



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

Well Name: Razor 25O-2412  
Well Id: 051234265000  
Location: Sec 25-T10N-R58W  
License Number:  
Spud Date: 8/24/2016  
Surface Coordinates: 40.803461  
-103.810089

Region: Wildcat Field  
Drilling Completed: 8/29/2016

Bottom Hole  
Coordinates:  
Ground Elevation (ft): 4718  
Logged Interval (ft): 4900 To: 15835  
Formation: Niobrara  
Type of Drilling Fluid: Water Based Mud

K.B. Elevation (ft): 4739  
Total Depth (ft): 15835

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

#### OPERATOR

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

#### GEOLOGIST

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

## Drilling Company

Unit Drilling Company  
Rig 406

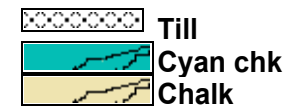
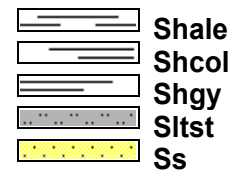
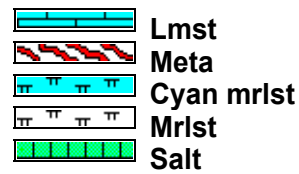
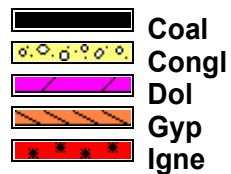
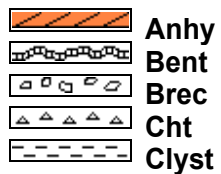
## Gas Detection

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

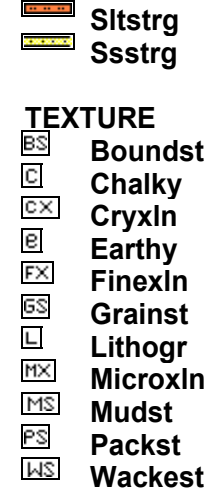
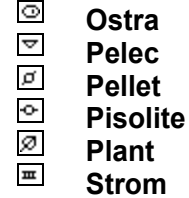
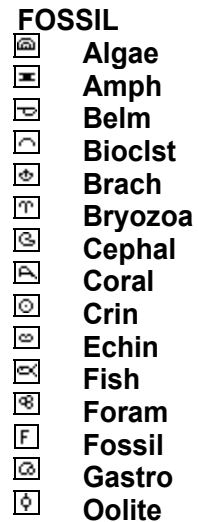
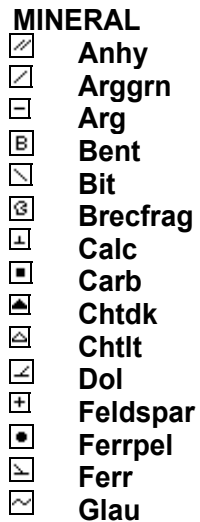
## Comments

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



## ACCESSORIES




**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**

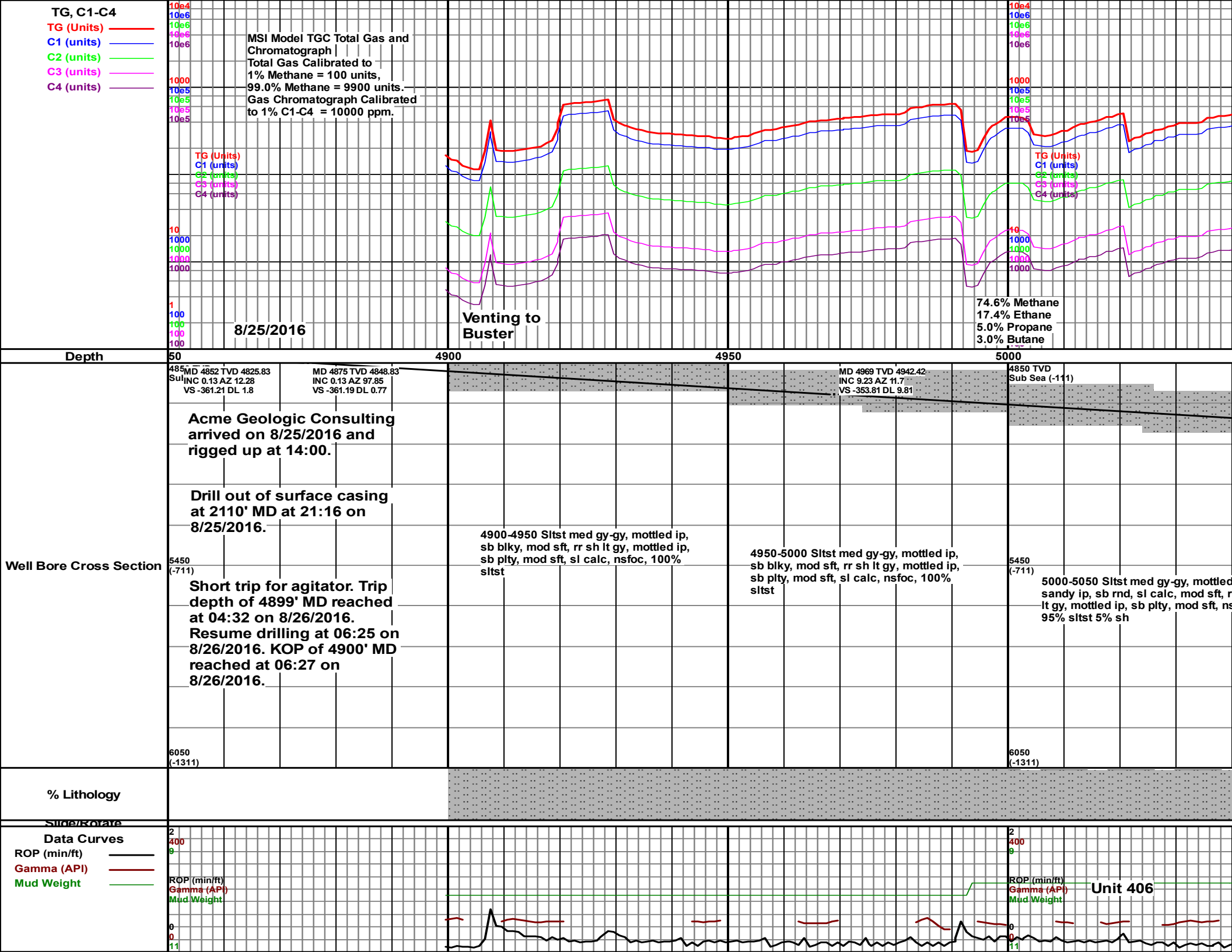
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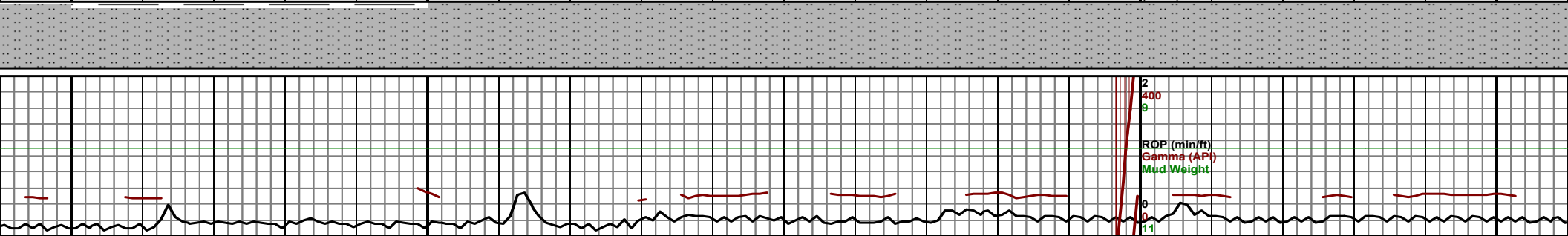
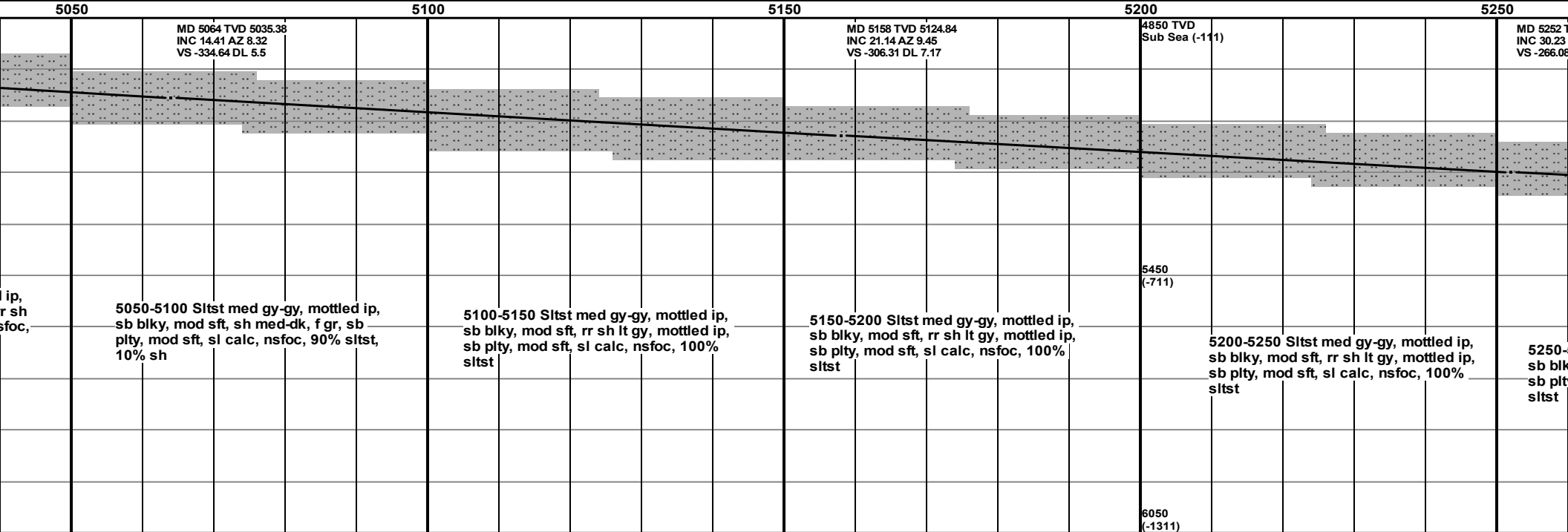
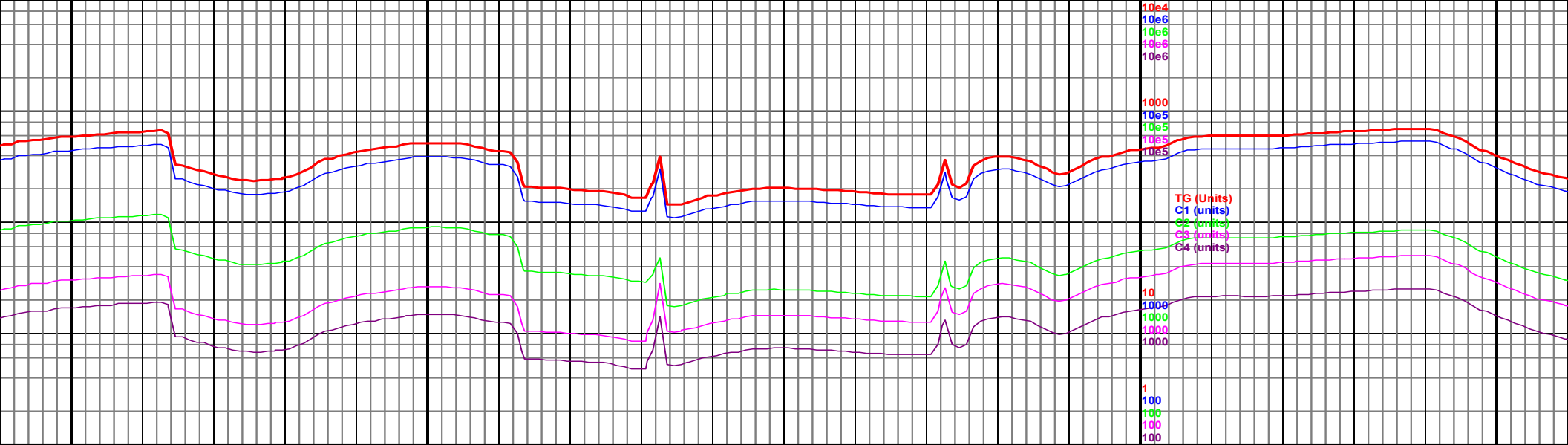


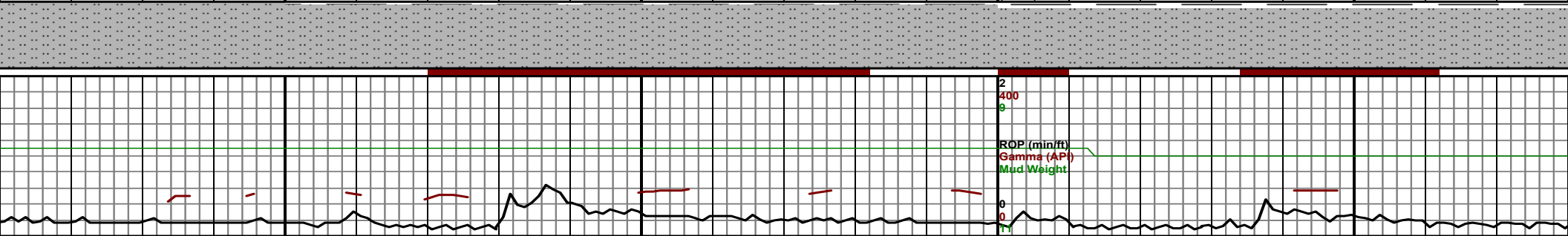
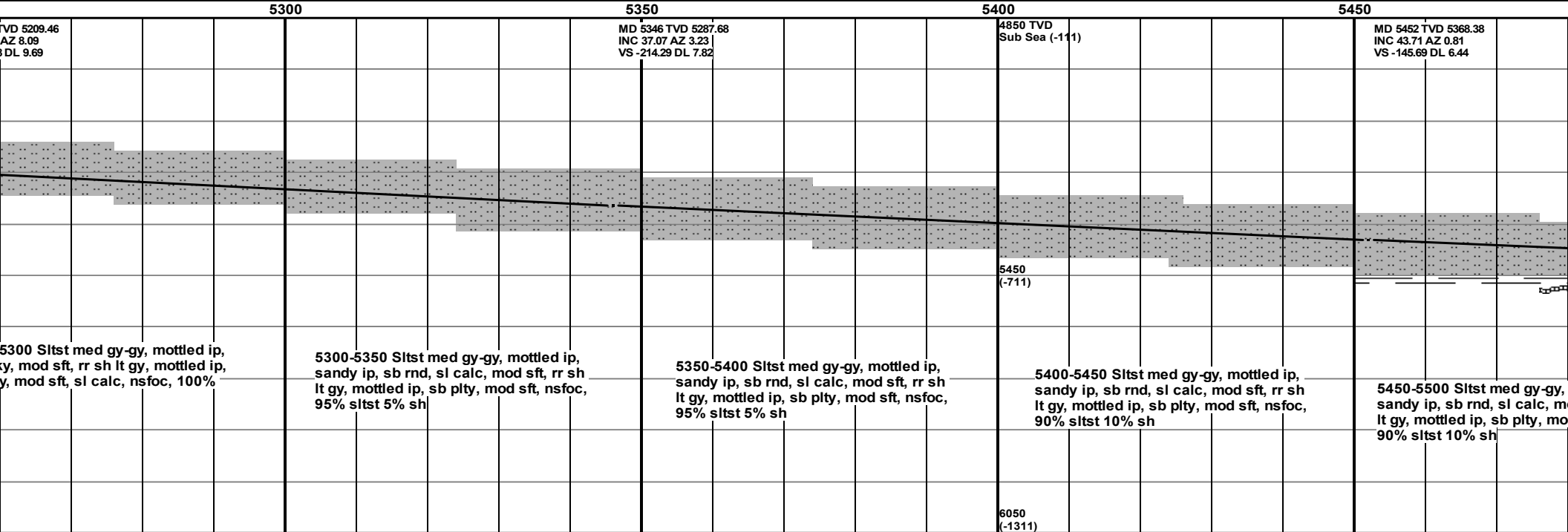
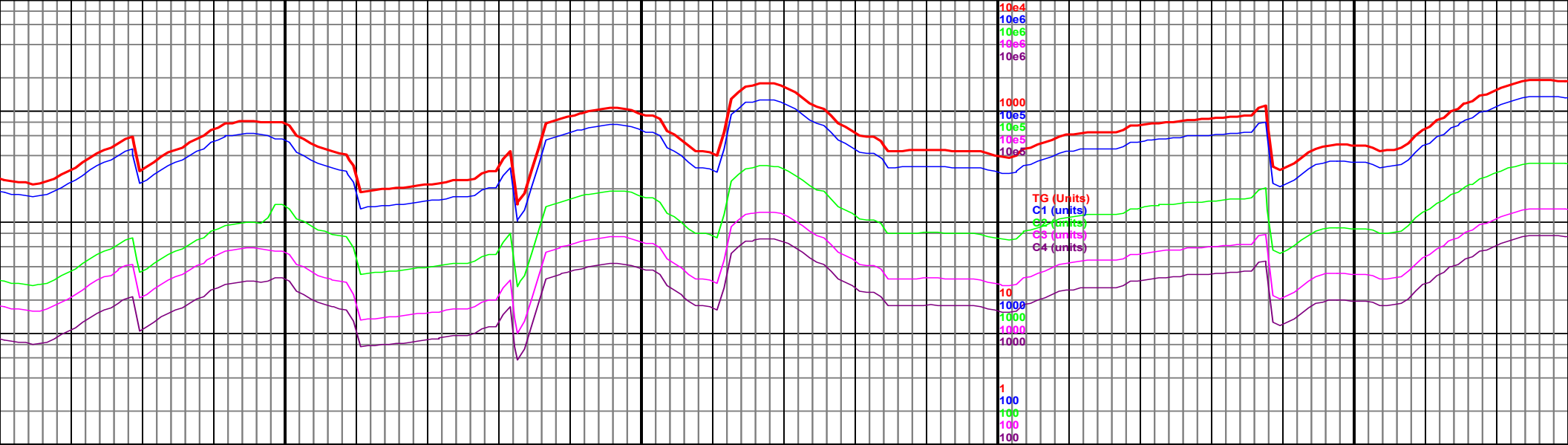
**Rft**



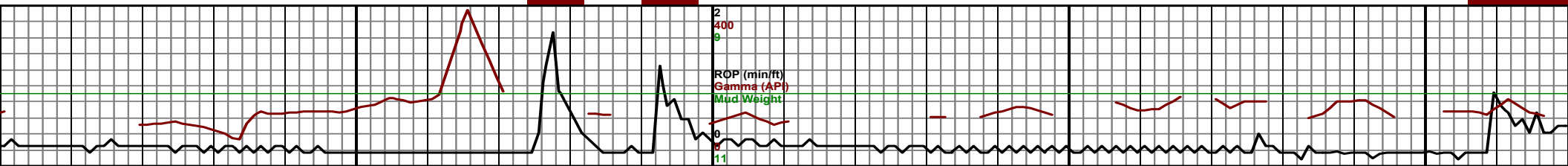
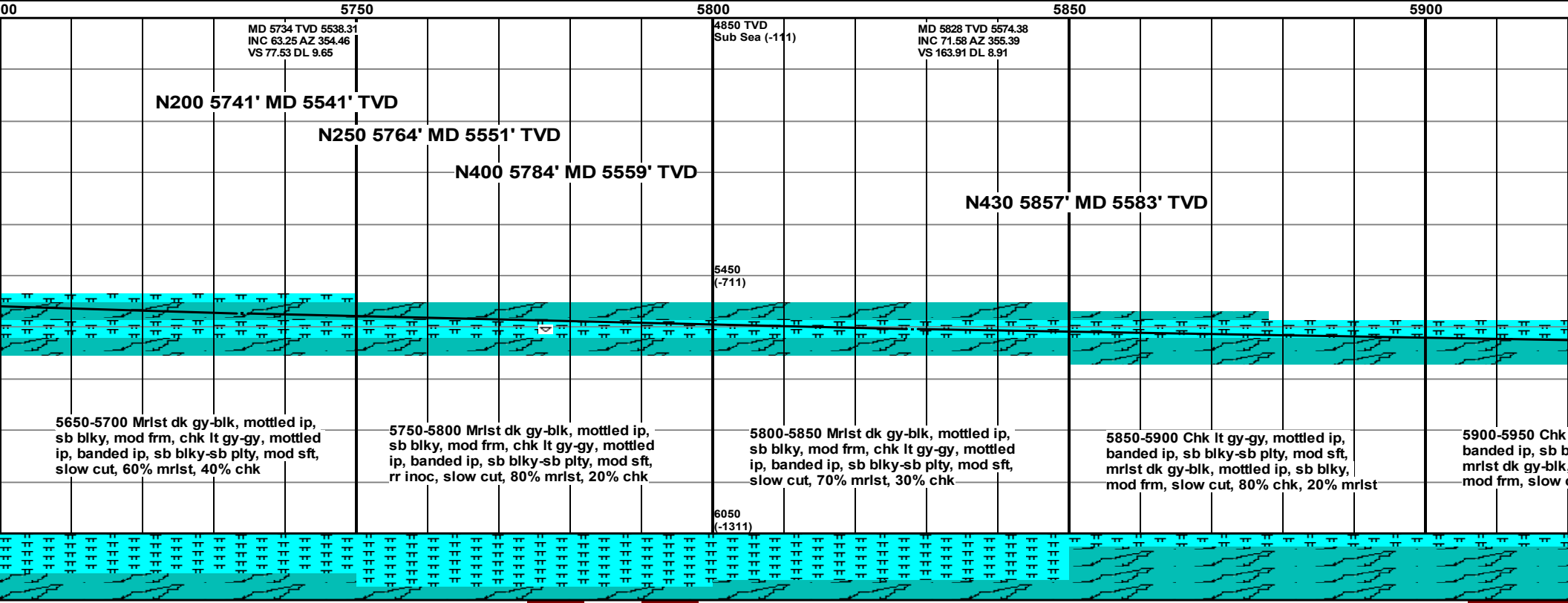
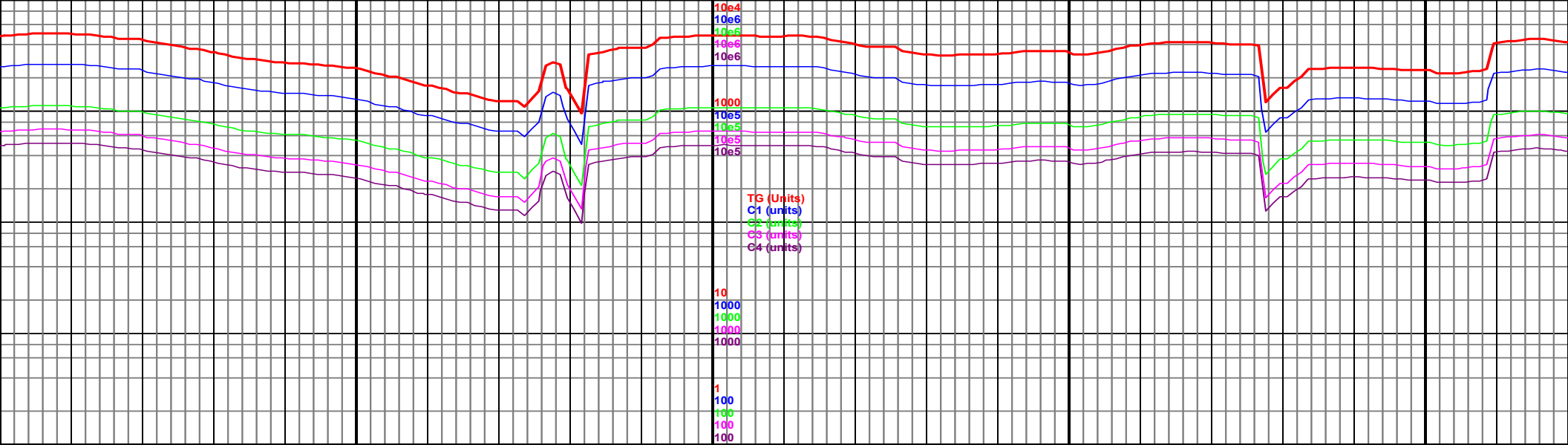
**Sidewall**



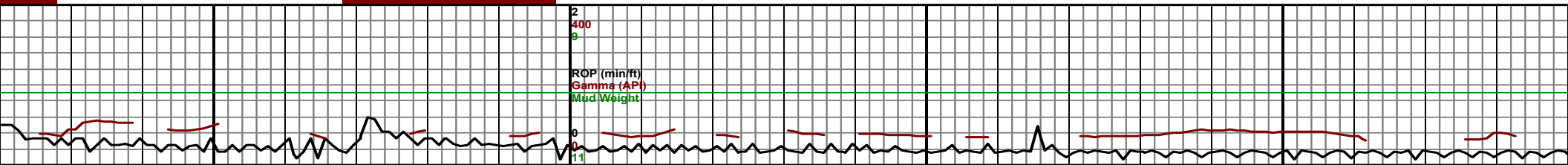
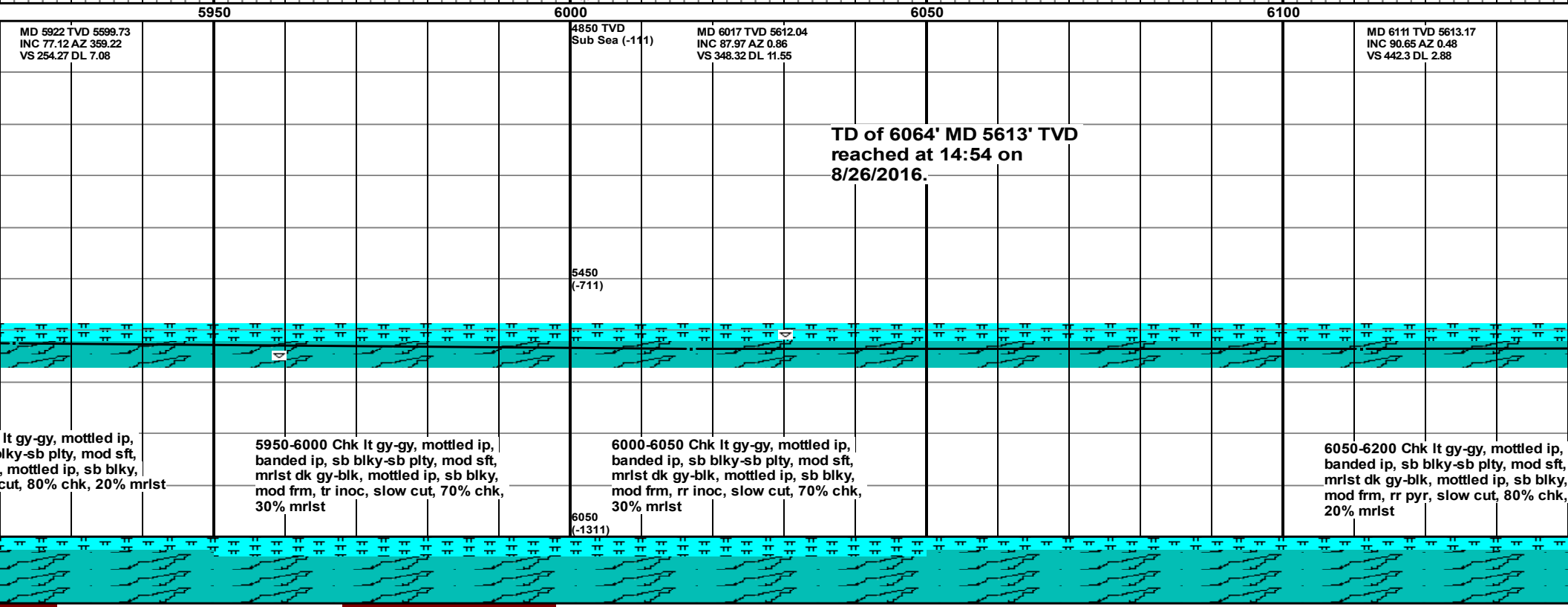
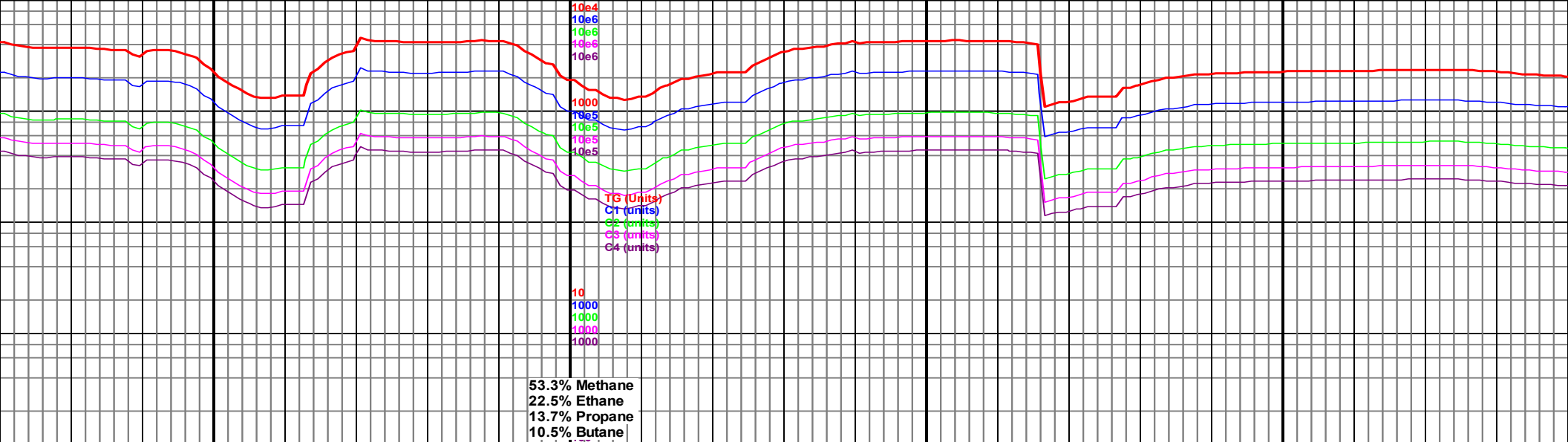


