

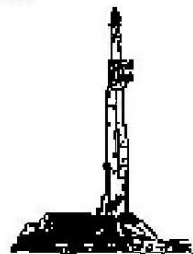
**GOOLSBY BROTHERS**  
and associates, inc.

575 Union Blvd, Suite 208  
Lakewood, CO 80228  
303-945-2860 Office



Geological Wellsite  
Supervision

[www.goolsbybrothers.com](http://www.goolsbybrothers.com)



Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: SCOTT 26N-32HZ

API: 05123388270000

Location: Section 5, T2N, R67W

License Number:

Spud Date: May 11, 2014

Surface Coordinates: SENE Sec 5 T2N R67W; 2446' FNL, 870' FEL

LAT: 40° 10'06.403 N LONG: 104° 54'27.091 W

Bottom Hole Coordinates: NENE Sec 32 T3N R67W; 510' FNL; 223' FEL

Ground Elevation (ft): 4874'

Logged Interval (ft): 6950'

To: 14570'

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

Type of Drilling Fluid: Water & Poly to 5000', LSND 5000'-14570'

K.B. Elevation (ft): 4890'

Total Depth (ft): 14570' DMTD

Region: Wattenberg, DJ Basin

Drilling Completed: May 22, 2014

Printed by HORIZONTAL.LOG from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://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 & Larry Goolsby

Company: Goolsby Brothers & Assoc. (GBA), Inc. ([www.goolsbybrothers.com](http://www.goolsbybrothers.com))

Address: 575 Union Blvd.

Suite 208,

Lakewood CO. 80228

## E-logs

MWD GR 6700' - 14524.5'

## Casing

9 5/8" Surface Casing set @ 1017' MD


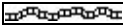
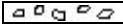


7" Intermediate Casing set @ 7533' MD



4 1/2" Production Liner hung 05/24/2014, landed @ 14560' MD

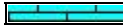




## Comments






- 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

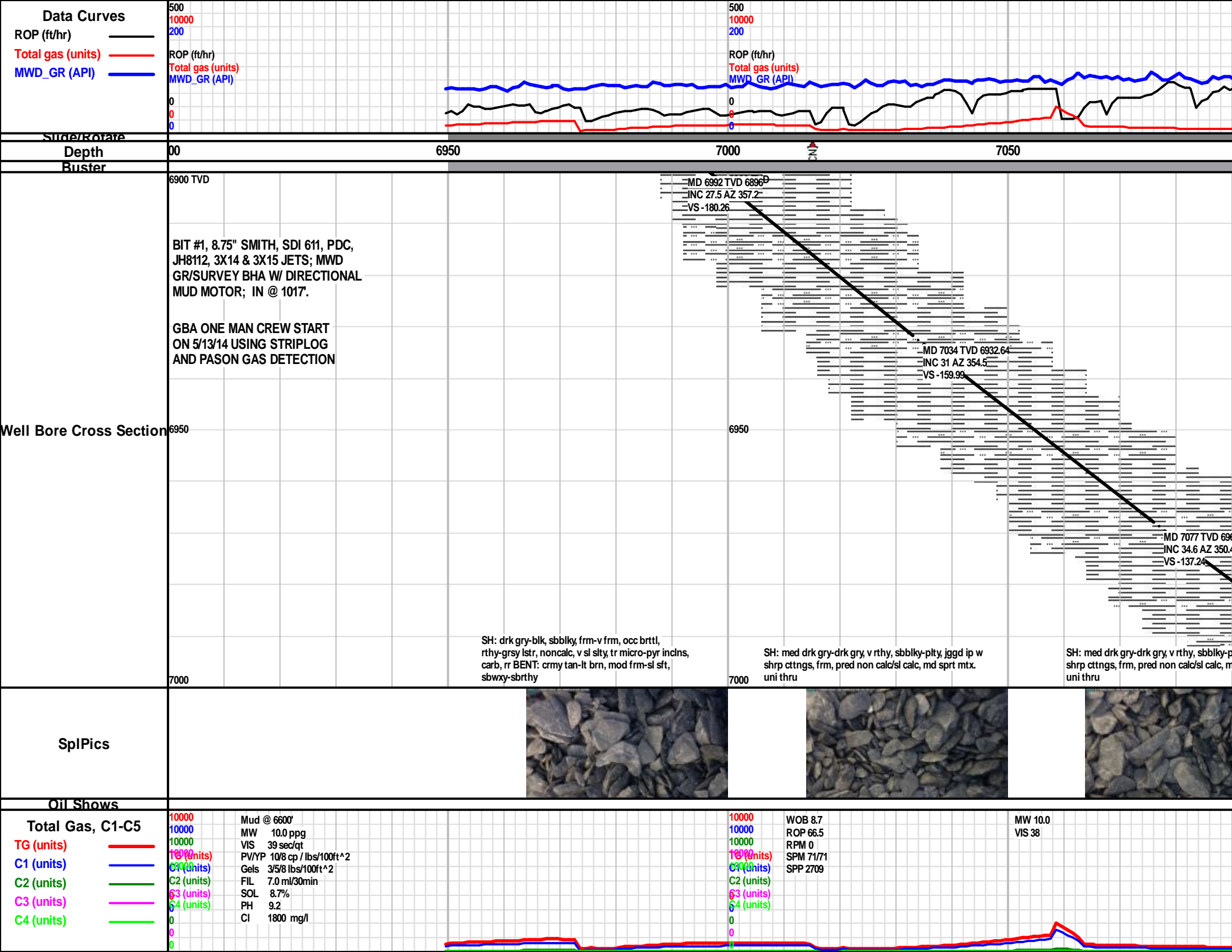
- ⊗ Inter
- ⊗ Moldic
- ◑ Organic
- ◑ Pinpoint
- ◑ Vuggy

### ROUNDING

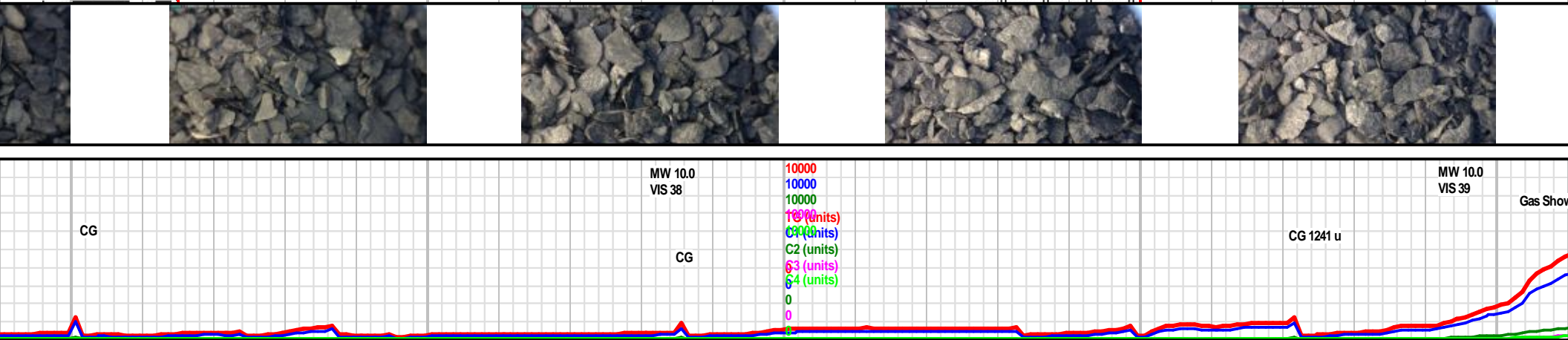
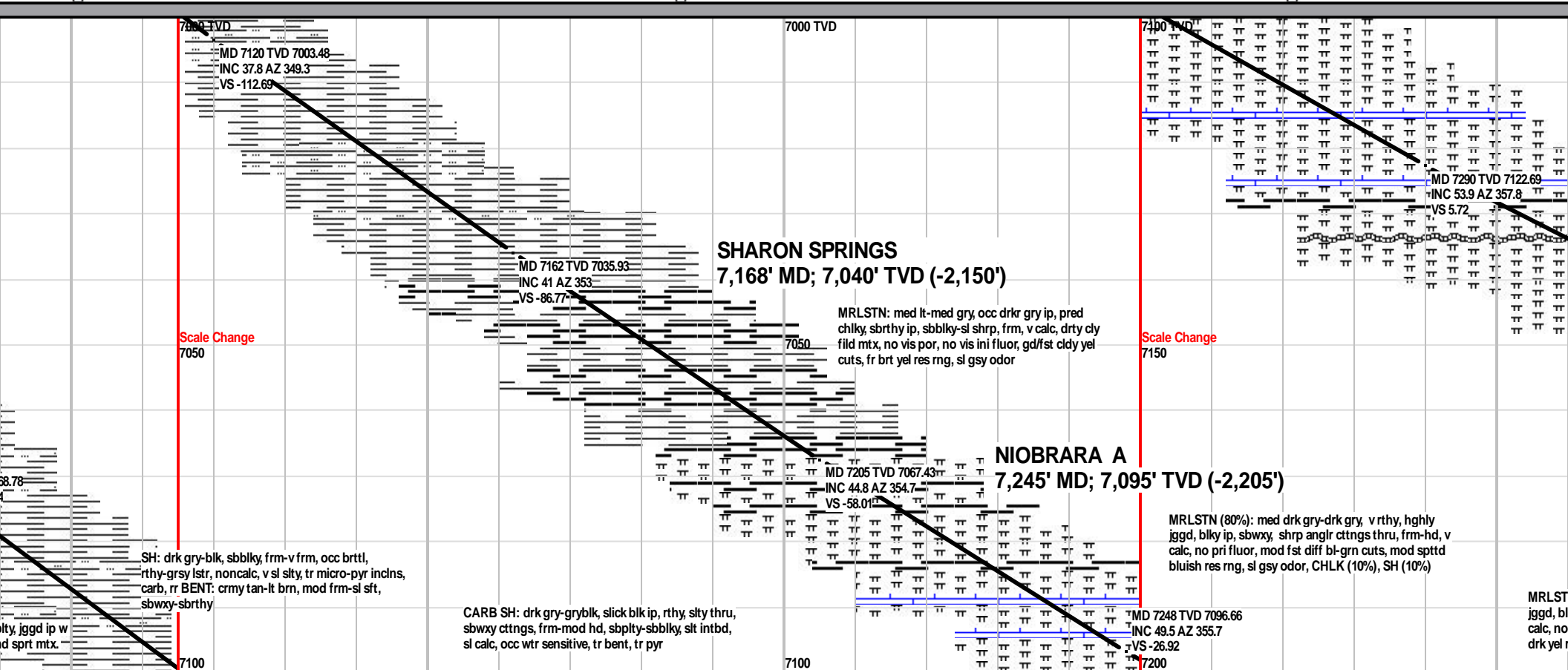
- ◑ Rounded
- ◑ Subrnd
- ◑ Subang
- ◑ Angular

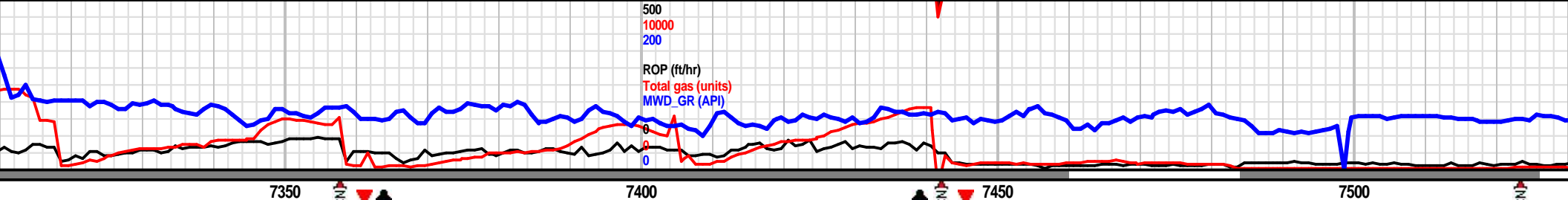
### SORTING

- ◑ Well
- ◑ Moderate
- ◑ Poor









Trip @ 7361' MD for new BHA. Bit #2  
8.75"; SECURITY 3 3/4" 5 Blade w/  
5X20's in at 7,361' with a  
PERFORMANCE 2.12° mud motor.

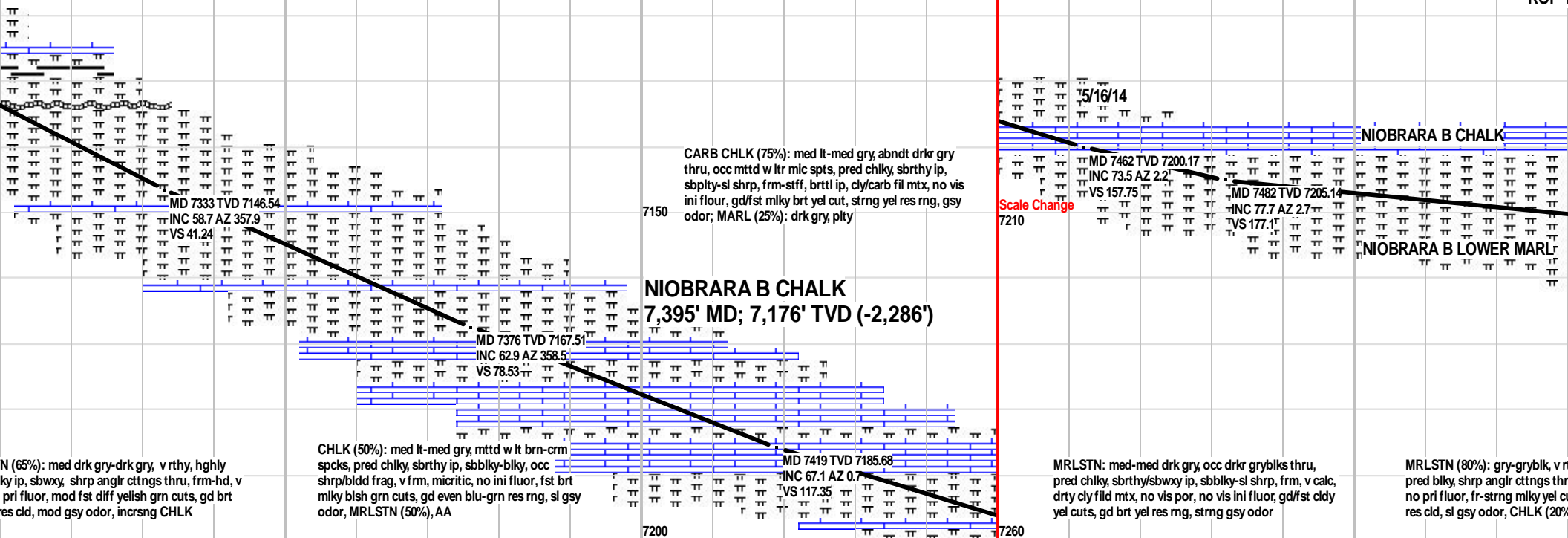
5/15/14

7100 TVD

Trip @ 7445' MD for new BHA. Bit #3  
8.75"; BAKER HUGHES Tri-cone w/  
3X24's in at 7,445' with a PERFORMANCE  
3.0° mud motor.

