

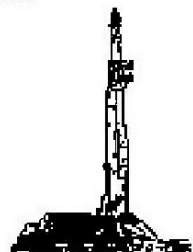
GOOLSBY BROTHERS
and associates, inc.

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: D&C Farms 34N-33HZ

Location: Section 28, T1N, R67W, Weld County, CO.

License Number: API: 05-123-37891-00

Spud Date: 22 Sept 2013

Surface Coordinates: 501' FSL X 1458' FWL SESW

LAT: 40.016205 LONG: -104.899666

Bottom Hole Coordinates: 1' FNL X 970' FWL NWNW (Proj)

LAT: 40.013000 LONG: -104.901547

Ground Elevation (ft): 5007'

Logged Interval (ft): 7150'

Formation: Niobrara

Type of Drilling Fluid: Polymer-Gel

K.B. Elevation (ft): 5023'

Total Depth (ft): 12705'

Region: Wattenberg
Drilling Completed: XX Sept 2013

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: John Adams & Robin Brackman

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

Address: 575 Union Blvd.

Suite 208,

Lakewood CO. 80228

E-logs

MWD GR xxxx' - xxxxxx'
MWD IND xxxxx' - xxxxx'


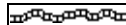
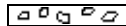
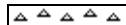
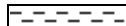
Casing






9 5/8" Surface Casing set @ 1040'
7" Intermediate Casing set @ xxxx' MD, set on xx xxx 2013
& run 4 1/2" Production Liner & Packer on xx xxxx 2013.




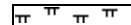

Comments

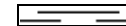

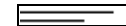


- 1) Drilling Contractor: Xtreme Drilling, Rig # 23
- 2) Directional Drilling: Weather ford Drilling Services
MWD/LWD: John Jackson, Michael Nguyen
- 3) Gas Equipment: Mudlogging Systems Inc.
by Terra Services Redbox # ML-TGC 326 & Ratcliff Agitator



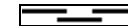

ROCK TYPES

 Anhy
 Bent
 Brec
 Cht
 Clyst

 Coal
 Oil sat.
 Congl
 Dol
 Gyp

 Igne
 Lmst
 Meta
 Mrlst
 Salt

 Shale
 Shcol
 Shgy
 Ss
 Sltst

 Ss
 Chalk
 Carb sh
 Sltty sh

ACCESSORIES

MINERAL

Anhy
 Arggrn
 Arg
 Bent
 Bit
 Brecfrag
 Calc
 Carb
 Chtdk
 Chltt
 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

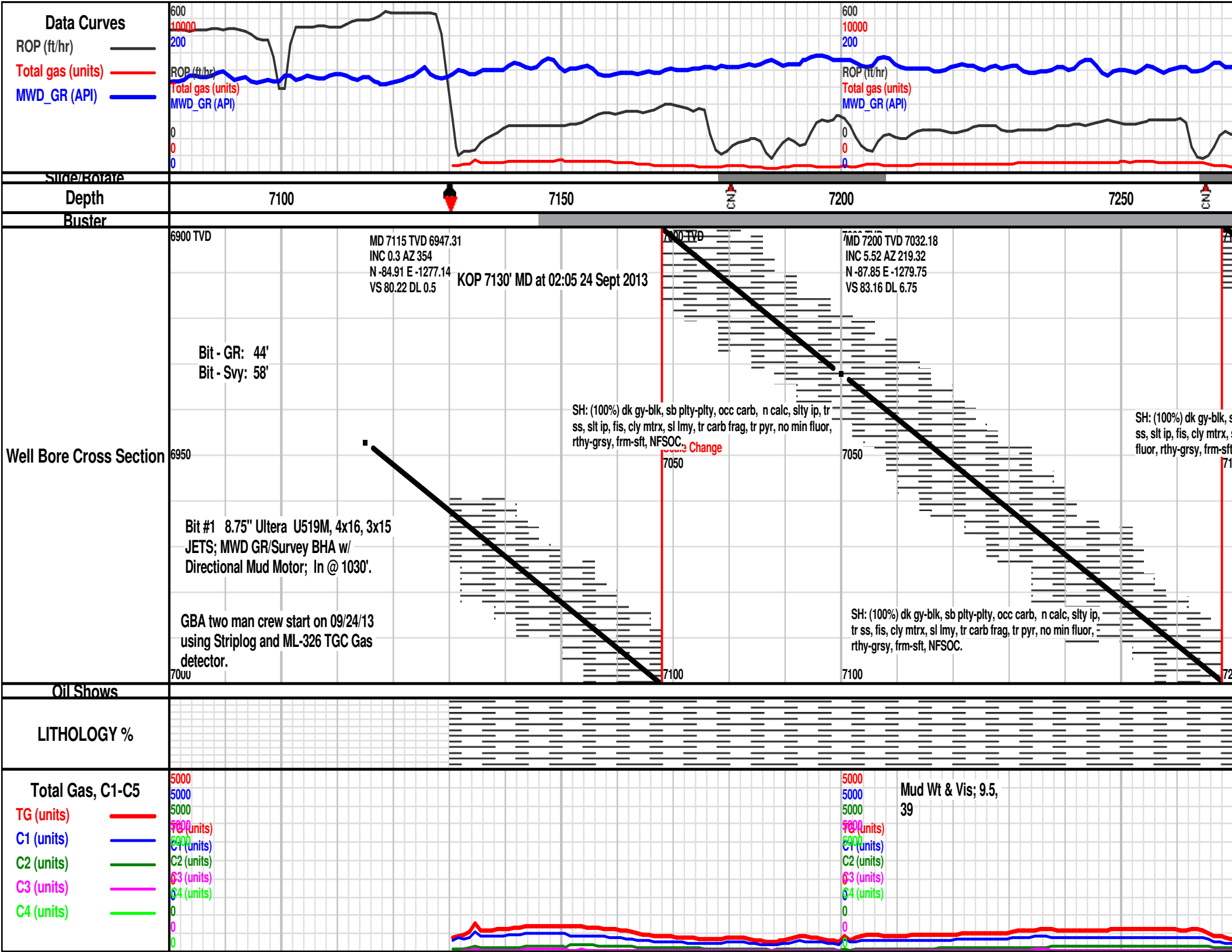
Inter
 Moldic
 Organic
 Pinpoint
 Vuggy

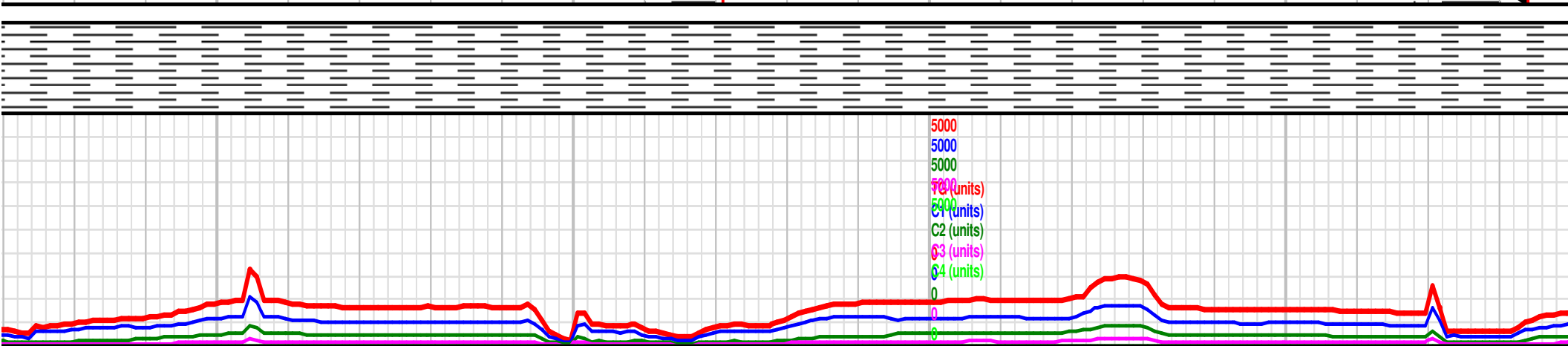
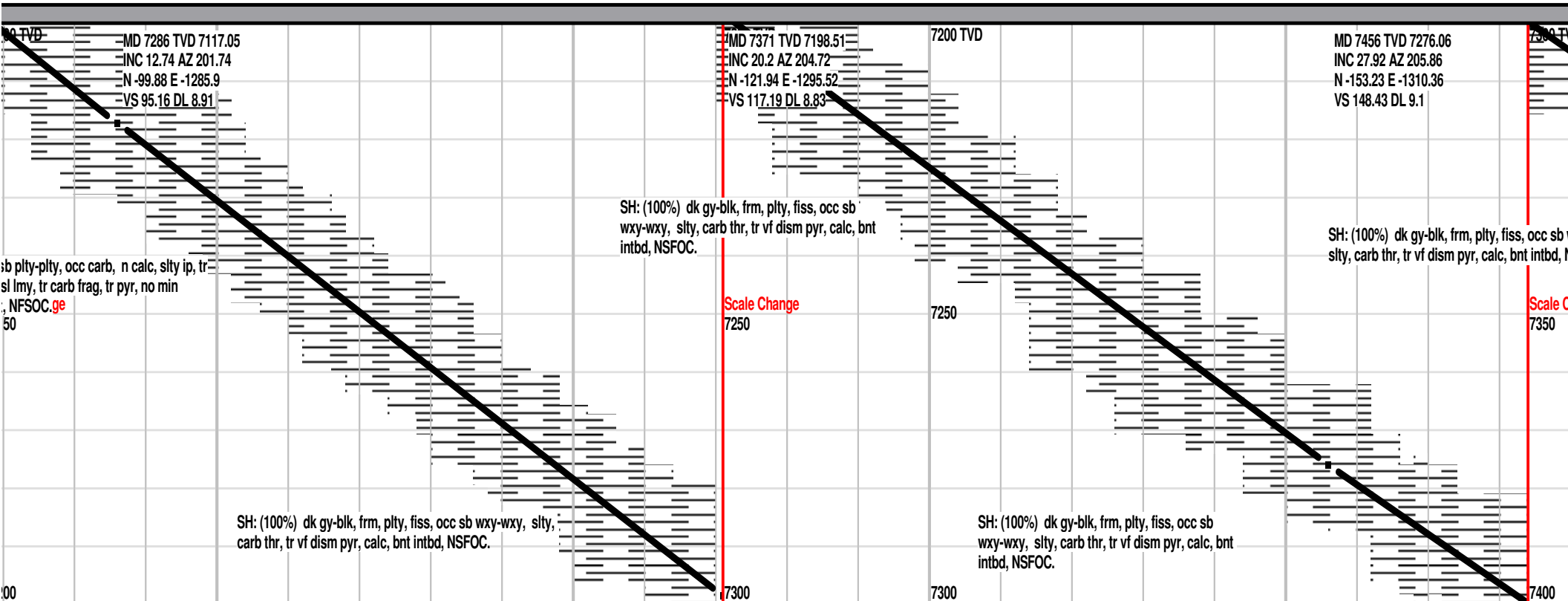
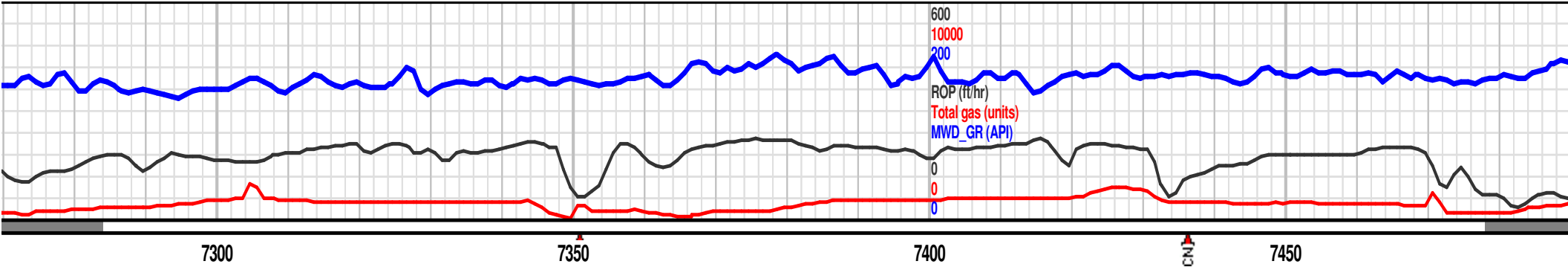
ROUNDING

