



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

Well Name: Razor 25O-2444
API: 051234264600
Location: Sec 25-T10N-R58W
License Number:
Spud Date: 9/7/2016
Surface Coordinates: 40.803325
-103.810194

Region: Wildcat Field
Drilling Completed: 9/13/2016

Bottom Hole
Coordinates:
Ground Elevation (ft): 4718
Logged Interval (ft): 5000 To: 15951
Formation: Niobrara
Type of Drilling Fluid: Water Based Mud

K.B. Elevation (ft): 4739
Total Depth (ft): 15951

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

OPERATOR

Company: Whiting Oil & Gas Corp.
Address: 1700 Broadway Suite 2300
Denver, CO 80290

GEOLOGIST

Name: Mitch Schneider, Kyle Newman
Company: Acme Geologic Consulting
Address: 108 Berry Street
Little Rock, AR 72205

Drilling Company

Unit Drilling Company
Rig 406

Gas Detection

Mudlogging Systems, Inc., M Logger, Model TGC, Total Gas and Chromatograph

Comments

Lithologies and tops at drilled depths, not corrected to elogs. Where the well bore gas is 100% methane, the C1 line is moved to 85% for graphical purposes only.

ROCK TYPES

 Anhy
 Bent
 Brec
 Cht
 Clyst

 Coal
 Congl
 Dol
 Gyp
 Igne

 Lmst
 Meta
 Cyan mrlst
 Mrlst
 Salt
















 Shale
 Shcol
 Shgy
 Sltst
 Ss







 Till
 Cyan chk
 Chalk

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
 Anhy
 Arg
 Bent
 Coal
 Dol
 Gyp
 Ls
 Mrst

 Sltstrg
 Ssstrg

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

POROSITY

-  Earthy
-  Fenest
-  Fracture
-  Inter
-  Moldic
-  Organic
-  Pinpoint







Vuggy

SORTING

-  Well
-  Moderate
-  Poor

OTHER SYMBOLS

ROUNDING

-  Rounded
-  Subrnd
-  Subang
-  Angular

OIL SHOW

-  Even



Spotted



Ques



Dead

INTERVAL



Core



Dst

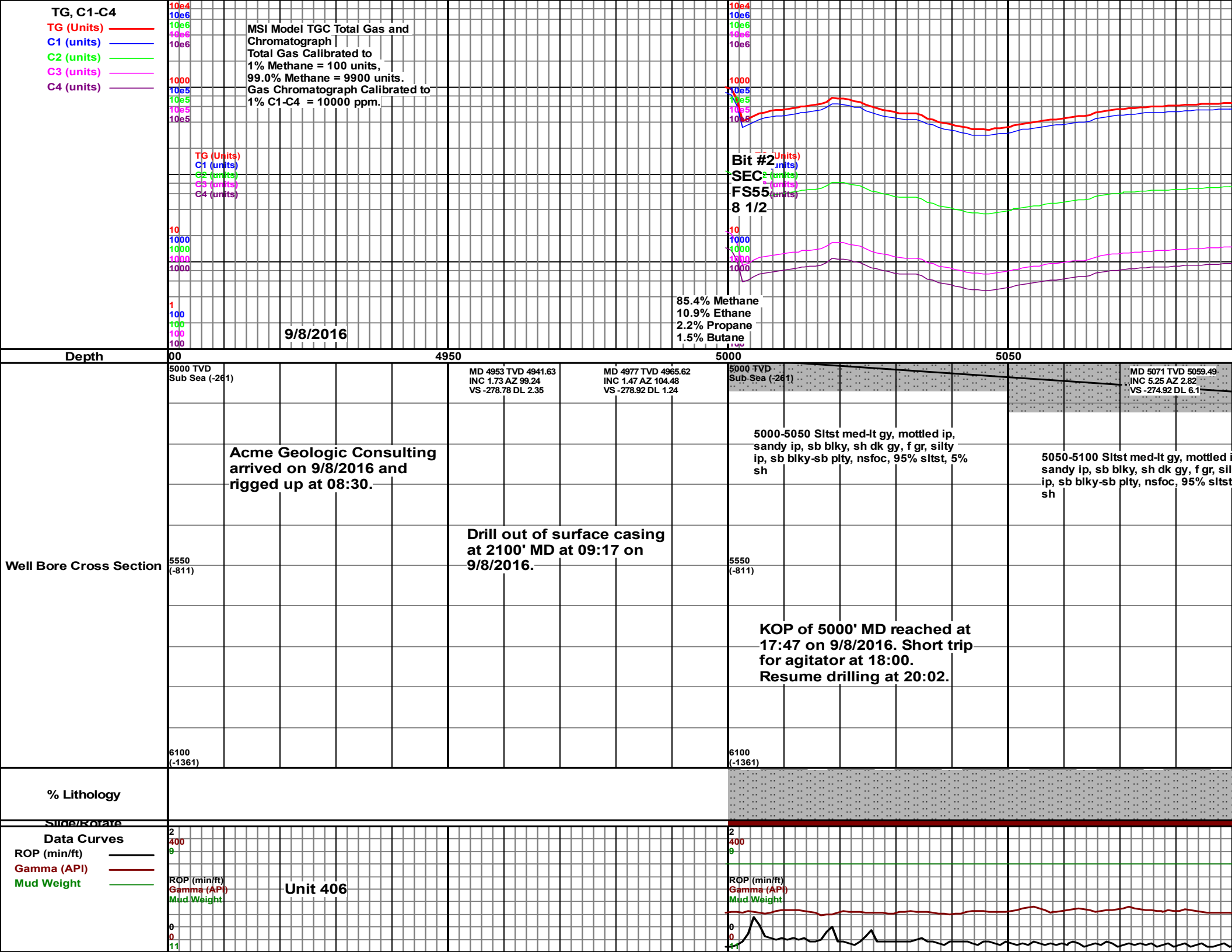
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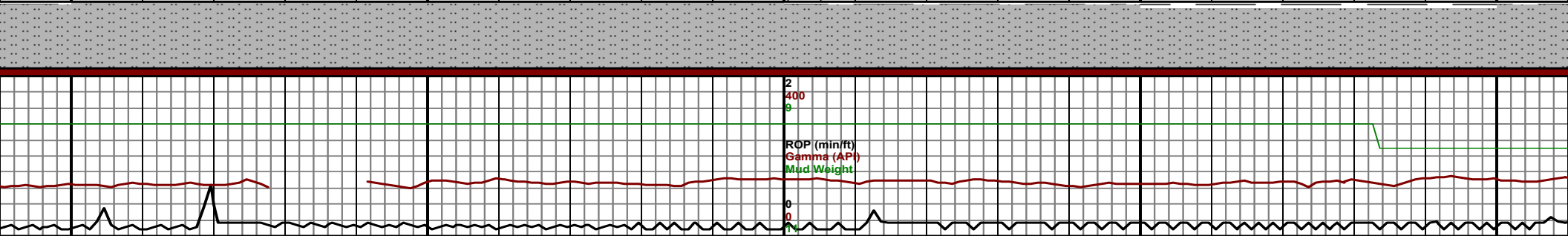
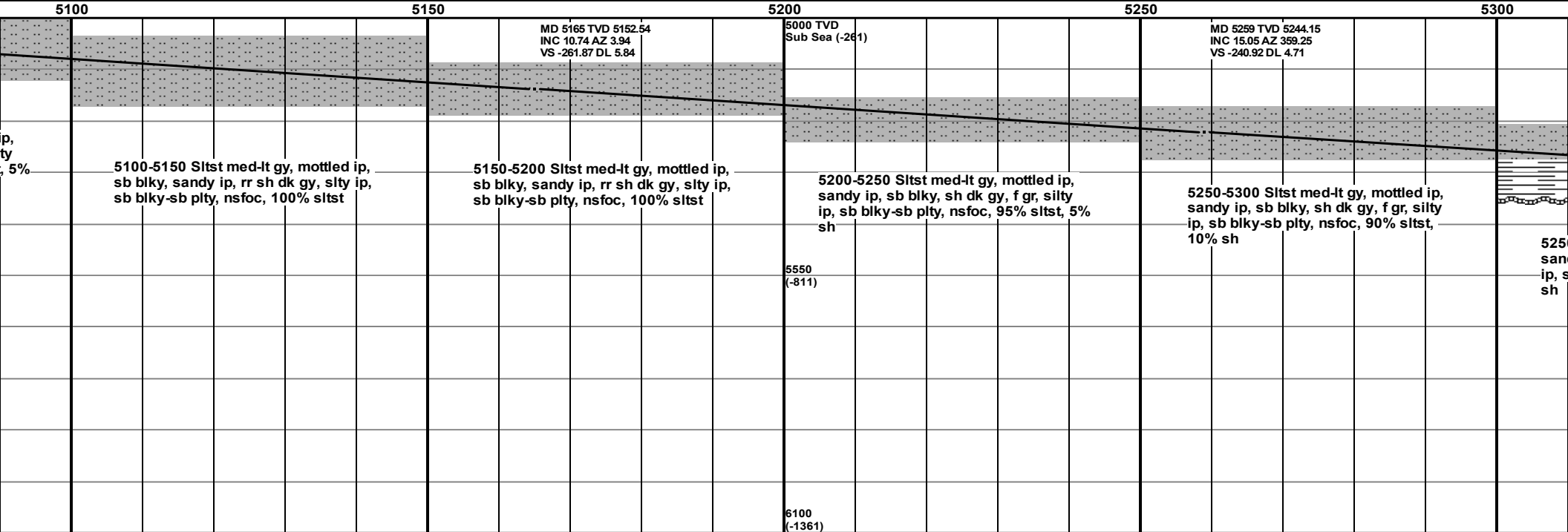
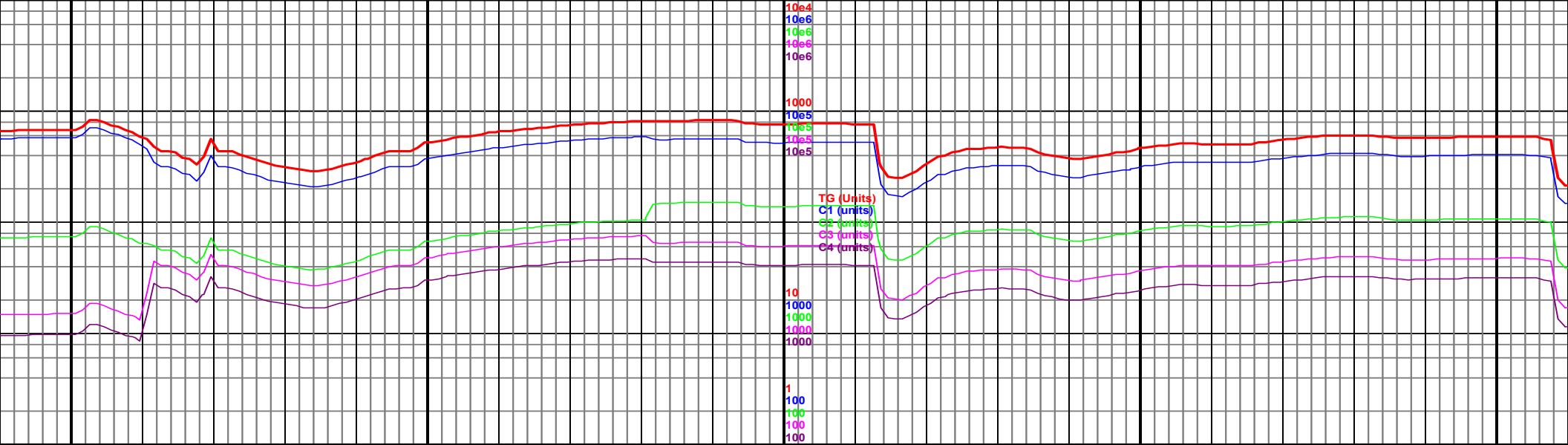


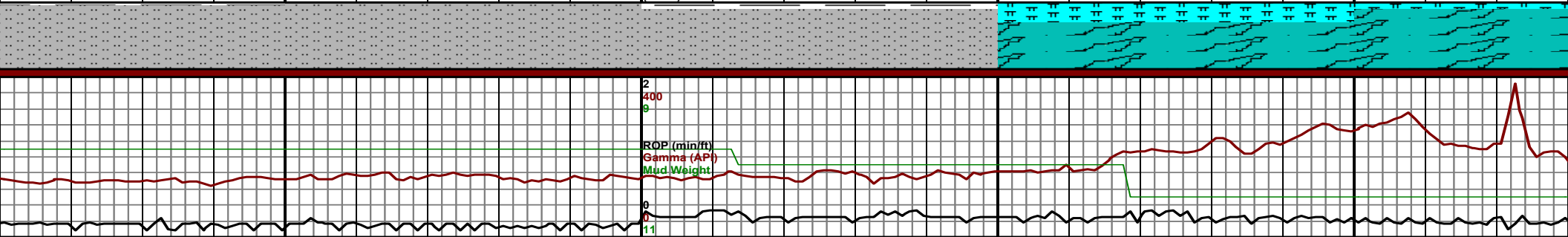
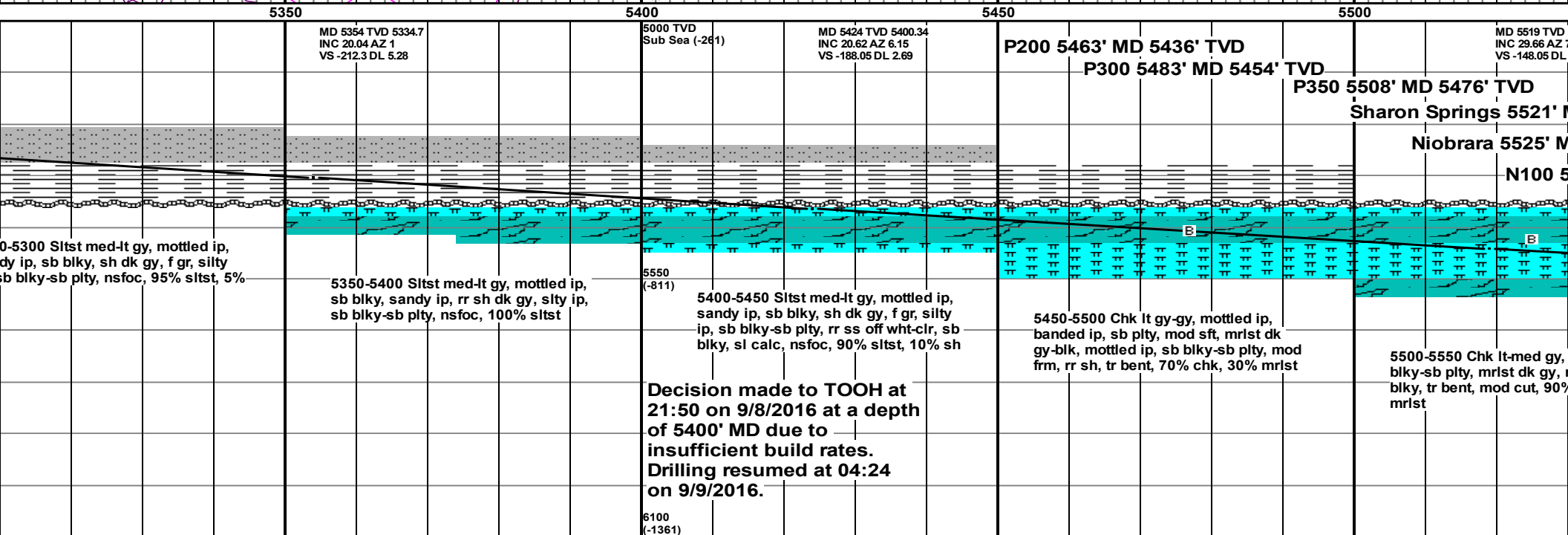
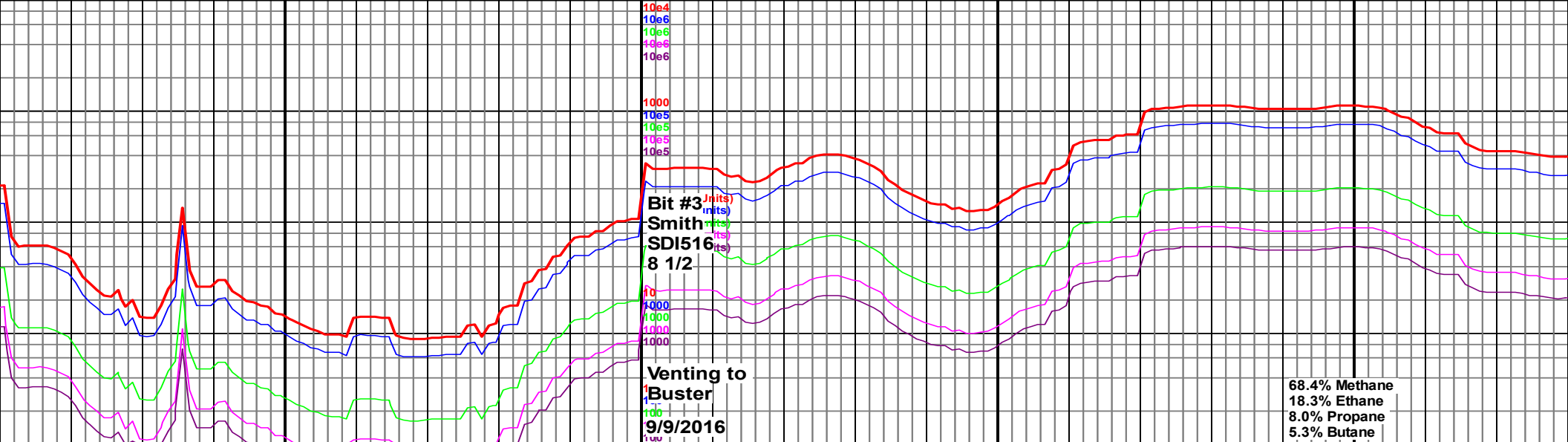
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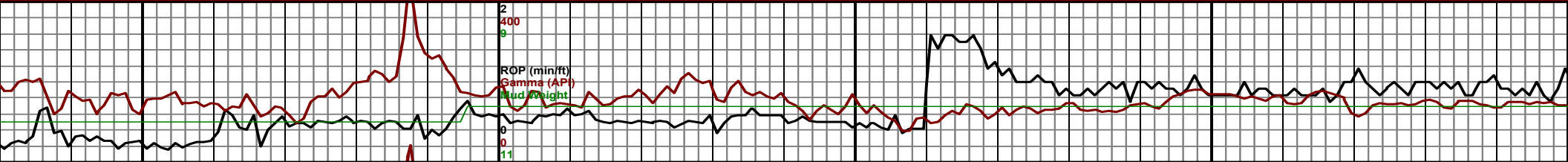
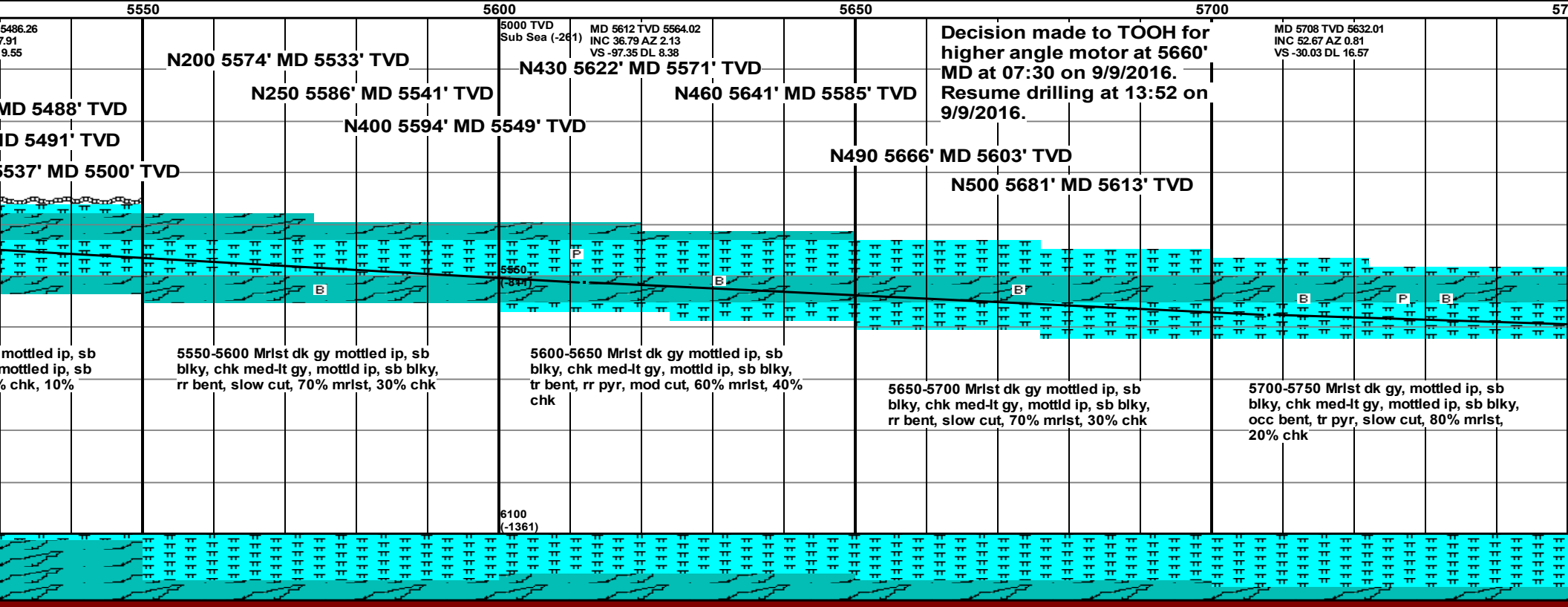
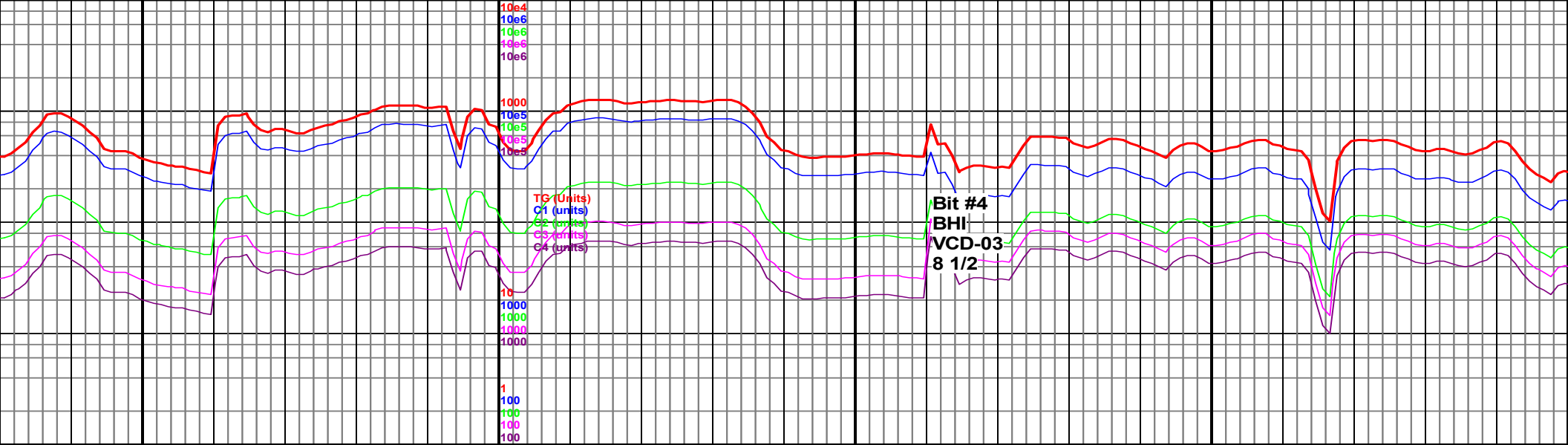


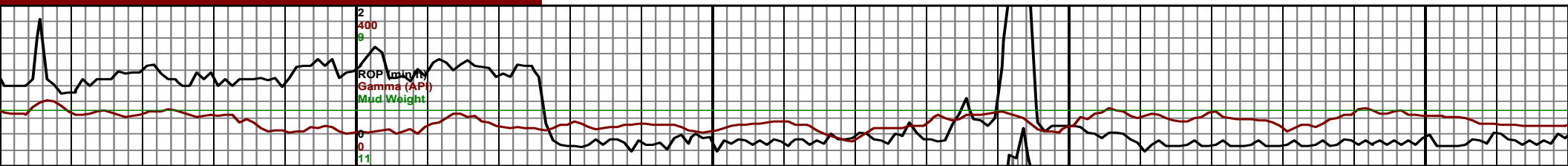
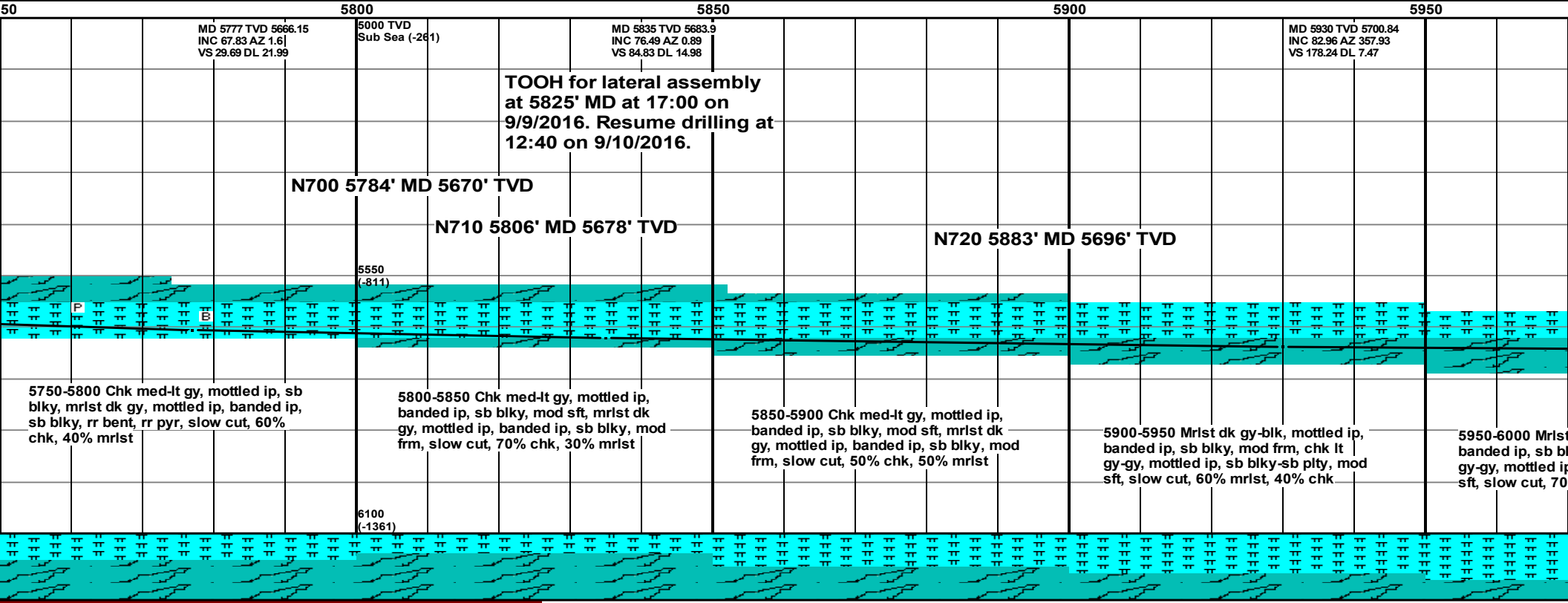
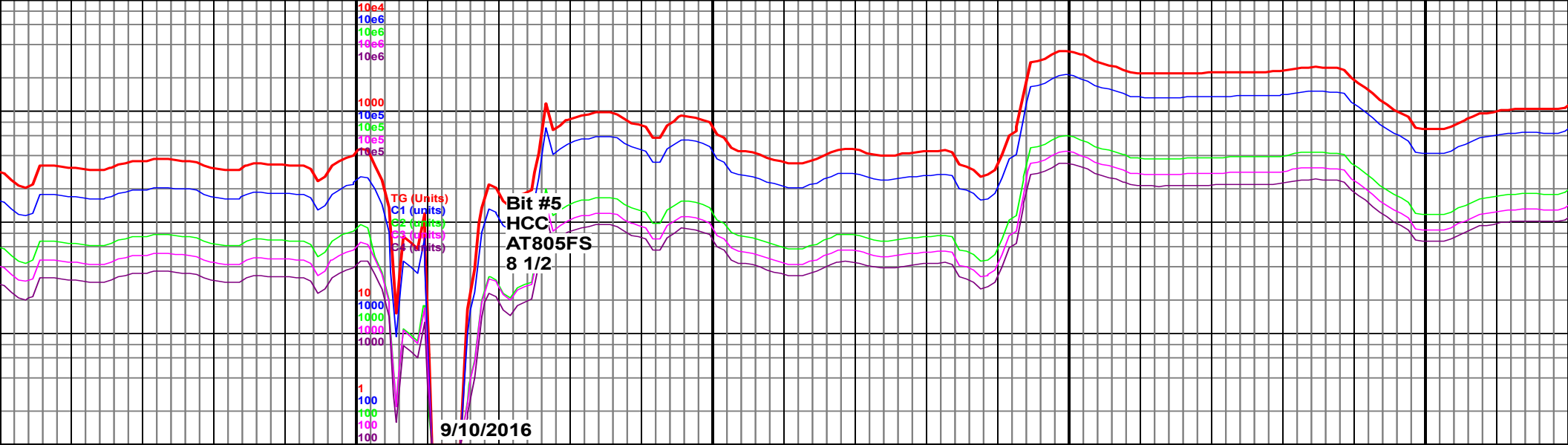
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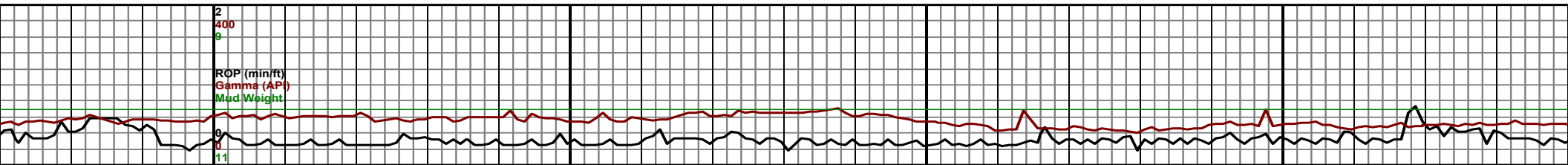
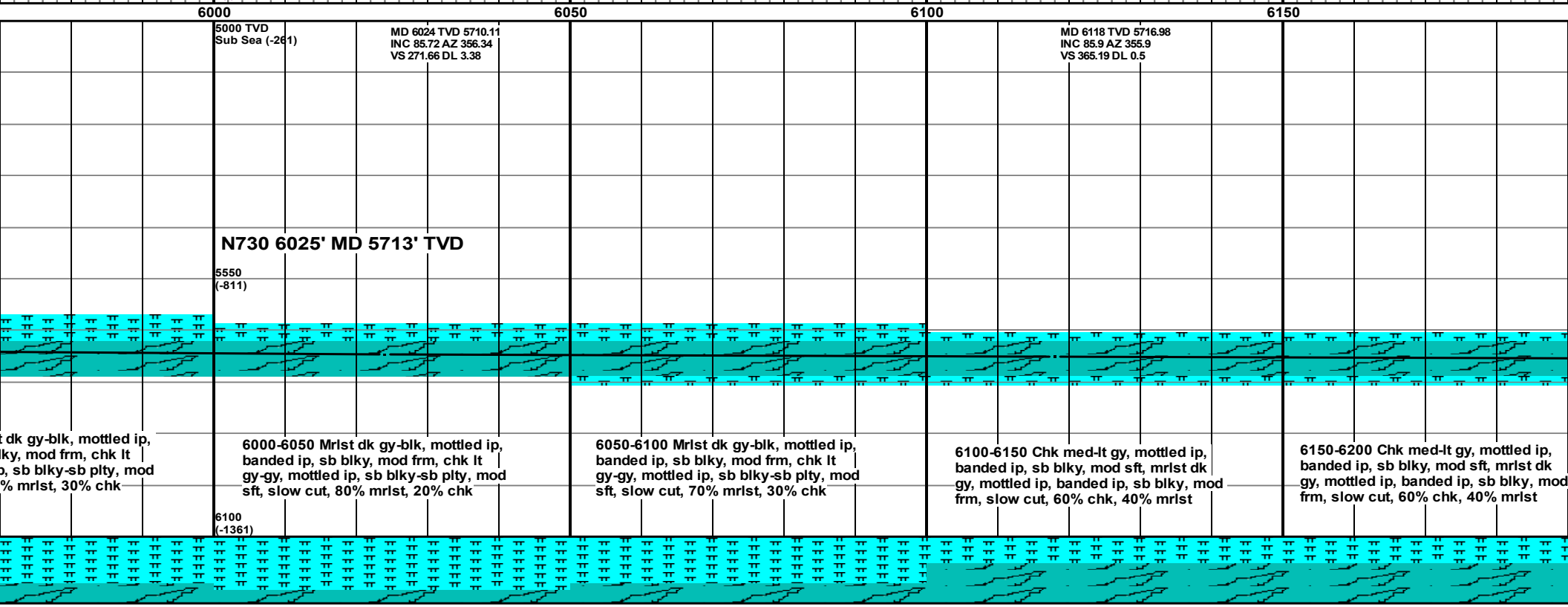
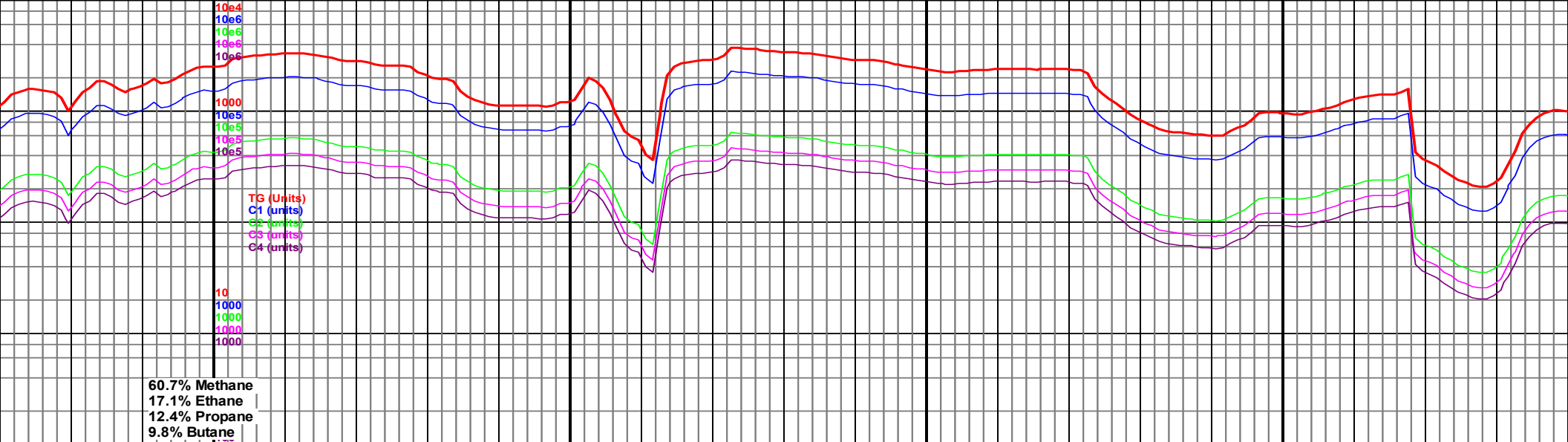


