

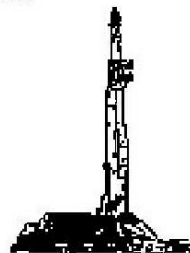
GOOLSBY BROTHERS
and associates, inc.

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: USA FED 01N-36HZ

Location: Section 36, T3N, R66W, Weld County, CO.

License Number: API: 05-123-36845, AFE: 2063656

Spud Date: July 24, 2013

Surface Coordinates: SE/SE Sec 36, T3N, R66W 460' FNL & 530' FEL

Lat: 40.176343 N Long: -104.718272 W

Bottom Hole Coordinates: Sec 36, T3N, R66W

Lat: 40.187910 N Long: -104.718642 W

Ground Elevation (ft): 4,985

Logged Interval (ft): 6,610'

To: 11,677'

K.B. Elevation (ft): 5,010

Total Depth (ft): 11,677'

Formation: Pierre shales / sands, Niobrara "B" Target

Type of Drilling Fluid: Polymer-Water

Region: Wattenberg

Drilling Completed: July 30, 2013

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Anadarko Petroleum Corporation

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

Denver, CO 80202

CO Geologist, Tom Birmingham

GEOLOGIST

Name: Alan Seeling/Marek Ciesnik

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

Address: 575 Union Blvd.

Suite 208,

Lakewood CO. 80228

E-logs

MWD Gamma: 951' - 11,677'
Resistivity: xxxx'-xxxx'

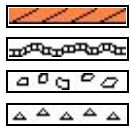
Casing

9 5/8" Surface Casing (IPSCO 36# J55) set @ 951'.
7" Intermediate Casing (IPSCO 26# P110) set @ 7,587'.
4 1/2" Production Liner set @xxxx'

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, Rick Oman, David Wells
- 3) Mud Company: Halliburton, Randal Phipps
- 4) Directional Drilling: Scientific Drilling
Directional Drillers: Ian Ensell, John Noakes.
MWD: Joshua Denning, Mohamed Sharker.
- 5) Gas Equipment: Mudlogging Systems Inc.
by Terra Services
Redbox # ML-419

ROCK TYPES



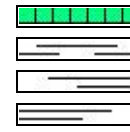
Anhy
Bent
Brec
Cht



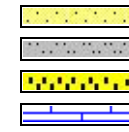
Cyst
Coal
Oil sat.
Congl



Dol
Gyp
Lmst
Mrlst



Salt
Shale
Shcol
Shgy



Ss
Sltst
Ss
Chalk



Carb sh
Slt 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
 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

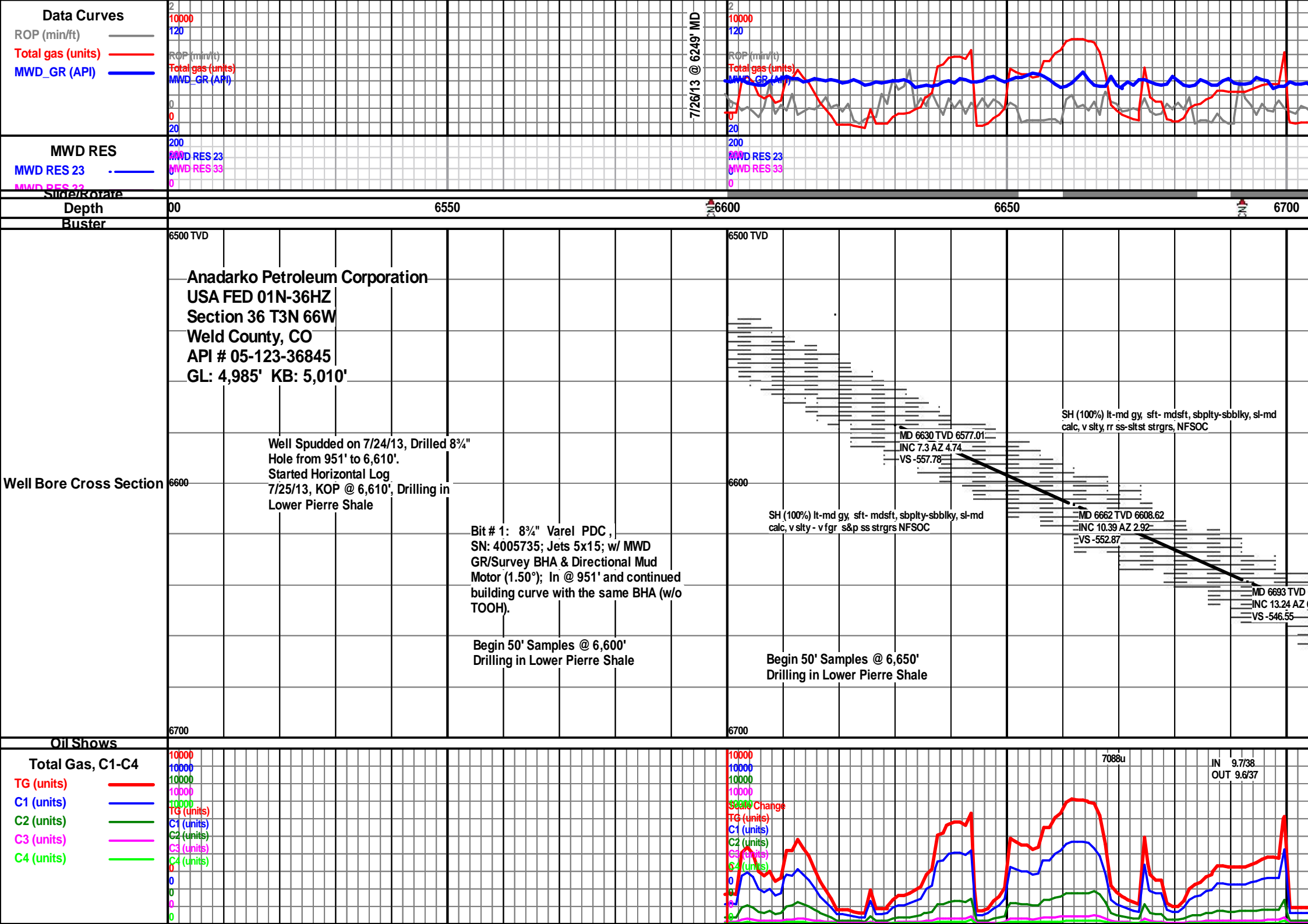
ROUNDING

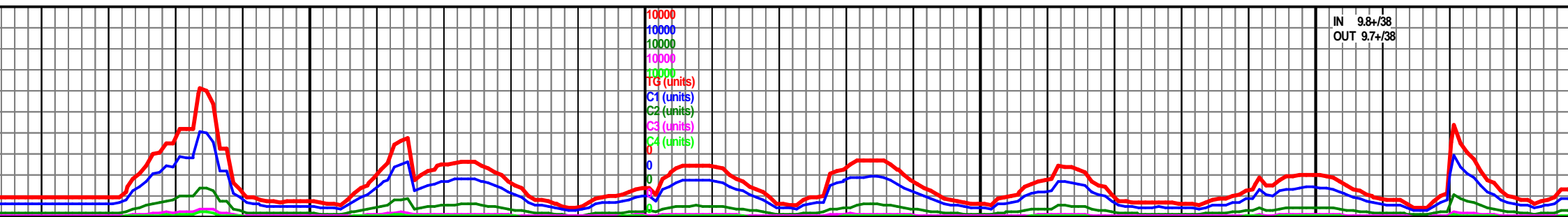
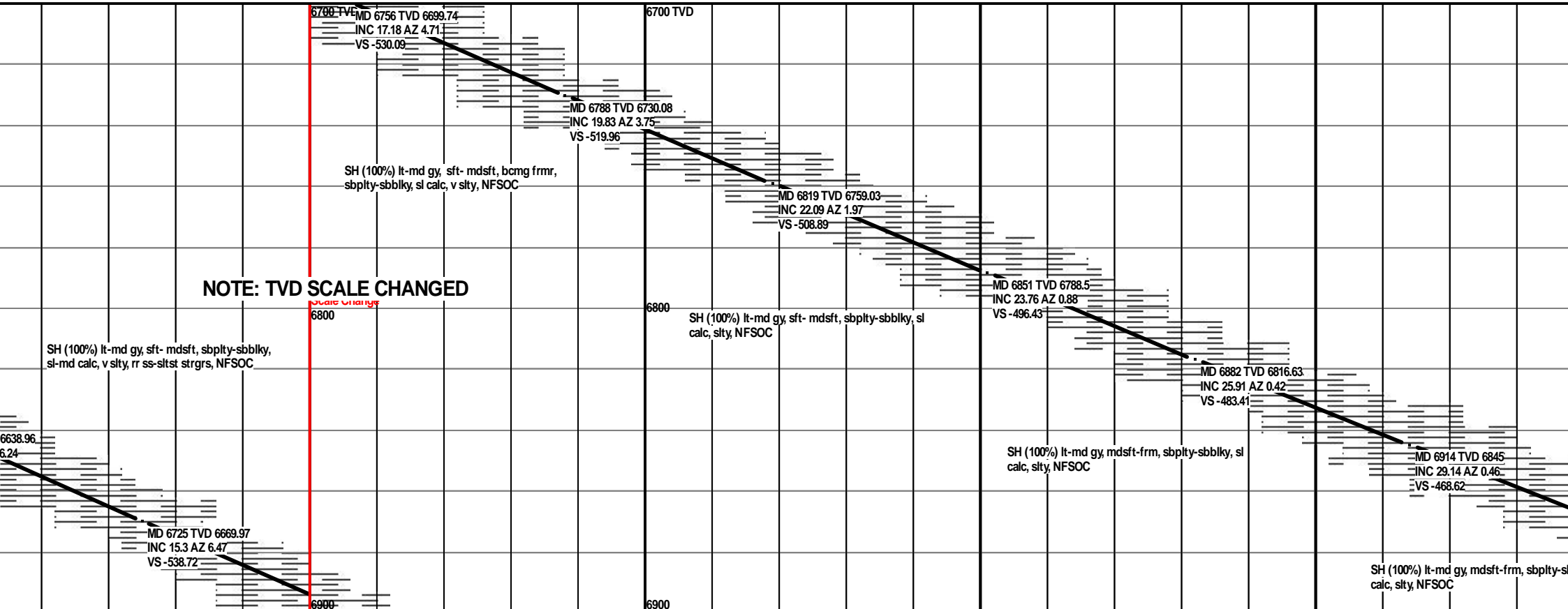
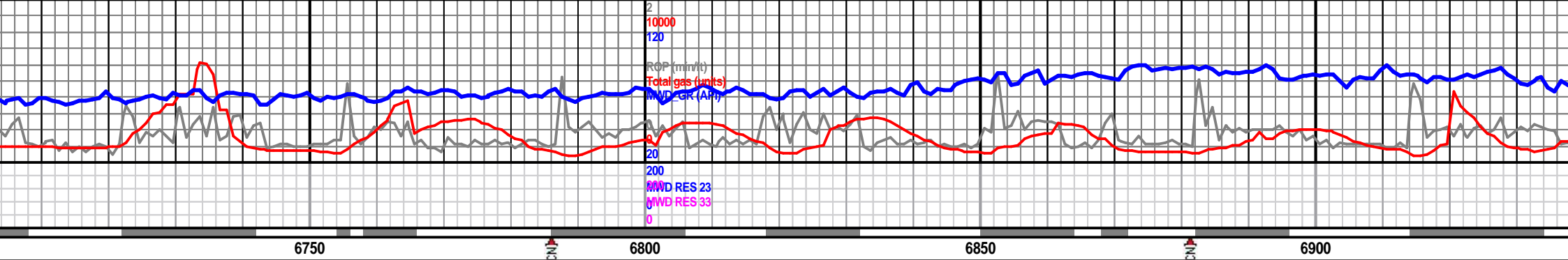
Rounded

