



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

Well Name: Horsetail 07F-1808  
Well Id: 05-123-41779-00  
Location: Sec 7-T10N-R57W  
License Number: 05-123-41779-00  
Spud Date: 3/8/2016  
Surface Coordinates: 40.853736  
-103.795619

Region: Redtail Field  
Drilling Completed: 3/14/2016

Bottom Hole Coordinates:

Ground Elevation (ft): 4899      K.B. Elevation (ft): 4920  
Logged Interval (ft): 5119      To: 14070      Total Depth (ft): 14070  
Formation: Pierre, Sharon Springs, Niobrara A, Niobrara B  
Type of Drilling Fluid: Water Based Mud

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: Mitch Schneider and Craig Dreiling  
Company: Acme Geologic Consulting  
Address: 108 Berry Street  
Little Rock, AR 72205

## Drilling Company

Unit Drilling Company  
Rig 406

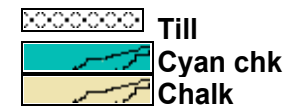
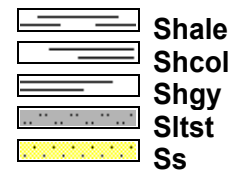
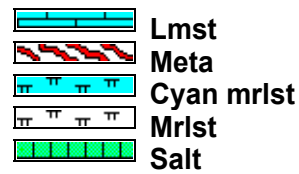
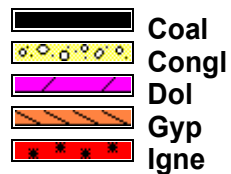
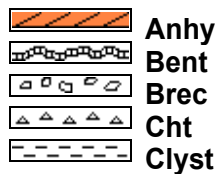
## Gas Detection

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

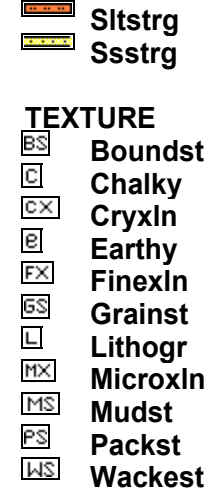
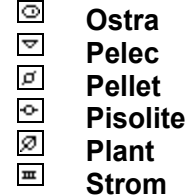
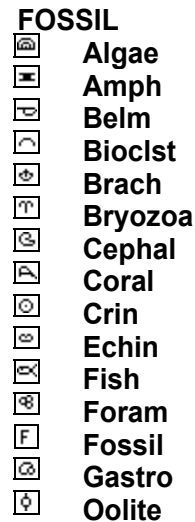
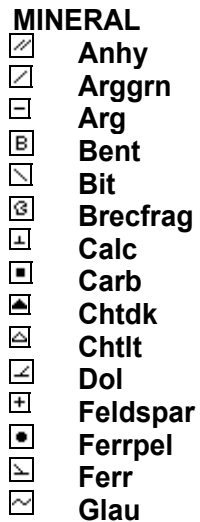
## Comments

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

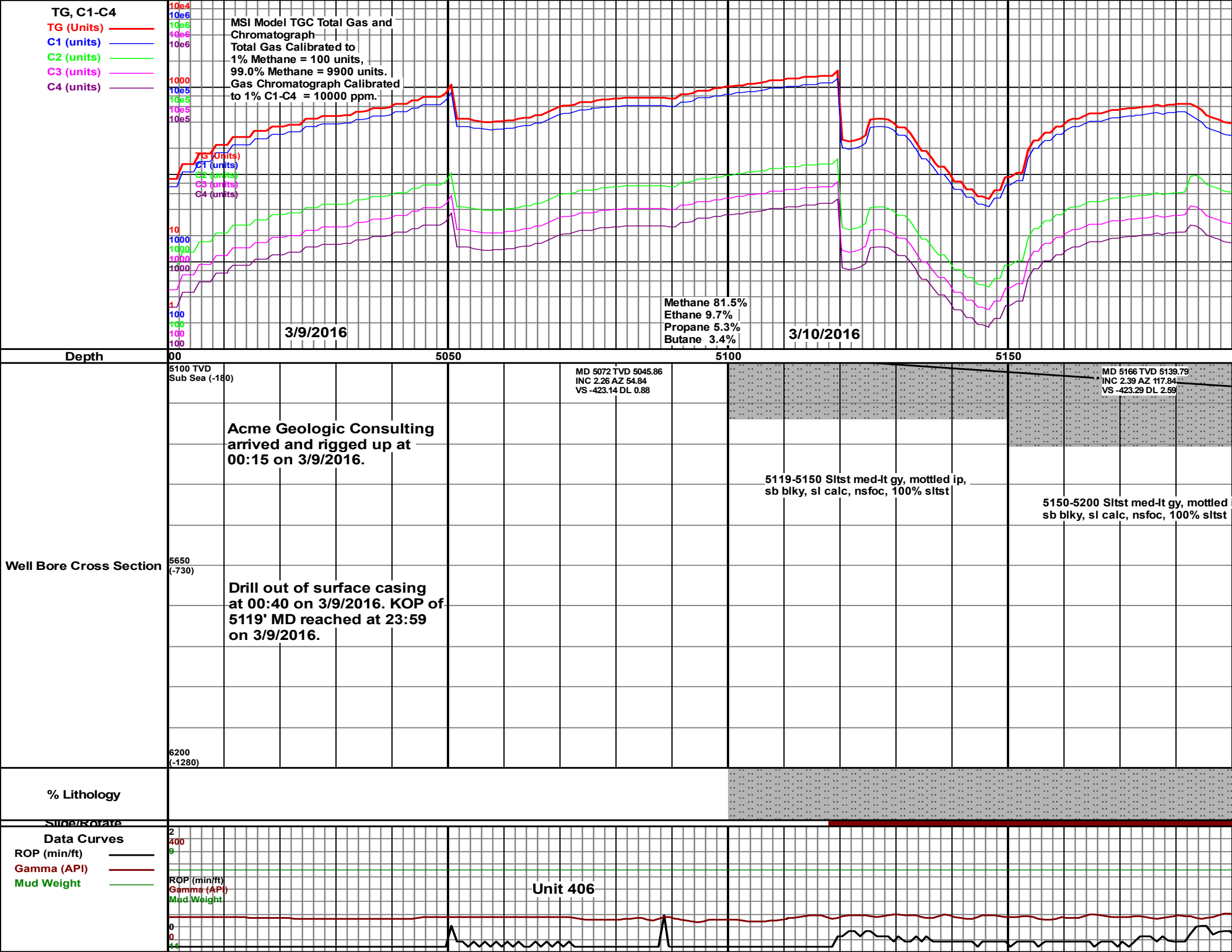


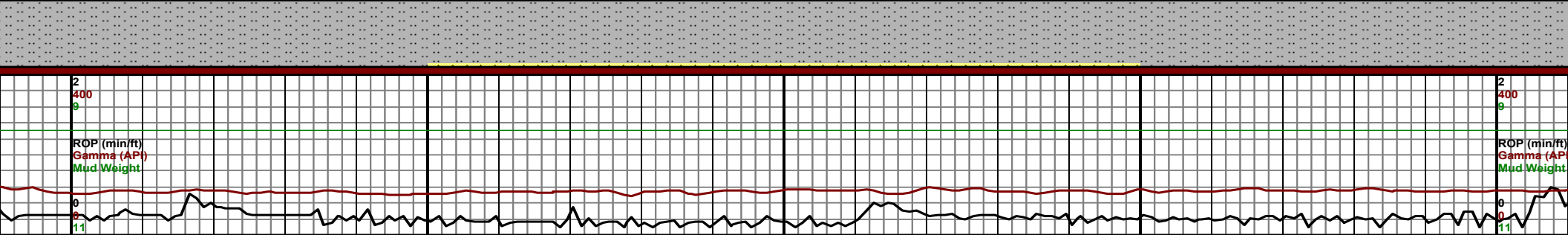
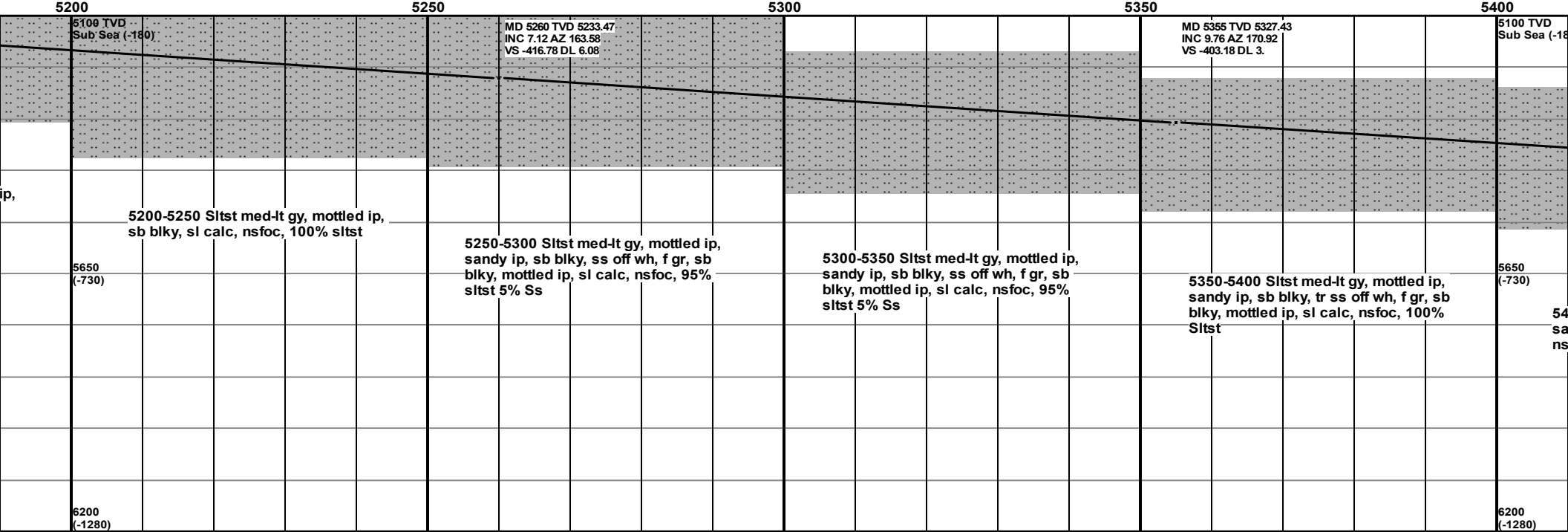
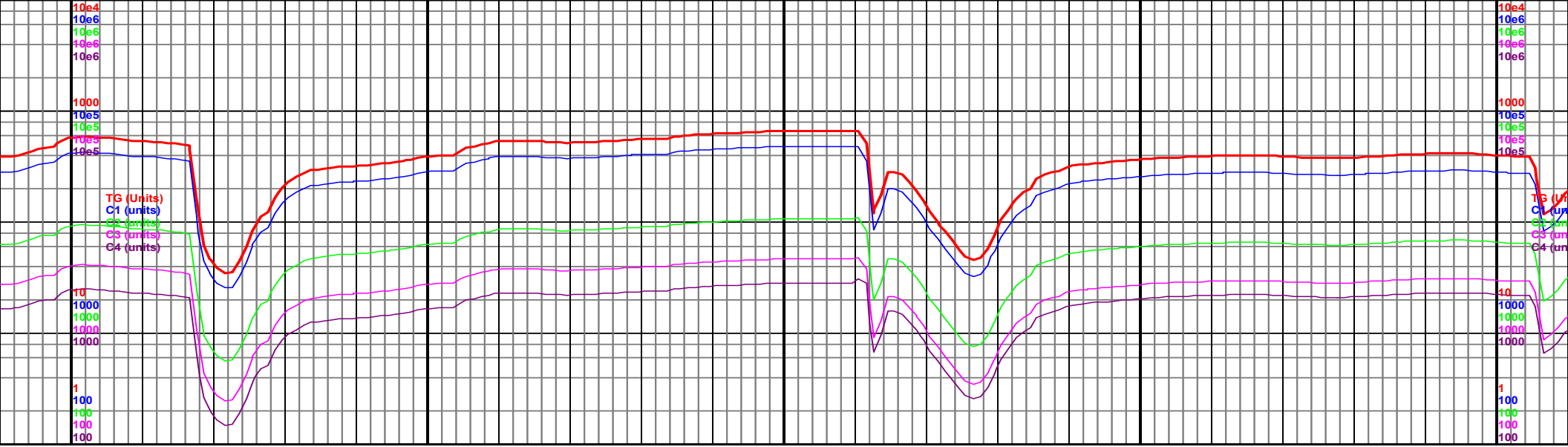
**POROSITY**  
[E] Earthy  
[B] Fenest  
[F] Fracture  
[X] Inter  
[Z] Moldic  
[O] Organic  
[P] Pinpoint

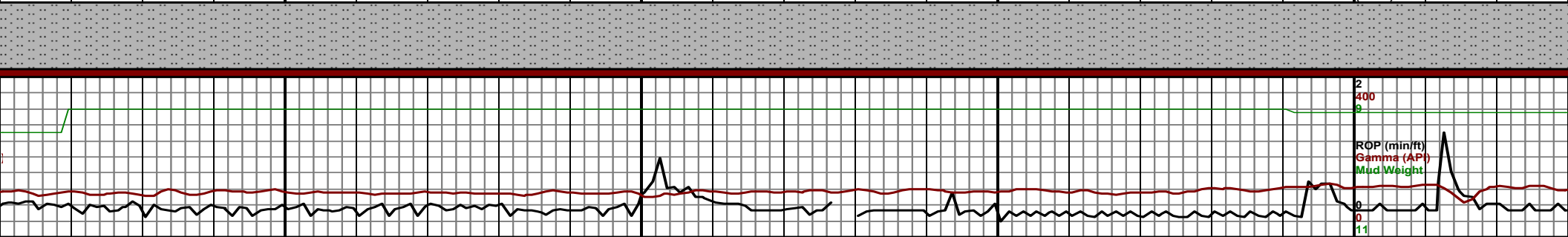
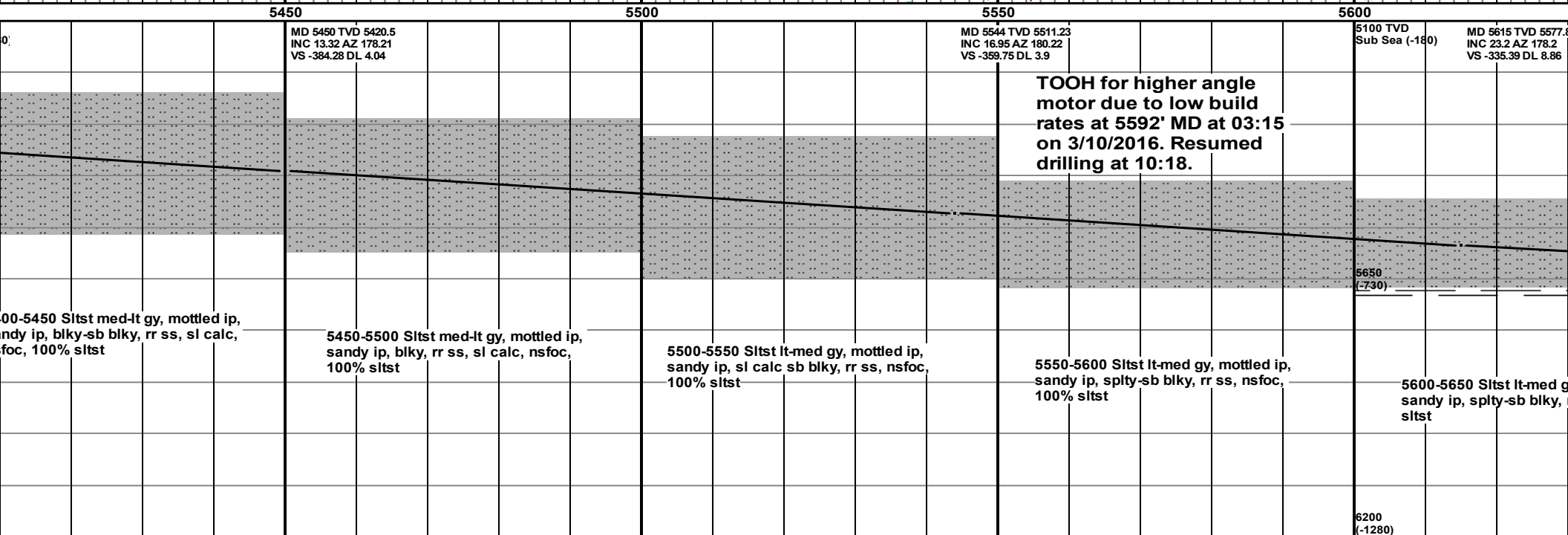
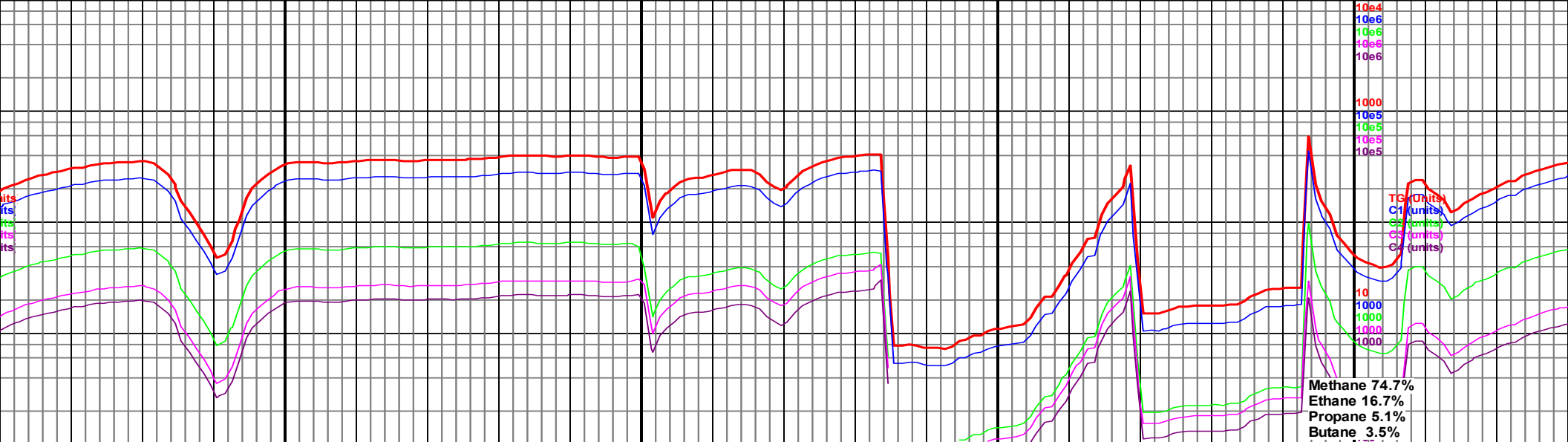
[V] Vuggy  
  
