

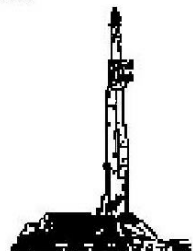
GOOLSBY BROTHERS
and associates, inc.

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: NRC 26N-5HZ

API: 05123391570000

Location: Section 8, T1N, R67W

License Number:

Spud Date: May 29, 2014

Surface Coordinates: NENE Sec 8 T1N R67W; 500' FNL, 1230' FEL

LAT: 40° 07'14.20 N LONG: 104° 90'95.11 W

Bottom Hole Coordinates: NENE Sec 5 T1N R67W; 422' FNL; 243' FEL

Ground Elevation (ft): 5009'

Logged Interval (ft): 7250'

To: 12760'

Formation: Pierre Shales/Sands, Niobrara B Chalk (Target)

Type of Drilling Fluid: Water & Poly to 6000', LSND 6000'-12760'

K.B. Elevation (ft): 5025'

Total Depth (ft): 12760' DMTD

Region: Wattenberg, DJ Basin

Drilling Completed: June 6, 2014

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

OPERATOR

Company: Kerr-McGee Oil & Gas Onshore LP

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

Denver, CO 80202

CO Geologist, Tom Birmingham

GEOLOGIST

Name: Blake Stacey & Shelton Davis

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

Address: 575 Union Blvd.

Suite 208,

Lakewood CO. 80228

E-logs

MWD GR 6,900' - 12,713.5'

Casing

9 5/8" Surface Casing set @ 1,333' MD


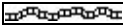
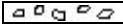


7" Intermediate Casing set @ 7,990' MD



4 1/2" Production Liner hung 06/07/2014, landed @ 12,743' MD

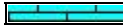




Comments






- 1) Drilling Contractor: Xtreme Drilling, Rig # 23
- 2) Directional Drilling: DRILLTECH LLC
MWD GR: DRILLTECH LLC
- 3) Gas Equipment: Pason Gas Analyzer and Agitator

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
 Sltly sh

ACCESSORIES

MINERAL
 Anhy
 Arggrn
 Arg
 Bent
 Bit
 Brecfrag
 Calc
 Carb
 Chtdk
 Chtlt
 Dol
 Feldspar
 Ferrpel
 Ferr
 Glau












 Gyp
 Hvymin
 Kaol
 Marl
 Minxl
 Nodule
 Phos
 Pyr
 Salt
 Sandy
 Silt
 Sil
 Sulphur
 Tuff

FOSSIL
 Algae
 Amph
 Belm
 Bioclst
 Brach
 Bryozoa
 Cephal
 Coral
 Crin
 Echin
 Fish
 Foram
 Fossil
 Gastro
 Oolite

 Ostra
 Pelec
 Pellet
 Pisolite
 Plant
 Strom

STRINGER
 Chlkstg
 Anhy
 Arg
 Bent
 Coal
 Dol
 Gyp
 Ls

 Mrst
 Sltstgr
 Ssstgr

TEXTURE
 Boundst
 Chalky
 Cryxln
 Earthy
 Finexln
 Grainst
 Lithogr
 Microxln
 Mudst
 Packst
 Wackest

OIL SHOWS

- Even
- Spotted
- Ques
- Dead
- Vspotty

- near even

POROSITY TYPE

- Earthy
- Fenest
- Fracture

OTHER SYMBOLS

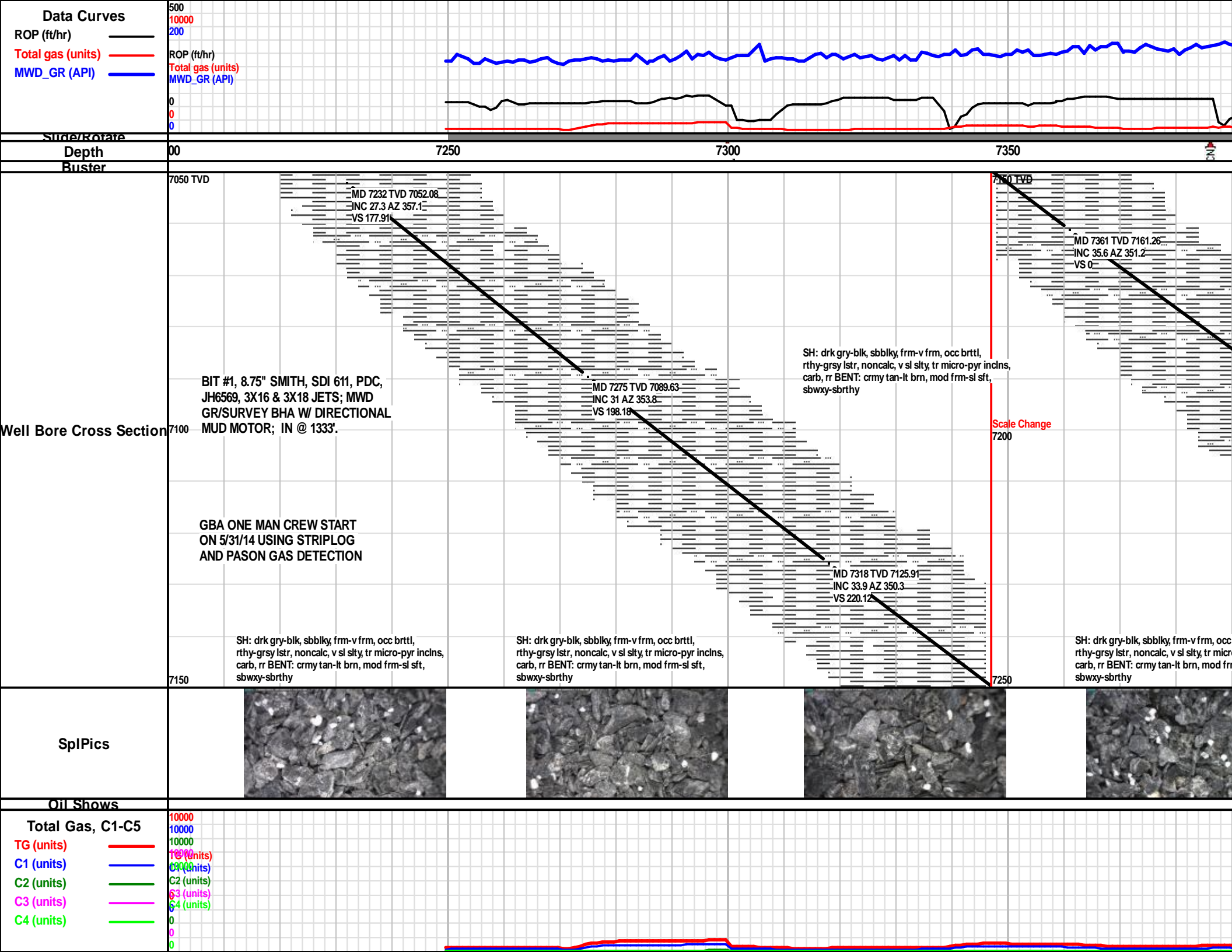
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

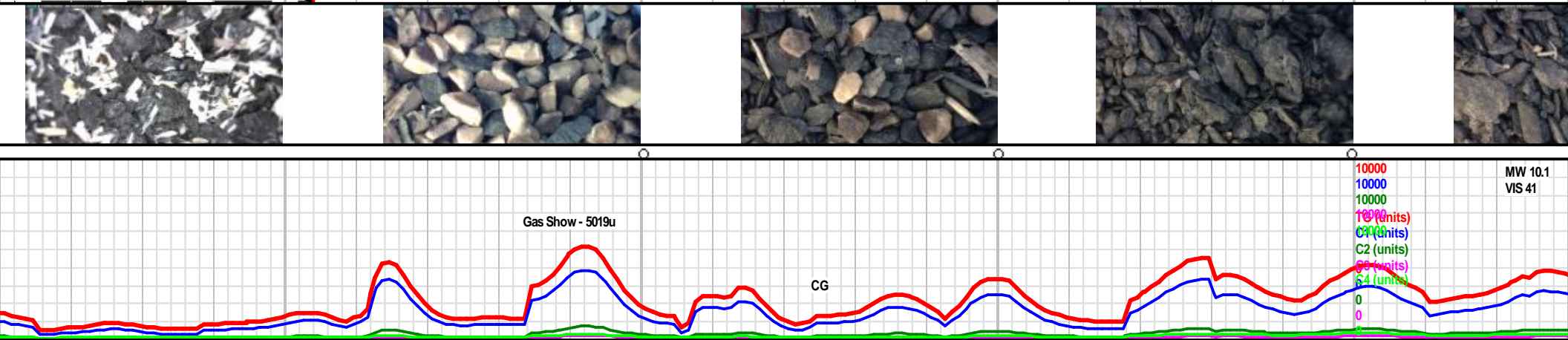
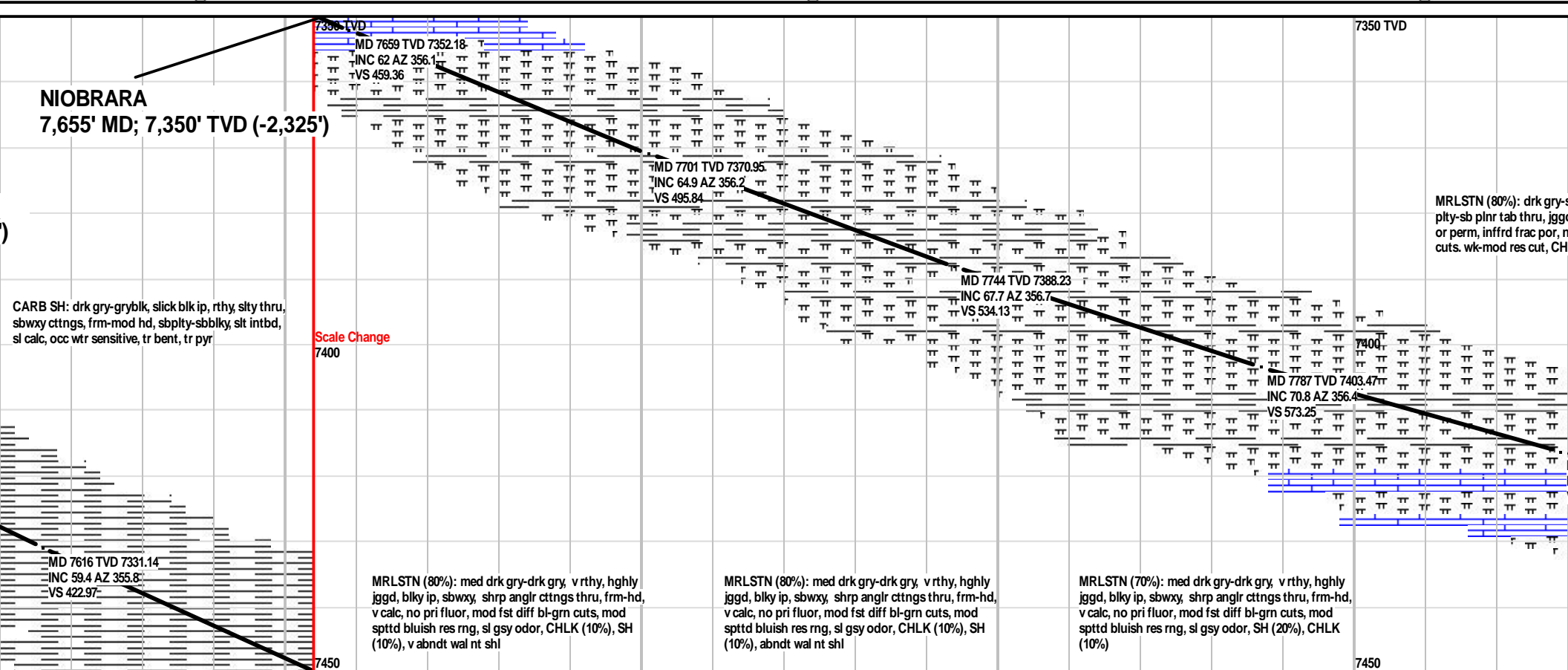
ROUNDING