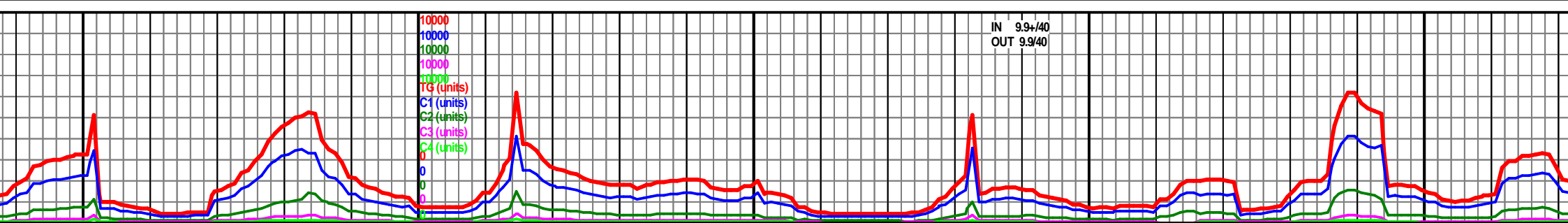
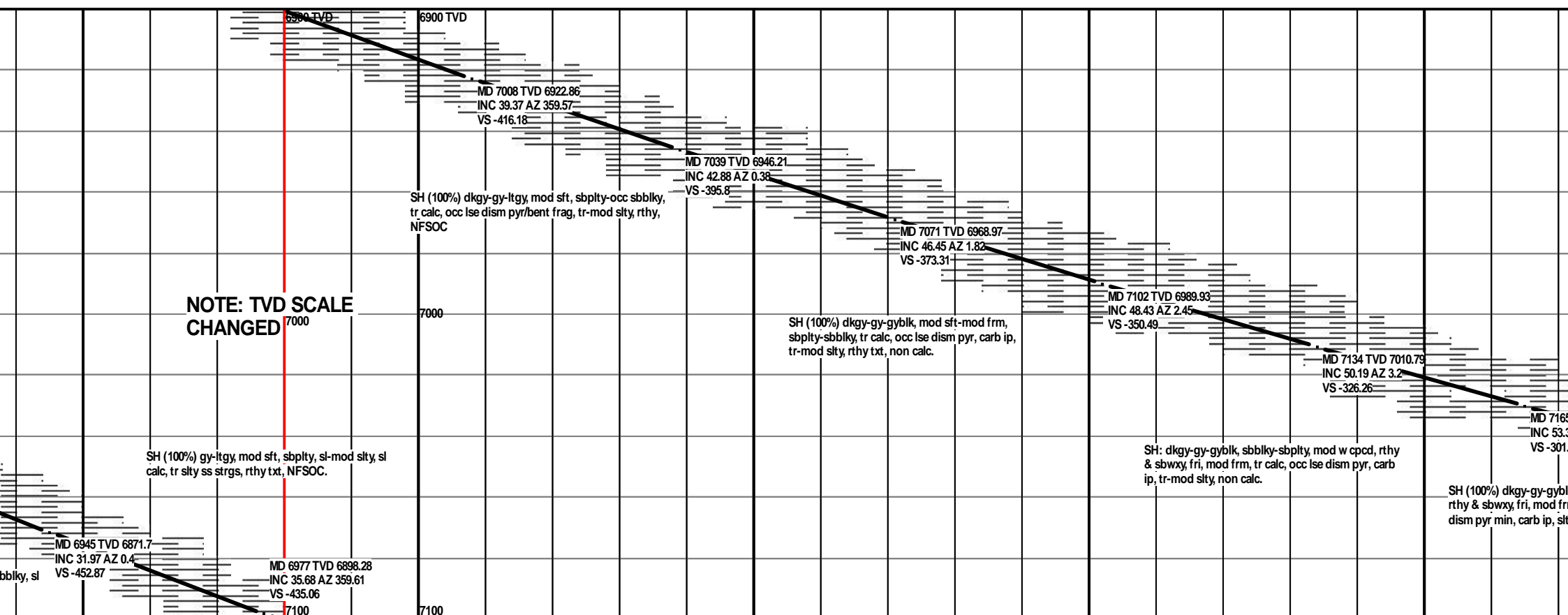
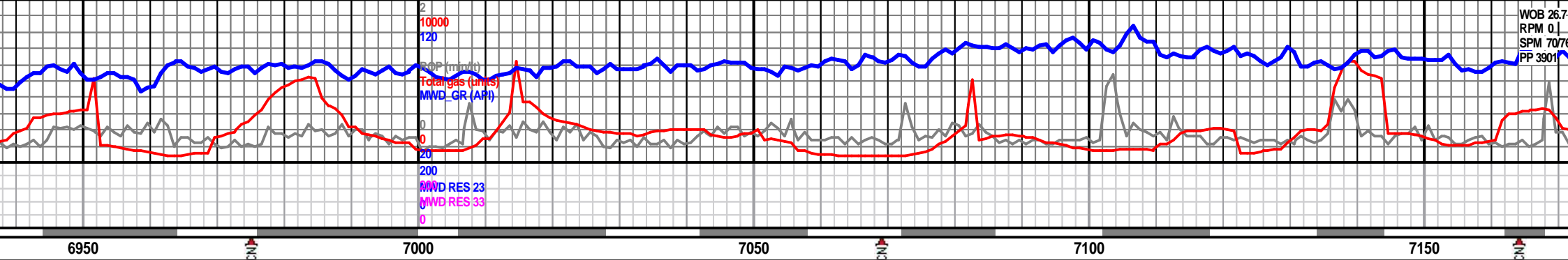
Subrnd
 Subang
 Angular

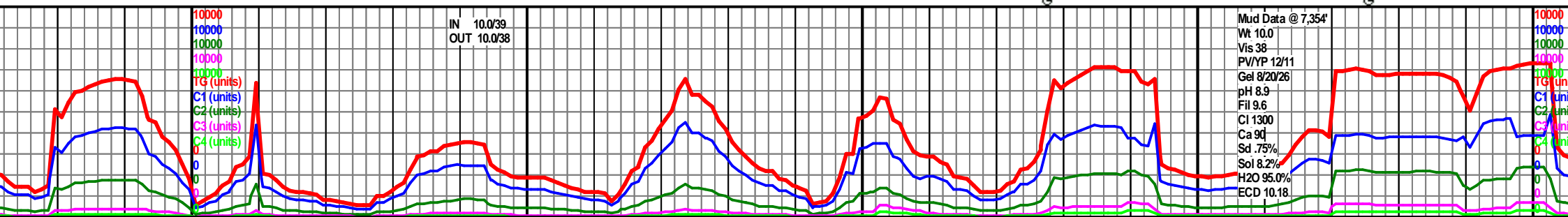
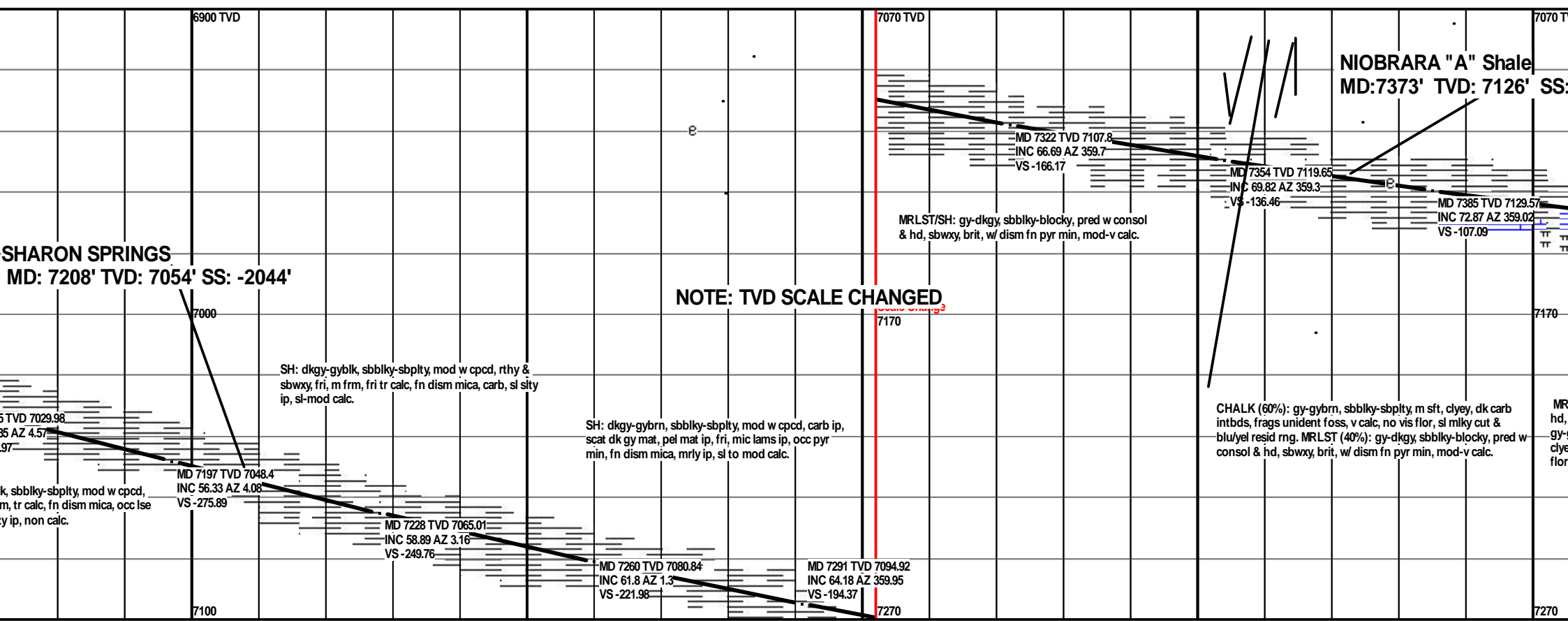
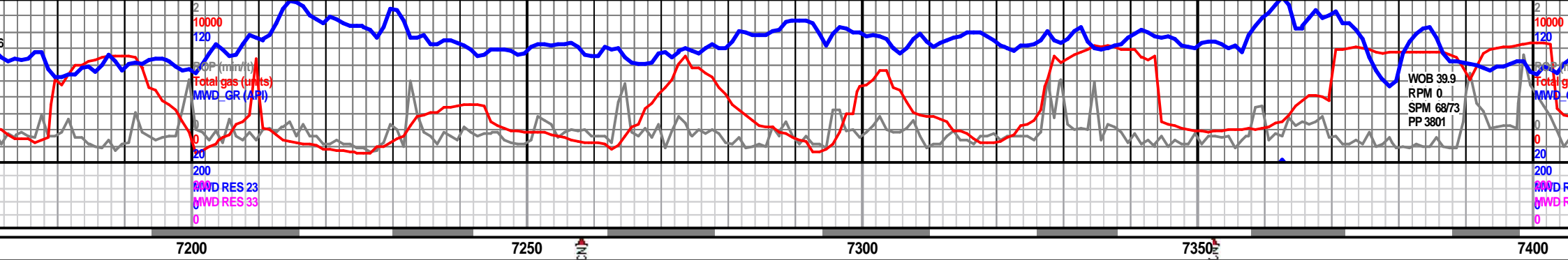
SORTING

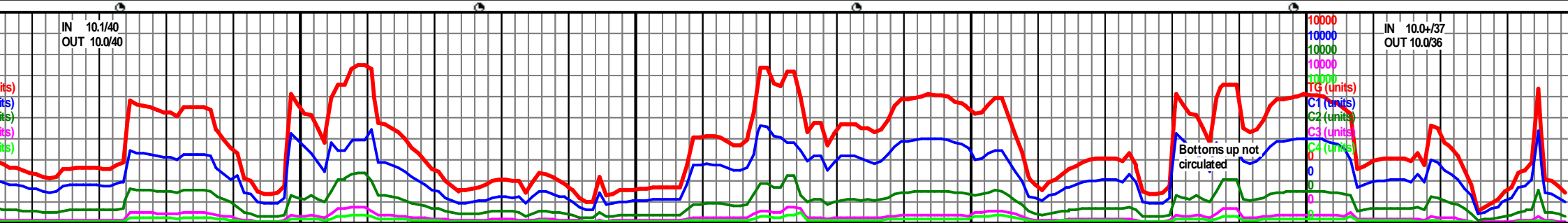
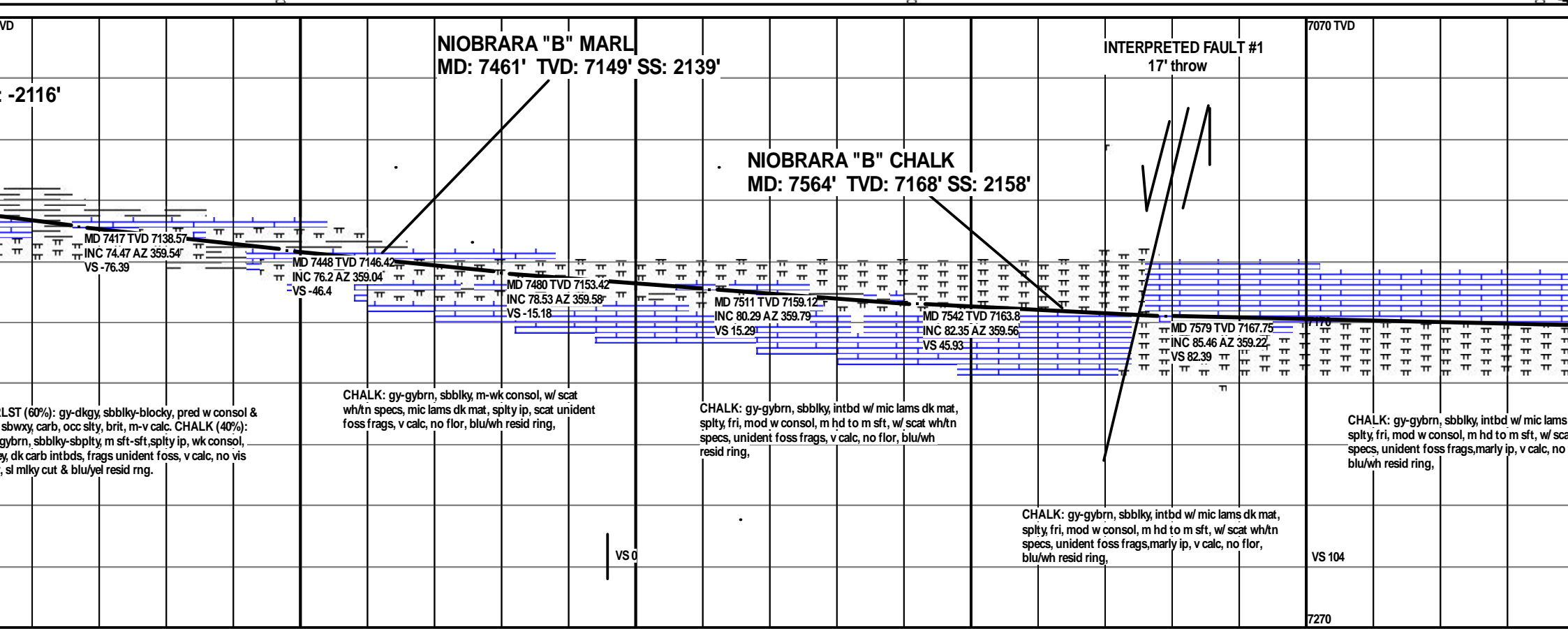
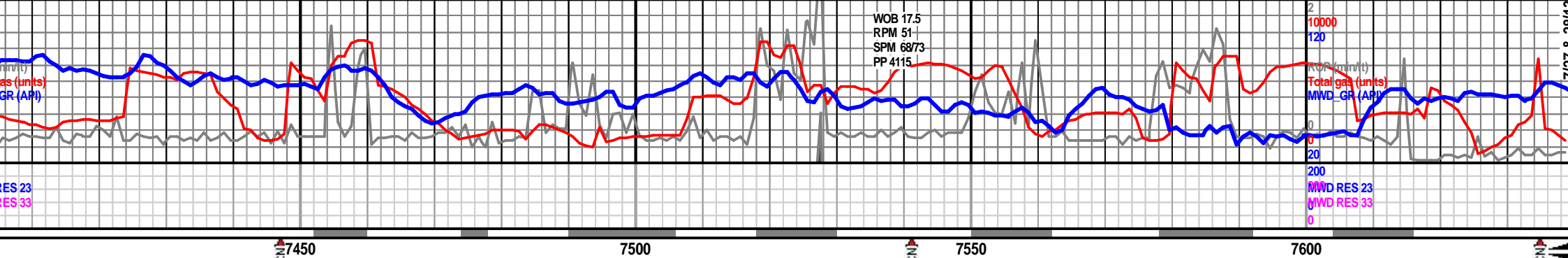
Well
 Moderate
 Poor