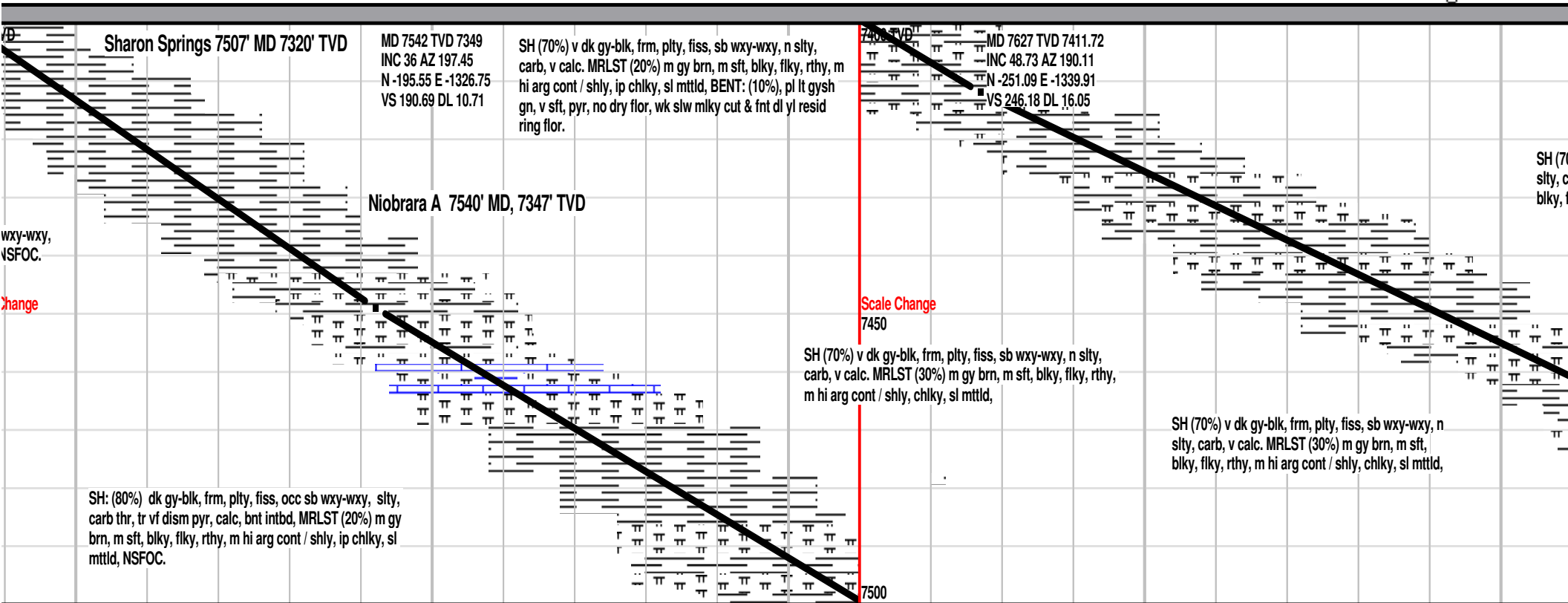
Rounded
 Subrnd
 Subang
 Angular

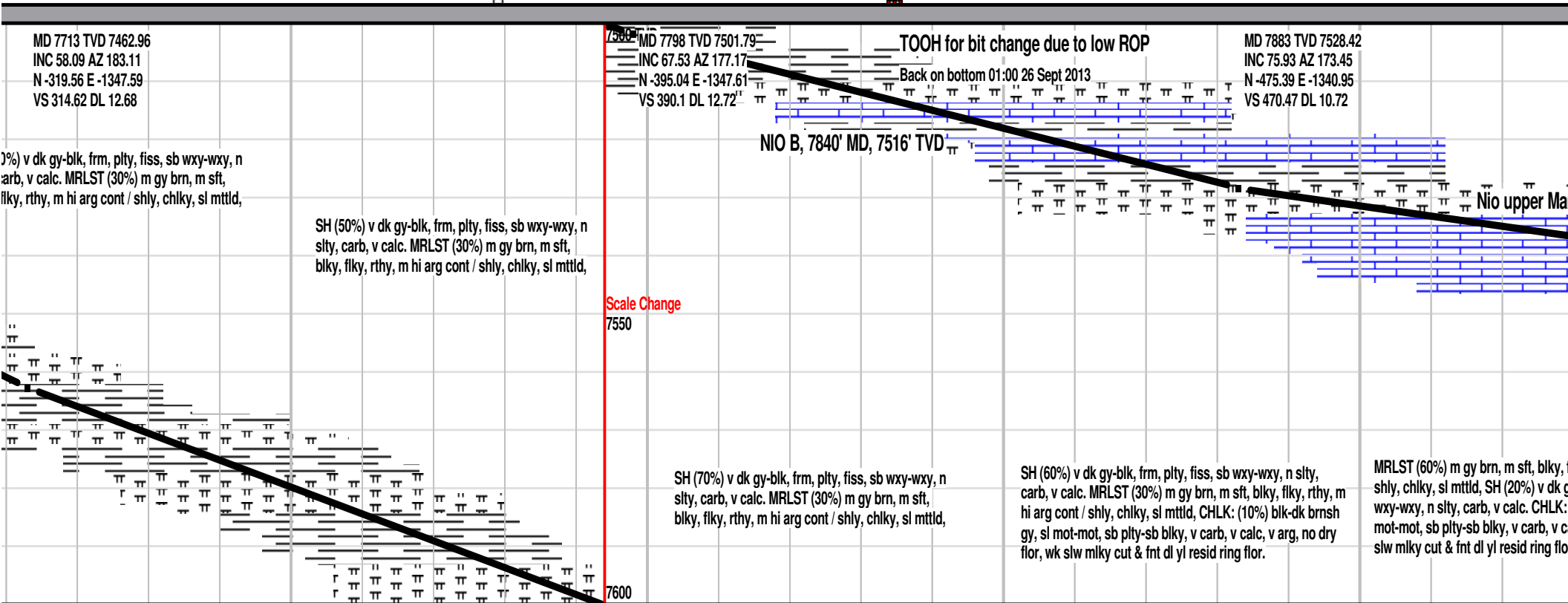
SORTING

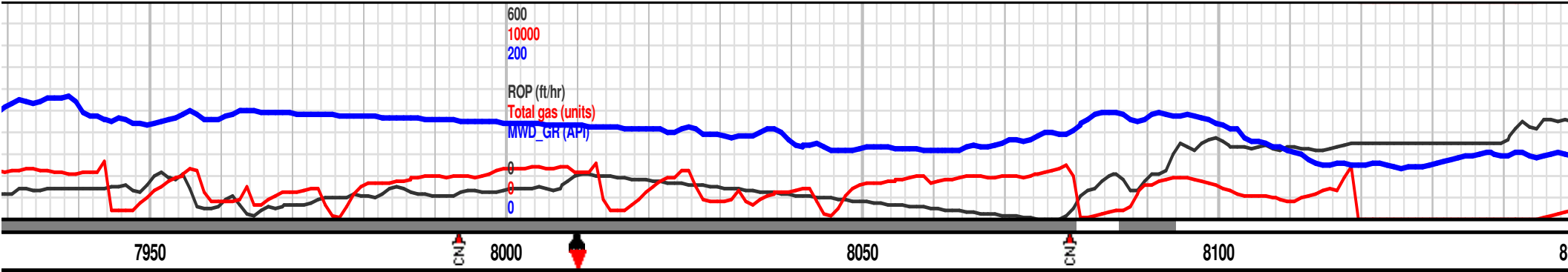
Well
 Moderate
 Poor











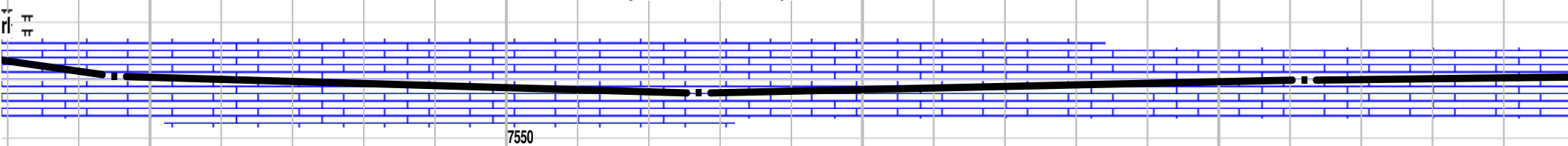
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INC 83.76 AZ 173.74
N -535.99 E -1334.15
VS 531.1 DL 12.64

7500 TVD

MD 8027 TVD 7542.3
INC 92.1 AZ 174.44
N -617.43 E -1325.72
VS 697.24 DL 2.03

MD 8112 TVD 7540.15
INC 90.8 AZ 175.58
N -702.07 E -1318.33
VS 697.24 DL 2.03

Reached ICP of 8010' @ 05:15 on 09/26/2013
Drilling resumed 23:25 28 Sept 2013

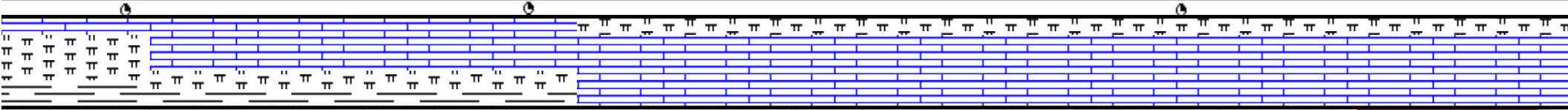


filky, rthy, m hi arg cont /
y-blk, frm, pty, fiss, sb
(20%) blk-dk brnsh gy, sl
alc, v arg, no dry flor, wk
r.

CHLK: (60%) blk-dk brnsh gy, sl mot-mot, sb pty-sb blk, v carb, v calc, v arg, no dry flor, wk slw mlky cut & fnt dl yl resid ring flor, MRLST (30%) m gy brn, m sft, blk, filky, rthy, m hi arg cont / shly, chiky, sl mttld, SH (10%) v dk gy-blk, frm, pty, fiss, sb wxy-wxy, n slty, carb, v calc.