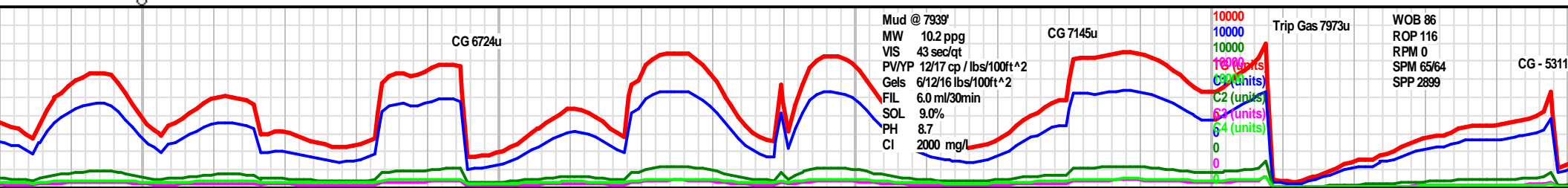
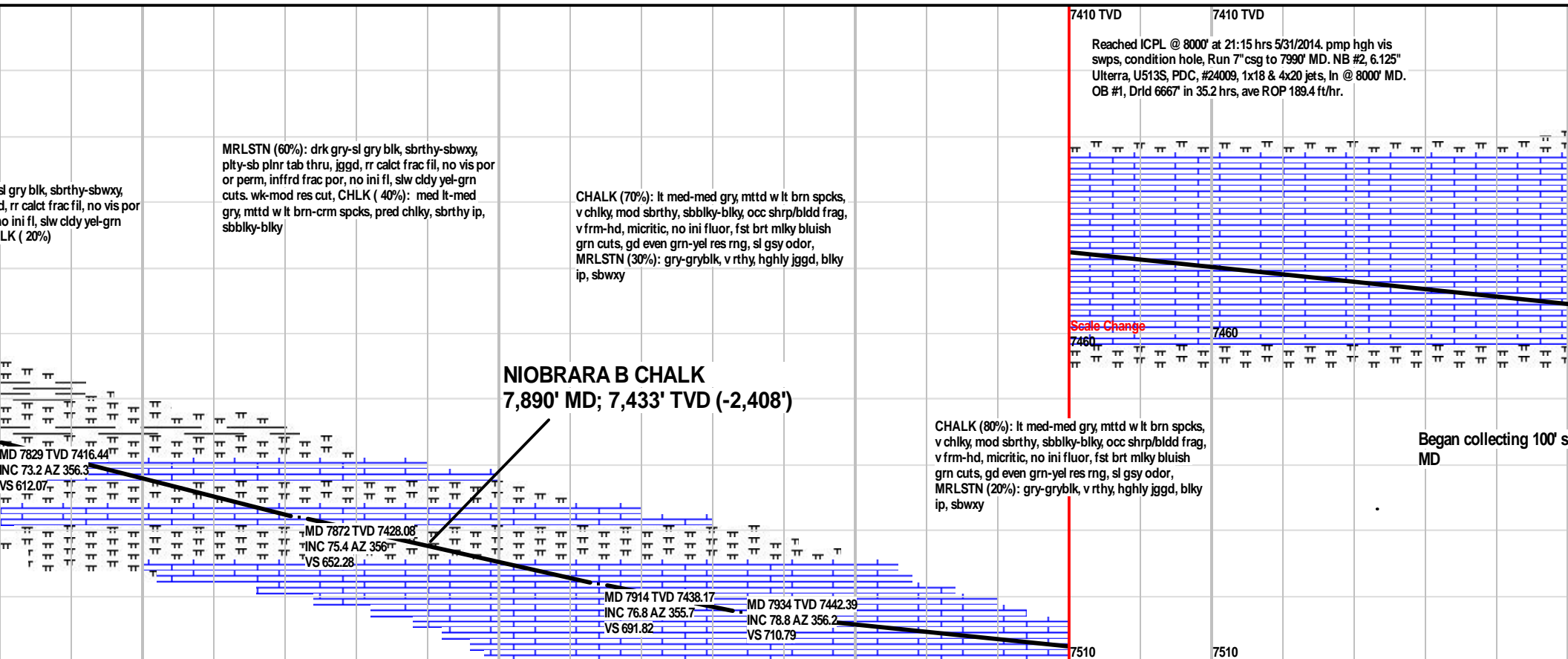
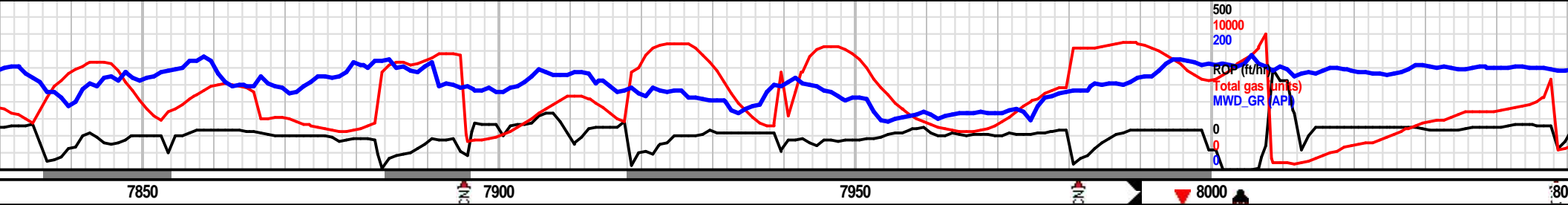
- Rounded
- Subrnd
- Subang
- Angular

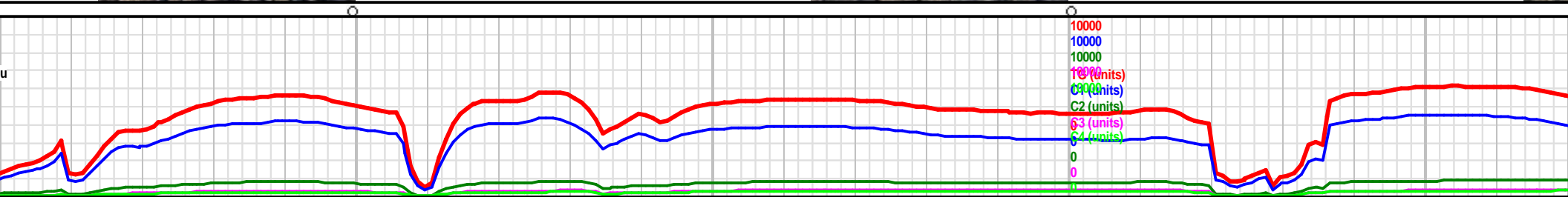
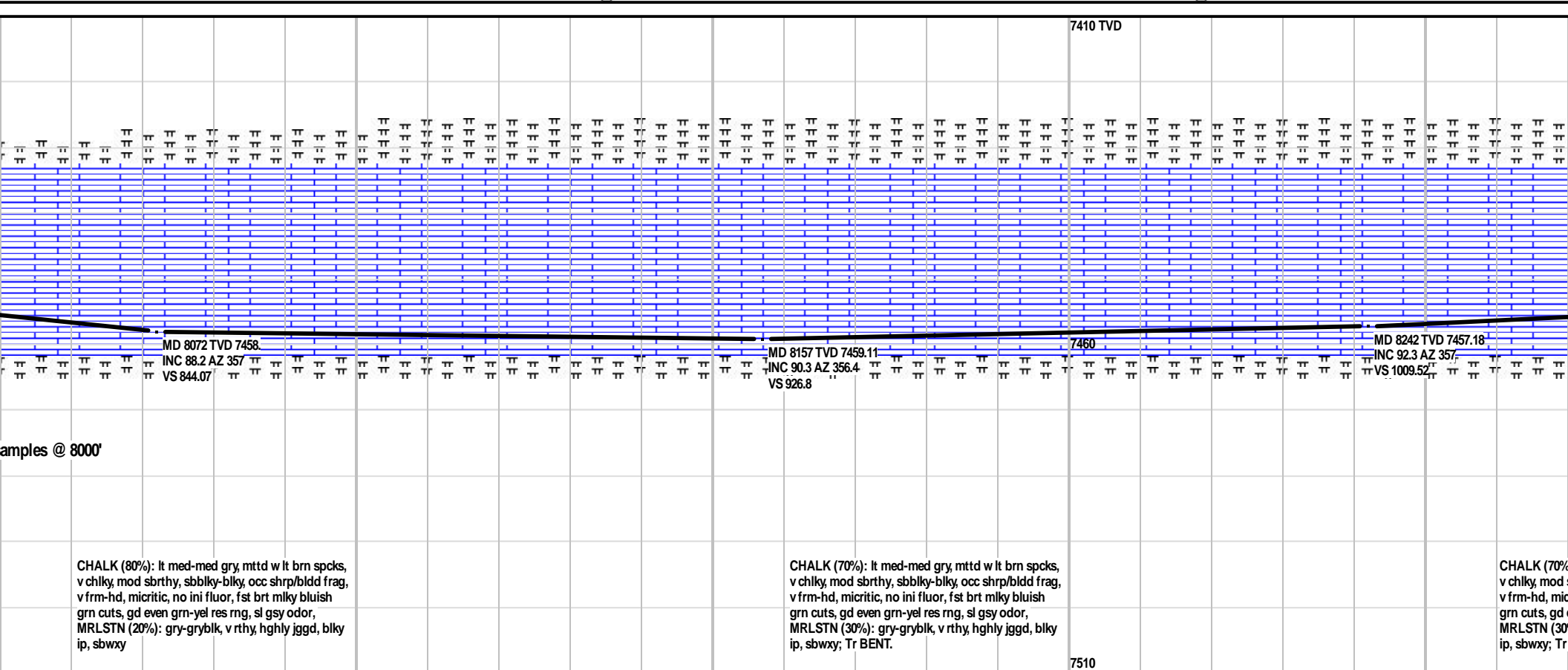
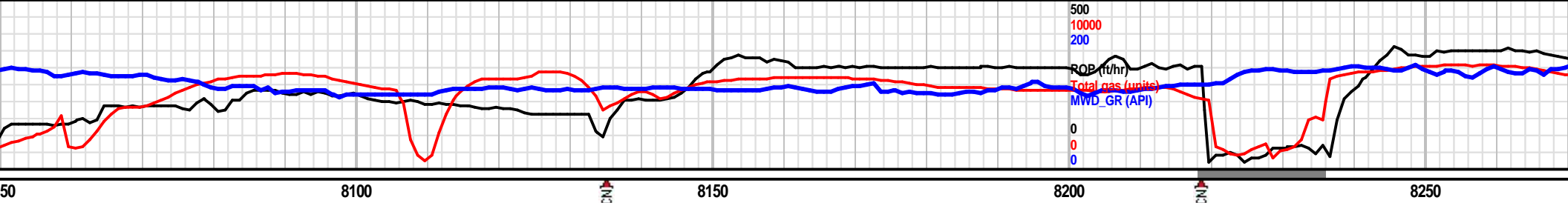
SORTING

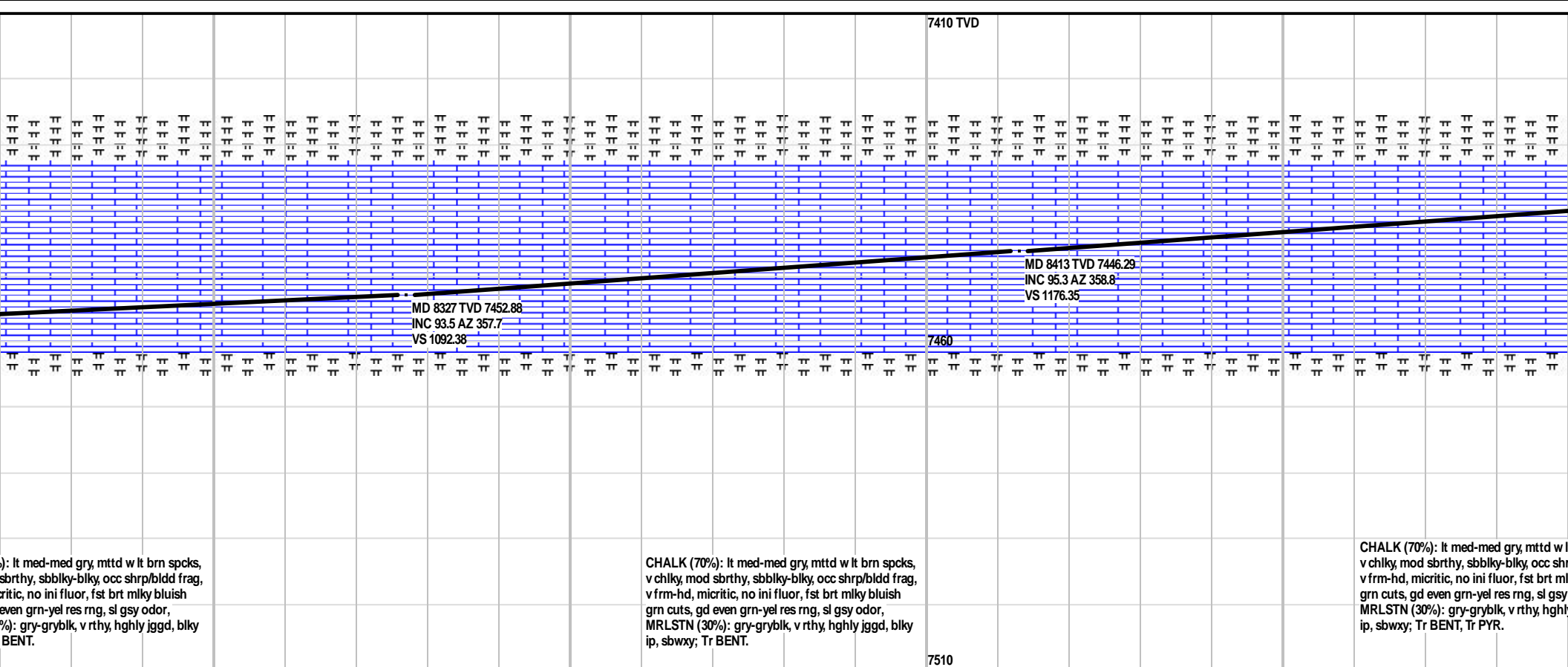
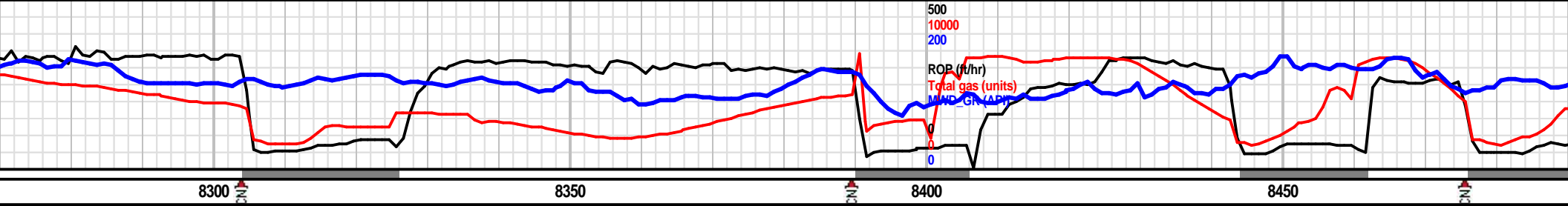
- Well
- Moderate
- Poor