**SORTING**  
[W] Well  
[M] Moderate  
[P] Poor

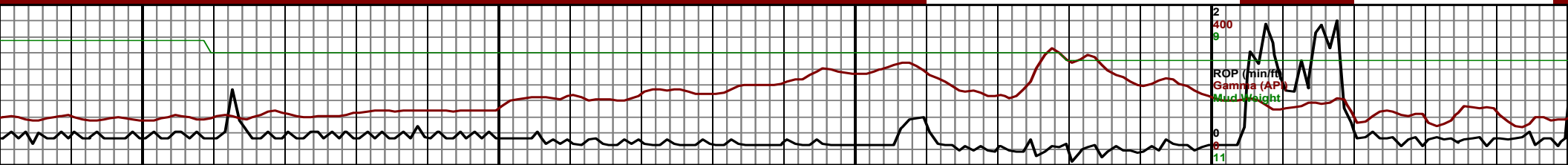
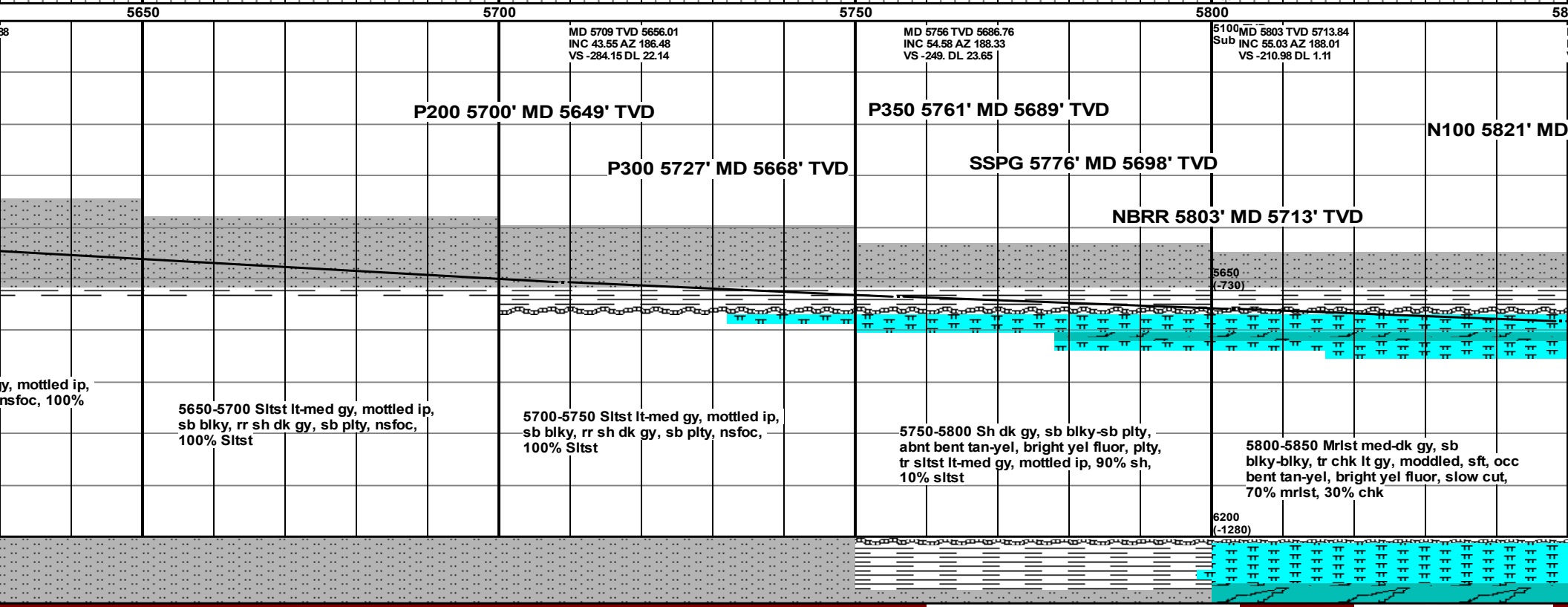
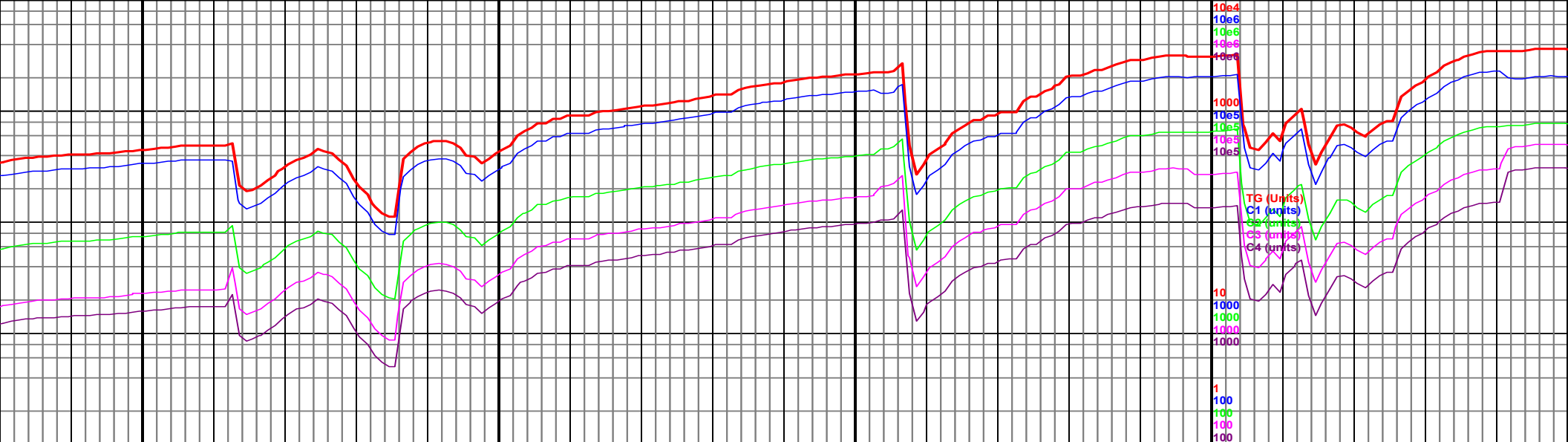
**OTHER SYMBOLS**  
**ROUNDING**  
[R] Rounded  
[r] Subrnd  
[a] Subang  
[A] Angular  
  
**OIL SHOW**  
[●] Even  
  
[●] Spotted  
[○] Ques  
[D] Dead  
  
**INTERVAL**  
[■] Core  
[◼] Dst

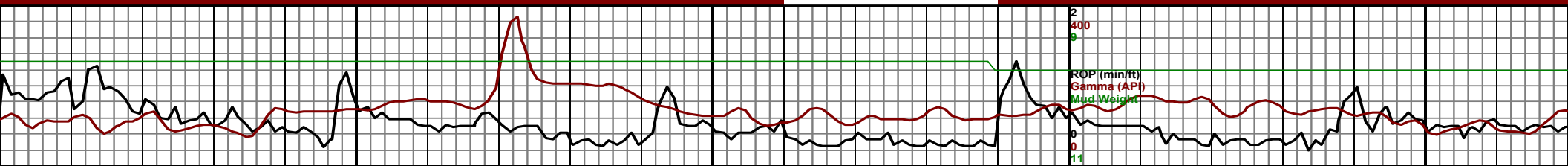
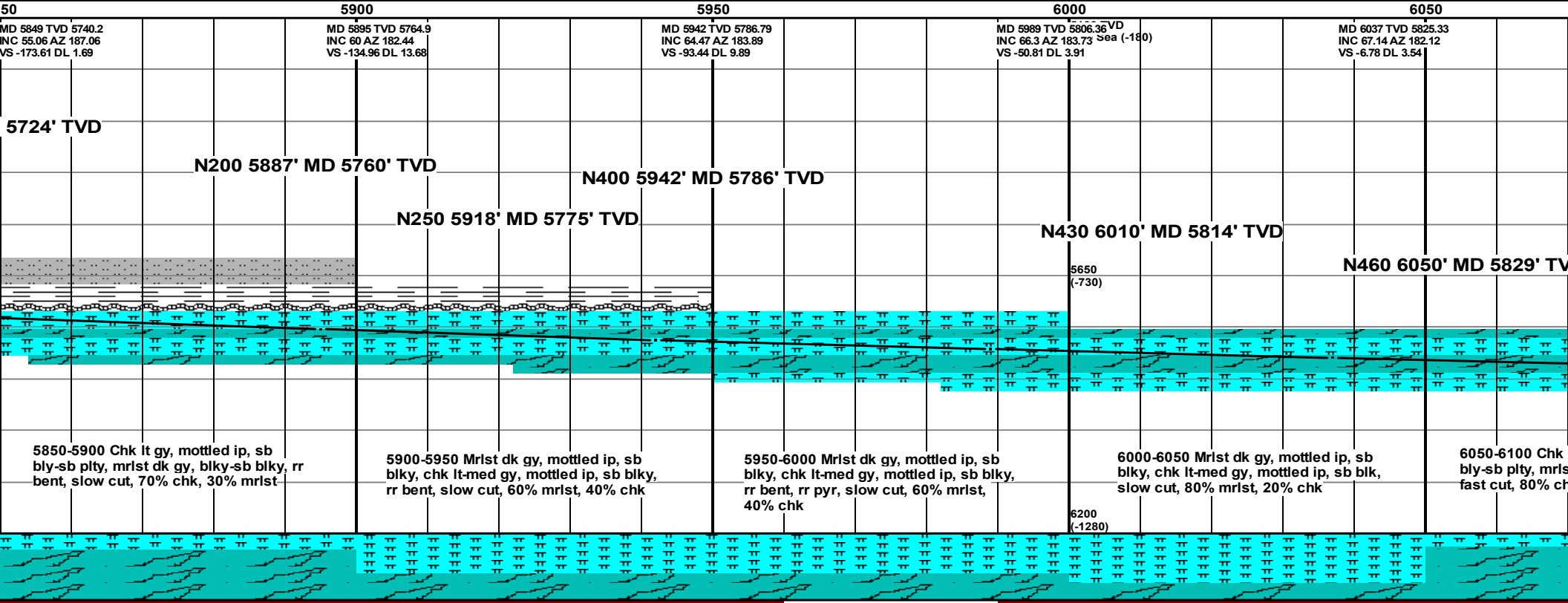
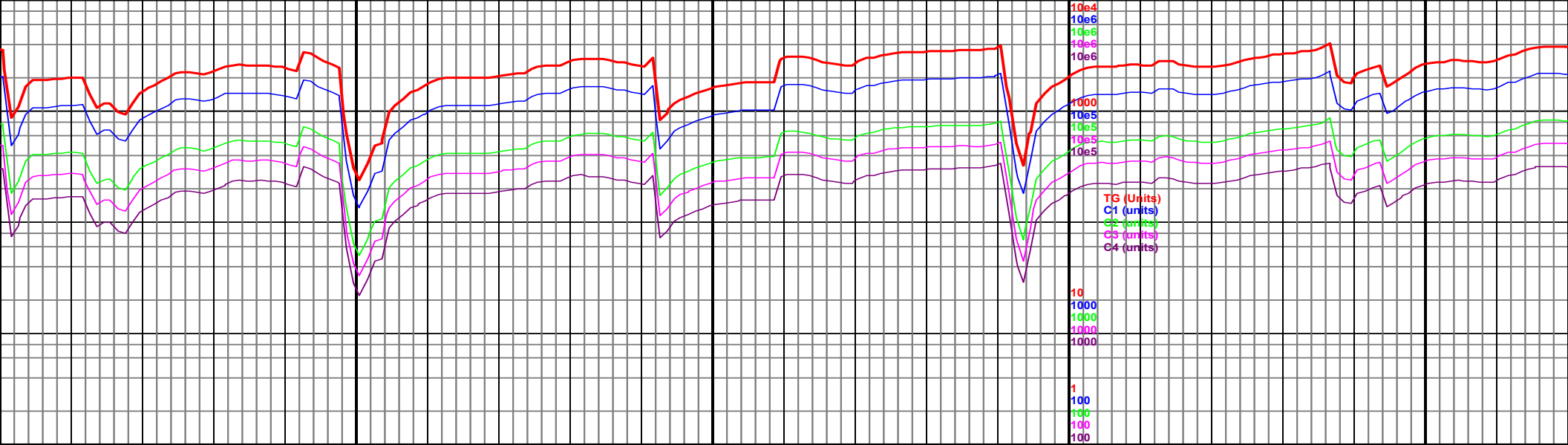
**EVENT**  
[▽] Rft  
[▶] Sidewall

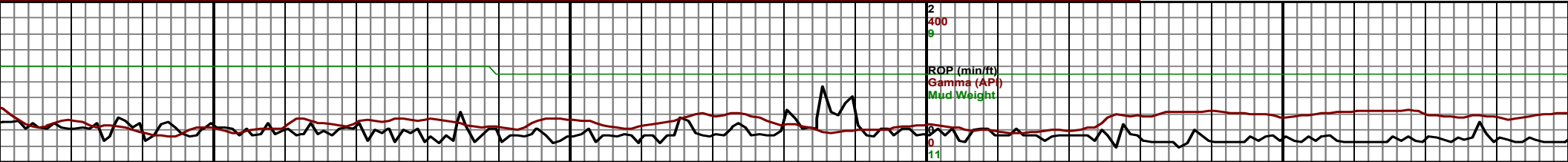
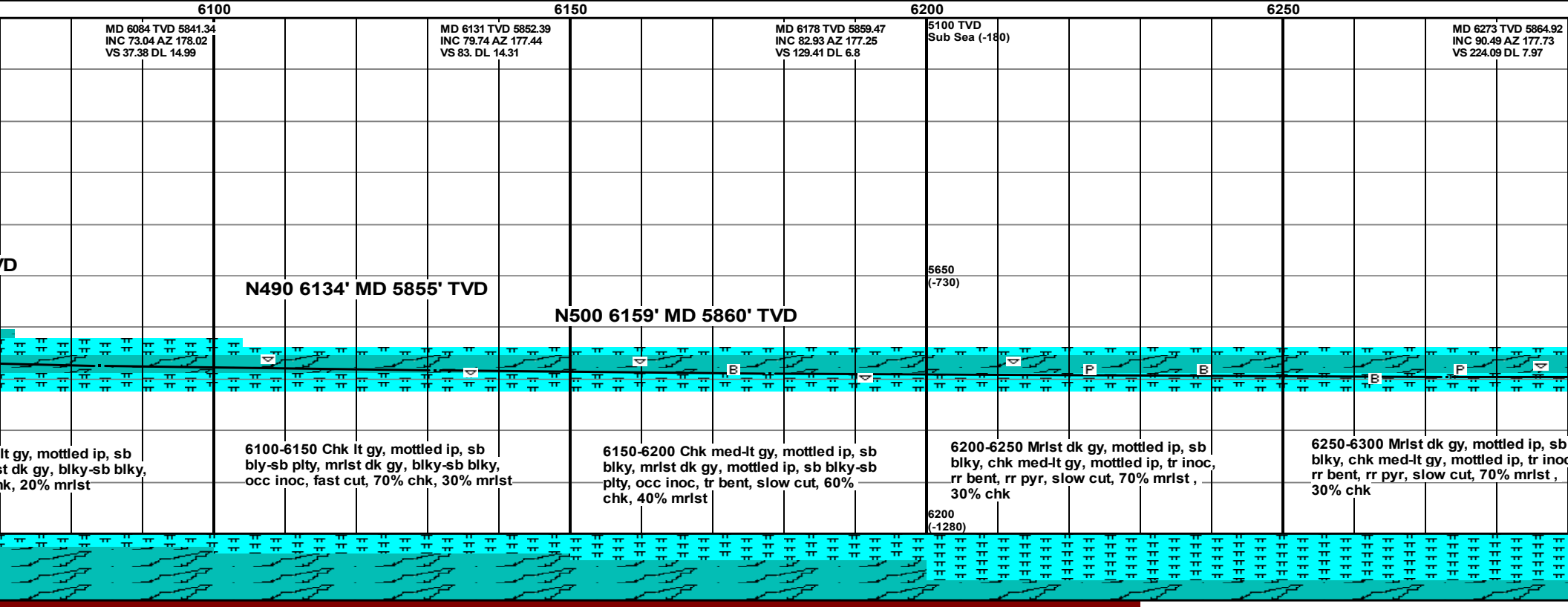
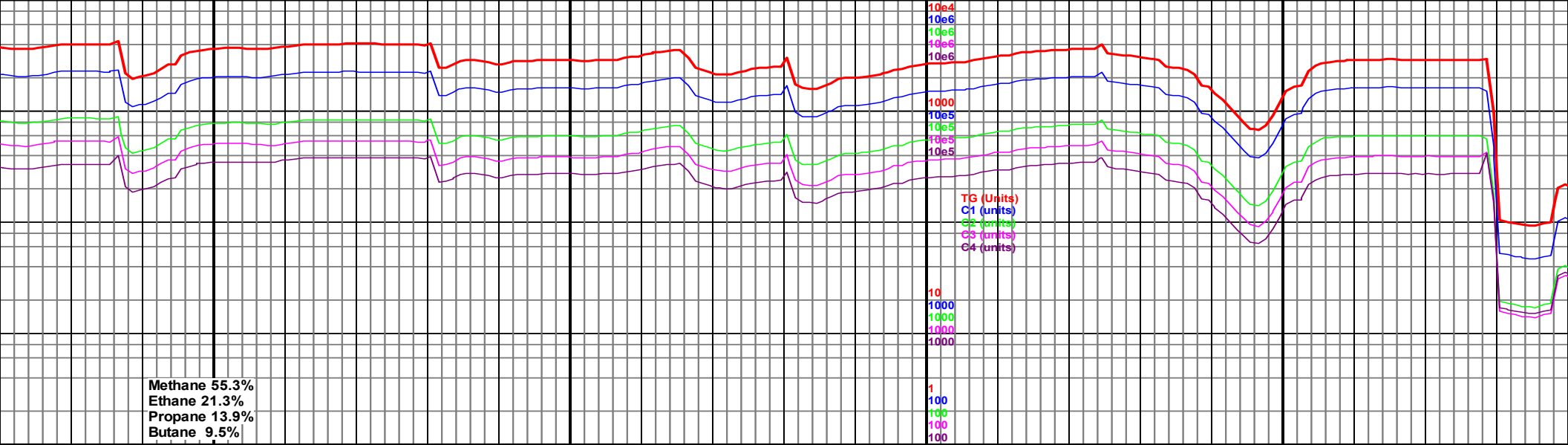


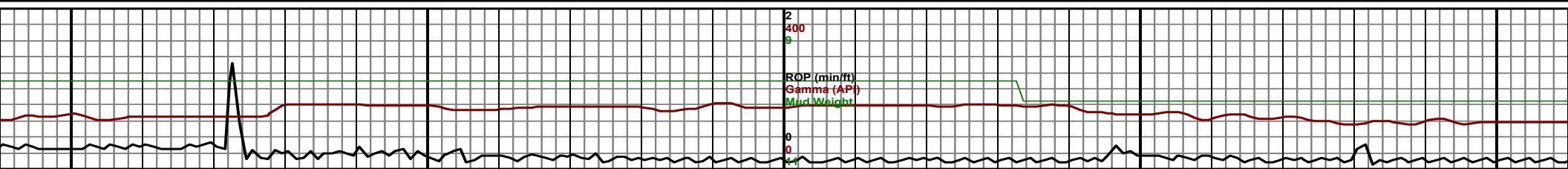
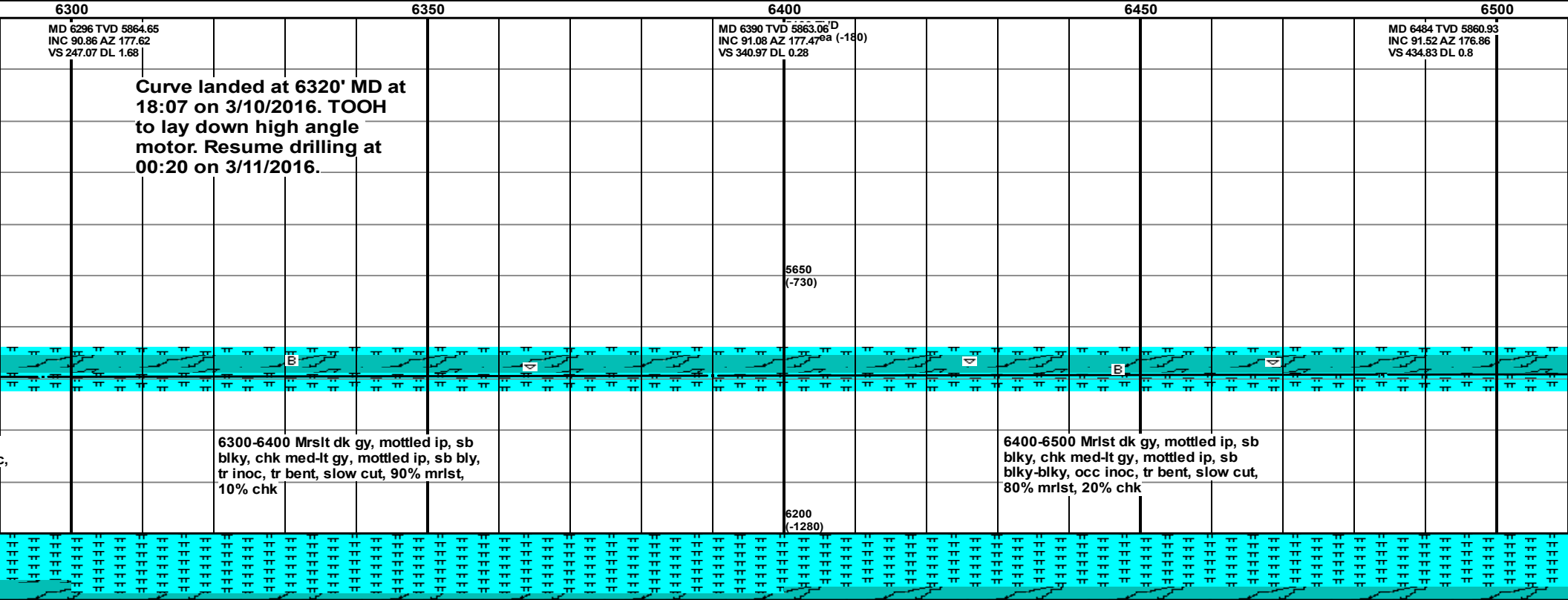
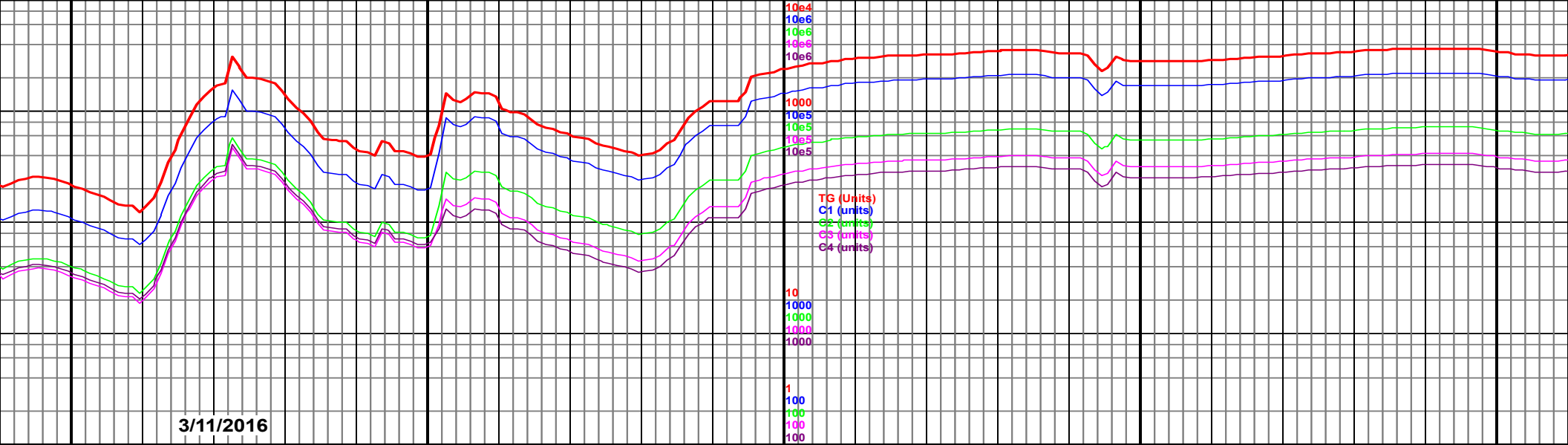


