



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

Well Name: Horsetail 07H-0646
API: 051234183400
Location: SENW SEC 30-T10N-R57W
License Number:
Spud Date: 2/12/2017
Surface Coordinates: Lat.: 40.853417 Long.: -103.787558

Region: Redtail Field
Drilling Completed: 2/15/2017

Bottom Hole
Coordinates:
Ground Elevation (ft): 4912
Logged Interval (ft): 5260 To: 13571
Formation: Niobrara
Type of Drilling Fluid: Water Based Mud

K.B. Elevation (ft): 4933
Total Depth (ft): 13571

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

Drilling Company

Unit Drilling Company
Rig 406

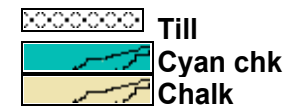
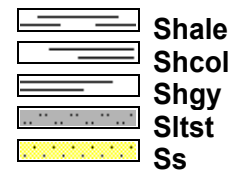
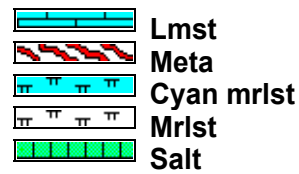
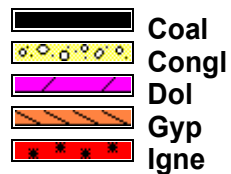
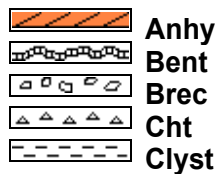
Gas Detection

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

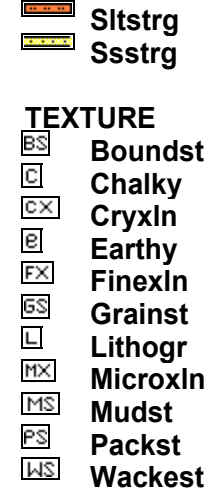
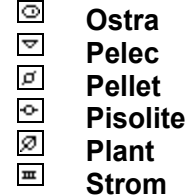
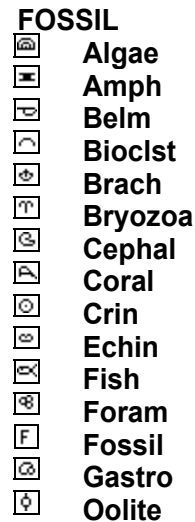
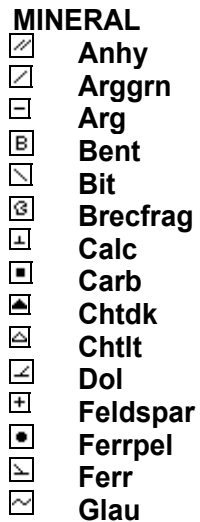
Comments








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

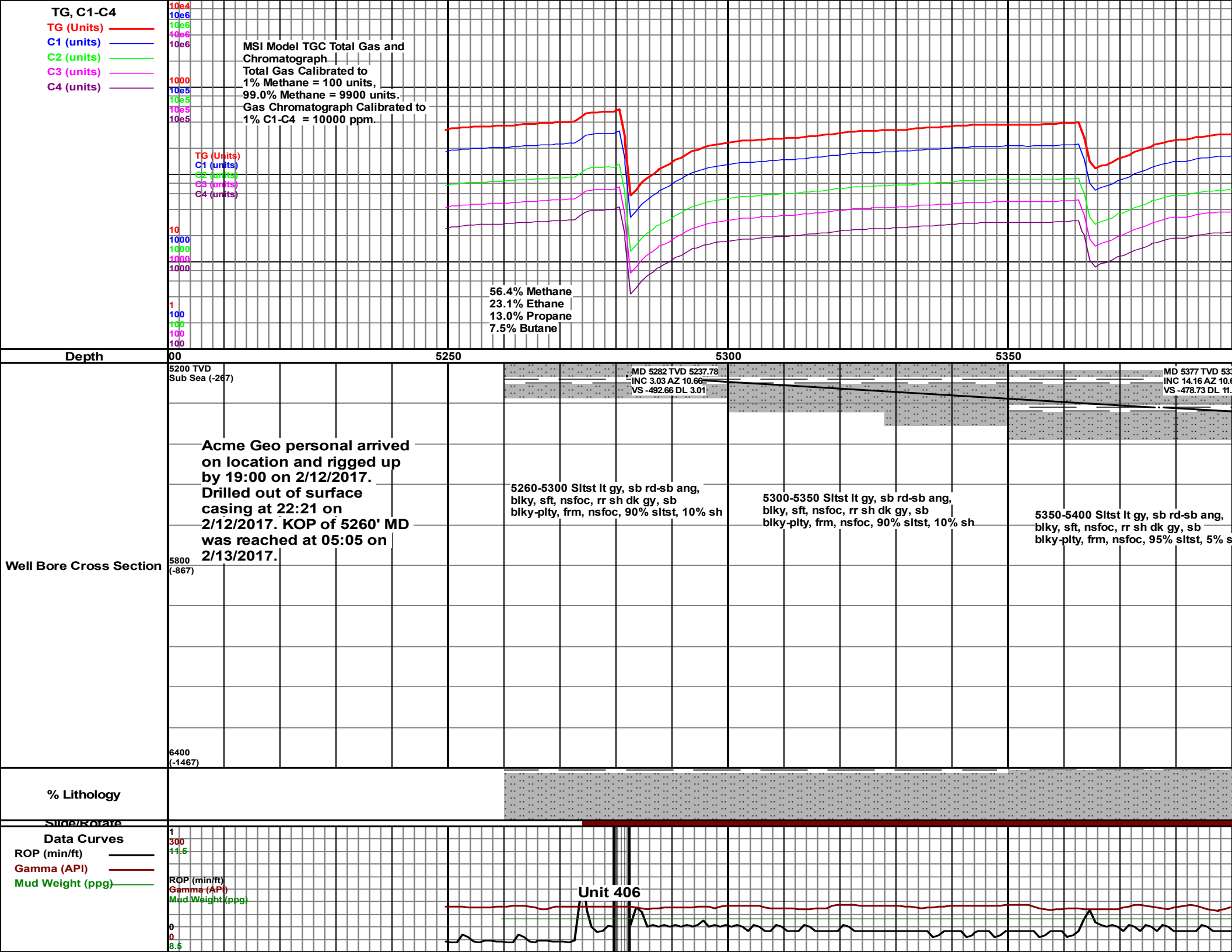
ROUNDING
 Rounded
 Subrnd
 Subang
 Angular

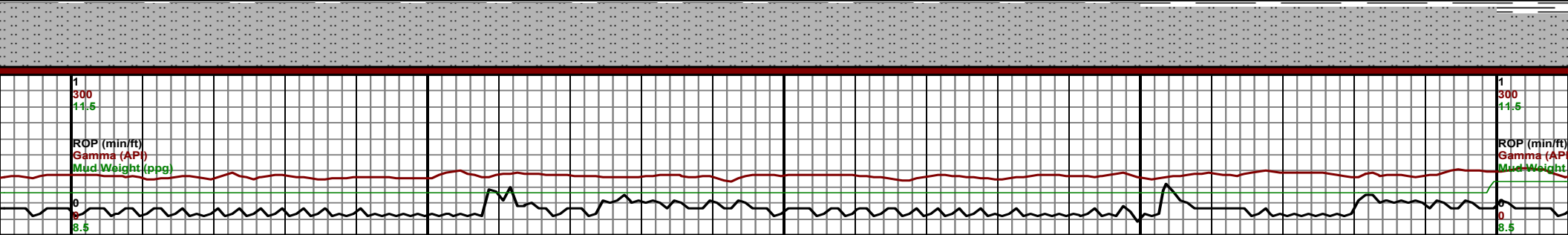
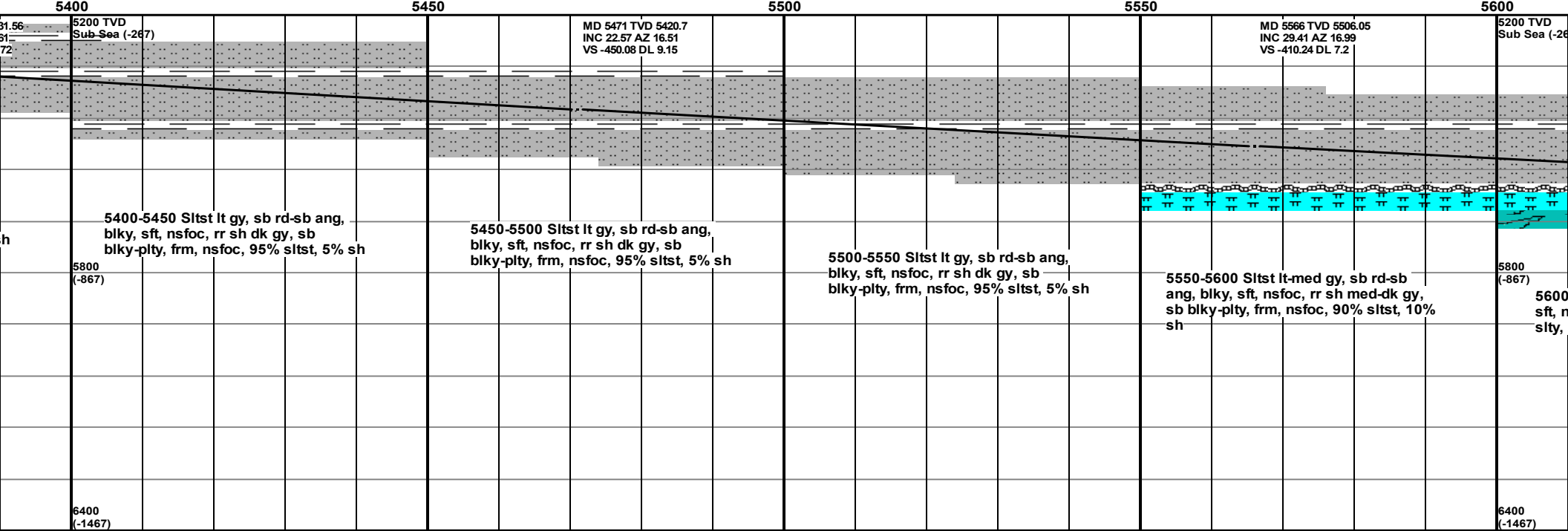
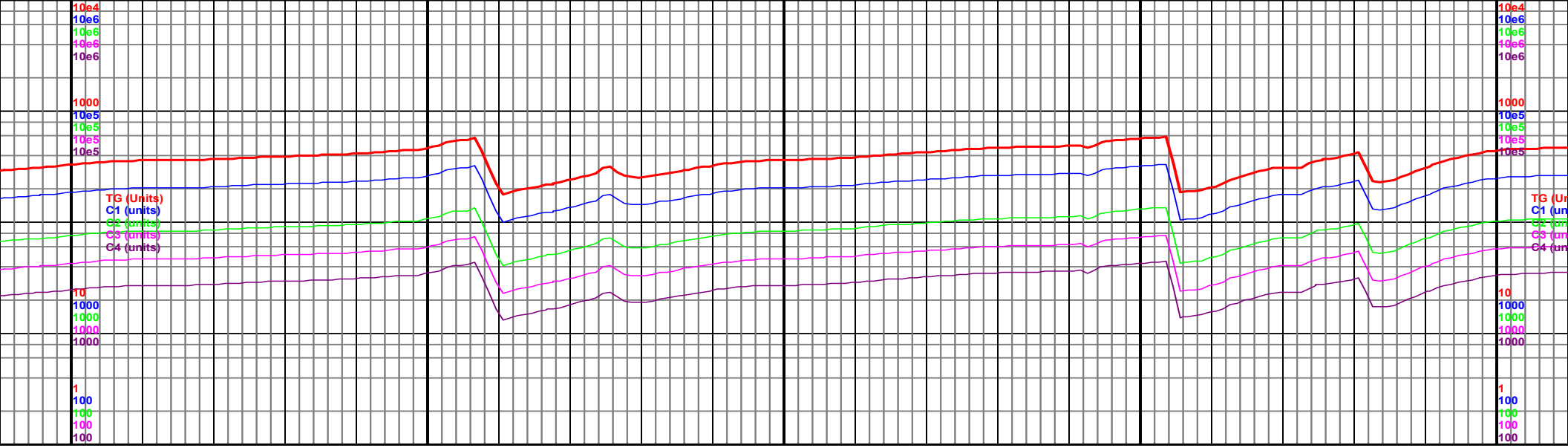
OIL SHOW
 Even

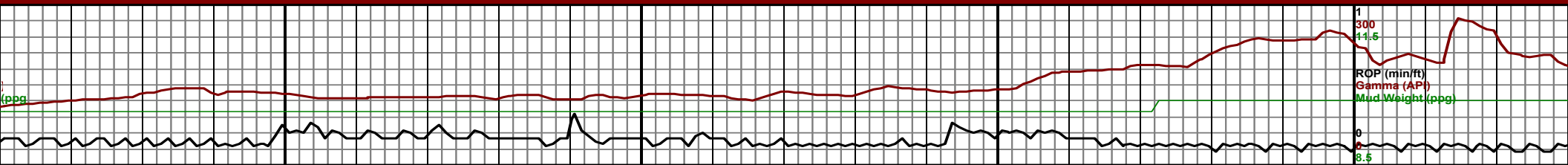
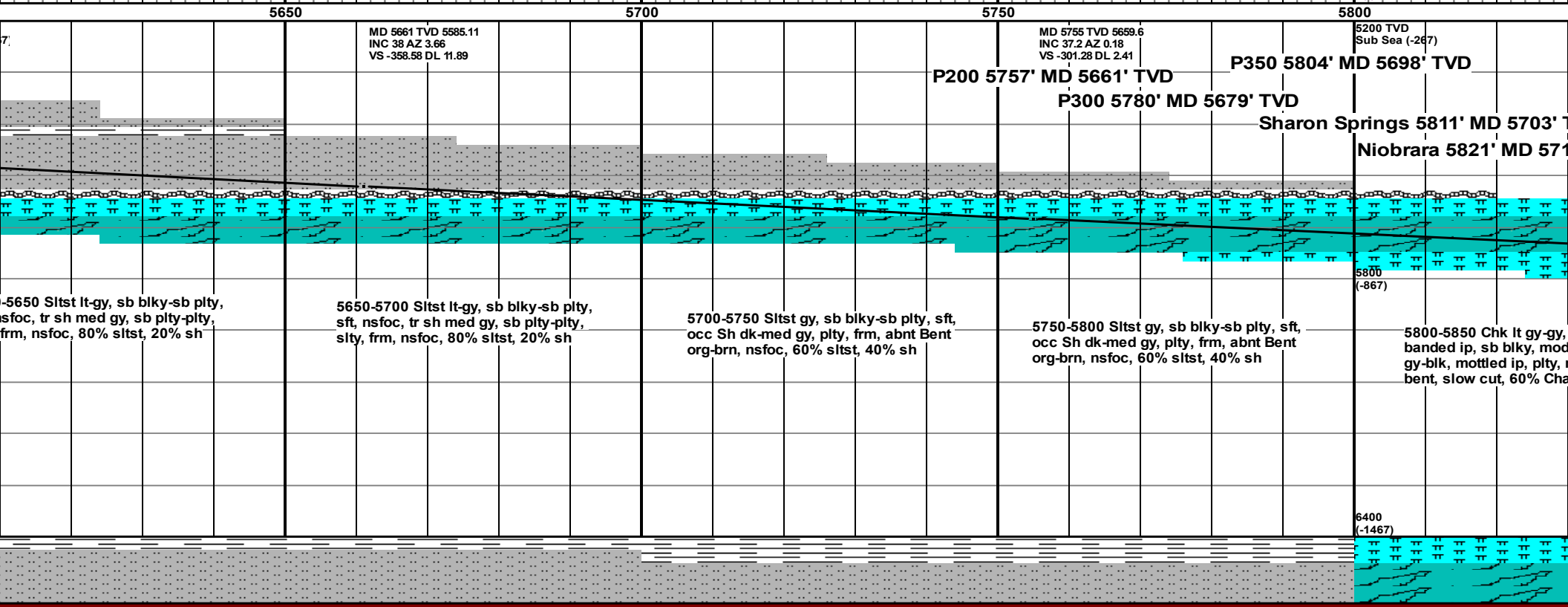
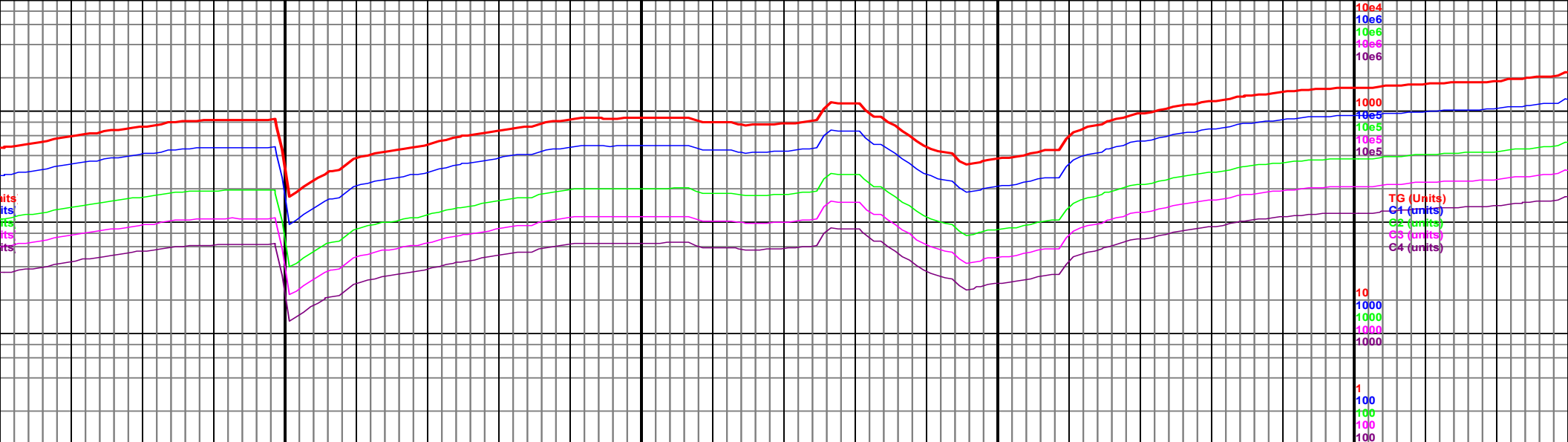
 Spotted
 Ques
 Dead

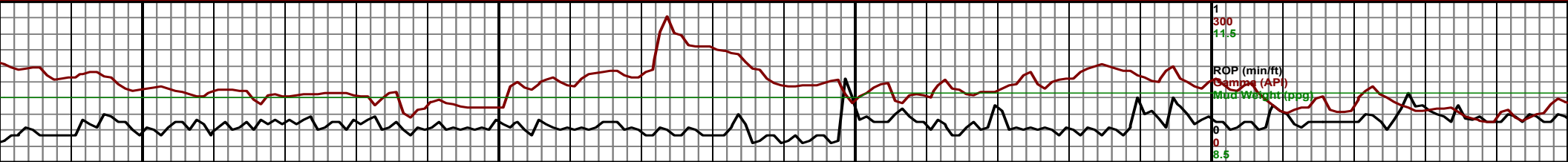
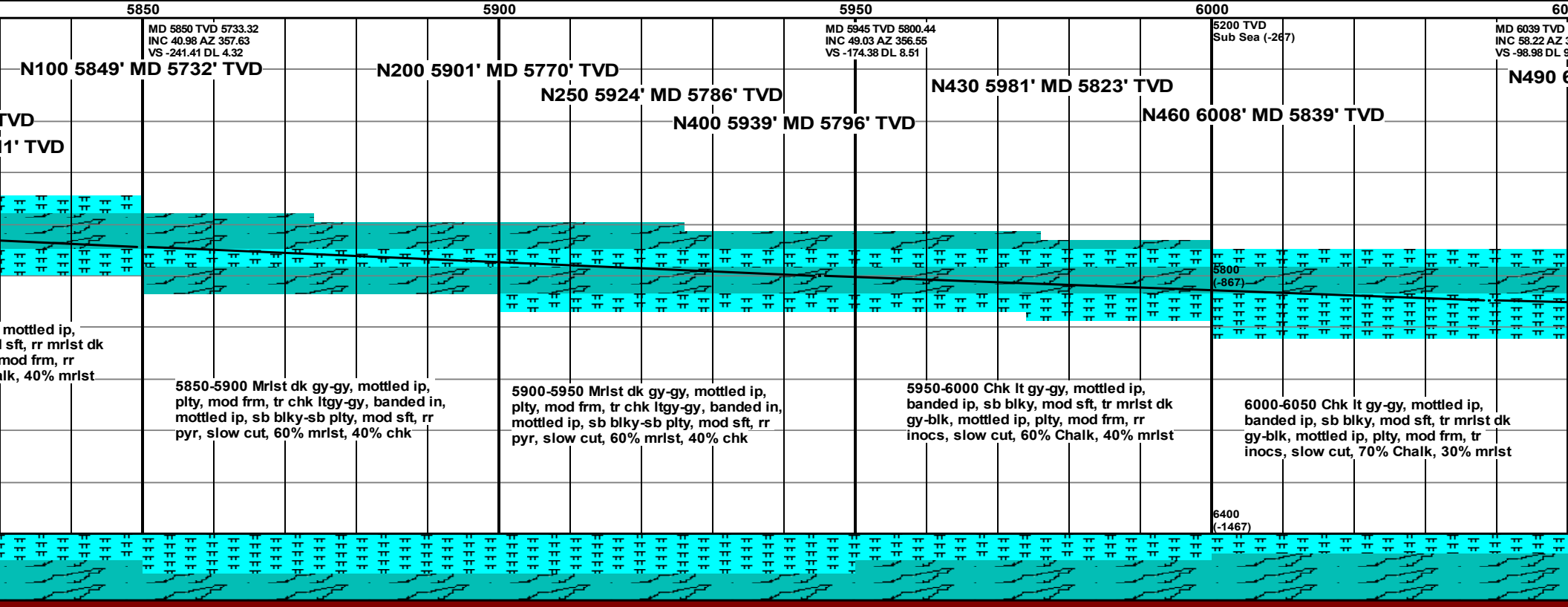
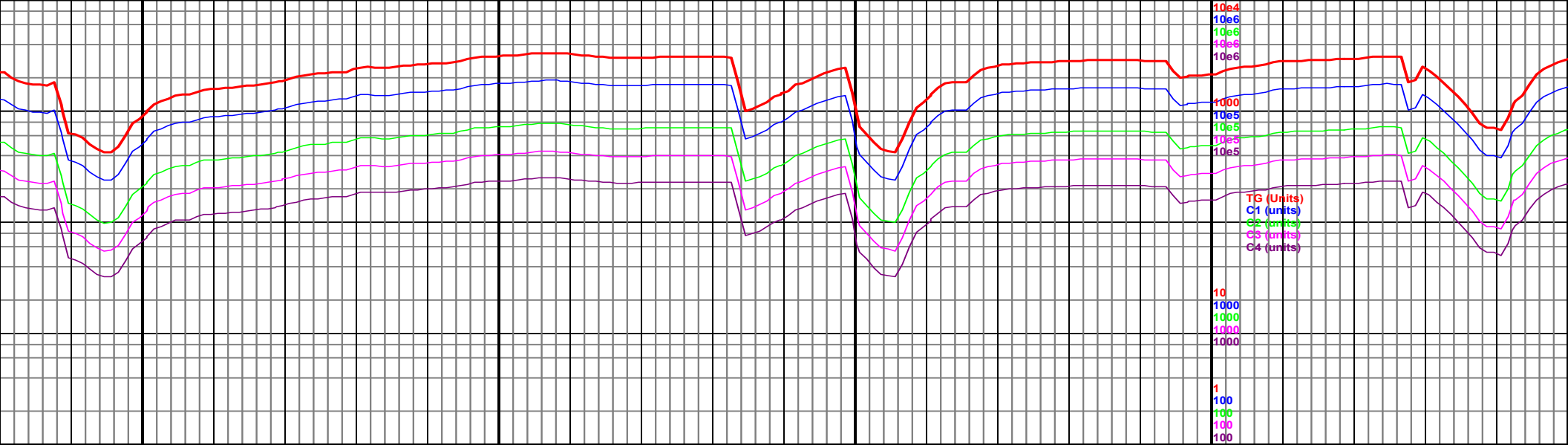
INTERVAL
 Core
 Dst

