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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 &
Joe Klumpstra

Log Interval: 6770' MD to 11349' MD

Start Date: June 23, 2014

Release Date: June 25, 2014

Well Information

Well Name: NCLP AA06-69-1BHNC
Horizontal

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

County: Weld
State: Colorado

Drilling Rig: H&P 321

Total Depth: 11349' MD

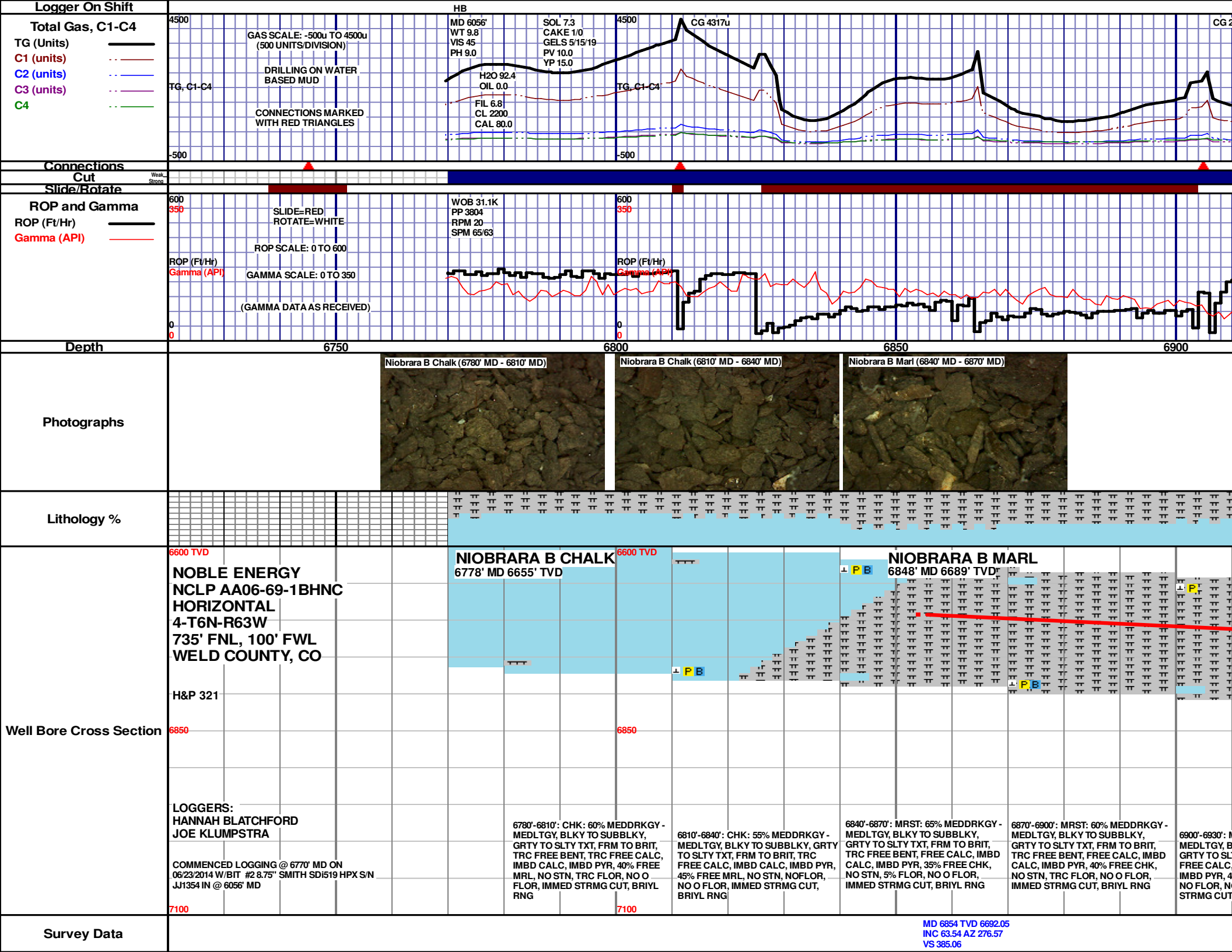
TD Date: June 25, 2014

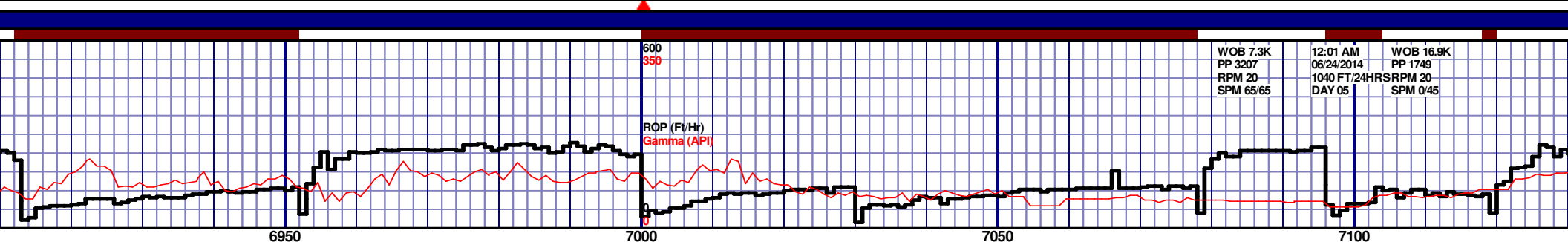
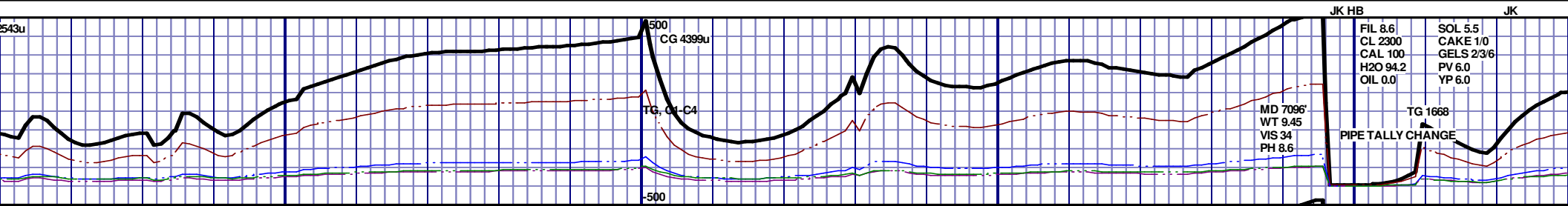
Formation: Niobrara C Chalk

KB Elevation: 4742'

GR Elevation: 4712'

API Number: 05-123-39032-0000





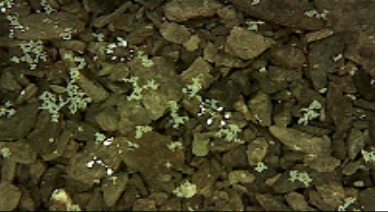
Niobrara B Marl (6990' MD - 7020' MD)



Niobrara C Chalk (7020' MD - 7050' MD)



Niobrara C Chalk (7080' MD - 7110' MD)



Niobrara B Marl (7110' MD - 7150' MD)