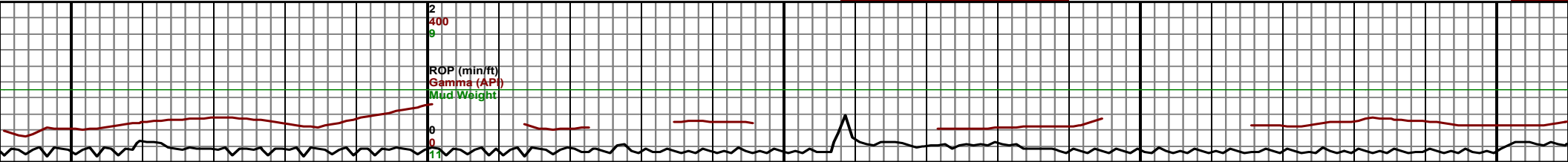
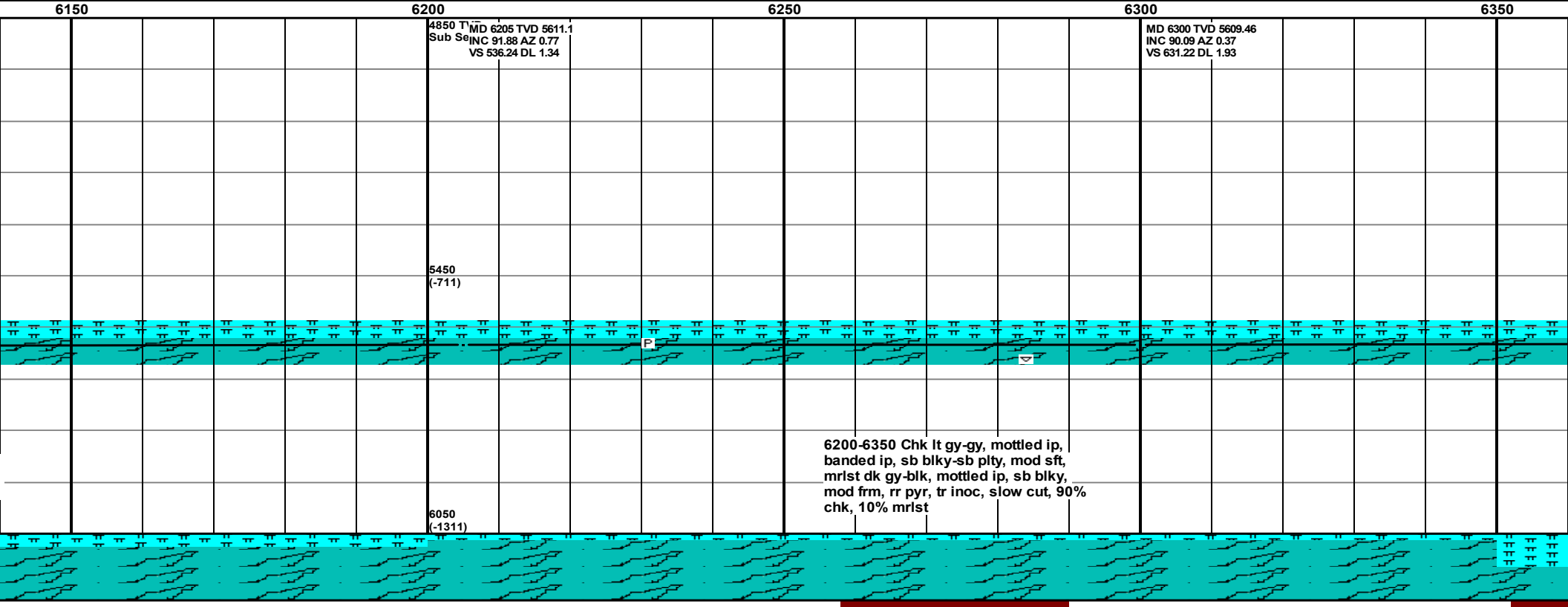
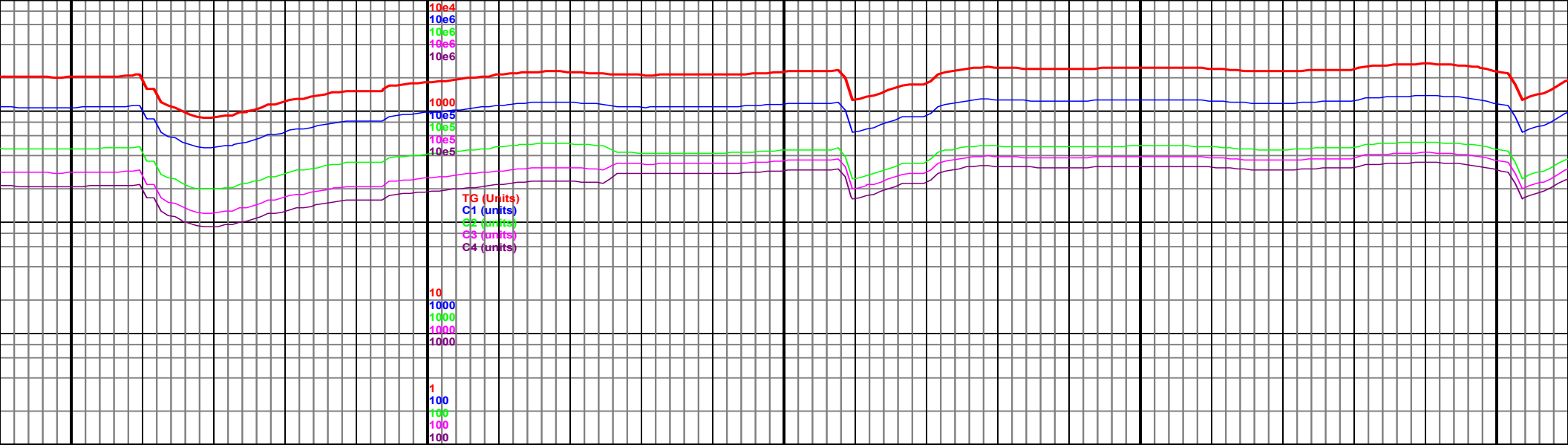




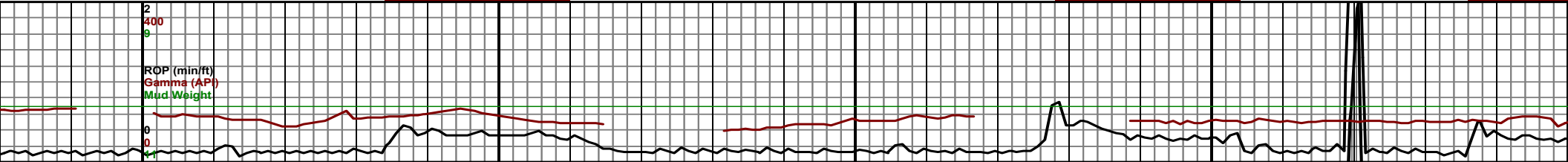
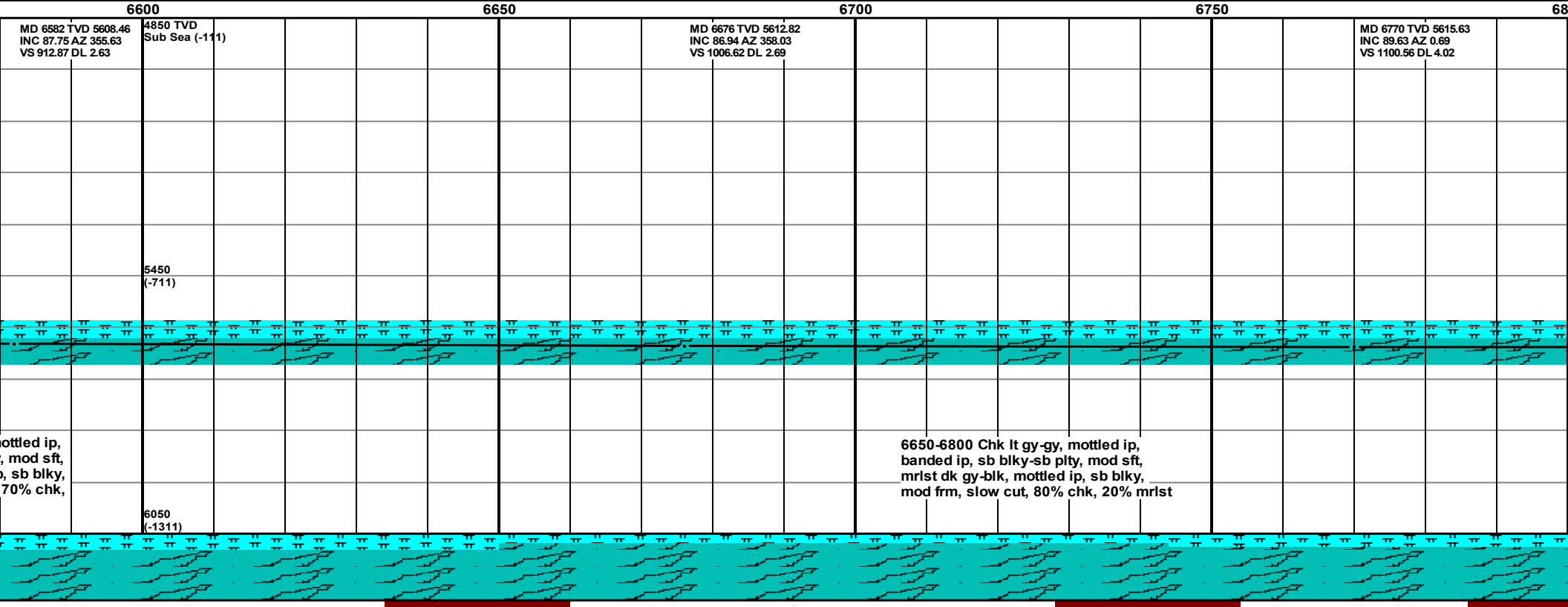
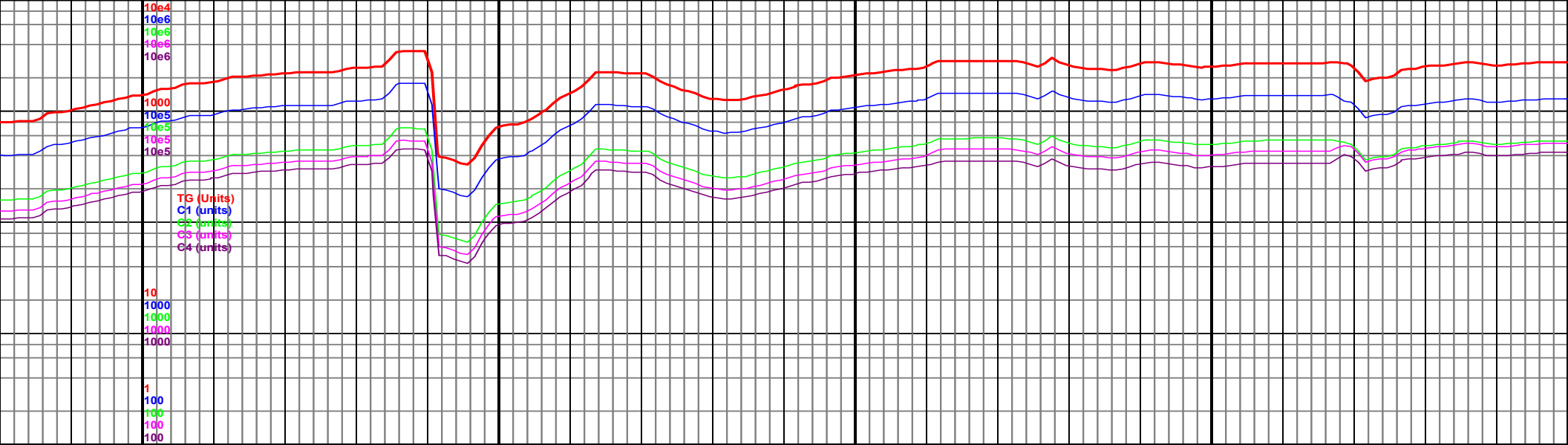


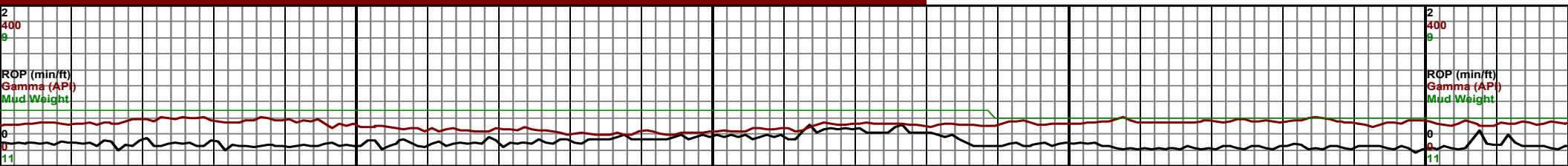
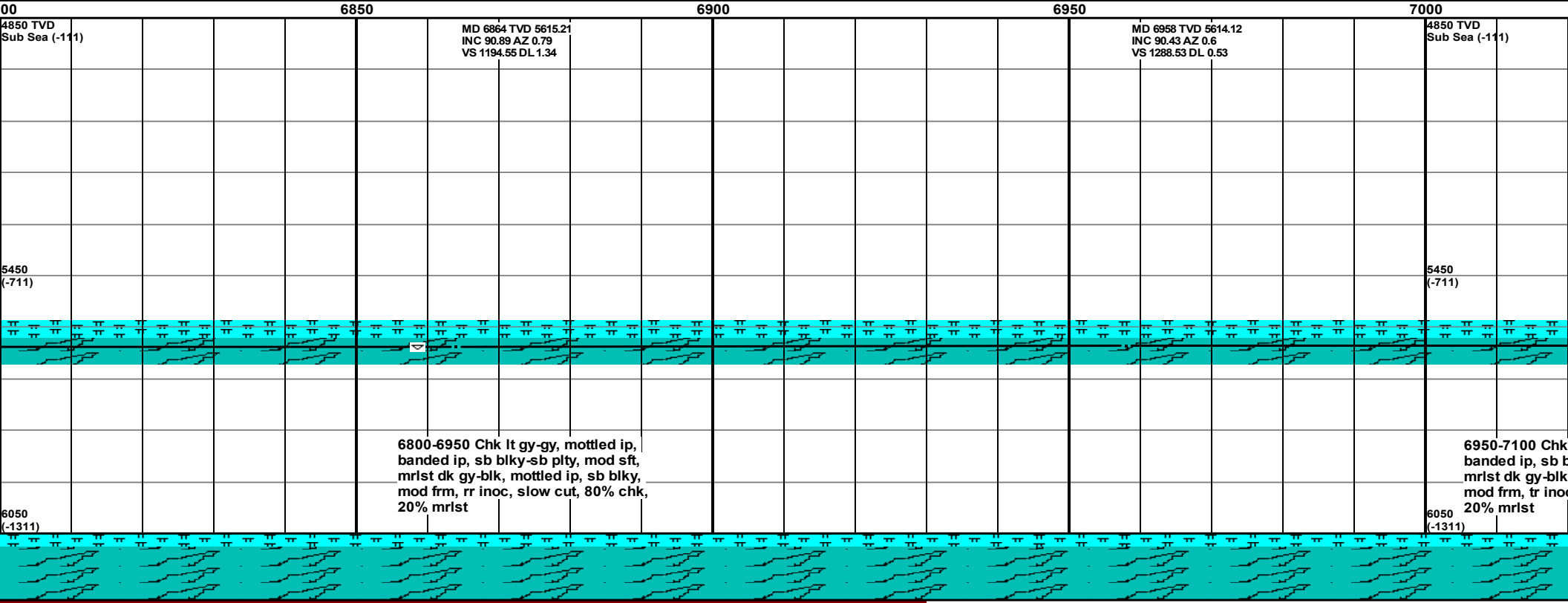
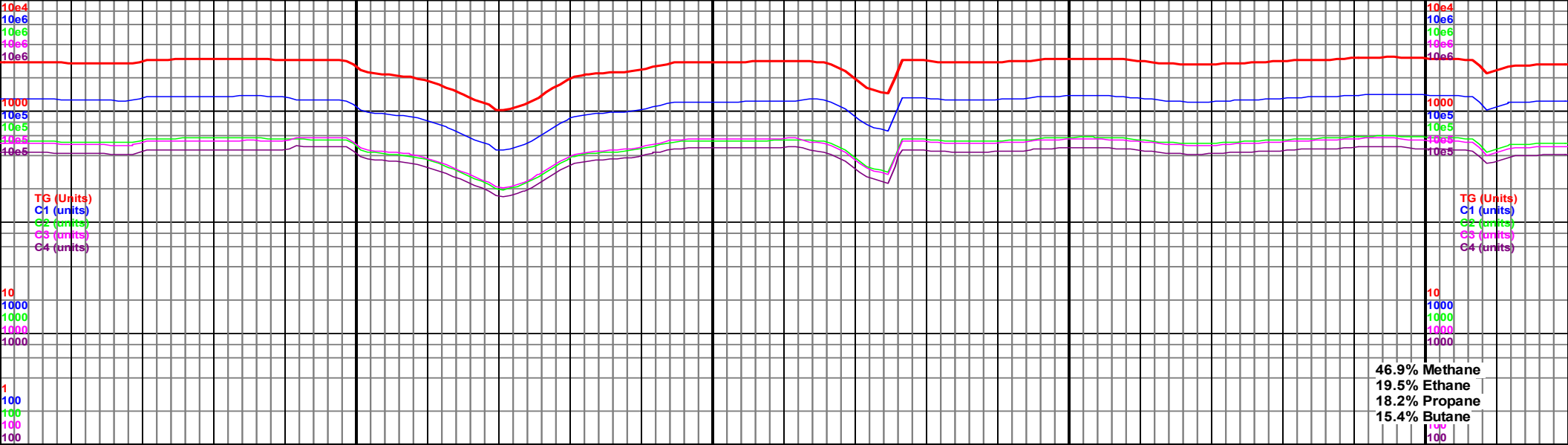


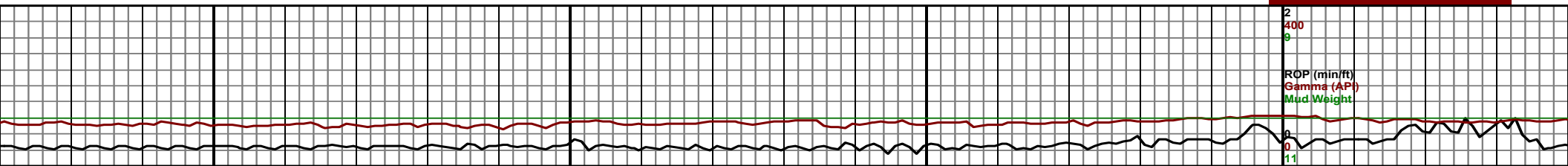
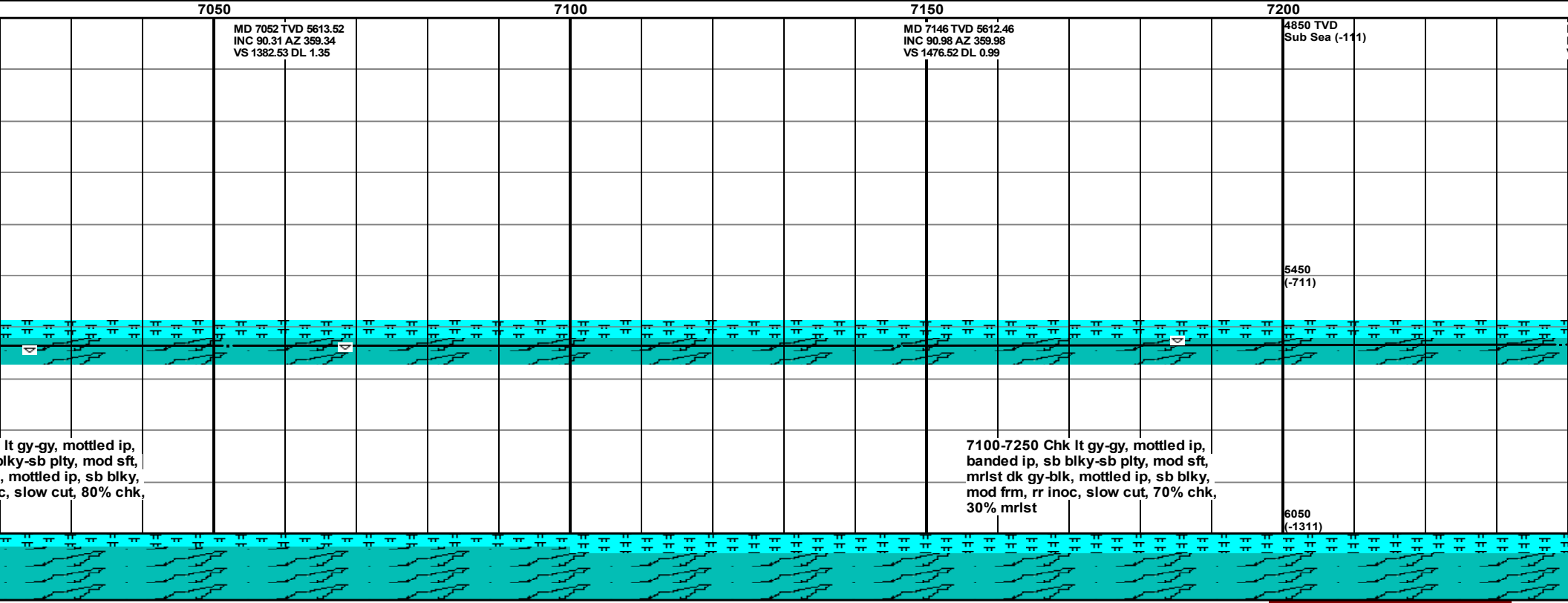
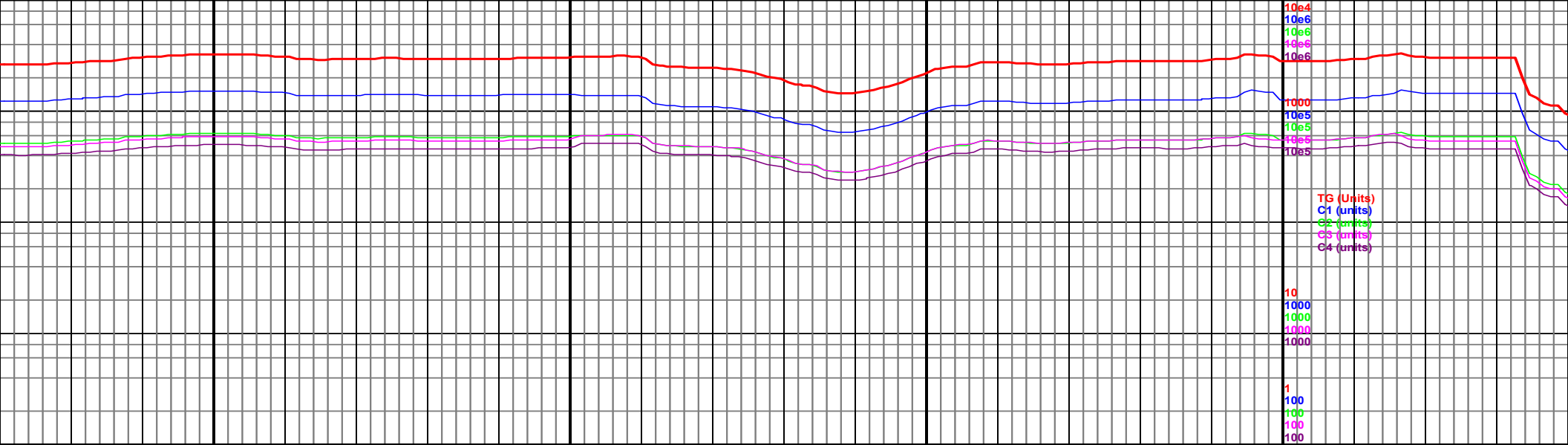