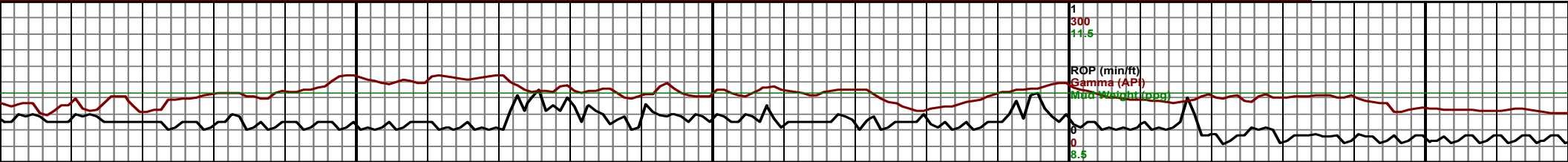
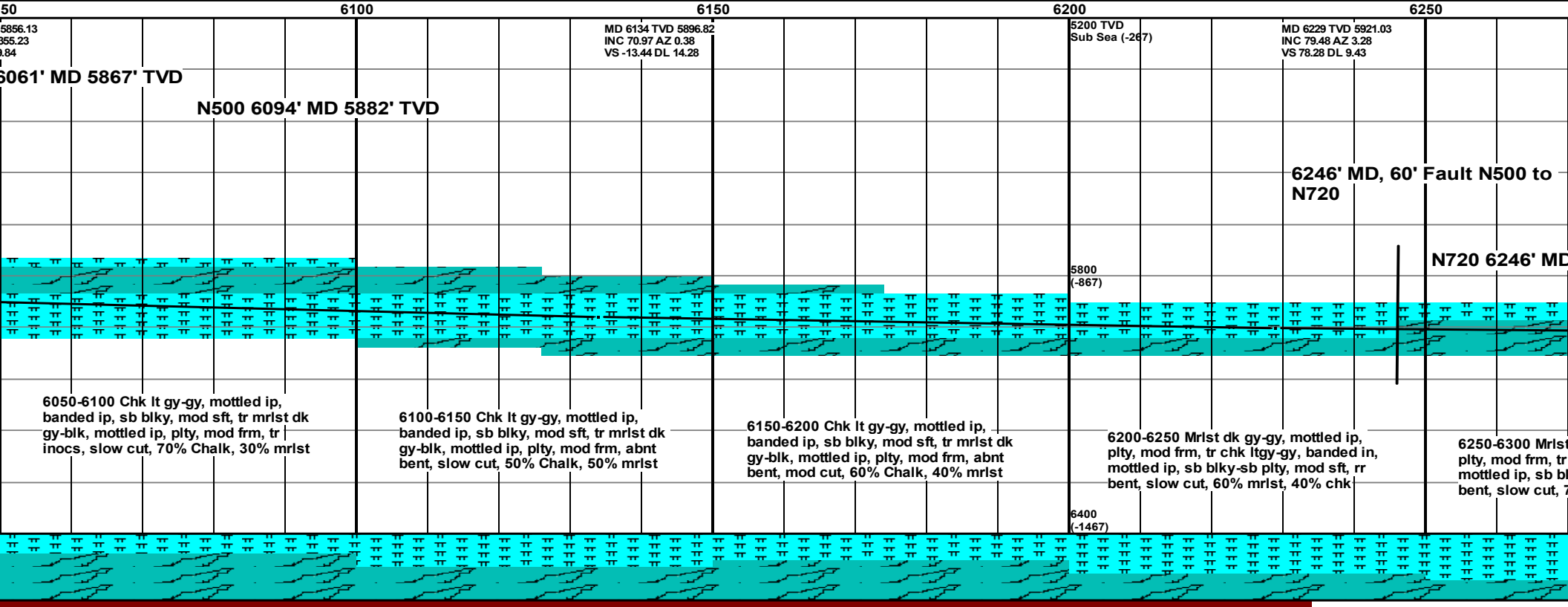
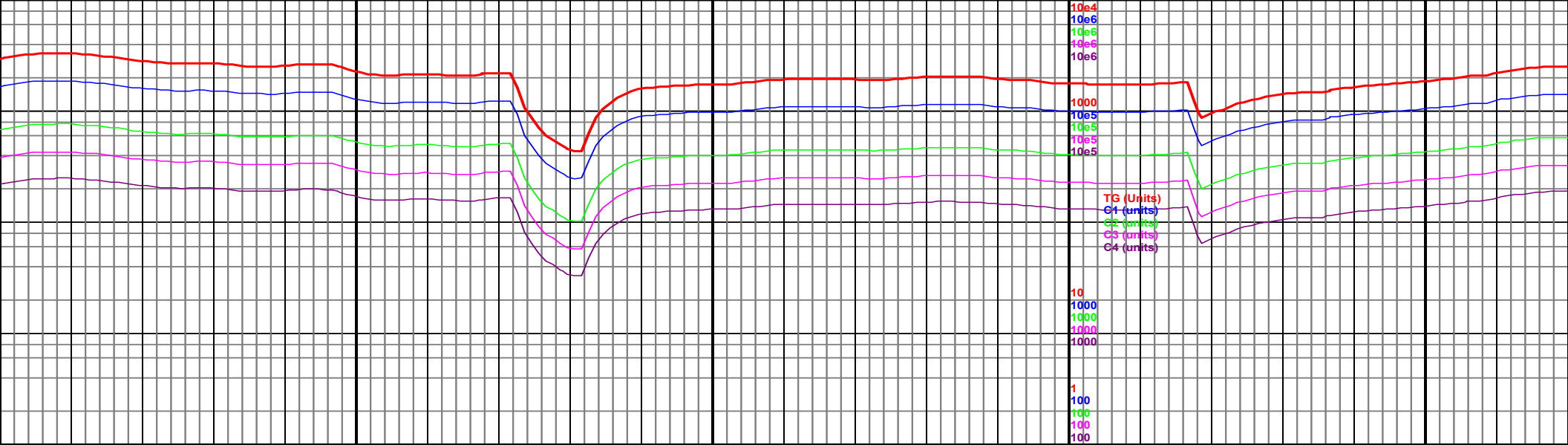
EVENT
 Rft
 Sidewall

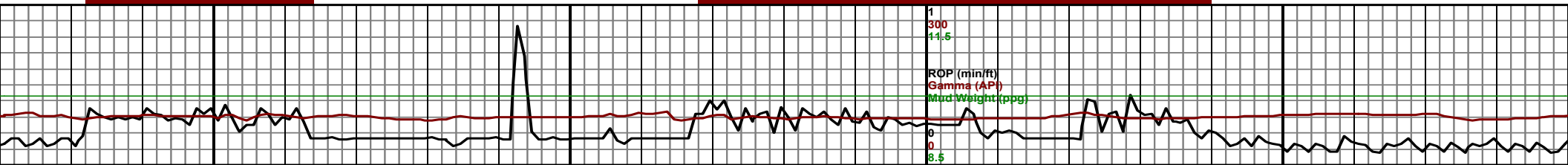
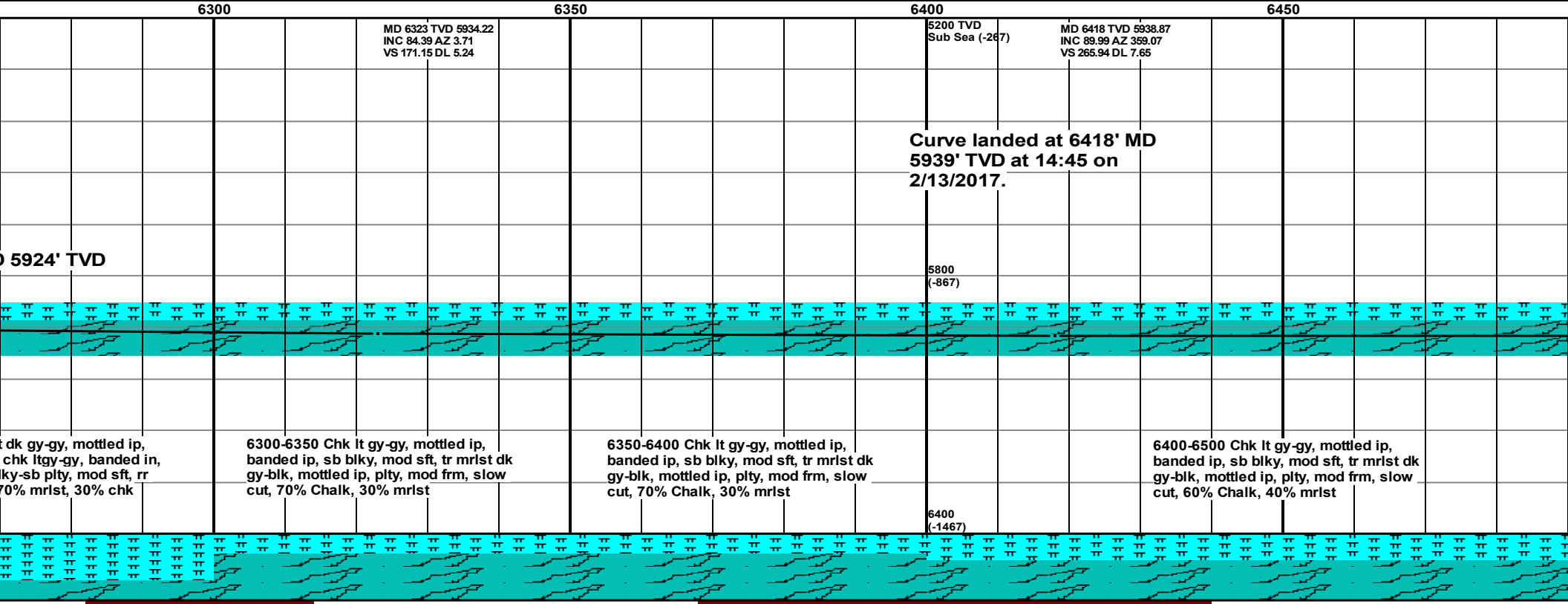
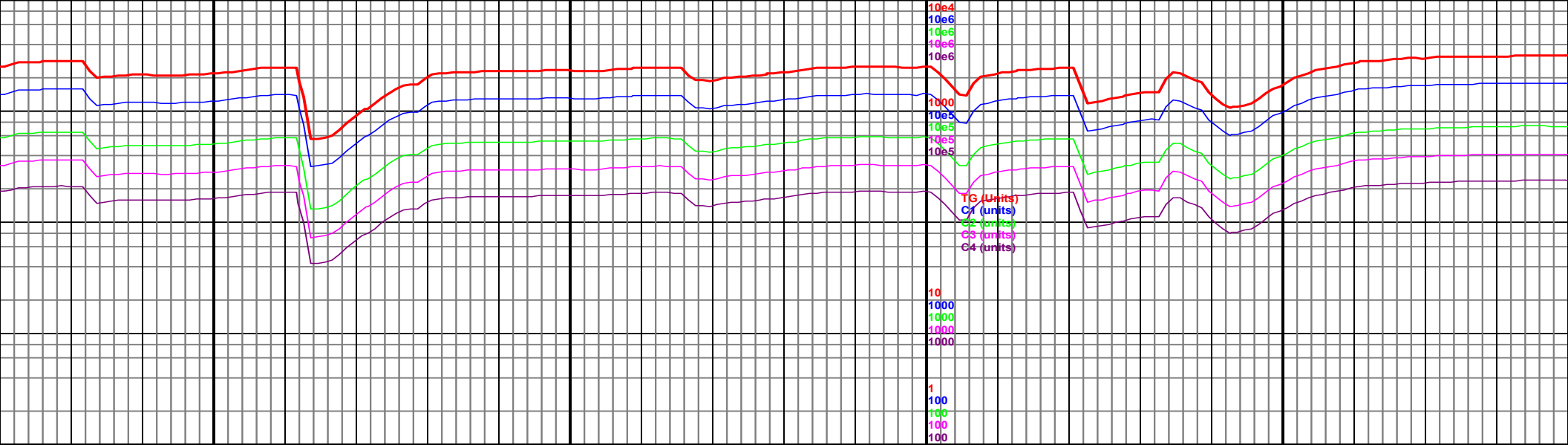


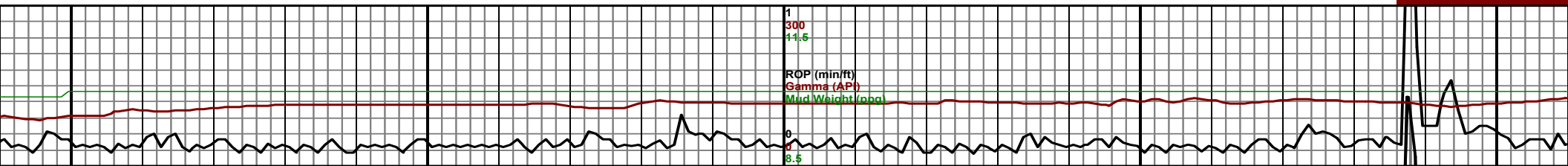
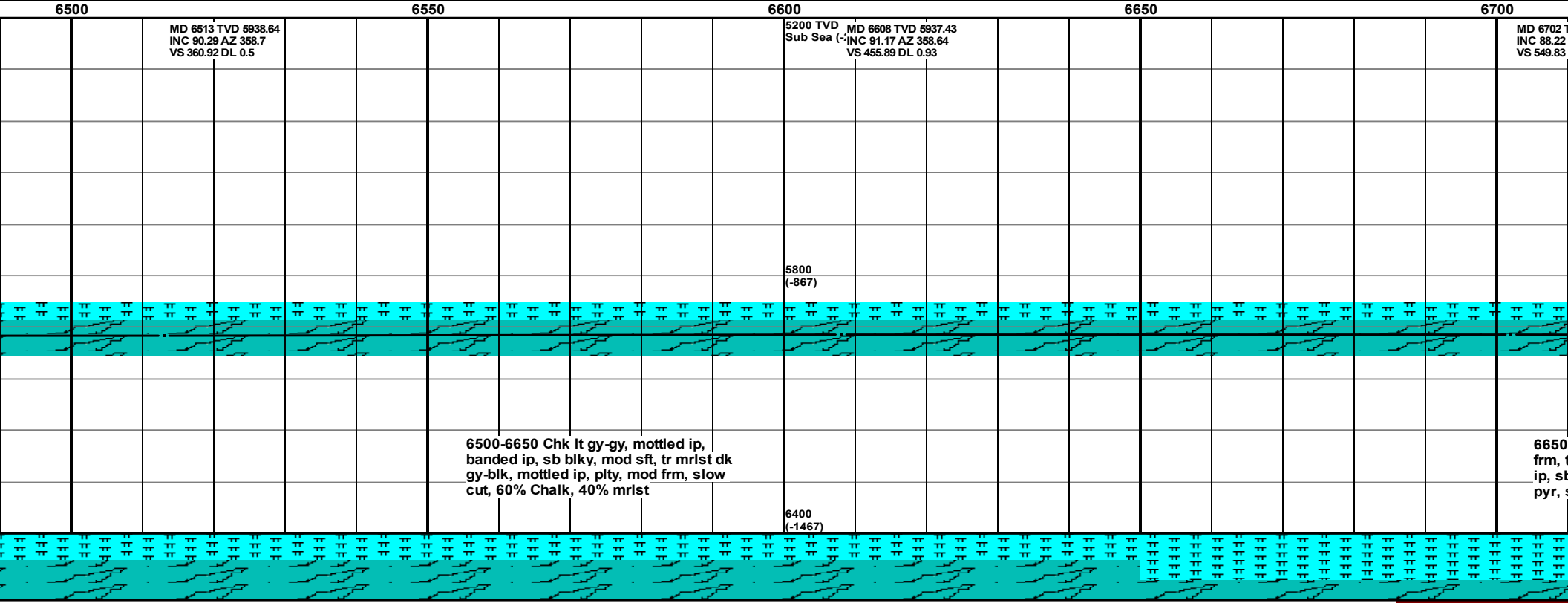
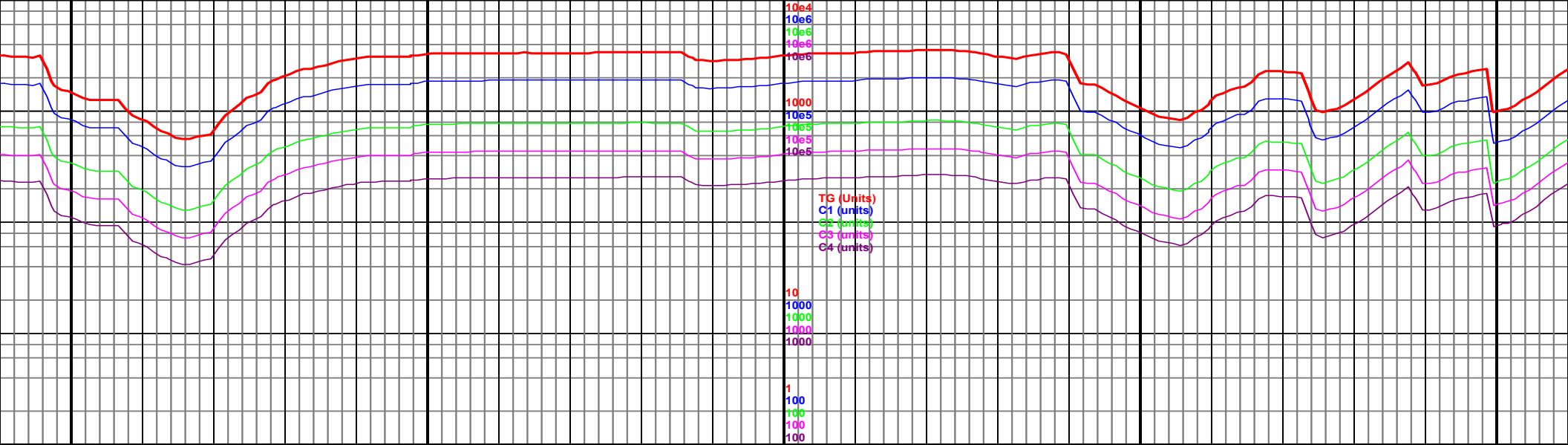


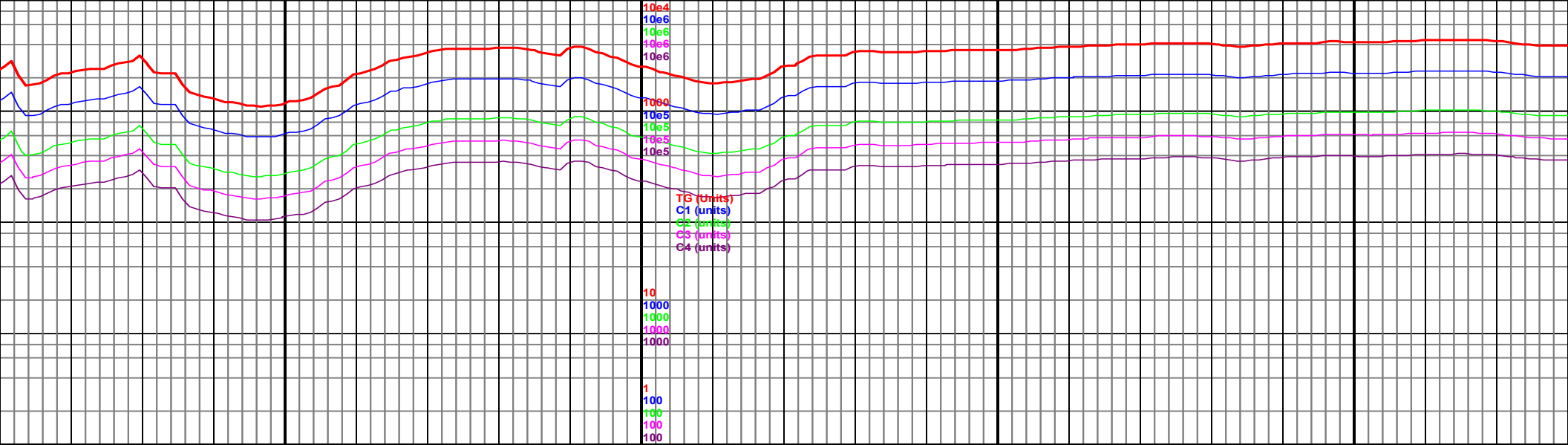












VD 5937.93
AZ 357.91
DL 3.23

6750

6800

MD 6797 TVD 5940.48
INC 88.7 AZ 357.69
VS 644.73 DL 0.56

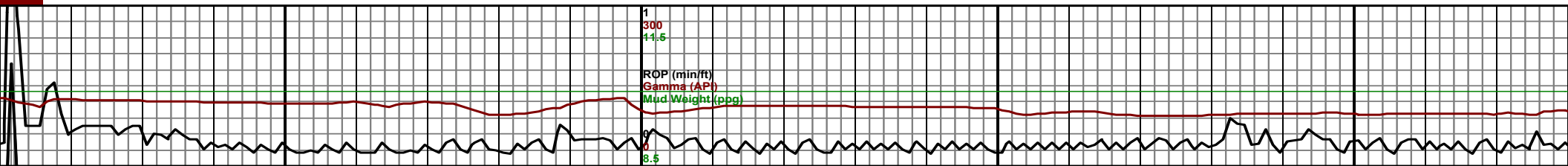
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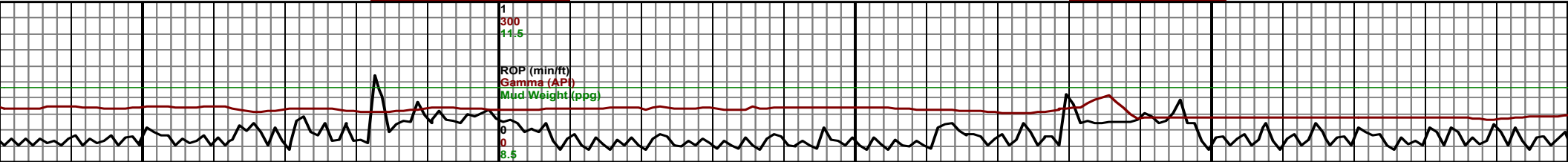
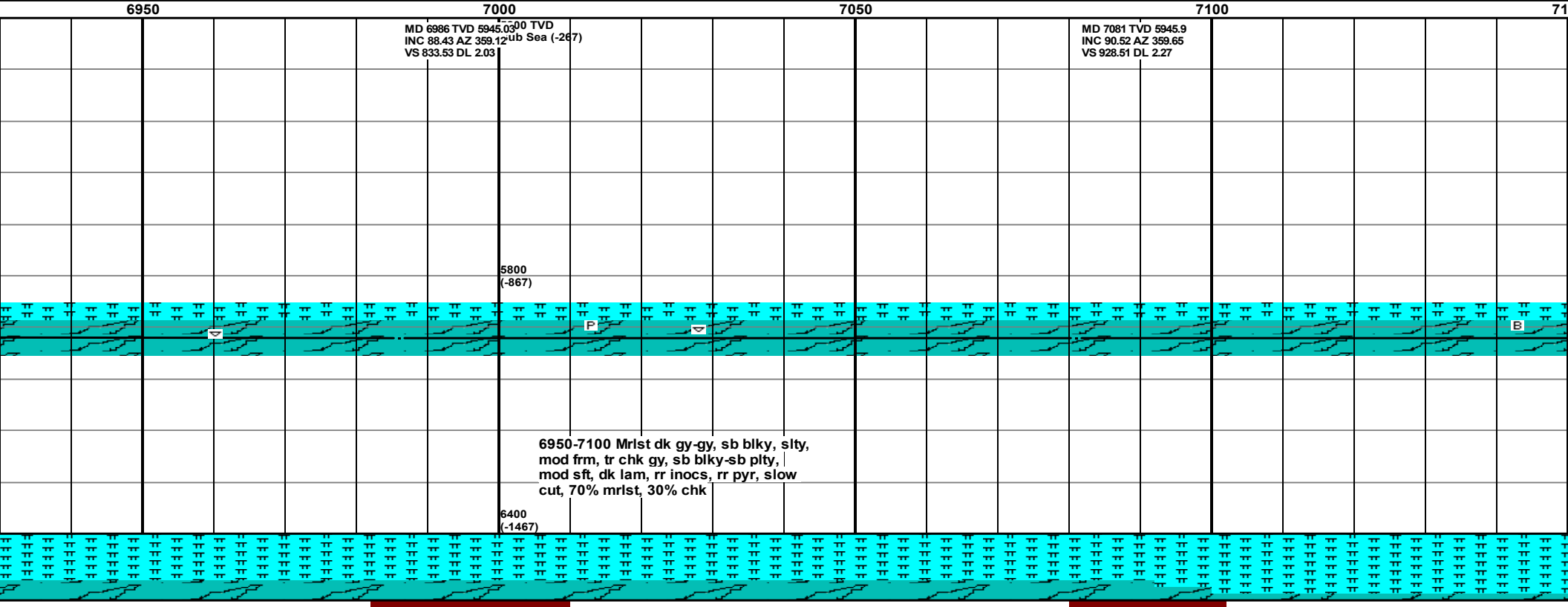
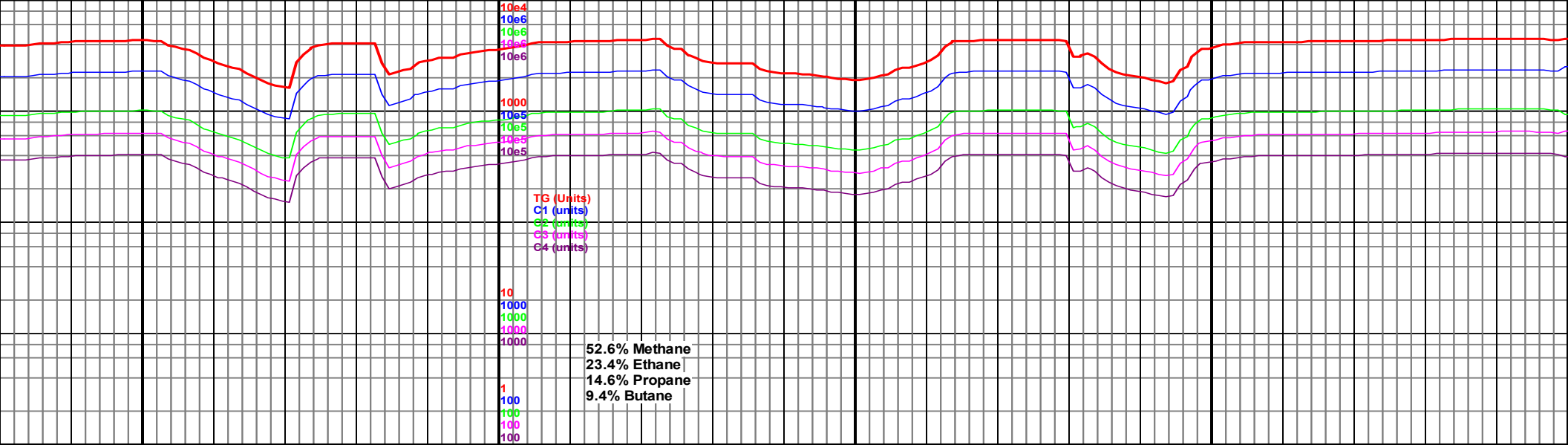
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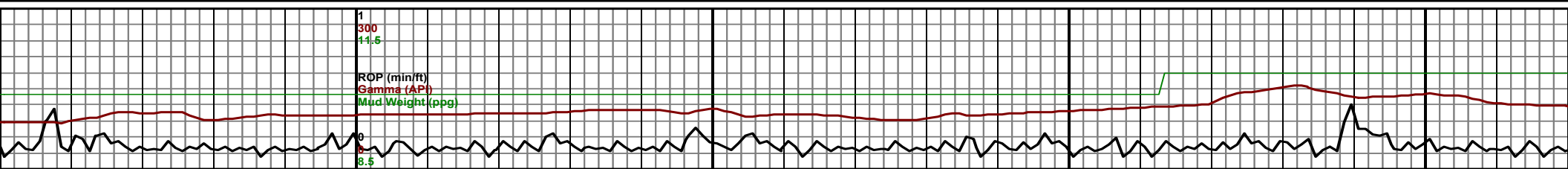
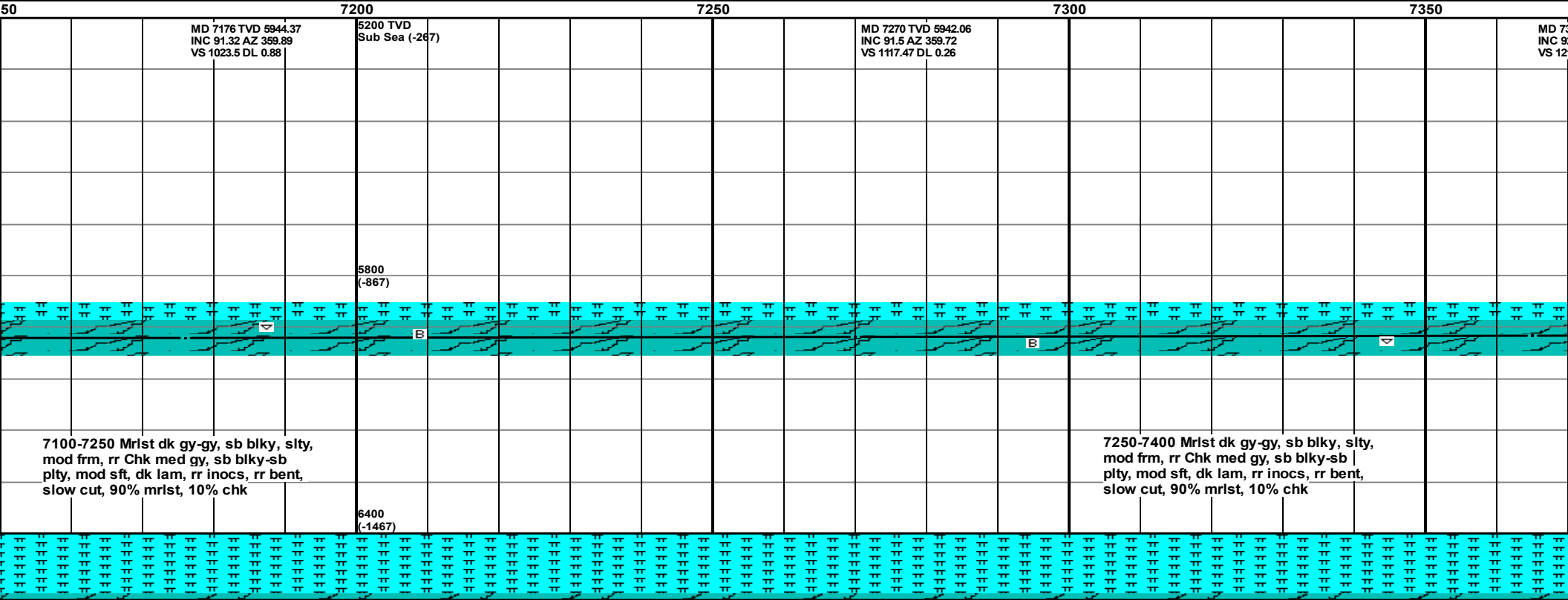
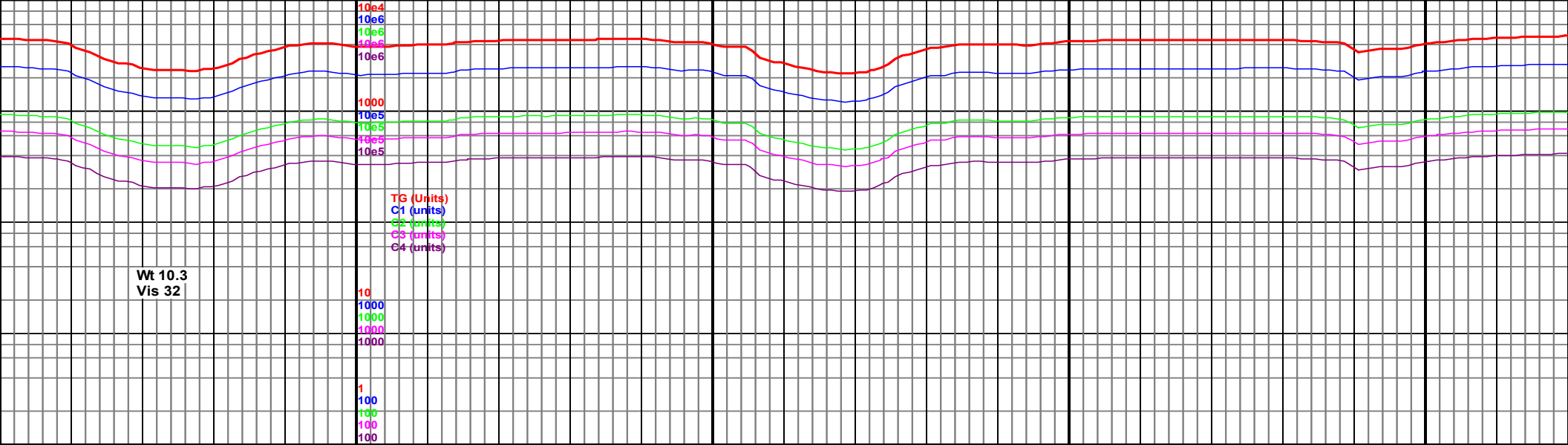
MD 6892 TVD 5942.66
INC 88.68 AZ 357.23
VS 739.61 DL 0.47

