



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

Well Name: Horsetail 07H-1813
Well Id: 05-123-41832-00
Location: Sec 7-T10N-R57W
License Number: 05-123-41832-00
Spud Date: 6/11/2016
Surface Coordinates: 40.853556
-103.787661

Region: Wildcat Field
Drilling Completed: 6/14/2016

Bottom Hole
Coordinates:
Ground Elevation (ft): 4912
Logged Interval (ft): 5128 To: 14020
Formation: Pierre, Sharon Springs, Niobrara A,
Type of Drilling Fluid: Water Based Mud

K.B. Elevation (ft): 4933
Total Depth (ft): 14020

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

Drilling Company

Unit Drilling Company
Rig 406

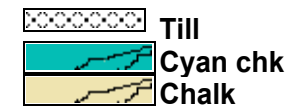
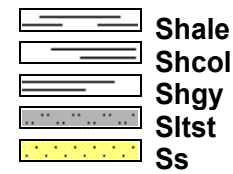
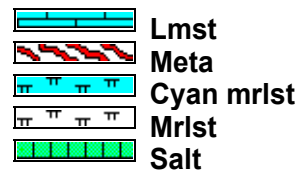
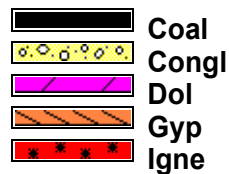
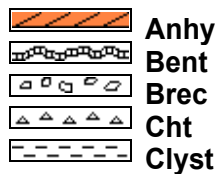
Gas Detection

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

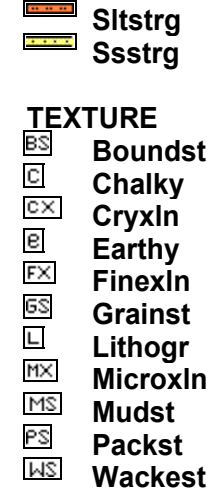
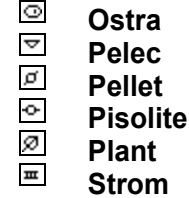
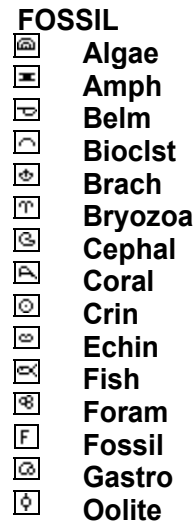
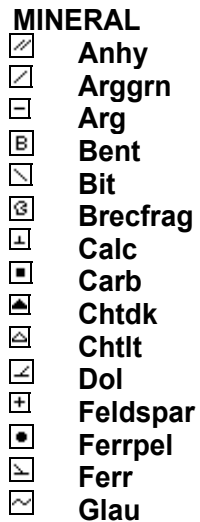
Comments

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



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

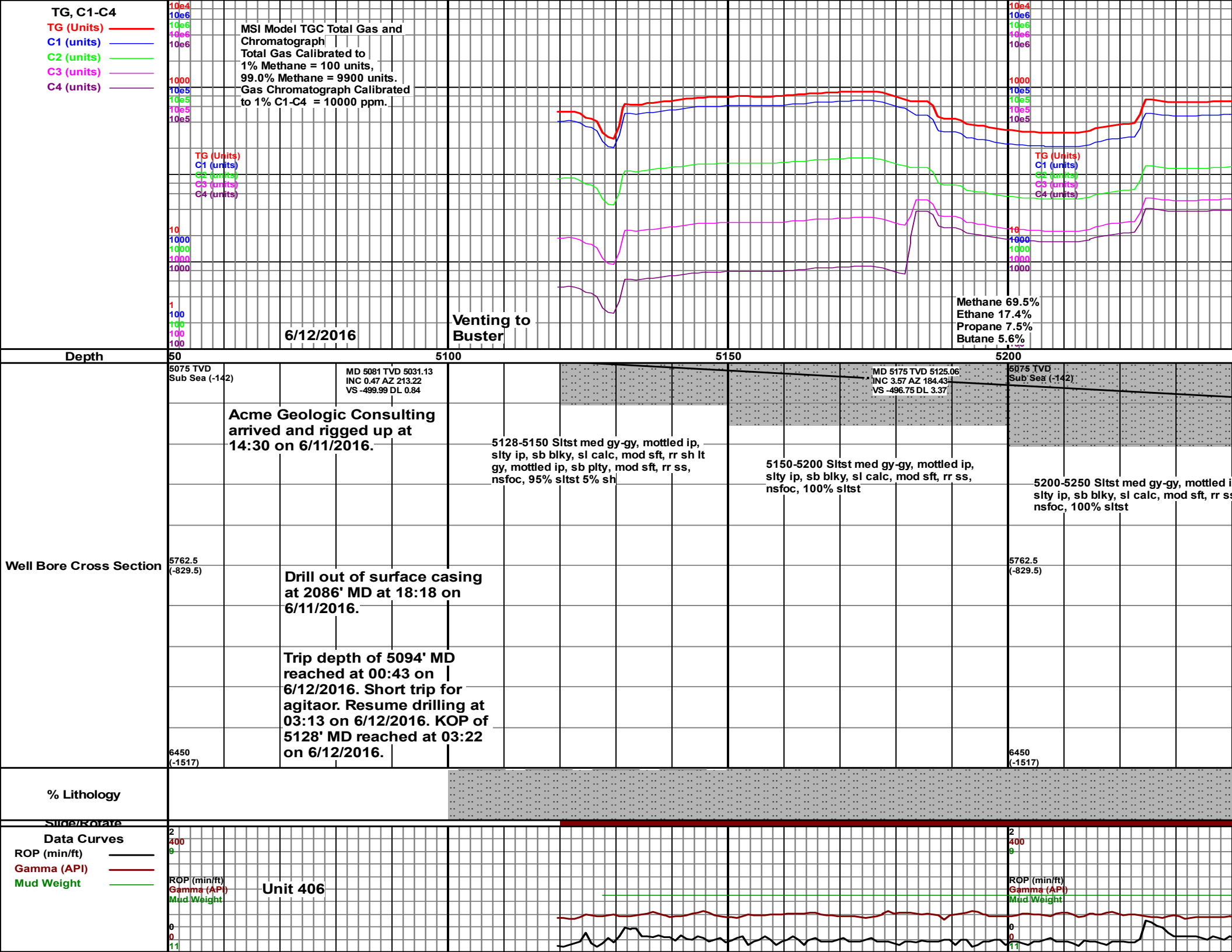
-  Ques
-  Dead

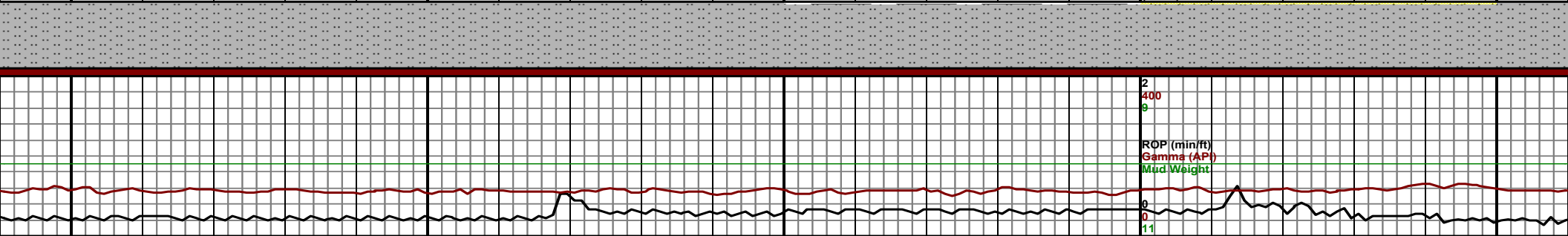
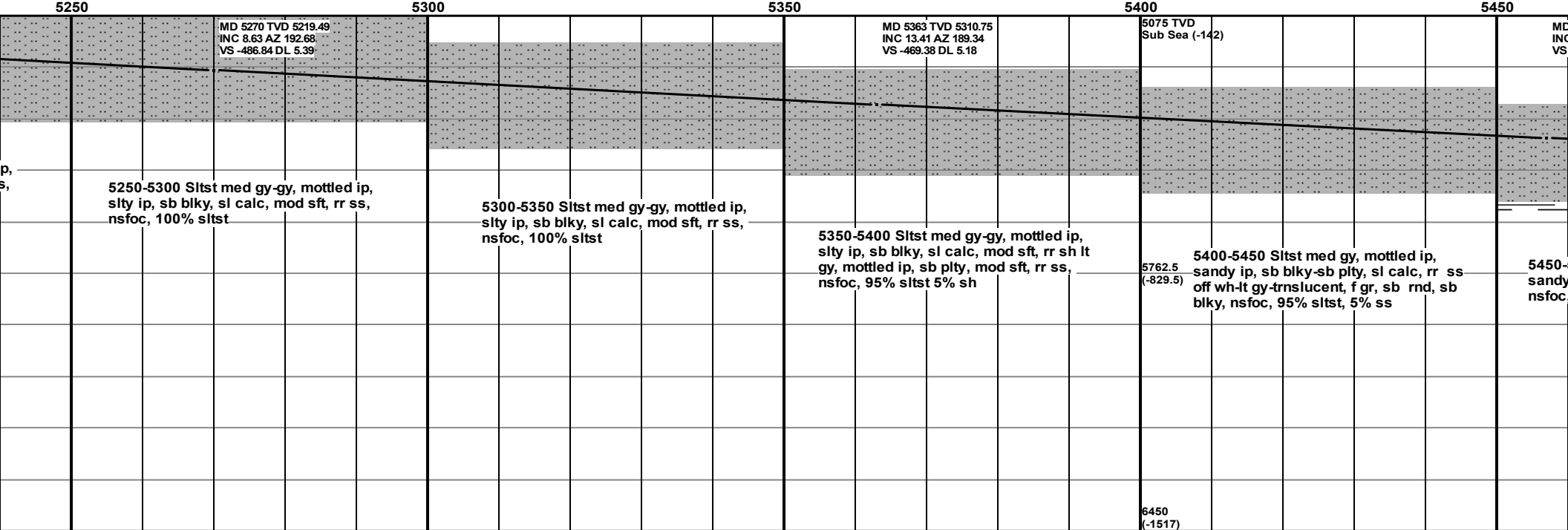
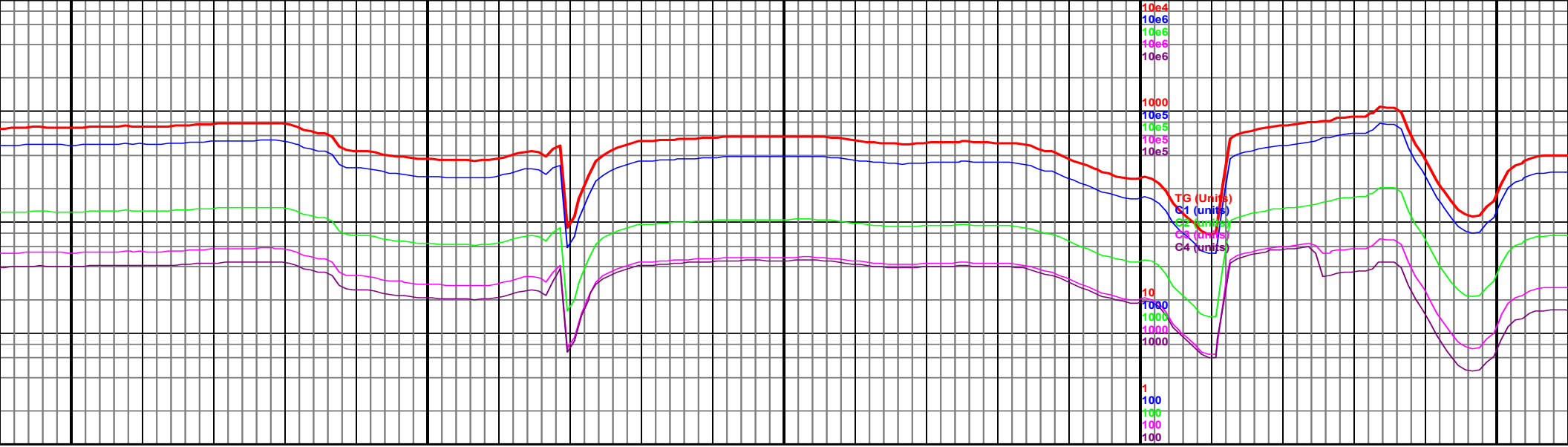
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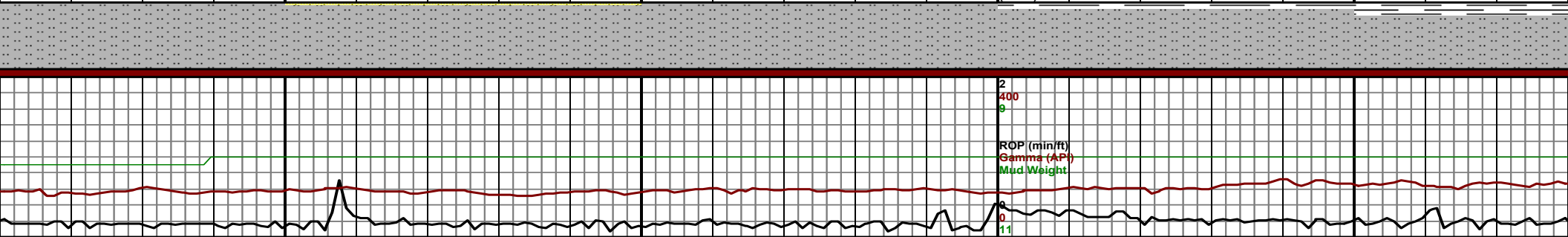
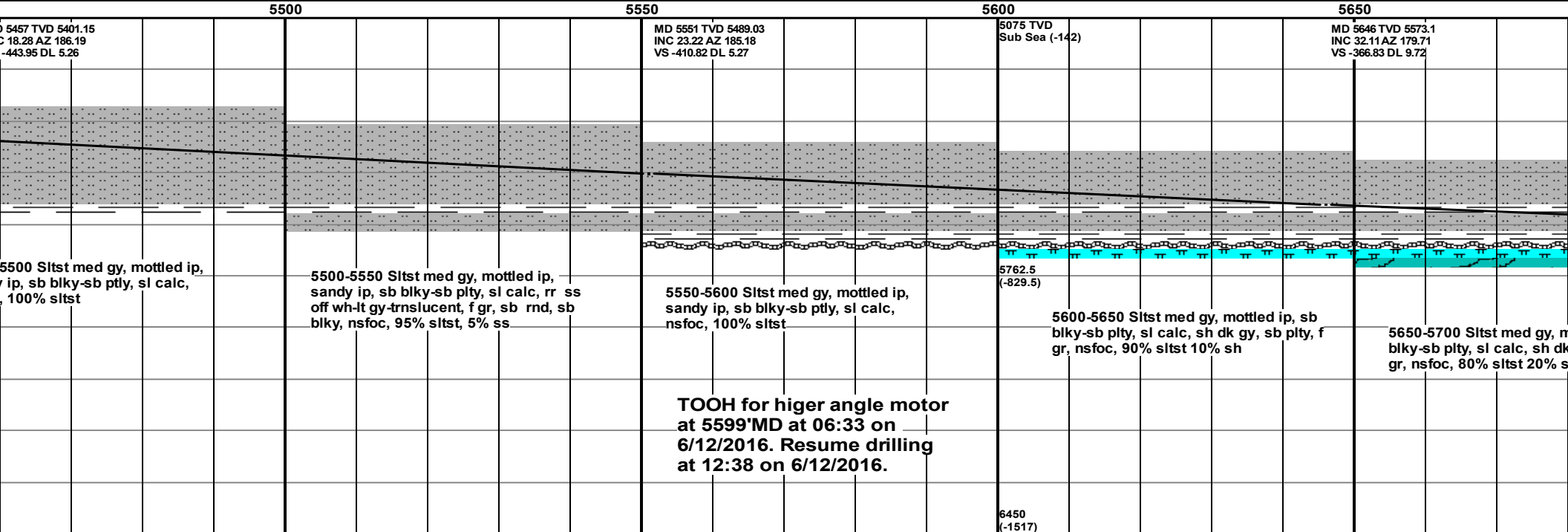
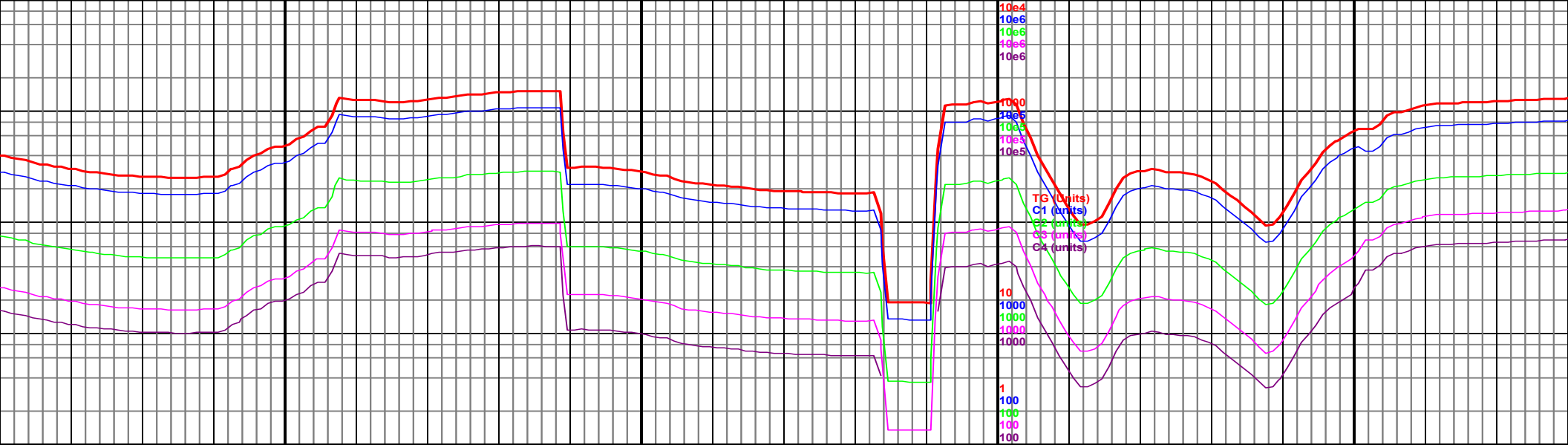
-  Core
-  Dst

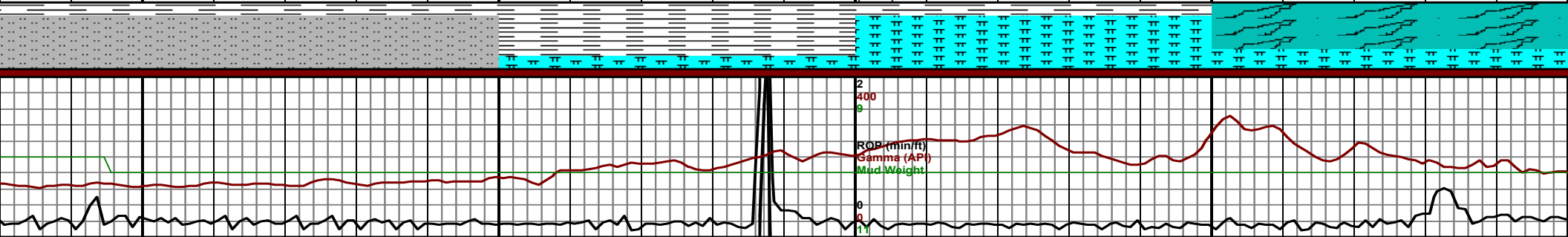
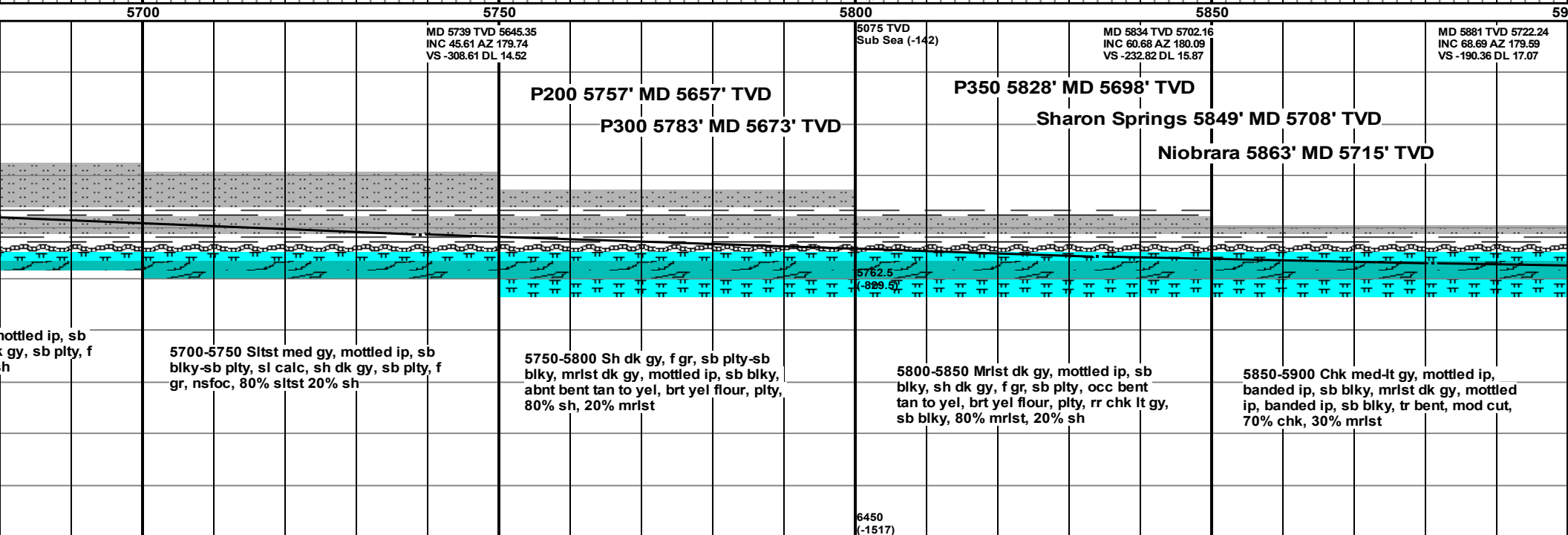
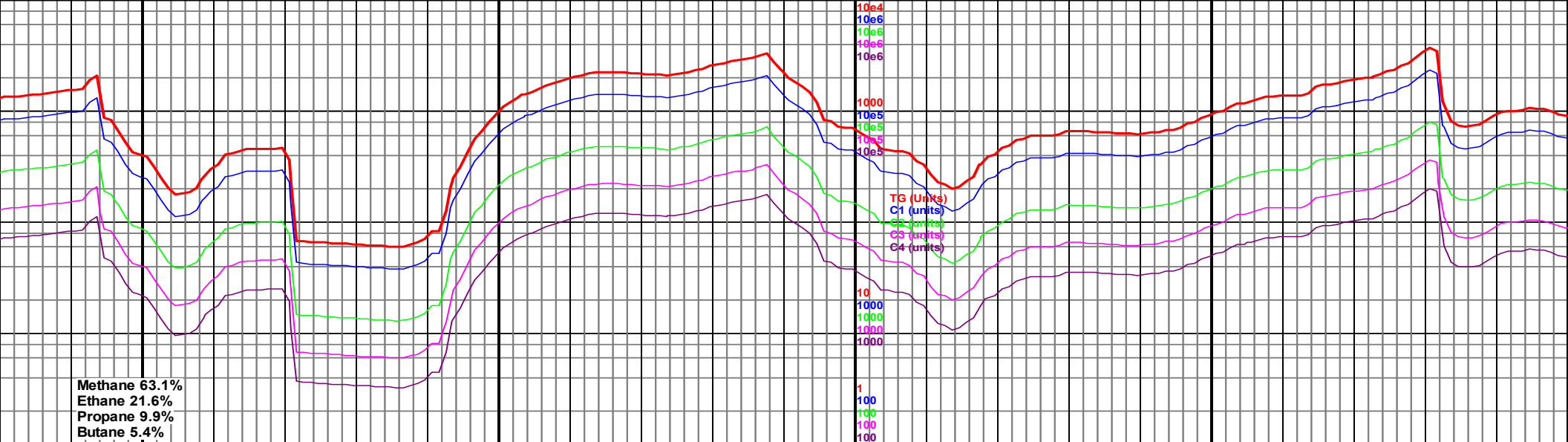
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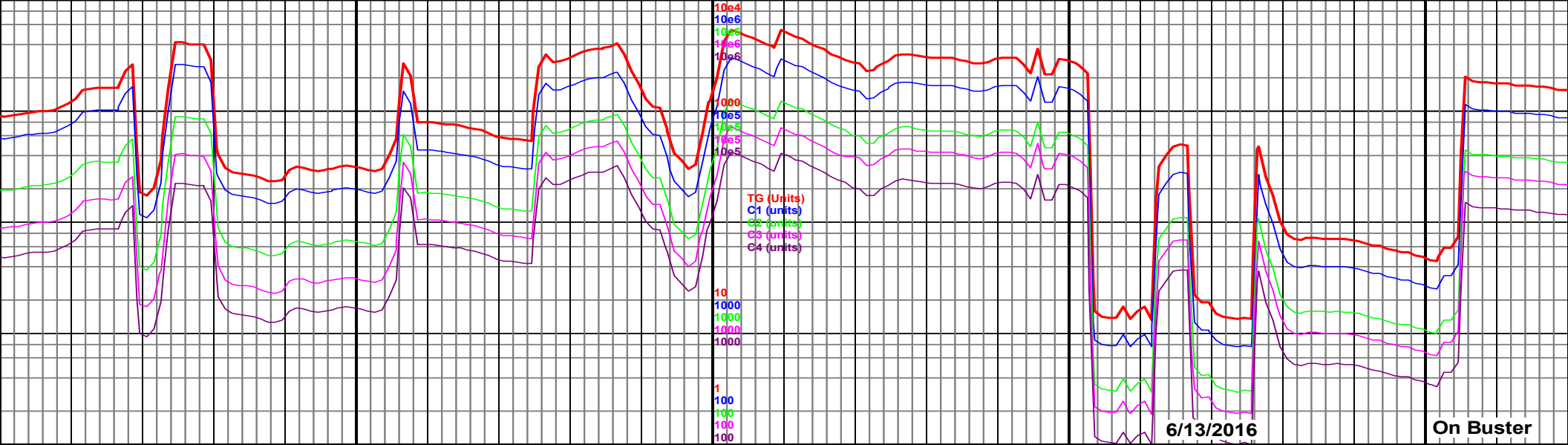
-  Rft
-  Sidewall