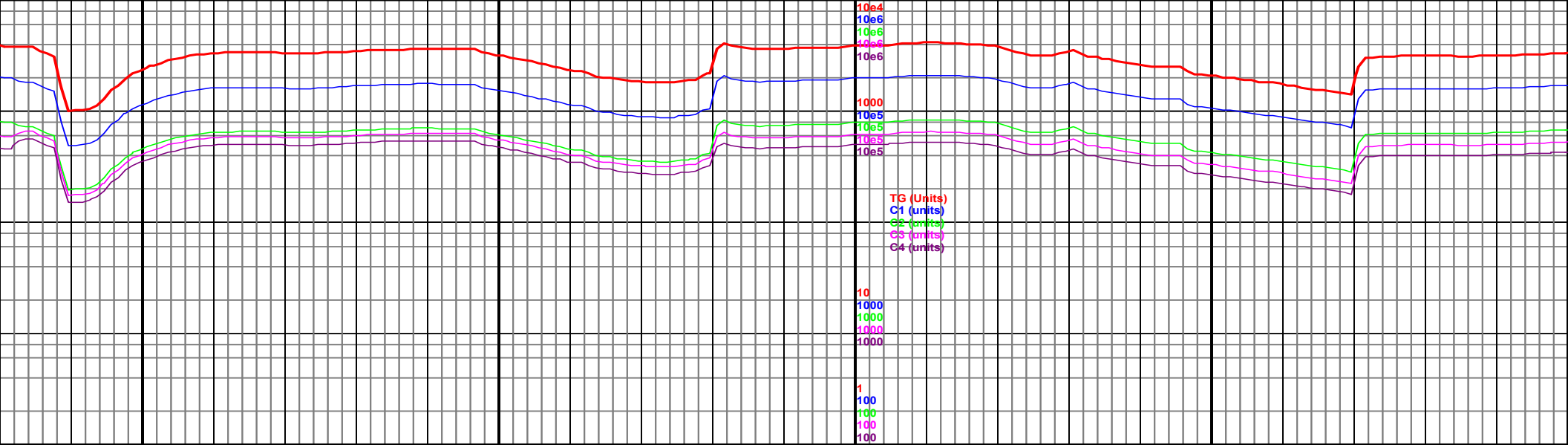












7700

7750

7800

7850

7900

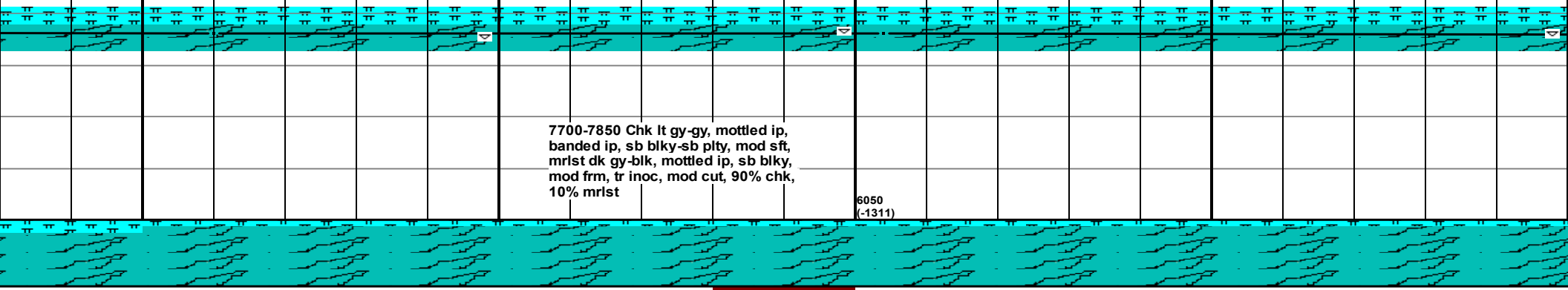
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INC 89.82 AZ 359.1  
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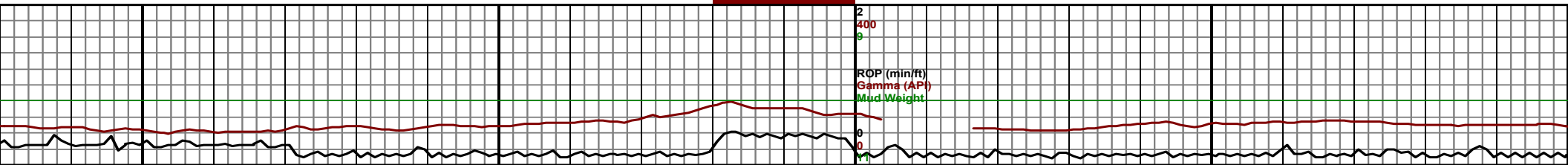
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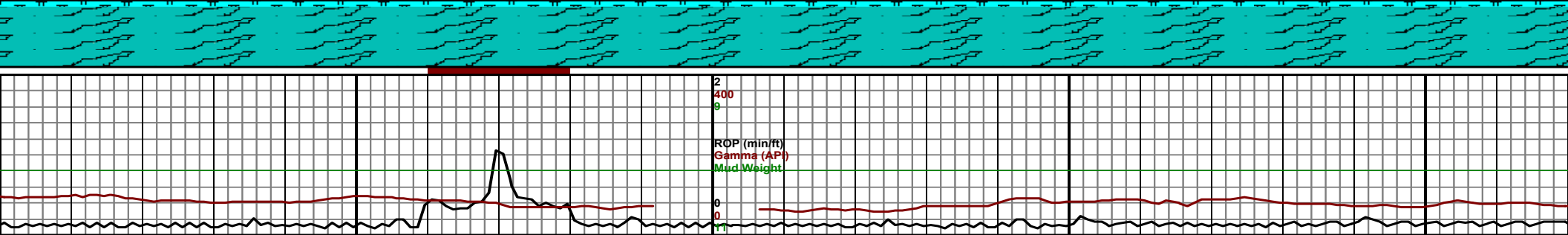
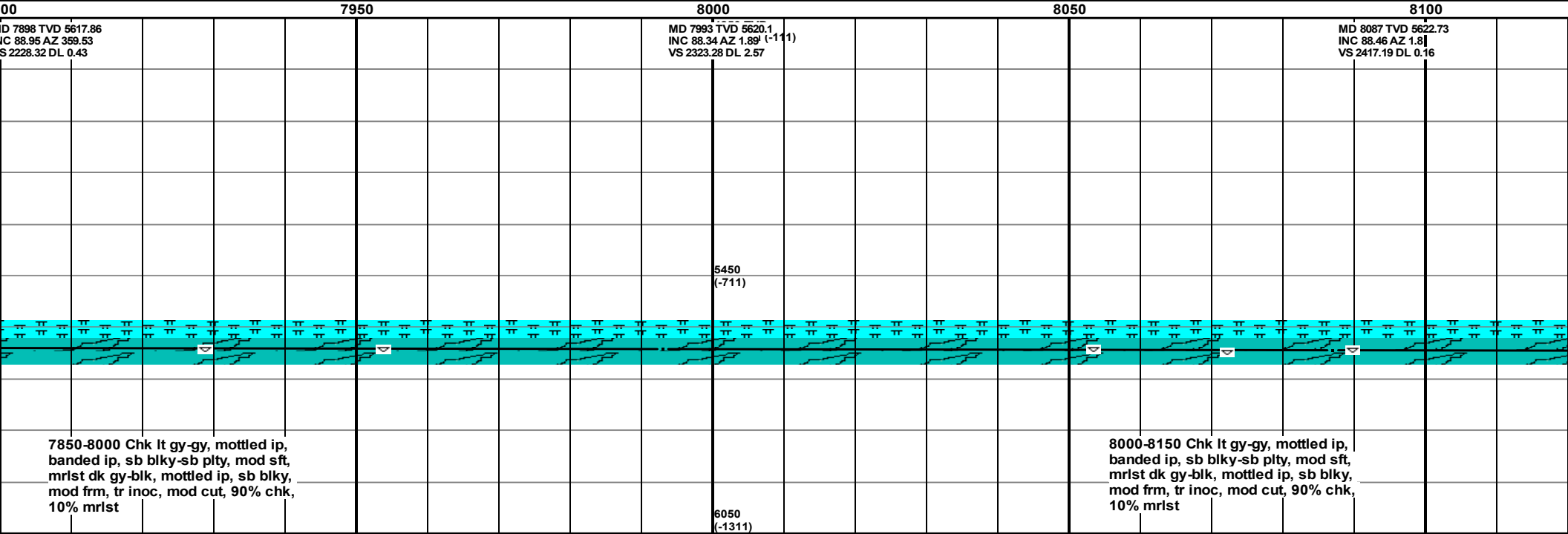
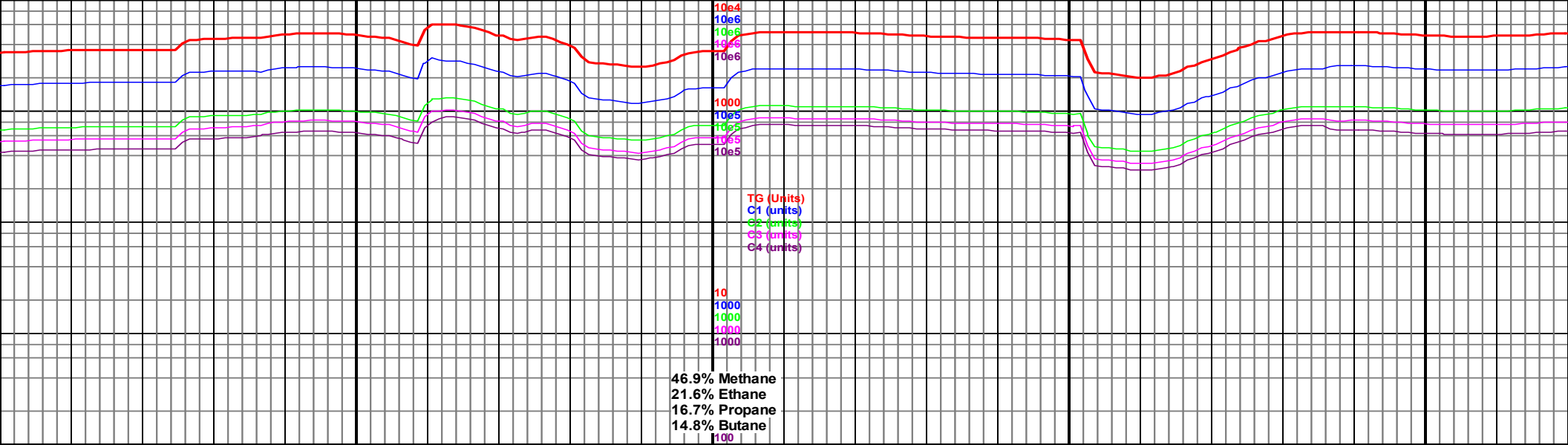
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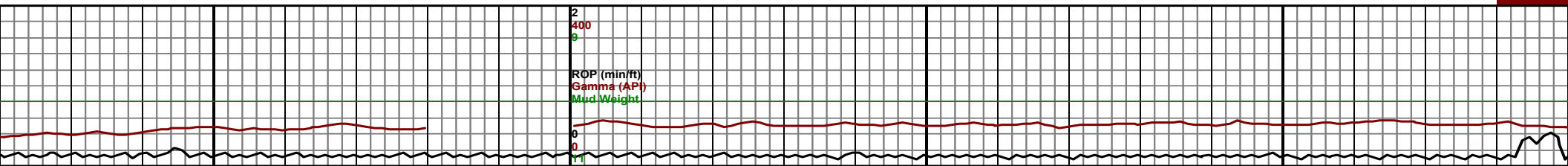
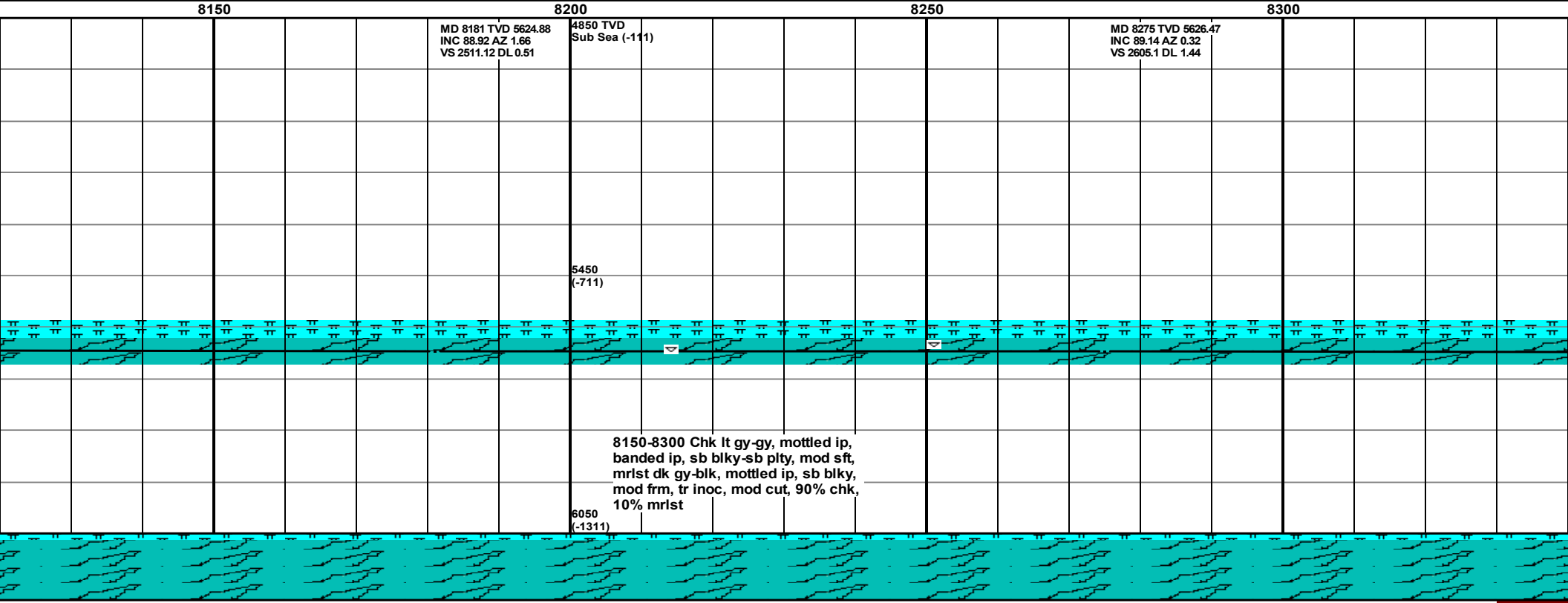
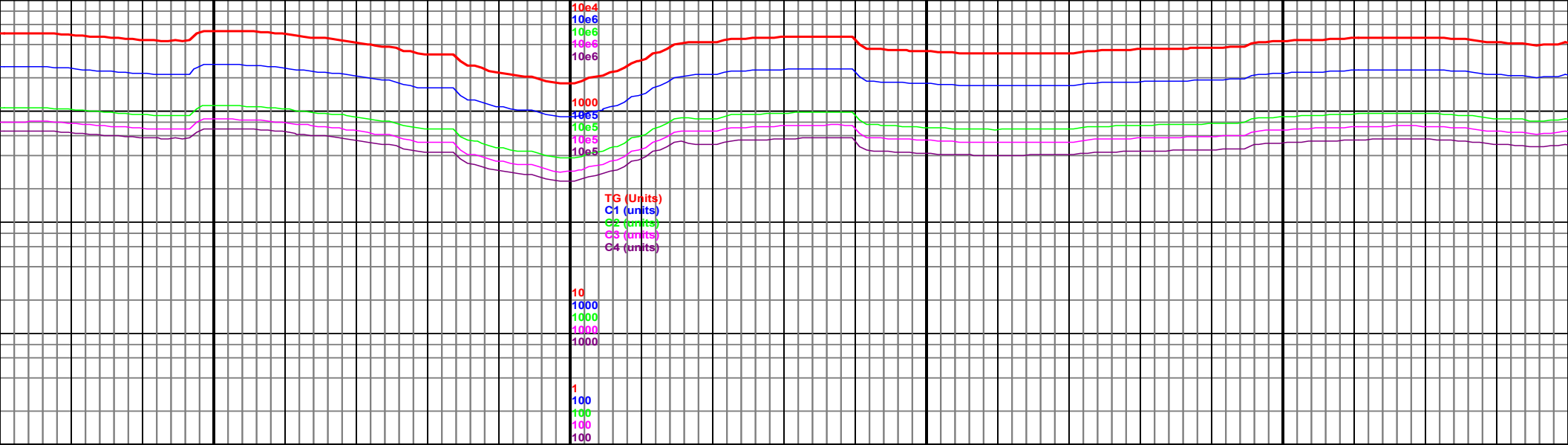
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banded ip, sb blk-y-sb plty, mod sft,  
mrlst dk gy-blk, mottled ip, sb blk,  
mod frm, tr inoc, mod cut, 90% chk,  
10% mrlst

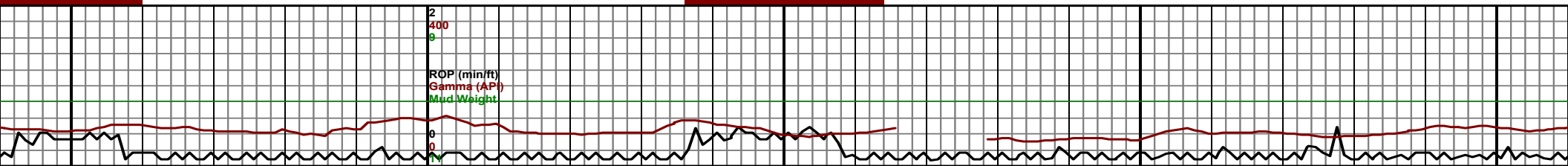
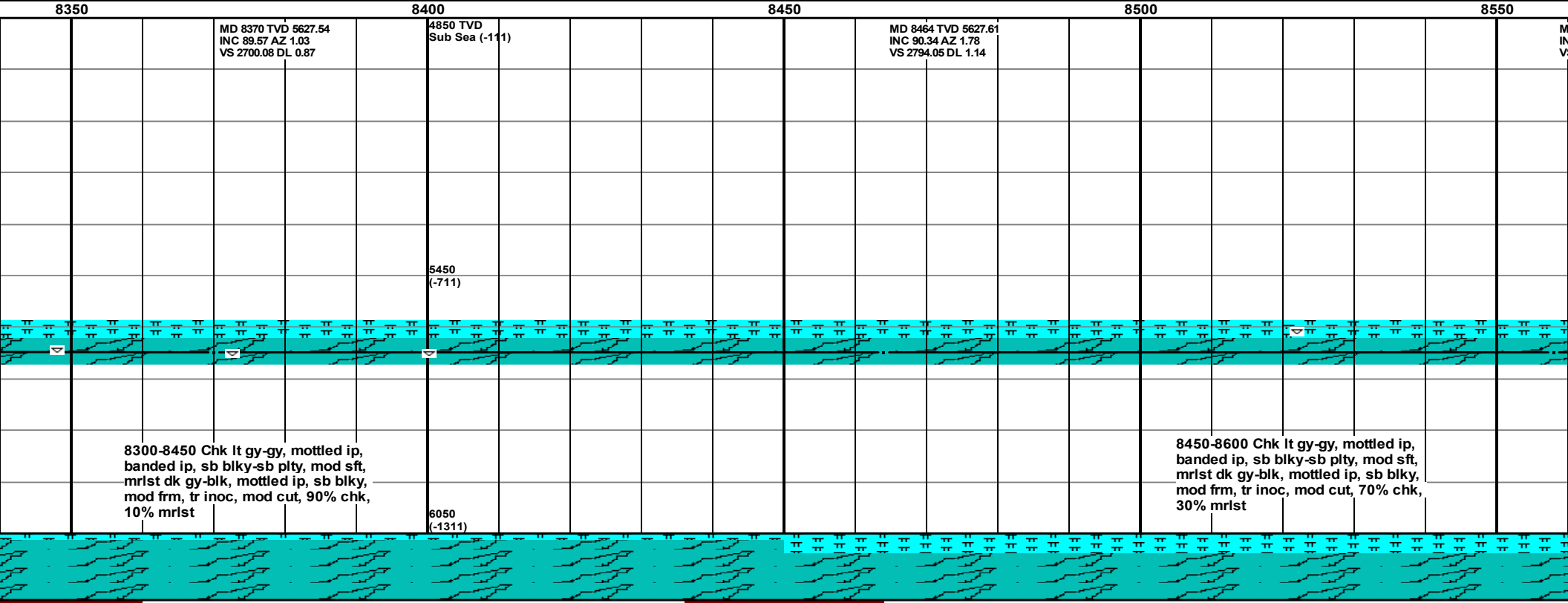
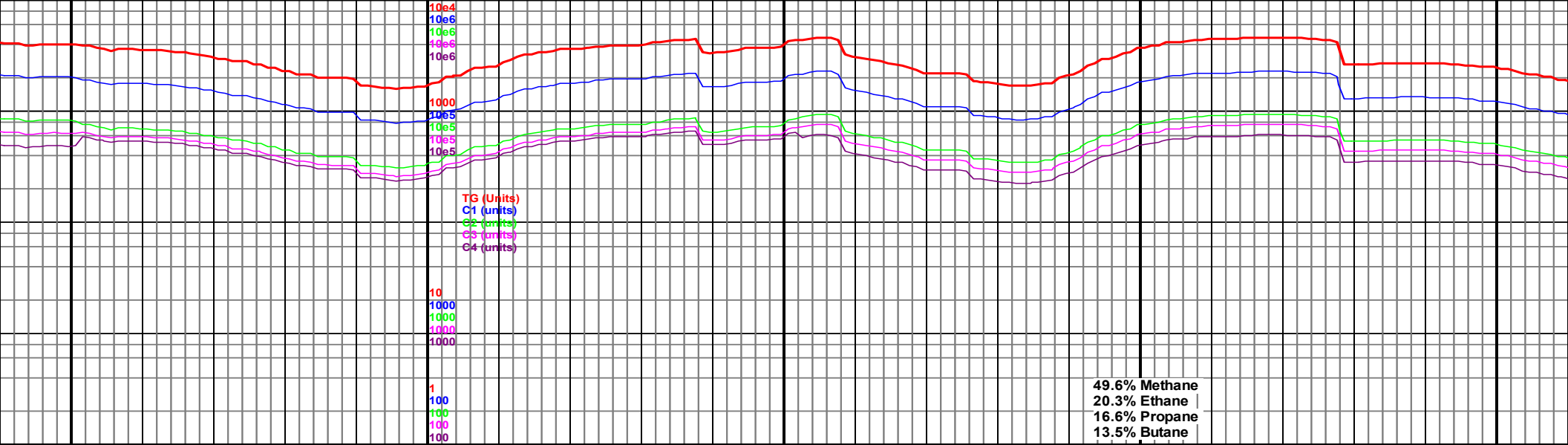


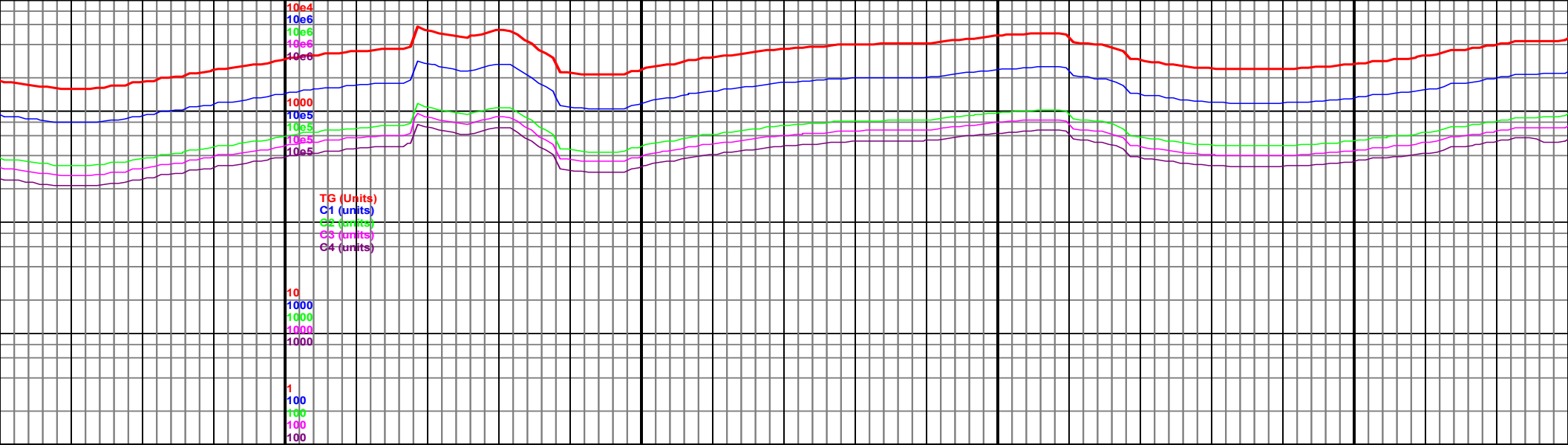
ROP (min/ft)  
Gamma (API)  
Mud Weight











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INC 90.15 AZ 0.87  
S 2888.03 DL 0.99

4850 TVD  
Sub Sea (-111)

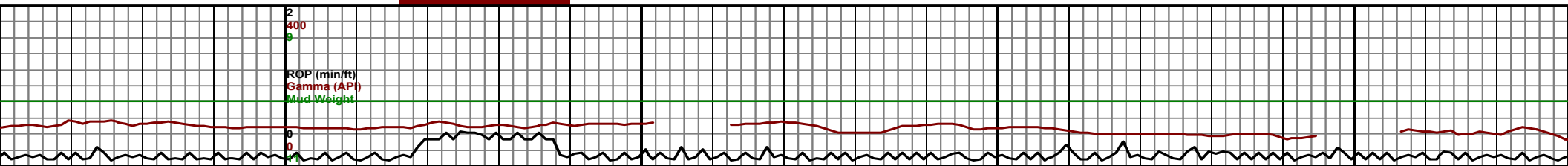
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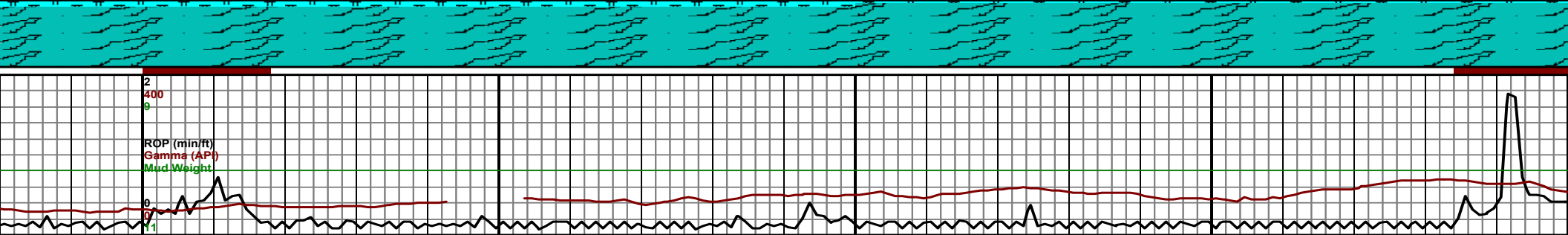
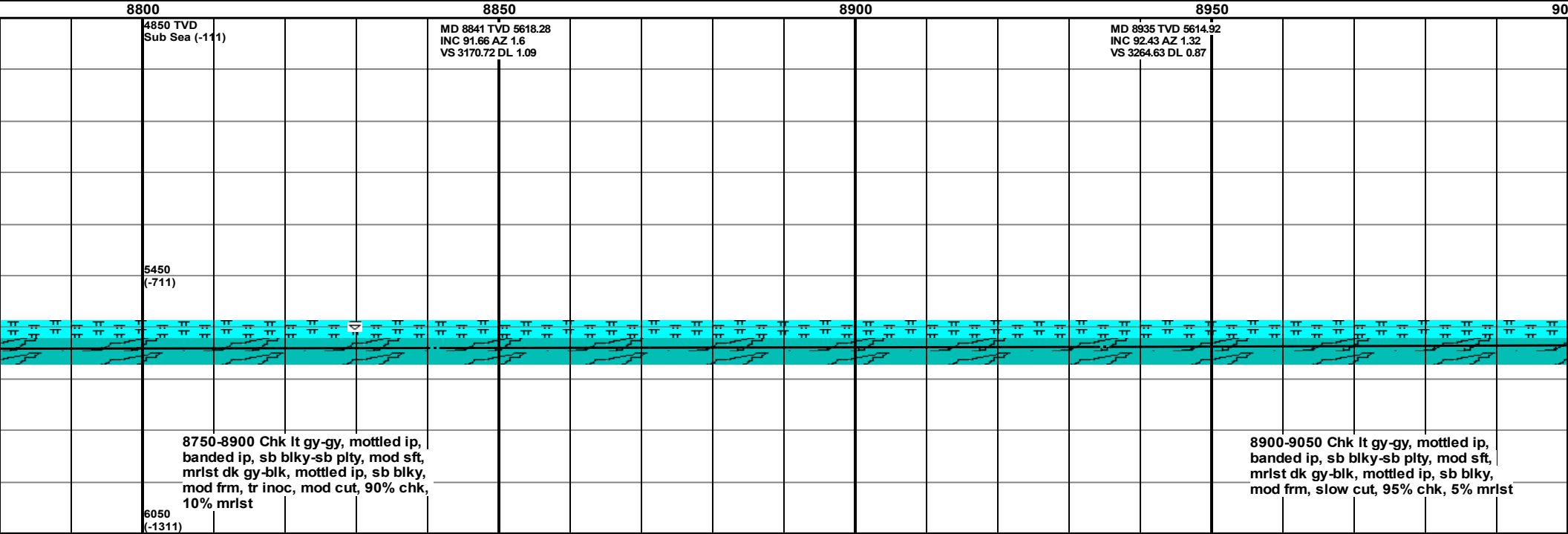
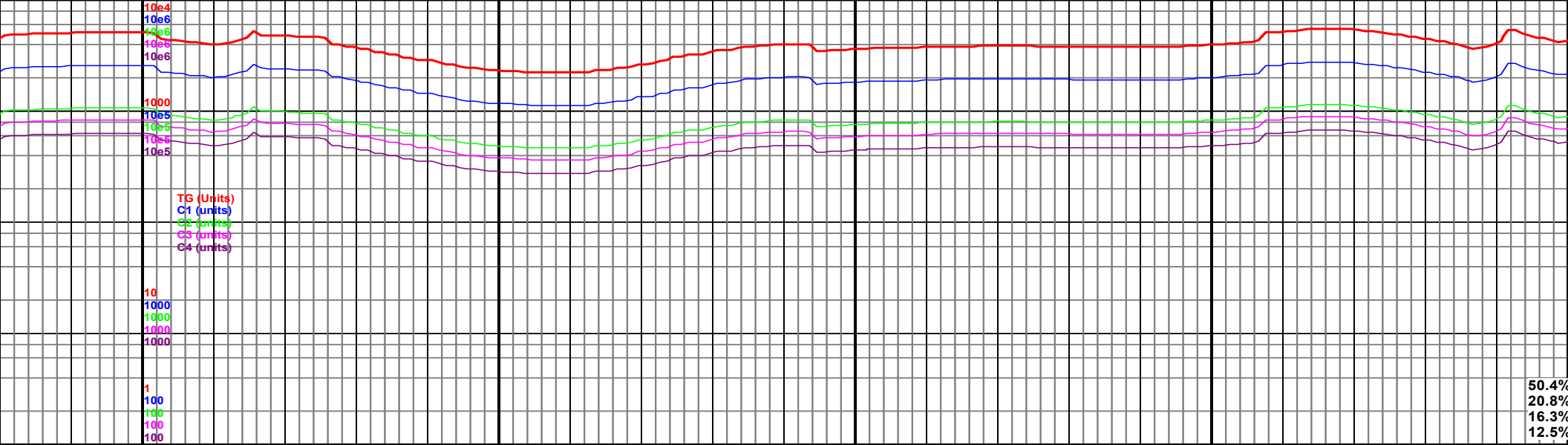
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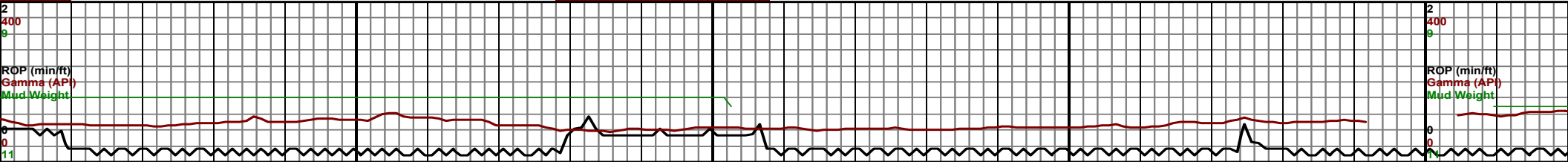
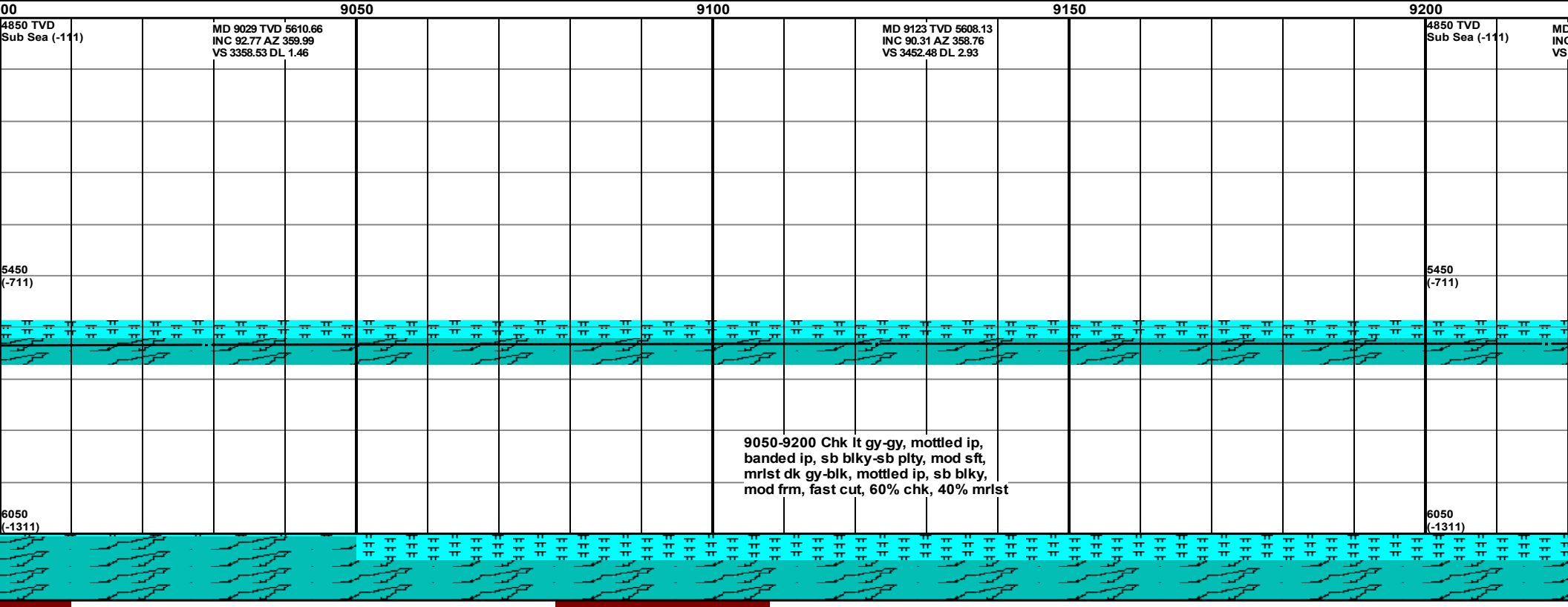
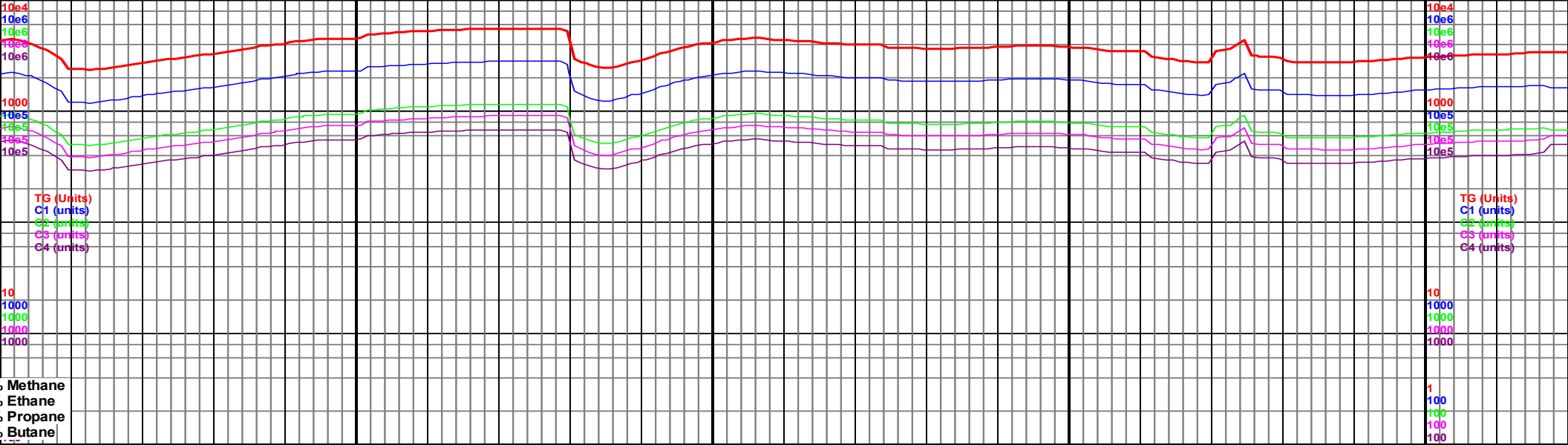
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(-711)

