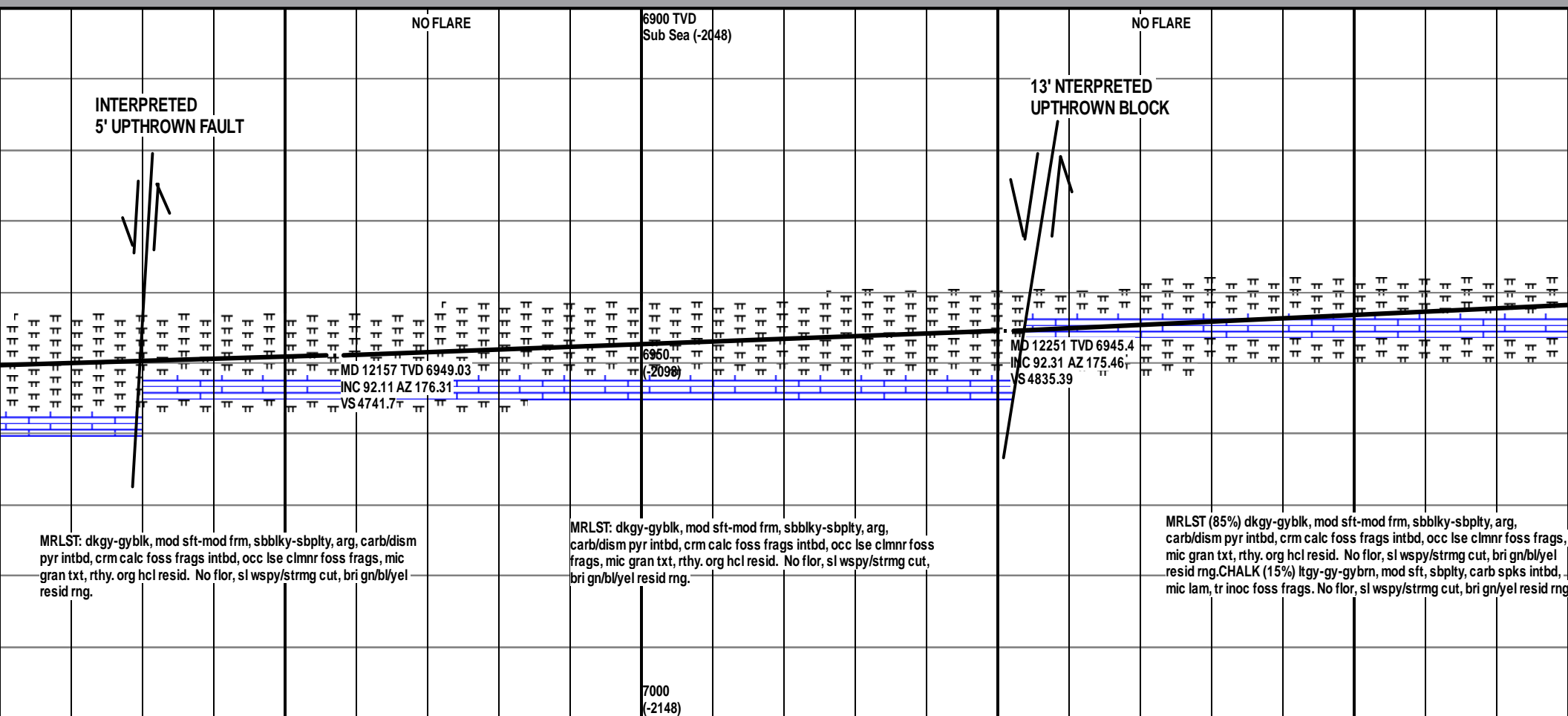
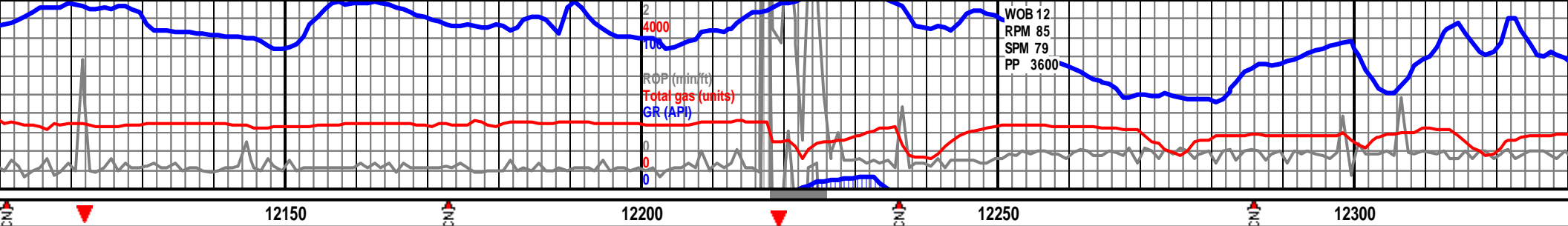
IN 10.2/44
OUT 10/41

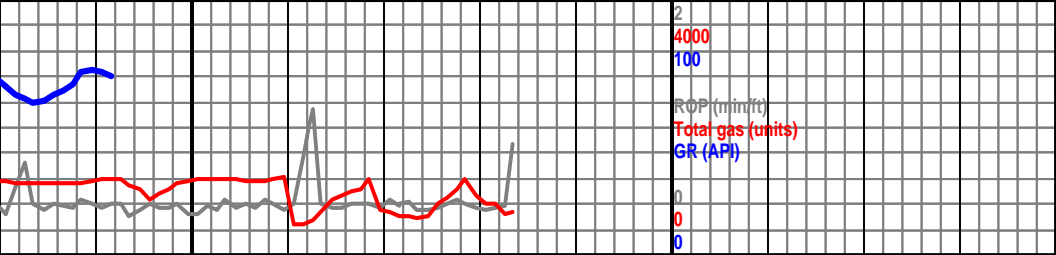
4000
4000
4000
4000
4000
4000
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)











12350



12400

6900 TVD
Sub Sea (-2048)

BOTTOM HOLE LOCATION
Sec 1, T2N, R65W
562.56 FSL x 1600.53' FEL

PROJECTED TO BIT SURVEY

MD 12336 TVD 6941.7

INC 92.69 AZ 174.46

VS 4919.98

MD 12384 TVD 6939.42

INC 92.69 AZ 174.46

VS 4967.44

6950
(-2098)

TD OF 12,384' REACHED ON 2.11.13. @
13:00. CIRCULATE BOTTOMS UP, BIT
#3 DRILLED 3,004' IN 41 HRS.,
MONITORED GAS UNTIL 4.5" LINER
WAS SET @ 12,374' on 2/14/13.

THANK YOU
GOOLSBY BROTHERS & ASSOCIATES

STEVEN SCHINDLER
ALAN SEELING

7000
(-2148)

Mud Data @ 12384'

Wt 10.75

Vis 42

PV/YP 13/15

Gel 6/13/17

pH 8.7

Fil 7.0

Cl 2000

Ca 60

Sd 0.25%

Sol 12.0%

H2O 86.5%

ECD 13.25

4000
4000
4000
4000
4000
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
0
0
0
0
0
0