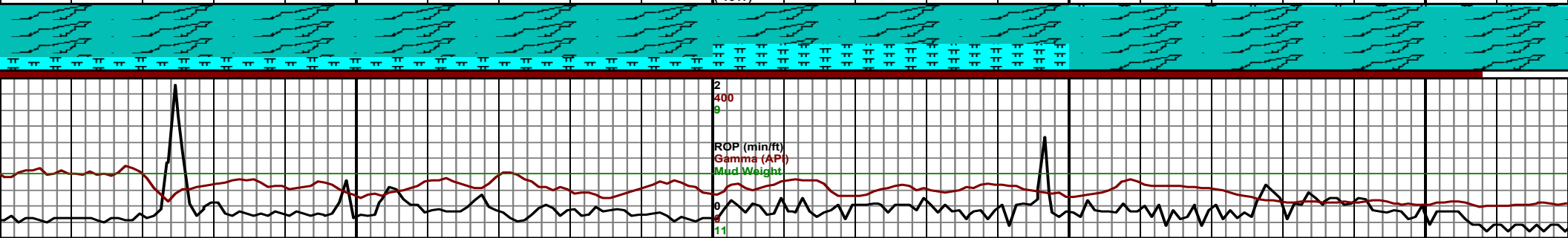


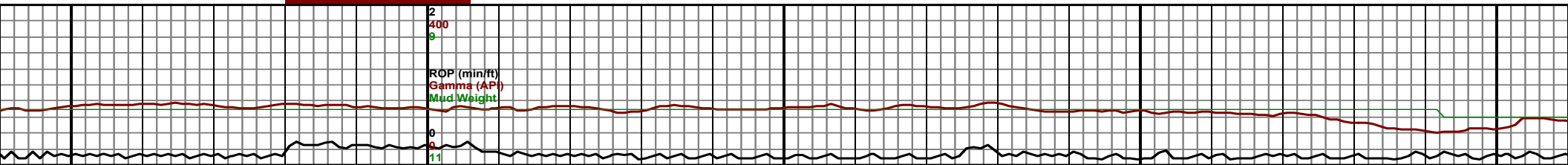
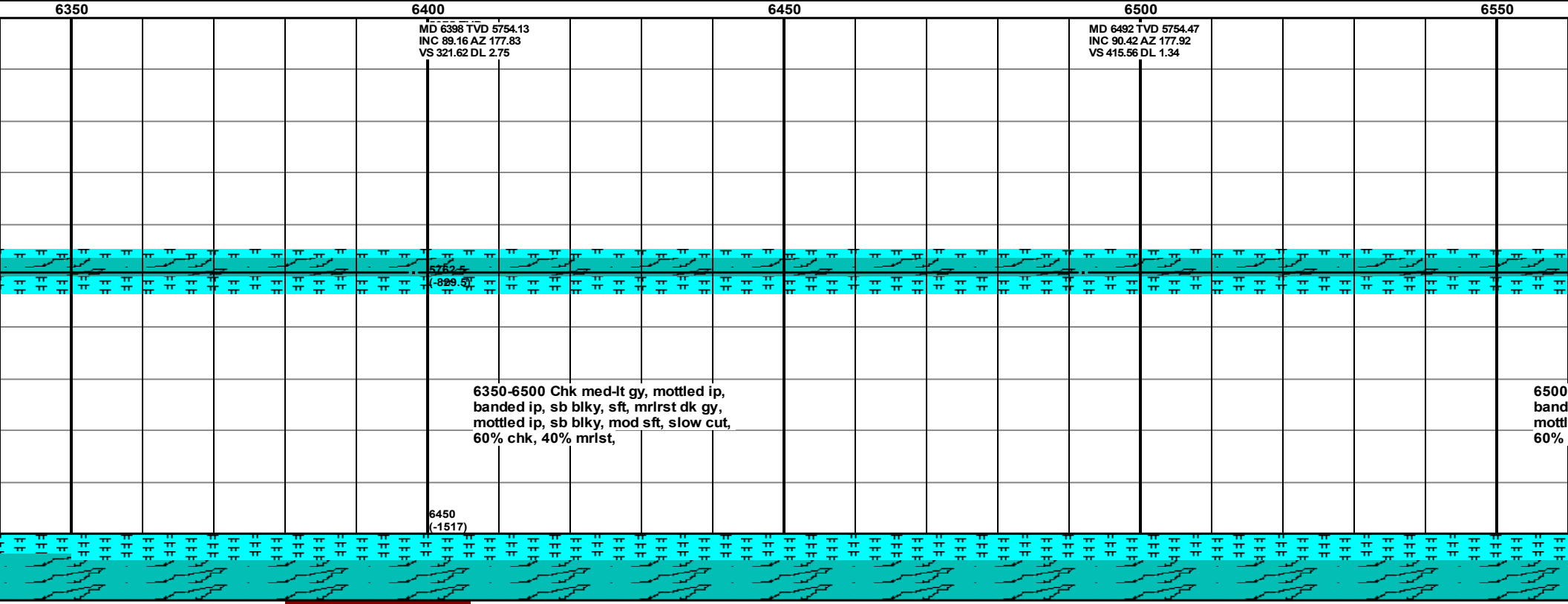
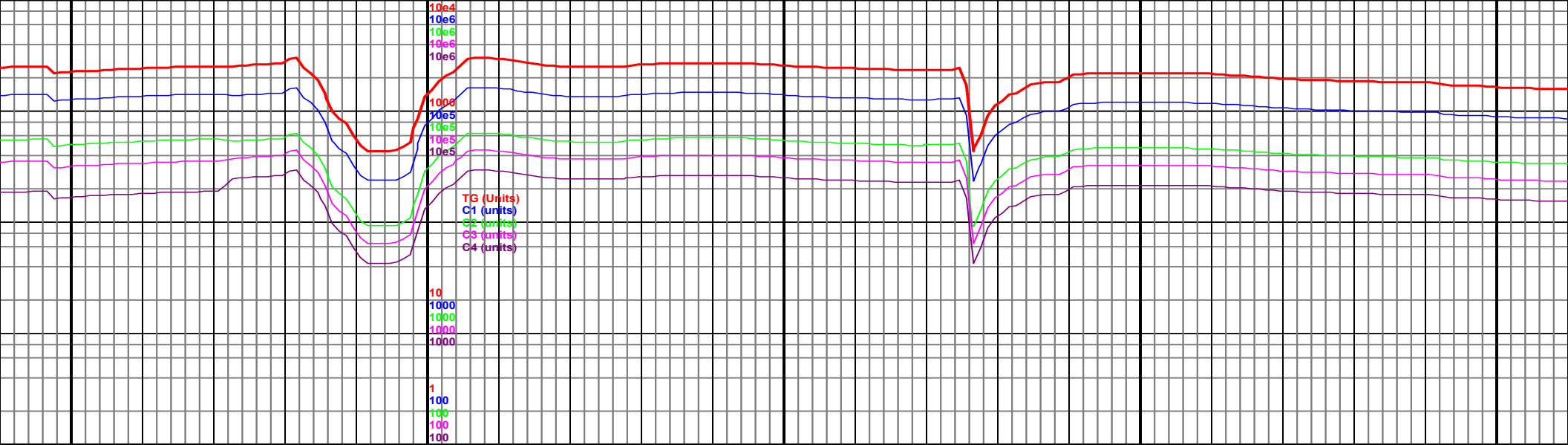


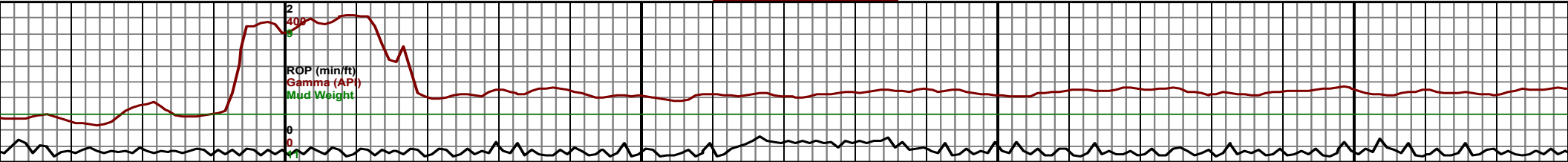
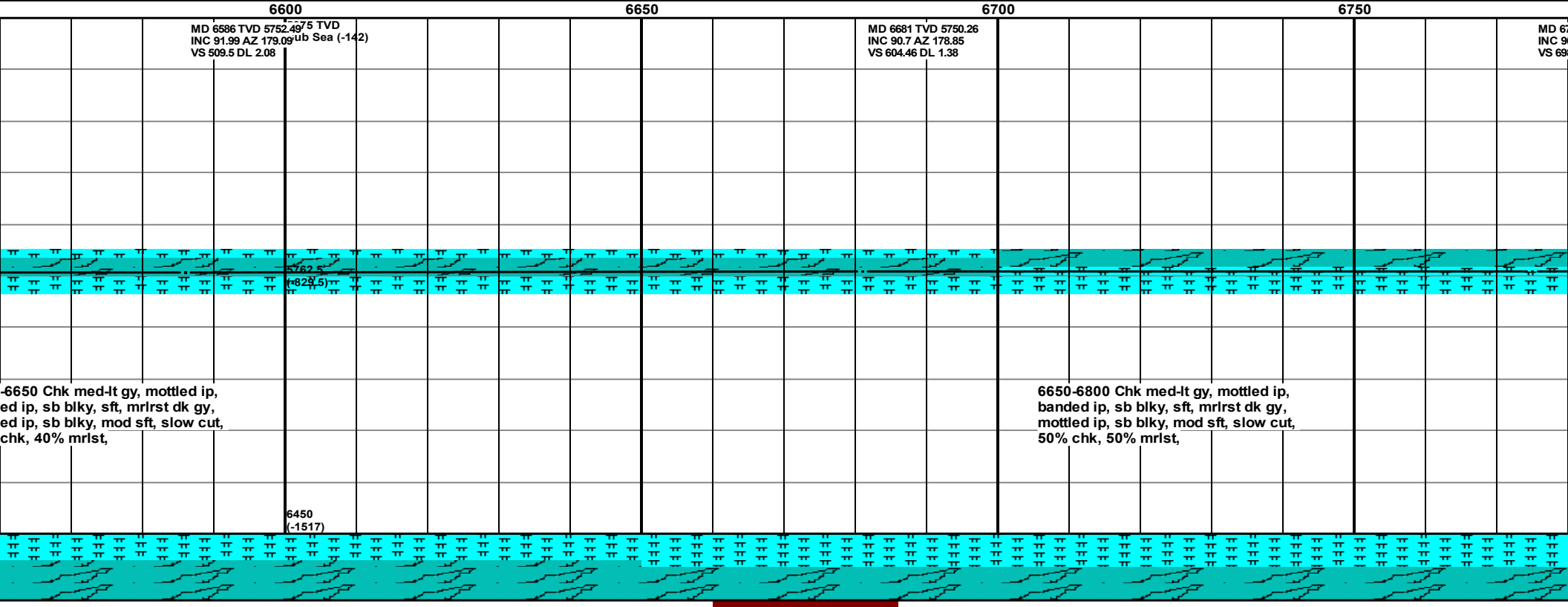
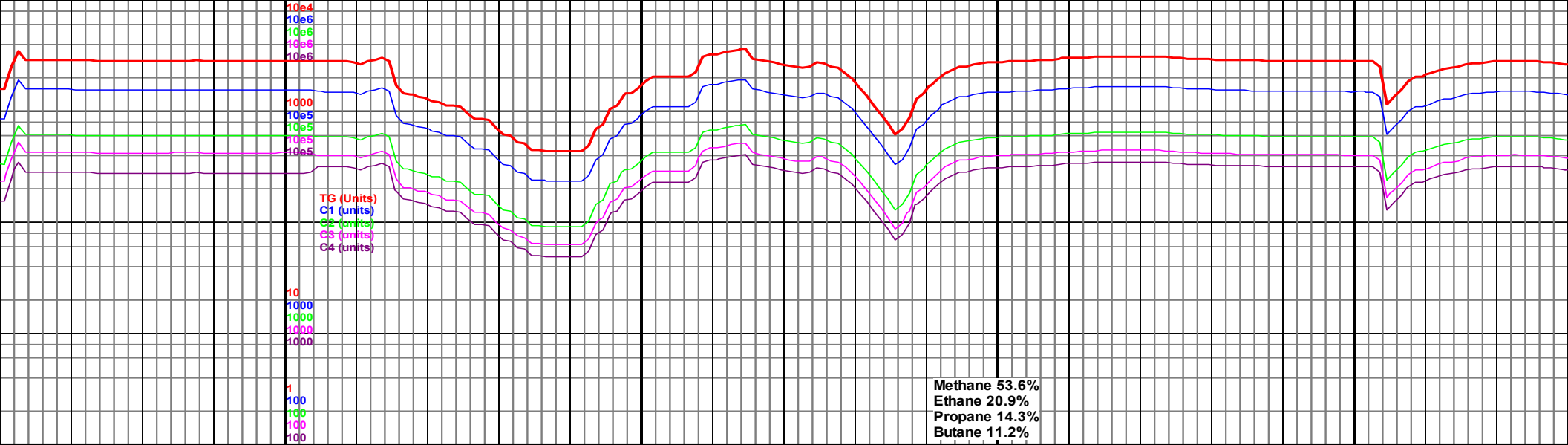


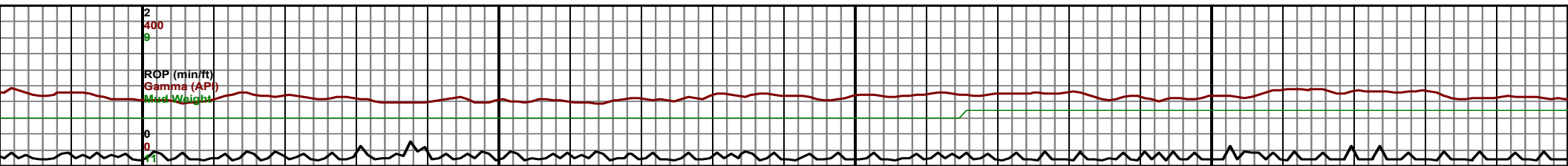
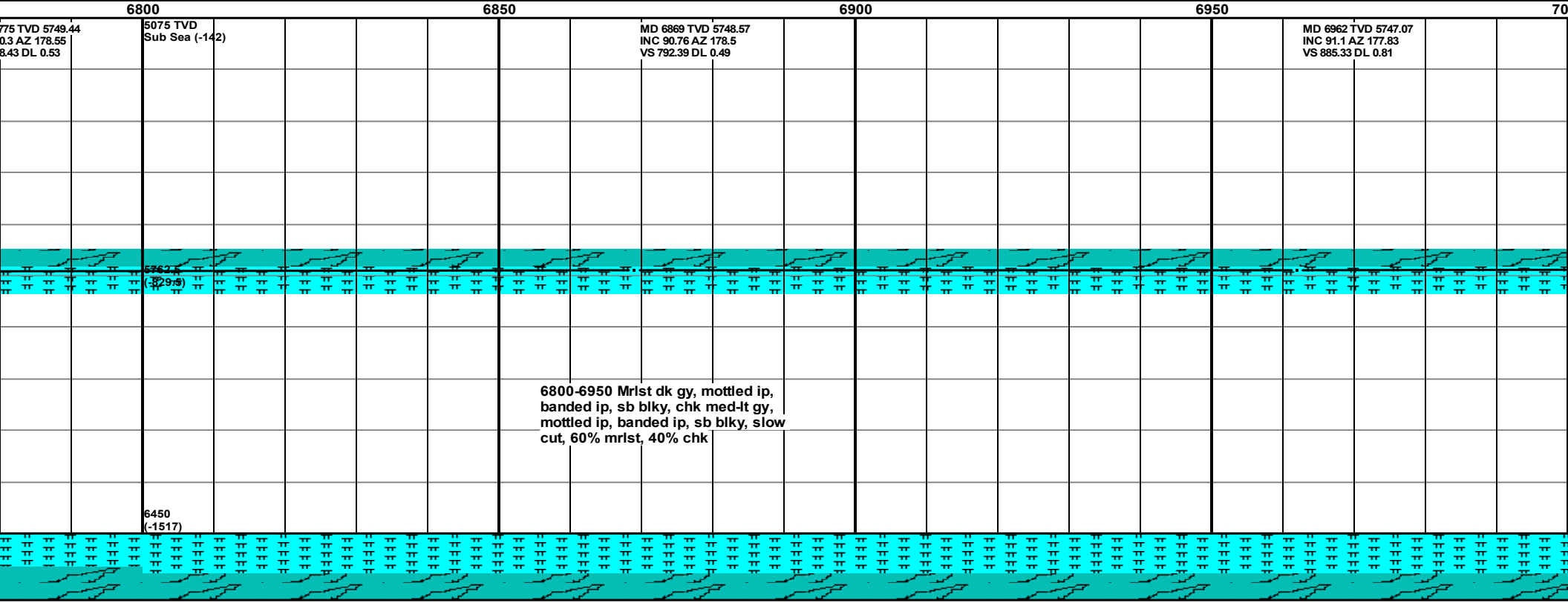
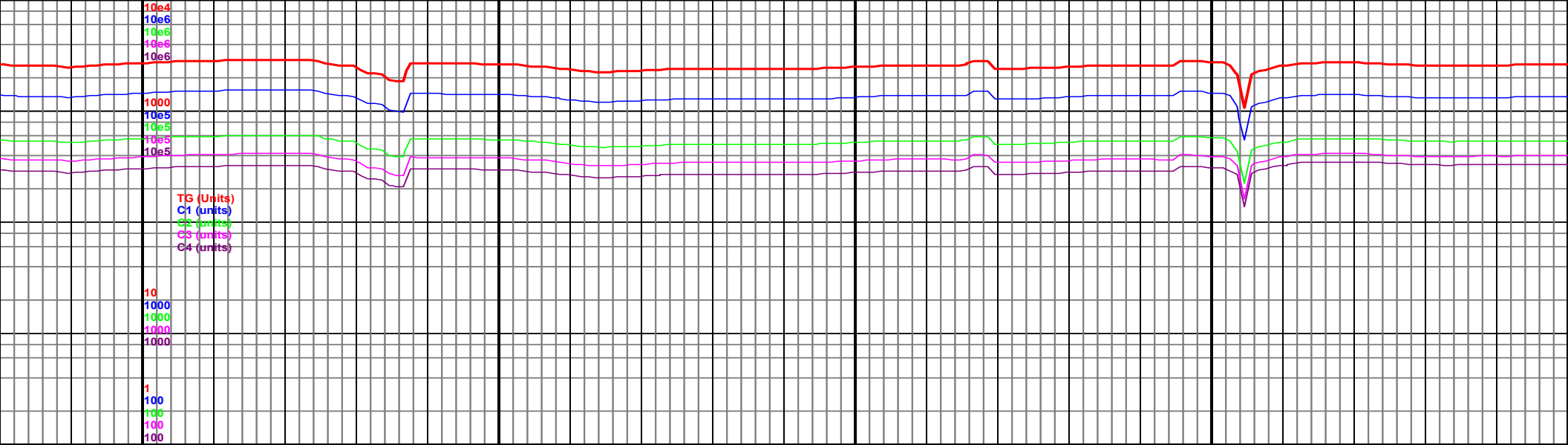


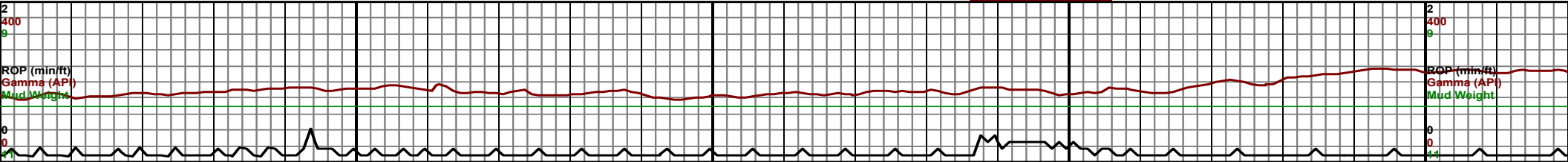
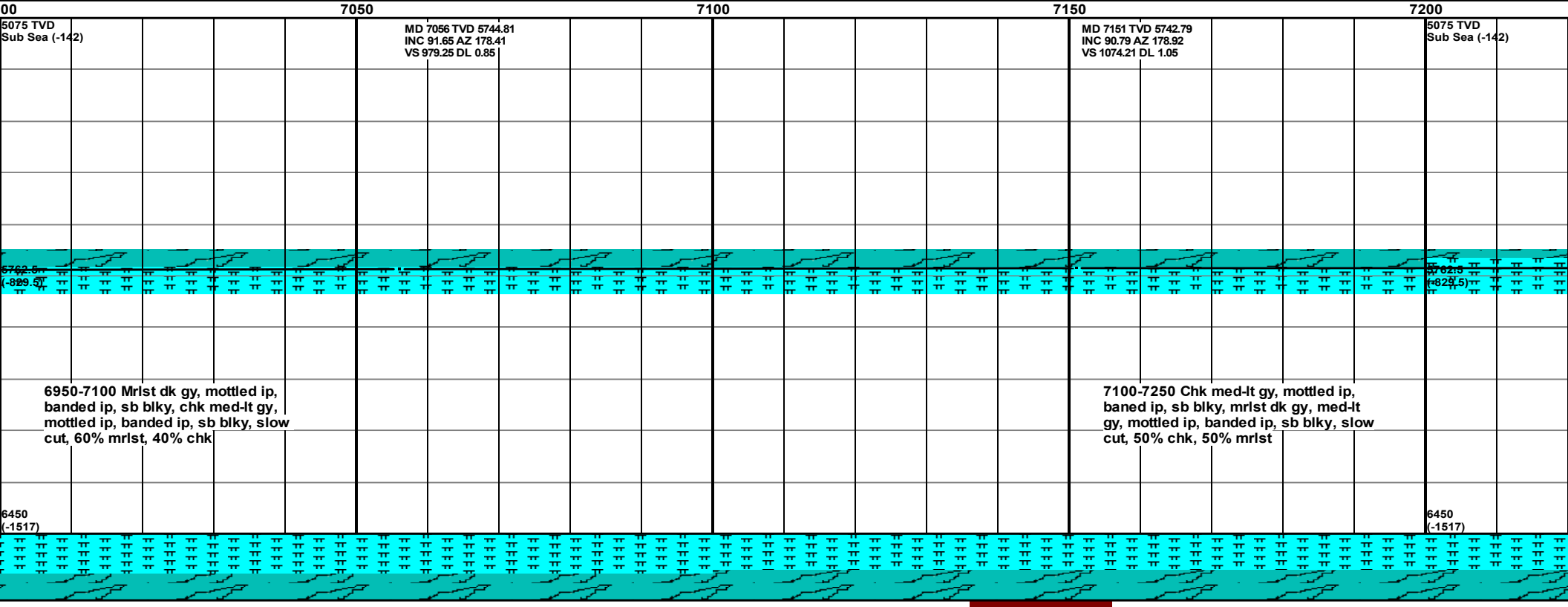
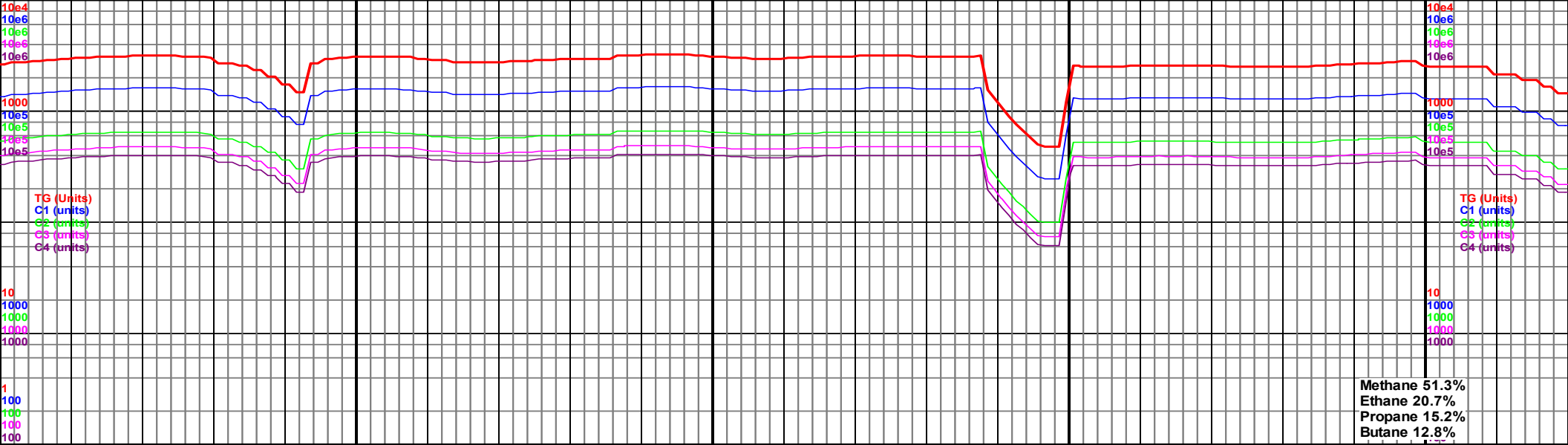
<p>MD 5928 TVD 5736.76 INC 75.31 AZ 179.36 VS -145.69 DL 14.09</p> <p>N100 5921' MD 5735' TVD</p> <p>5900-5950 Chk med-lt gy, mottled ip, banded ip, sb blk, mrlst dk gy, mottled ip, banded ip, sb blk, tr bent, fast cut, 80% chk, 20% mrlst</p>	<p>MD 5975 TVD 5747.21 INC 78.98 AZ 179.4 VS -99.88 DL 7.81</p> <p>5950-6000 Chk med-lt gy, mottled ip, banded ip, sb blk, mrlst dk gy, mottled ip, sb blk, slow cut, 80% chk, 20% mrlst,</p>	<p>MD 6023 TVD 5755.41 INC 81.36 AZ 178.54 VS -52.6 DL 5.26</p> <p>6000-6050 Chk med-lt gy, mottled ip, banded ip, sb blk, sft, mrlst dk gy, mottled ip, sb blk, mod sft, mod cut, 60% chk, 40% mrlst,</p>	<p>Curve landed at 6098' MD at 18:00 on 6/12/2016. TOOH for lower angle motor. Resume drilling at 01:43 on 6/13/2016.</p> <p>6050-6200 Chk med-lt gy, mottled ip, banded ip, sb blk, sft, mrlst dk gy, mottled ip, sb blk, mod sft, mod cut, 95% chk, 5% mrlst,</p>	<p>MD 6023 TVD 5755.41 INC 81.36 AZ 178.54 VS -52.6 DL 5.26</p>
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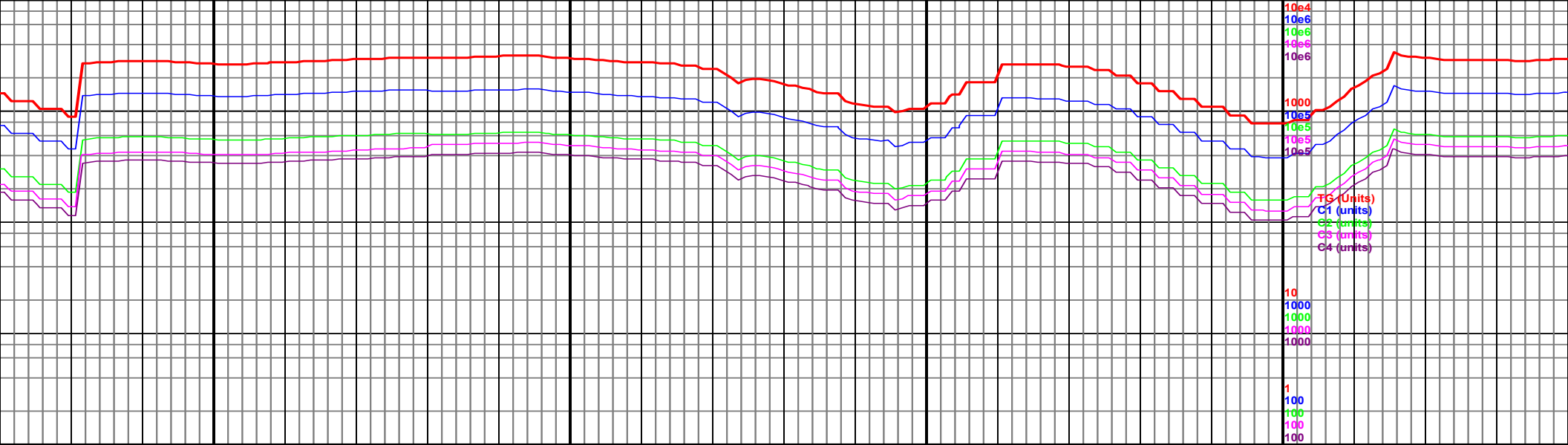












7250

MD 7245 TVD 5740.93
INC 91.47 AZ 179.63
VS 1168.18 DL 1.05

7300

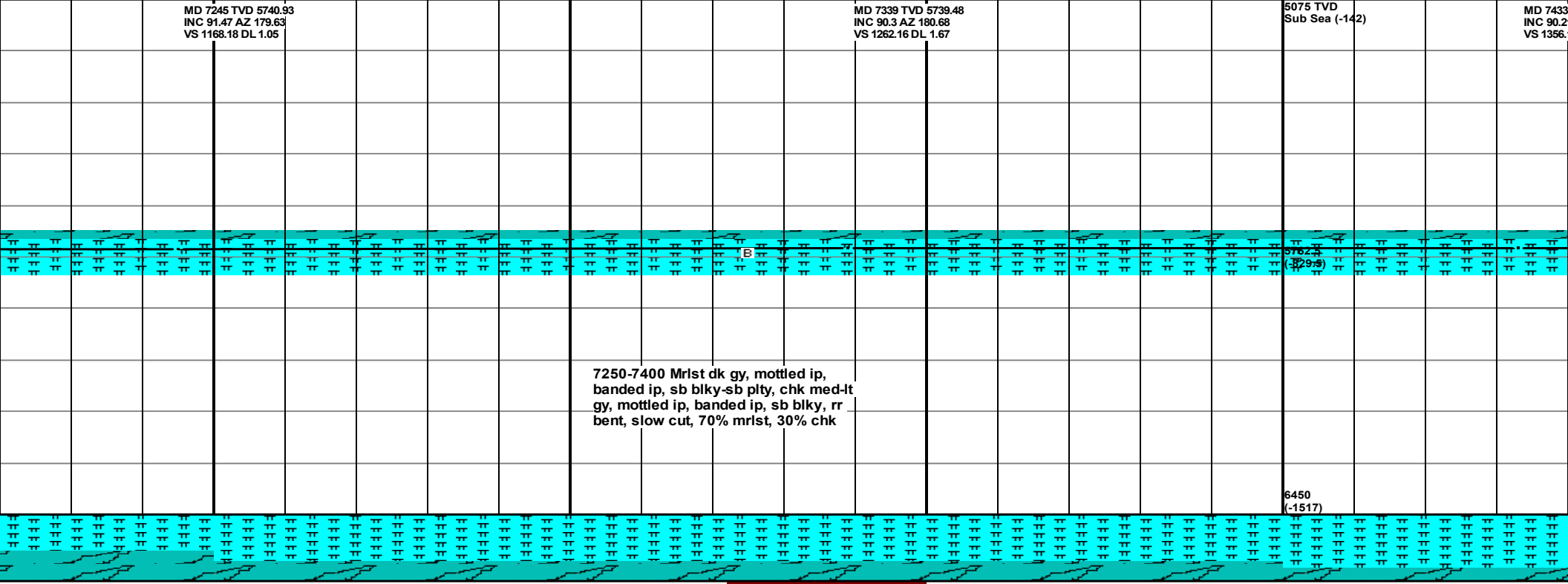
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INC 90.3 AZ 180.68
VS 1262.16 DL 1.67