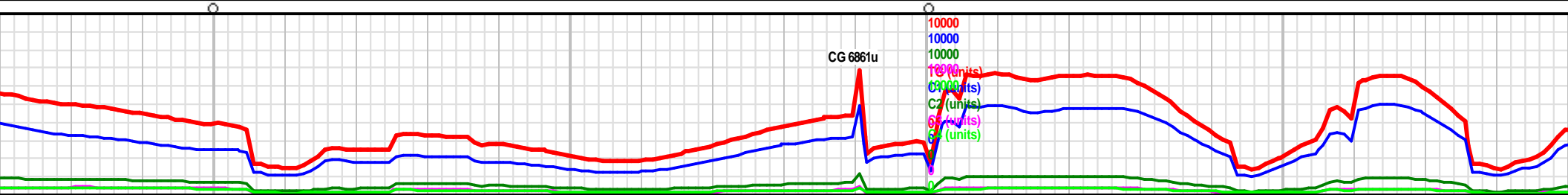


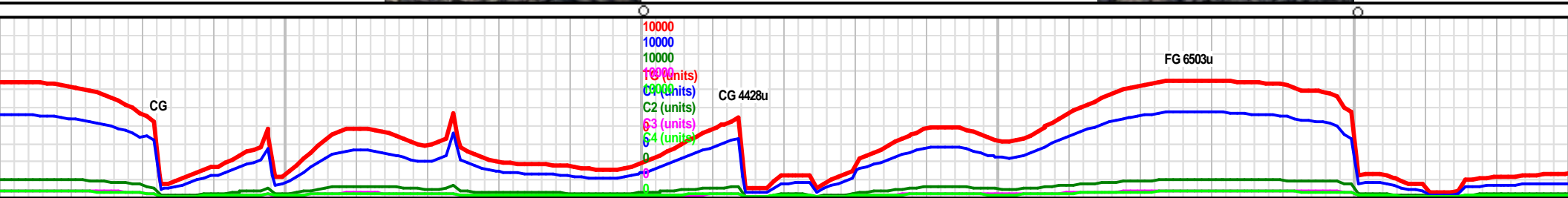
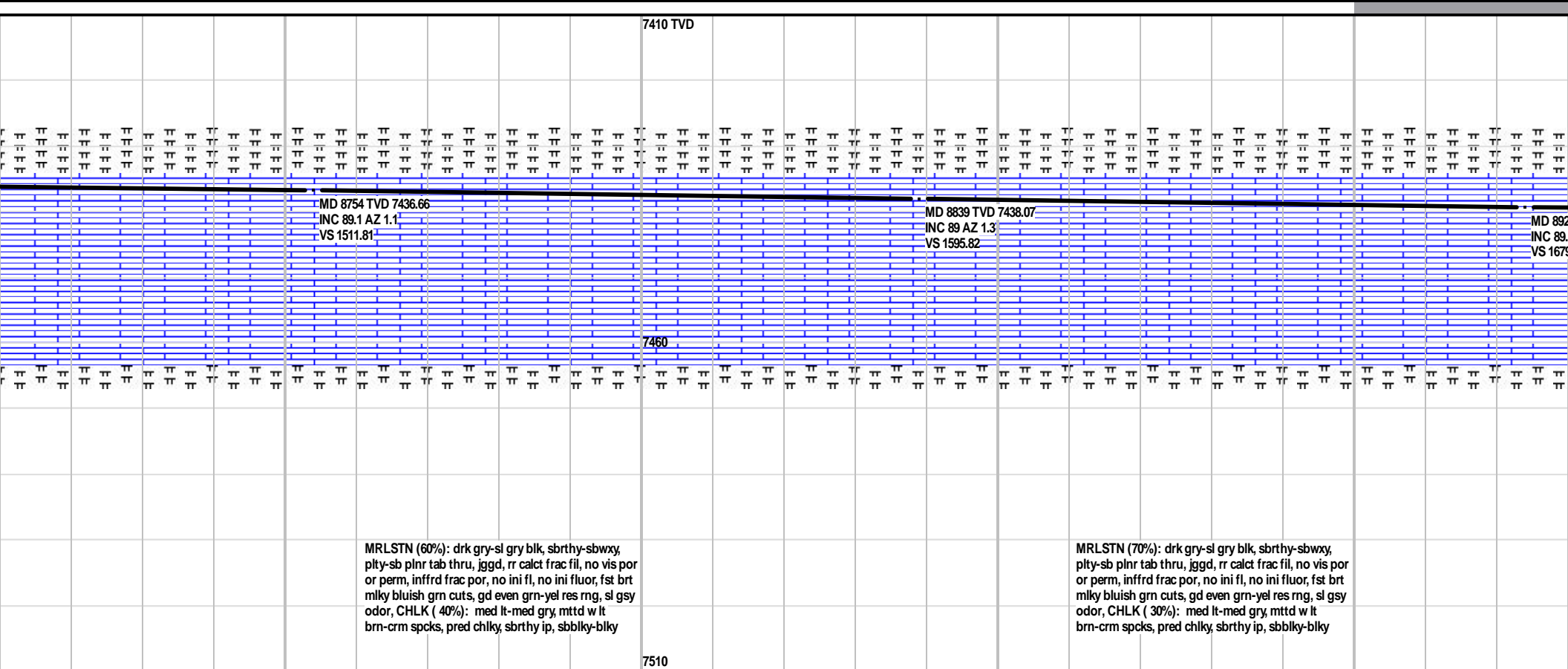


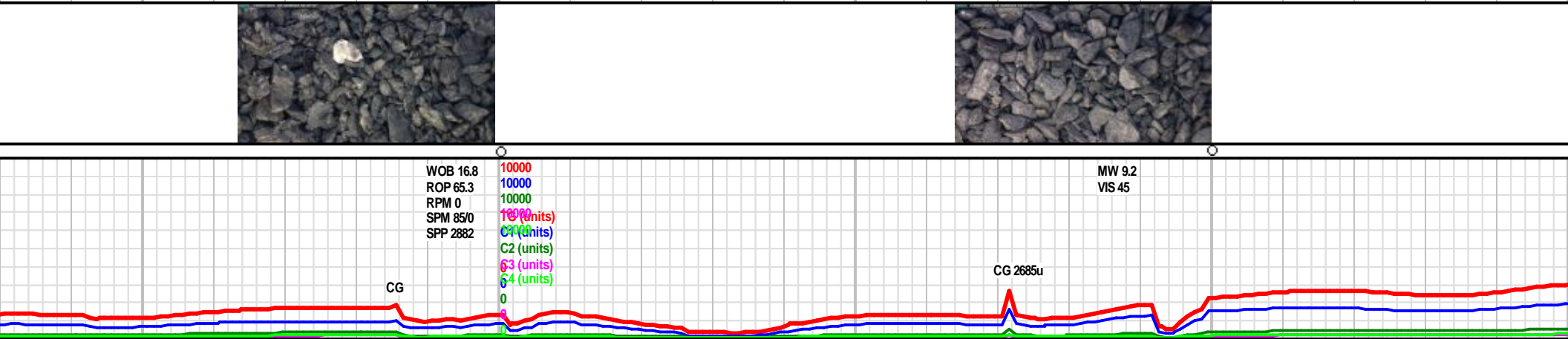
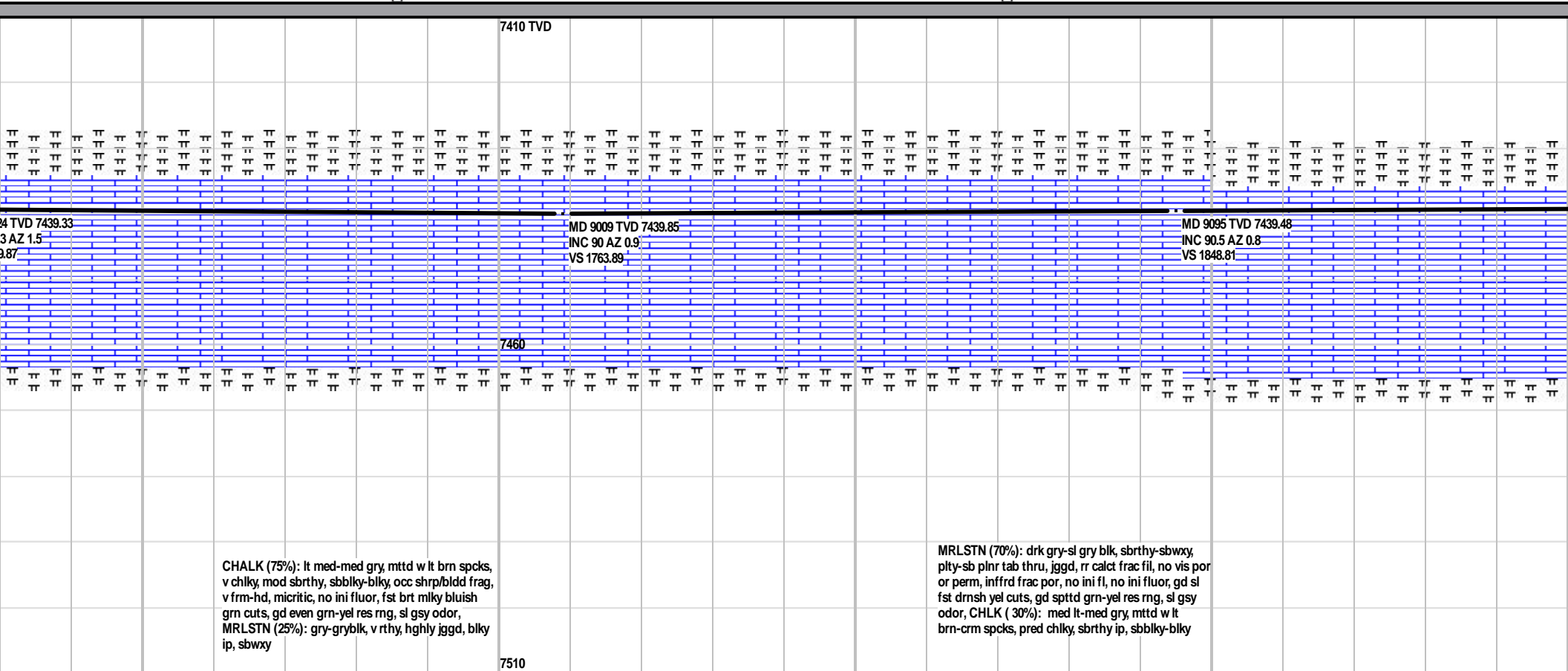
); It med-med gry, mttdd w lt brn spcks,
sbrthy, sbbly-bly, occ shrp/bldd frag,
v frn-hd, micritic, no ini fluor, fst brt mlky bluish
even grn-yel res rng, sl gsy odor,
%): gry-gryblk, v rthy, hghly jggd, blyk
BENT.