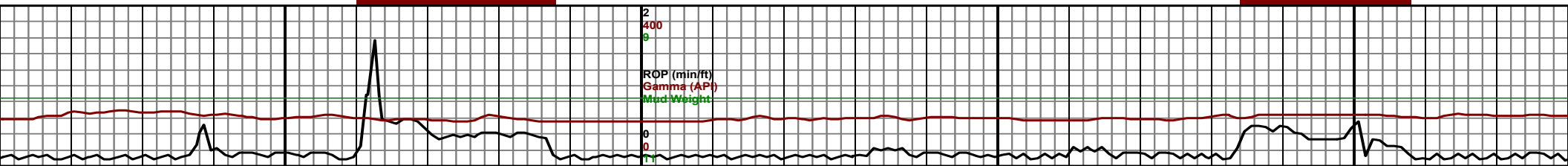
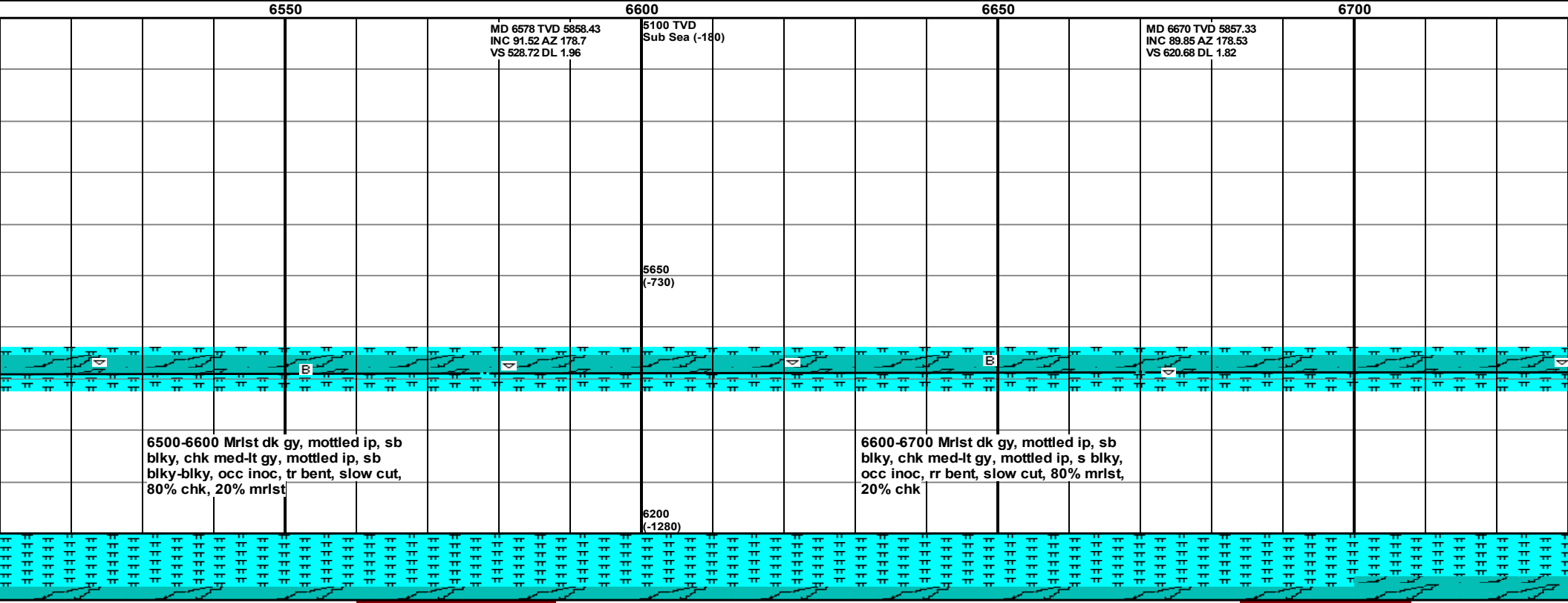
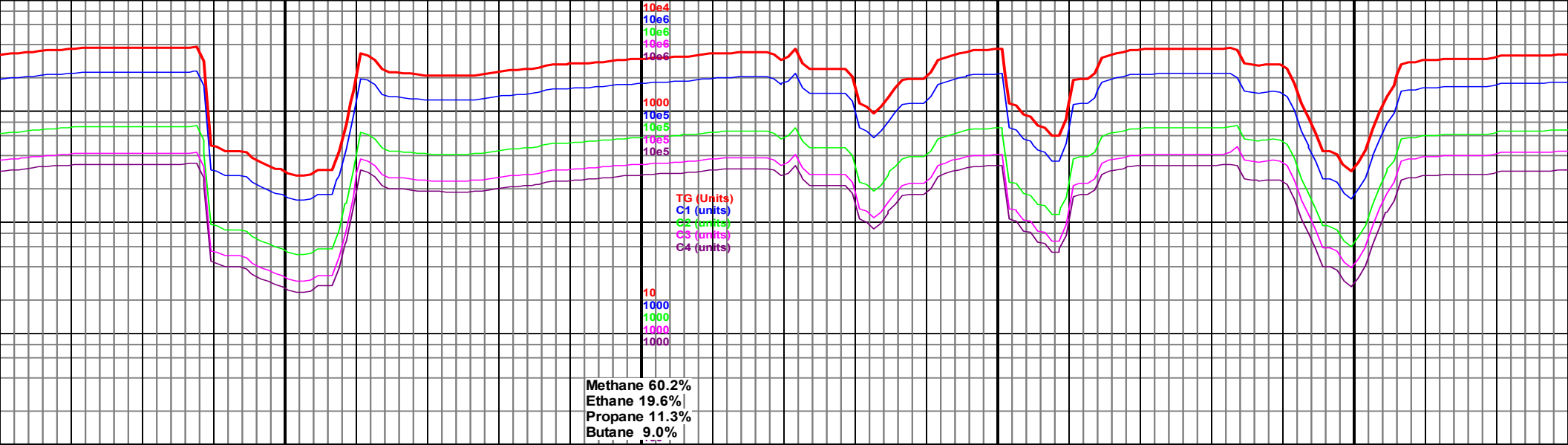


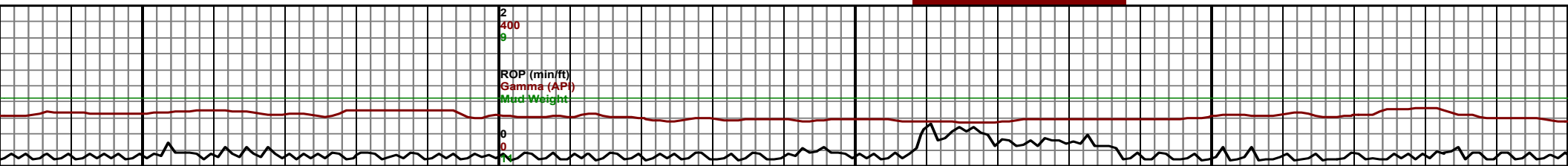
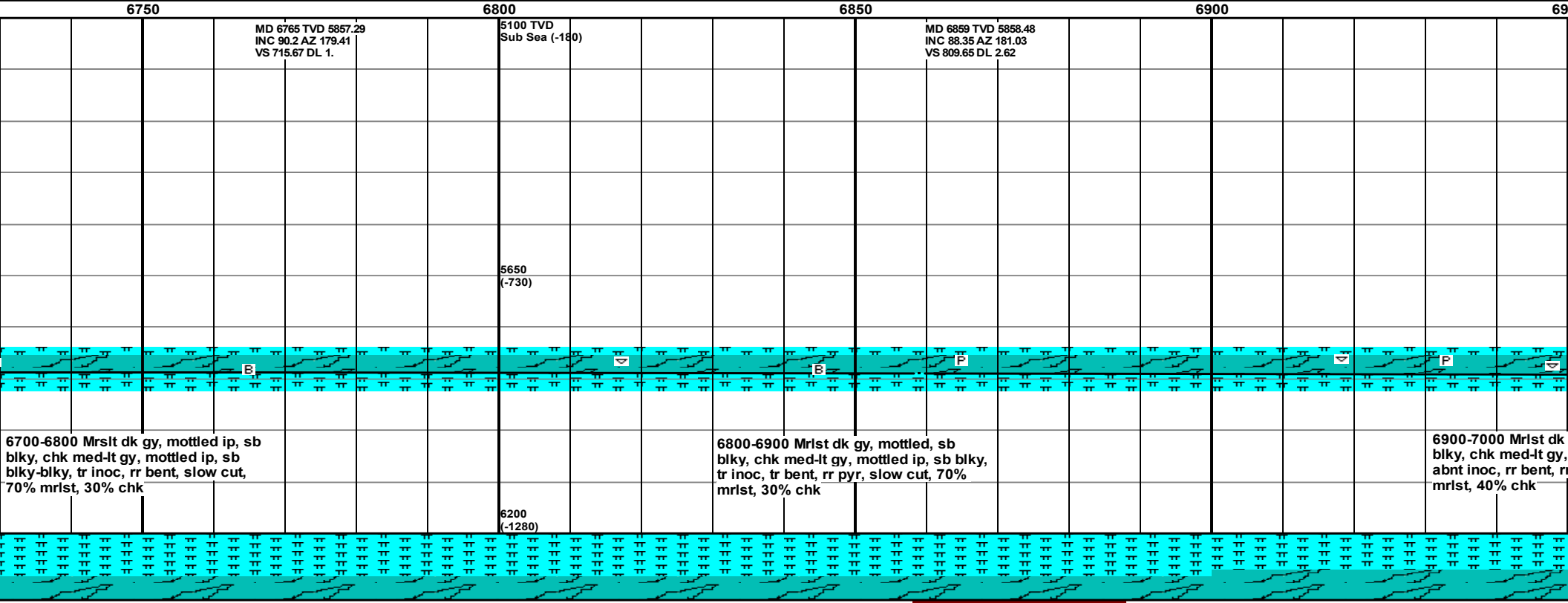
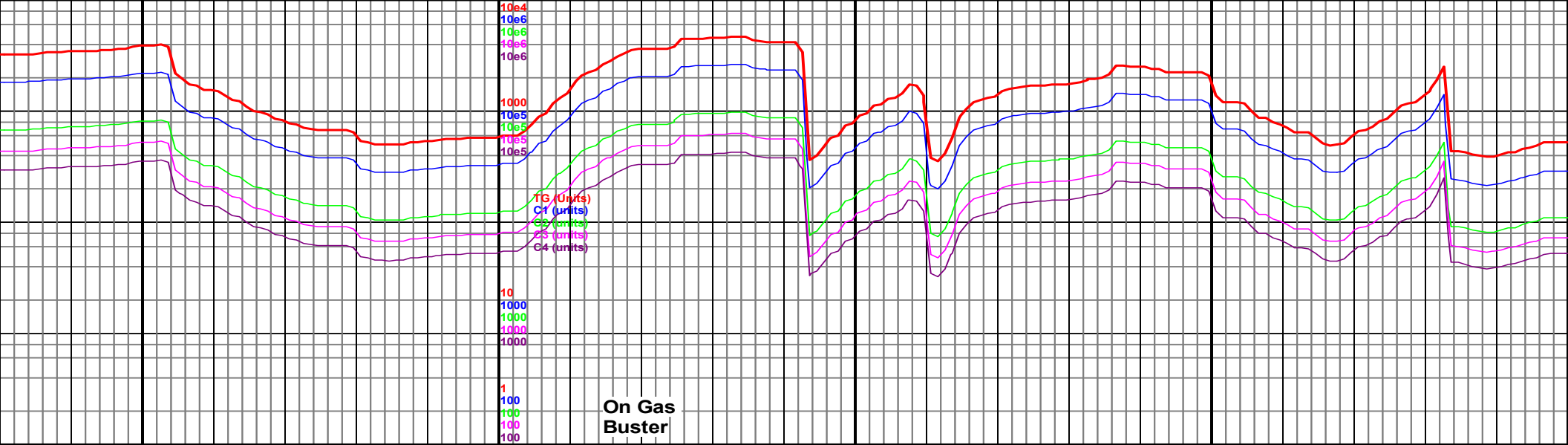


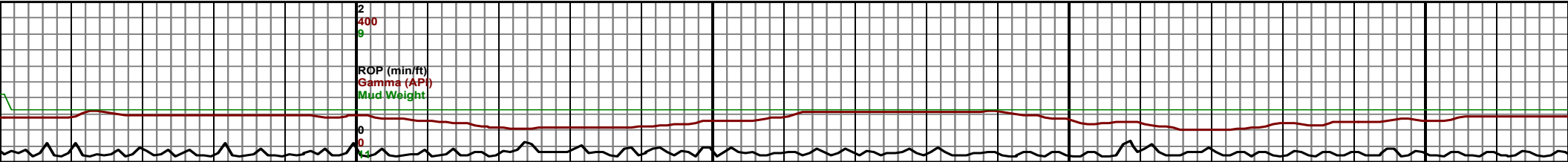
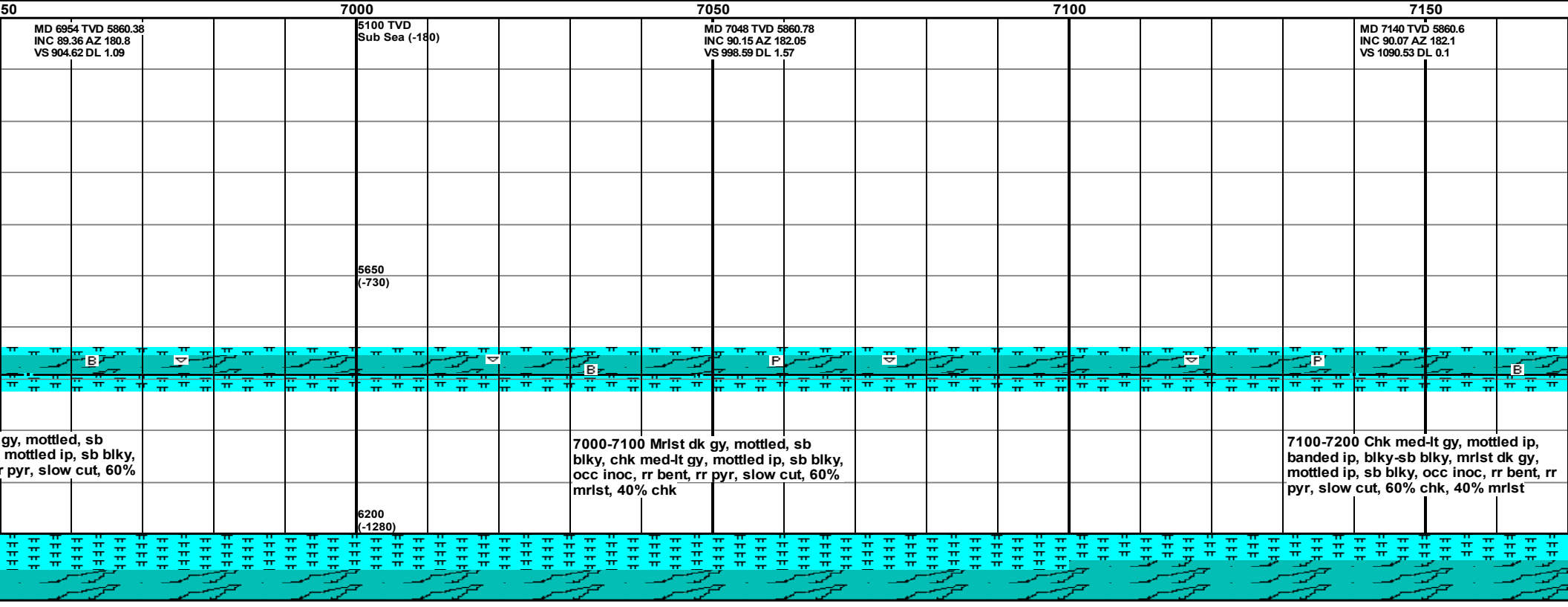
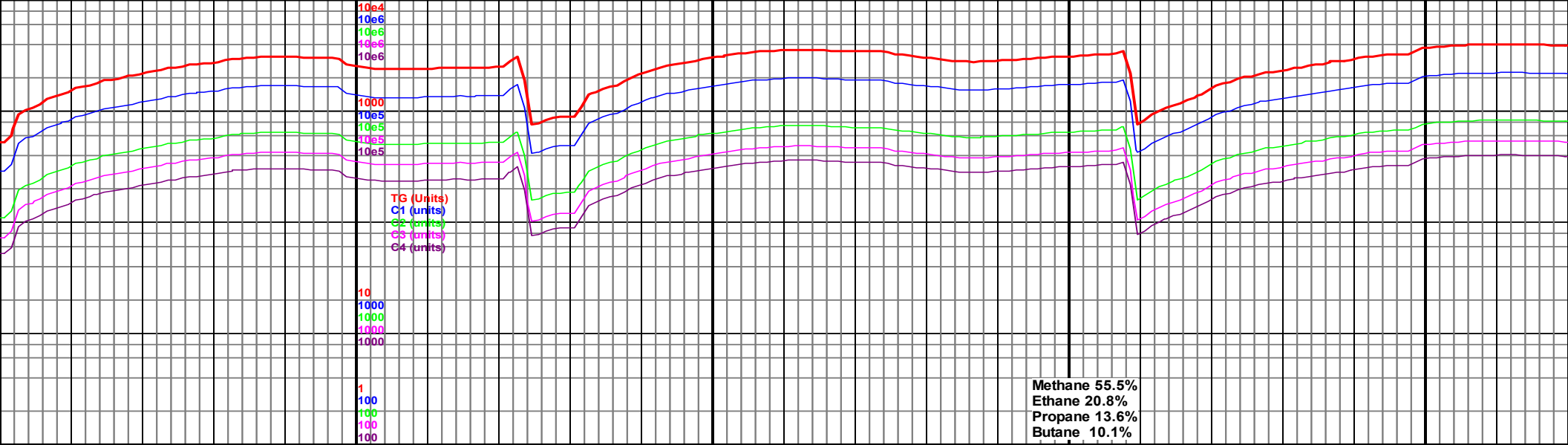