7160 TVD

Reach  
pmp h  
7" csg  
U513S  
@ 754  
ROP 1



N (65%): med drk gry-drk gry, v rthy, highly  
ky ip, sbwxy, shrp anglr ctngs thru, frm-hd, v  
pri fluor, mod fst diff yelish grn cuts, gd brt  
res cid, mod gsy odor, incrsng CHLK

CHLK (50%): med lt-med gry, mtd w lt brn-crm  
spcks, pred chiky, sbrthy ip, sbbiky-blky, occ  
shrp/bldd frag, v frm, micritic, no ini fluor, fst brt  
mlky blsh grn cuts, gd even blu-grn res rng, sl gsy  
odor, MRLSTN (50%), AA

**NIOBRARA B CHALK**  
7,395' MD; 7,176' TVD (-2,286')

CARB CHLK (75%): med lt-med gry, abndt drkr gry  
thru, occ mtd w ltr mic spts, pred chiky, sbrthy ip,  
sbbiky-sl shrp, frm-stff, brttl ip, cly/carb fil mtz, no vis  
ini fluor, gd/fst mlky brt yel cut, strng yel res rng, gsy  
odor; MARL (25%): drk gry, plty

MRLSTN: med-med drk gry, occ drkr gryblks thru,  
pred chiky, sbrthy/sbwxy ip, sbbiky-sl shrp, frm, v calc,  
dry cly fill mtz, no vis por, no vis ini fluor, gd/fst cldy  
yel cuts, gd brt yel res rng, strng gsy odor

MRLSTN (80%): gry-gryblk, v n  
pred blk, shrp anglr ctngs thr  
no pri fluor, fr-strng mlky yel c  
res cid, sl gsy odor, CHLK (20%)



v - 4783 u

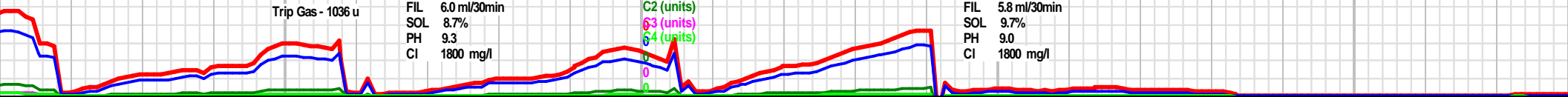
Trip Gas - 1036 u

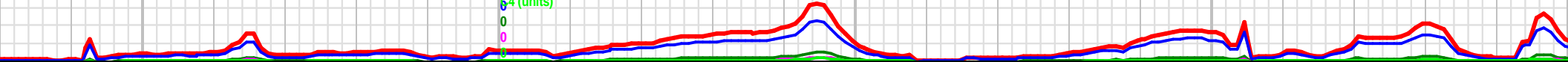
Mud @ 7361'  
MW 10.0 ppg  
VIS 39 sec/qt  
PV/YP 13/12 cp / lbs/100ft^2  
Gels 3/5/9 lbs/100ft^2  
FIL 6.0 ml/30min  
SOL 8.7%  
PH 9.3  
CI 1800 mg/l

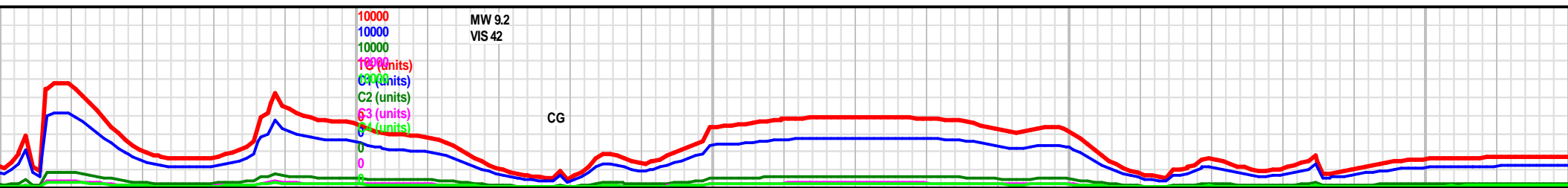
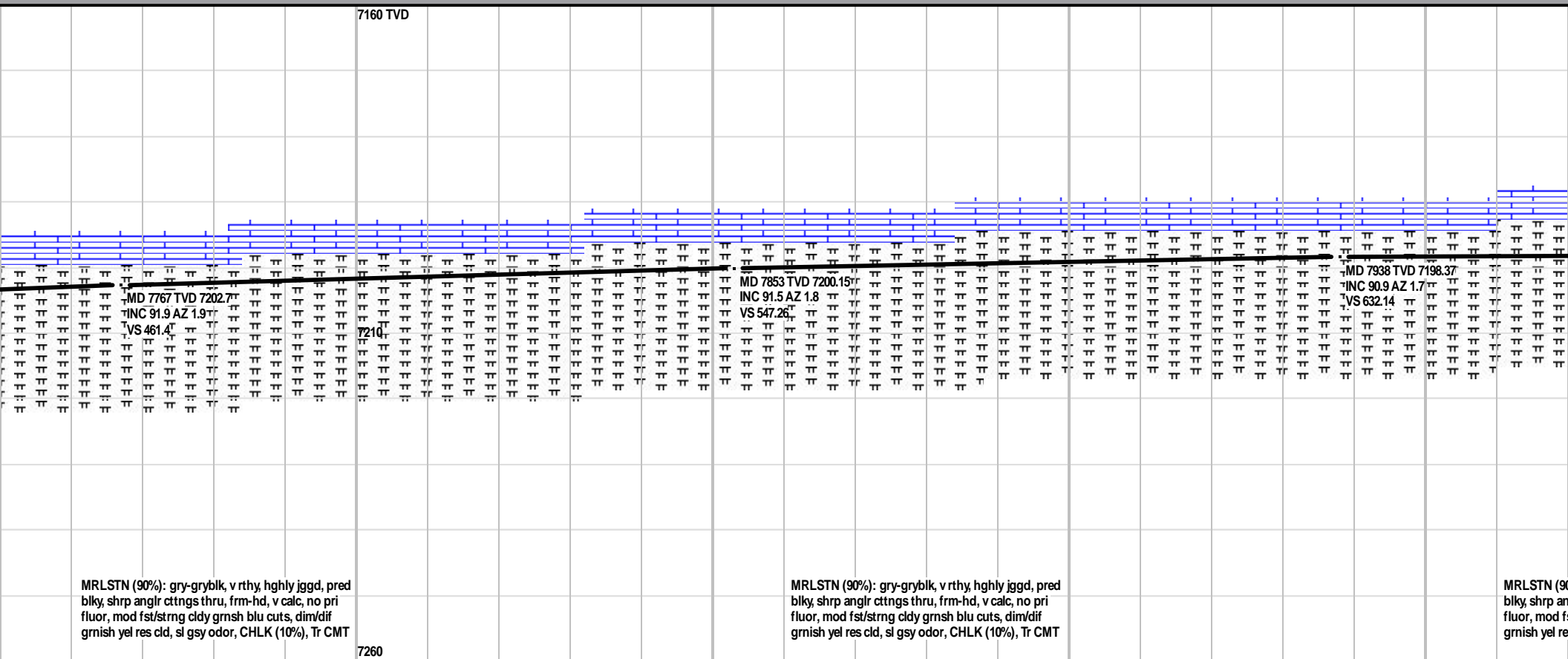
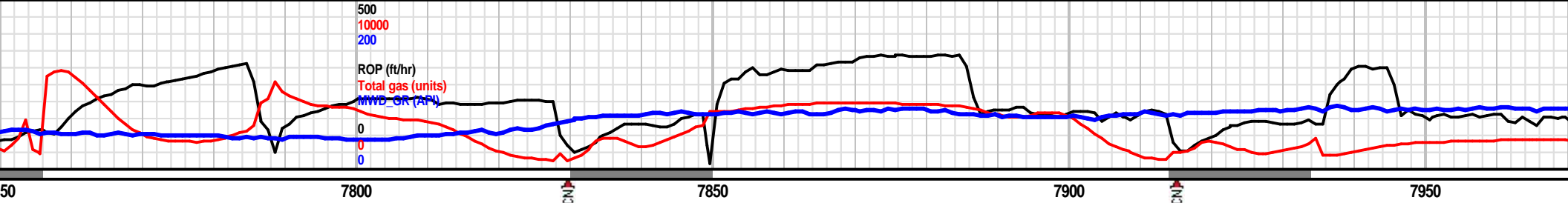
10000  
10000  
10000  
10000 (units)  
10000 (units)  
C2 (units)  
63 (units)  
64 (units)

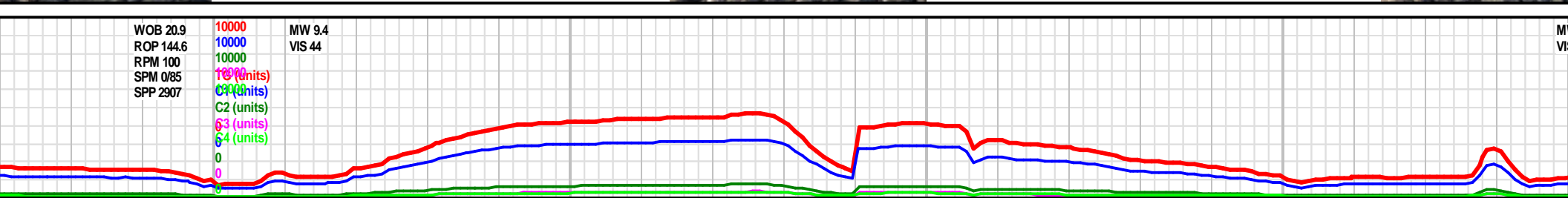
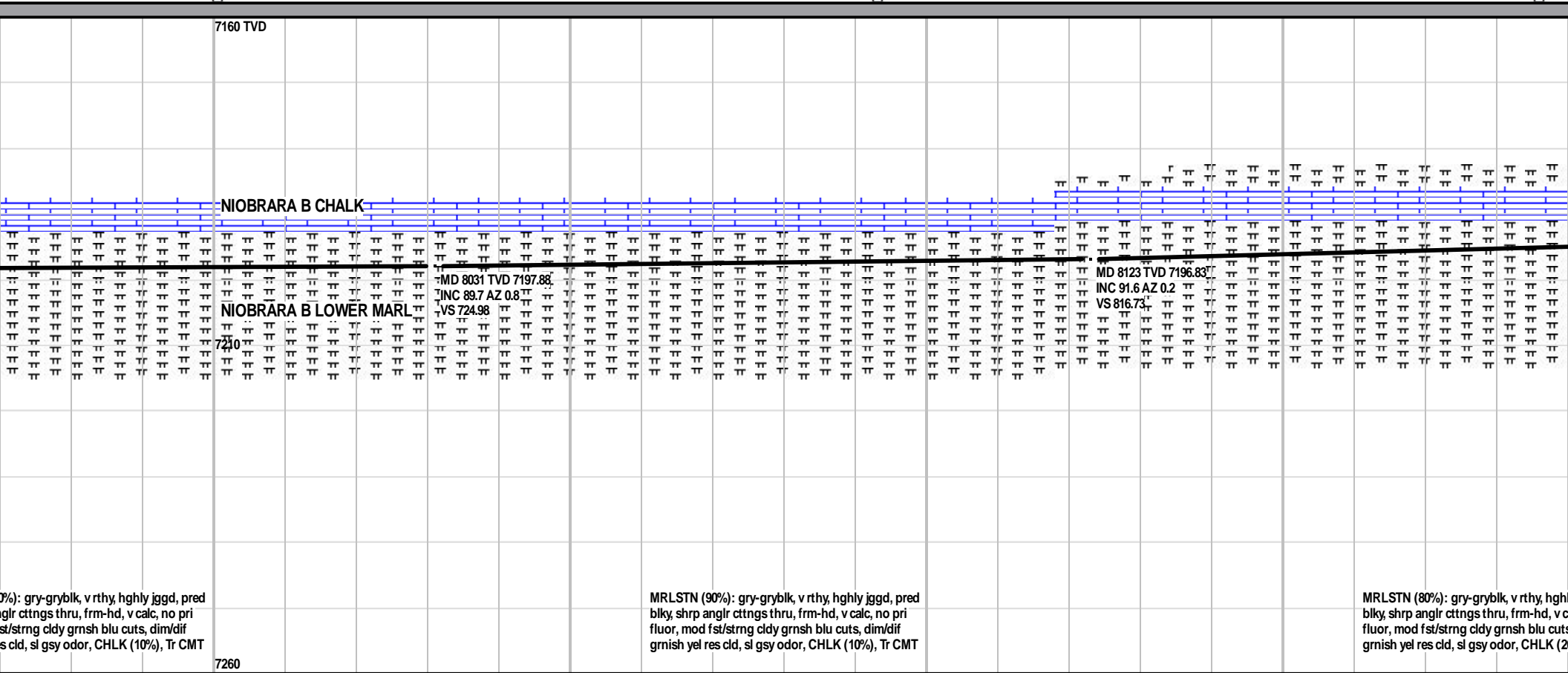
Mud @ 7445'  
MW 10.3 ppg  
VIS 41 sec/qt  
PV/YP 14/13 cp / lbs/100ft^2  
Gels 4/7/12 lbs/100ft^2  
FIL 5.8 ml/30min  
SOL 9.7%  
PH 9.0  
CI 1800 mg/l

WOB 43.1  
ROP 24.2  
RPM 0  
SPM 78/78  
SPP 3182

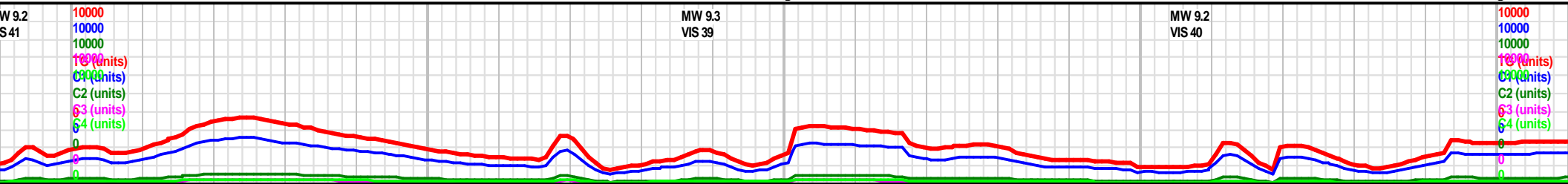
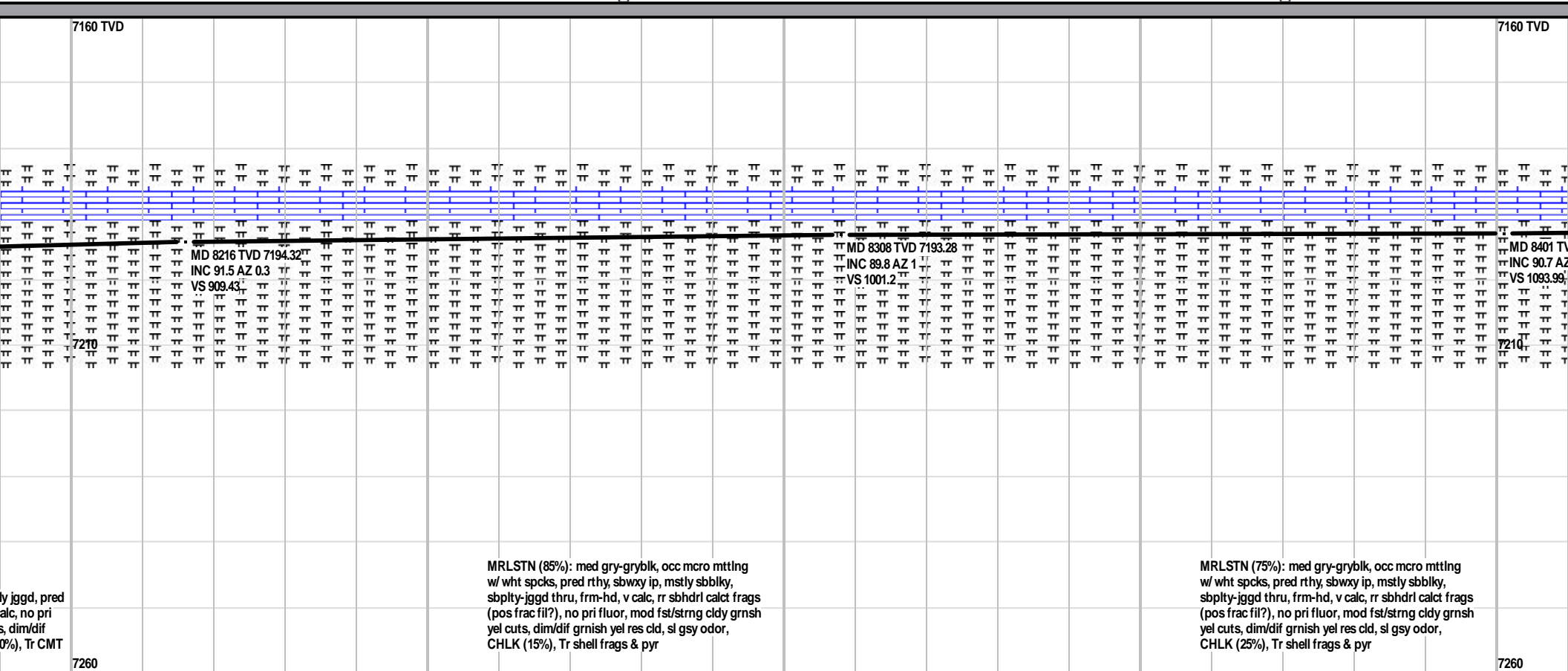








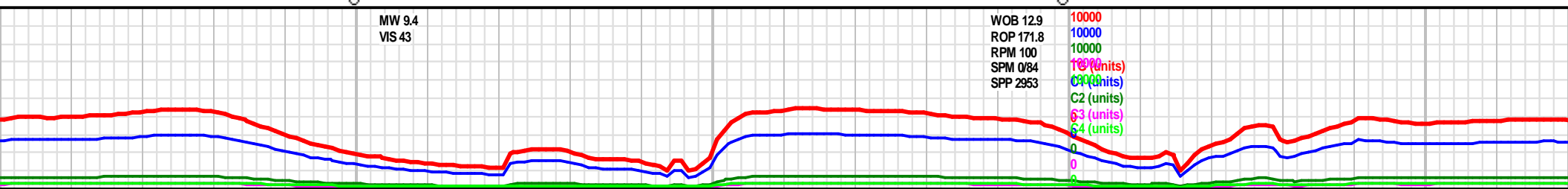
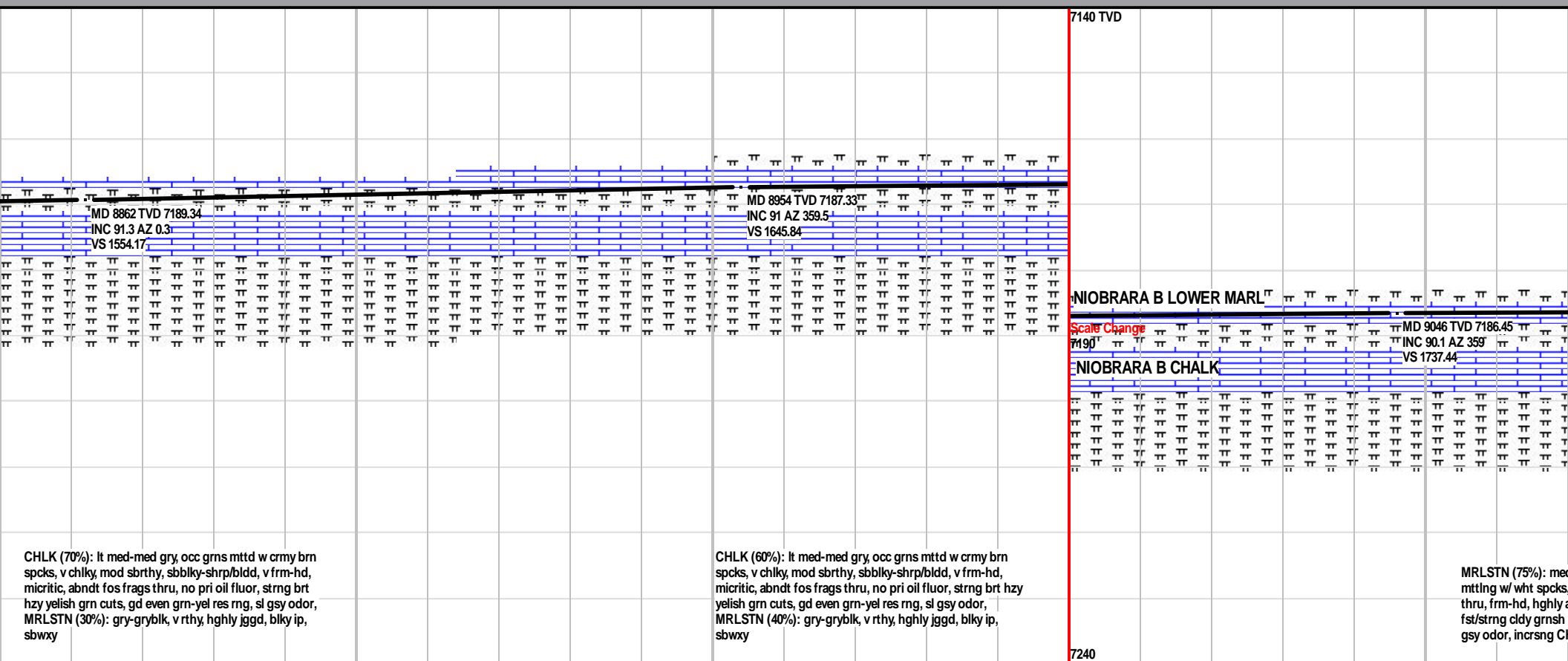
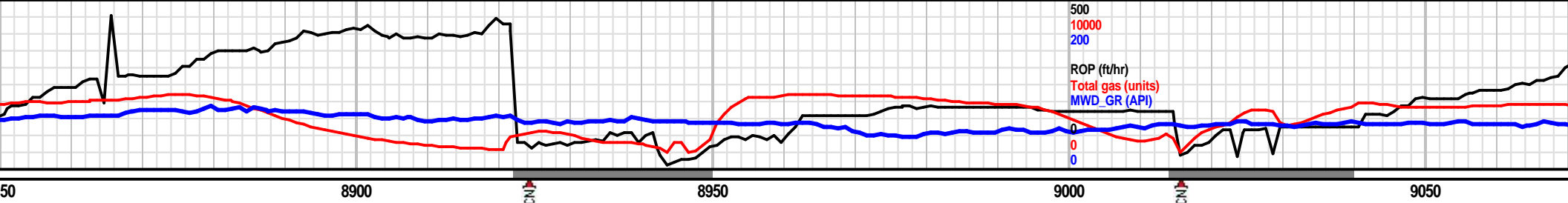