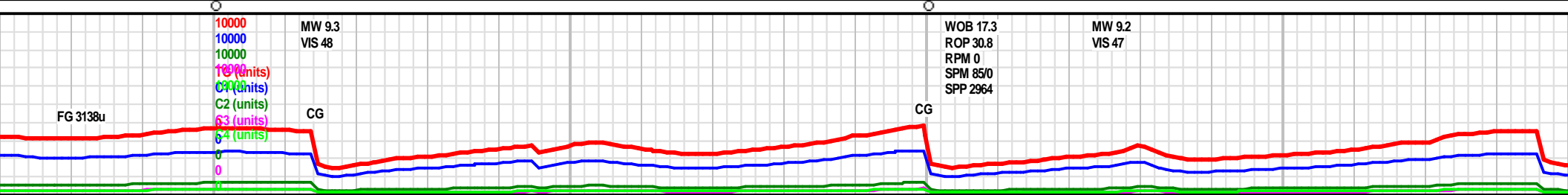
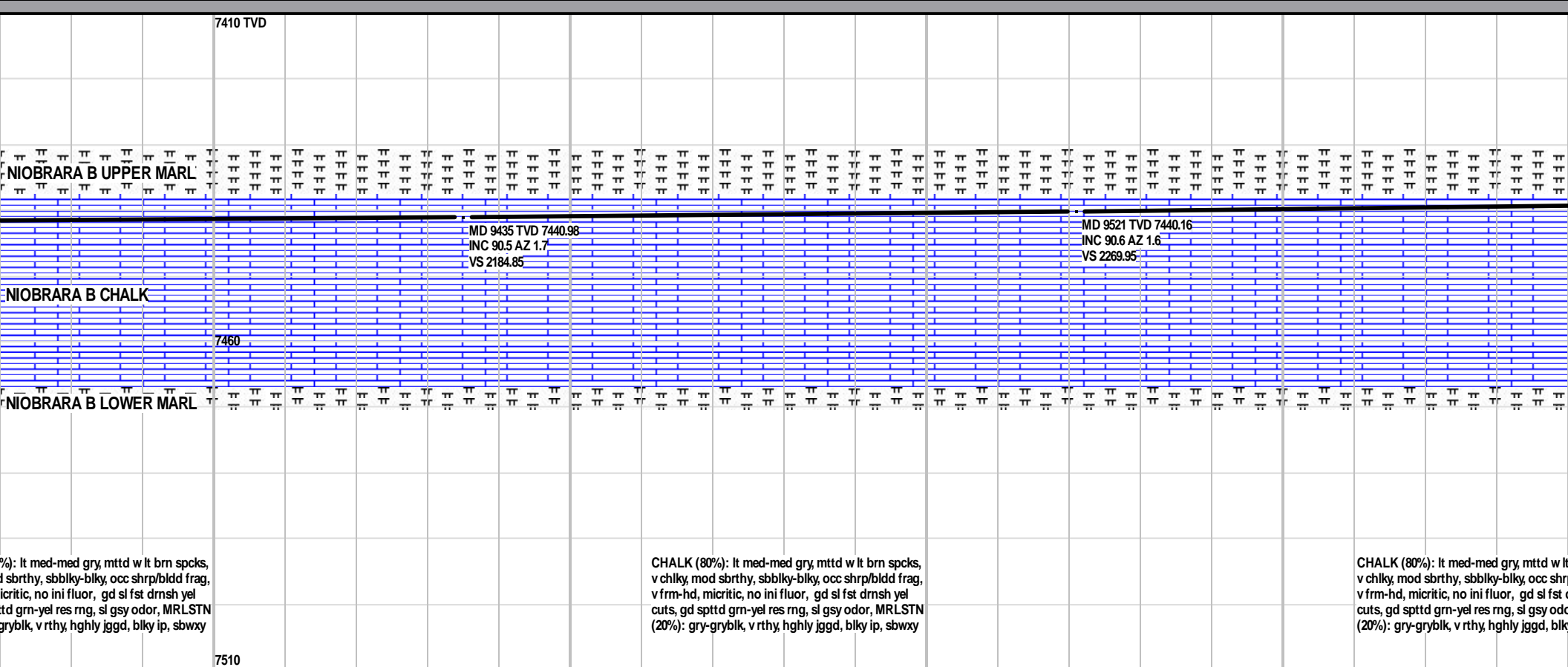
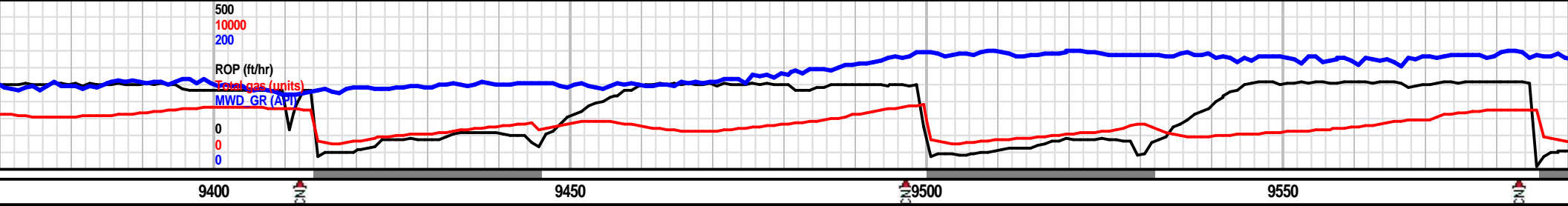
CHALK (70%): It med-med gry, mttdd w lt brn spcks,
v chly, mod sbrthy, sbbly-bly, occ shrp/bldd frag,
v frn-hd, micritic, no ini fluor, fst brt mlky bluish
grn cuts, gd even grn-yel res rng, sl gsy odor,
MRLSTN (30%): gry-gryblk, v rthy, hghly jggd, blyk
ip, sbwxy; Tr BENT.

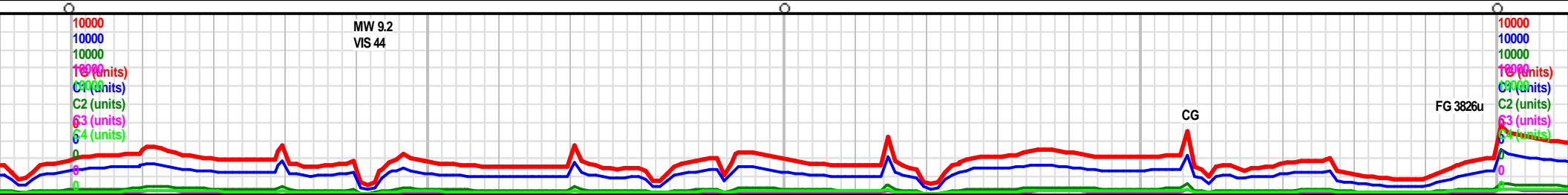
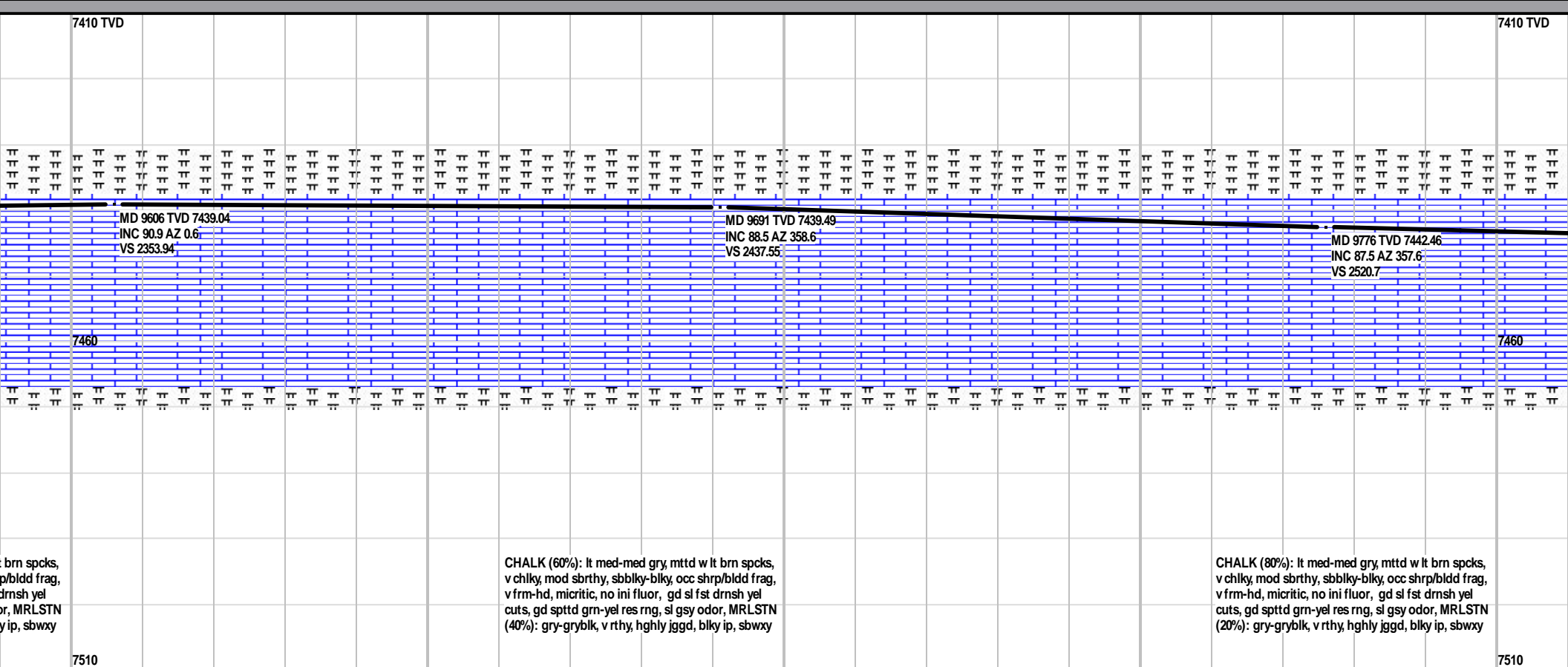
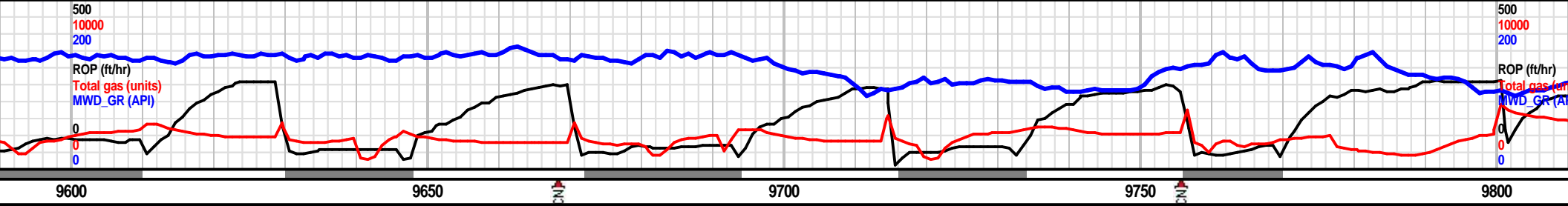
CHALK (70%): It med-med gry, mttdd w lt
v chly, mod sbrthy, sbbly-bly, occ shrp/bldd frag,
v frn-hd, micritic, no ini fluor, fst brt mlky bluish
grn cuts, gd even grn-yel res rng, sl gsy odor,
MRLSTN (30%): gry-gryblk, v rthy, hghly jggd, blyk
ip, sbwxy; Tr BENT, Tr PYR.

