



7136 South Yale Avenue, Suite 414
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WWW.HZMUD.COM/25

Customer Information

Operator: Noble Energy
1625 Broadway
Suite 2200
Denver, Colorado 80202

Geologist: Holly Duncan
Noble Energy Inc.

Mud Logging Details

Logger: Hannah Blatchford &
Kevin Brooks

Log Interval: 6810' MD to 11376' MD

Start Date: July 4, 2014

Release Date: July 7, 2014

Well Information

Well Name: NCLP AA06-69HNC
Horizontal

Location: 4-T6N-R63W
660' FNL, 100' FWL

County: Weld
State: Colorado

Drilling Rig: H&P 321

Total Depth: 11376' MD

TD Date: July 7, 2014

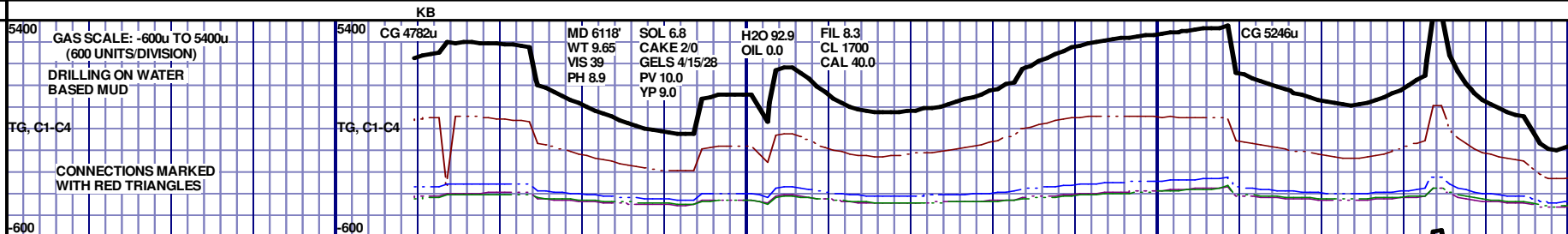
Formation: Niobrara C Chalk

KB Elevation: 4741'

GR Elevation: 4711'

API Number: 05-123-39034-0000

Category	Units	Value
1	100 (Units)	100
2	200 (units)	200
3	300 (units)	300
4	400 (units)	400
5	500 (units)	500

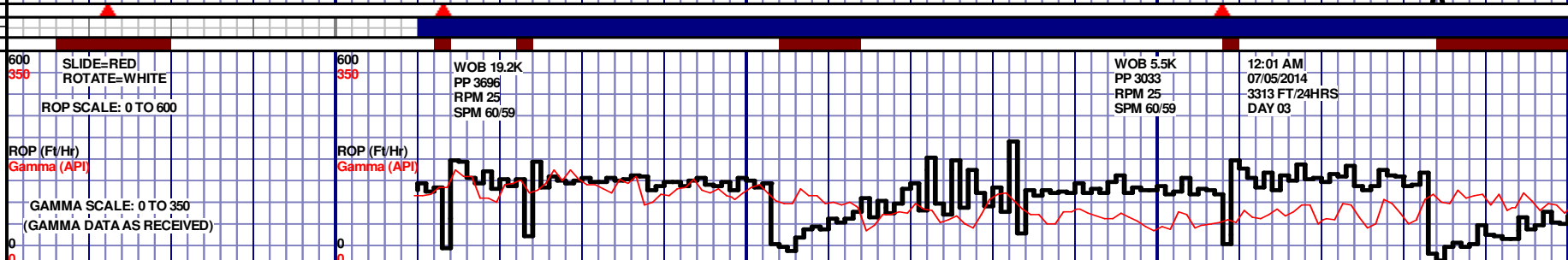


Connections

Cut	Slide/Rotate

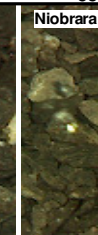
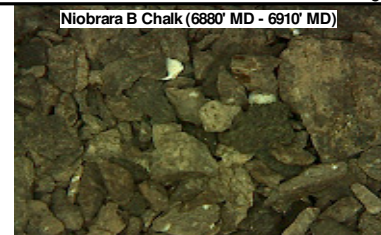
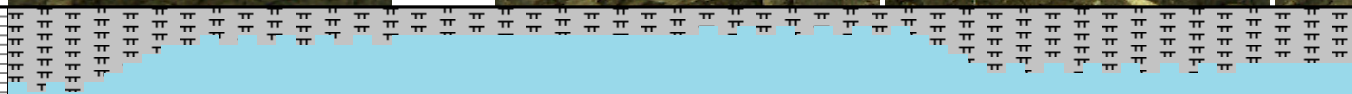
ROP (Ft/Hr)

Gamma (API) _____



Depth

Photographs

**Lithology %**

6600 TVD

**NOBLE ENERGY
NCLP AA06-69HNC
HORIZONTAL
4-T6N-R63W
660' FNL, 100' FWL
WELD COUNTY, CO**

6600 TVD

NIOBRARA
A MARL
6702' MD 6580' TVD

NIOBRARA B CHALK
6844' MD 6660' TVD

NIOBRARA B MARL
6910' MD 6693' TVD

Well Bore Cross Section

6850

H&P 321

LOGGERS:
HANNAH BLATCHFORD
KEVIN BROOKS

COMMENCED LOGGING @ 6810' MD ON
07/04/2014 W/BIT #2 8.75" SMITH SDI519 HPX S/N
JJ1354 IN @ 6118' MD

6850

6820'-6850': CHK: 65% MEDDRKGY -
MEDLTGY, BLKY TO SUBBLKY,
GRTY TO SLTY TXT, FRM TO BRIT,
TRC FREE BENT, IMBD CALC, IMBD
PYR, 35% FREE MRL, NO STN, TRC
FLOR, NO O FLOR, IMMED STRMG
CUT. BRIYL RNG

6850'-6880': CHK: 70% MEDDRKGY -
MEDLTGY, BLKY TO SUBBLKY,
GRY TO SLTY TXT, FRM TO BRIT,
TRC FREE BENT, IMBD CALC, IMBD
PYR, 30% FREE MRL, NO STN, TRC
FLOR, NO O FLOR, IMMED STRMG
CUT. BRYL RNG

6880'-6910': CHK: 75% MEDDRKGY -
MEDLTGY, BLKY TO SUBBLKY,
GRY TO SLTY TXT, FRM TO BRIT,
TRC FREE BENT, IMBD CALC, IMBD
PYR, 25% FREE MRL, NO STN, TRC
FLOR, NO O FLOR, IMMED STRMG
CUT, BRYL RNG

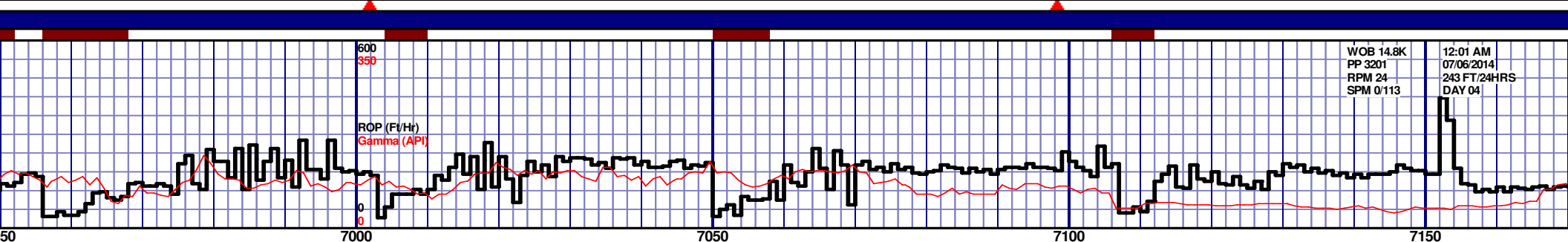
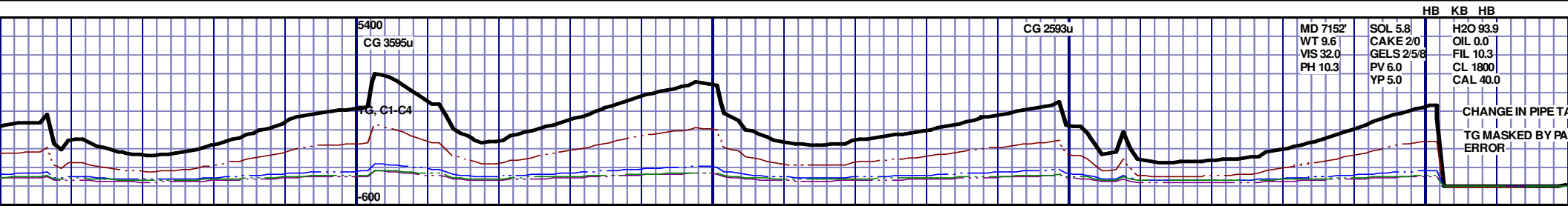
6910'-6940': MRST: 65% MEDDRKG,
MEDLTGY, BLKY TO SUBBLKY,
GRTY TO SLTY TXT, FRM TO BRIT,
TRC FREE BENT, FREE CALC, IMBD
CALC, IMBD PYR, 35% FREE CHK,
NO STN, 5% FLOR, NO O FLOR,
IMMED STRMG CUT, BRIYL RNG