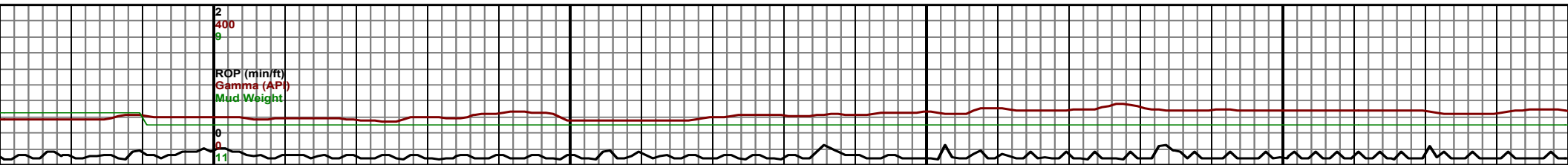
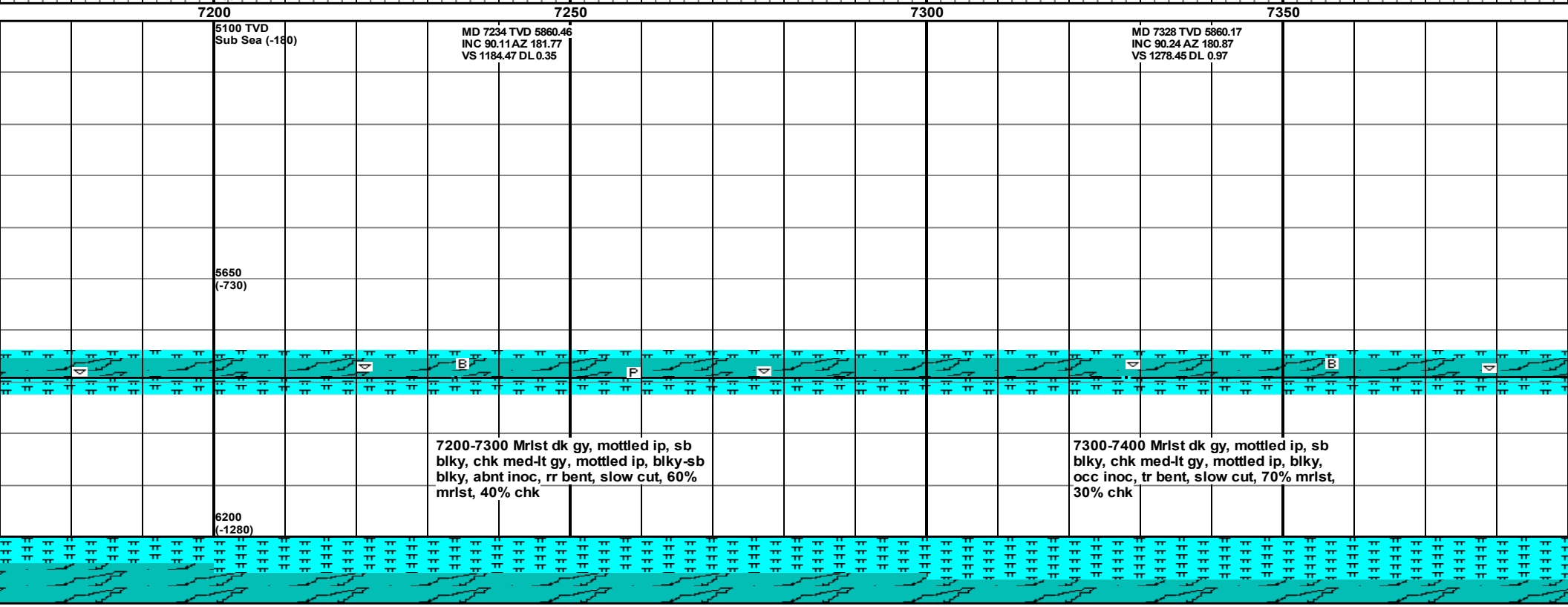
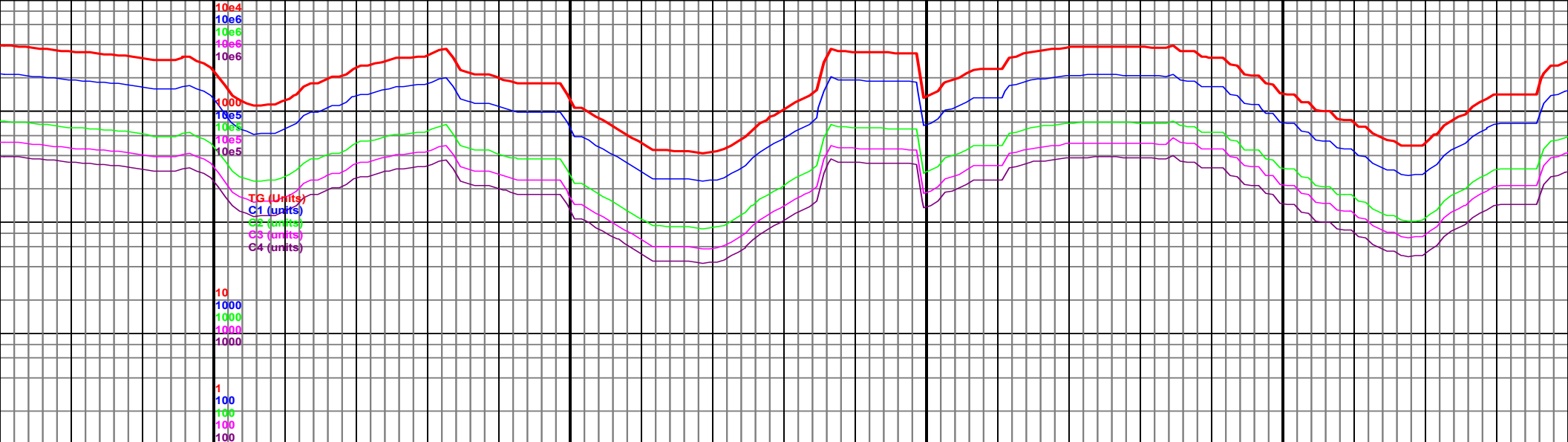


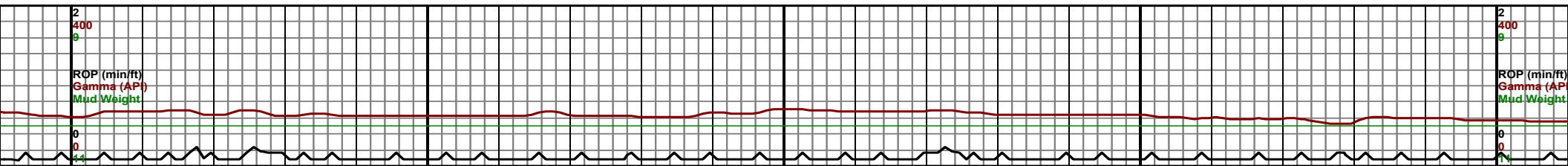
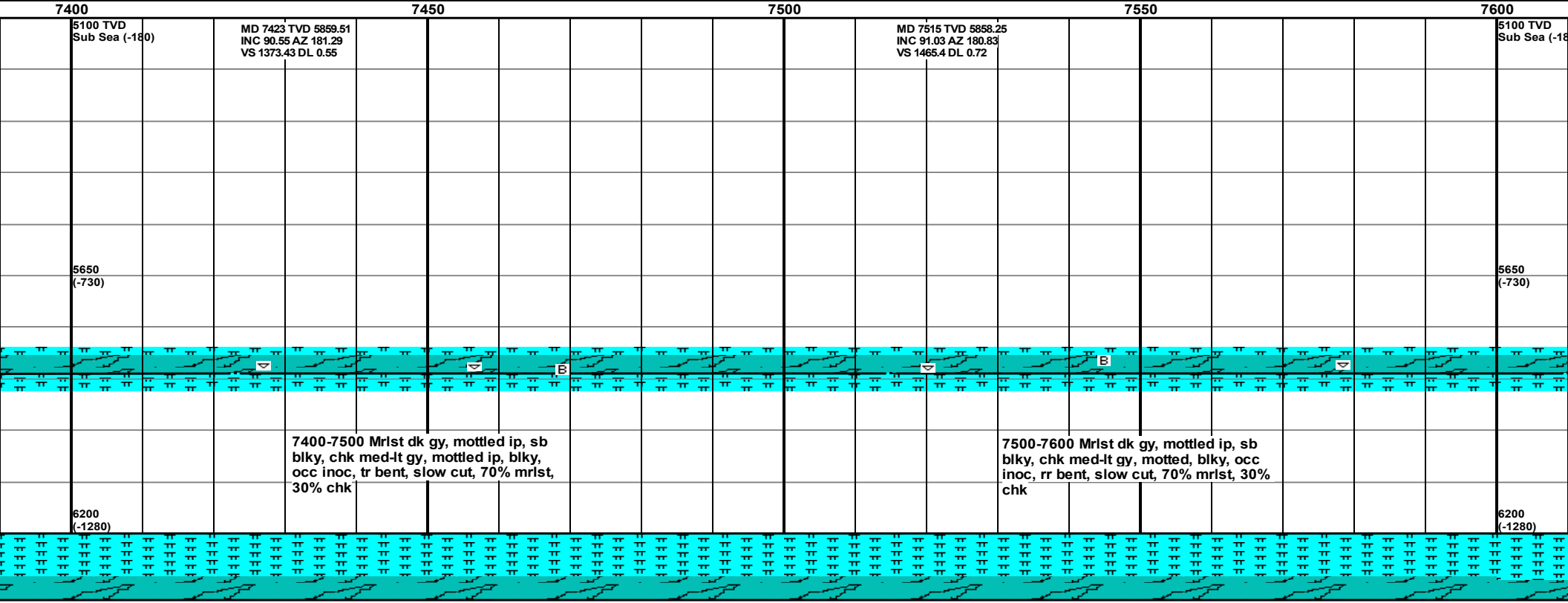
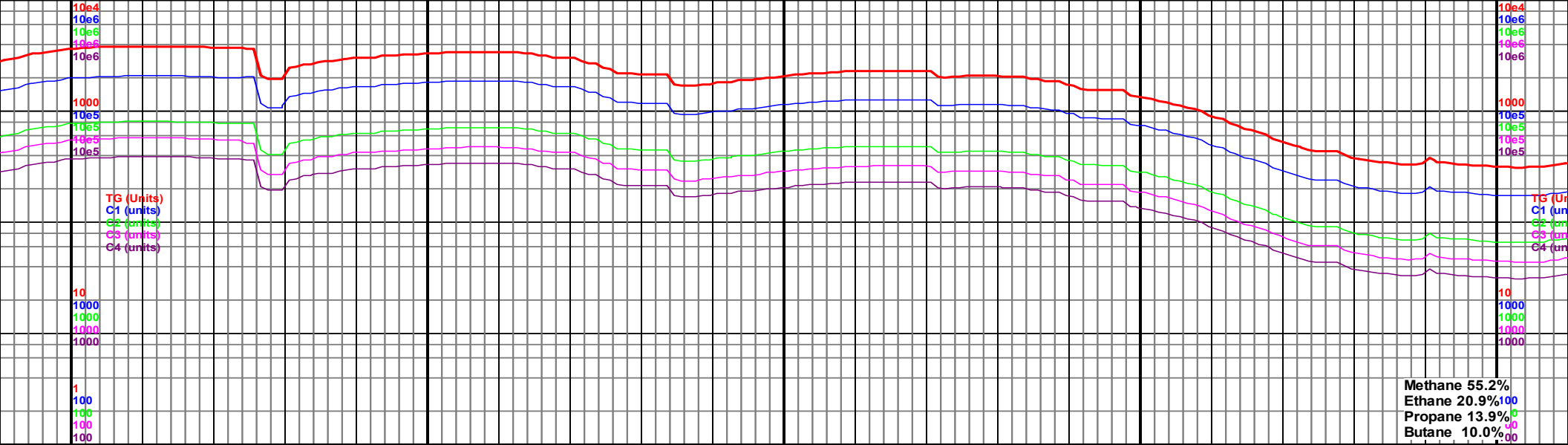


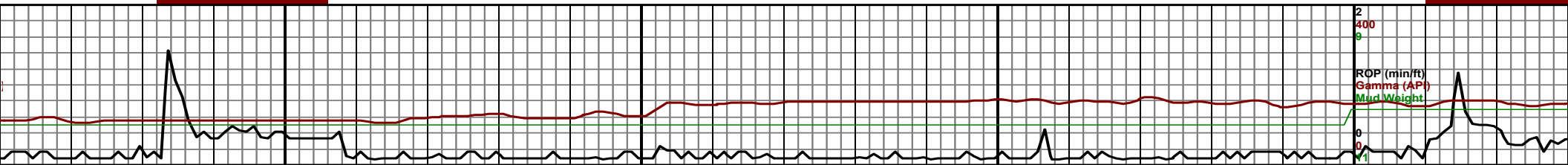
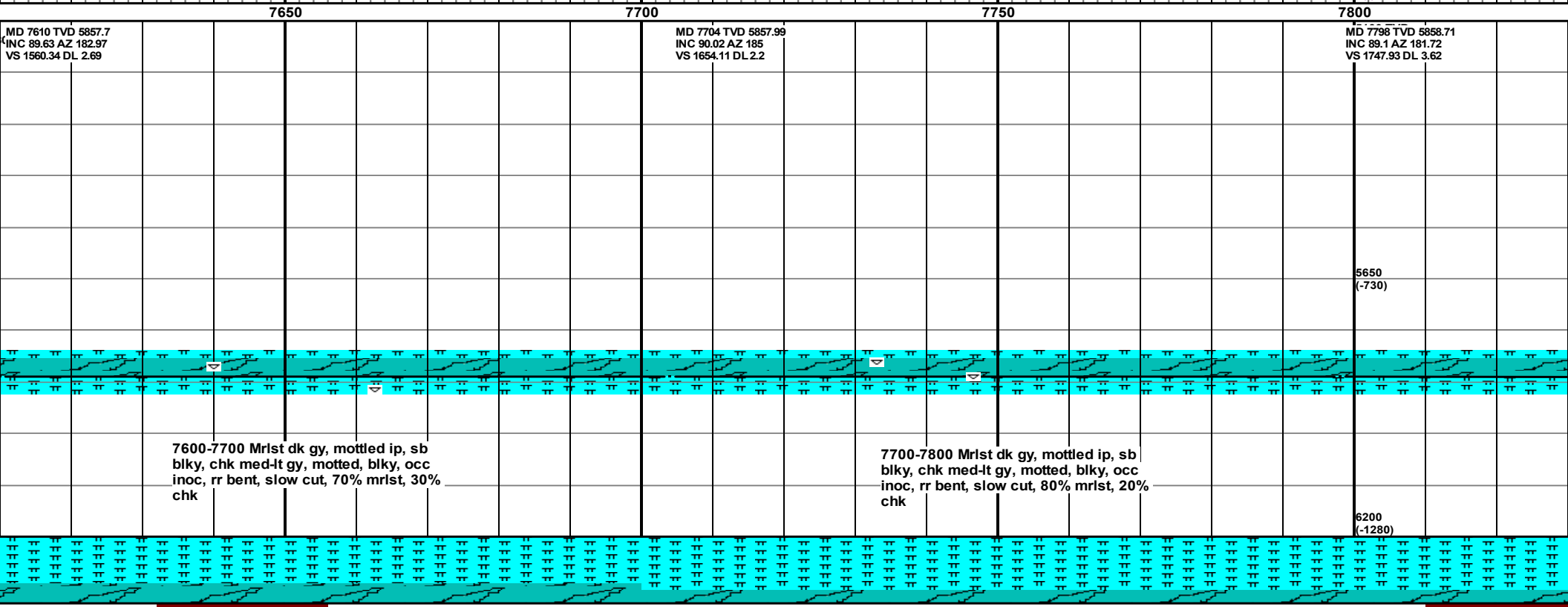
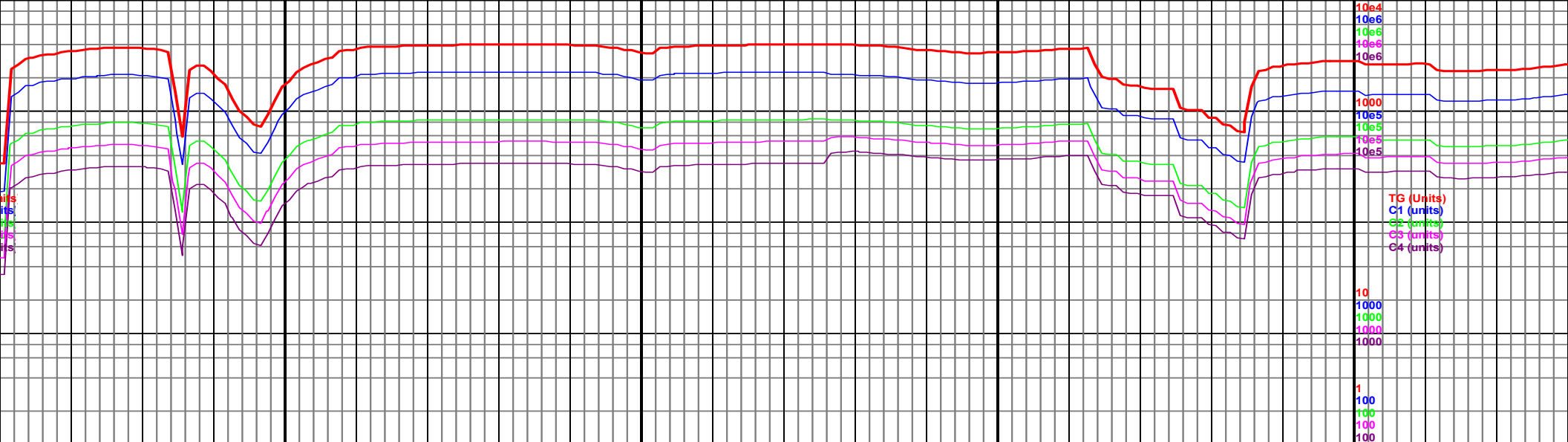


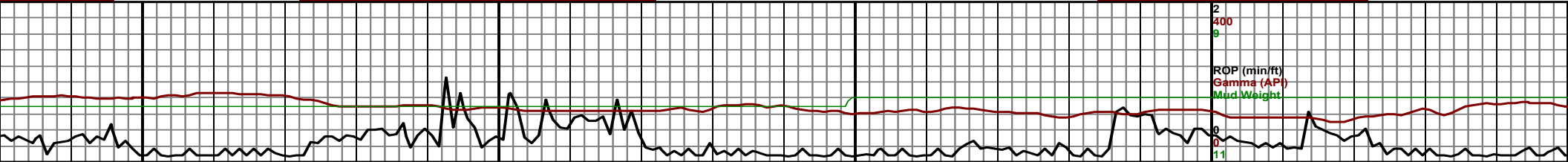
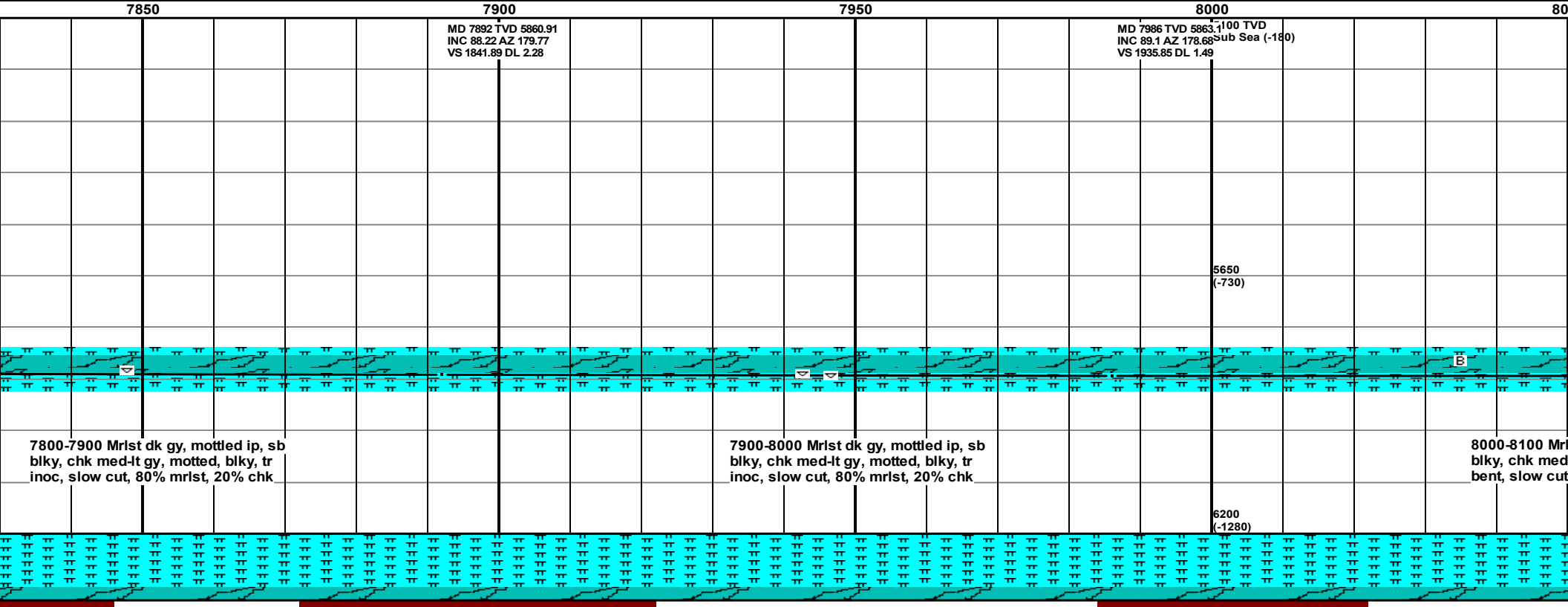
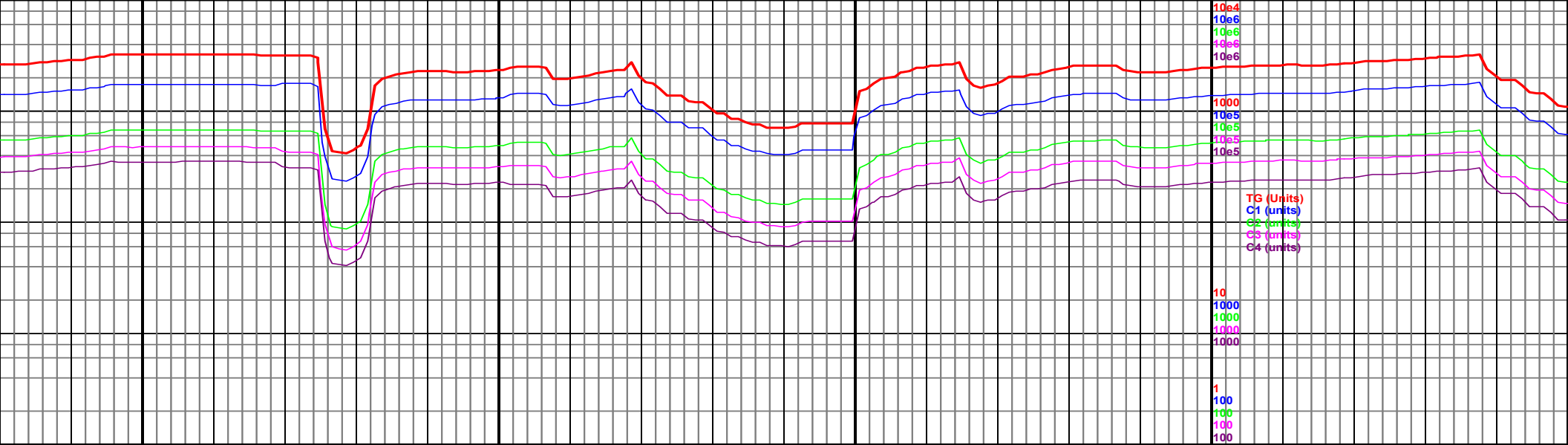