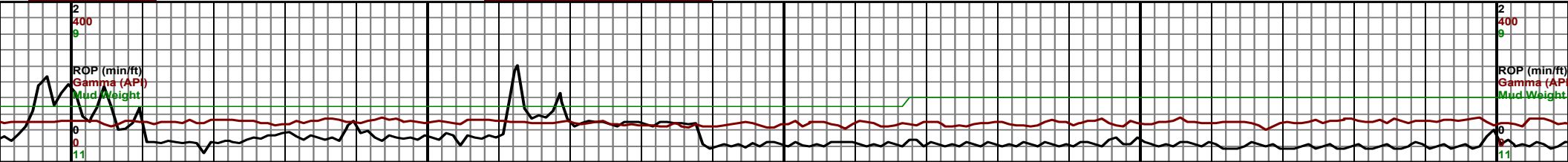
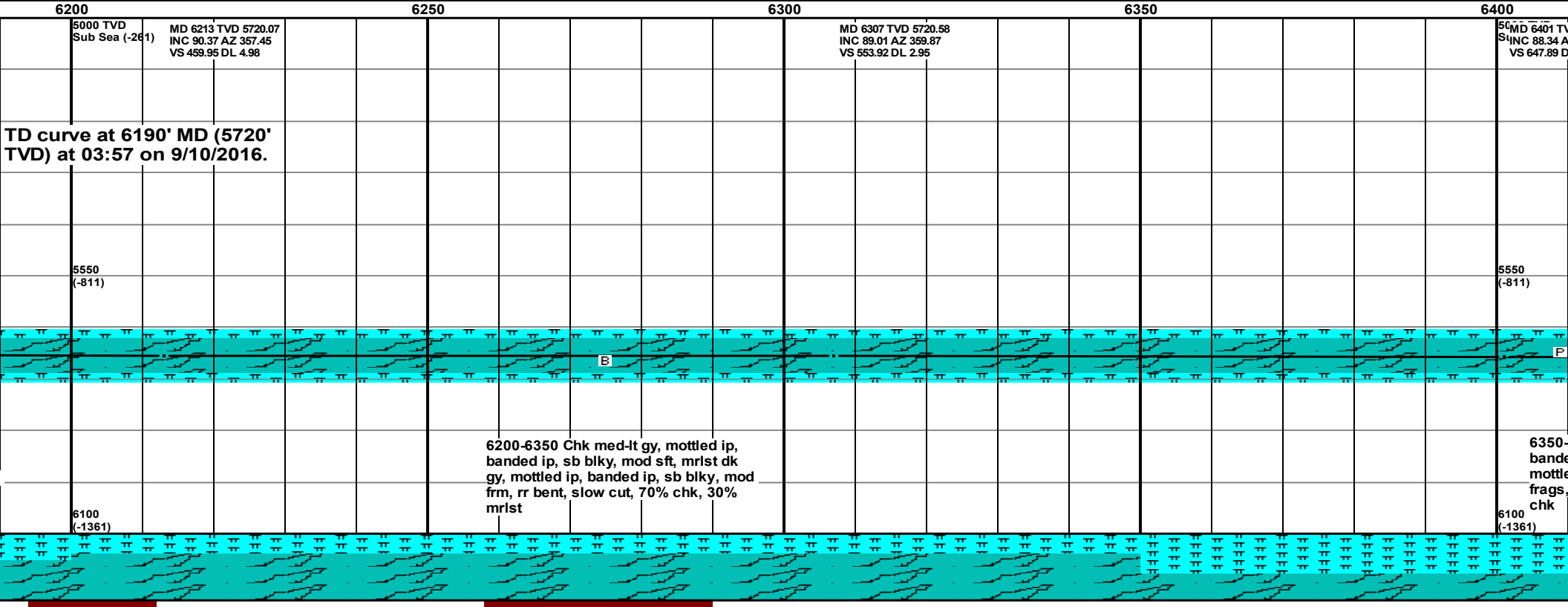
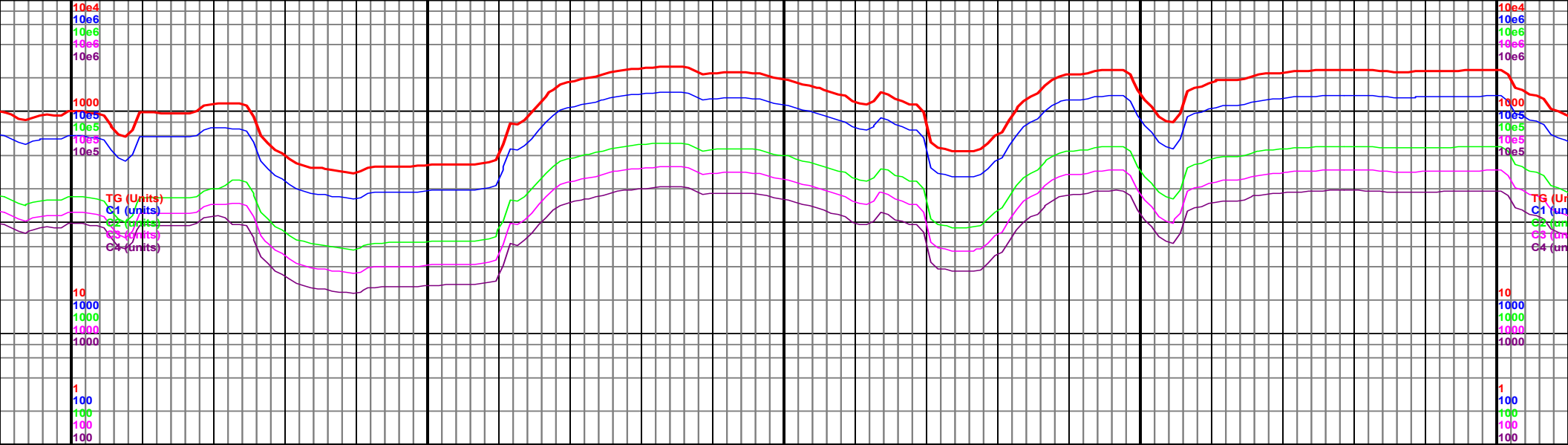


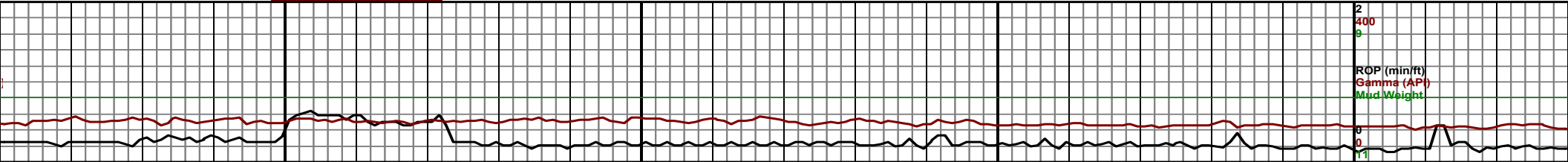
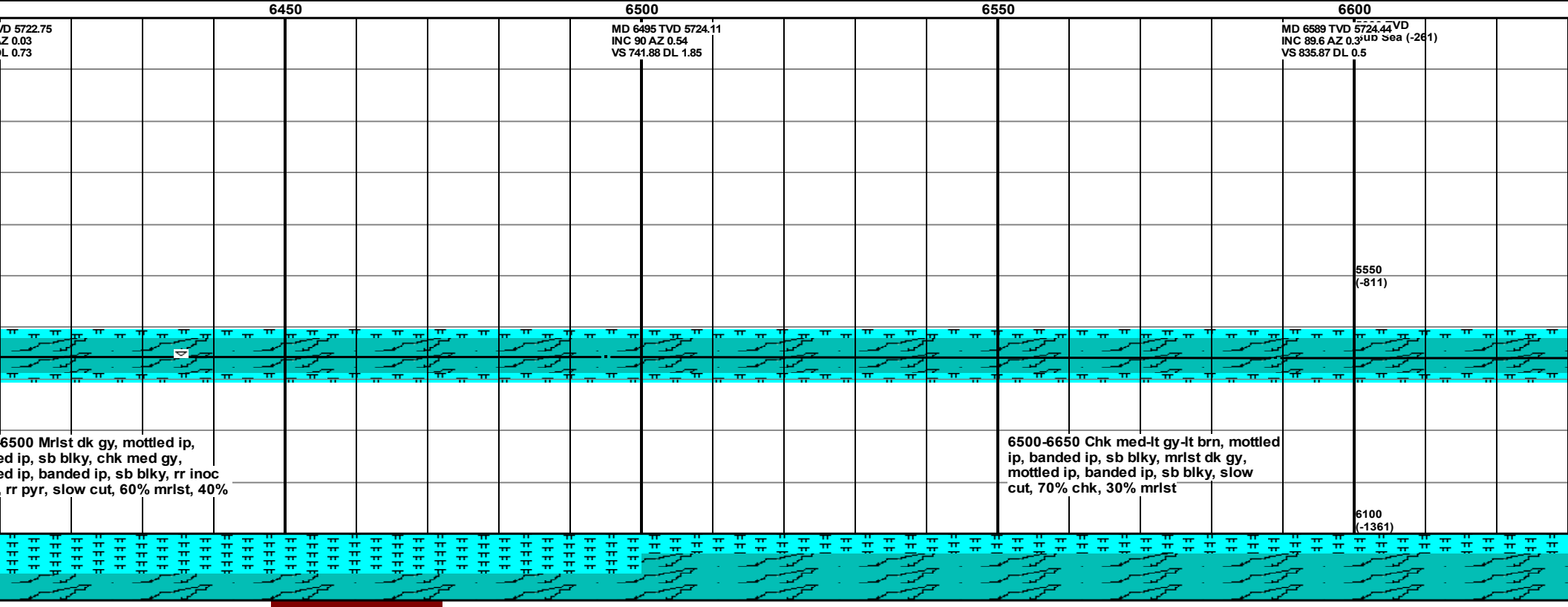
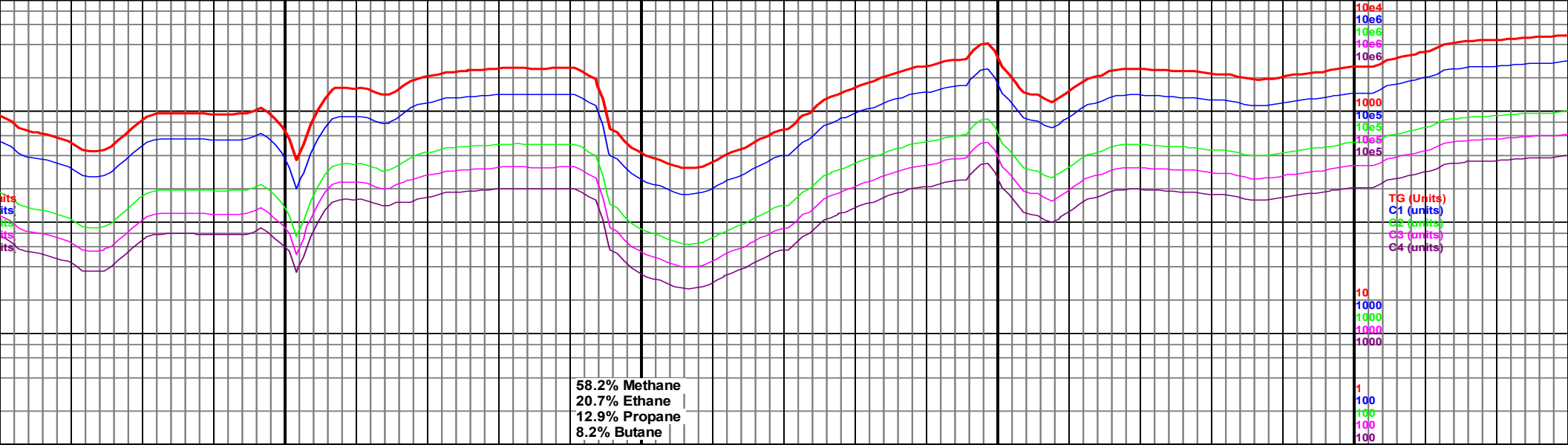


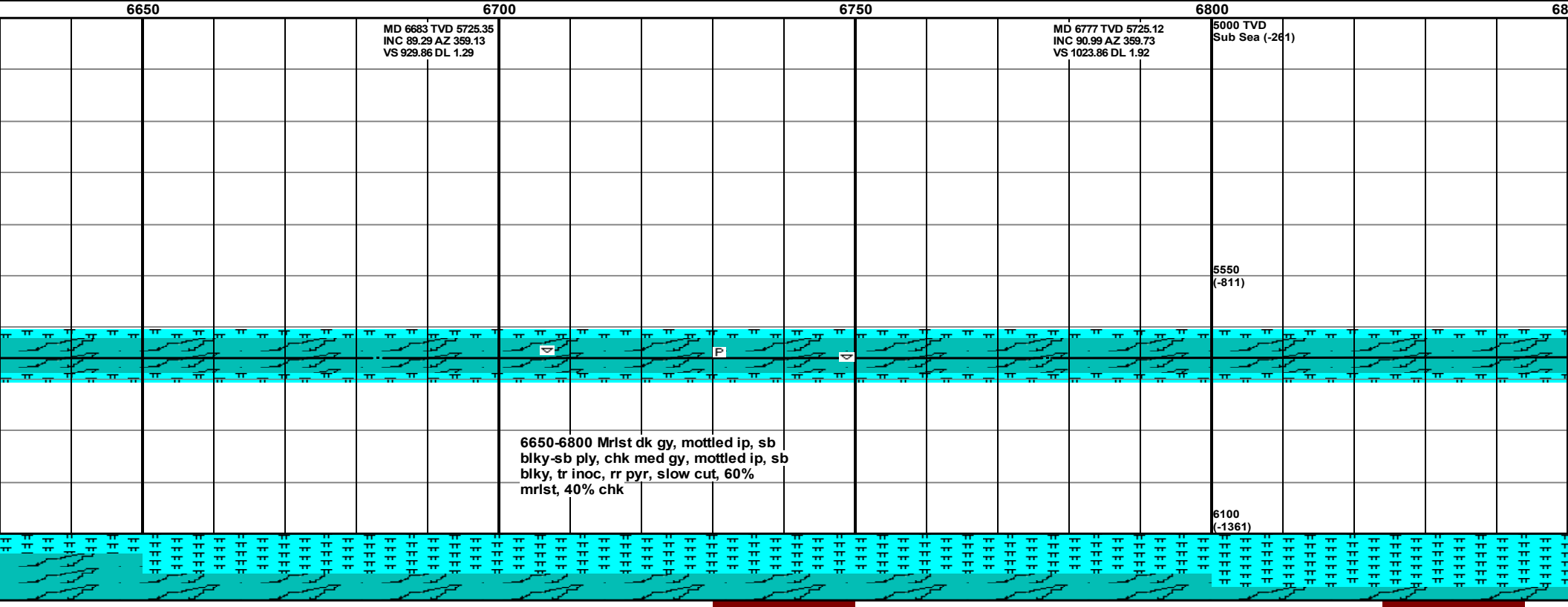
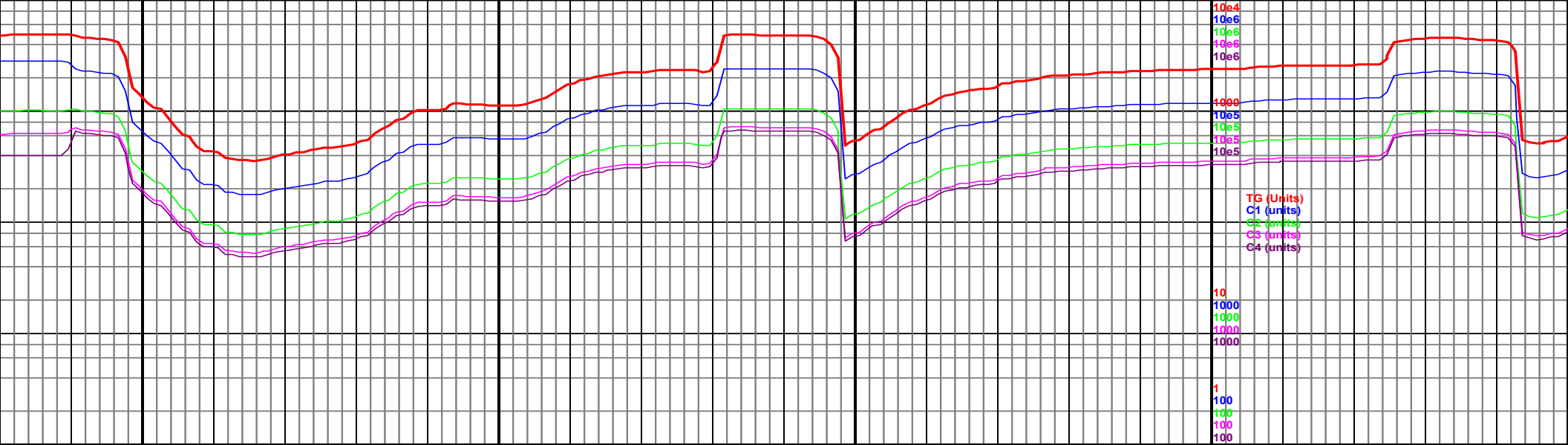




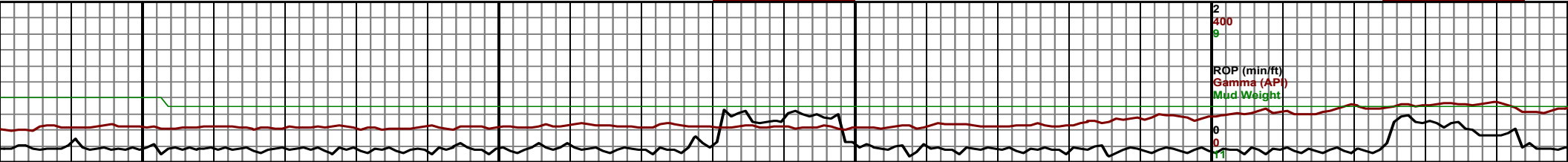


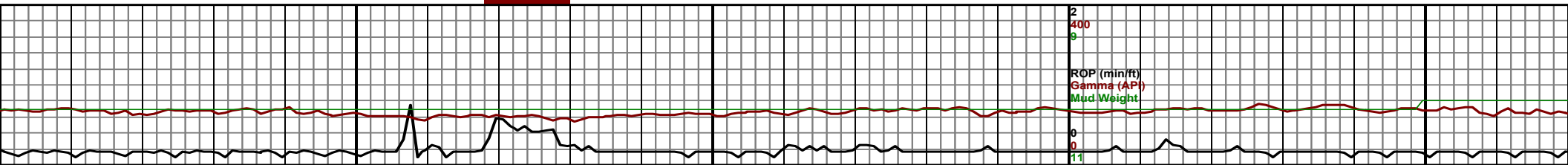
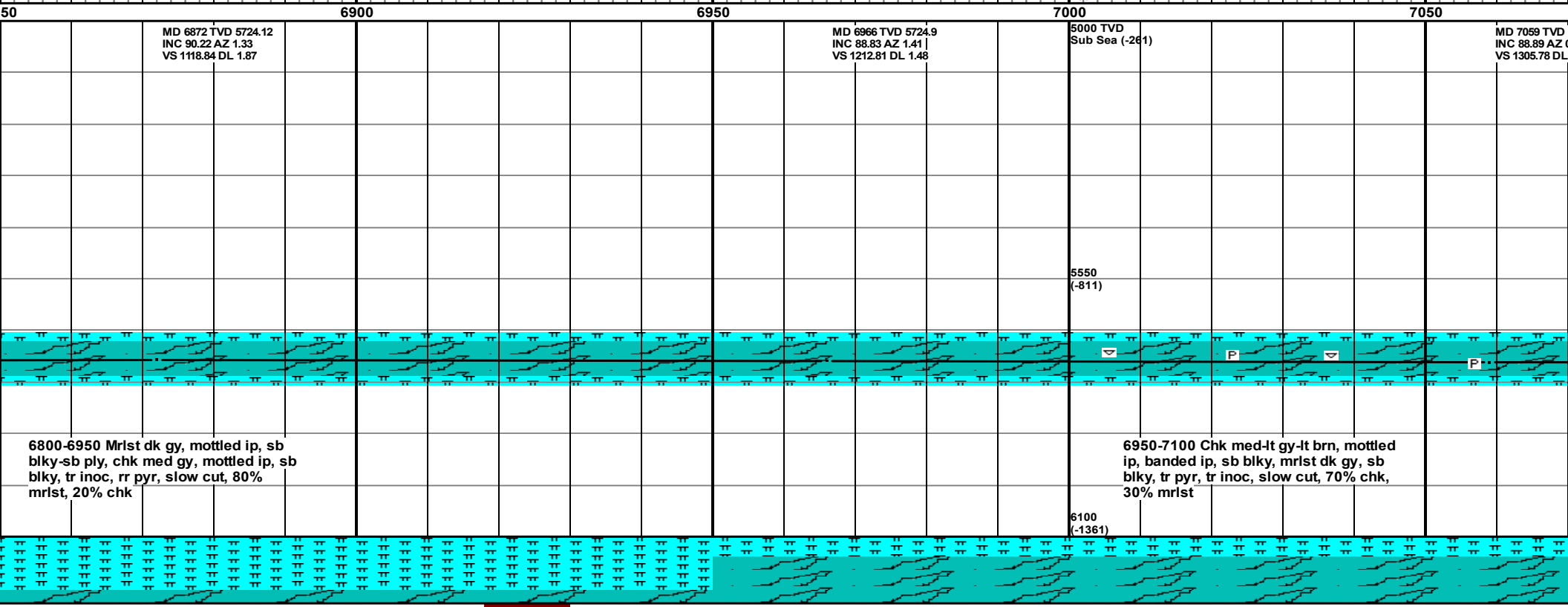
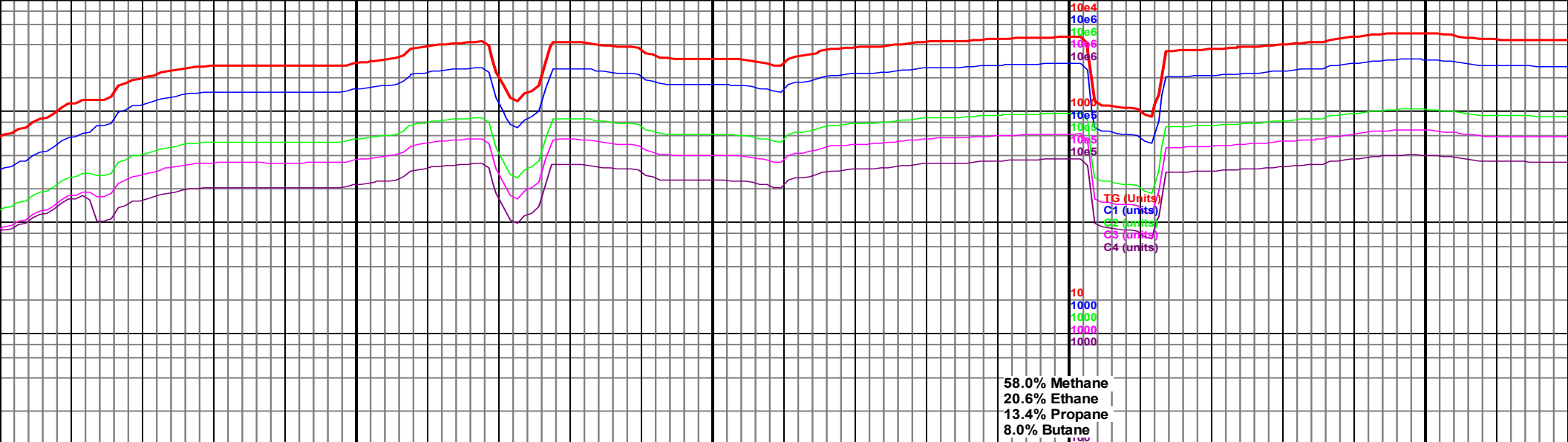


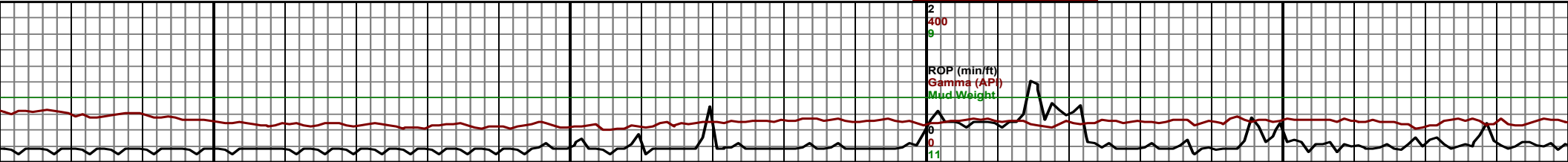
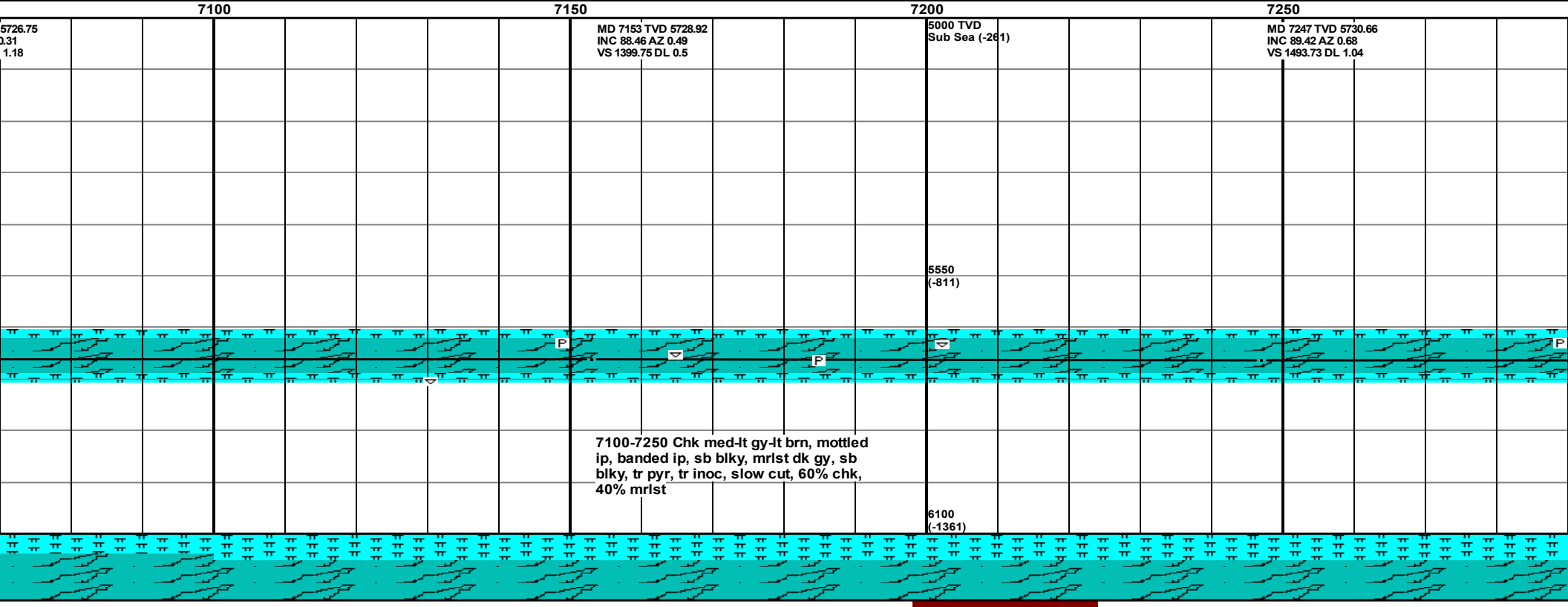
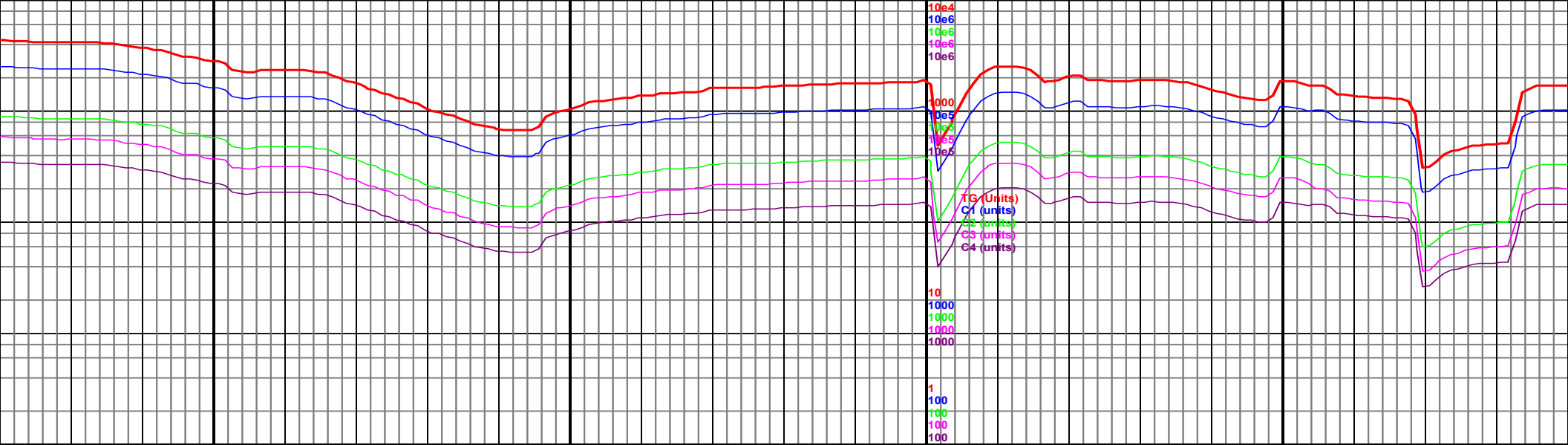