6940'-6970': MEDLTGY, BGRTY TO SLTRC FREE B, CAL, IMBD, NO STN, 5% IMMED STR

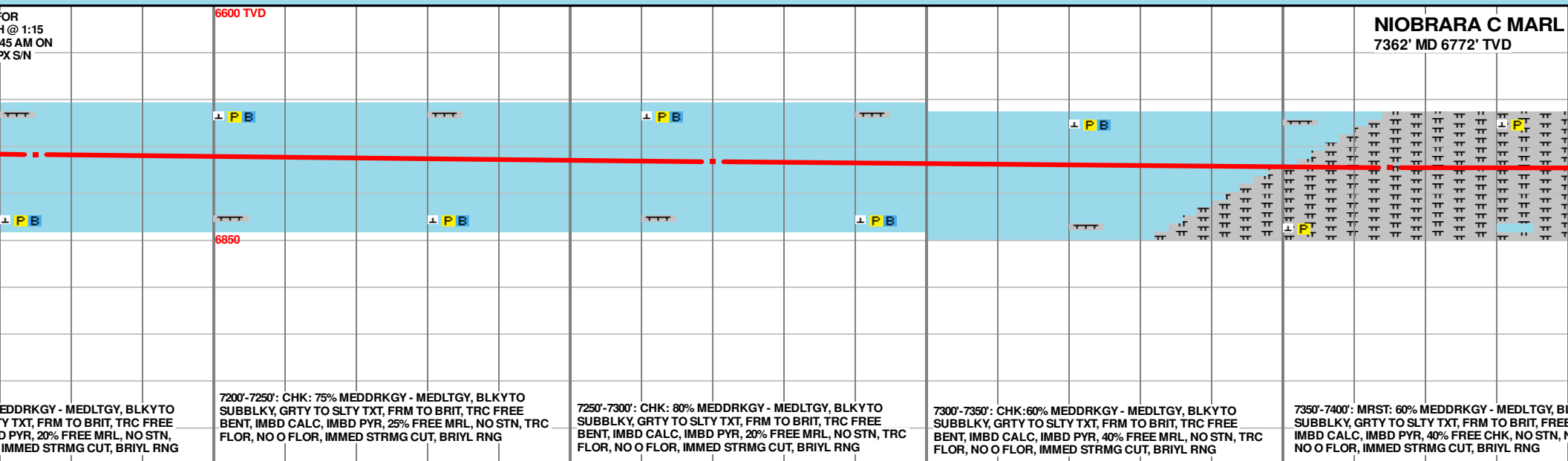
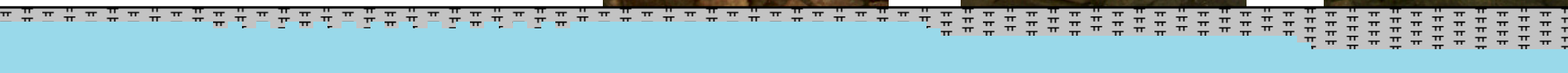
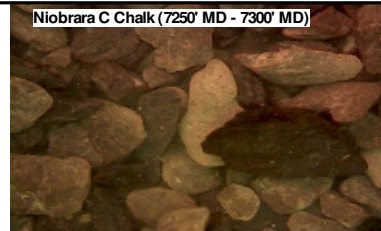
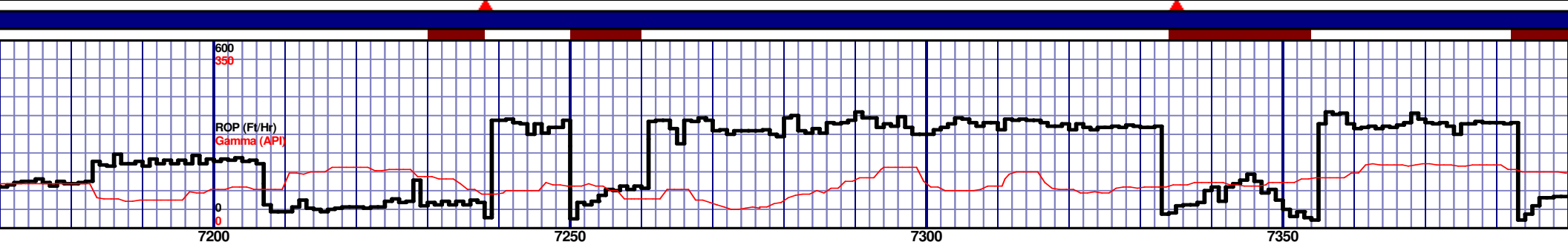
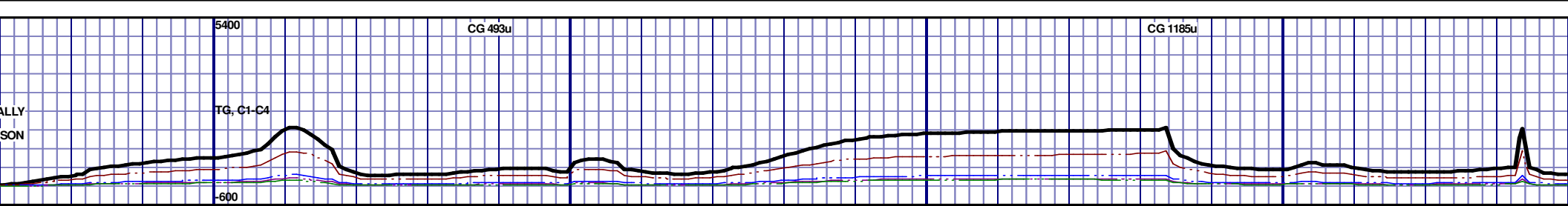
Survey Data

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INC 58.45 AZ 270.76
VS 424.32

MD 6902 TVD 6690.27
INC 61.51 AZ 269.63
VS 465.68



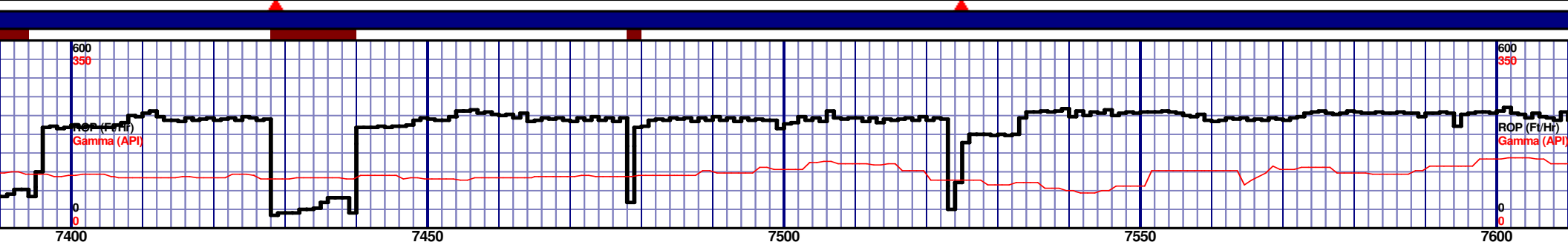
<div>TOOH @ 4:20 AM ON 07/05/14 @ 7152' MD F INTERMEDIATE CASING OPERATIONS. TH AM ON 07/06/14. RESUMED DRILLING @ 4: 07/06/14 W/ BIT #3 6.125" SMITH SDI513 UBR JJ4896 IN @ 7152' MD</div>									
<div>SWITCH TO 50' SAMPLE INTERVAL</div>									
<div>7150'-7200': CHK: 80% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT, IMBD CALC, IMBD PYR, 25% FREE MRL, NO STN, TRC FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG</div>									
<div>7120'-7150': CHK: 75% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT, IMBD CALC, IMBD PYR, 30% FREE MRL, NO STN, TRC FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG</div>									
<div>7090'-7120': CHK: 70% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT, IMBD CALC, IMBD PYR, 30% FREE MRL, NO STN, TRC FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG</div>									
<div>7060'-7090': CHK: 70% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT, IMBD CALC, IMBD PYR, 30% FREE MRL, NO STN, TRC FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG</div>									
<div>7030'-7060': CHK: 60% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT, IMBD CALC, IMBD PYR, 40% FREE MRL, NO STN, TRC FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG</div>									
<div>7000'-7030': CHK: 55% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT, IMBD CALC, IMBD PYR, 45% FREE MRL, NO STN, TRC FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG</div>									
<div>6970'-7000': CHK: 55% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT, IMBD CALC, IMBD PYR, 40% FREE MRL, NO STN, TRC FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG</div>									
<div>MRST: 60% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT, IMBD CALC, IMBD PYR, 40% FREE MRL, NO STN, TRC FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG</div>									

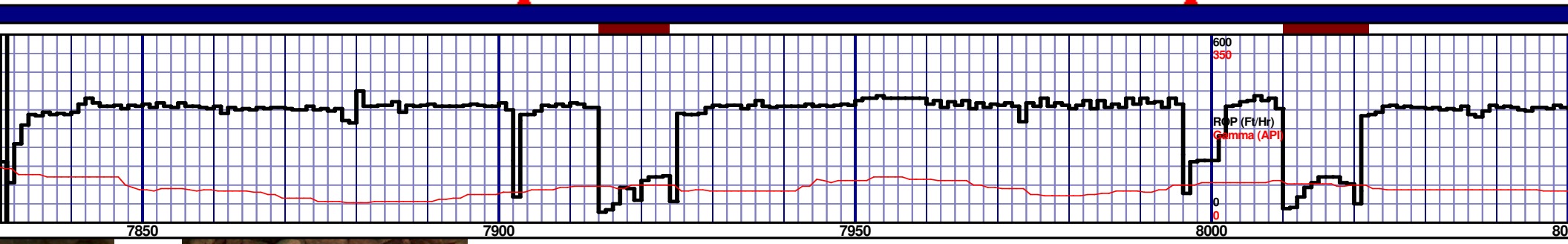
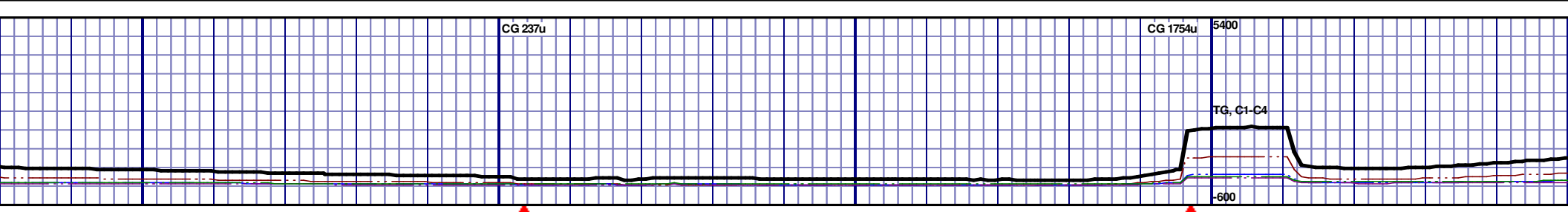


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INC 84.6 AZ 270
VS 725.33

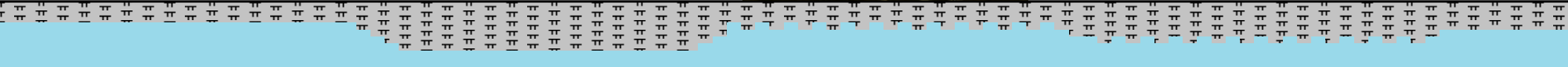
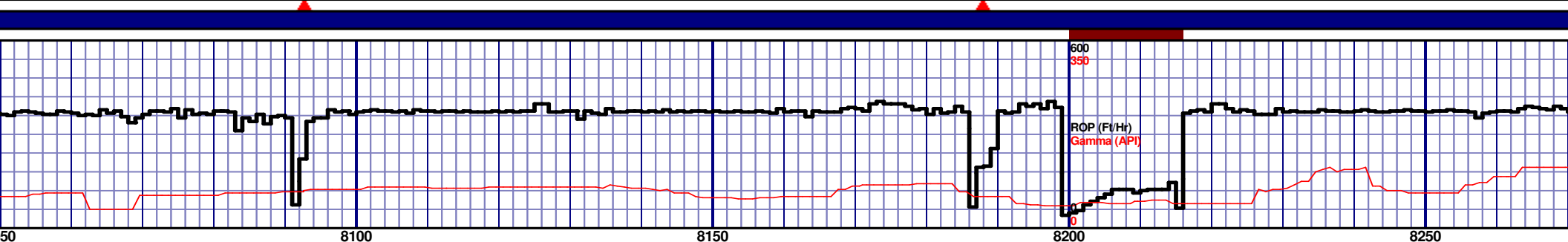
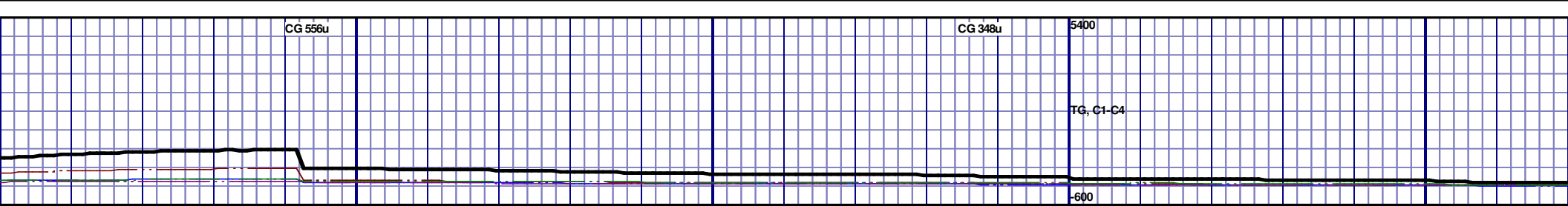
MD 7270 TVD 6766.51
INC 85.56 AZ 269.33
VS 619.45