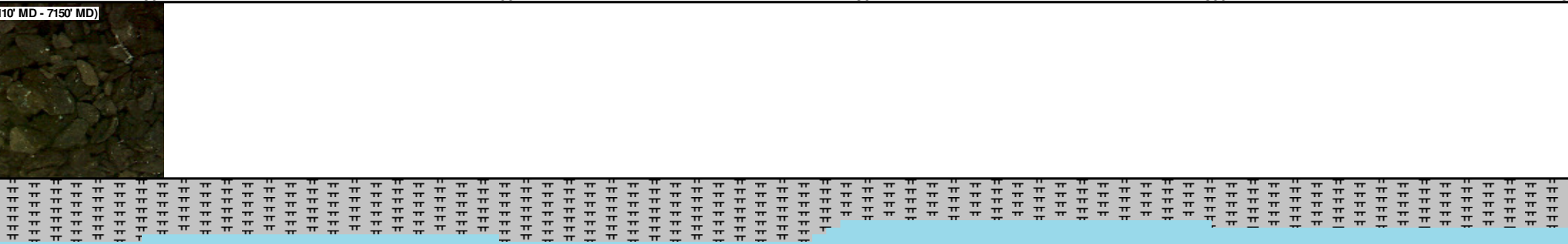
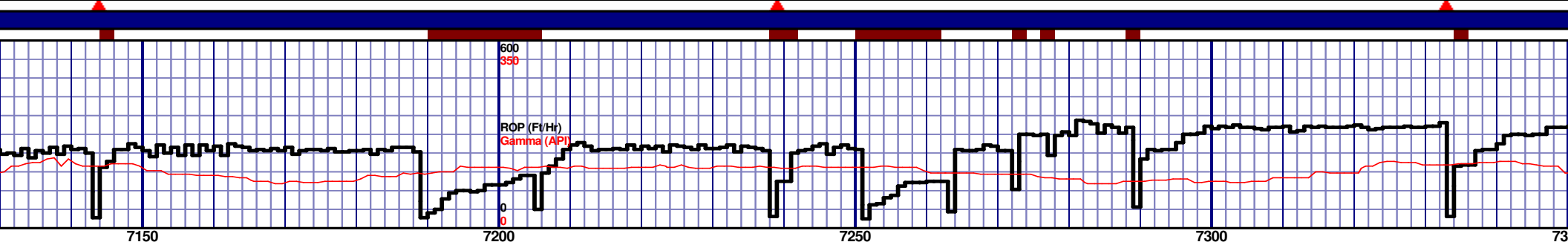
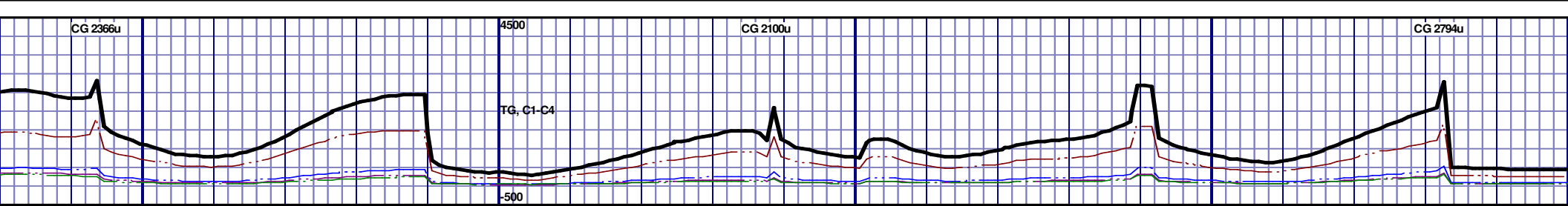
NIOBRARA C CHALK 7025' MD 6736' TVD									
6930'-6960': MRST: 60% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE CALC, ABDT IMBD CALC, 5% FREE CHK, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	6960'-6990': MRST: 65% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE CALC, ABDT IMBD CALC, IMBD PYR, 40% FREE CHK, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	6990'-7020': MRST: 75% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE CALC, ABDT IMBD CALC, IMBD PYR, 25% FREE CHK, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	7020'-7050': CHK: 75% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE CALC, IMBD CALC, IMBD PYR, 25% FREE MRL, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	7050'-7080': CHK: 70% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE CALC, IMBD CALC, IMBD PYR, 30% FREE MRL, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	7080'-7110': CHK: 70% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE CALC, IMBD CALC, IMBD PYR, 30% FREE MRL, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	7110'-7150': MRST: 90% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE CALC, IMBD CALC, IMBD PYR, 10% FREE CHK, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	7150'-7180': MRST: 90% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE CALC, IMBD CALC, IMBD PYR, 10% FREE CHK, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	7180'-7210': MRST: 90% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE CALC, IMBD CALC, IMBD PYR, 10% FREE CHK, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	7210'-7240': MRST: 90% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE CALC, IMBD CALC, IMBD PYR, 10% FREE CHK, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG

TOOH @ 2:30 PM ON 06/23/14 @ 7096' MD FOR INTERMEDIATE CASING OPERATIONS. TIH @ 12:15 PM ON 06/24/14. RESUMED DRILLING @ 4:10 PM ON 06/24/14 W/ BIT #3 6.125" SMITH SDI513 UBXP S/N JJ4464 IN @ 7096' MD

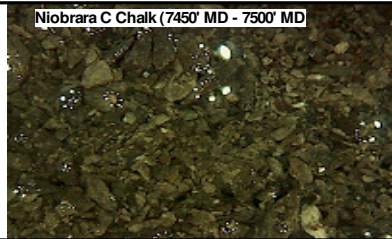
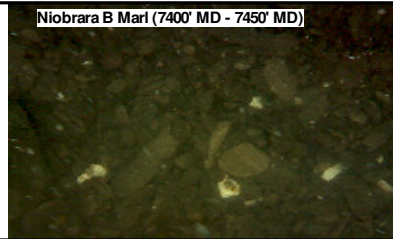
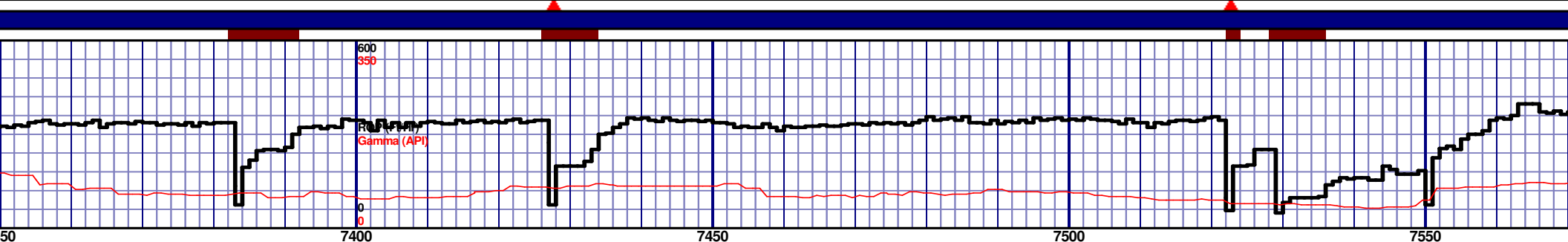
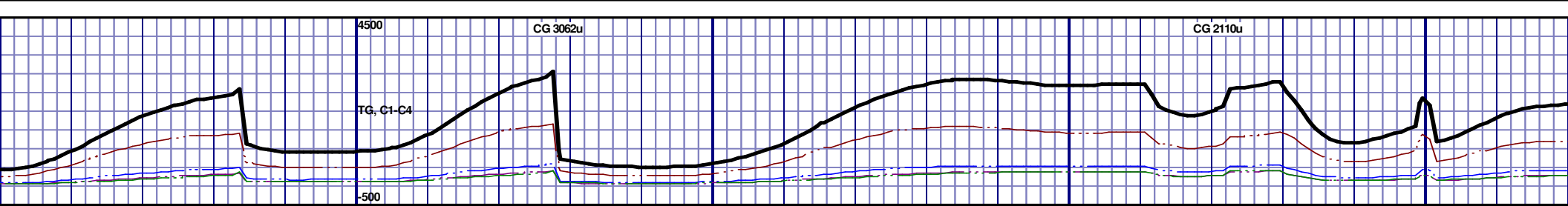
MD 6948 TVD 6724.42
INC 76.1 AZ 278.9
VS 472.5

MD 7043 TVD 6739.26
INC 85.9 AZ 276.95
VS 565.54

MD 712
INC 91.
VS 645.