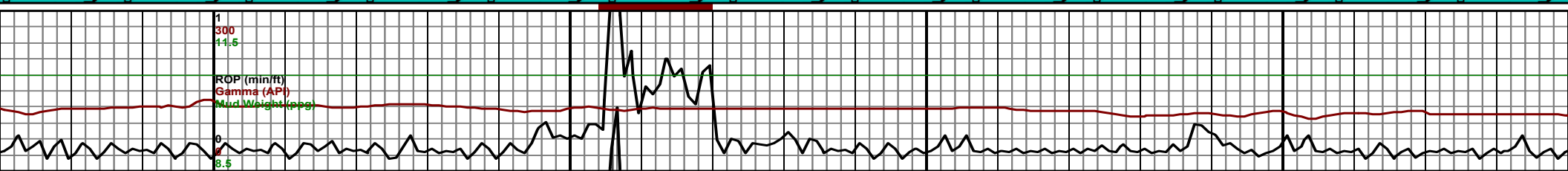
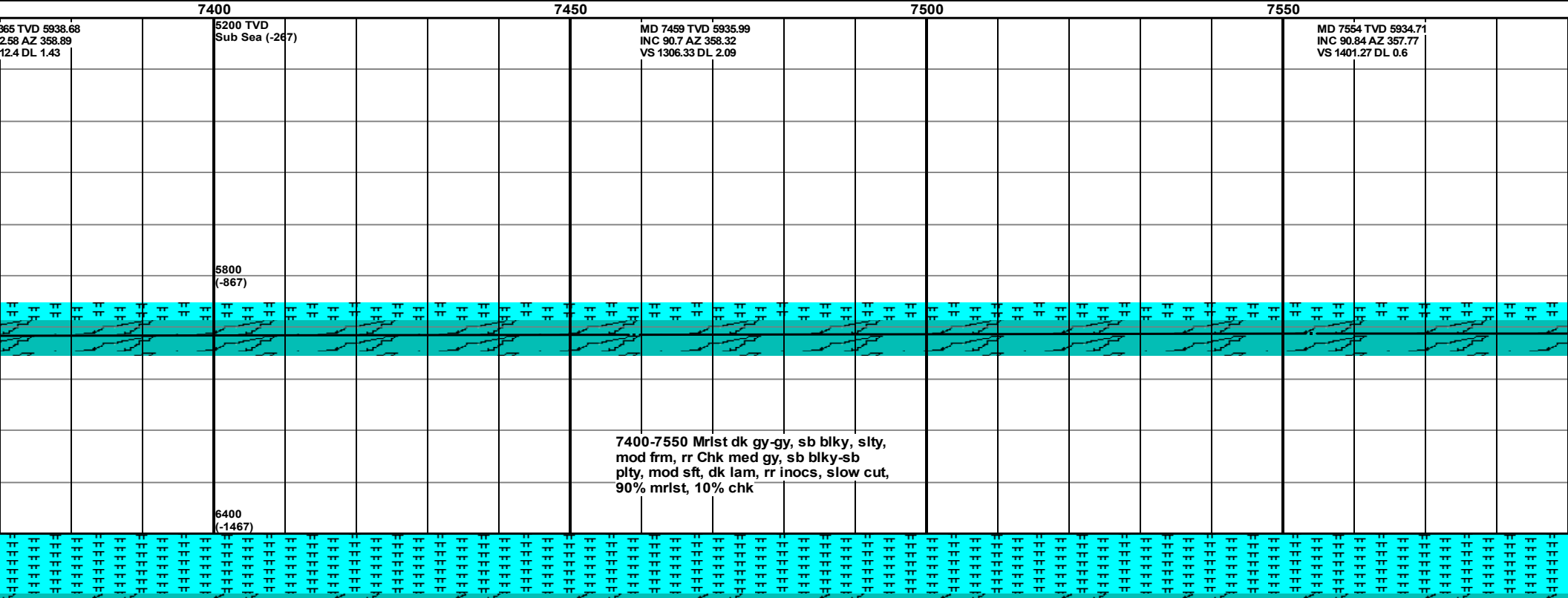
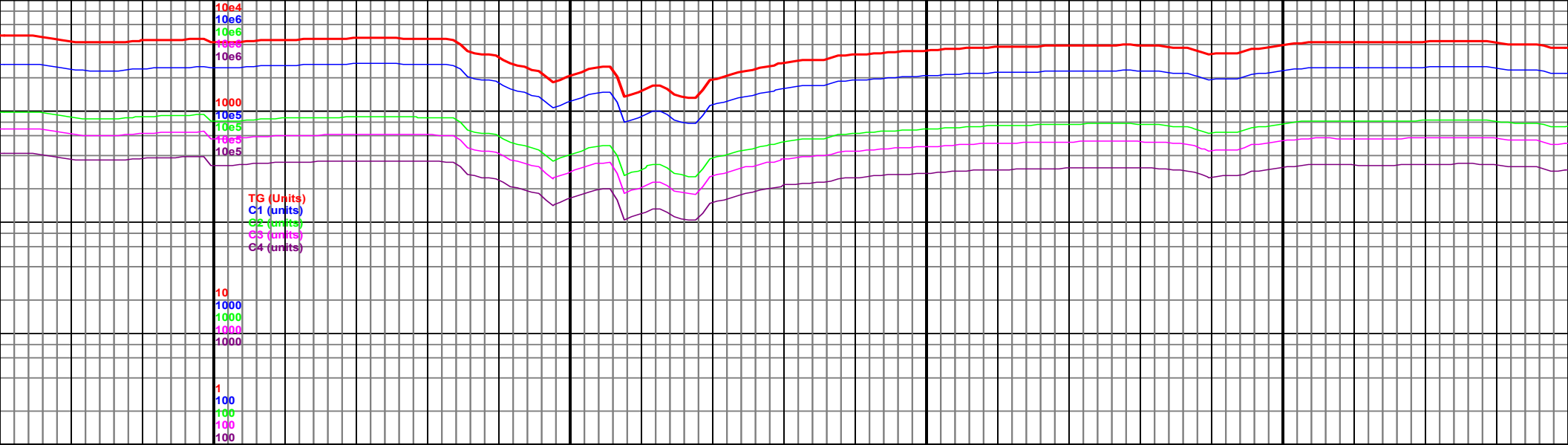
6800 Mrlst dk gy-gy, plty, mod
r chk ltgy-gy, banded in, mottled
b blkly-sb plty, mod sft, rr inocs, rr
slow cut, 70% mrlst, 30% chk

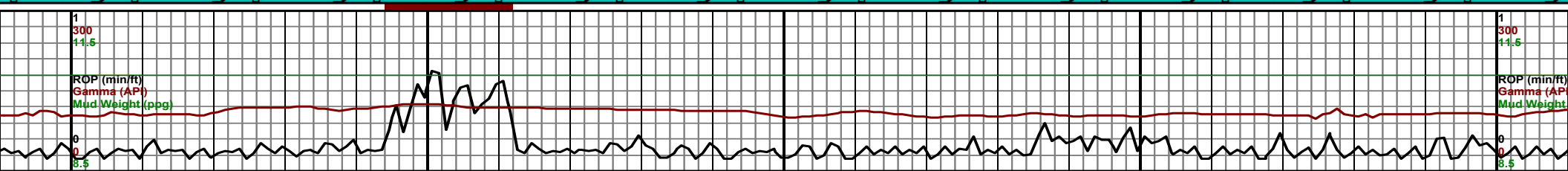
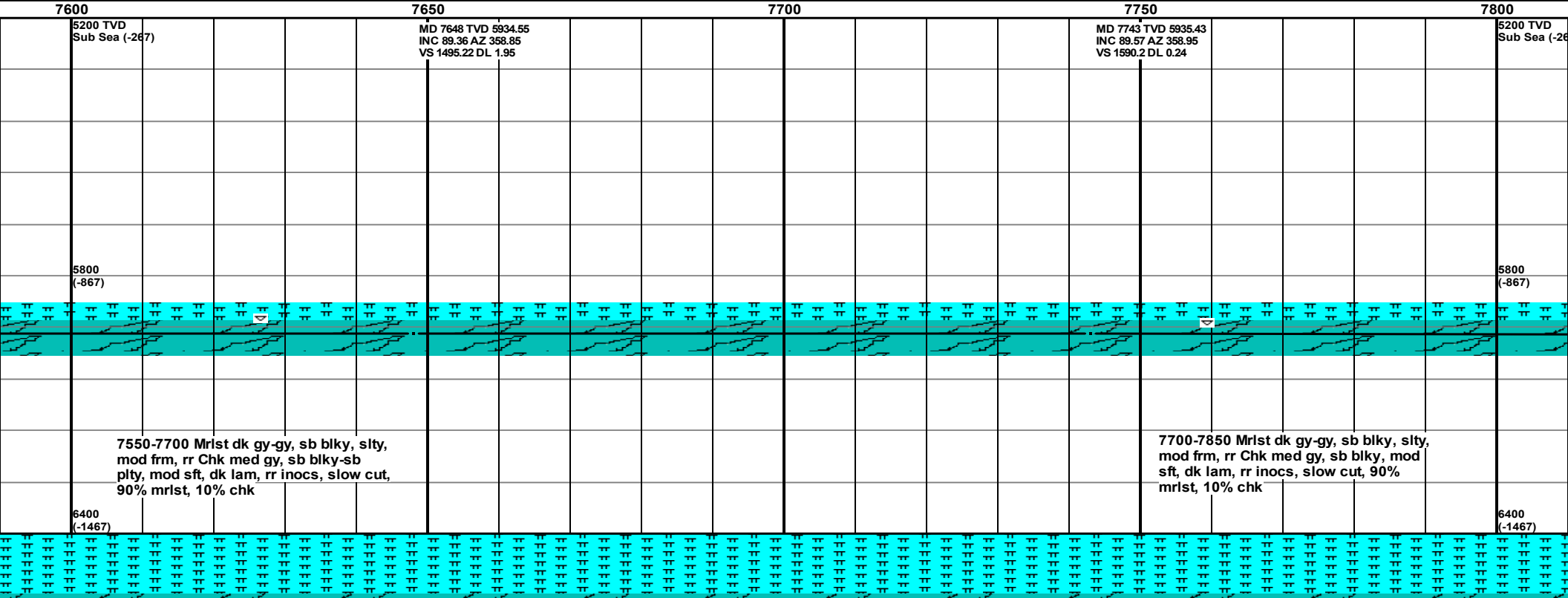
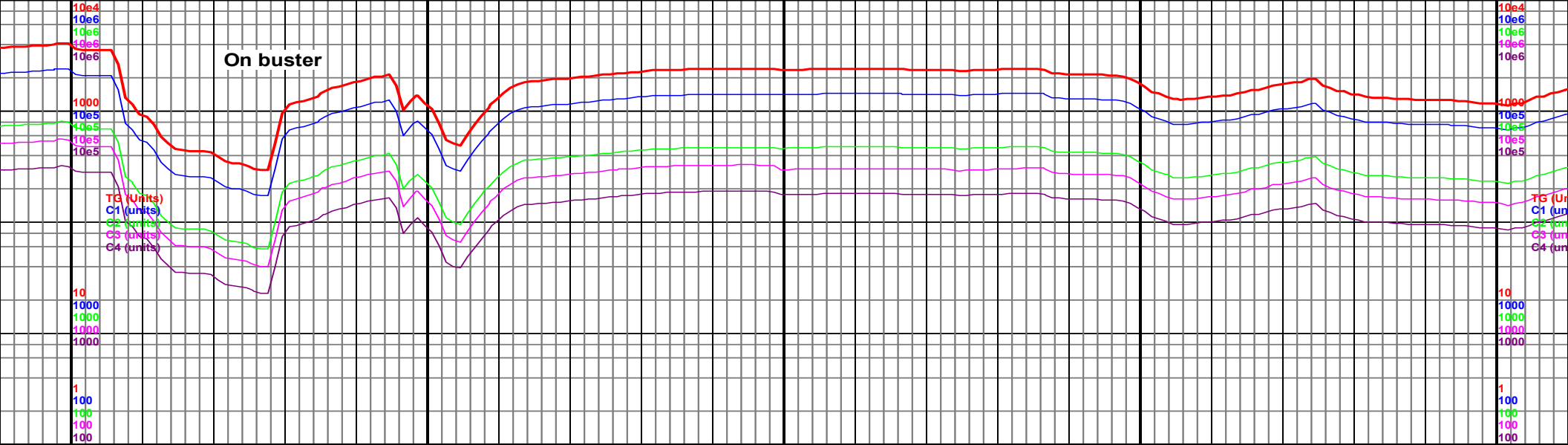
6800-6950 Mrlst dk gy-gy, plty, mod
frm, tr chk ltgy-gy, banded in, mottled
ip, sb blkly-sb plty, mod sft, rr inocs, rr
pyr, slow cut, 70% mrlst, 30% chk

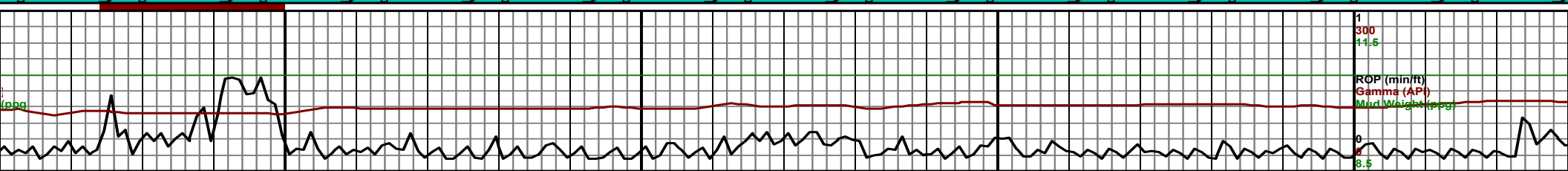
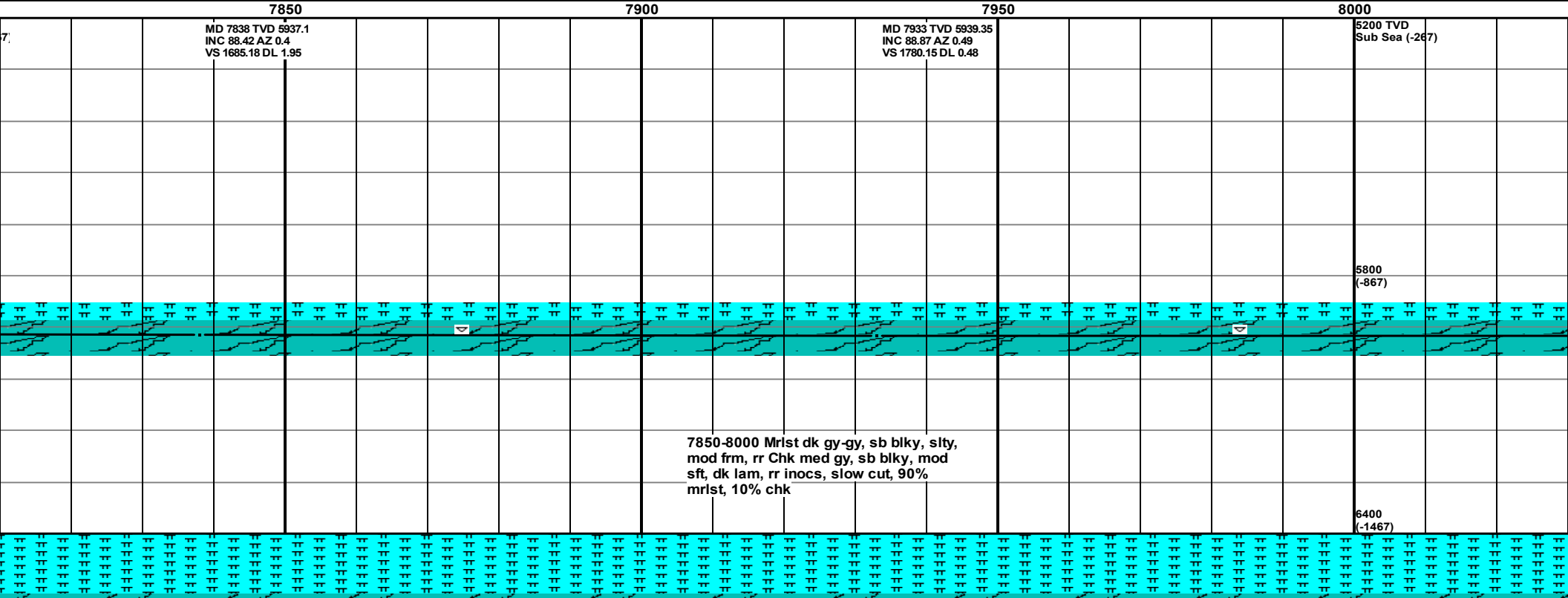
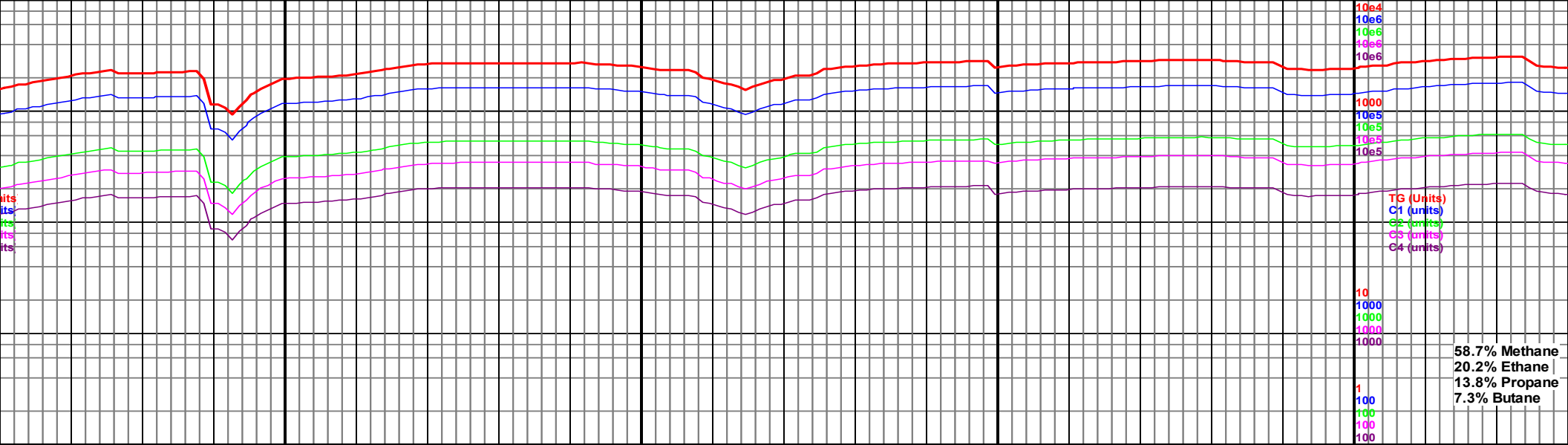


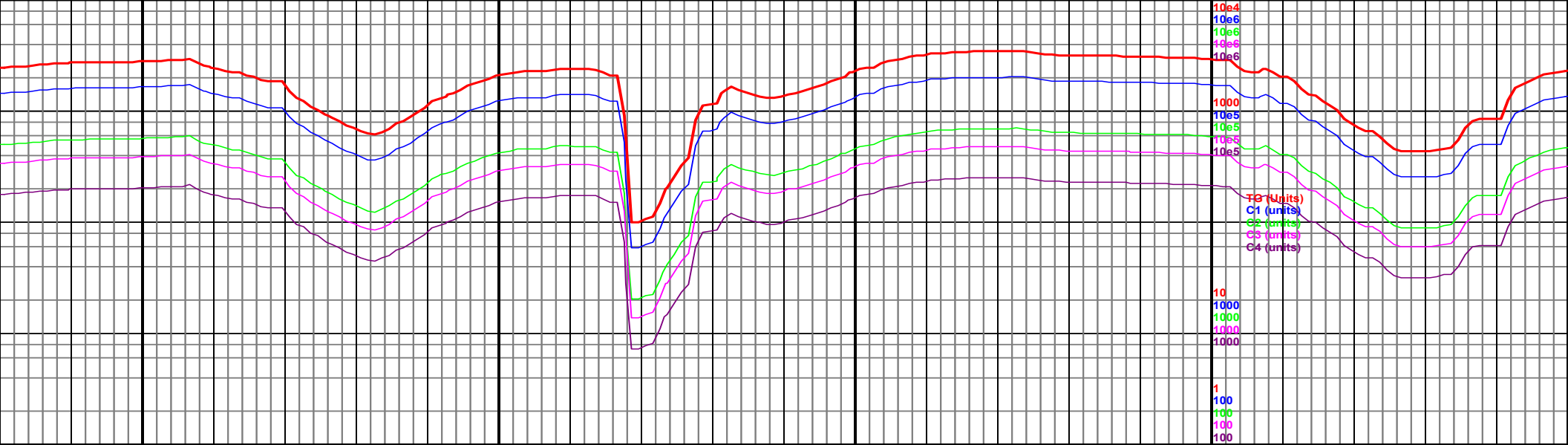












MD 8038 TVD 5940.91
INC 89.42 AZ 0.44
VS 1885.13 DL 0.53

MD 8122 TVD 5942.45
INC 88.48 AZ 1.54
VS 1969.1 DL 1.72

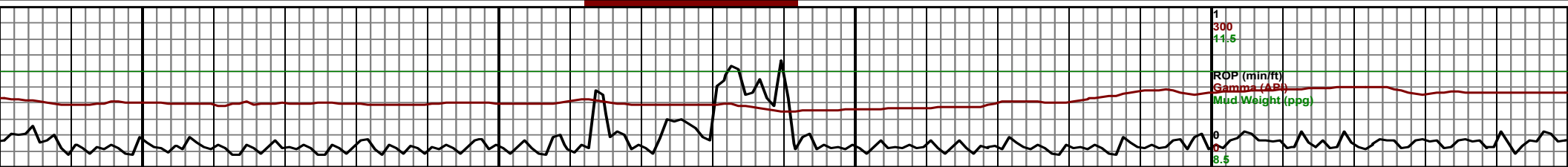
5200 TVD
Sub Sea (-267)