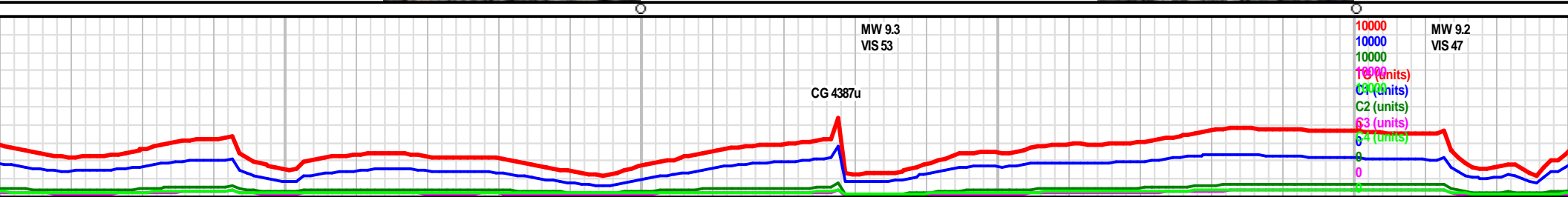
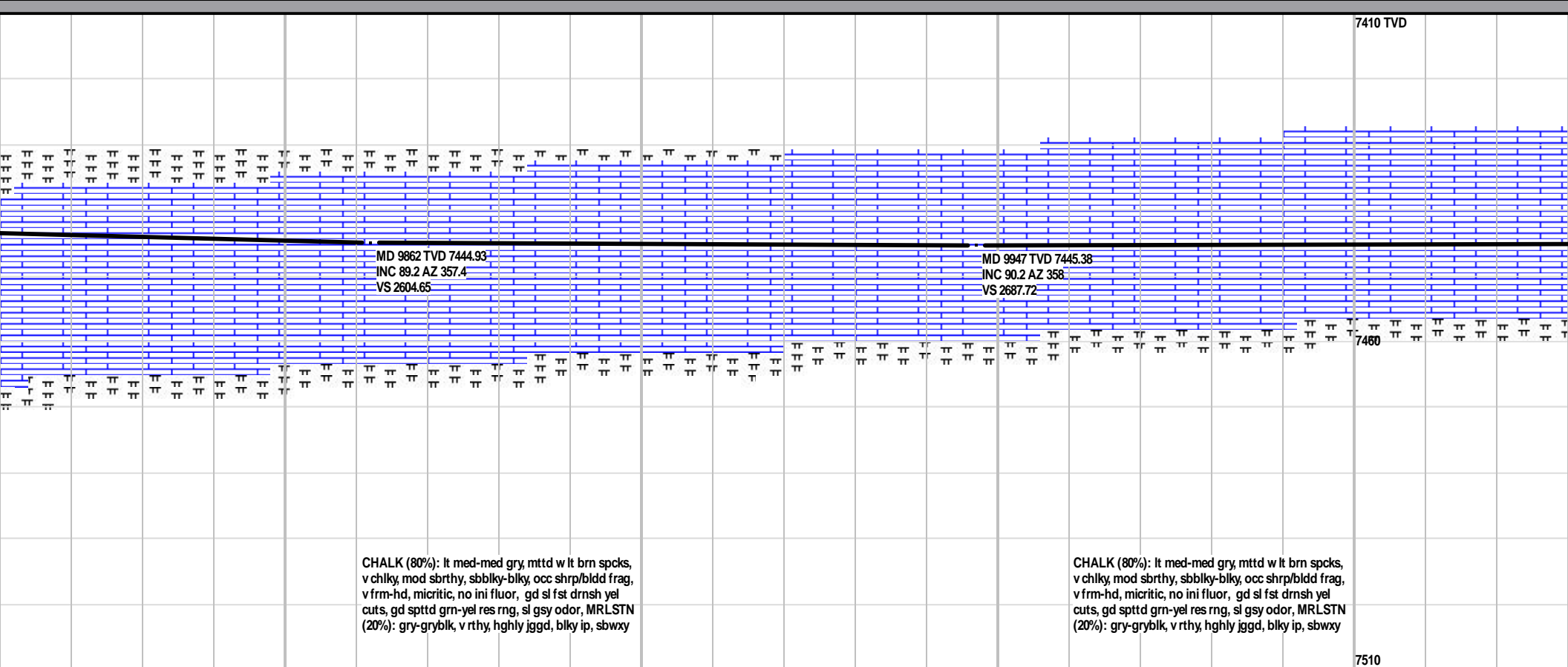
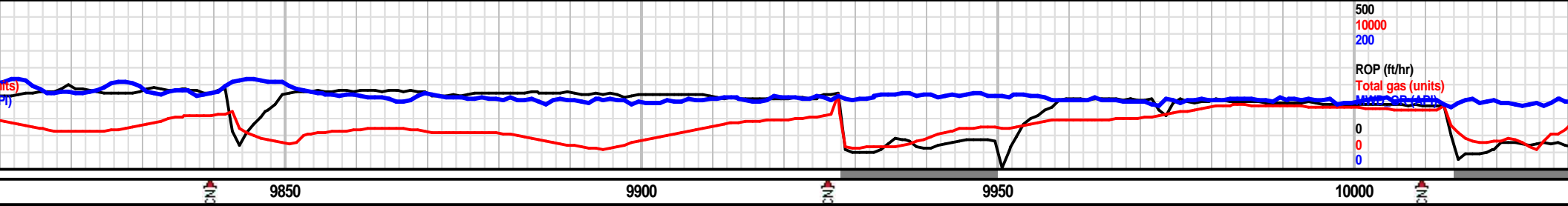


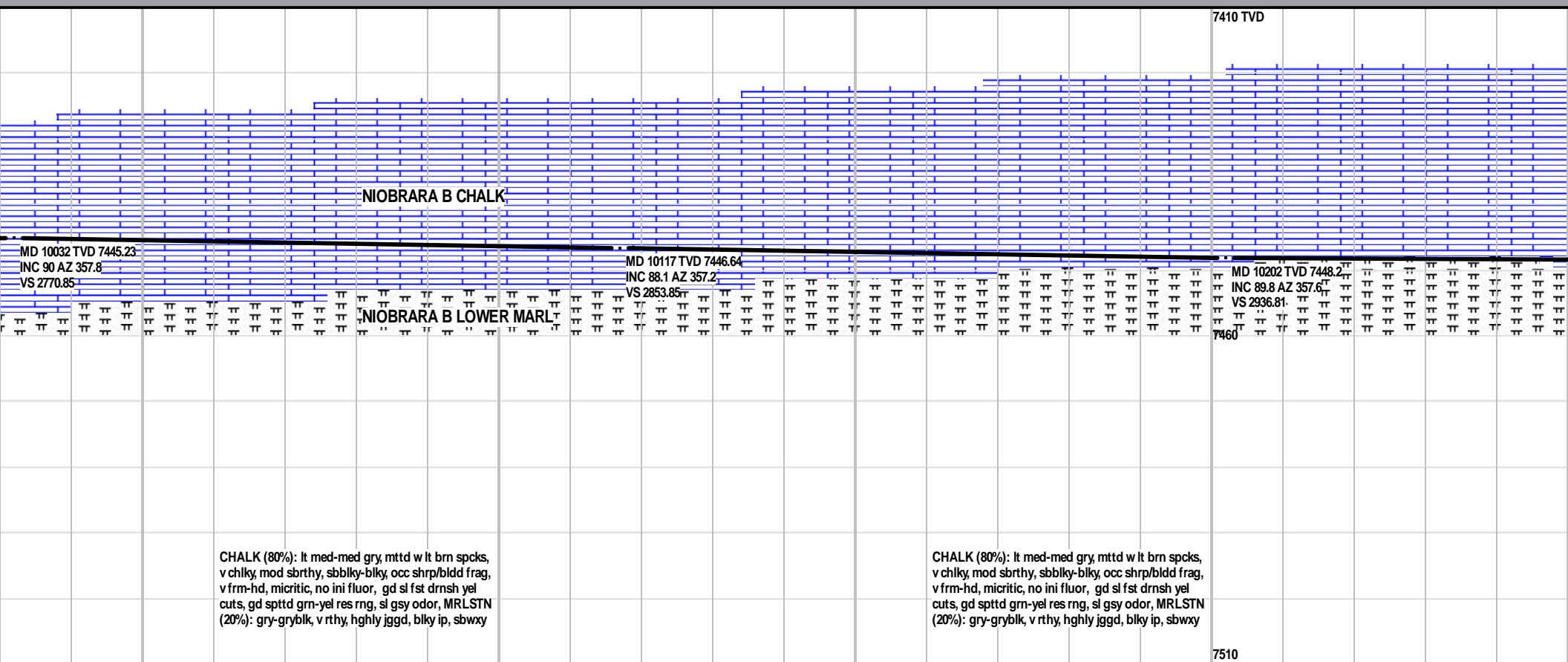
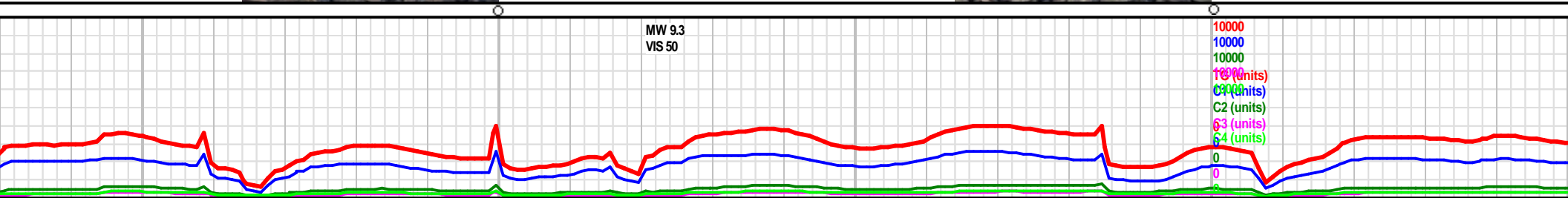


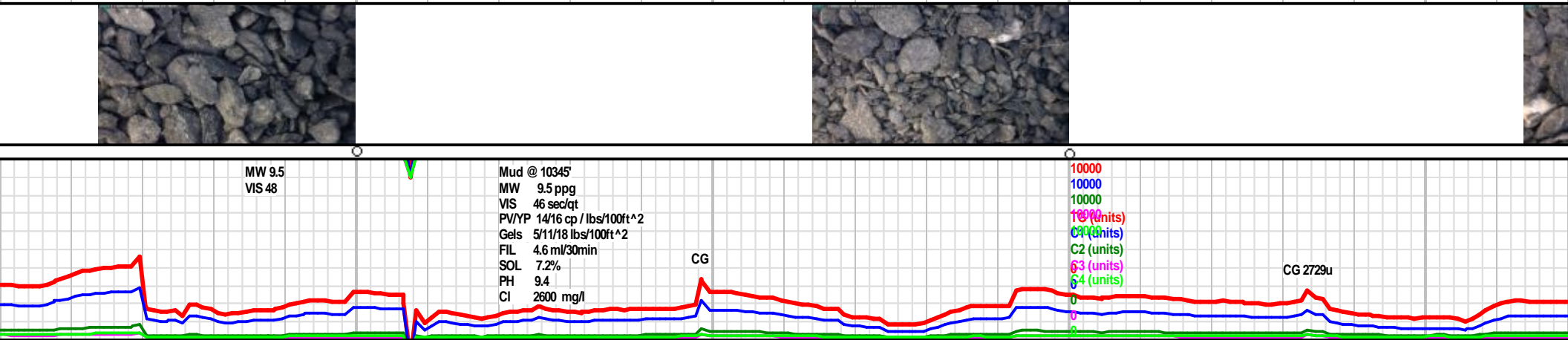
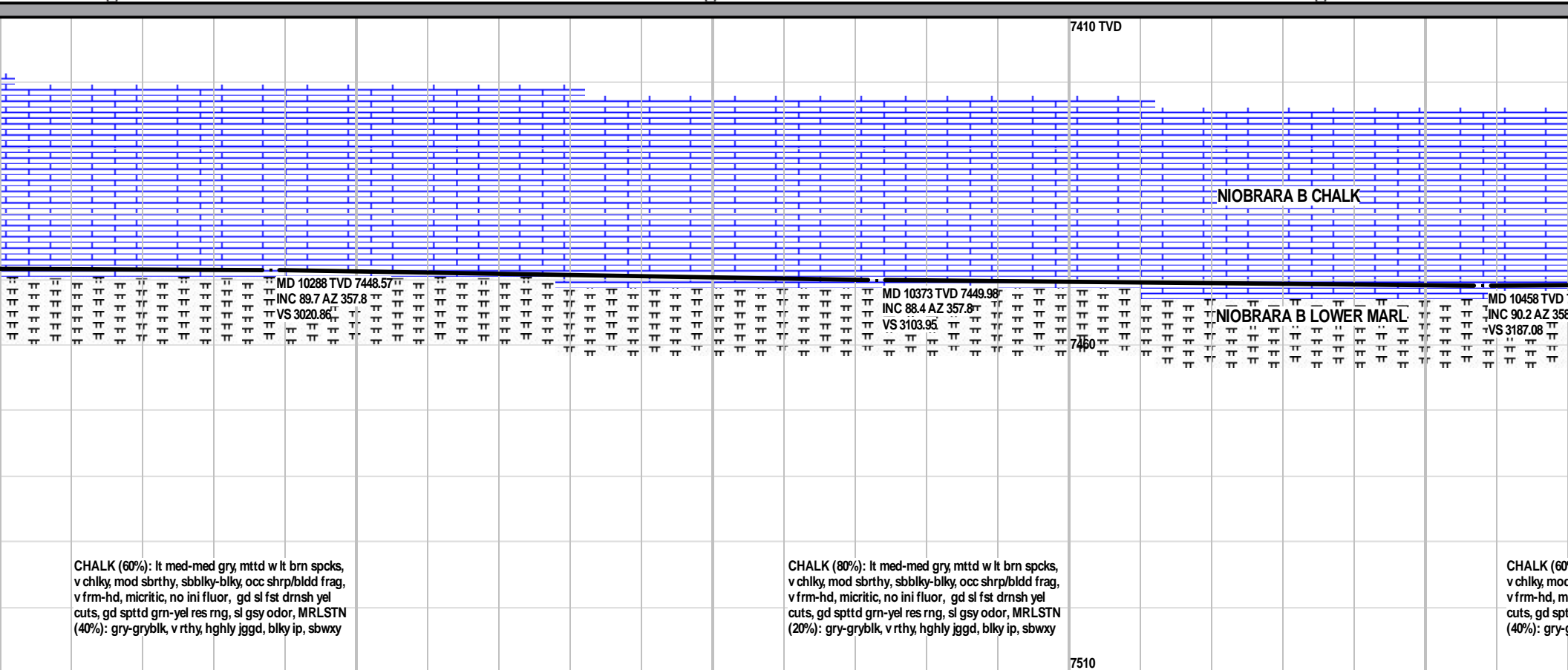
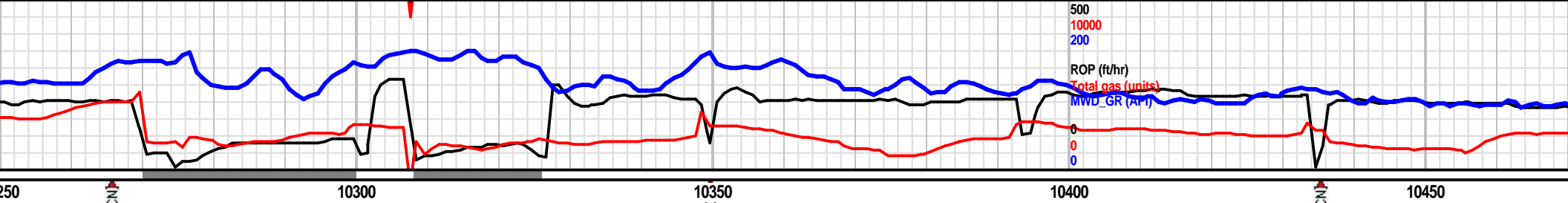