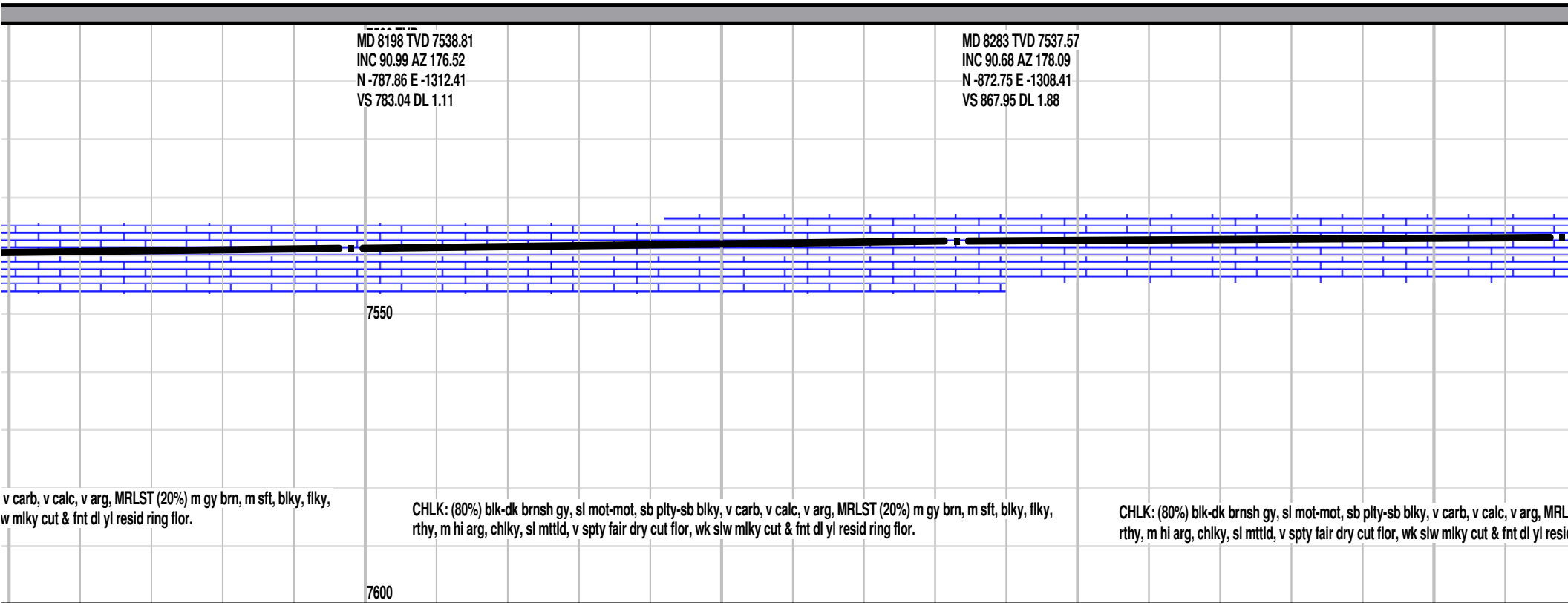
CHLK: (80%) blk-dk brnsh gy, sl mot-mot, sb pty-sb blk, v carb, v calc, v arg, MRLST (20%) m gy brn, m sft, blk, filky, rthy, m hi arg, chiky, sl mttld, v spty fair dry cut flor, wk slw mlky cut & fnt dl yl resid ring flor.

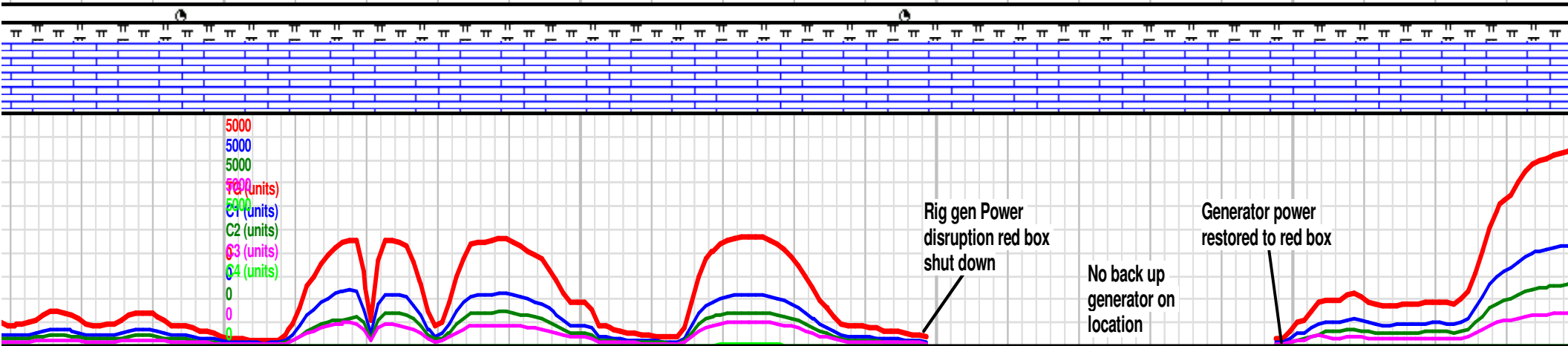
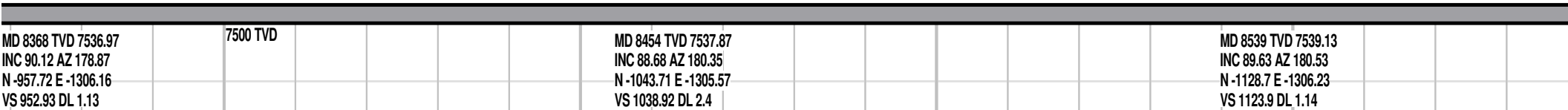
CHLK: (80%) blk-dk brnsh gy, sl mot-mot, sb pty-sb blk, rthy, m hi arg, chiky, sl mttld, v spty fair dry cut flor, wk slw