NIOBRARA B MARL 7138' MD 6741' TVD										6600 TVD									
MEDDRKGY - MEDLTGY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE CALC, ABDT IMBD CALC, IMBD PYR, 10% FREE CHK, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG										7200'-7250': MRST: 90% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE CALC, ABDT IMBD CALC, IMBD PYR, 10% FREE CHK, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG									
7150'-7200': MRST: 80% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE CALC, ABDT IMBD CALC, IMBD PYR, 20% FREE CHK, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG										7250'-7300': MRST: 60% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE CALC, ABDT IMBD CALC, IMBD PYR, 40% FREE CHK, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG									
7300'-7350': MRST: 70% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE CALC, ABDT IMBD CALC, IMBD PYR, 30% FREE CHK, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG										7300'-7350': MRST: 70% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE CALC, ABDT IMBD CALC, IMBD PYR, 30% FREE CHK, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG									

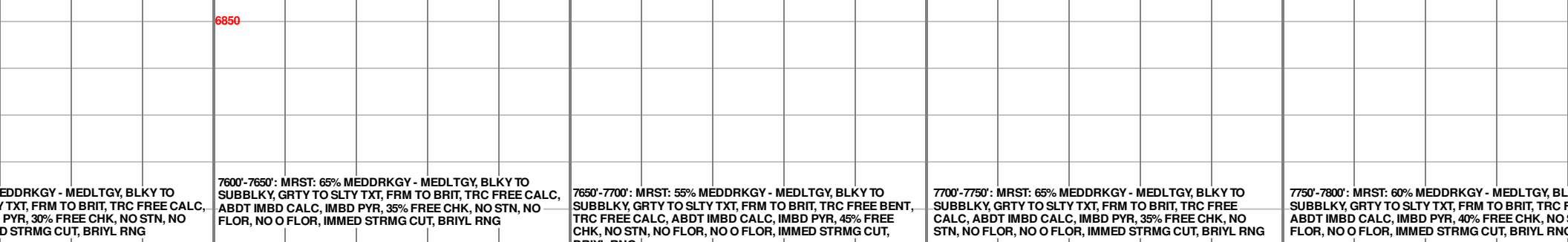
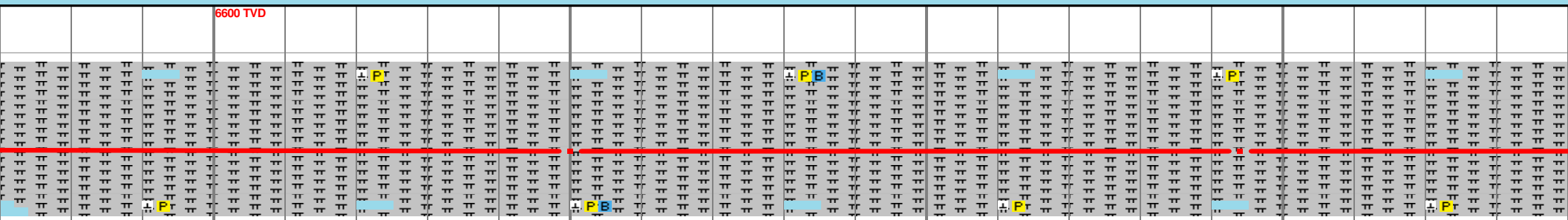
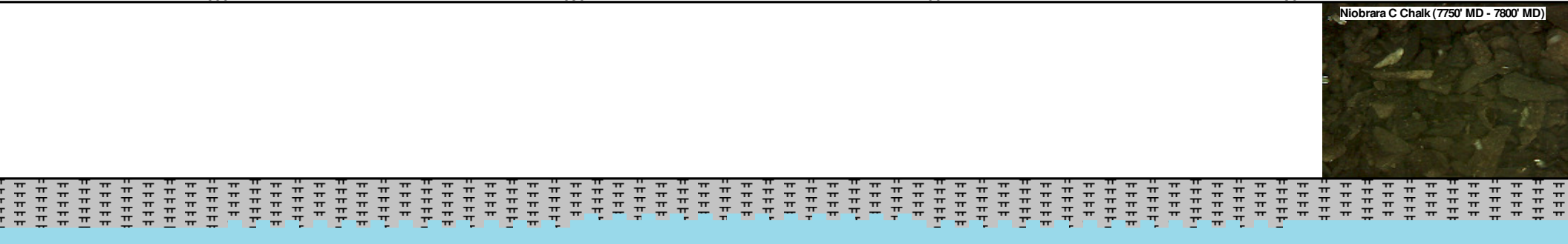
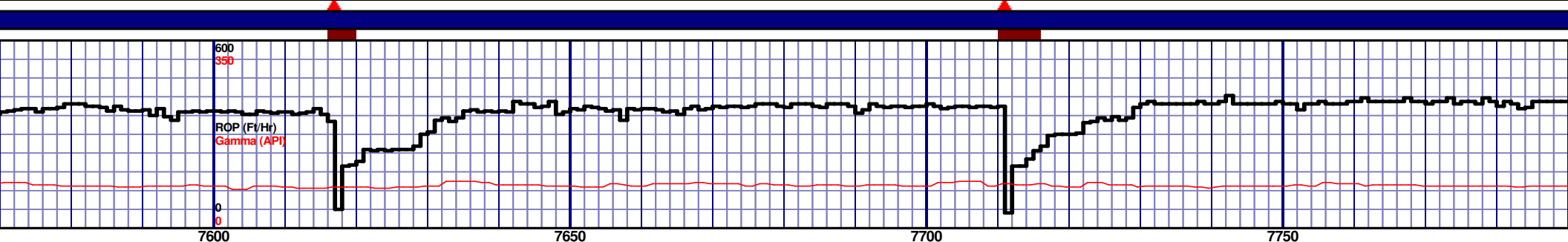