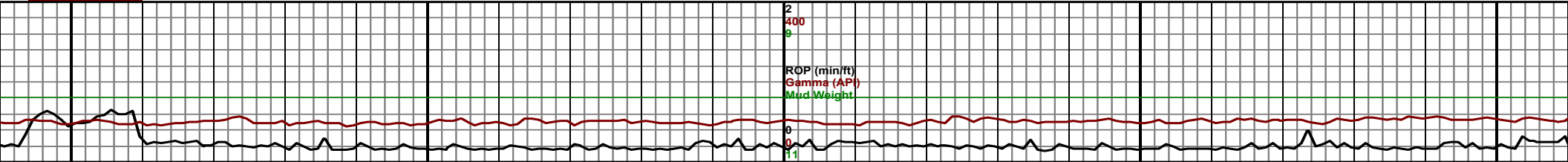
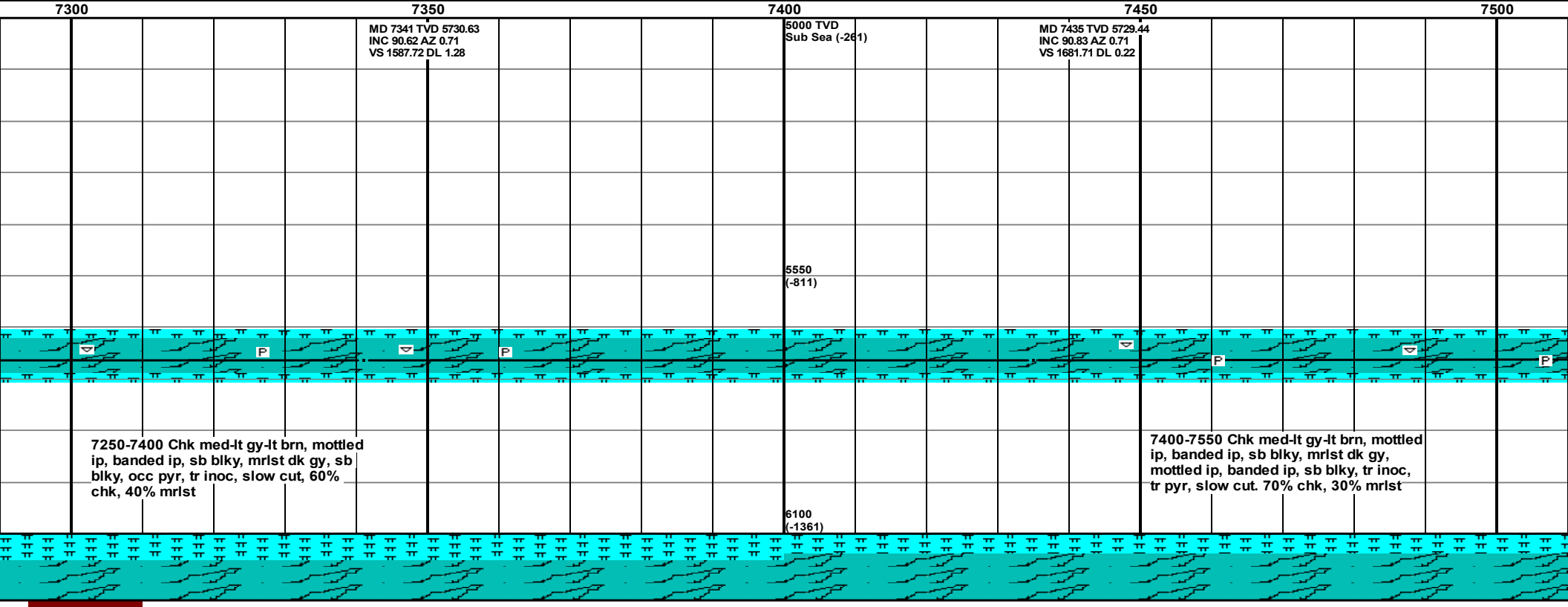
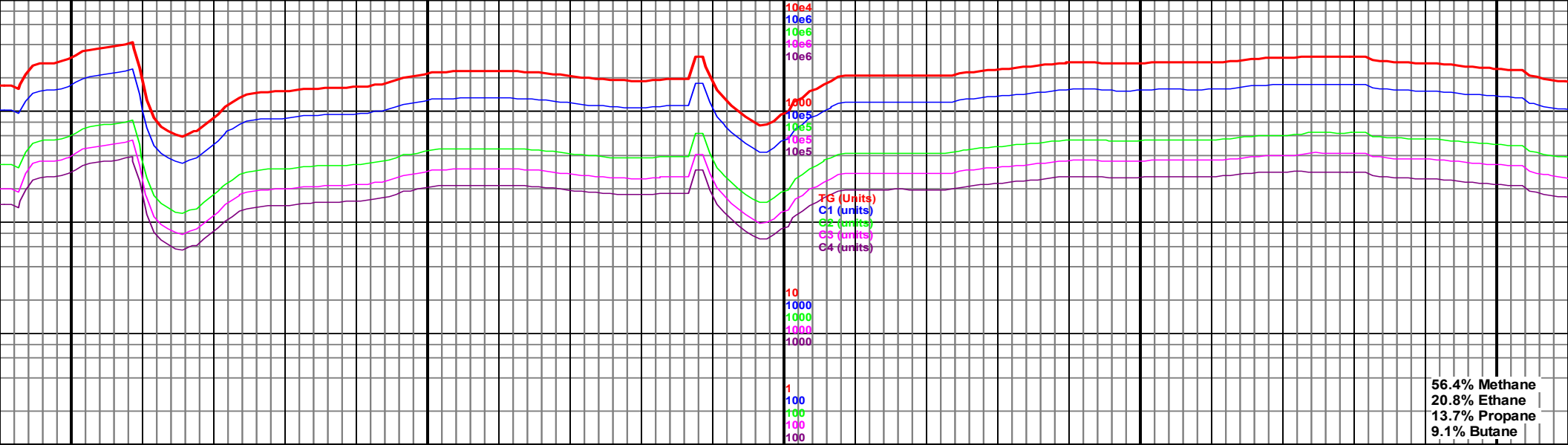


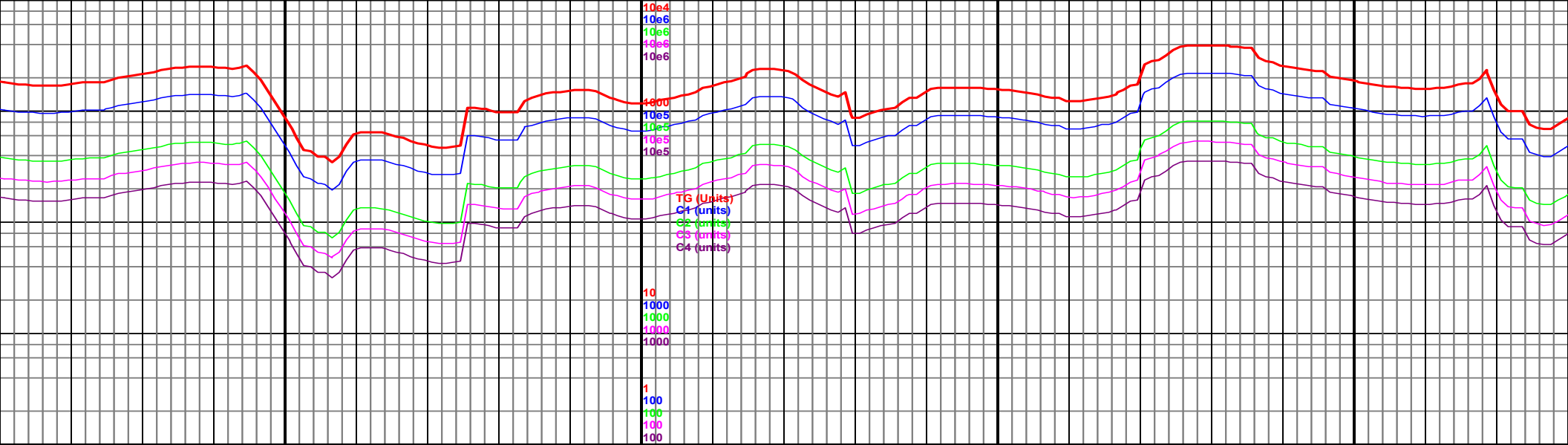
6650-6800 Mrlst dk gy, mottled ip, sb
blky-sb ply, chk med gy, mottled ip, sb
blky, tr inoc, rr pyr, slow cut, 60%
mrlst, 40% chk











MD 7529 TVD 5728.38
INC 90.46 AZ 0.79
VS 1775.69 DL 0.4

5000 TVD
Sub Sea (-261)

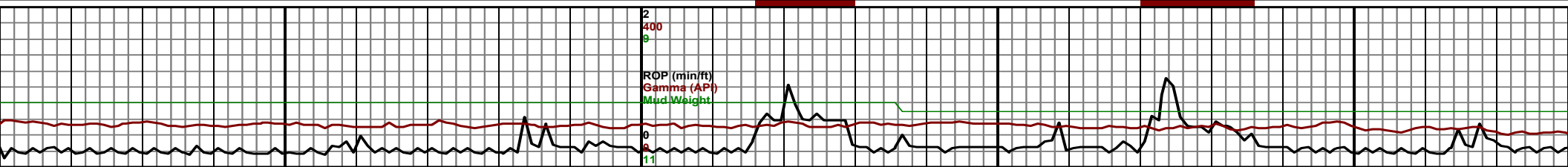
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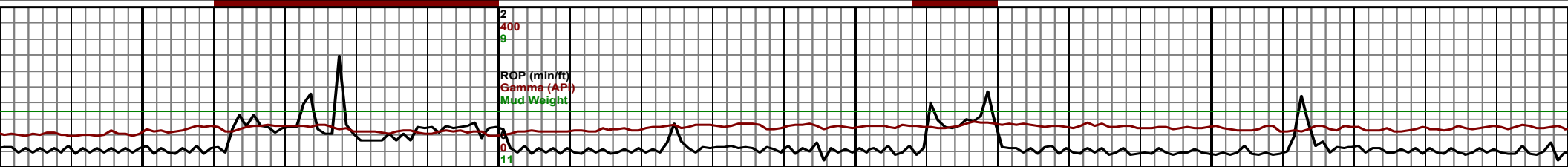
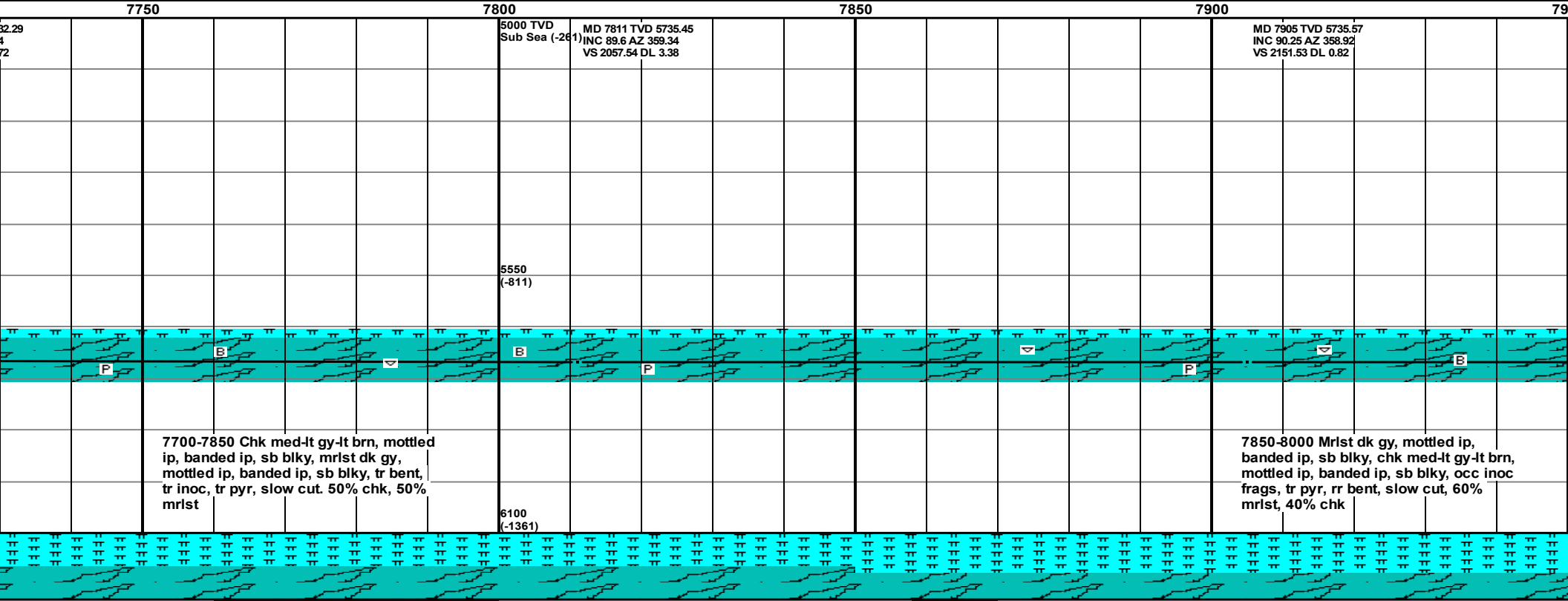
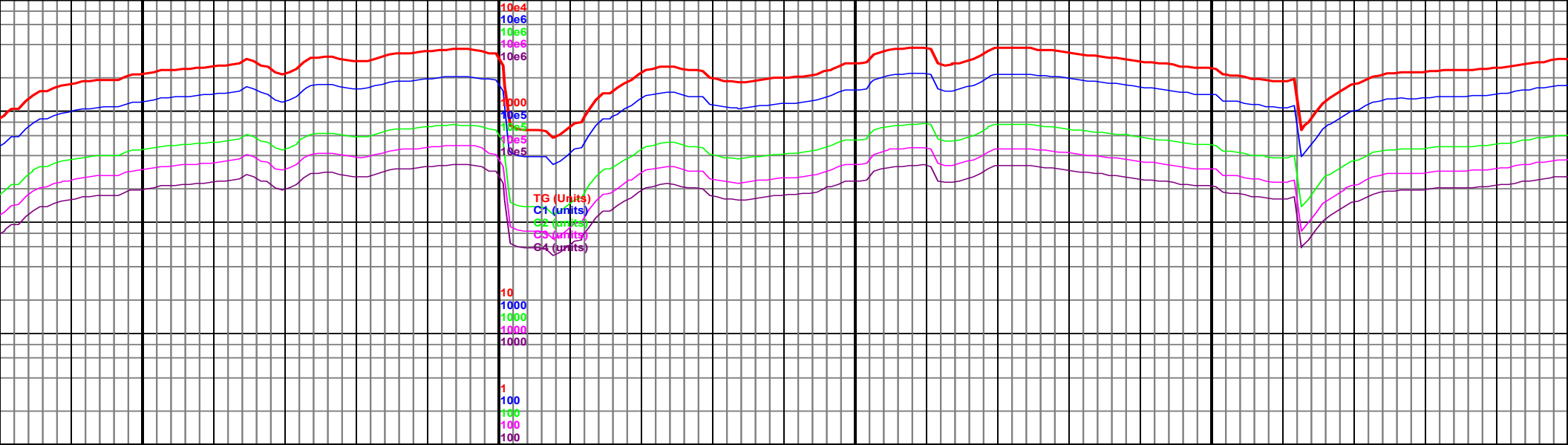
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INC 86.55 AZ 0.27
VS 1963.61 DL 2.7

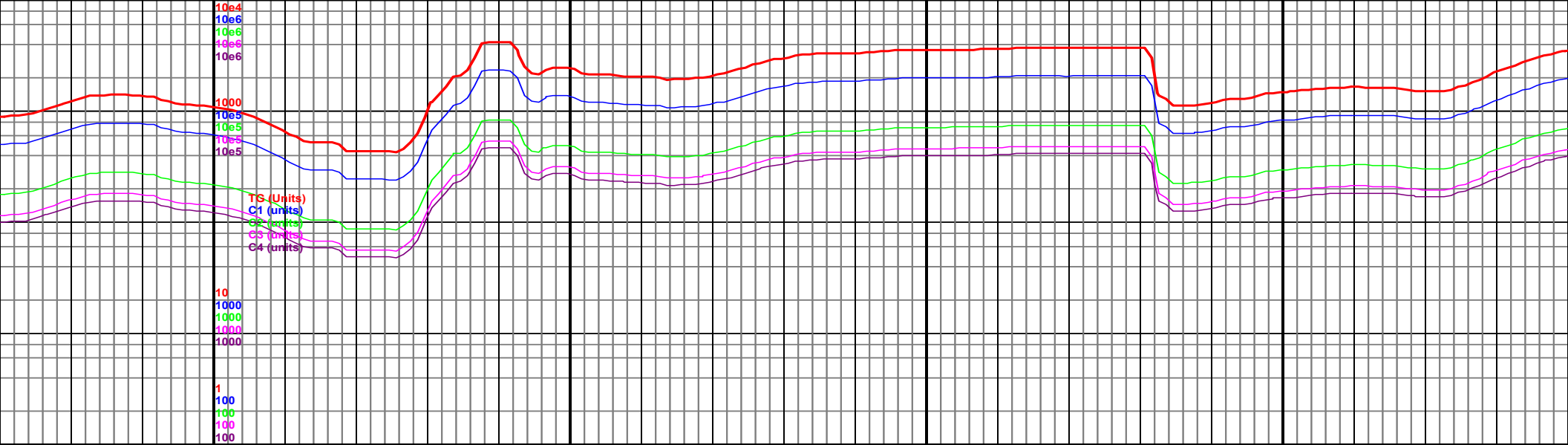
5550
(-811)

7550-7700 Chk med-lt gy-lt brn, mottled
ip, banded ip, sb blk, mrlst dk gy,
mottled ip, banded ip, sb blk, tr inoc,
tr pyr, slow cut. 60% chk, 40% mrlst

6100
(-1361)







MD 8189 TVD 5733.69
INC 91.72 AZ 0.25 Sea (-261)
VS 2435.47 DL 1.41

MD 8283 TVD 5732
INC 90.34 AZ 359.6
VS 2529.45 DL 1.62

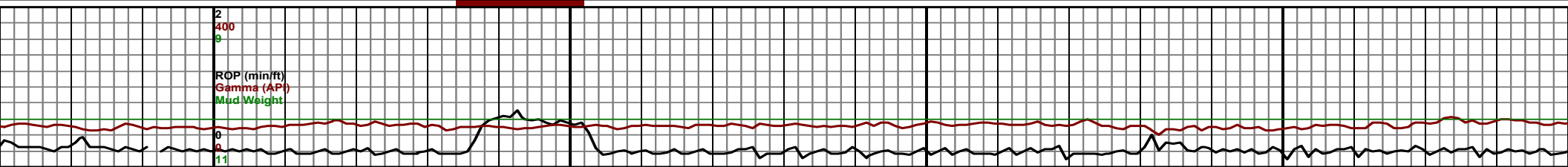
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INC 89.91 AZ 359.6
VS 2624.45 DL 1.62

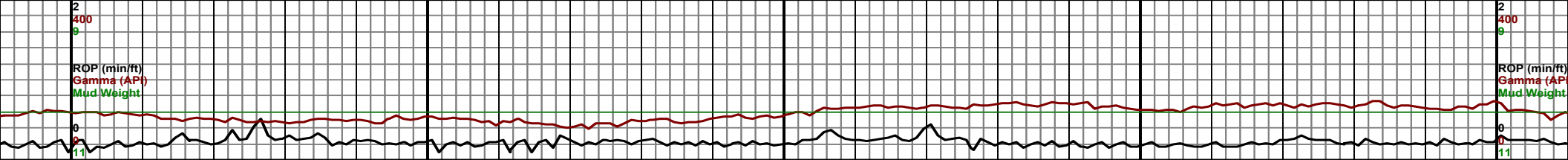
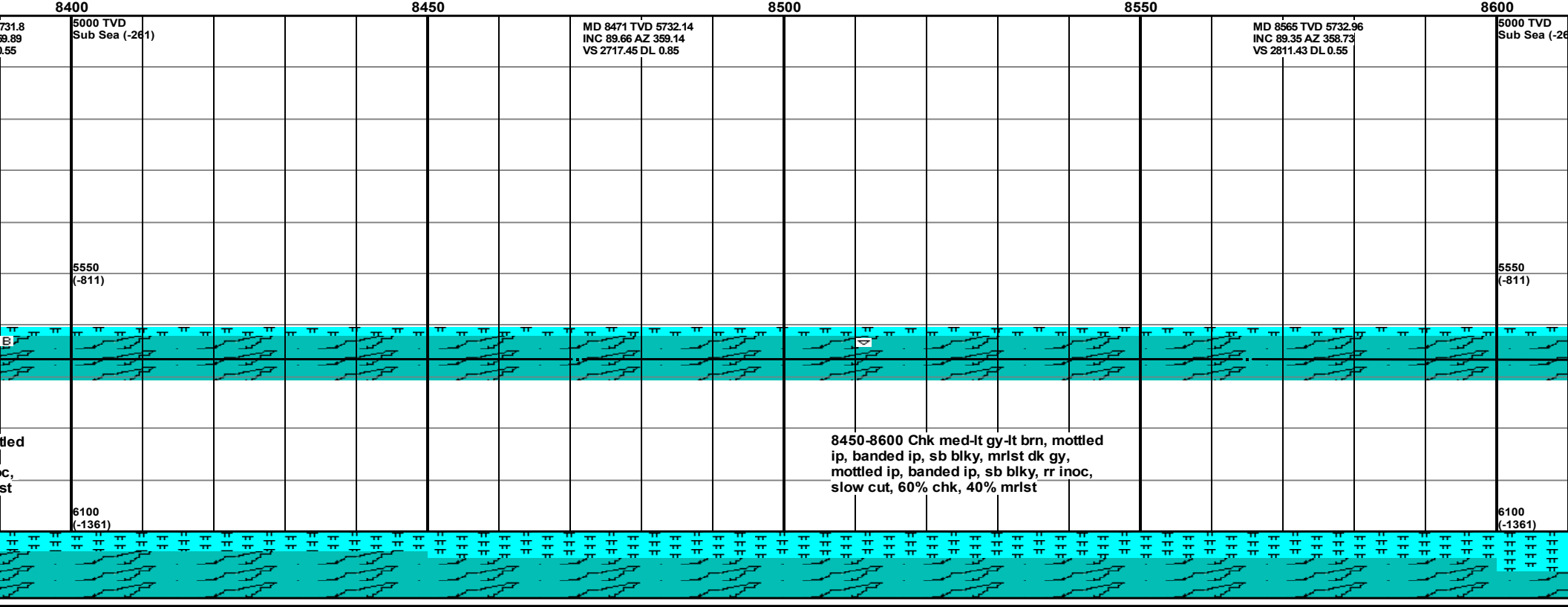
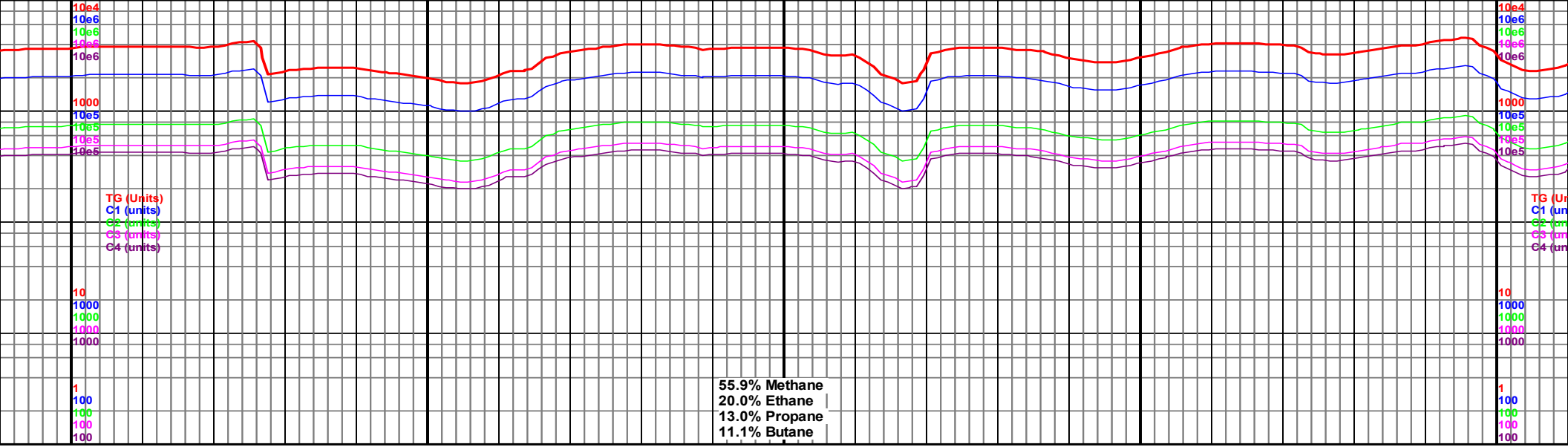
5550
(-811)

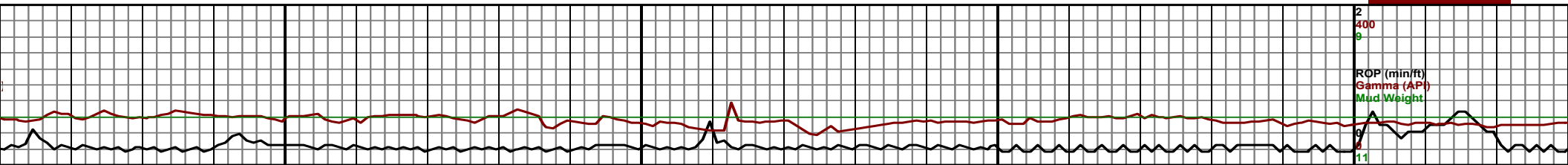
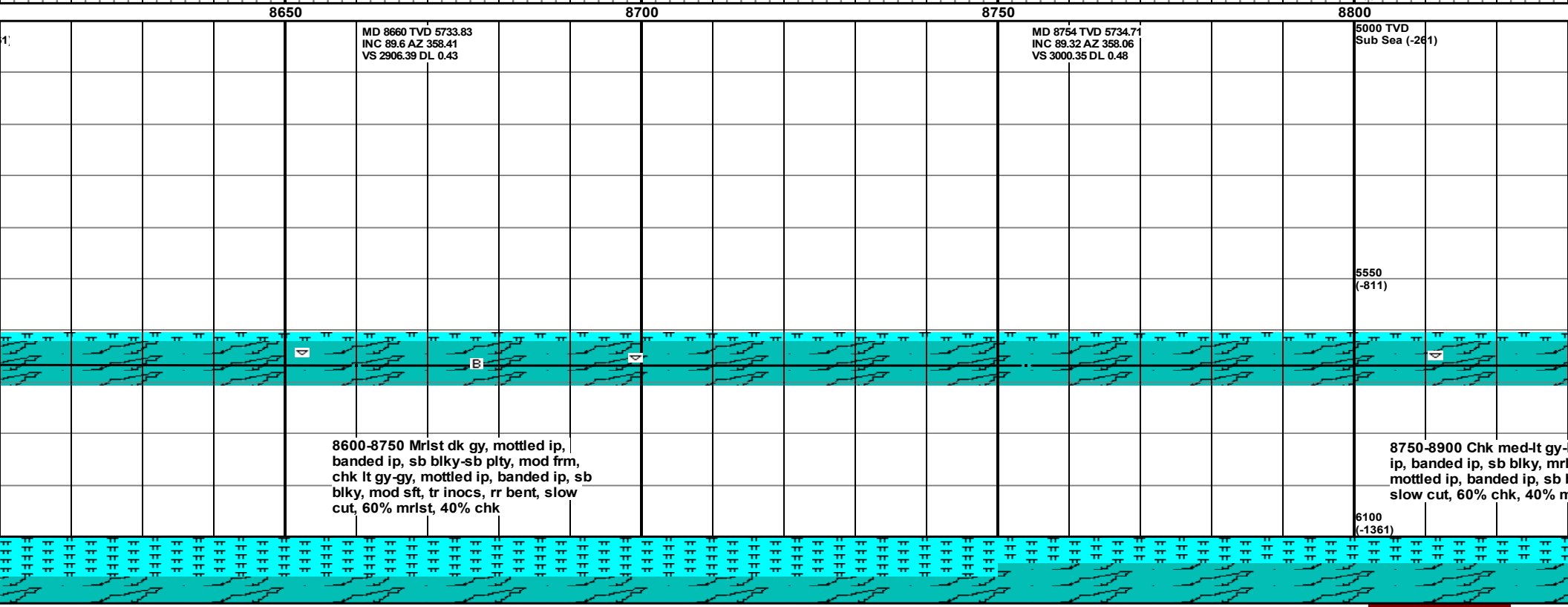
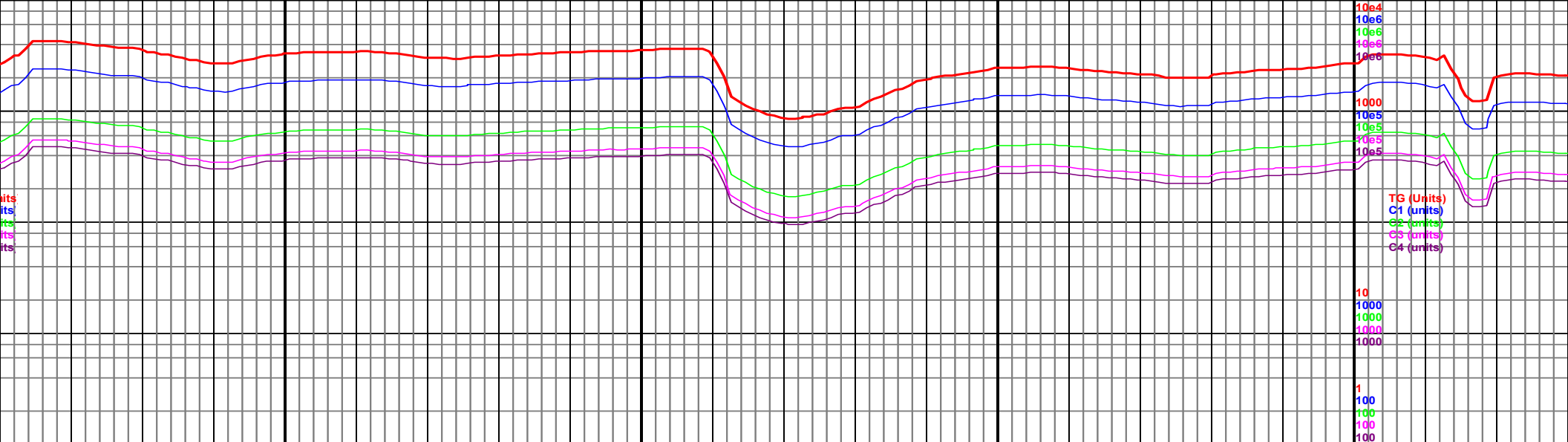
8150-8300 Chk med-lt gy-lt brn, mottled
ip, banded ip, sb blk, mrlst dk gy,
mottled ip, banded ip, sb blk, tr inoc,
rr bent slow cut, 60% chk, 40% mrlst

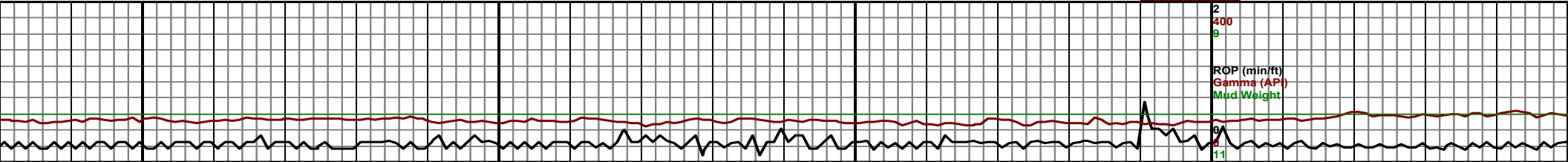
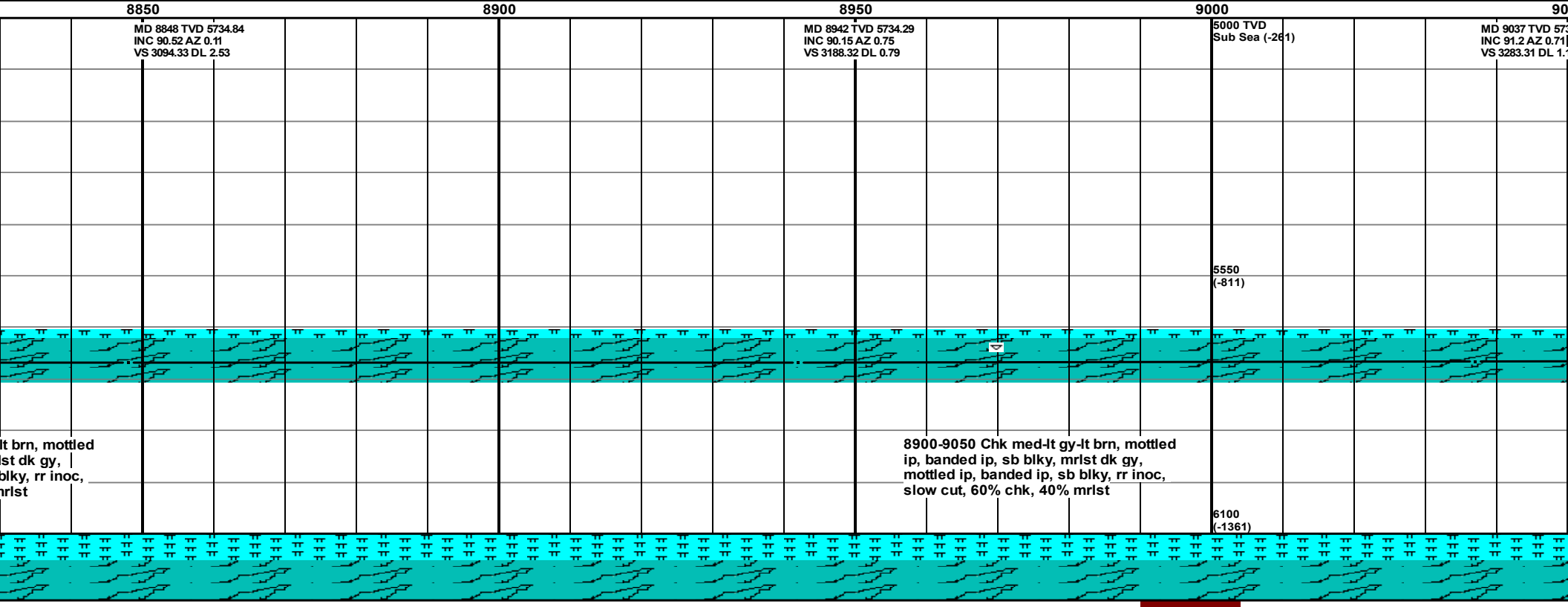
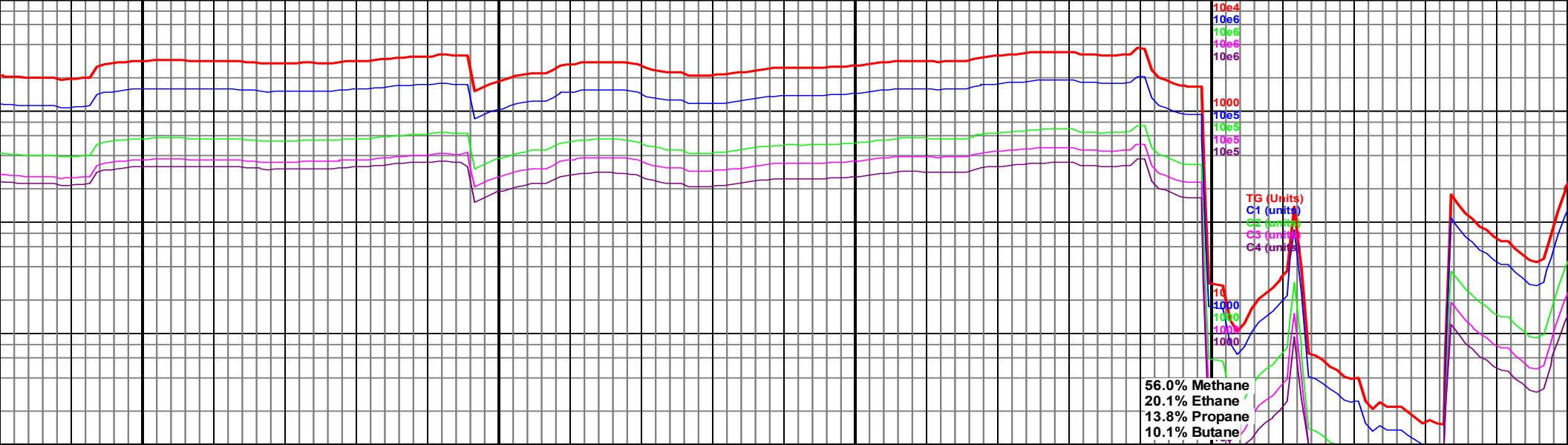
8300-8450 Chk med-lt gy-lt brn, mottled
ip, banded ip, sb blk, mrlst dk gy,
mottled ip, banded ip, sb blk, rr inoc,
rr bent, slow cut, 70% chk, 30% mrlst