MD 7365 TVD 6772.38
INC 87.35 AZ 270.08
VS 913.74

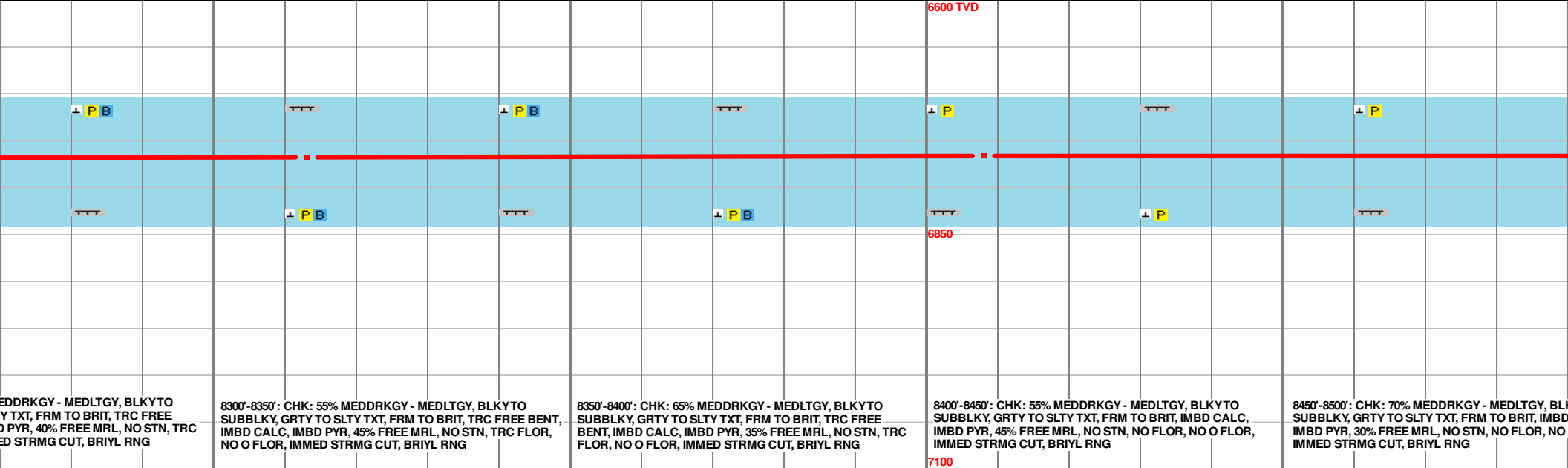
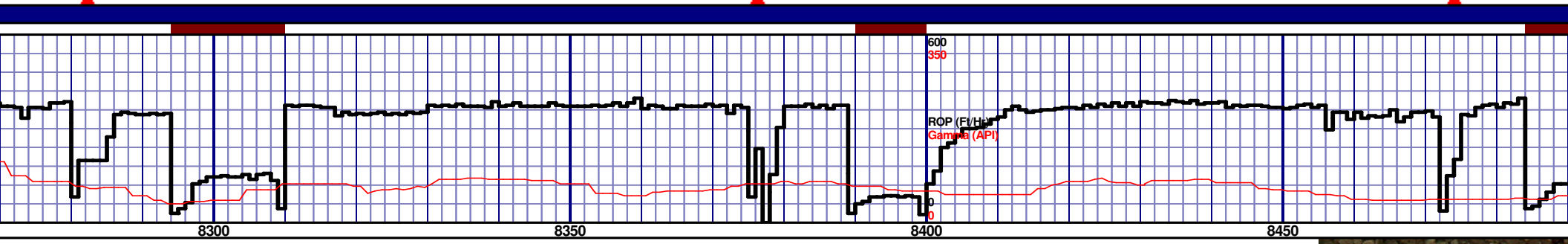
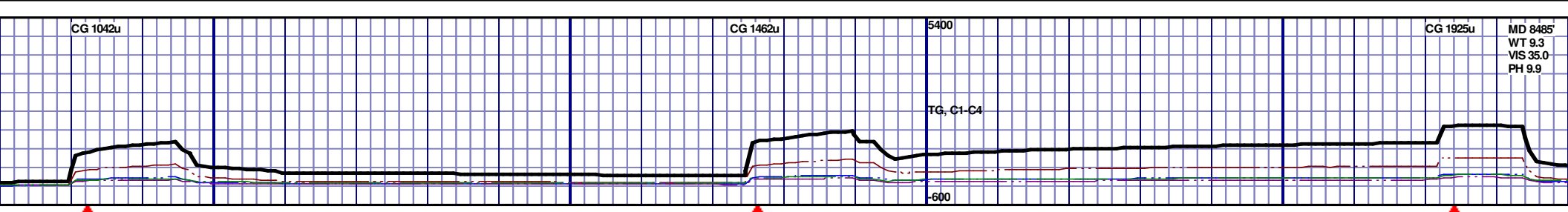
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NIOBRARA C CHALK 7847' MD 6765' TVD					6600 TVD				



																				6600 TVD																			



MEDDRKGY - MEDLTGY, BLKYTO
Y TXT, FRM TO BRIT, TRC FREE
D PYR, 40% FREE MRL, NO STN, TRC
ED STRMG CUT, BRIYL RNG

8300'-8350': CHK: 55% MEDDRKGY - MEDLTGY, BLKYTO
SUBBLKY, GR TY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT,
IMBD CALC, IMBD PYR, 45% FREE MRL, NO STN, TRC FLOR,
NO O FLOR, IMMED STRMG CUT, BRIYL RNG

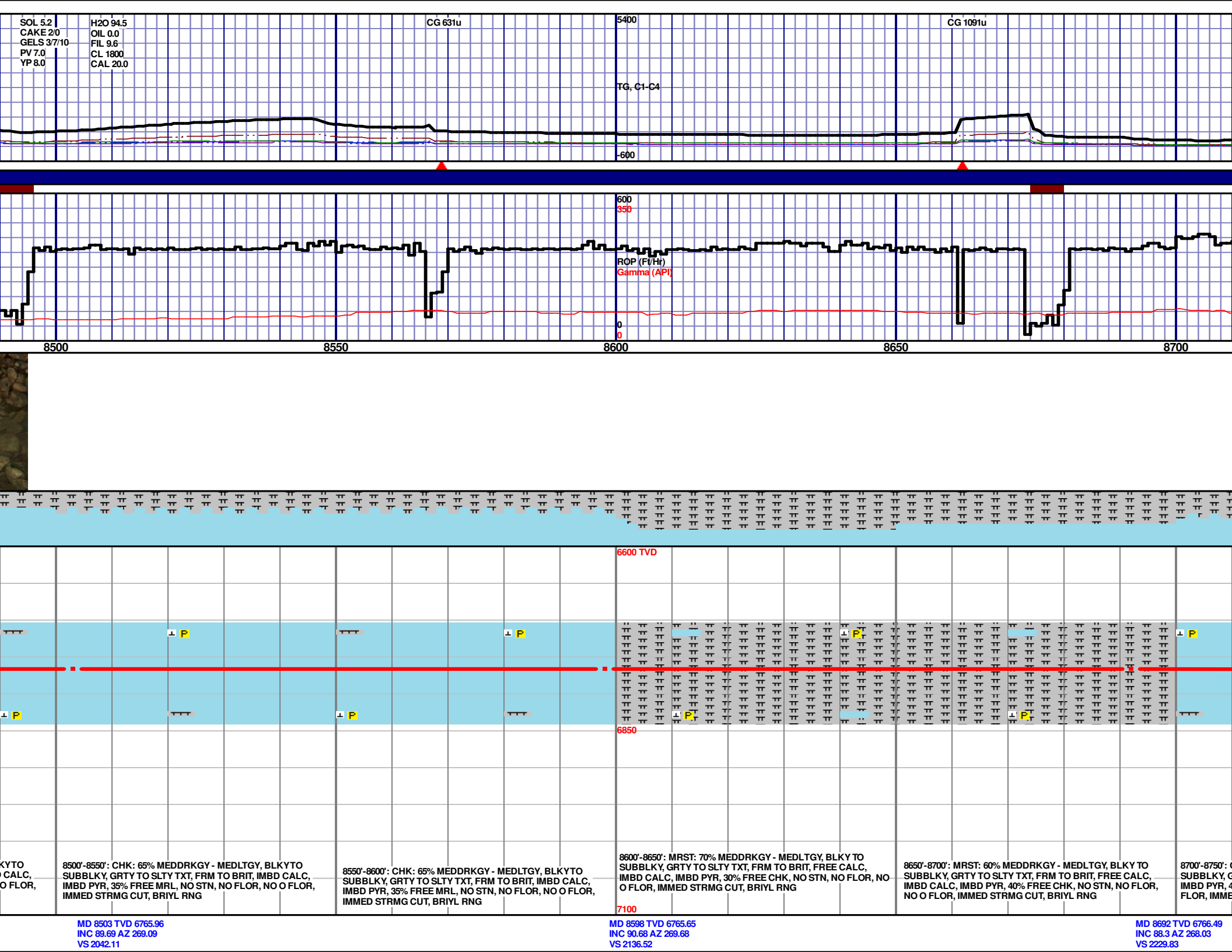
8350'-8400': CHK: 65% MEDDRKGY - MEDLTGY, BLKYTO
SUBBLKY, GR TY TO SLTY TXT, FRM TO BRIT, TRC FREE
BENT, IMBD CALC, IMBD PYR, 35% FREE MRL, NO STN, TRC
FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG