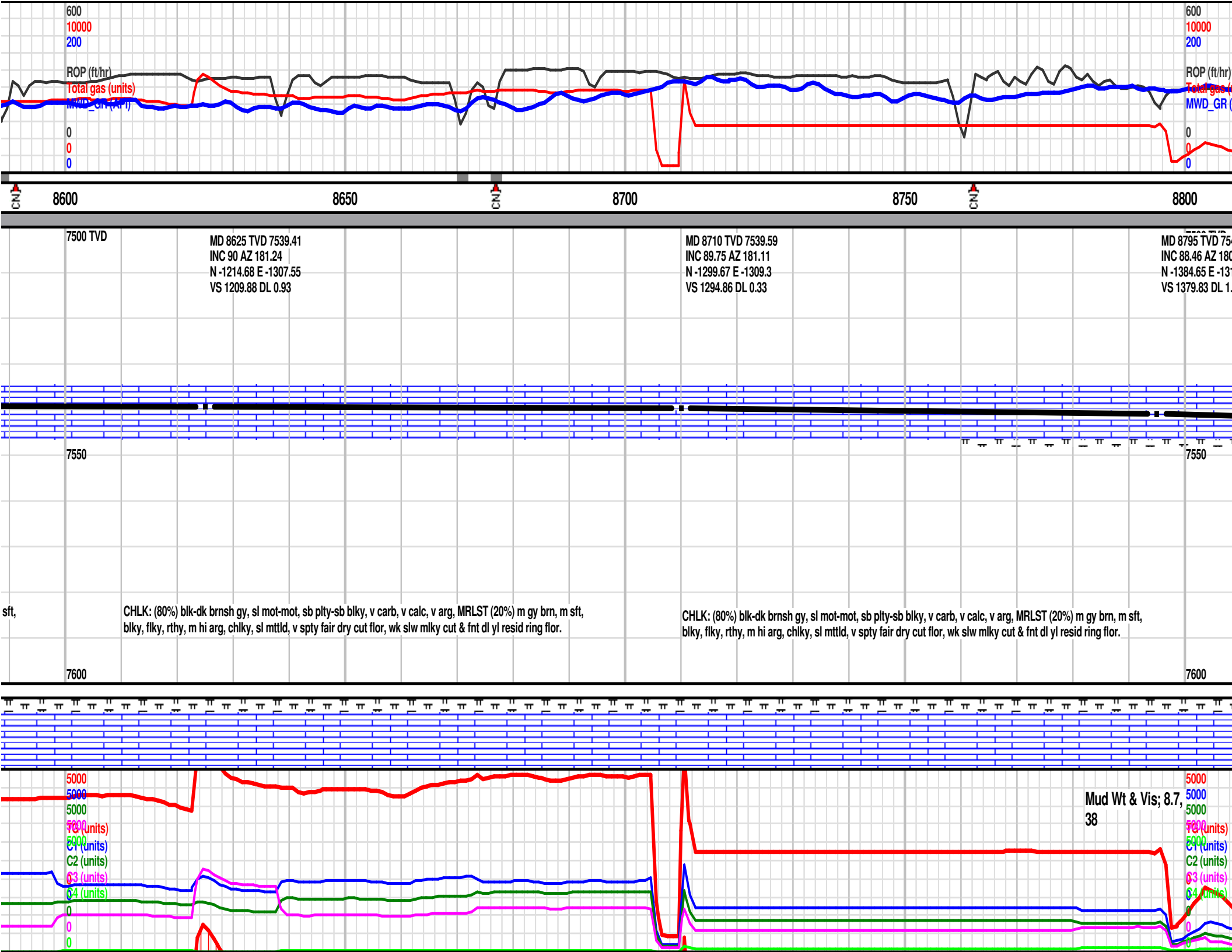


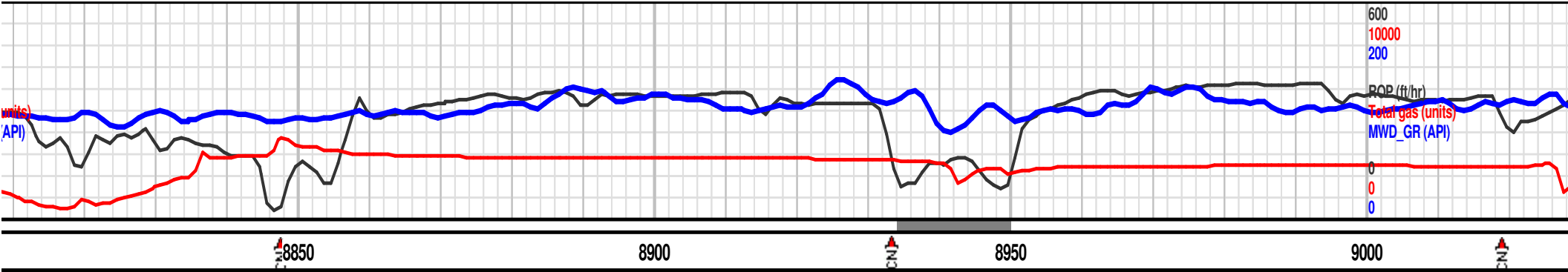
ft & Vis;
1

Mud Wt & Vis; 8.7,
36

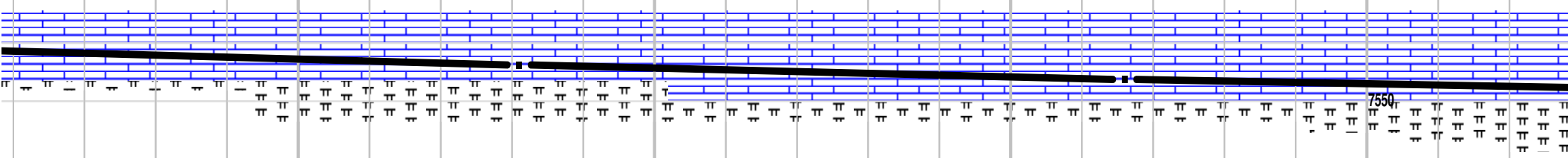








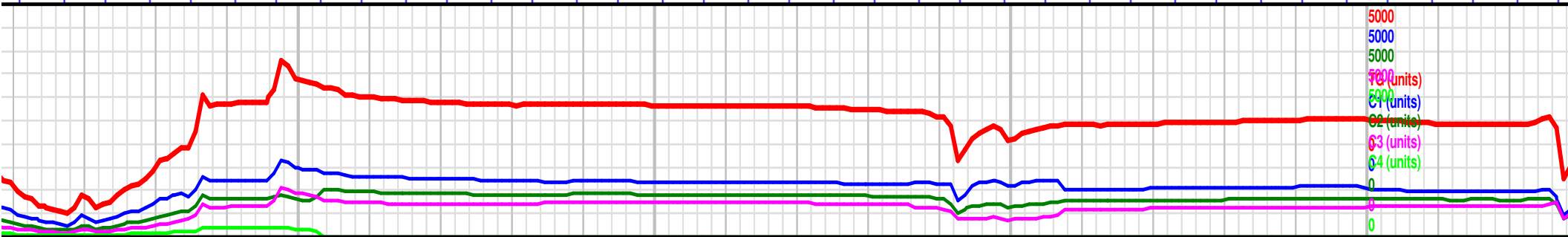
40.92	MD 8881 TVD 7543.79	MD 8966 TVD 7546.14	7500 TVD
1.54	INC 87.71 AZ 179.65	INC 89.12 AZ 178.77	
10.52	N -1470.6 E -1310.66	N -1555.55 E -1309.49	
66	VS 1465.78 DL 1.35	VS 1550.74 DL 1.96	

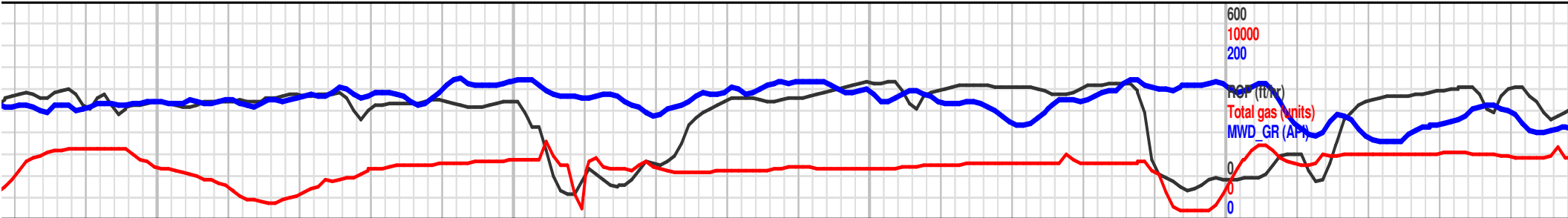


CHLK: (80%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blkly, v carb, v calc, v arg, MRLST (20%) m gy brn, m sft, blkly, flky, rthy, m hi arg, chlky, sl mttld, v spty fair dry cut flor, wk slw mlky cut & fnt dl yl resid ring flor.

CHLK: (60%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blkly, v carb, v calc, v arg, MRLST (40%) m gy brn, m sft, blkly, flky, rthy, m hi arg, chlky, sl mttld, v spty fair dry cut flor, wk slw mlky cut & fnt dl yl resid ring flor.

CHLK: (60%) blk-dk brnsh blkly, flky, rthy, m hi arg, c





9050

9100

9150

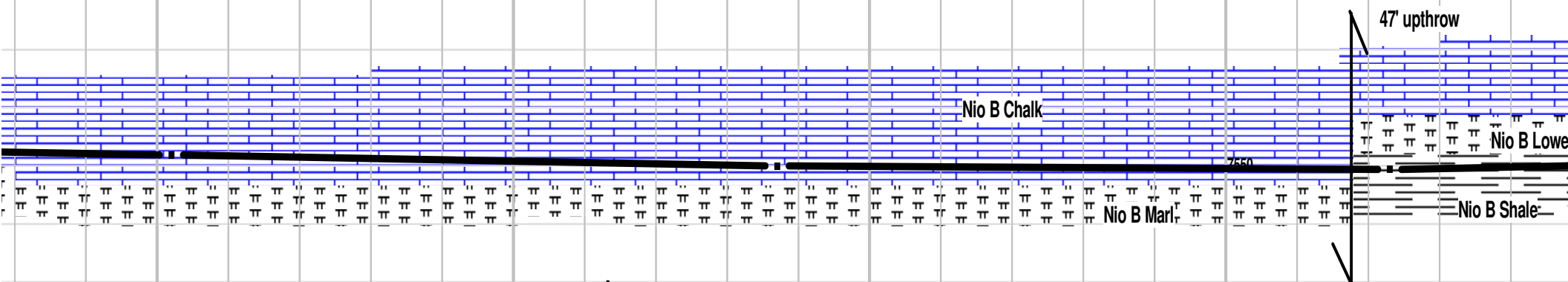
9200

MD 9052 TVD 7548
INC 88.4 AZ 177.8
N -1641.49 E -1306.92
VS 1636.69 DL 1.4

MD 9137 TVD 7550.1
INC 88.77 AZ 177.95
N -1726.41 E -1303.77
VS 1721.62 DL 0.47

7500 TVD

MD 9223 TVD 7550.56
INC 90.62 AZ 179.4
N -1812.38 E -1301.78
VS 1807.59 DL 2.73



Nio B Chalk

Nio B Marl

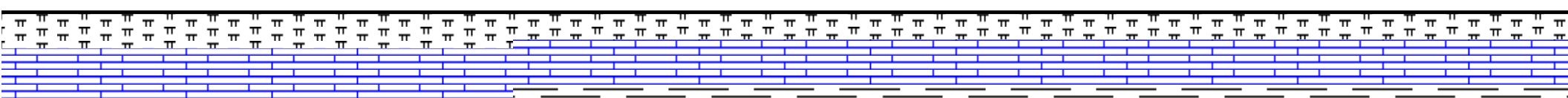
Nio B Shale

gy, sl mot-mot, sb plty-sb blkly, v carb, v calc, v arg, MRLST (40%) m gy brn, m sft, blkly, sl mttd, v spty fair dry cut flor, wk slw mlky cut & fnt dl yl resid ring flor.

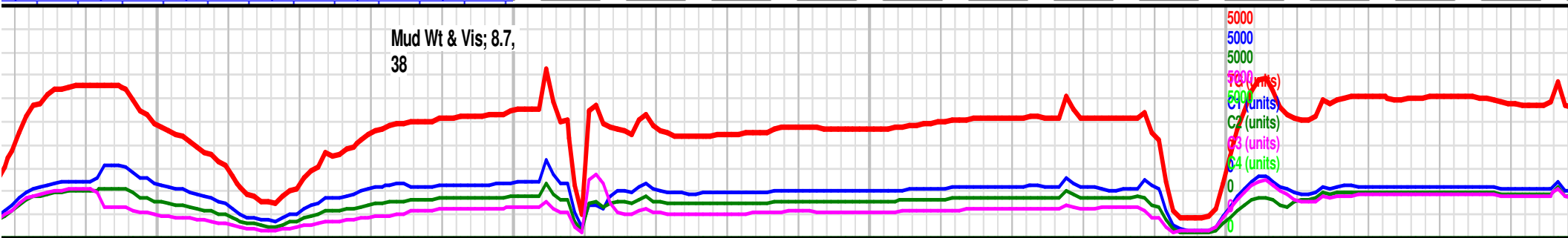
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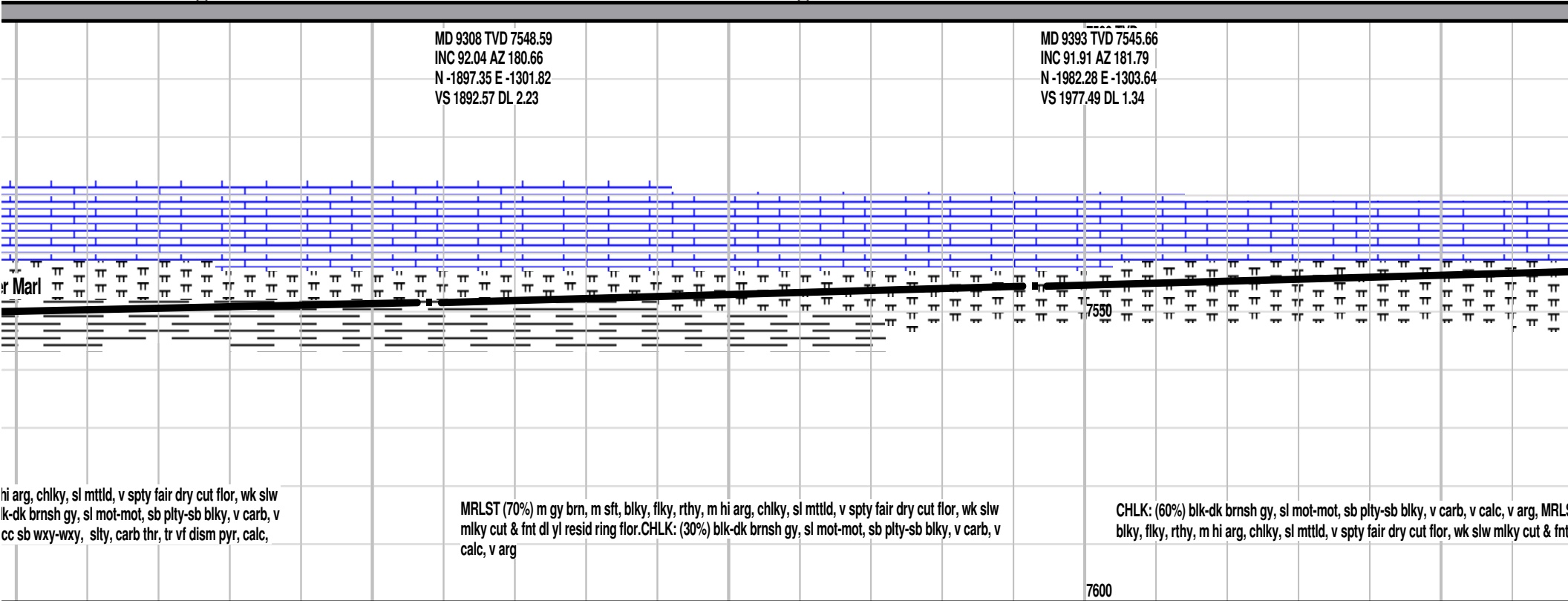
MRLST (40%) m gy brn, m sft, blkly, flky, rthy, m hi arg, chlky, sl mttd, v spty fair dry cut flor, wk slw mlky cut & fnt dl yl resid ring flor. CHLK: (30%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blkly, v carb, v calc, v arg, SH: (30%) dk gy-blk, frm, plty, fiss, occ sb wxy-wxy, slty, carb thr, tr vf dism pyr, calc, bnt intbd