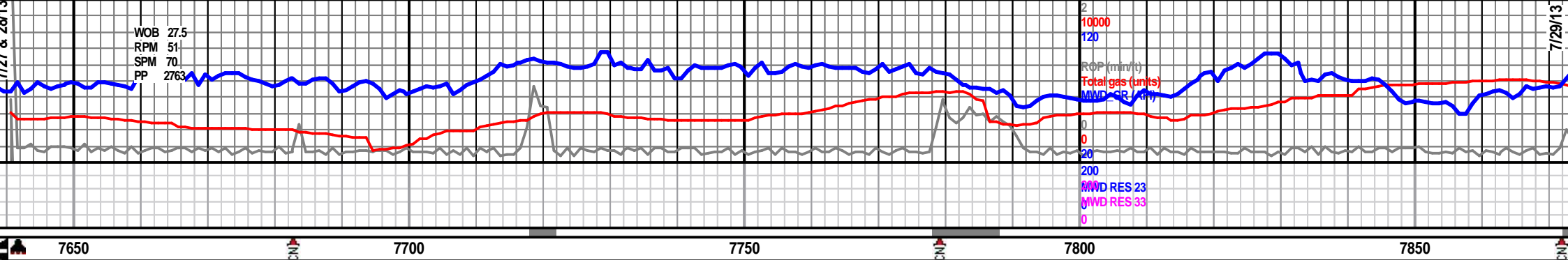






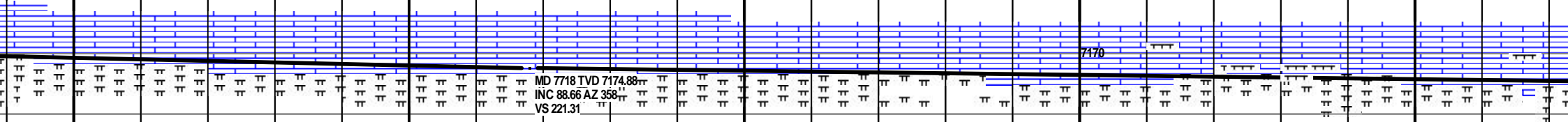






ICP AT 7640' MD REACHED ON JULY 26, 2013 AT 21:30 HRS.
7" INTERMEDIATE CASING SET @ 7615'. RESUMED DRILLING
OF LATERAL PART OF THE WELL ON JULY 28, 2013 AT 22:00
HRS.

Bit # 2: 6.125" Varel VM513S,
SN: 4005819; Jets 5x16; w/ MWD GR/Survey BHA &
Directional Mud Motor (1.50"); In: 7640' Out: 11677';
Drilled 4037' in 30.5 hrs.

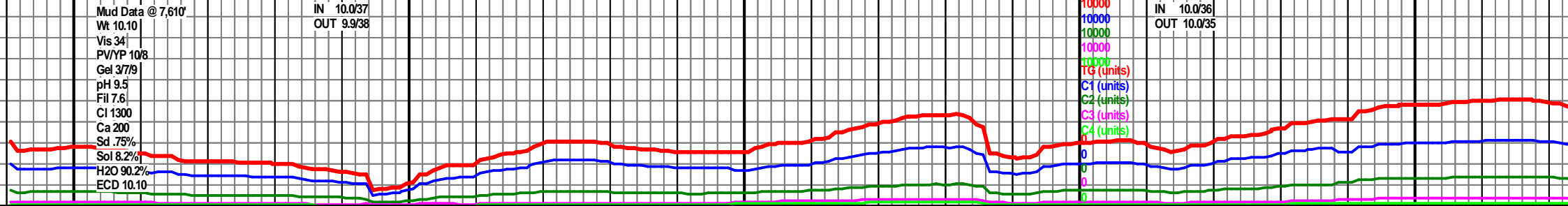
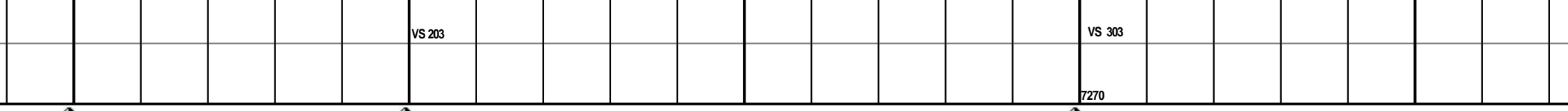


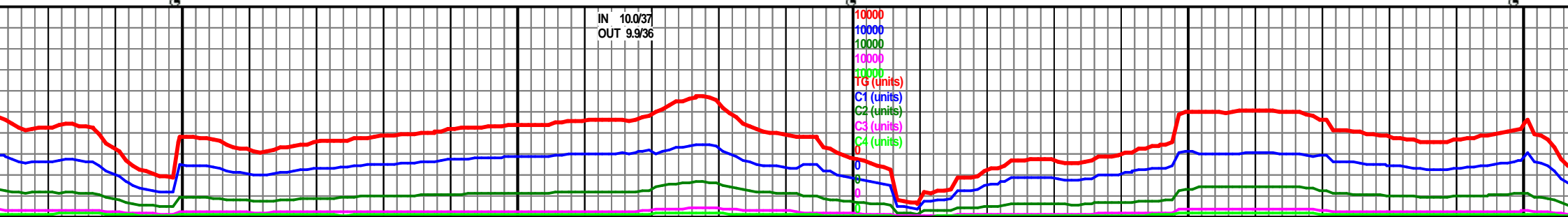
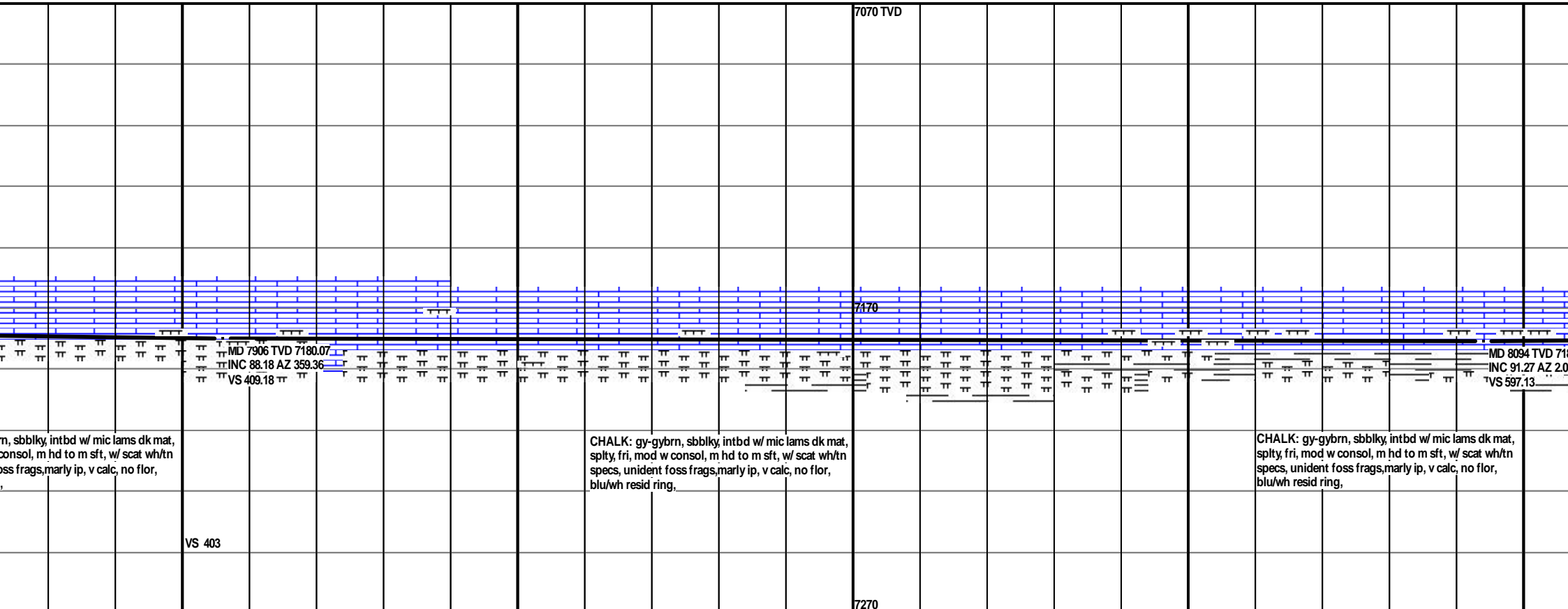
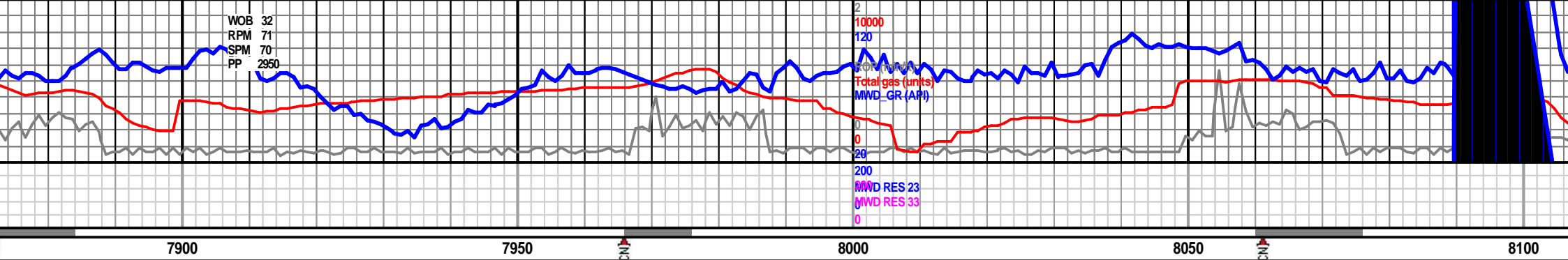
dk mat,
at wh/tn
flor,