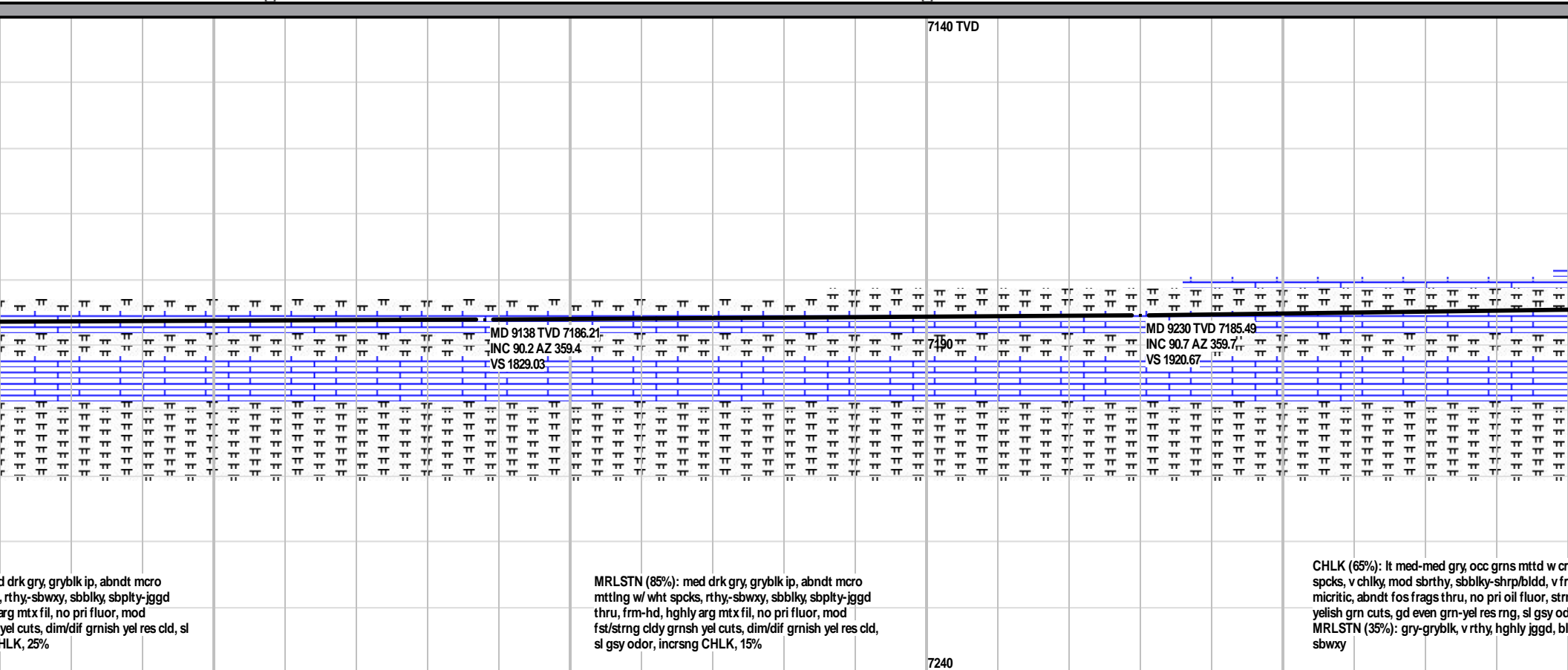






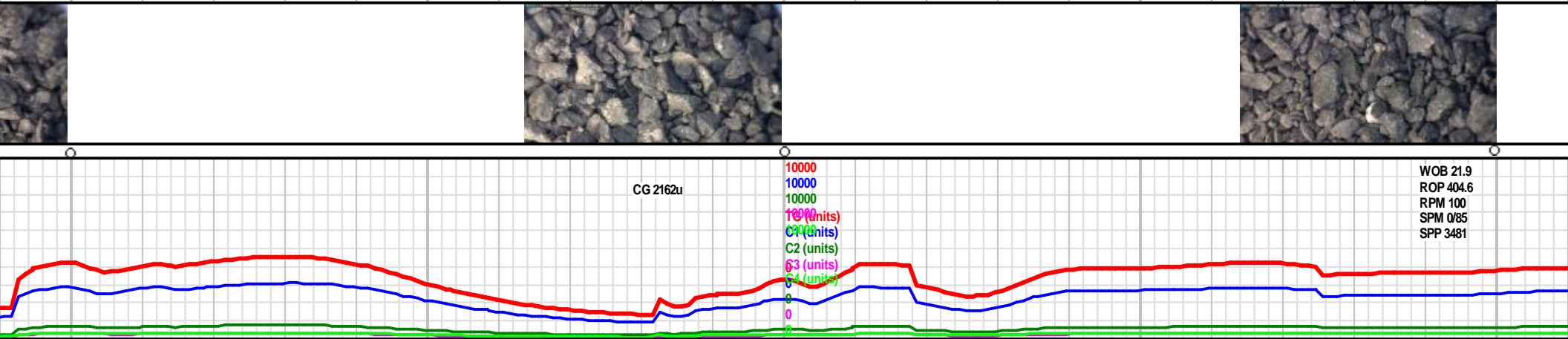
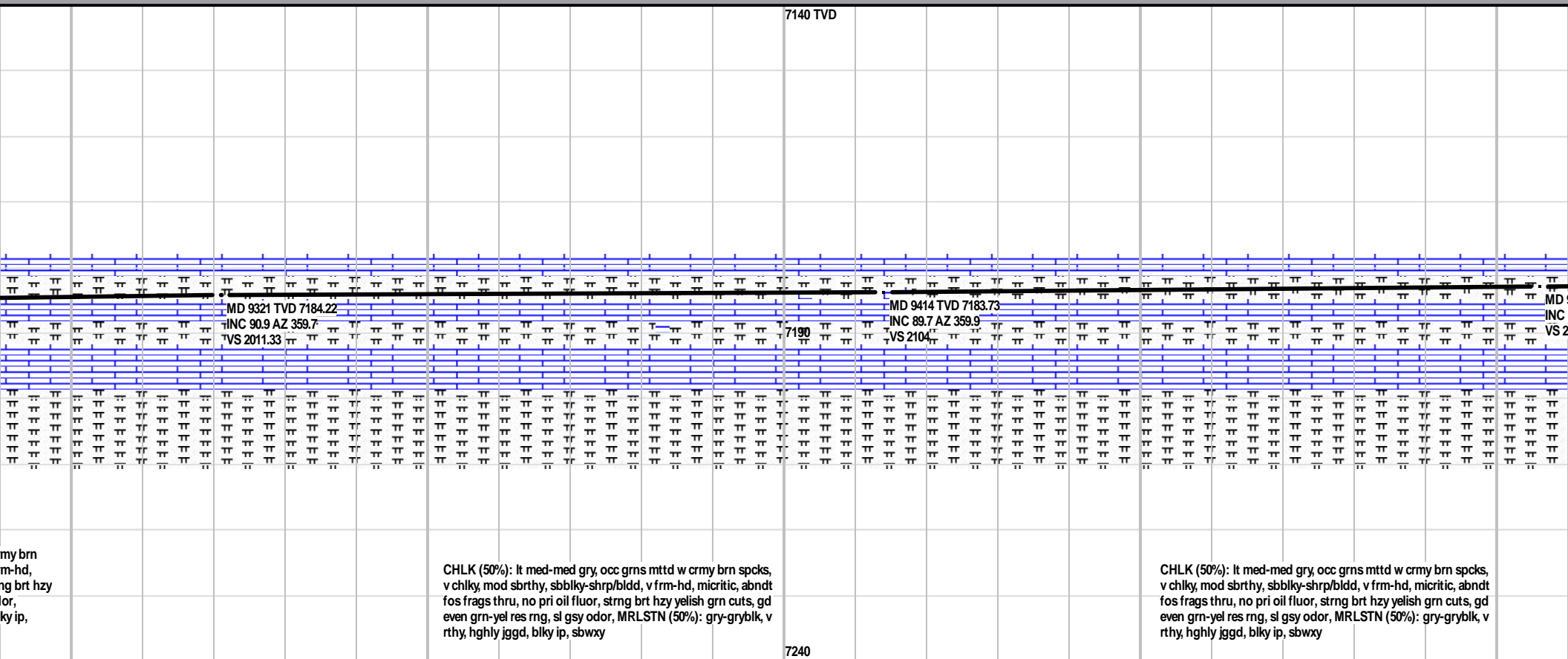


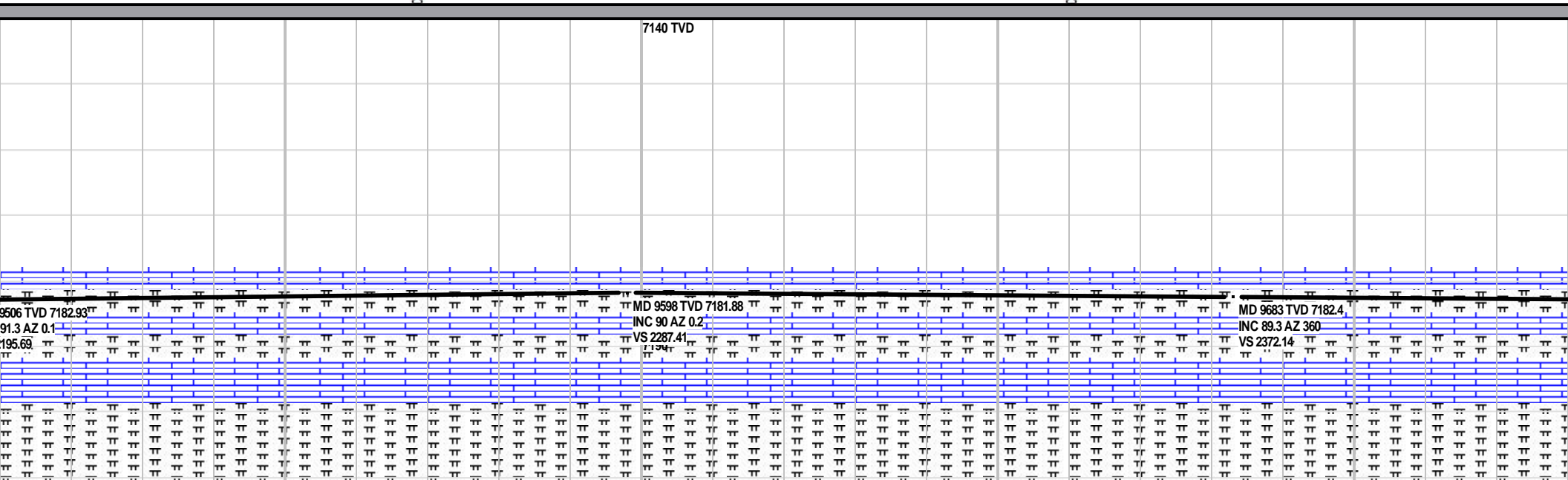




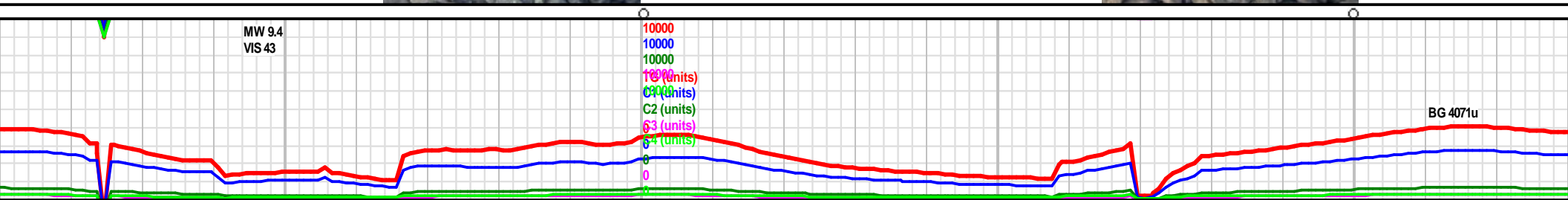
Mud @ 9205'

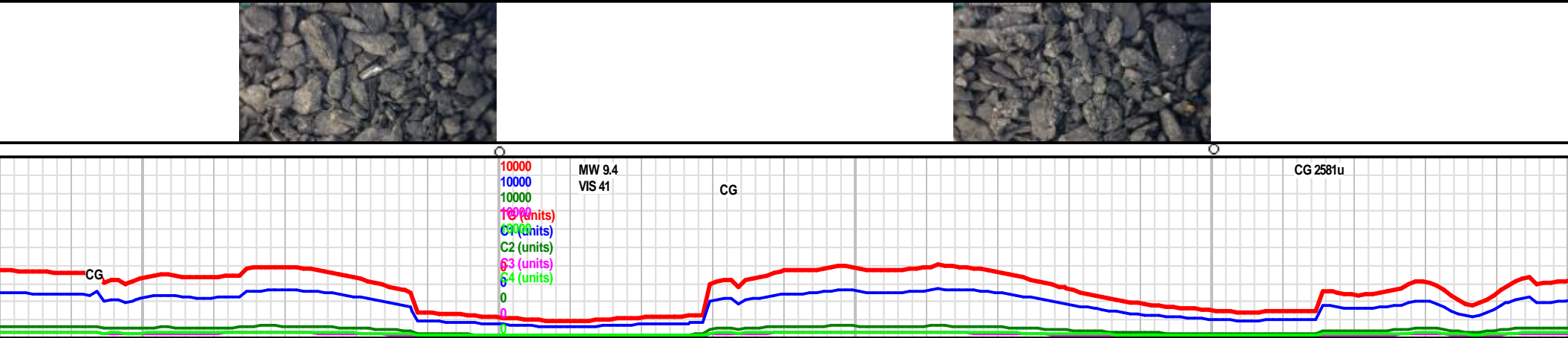
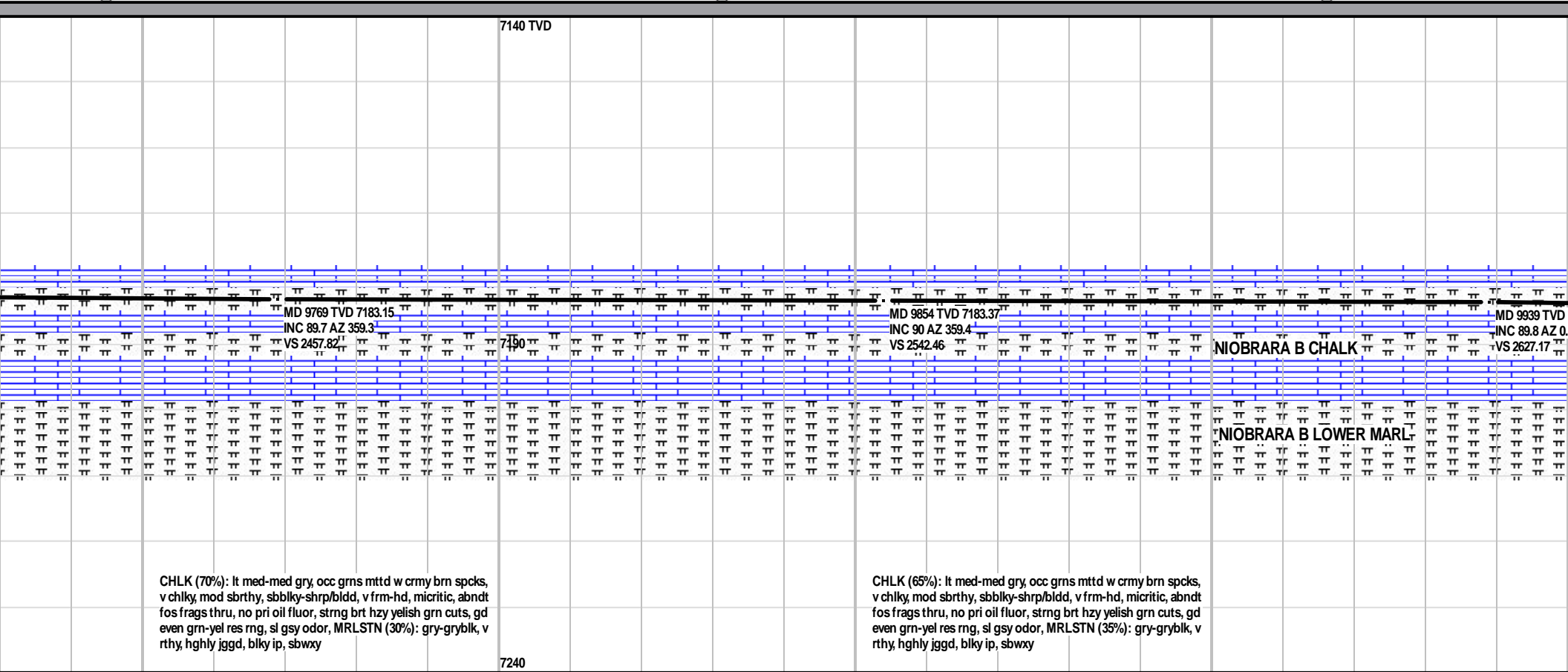
MW	9.4 ppg
VIS	44 sec/qt
PV/YP	11/12 cp / lbs/100ft <sup>2</sup>
Gels	5/12/21 lbs/100ft <sup>2</sup>
FIL	6.8 ml/30min
SOL	6.7%
PH	8.9
Cl	1850 mg/l