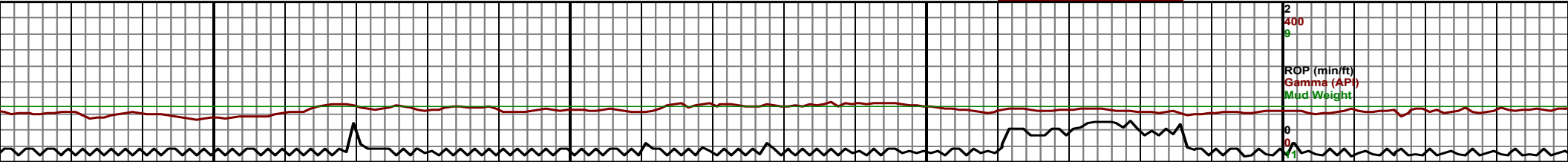
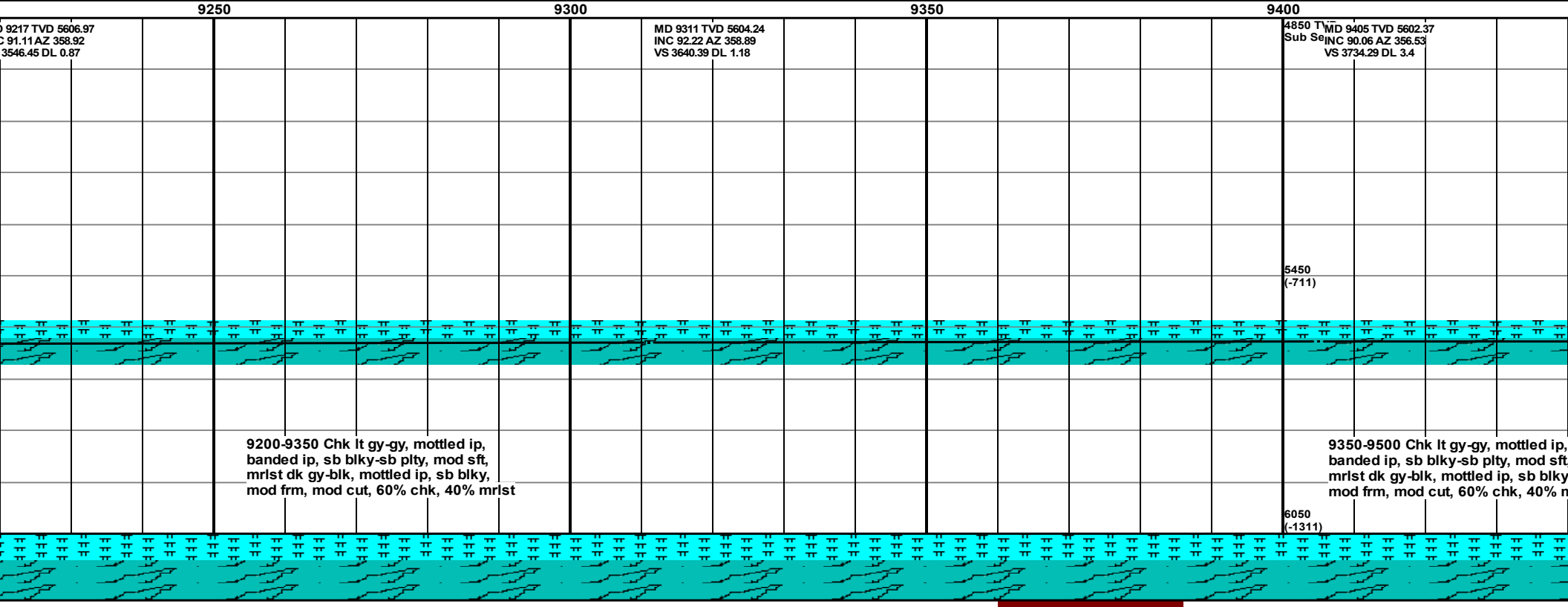
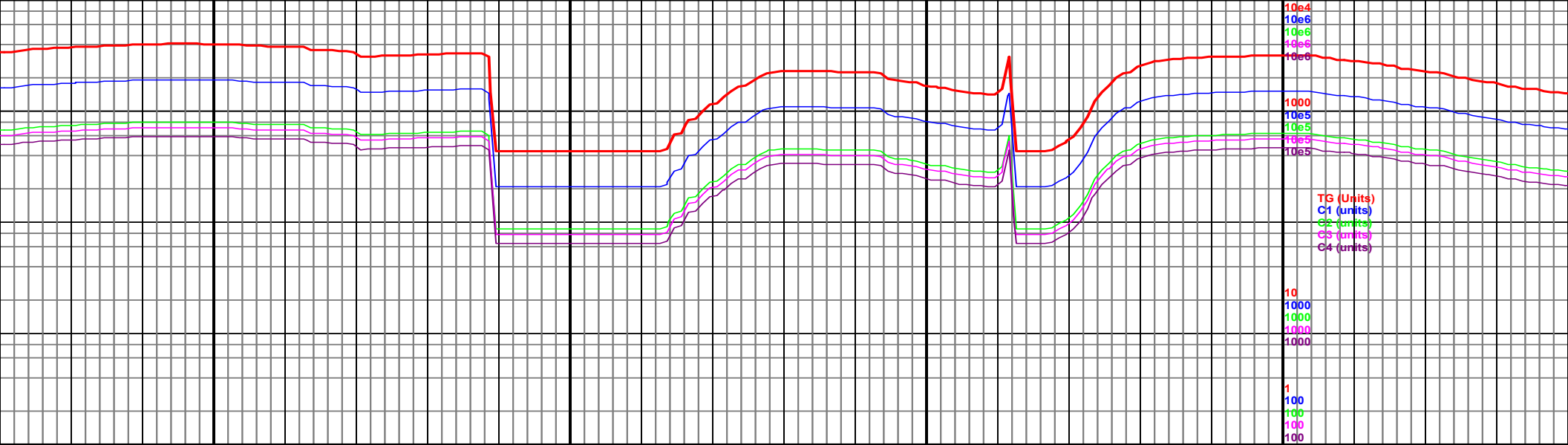
6050  
(-1311)

8600-8750 Chk It gy-gy, mottled ip,  
banded ip, sb blk-y-sb plty, mod sft,  
mrlist dk gy-blk, mottled ip, sb blk-y,  
mod frm, tr inoc, mod cut, 90% chk,  
10% mrlist

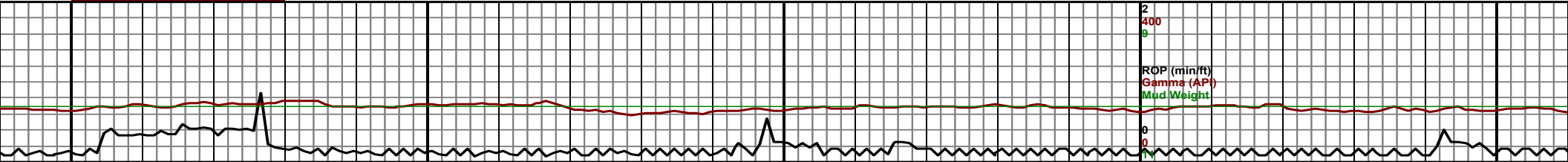
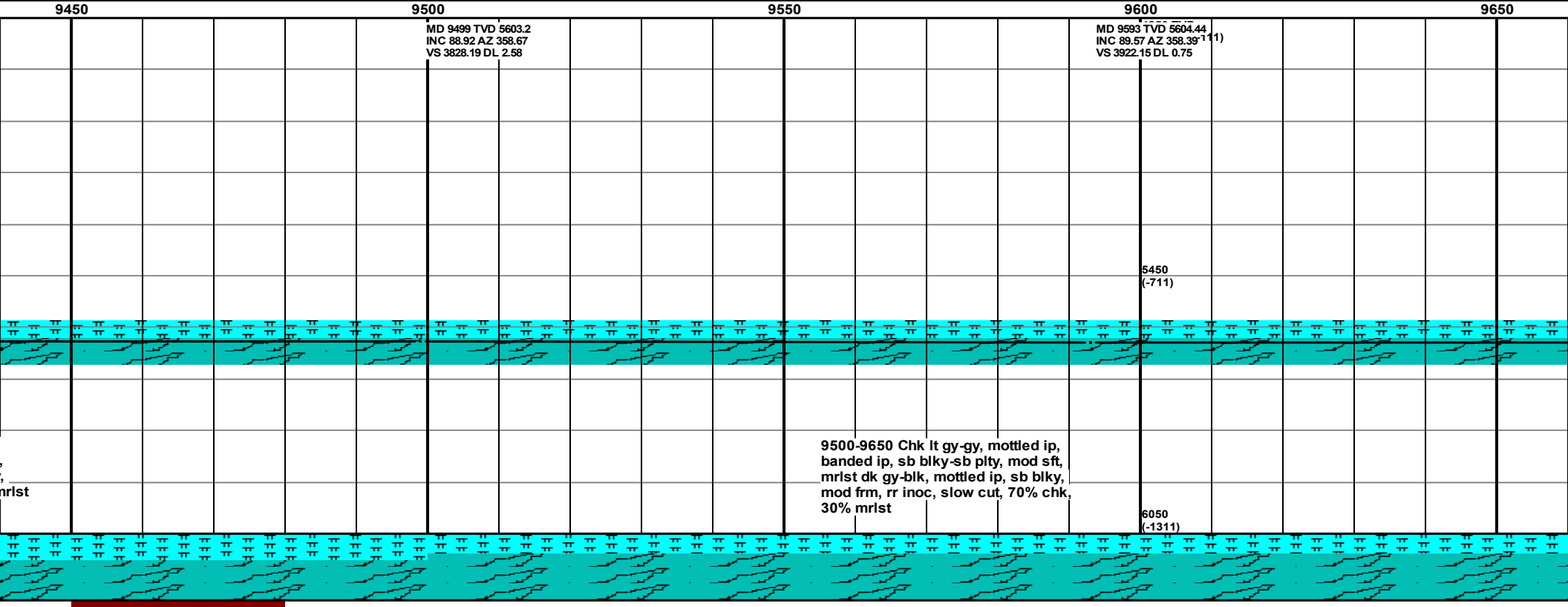
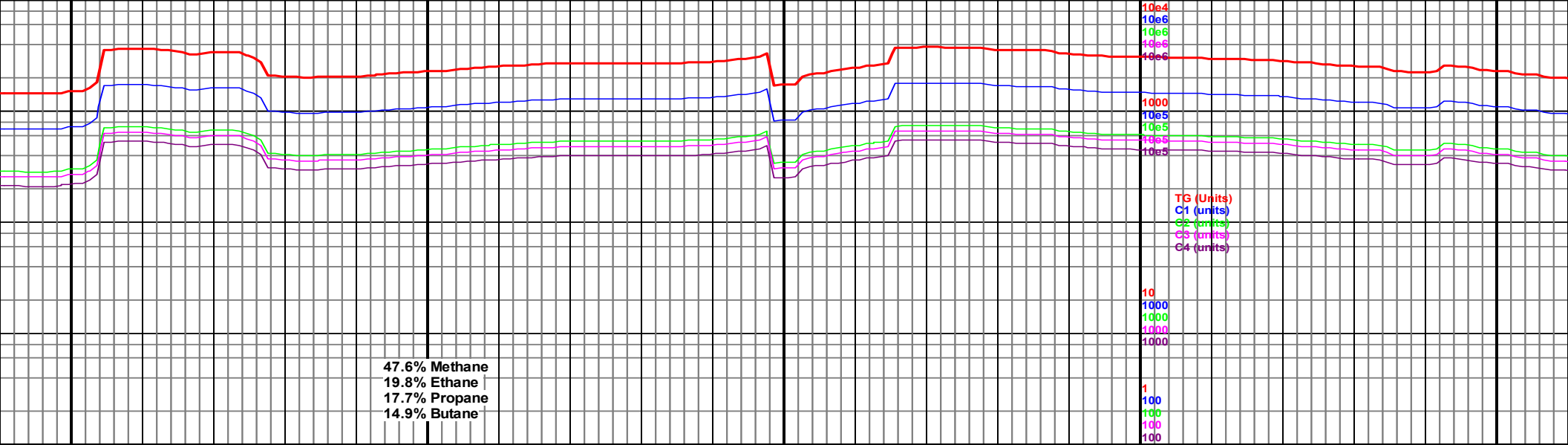


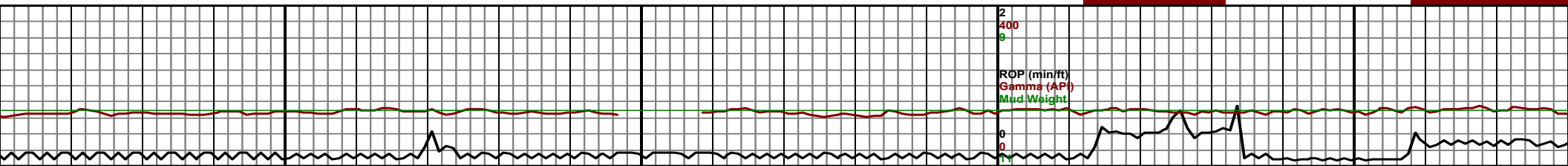
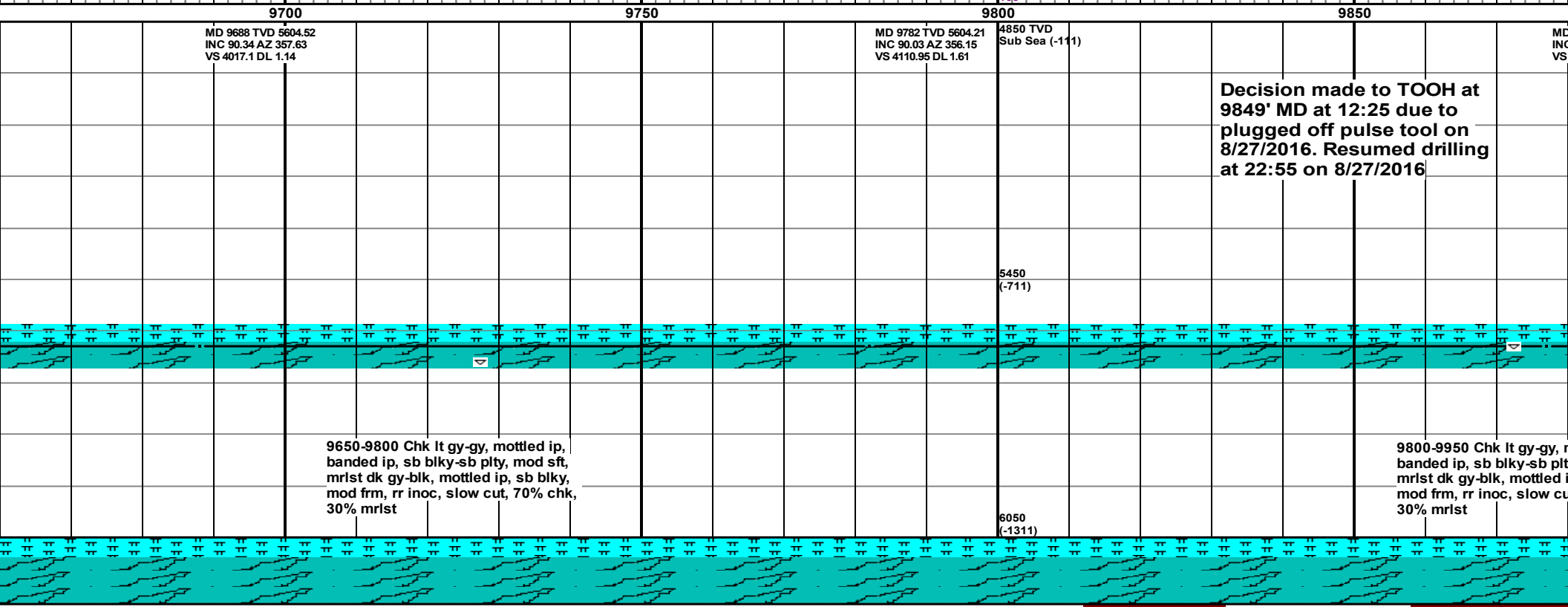


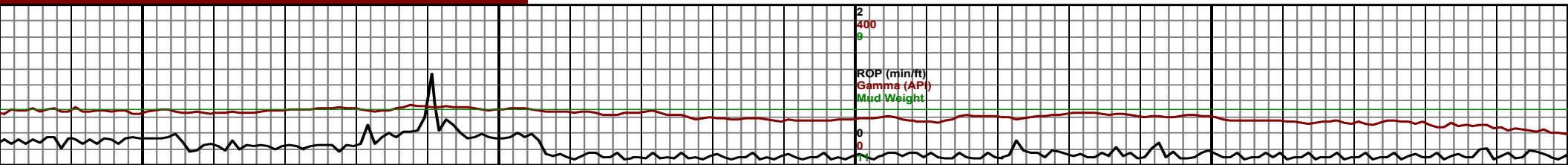
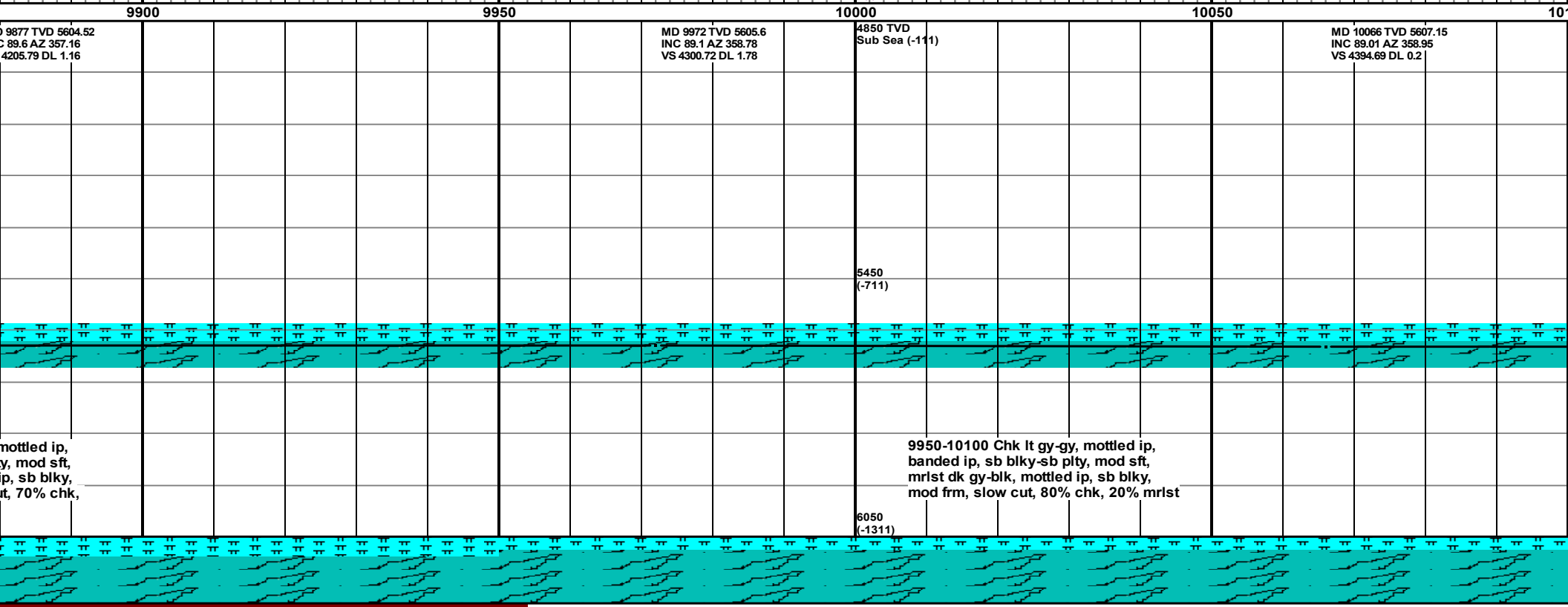
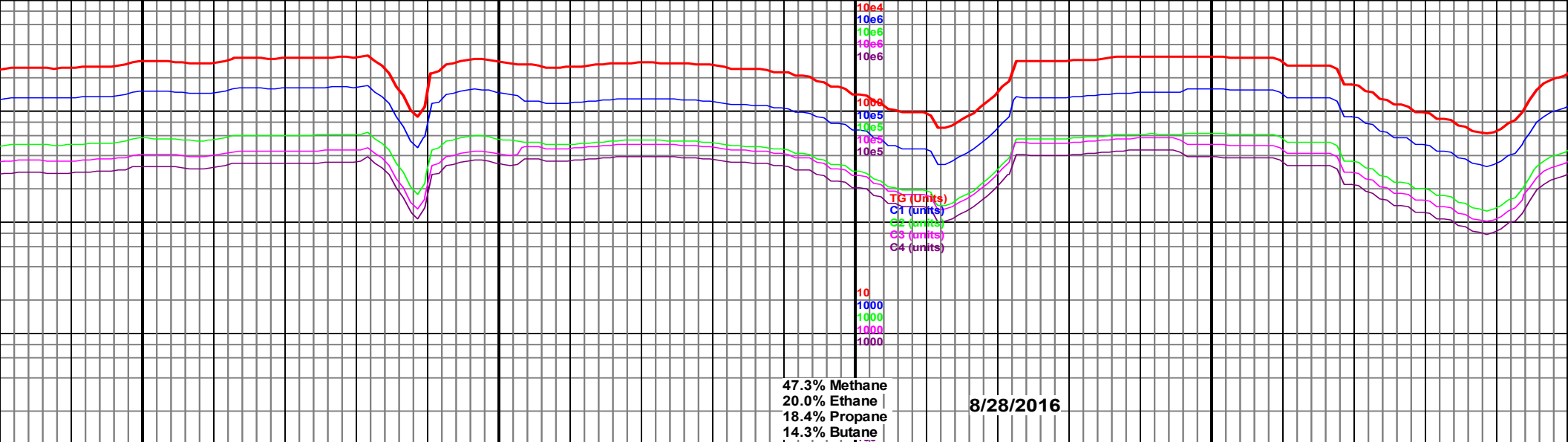


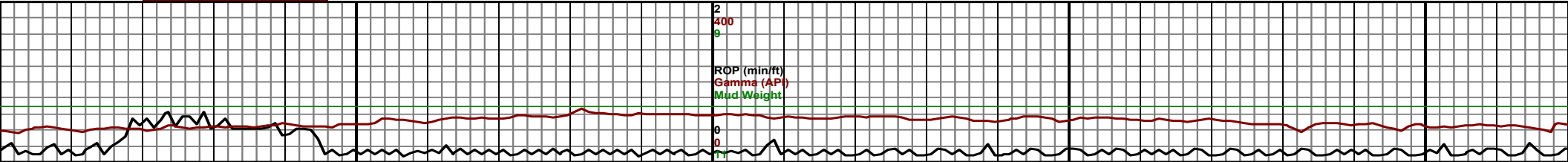
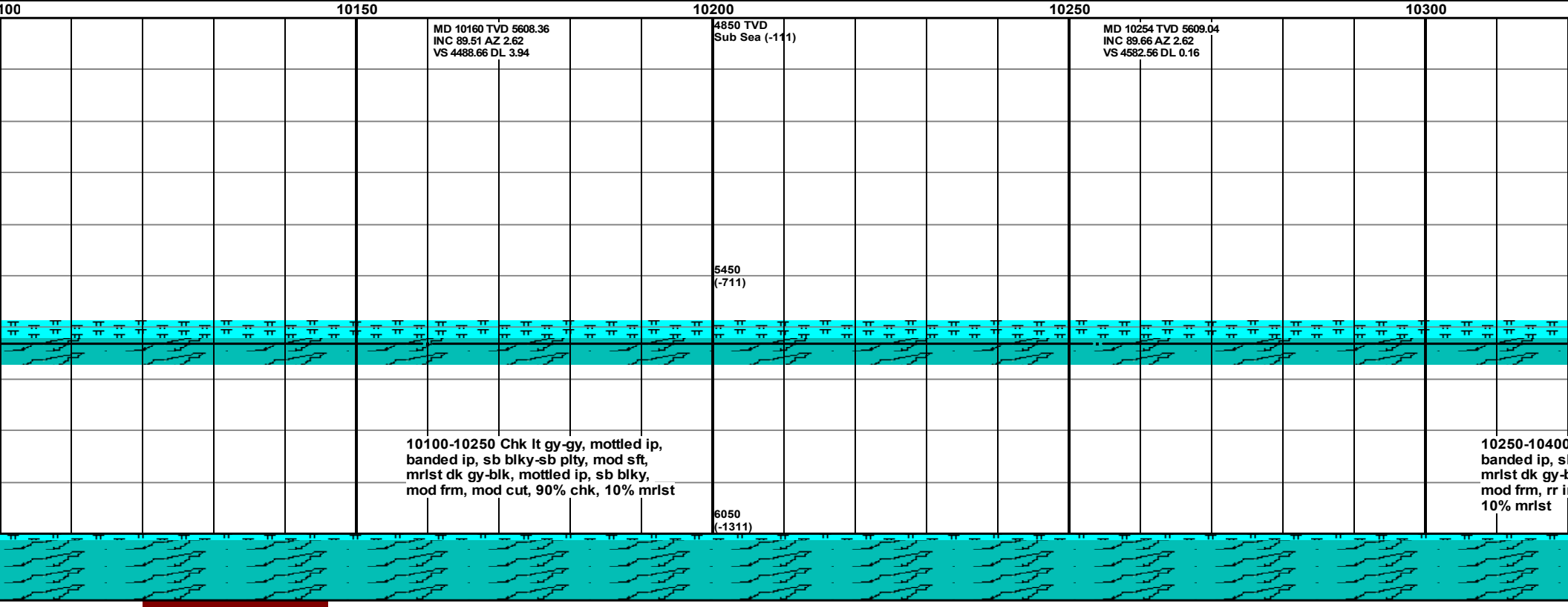
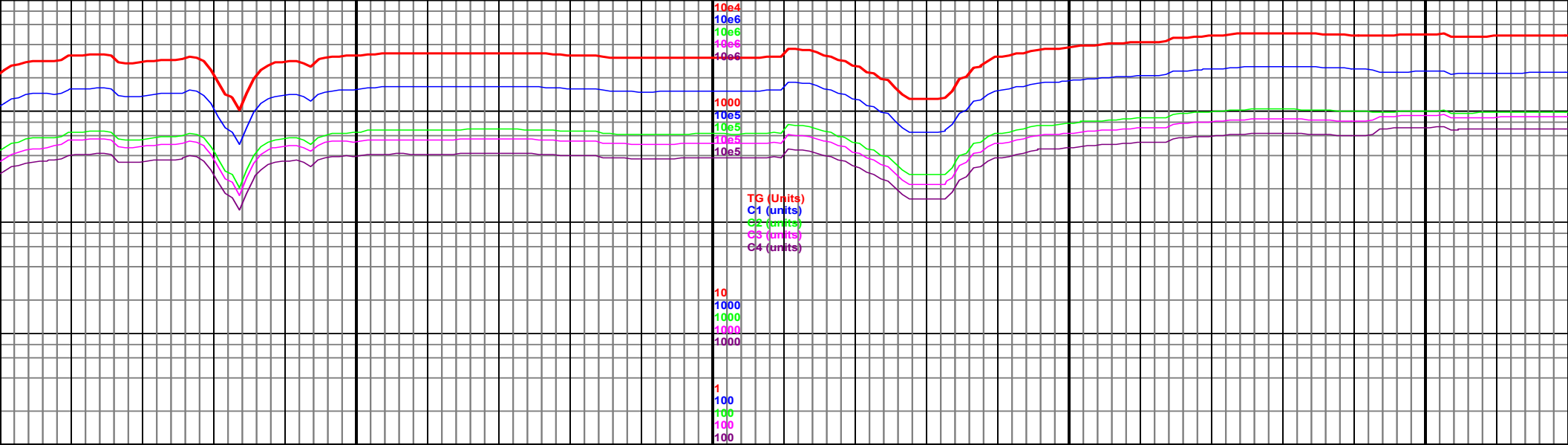


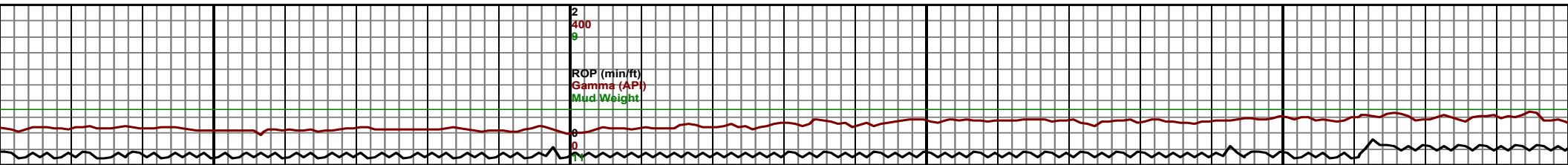
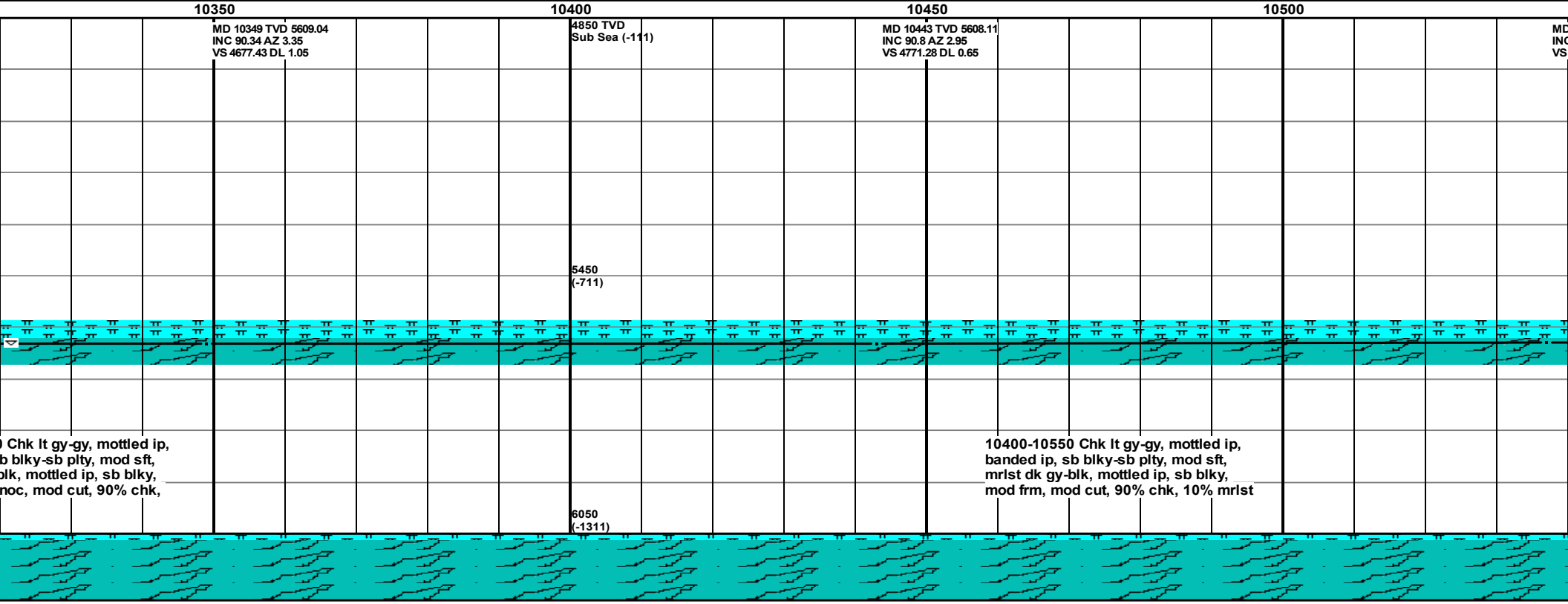
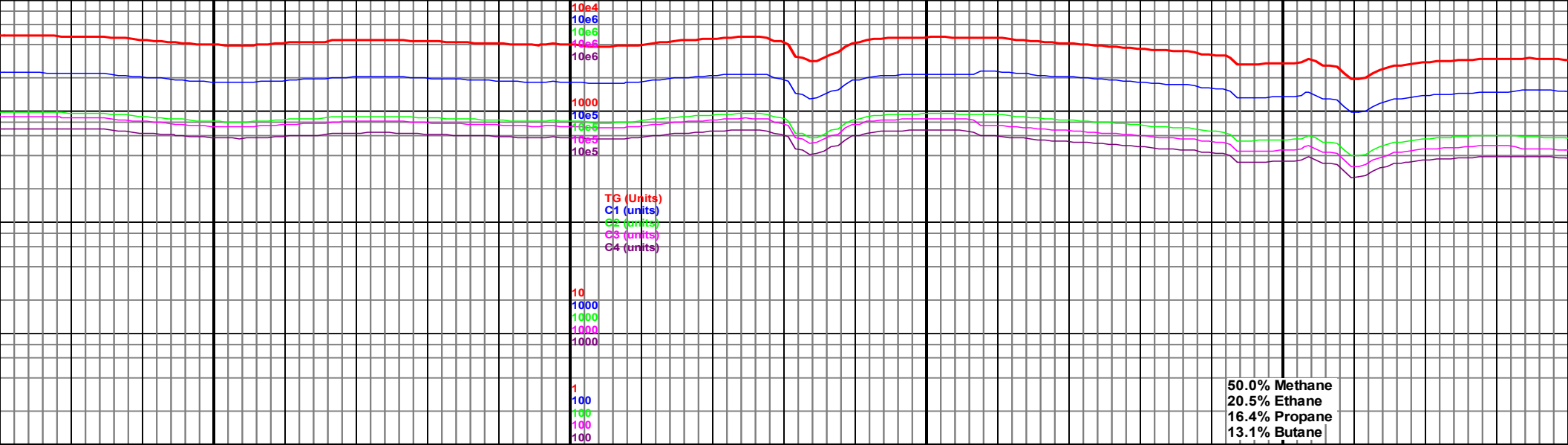