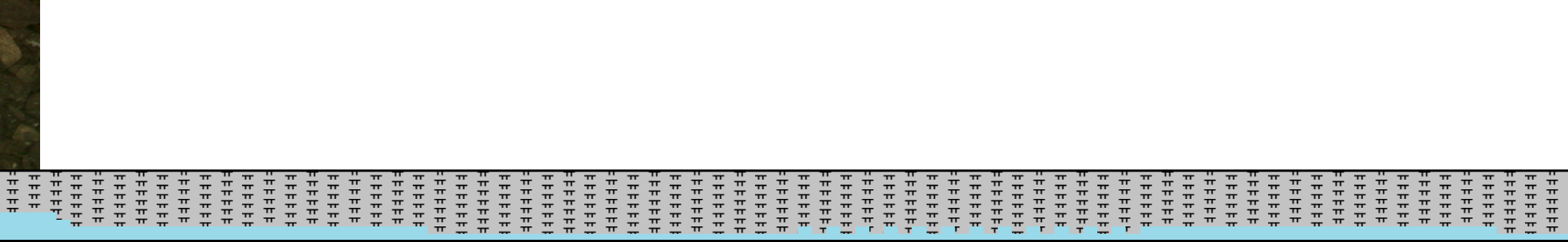
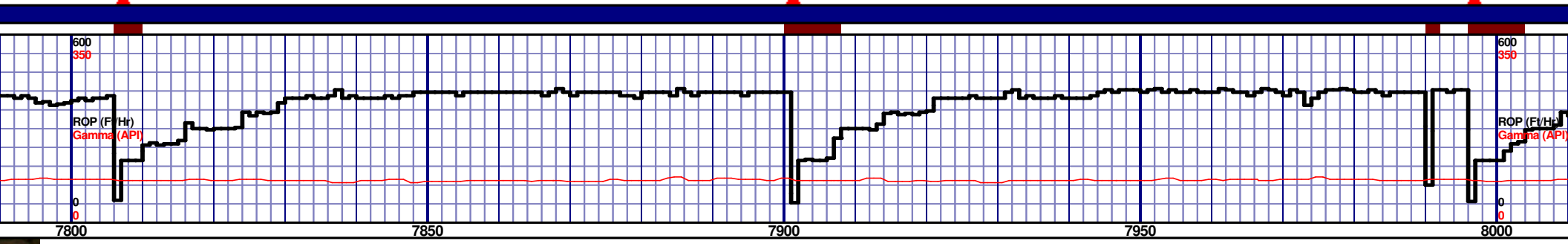
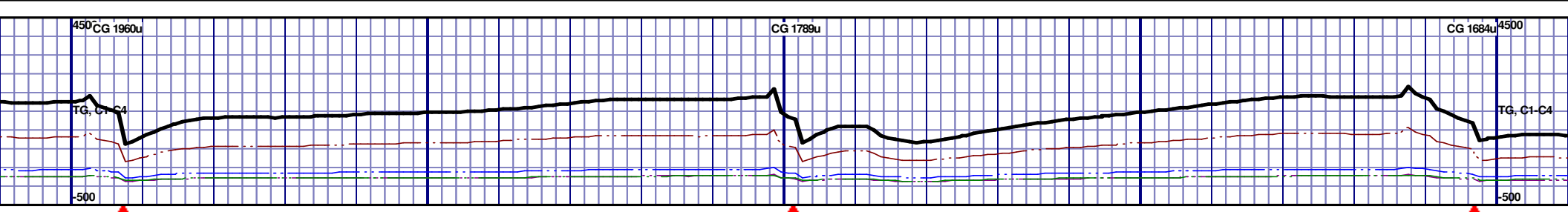
NIOBRARA C CHALK				
7457' MD 6751' TVD				
7350'-7400': MRST: 55% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE CALC, ABDT IMBD CALC, IMBD PYR, 45% FREE CHK, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	7400'-7450': MRST: 70% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE CALC, ABDT IMBD CALC, IMBD PYR, 30% FREE CHK, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	7450'-7500': CHK: 50% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE CALC, IMBD CALC, IMBD PYR, 50% FREE MRL, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	7500'-7550': CHK: 80% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT, TRC FREE CALC, IMBD CALC, IMBD PYR, 20% FREE MRL, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	7550'-7600': MRST: 70% M... SUBBLKY, GRTY TO SLTY... ABDT IMBD CALC, IMBD... FLOR, NO O FLOR, IMME...

MD 7365 TVD 6744.7
INC 87.16 AZ 275.47
VS 885.69

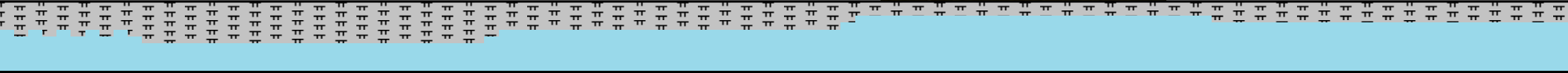
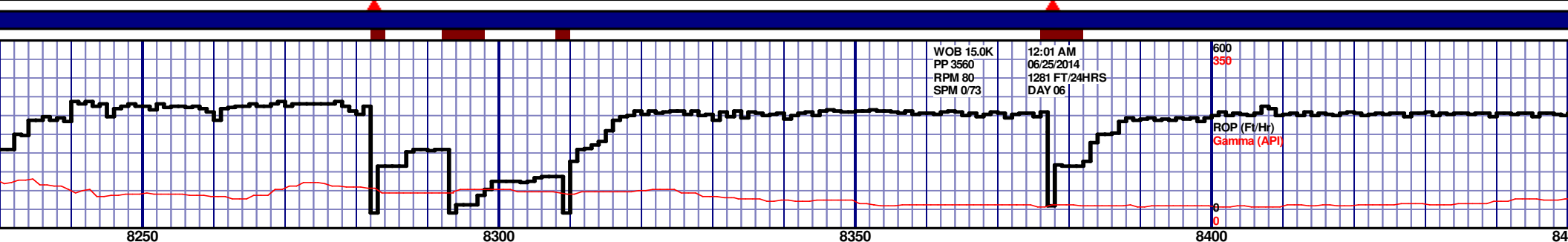
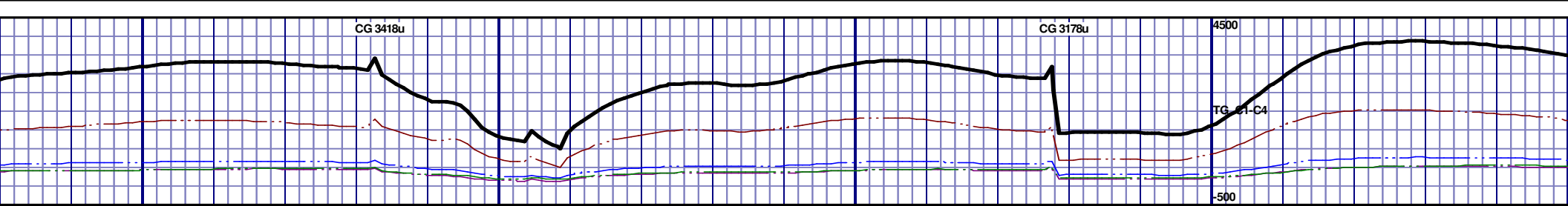
MD 7460 TVD 6749.92
INC 86.54 AZ 275.27
VS 980.27