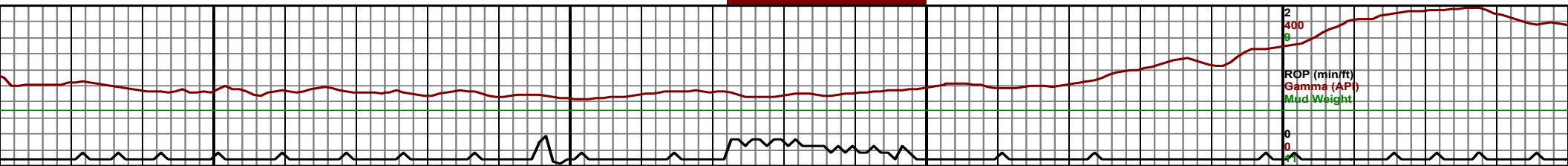
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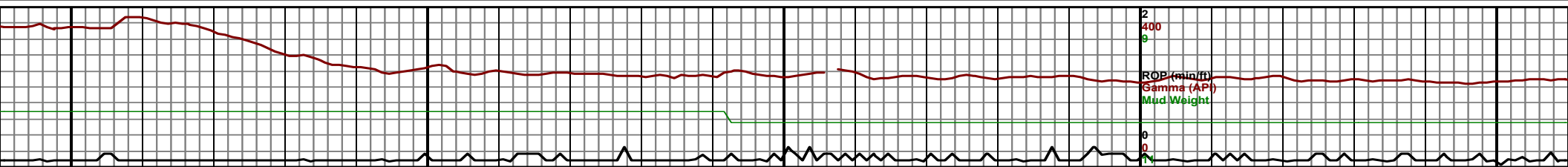
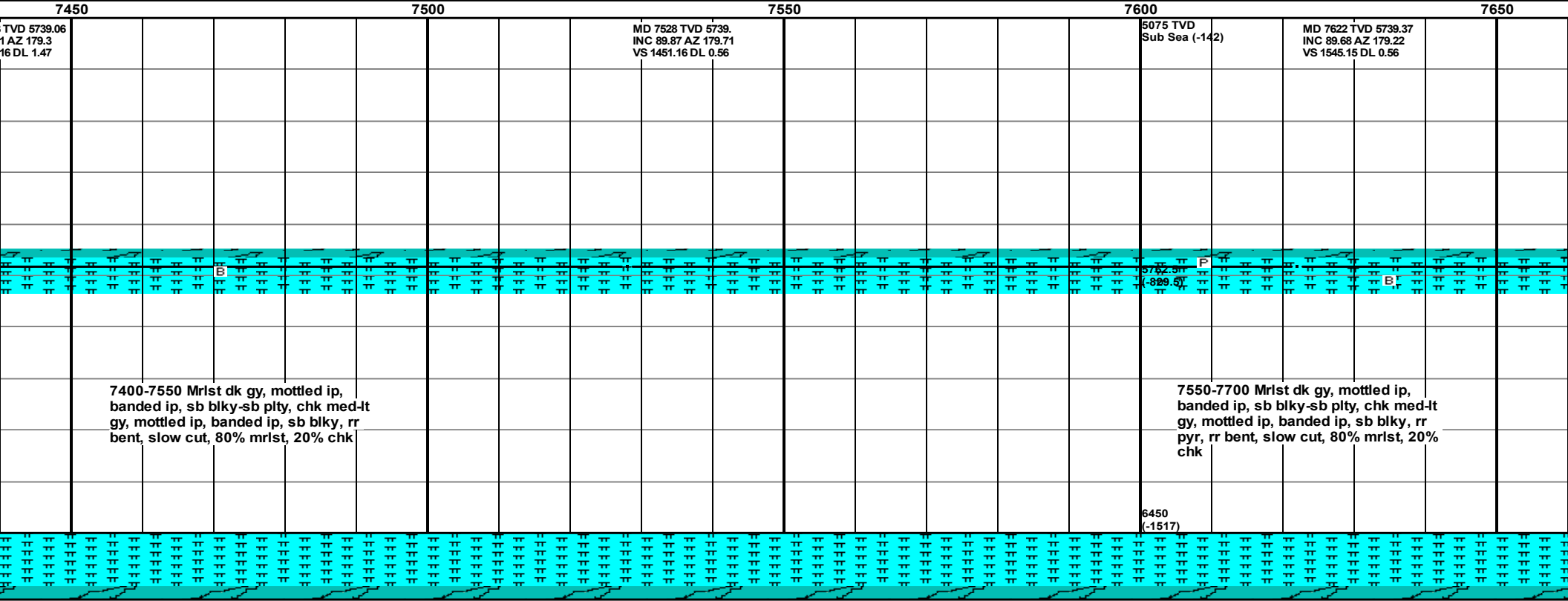
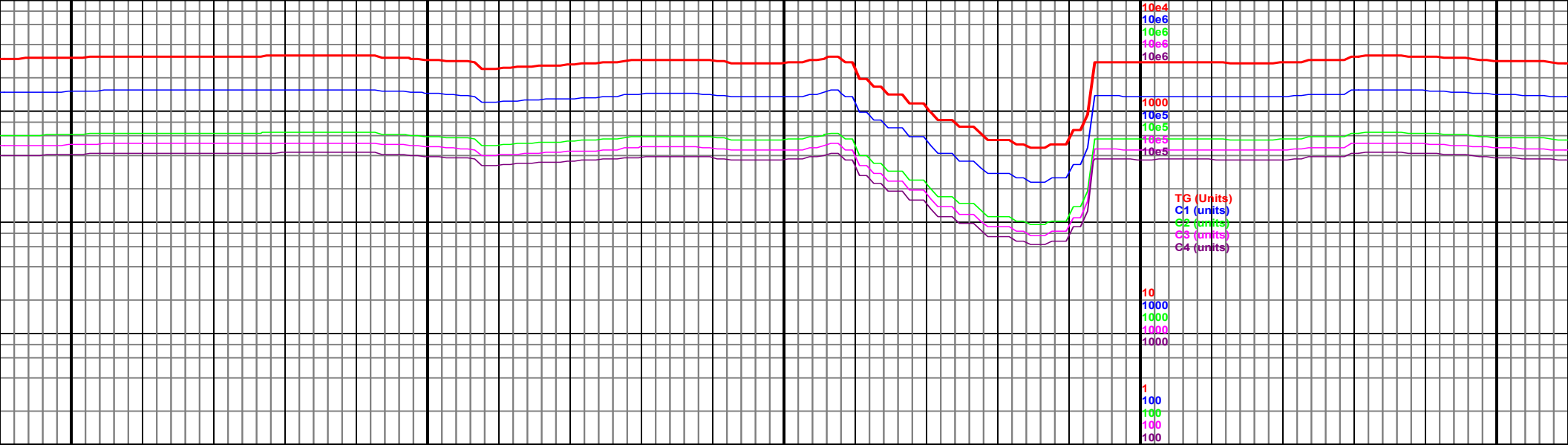
5075 TVD
Sub Sea (-142)

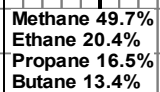
MD 7433
INC 90.2
VS 1356.



6450
(-1517)







7750

7800

7850

MD 7716 TVD 5740.09
INC 89.44 AZ 178.97
VS 1639.14 DL 0.37

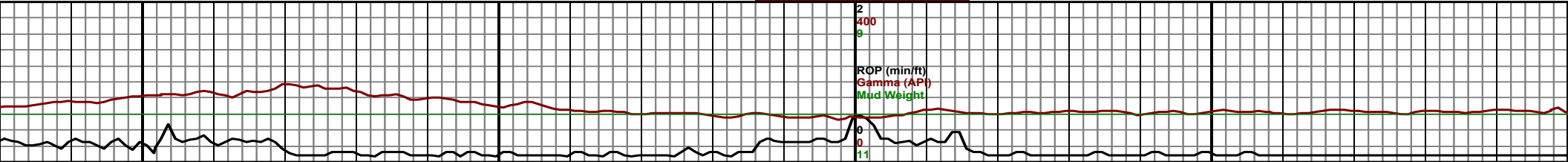
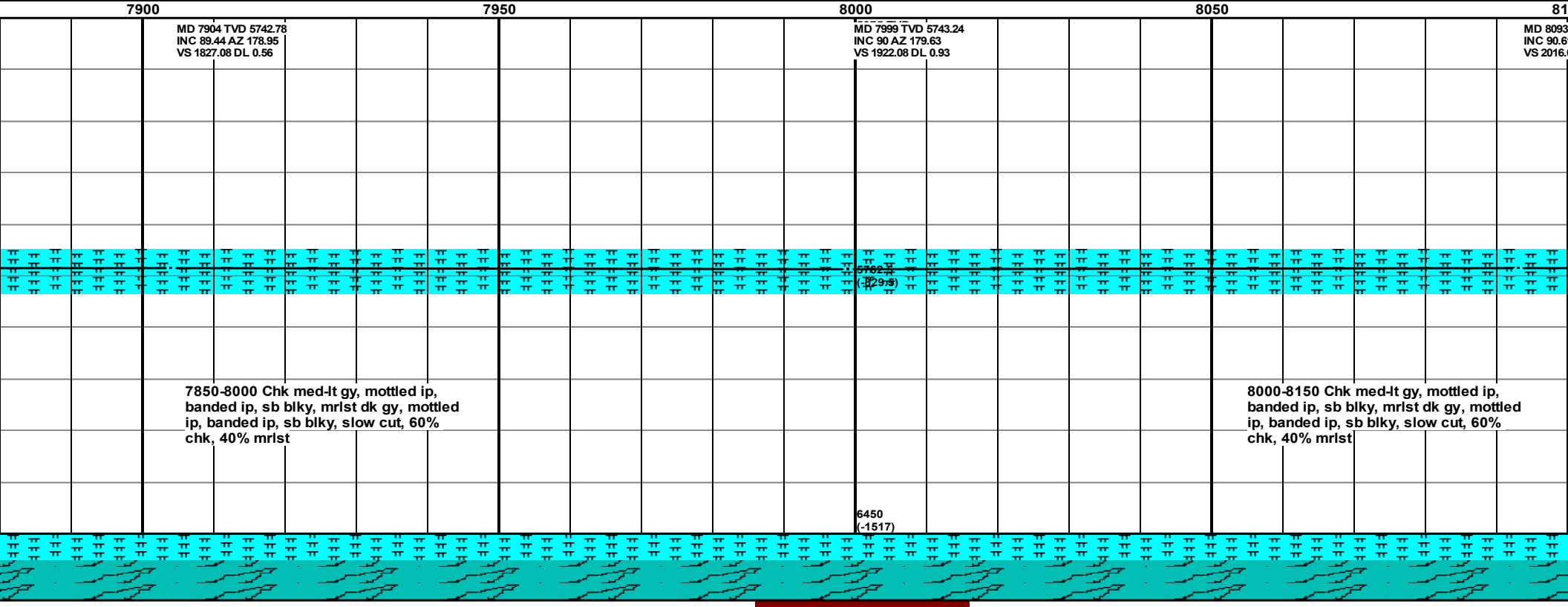
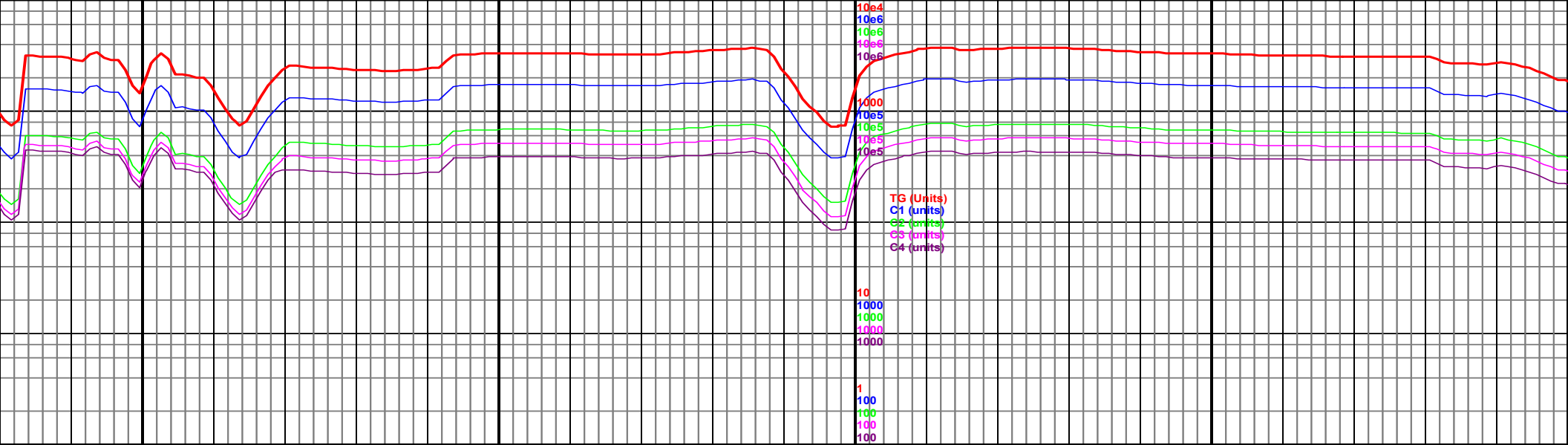
5075 TVD	
Sub Sea (-142	

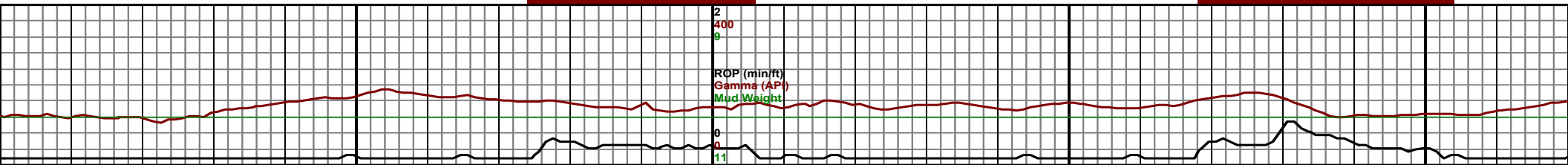
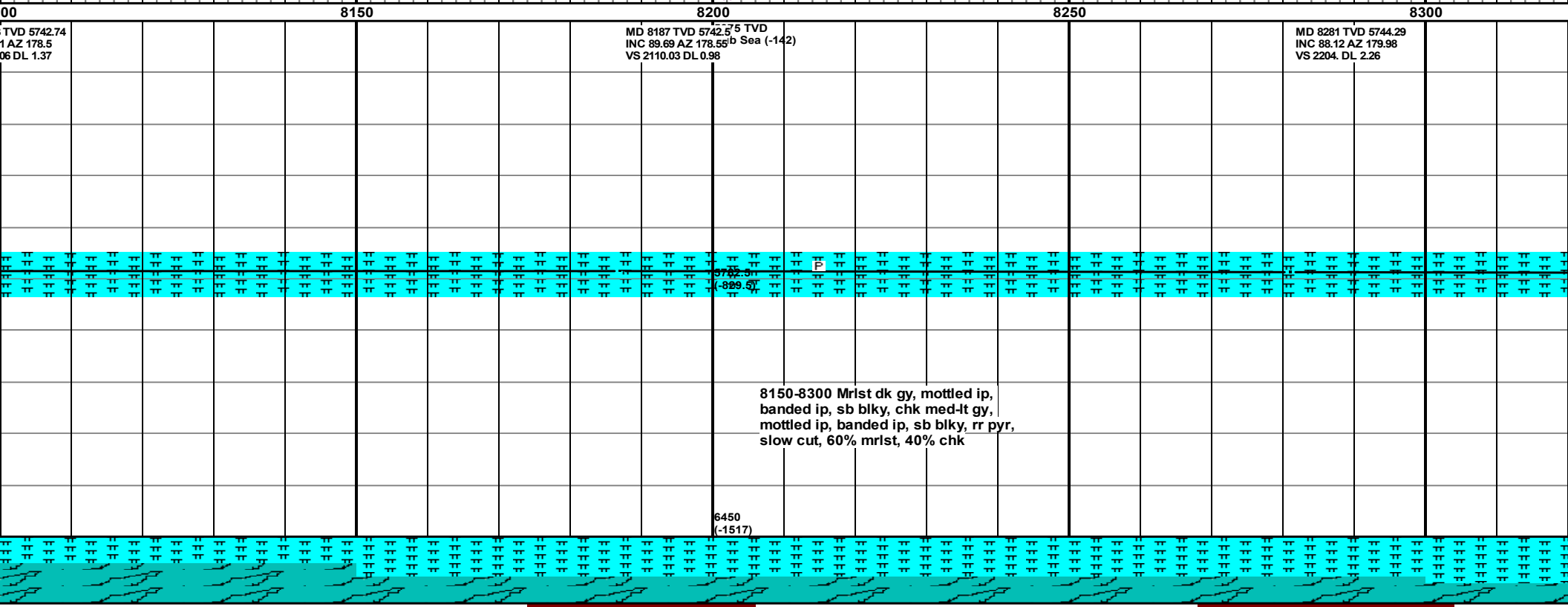
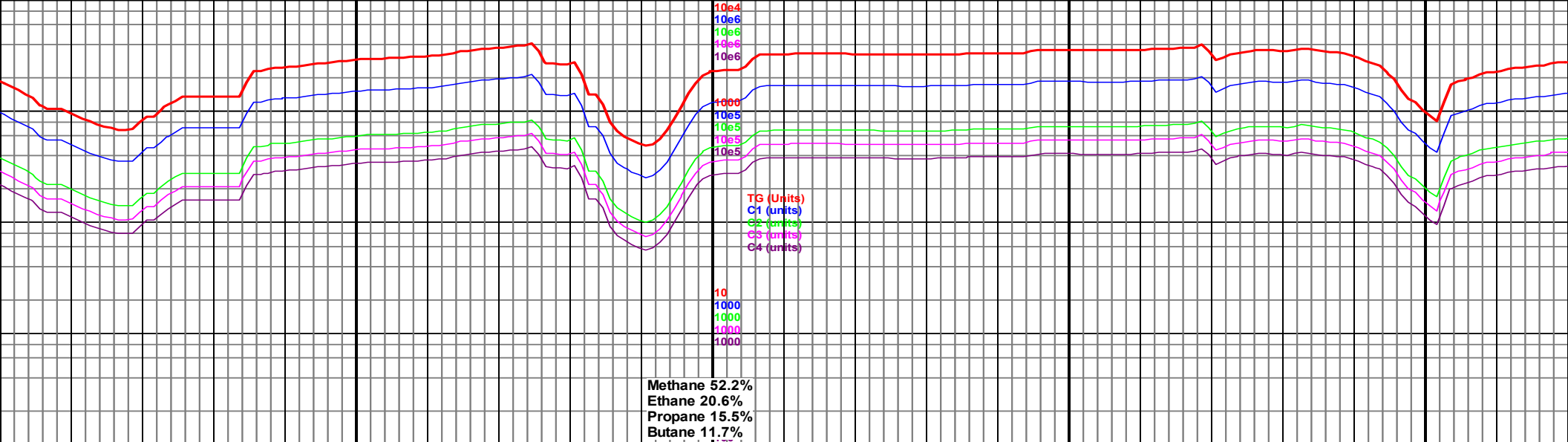
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VS 1734.11 DL 0.55