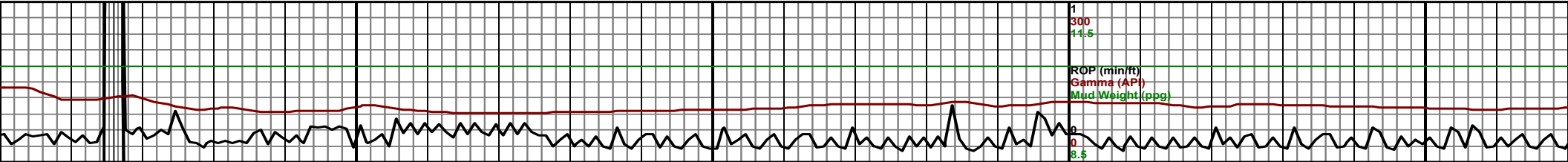
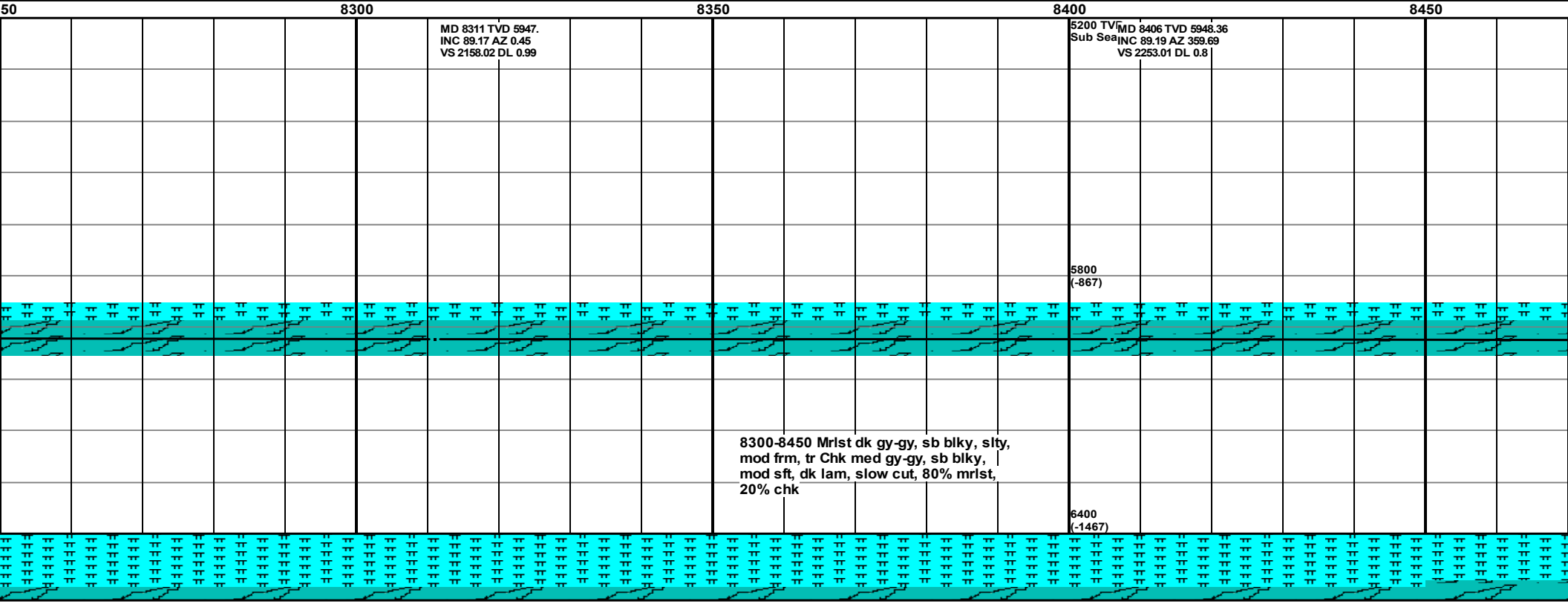
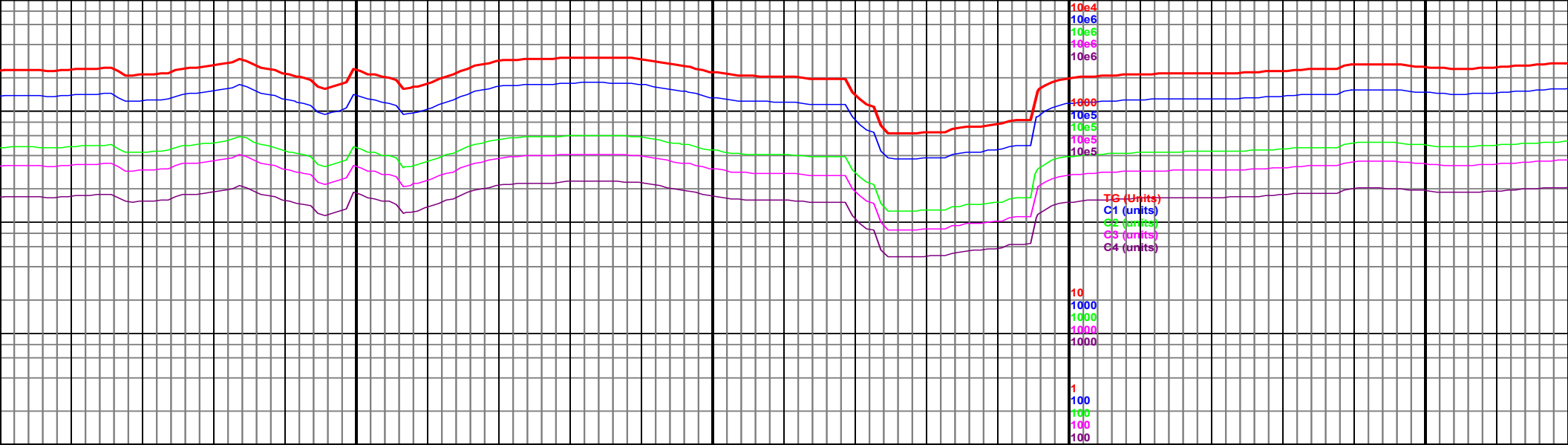
MD 8217 TVD 5945.02
INC 88.42 AZ 1
VS 2064.05 DL 0.57

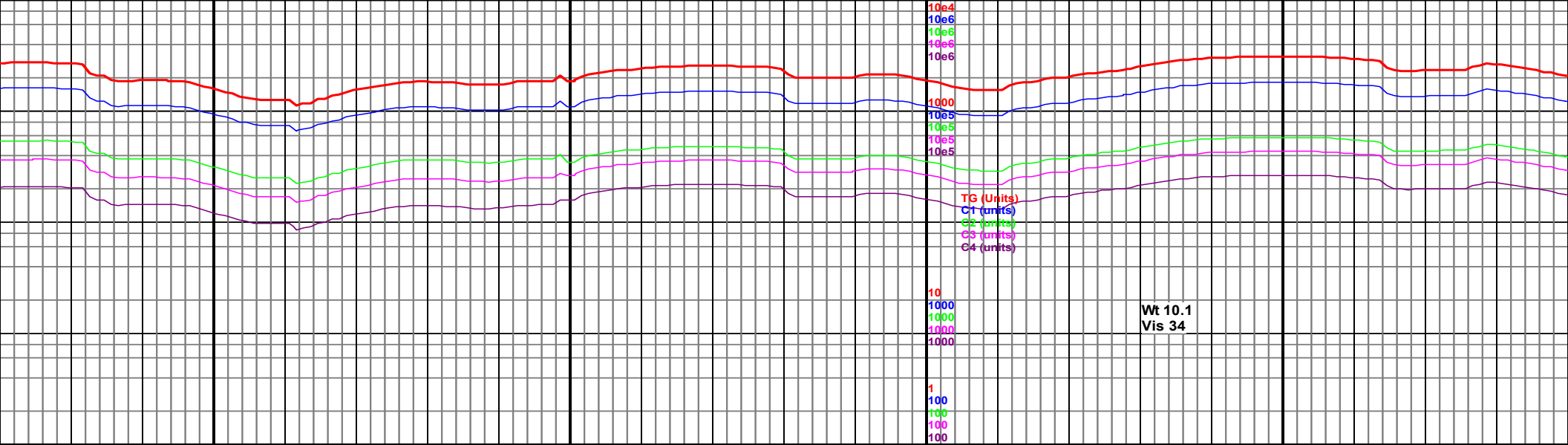
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mod frm, rr Chk med gy-dk brn, sb
blk, mod sft, dk lam, rr inocs, slow
cut, 90% mrlst, 10% chk

8150-8300 Mrlst dk gy-gy, sb blk, slty,
mod frm, tr Chk med gy-gy, sb blk,
mod sft, dk lam, slow cut, 80% mrlst,
20% chk

6400
(-1467)







8500

8550

8600

8650

MD 8501 TVD 5949.61
INC 89.3 AZ 359.68
VS 2348. DL 0.12

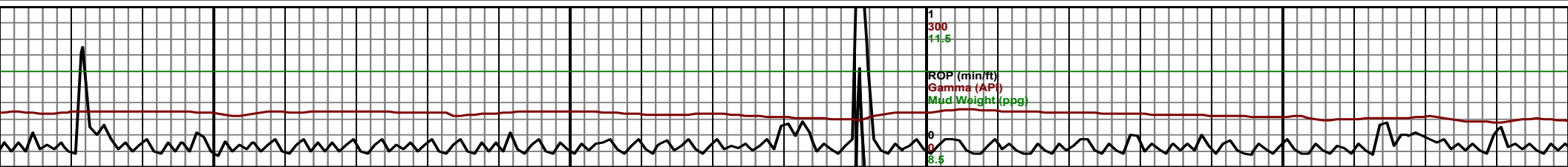
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INC 89.47 AZ 359.07⁽¹⁾
VS 2441.99 DL 0.67

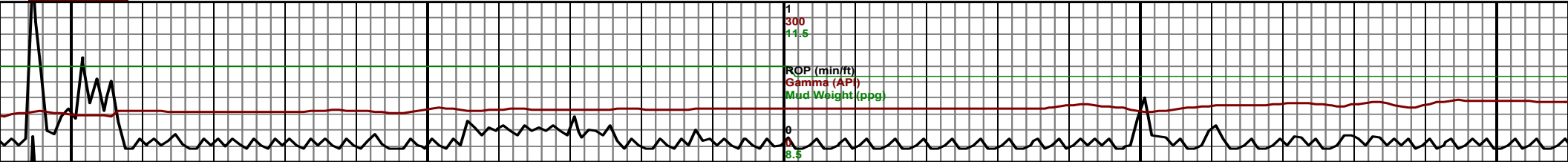
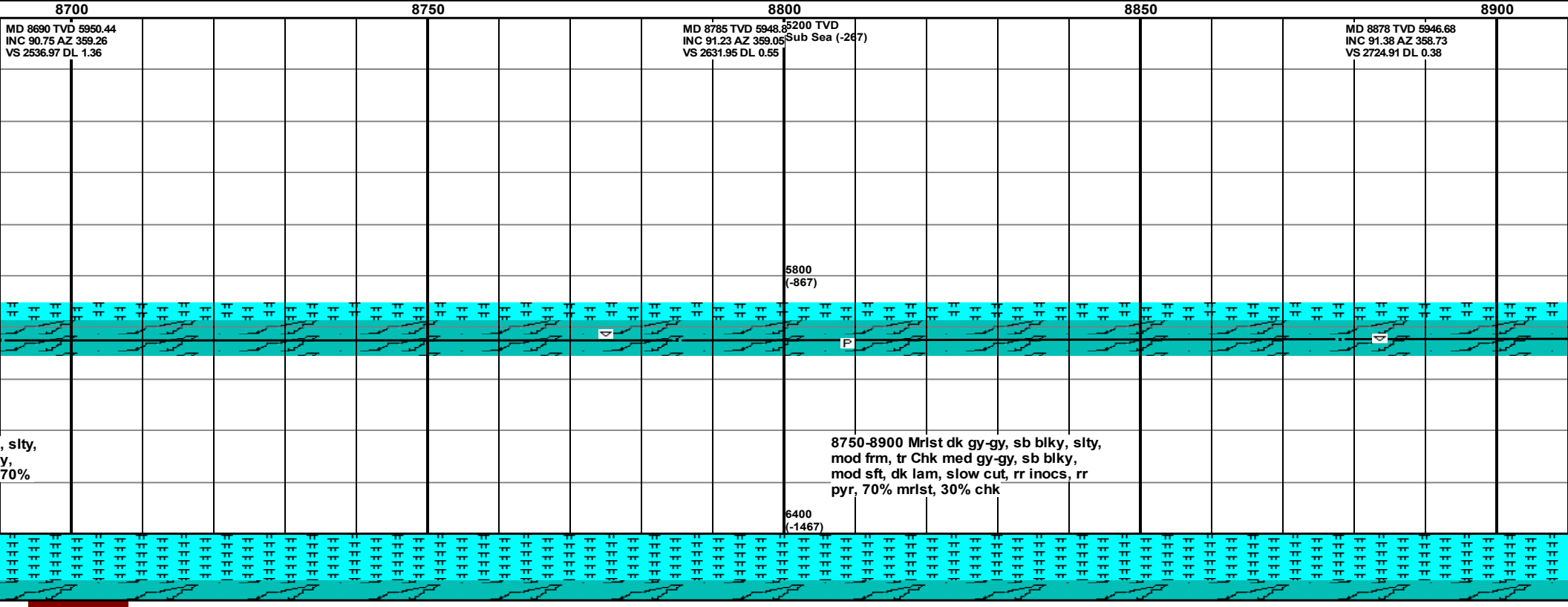
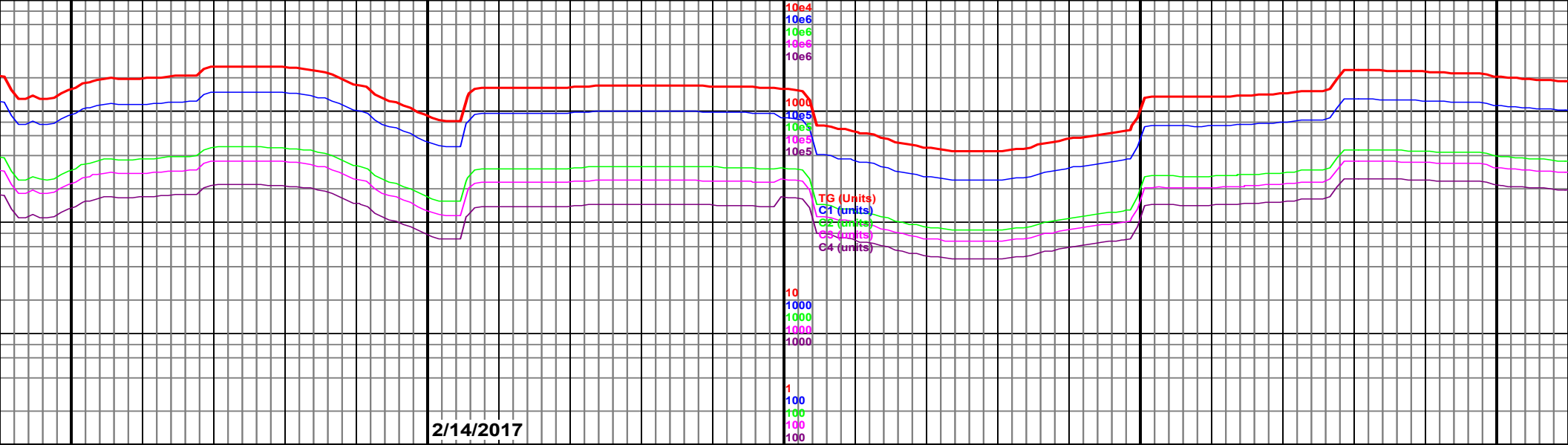
5800
(-867)

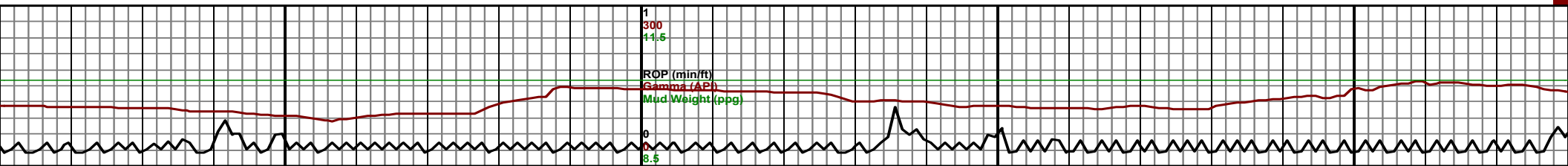
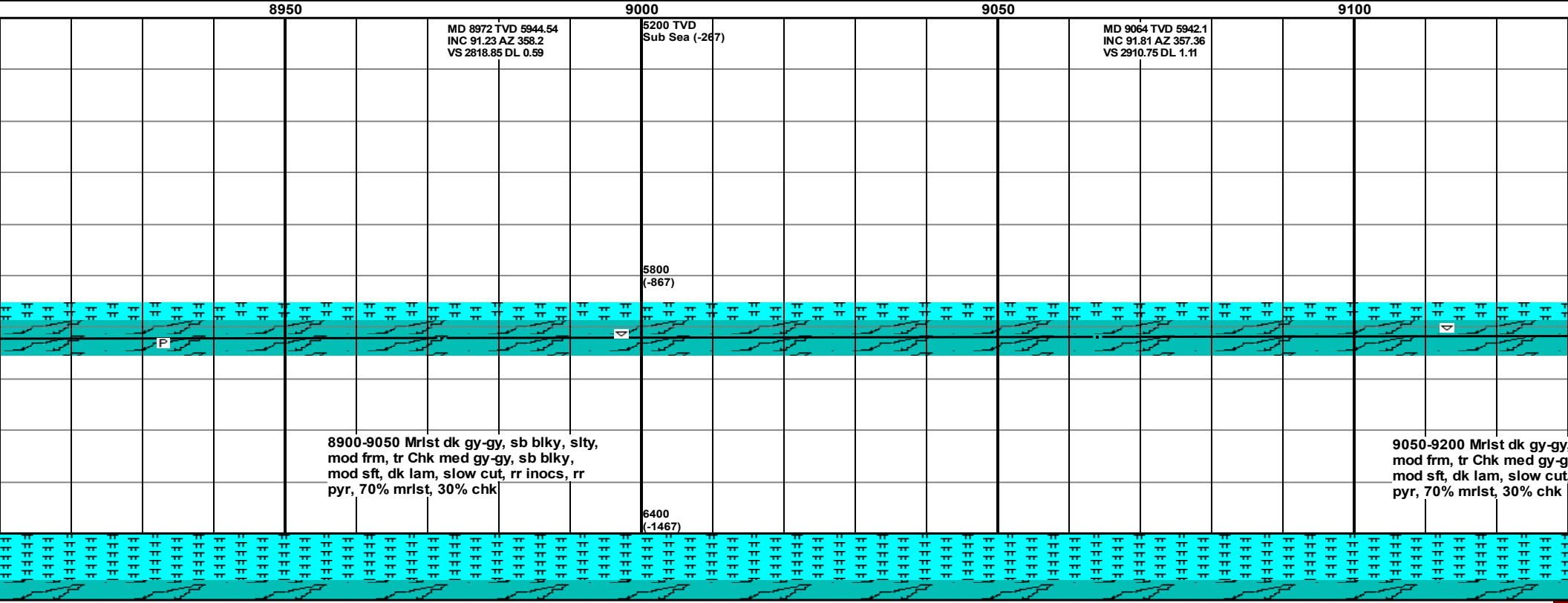
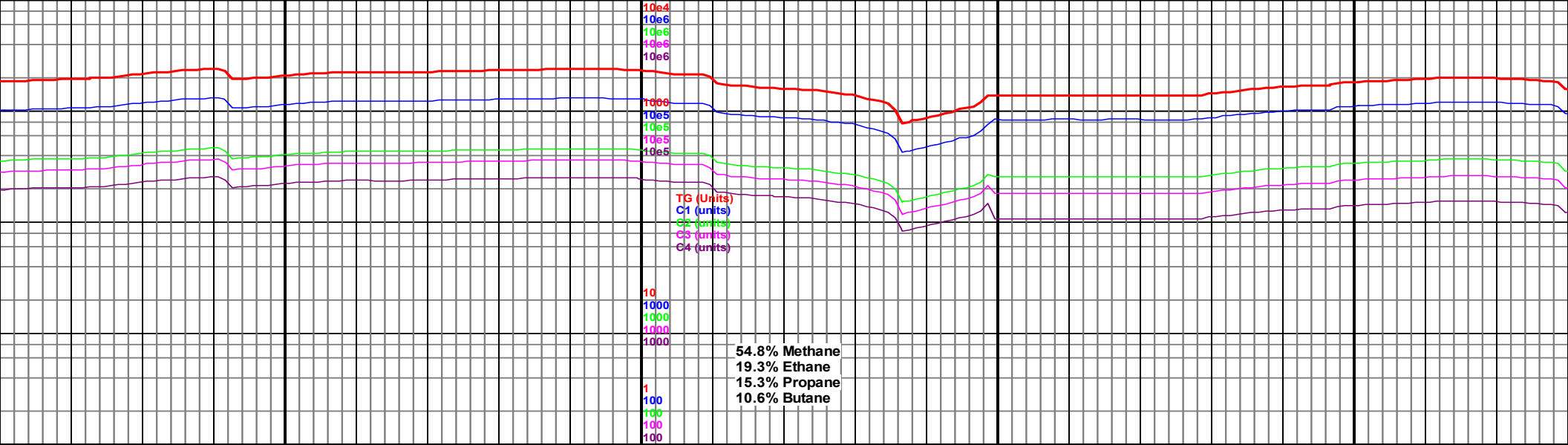
8450-8600 Mrlst dk gy-gy, sb blk, slty,
mod frm, tr Chk med gy-gy, sb blk,
mod sft, dk lam, slow cut, rr pyr, 70%
mrlst, 30% chk

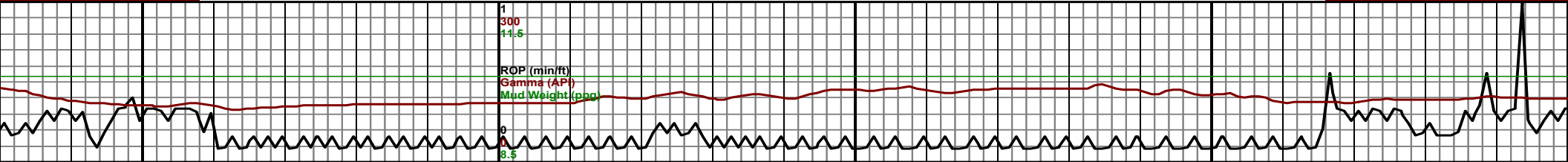
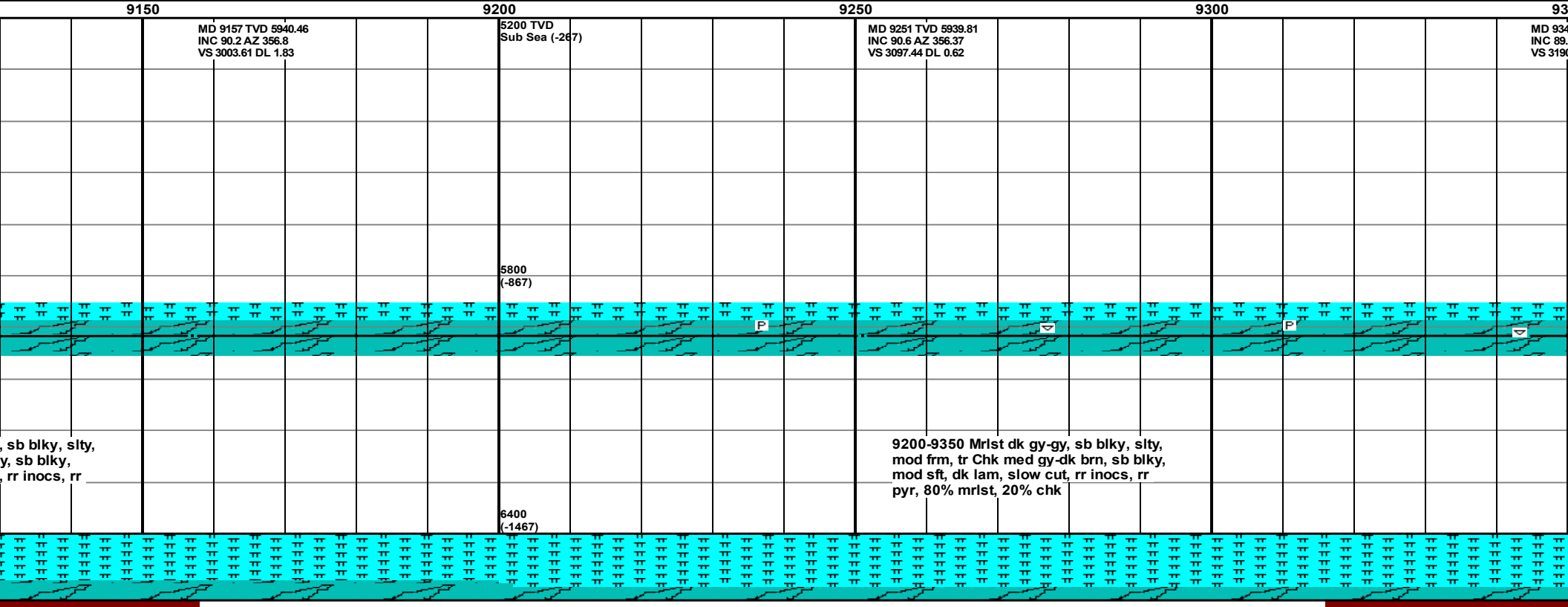
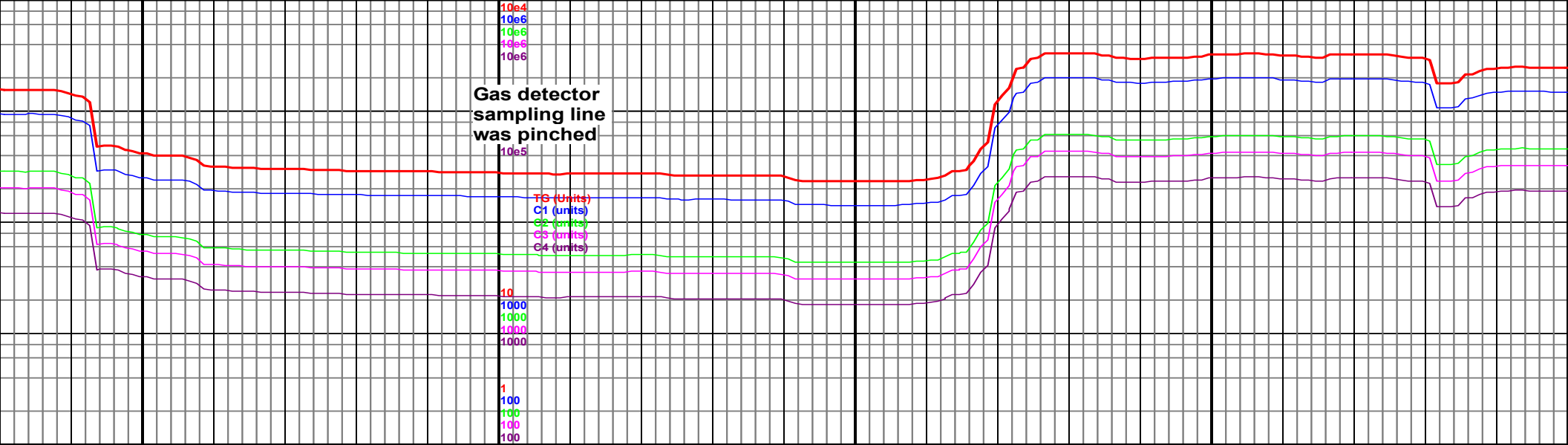
8600-8750 Mrlst dk gy-gy, sb blk
mod frm, tr Chk med gy-gy, sb blk
mod sft, dk lam, slow cut, rr pyr,
mrlst, 30% chk