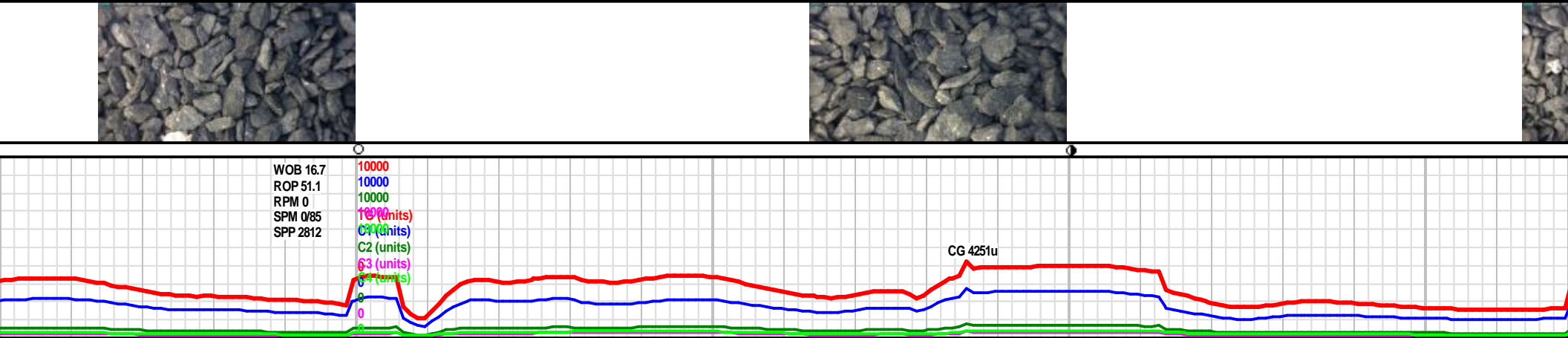
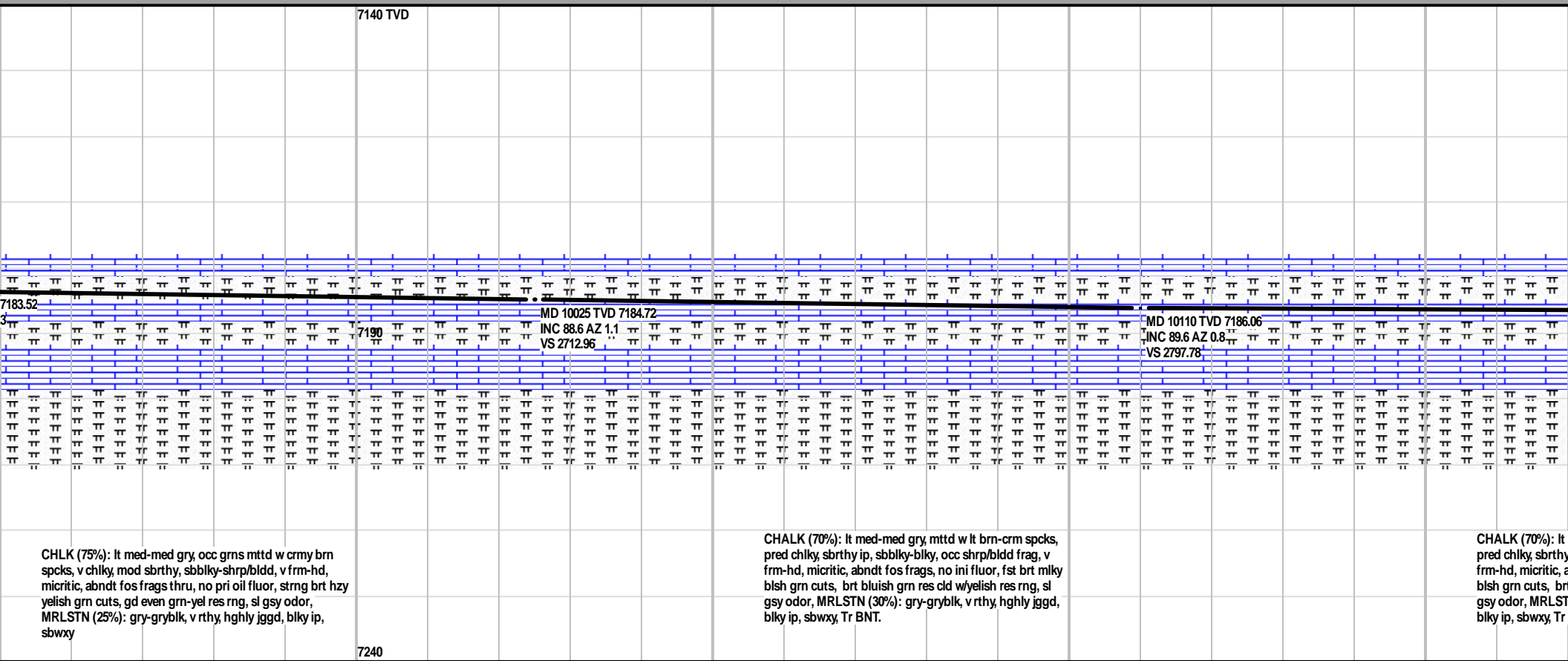
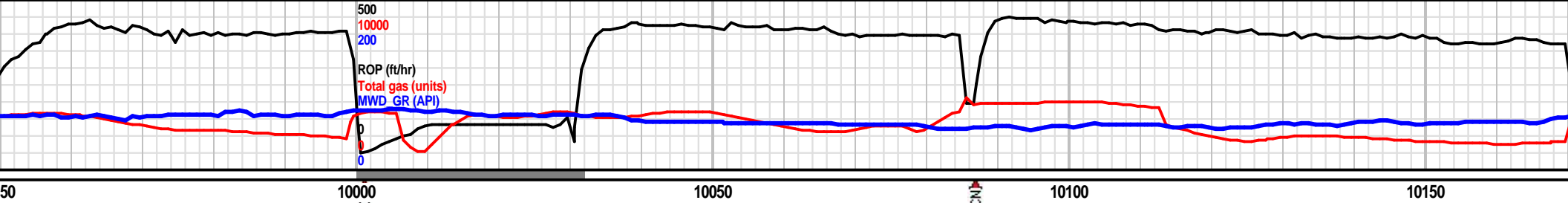




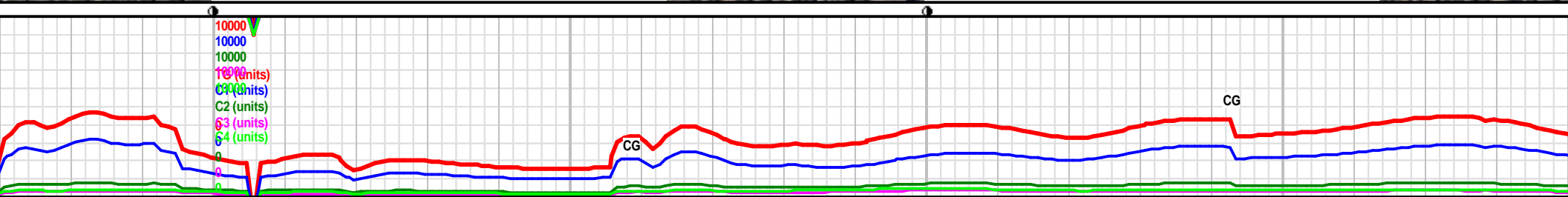
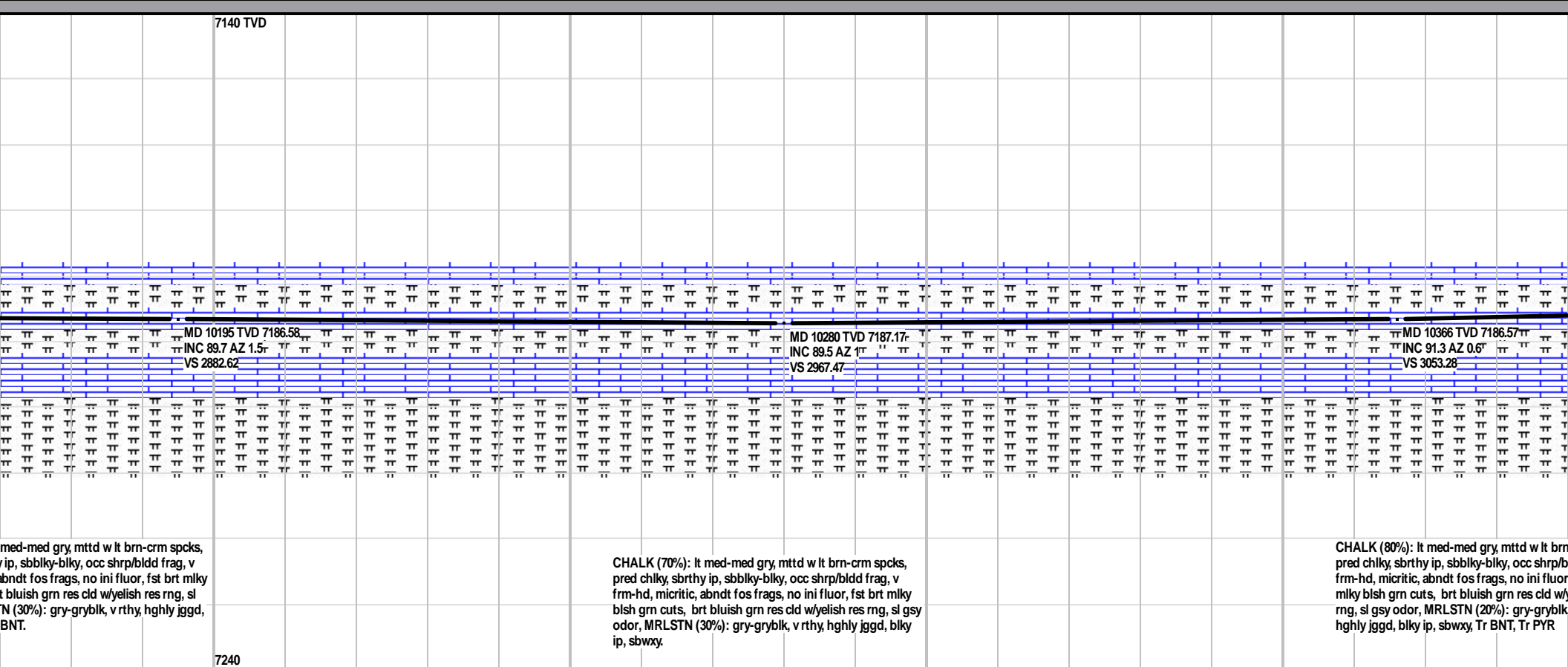
CHLK (70%): lt med-med gry, occ grns mtt'd w crmy brn spcks, v chlkly, mod sbtrthy, sbblky-shrp/bldd, v frm-hd, micritic, abndt fos frags thru, no pri oil fluor, strng brt hzy yelish grn cuts, gd even grn-yel res rng, sl gsy odor, MRLSTXN (30%): gry-gryblk, v rthy, hghly jggd, blkly ip, sbwxy

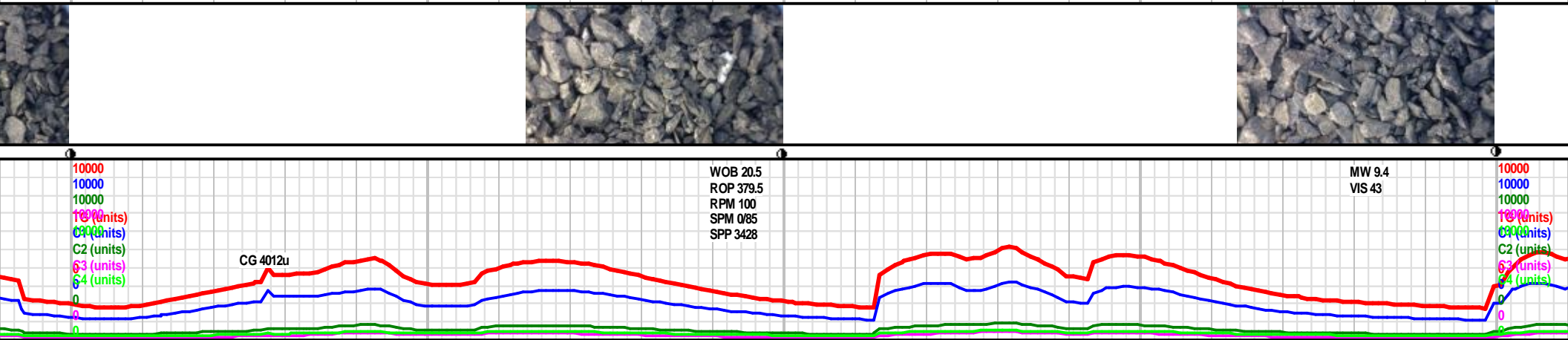
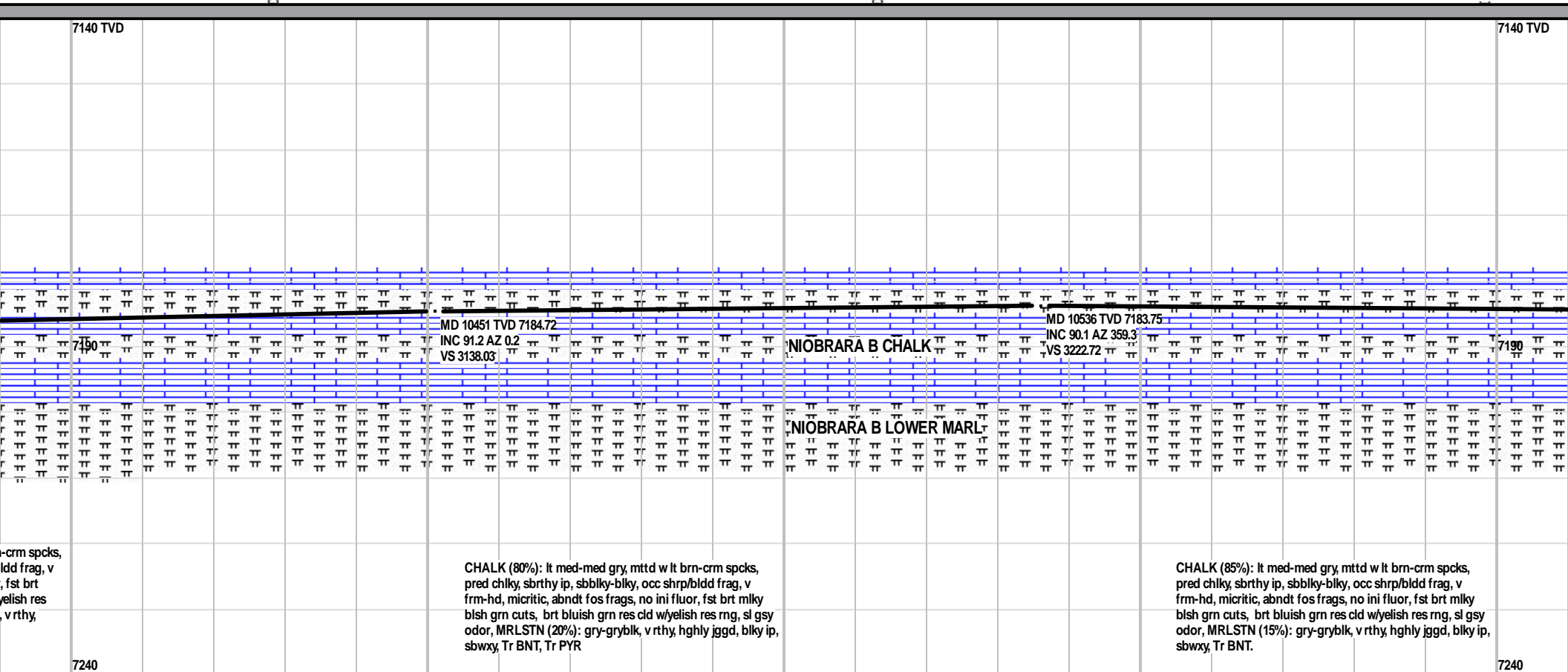