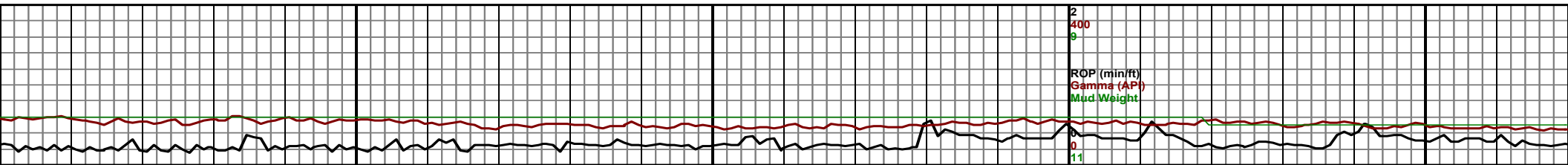
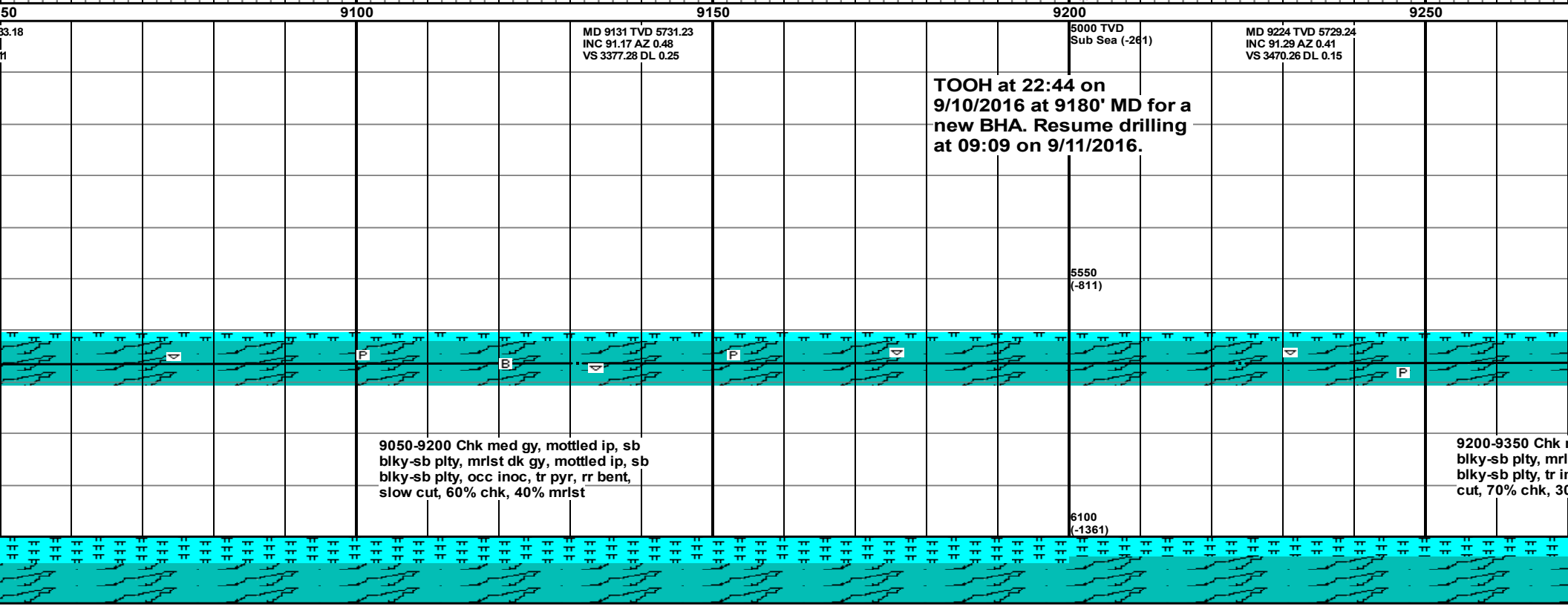
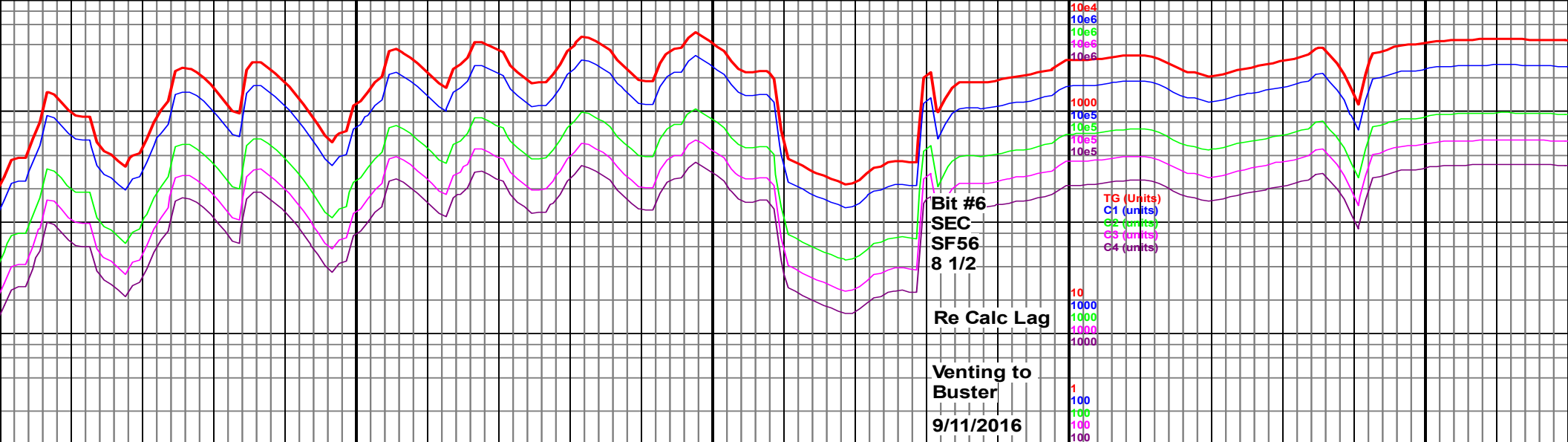
6100
(-1361)

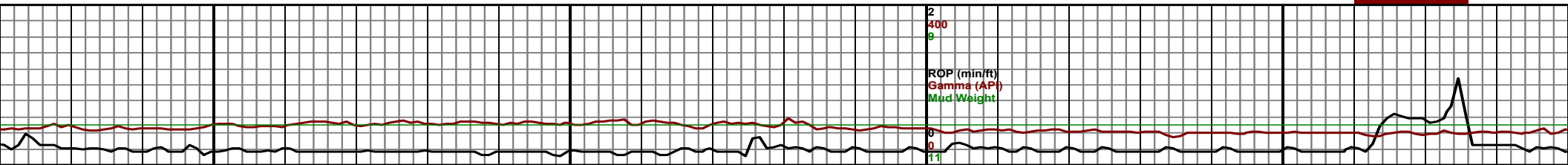
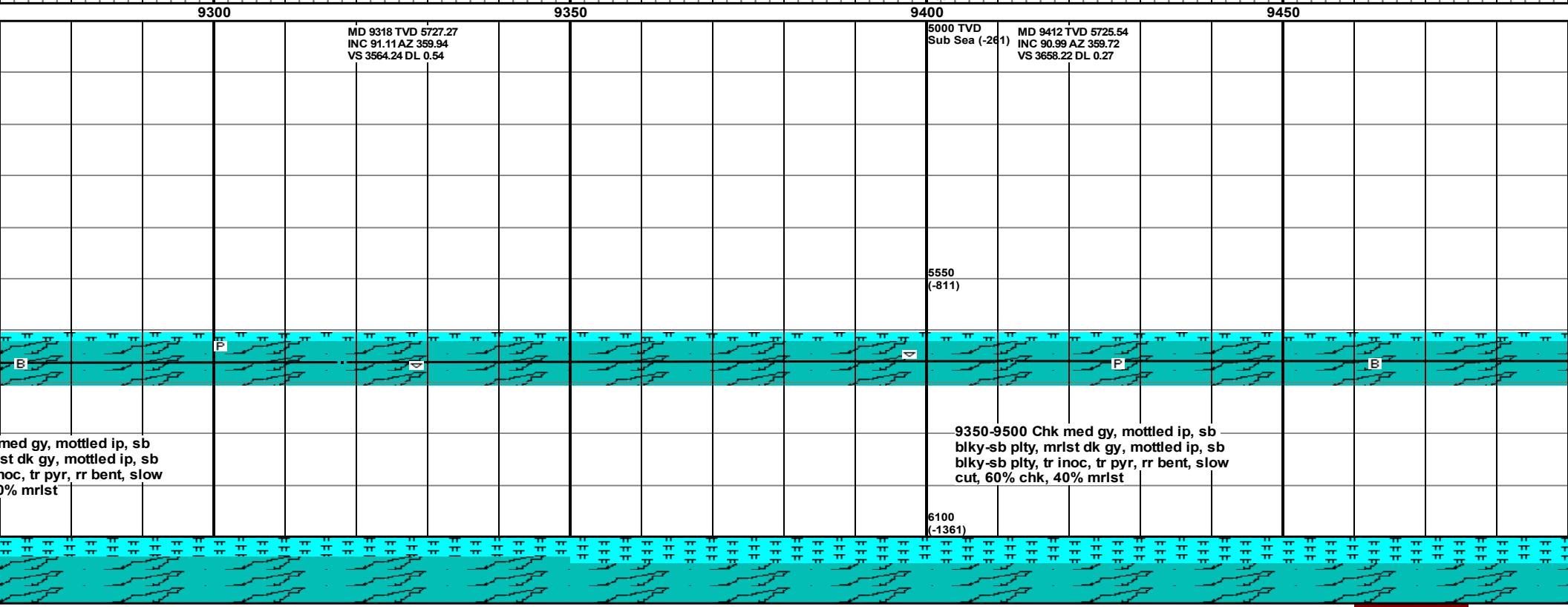
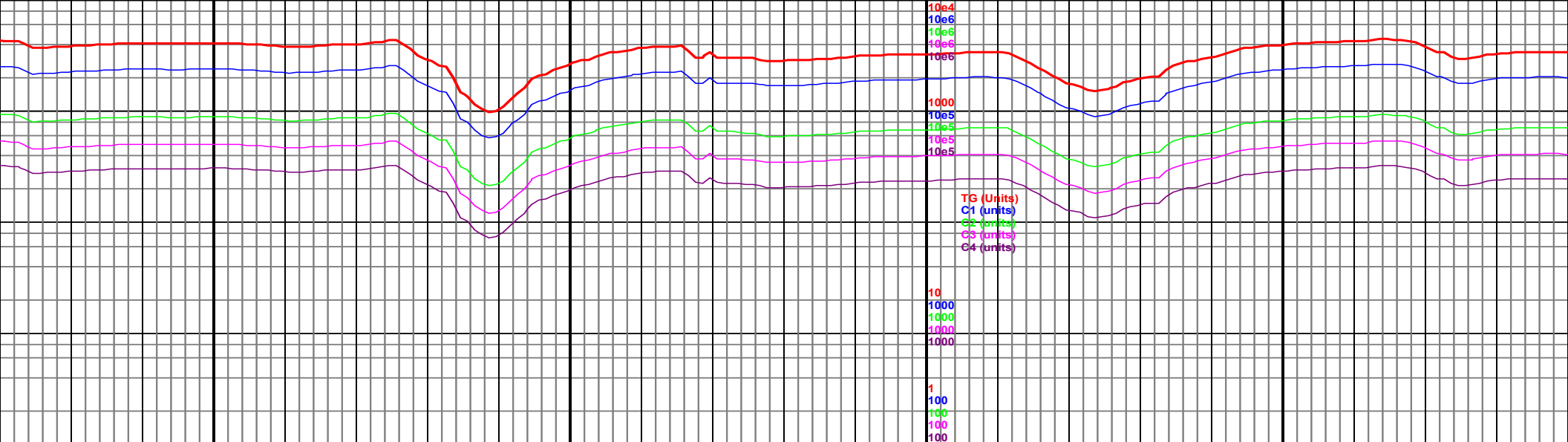


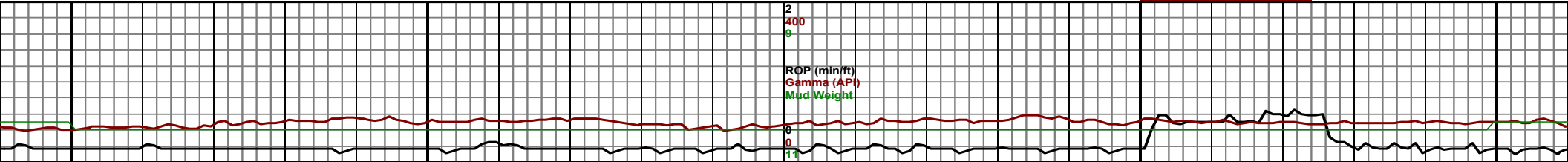
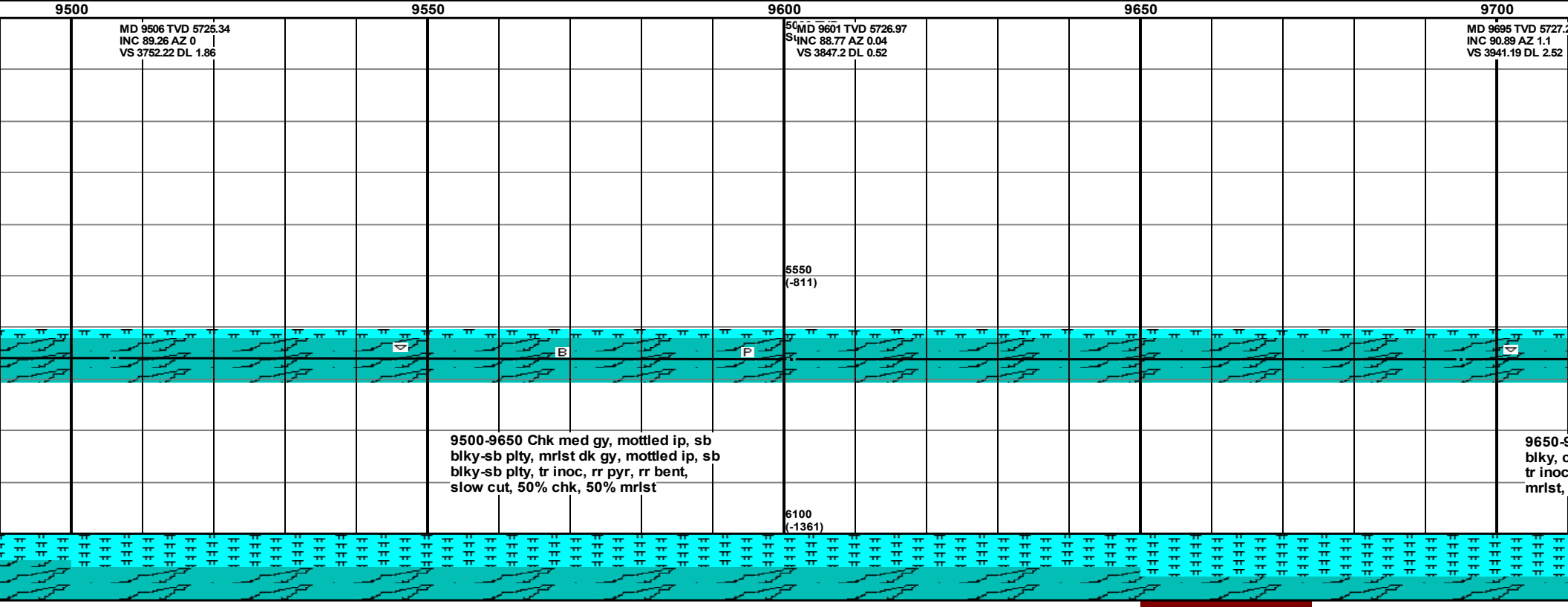
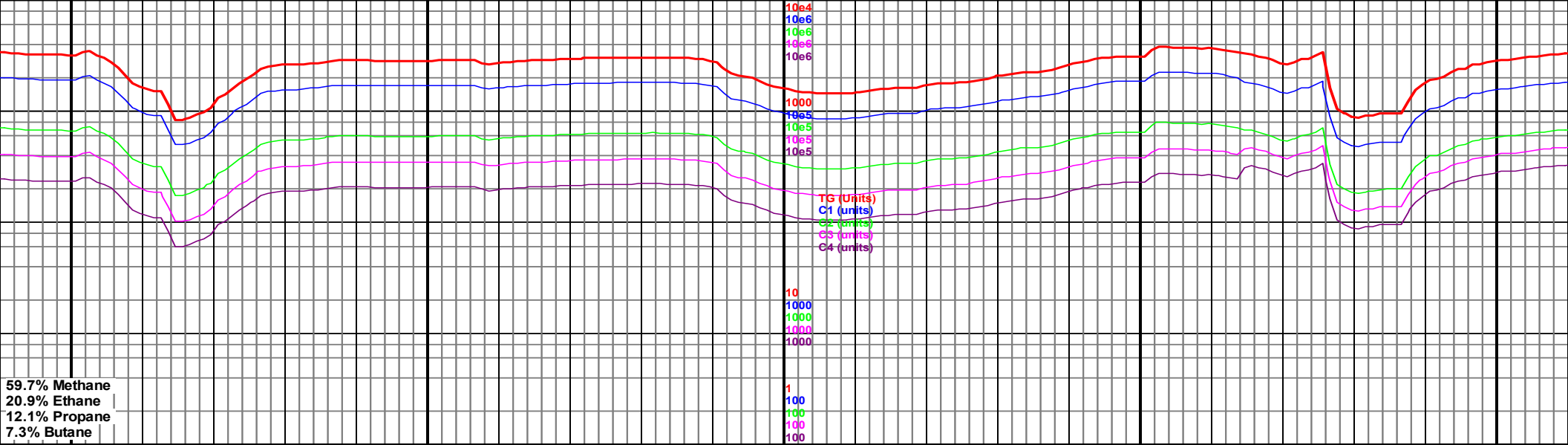


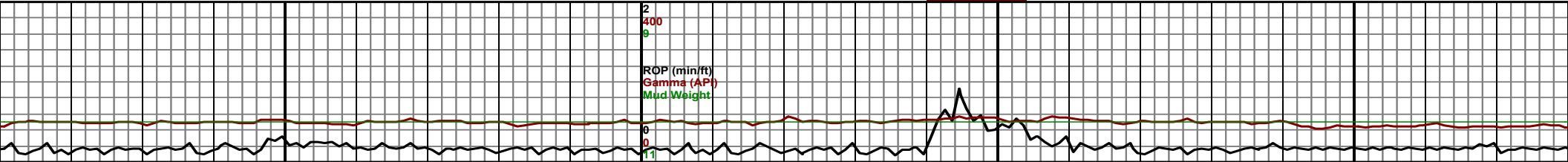
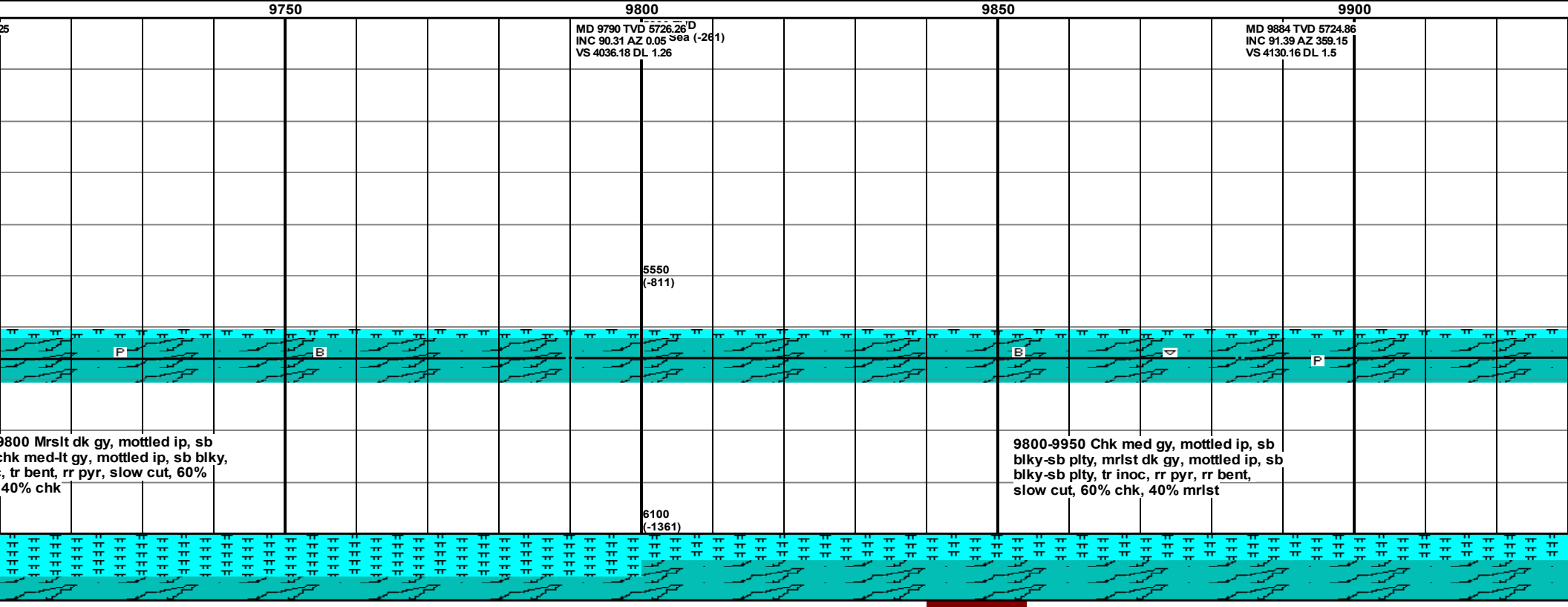
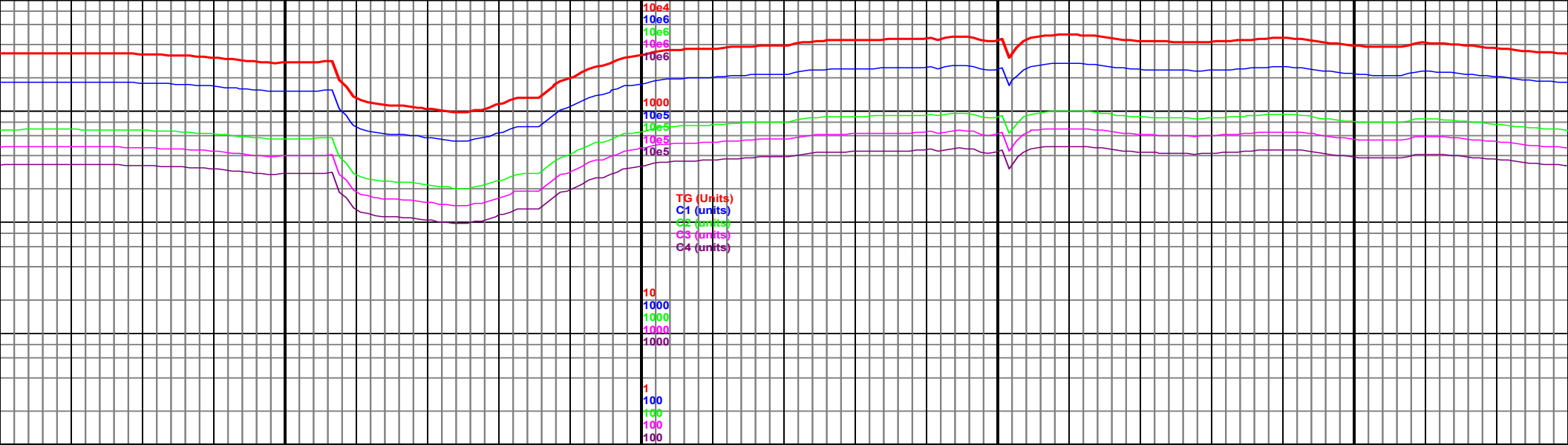


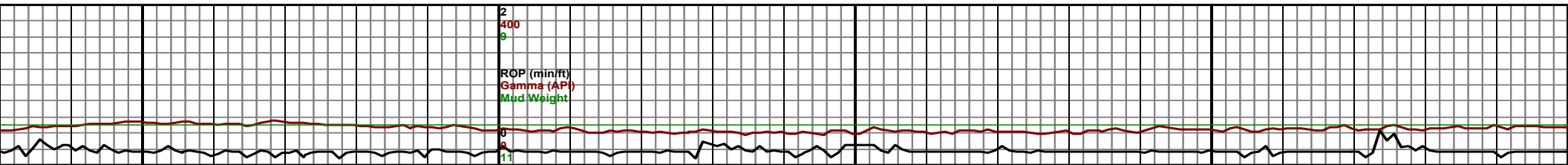
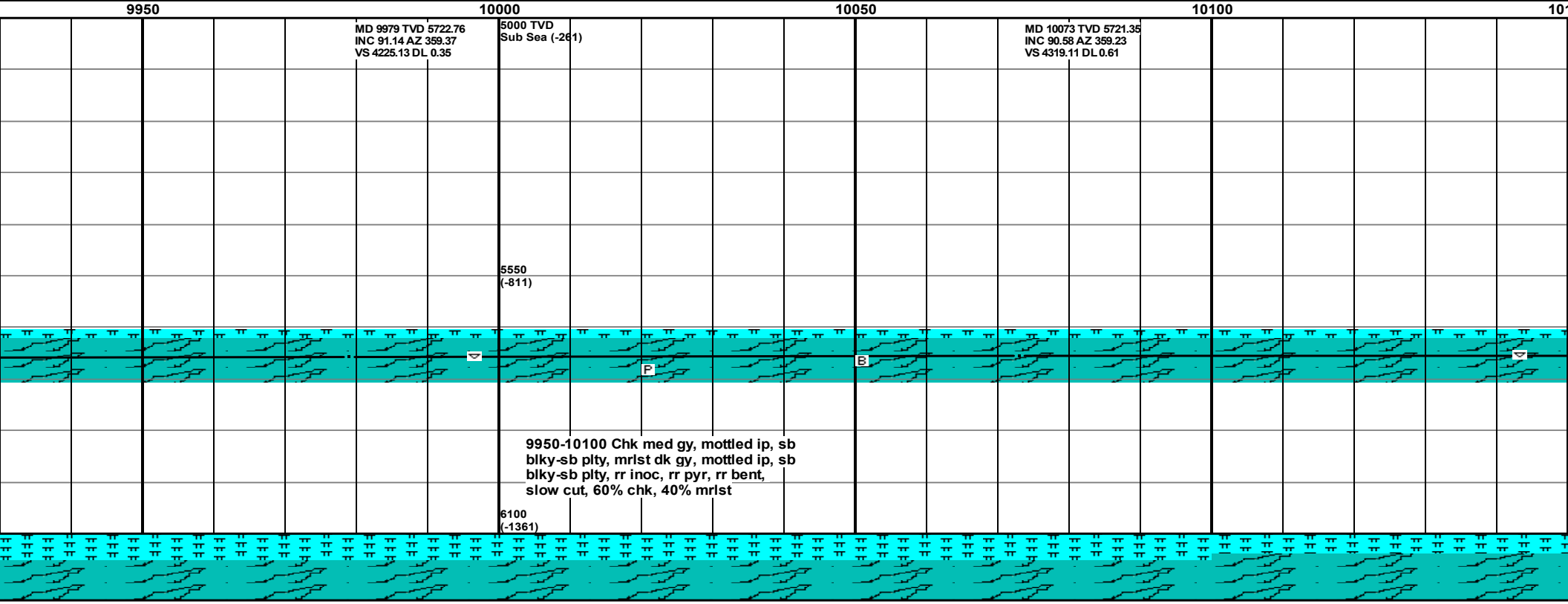
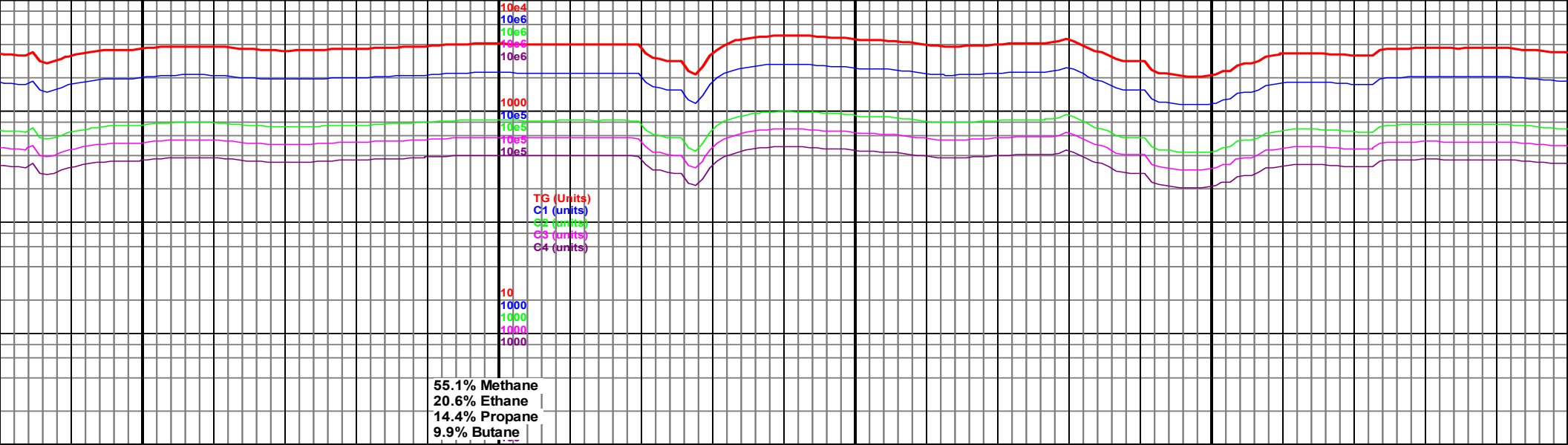


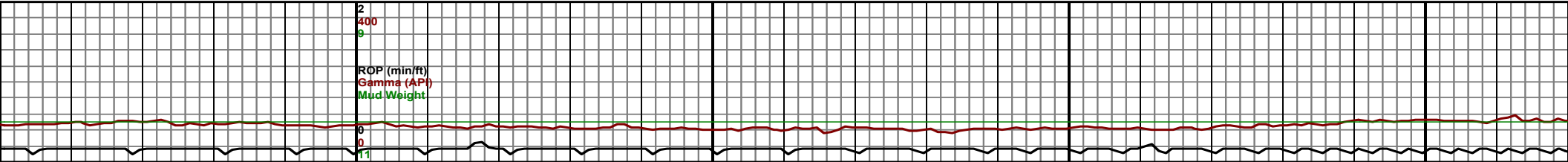
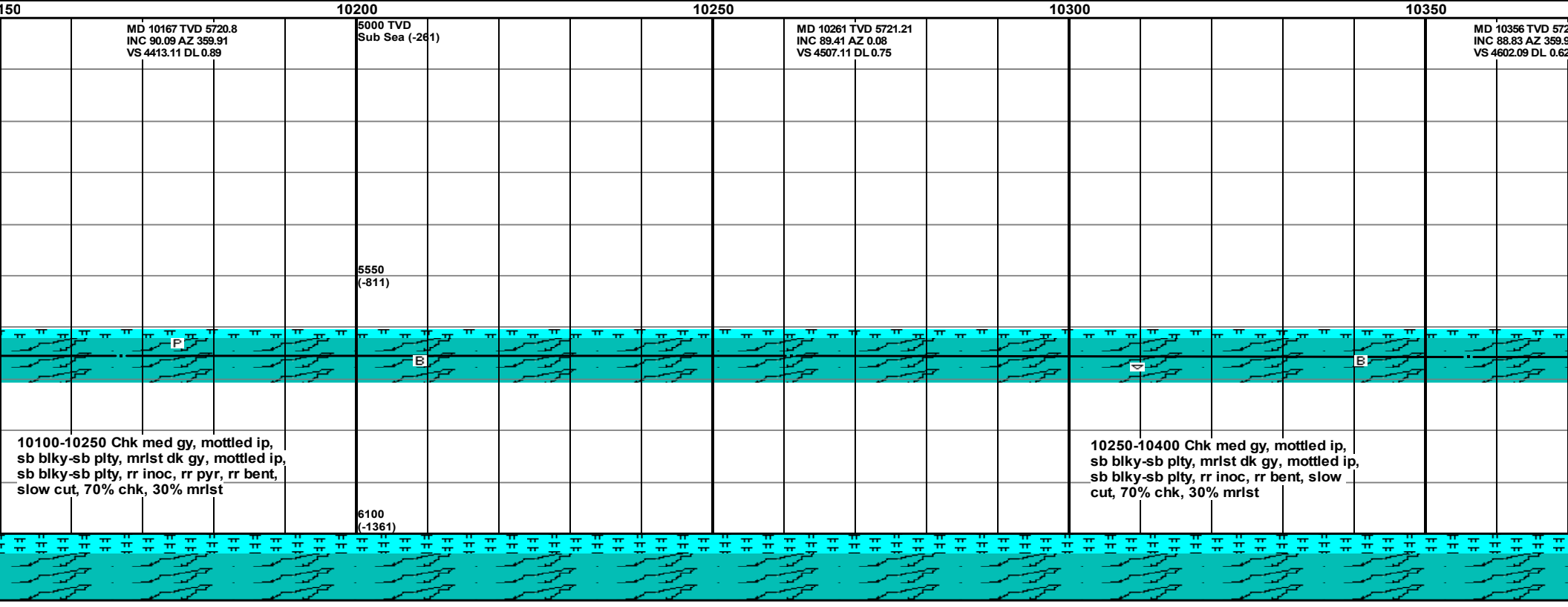
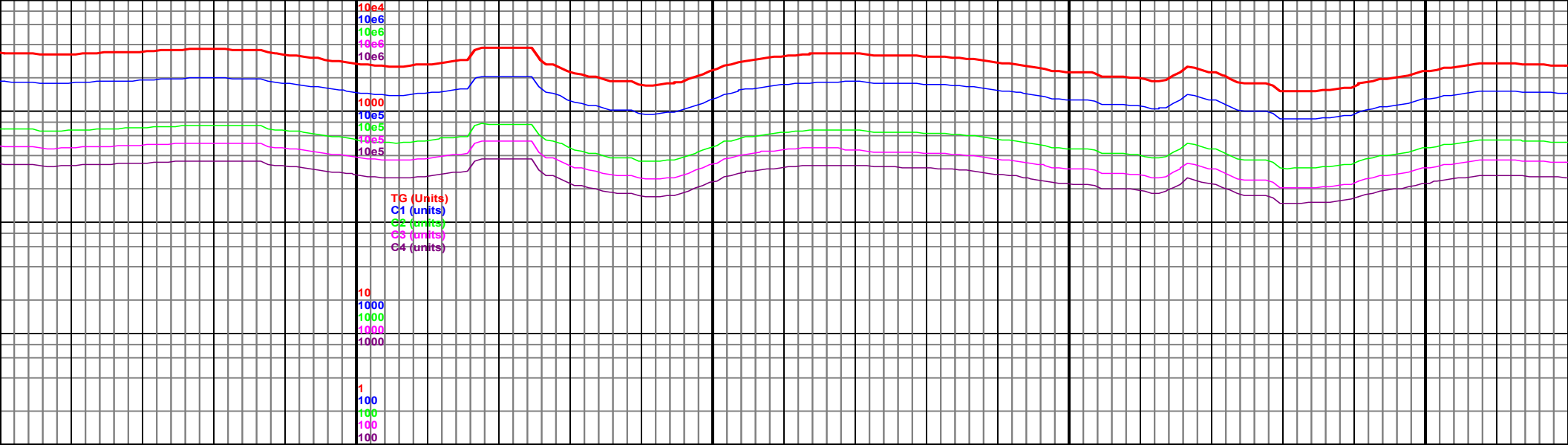