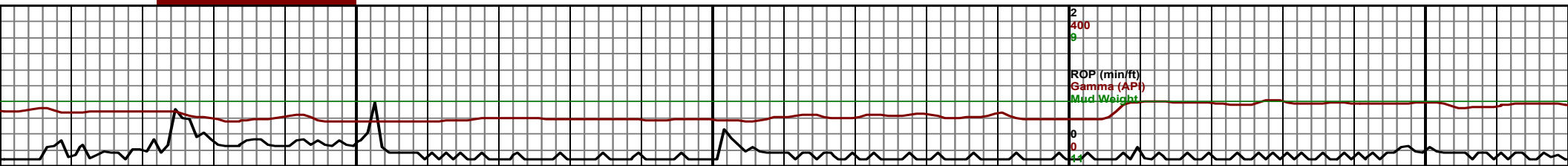
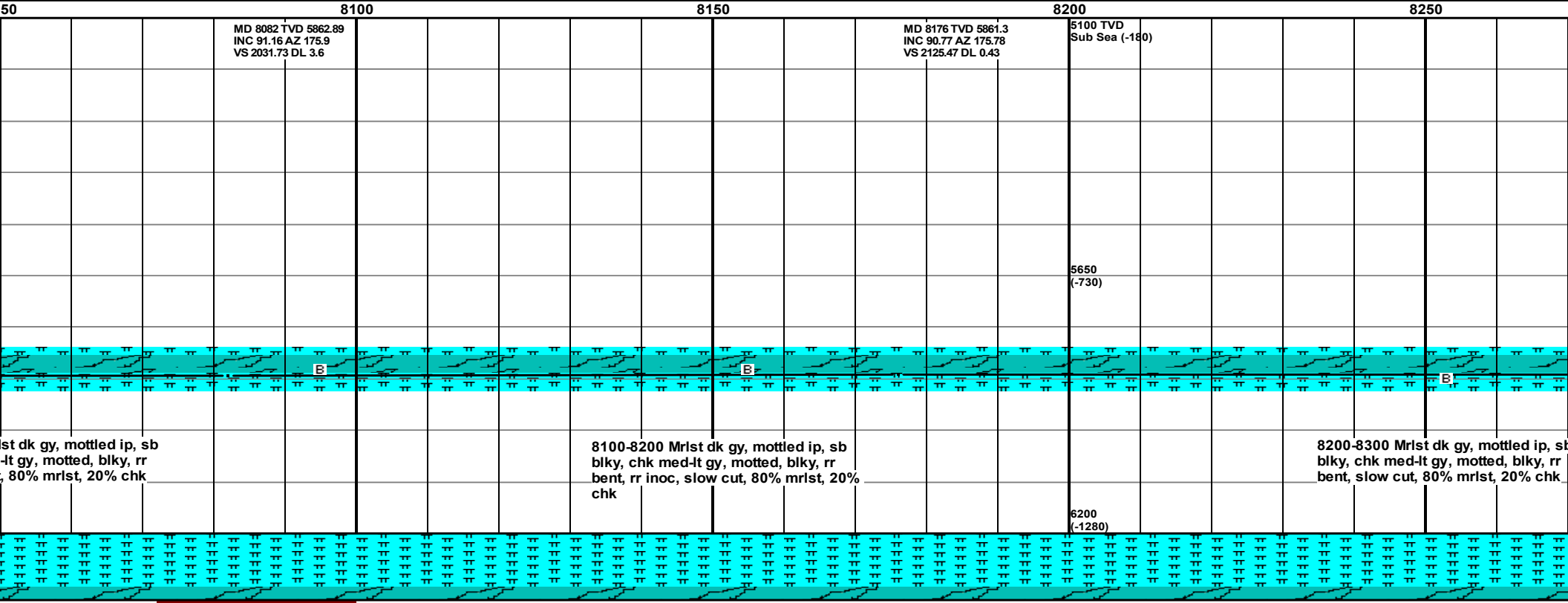
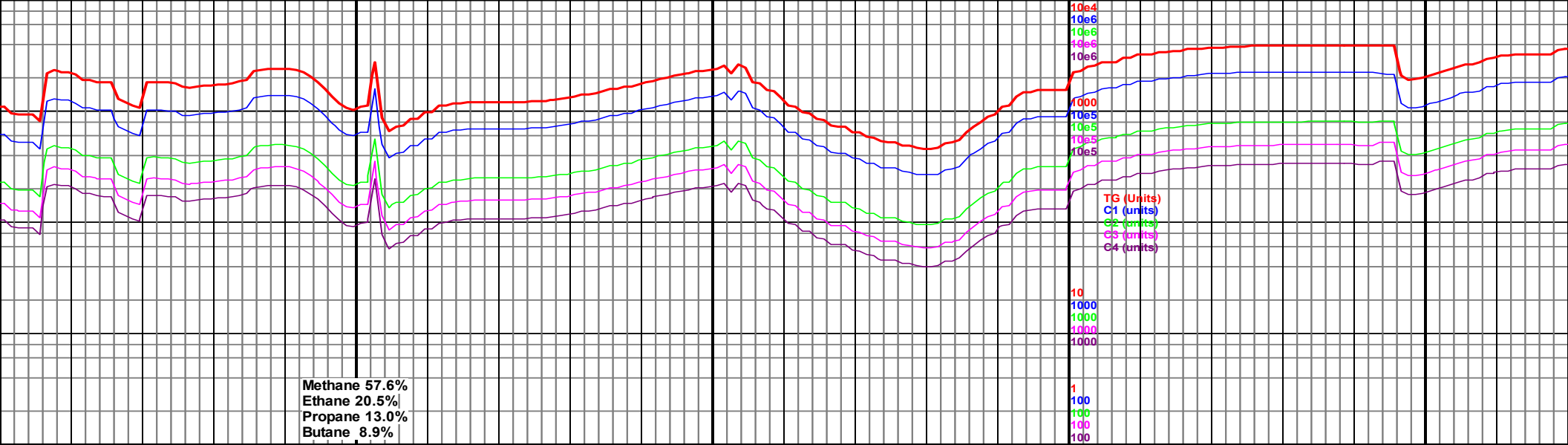


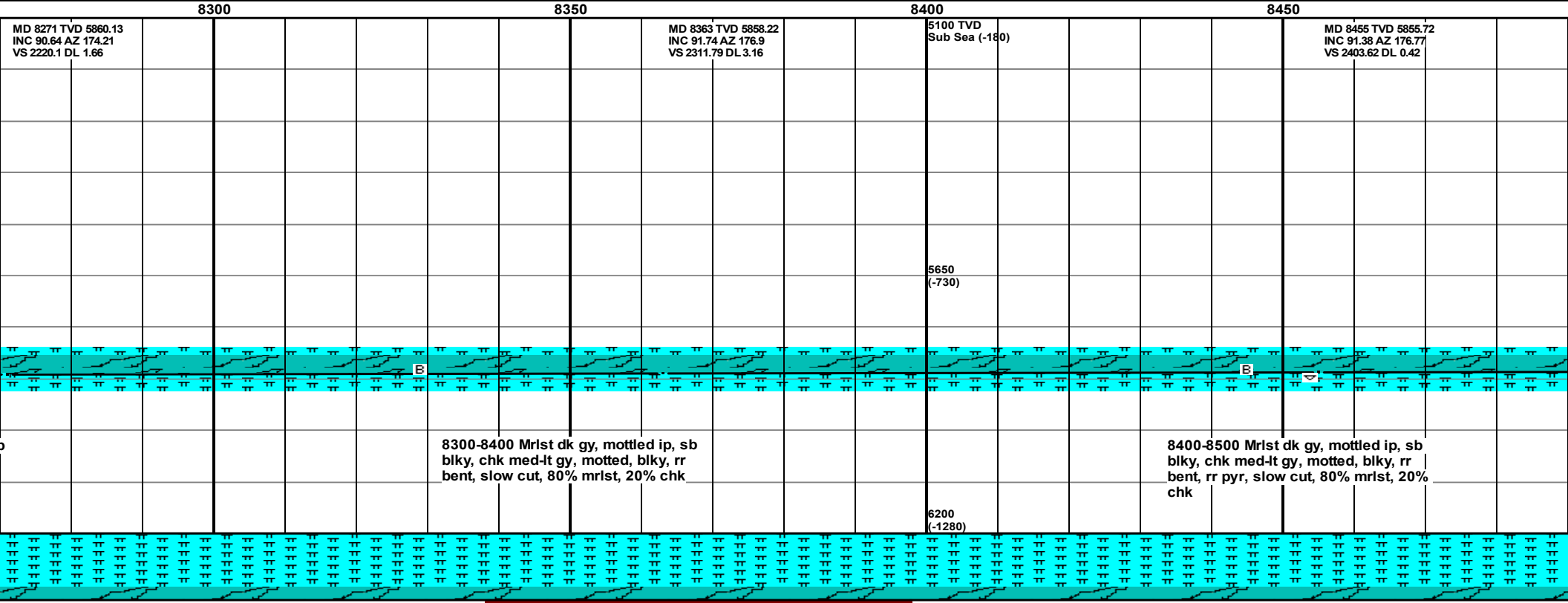
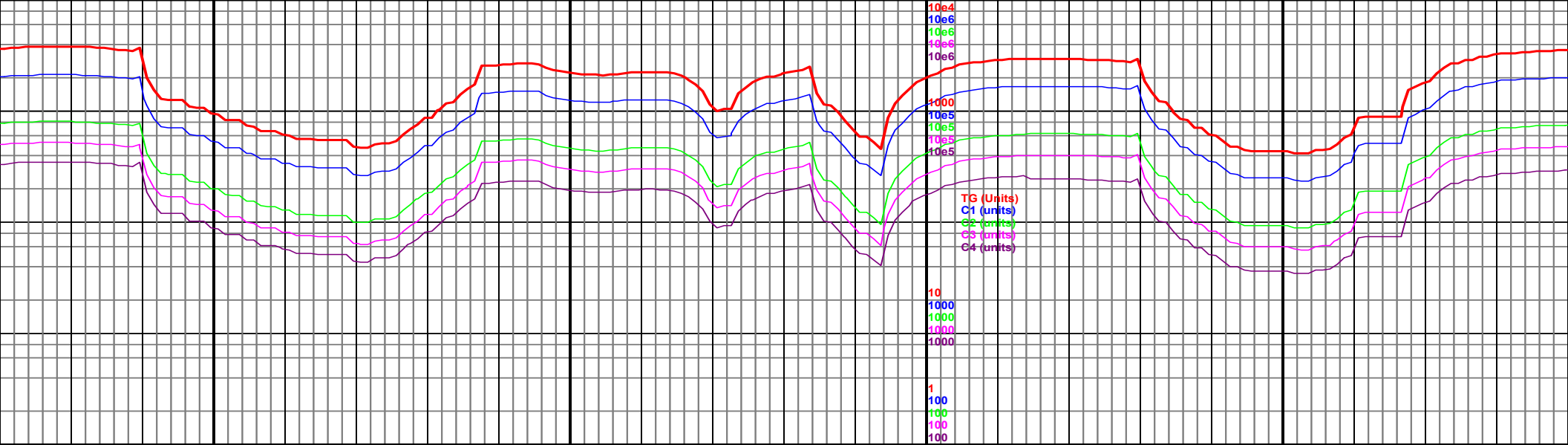




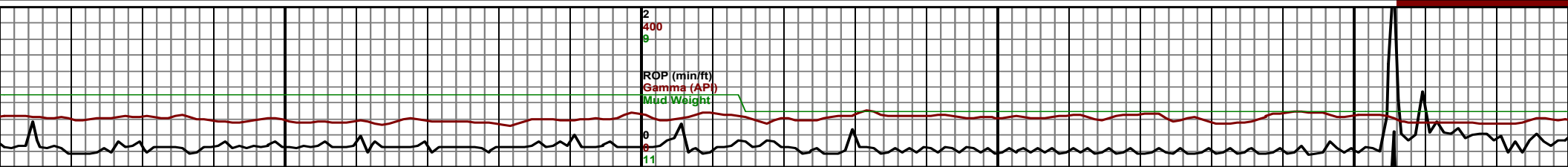
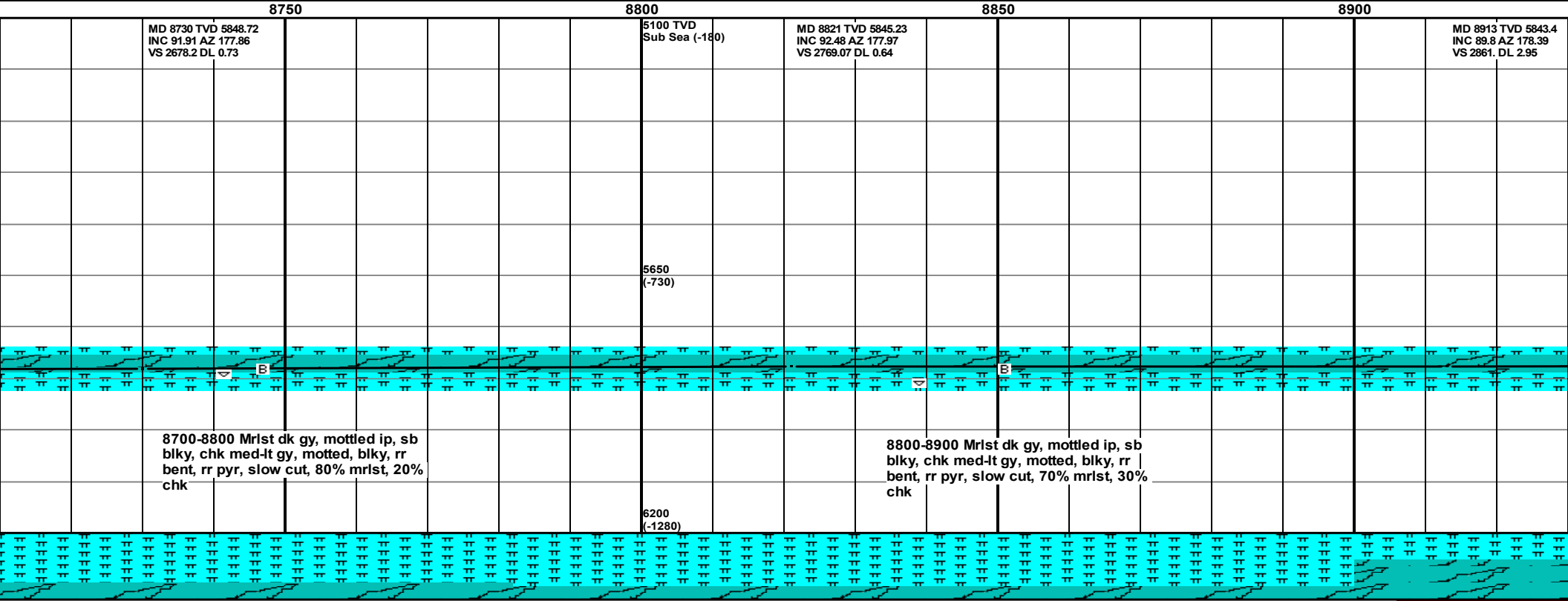
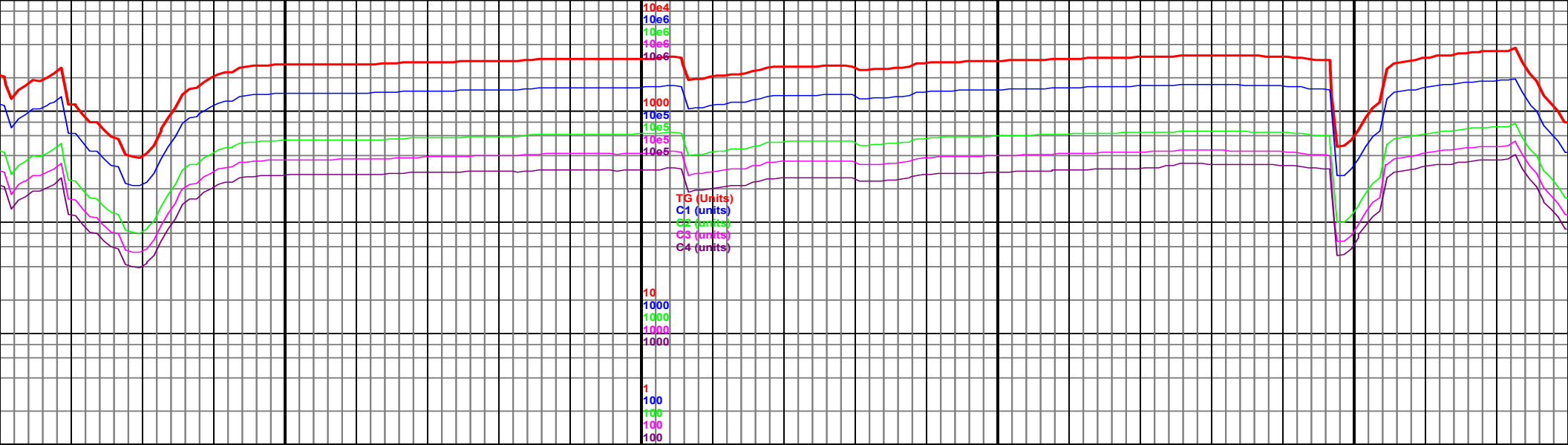