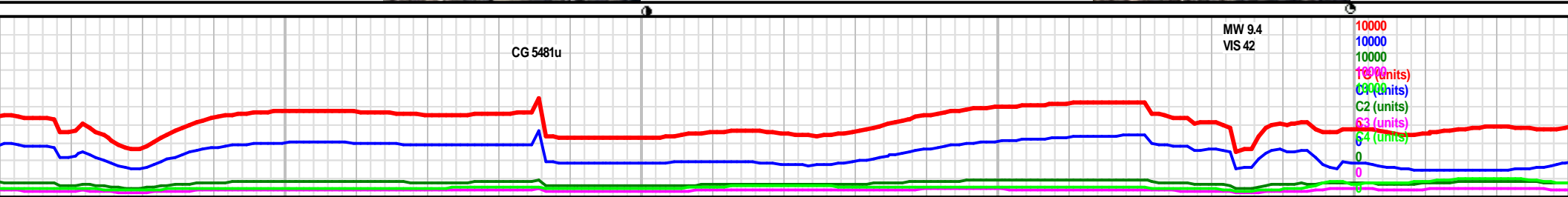
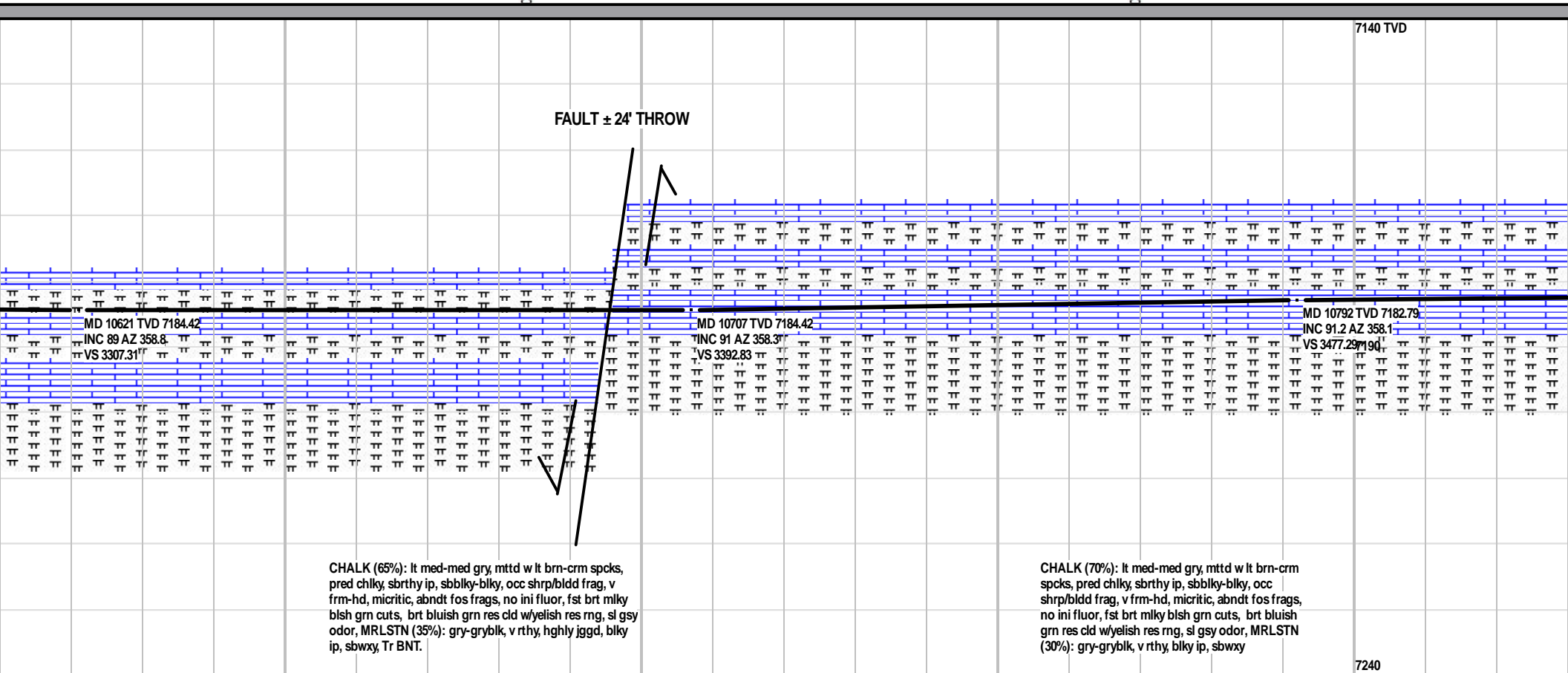


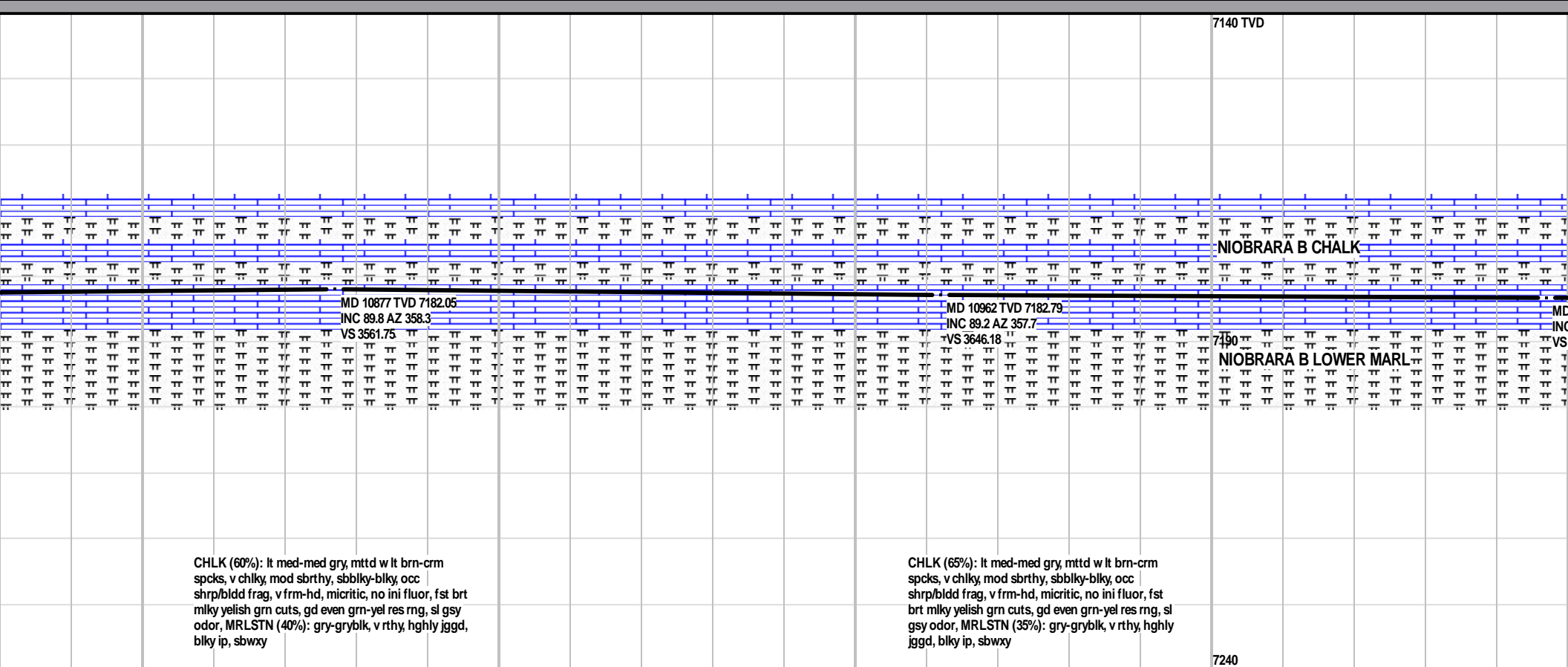
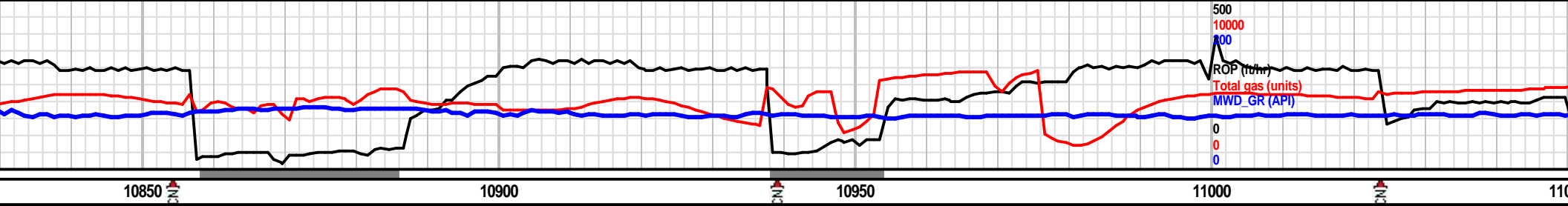






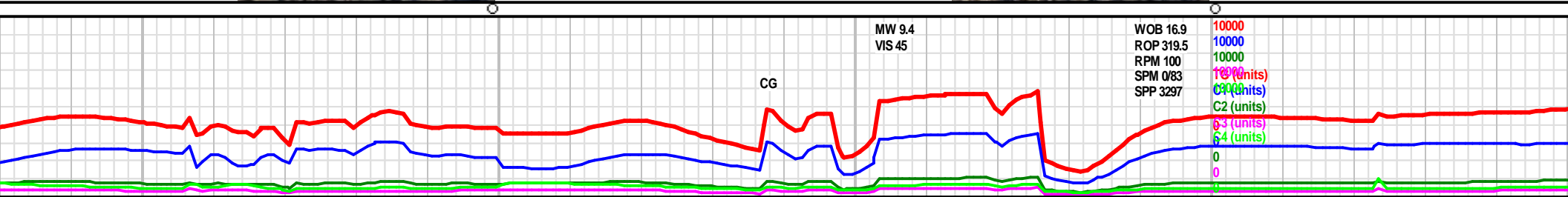


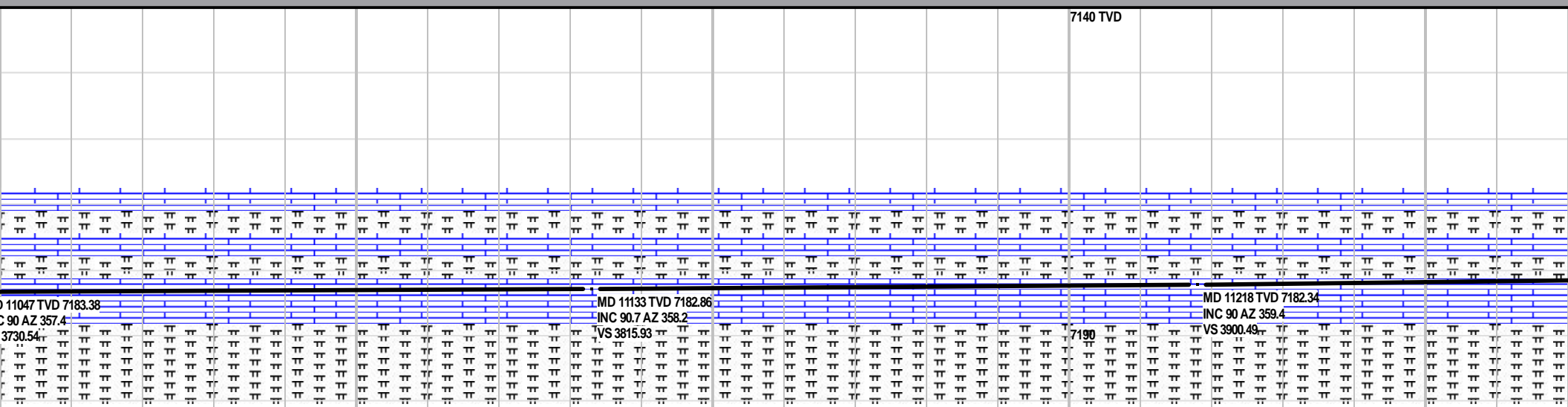
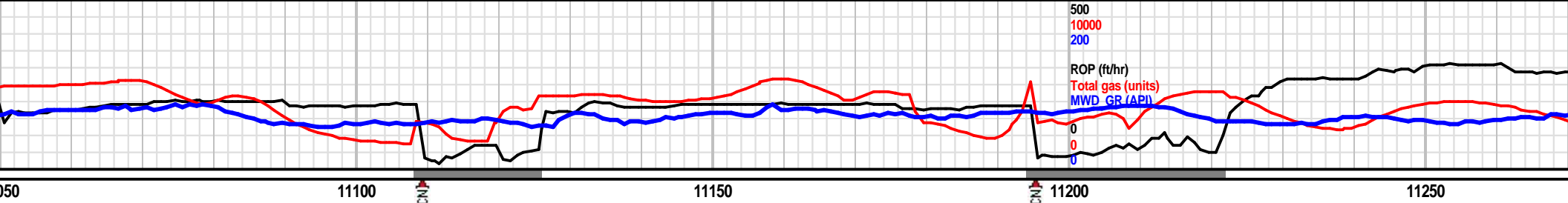




CHLK (60%): lt med-med gry, mtted w lt brn-crm spcks, v chiky, mod sbtrthy, sbbiky-blky, occ shrp/bldd frag, v frm-hd, micritic, no ini fluor, fst brt mlky yelish grn cuts, gd even grn-yel res rng, sl gsy odor, MRLSTN (40%): gry-gryblk, v rthy, ghgly jggd, blkly ip, sbwxy

CHLK (65%): lt med-med gry, mtted w lt brn-crm spcks, v chiky, mod sbtrthy, sbbiky-blky, occ shrp/bldd frag, v frm-hd, micritic, no ini fluor, fst brt mlky yelish grn cuts, gd even grn-yel res rng, sl gsy odor, MRLSTN (35%): gry-gryblk, v rthy, ghgly jggd, blkly ip, sbwxy

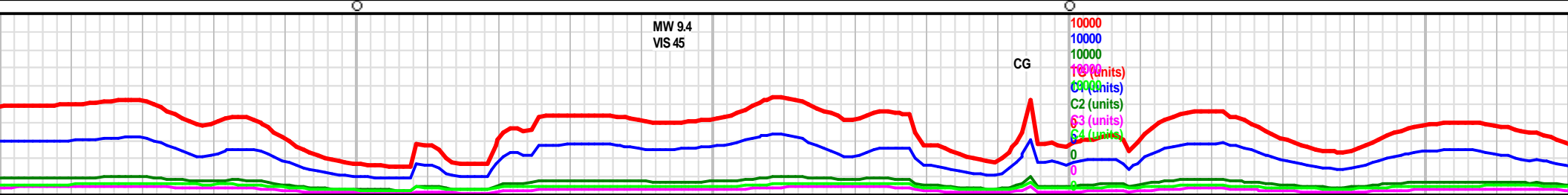


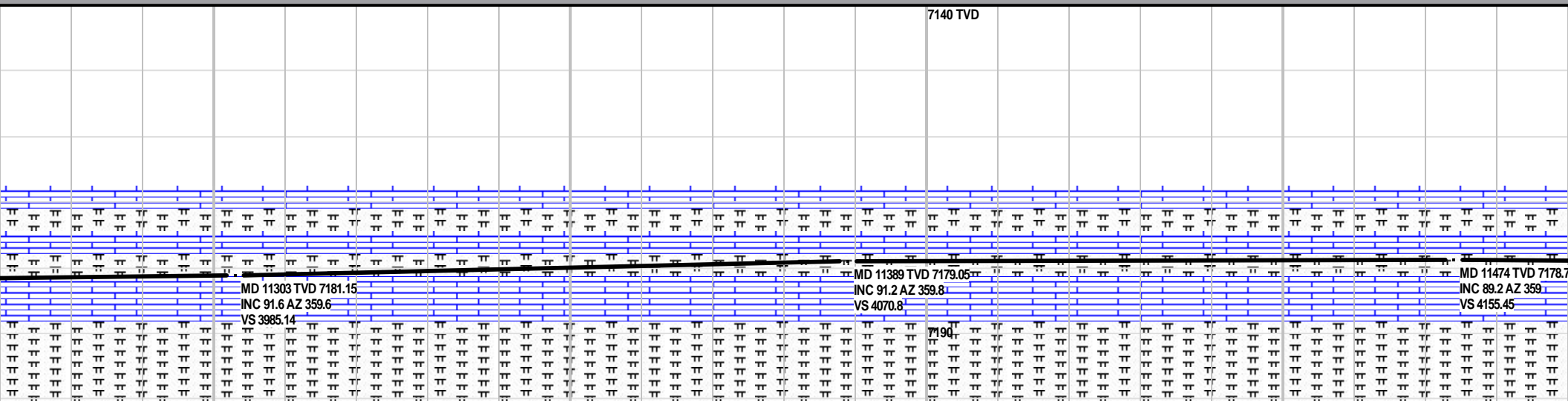
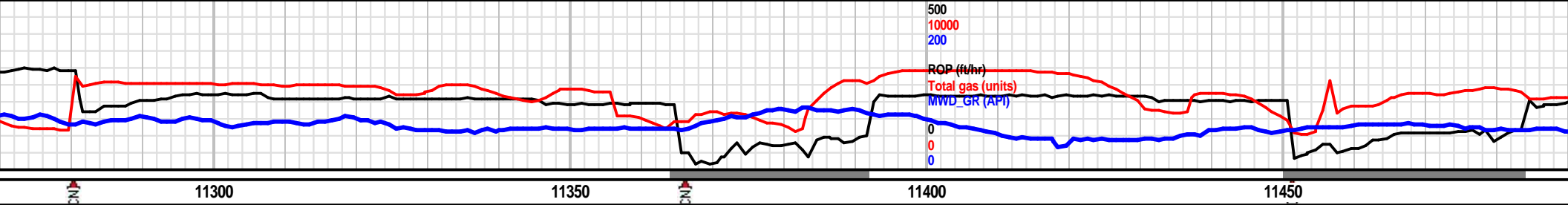