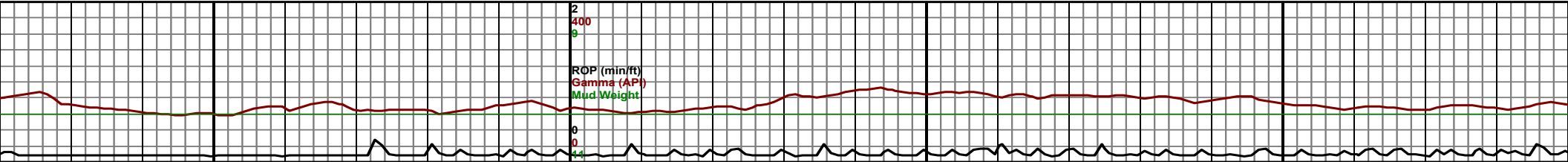
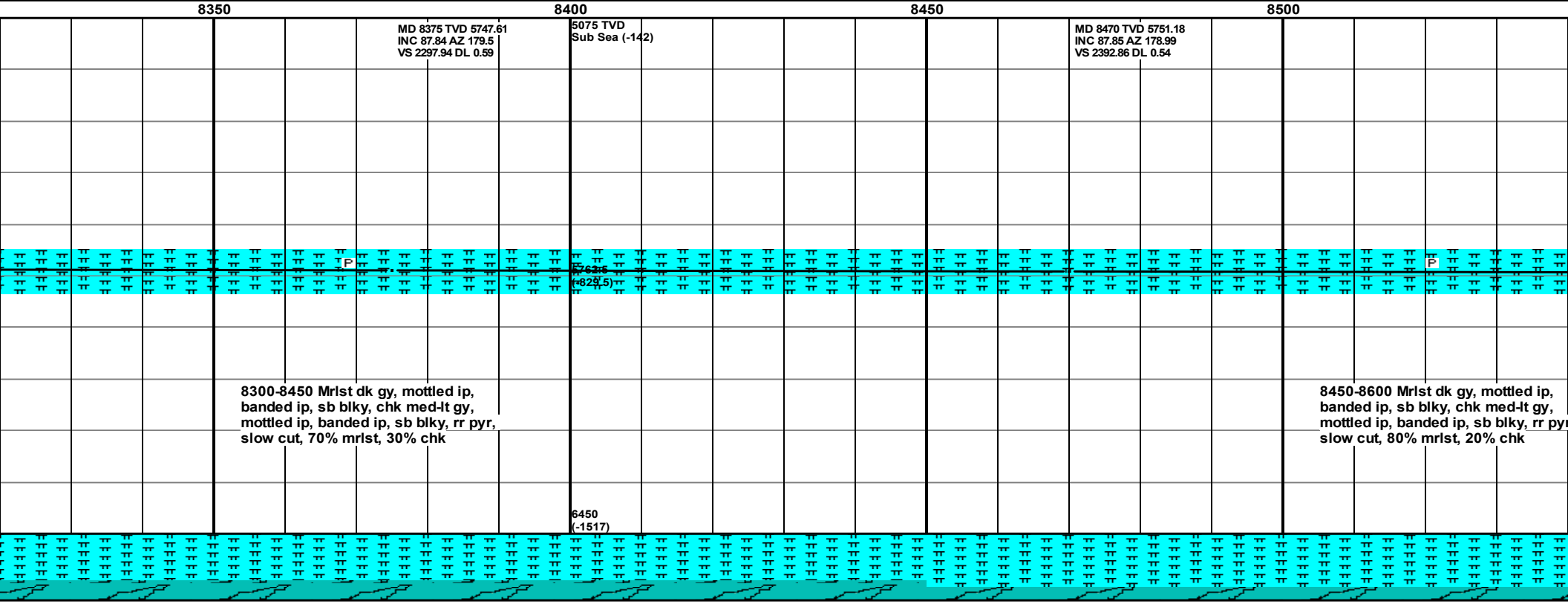
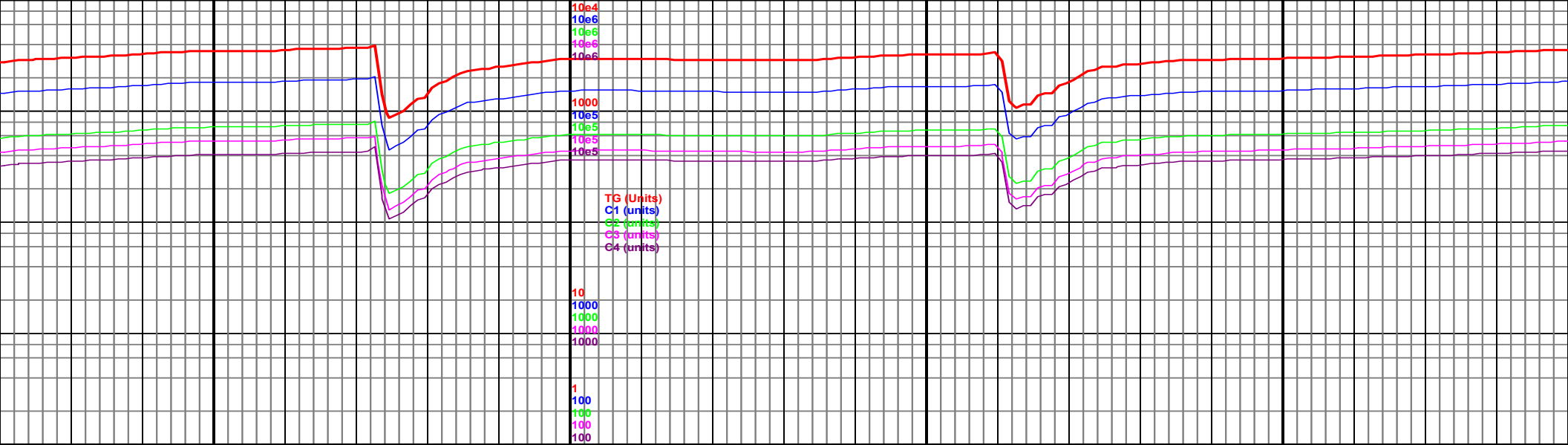
7700-7850	Mrlist dk gy, mottled ip, banded ip, sb blkgy-sb plty, chk med-lt gy, mottled ip, banded ip, sb blkgy, slow cut, 60% mrlist, 40% chk
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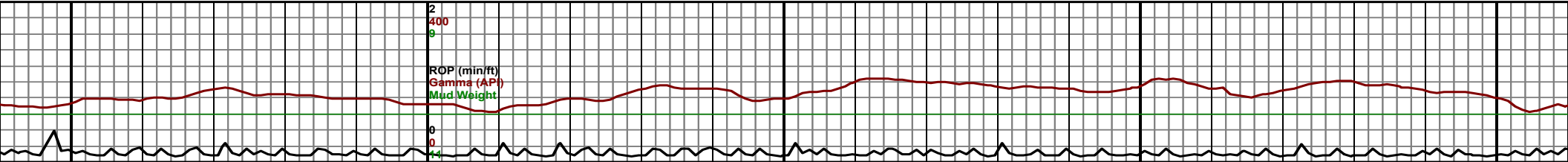
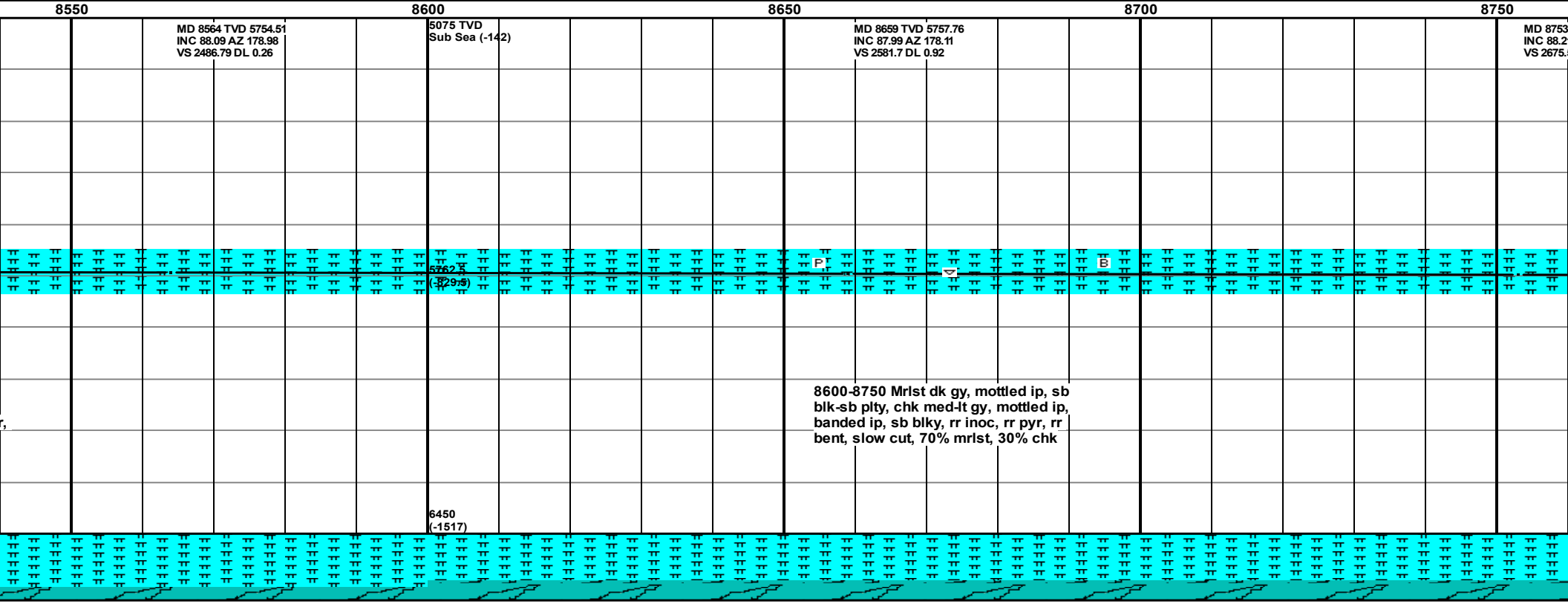
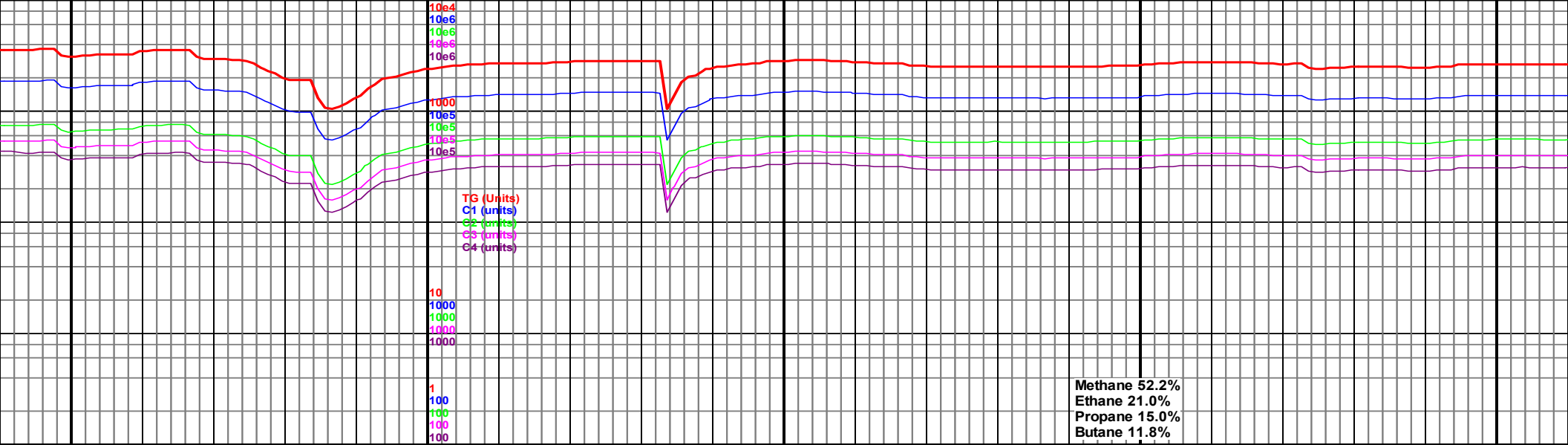
6450
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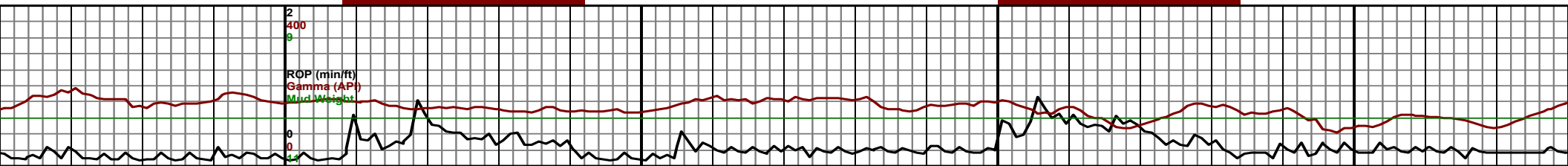
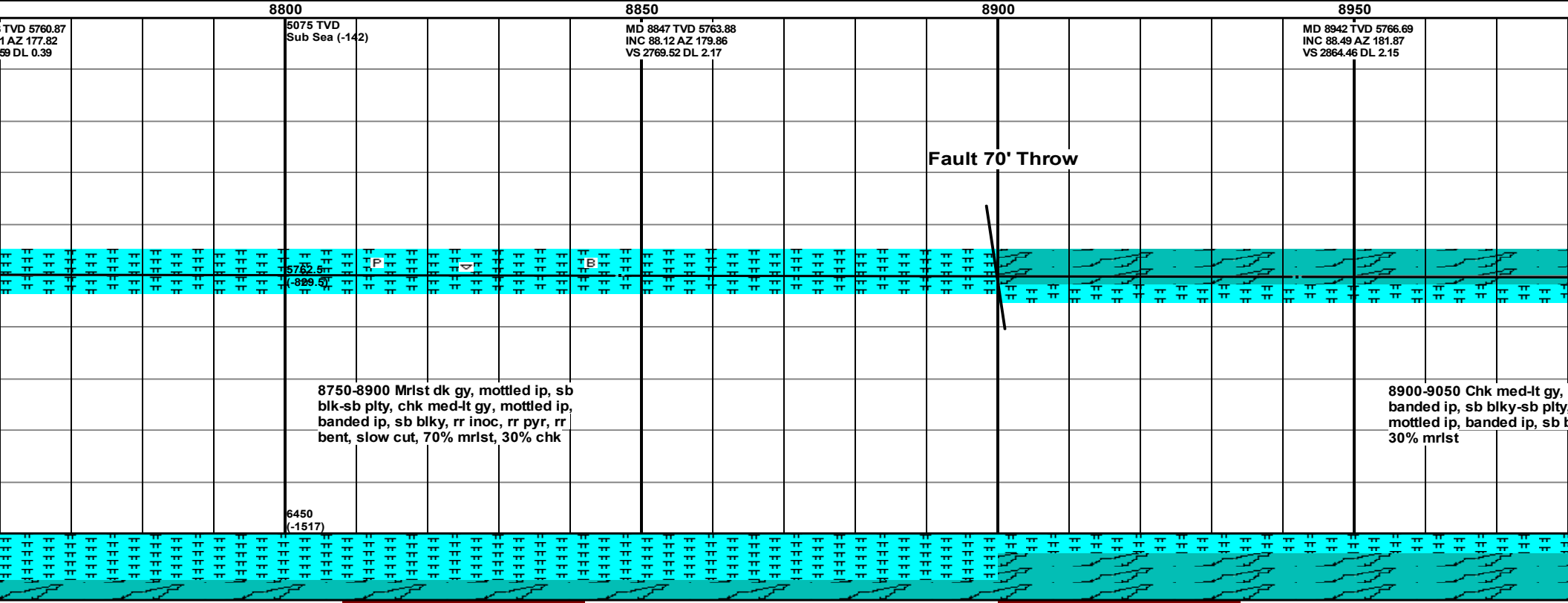
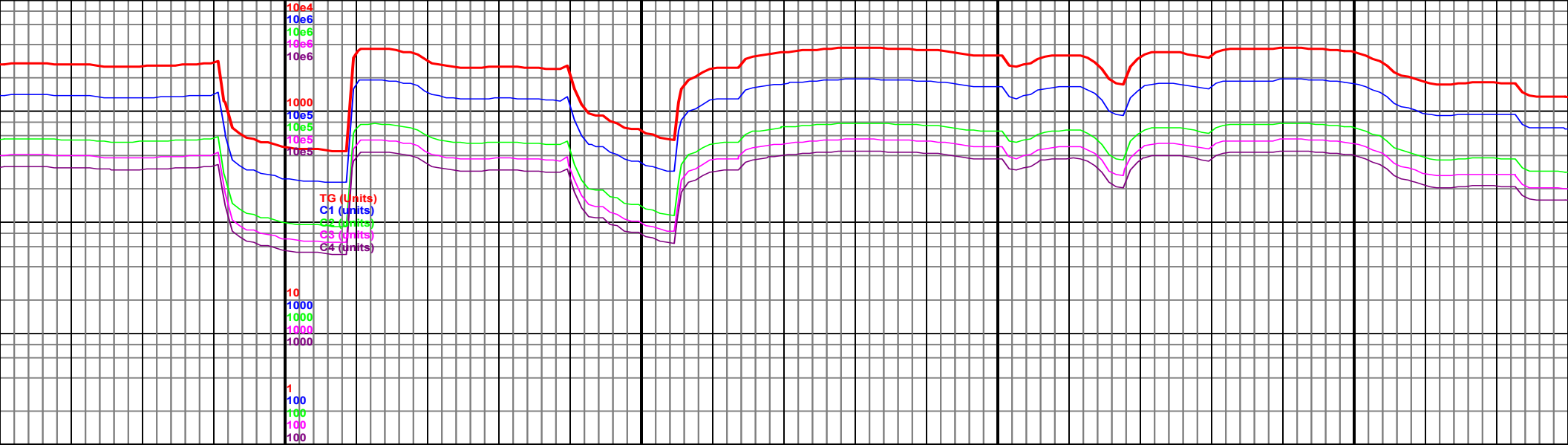


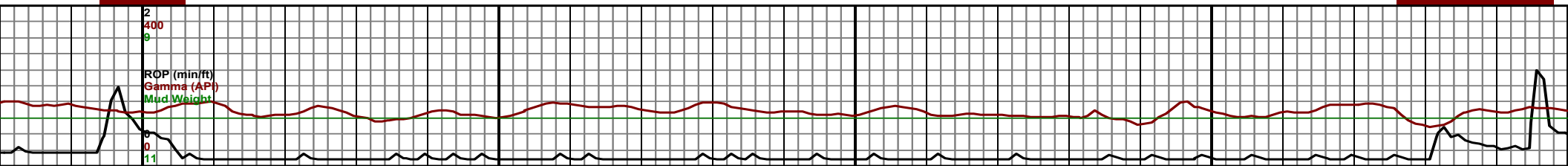
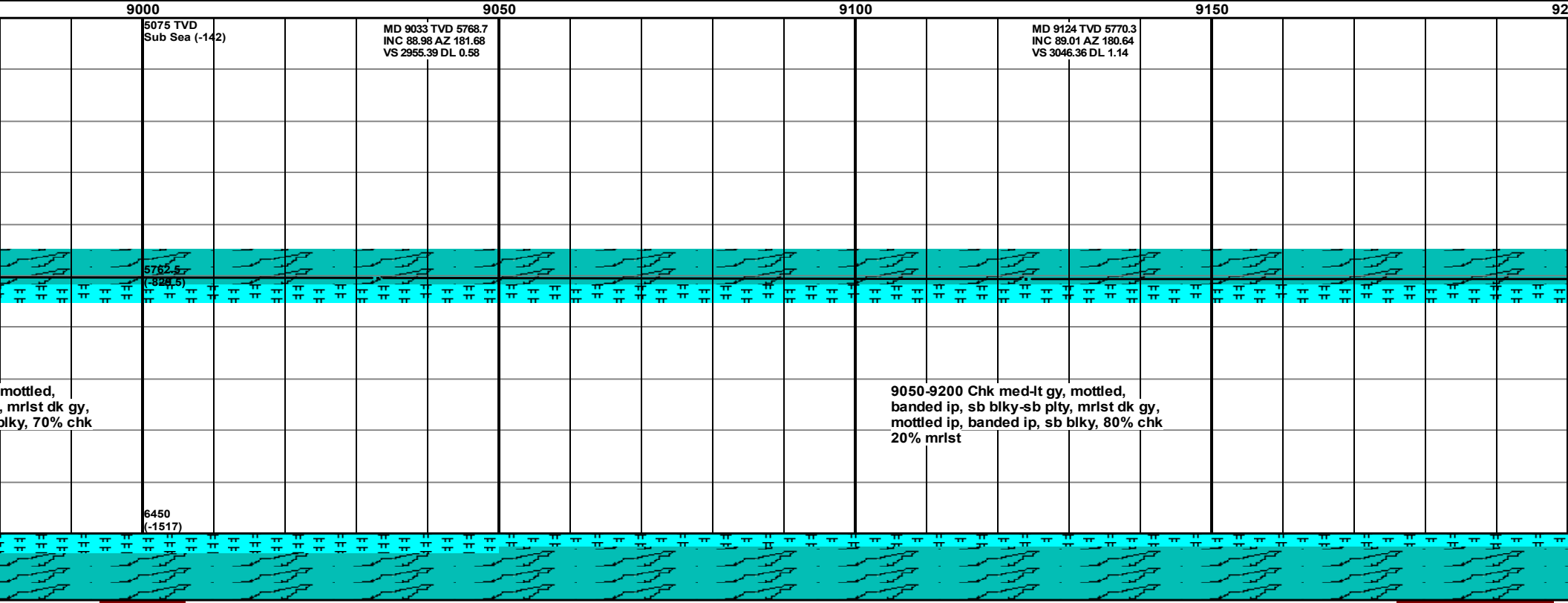
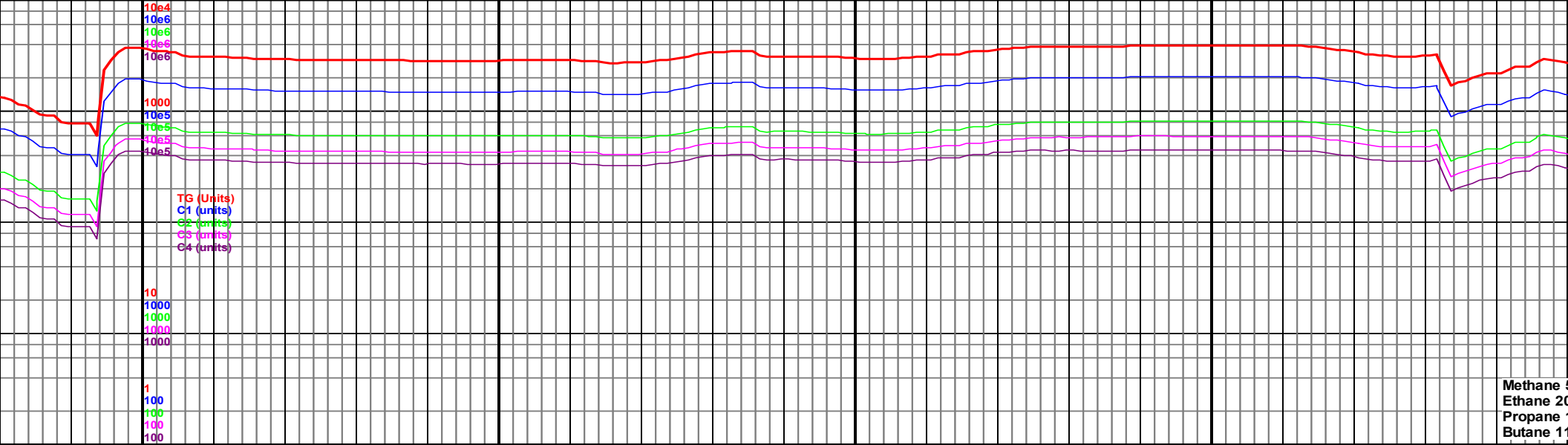


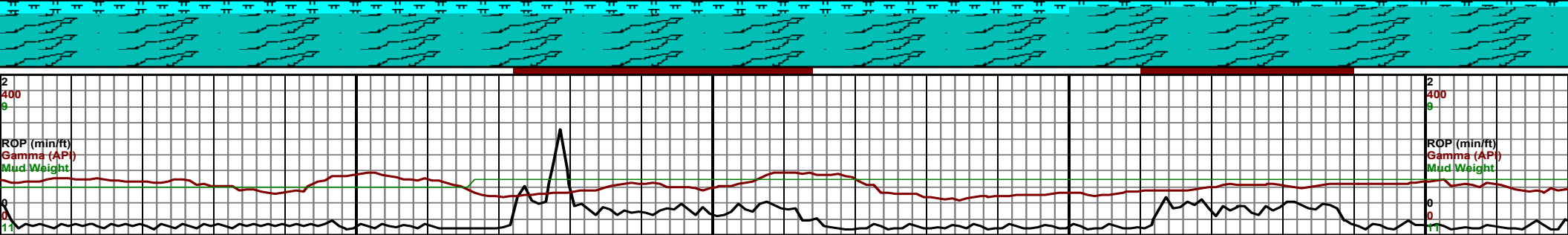
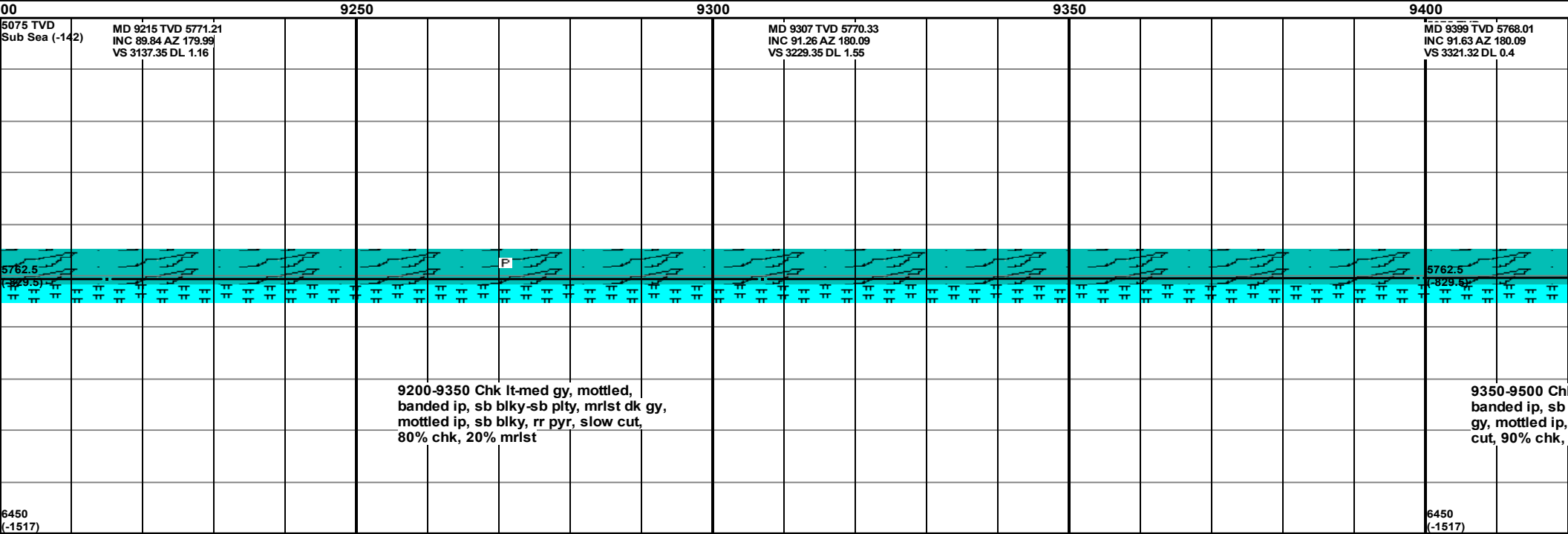
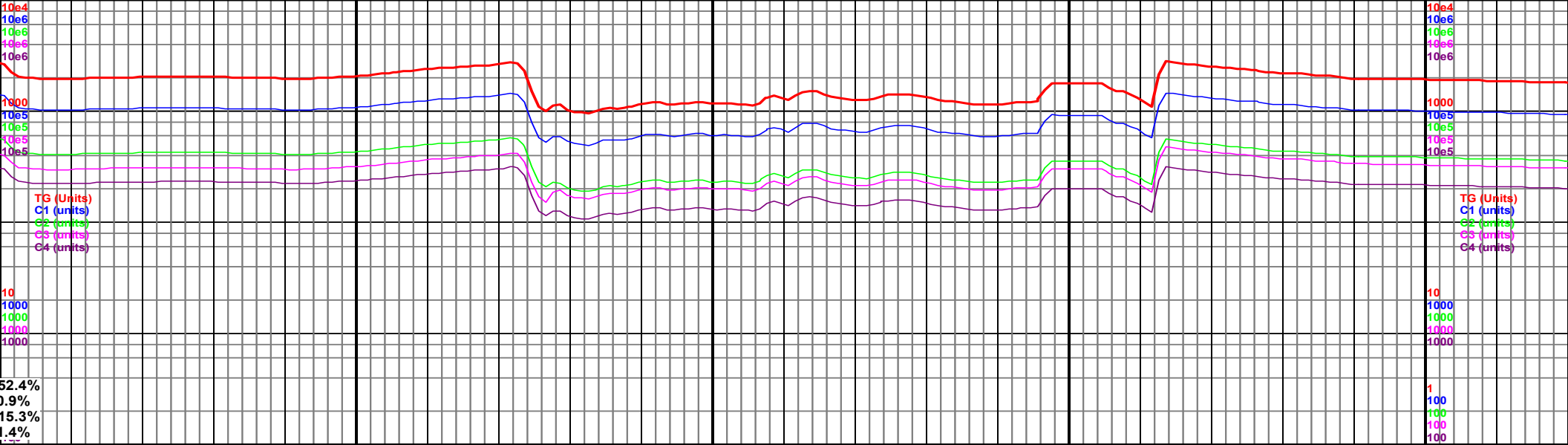


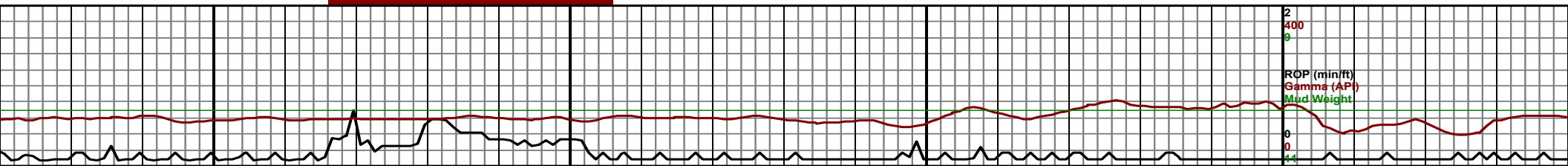
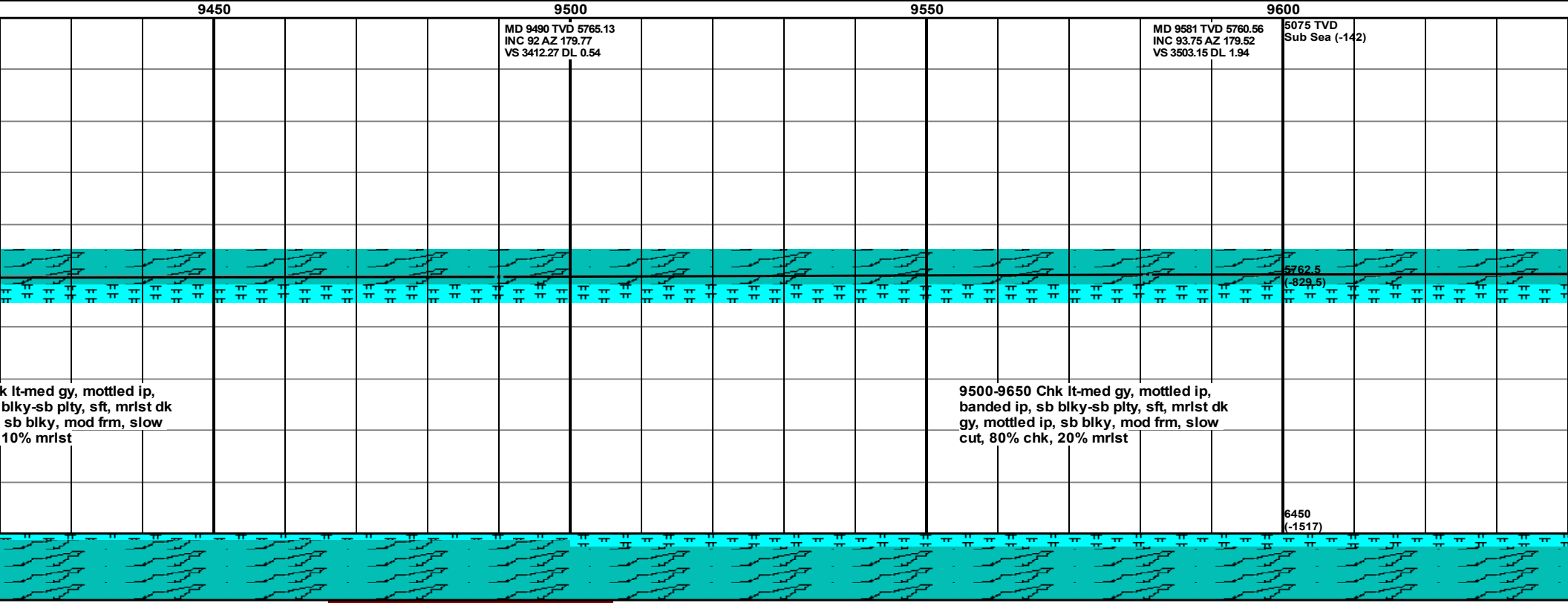
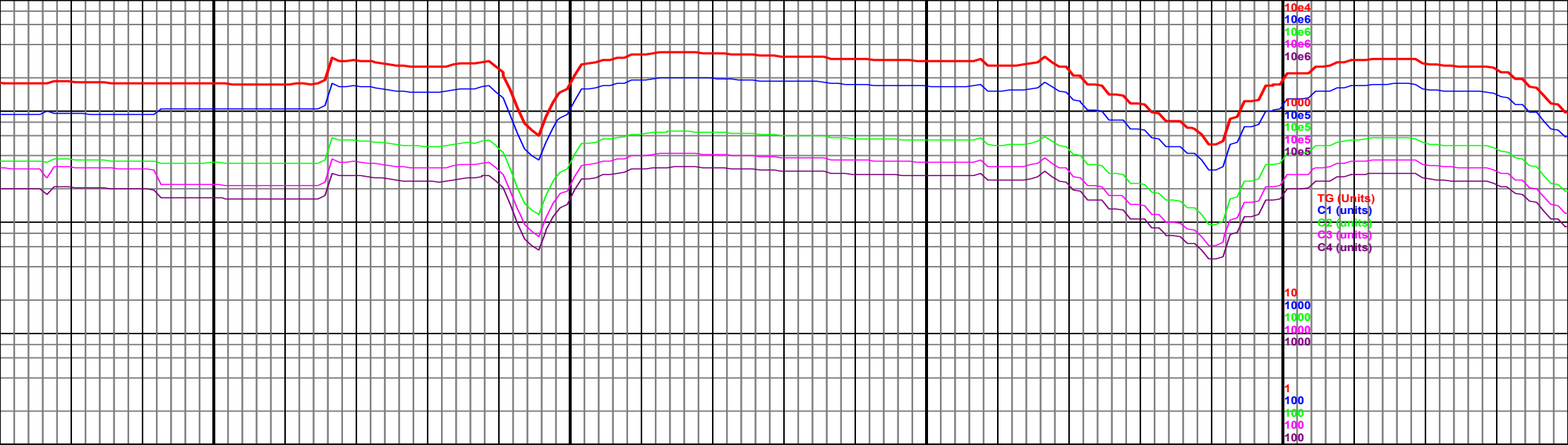