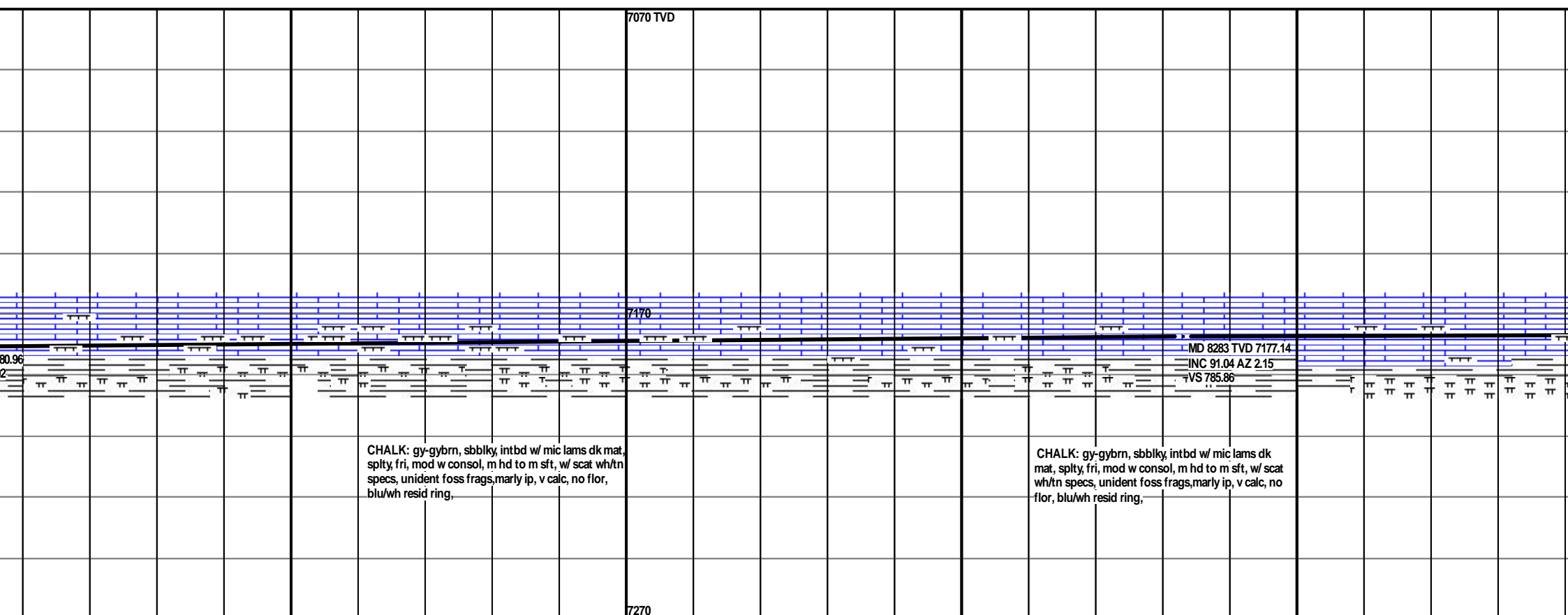
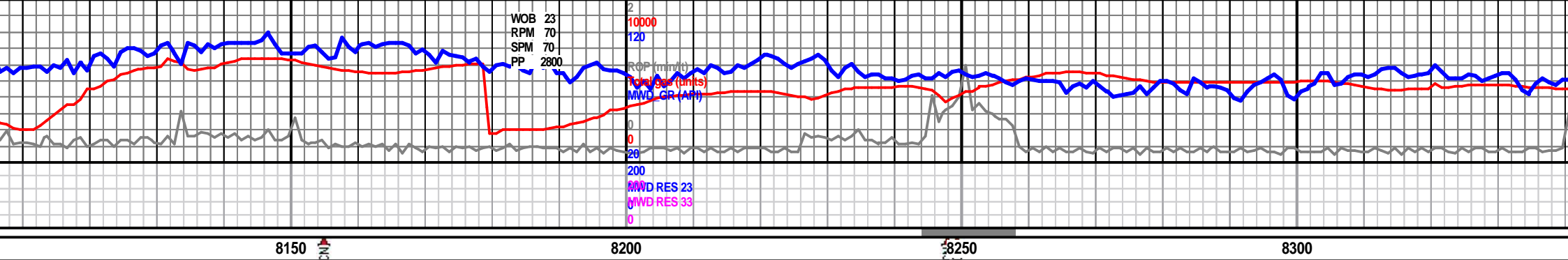
CHALK: gy-gybrn, sbblky, intbd w/ mic lams dk mat,
splty, fri, mod w consol, m hd to m sft, w/ scat wh/tn
specs, unident foss frags, marly ip, v calc, no flor,
blu/wh resid ring,

CHALK: gy-gybrn, sbblky, intbd w/ mic lams dk mat,
splty, fri, mod w consol, m hd to m sft, w/ scat wh/tn
specs, unident foss frags, marly ip, v calc, no flor,
blu/wh resid ring,

CHALK: gy-gybrn,
splty, fri, mod w
specs, unident fo
blu/wh resid ring

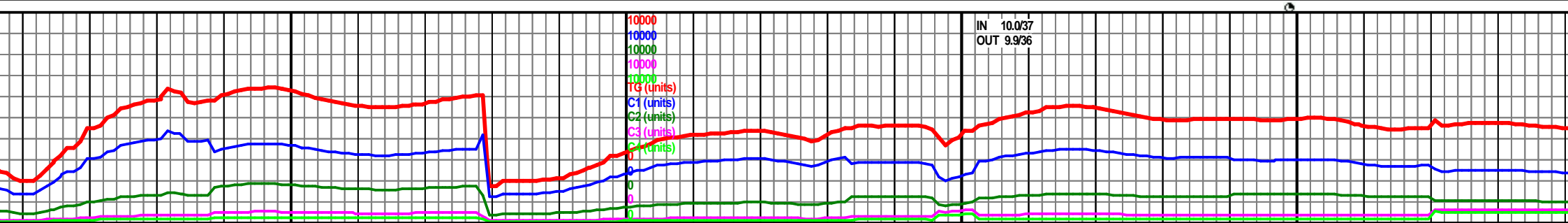


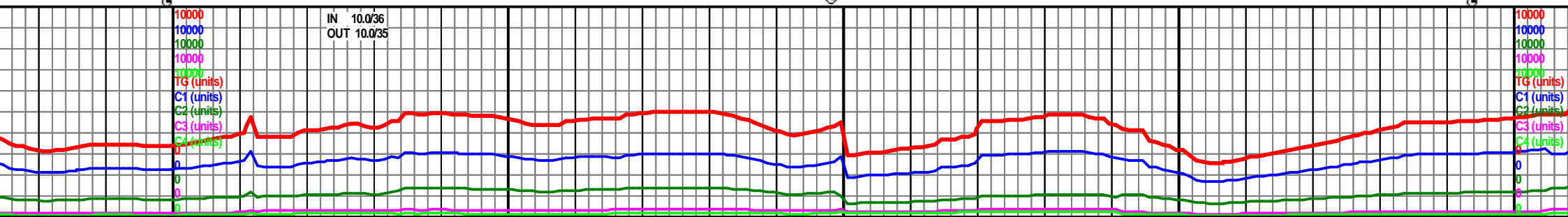
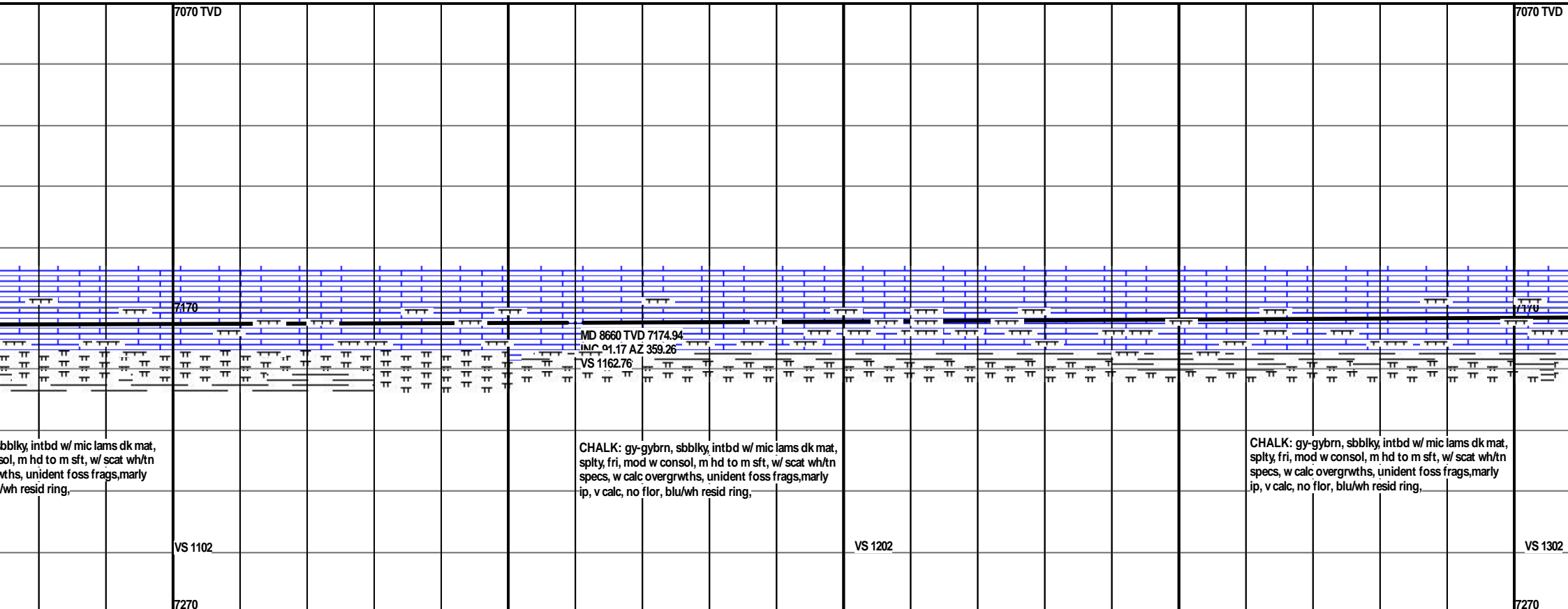
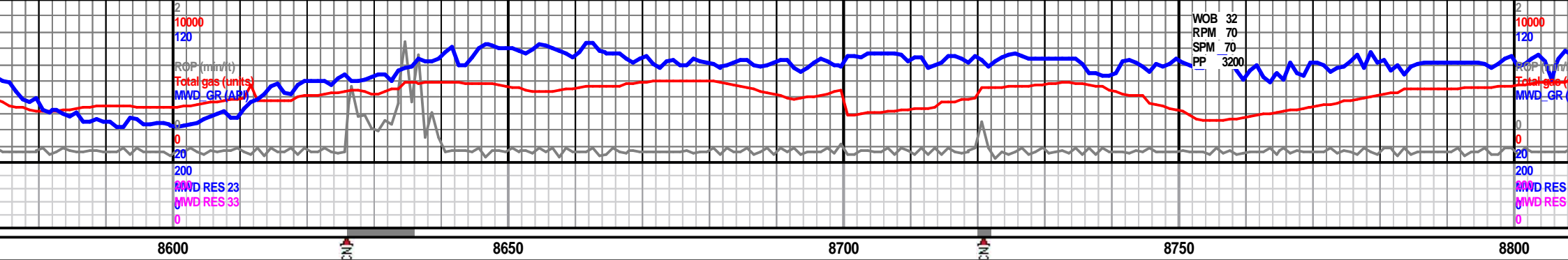