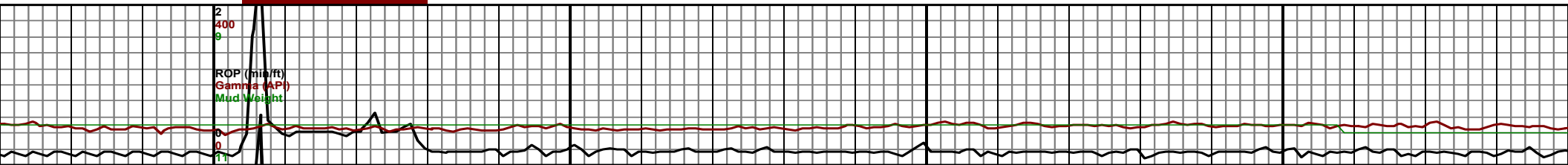
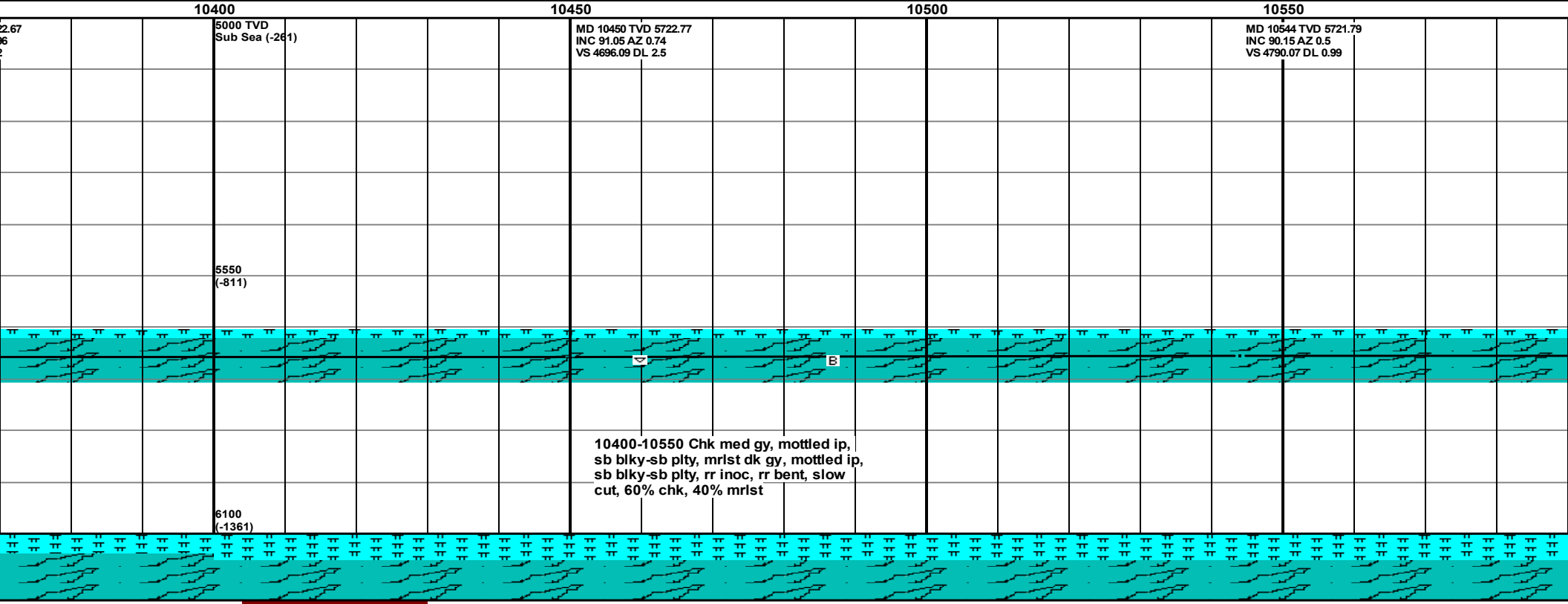
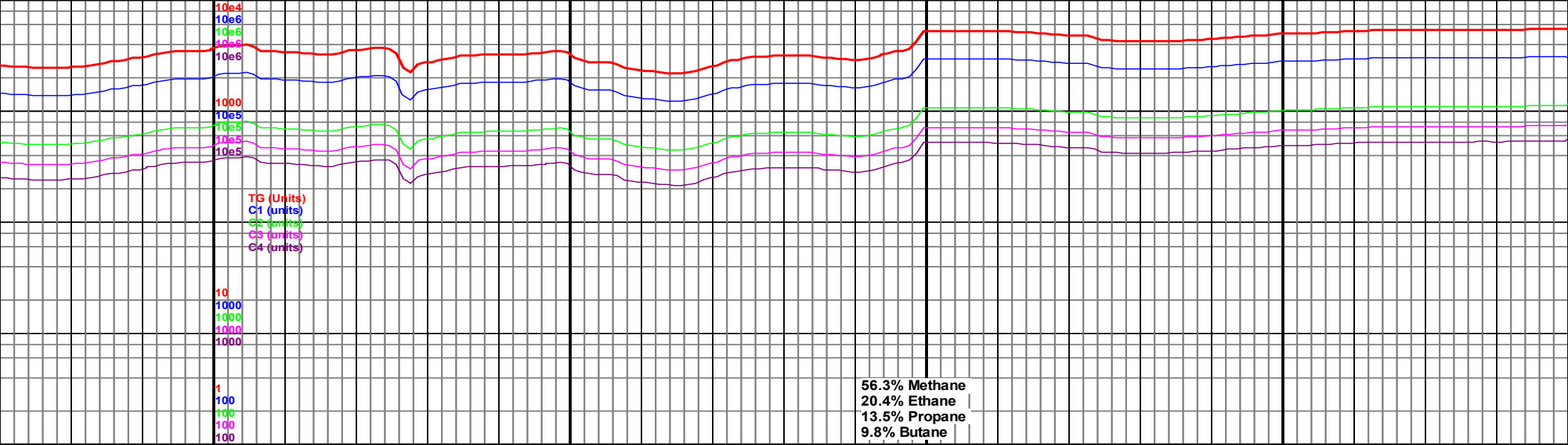


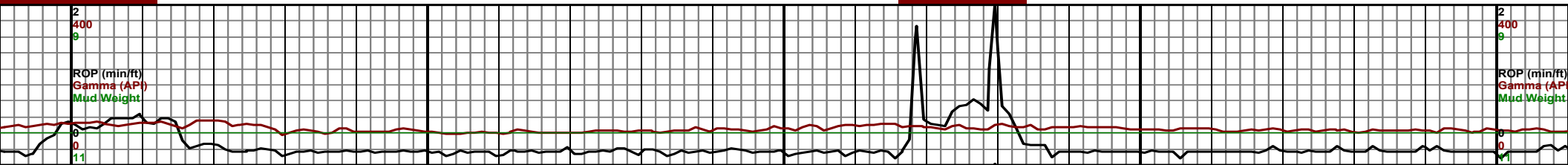
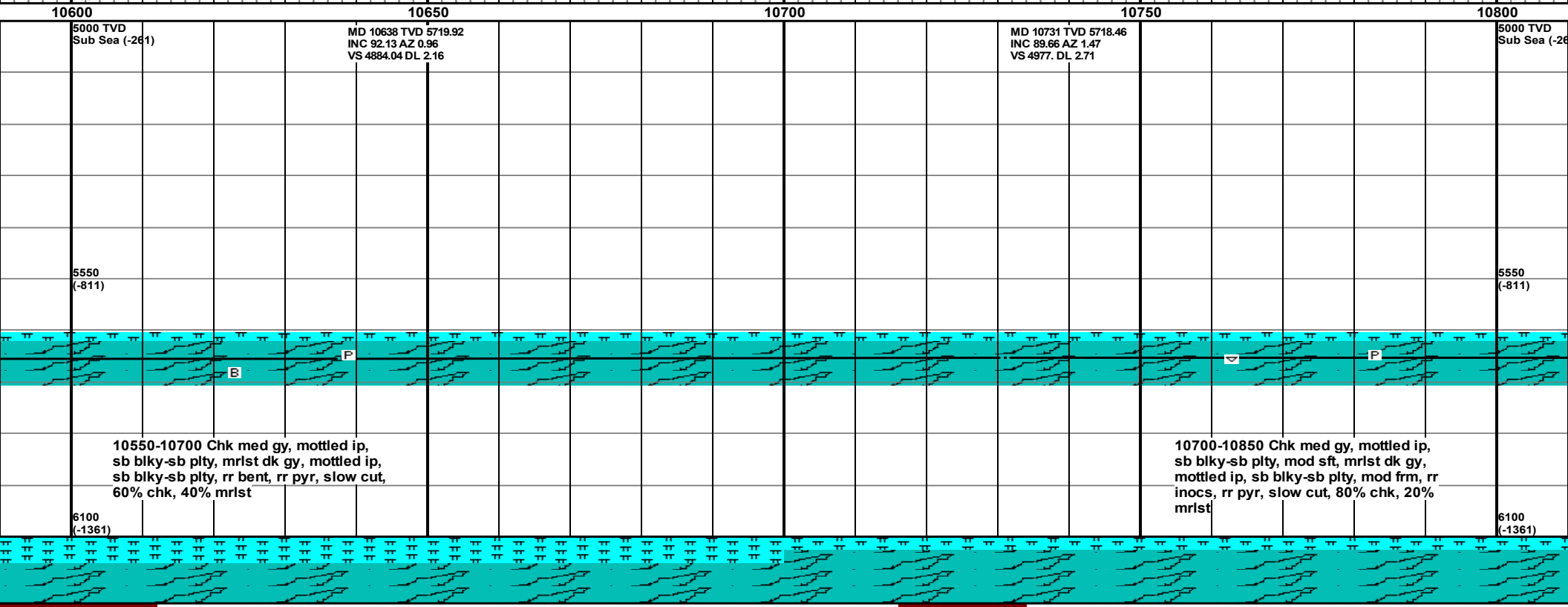
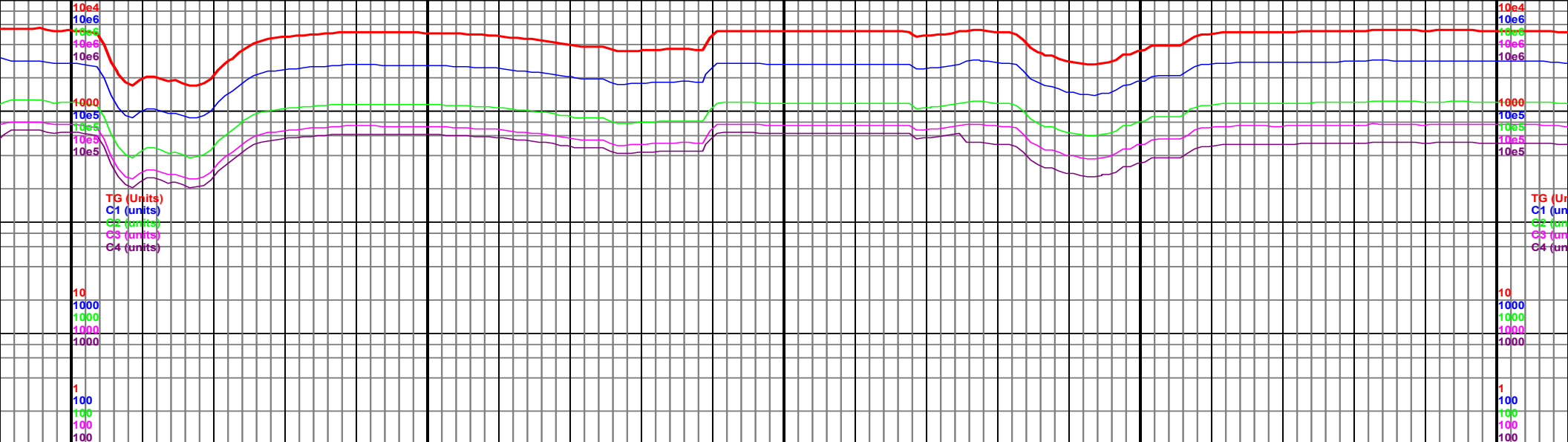


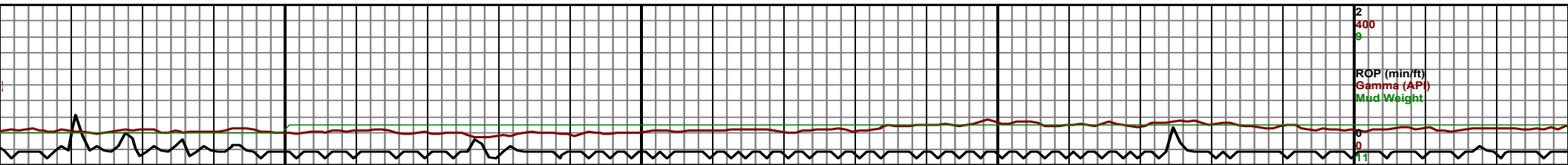
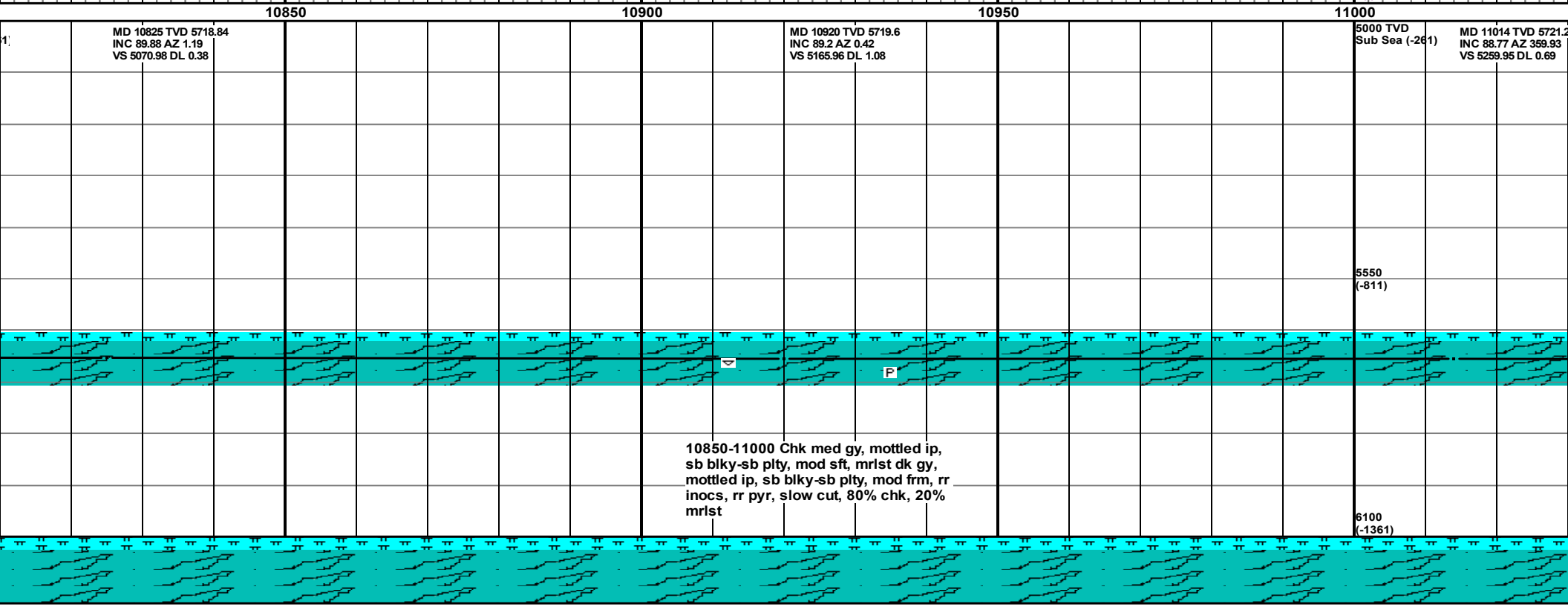
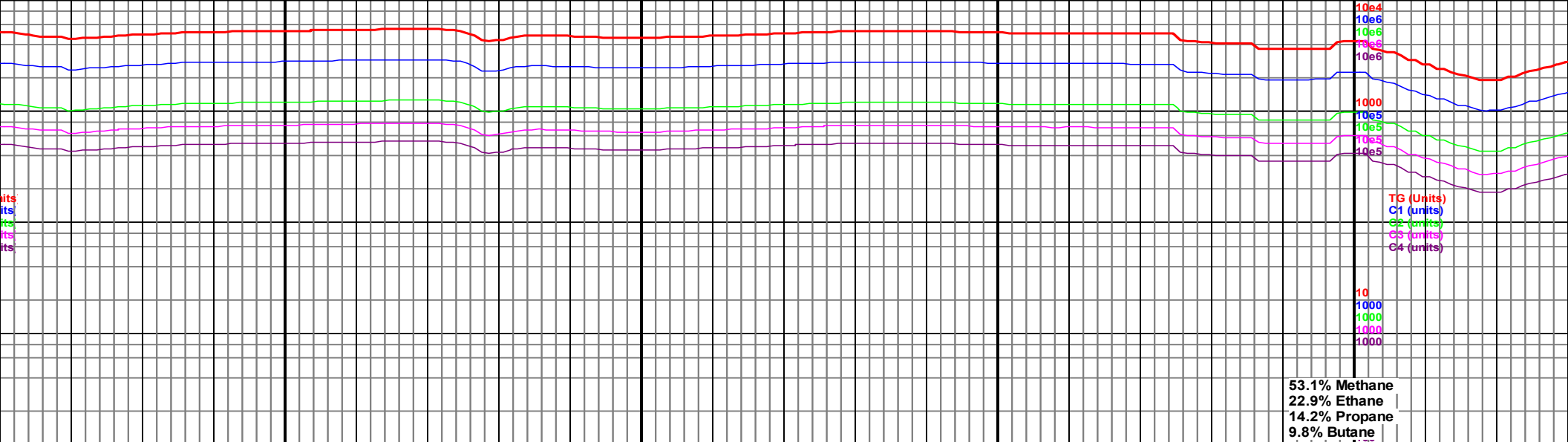


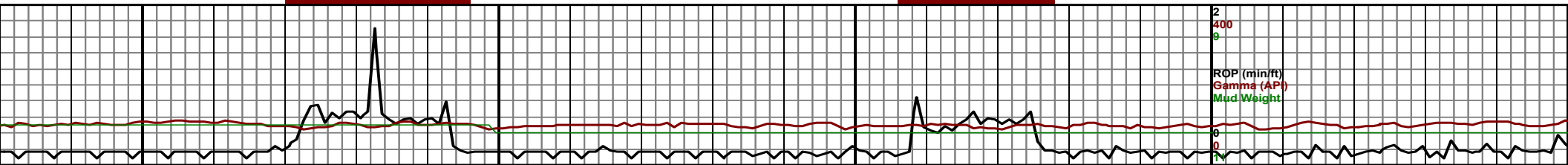
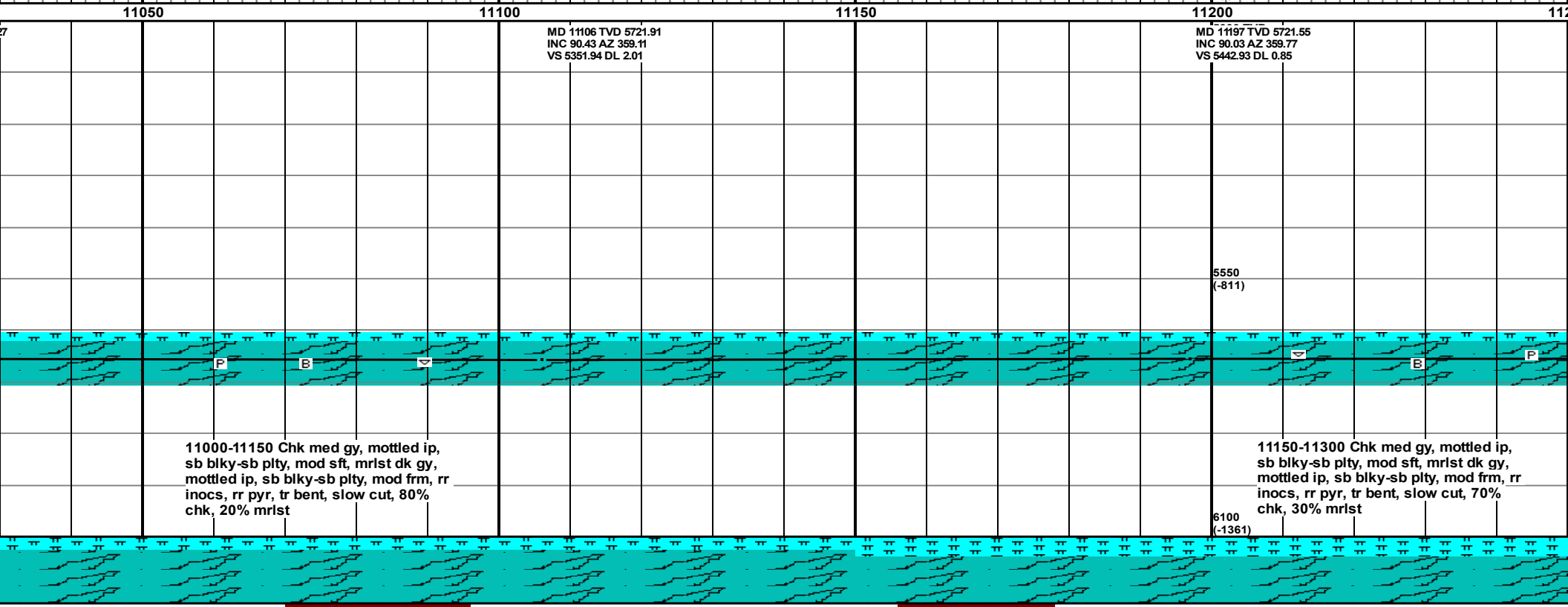
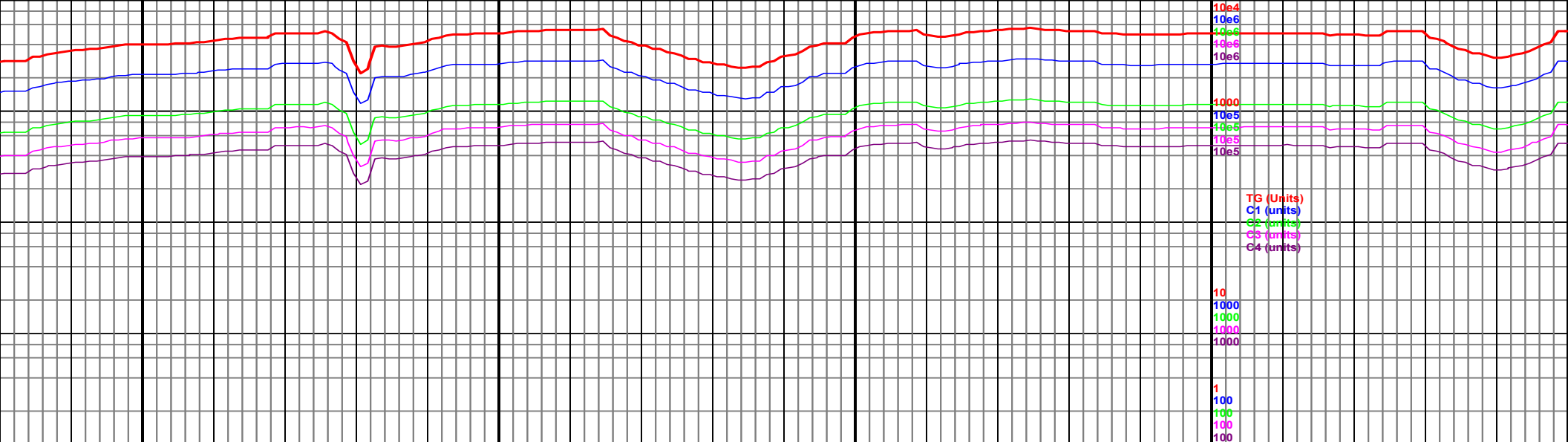


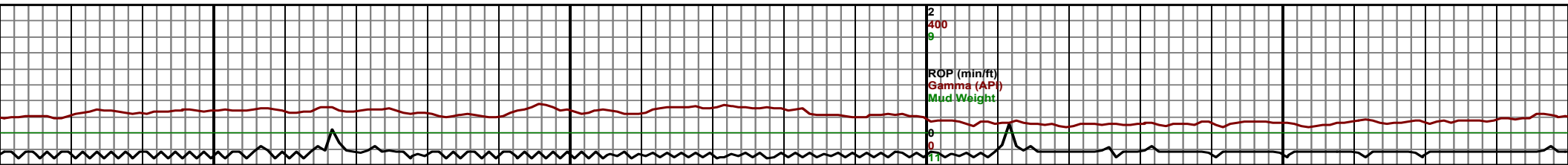
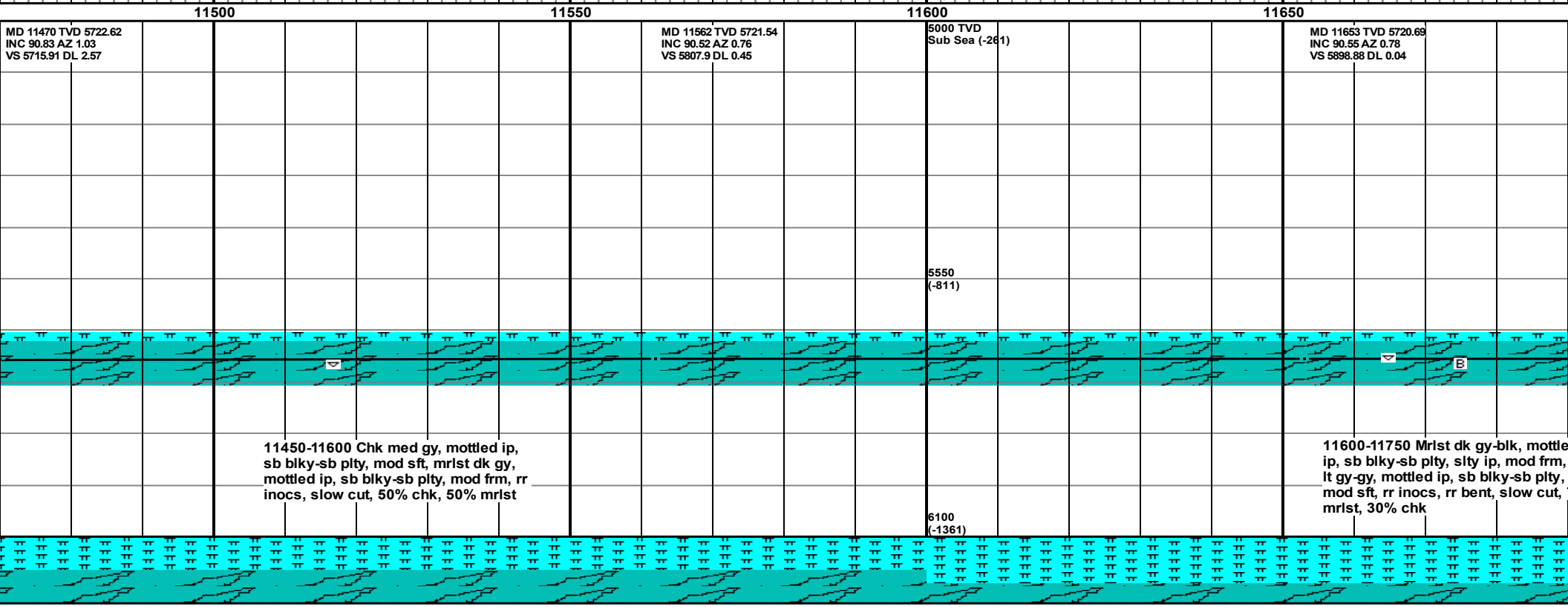
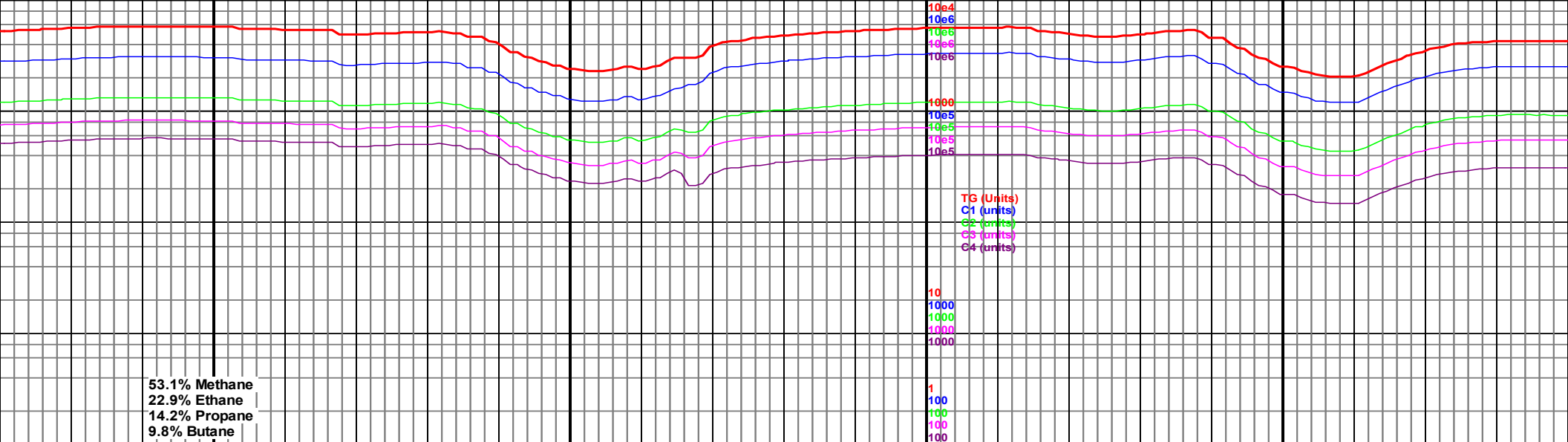