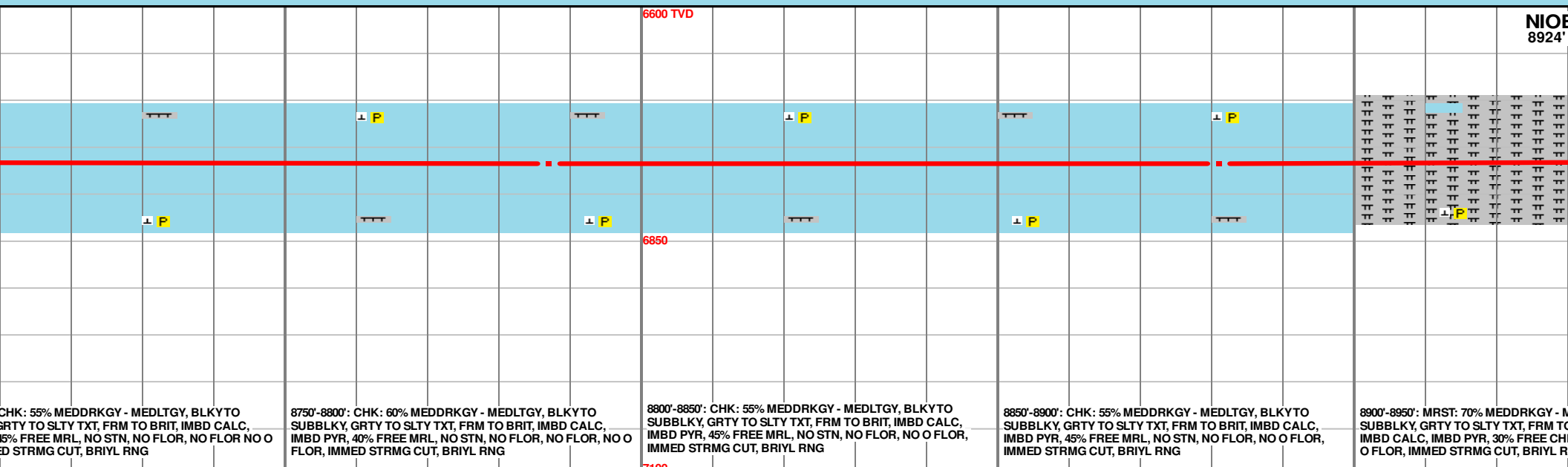
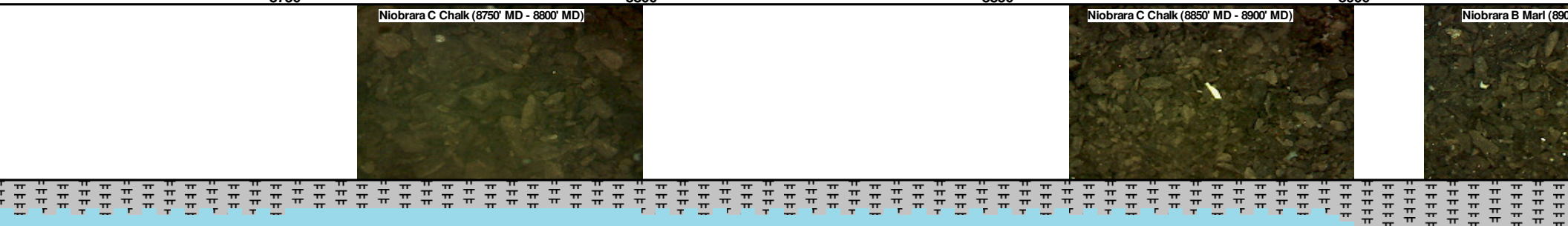
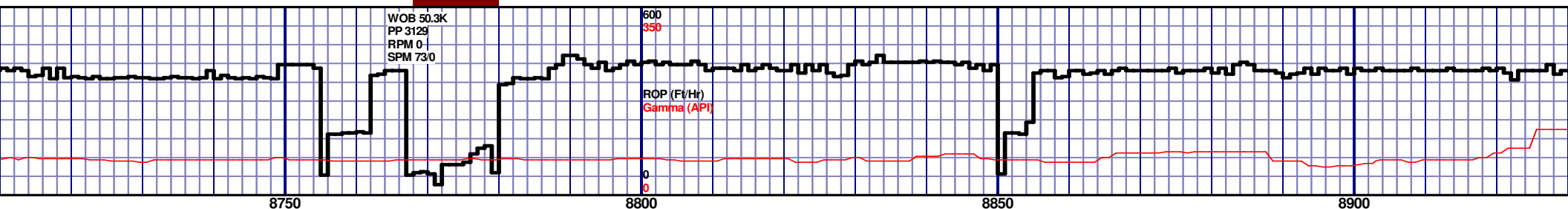
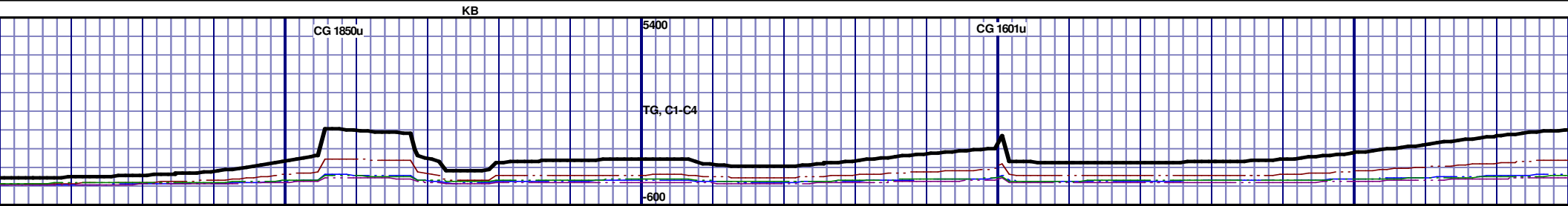
8400'-8450': CHK: 55% MEDDRKGY - MEDLTGY, BLKYTO
SUBBLKY, GR TY TO SLTY TXT, FRM TO BRIT, IMBD CALC,
IMBD PYR, 45% FREE MRL, NO STN, NO FLOR, NO O FLOR,
IMMED STRMG CUT, BRIYL RNG

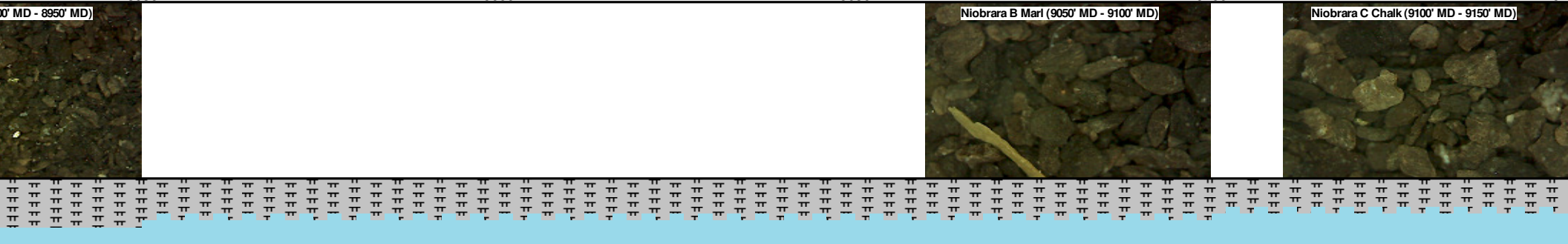
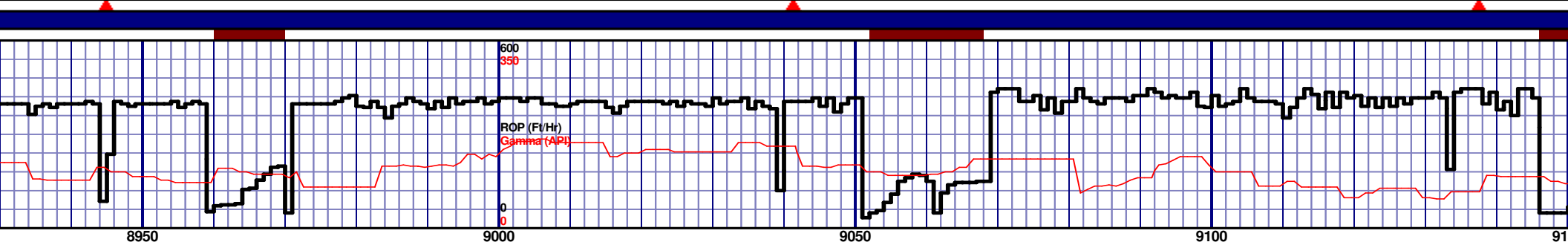
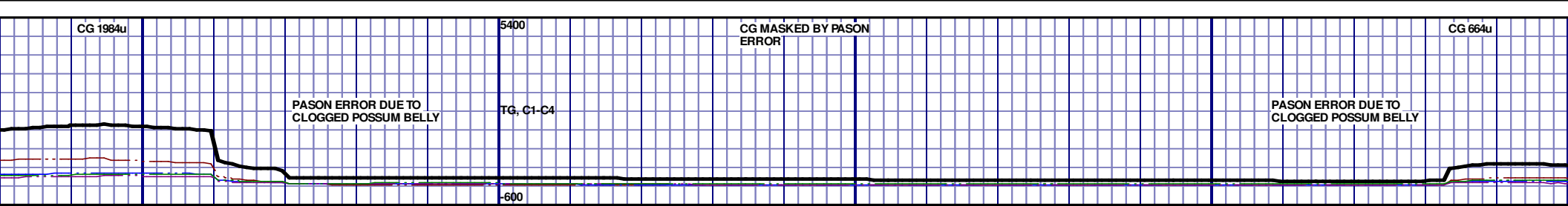
8450'-8500': CHK: 70% MEDDRKGY - MEDLTGY, BL
SUBBLKY, GR TY TO SLTY TXT, FRM TO BRIT, IMBD
IMBD PYR, 30% FREE MRL, NO STN, NO FLOR, NO
IMMED STRMG CUT, BRIYL RNG

MD 8313 TVD 6767.85
INC 90.93 AZ 268.08
VS 1853.51

MD 8408 TVD 6766.39
INC 90.83 AZ 269.05
VS 1947.75



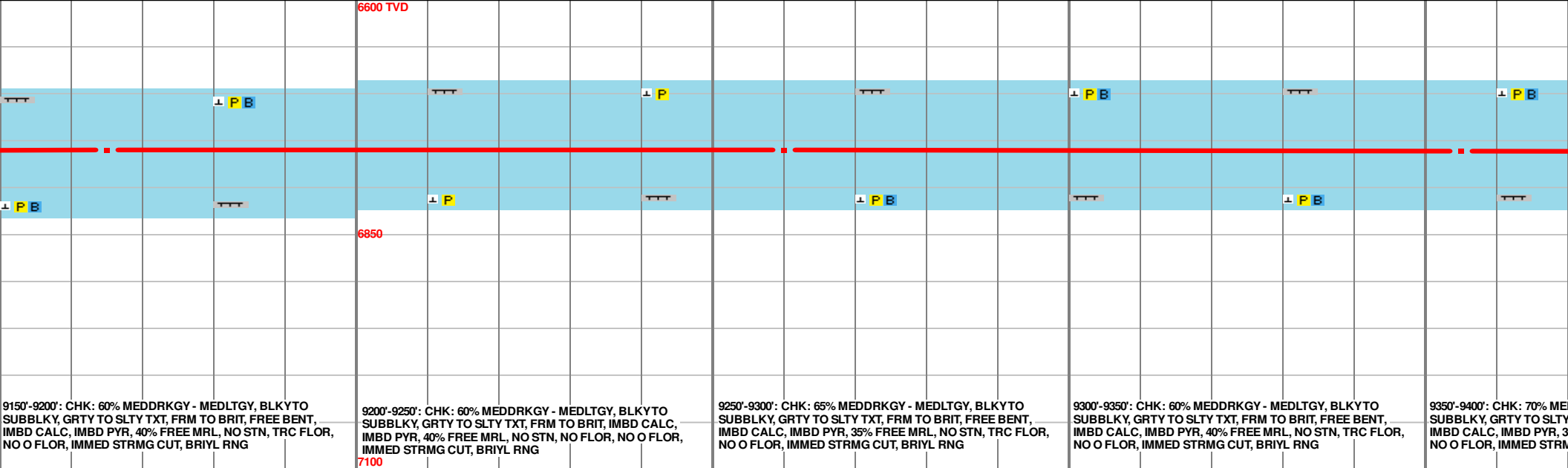
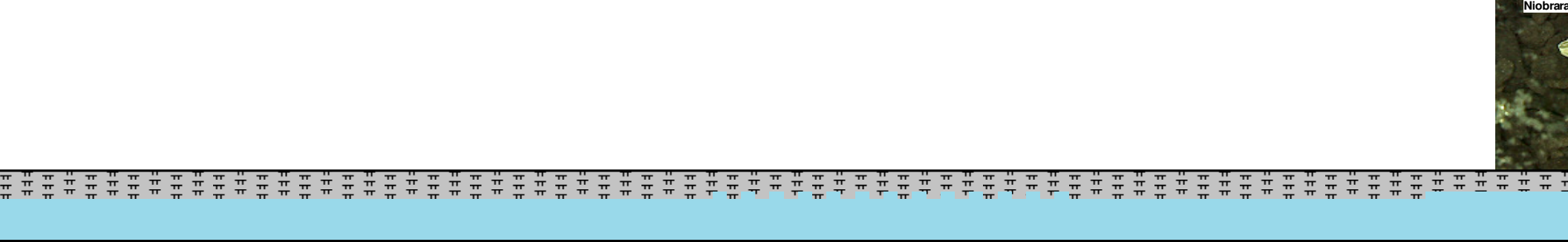
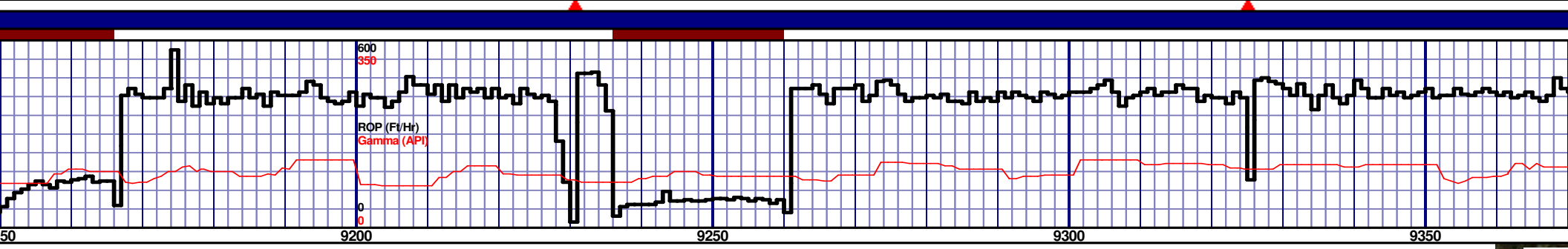
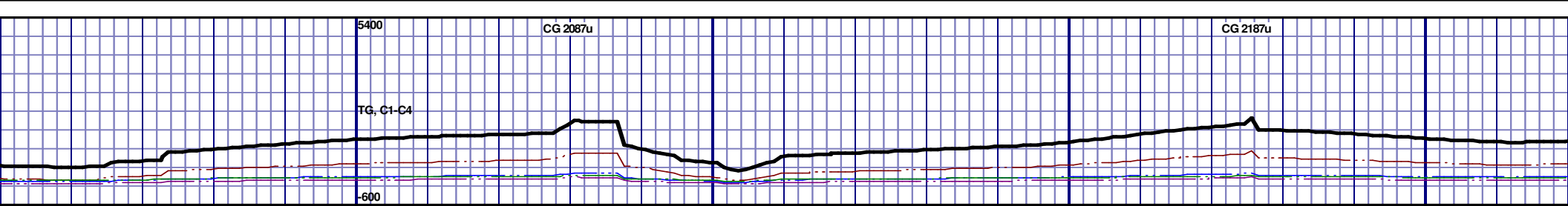