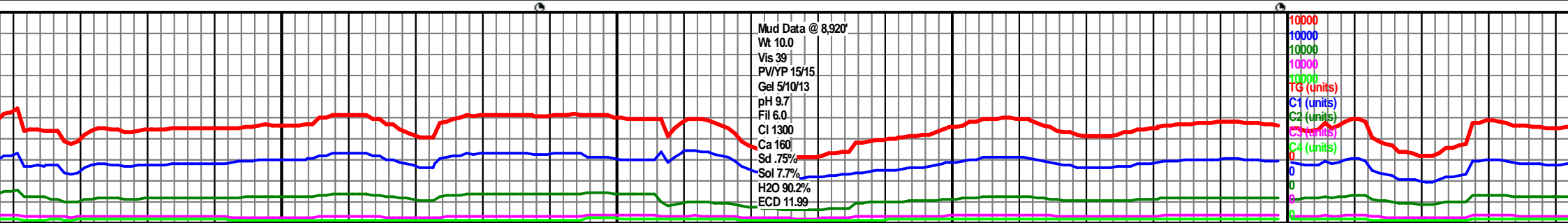
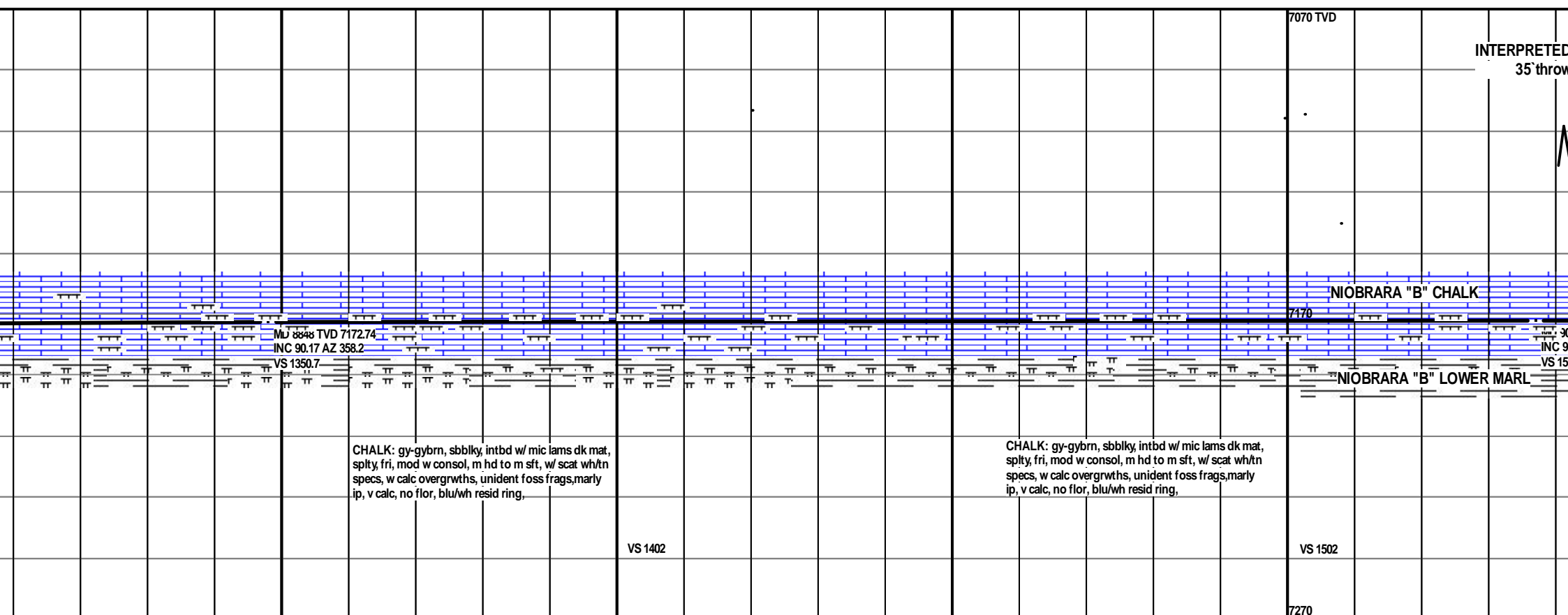
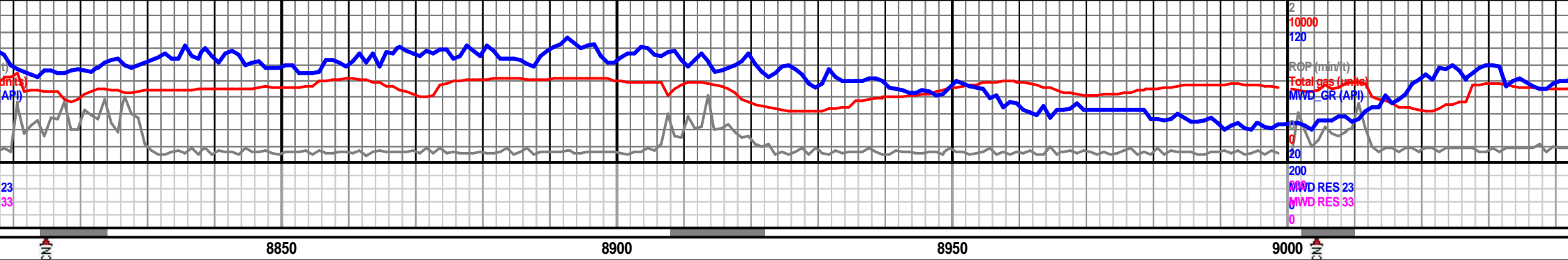


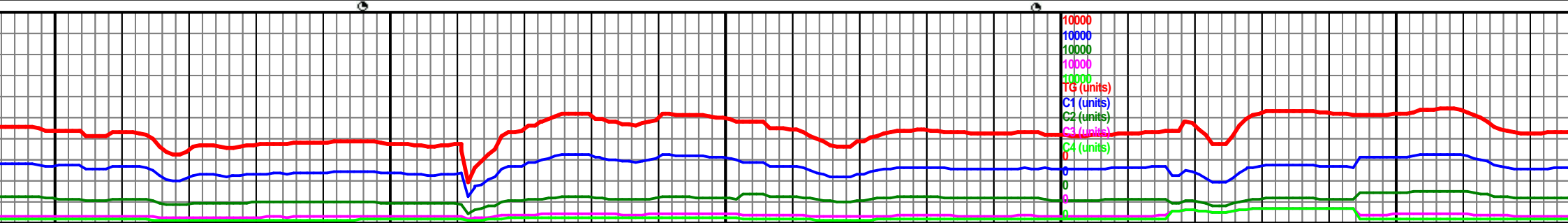
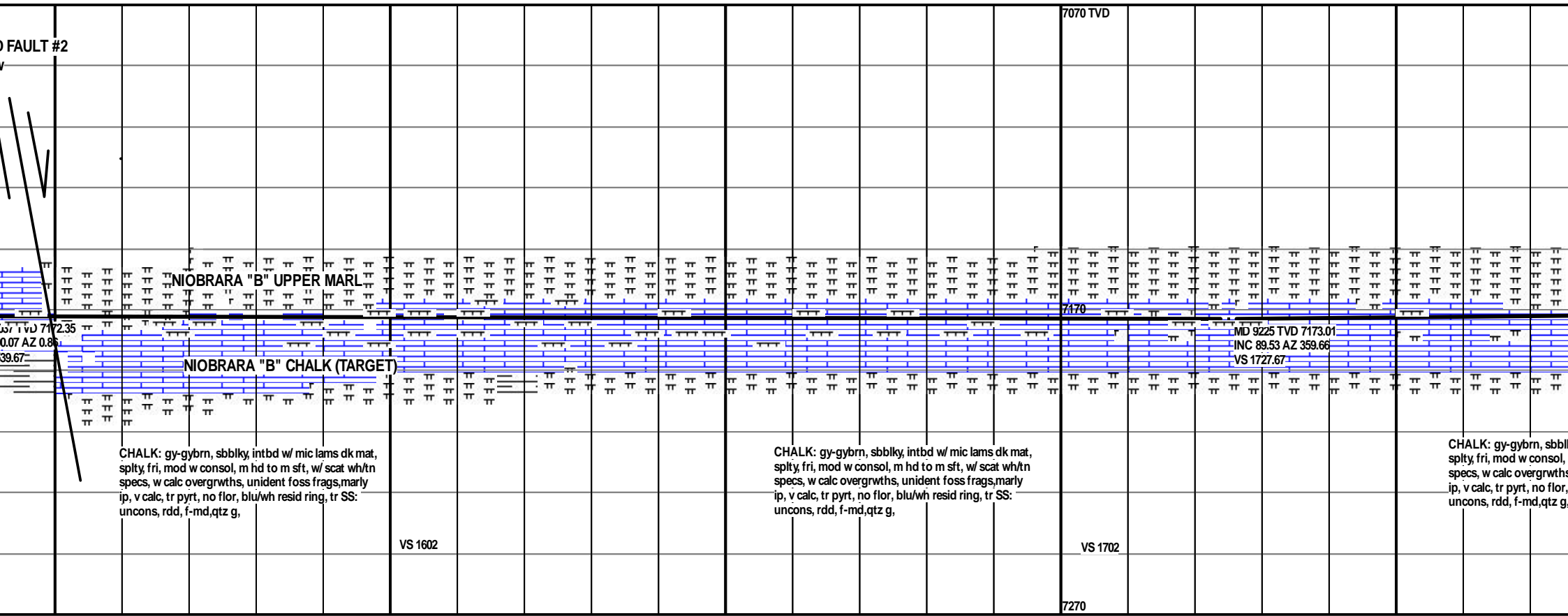
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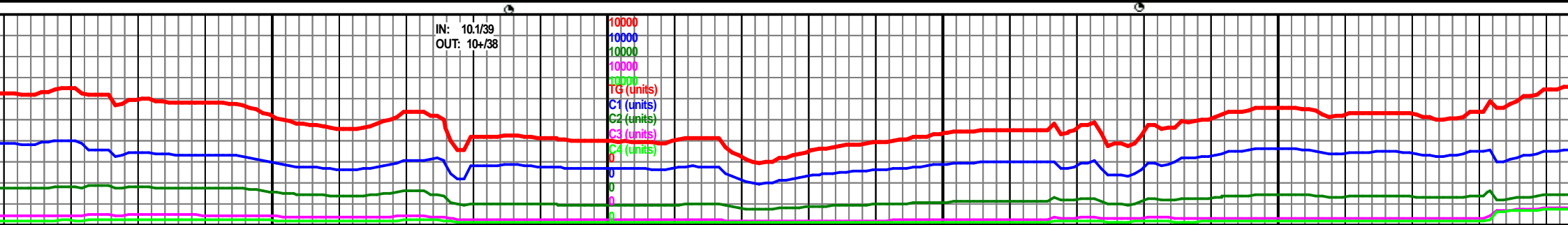
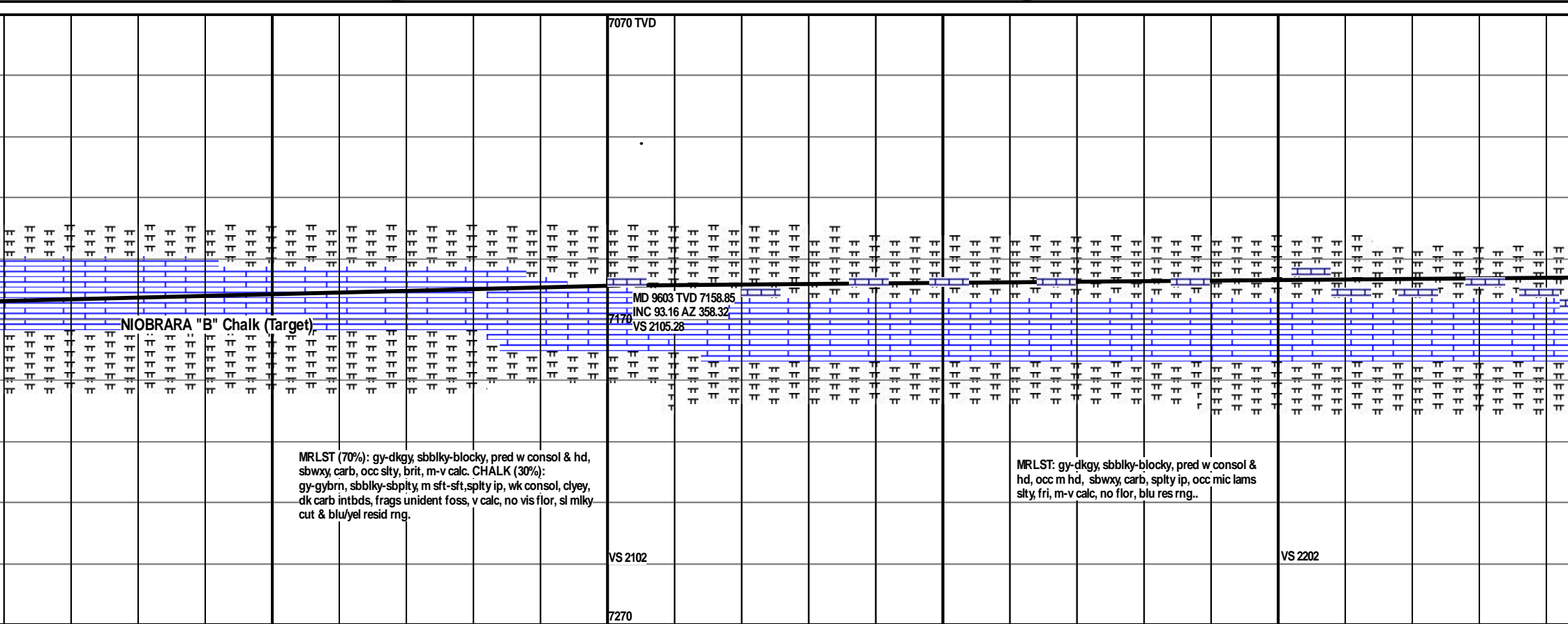
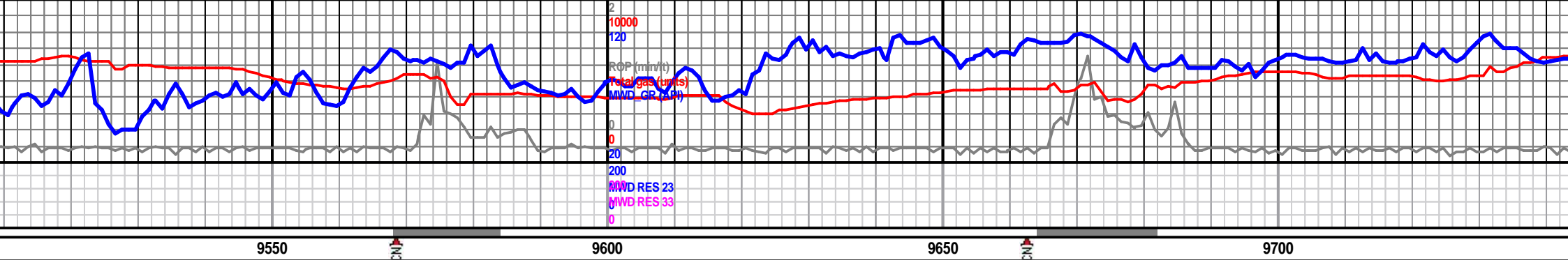
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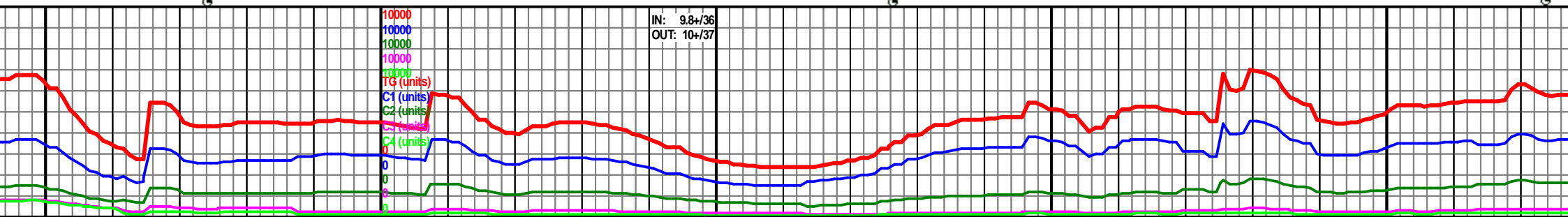
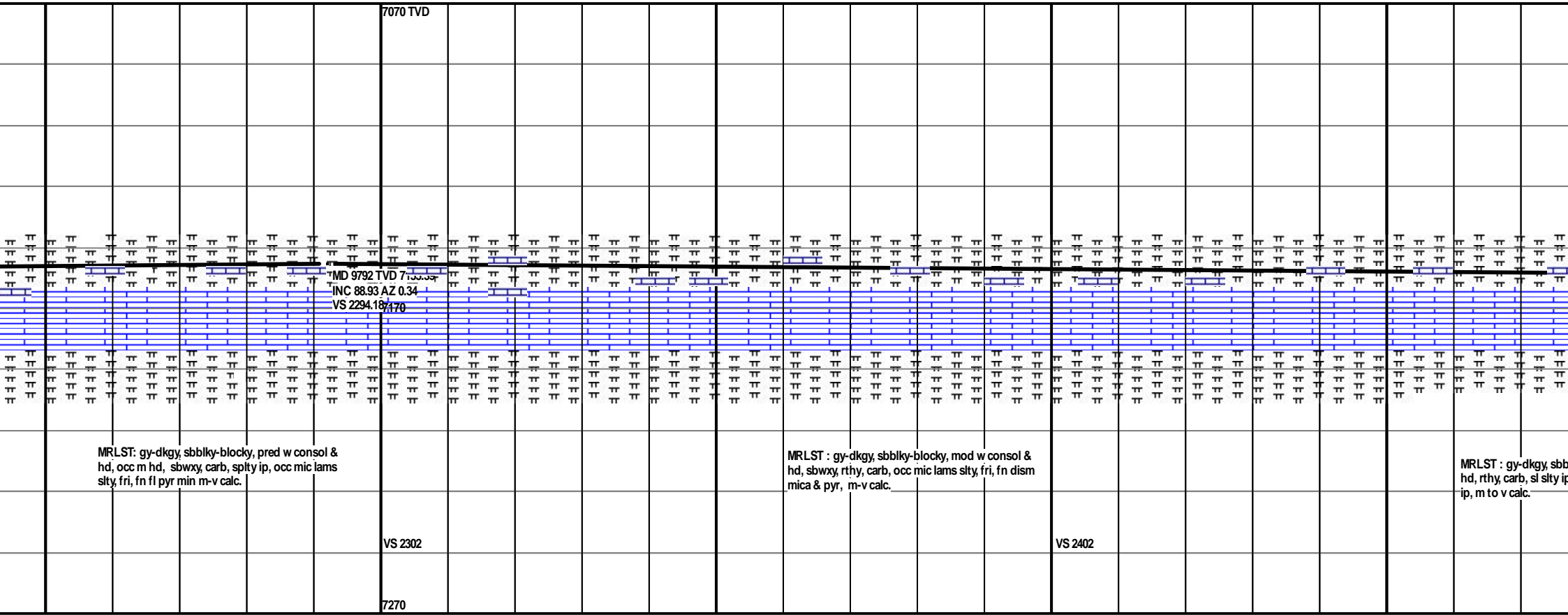
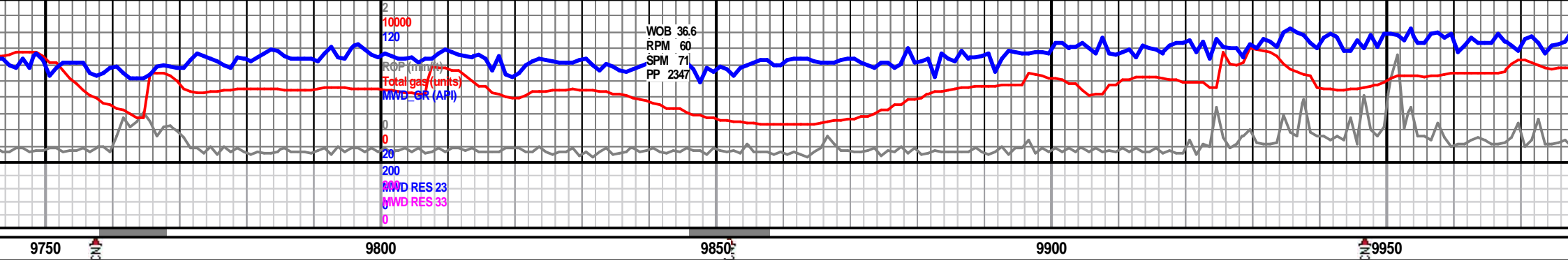