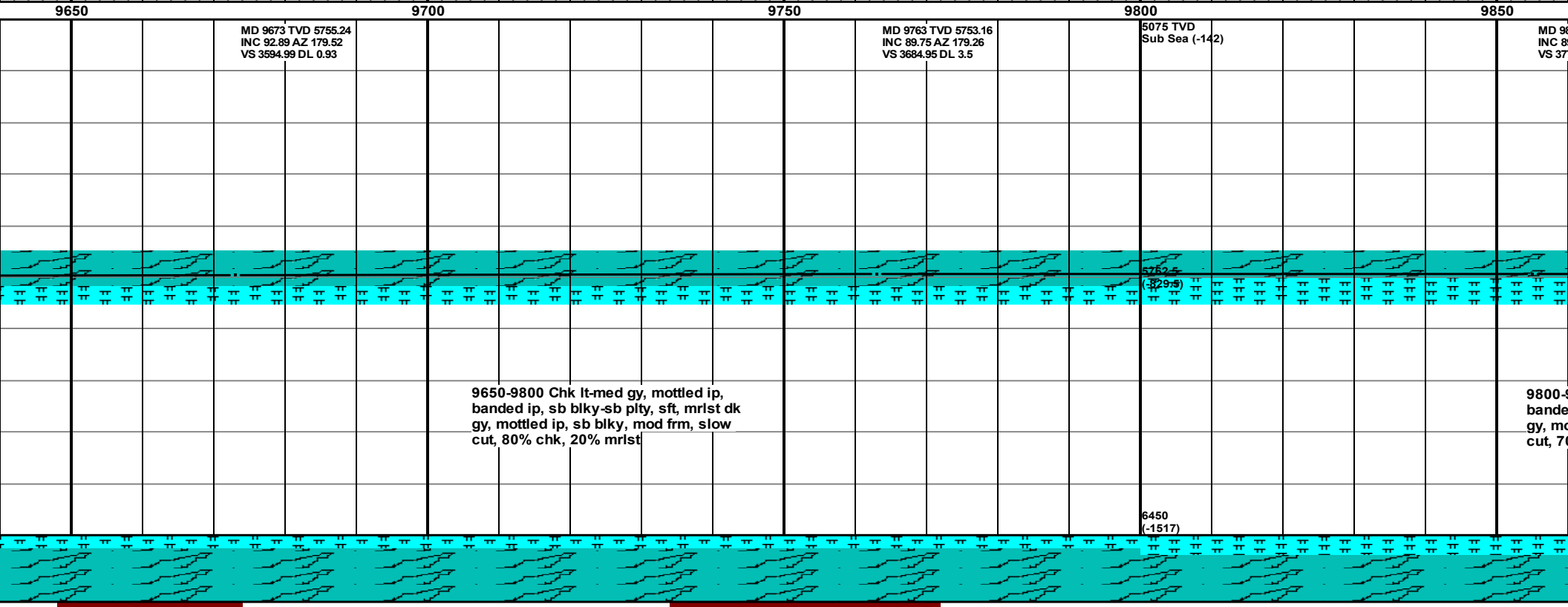


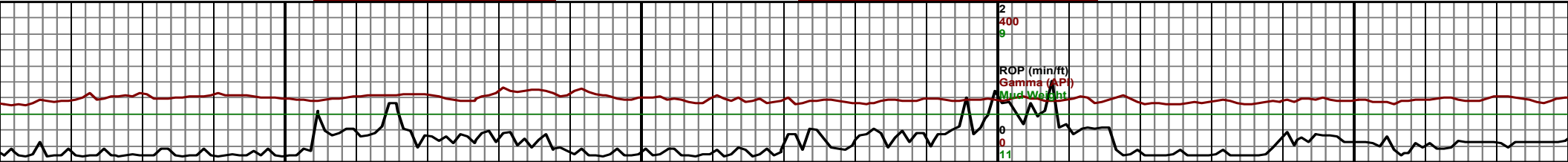
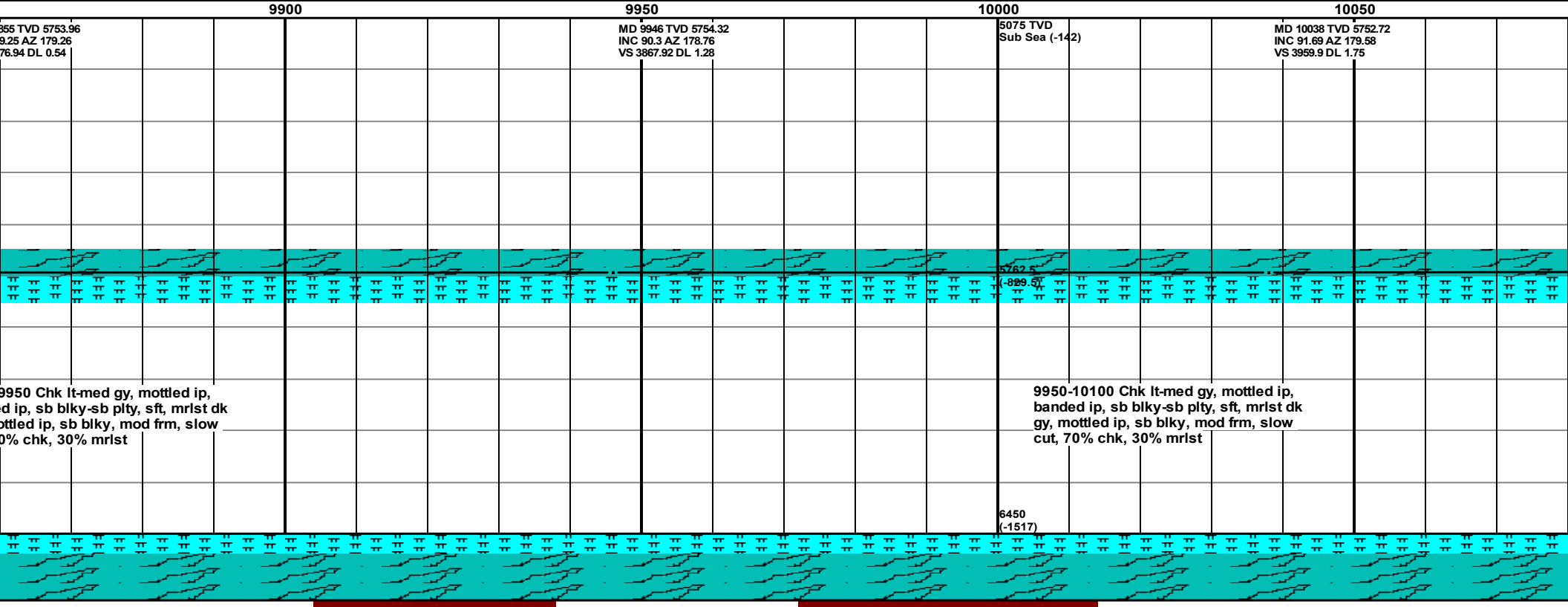
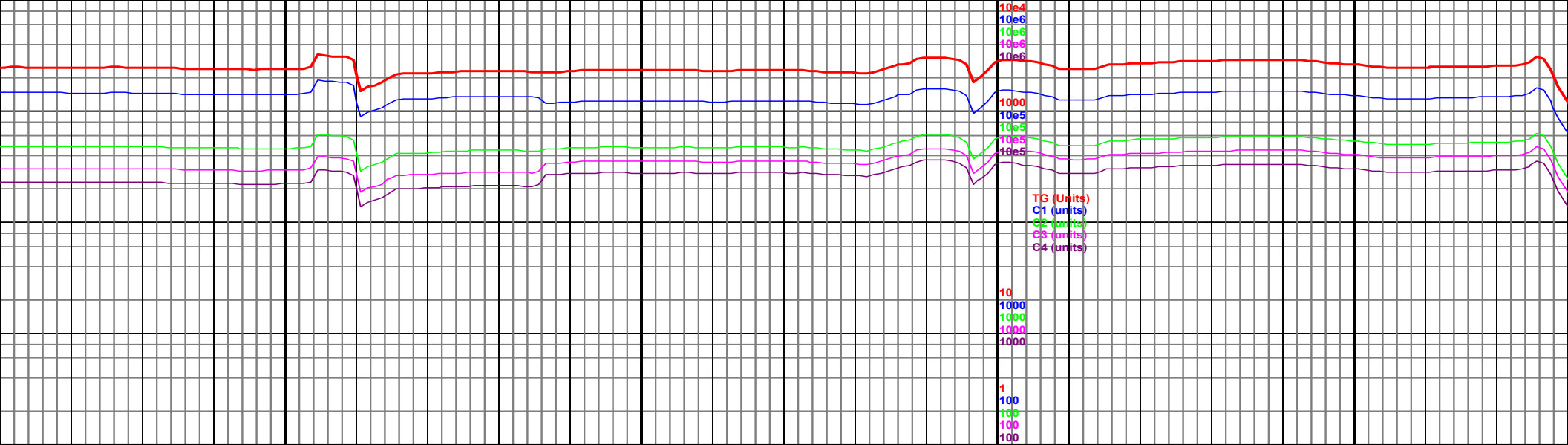


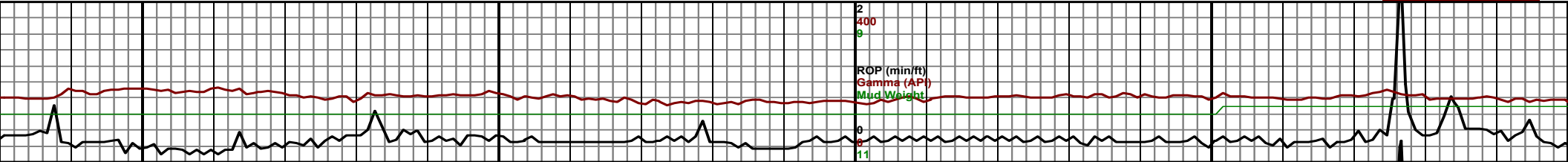
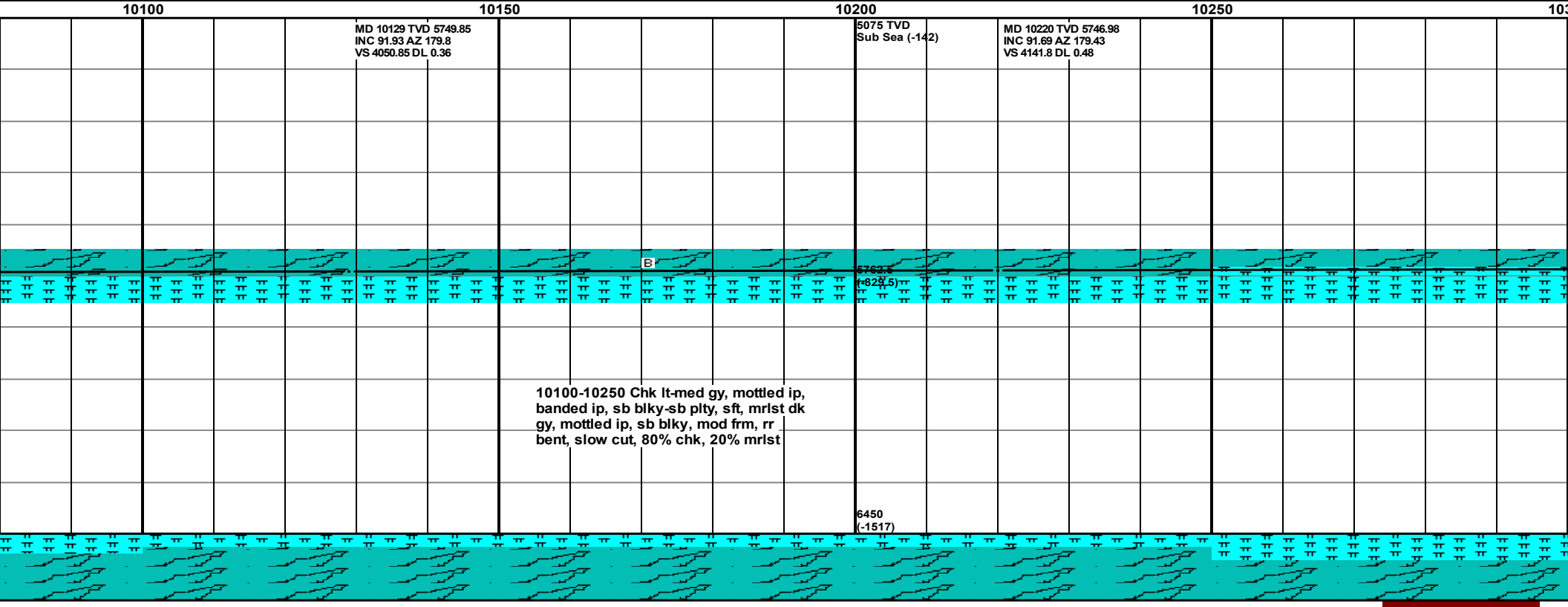
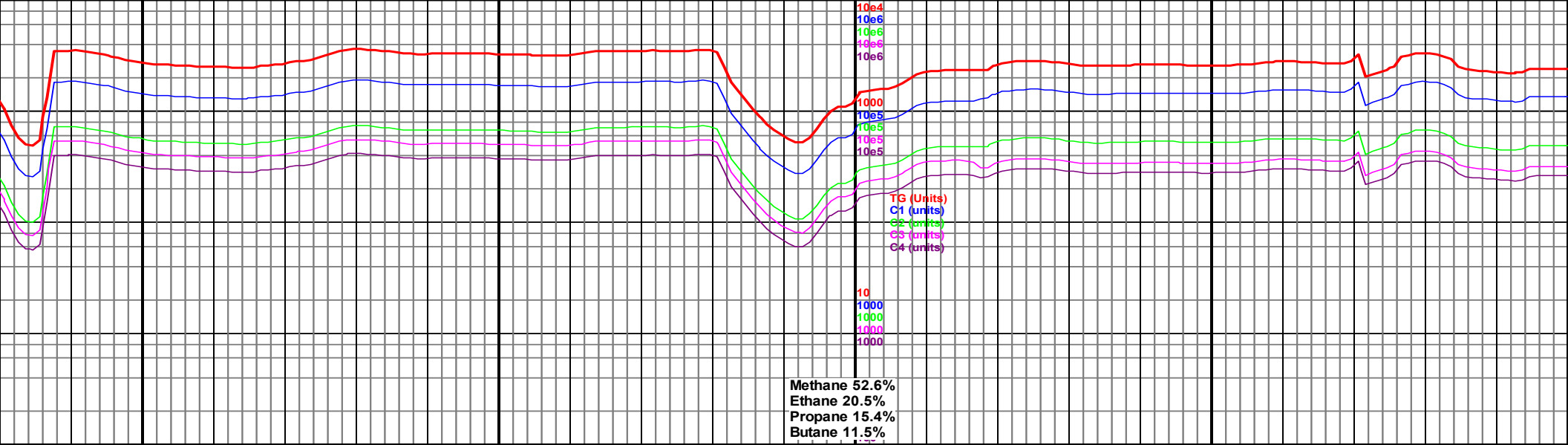


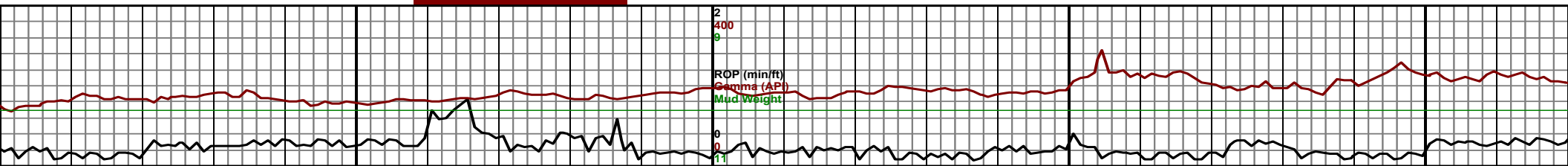
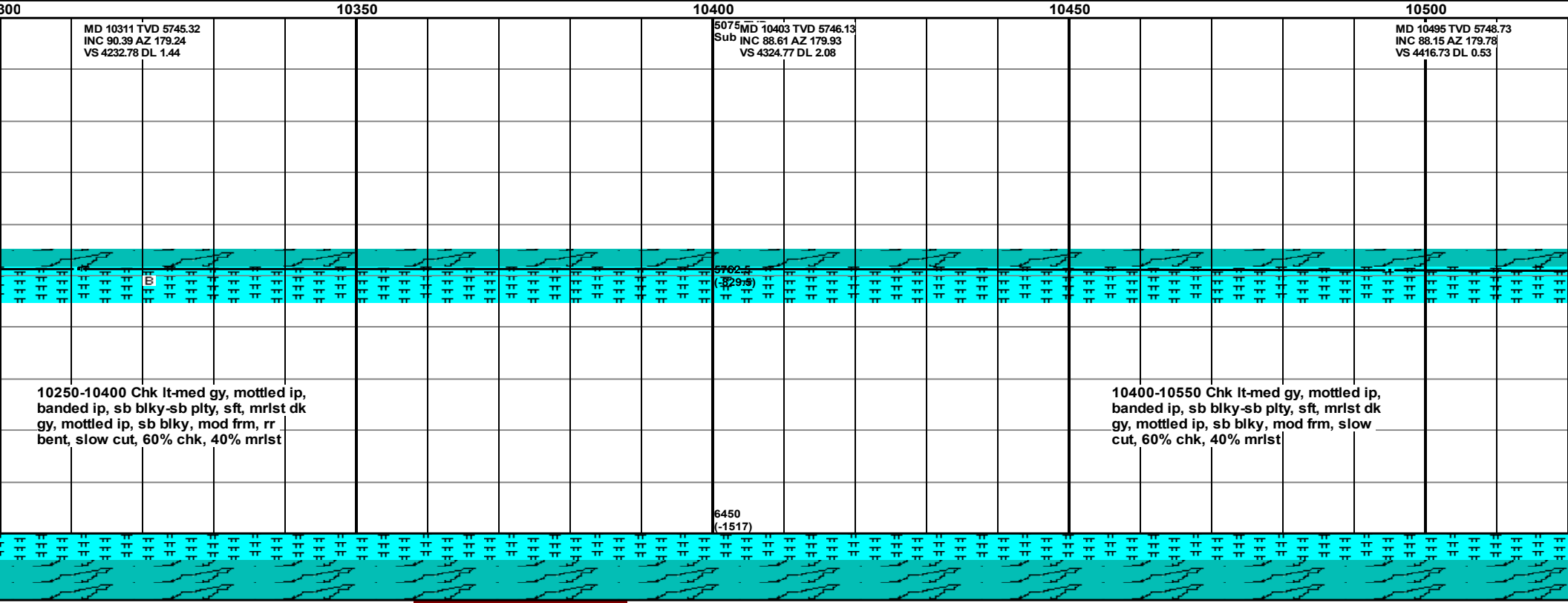
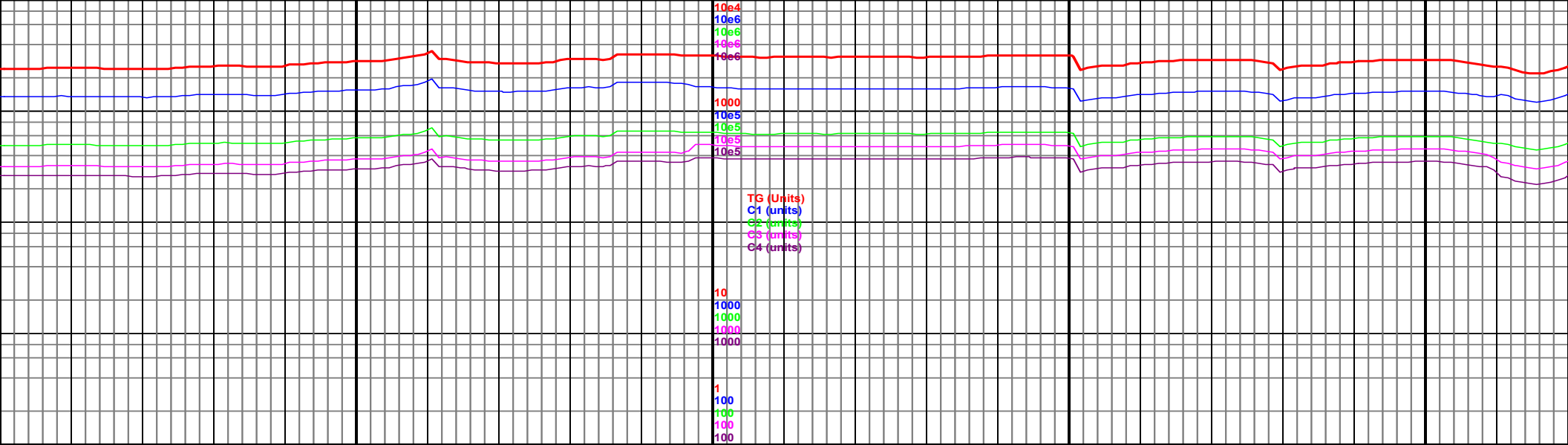


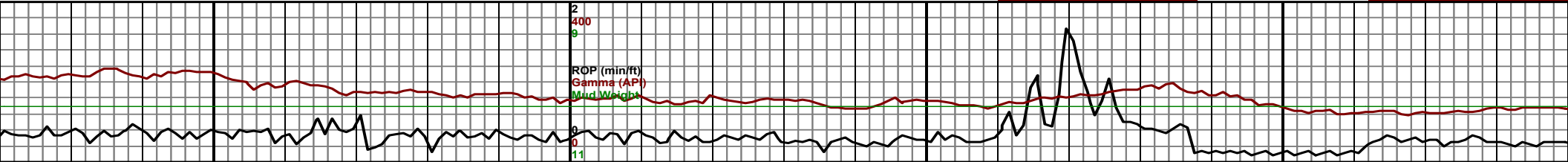
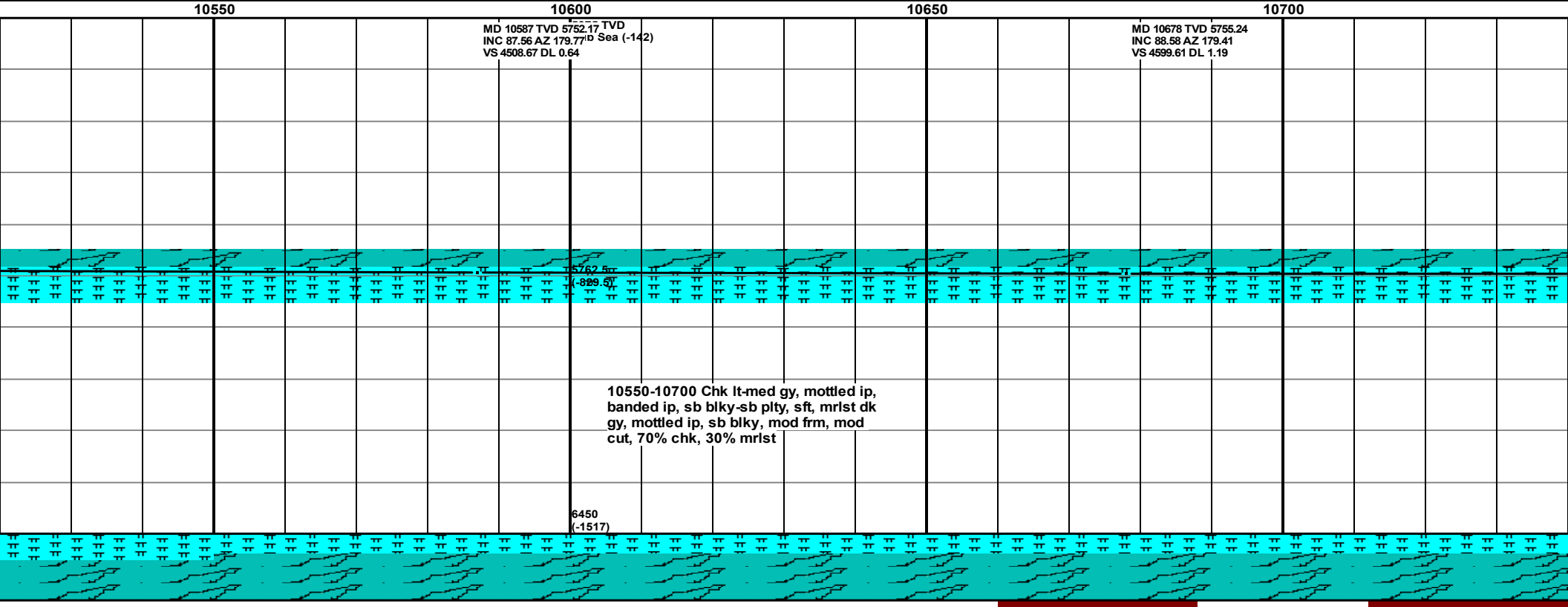
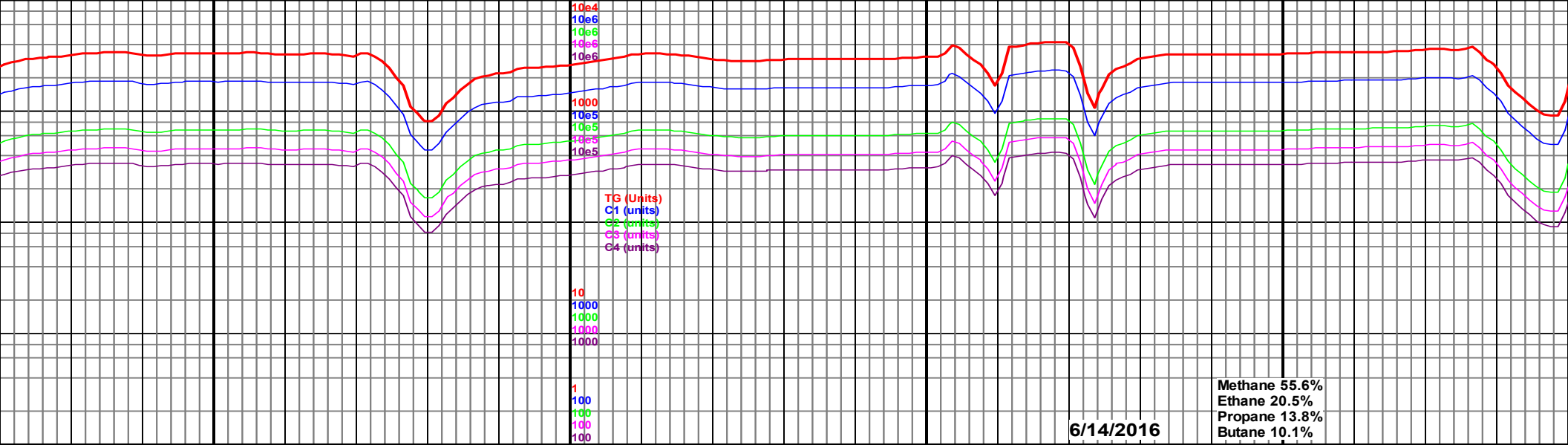