MD 7555 TVD 6753.3
INC 88.86 AZ 274.95
VS 1074.95

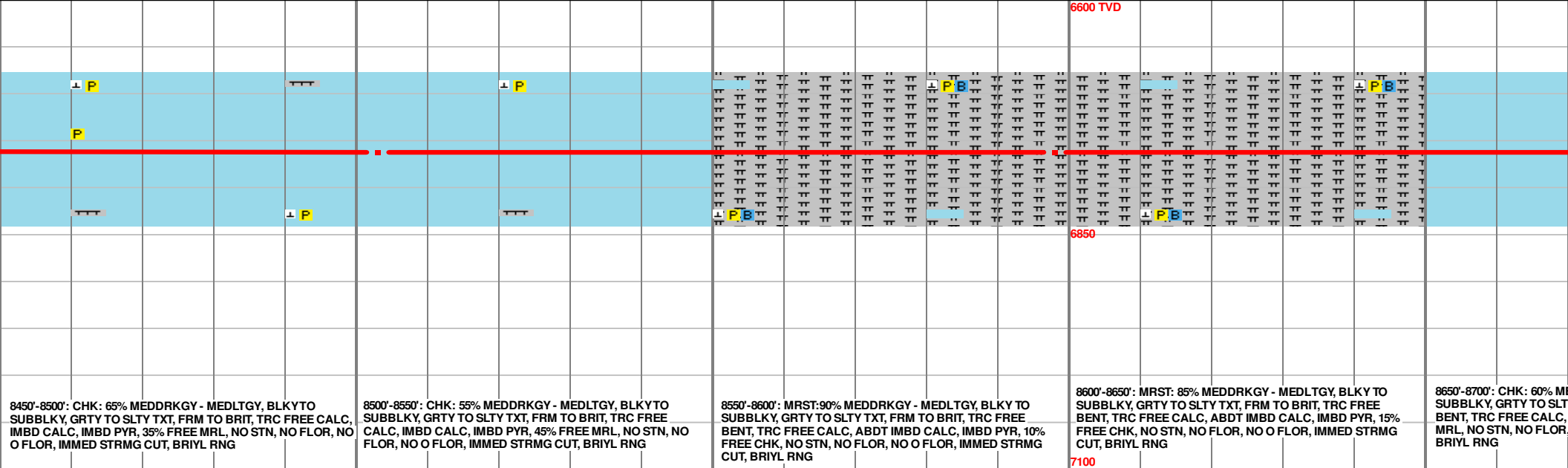
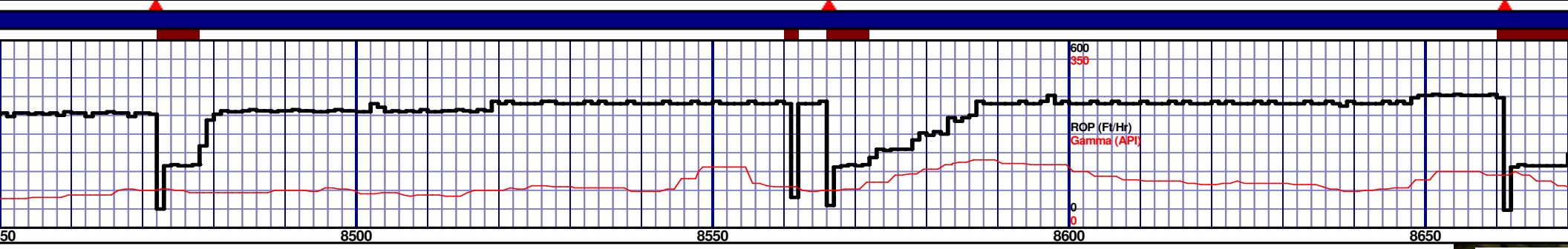
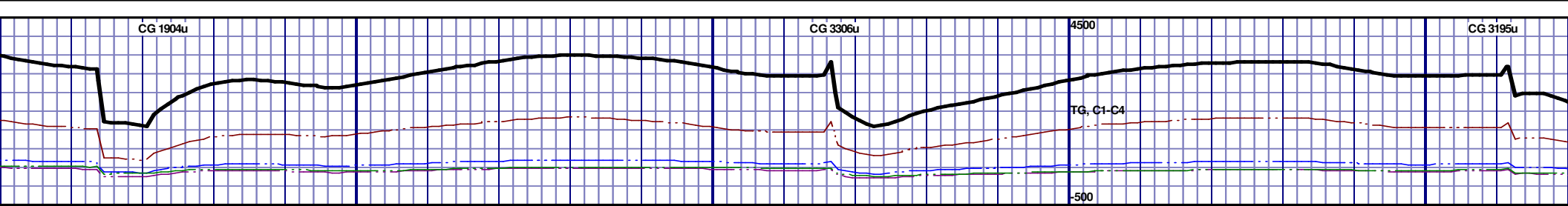


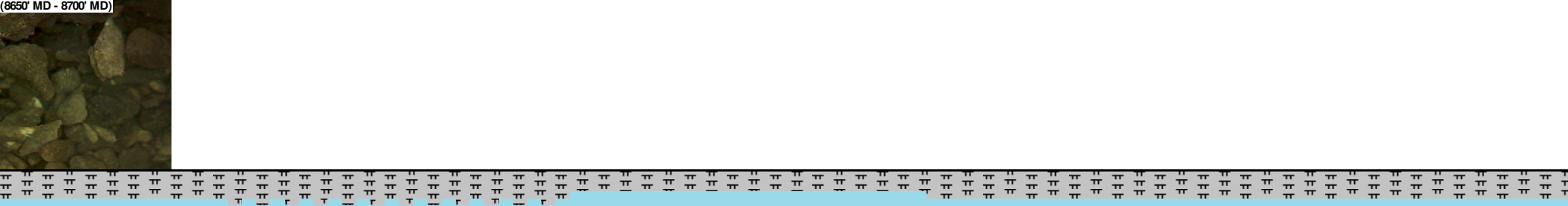
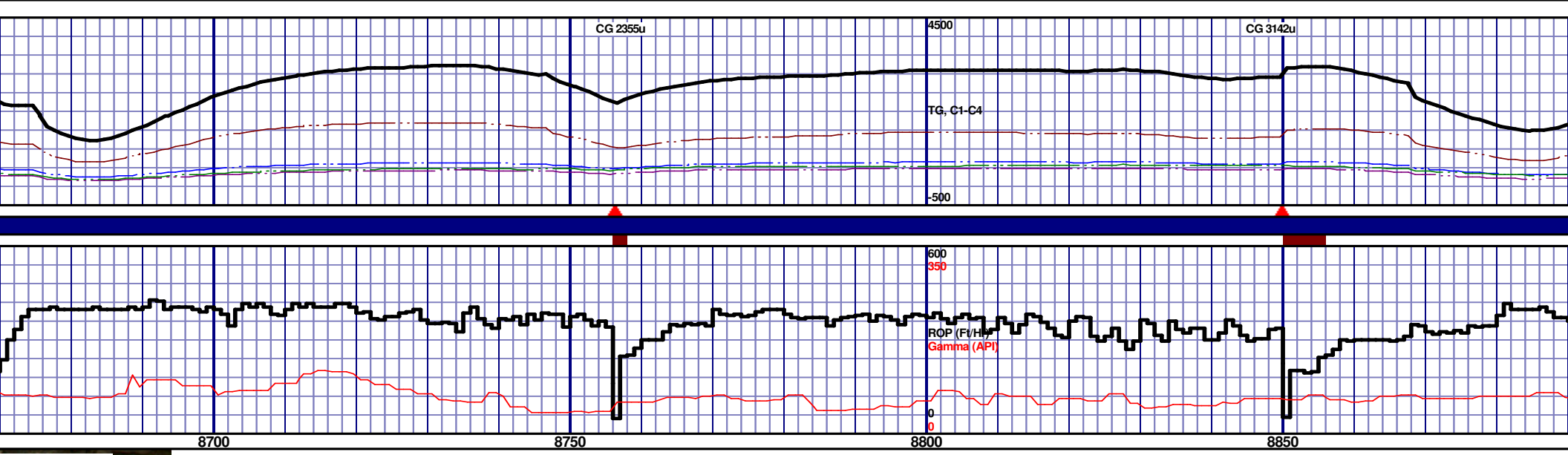