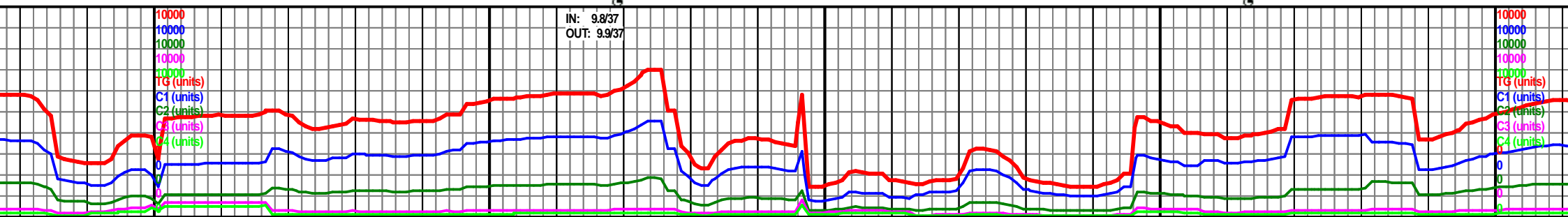
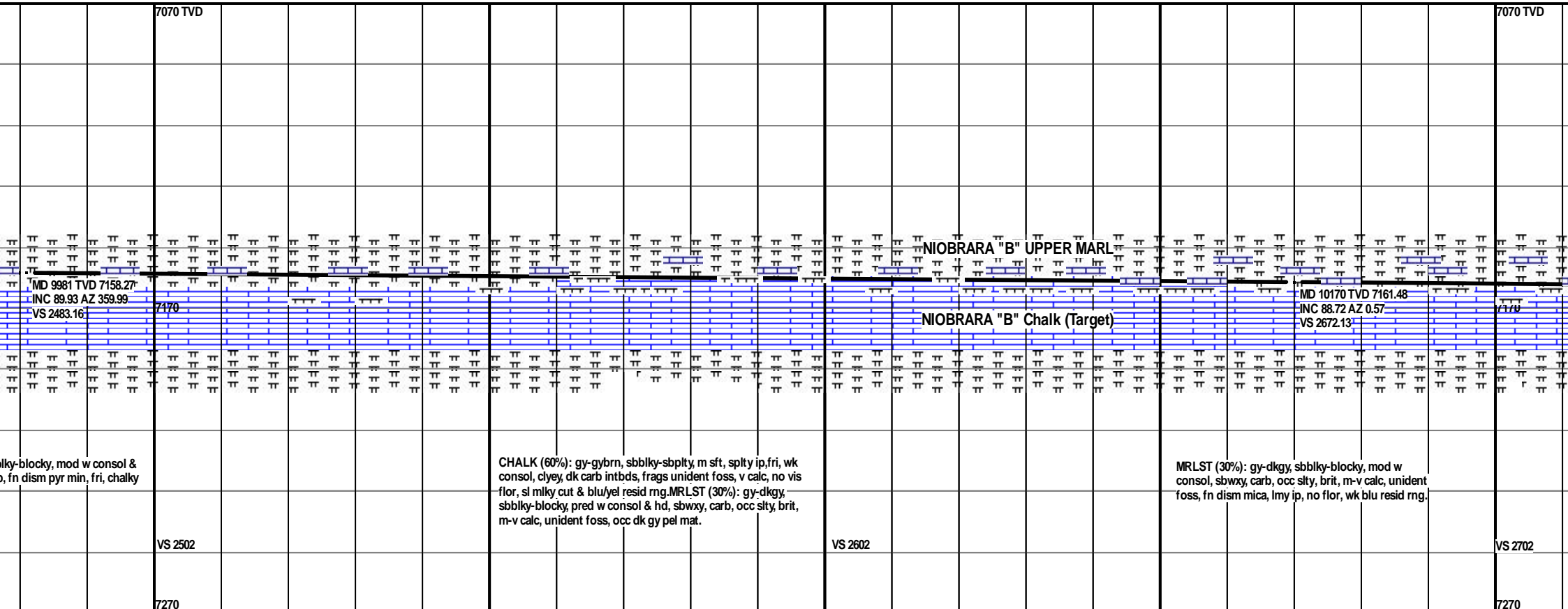
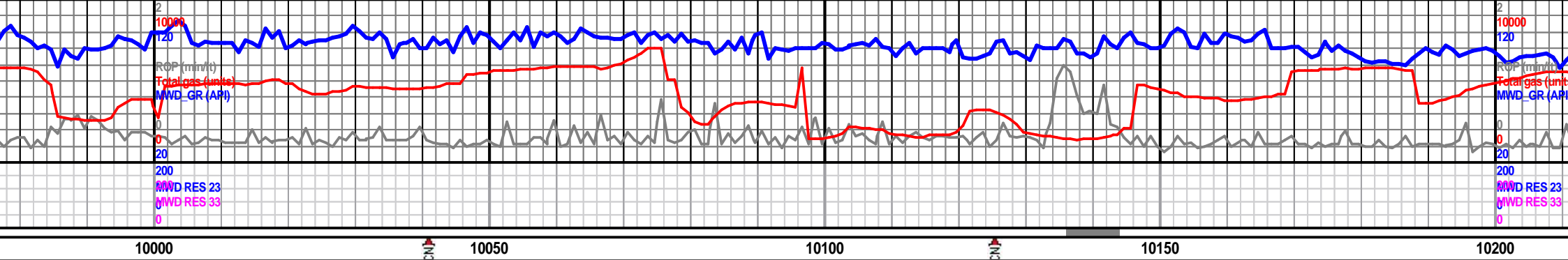