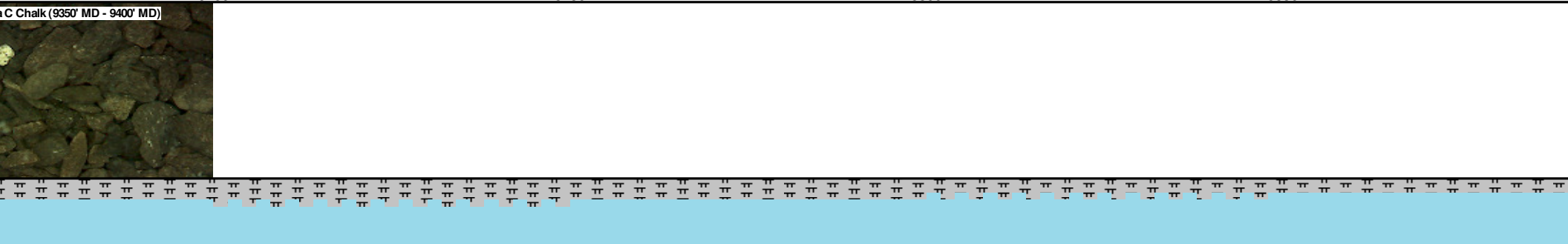
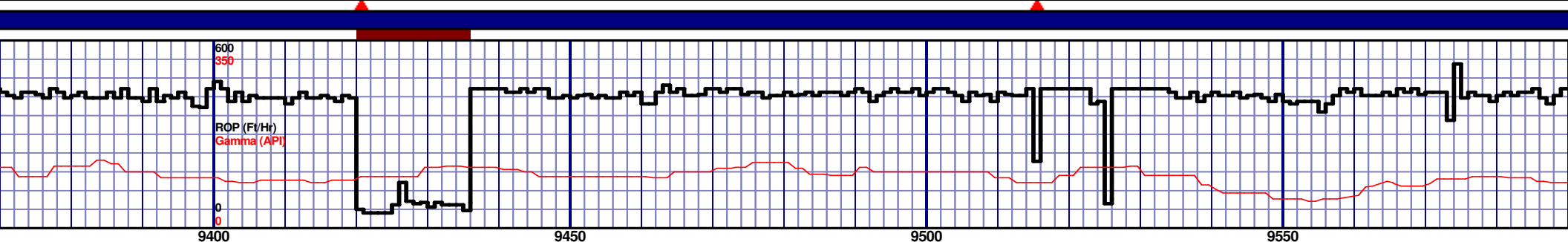
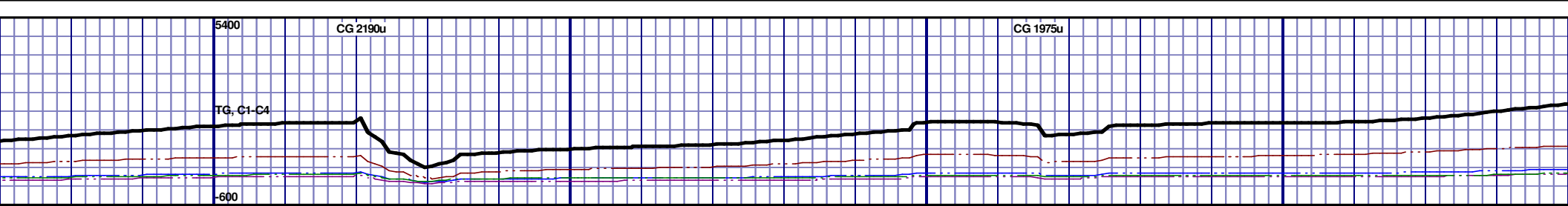


BRARA B MARL MD 6766' TVD										6600 TVD										NIOBRARA C CHALK 9100' MD 6762' TVD																			
MEDTGY, BLKY TO D BRIT, FREE CALC, K, NO STN, NO FLOR, NO NG										9000'-9050': MRST: 55% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT FREE CALC, IMBD CALC, IMBD PYR, 45% FREE CHK, NO STN, TRC FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG										9050'-9100': MRST: 55% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT, FREE CALC, IMBD CALC, IMBD PYR, 45% FREE CHK, NO STN, TRC FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG										9100'-9150': CHK: 55% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE BENT, IMBD CALC, IMBD PYR, 45% FREE MRL, NO STN, TRC FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG									
										7100																													

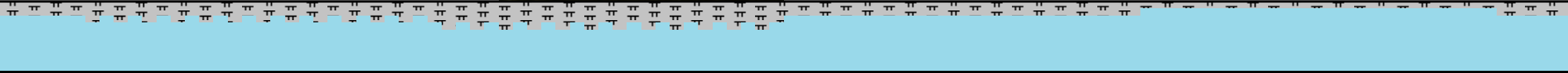
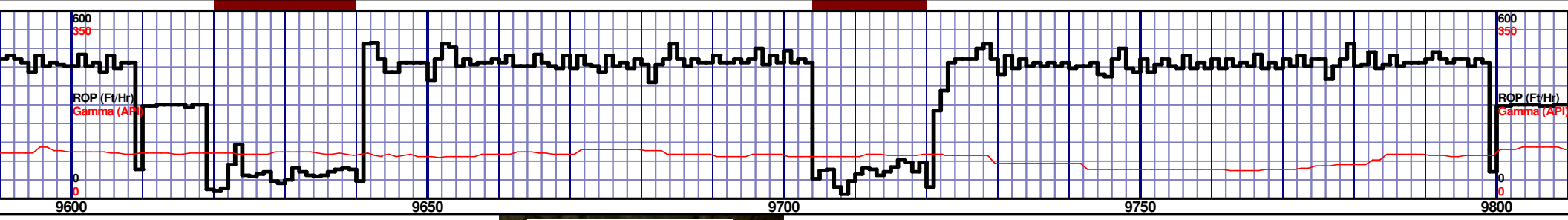
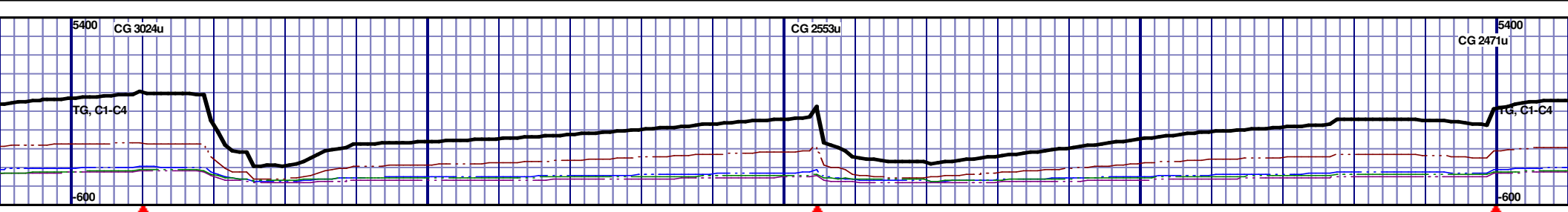
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INC 91.73 AZ 269.02
VS 2511.43