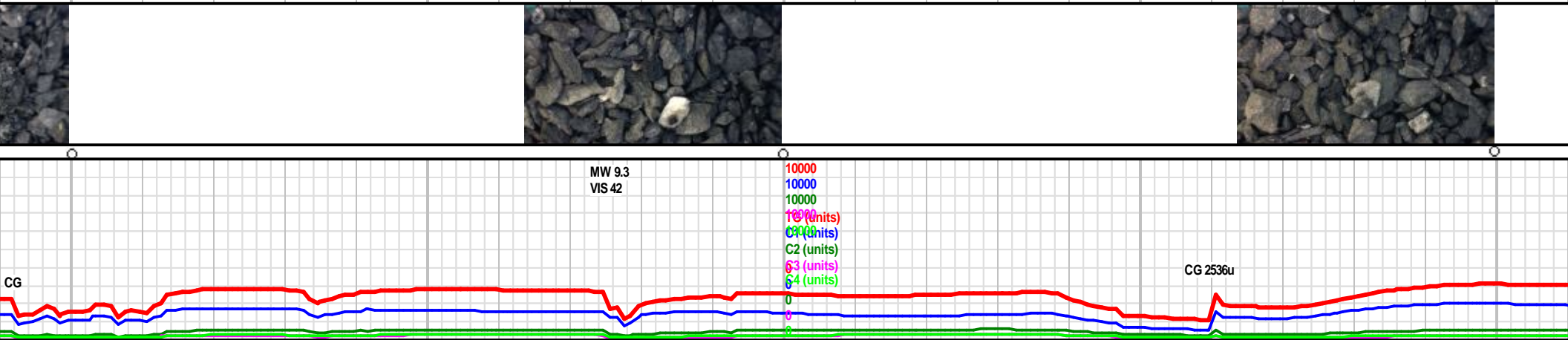
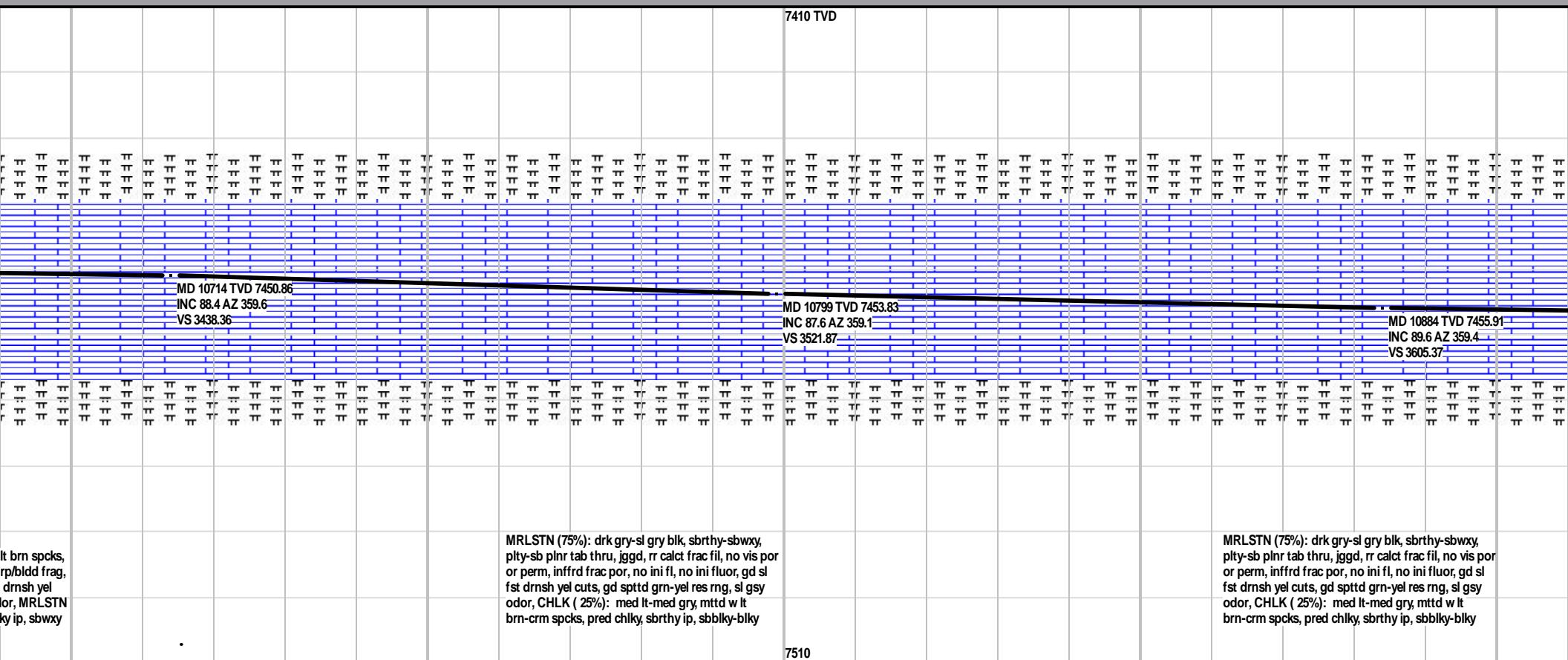
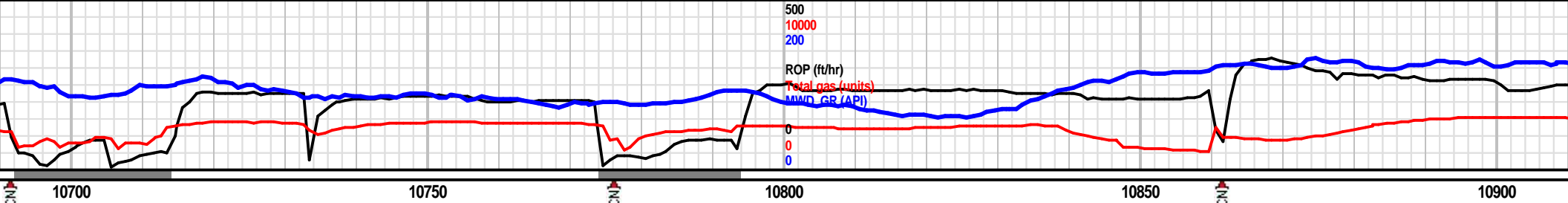


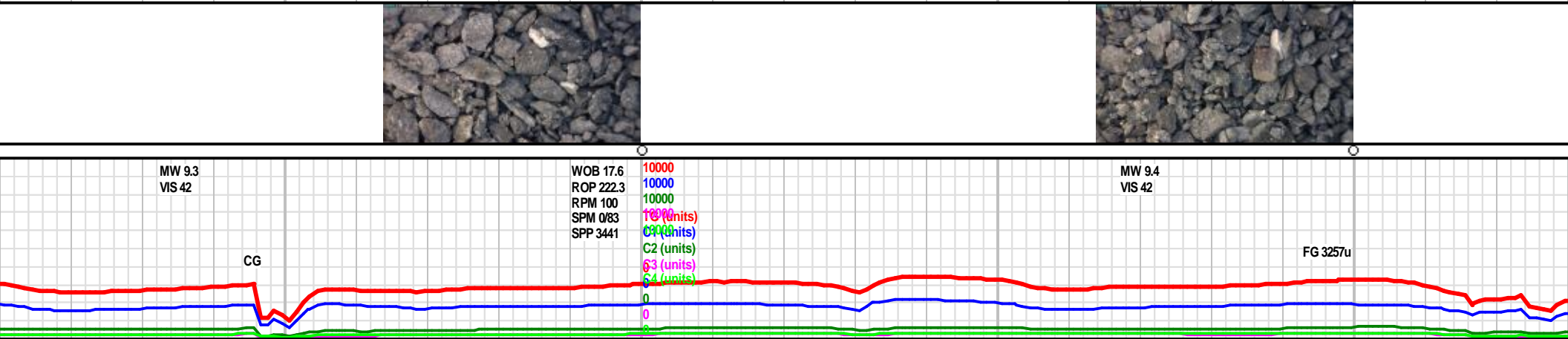
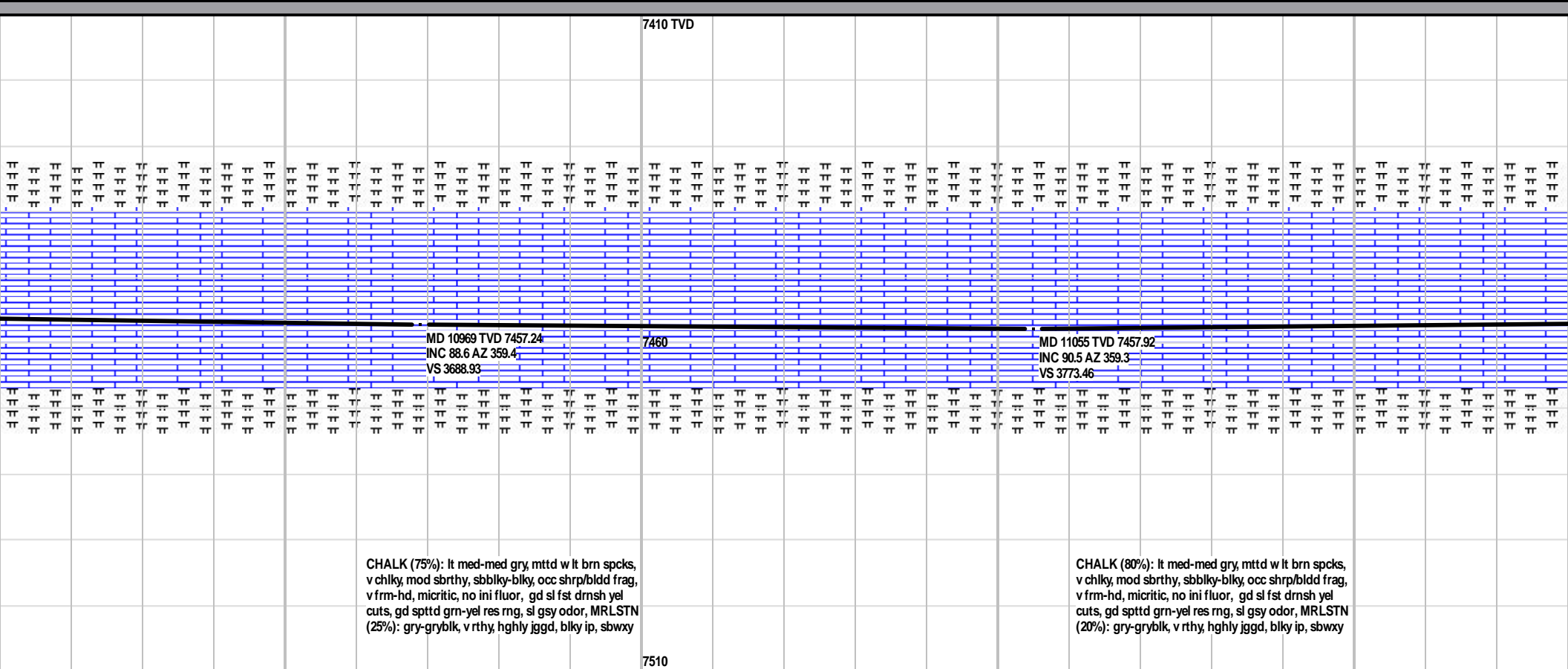