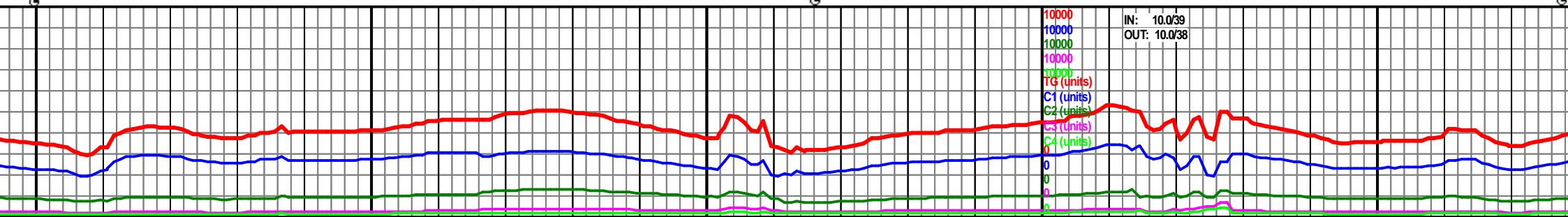
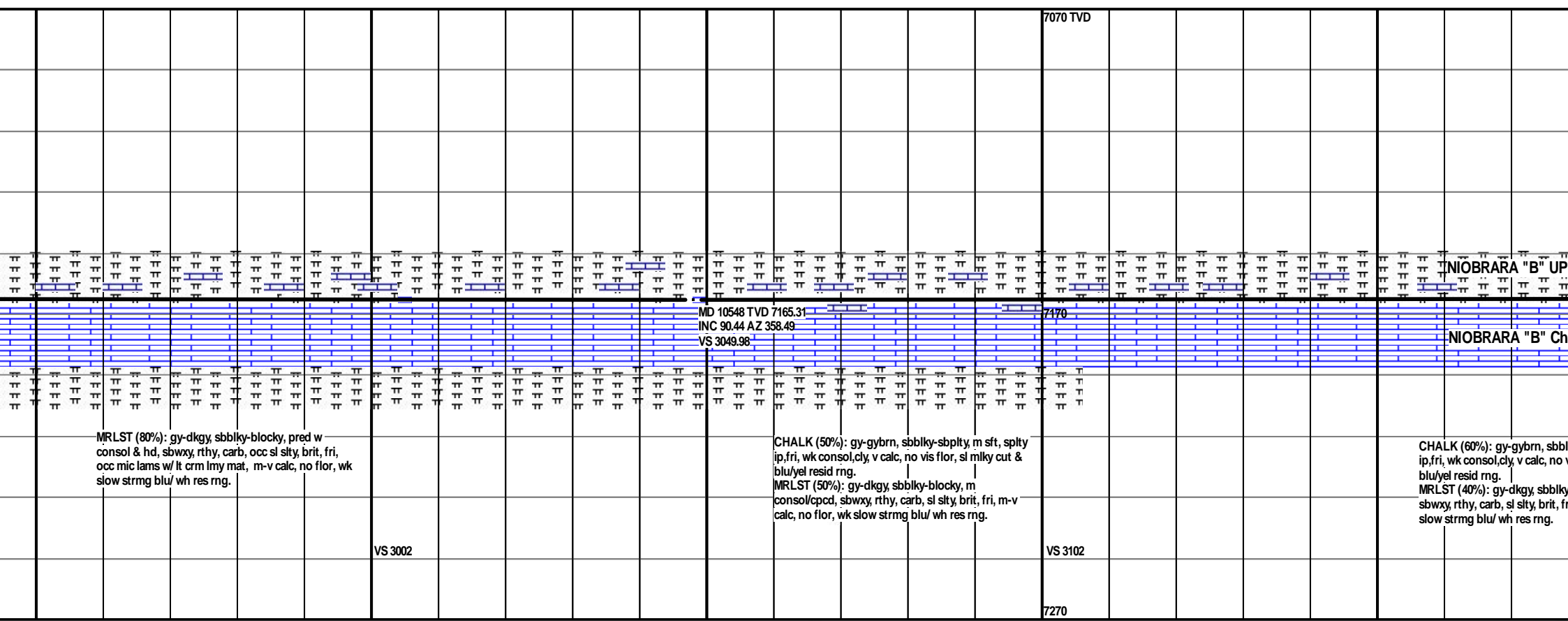
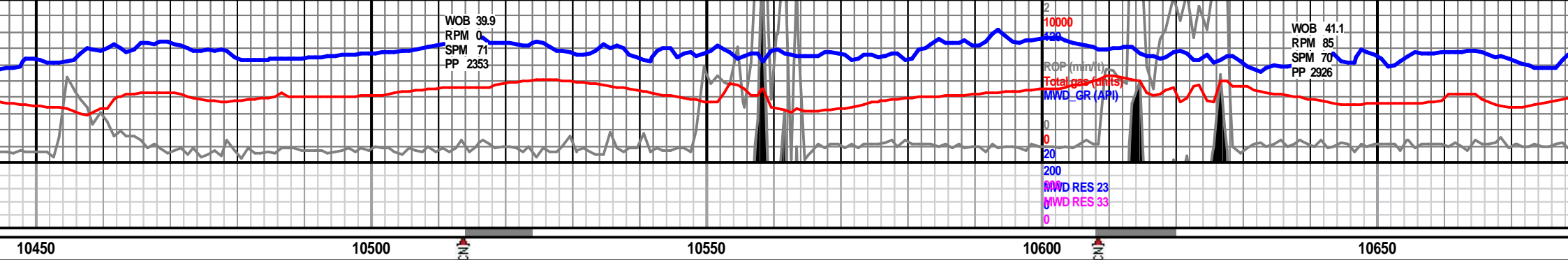


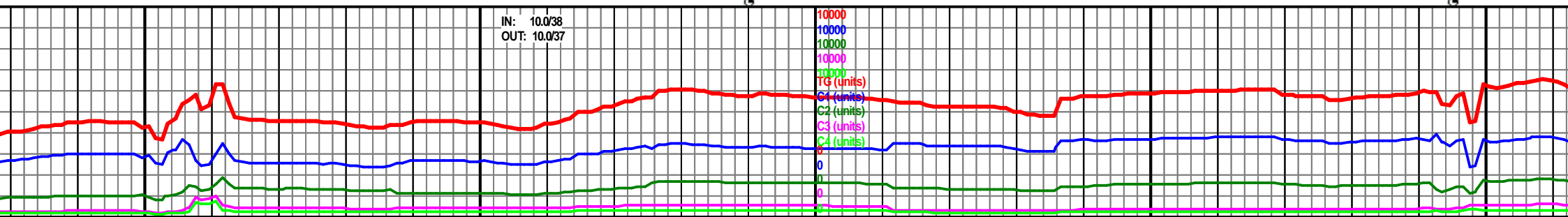
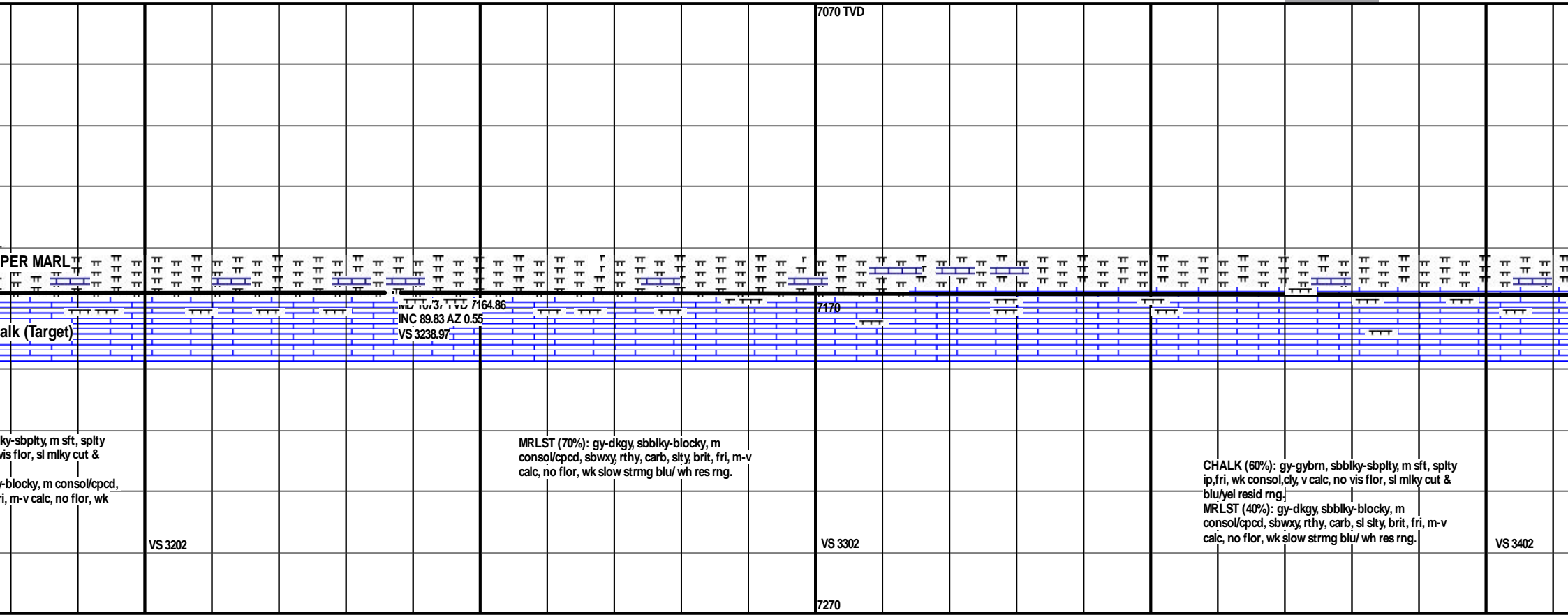
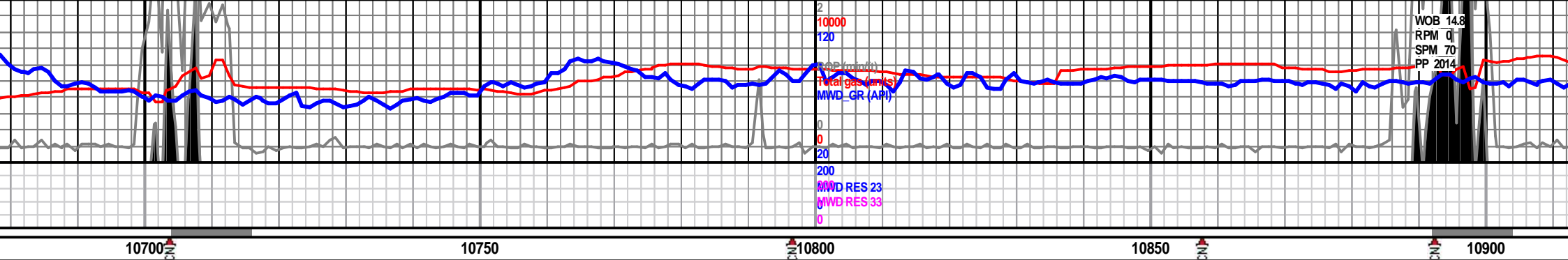


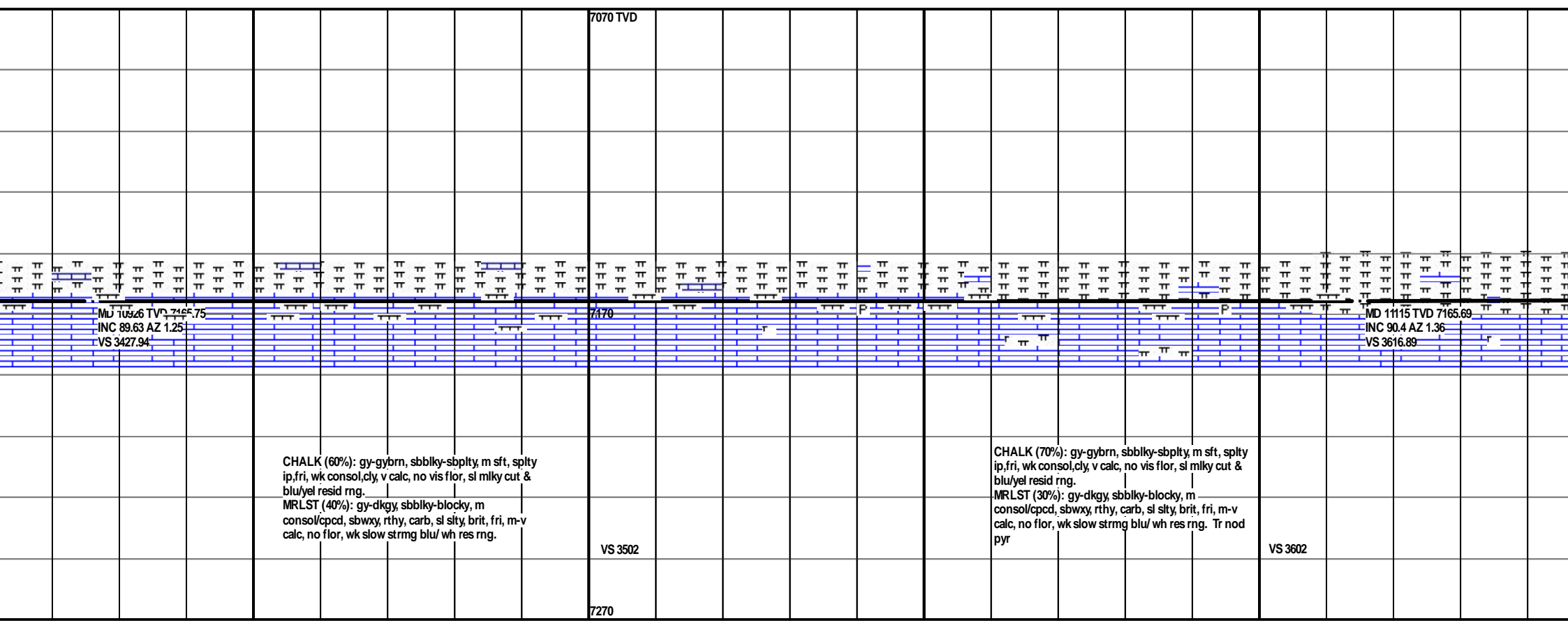
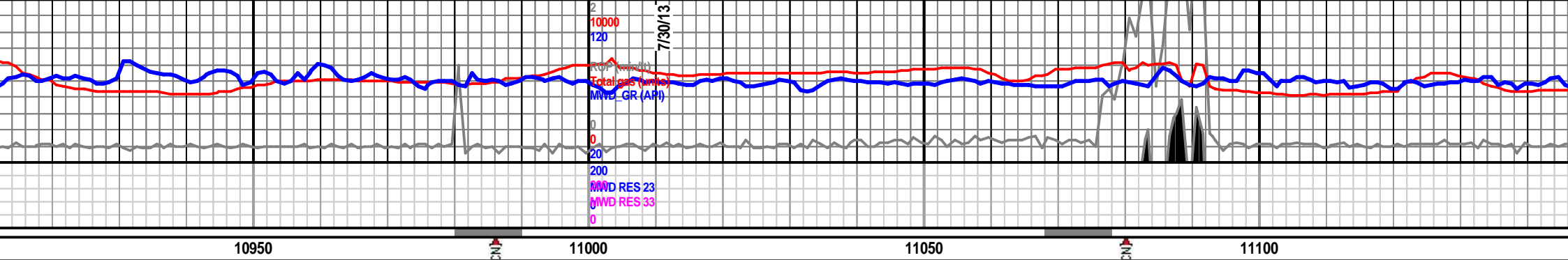