	6600 TVD																					6600 TVD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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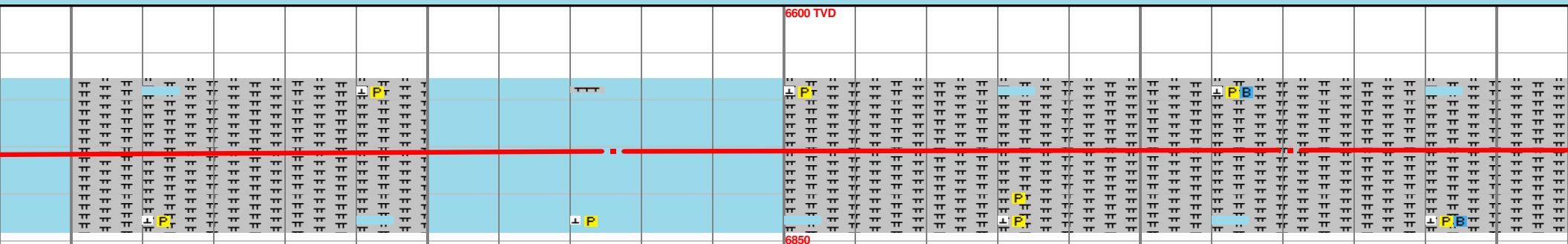
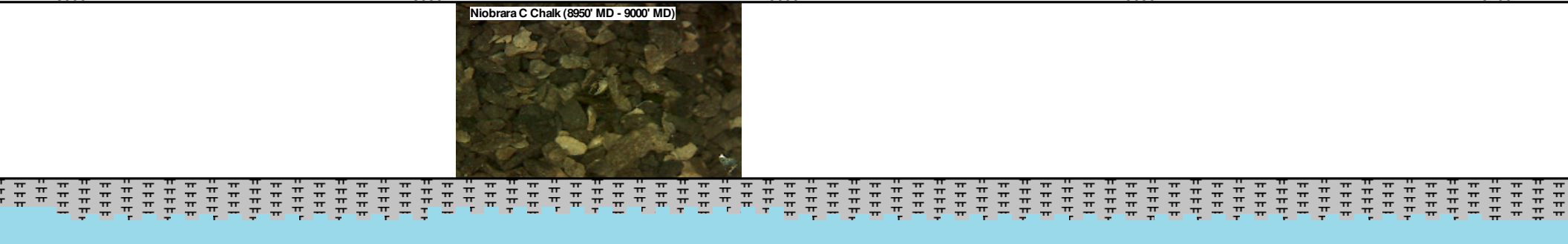
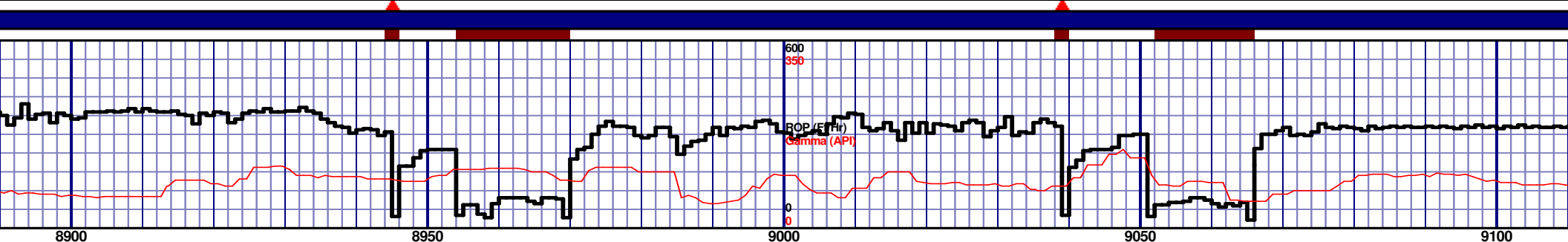