MD 9071 TVD 6762.15
INC 92 AZ 269.14
VS 2605.74





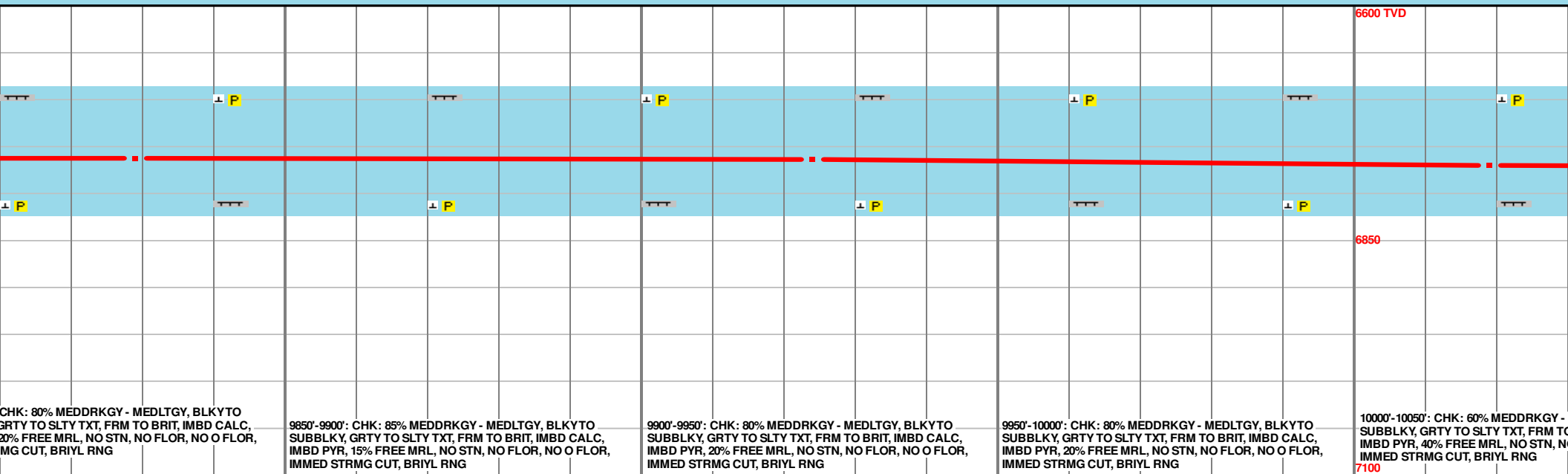
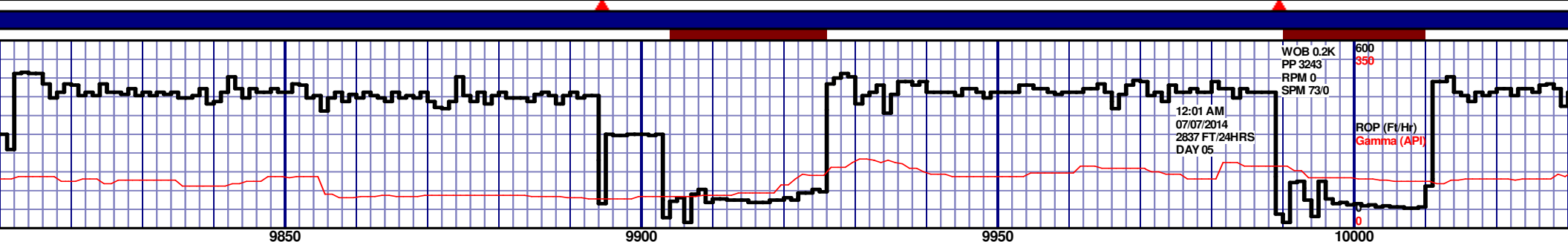
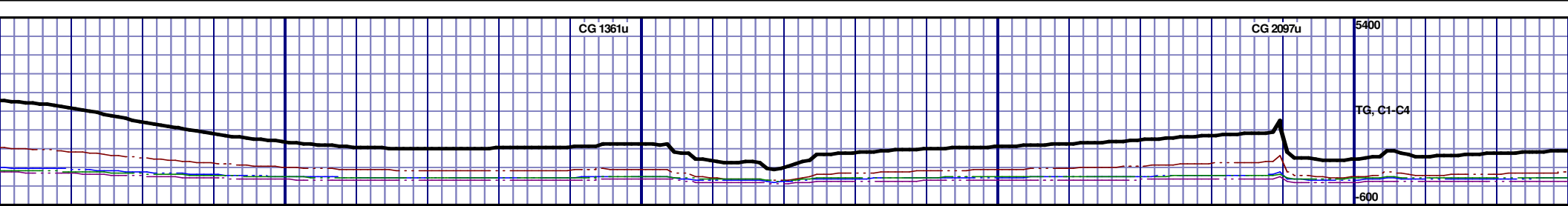
6600 TVD									
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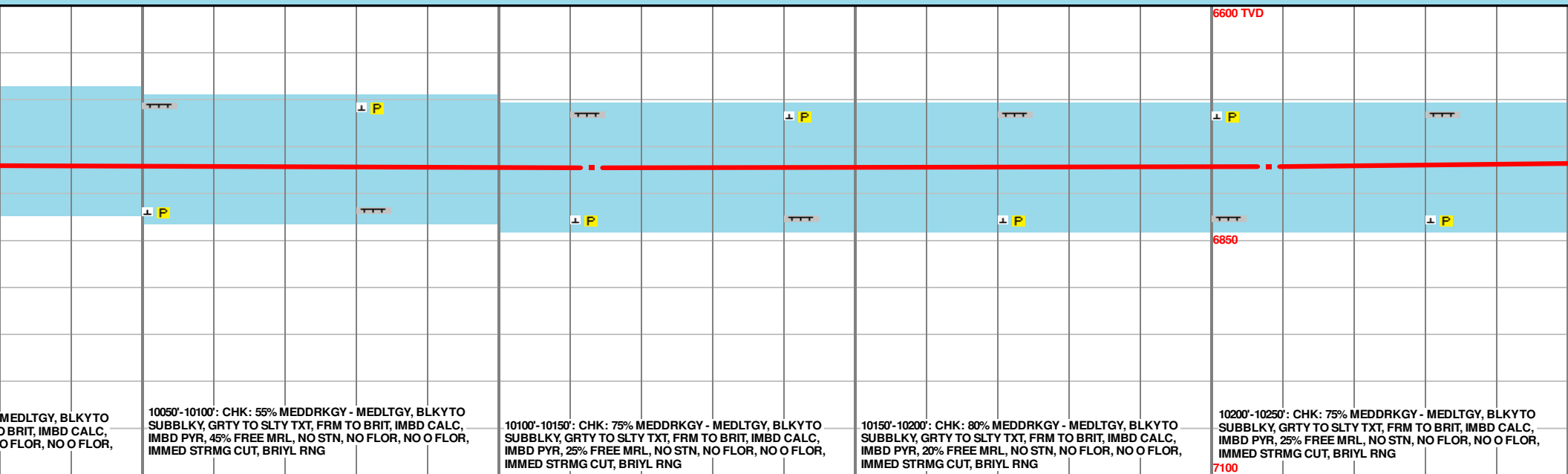
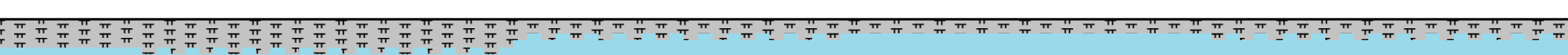
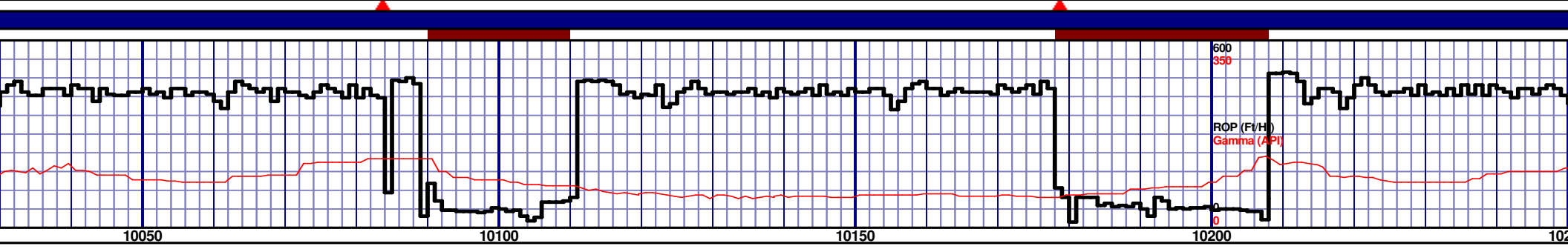
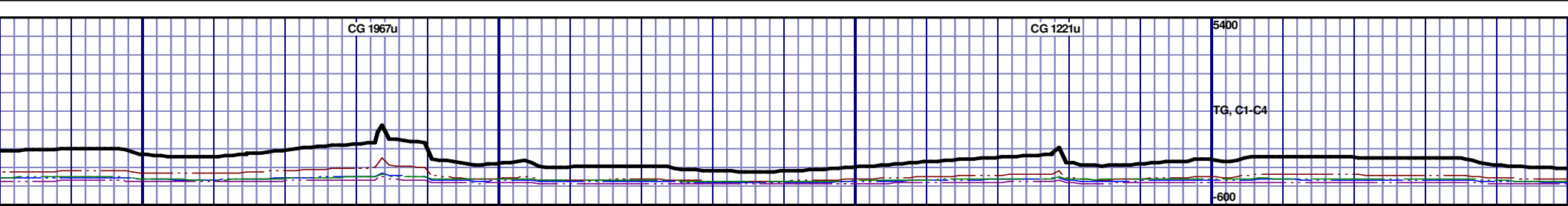


6600 TVD					6600 TVD				
P B					P B				
P B					P B				
6850					6850				
9600'-9650': CHK: 75% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE BENT, IMBD CALC, IMBD PYR, 25% FREE MRL, NO STN, TRC FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG					9650'-9700': CHK: 65% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE BENT, IMBD CALC, IMBD PYR, 35% FREE MRL, NO STN, TRC FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG				
7100					7100				

MD 9640 TVD 6760.77
INC 90.06 AZ 270.27
VS 3170.54

MD 9735 TVD 6762
INC 88.46 AZ 269.54
VS 3265.04





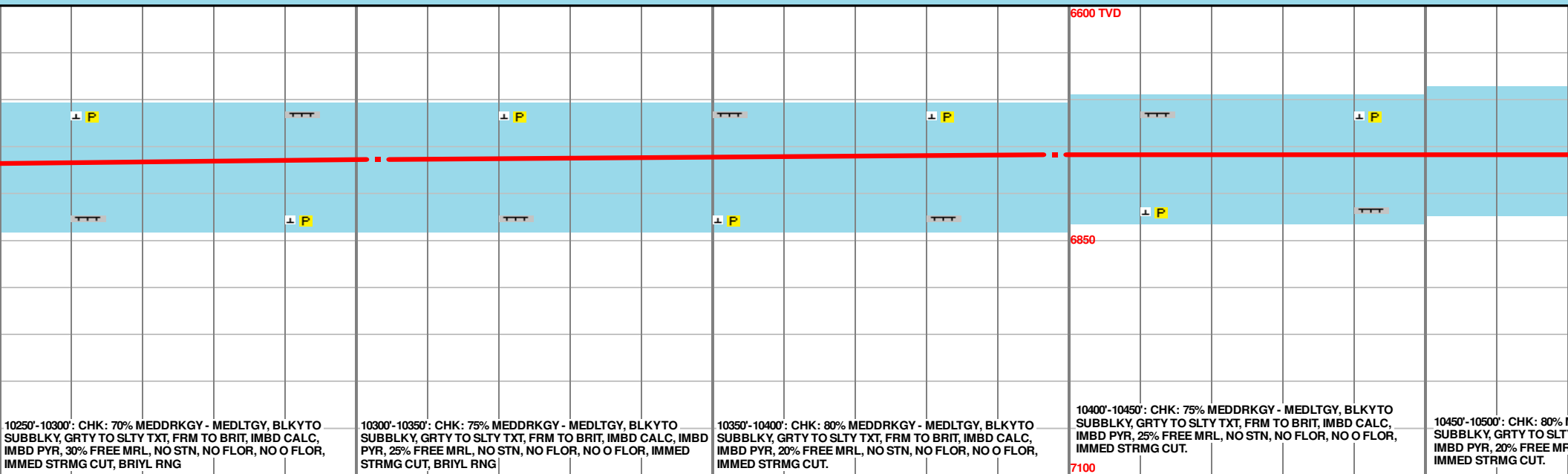
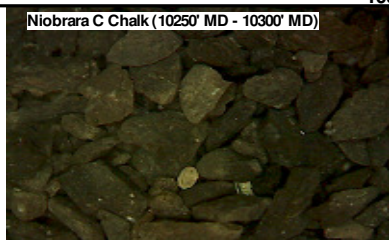
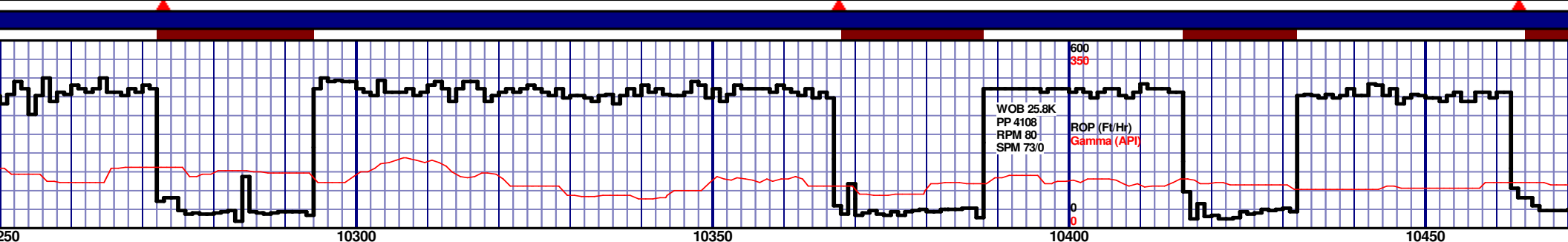
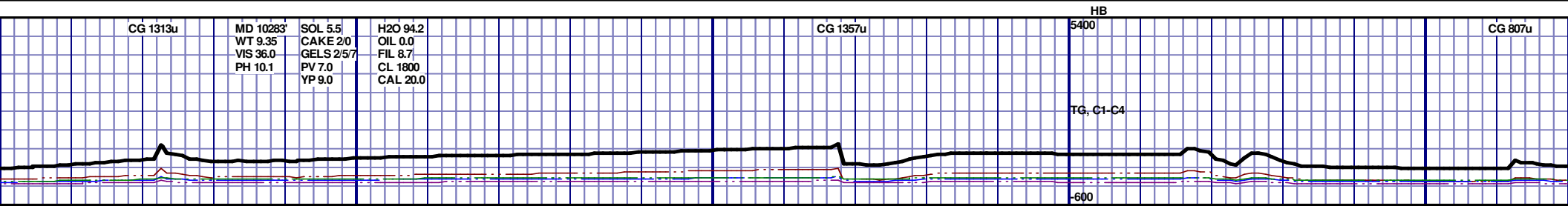
MEDLTGY, BLKYTO
SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, IMBD CALC,
IMBD PYR, 45% FREE MRL, NO STN, NO FLOR, NO O FLOR,
IMMED STRMG CUT, BRIYL RNG