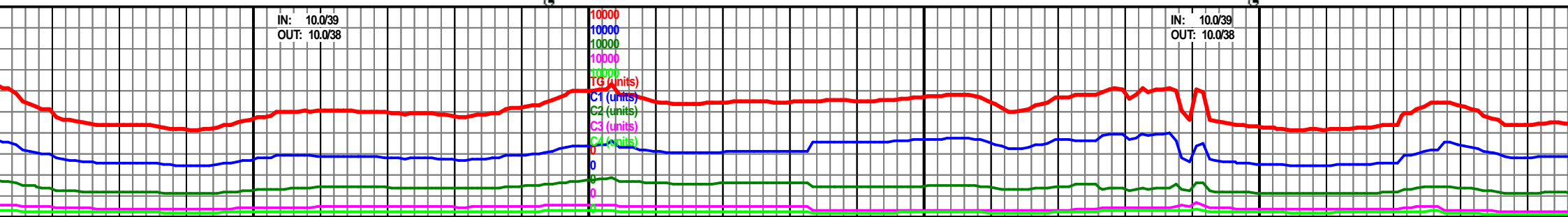


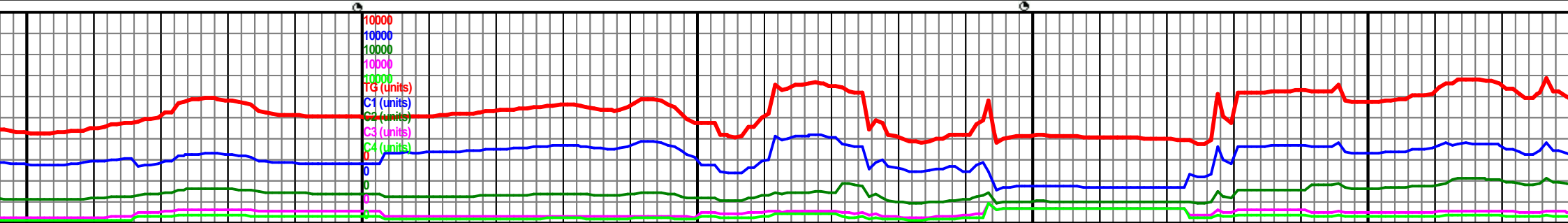
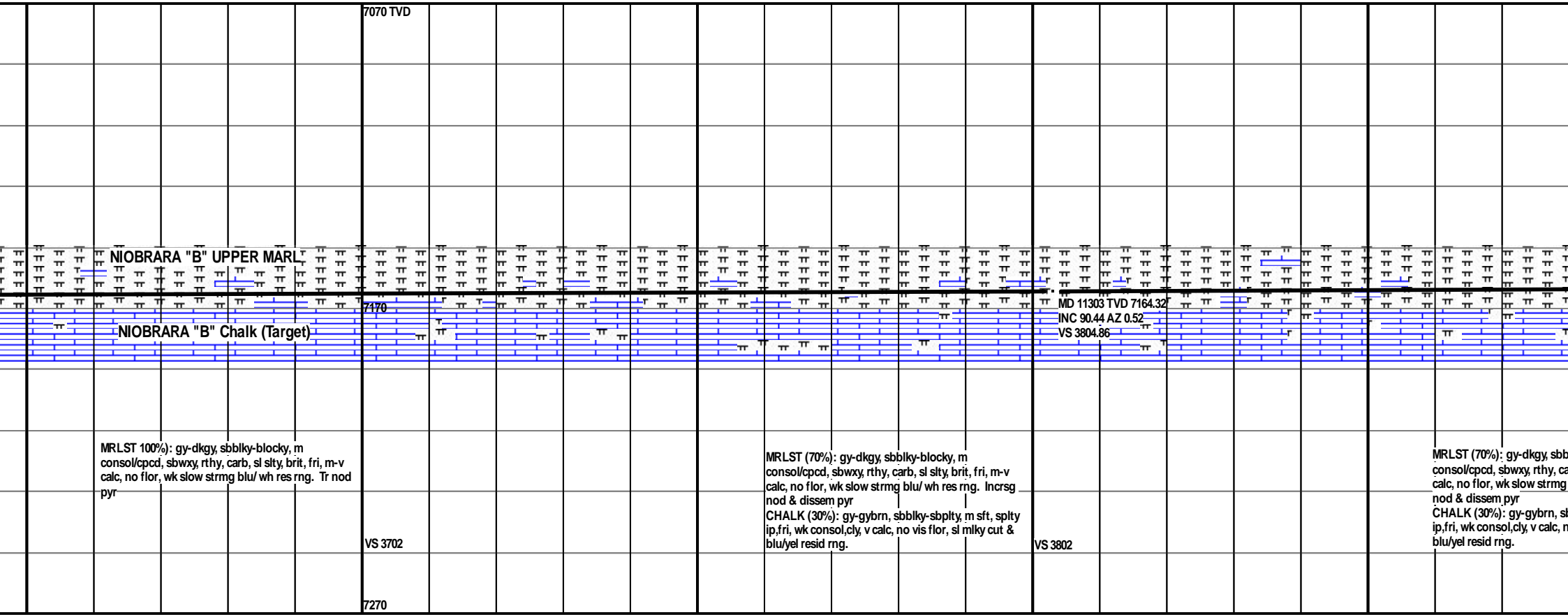


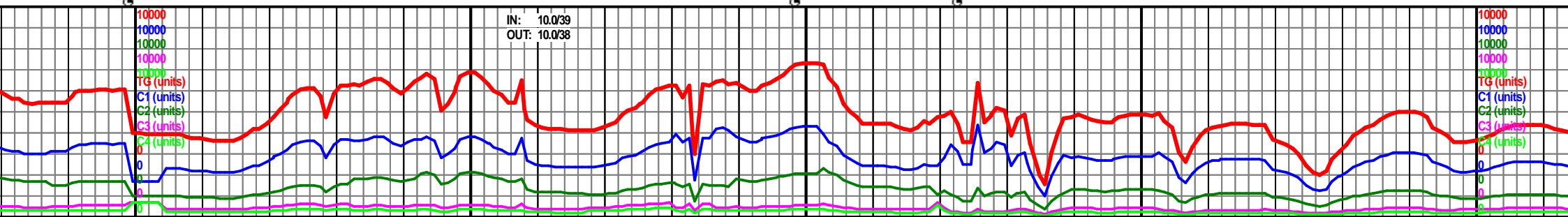
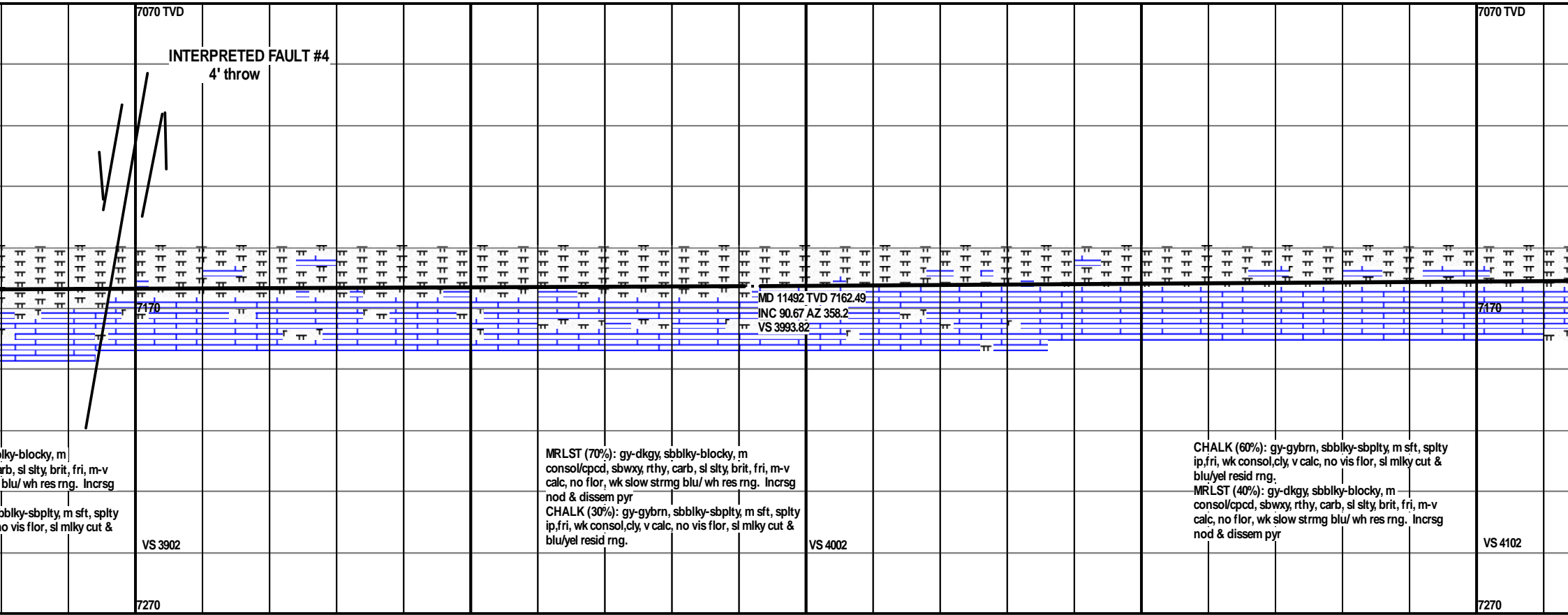
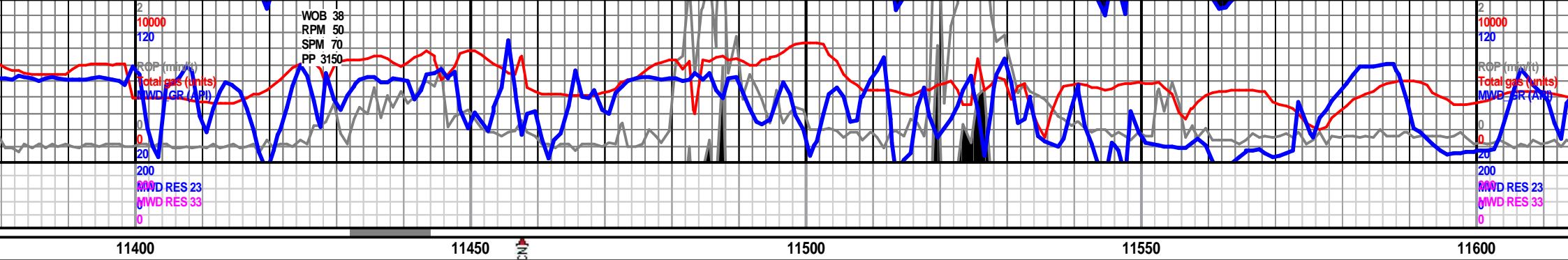


CHALK (60%): gy-gybrn, sbblky-sbply, m sft, splty
ip,fri, wk consol,cl, v calc, no vis flr, sl mlky cut &
blu/yel resid rng.
MRLST (40%): gy-dkgy, sbblky-blocky, m
consol/cpcd, sbwxy, rthy, carb, sl slty, brit, fri, m-v
calc, no flr, wk slow strmg blu/wh res rng.

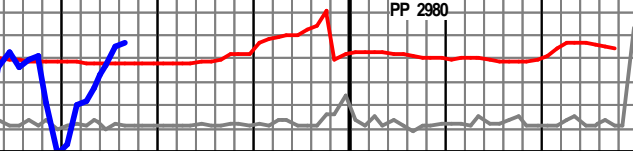
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MRLST (30%): gy-dkgy, sbblky-blocky, m
consol/cpcd, sbwxy, rthy, carb, sl slty, brit, fri, m-v
calc, no flr, wk slow strmg blu/wh res rng. Tr nod
pyr







WOB 48
RPM 50
SPM 70
PP 2980



11650

11700

11750

11800

TD @ 11,677' REACHED AT 9:20 AM ON 7/30/13 4
1/2" LINER SET @ 11662' ON 7/30/13.

BIT #2 DRILLED 6,760' IN 62.5 HRS.

BHL: 4178.55ft Northing; 142.13 ft Easting;
Closure distance: 4178.67 ft



MD 11617 TVD 7161.13
INC 90.57 AZ 356.42
VS 4118.67

MD 11677 TVD 7161.73
INC 90.57 AZ 356.42
VS 4178.67

(Projected to the bit.)

CHALK (60%): gy-gybm, sbblky-sbplty, m sft, splty
ip, fri, wk consol, cly, v calc, no vis flor, sl milky cut &
blu/yel resid rng.
MRLST (40%): gy-dkgy, sbblky-blocky, m
consol/cpcd, sbwxy, rthy, carb, sl slty, brit, fri, m-v
calc, no flor, wk slow strmg blu/wh res rng. Incrsg
nod & dissem pyr

VS 4202

THANK YOU !

MAREK CIESNIK
ALAN SEELING

(GOOLSBY BROTHERS & ASSOCIATES)

August 1, 2013