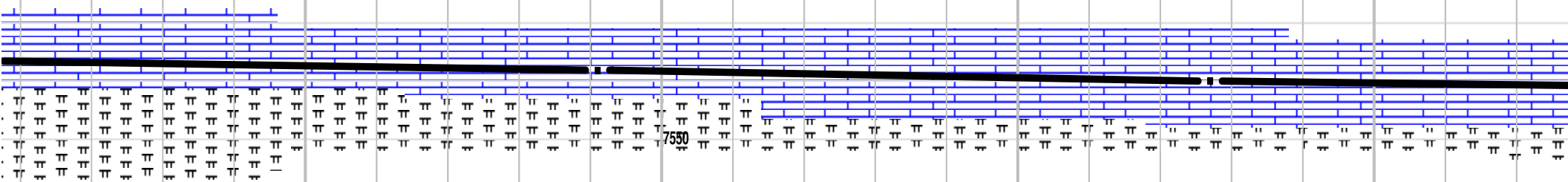
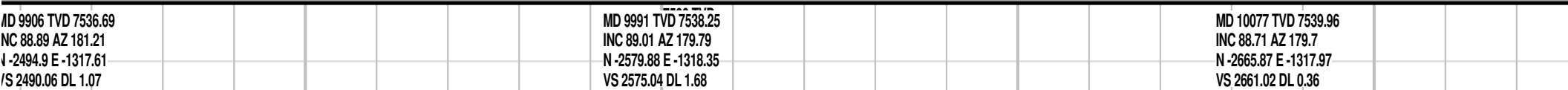
7600