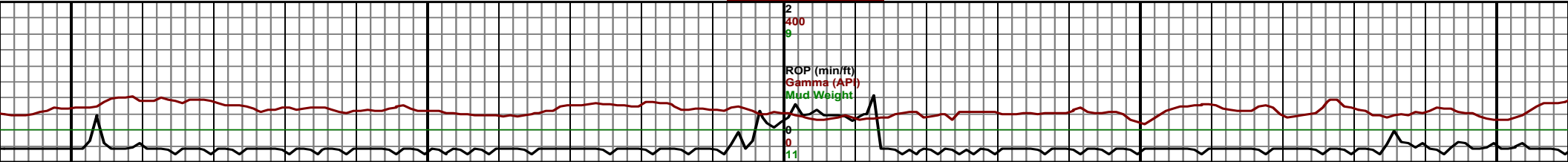
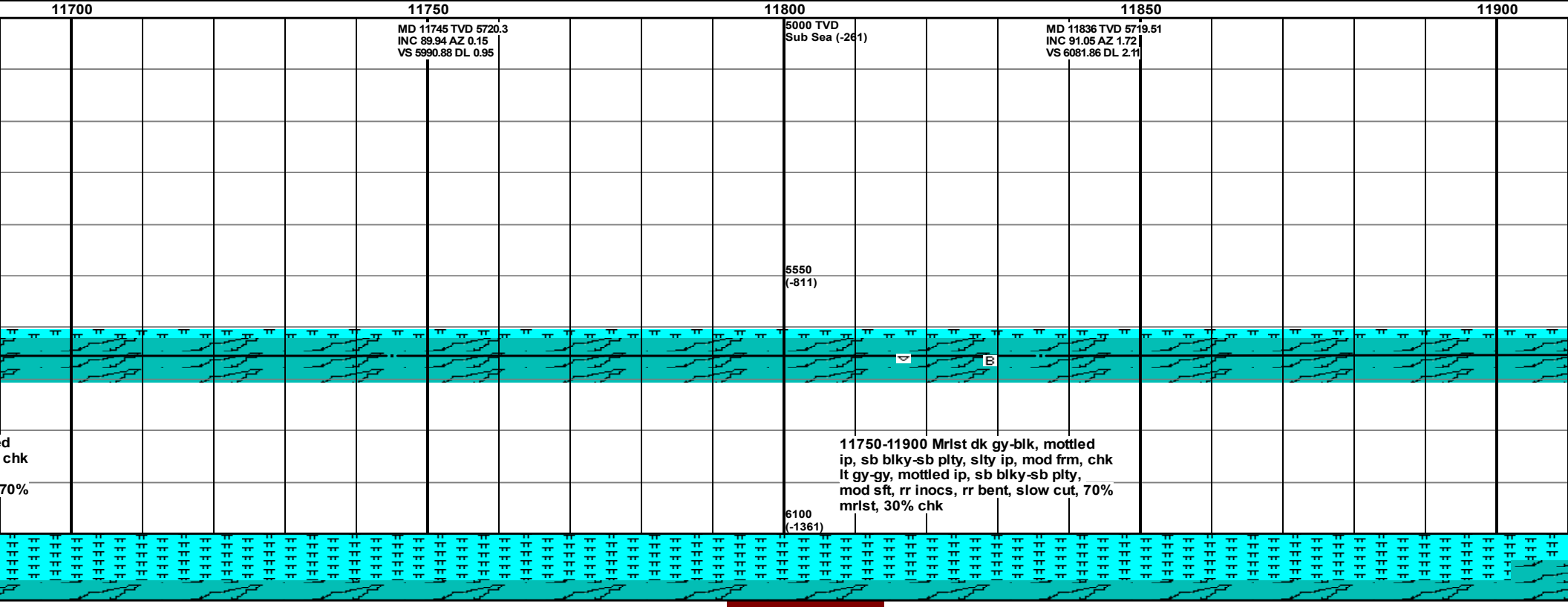
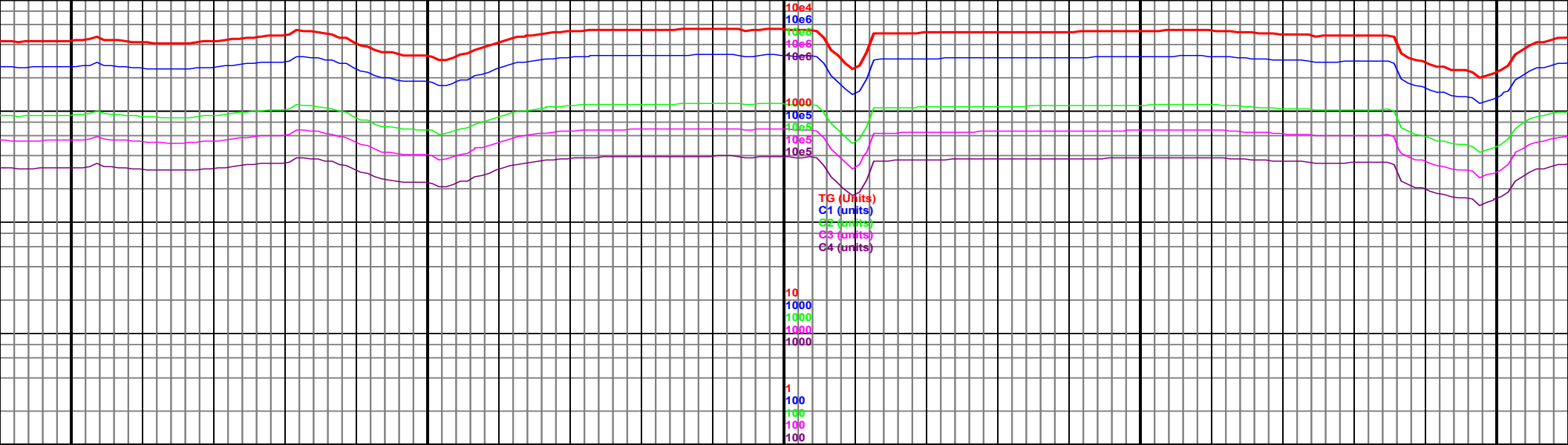


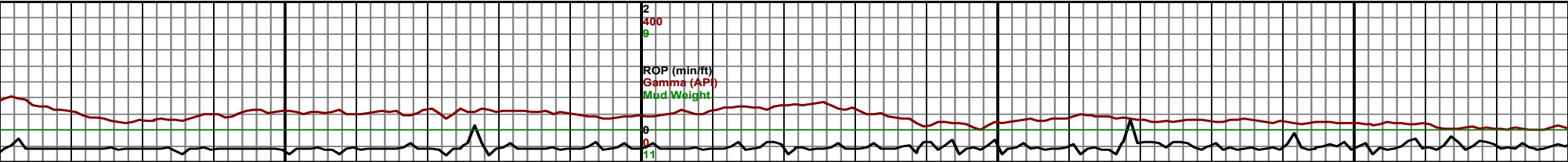
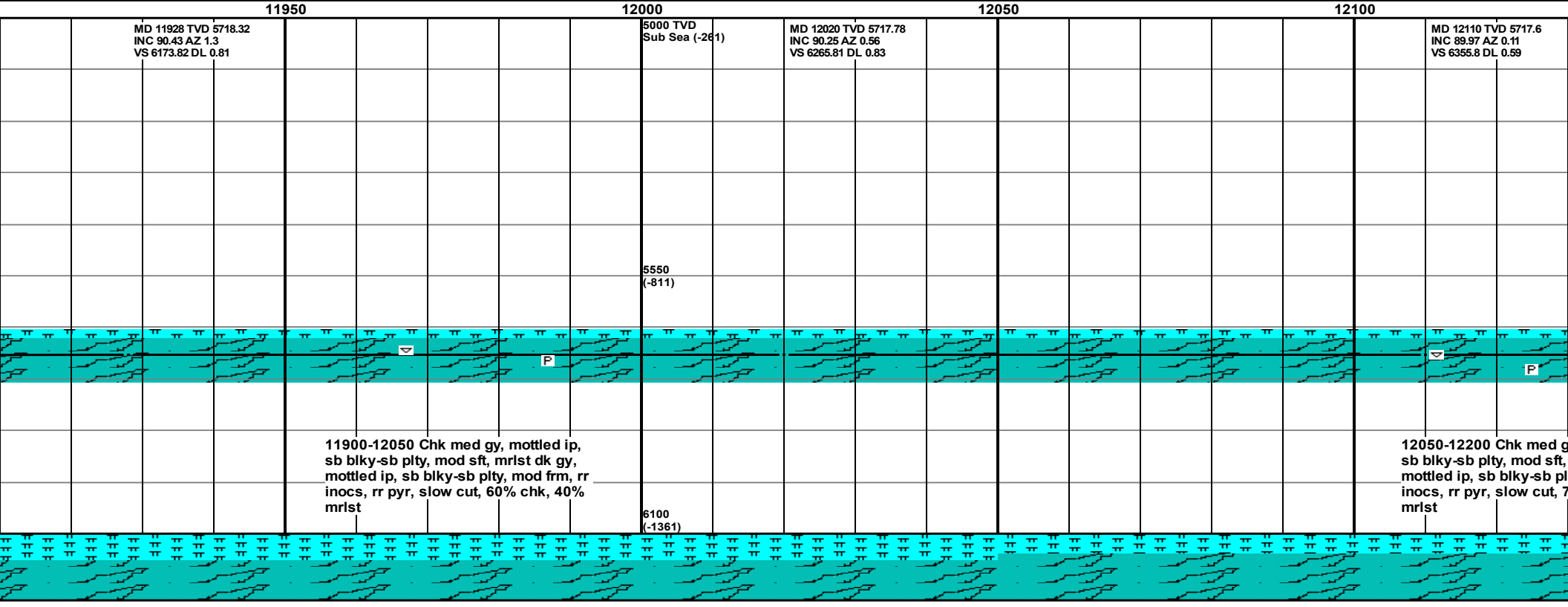
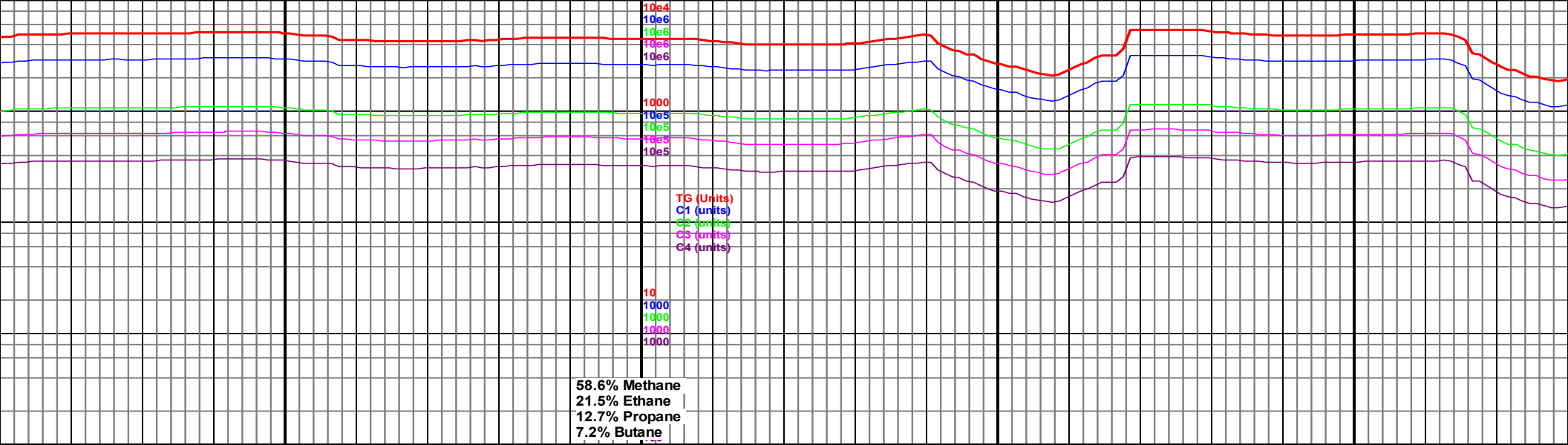


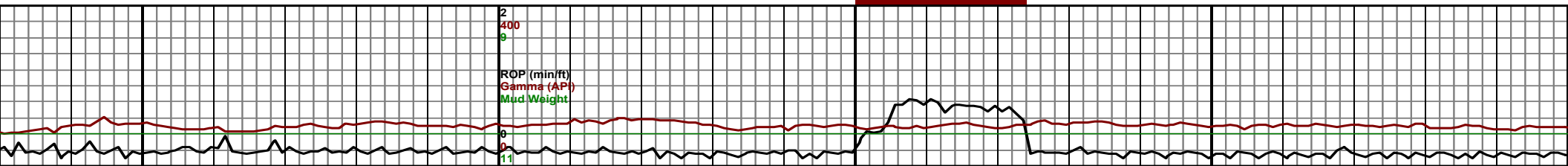
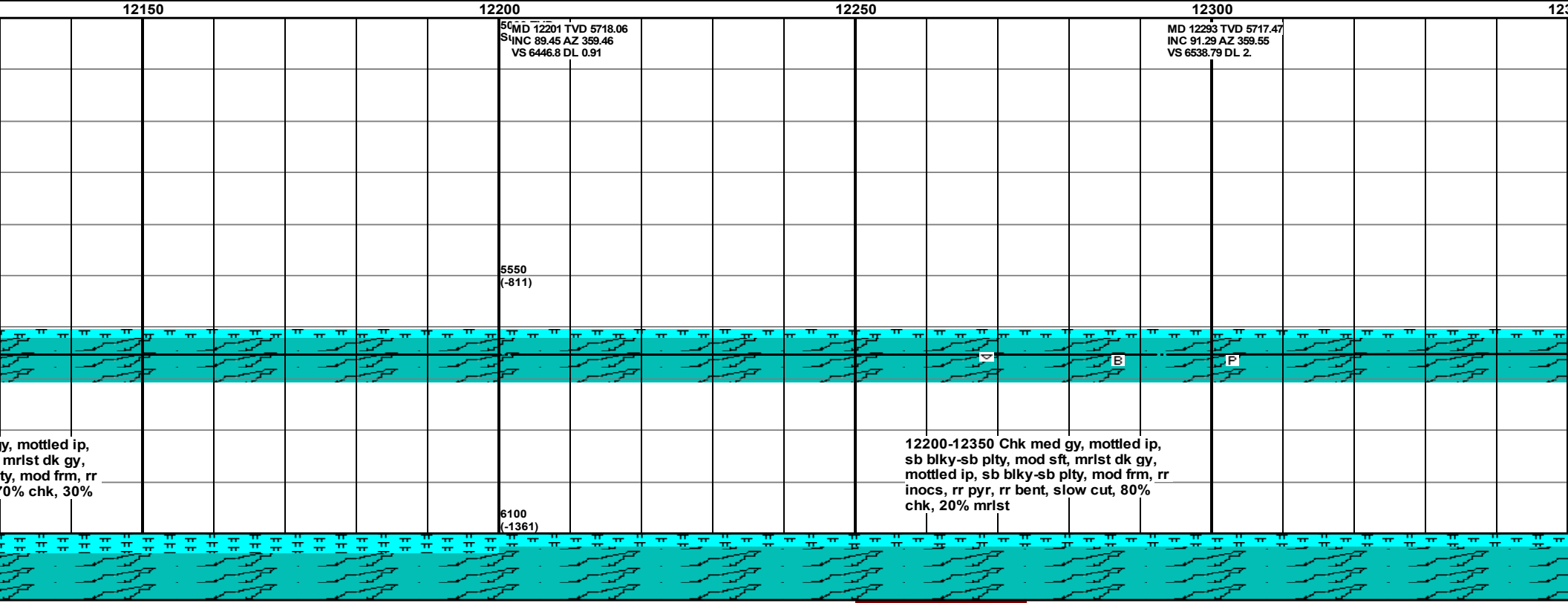
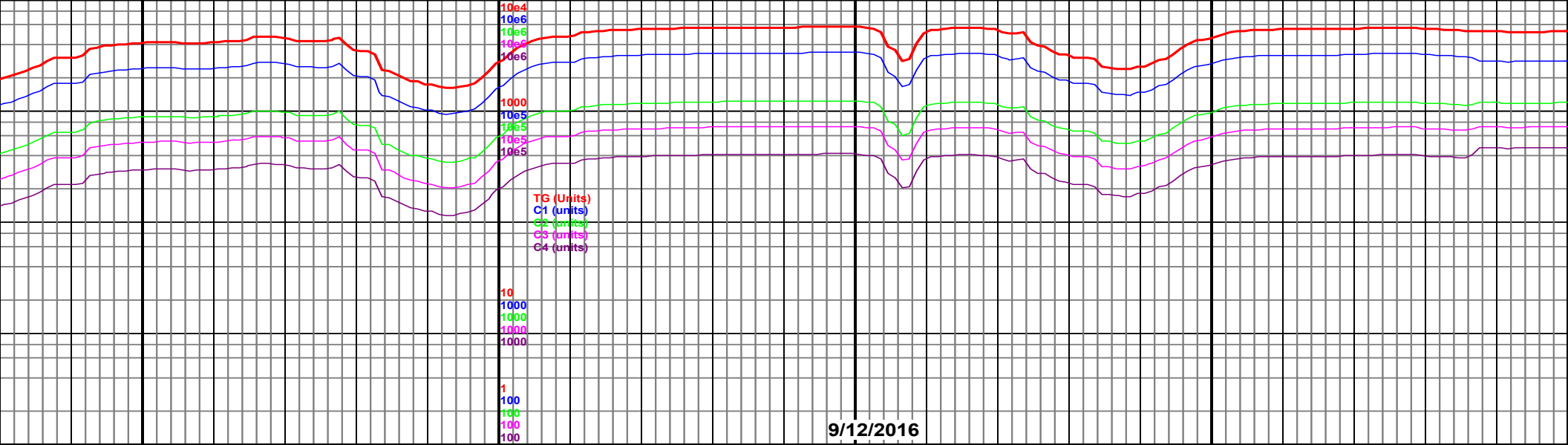


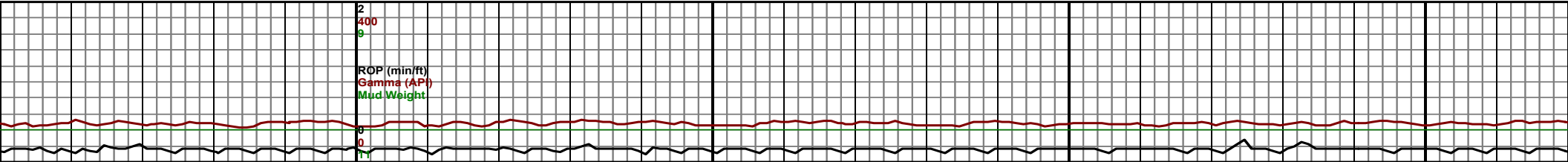
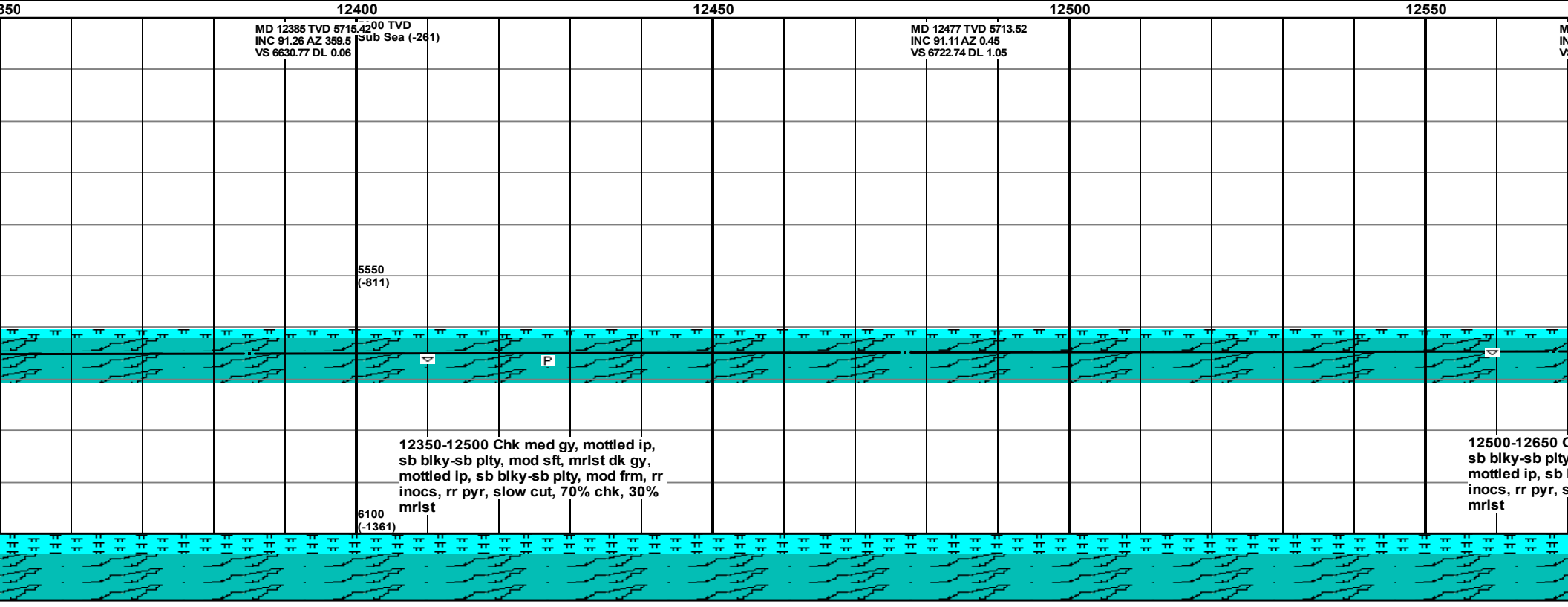
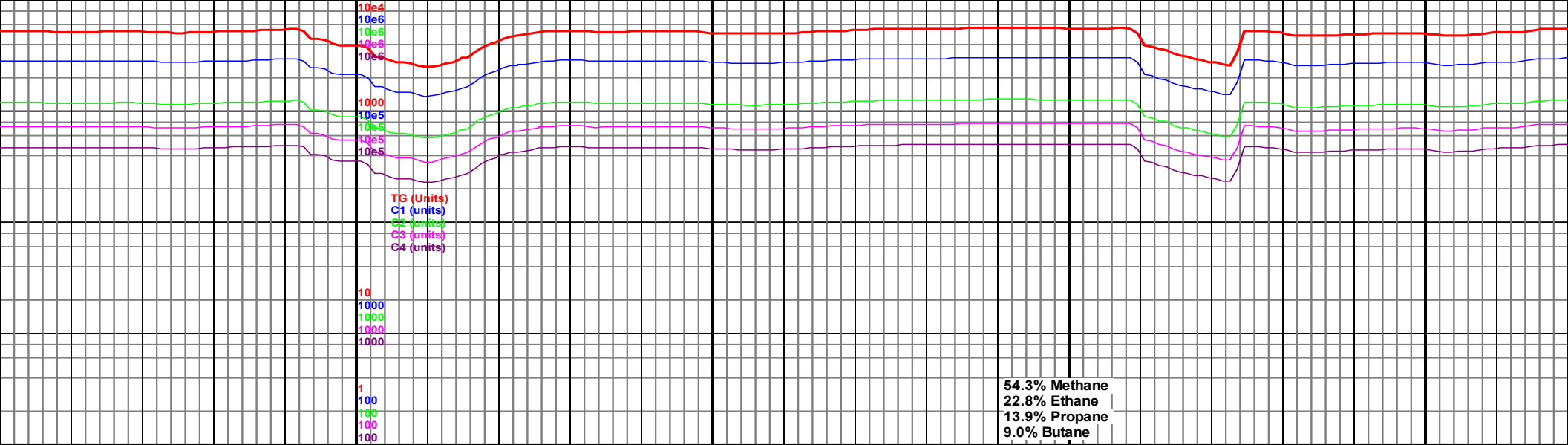


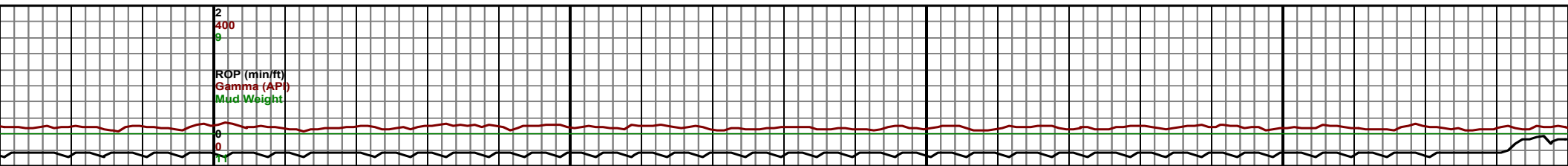
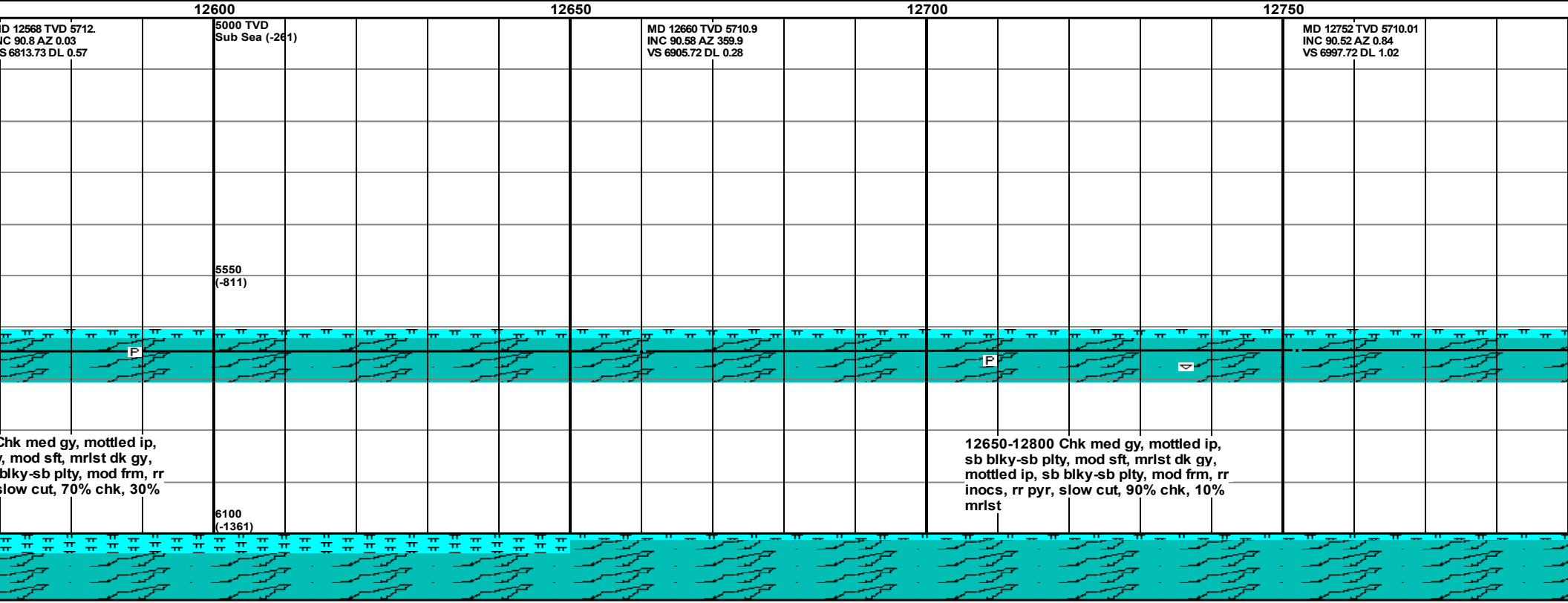
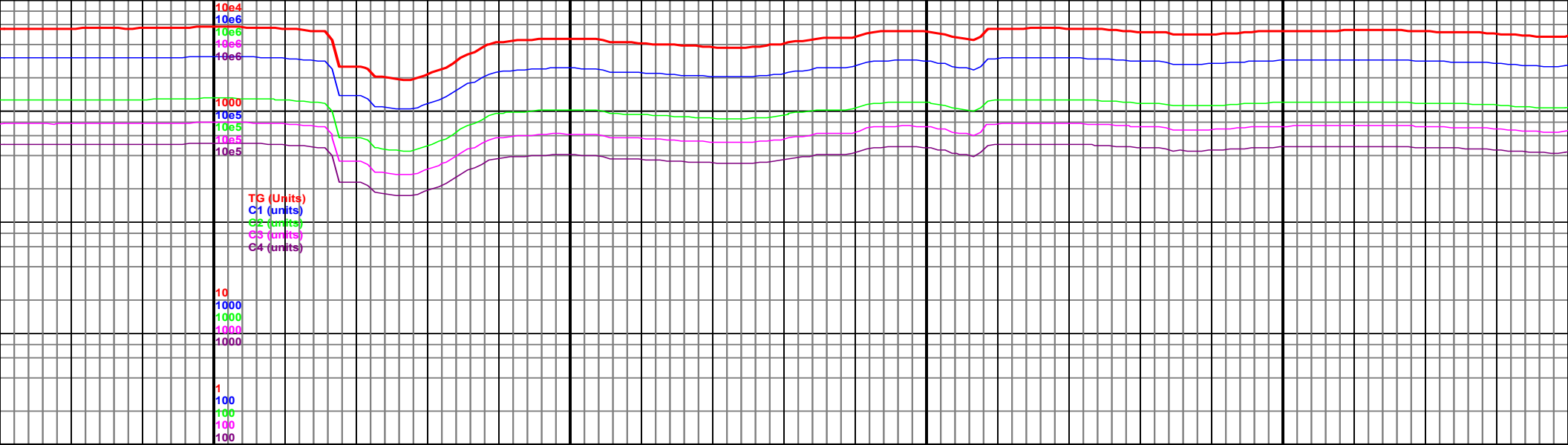


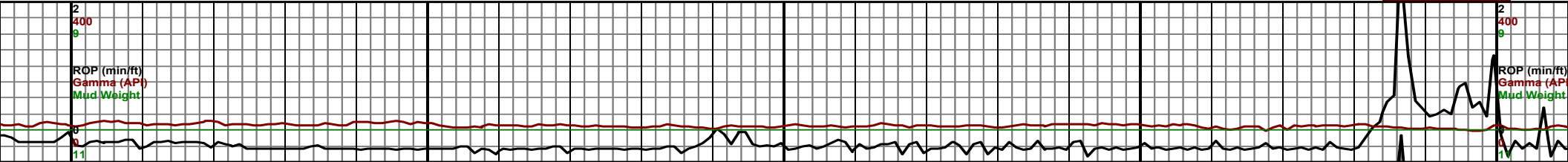
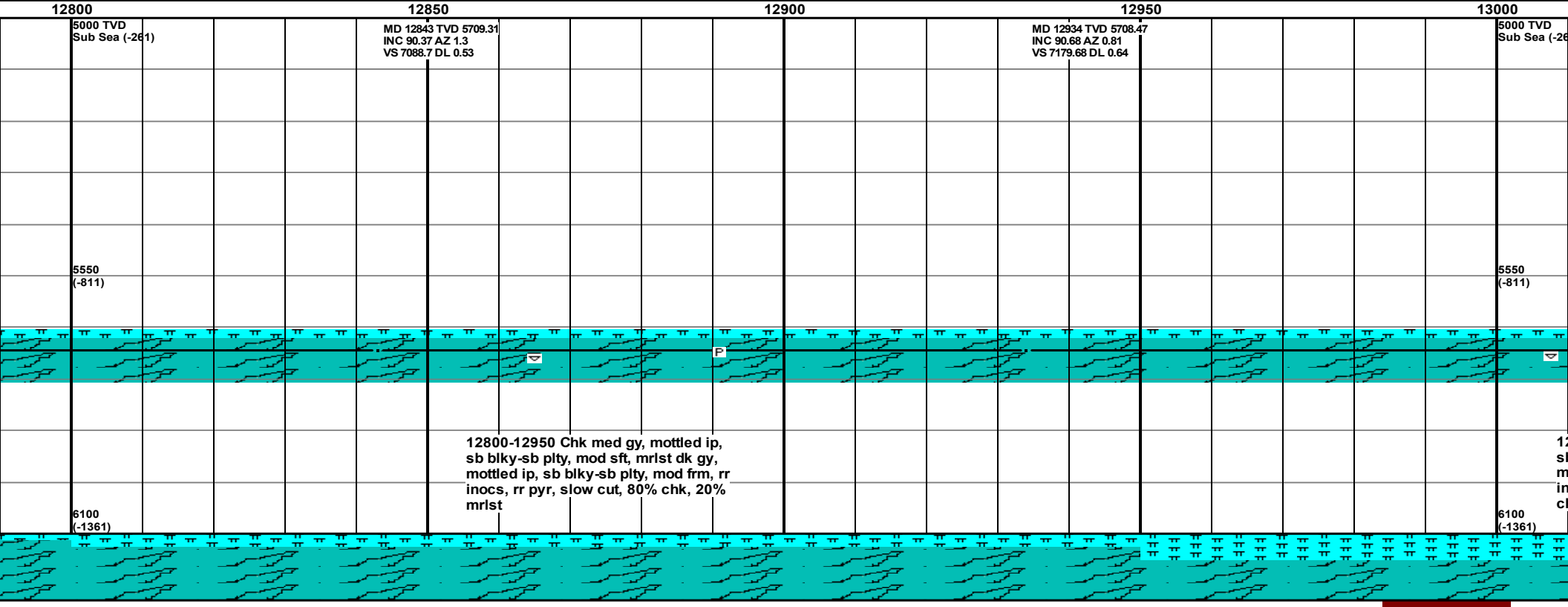
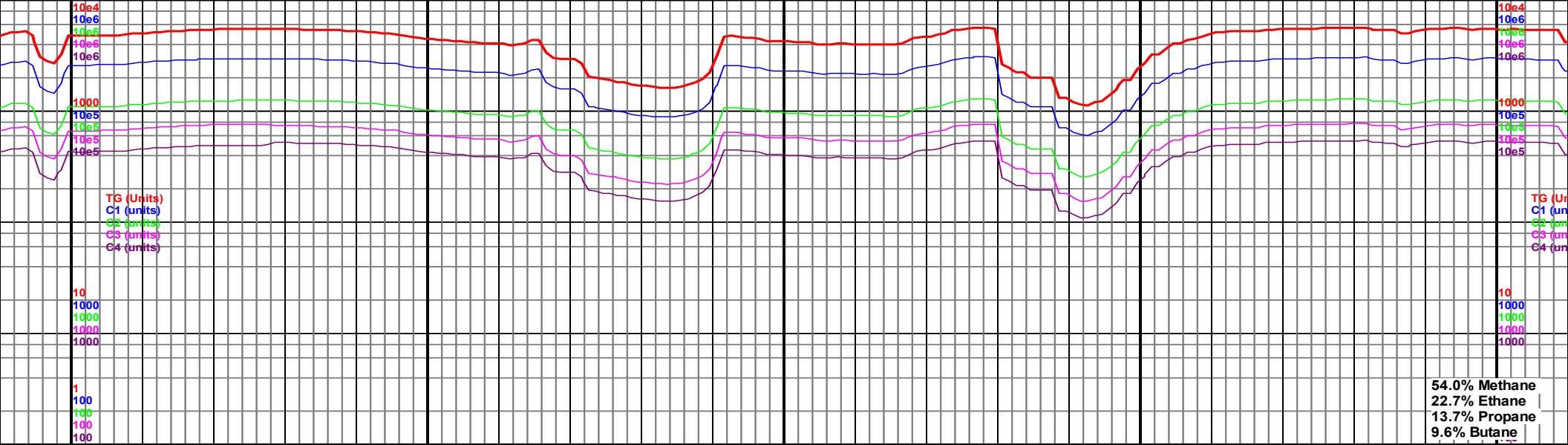