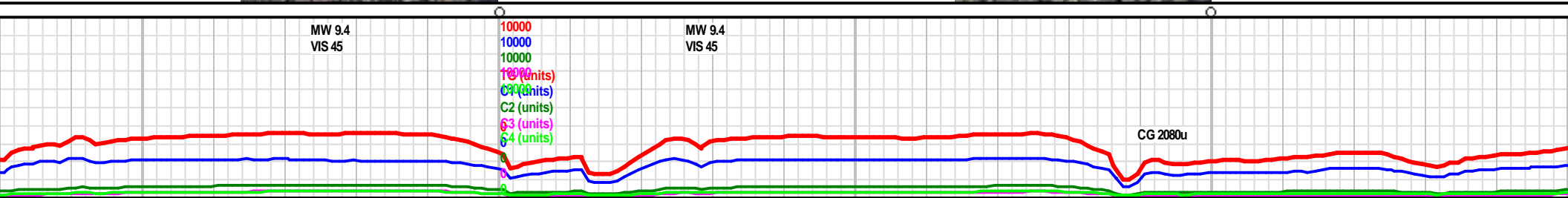
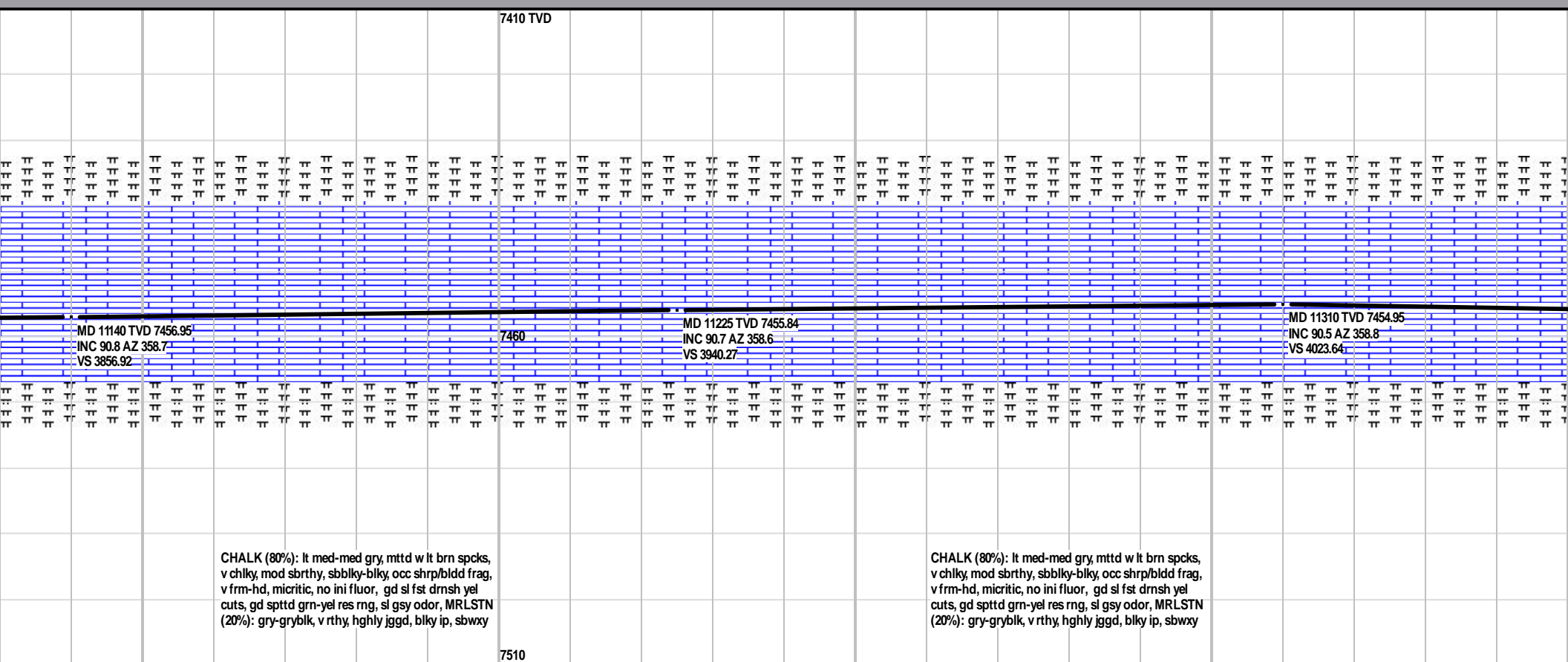
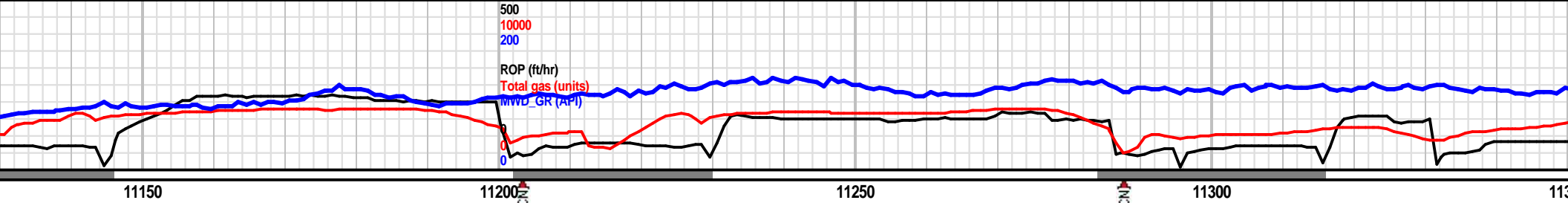


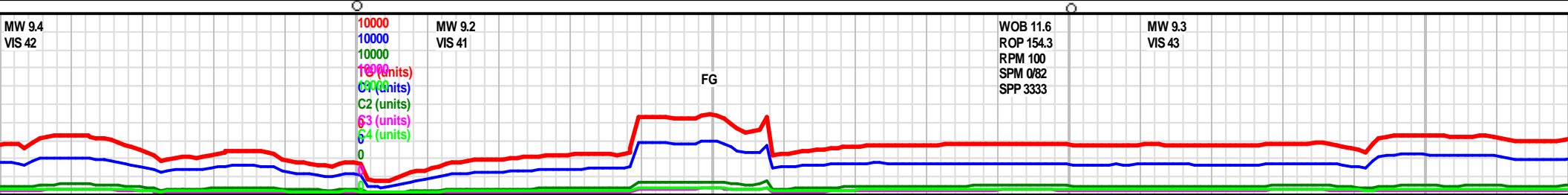
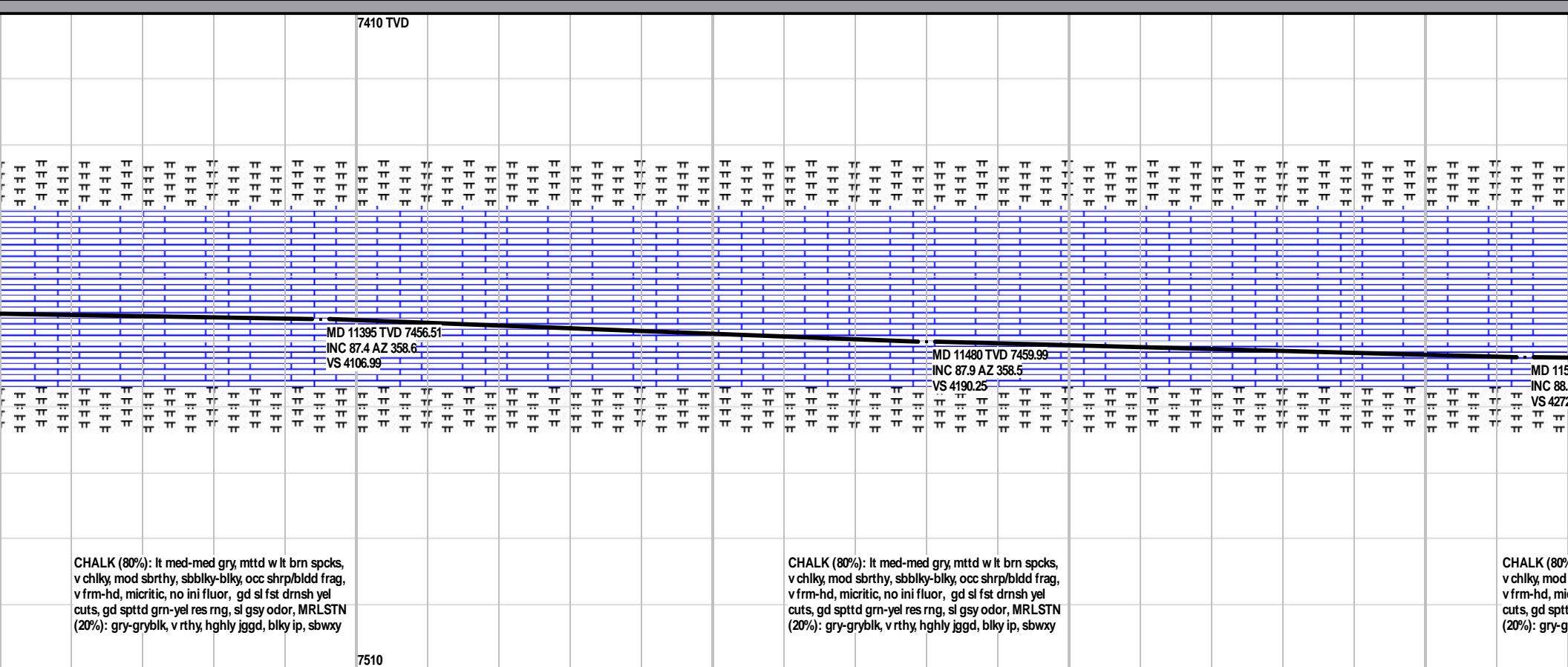
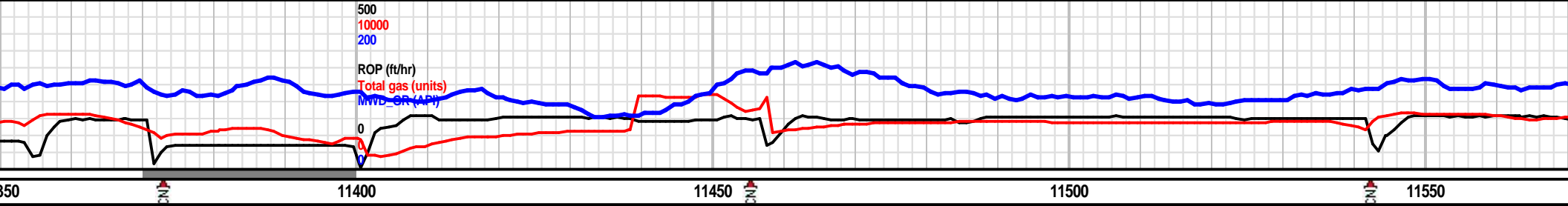
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VIS 50