Mud Wt & Vis; 8.7,
38



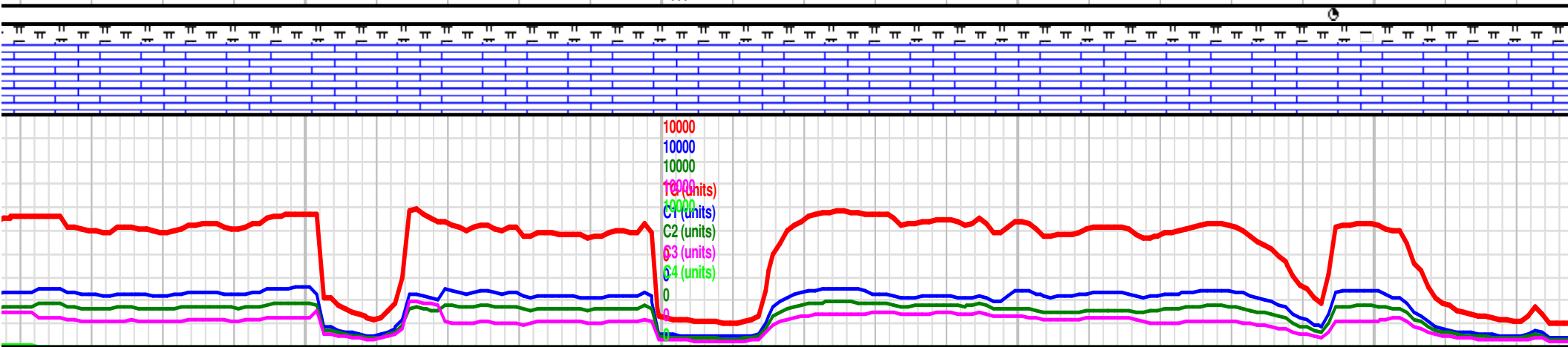


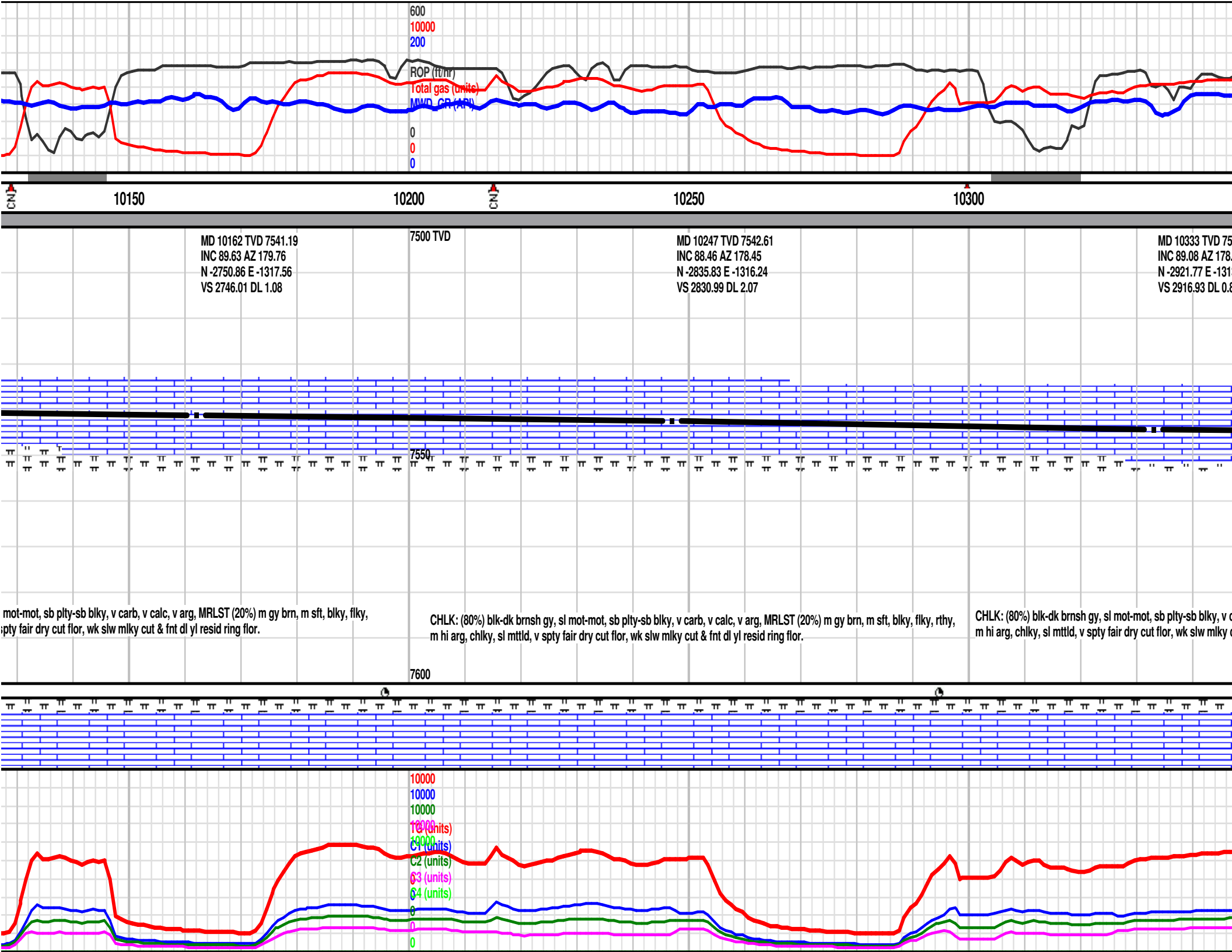


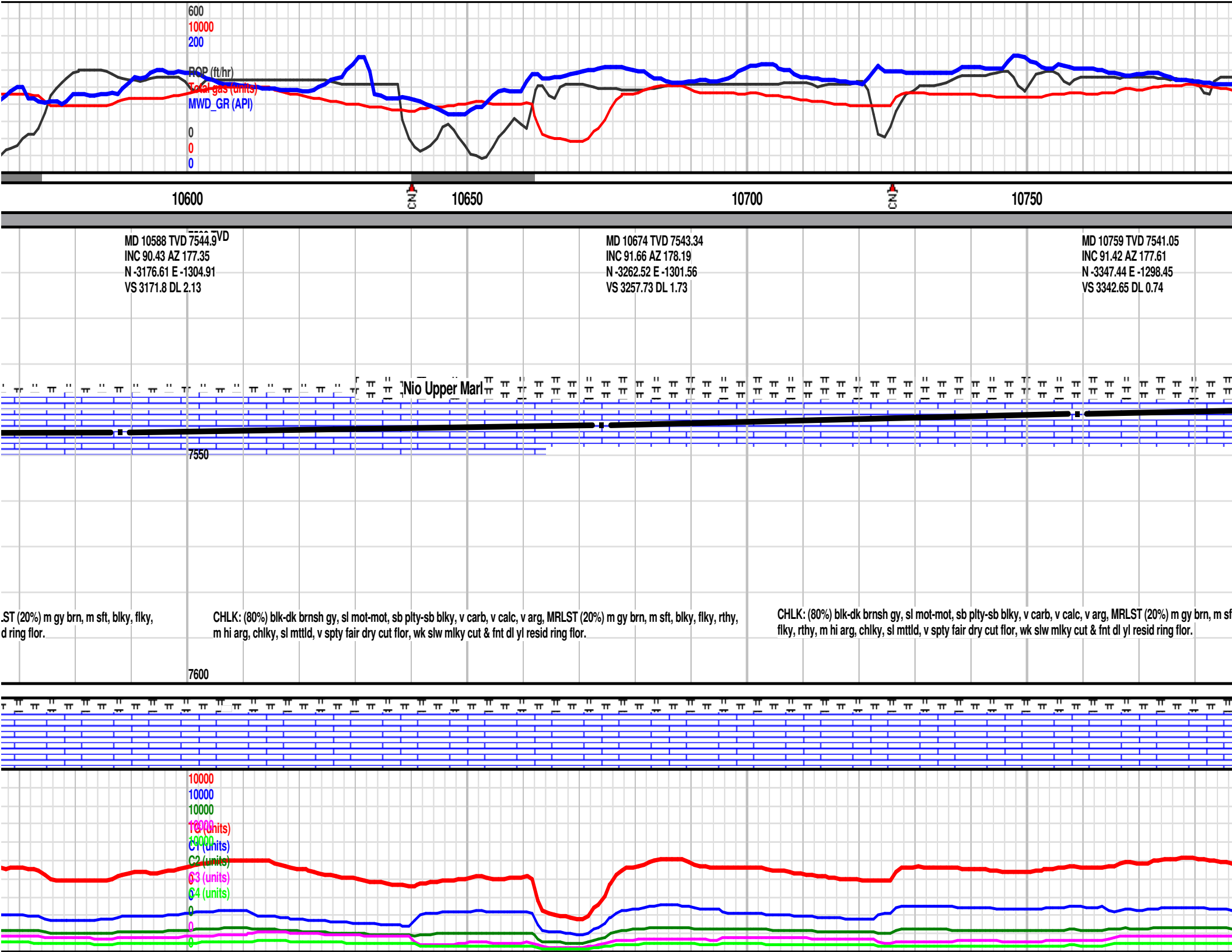
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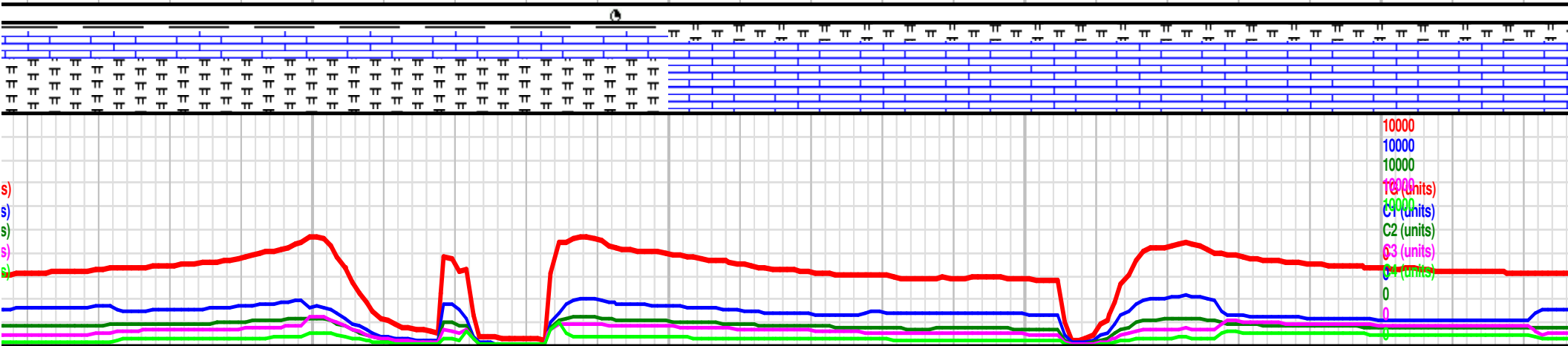
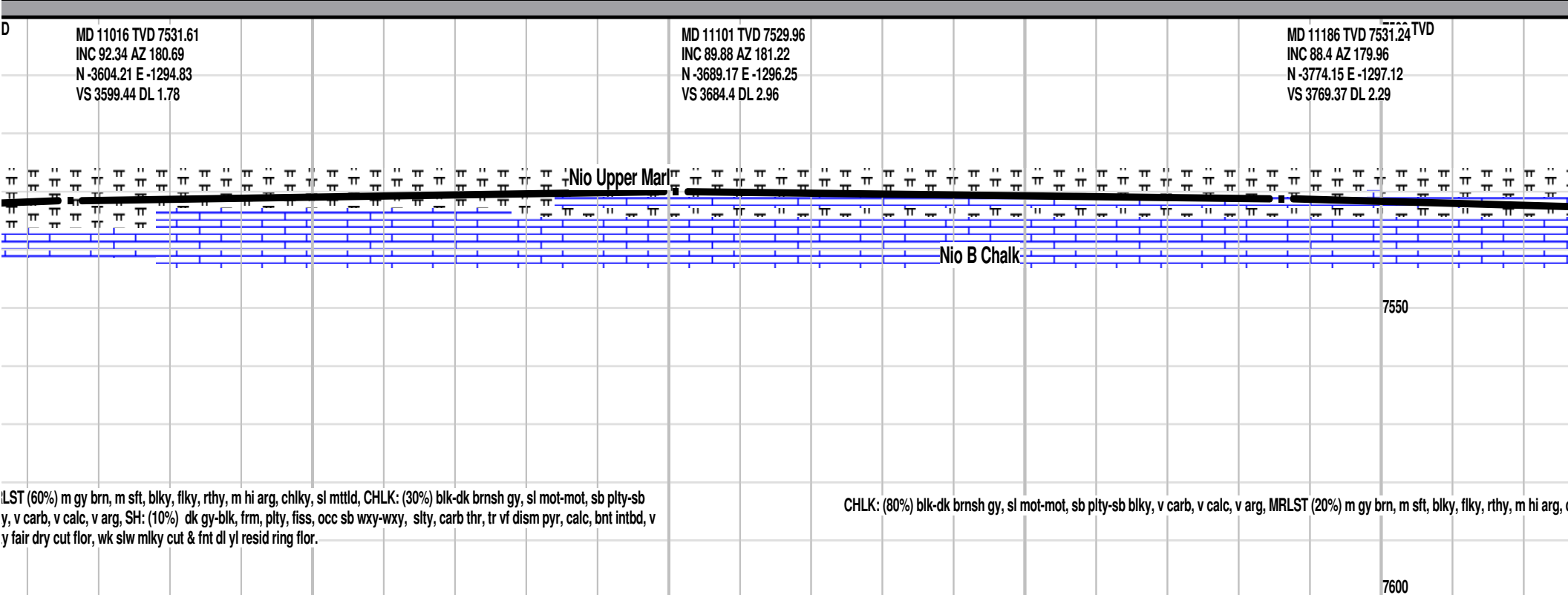
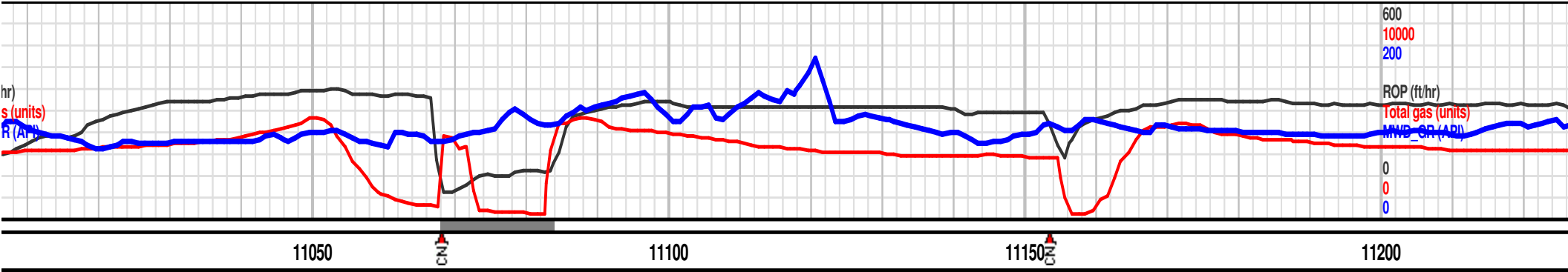
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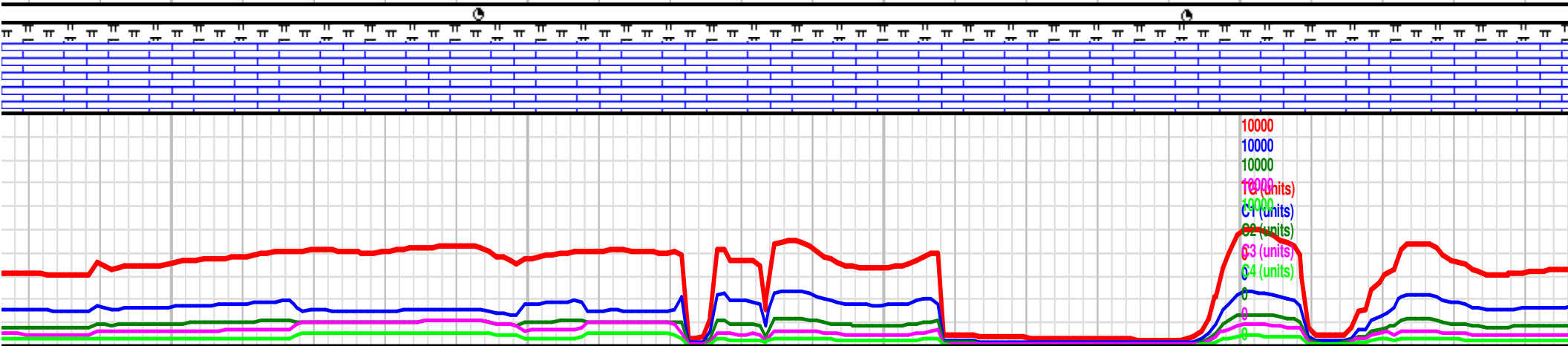
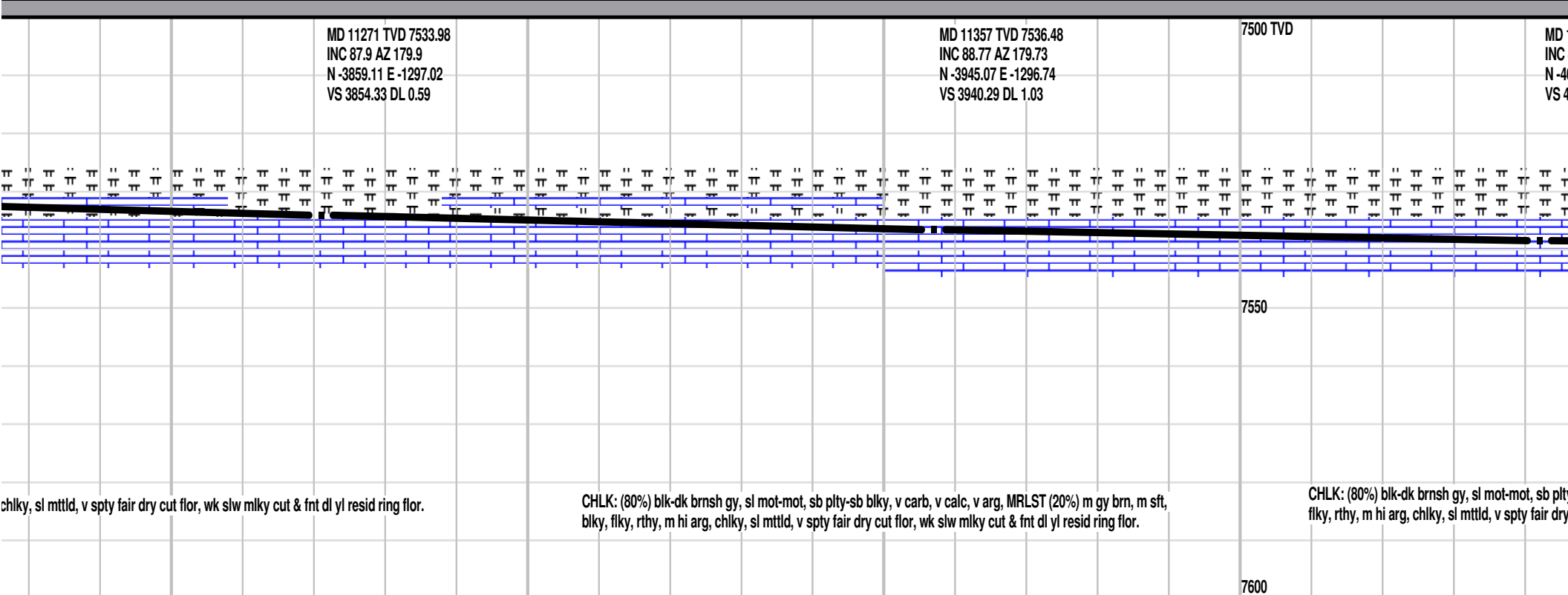
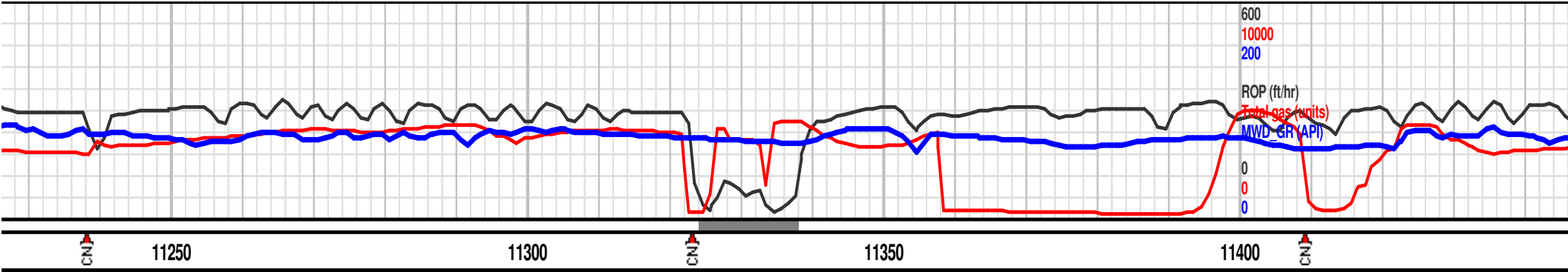
CHLK: (80%) blk-dk brnsh gy, sl
rthy, m hi arg, chlky, sl mttld, v s