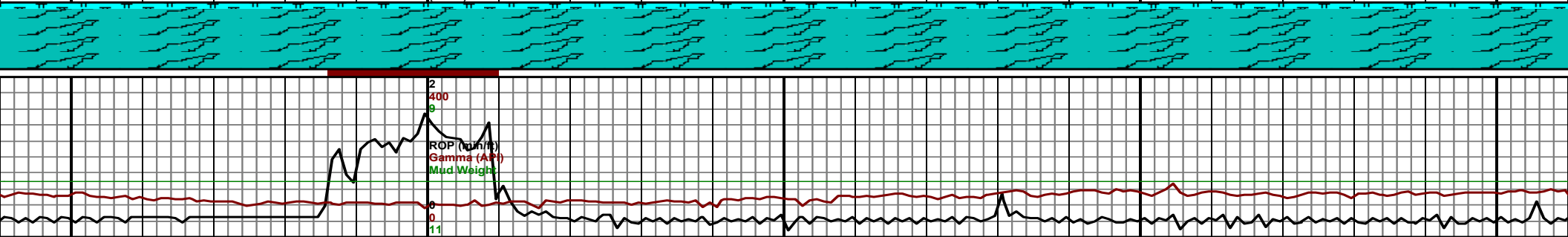
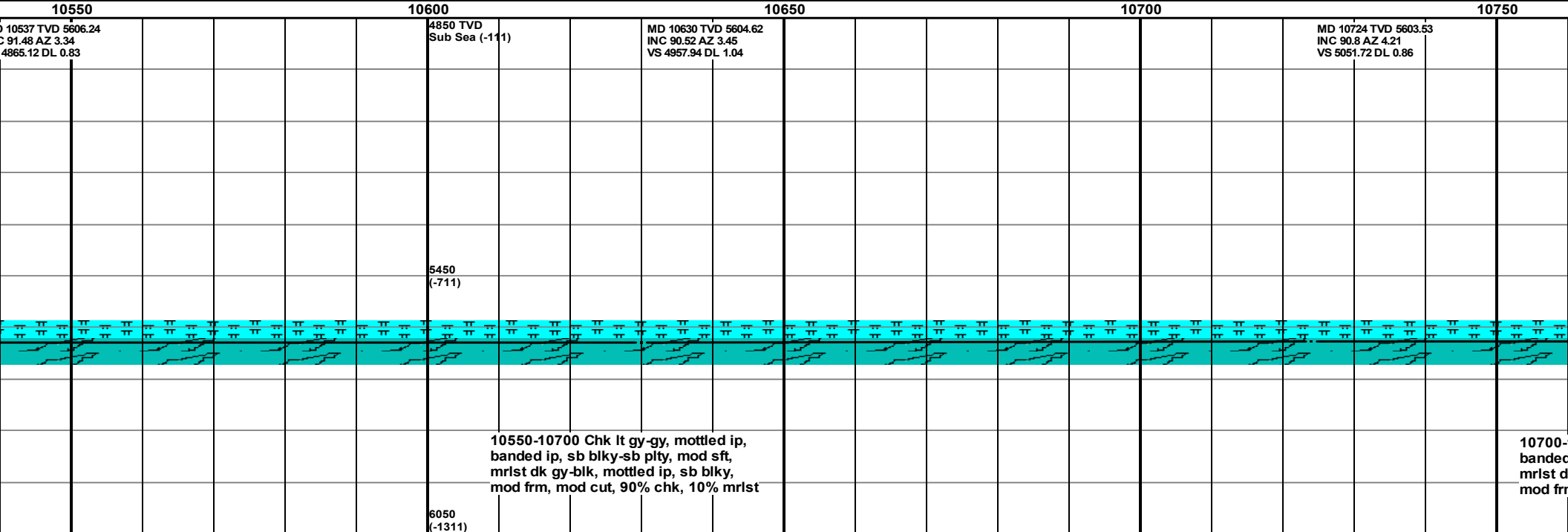
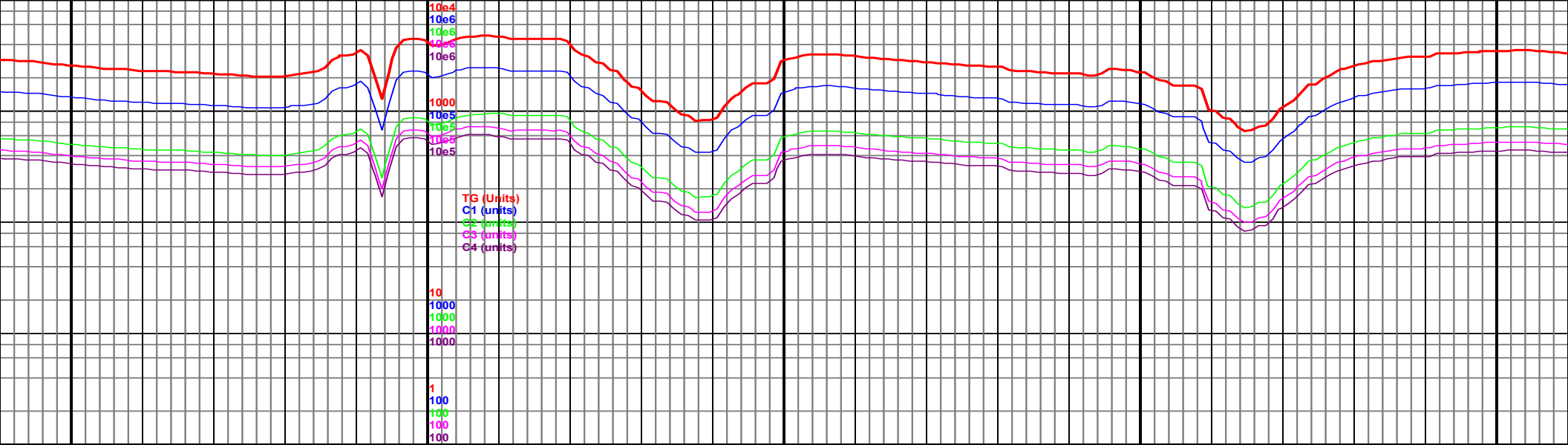


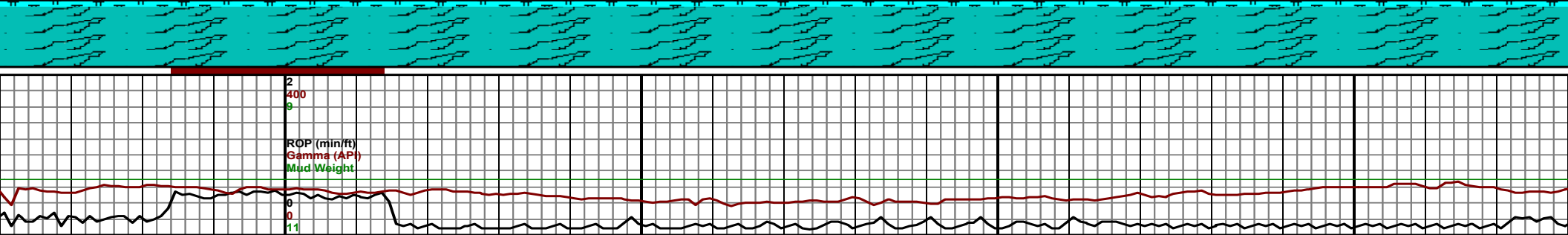
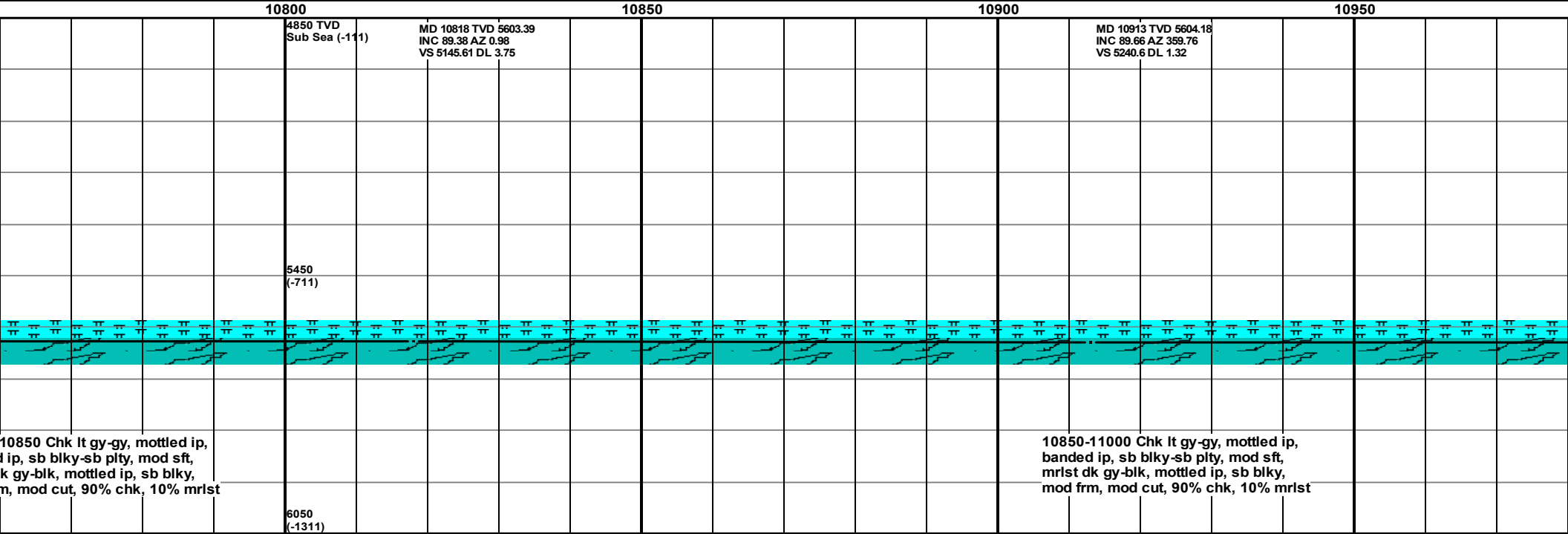
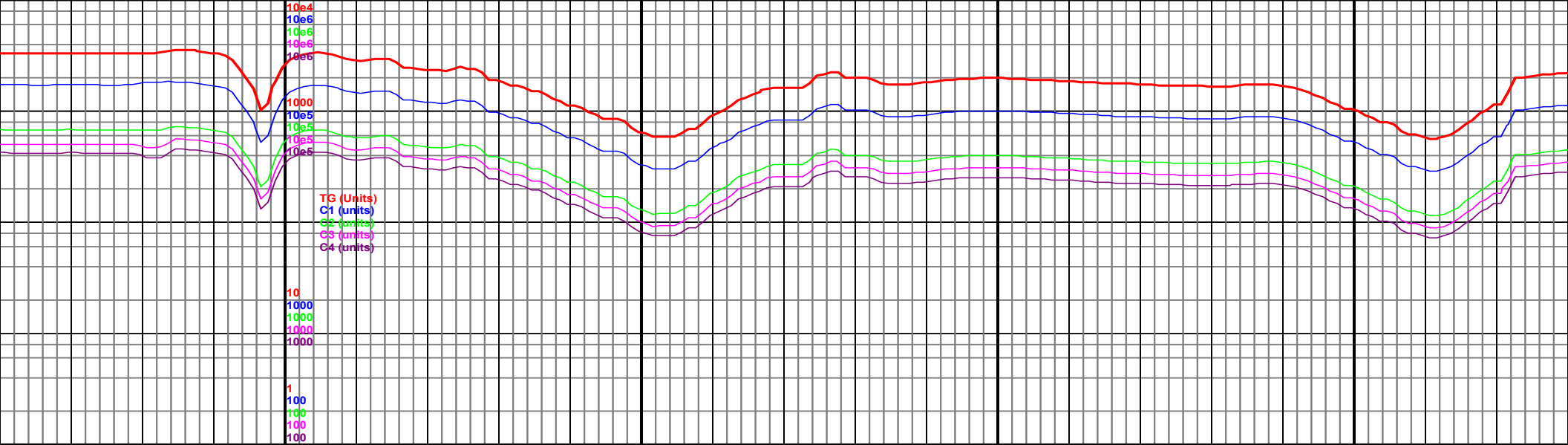


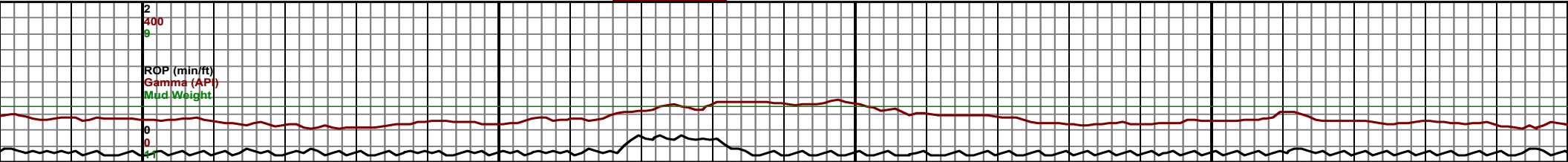
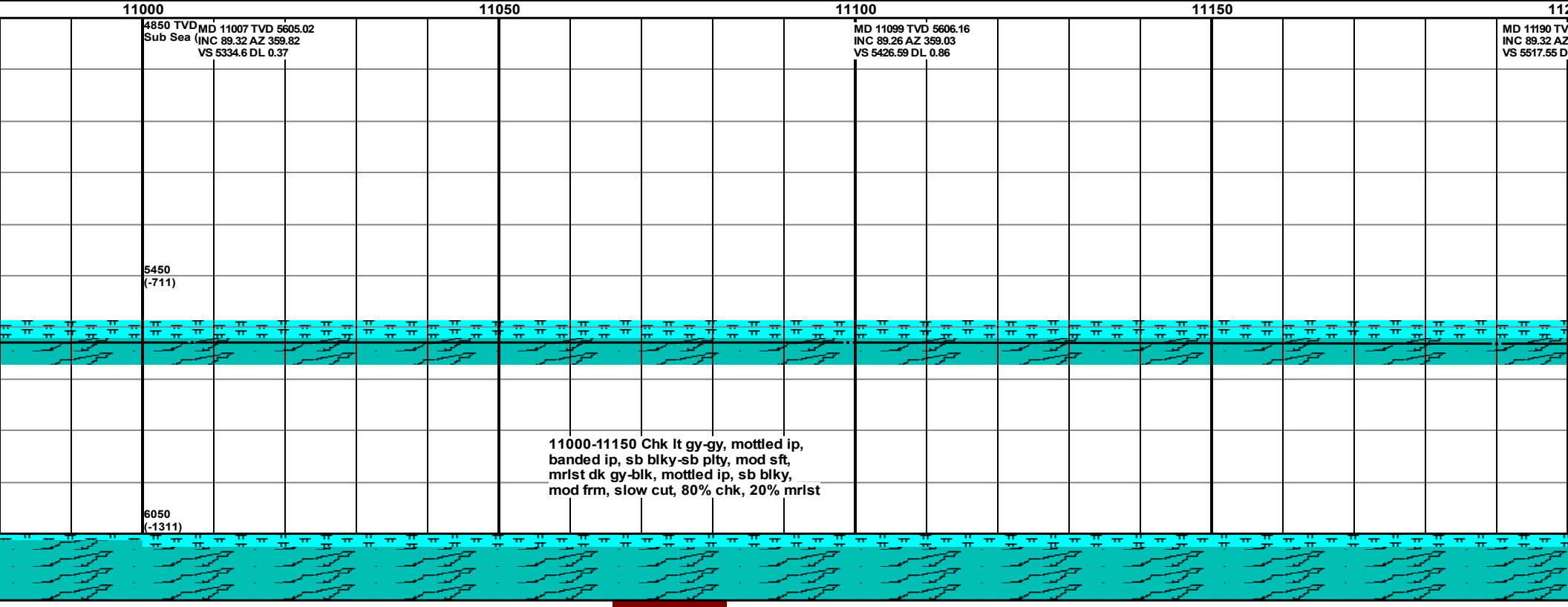
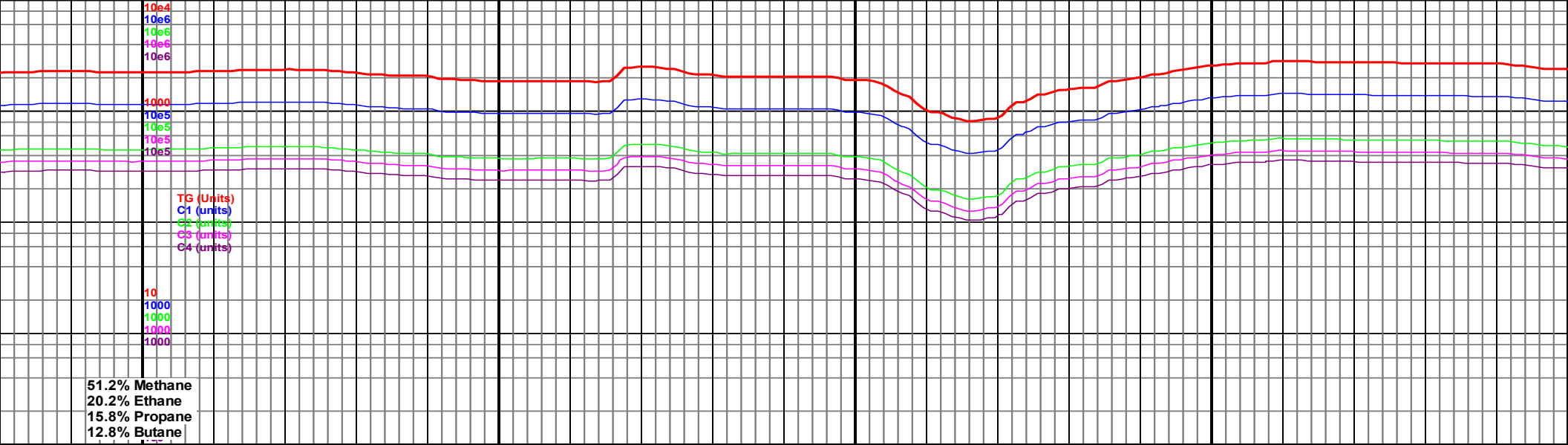




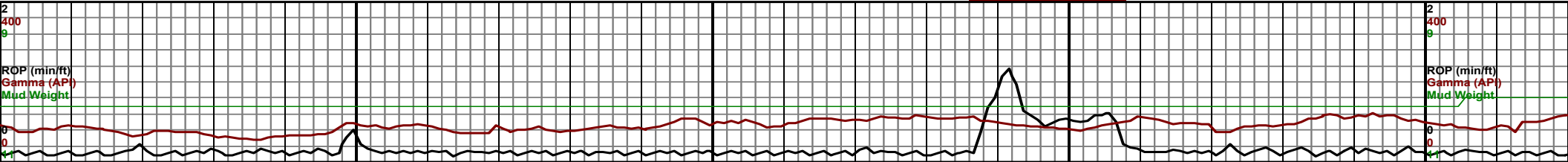
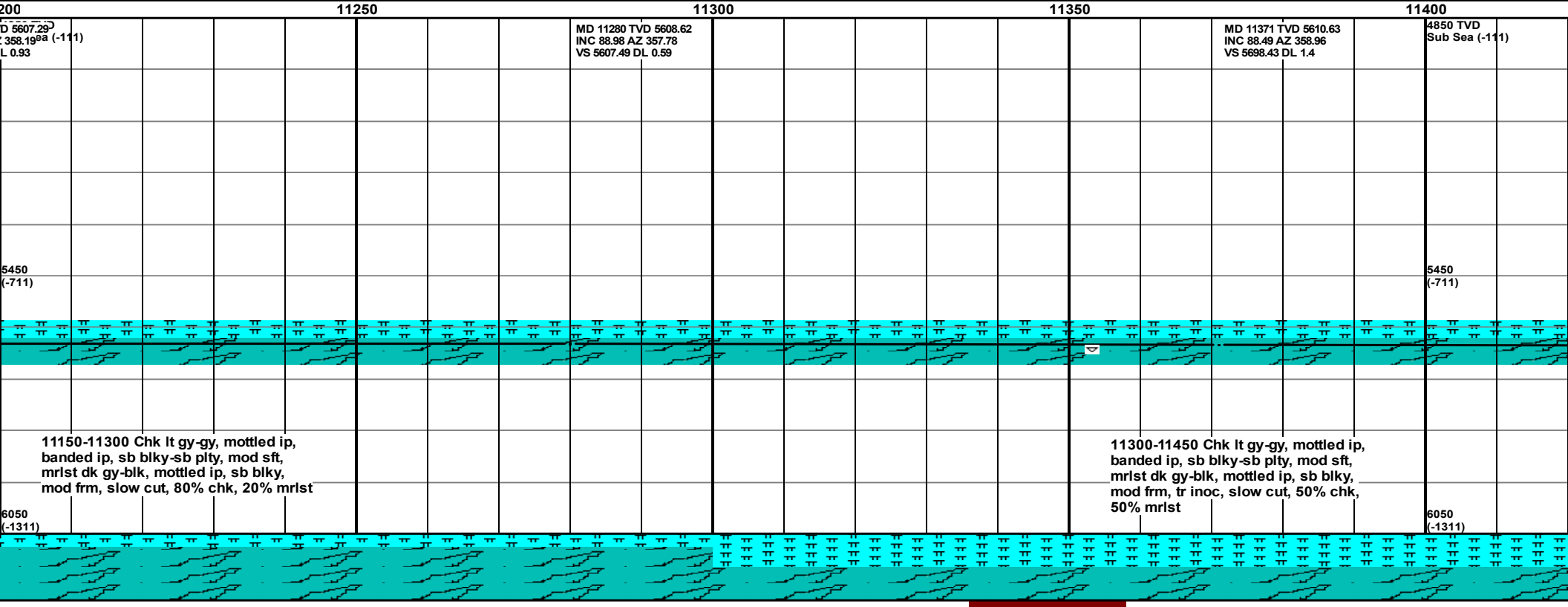
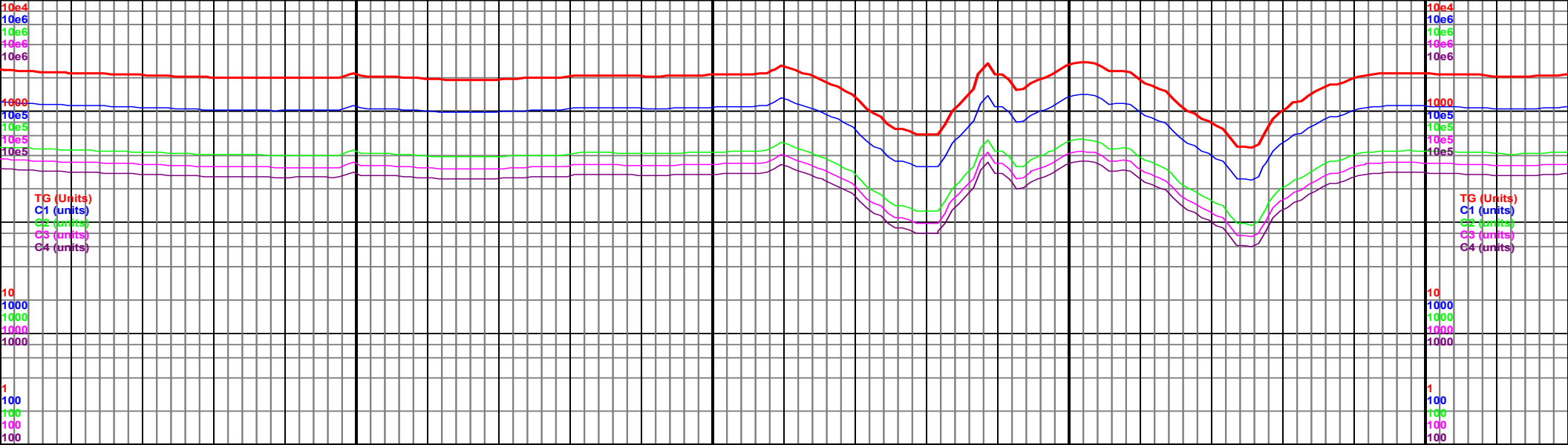


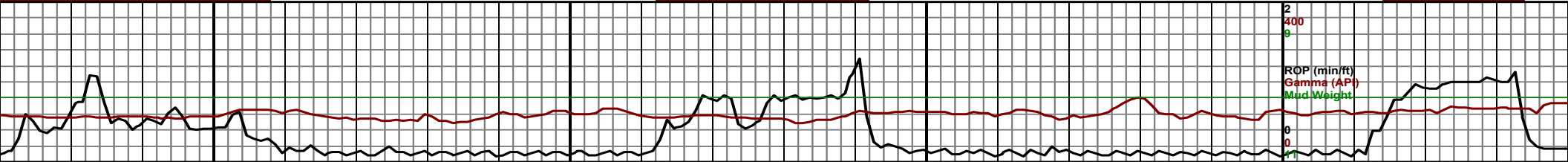
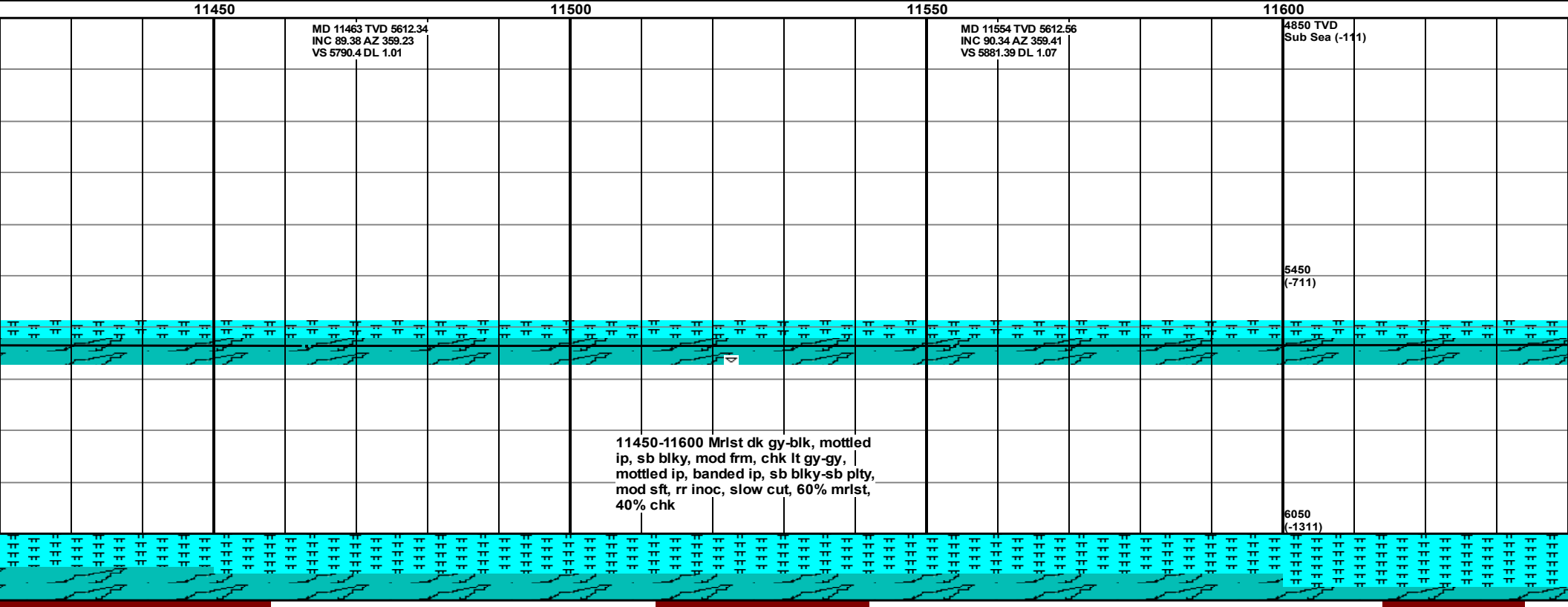
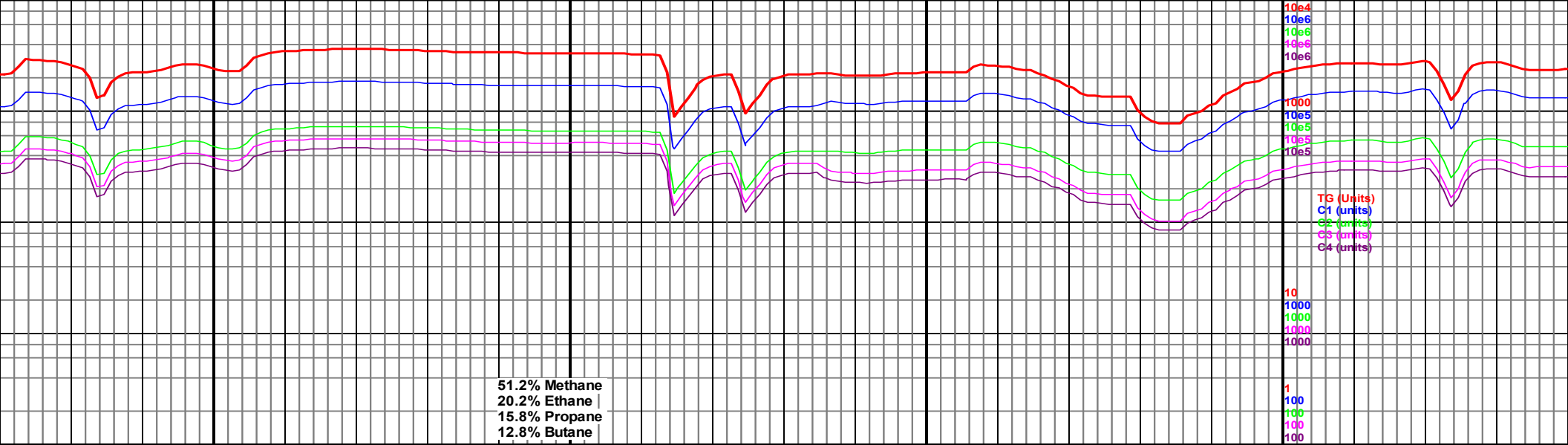