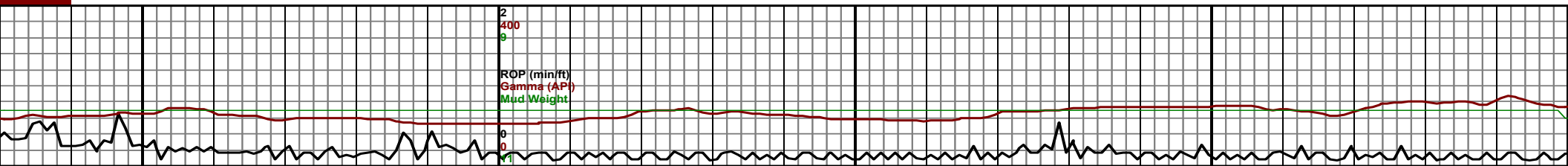
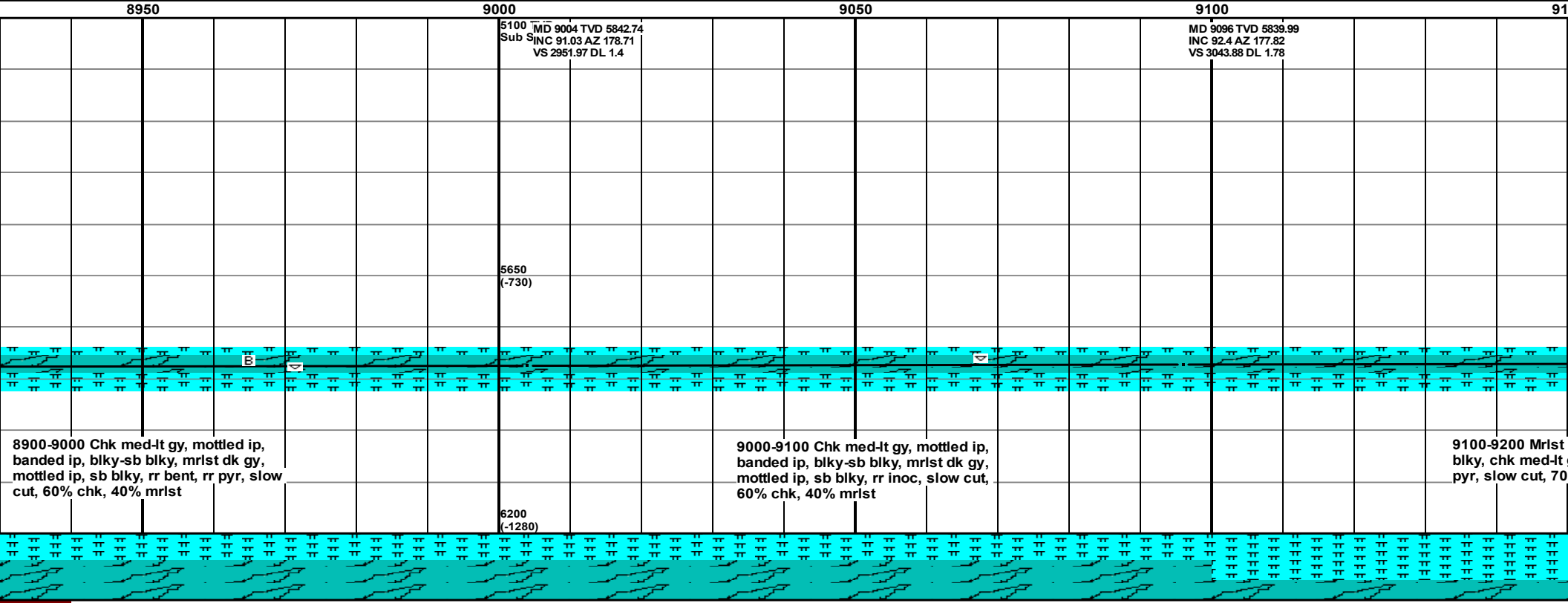
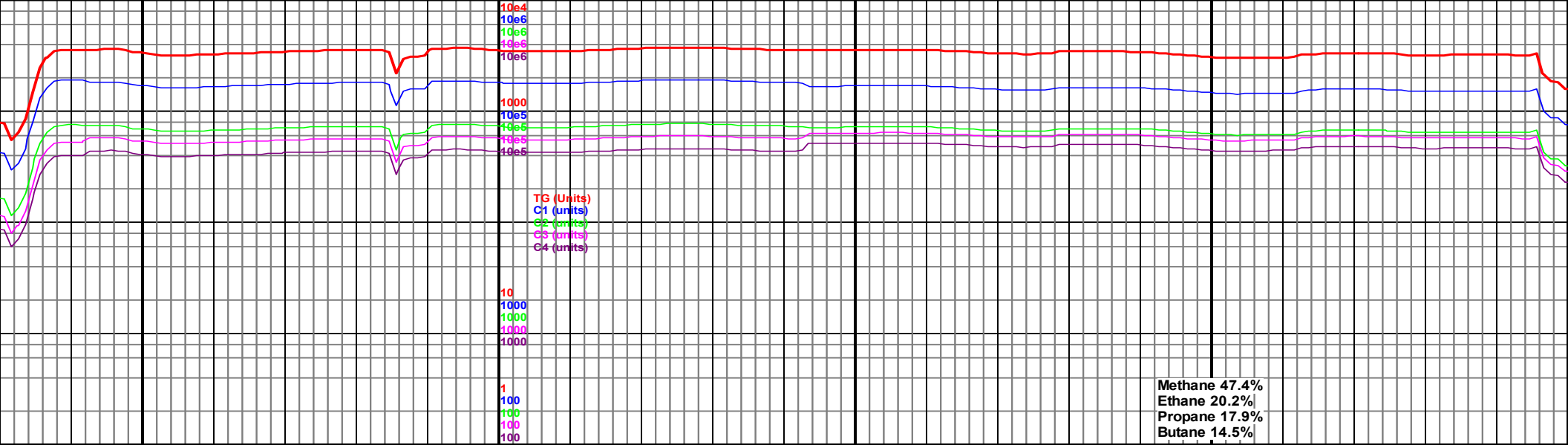


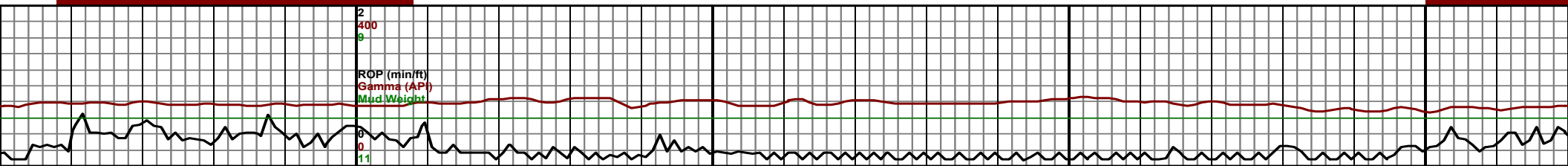
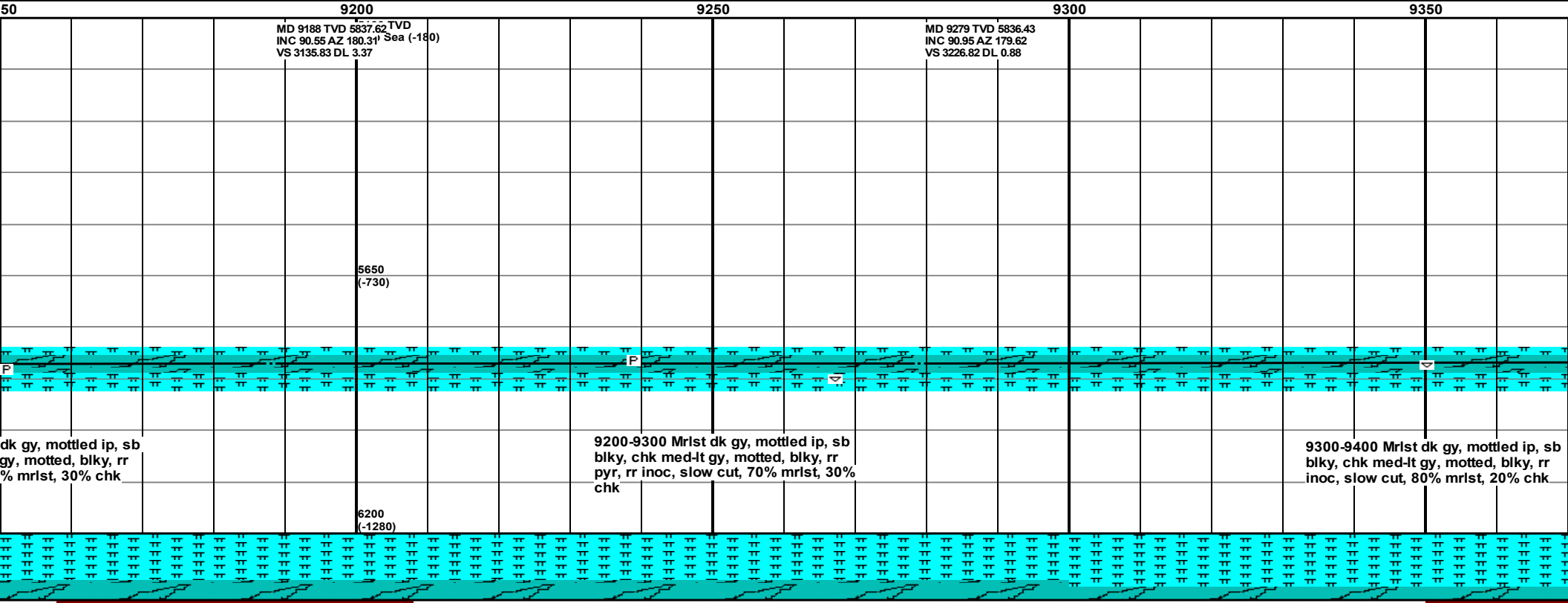
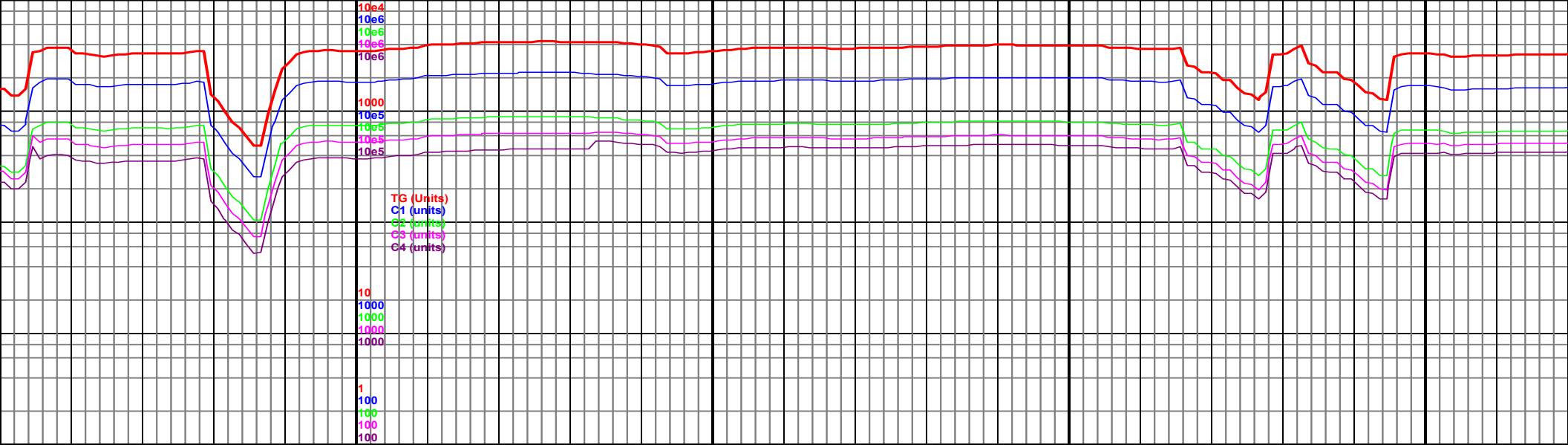


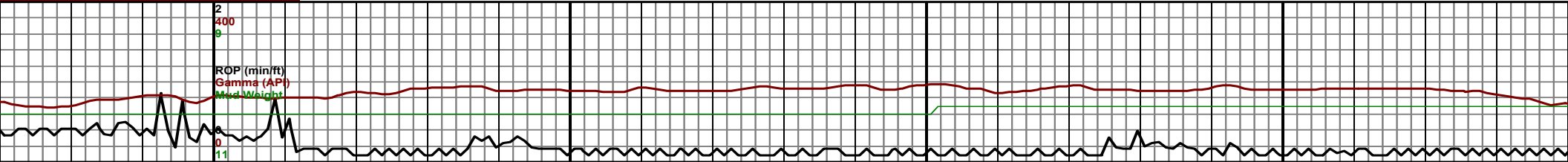
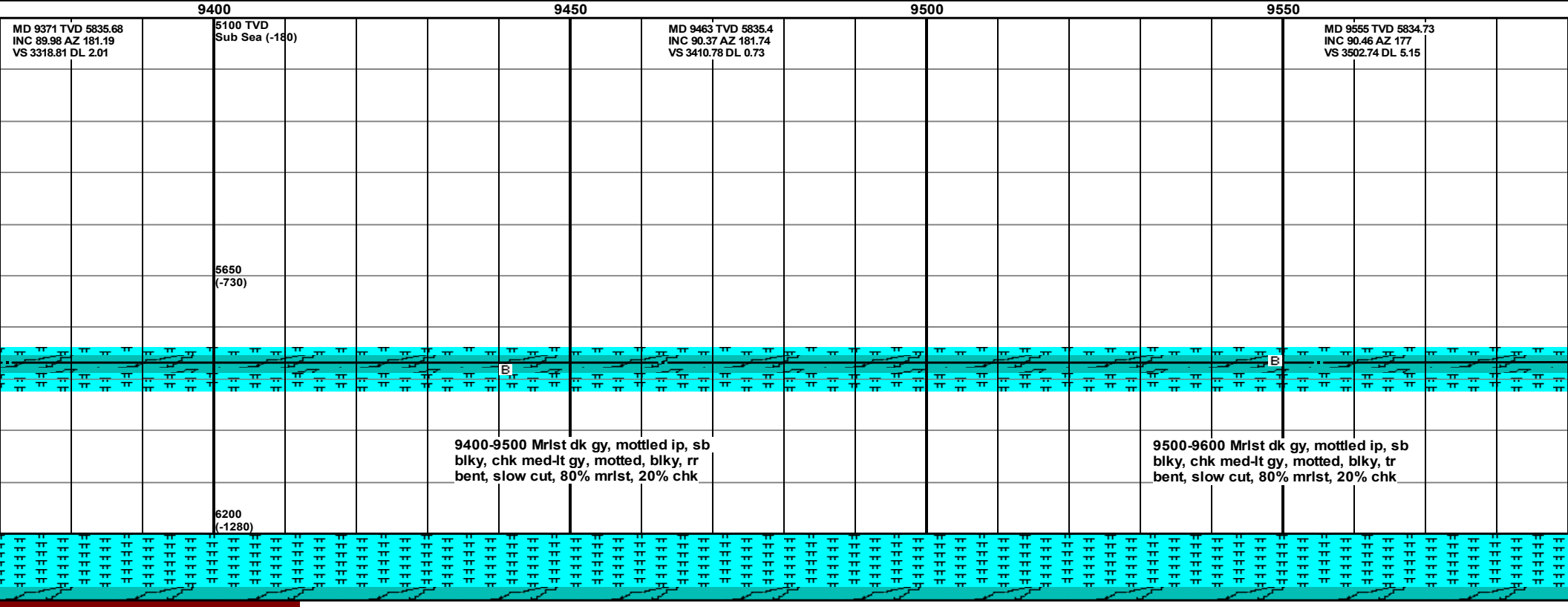
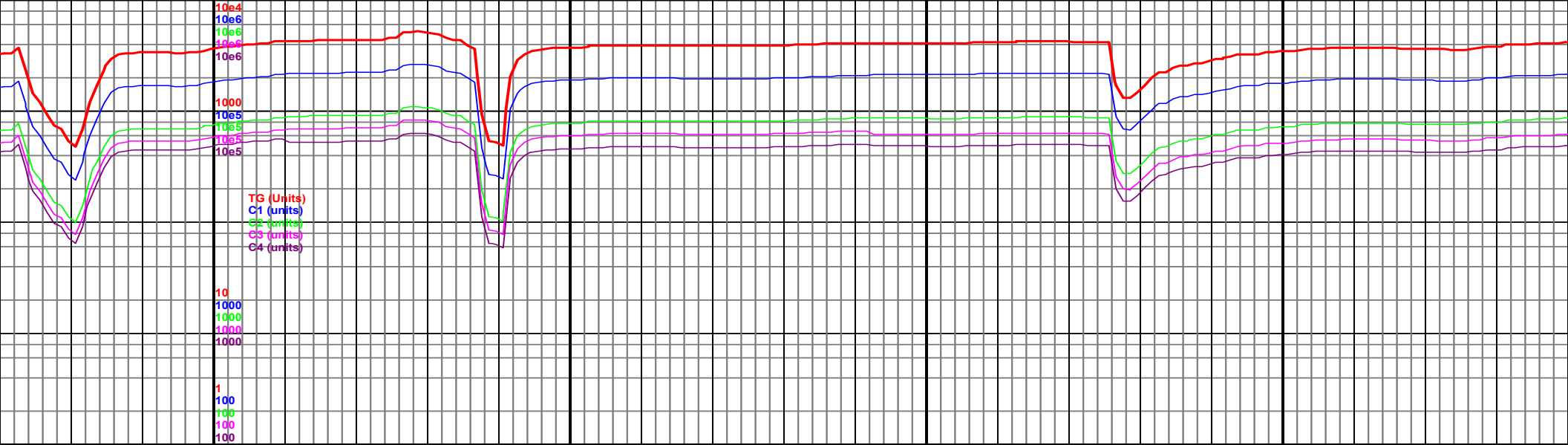


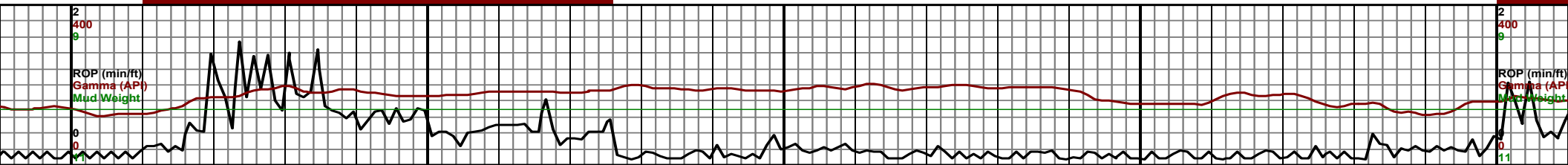
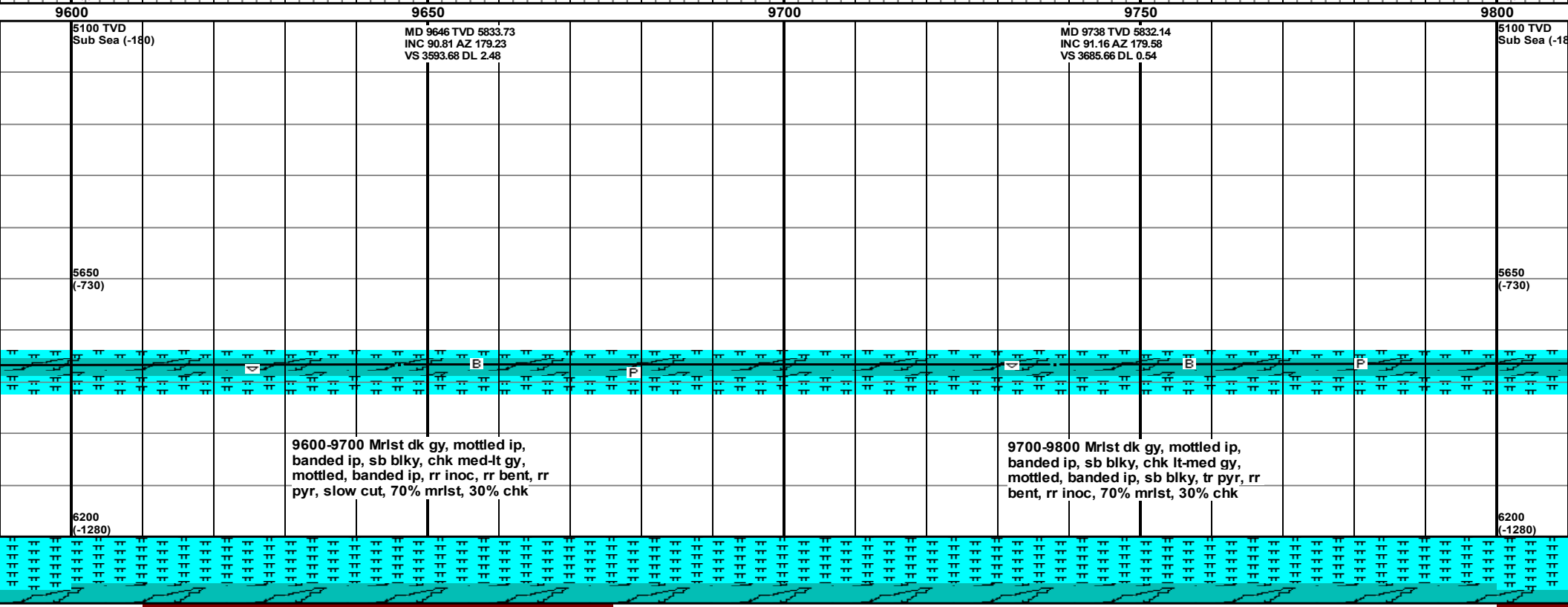
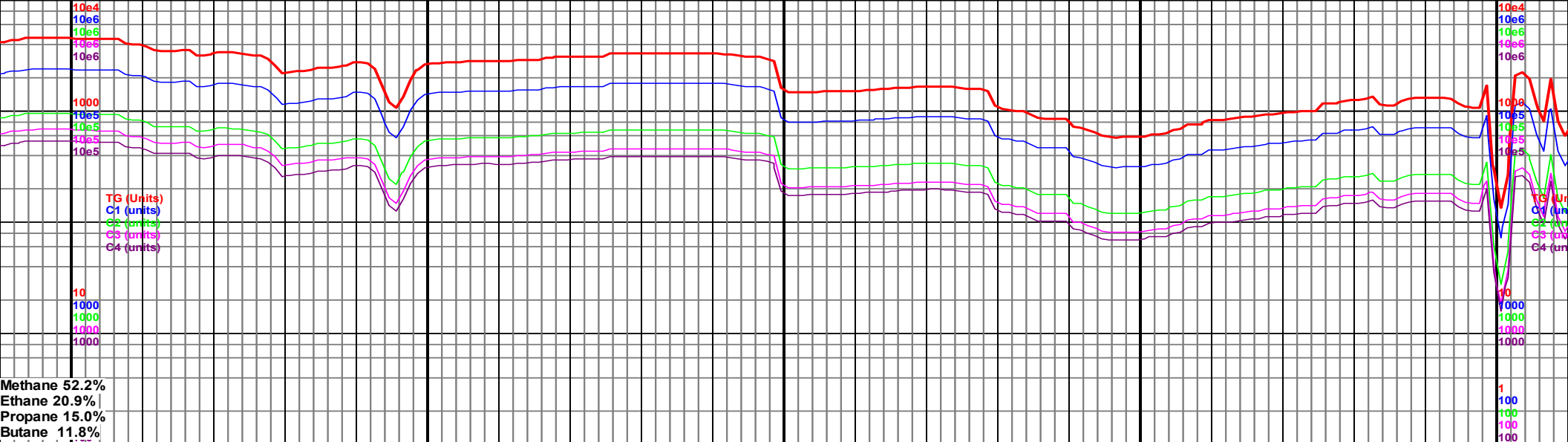