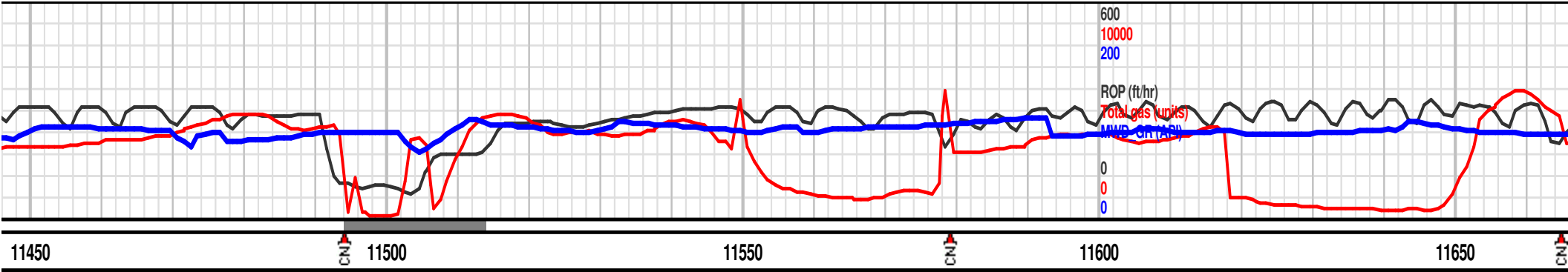












MD 11442 TVD 7538.53 88.46 AZ 180.62 030.04 E -1297 1025.26 DL 1.11	MD 11527 TVD 7539.53 INC 90.19 AZ 179.37 N -4115.03 E -1296.99 VS 4110.25 DL 2.51	7500 TVD MD 11612 TVD 7539.39 INC 90 AZ 179.55 N -4200.03 E -1296.19 VS 4195.25 DL 0.31

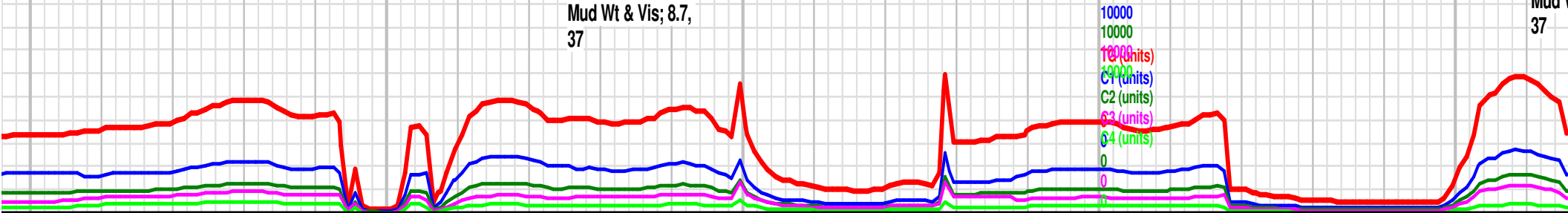
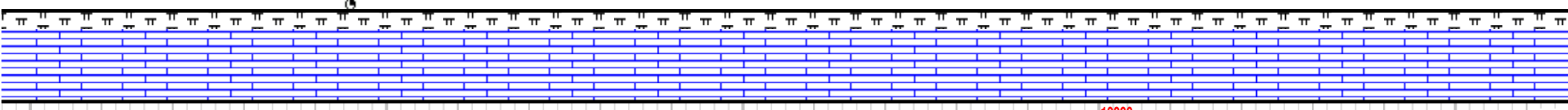
Nio B Chalk

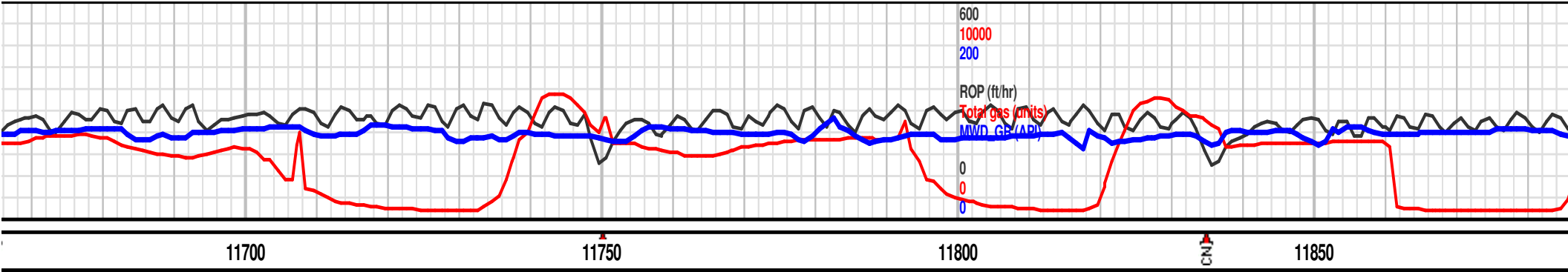
7550

7600

ys-sb blkly, v carb, v calc, v arg, MRLST (20%) m gy brn, m sft, blkly, cut flor, wk slw mlky cut & fnt dl yl resid ring flor.

CHLK: (80%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blkly, v carb, v calc, v arg, MRLST (20%) m gy brn, m sft, blkly, flky, rthy, m hi arg, chlkly, sl mttld, v spty fair dry cut flor, wk slw mlky cut & fnt dl

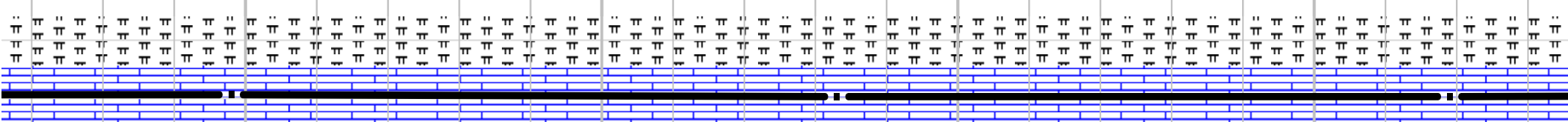




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N -4286.03 E -1296.33
VS 4281.25 DL 1.27

MD 11783 TVD 7539.62
INC 89.81 AZ 181.07
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VS 4366.23 DL 0.53

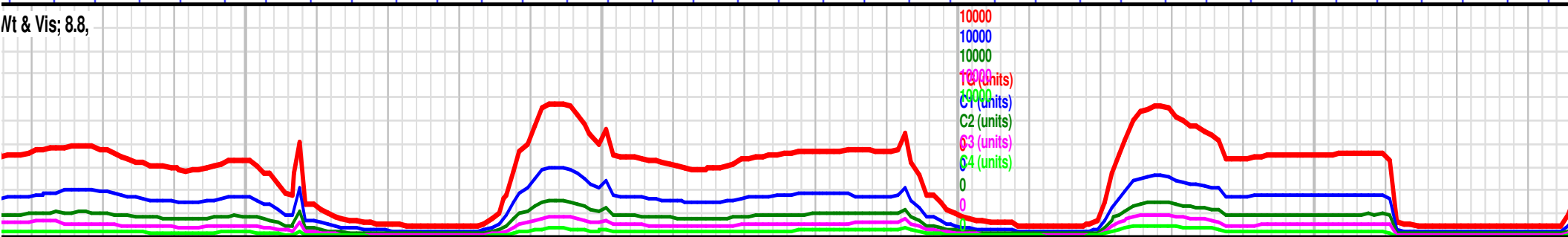
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INC 90.06 AZ 181.55
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VS 4452.2 DL 0.63