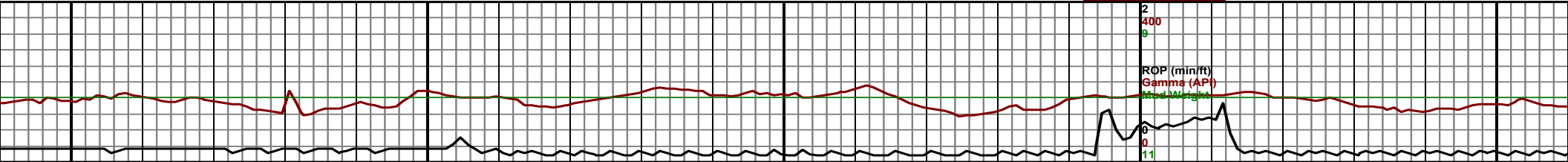
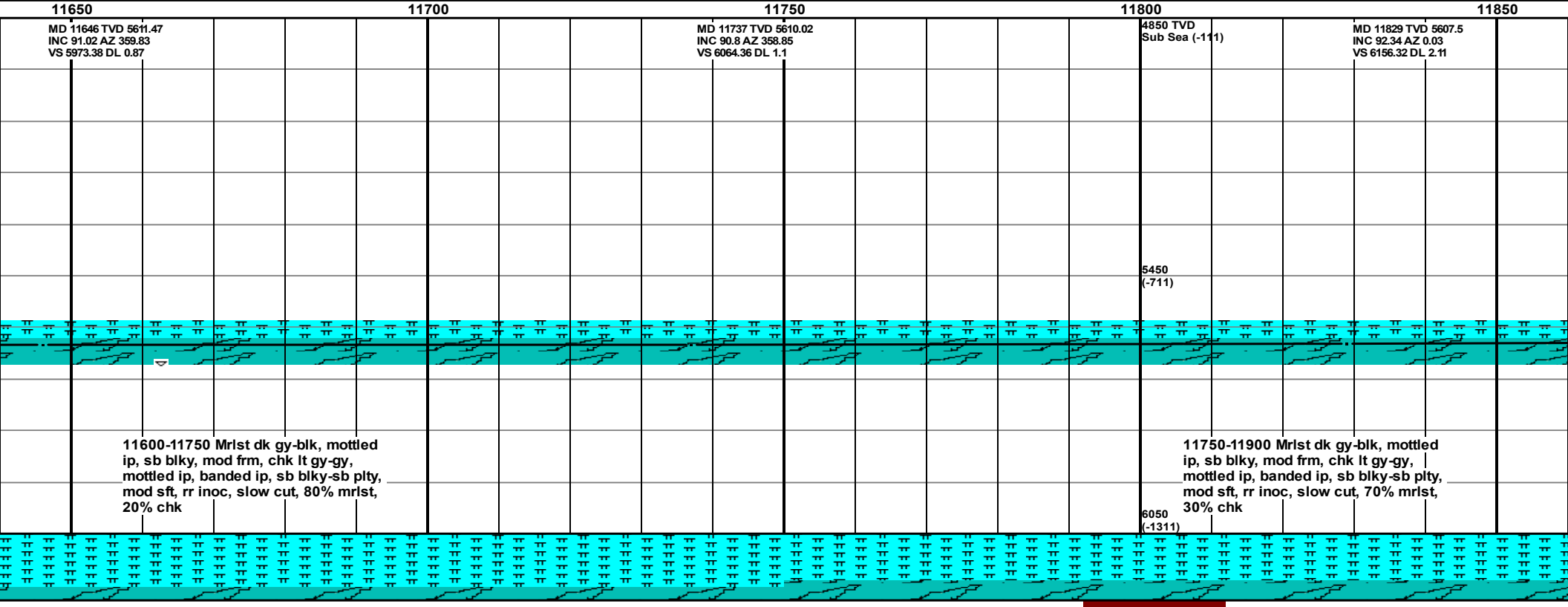
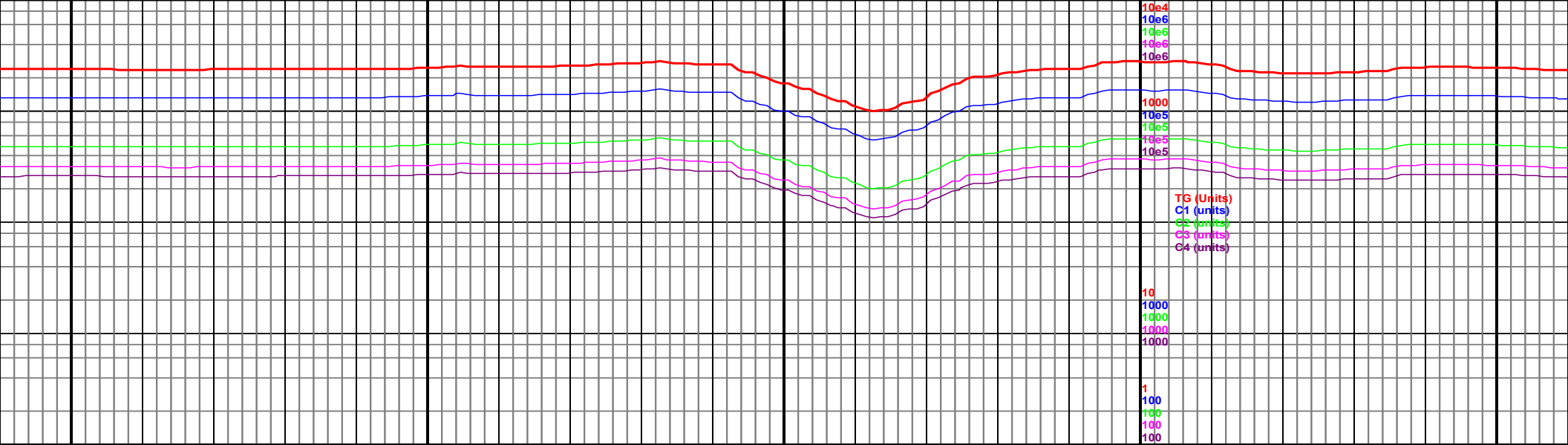


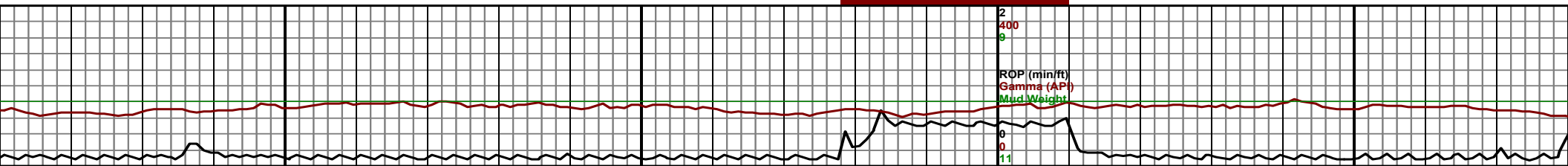
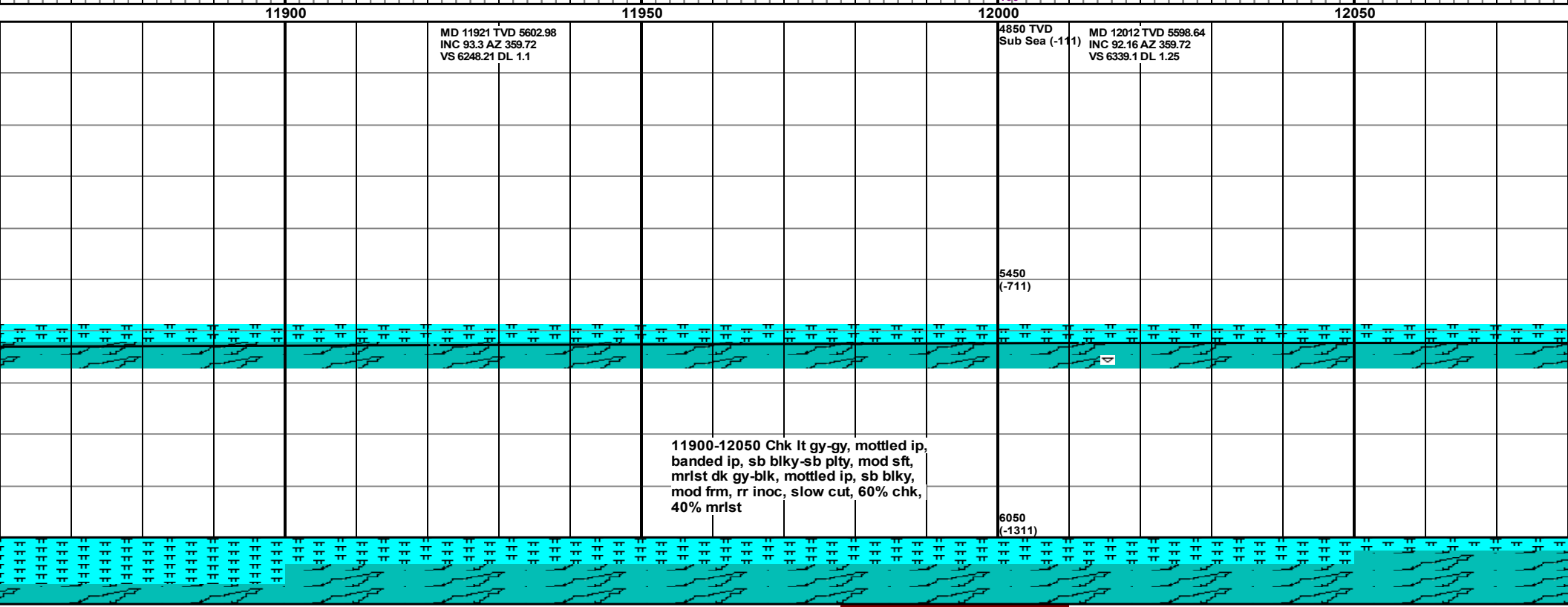


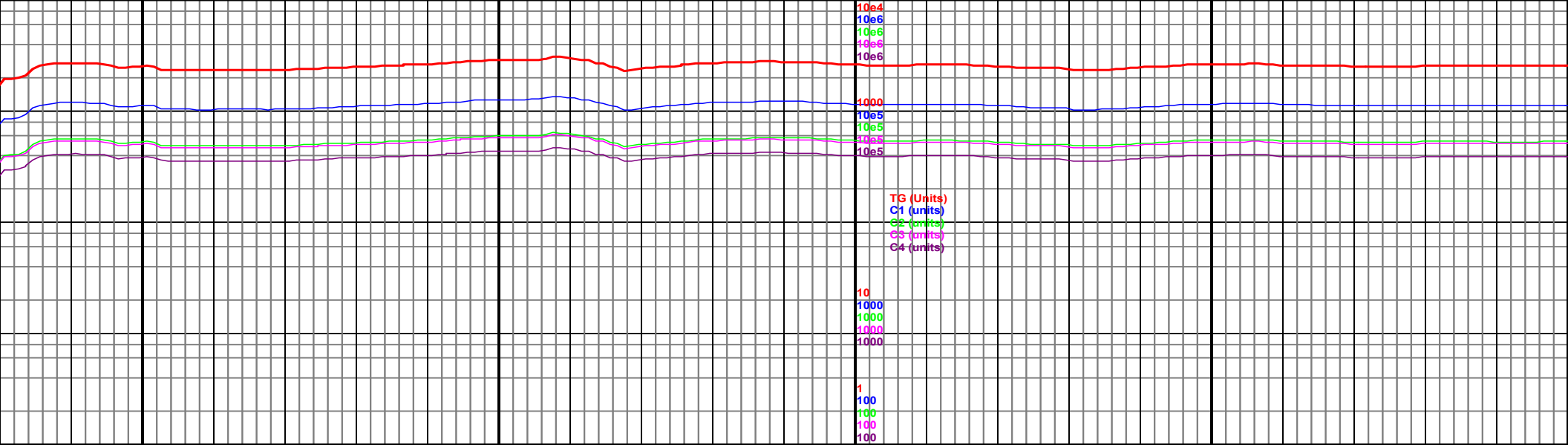












12100

MD 12103 TVD 5597.34  
INC 89.48 AZ 359.7  
VS 6430.08 DL 2.95

12150

12200

MD 12194 TVD 5598.48  
INC 89.08 AZ 359.24 <sup>11</sup>  
VS 6521.07 DL 0.67

12250

12300

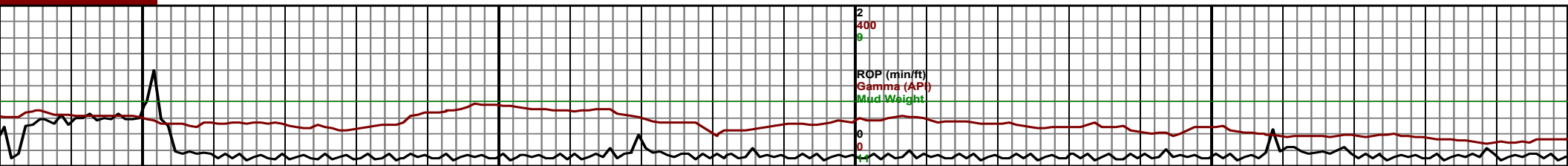
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VS 6613.04 DL 0.54

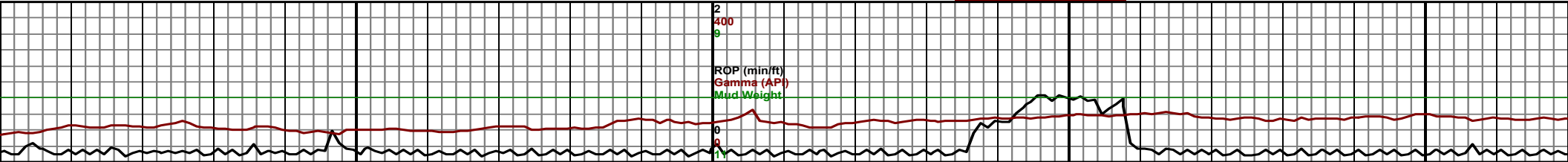
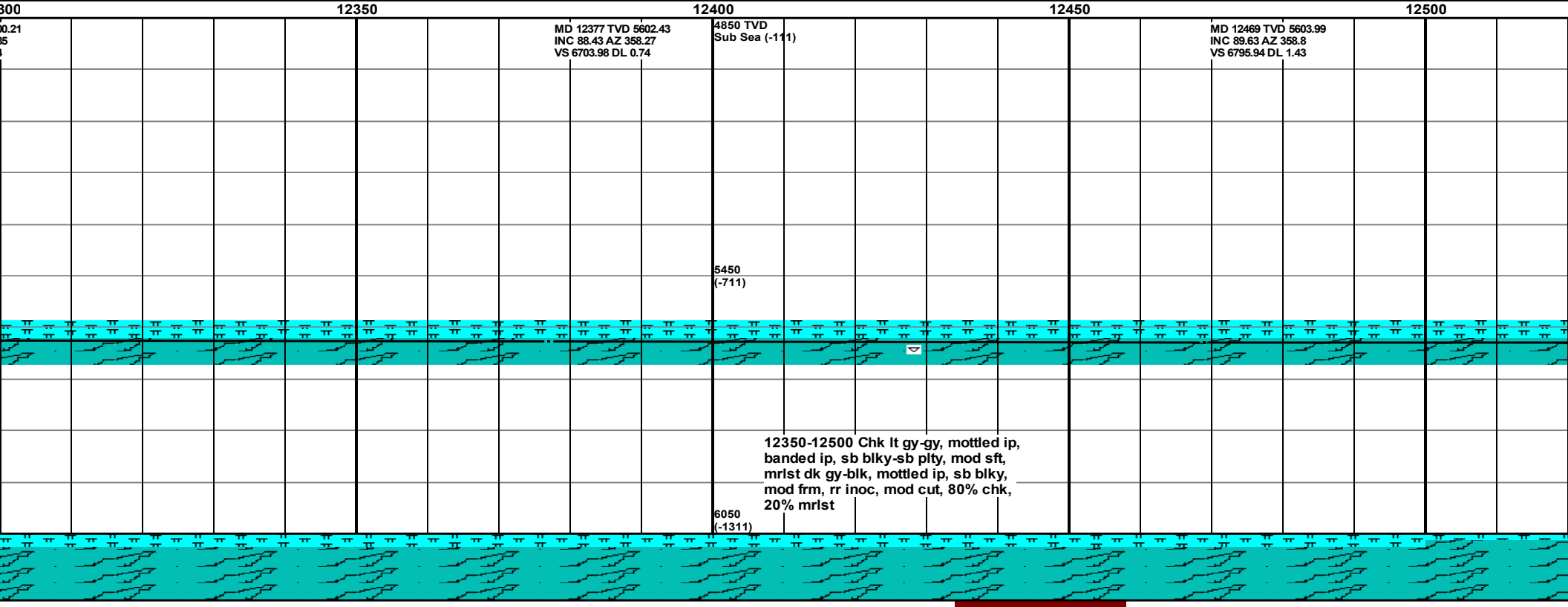
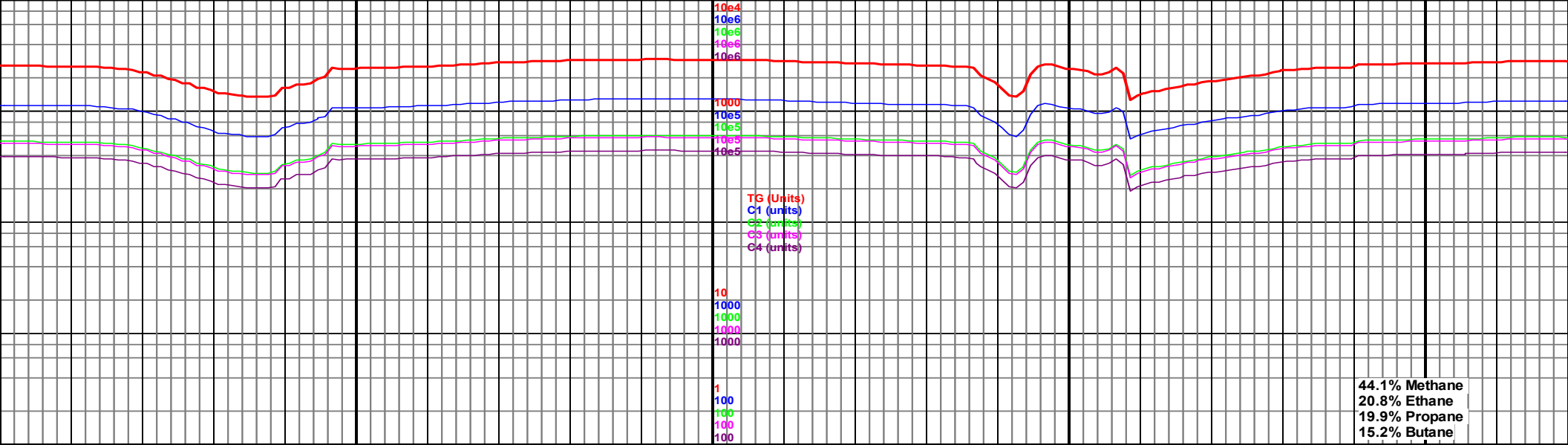
12050-12200 Chk It gy-gy, mottled ip,  
banded ip, sb blk-y-sb plty, mod sft,  
mrlst dk gy-blk, mottled ip, sb blk-y,  
mod frm, rr inoc, slow cut, 80% chk,  
20% mrlst

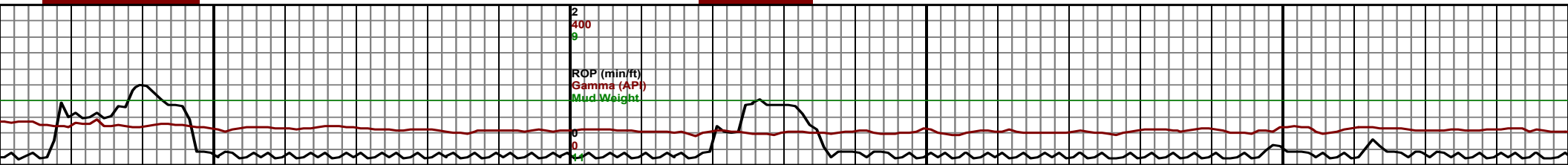
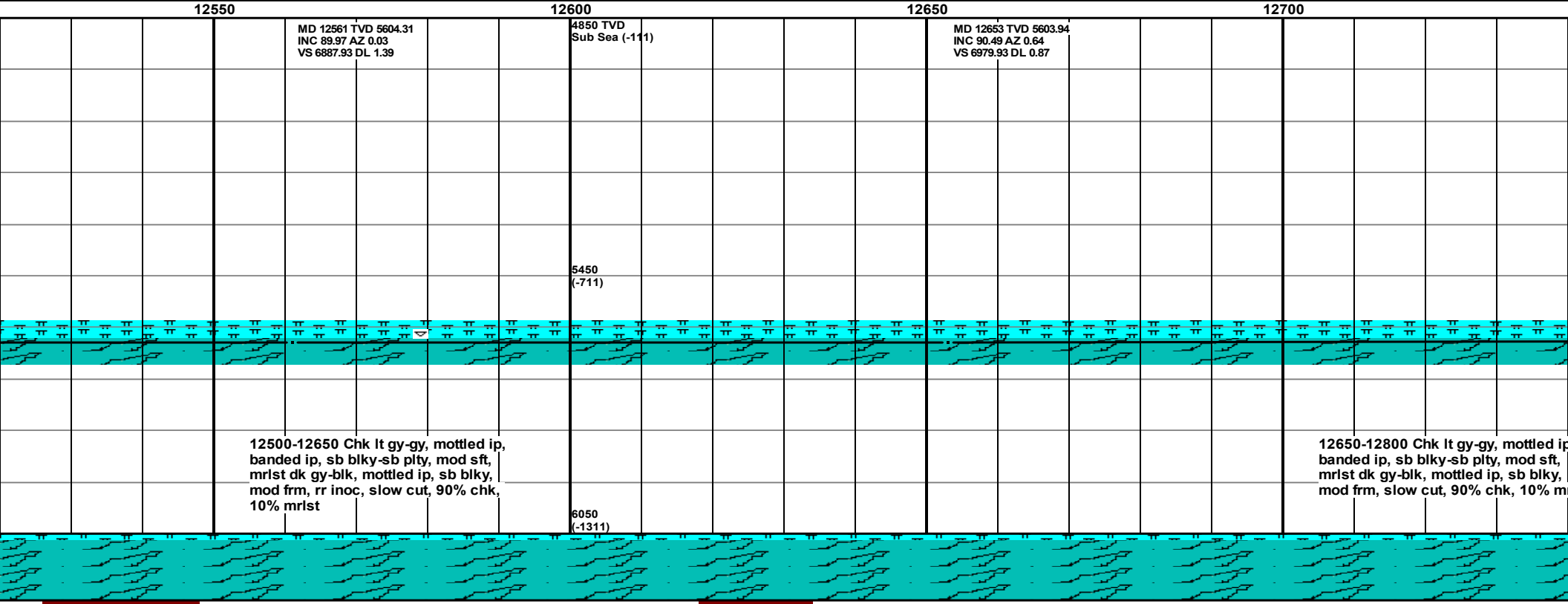
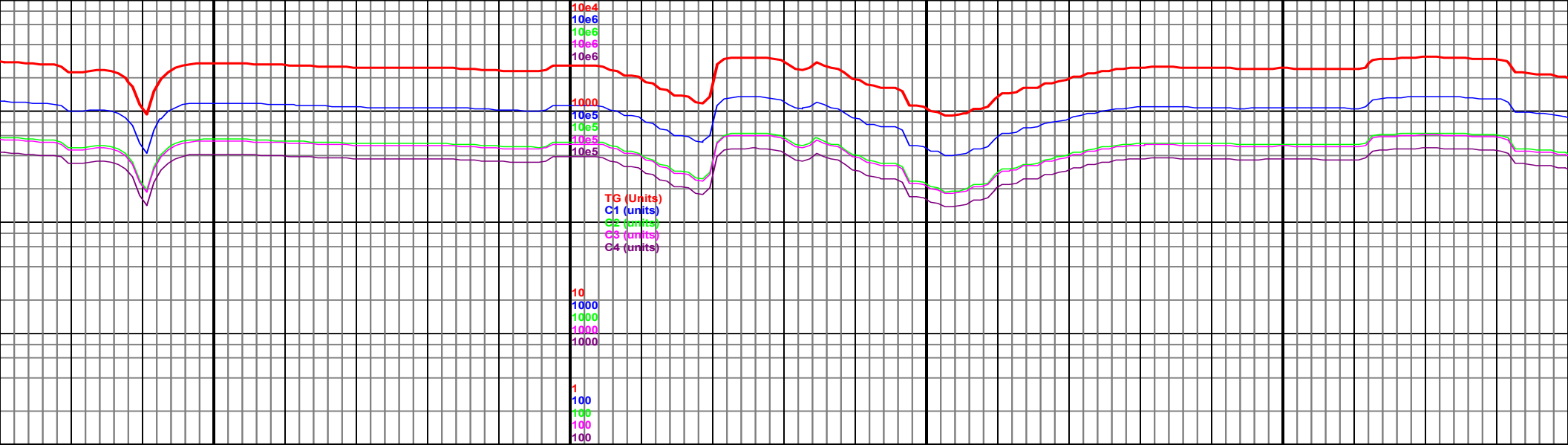
12200-12350 Chk It gy-gy, mottled ip,  
banded ip, sb blk-y-sb plty, mod sft,  
mrlst dk gy-blk, mottled ip, sb blk-y,  
mod frm, rr inoc, mod cut, 80% chk,  
20% mrlst

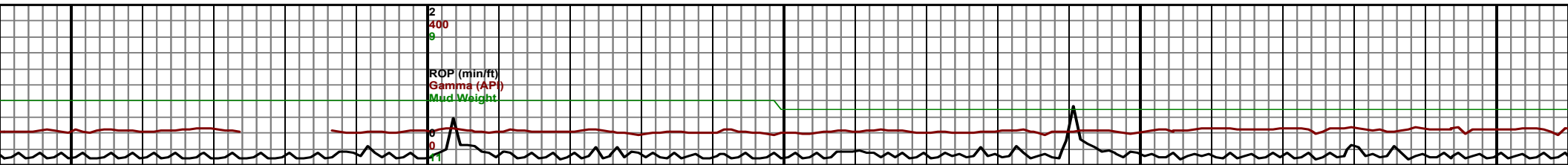
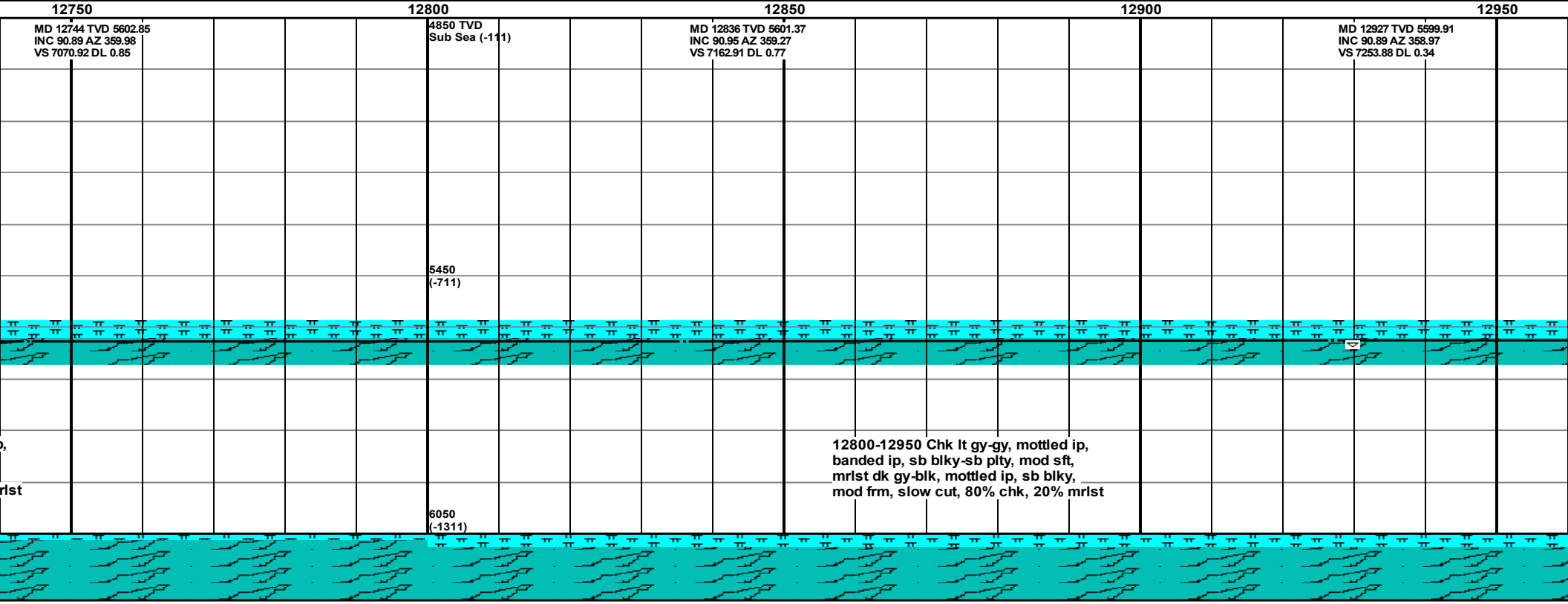
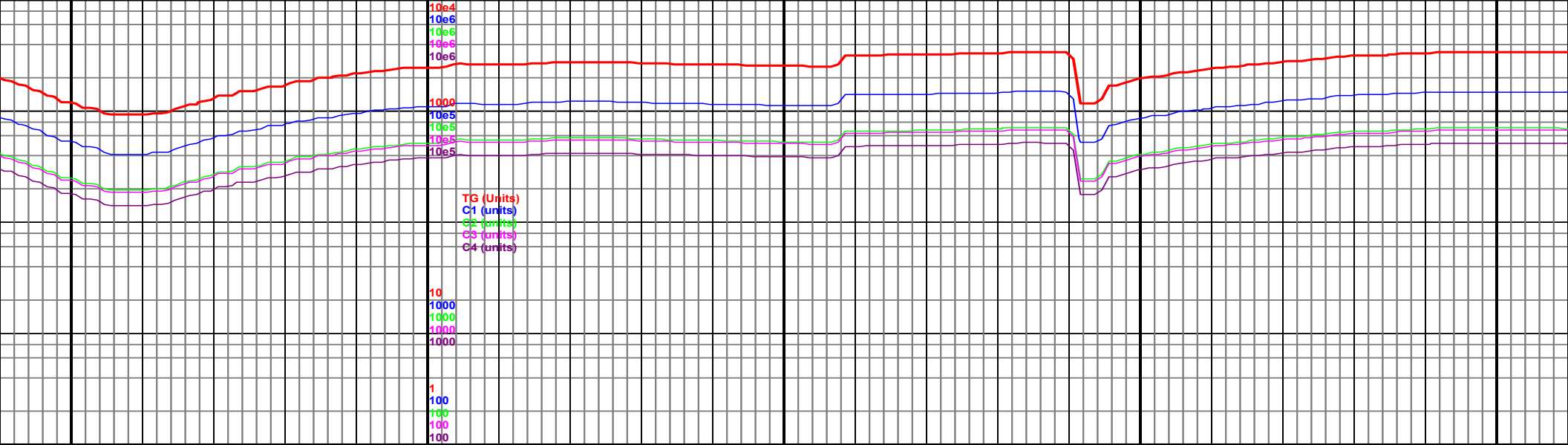
5450  
(-711)

6050  
(-1311)