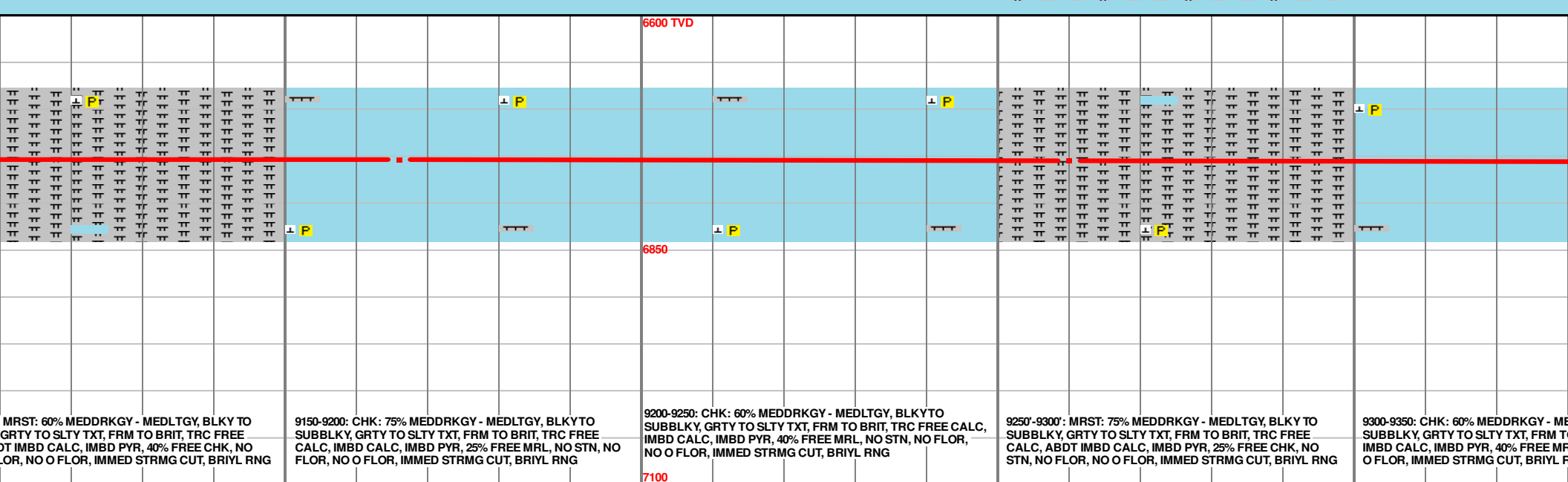
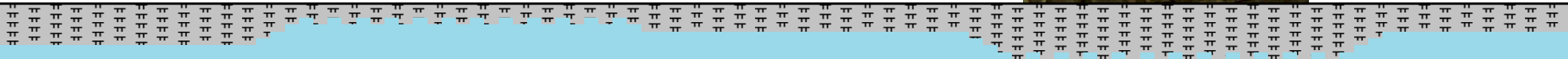
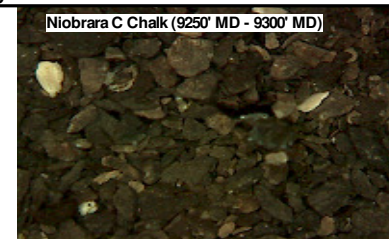
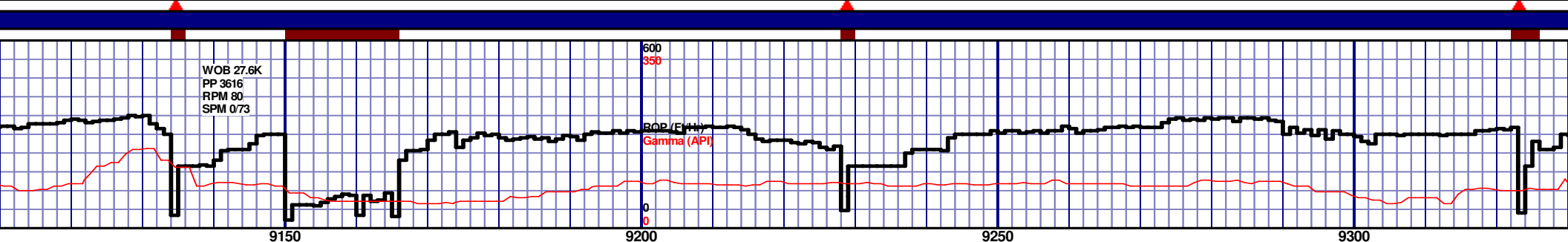
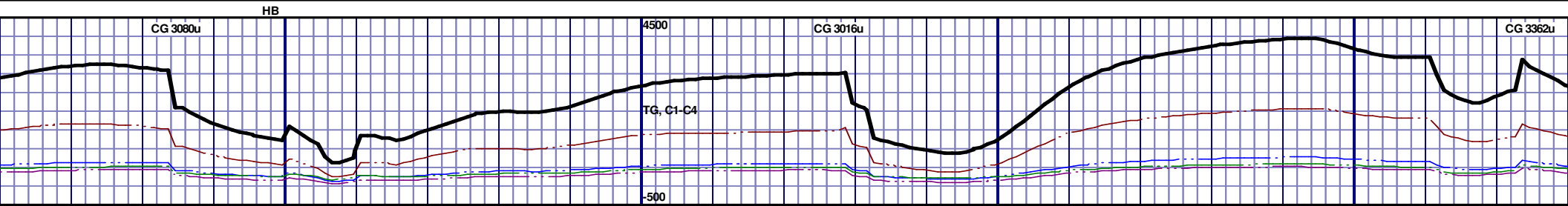
<p>8250'-8300': MRST: 60% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE CALC, ABTD IMBD CALC, IMBD PYR, 40% FREE CHK, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG</p>	<p>8300'-8350': CHK: 60% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE CALC, IMBD CALC, IMBD PYR, 40% FREE MRL, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG</p>	<p>8350'-8400': CHK: 80% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT, TRC FREE CALC, IMBD CALC, IMBD PYR, 20% FREE MRL, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG</p>	<p>8400'-8450': CHK: 70% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE CALC, IMBD CALC, IMBD PYR, 30% FREE MRL, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG</p>
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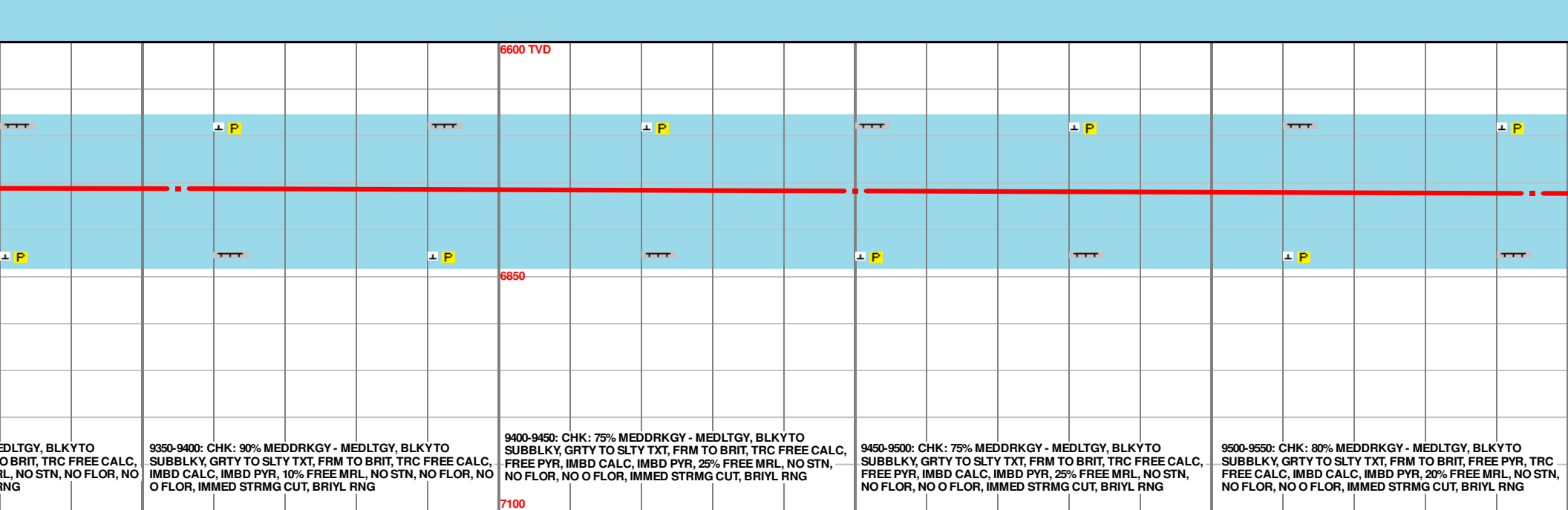
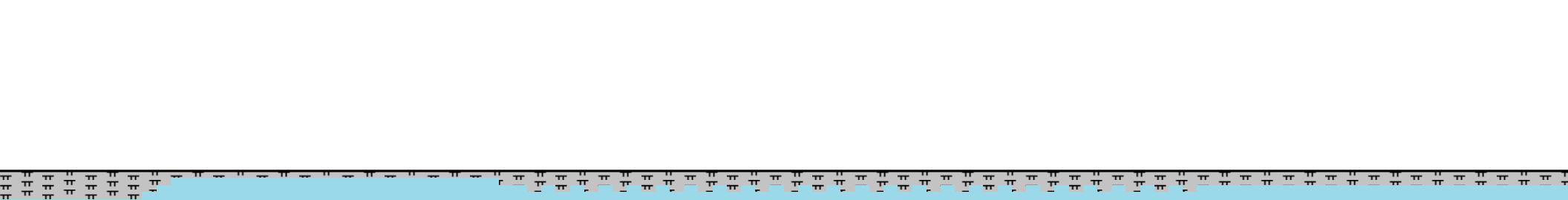
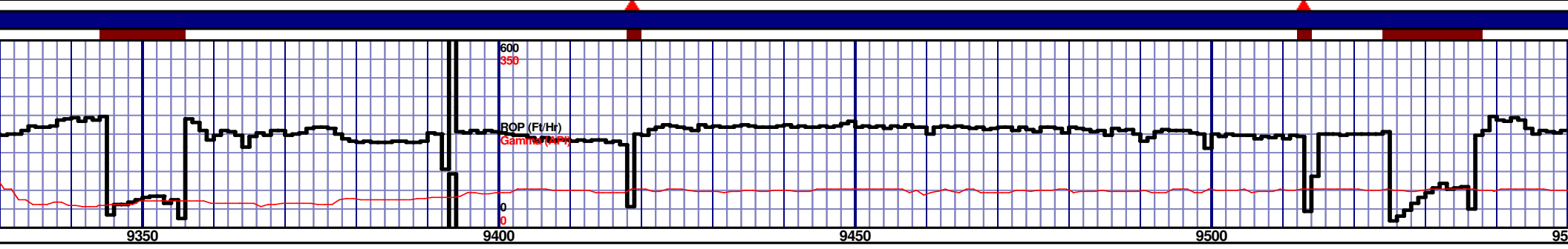
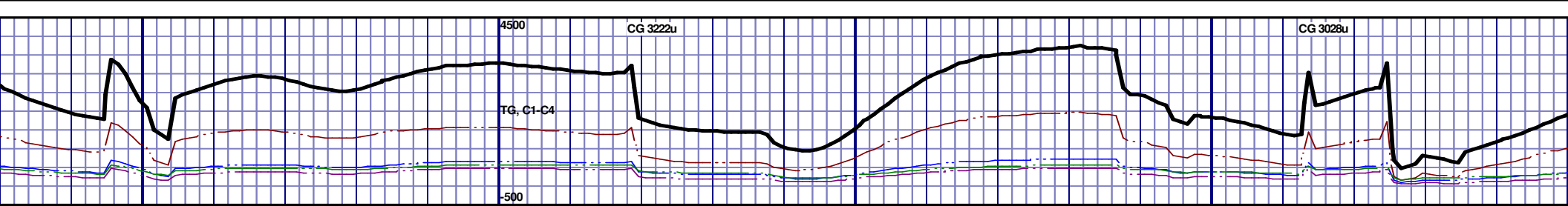
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8700'-8750': CHK: 55% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE CALC. IMBD CALC, IMBD PYR, 40% FREE MRL, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG					8750'-8800': CHK: 70% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE CALC. IMBD CALC, IMBD PYR, 30% FREE MRL, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG					8800'-8850': CHK: 60% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE CALC. IMBD CALC, IMBD PYR, 40% FREE MRL, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG				
8850'-8900': CHK: 60% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE CALC. IMBD CALC, IMBD PYR, 40% FREE MRL, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG					8900'-8950': CHK: 60% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE CALC. IMBD CALC, IMBD PYR, 40% FREE MRL, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG					8950'-9000': CHK: 60% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE CALC. IMBD CALC, IMBD PYR, 40% FREE MRL, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG				