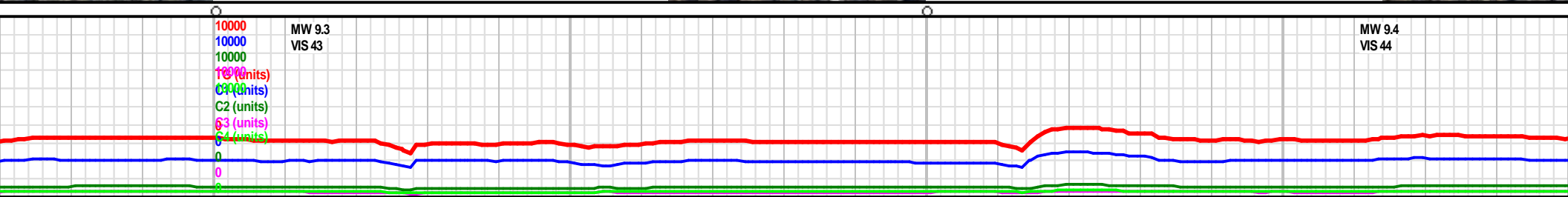
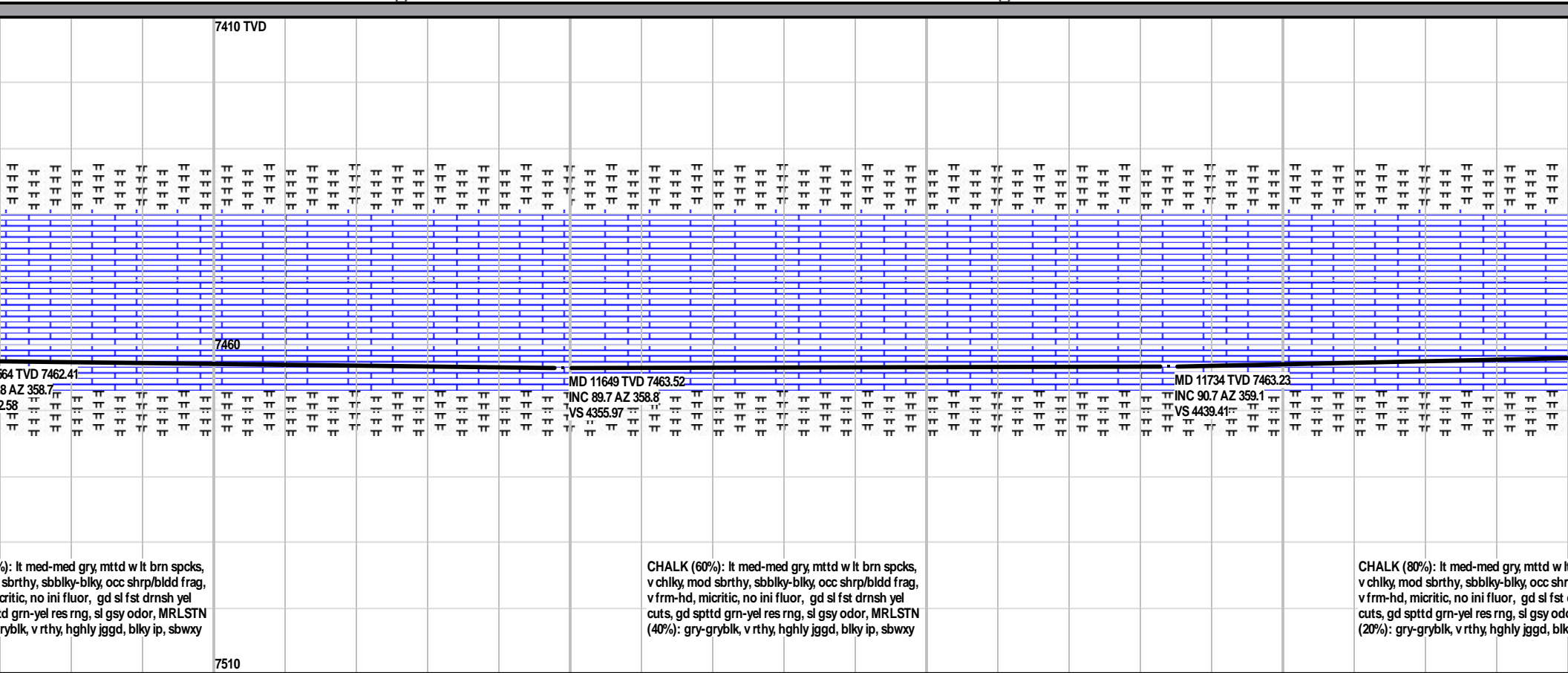


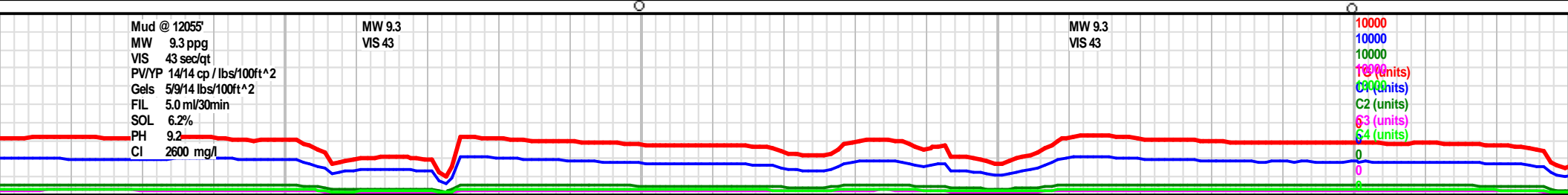
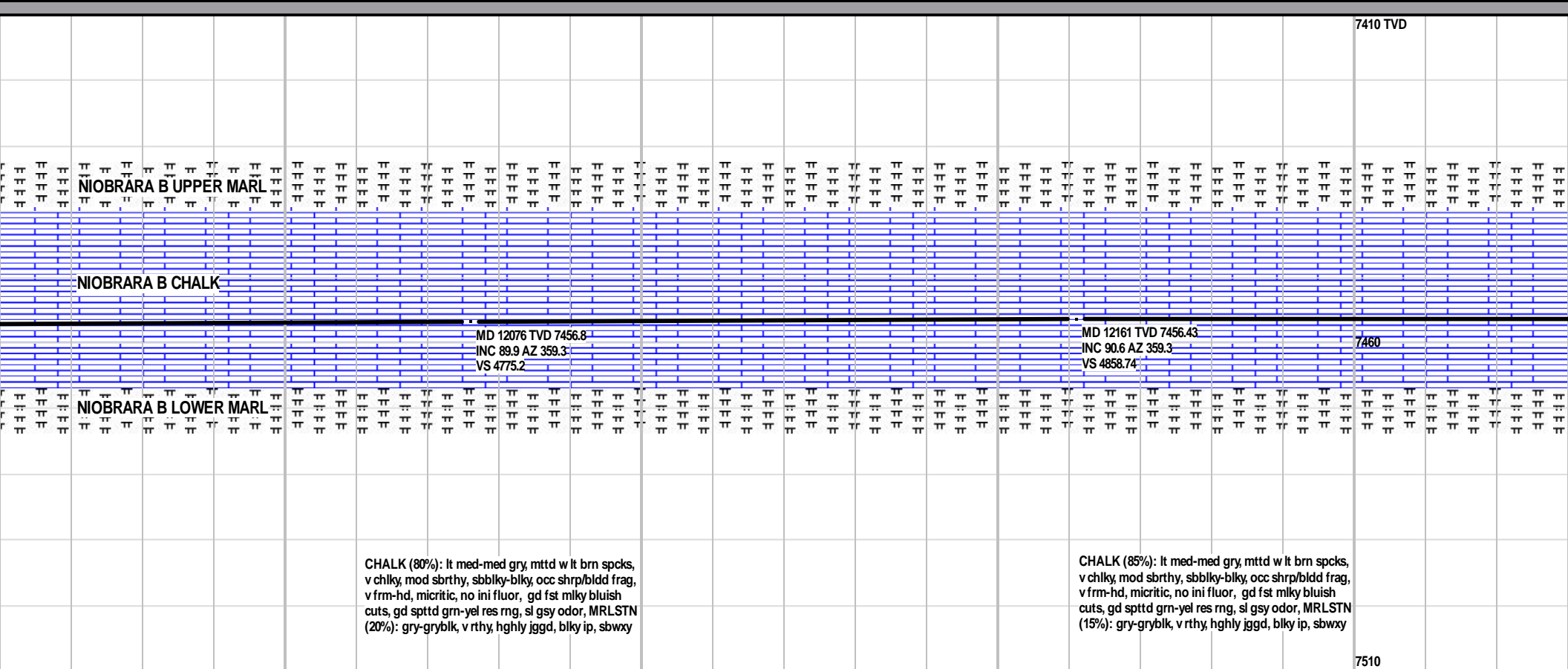


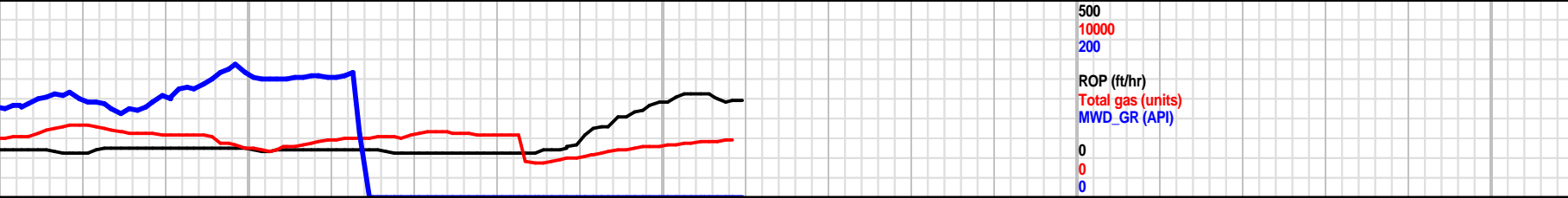










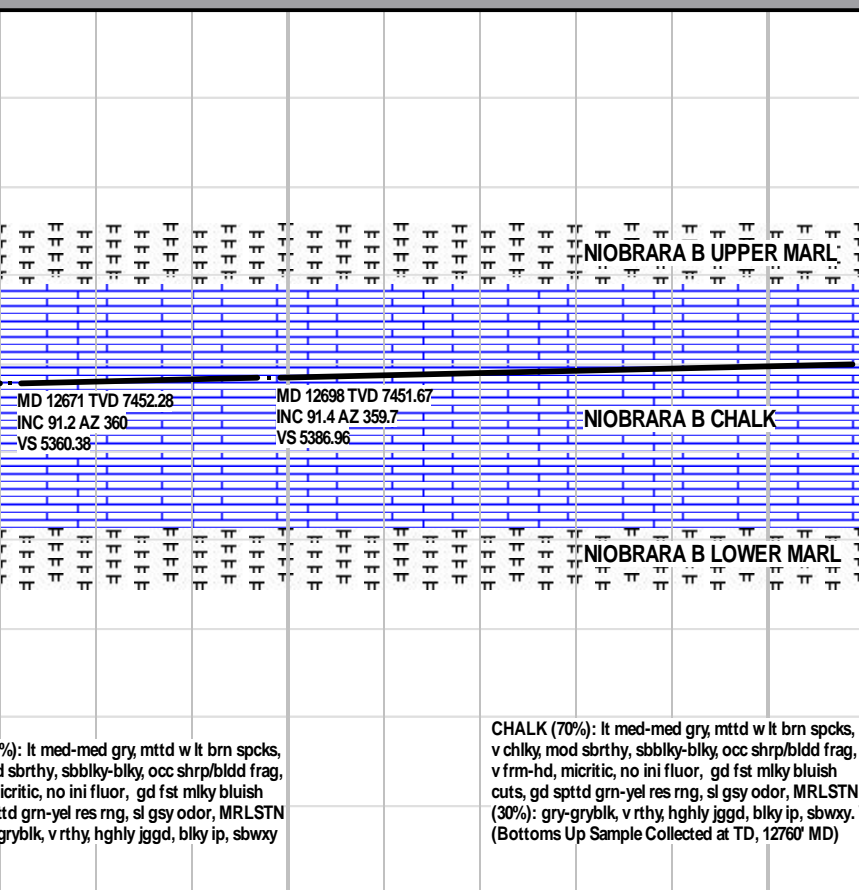


12700

12750

12800

12850



TD @ 12,760' MD, REACHED ON JUNE 6, 2014 @ 06:00 HRS, CIRCULATE BOTTOMS UP, BIT #2 DRILLED 4,760' IN 39.4 HRS, AVG ROP 121 ft/hr. WIPER TRIP TO SHOE, TRIP OUT OF HOLE FOR 4 1/2" LINER, SET @ 12,743' MD ON JUNE 7, 2014.

PROJECTED TO BIT IN THE NIOBRARA B CHALK

FORMATION TOPS

Sharon Springs	7,544' MD (7,292' TVD)
Niobrara A	7,655' MD (7,350' TVD)
Niobrara B Chalk	7,890' MD (7,433' TVD)
DMTD	12,760' MD
Production Liner	12,743' MD

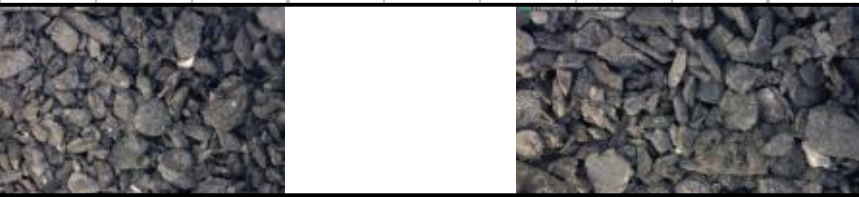
MD 12760 TVD 7450.15
INC 91.4 AZ 359.7
VS 5447.96

MD 12671 TVD 7452.28
INC 91.2 AZ 360
VS 5360.38

MD 12698 TVD 7451.67
INC 91.4 AZ 359.7
VS 5386.96

CHALK (70%): lt med-med gry, mttdd w lt brn spcks, v chlky, mod sbrthy, sbbilky-blky, occ shrp/blidd frag, v frm-hd, micritic, no ini fluor, gd fst mlky bluish cuts, gd spttd grn-yel res rng, sl gsy odor, MRLSTN (30%): gry-gryblk, v rthy, hghly jggd, blk ip, sbwxy. (Bottoms Up Sample Collected at TD, 12760' MD)

7510



MW 9.3
VIS 43

WOB 8.7
ROP 246.1
RPM 100
SPM 0/83
SPP 3596

CG 3134u