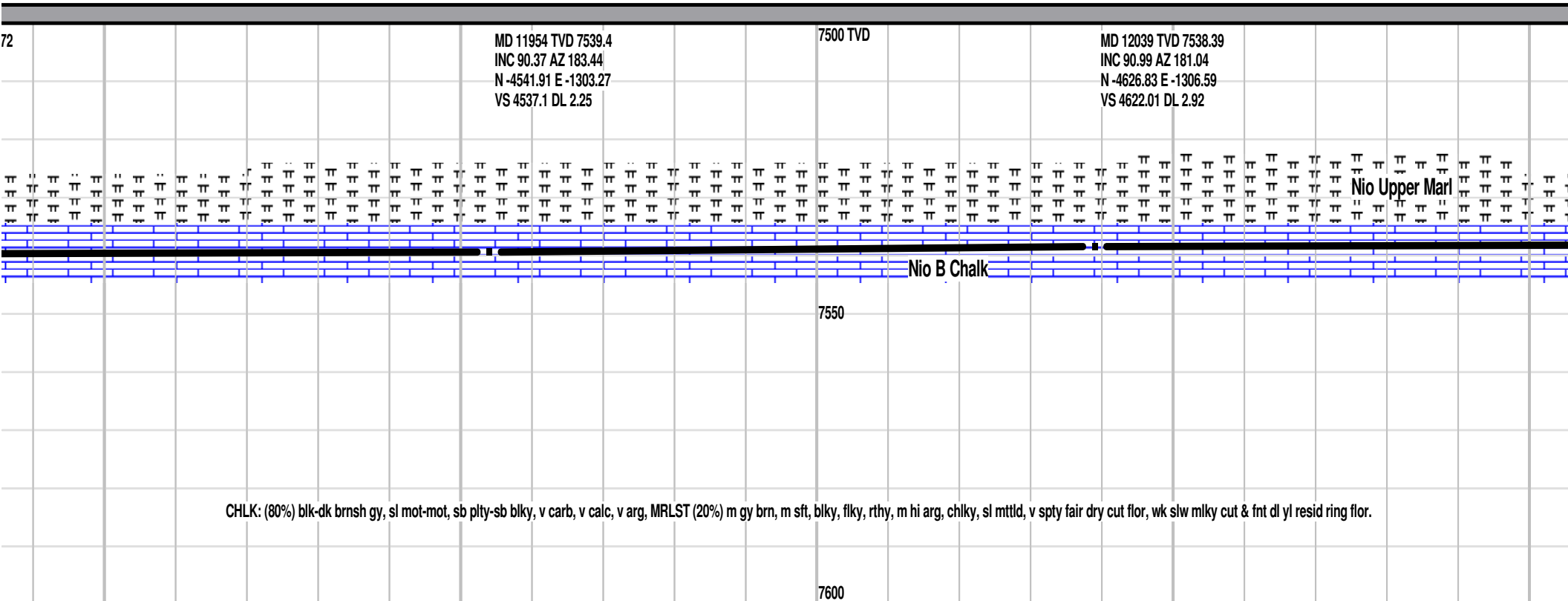


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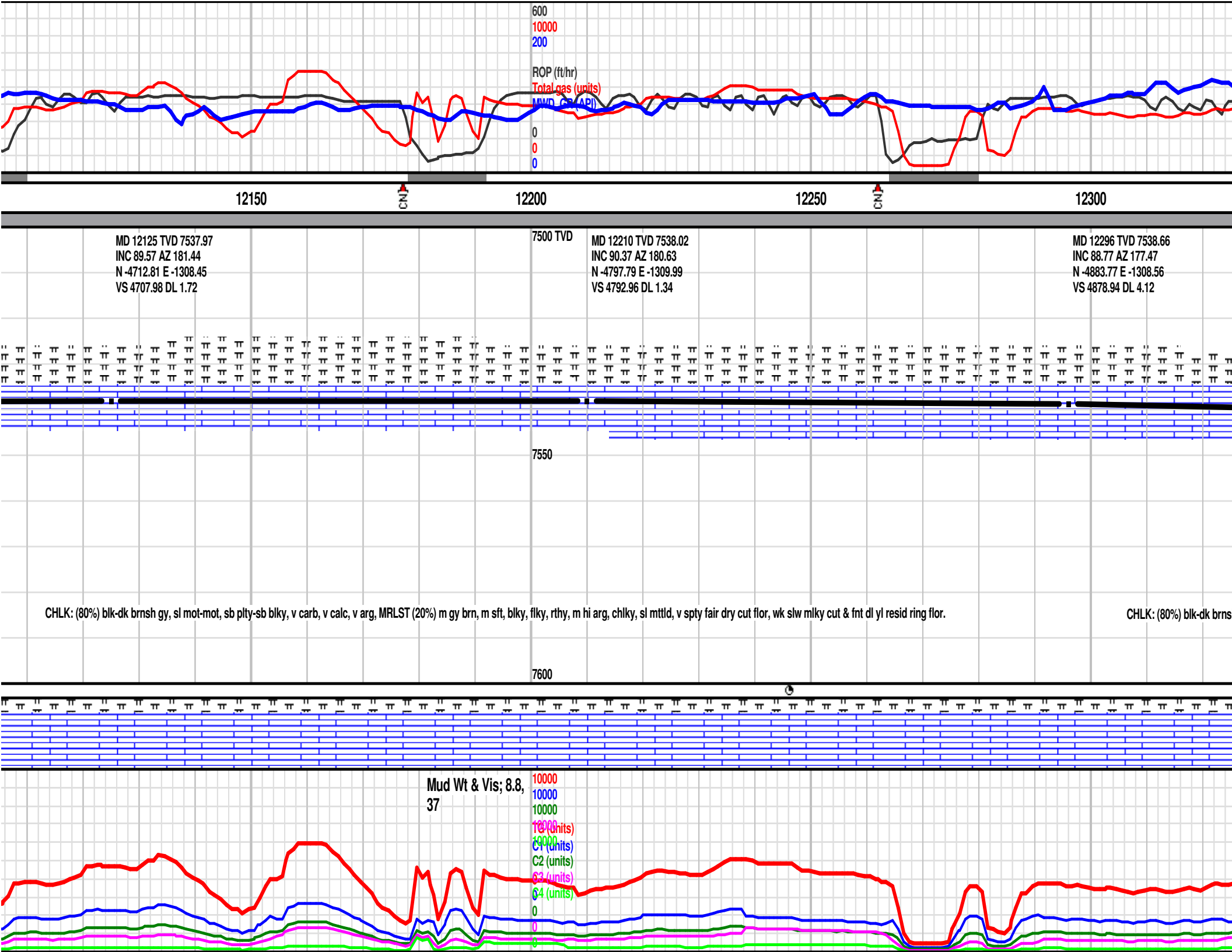
CHLK: (80%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blk, v carb, v calc, v arg, MRLST (20%) m gy brn, m sft, blk, filky, rthy, m hi arg, chiky, sl mttld, v spty fair dry cut flr, wk slw mlky cut & fnt dl yl resid ring flr.

7600





CHLK: (80%) blk-dk brnsh gy, sl mot-mot, sb plty-sb blkly, v carb, v calc, v arg, MRLST (20%) m gy brn, m sft, blkly, flky, rthy, m hi arg, chlkly, sl mttld, v spty fair dry cut flor, wk slw mlky cut & fnt dl yl resid ring flor.





12500

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INC 89.26 AZ 177.39
N -5053.57 E -1301.53
VS 5048.76 DL 1.34

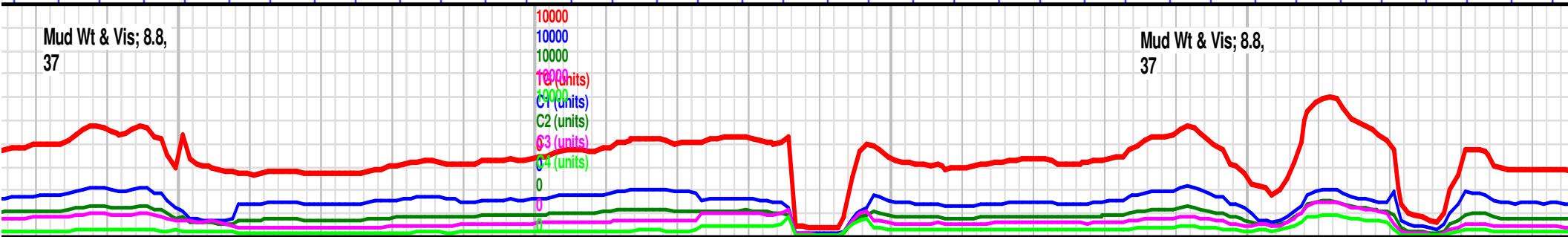


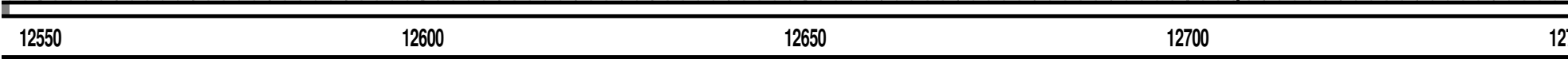
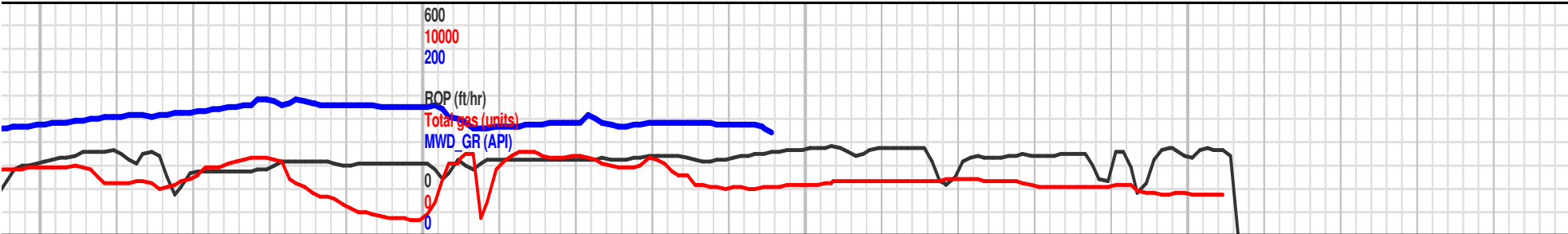
7600

CHLK: (80%) blk-dk brnsh gy, sl mot-mot, sb plty-sb



Mud Wt & Vis; 8.8,
37





MD 12552 TVD 7543.15
INC 90.25 AZ 176.92
N -5139.46 E -1297.26
VS 5134.67 DL 1.27

7500 TVD

MD 12653 TVD 7543.8
INC 89.01 AZ 177.25
N -5240.33 E -1292.13
VS 5235.55 DL 1.27

MD 12705 TVD 7544.7
INC 89.01 AZ 177.25
N -5293.3 E -1289.6
VS 5287.5



Nio B Chalk

TD 09:20 on 30 Sept 2013

7550

	SSD	TVD	MD
Sharon Springs	-2297	7320	7507
Niobrara A	-2324	7347	7540
Niobrara B Chalk	-2493	7516	7840

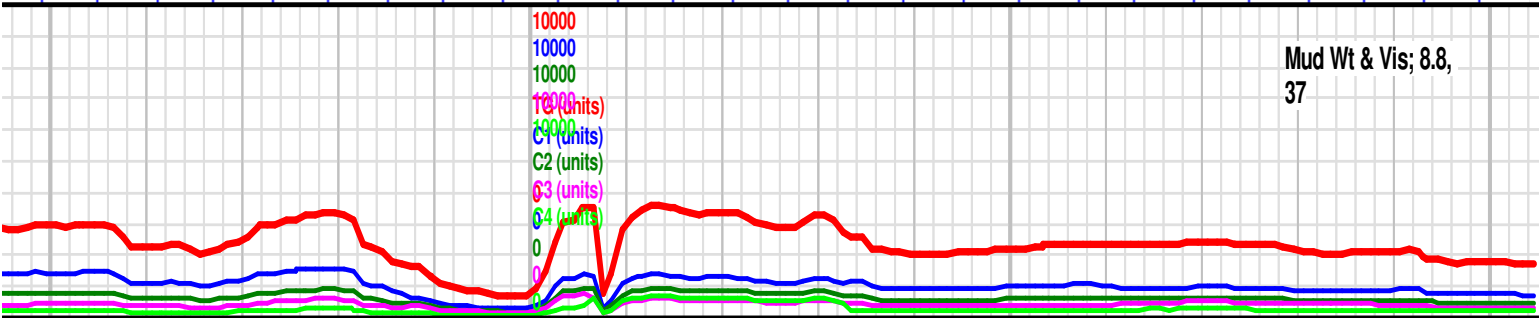
v blk, v carb, v calc, v arg, MRLST (20%) m gy brn, m sft, blk, flky, rthy, m hi arg, chiky, sl mtlid, v spty fair dry cut flor, wk slw mlky cut & fnt dl yl resid ring flor.

Thank you
Goolsby Brothers & Assoc.

7600



7650



Mud Wt & Vis; 8.8,
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