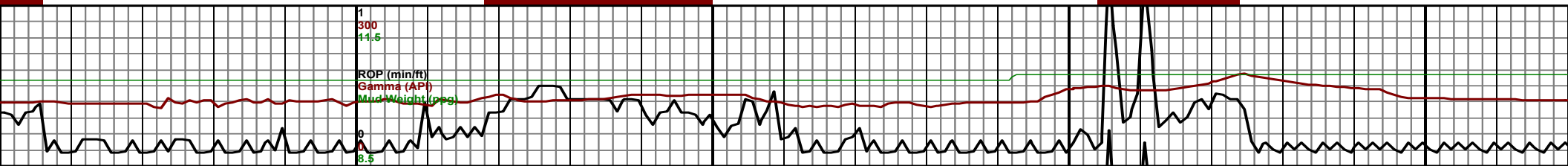
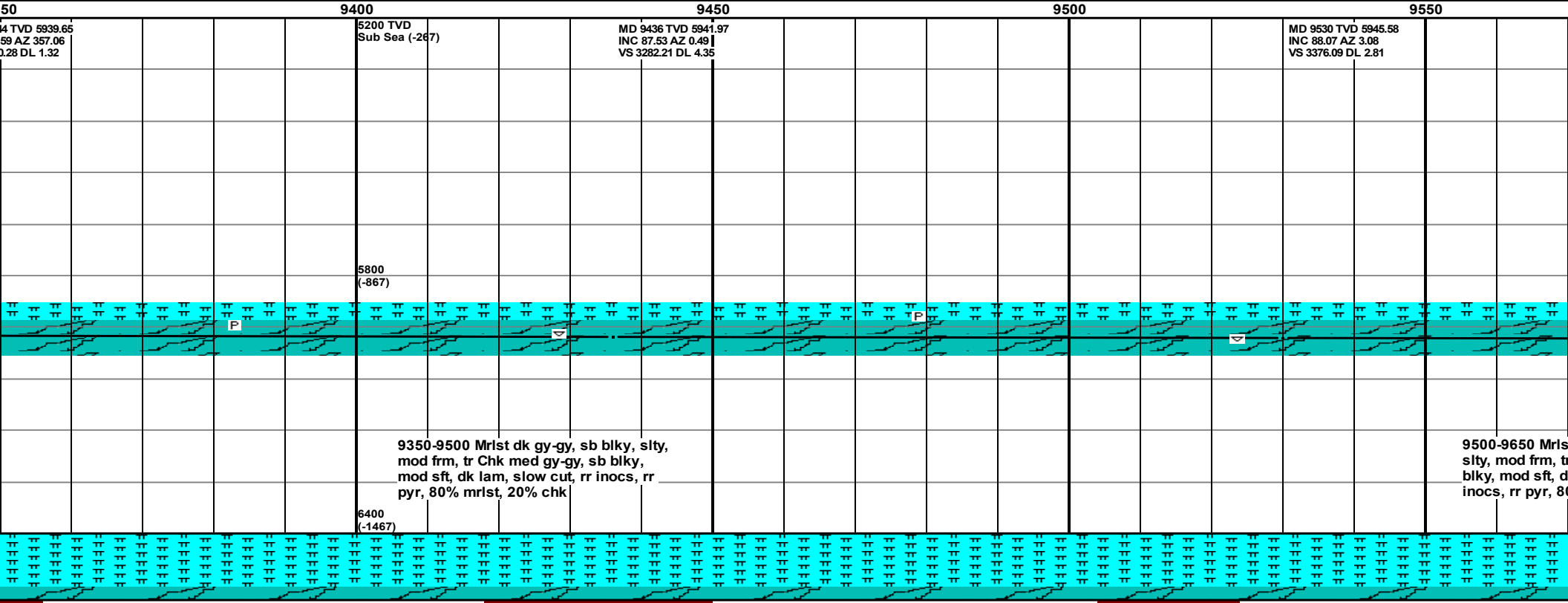
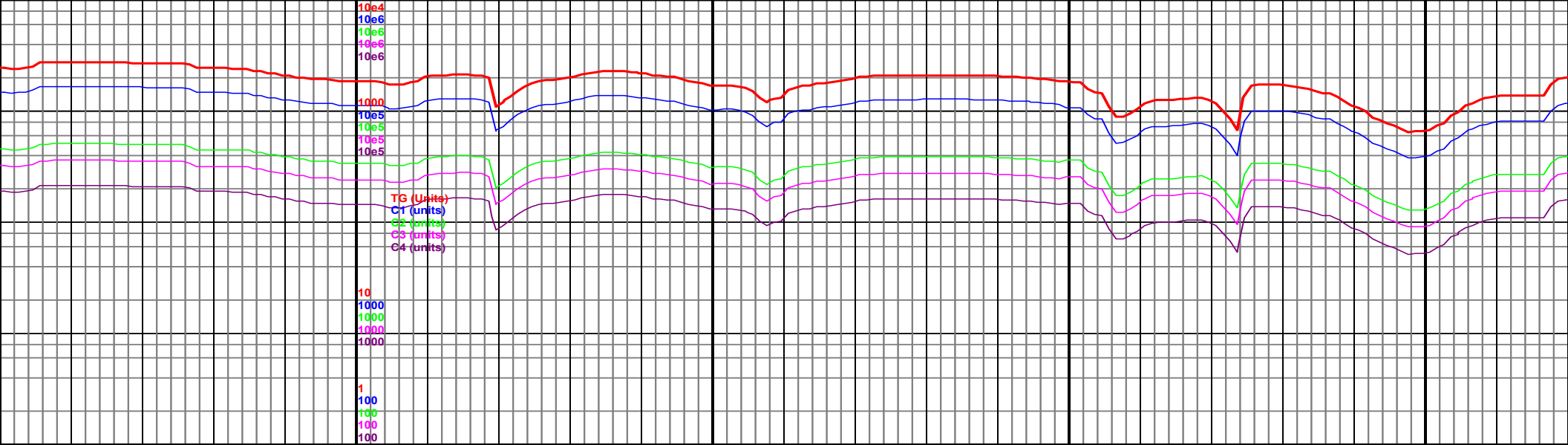
6400
(-1467)

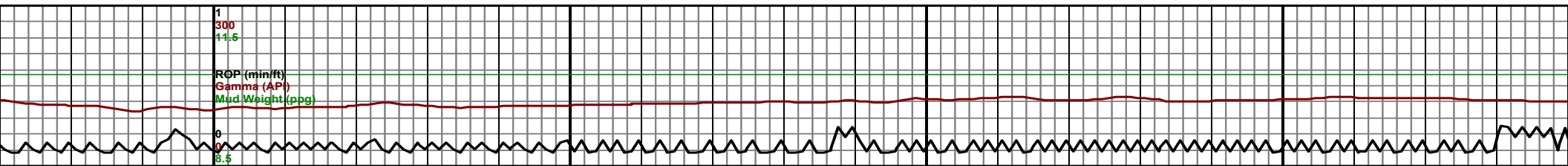
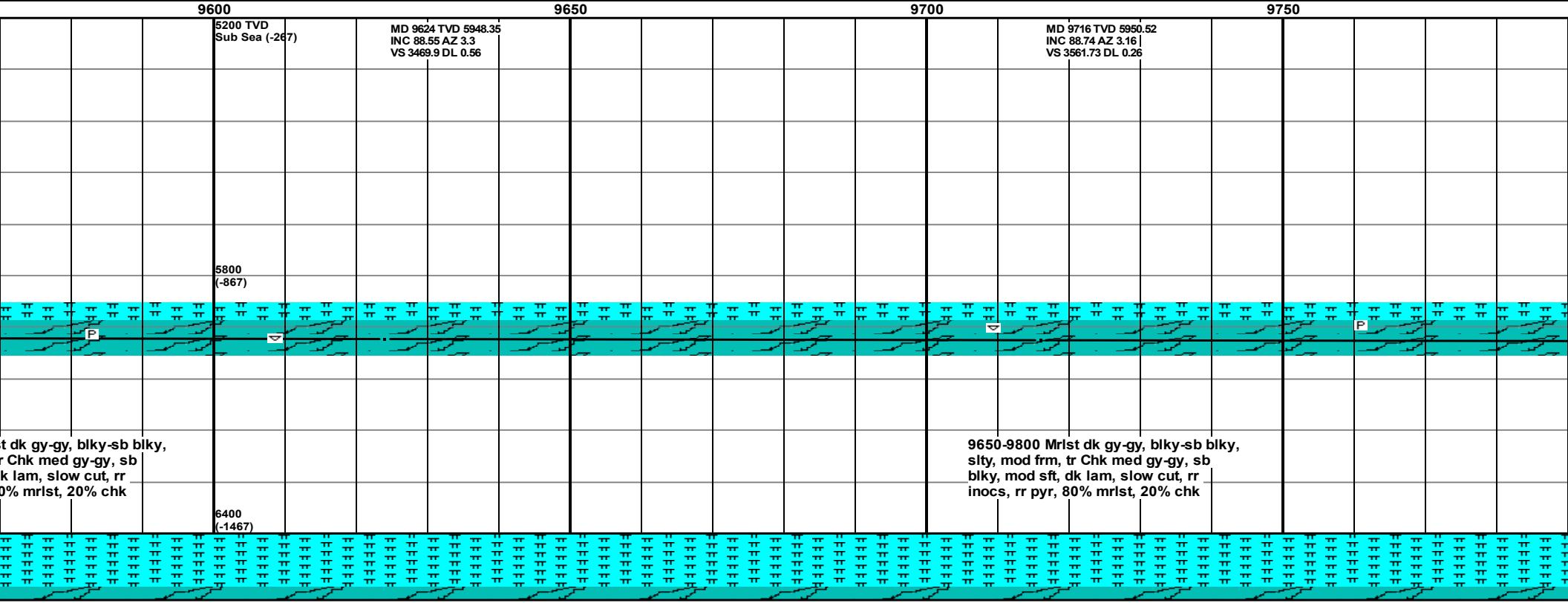
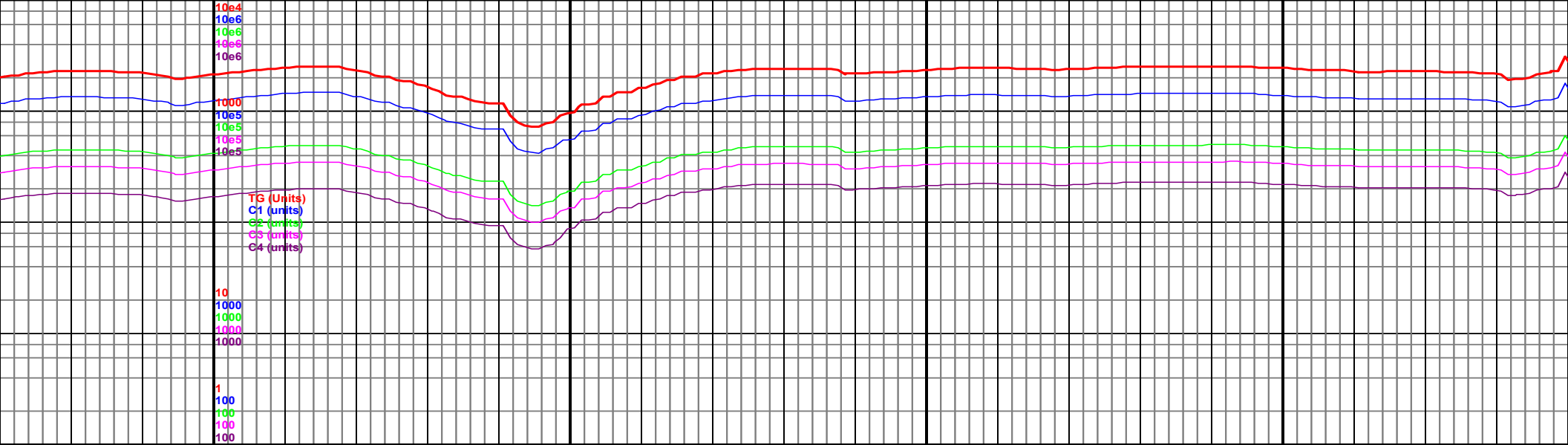


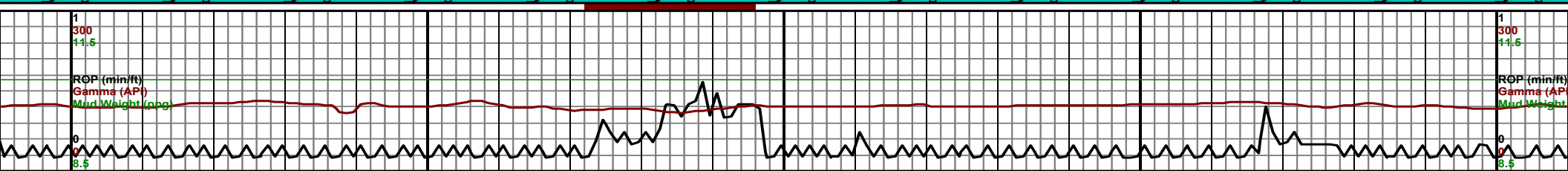
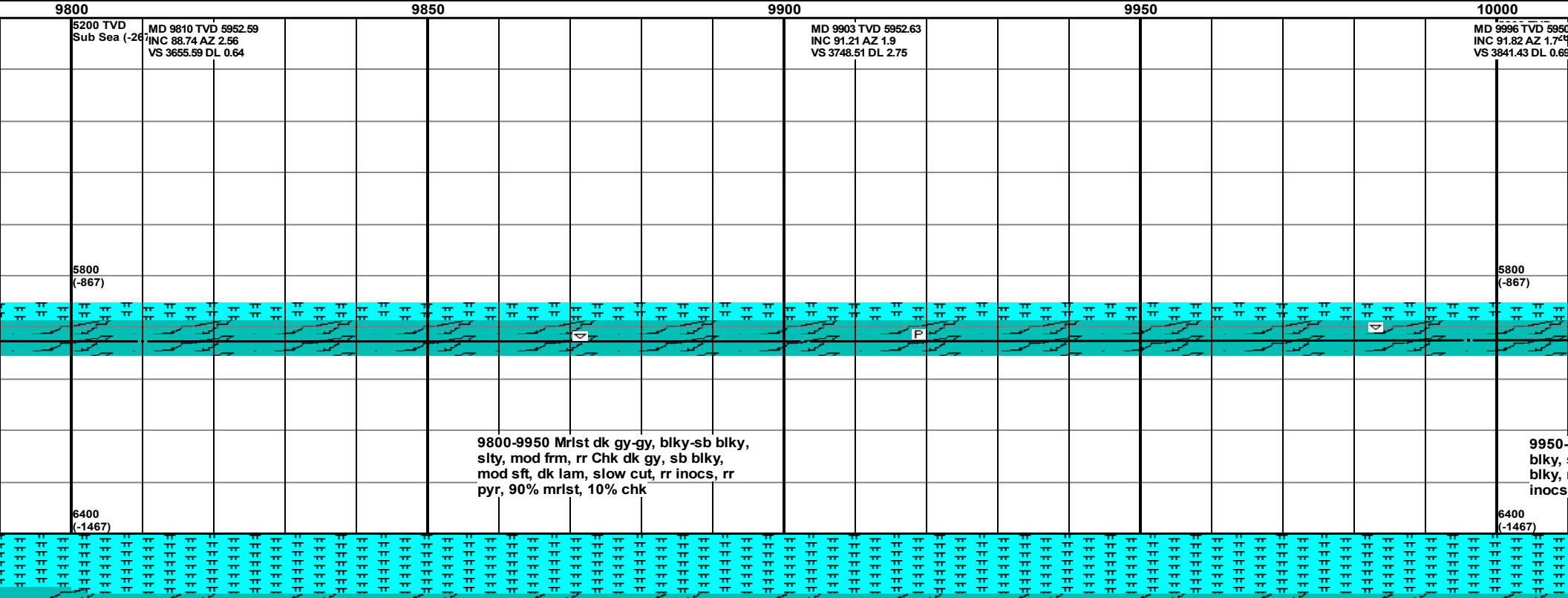
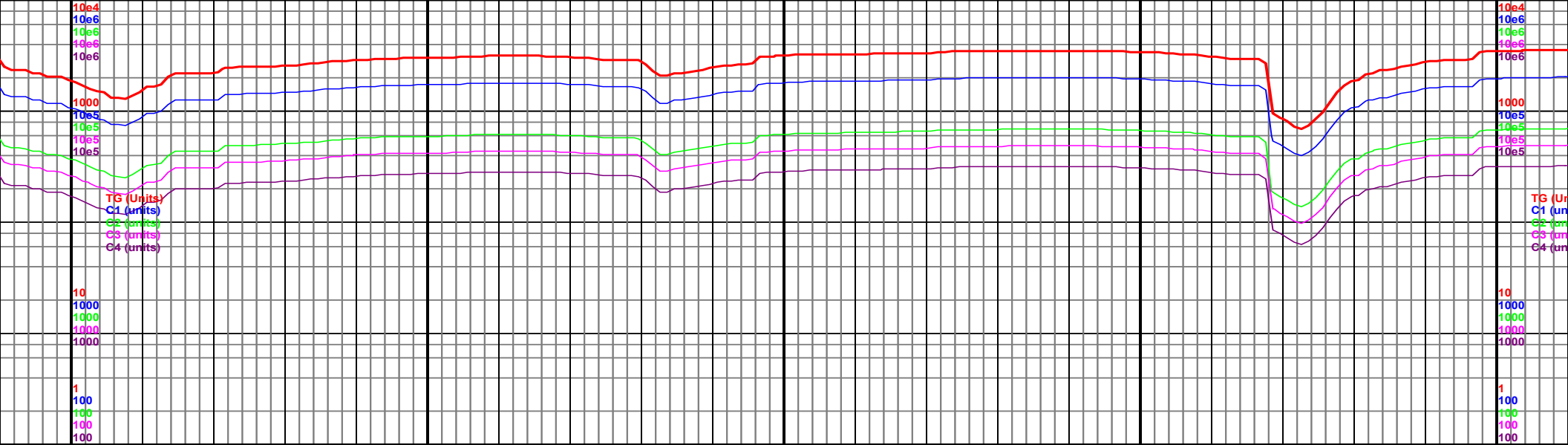


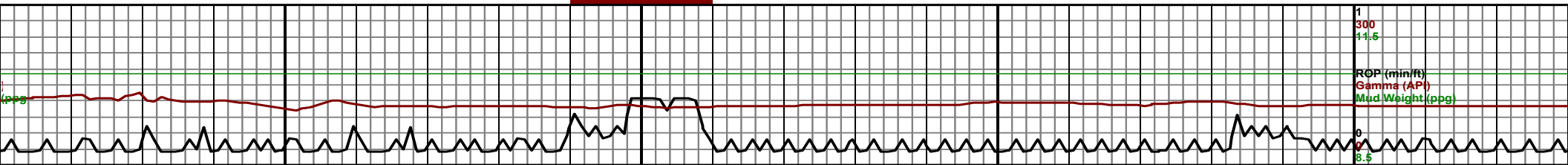
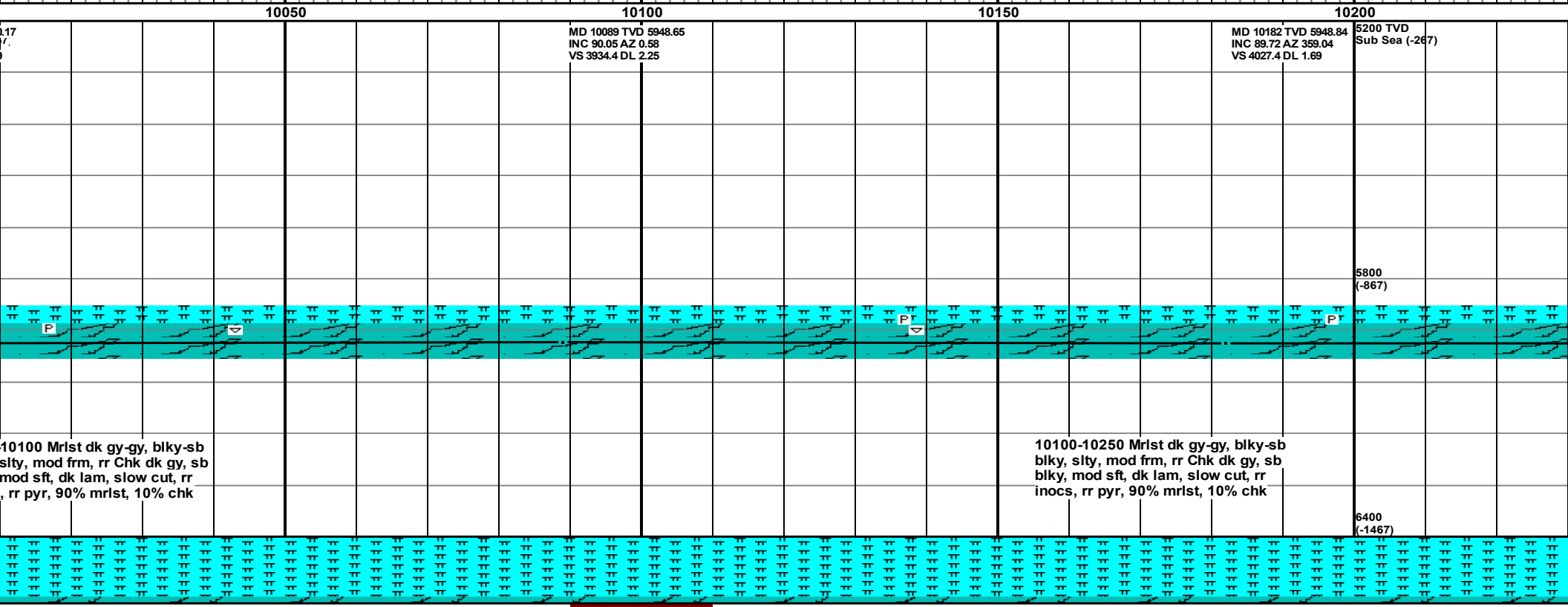
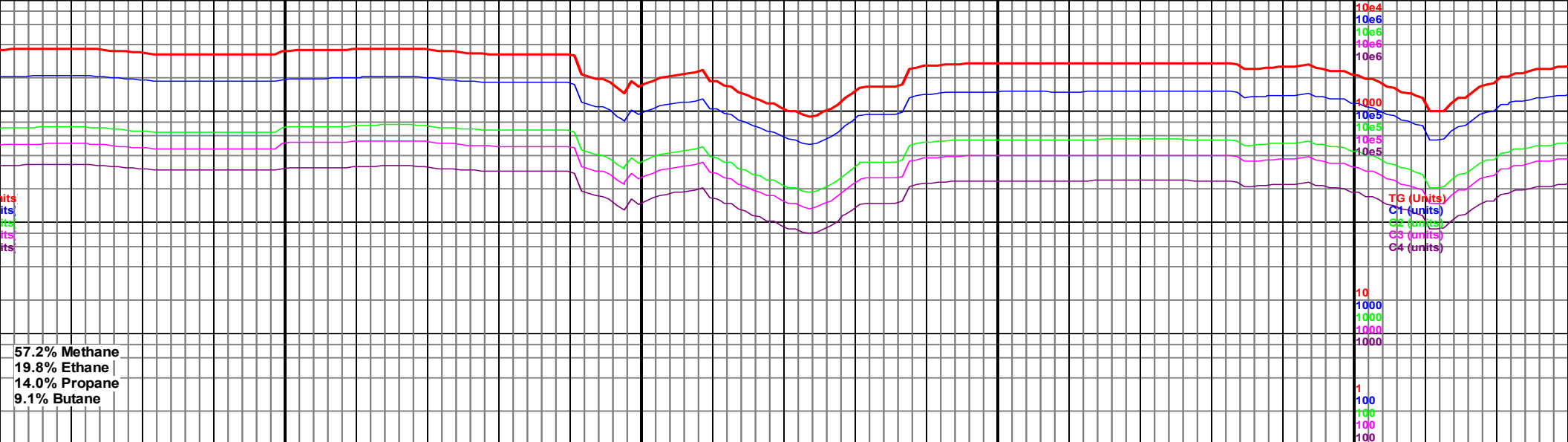