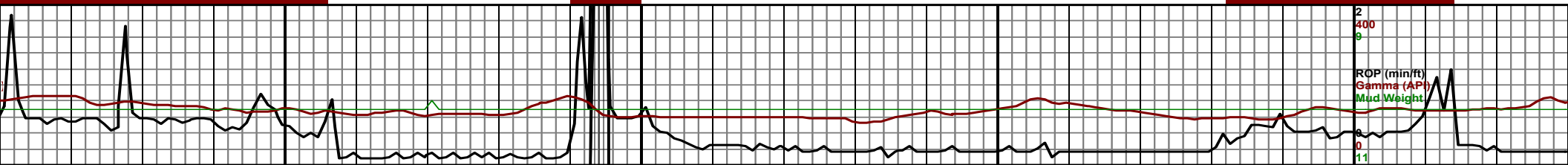
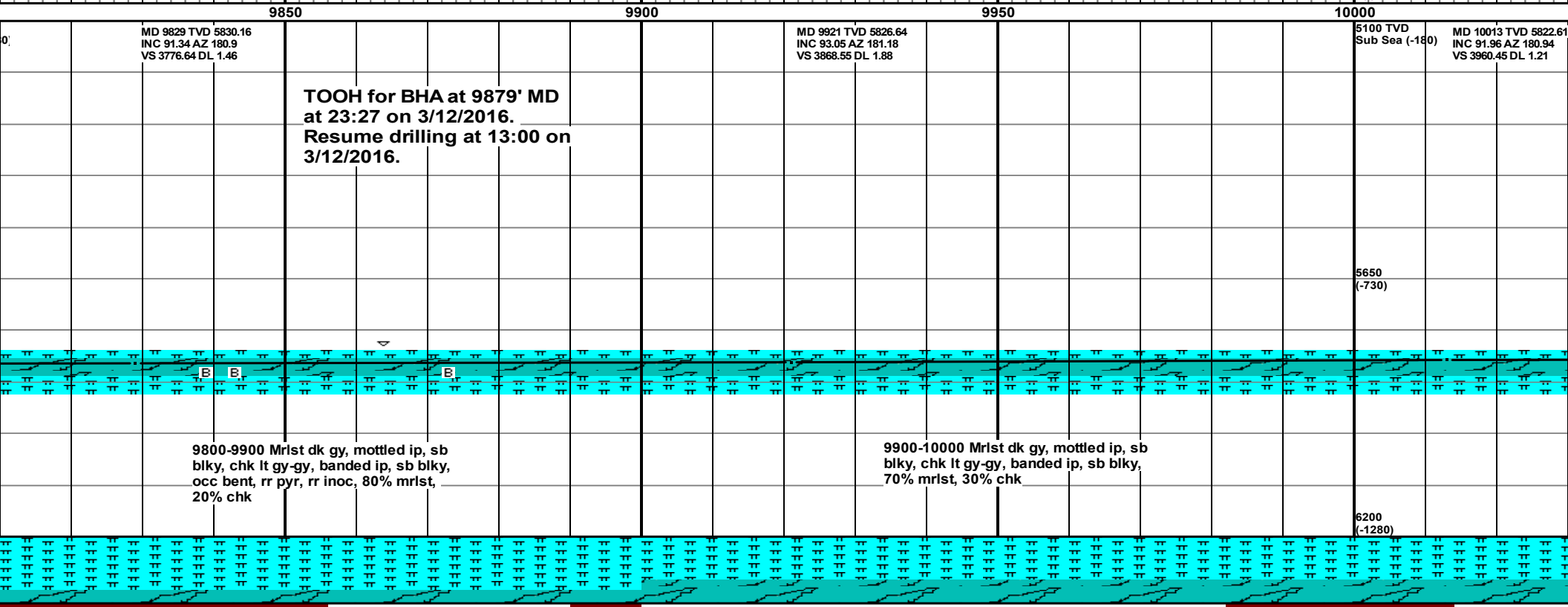
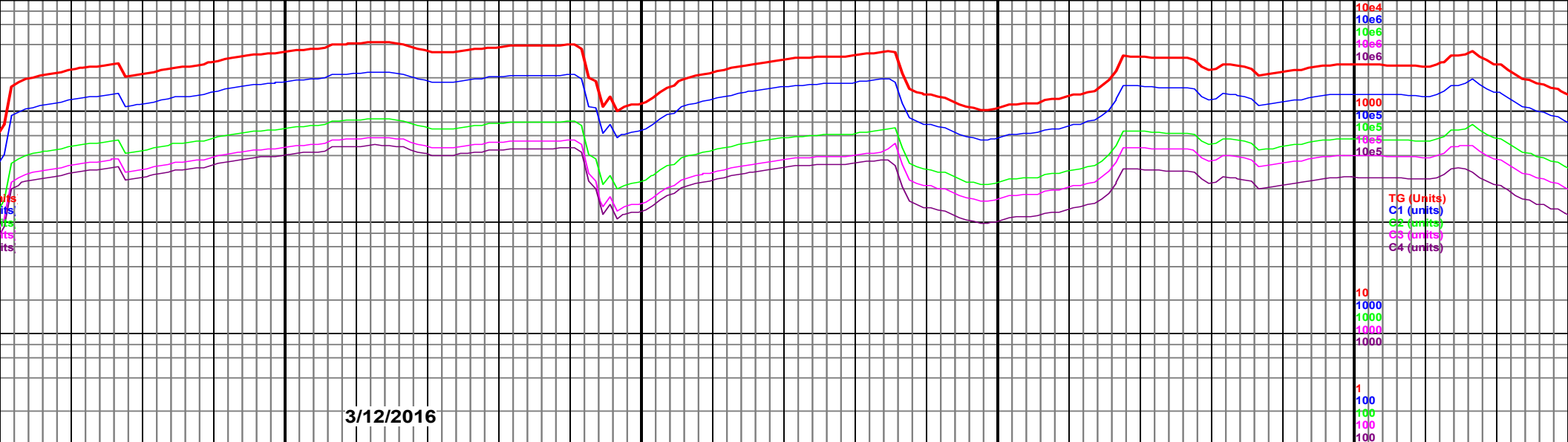


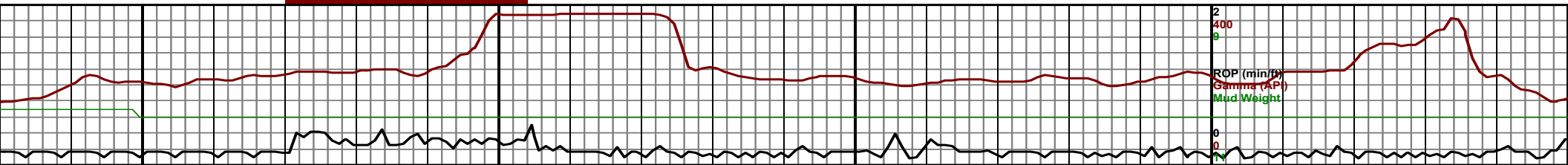
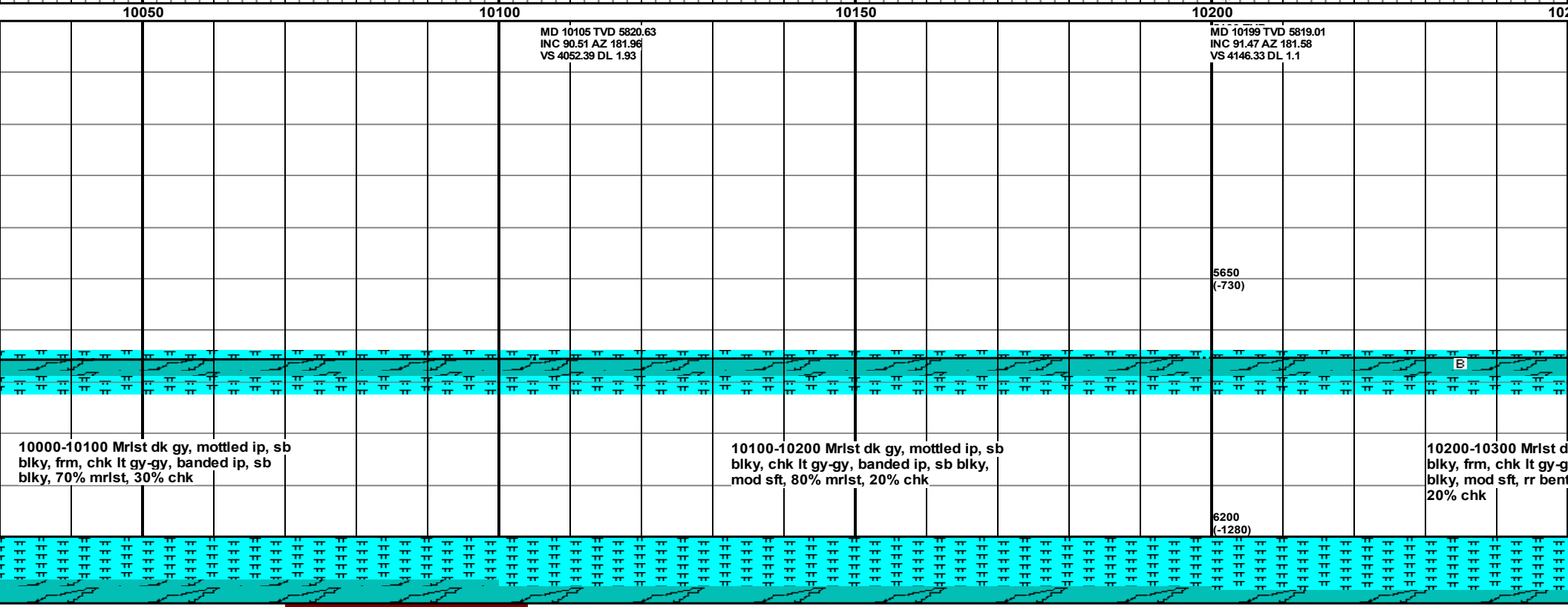
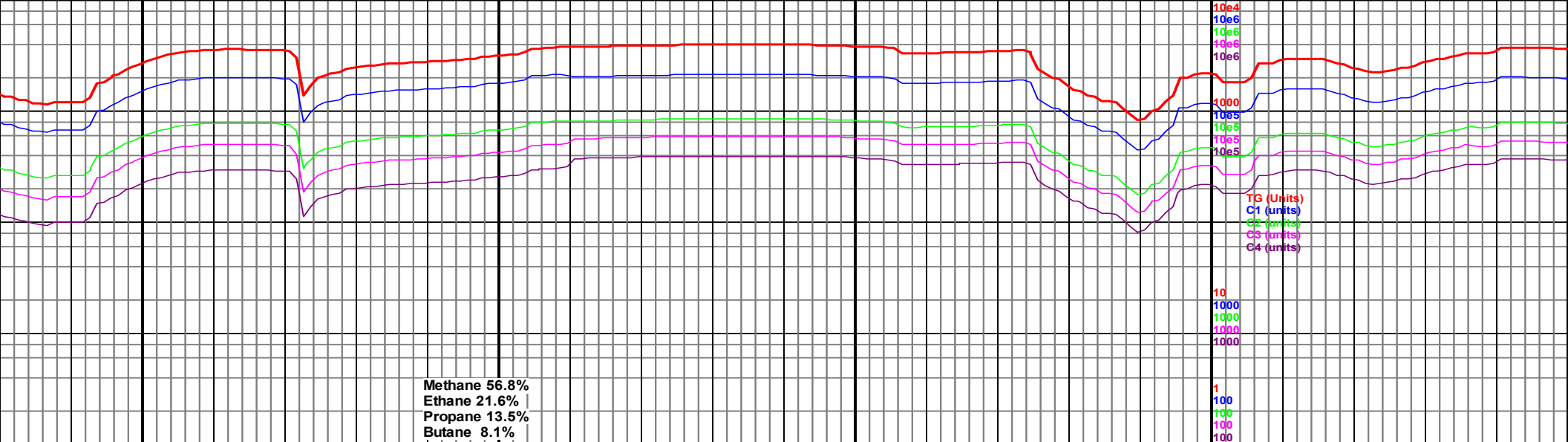


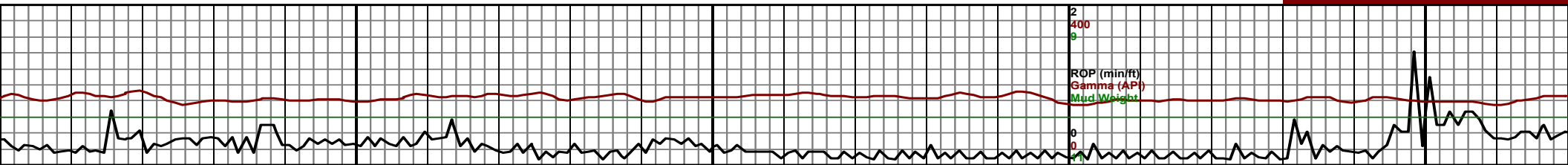
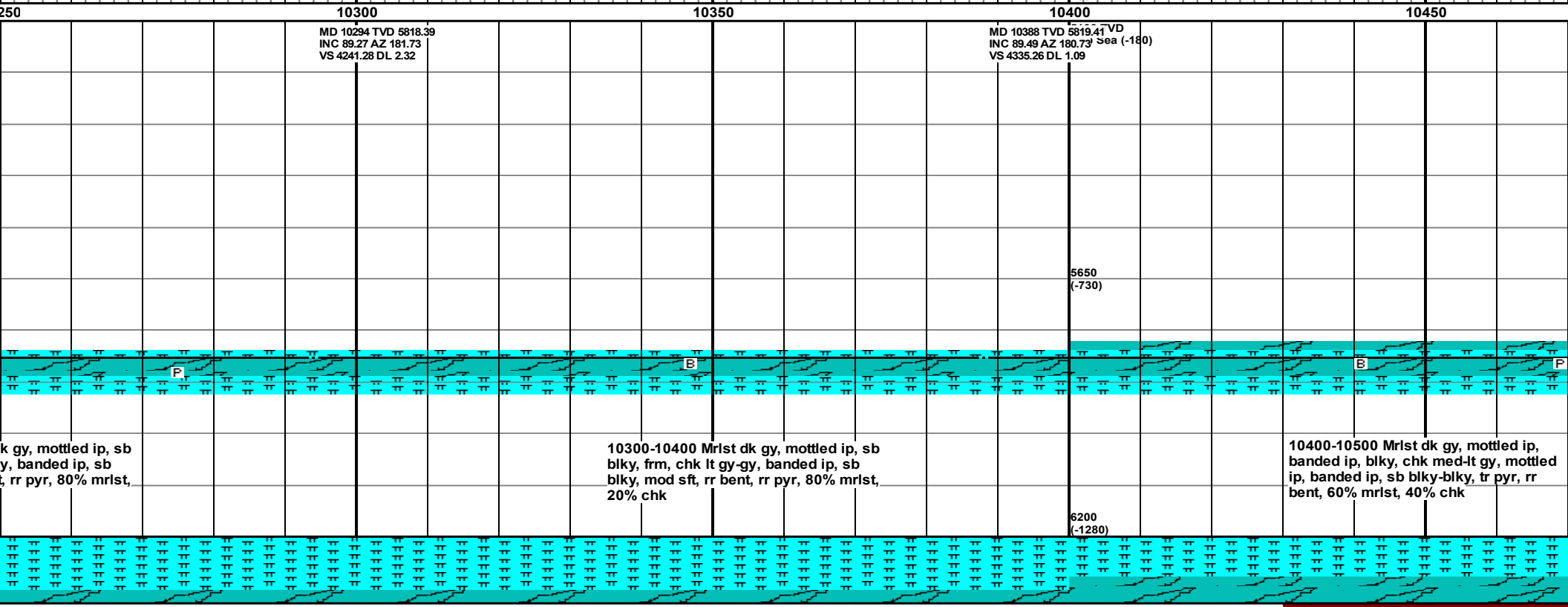
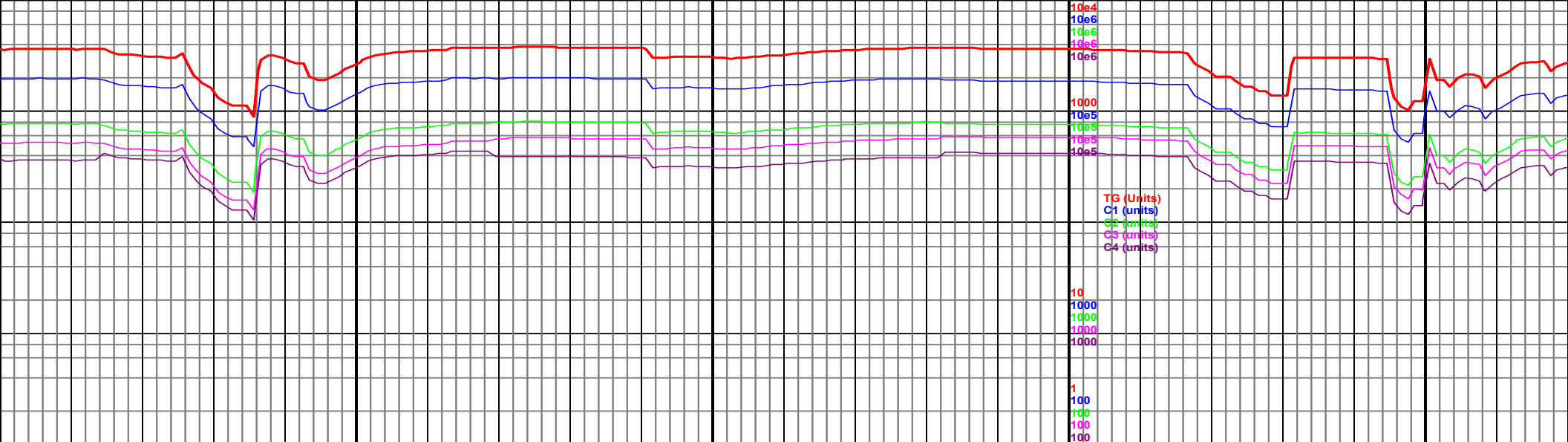