CHLK (85%): lt med-med gry, mttdd w lt brn-crm spcks, v chlky, mod sbrthy, sbbly-bly, occ shrp/blidd frag, v frm-hd, micritic, no ini fluor, fst brt mlky yelish grn cuts, gd even grn-yel res rng, sl gsy odor, MRLSTN (15%): gry-gryblk, v rthy, hghly jggd, blyky ip, sbwxy

CHLK (85%): lt med-med gry, mttdd w lt brn-crm spcks, v chlky, mod sbrthy, sbbly-bly, occ shrp/blidd frag, v frm-hd, micritic, no ini fluor, fst brt mlky yelish grn cuts, gd even grn-yel res rng, sl gsy odor, MRLSTN (15%): gry-gryblk, v rthy, hghly jggd, blyky ip, sbwxy

CHLK (70%): spcks, v chlky, shrp/blidd frag, mlky yelish grn cuts, gd even grn-yel res rng, sl gsy odor, MRLSTN (15%): gry-gryblk, v rthy, hghly jggd, blyky ip, sbwxy

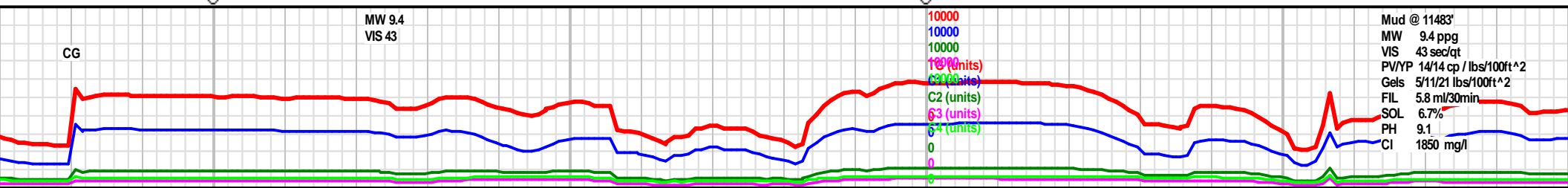




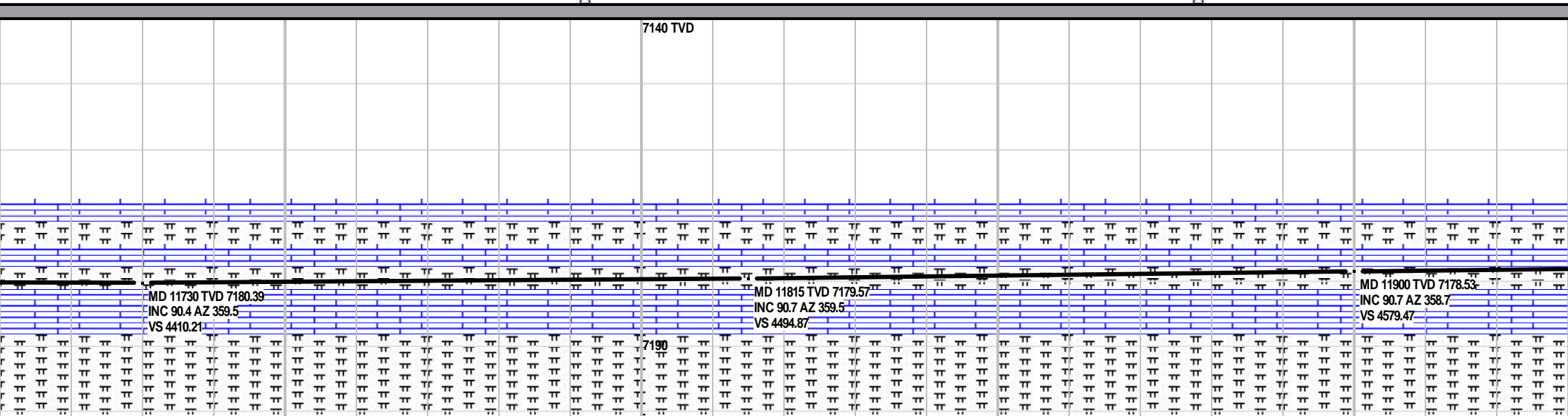
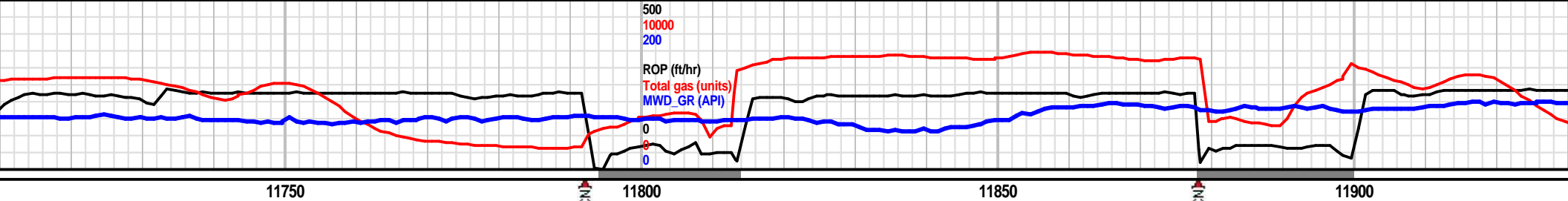
lt med-med gry, mttdd w lt brn-crm  
mod sbrthy, sbbly-blky, occ  
, v frm-hd, micritic, no ini fluor, fst brt  
n cuts, gd even grn-yel res rng, sl gsy  
N (30%): gry-gryblk, v rthy, hgily jggd,

MRLSTN (65%): med drk gry, gryblk ip, abndt mcro  
mttng w/ wht spcks, rthy-sbwxy, sbbly, sbply-jggd  
thru, frm-hd, hgily arg mtz fil, no pri fluor, mod  
fst/stmg cldy grnsh yel cuts, dim/dif grnsh yel res cld,  
sl gsy odor, incrsng CHLK, 35%

CHLK (55%): lt med-med gry, mttdd w lt brn-c  
spcks, v chiky, mod sbrthy, sbbly-blky, occ  
shrp/bldd frag, v frm-hd, micritic, no ini fluor  
mlky yelish grn cuts, gd even grn-yel res rng,  
odor, MRLSTN (45%): gry-gryblk, v rthy, hgily  
bly ip, sbwxy

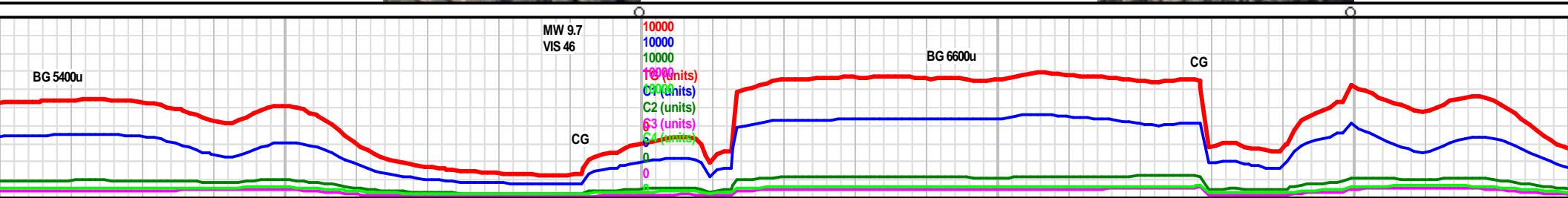




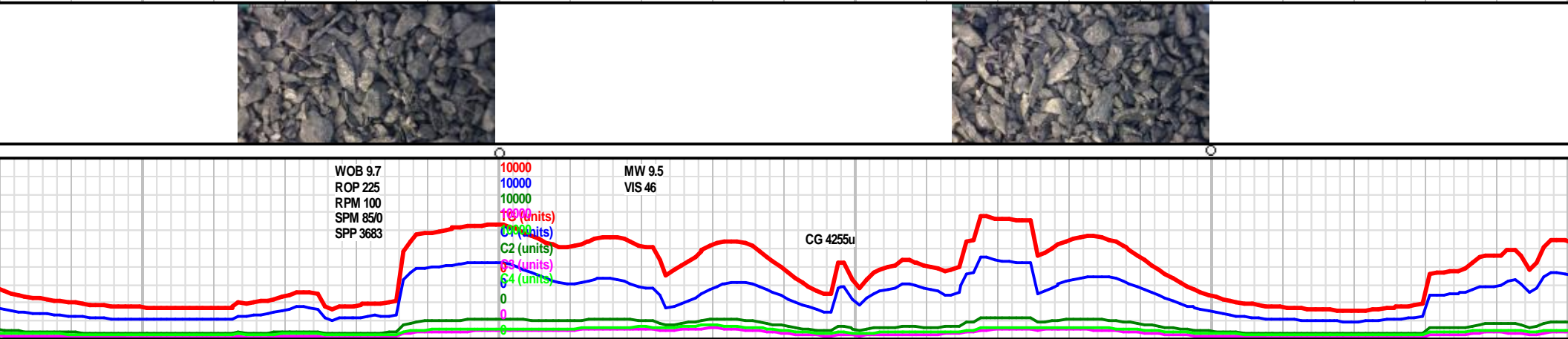
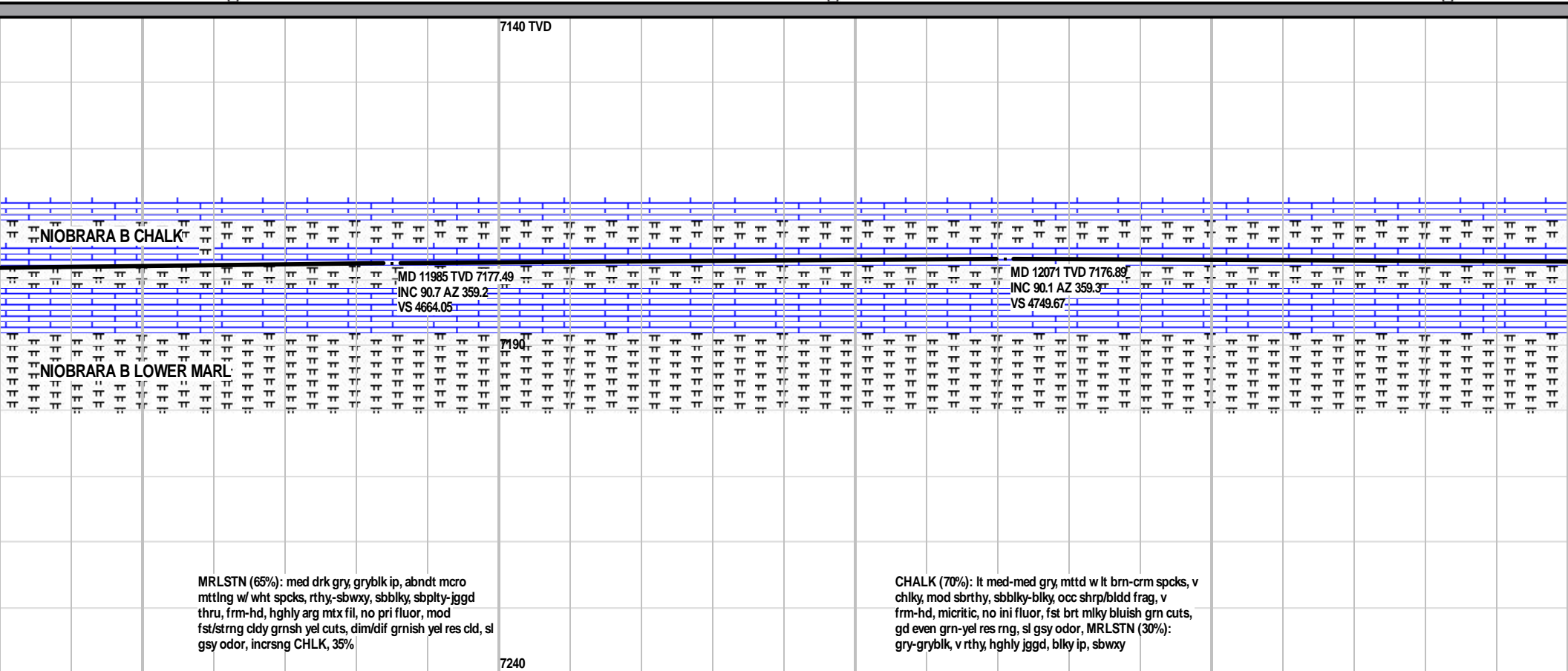


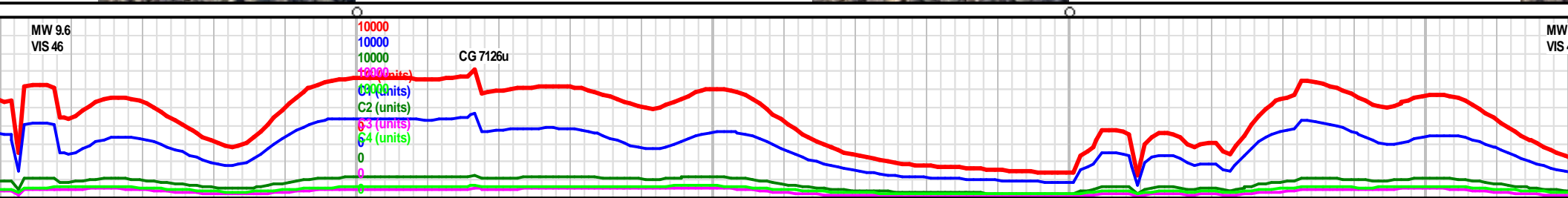
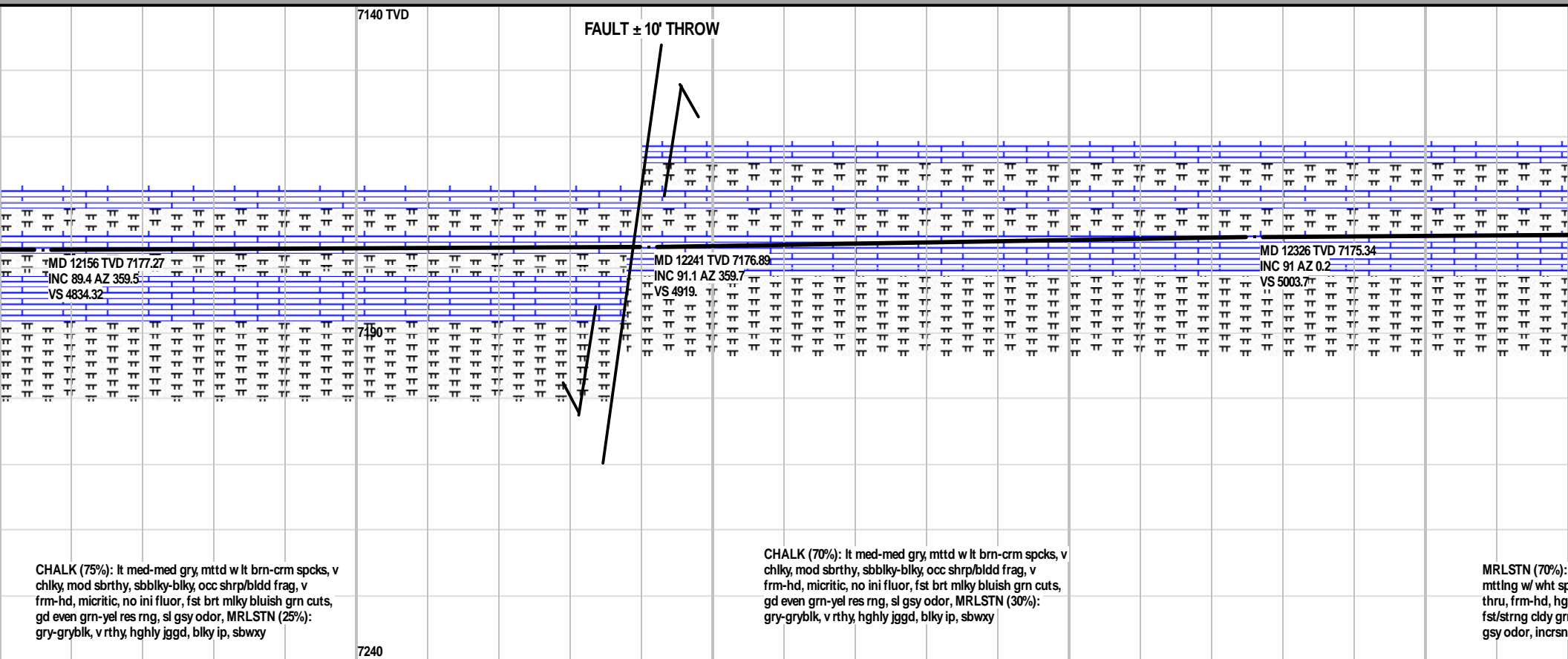
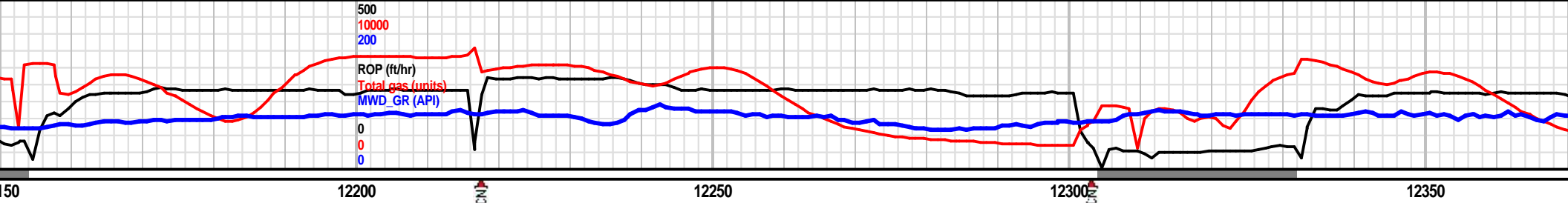
CHLK (65%): lt med-med gry, mtt d w lt brn-crm  
spcks, v chlk, mod sbtrthy, sbblyk-blyk, occ  
shrp/bldd frag, v frm-hd, micritic, no ini fluor, fst brt  
mlyk yelish grn cuts, gd even grn-yel res rng, sl gsy  
odor, MLRSTN (35%): gry-gryblyk, v rthy, hghly jggd,  
blyk ip, sbwxy