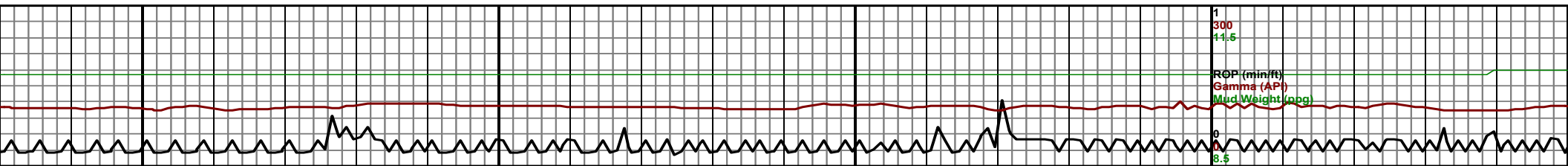
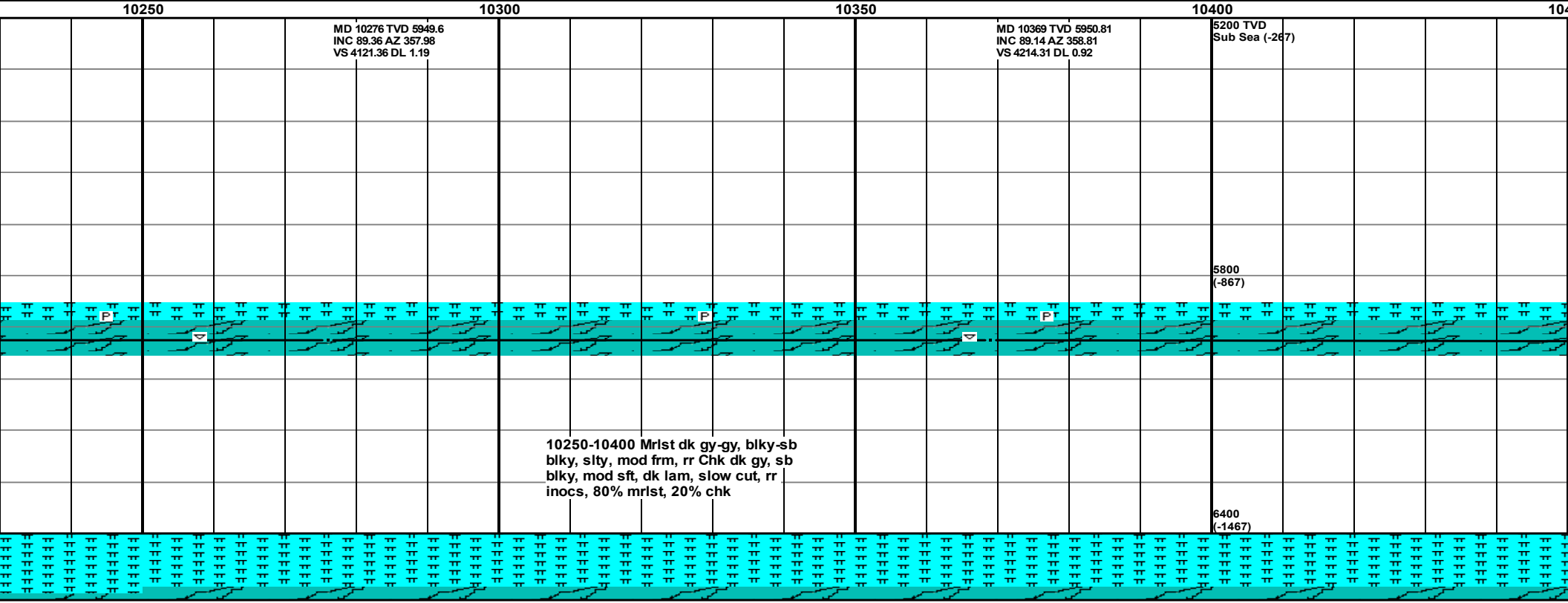
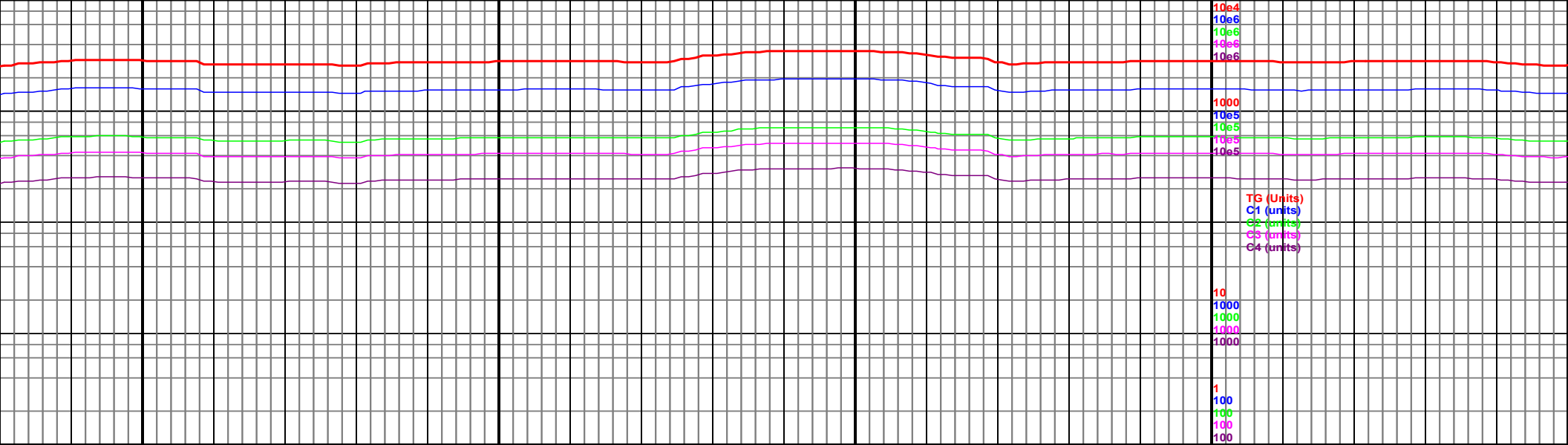


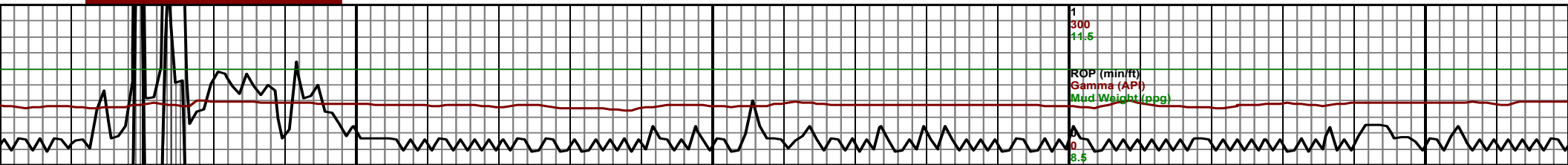
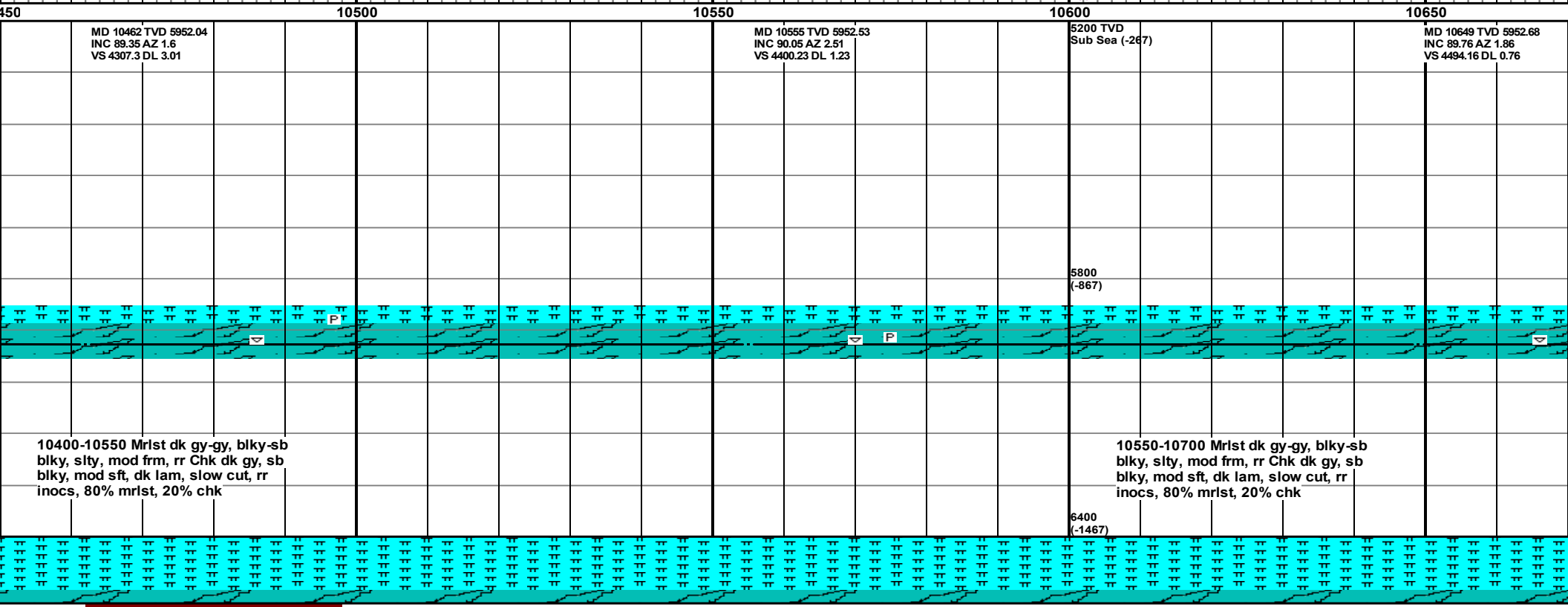
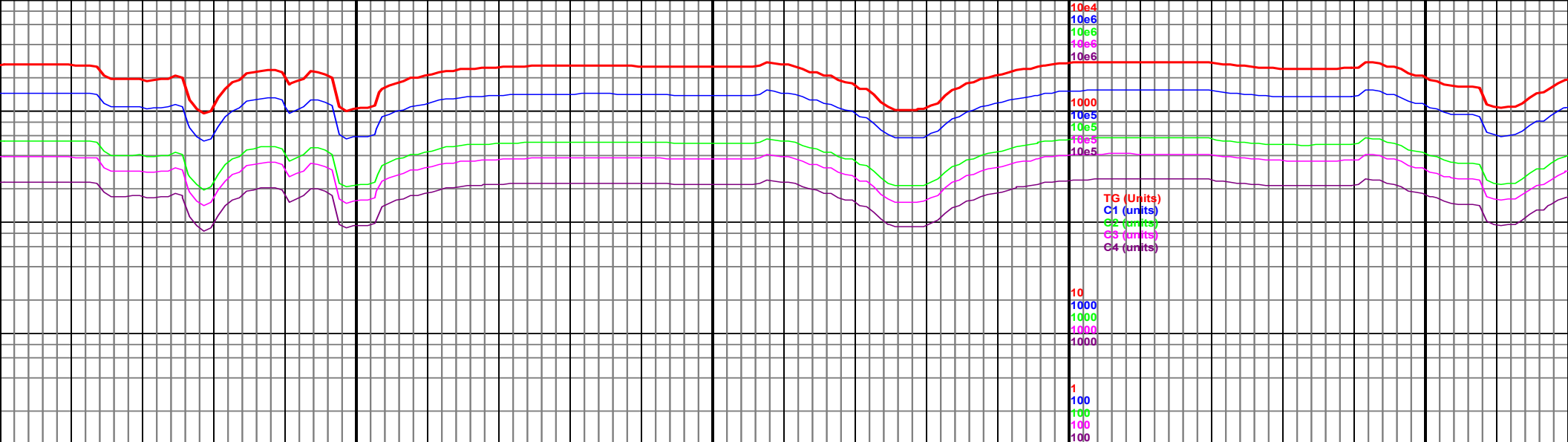


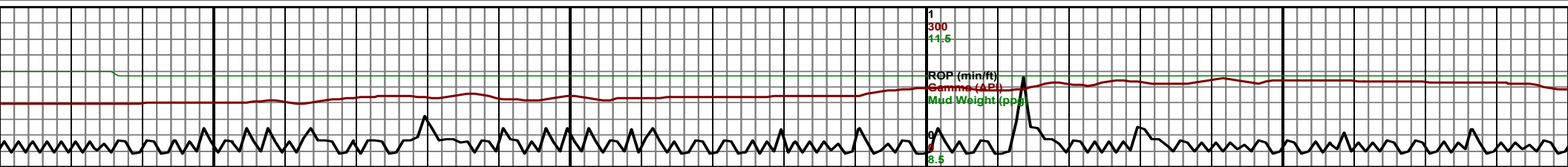
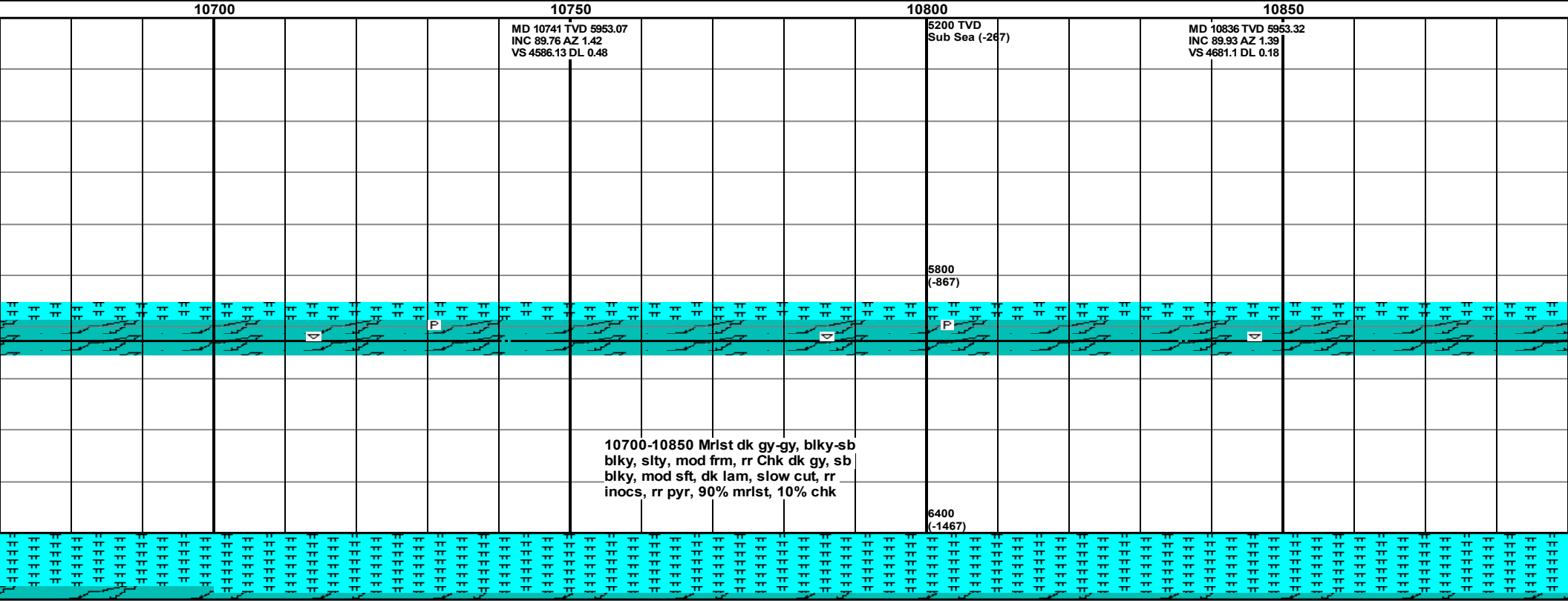
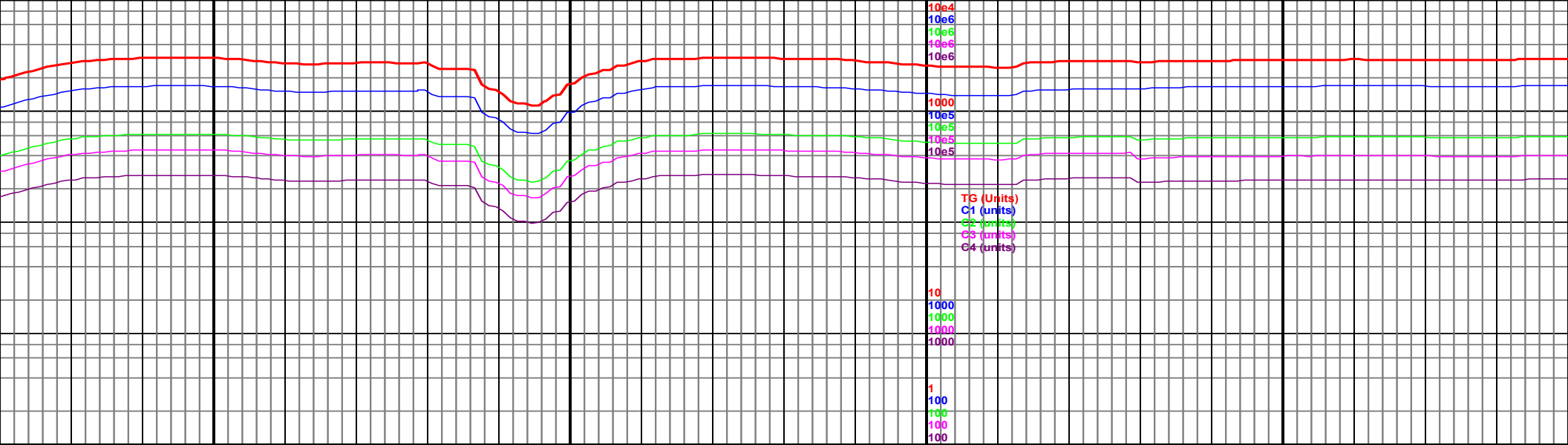


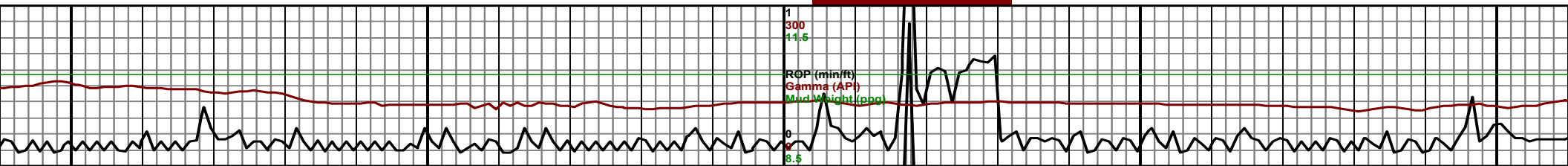
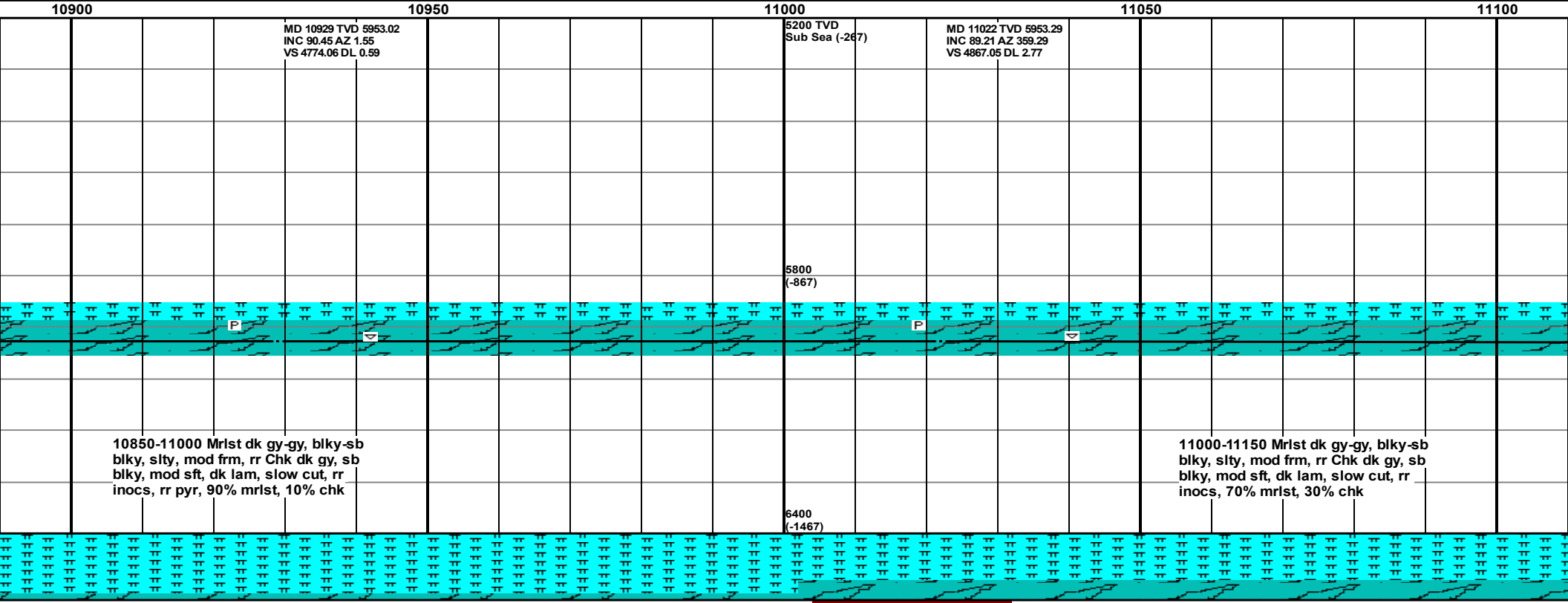
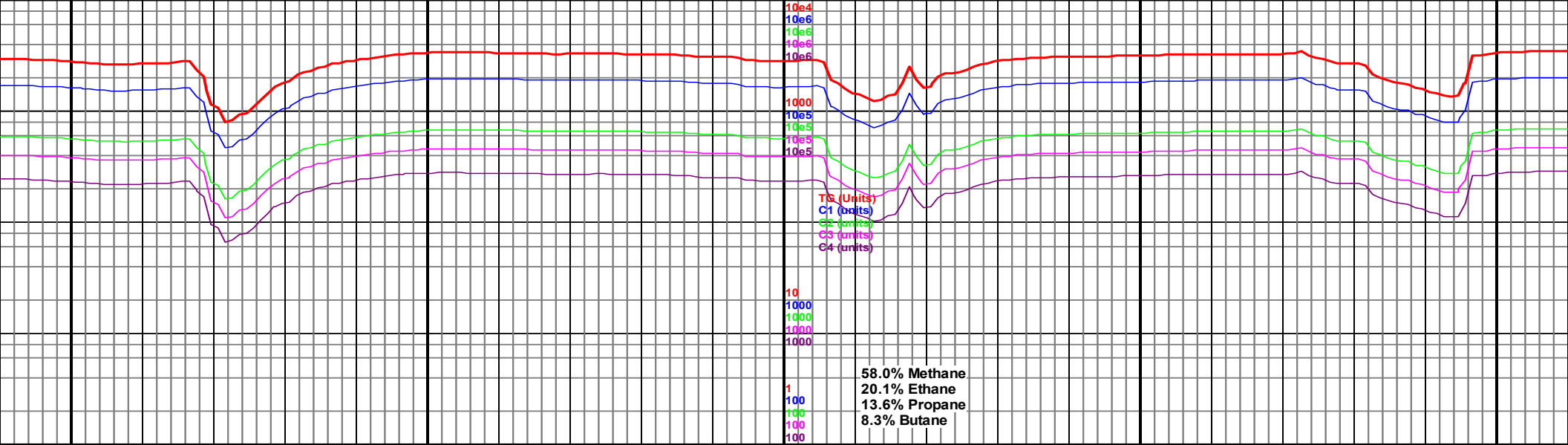