10050'-10100': CHK: 55% MEDDRKGY - MEDLTGY, BLKYTO
SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, IMBD CALC,
IMBD PYR, 45% FREE MRL, NO STN, NO FLOR, NO O FLOR,
IMMED STRMG CUT, BRIYL RNG

10100'-10150': CHK: 75% MEDDRKGY - MEDLTGY, BLKYTO
SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, IMBD CALC,
IMBD PYR, 25% FREE MRL, NO STN, NO FLOR, NO O FLOR,
IMMED STRMG CUT, BRIYL RNG

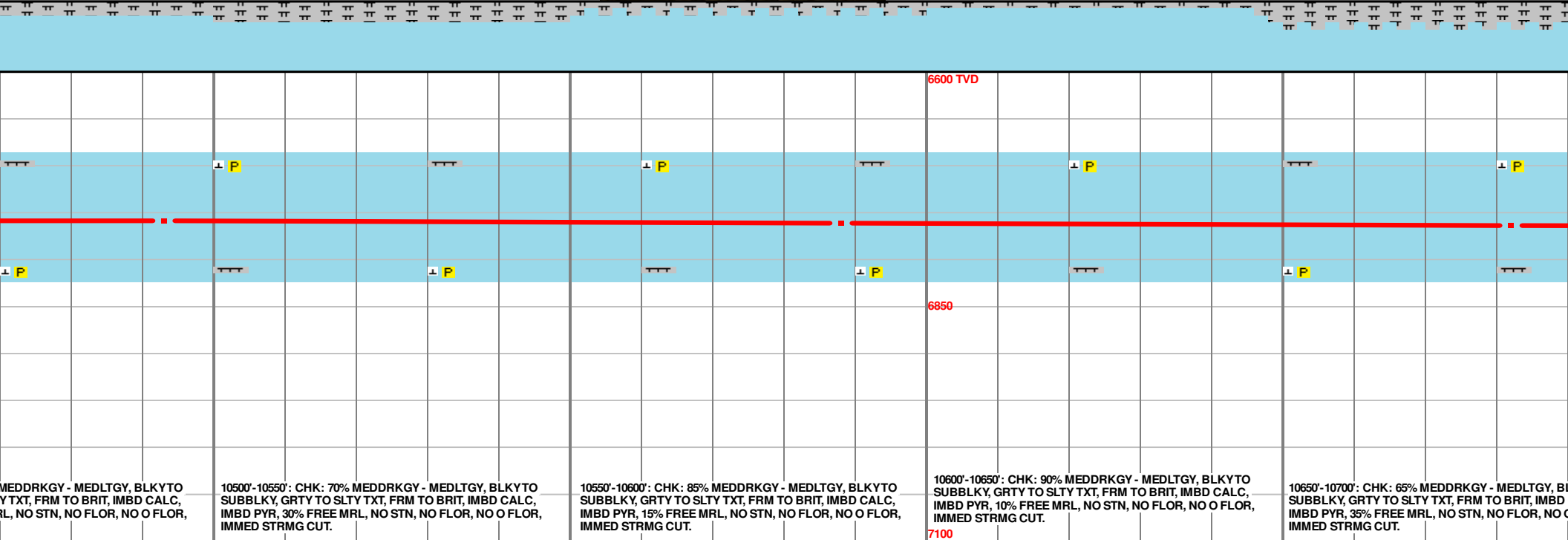
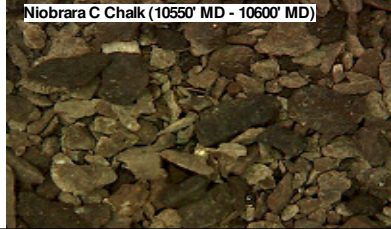
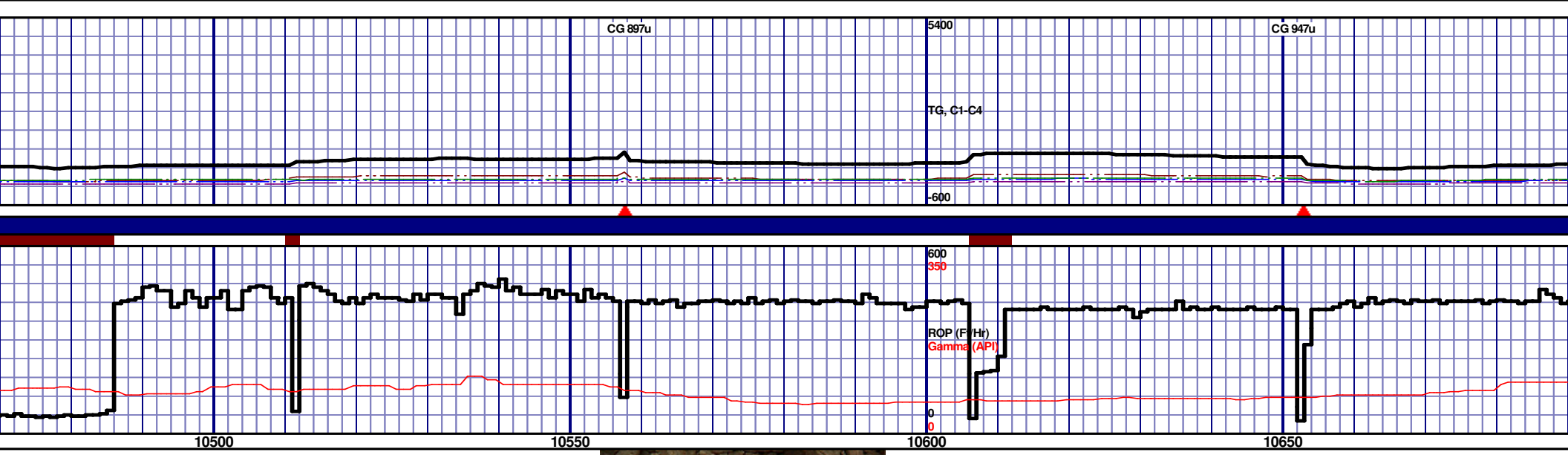
10150'-10200': CHK: 80% MEDDRKGY - MEDLTGY, BLKYTO
SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, IMBD CALC,
IMBD PYR, 20% FREE MRL, NO STN, NO FLOR, NO O FLOR,
IMMED STRMG CUT, BRIYL RNG

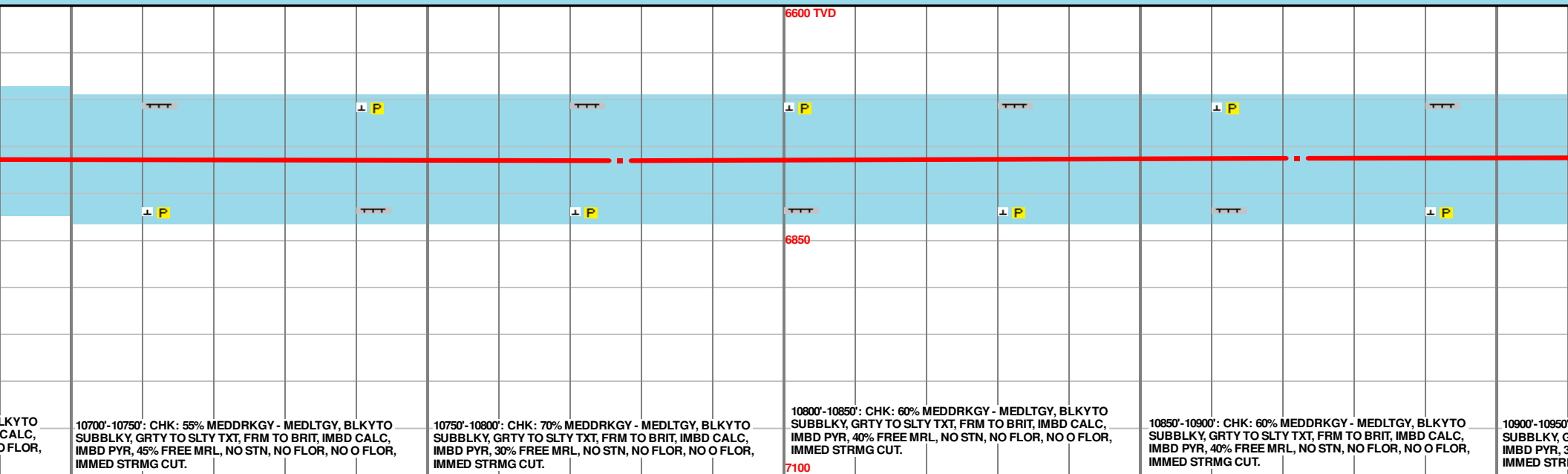
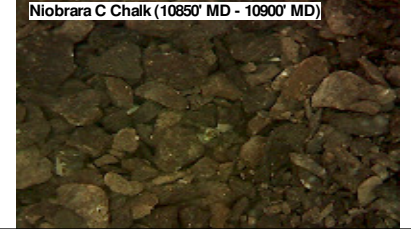
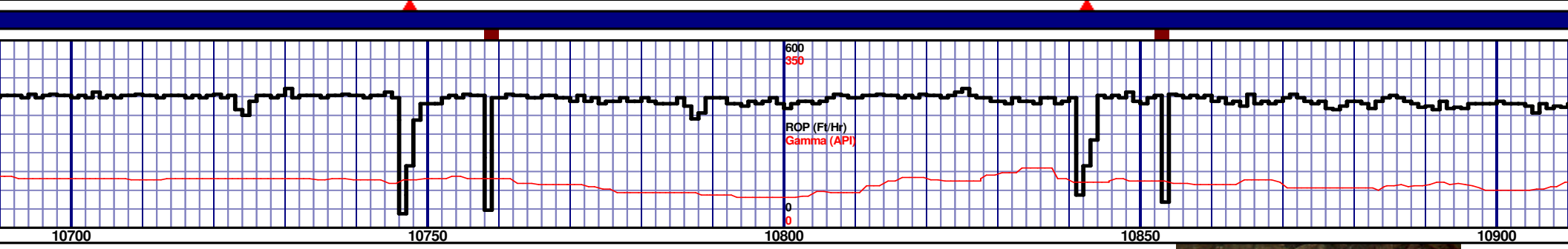
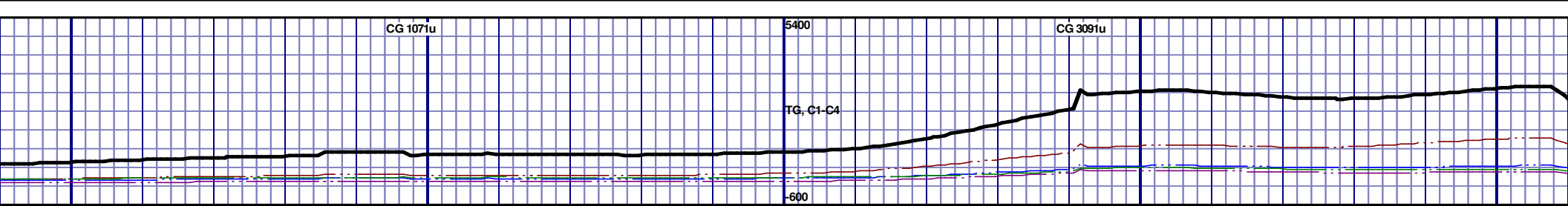
10200'-10250': CHK: 75% MEDDRKGY - MEDLTGY, BLKYTO
SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, IMBD CALC,
IMBD PYR, 25% FREE MRL, NO STN, NO FLOR, NO O FLOR,
IMMED STRMG CUT, BRIYL RNG