CHLK (65%): lt med-med gry, mtt d w lt brn-crm  
spcks, v chiky, mod sb rthy, sbblky-blky, occ  
shrp/bldd frag, v frm-hd, micritic, no ini fluor, fst brt  
mlky yelish grn cuts, gd even grn-yel res rng, sl gsy  
odor, MRLSTN (35%): gry-gryblk, v rthy, hghly jggd,  
blky ip, sbwxy



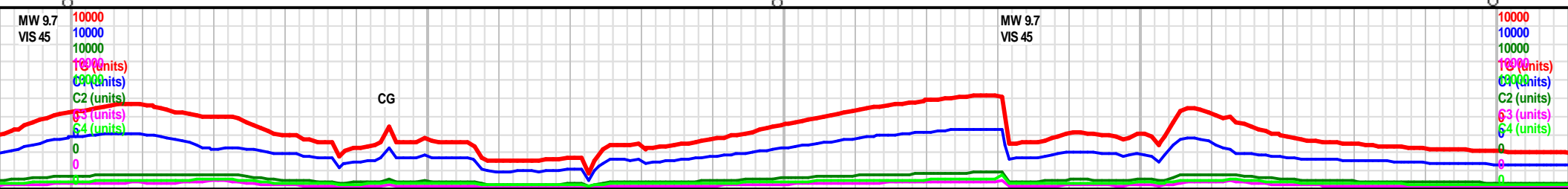
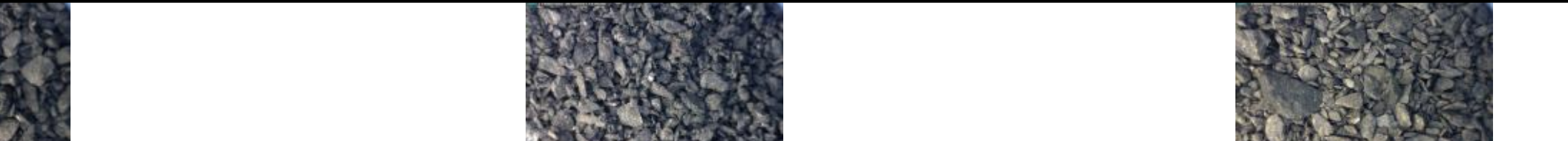
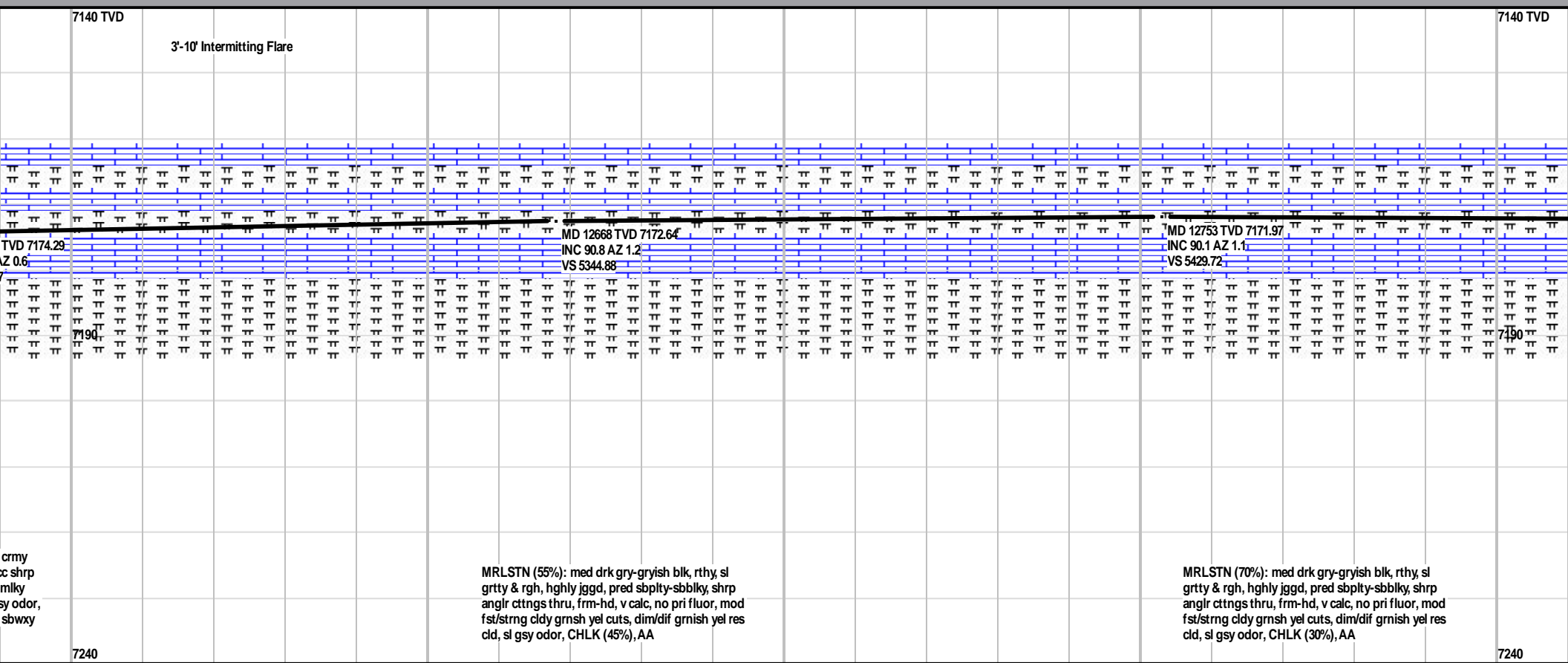
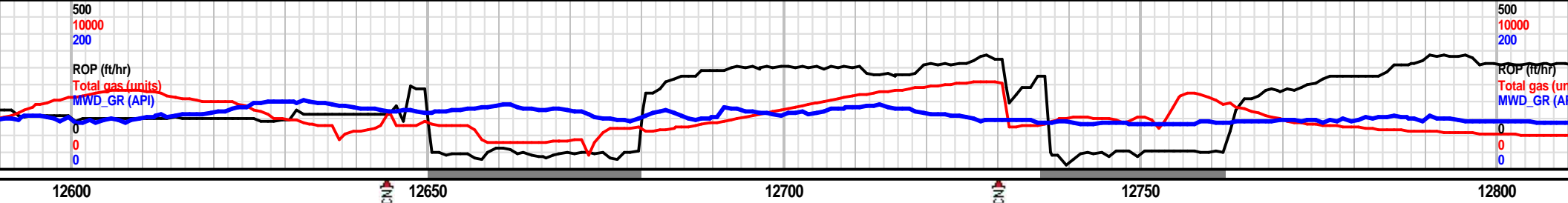




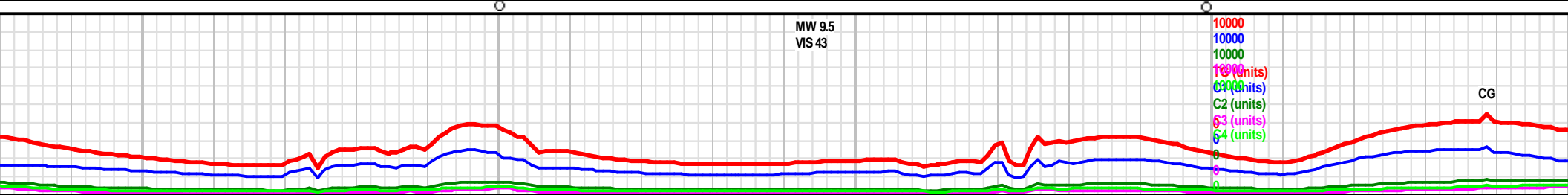
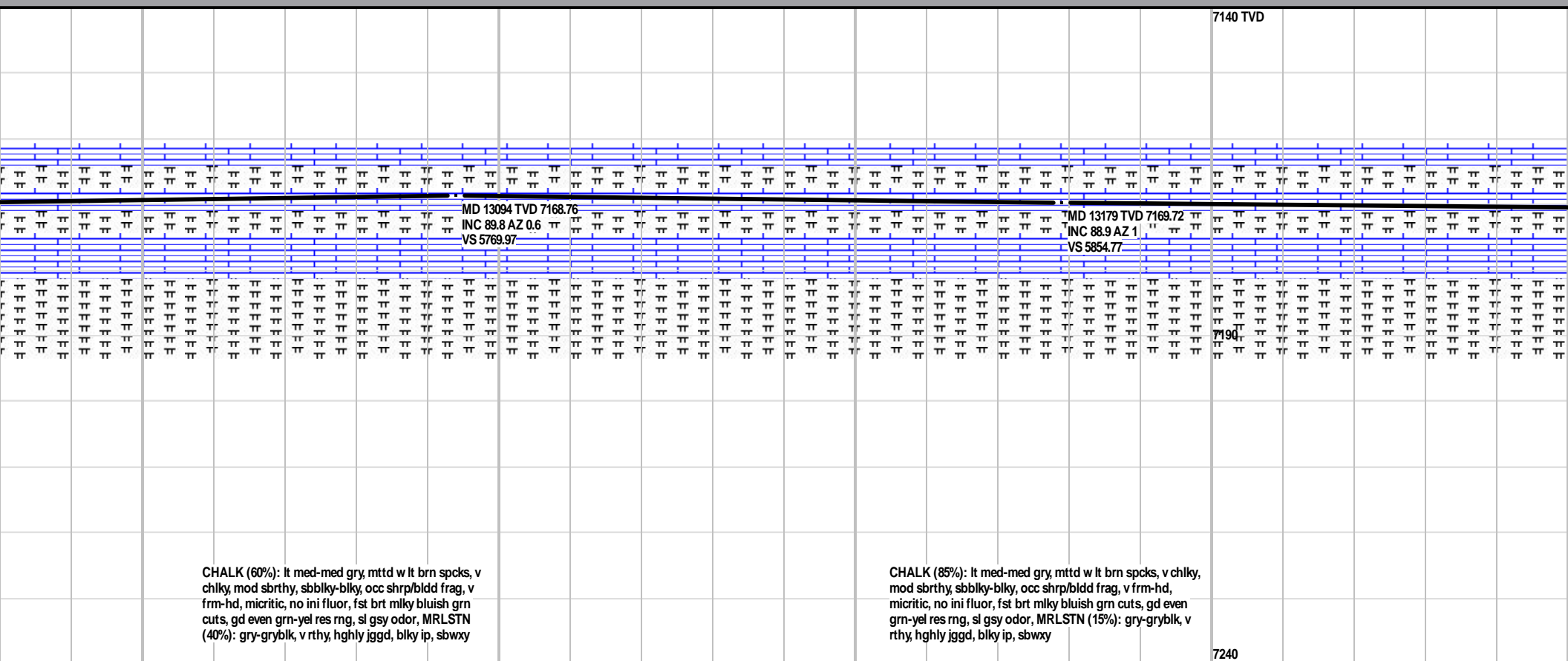
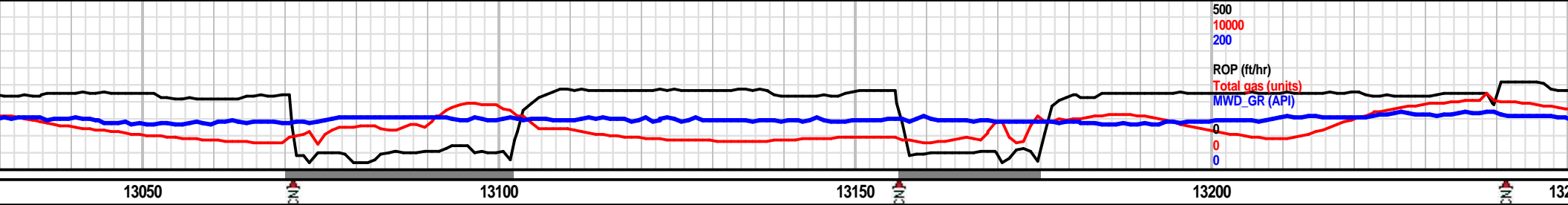


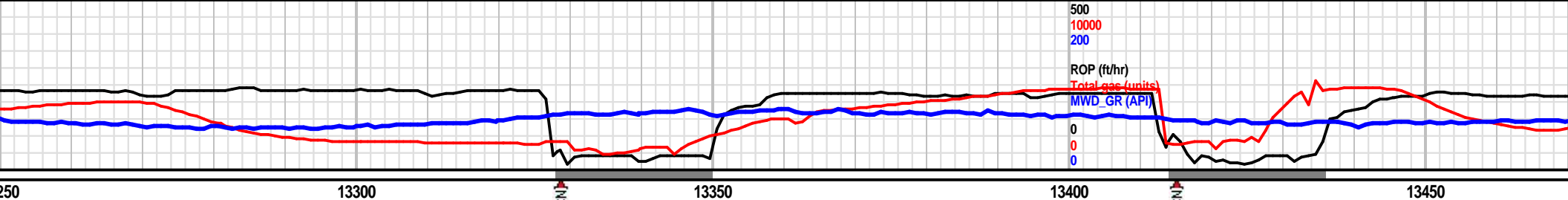










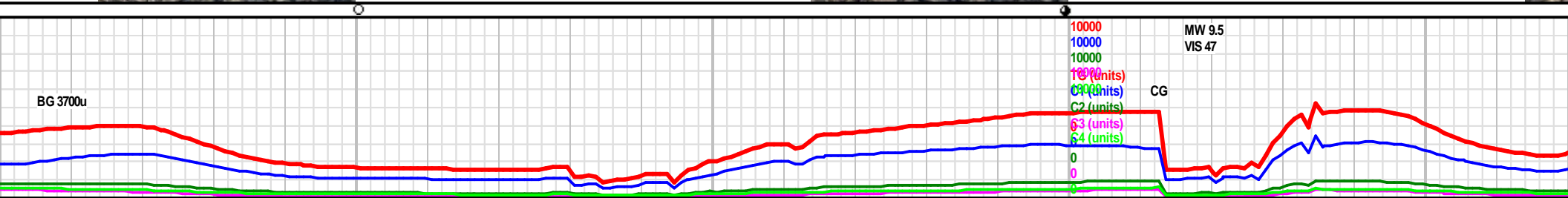


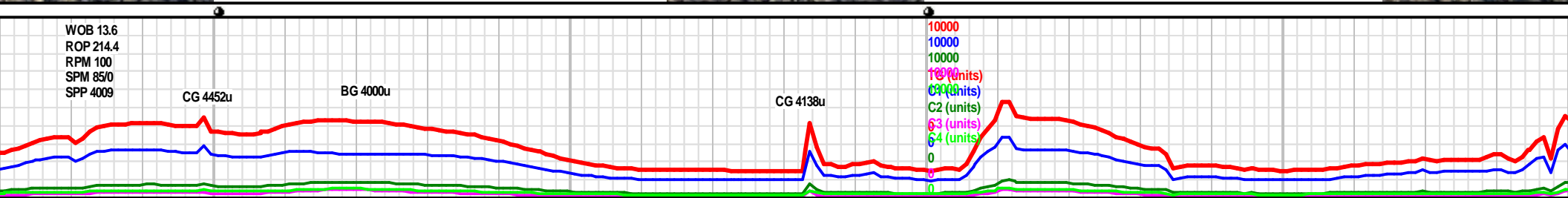
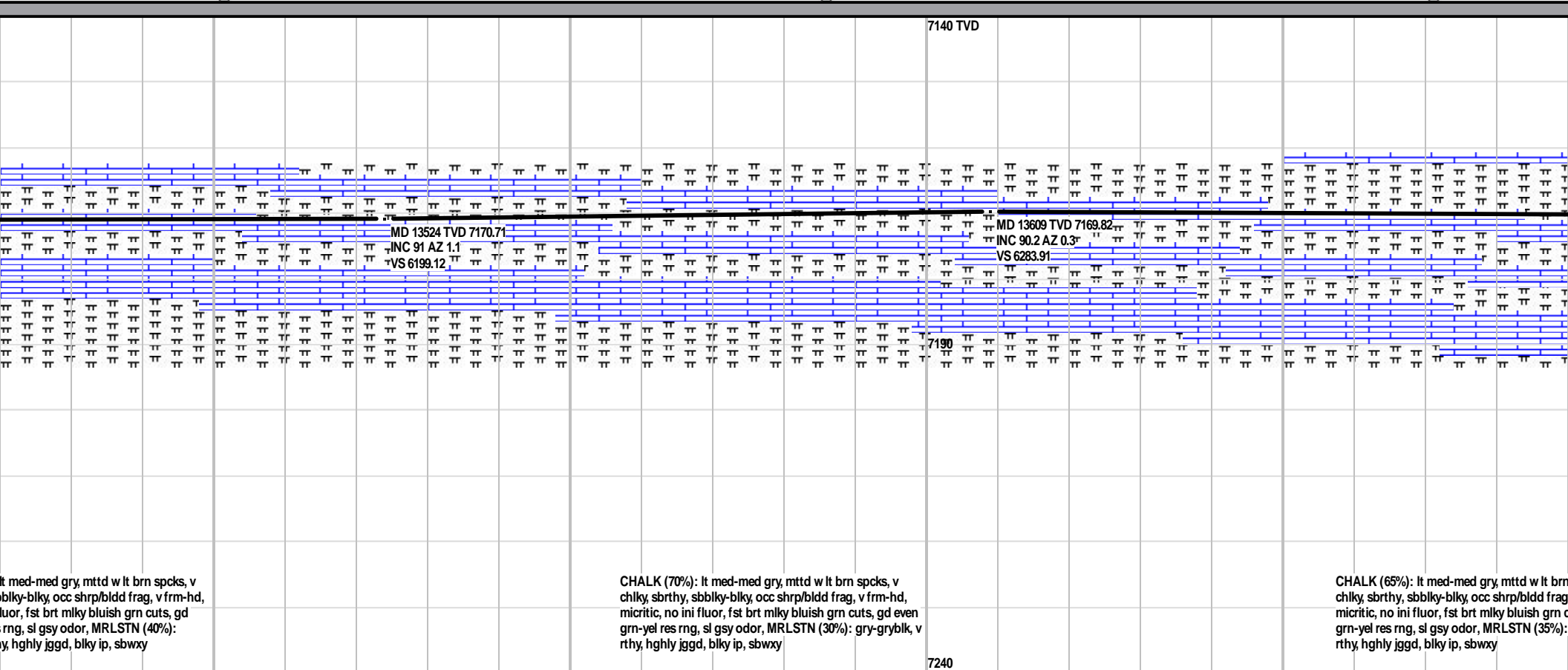
7140 TVD									
MD 13266 TVD 7170.56 INC 90 AZ 0.9 VS 5941.59									
MD 13353 TVD 7170.63 INC 89.9 AZ 1.4 VS 6028.43									
NIOBRARA B CHALK									
MD 13439 TVD 7171.08 INC 89.5 AZ 1.1 VS 6114.28									
NIOBRARA B LOWER MARL									
7190									
7240									