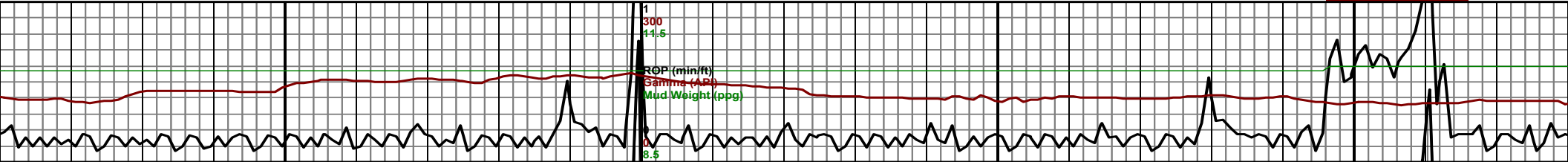
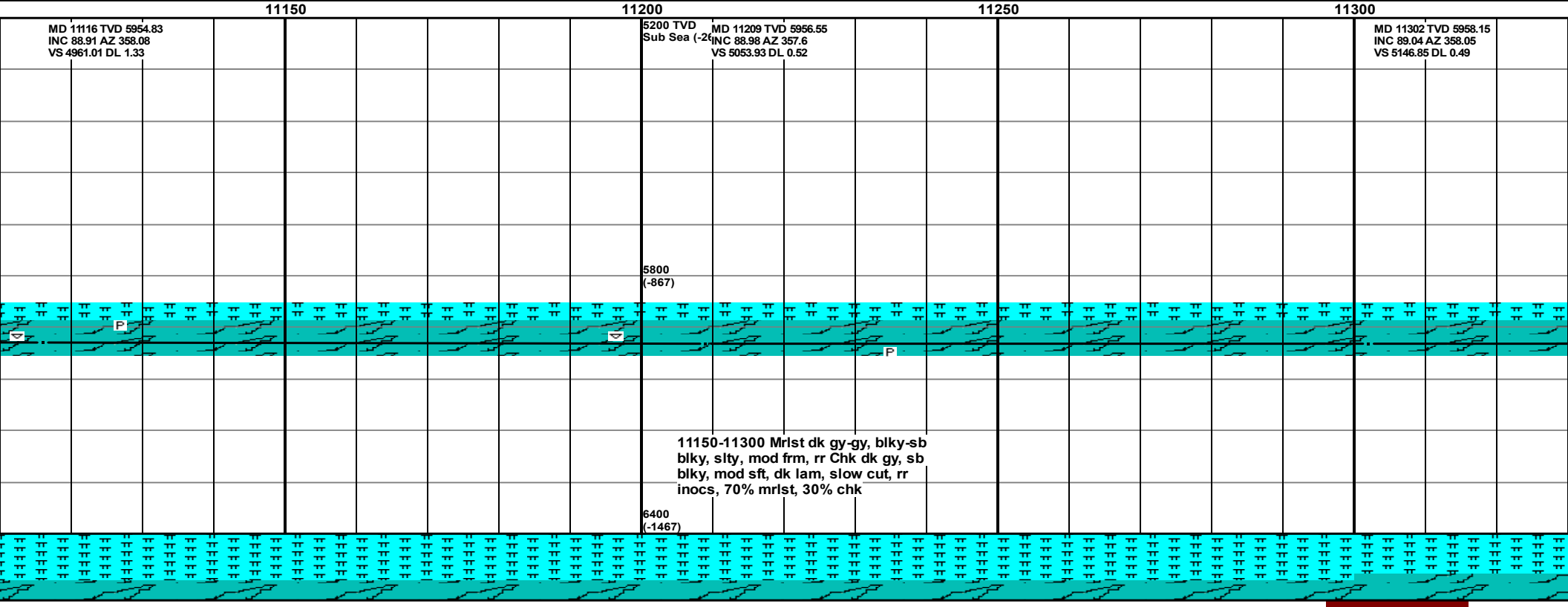
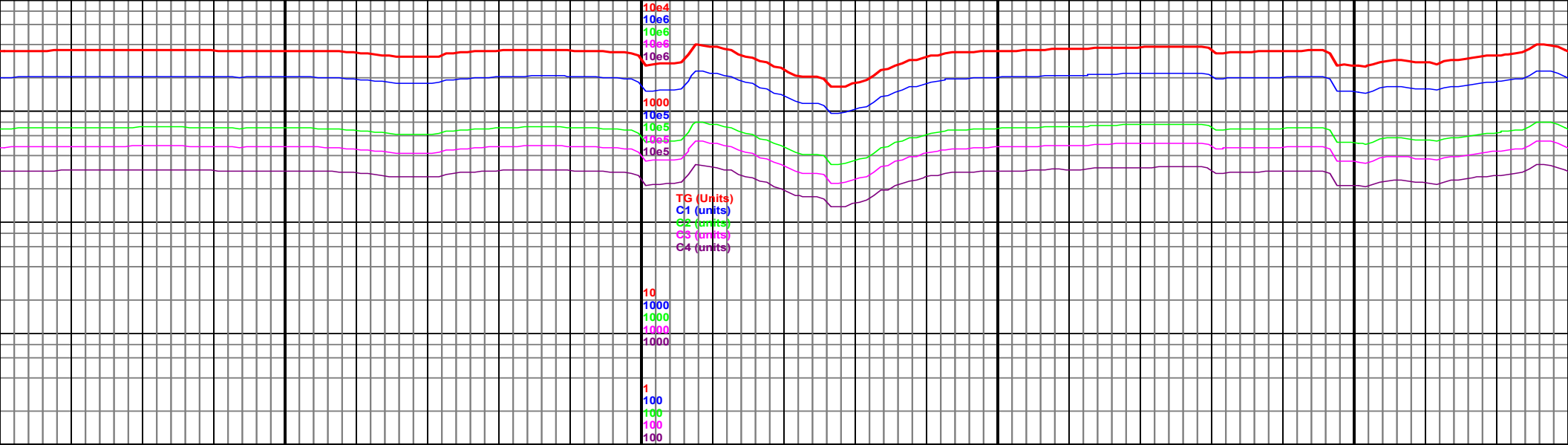


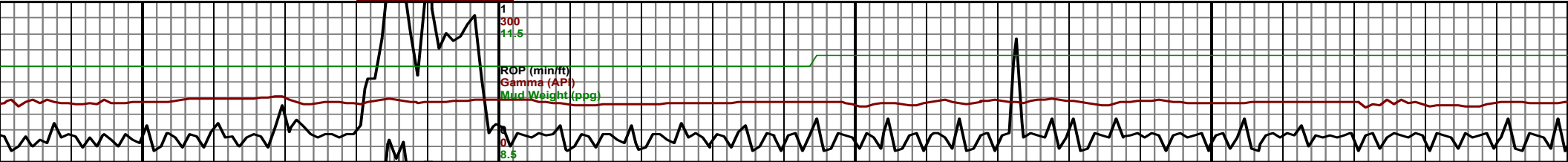
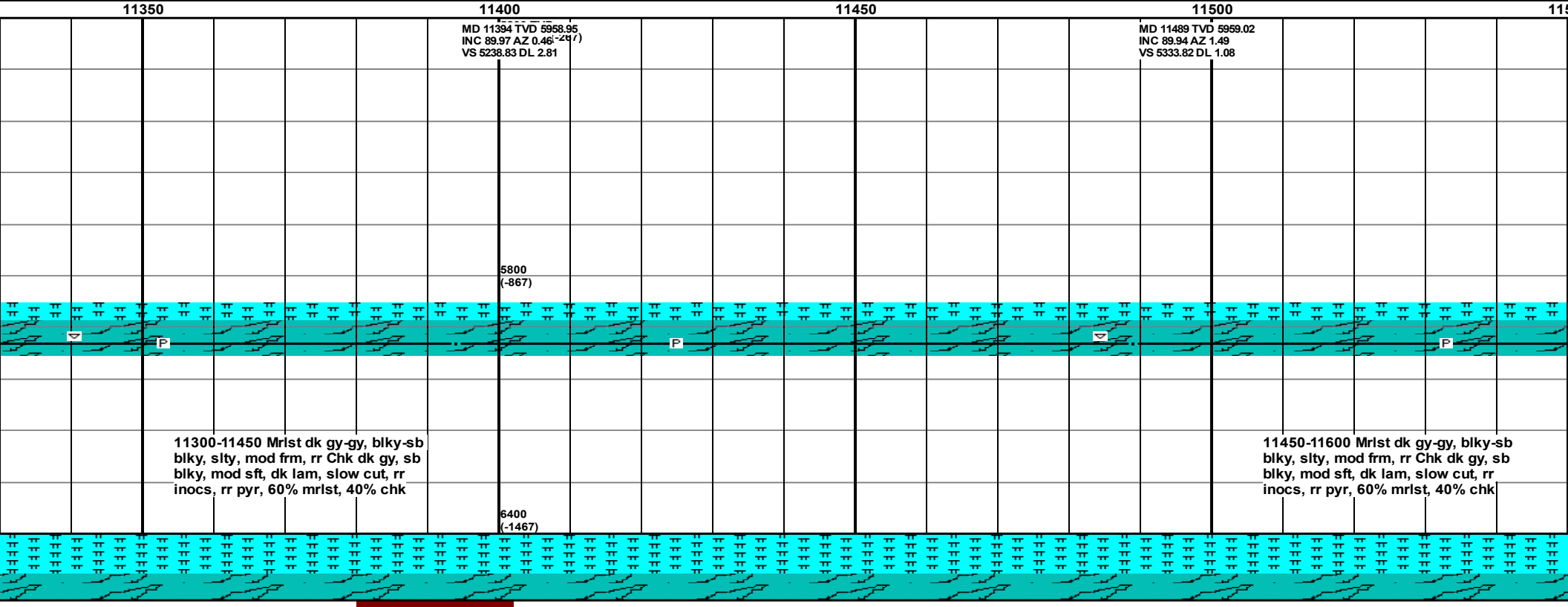
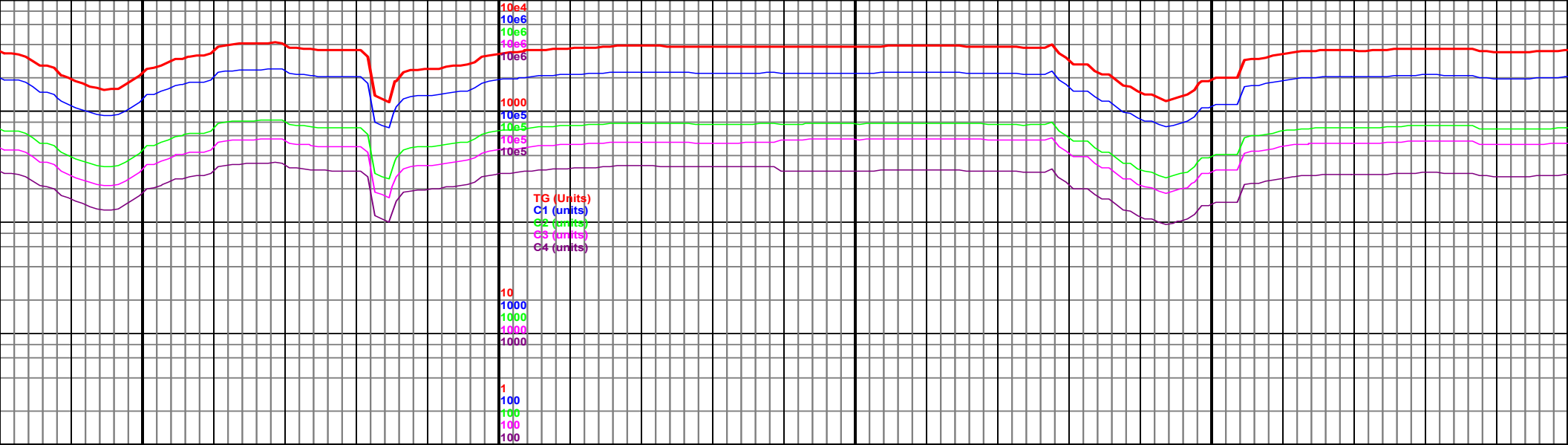


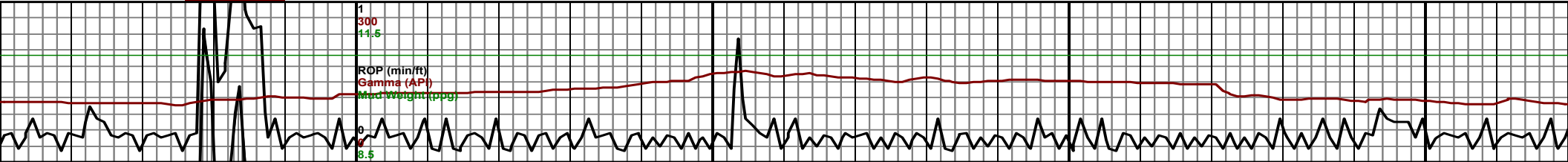
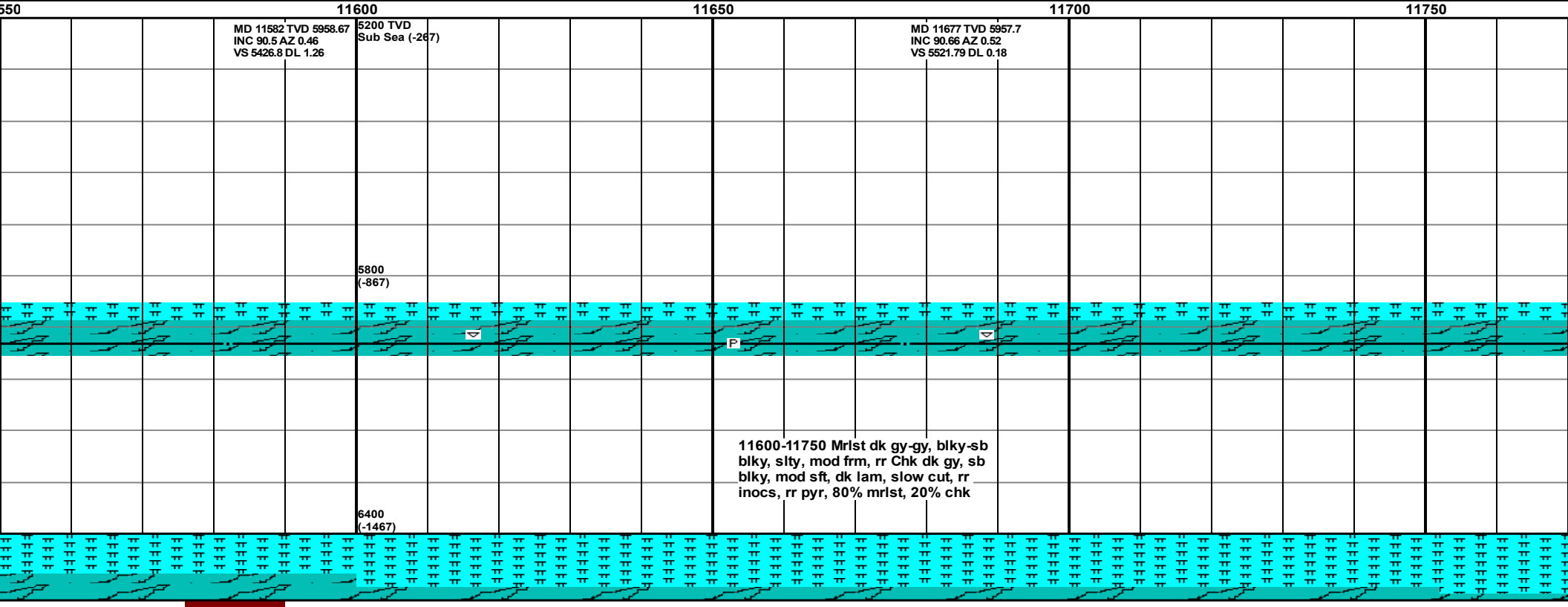
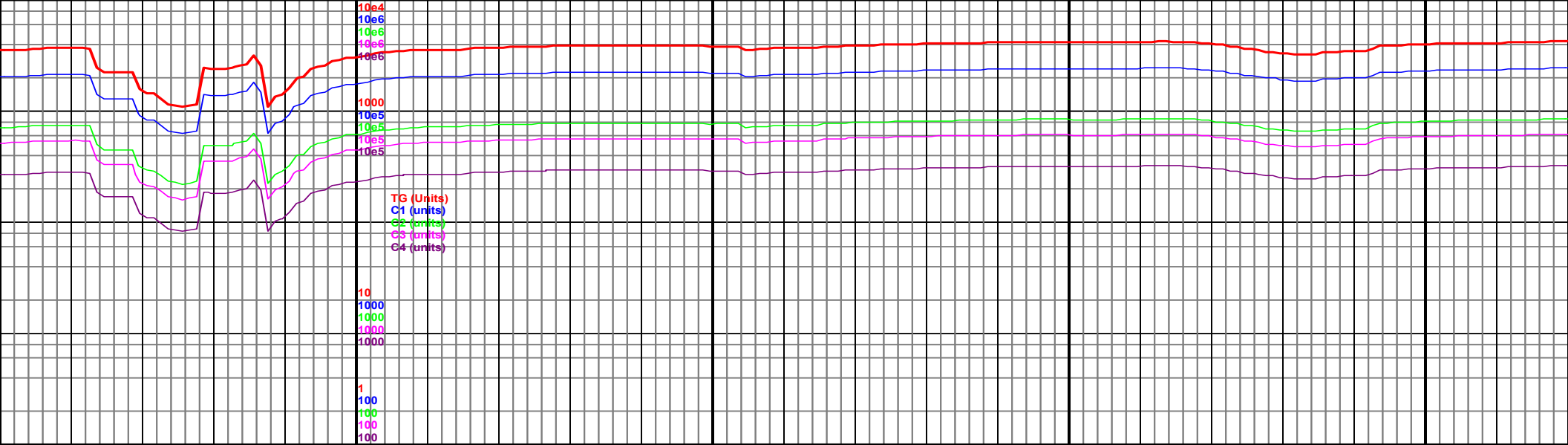


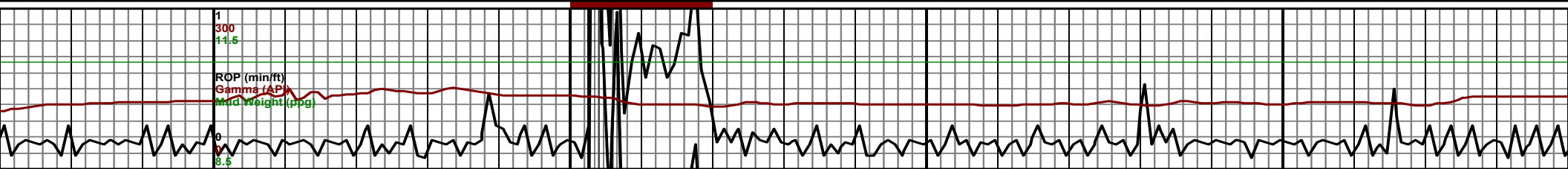
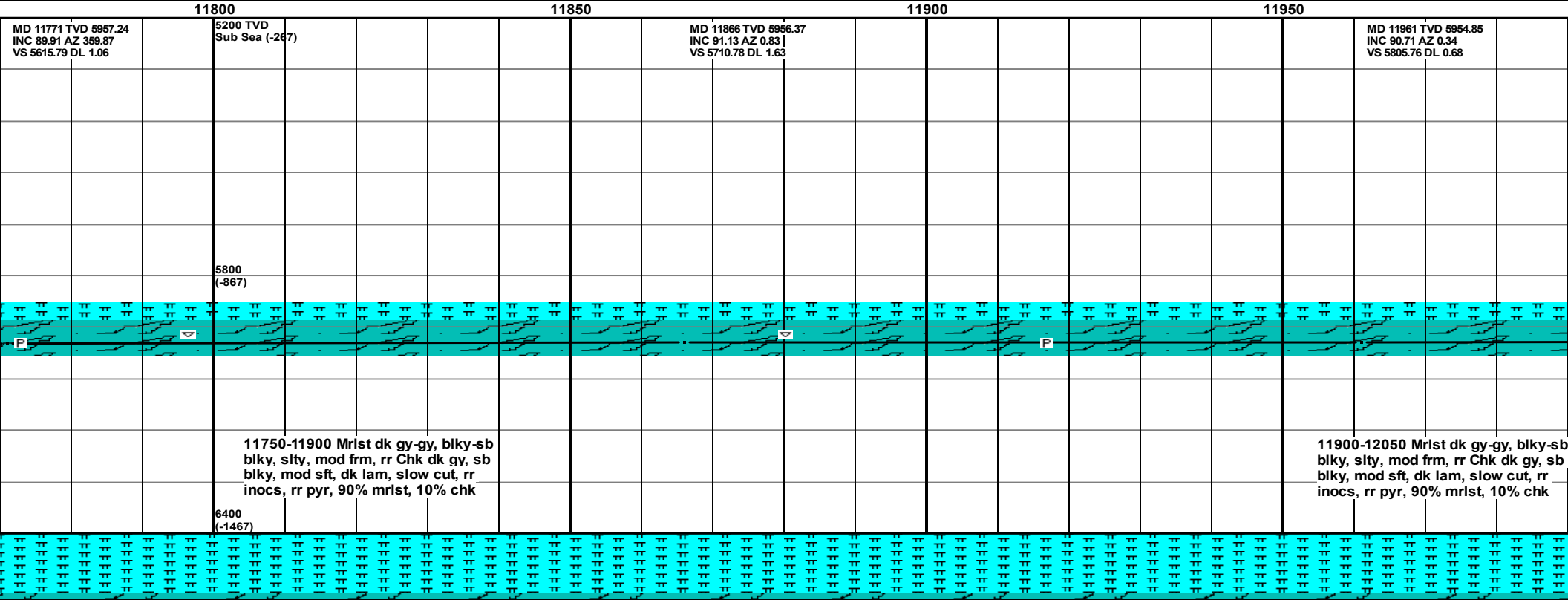
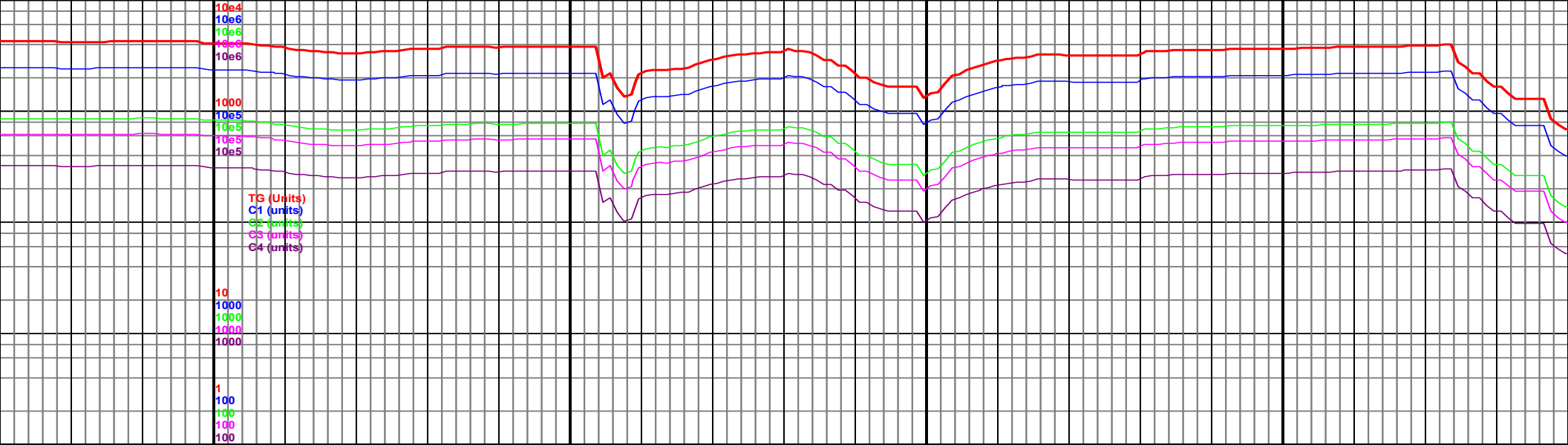


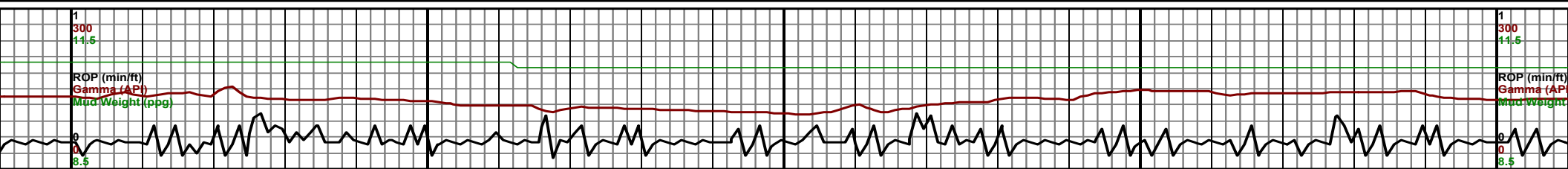
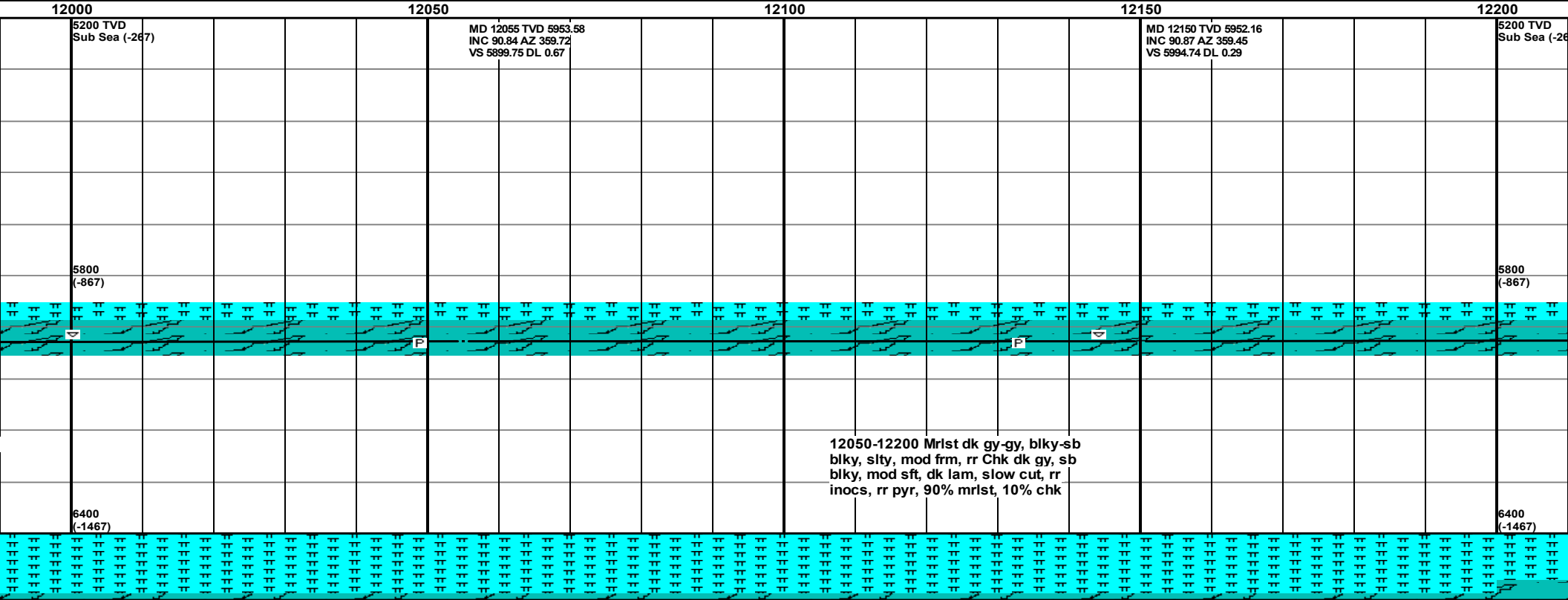
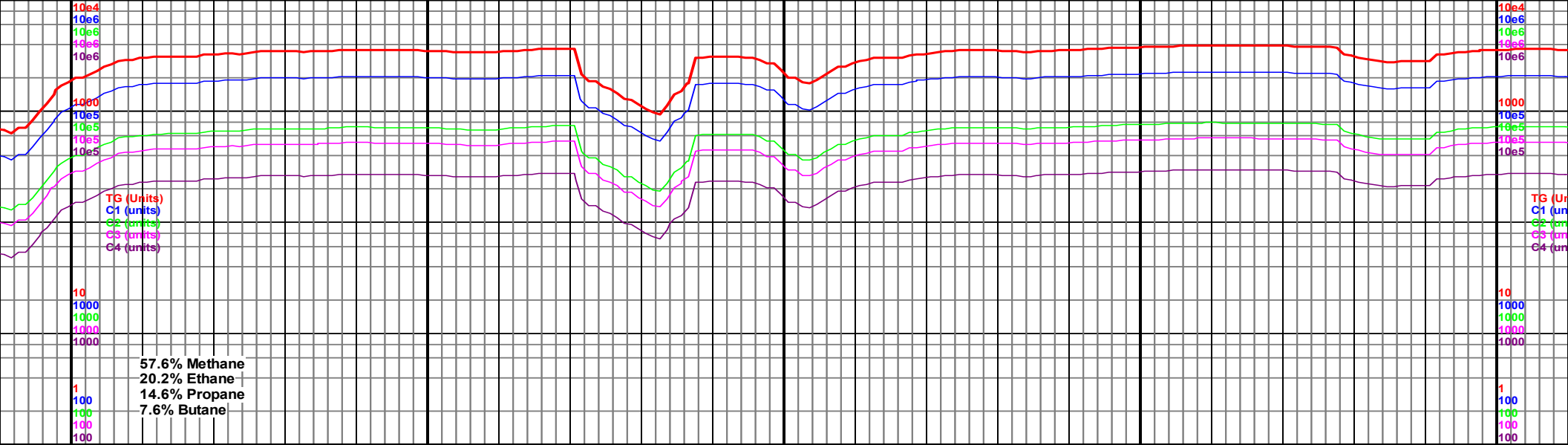