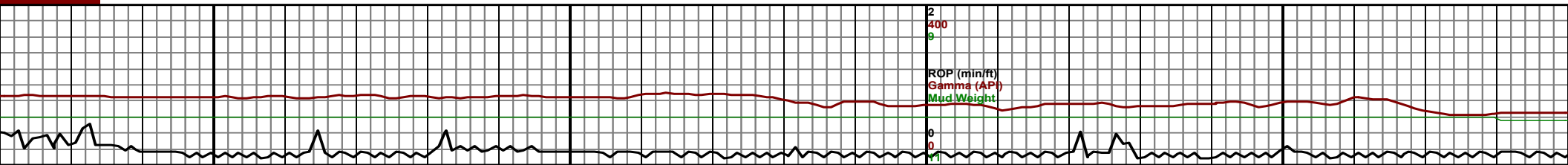
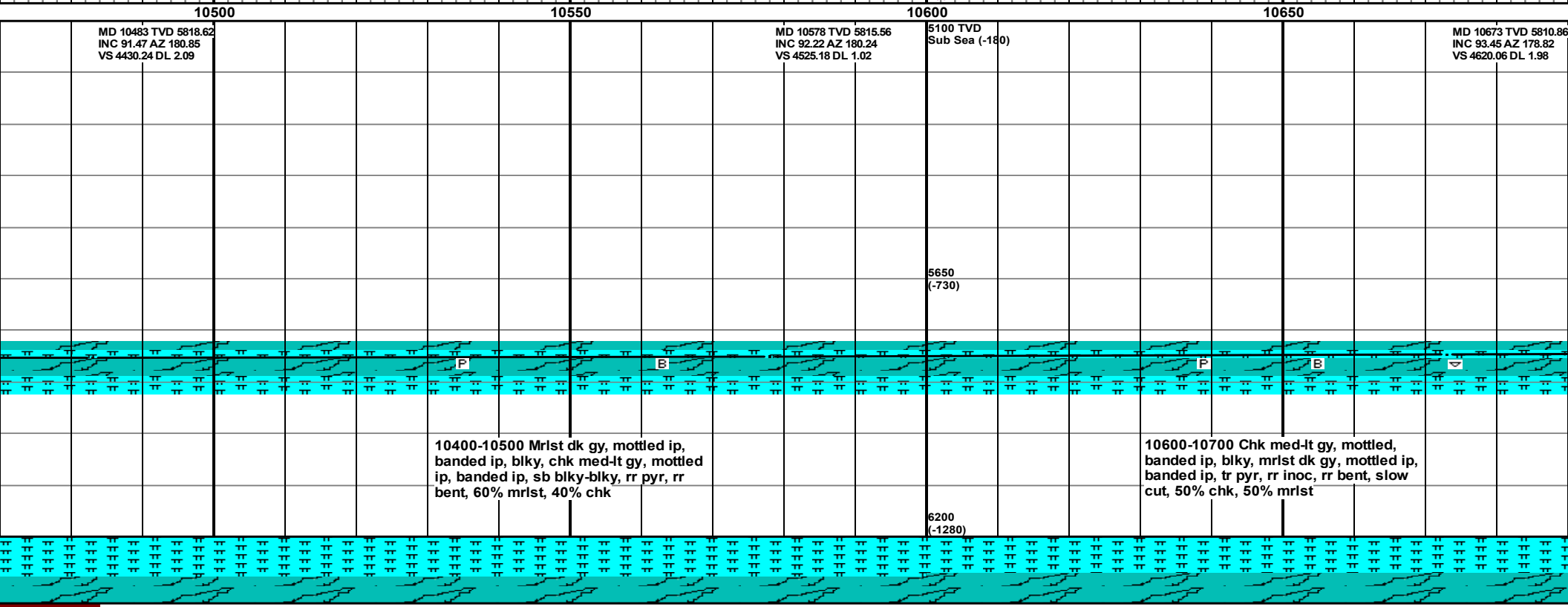
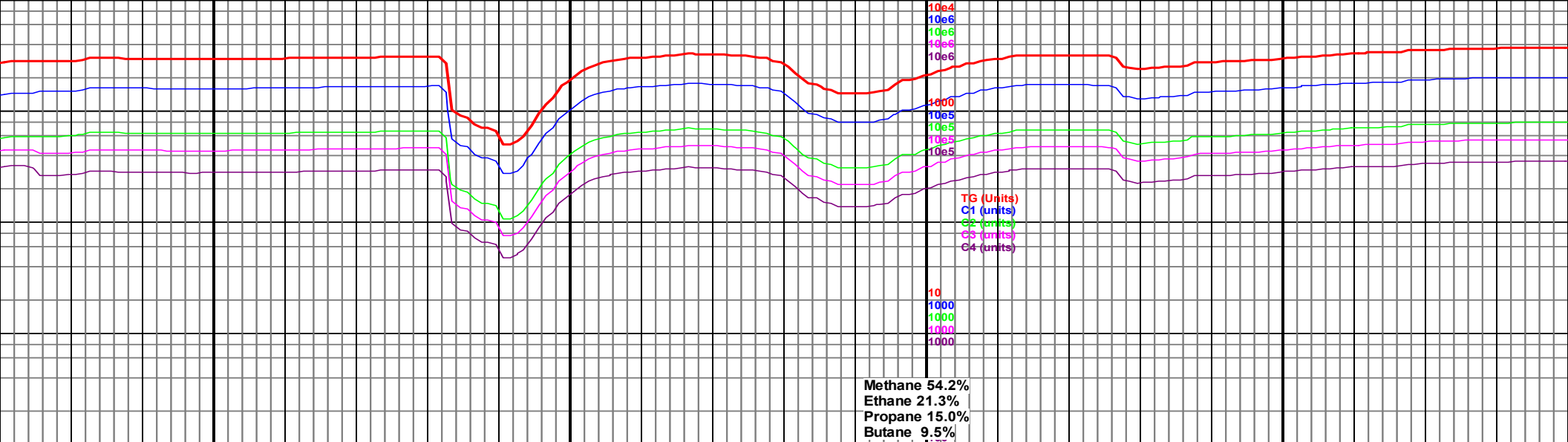


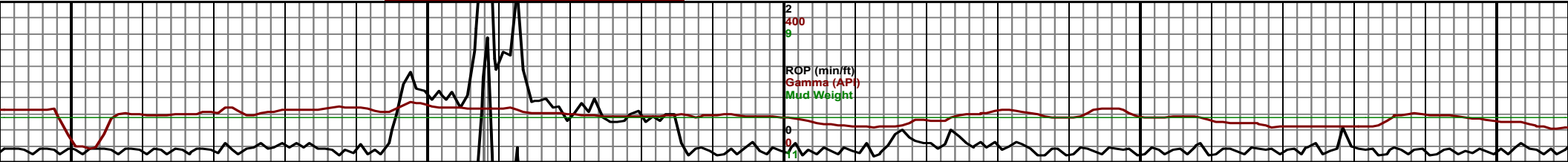
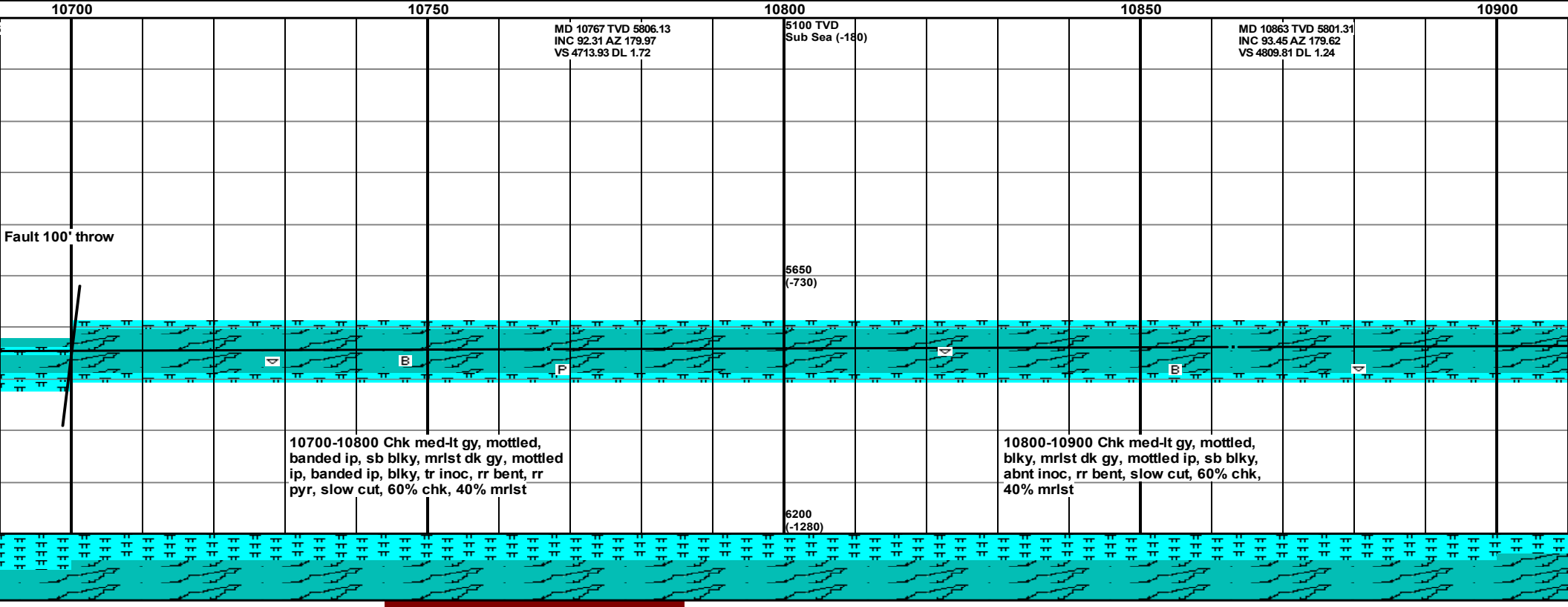
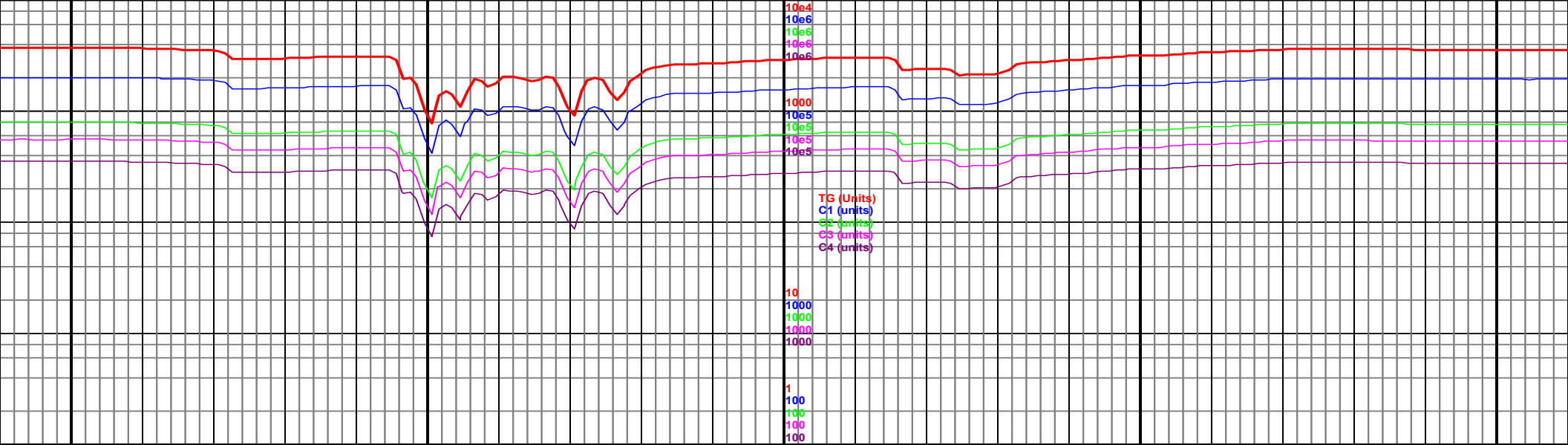


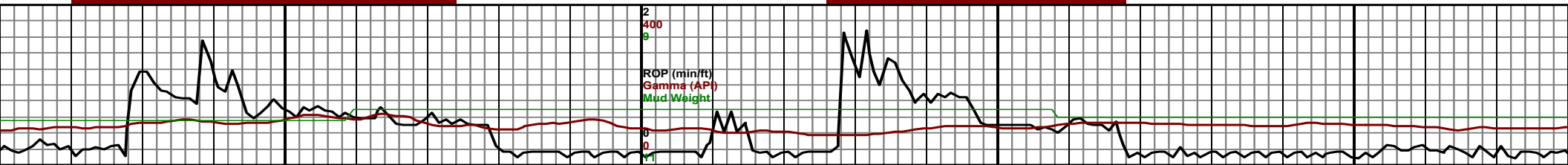
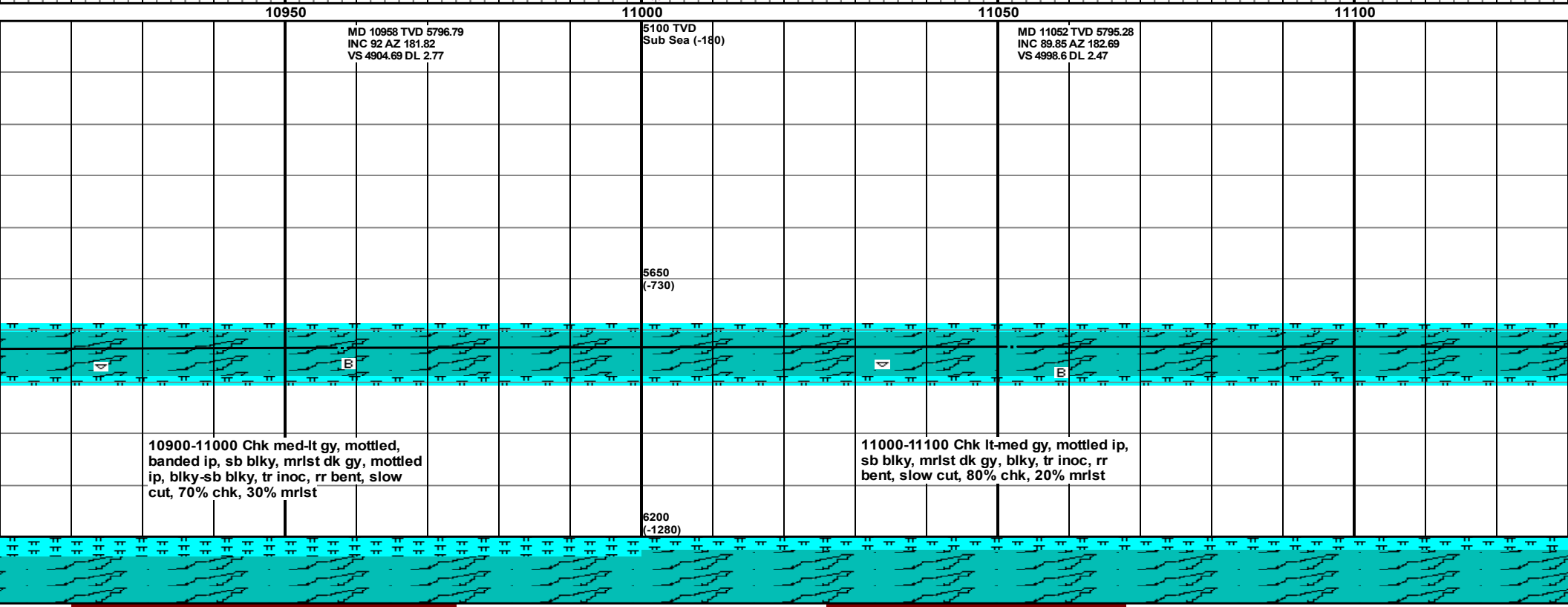
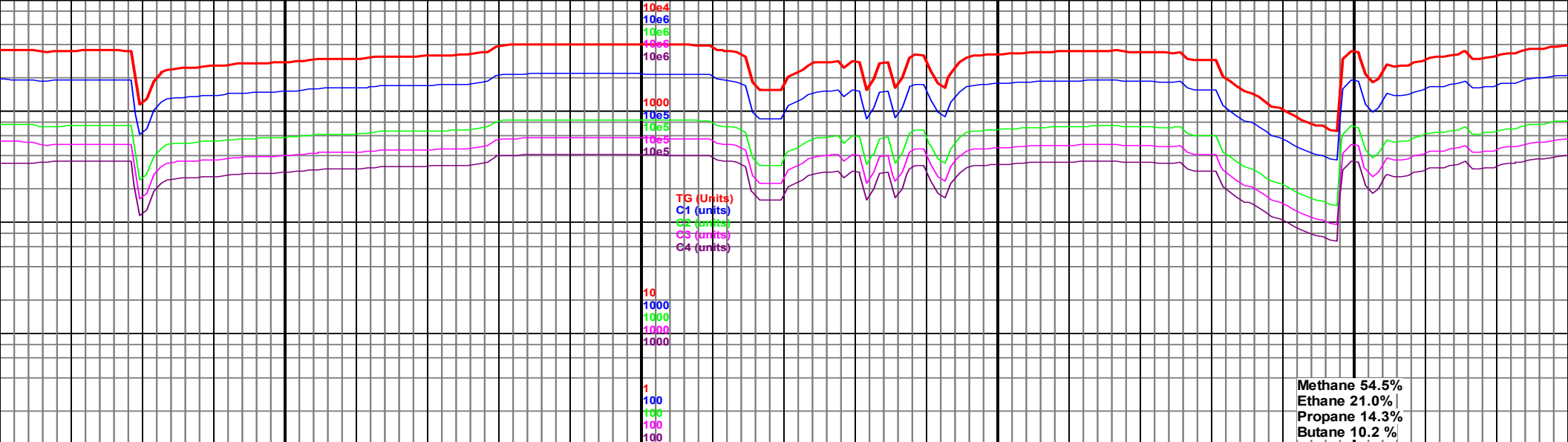


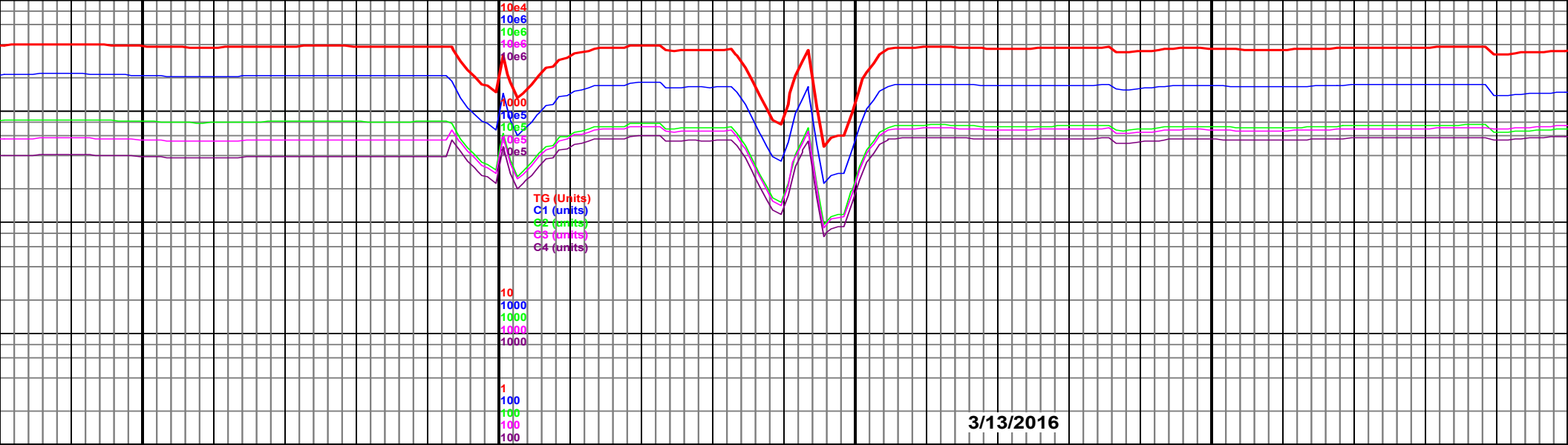












11150	11200	11250	11300	11350
MD 11146 TVD 5795.06 INC 90.42 AZ 181.95 VS 5092.52 DL 0.99	5100 TVD Sub Sea (-180)	MD 11240 TVD 5796.17 INC 88.22 AZ 181.82 VS 5186.45 DL 2.34		MD 11335 TVD 5796.17 INC 90.95 AZ 182.38 VS 5281.38 DL 2.93
	5650 (-730)			
11000-11100 Chk lt-med gy, mottled ip, sb blk, mrst dk gy, blk, tr inoc, rr bent, mod cut, 80% chk, 20% mrst		11200-11300 Chk lt-med gy, mottled ip, sb blk-sb ply, mrst dk gy, mottled ip, blk, tr inoc, mod cut, 90% chk, 10% mrst		11300-11400 Chk lt-med gy, mottled ip, sb blk-sb ply, mrst dk gy, mottled ip, blk, tr inoc, mod cut, 90% chk, 10% mrst
	6200 (-1280)			