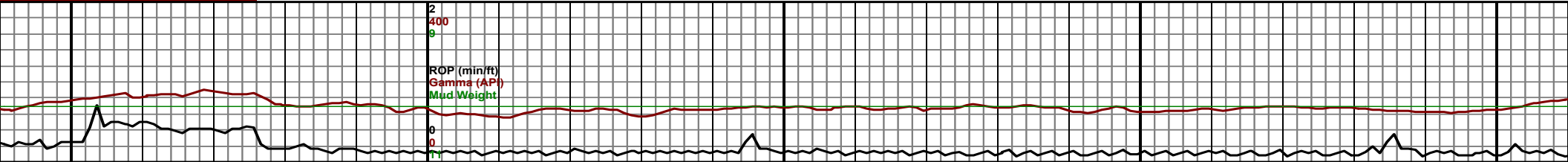
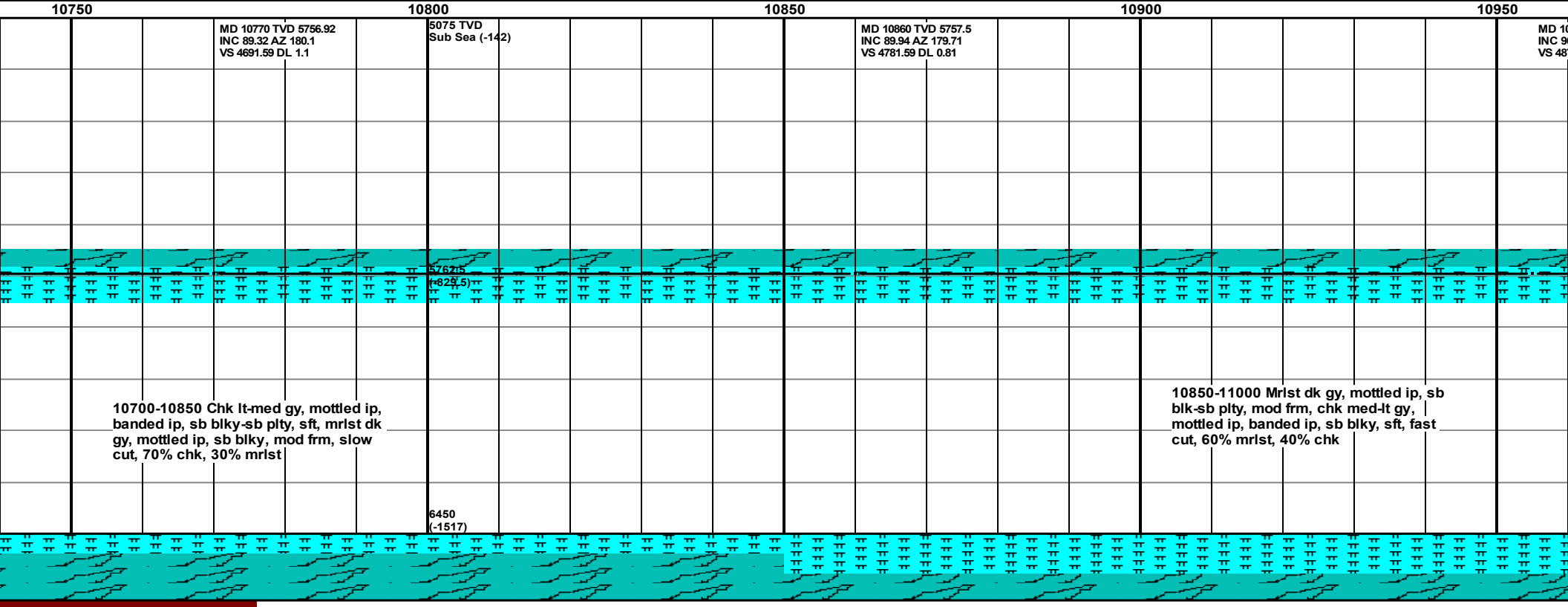
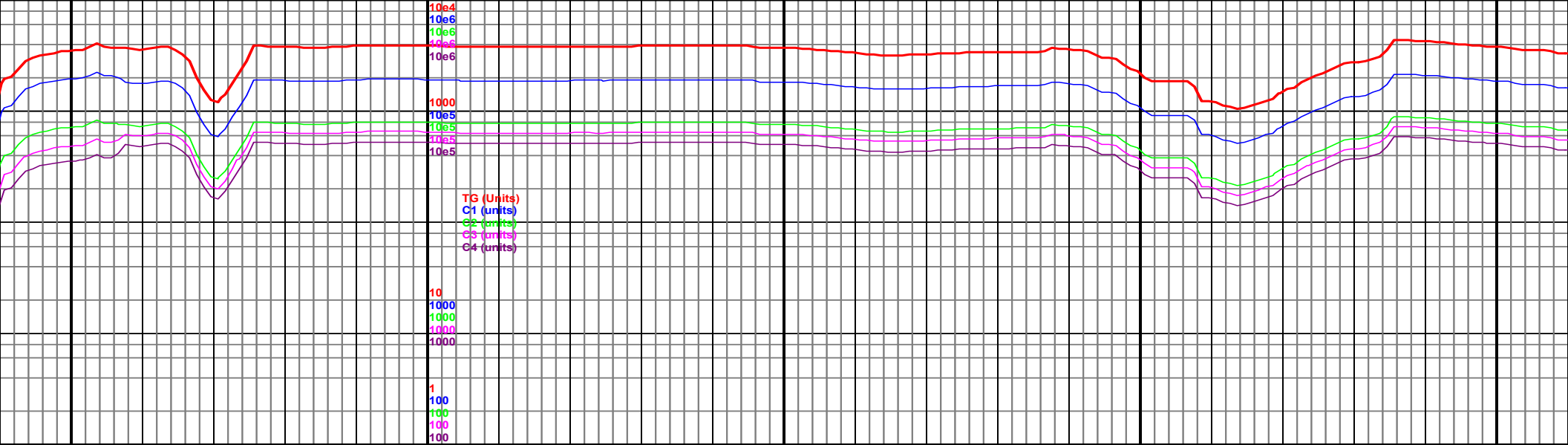


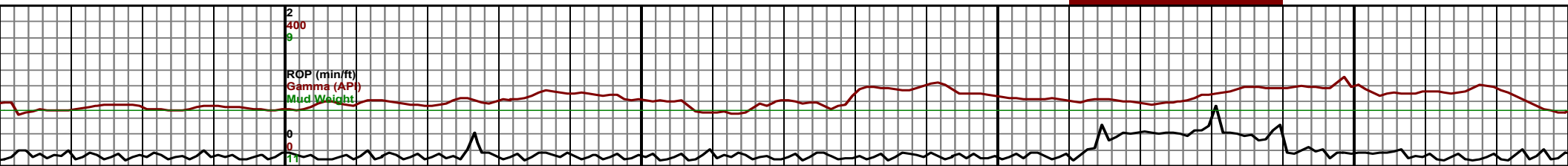
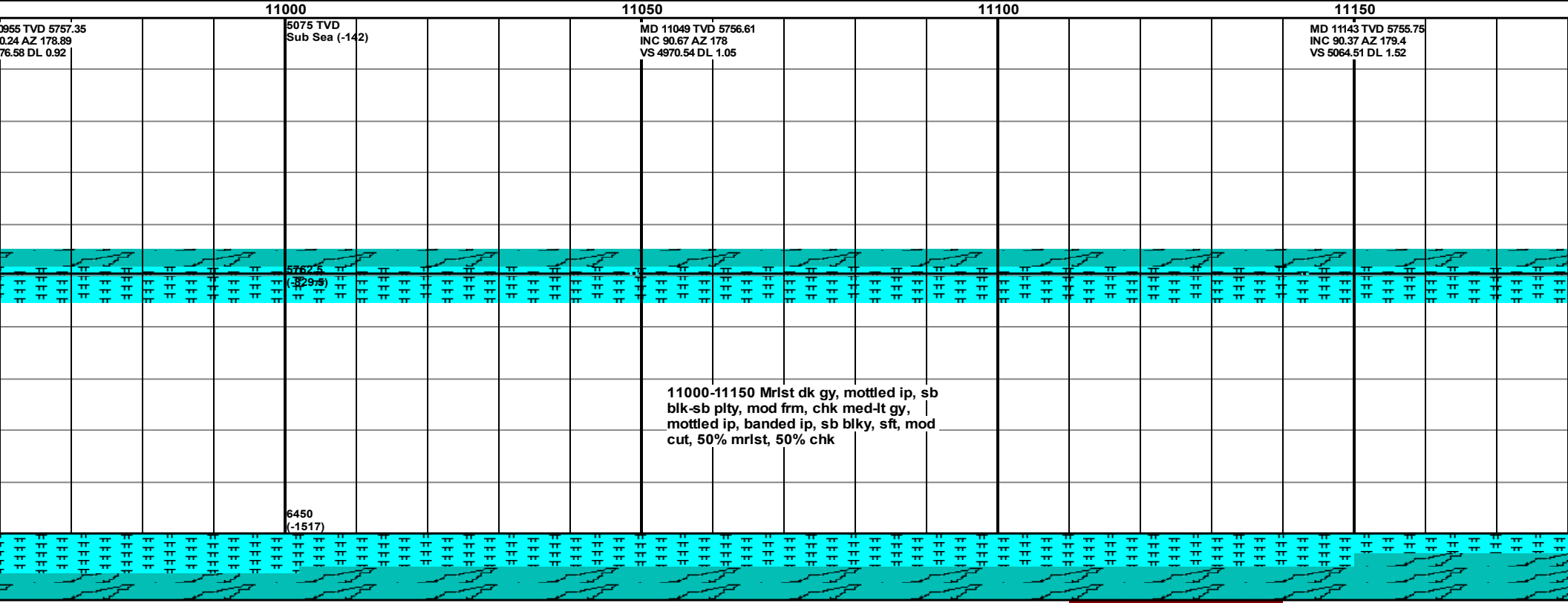
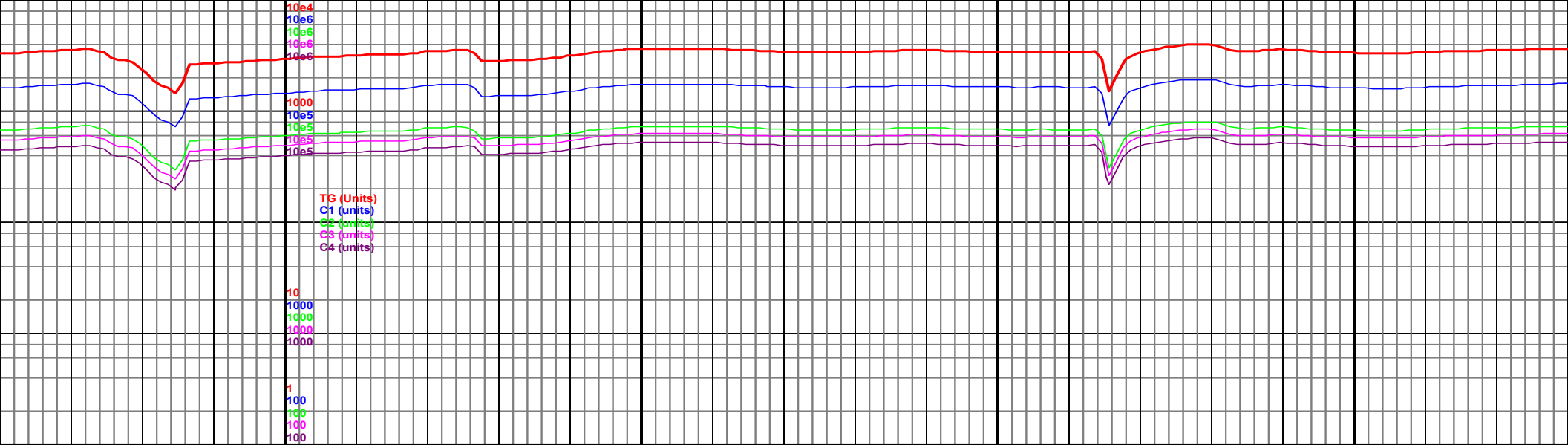


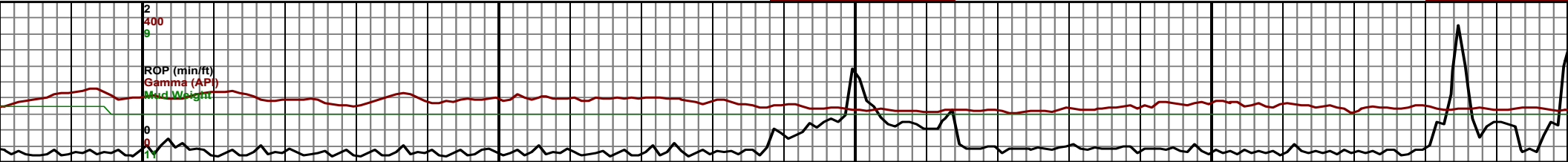
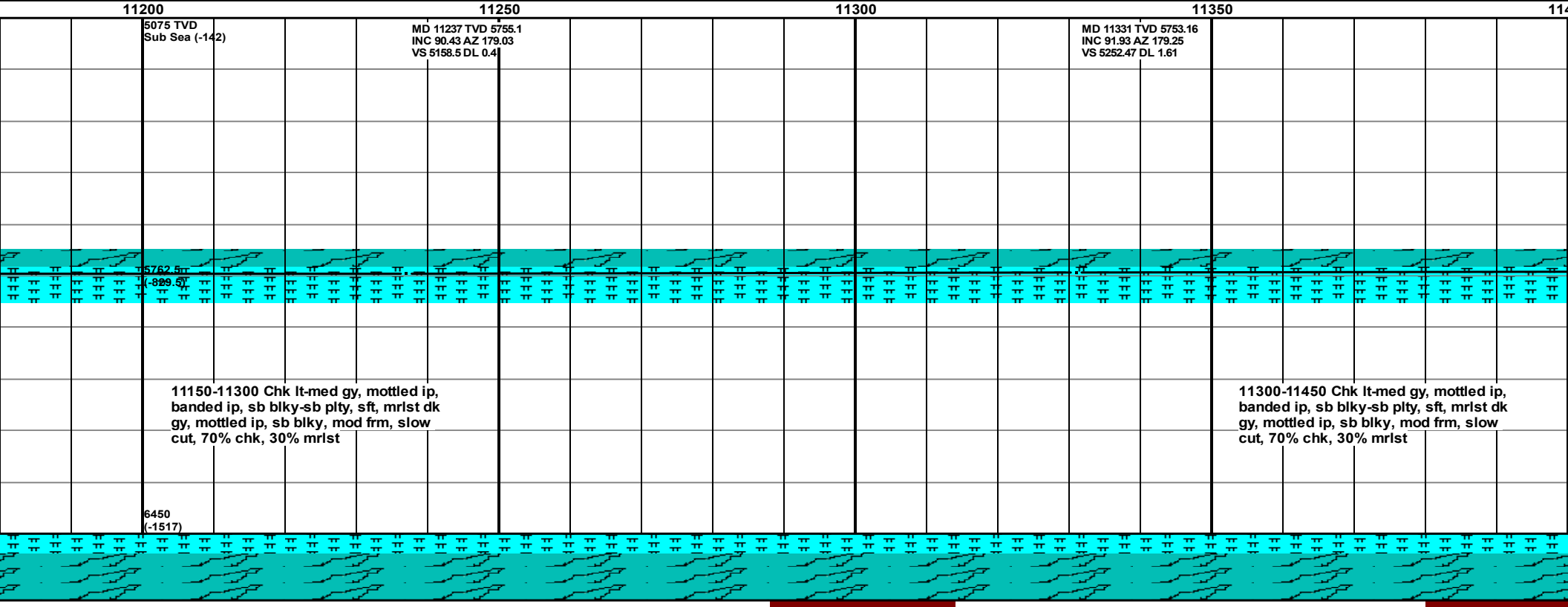
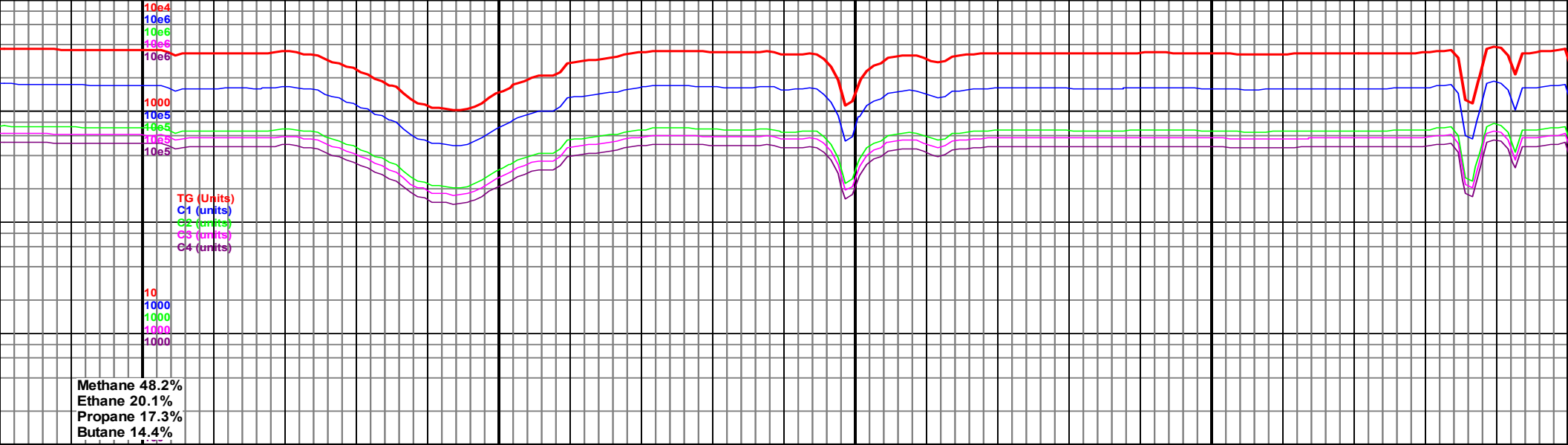


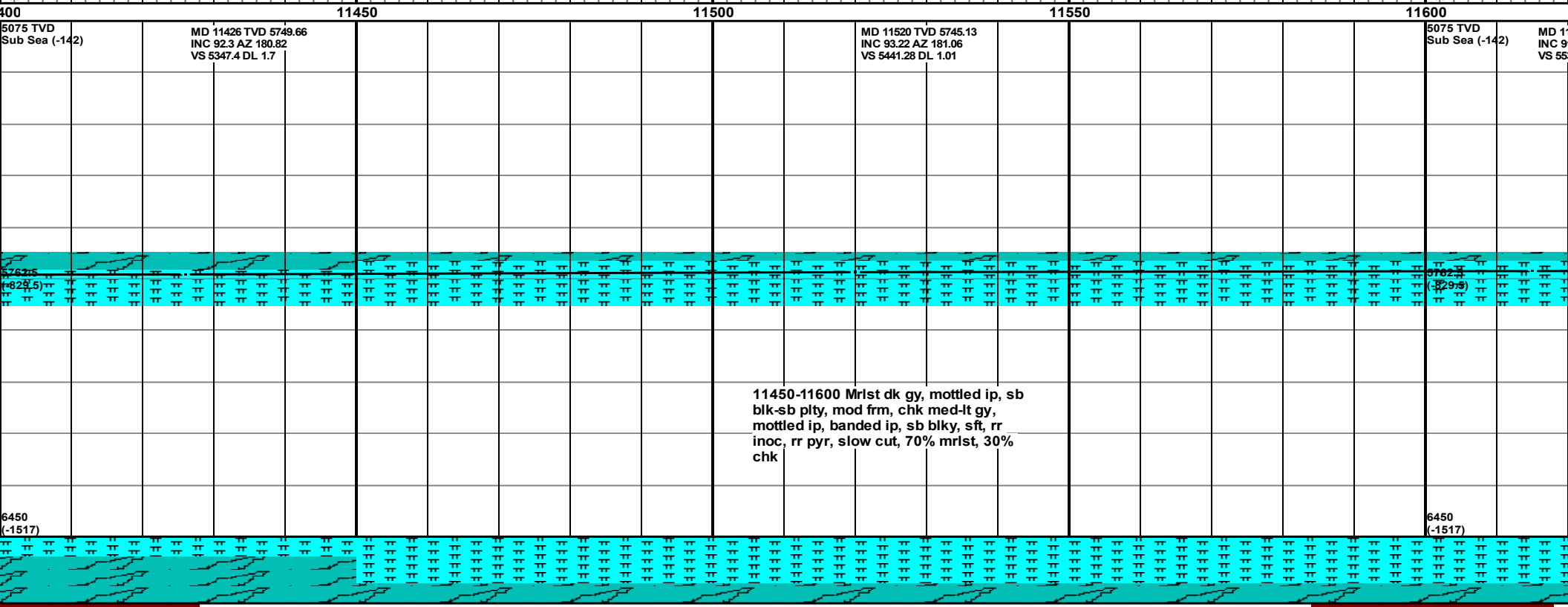
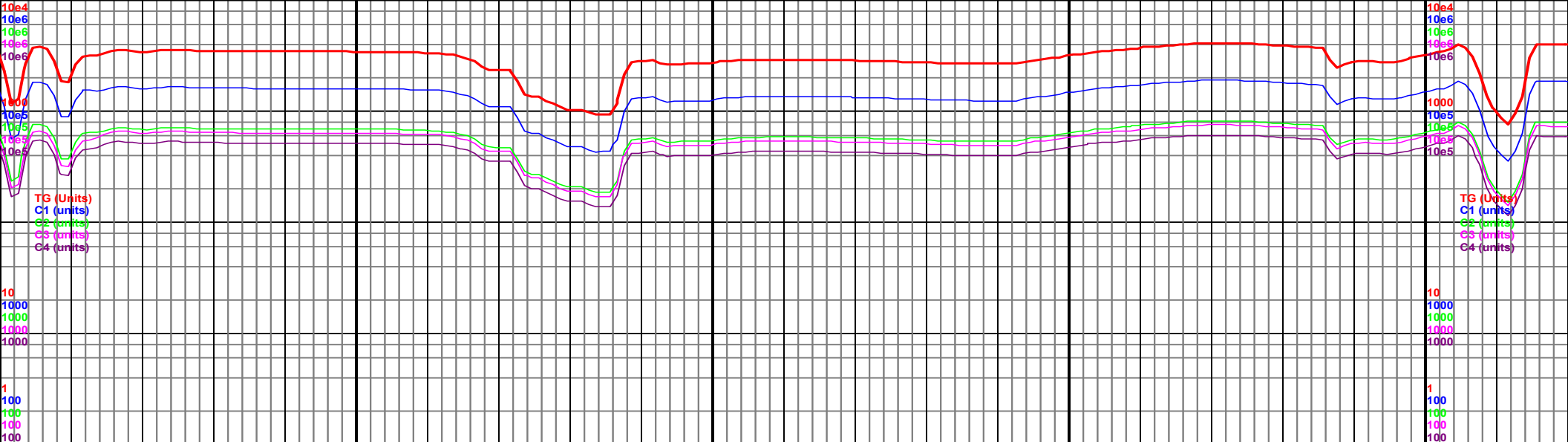




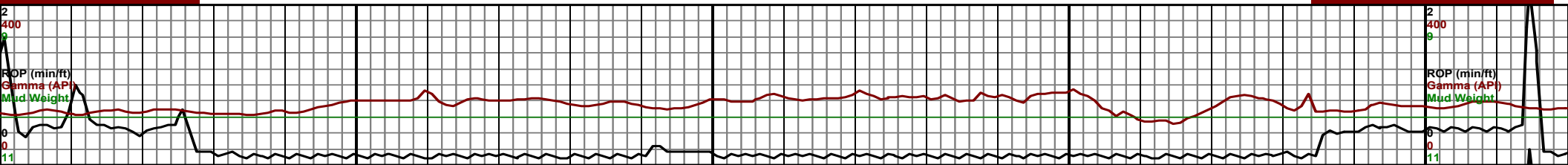


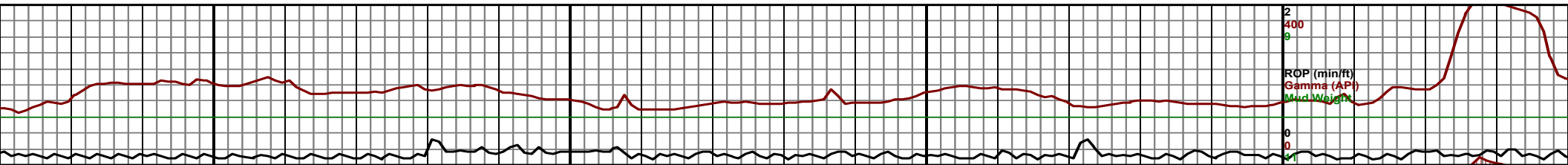
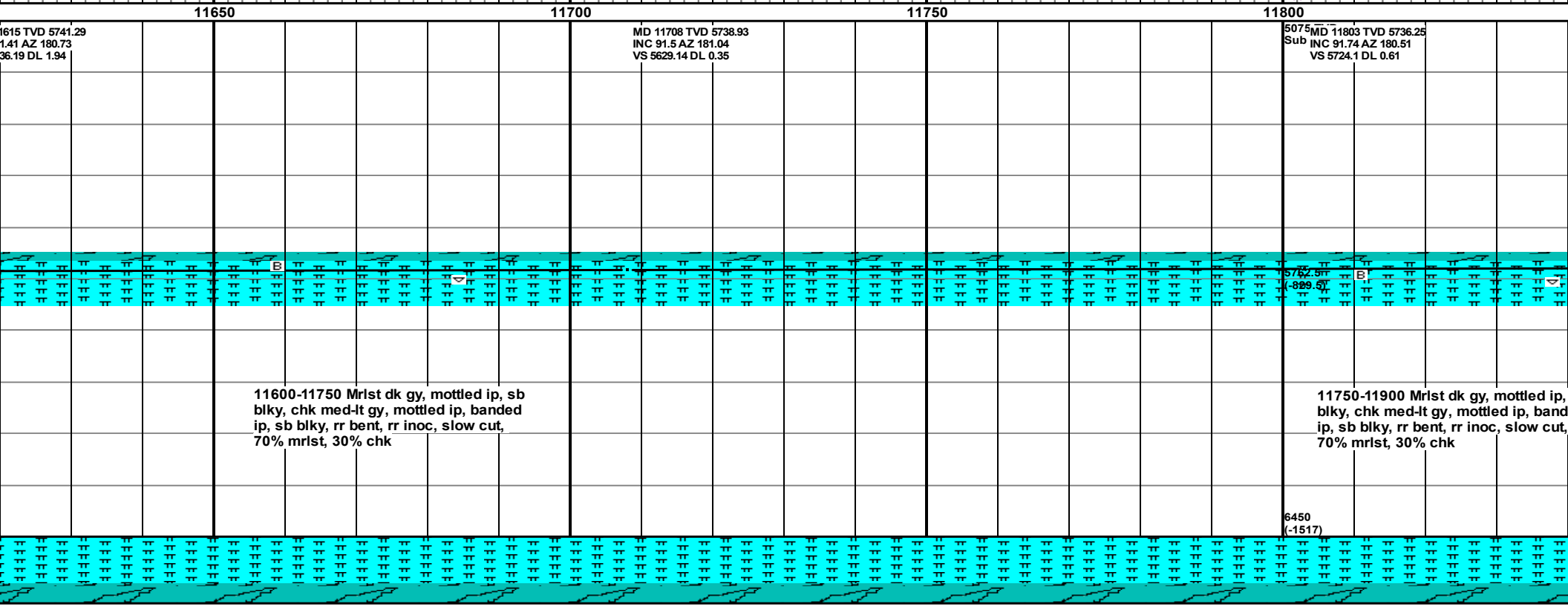
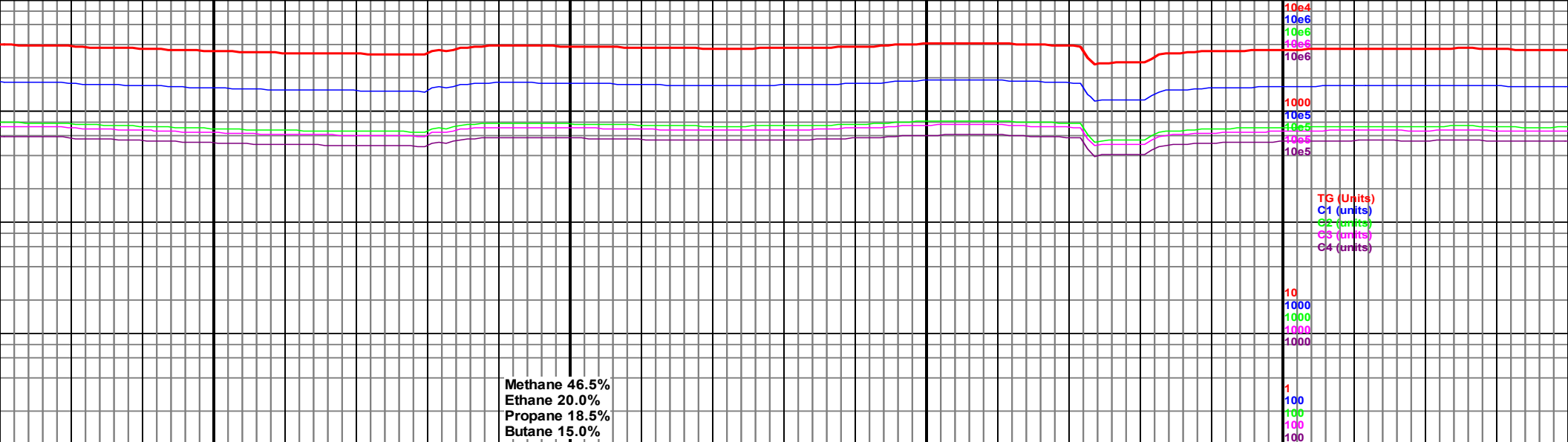