CHALK (80%): lt med-med gry, mttdd w lt brn spcks, v chlk, sbrthy, sbbiky-biky, occ shrp/bidd frag, v frm-hd, micritic, no ini fluor, fst brt mlky bluish grn cuts, gd even grn-yel res rng, sl gsy odor, MRLSTN (20%): gry-gryblk, v rthy, hghly jggd, biky ip, sbwxy

CHALK (60%): lt med-med gry, mttdd w lt brn spcks, v chlk, sbrthy, sbbiky-biky, occ shrp/bidd frag, v frm-hd, micritic, no ini fluor, fst brt mlky bluish grn cuts, gd even grn-yel res rng, sl gsy odor, MRLSTN (40%): gry-gryblk, v rthy, hghly jggd, biky ip, sbwxy

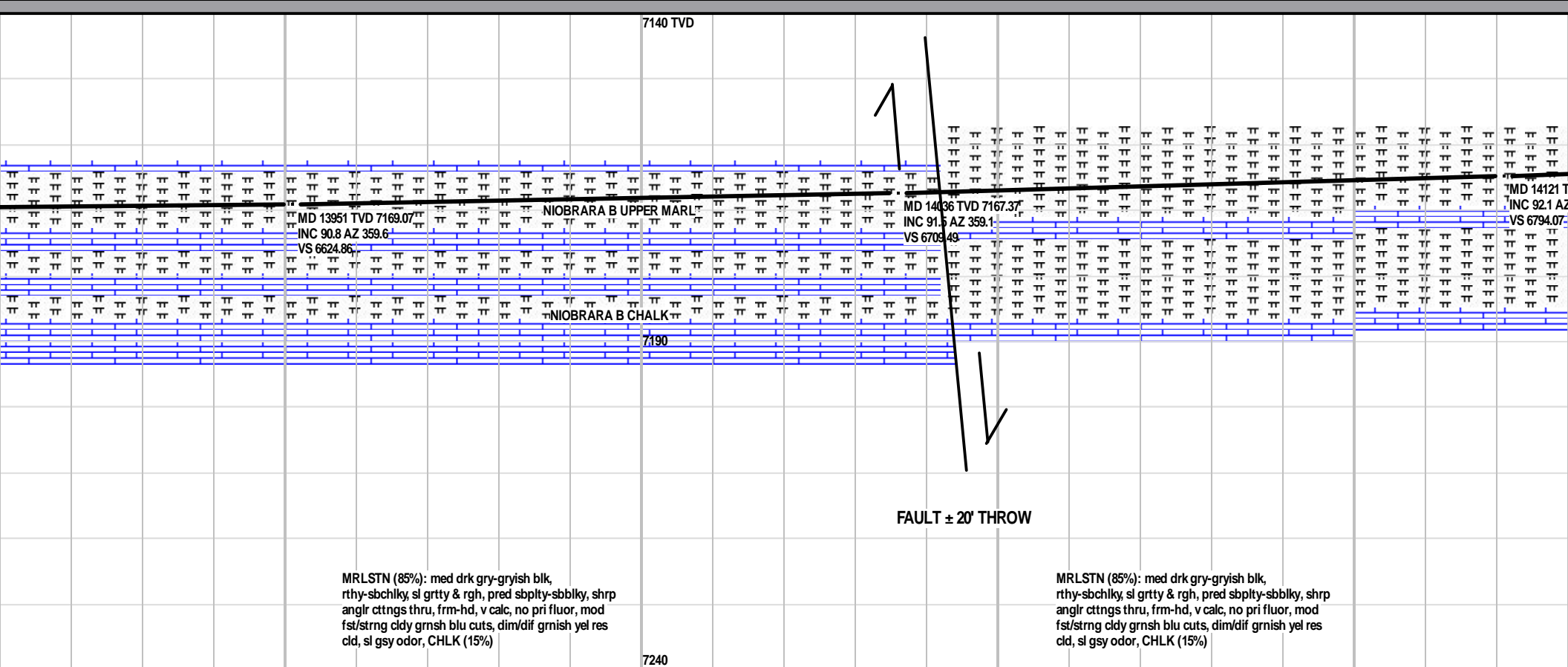
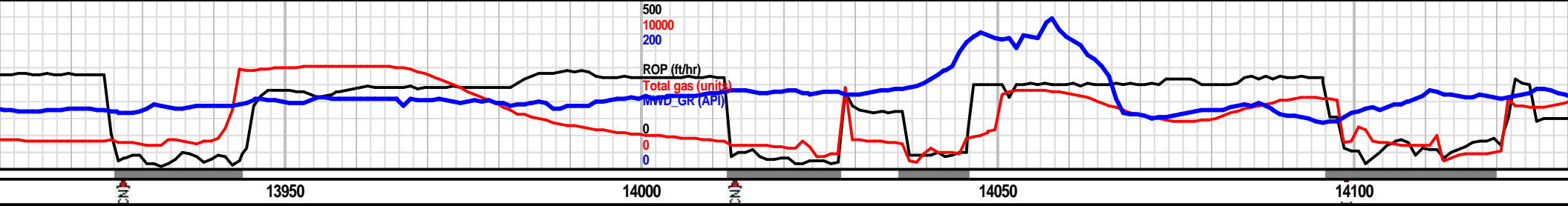
CHALK (60%): chlk, sbrthy, sb micritic, no ini fl even grn-yel res gry-gryblk, v rthy





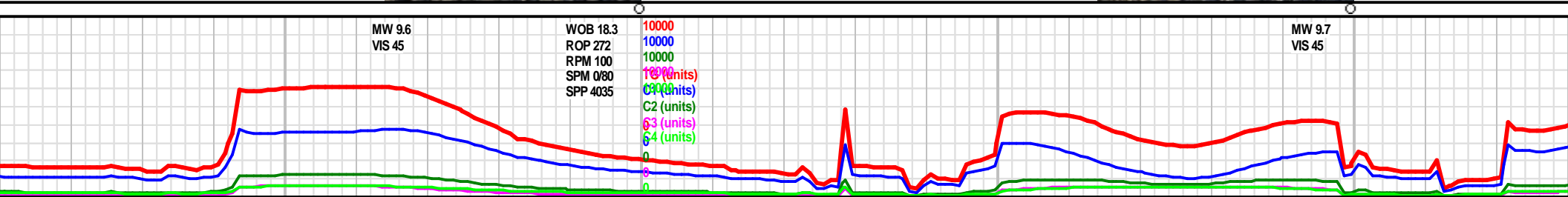




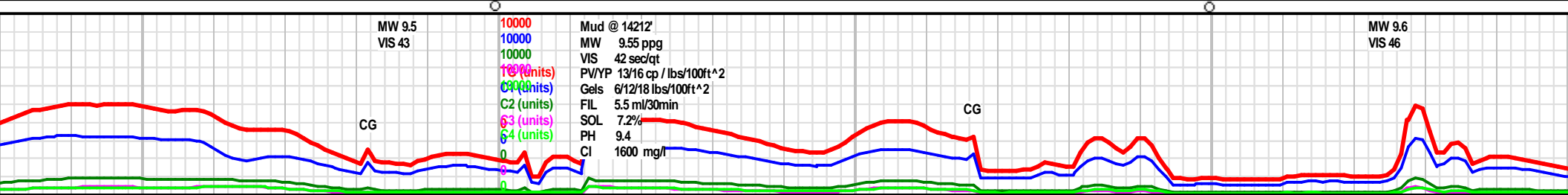
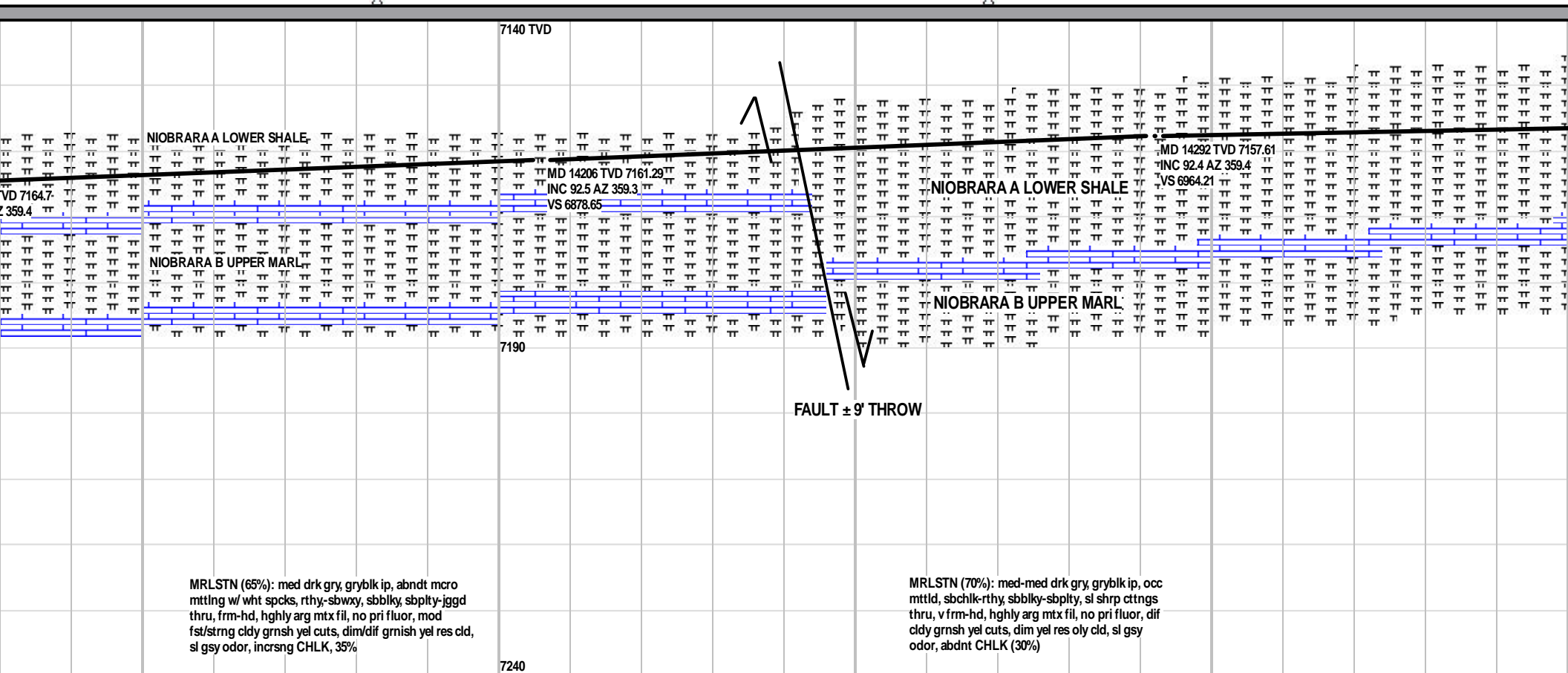
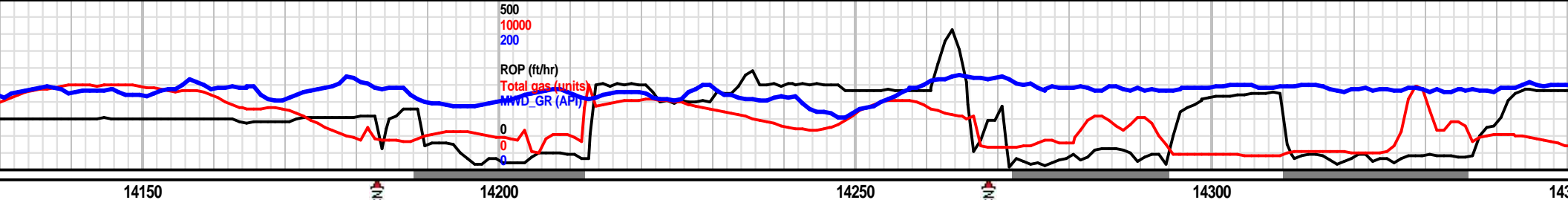


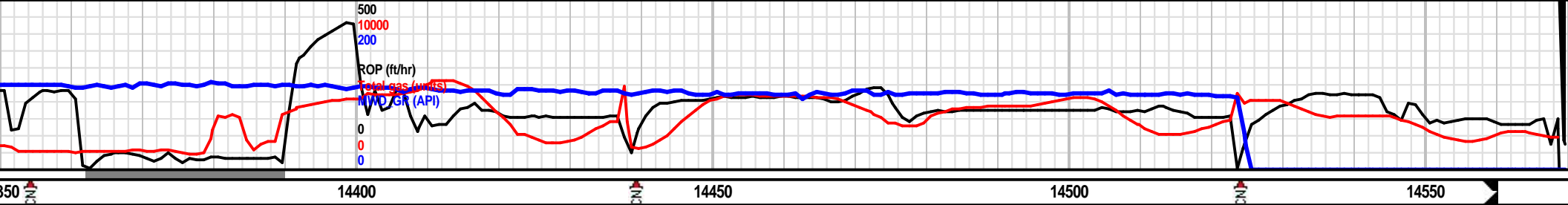
MRLSTN (85%): med drk gry-gryish blk, rthy-sbchly, sl grtty & rgh, pred sbpity-sbbly, shrp anglr ctngs thru, frm-hd, v calc, no pri fluor, mod fst/strng cldy grnsh blu cuts, dim/dif grnsh yel res cld, sl gsy odor, CHLK (15%)

MRLSTN (85%): med drk gry-gryish blk, rthy-sbchly, sl grtty & rgh, pred sbpity-sbbly, shrp anglr ctngs thru, frm-hd, v calc, no pri fluor, mod fst/strng cldy grnsh blu cuts, dim/dif grnsh yel res cld, sl gsy odor, CHLK (15%)

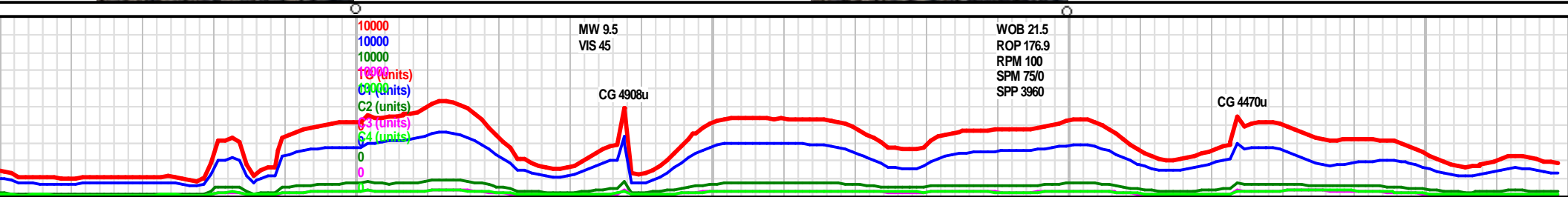








7140 TVD																			
MD 14377 TVD 7155.98																			
INC 89.8 AZ 0.1																			
VS 7048.88																			
MD 14462 TVD 7156.69																			
INC 89.3 AZ 359.4																			
VS 7133.57																			
MD 14508 TVD 7157.01																			
INC 89.8 AZ 359.5																			
VS 7179.39																			
7190																			
MRLSTN (80%): med-med drk gry, gryblk ip, occ mttld, sbchlk-rthy, sbblky-sbply, sl shrp ctngs thru, v frm-hd, hghly arg mtx fil, no pri fluor, dif cldy grnsh yel cuts, dim yel res oly cld, sl gsy odor, abdt CHLK (20%)																			
7240																			
MRLSTN (80%): med-med drk gry, gryblk ip, occ mttld, sbchlk-rthy, sbblky-sbply, sl shrp ctngs thru, v frm-hd, hghly arg mtx fil, no pri fluor, dif cldy grnsh yel cuts, dim yel res oly cld, sl gsy odor, abdt CHLK (20%)																			



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**Thank You**  
**Goolsby Brothers & Assoc.**  
**Blake Stacey & Larry Goolsby**

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