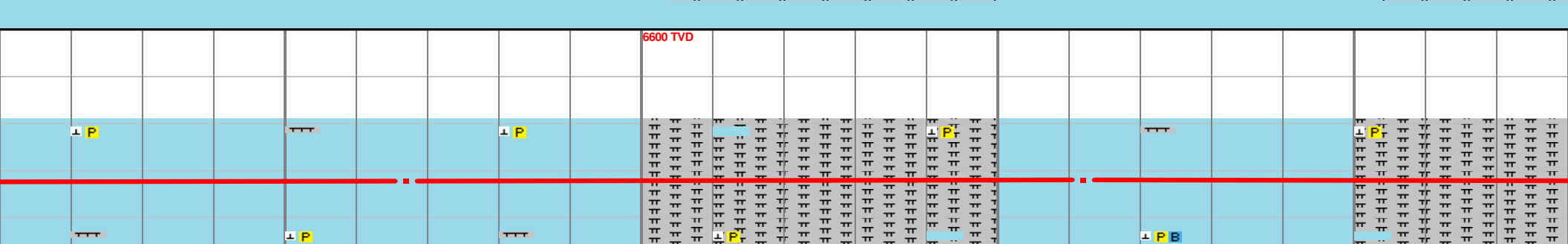
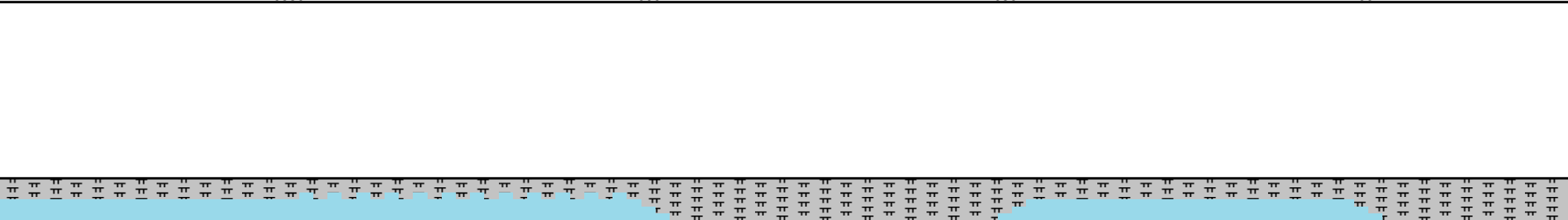
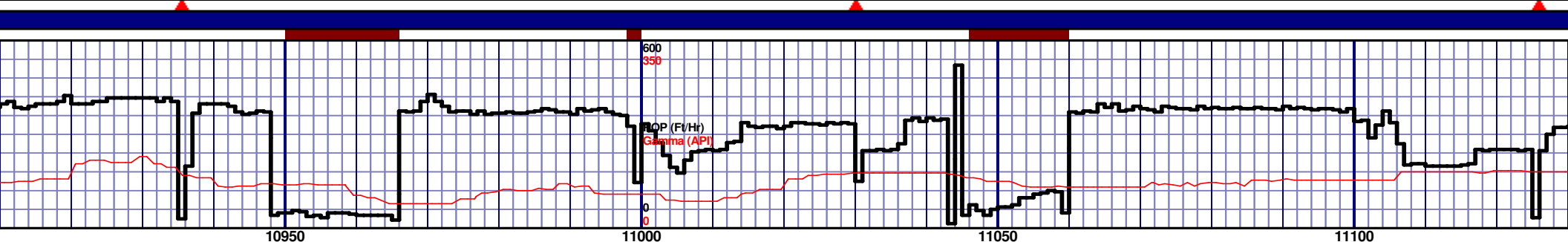


MD 10303 TVD 6764.29
INC 93.83 AZ 269.08
VS 3828.08

MD 10398 TVD 6759.28
INC 92.22 AZ 268.46
VS 3922.24







CHK: 70% MEDDRKGY - MEDLTGY, BLKYTO
GRTY TO SLTY TXT, FRM TO BRIT, IMBD CALC,
100% FREE MRL, NO STN, NO FLOR, NO O FLOR,
MG CUT.

10950'-11000': CHK: 75% MEDDRKGY - MEDLTGY, BLKY TO
SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, IMBD CALC,
IMBD PYR, 25% FREE MRL, NO STN, NO FLOR, NO O FLOR,
IMMED STRMG CUT.

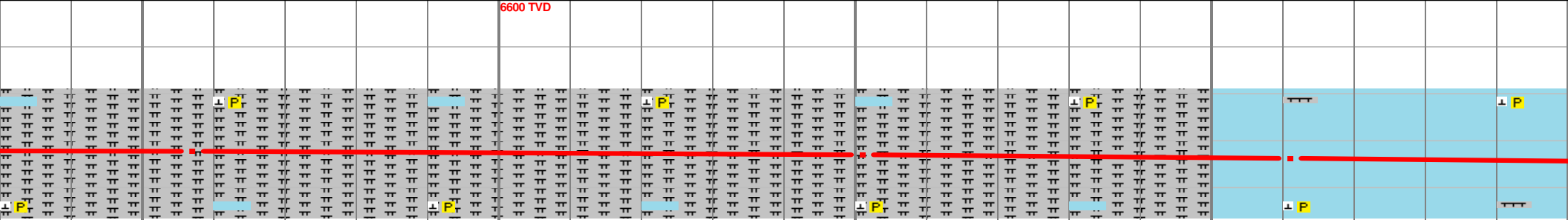
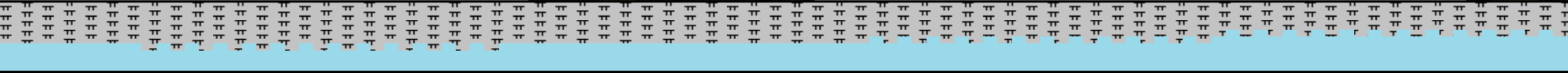
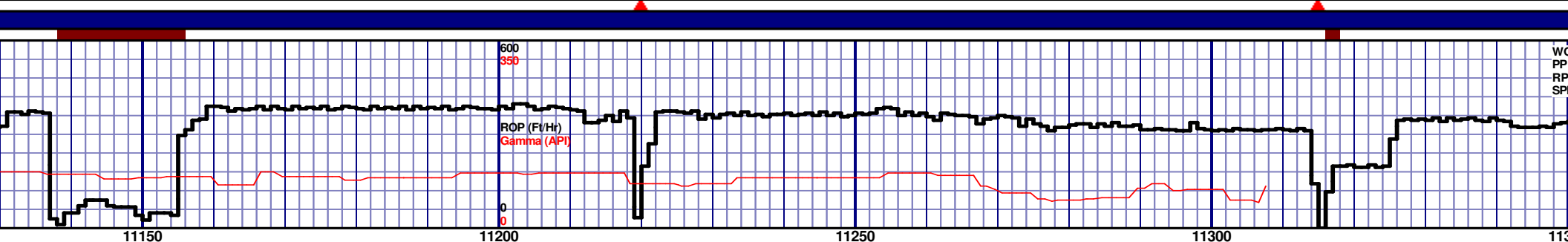
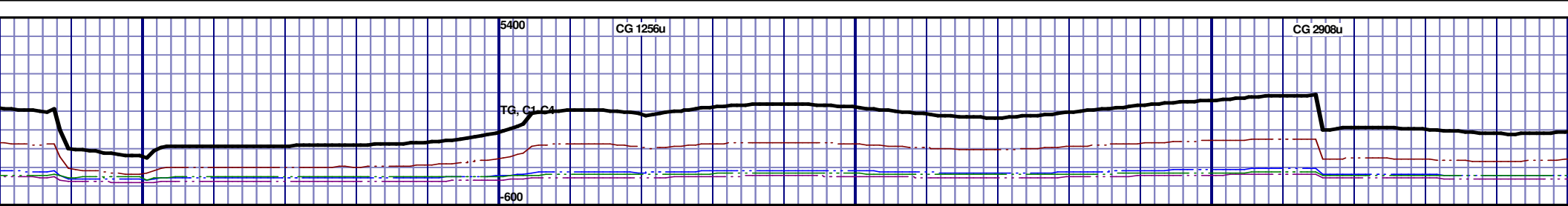
11000'-11050': MRST: 60% MEDDRKGY- MEDLTGY, BLKY TO
SUBBLKY, GR TY TO SLTY TXT, FRM TO BRIT, FREE CALC,
IMBD CALC, IMBD PYR, 40% FREE CHK, NO STN, NO FLOR,
NO O FLOR, IMMED STRMG CUT, BRIYL RNG

11050'-11100': CHK: 70% MEDDRKGY - MEDLTGY, BLKYTO
SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, IMBD PYR,
IMBD CALC, FREE CALC, TRC FREE BENT, 30% FREE MRL,
NO STN, TRC FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL
RNG

11100'-11150': MRST: 60% MEDDRKGY
SUBBLKY, GR TY TO SLTY TXT, FRM T
IMBD CALC, IMBD PYR, 40% FREE CH
NO O FLOR, IMMED STRMG CUT, BRI

MD 10967 TVD 6760.9
INC 90.99 AZ 268.88
VS 4487.64

MD 11062 TVD 6759.83
INC 90.31 AZ 268.1
VS 4581.87



<p>- MEDLTGY, BLKY TO O BRIT, FREE CALC, CHK, NO STN, NO FLOR, YL RNG</p>	<p>11150'-11200': MRST: 65% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE CALC, IMBD CALC, IMBD PYR, 35% FREE CHK, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG</p>	<p>11200'-11250': MRST: 60% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE CALC, IMBD CALC, IMBD PYR, 40% FREE CHK, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG</p>	<p>11250'-11300': MRST: 55% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE CALC, IMBD CALC, IMBD PYR, 45% FREE CHK, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG</p>
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MD 11157 TVD 6761.15
INC 88.09 AZ 267.79
VS 4675.98

MD 11251 TVD 6765.28
INC 86.88 AZ 267.11
VS 4768.9

MD 11311 TVD 6768.89
INC 86.21 AZ 266.71
VS 4828.09