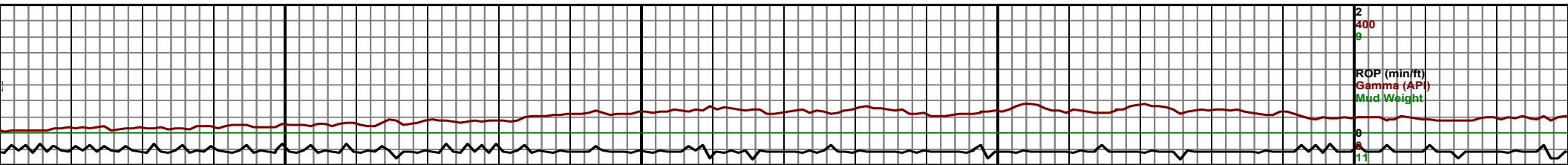
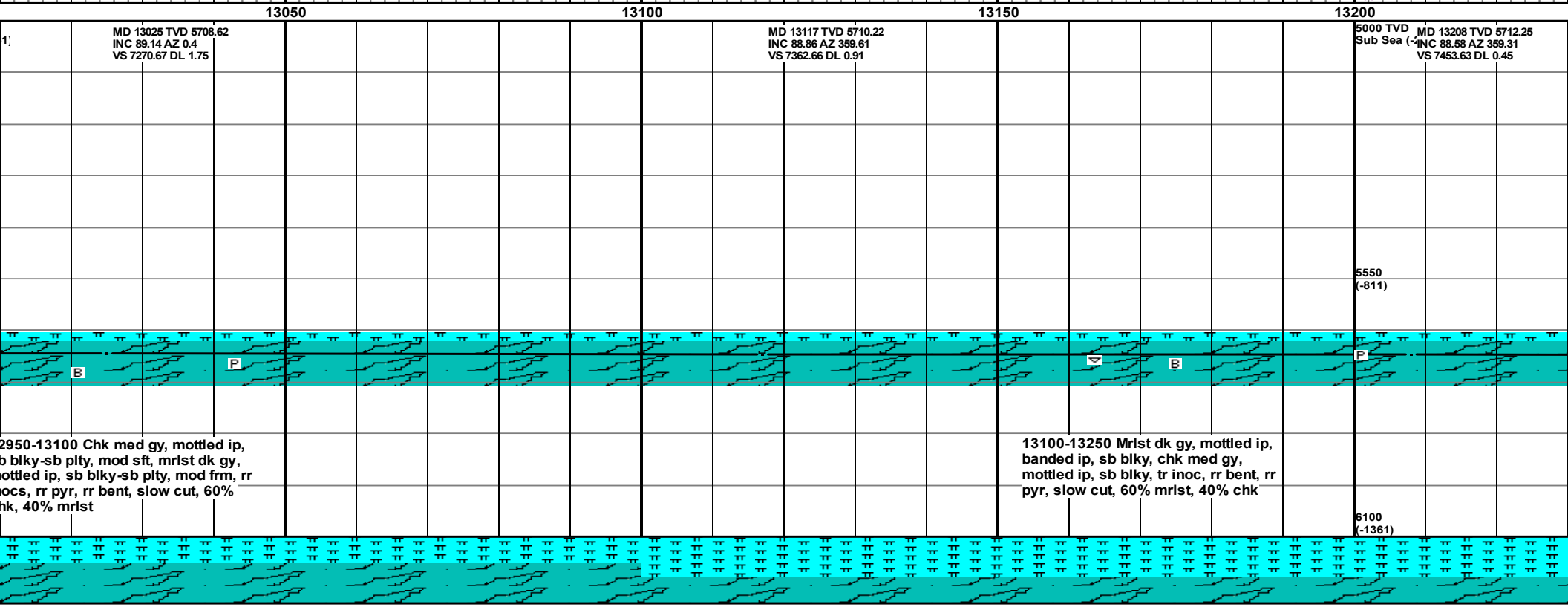
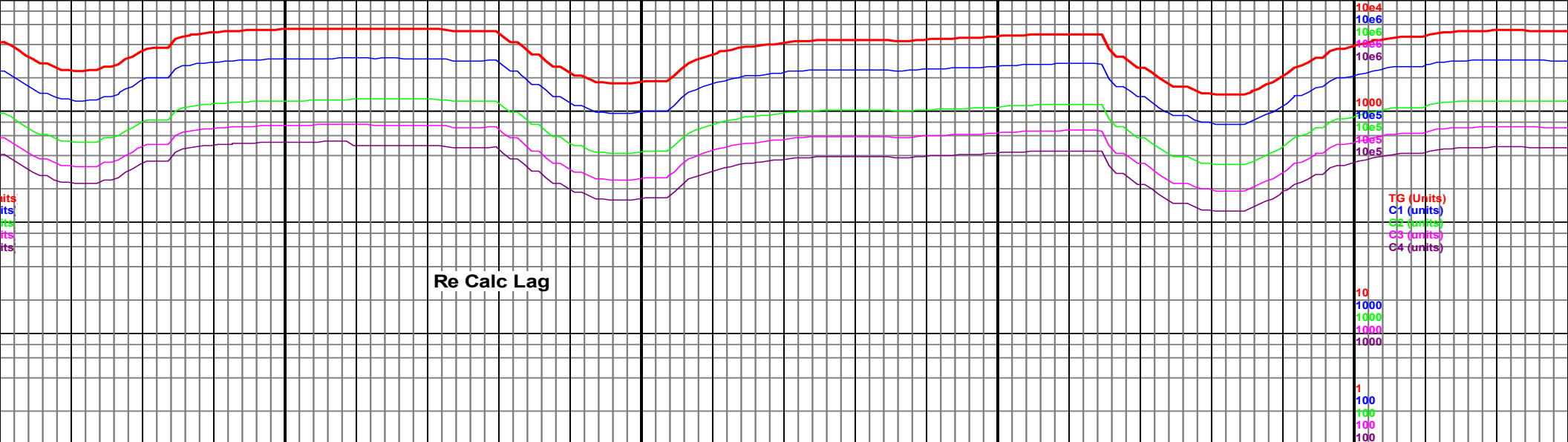


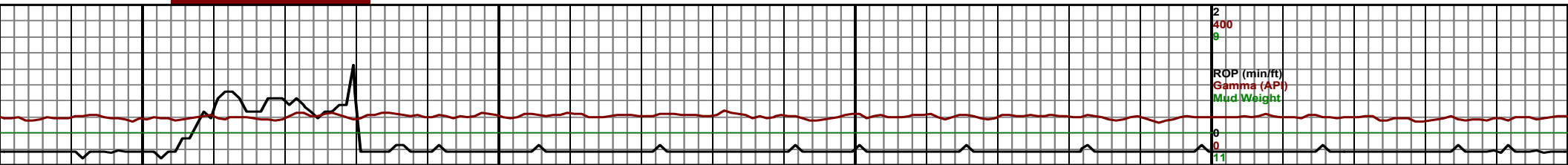
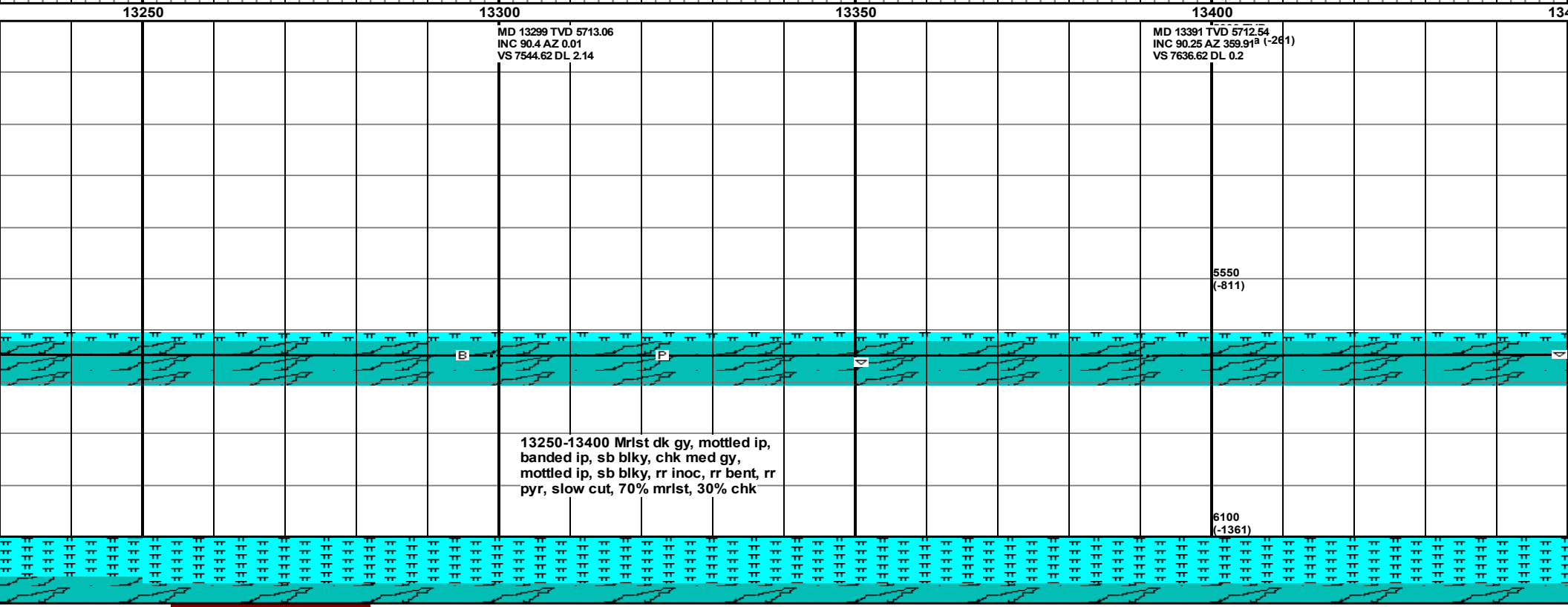
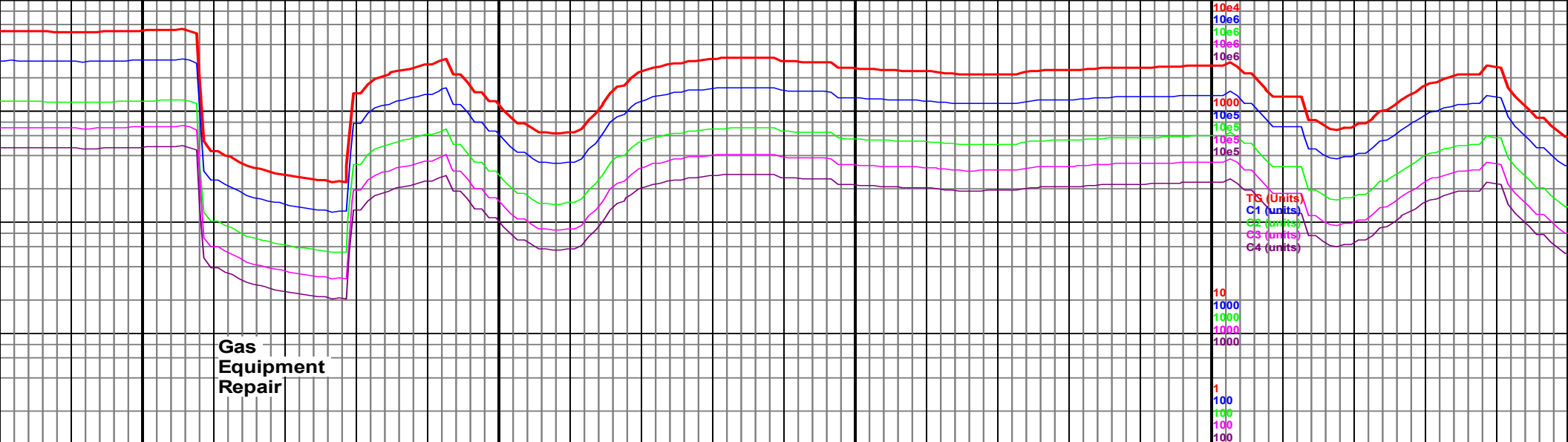


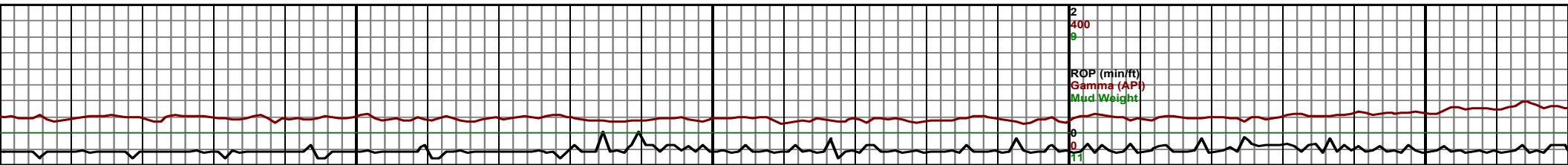
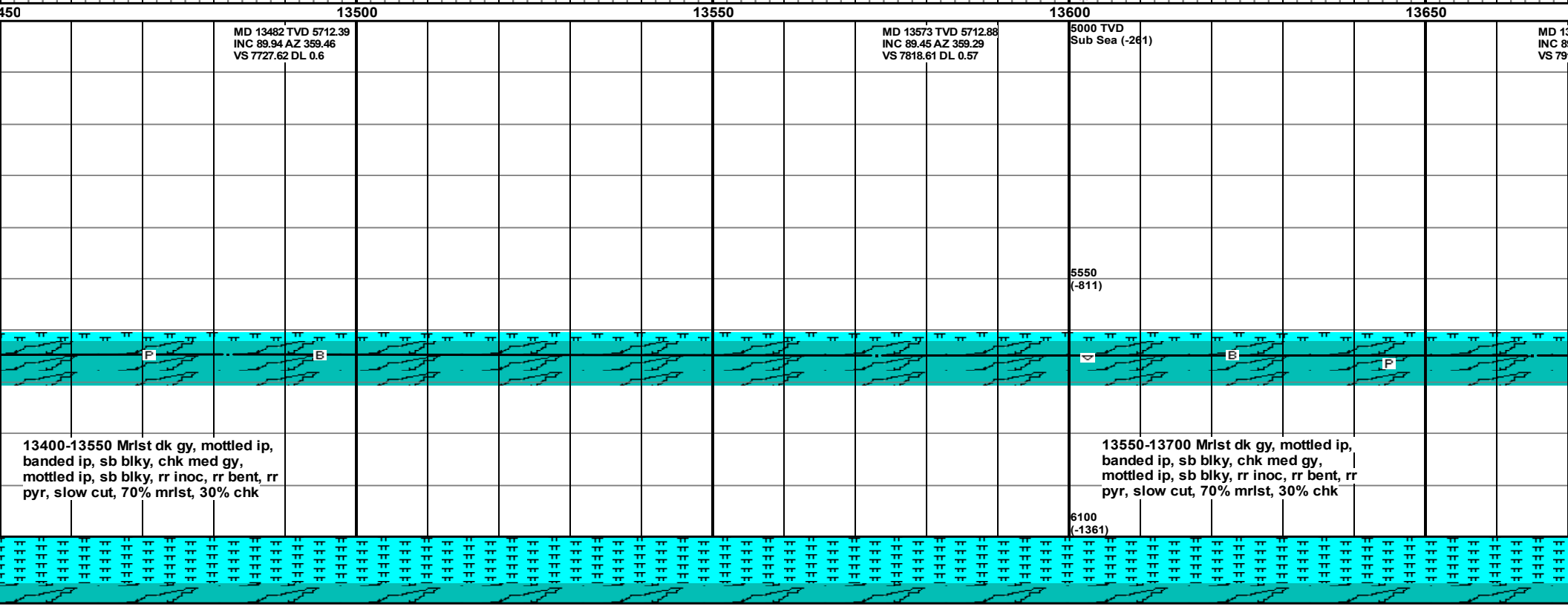
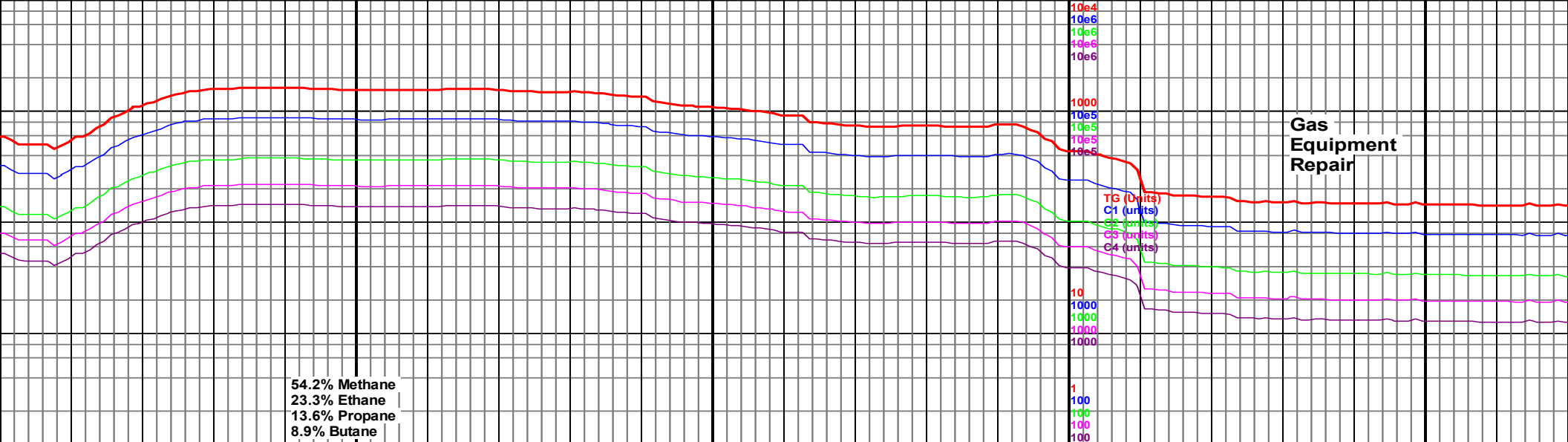


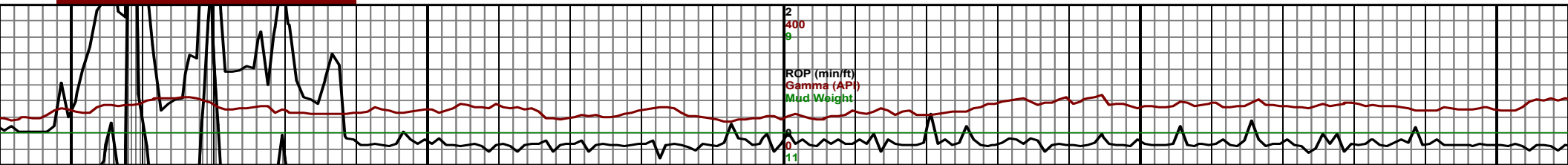
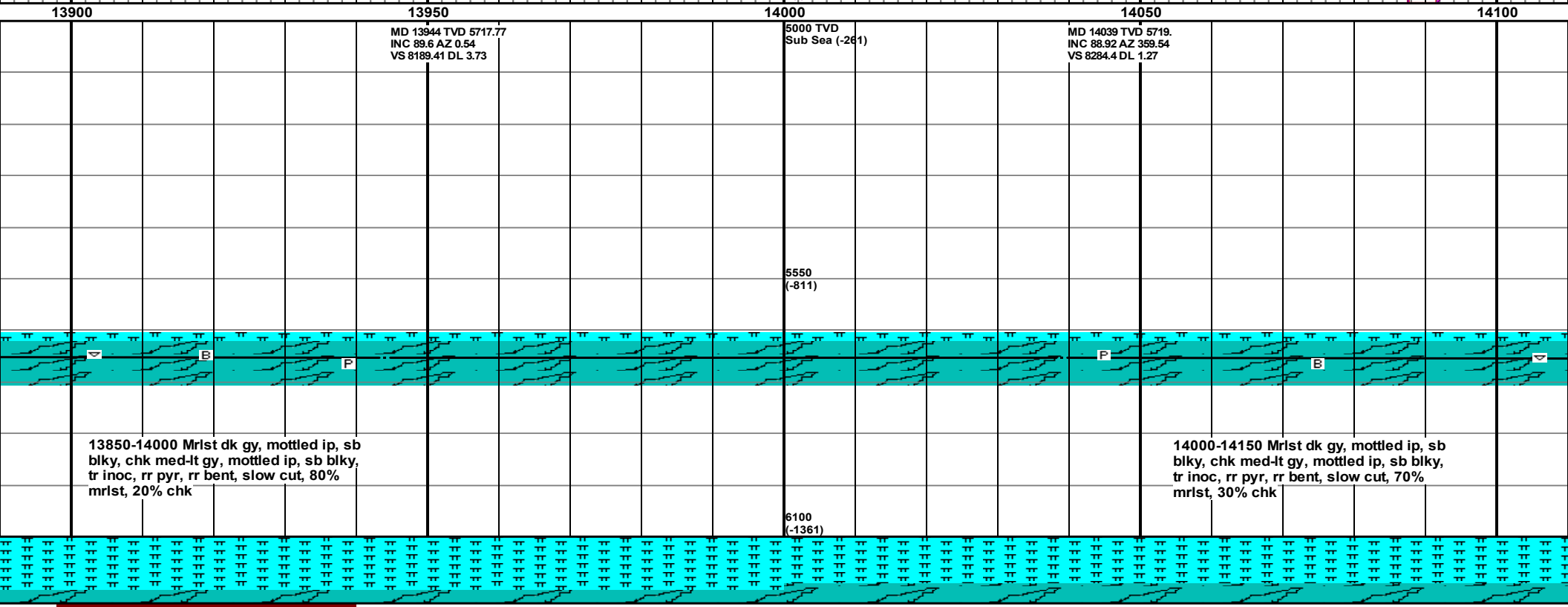
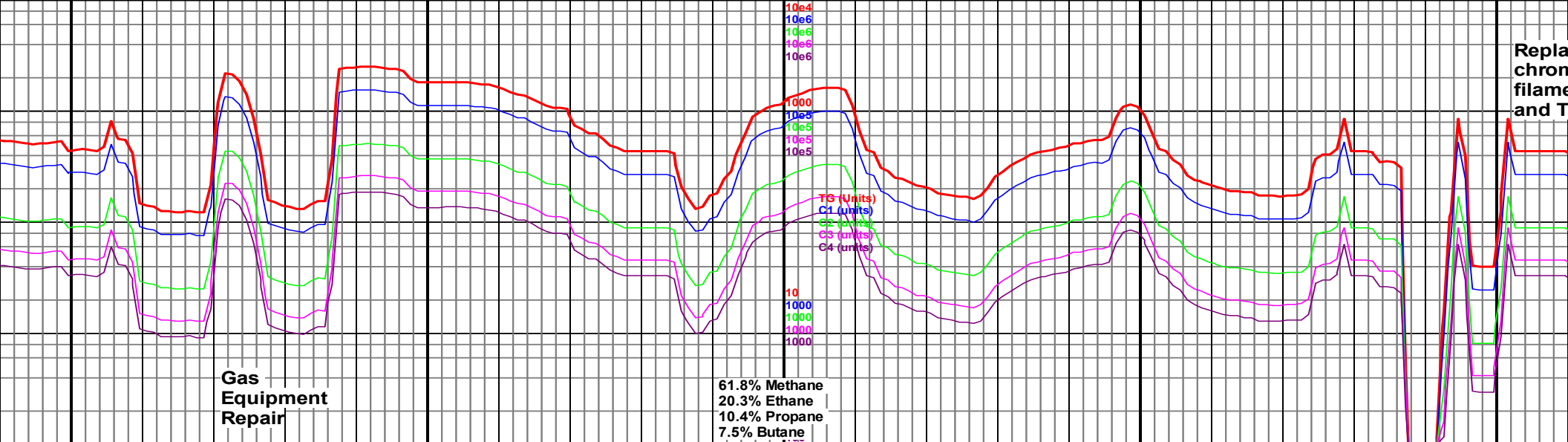








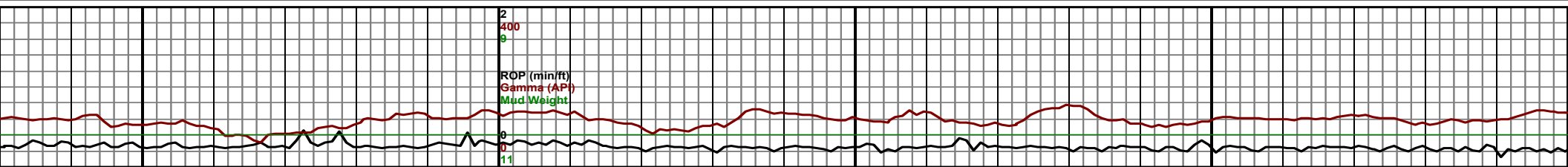
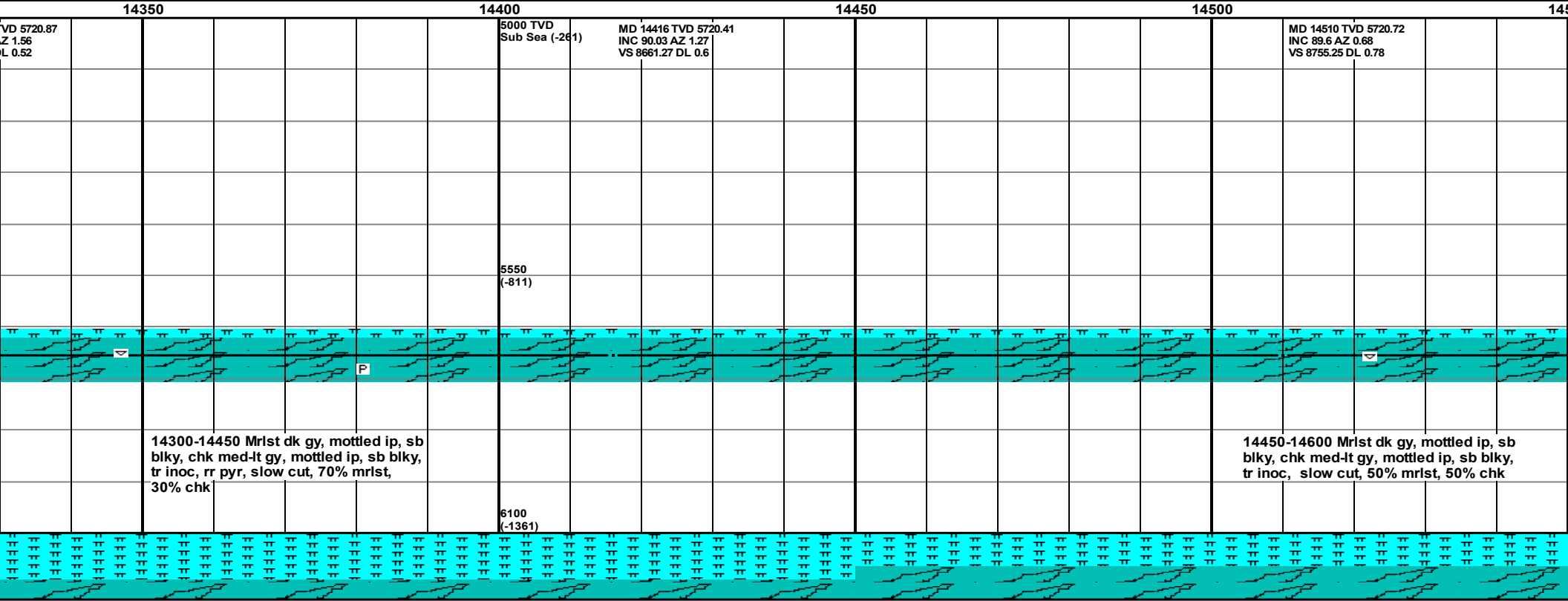
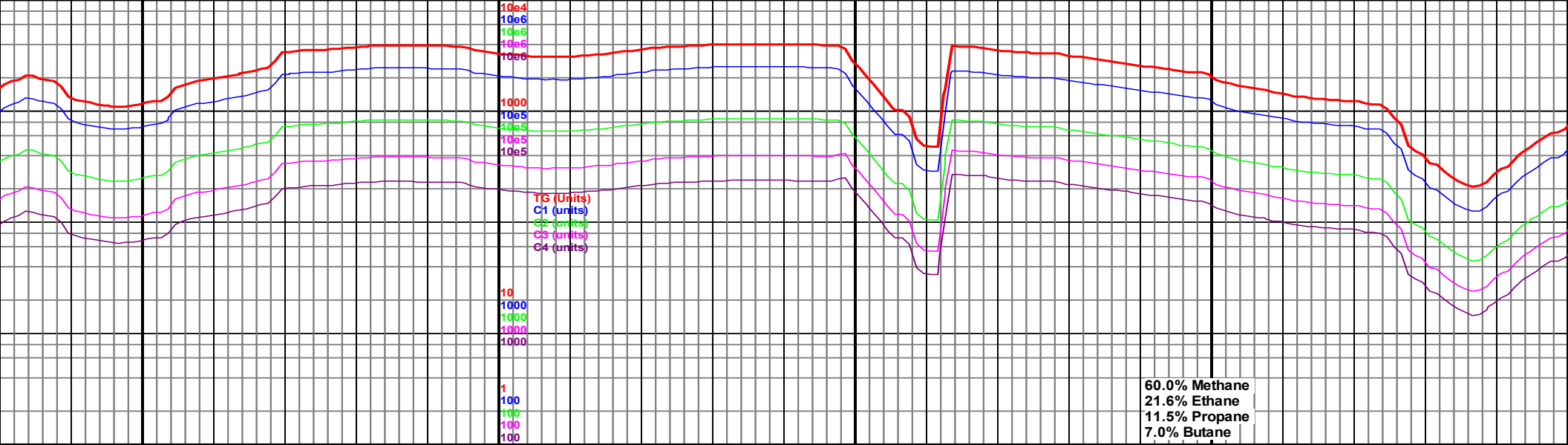


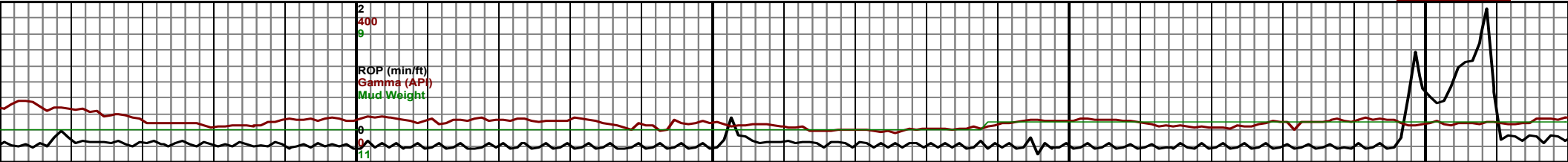
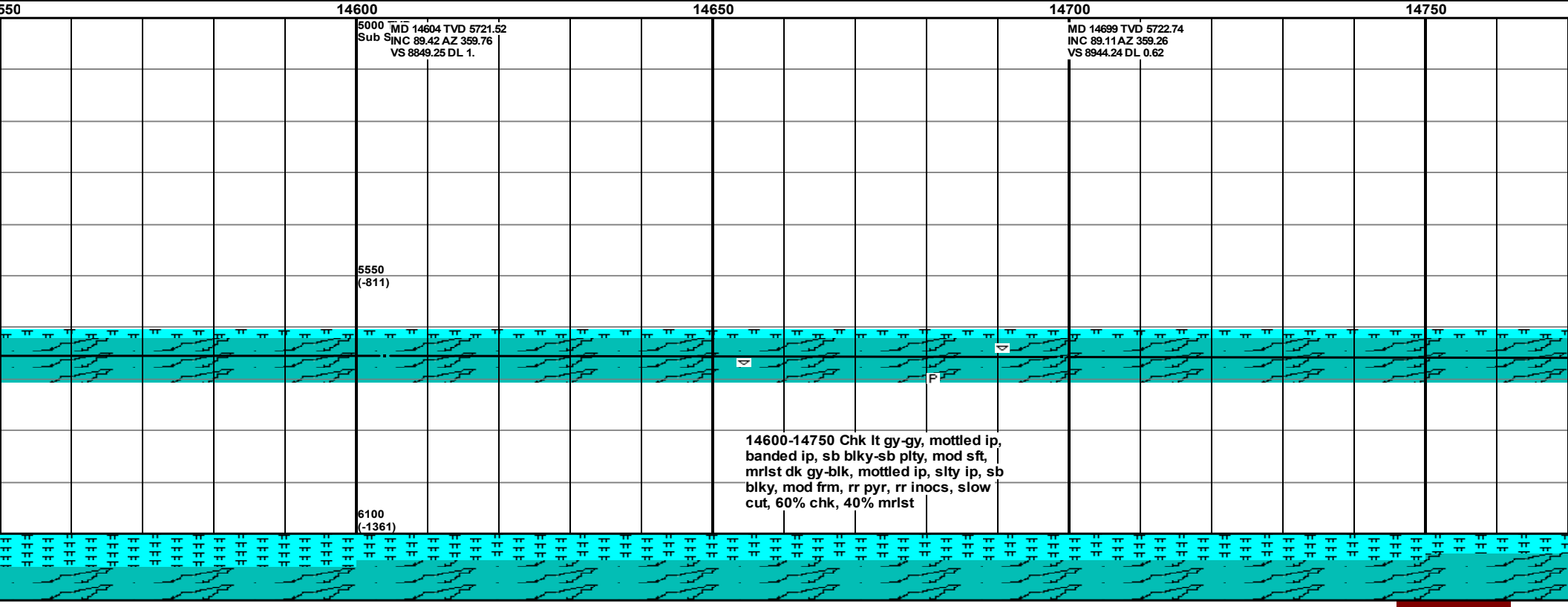
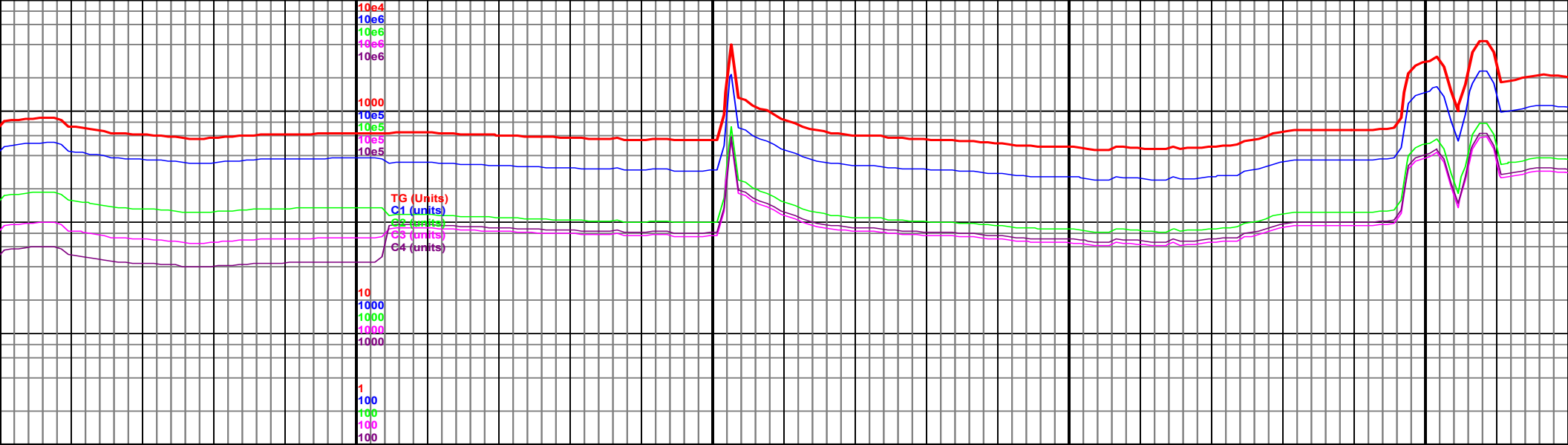