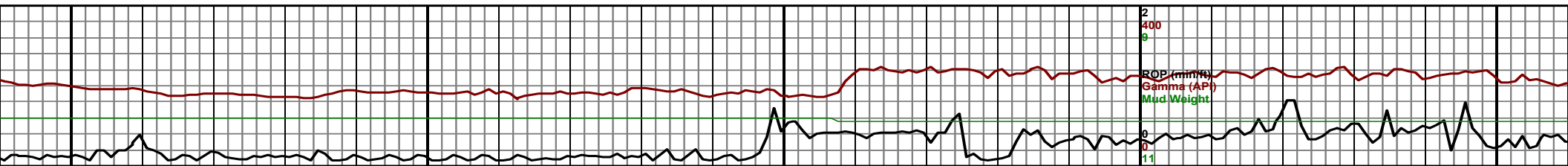
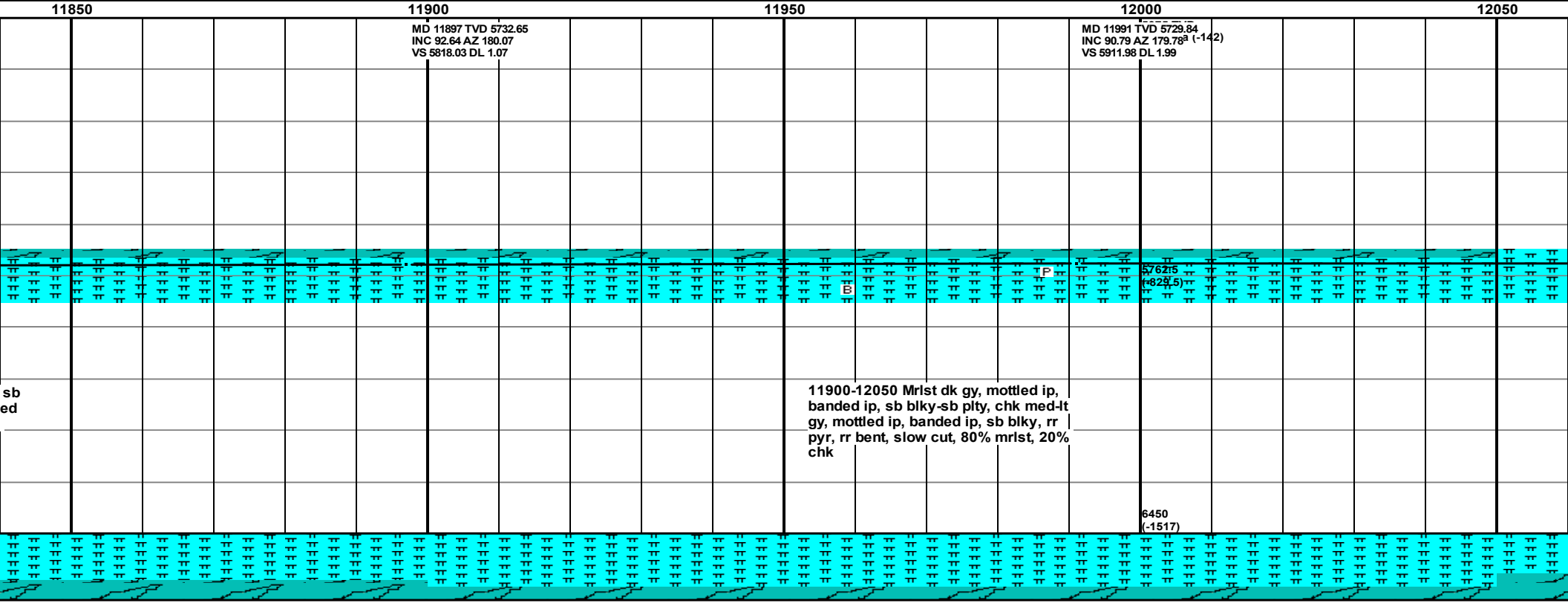
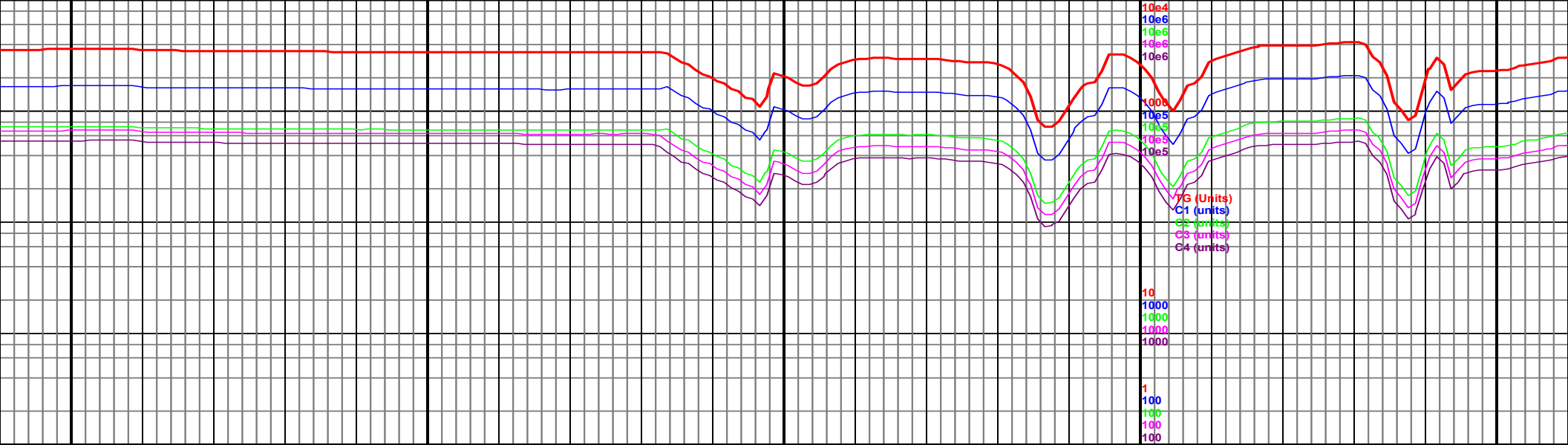


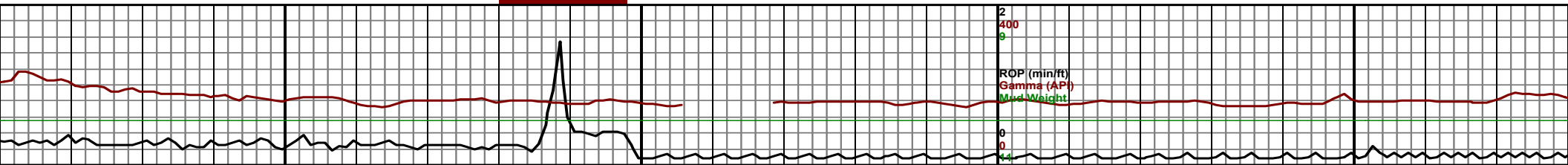
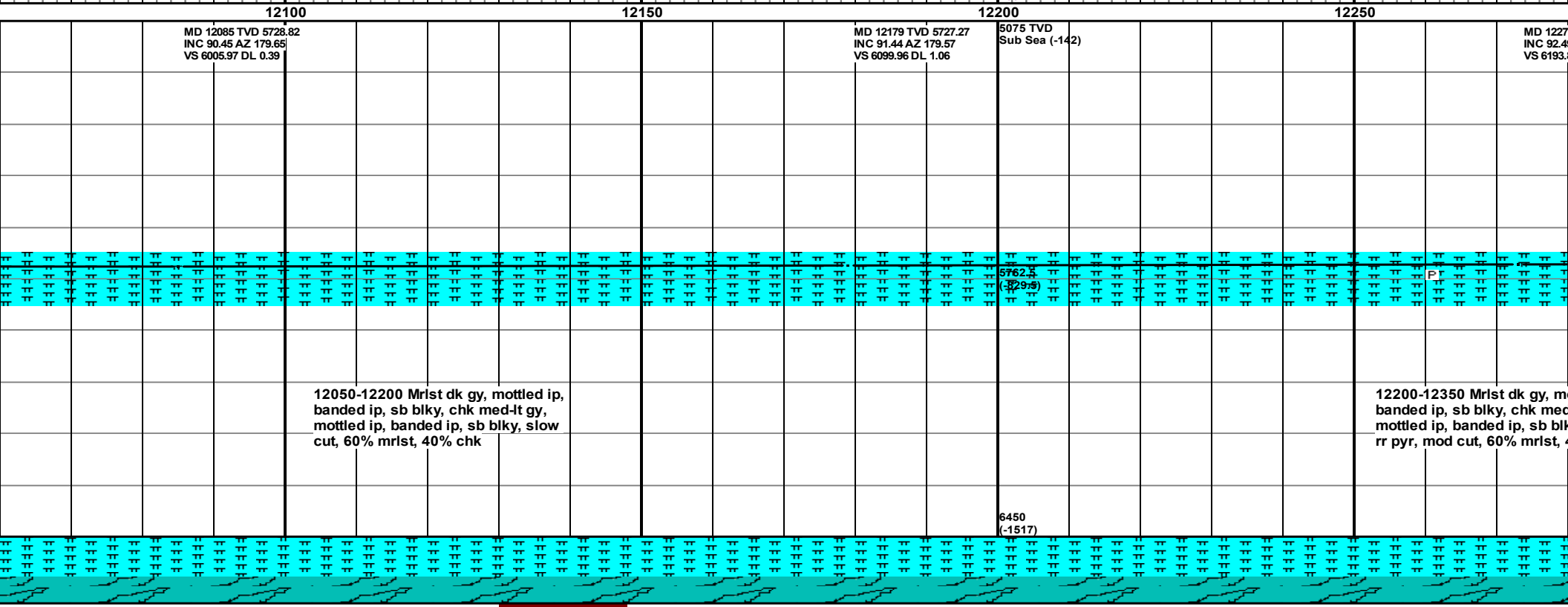
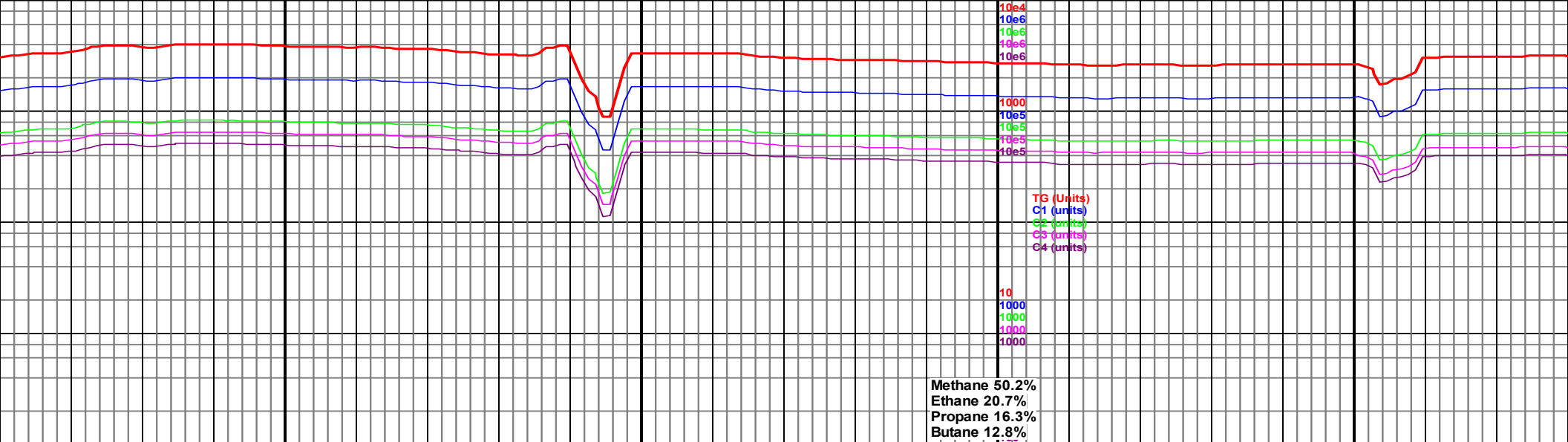


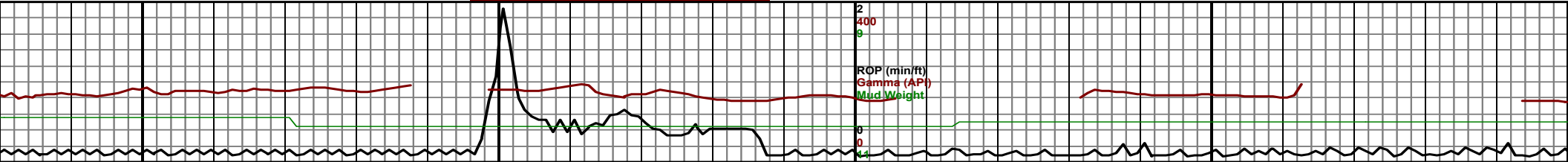
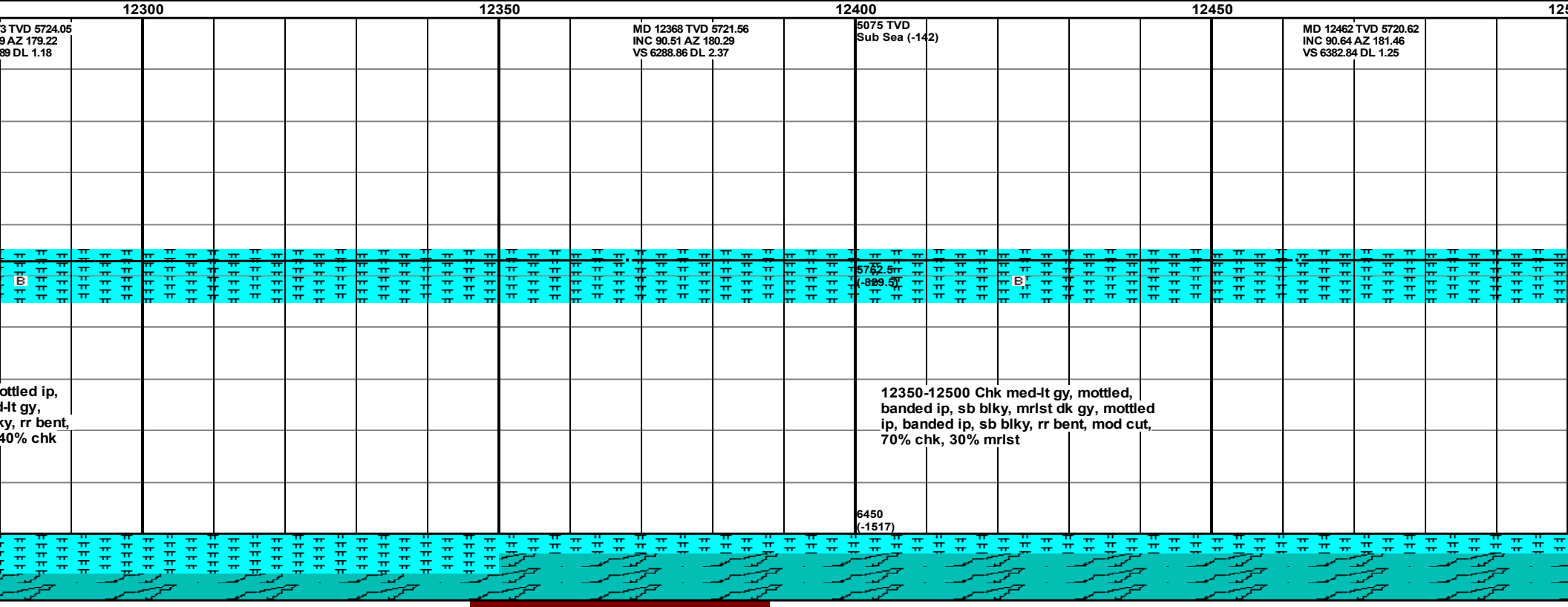
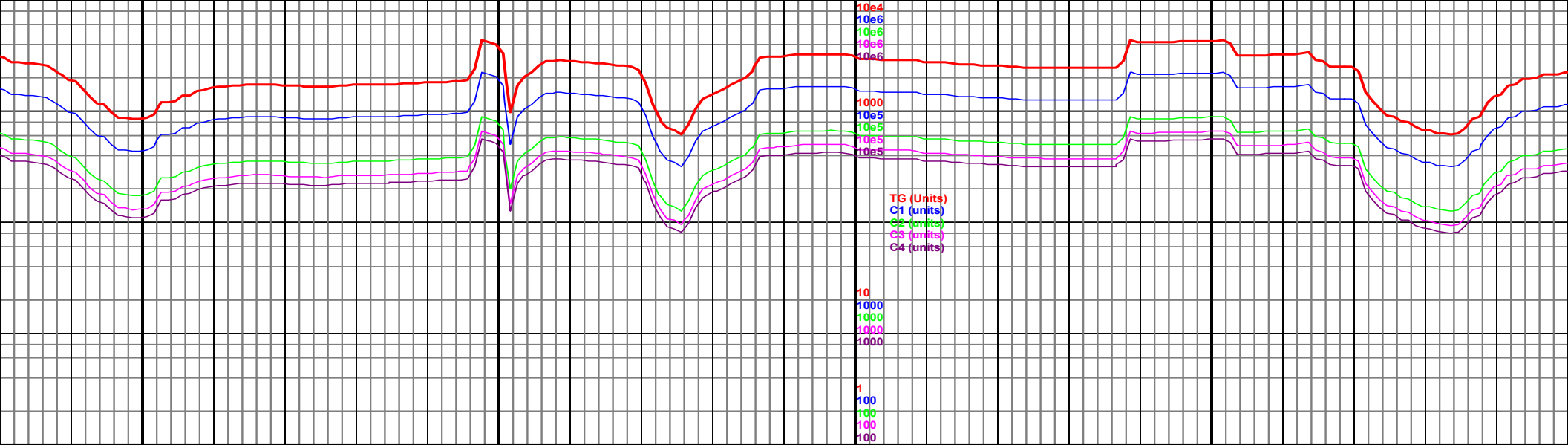
11450-11600 Mrlst dk gy, mottled ip, sb
blk-sb plty, mod frm, chk med-lt gy,
mottled ip, banded ip, sb blk, sft, rr
inoc, rr pyr, slow cut, 70% mrilst, 30%
chk

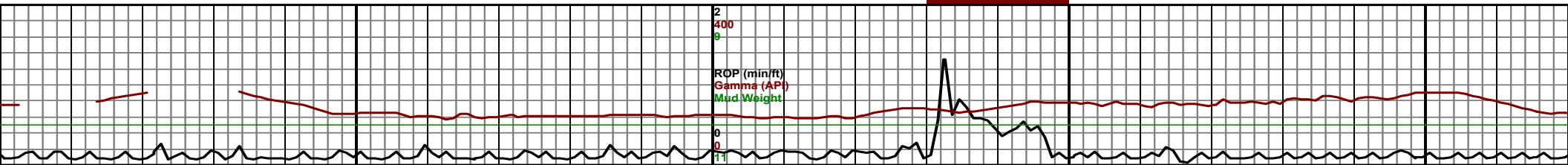
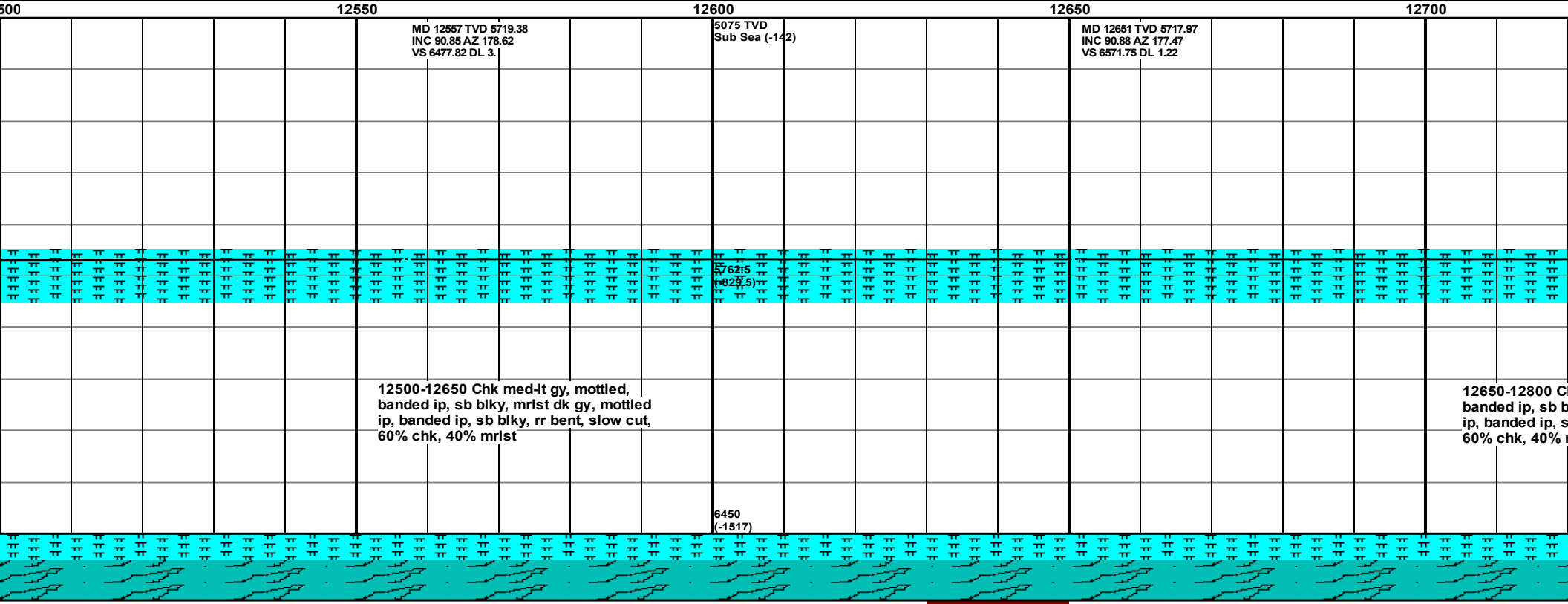
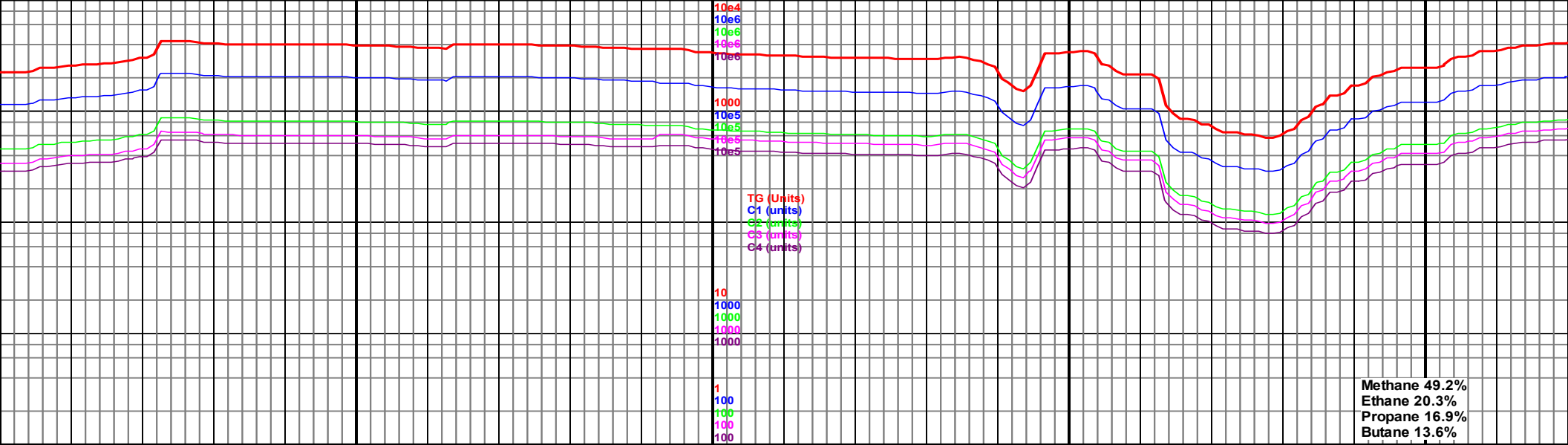


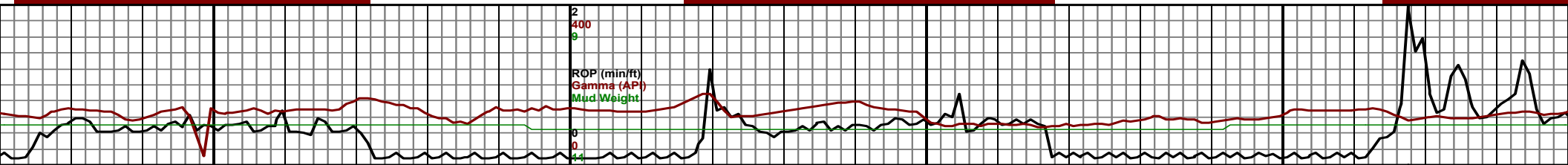
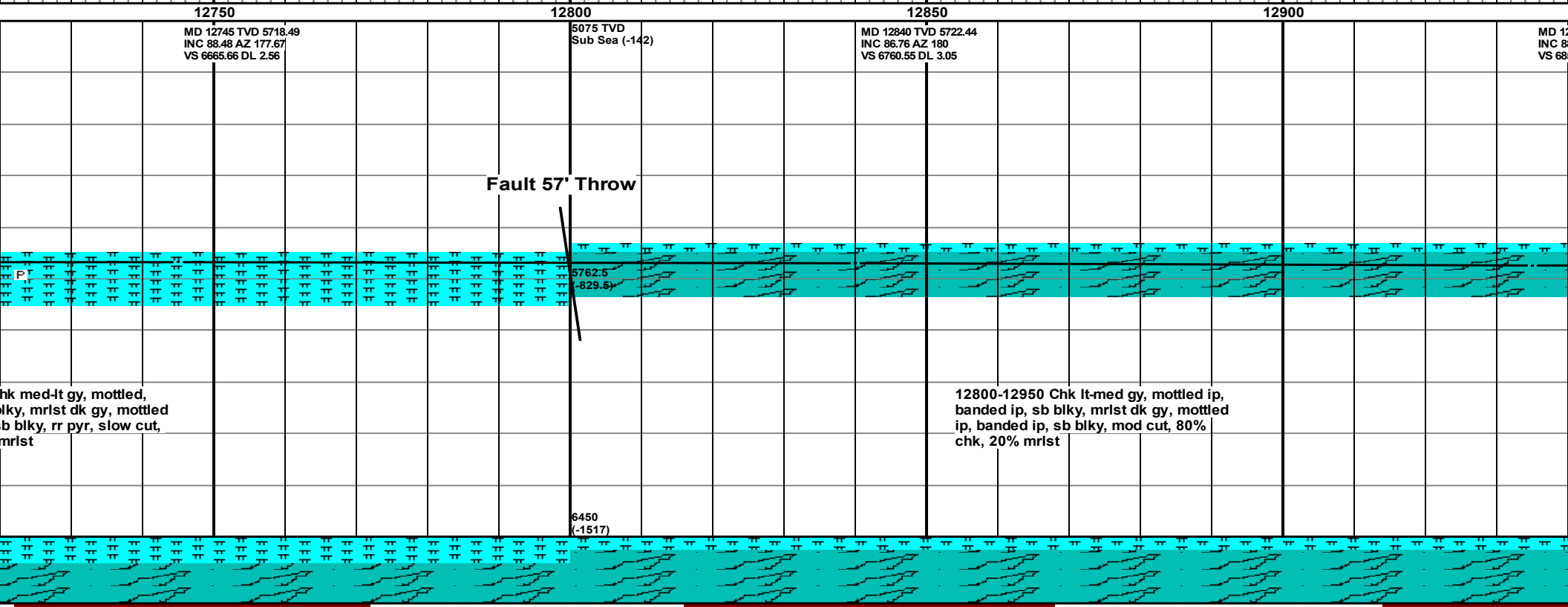
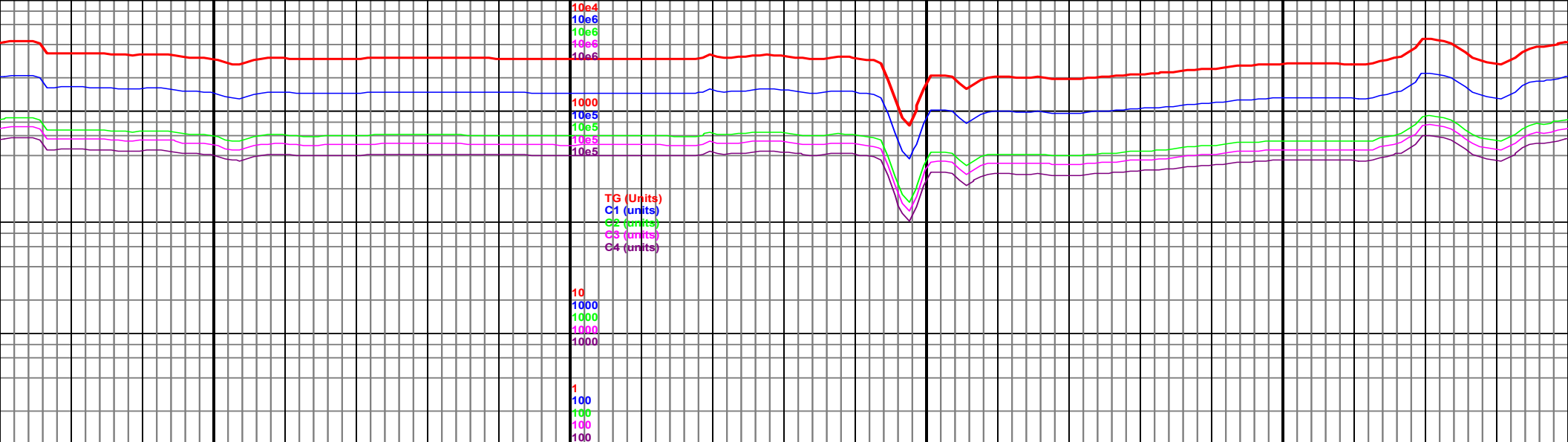