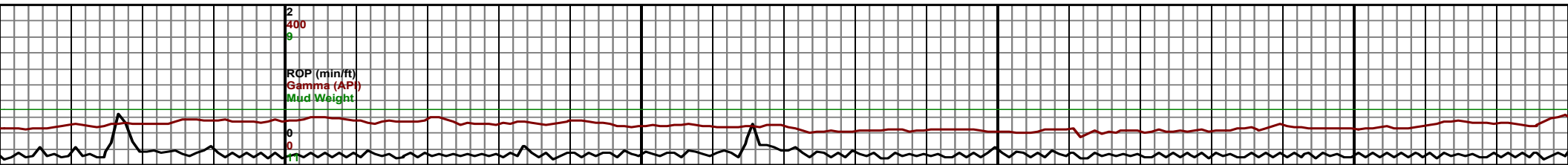
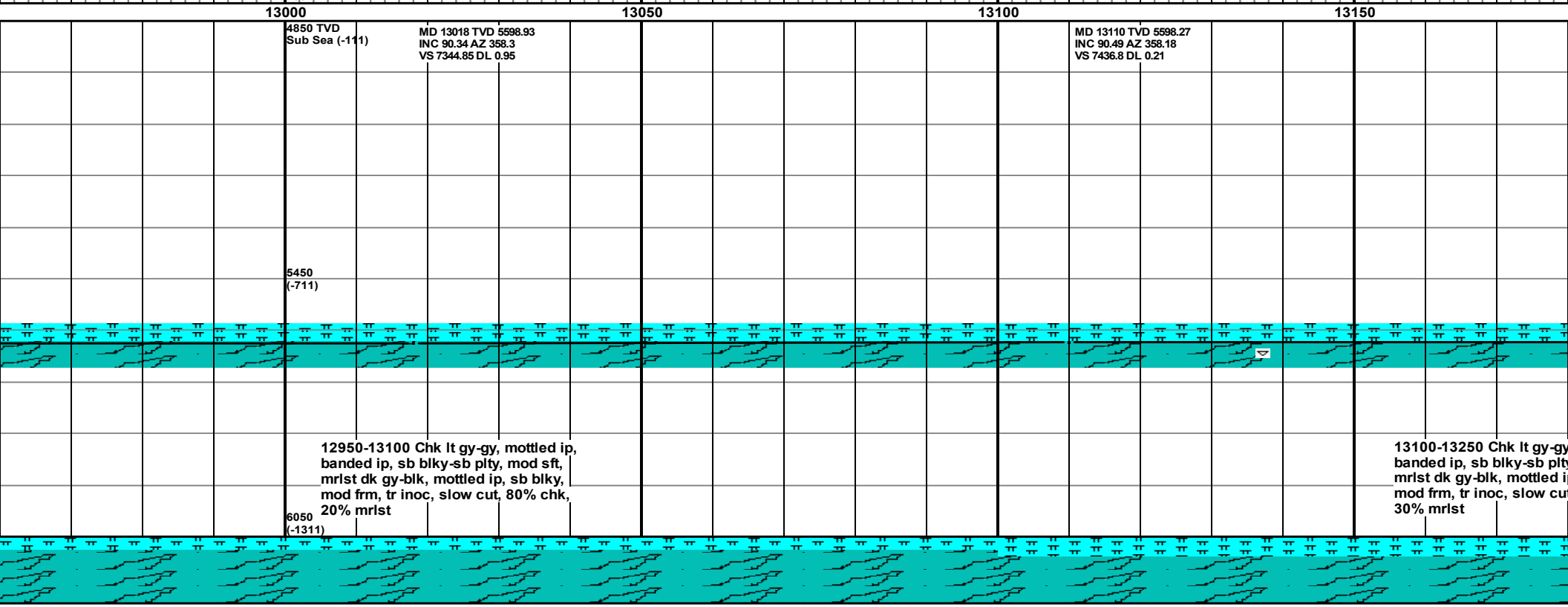
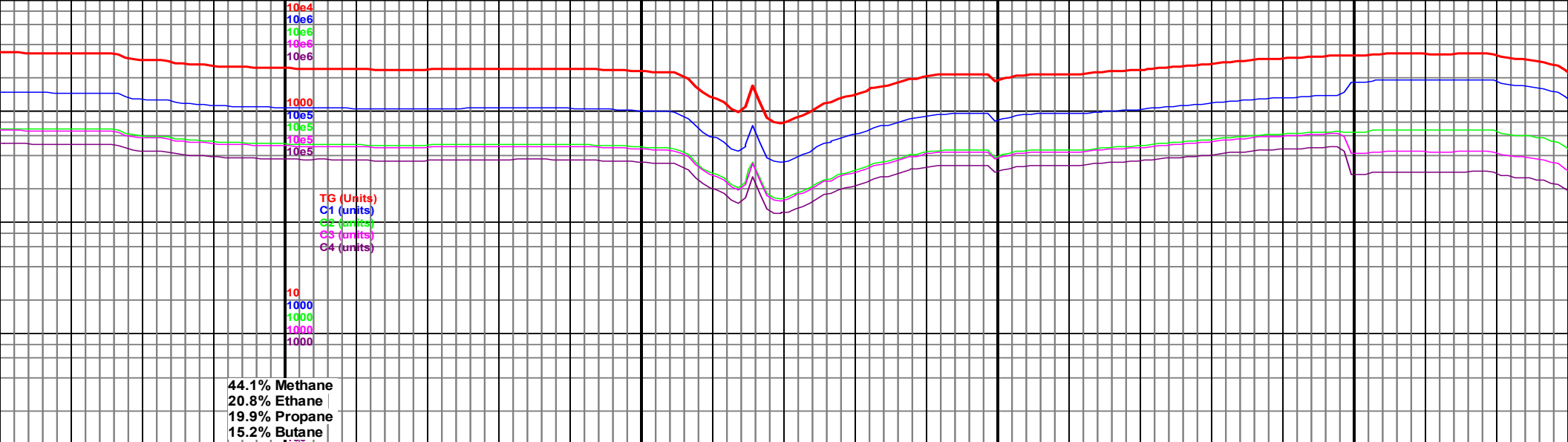


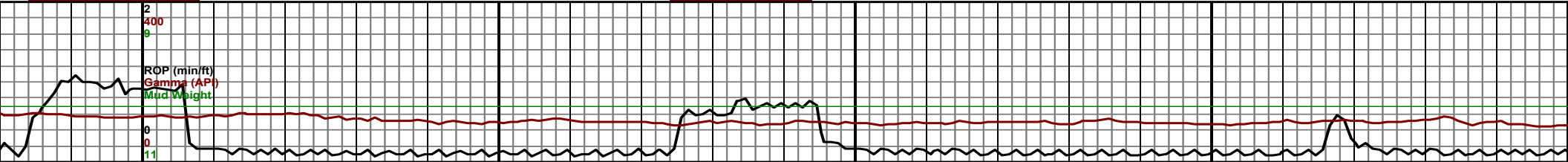
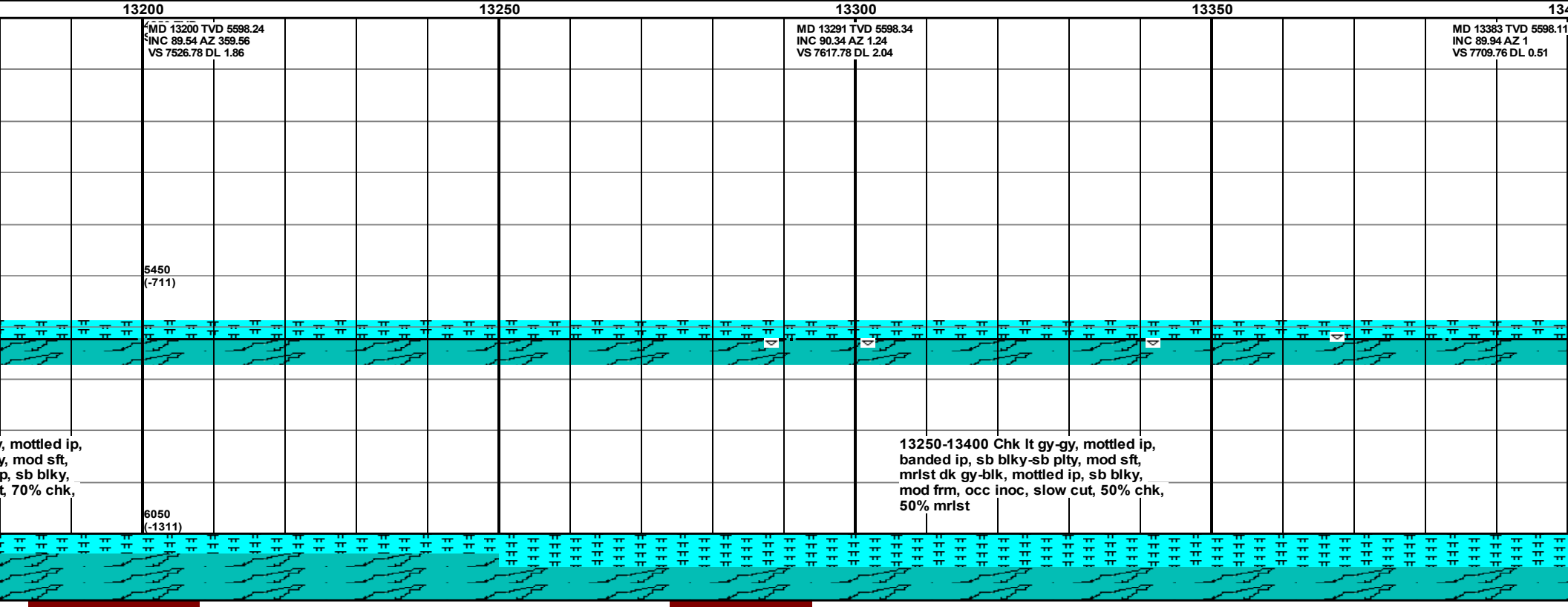
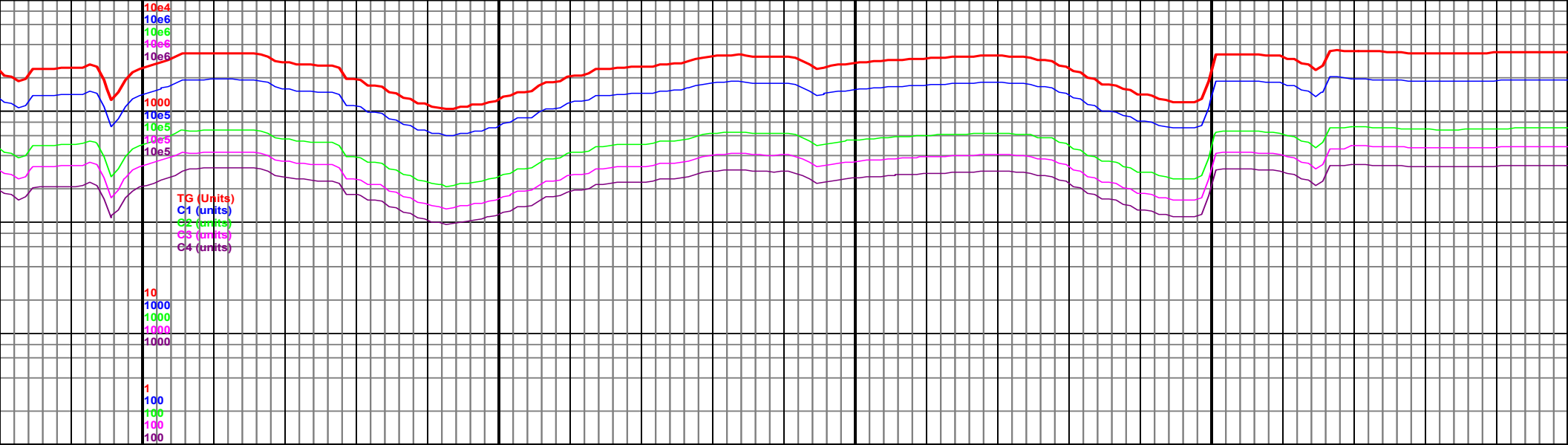


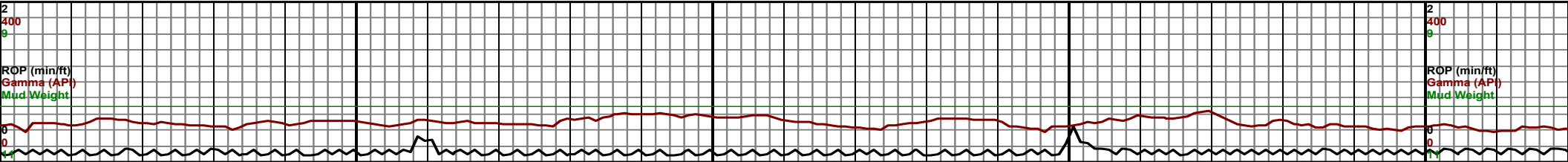
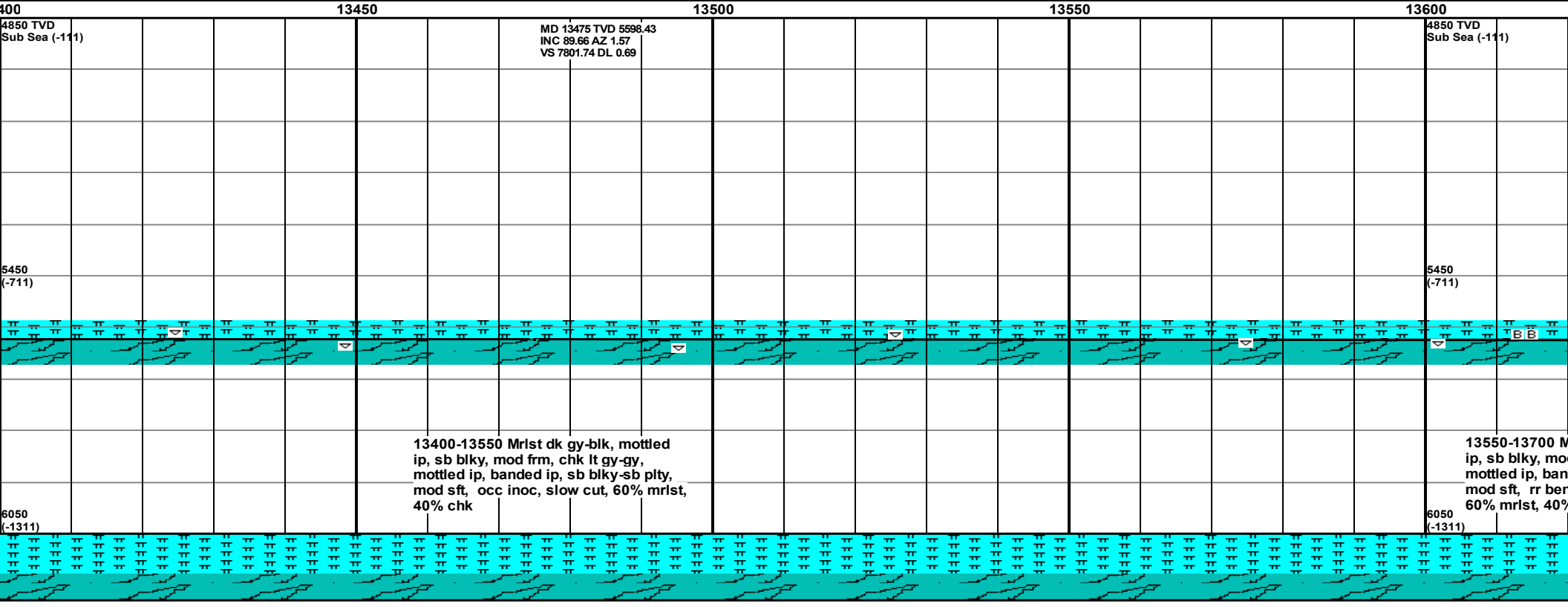
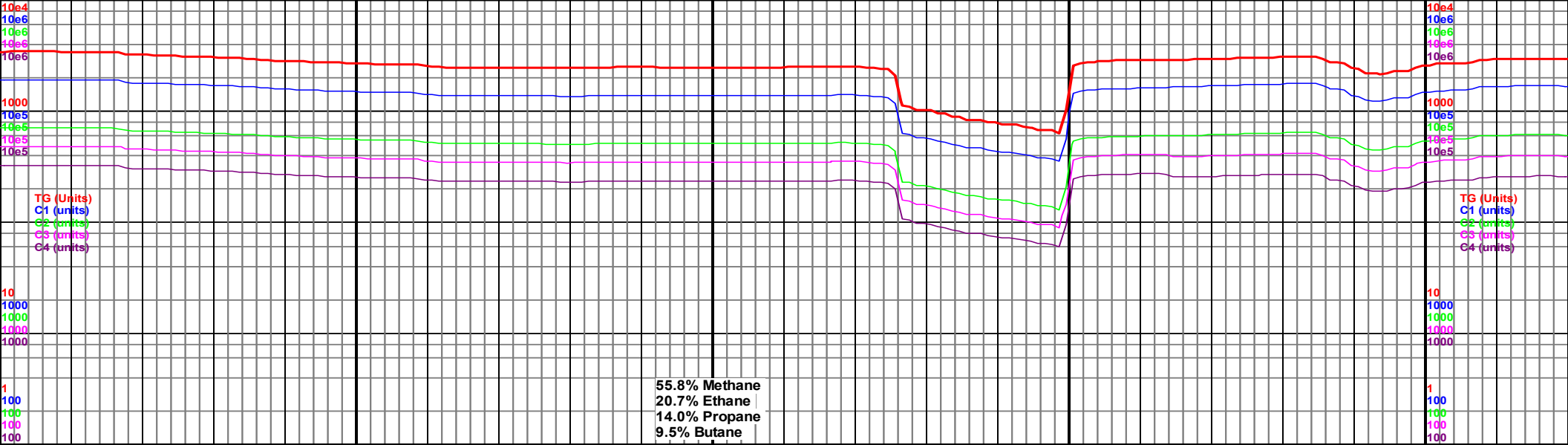




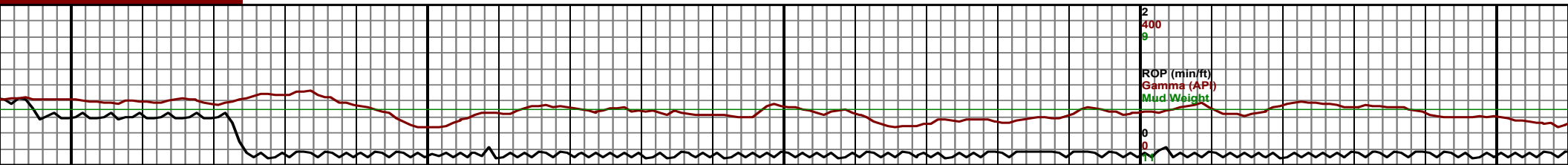
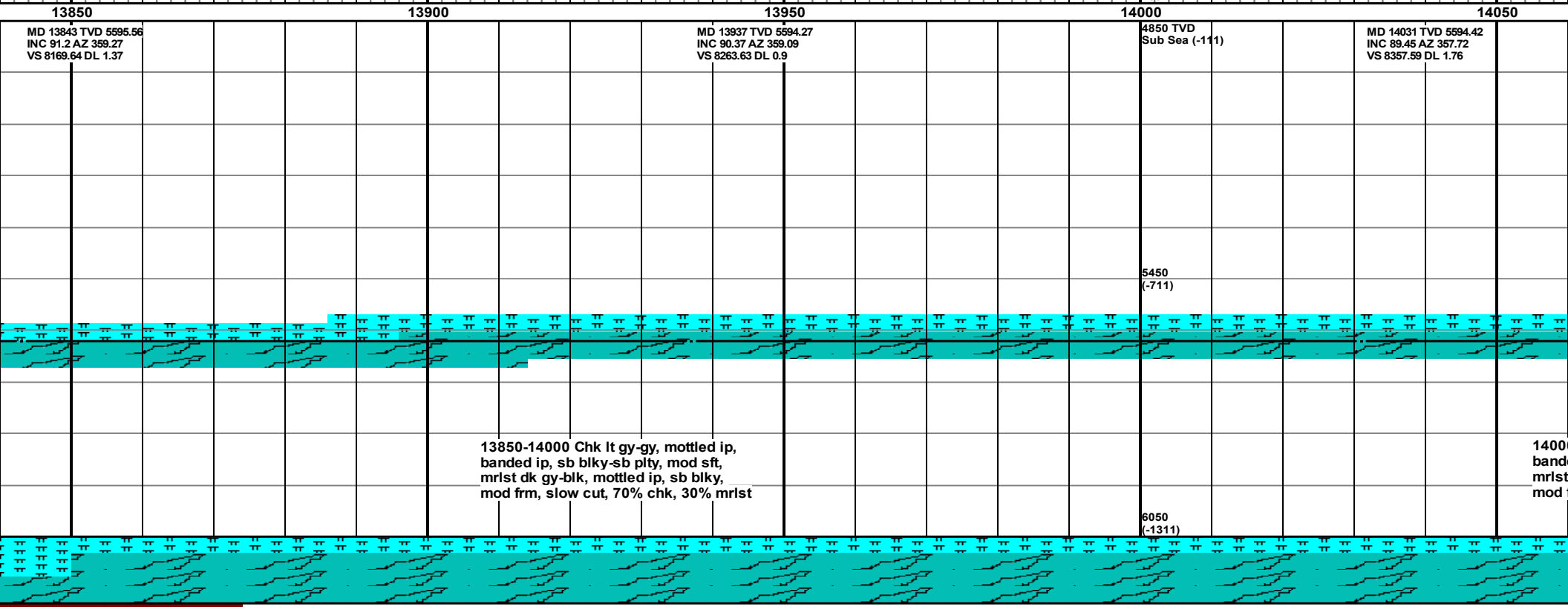
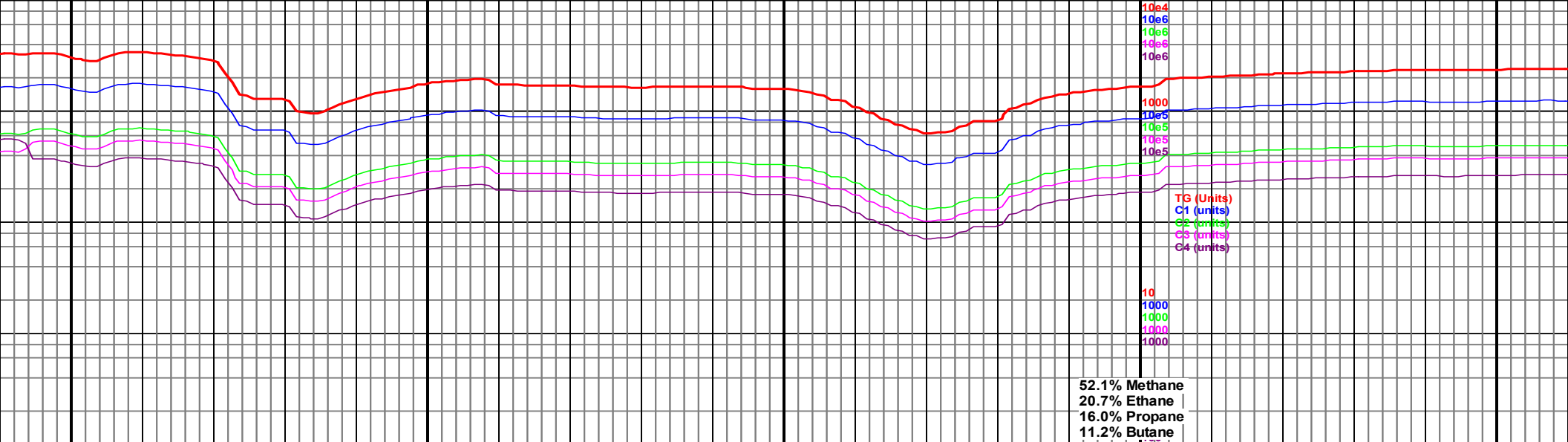


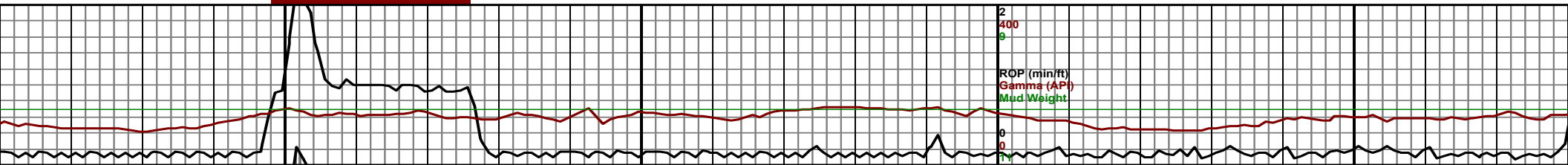
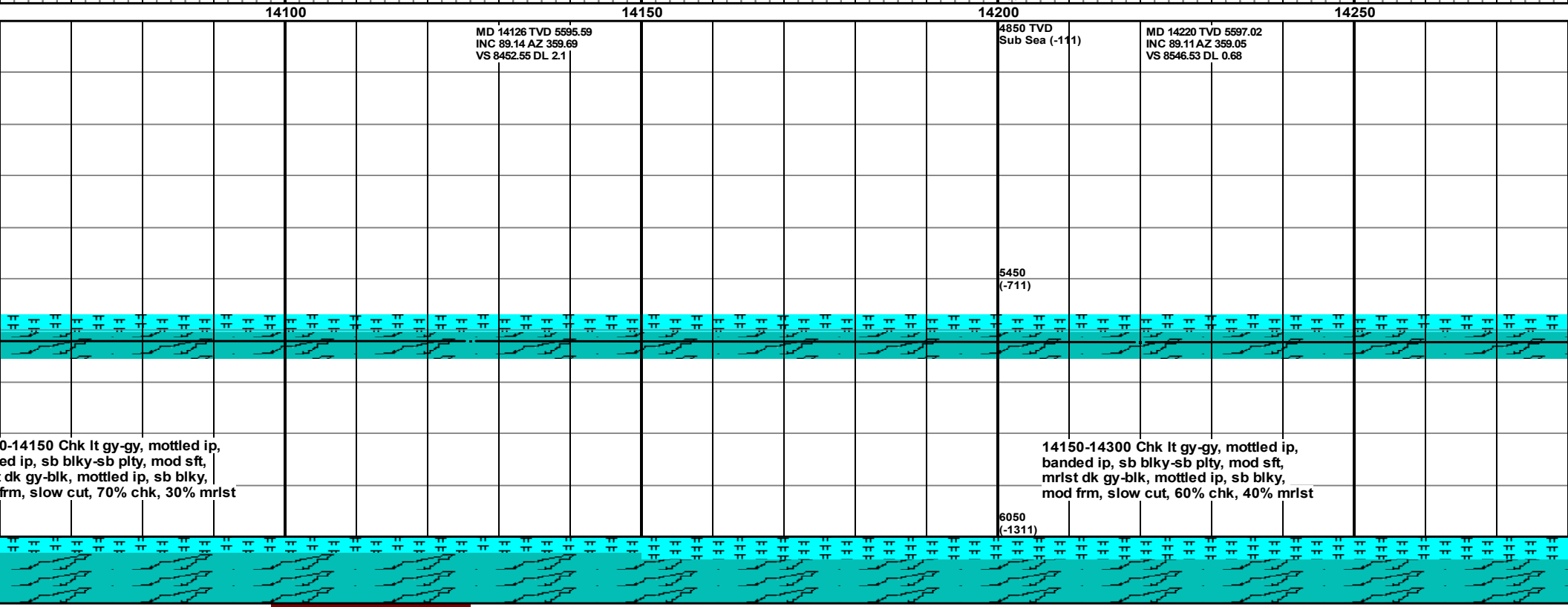
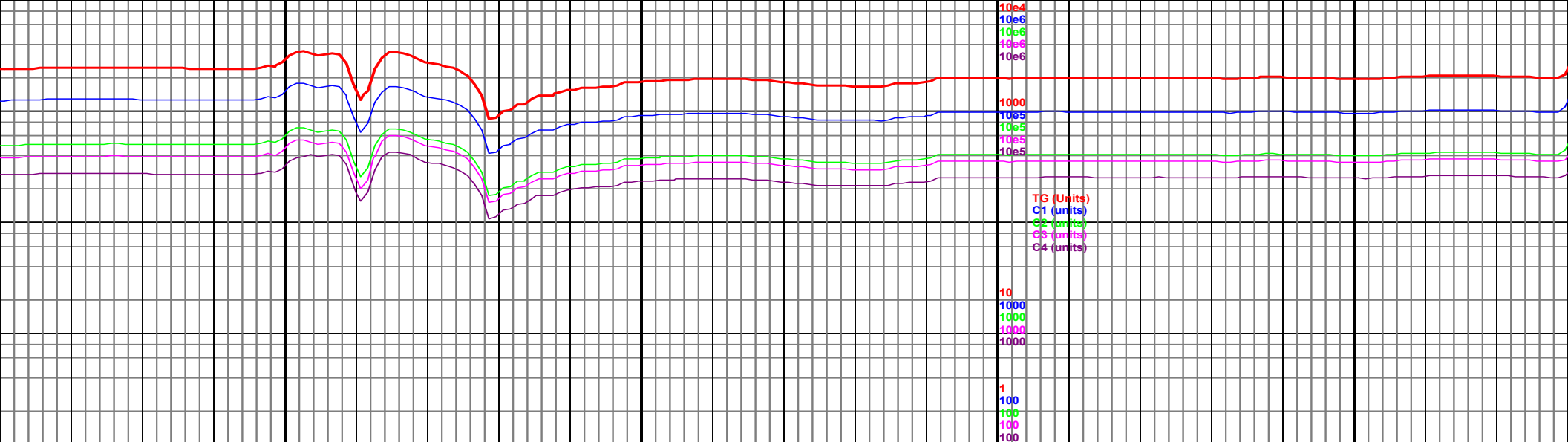