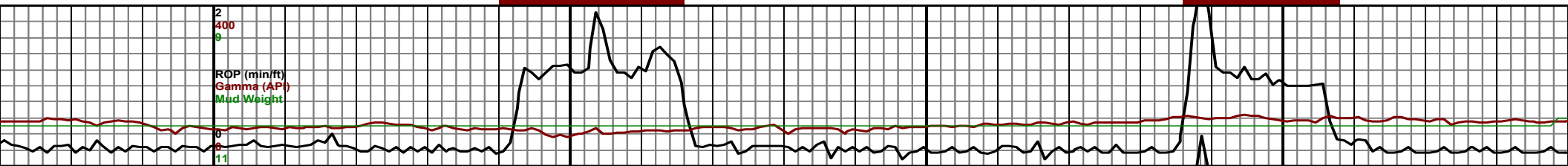
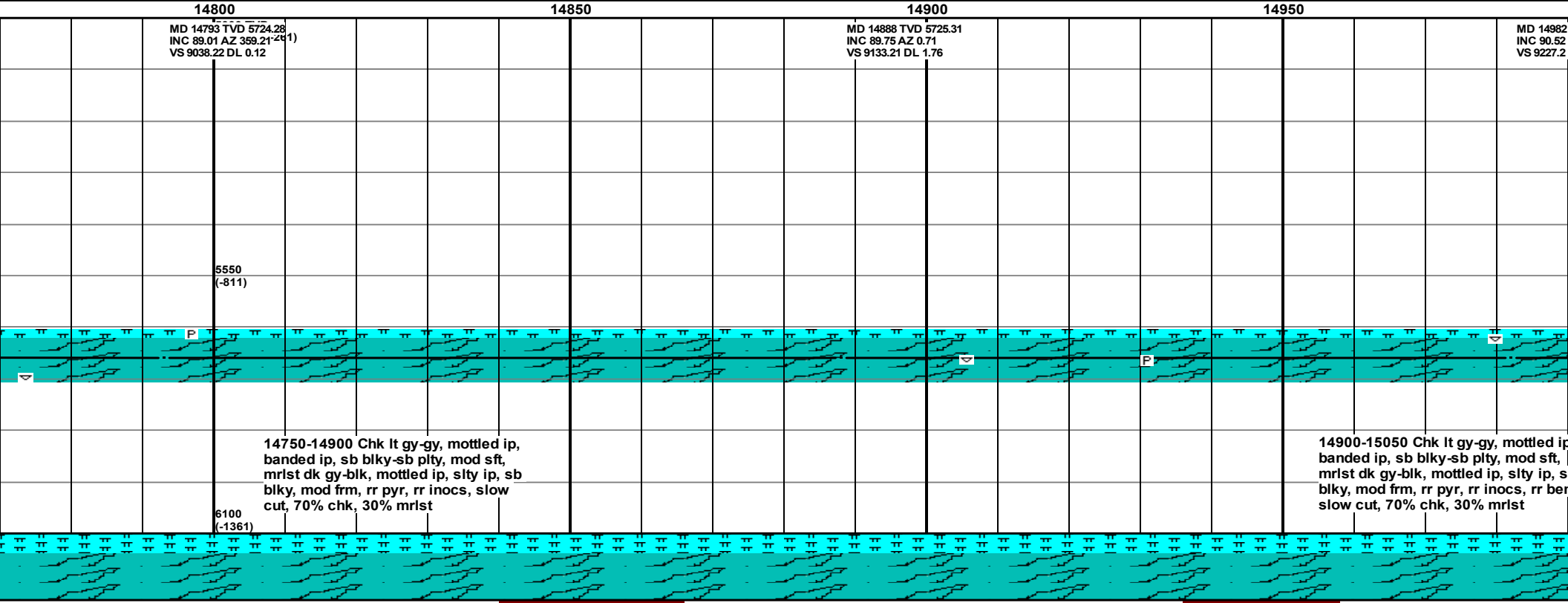
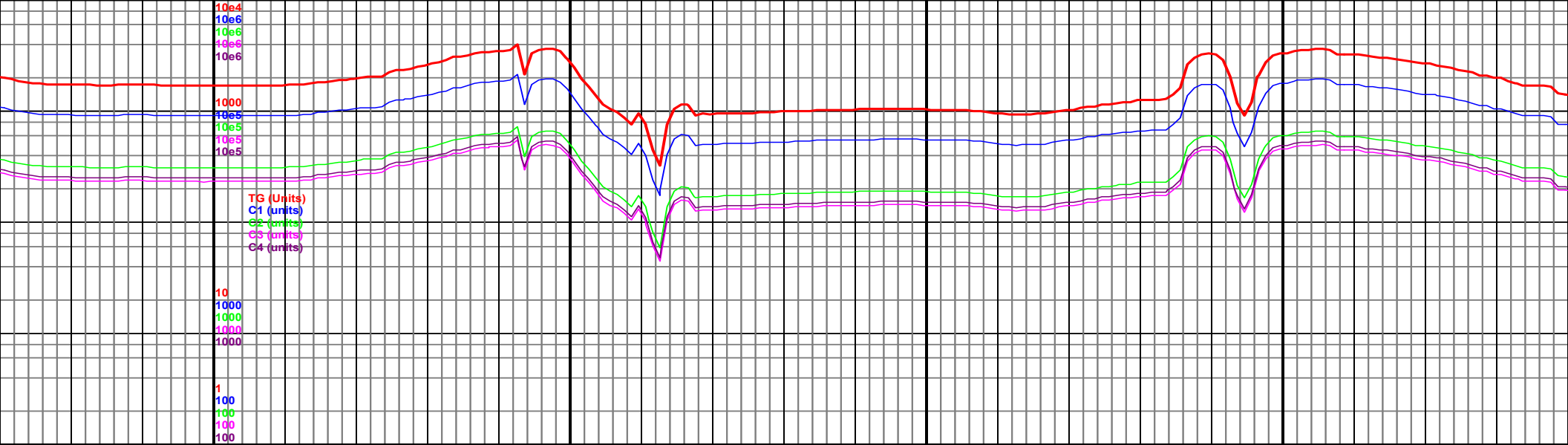
MD 14321 T
INC 90.52 A
VS 8566.3 D

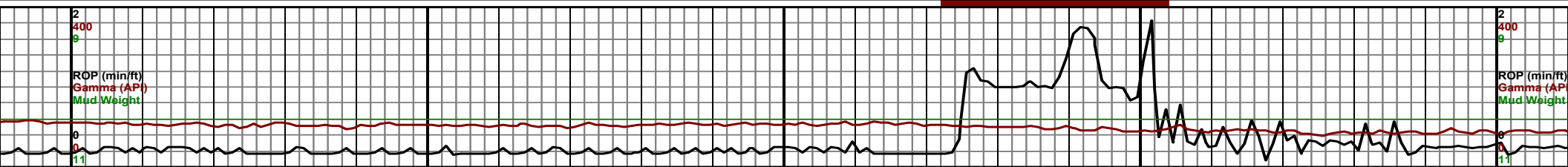
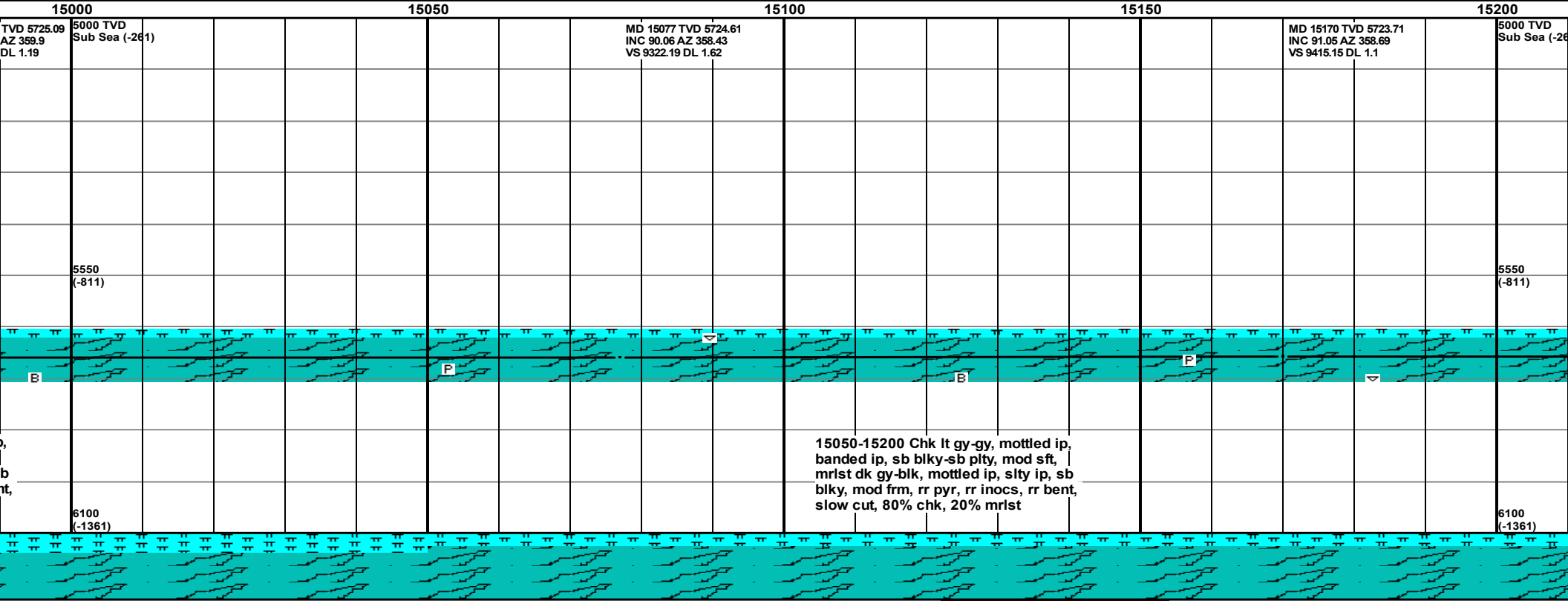
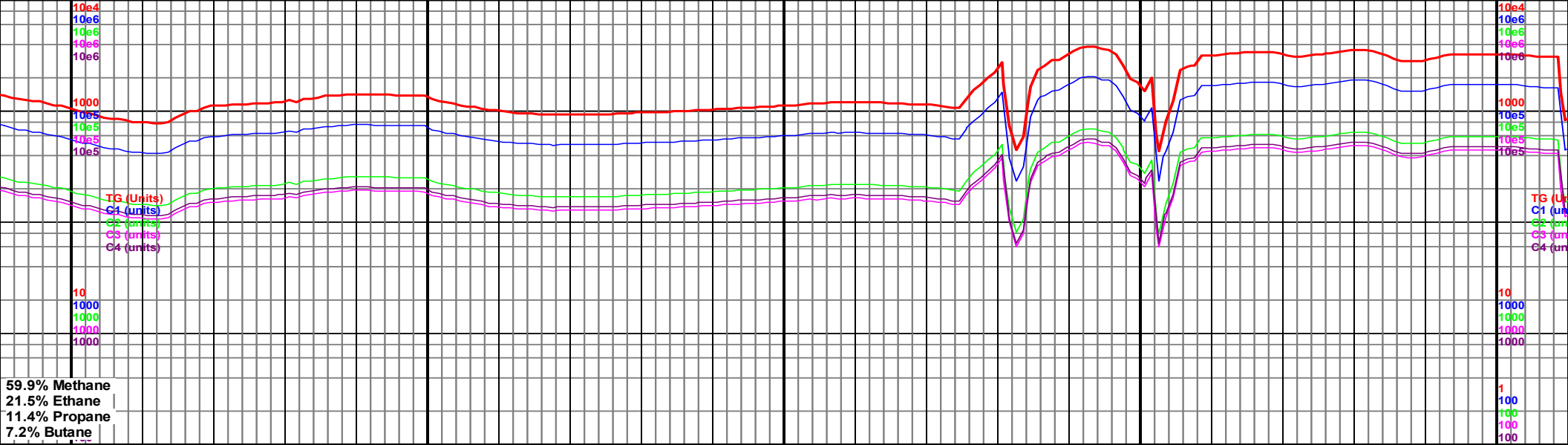
14150-14300 Mrlst dk gy, mottled ip, sb blky, chk med-lt gy, mottled ip, sb blky, tr inoc, rr pyr, rr bent, slow cut, 60% mrlst, 40% chk			
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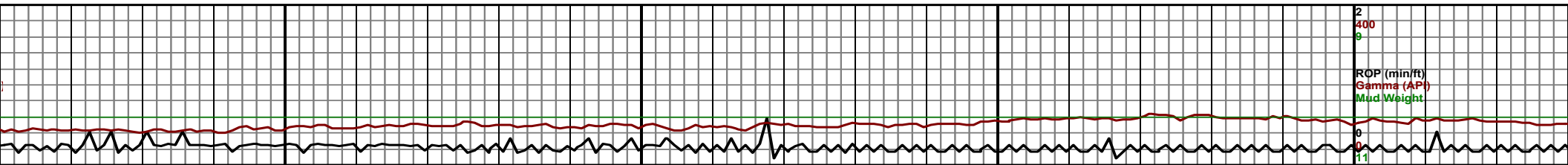
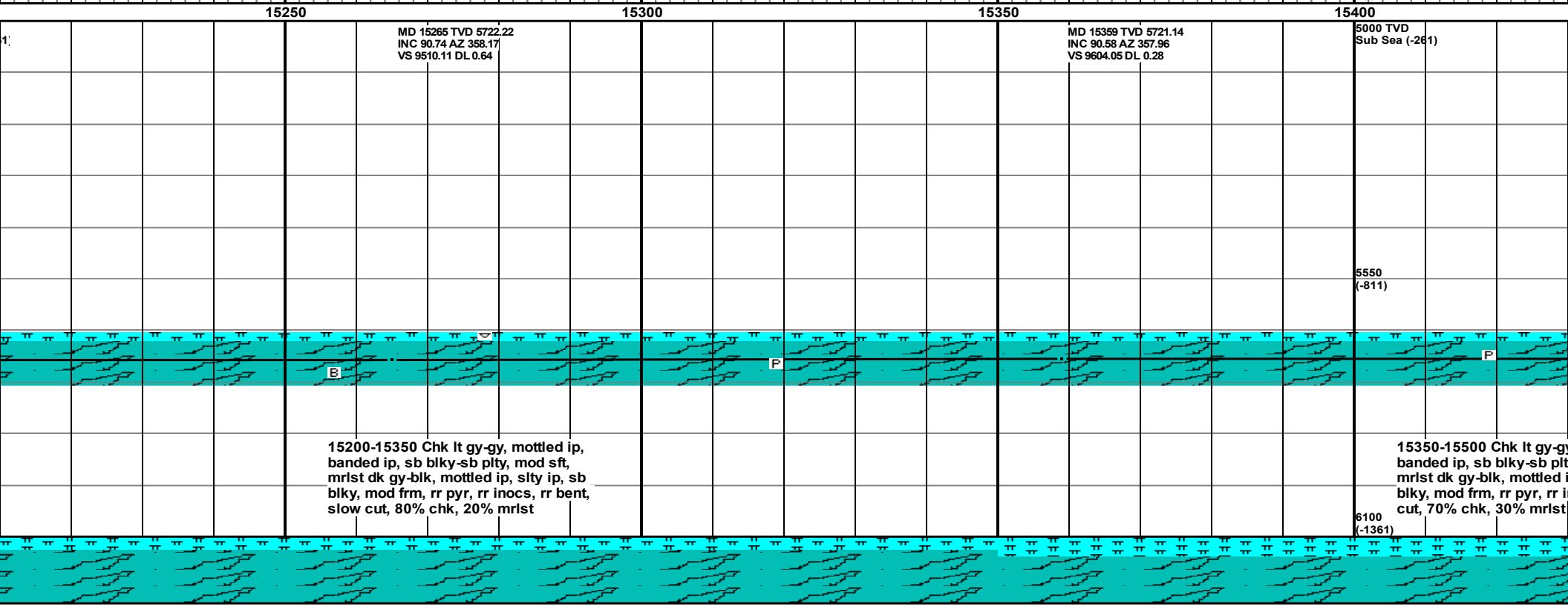
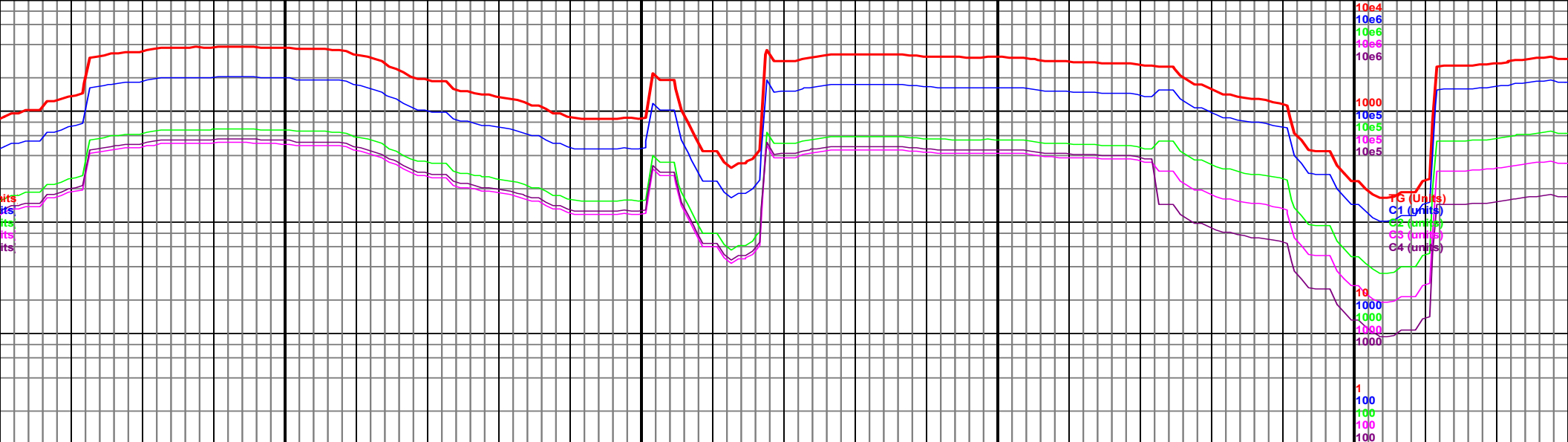
ROP (min/ft)
Gamma (API)
Mud Weight

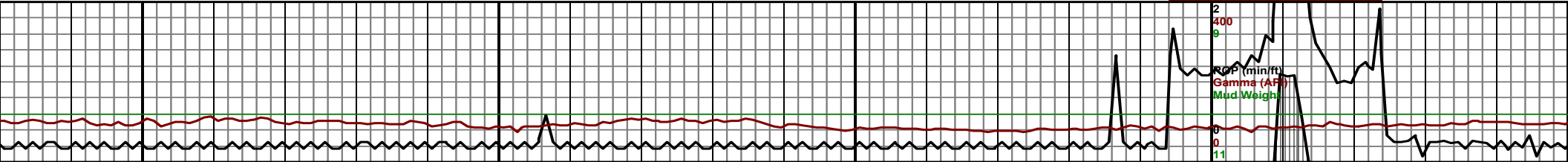
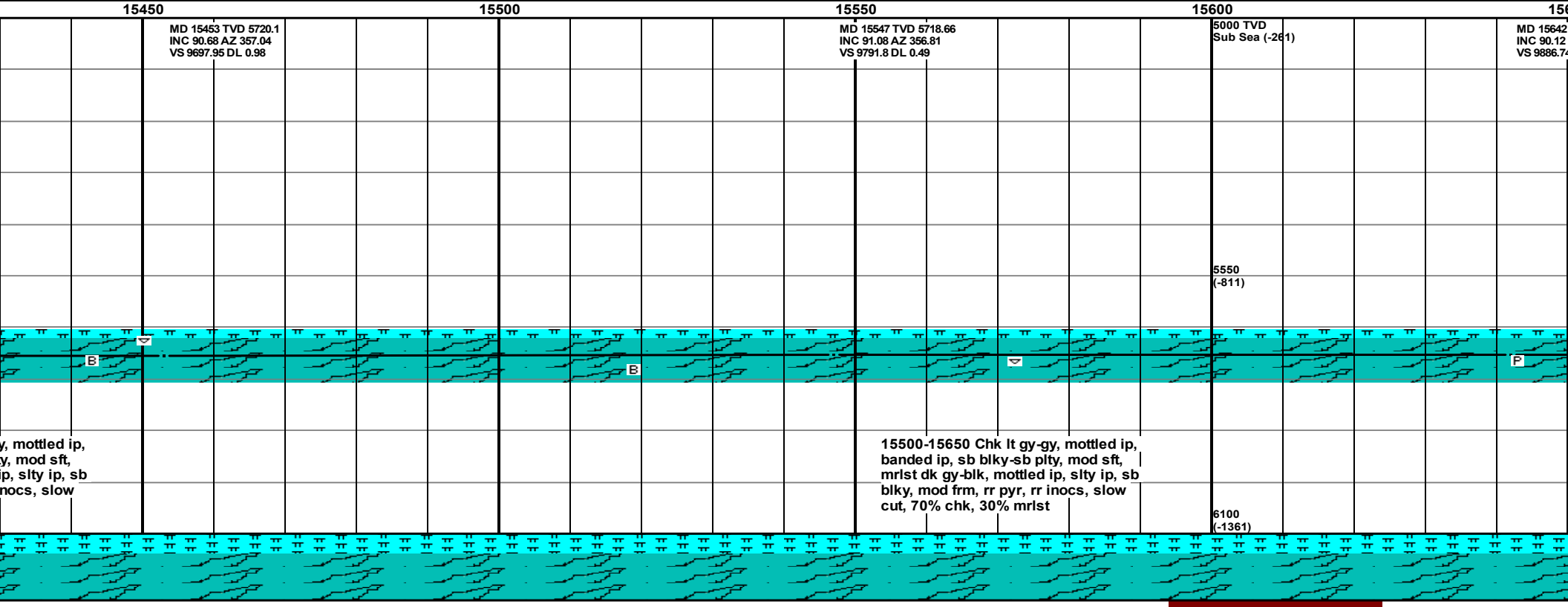
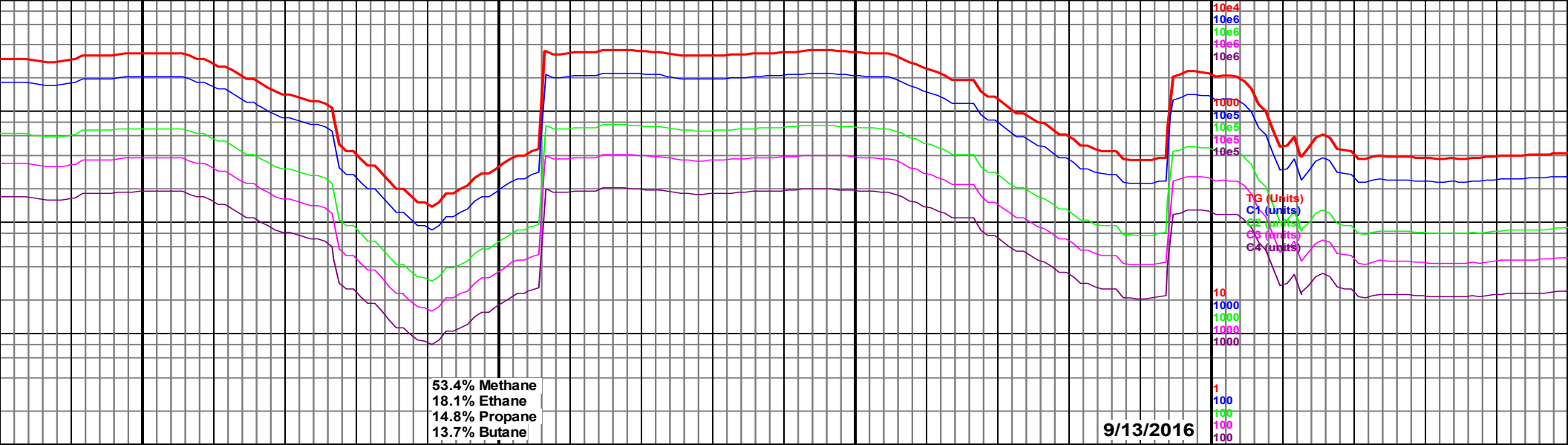


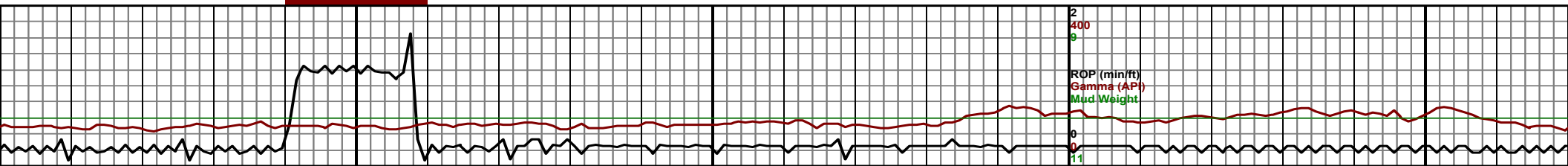
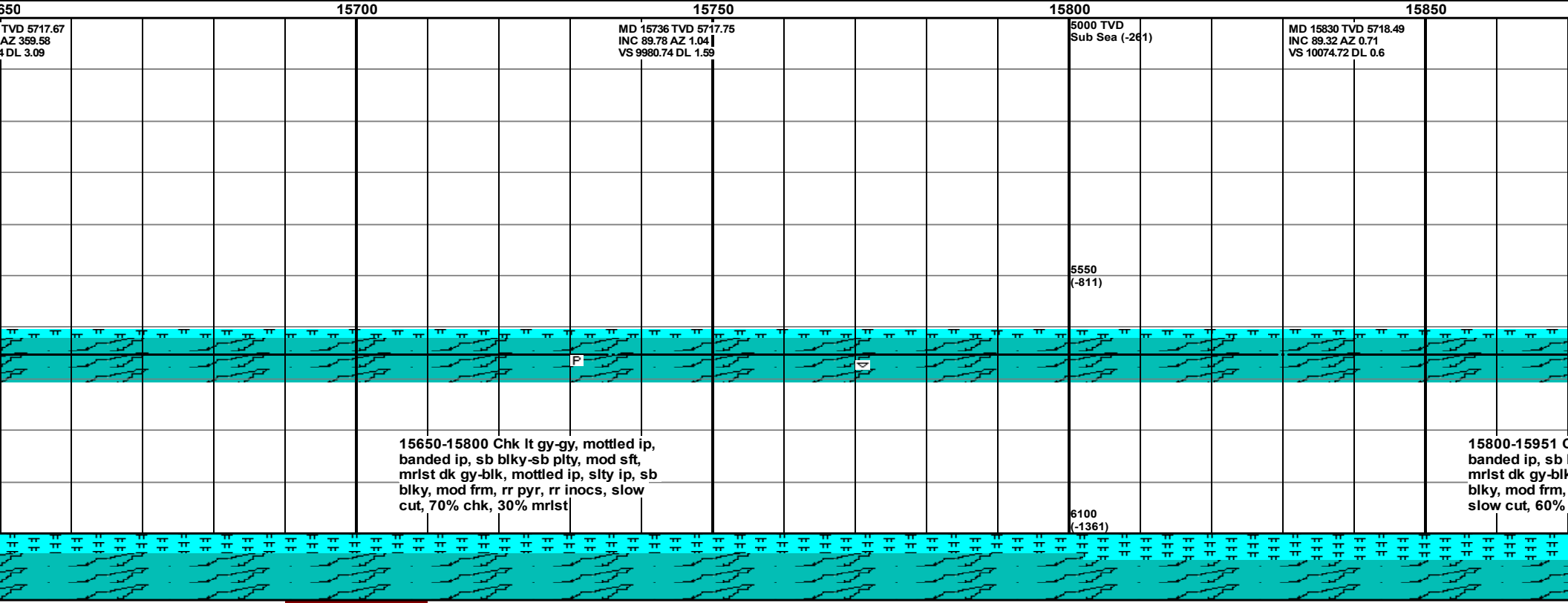
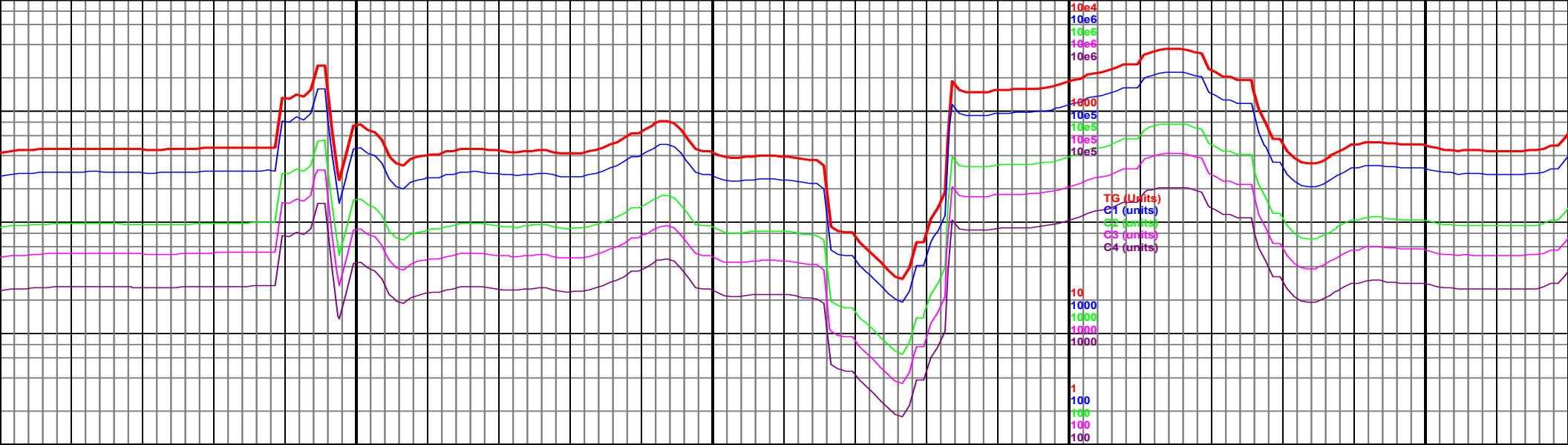


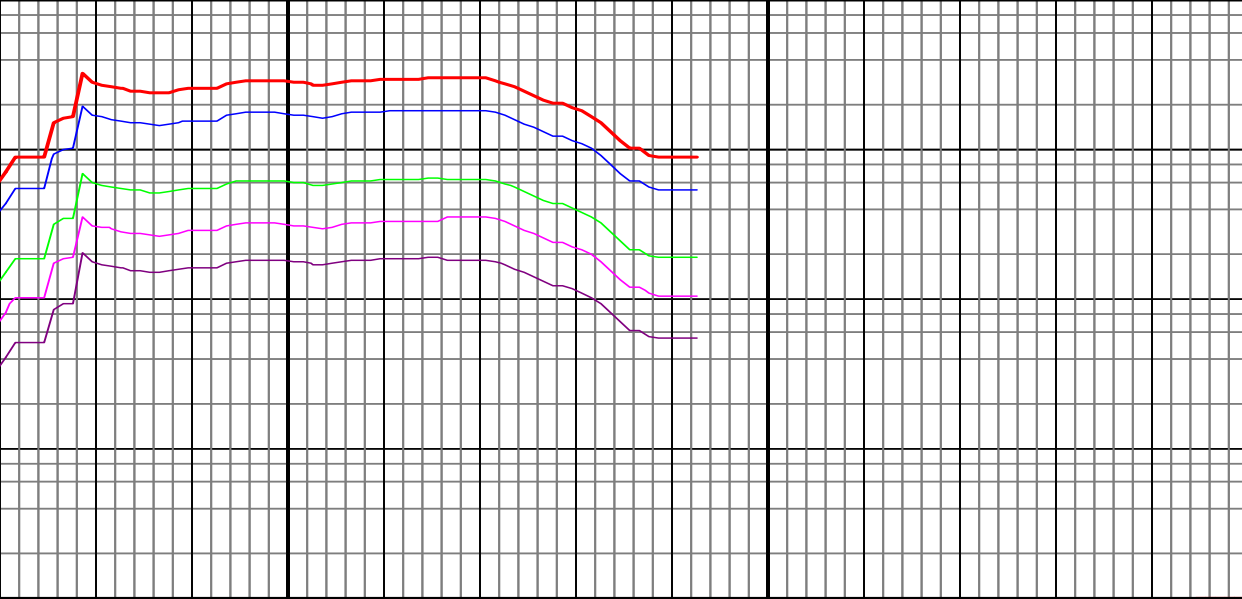












15900

15950

16

MD 15903 TVD 5719.35
INC 89.32 AZ 359.91
VS 10147.72 DL 1.1

TD of 15951' MD reached at
03:17 on 9/13/2016.



Chk lt gy-gy, mottled ip,
blky-sb plty, mod sft,
s, mottled ip, slty ip, sb
rr pyr, rr inocs, rr bent,
chk, 40% mrlst