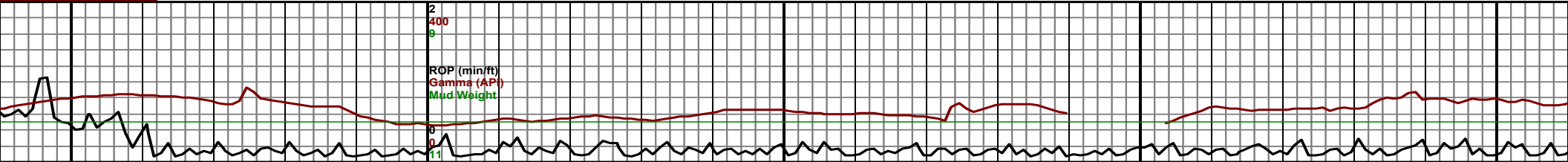
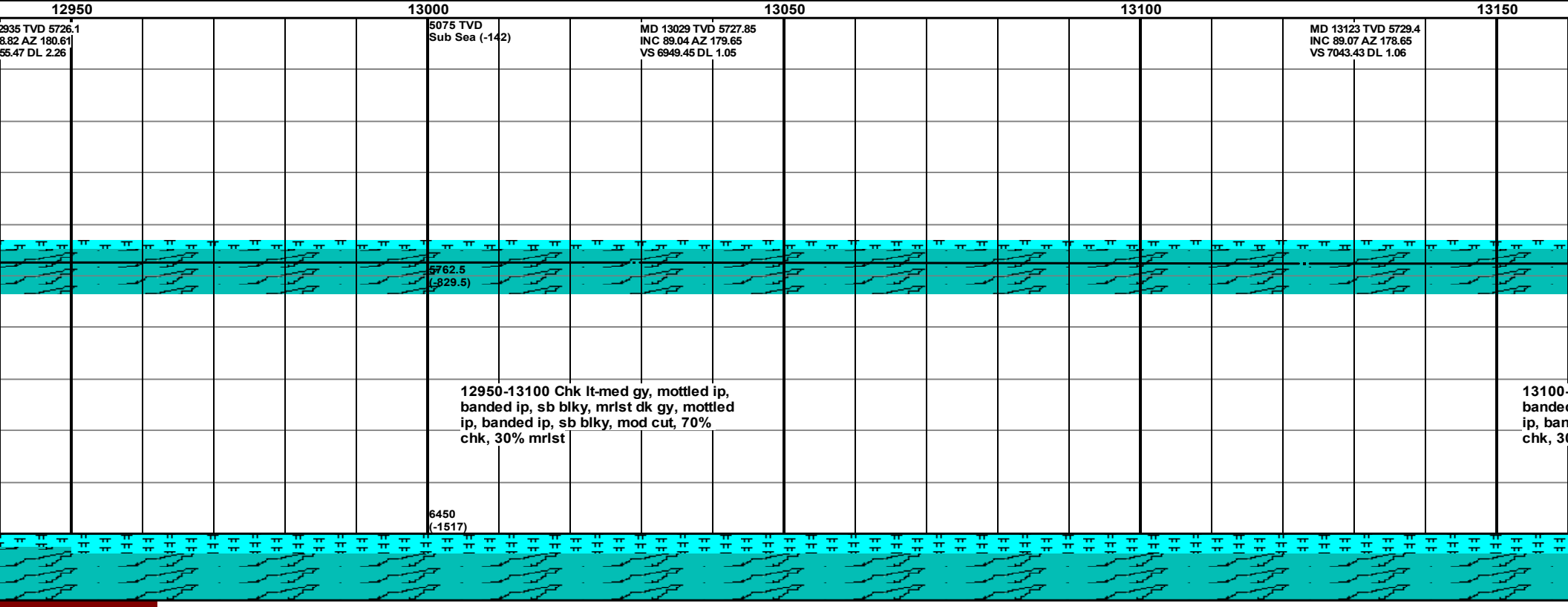
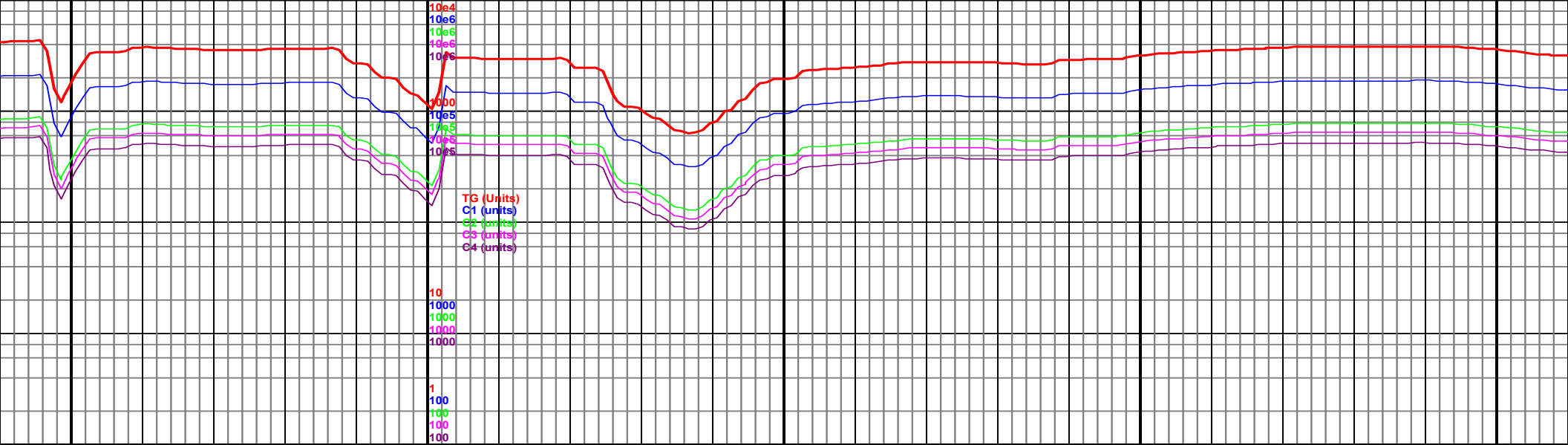


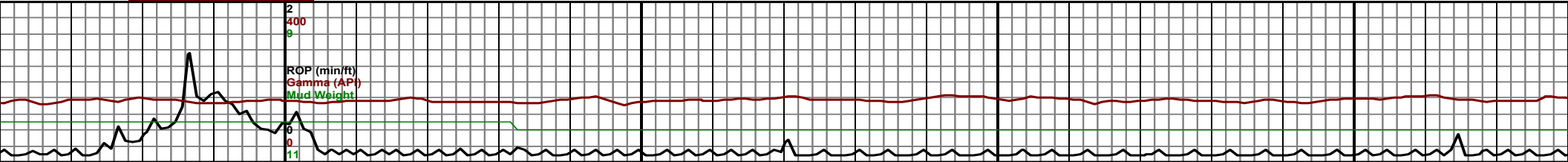
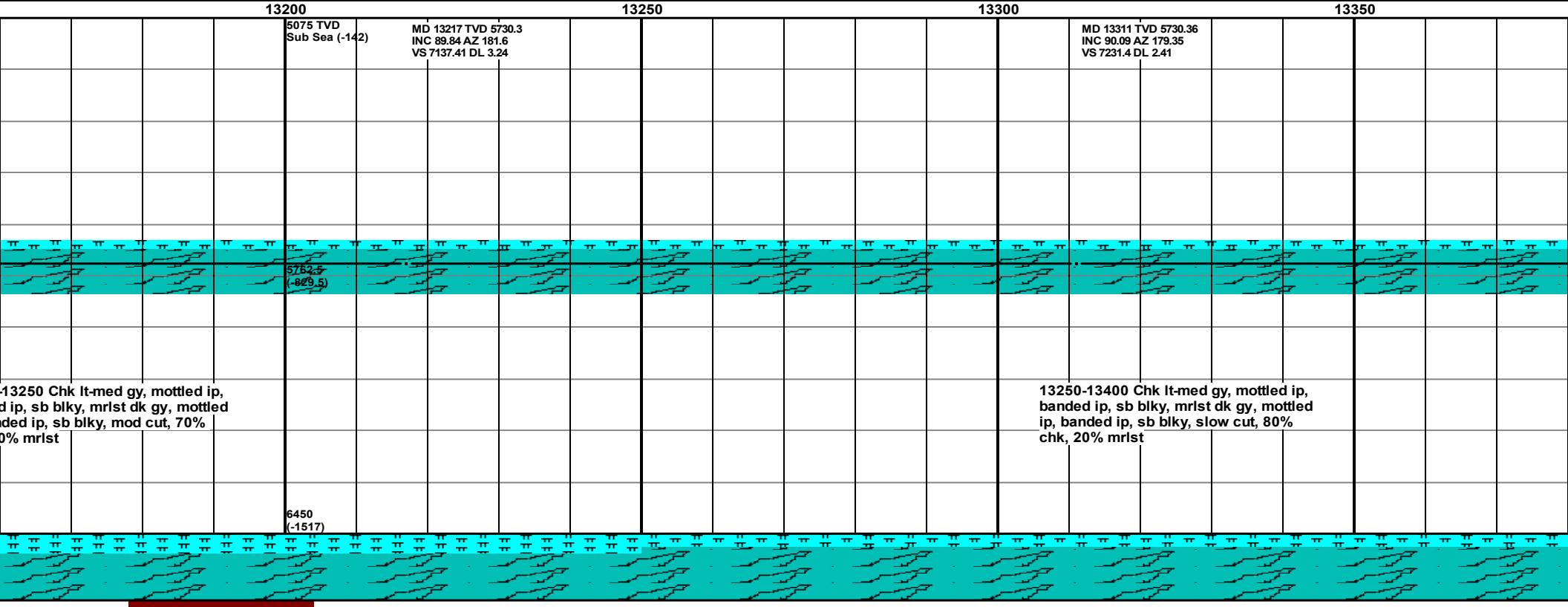
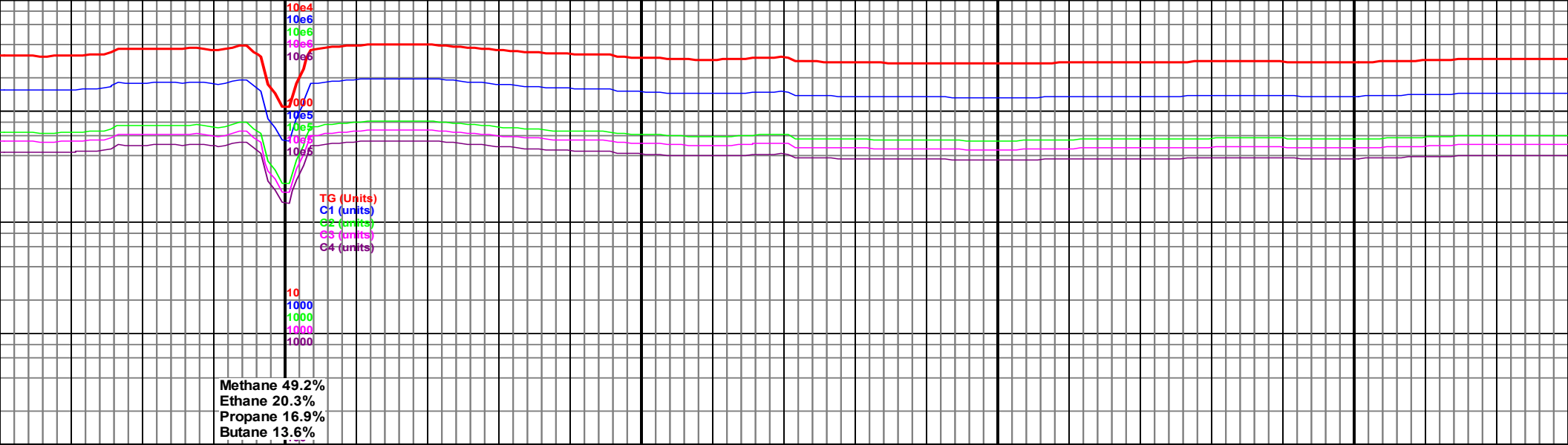


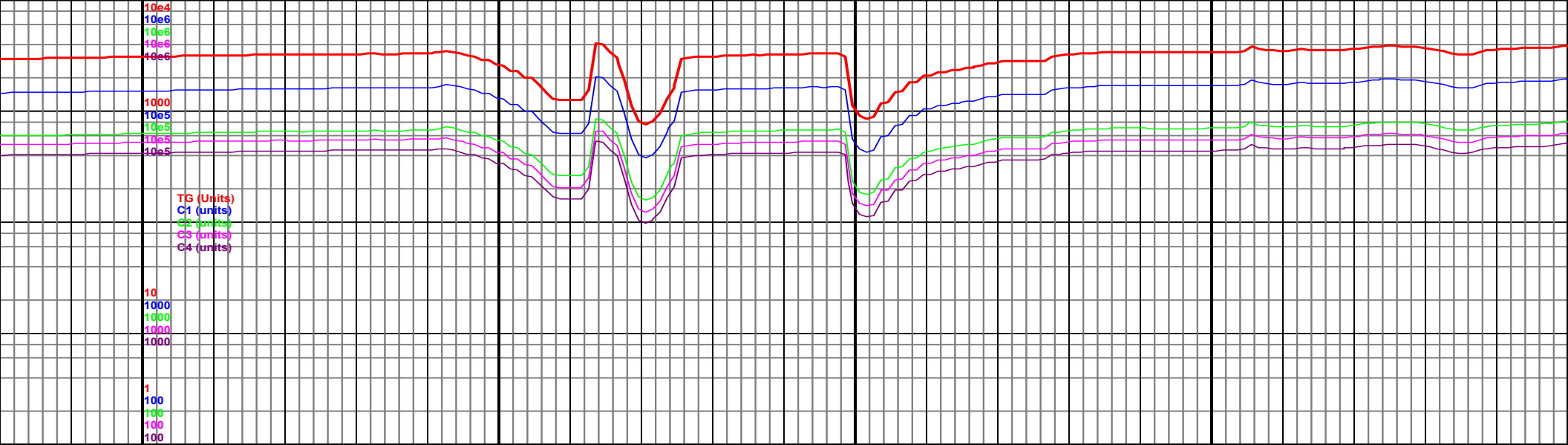




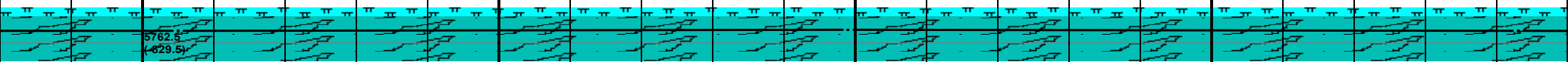






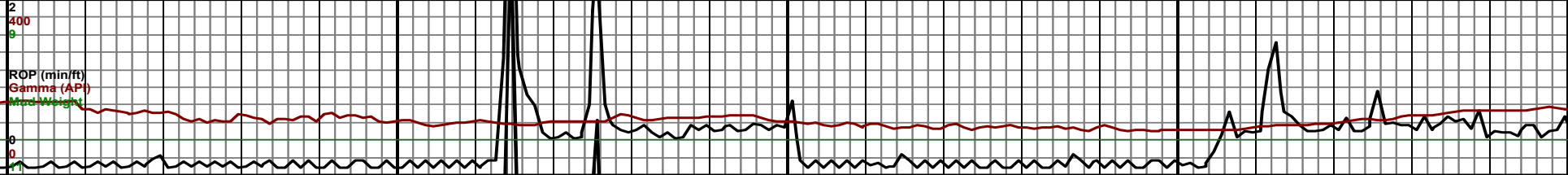


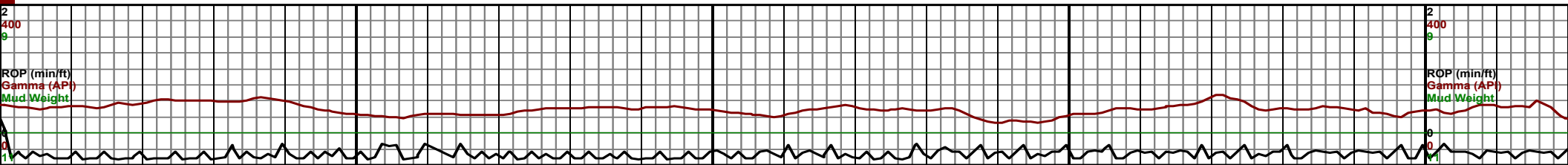
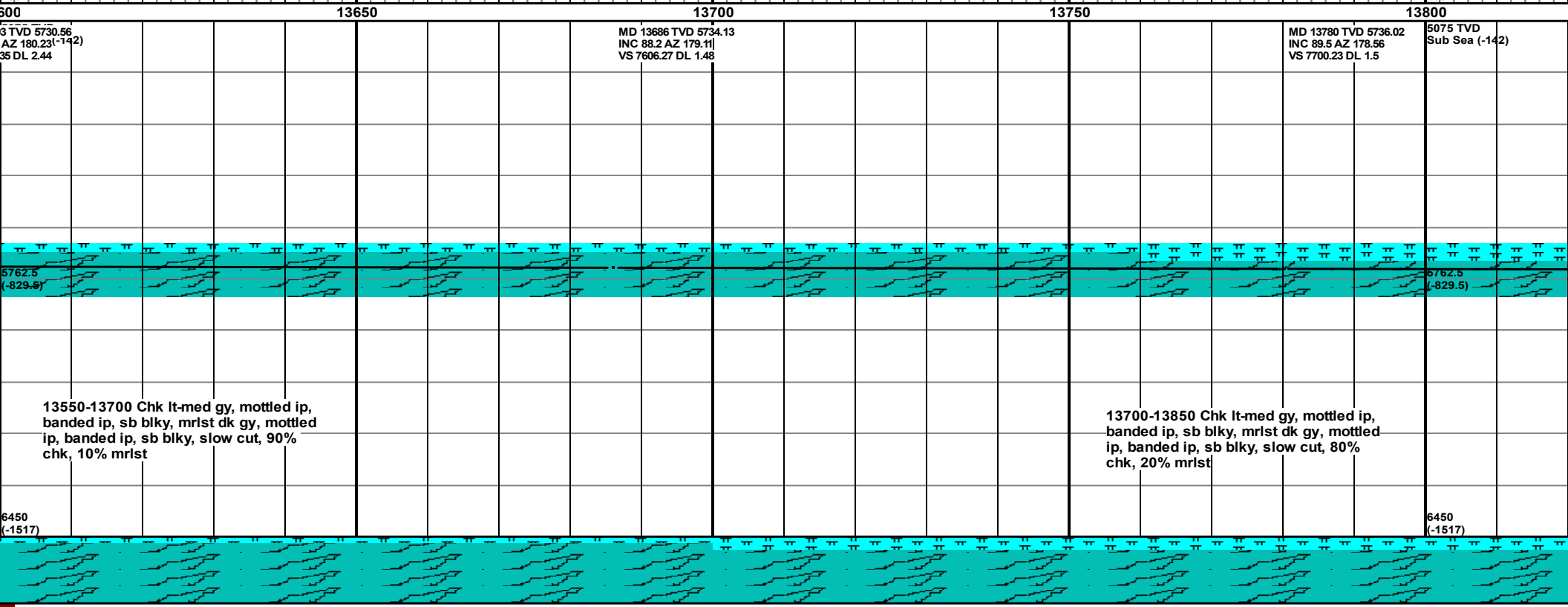
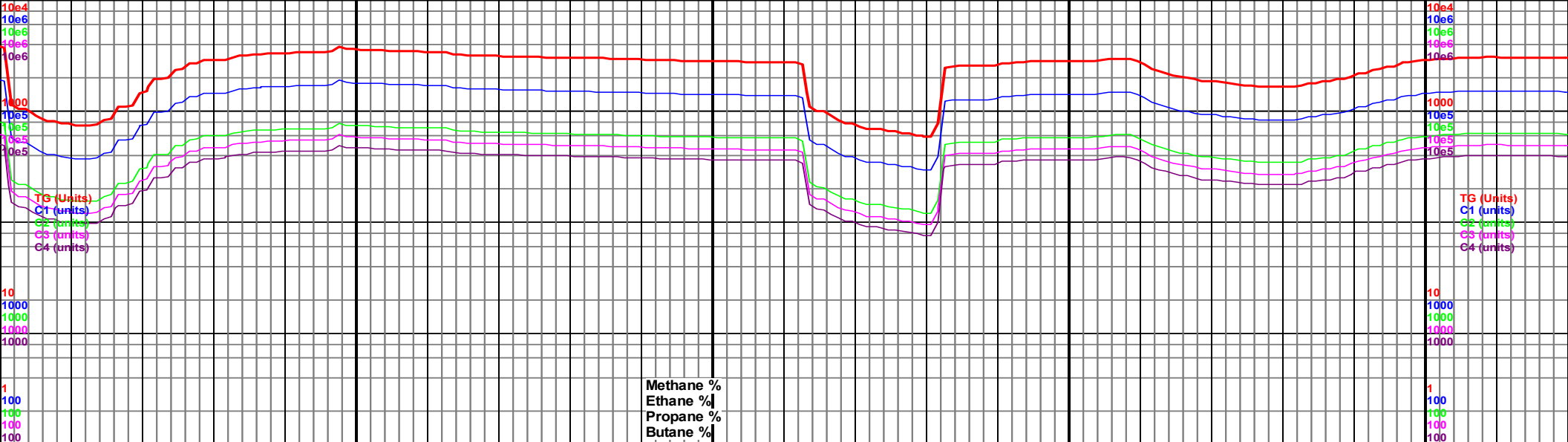
13400	13450	13500	13550	13600
5075 T _{MD} 13405 TVD 5729.1 Sub Se _{INC} 91.44 AZ 180.35 VS 7325.39 DL 1.79		MD 13499 TVD 5728.17 INC 89.69 AZ 180.05 VS 7419.38 DL 1.89		MD 13599 TVD 5728.17 INC 87.44 AZ 180.05 VS 7513.38 DL 1.89

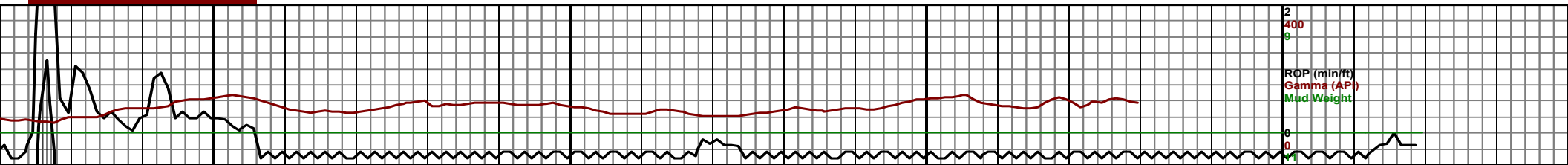
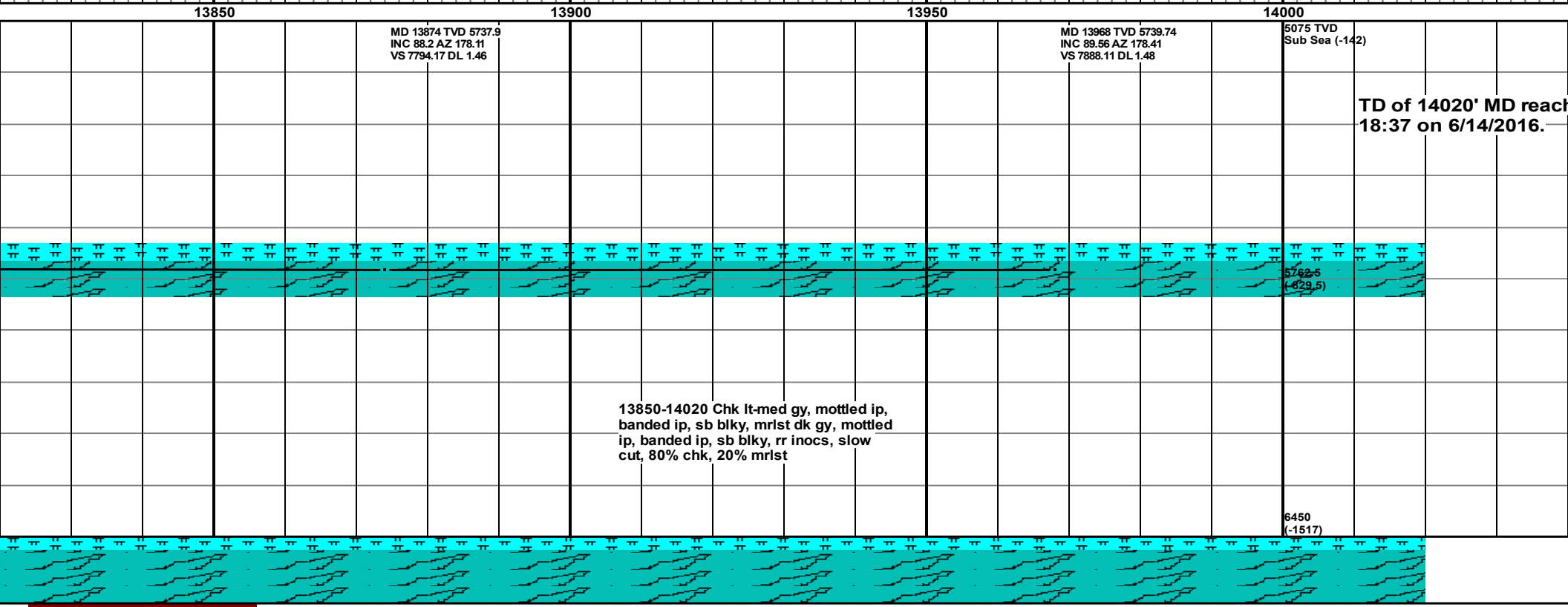
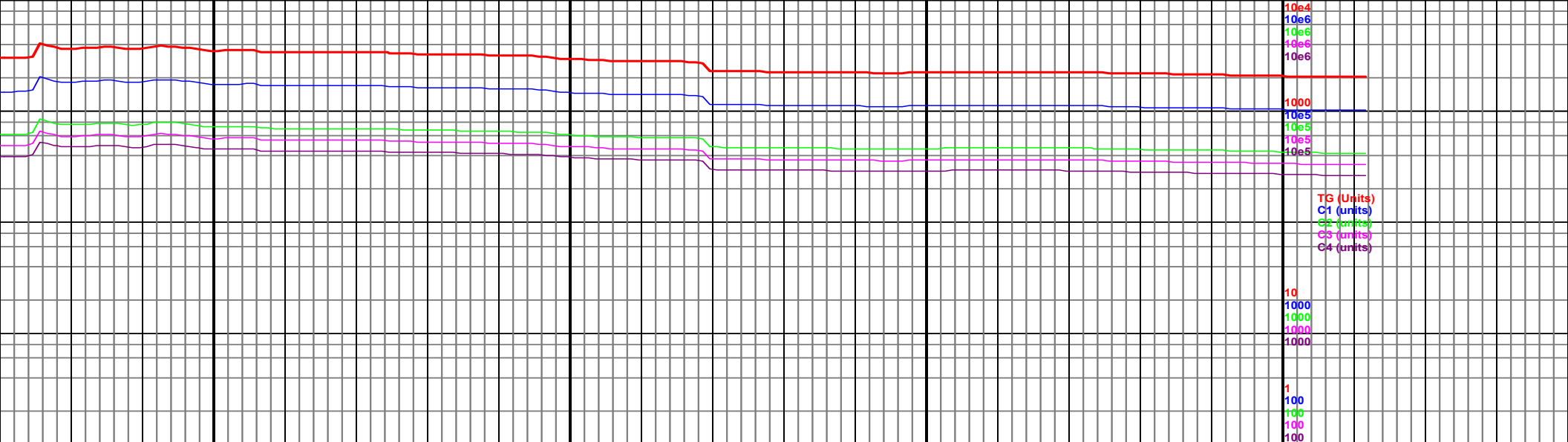


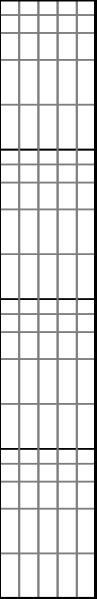
13400-13550 Chk lt-med gy, mottled ip, banded ip, sb blk, mrlst dk gy, mottled ip, banded ip, sb blk, slow cut, 80% chk, 20% mrlst

6450
(-1517)









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