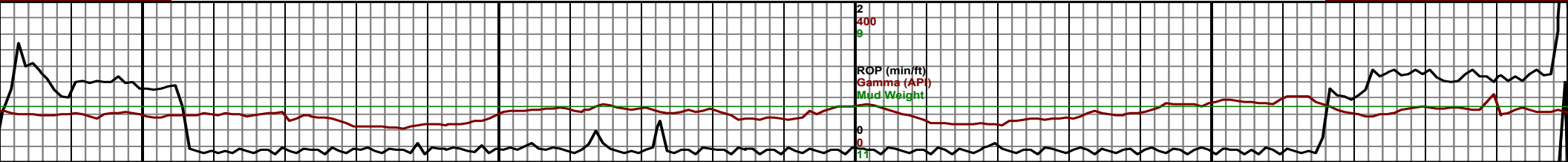
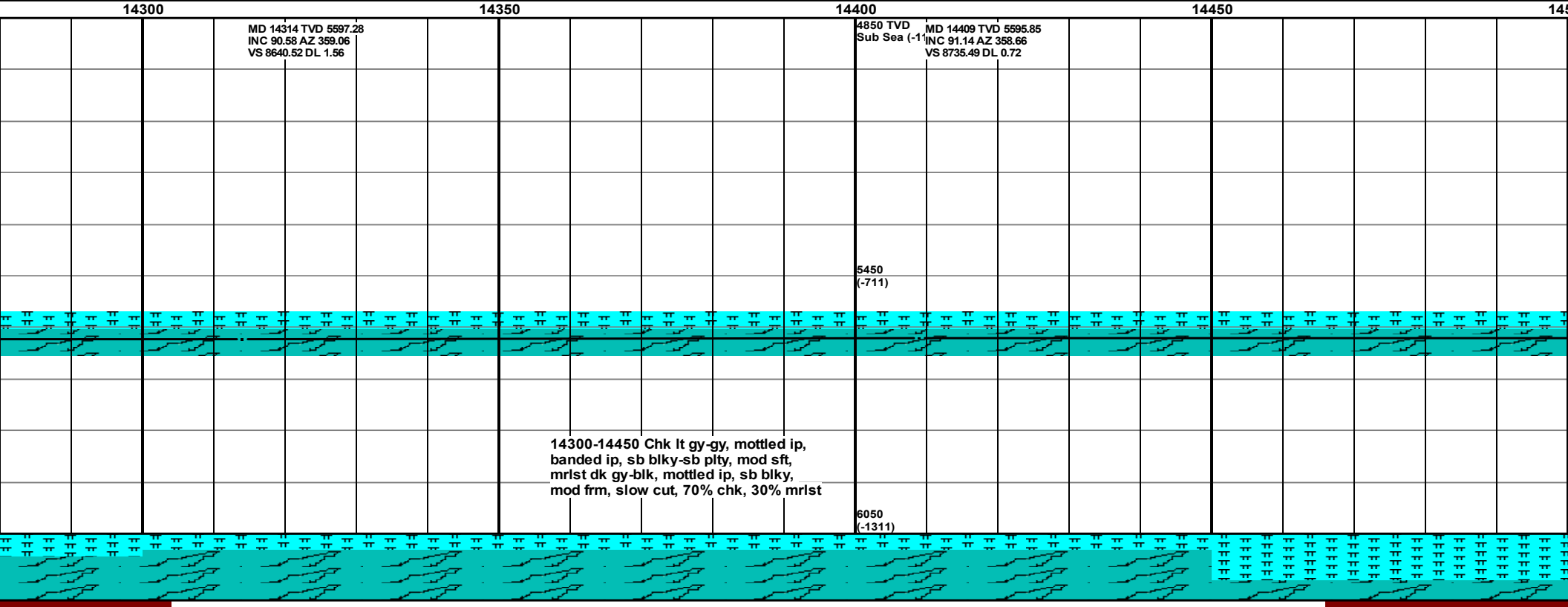
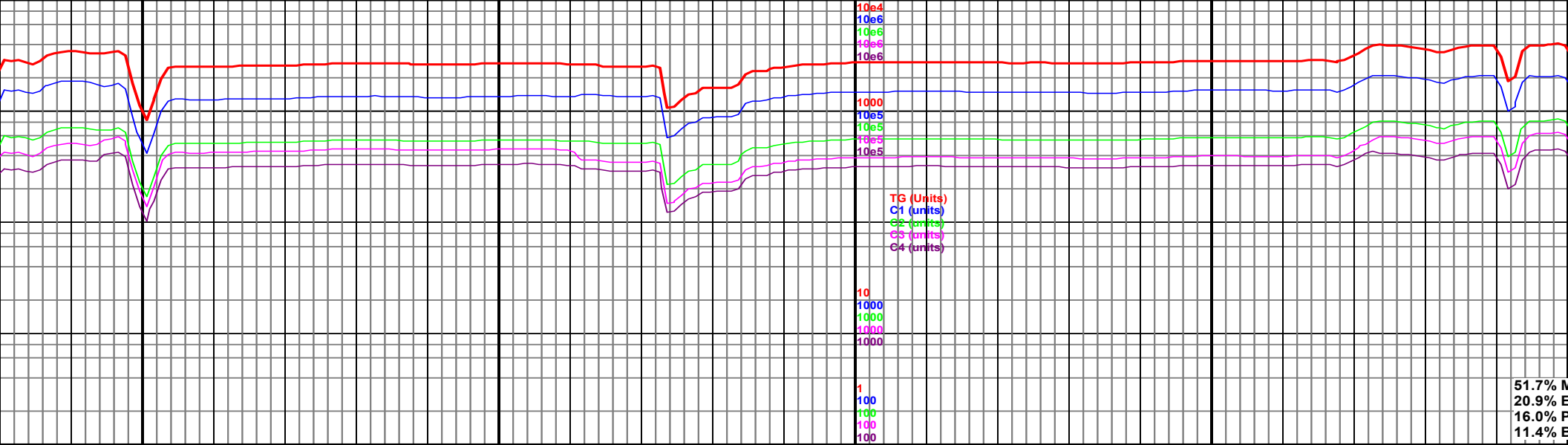






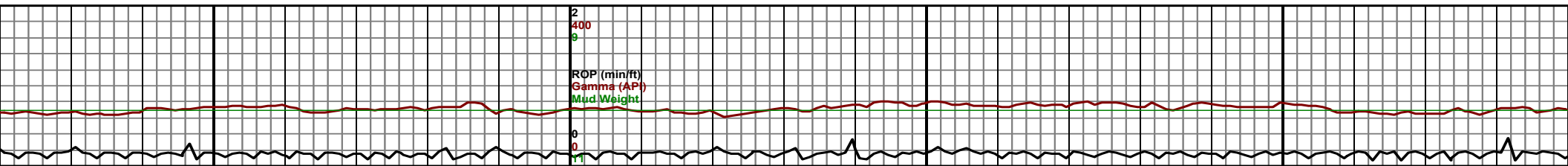
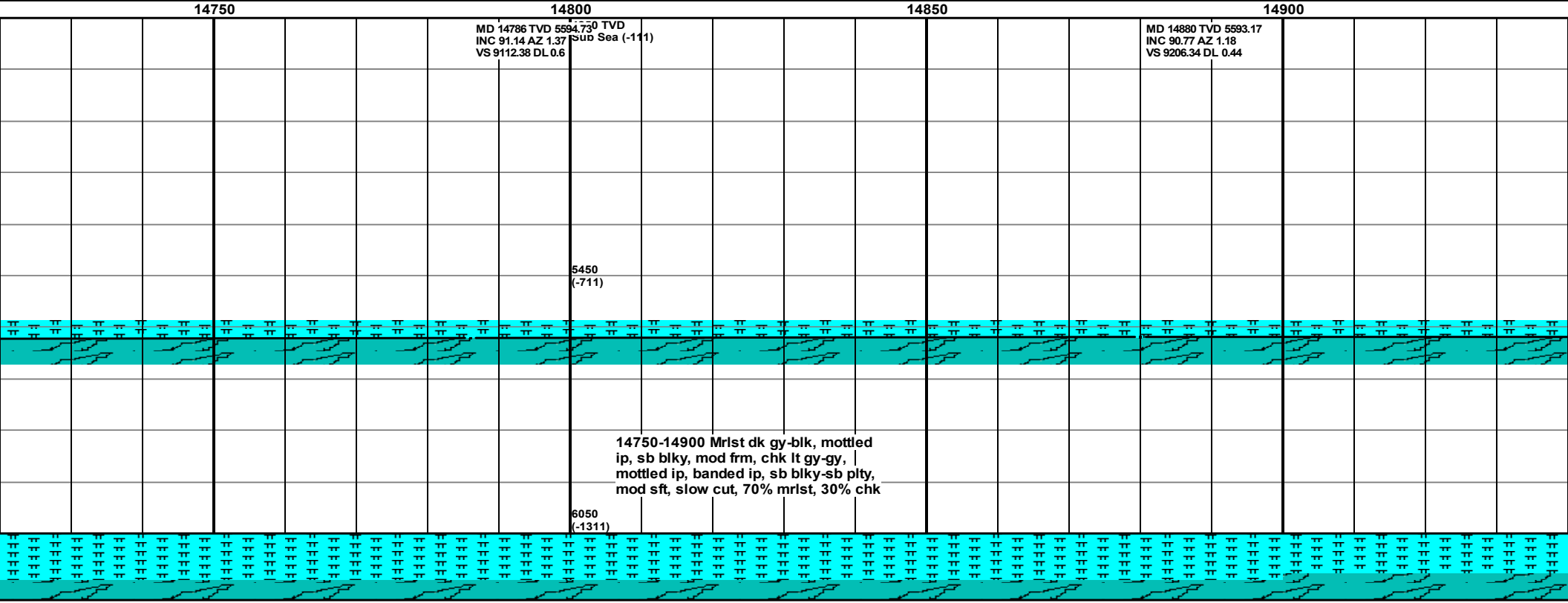
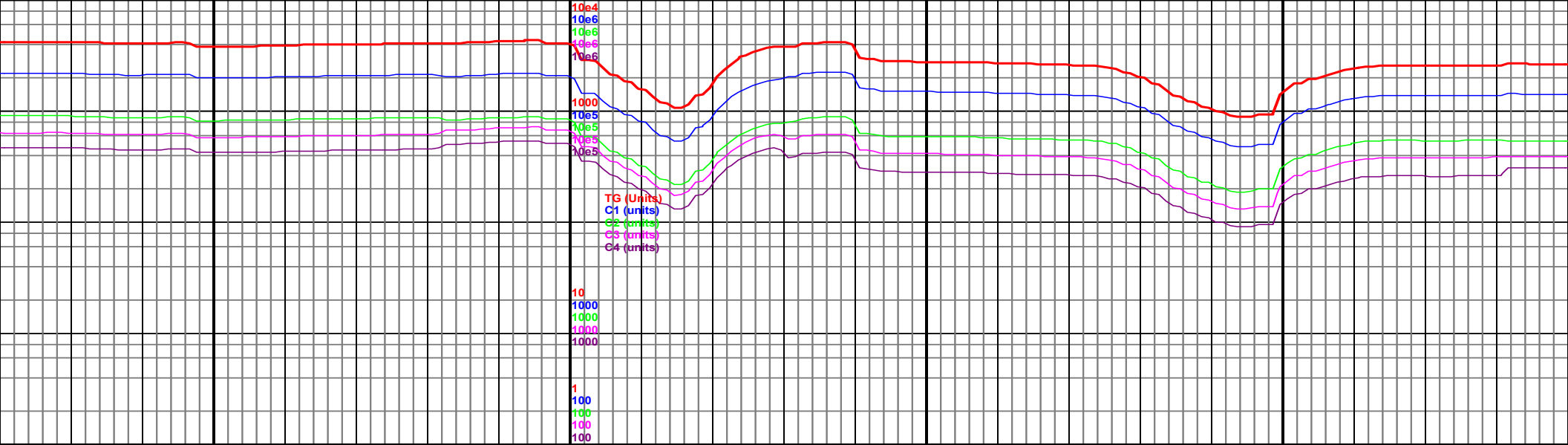


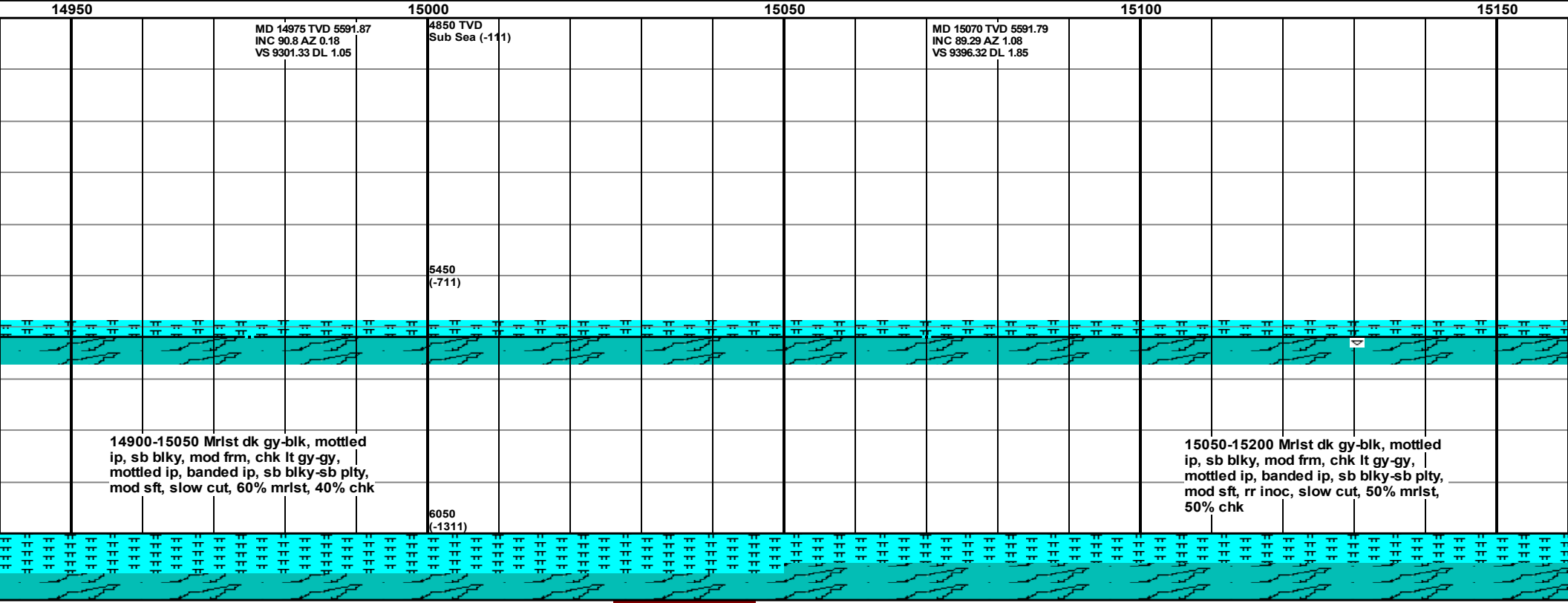
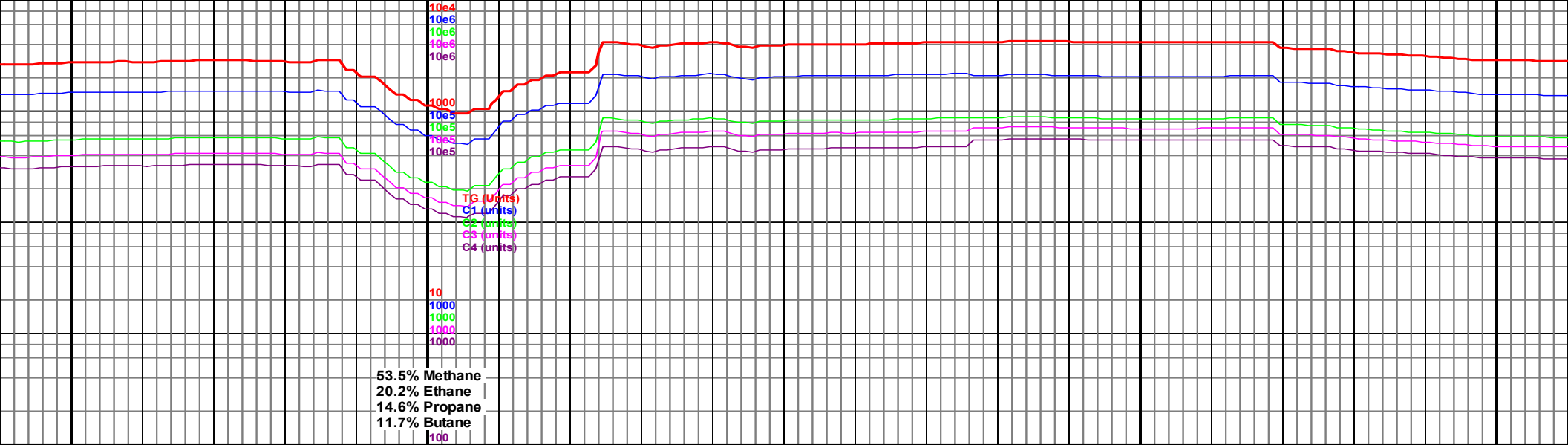


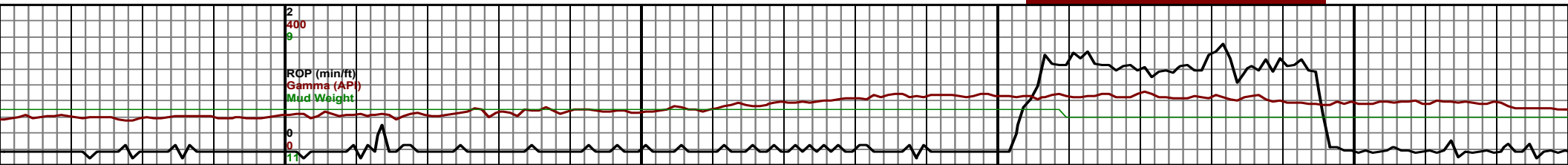
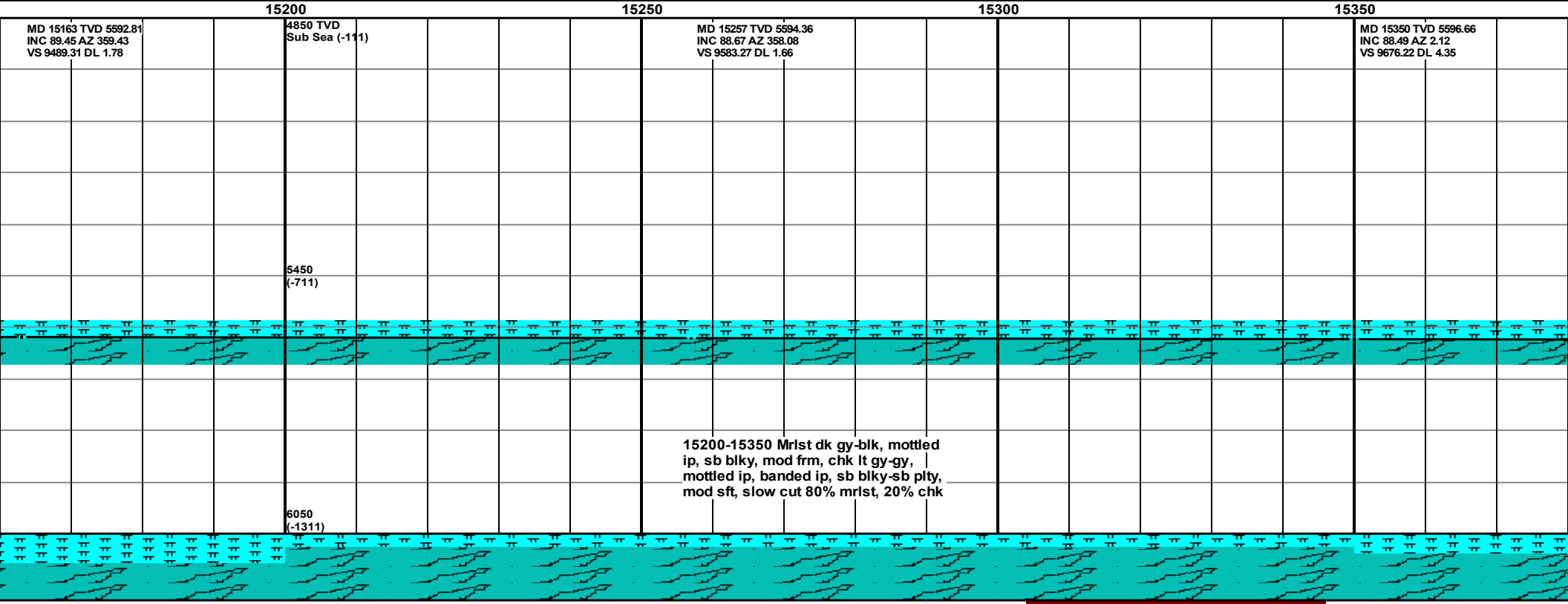
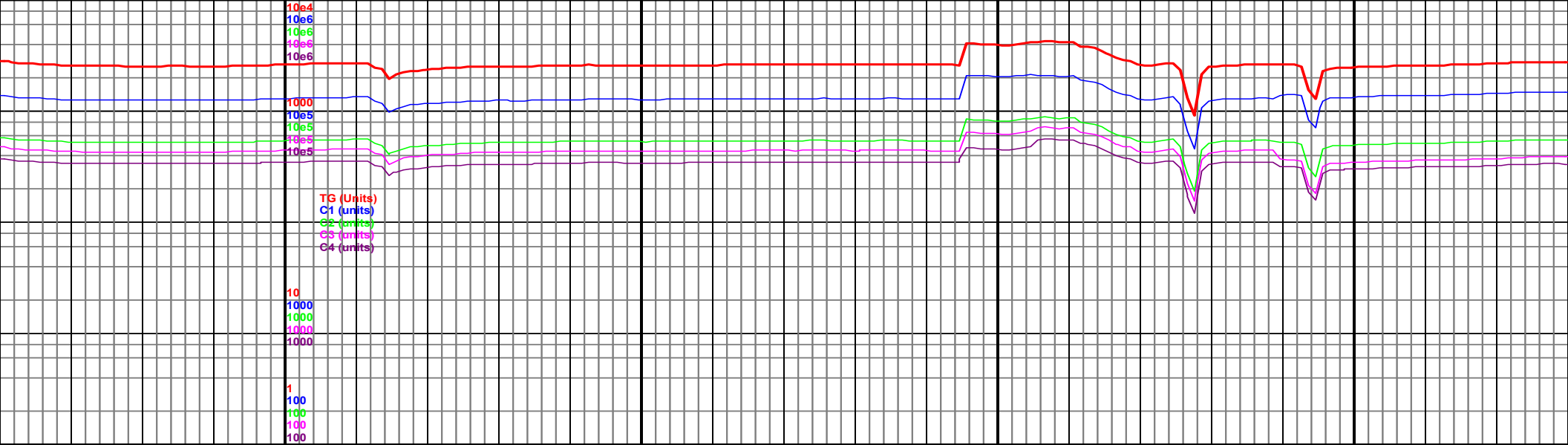


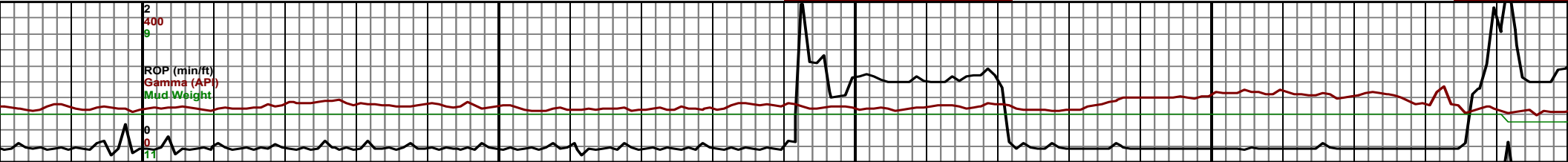
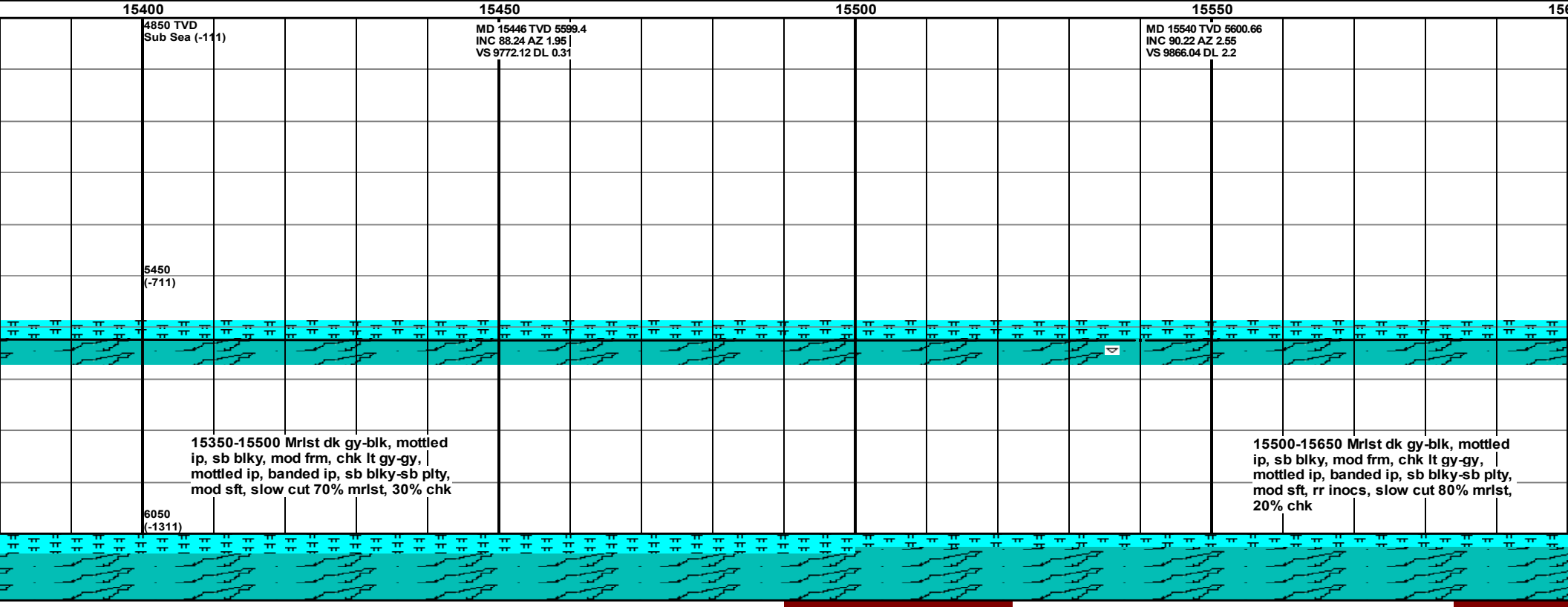
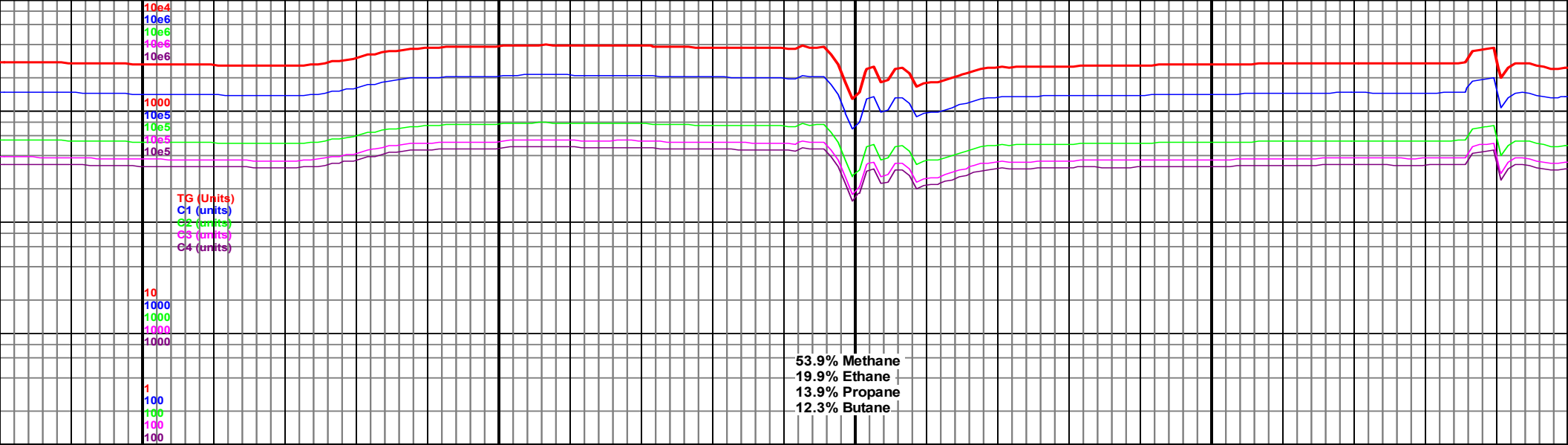


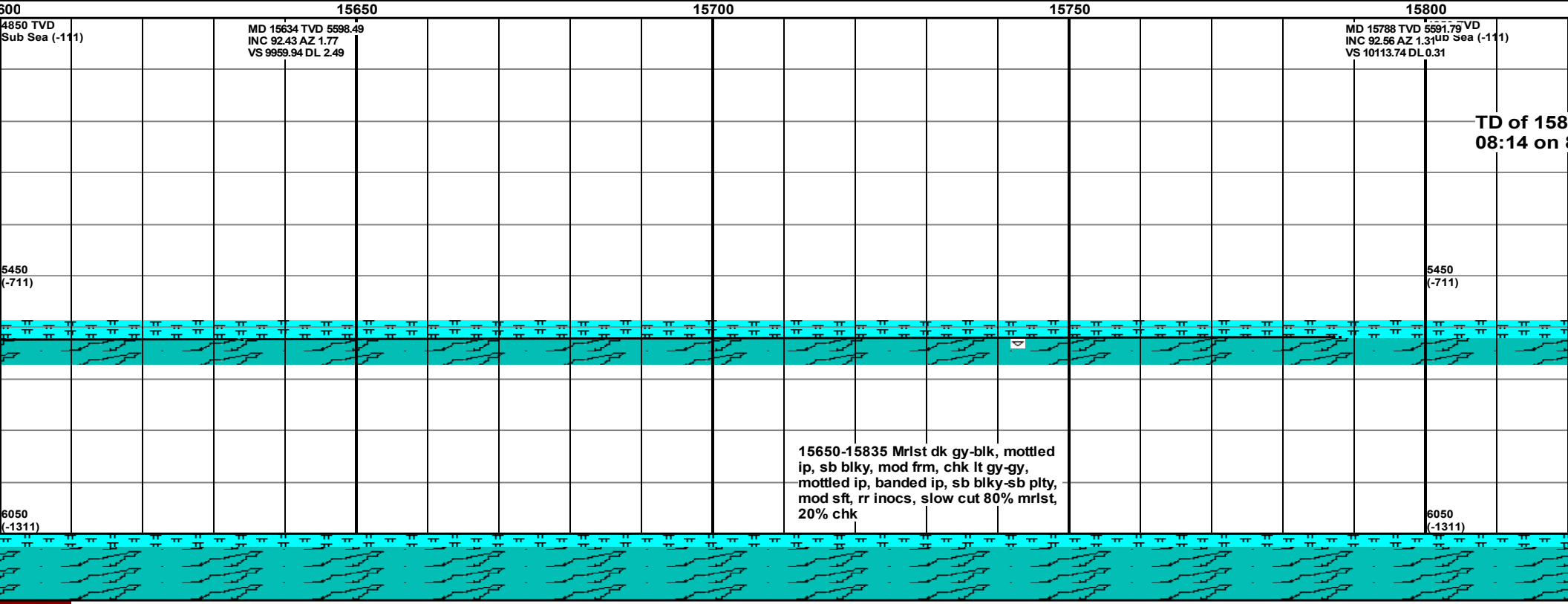


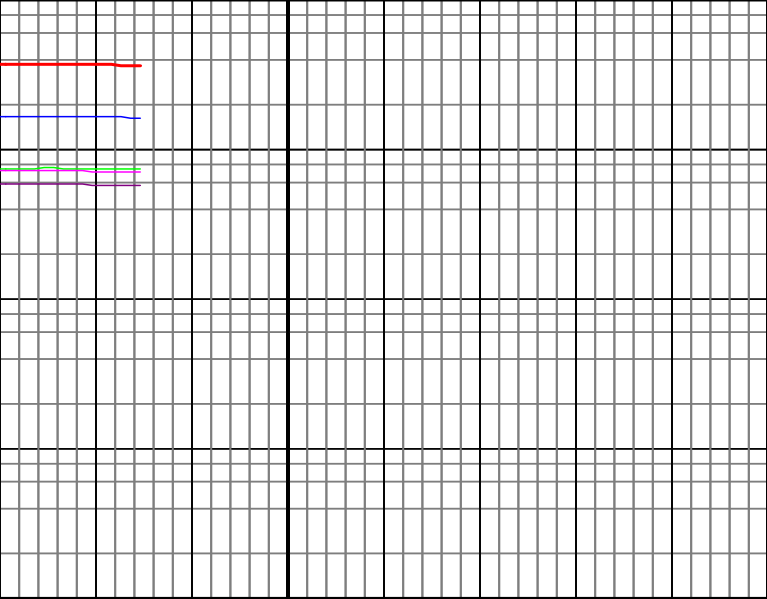












15850

15

35' MD reached at  
8/29/2016.