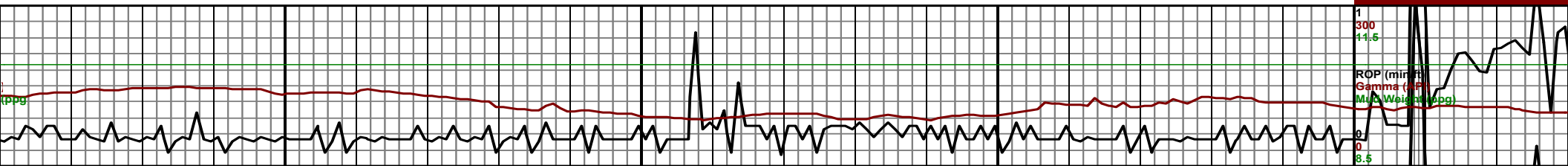
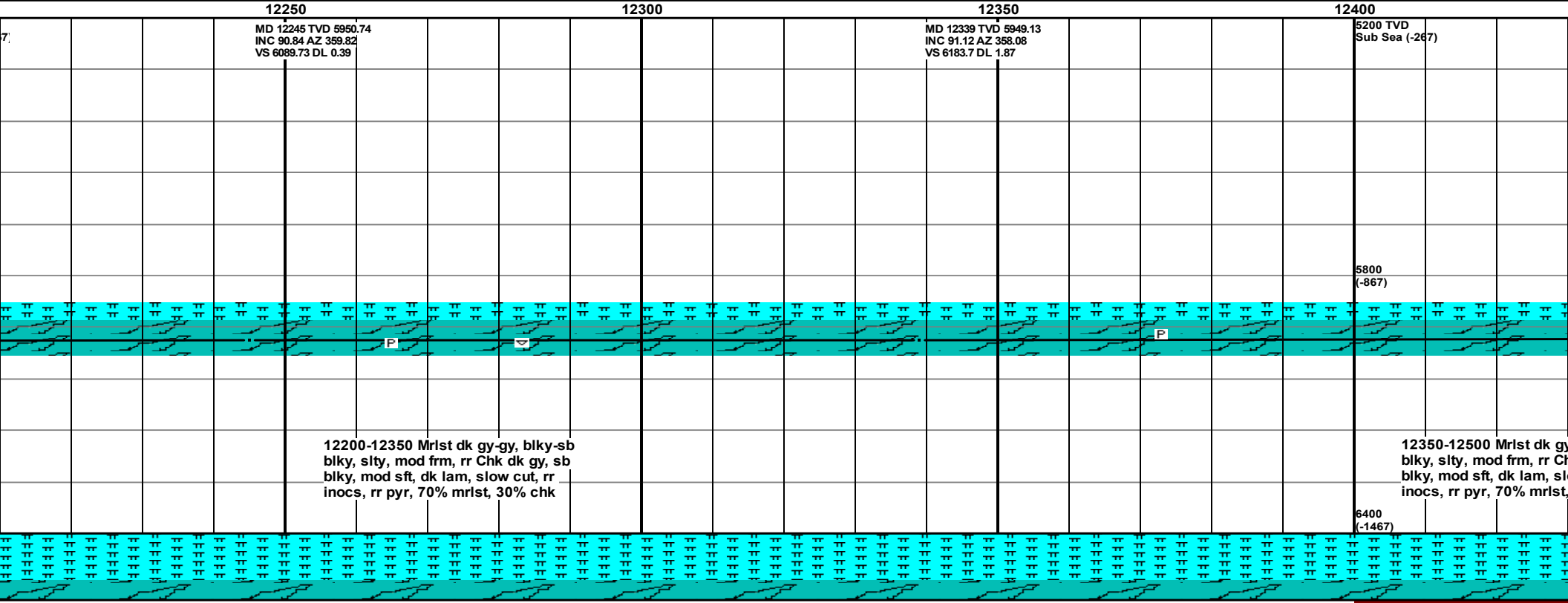
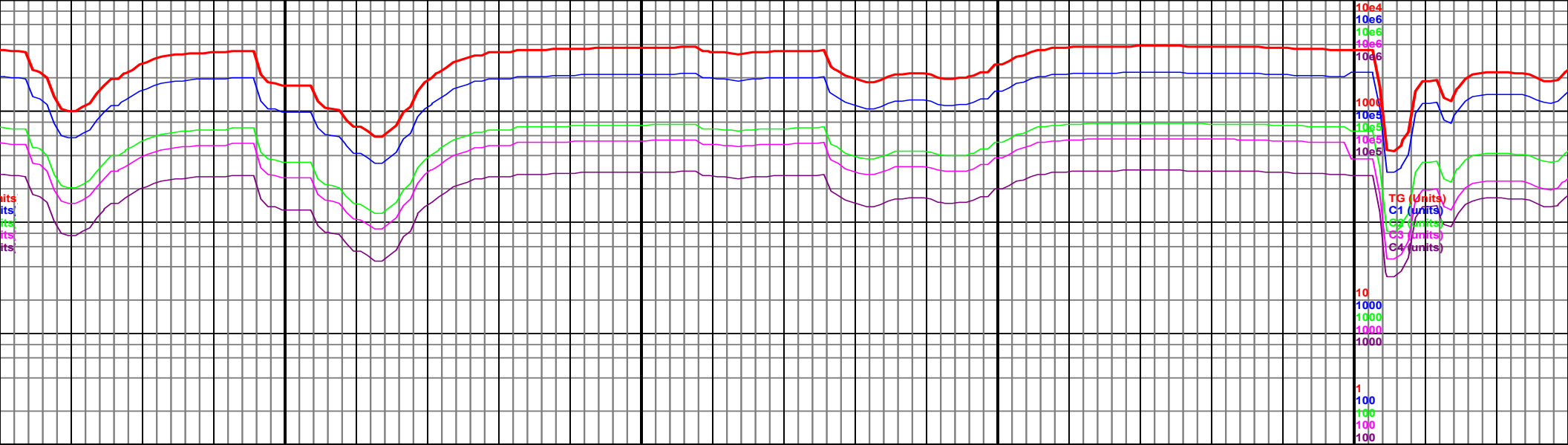


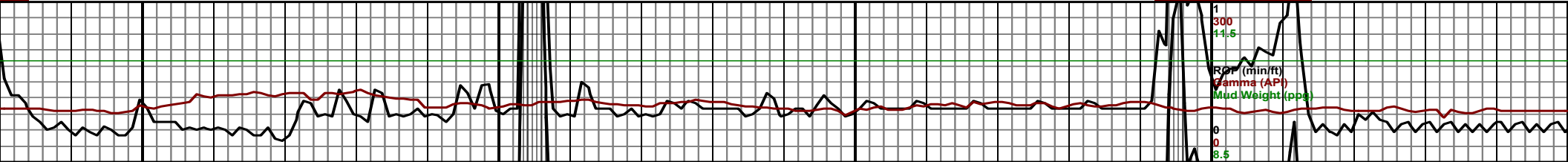
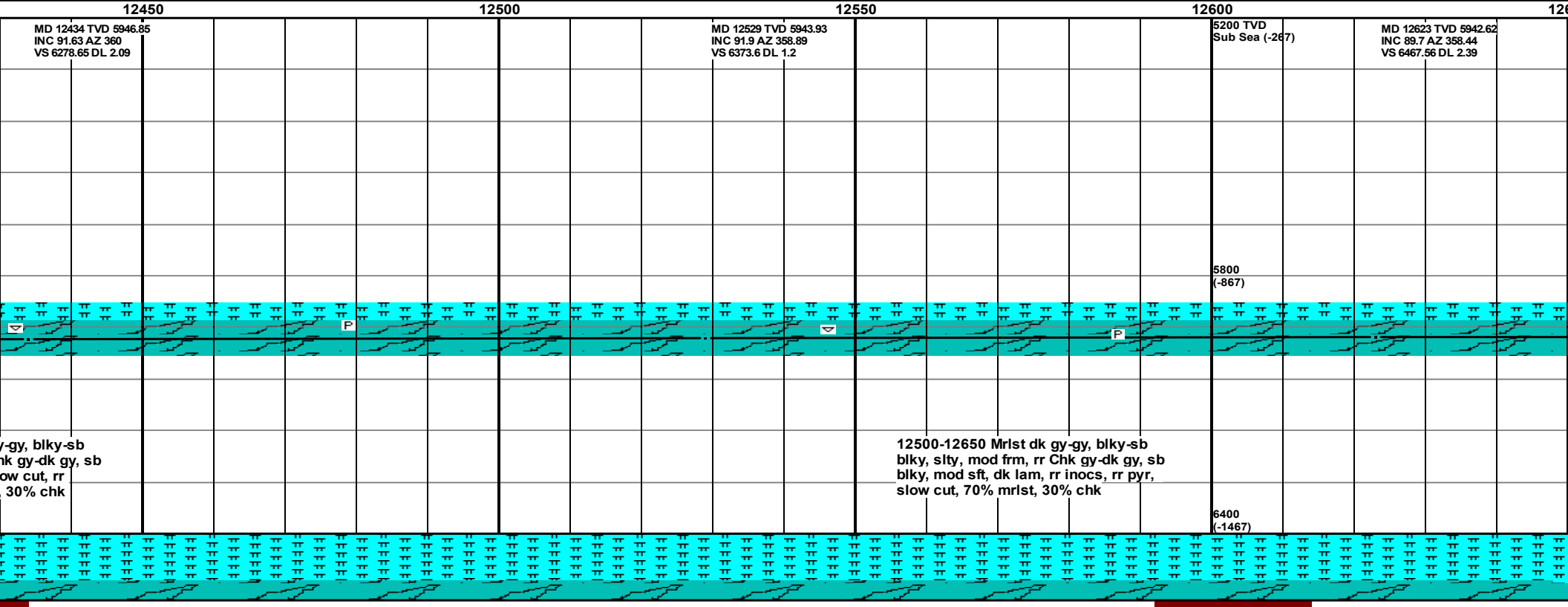
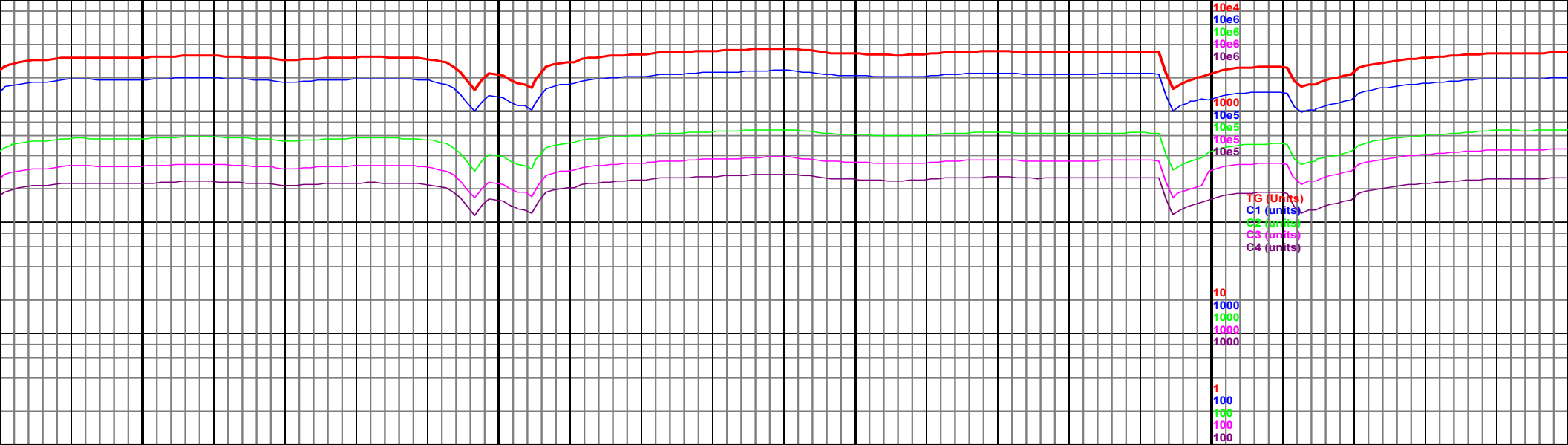


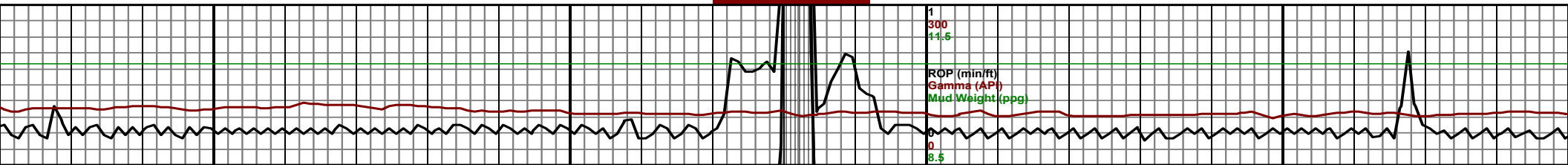
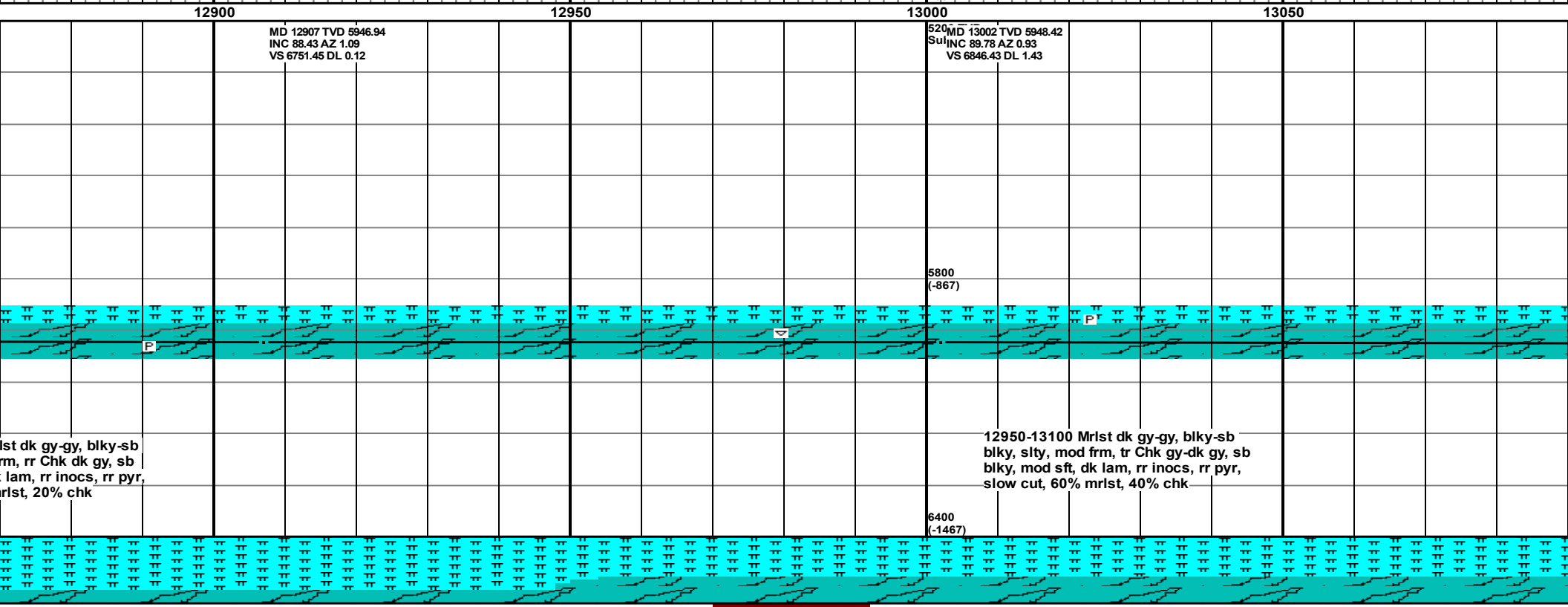
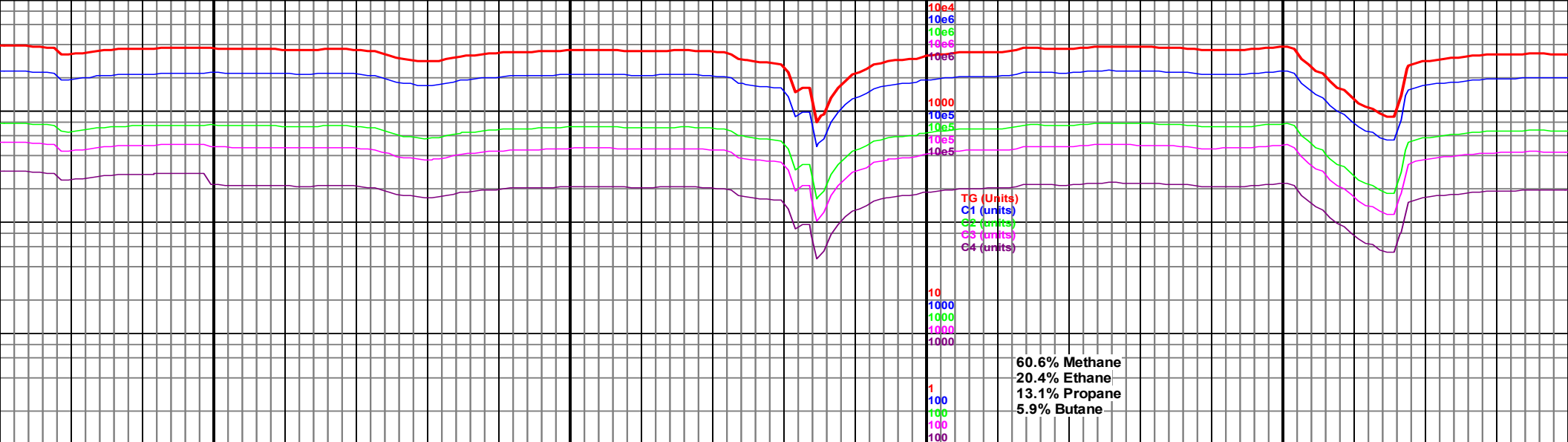


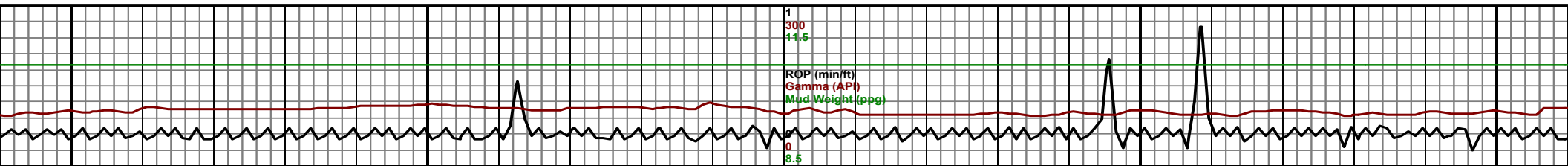
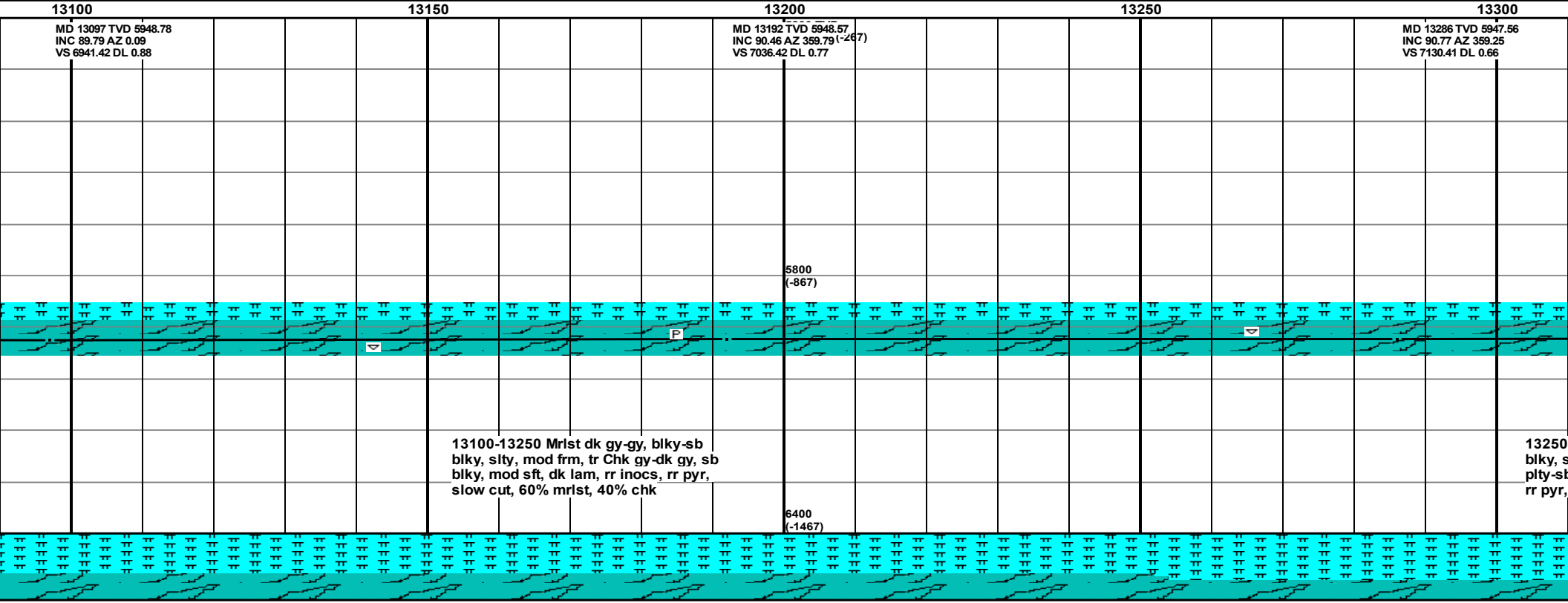
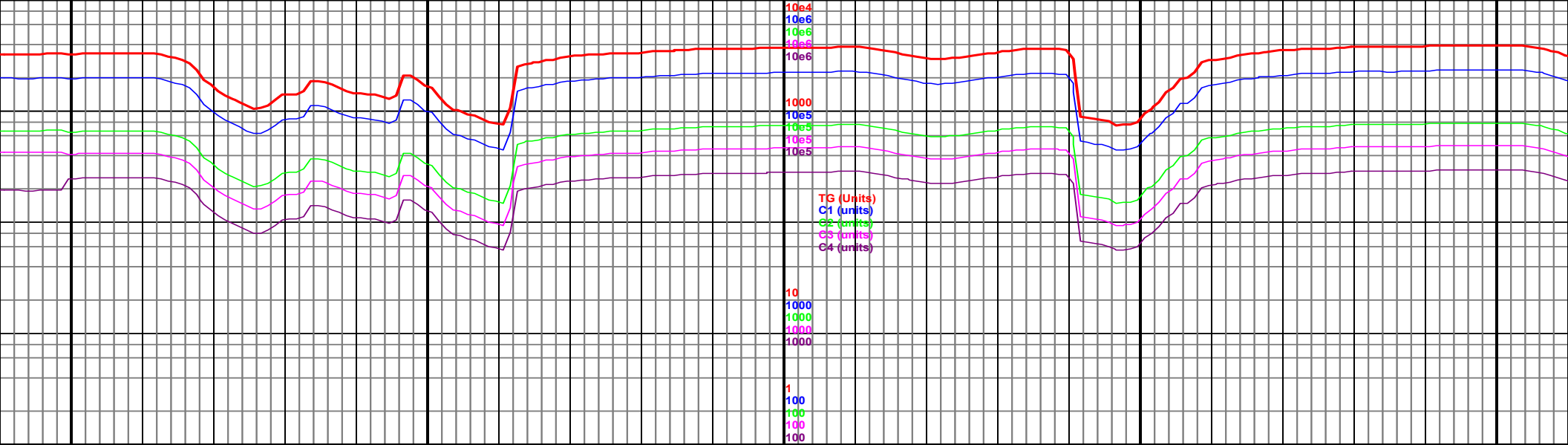


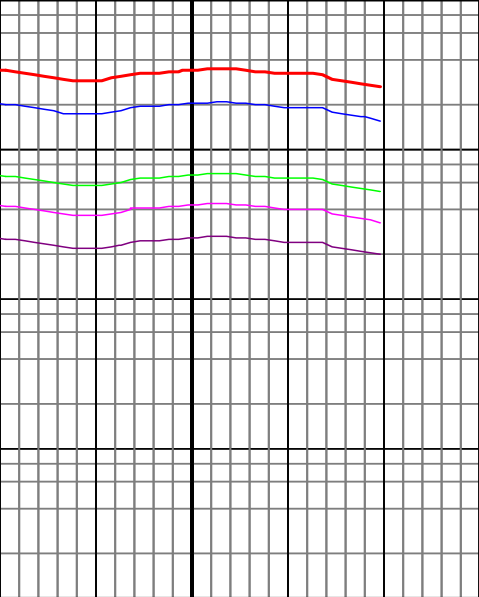












13550

FD 13571' MD at 01:17 on
2/15/2017.