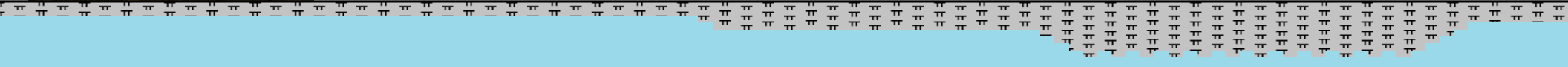
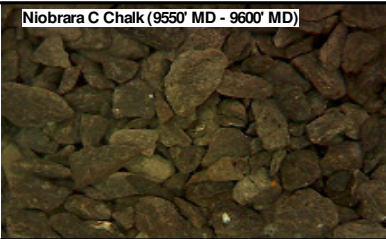
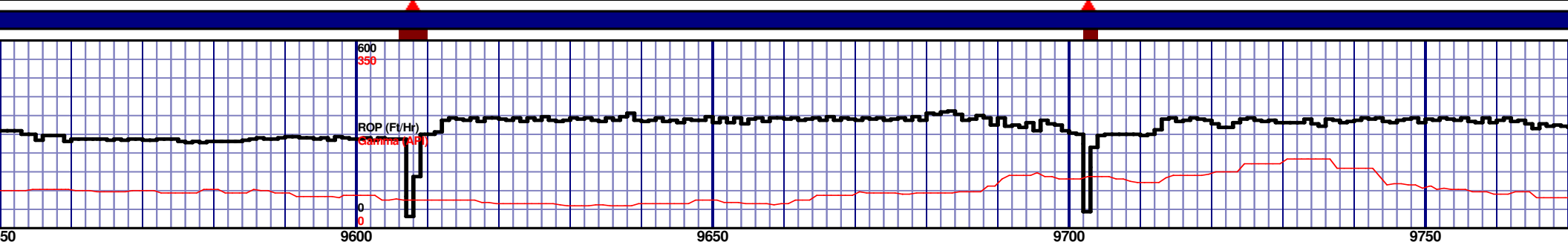
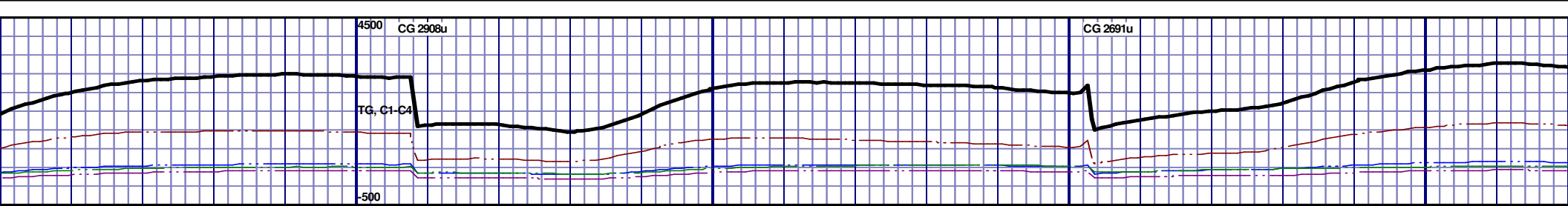
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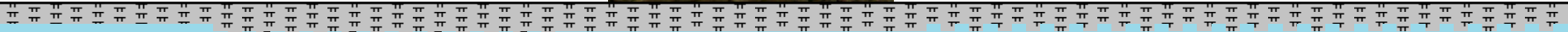
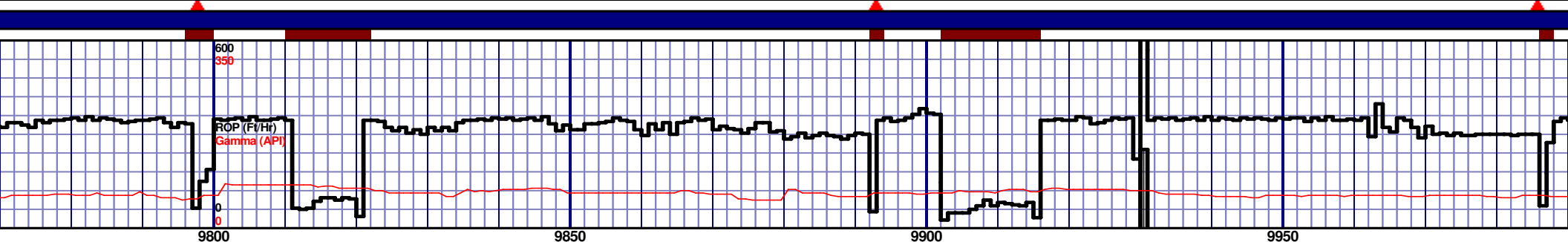
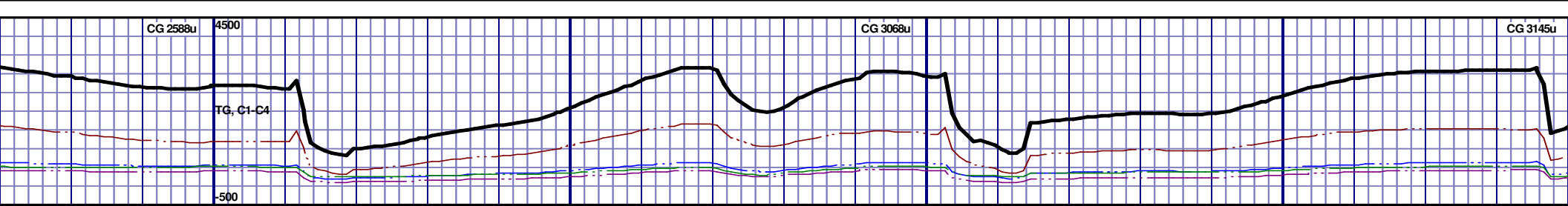
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INC 89.08 AZ 268.42
VS 2683.49

MD 9260 TVD 6754.78
INC 89.91 AZ 268.41
VS 2777.38





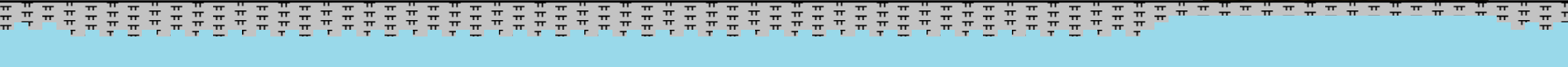
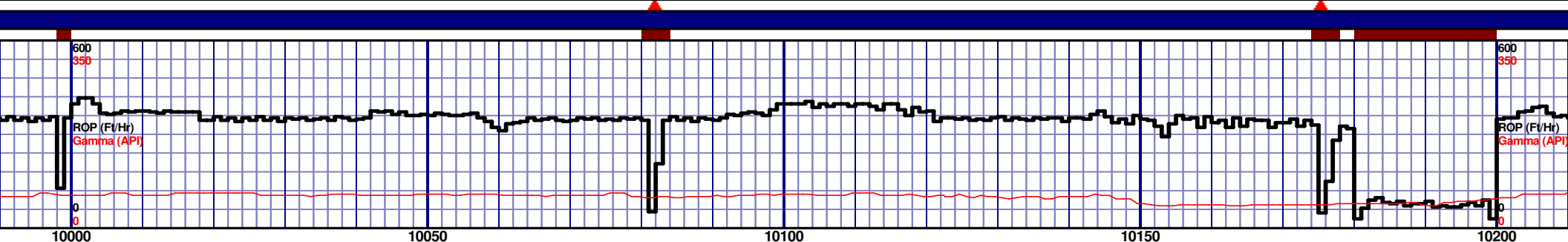
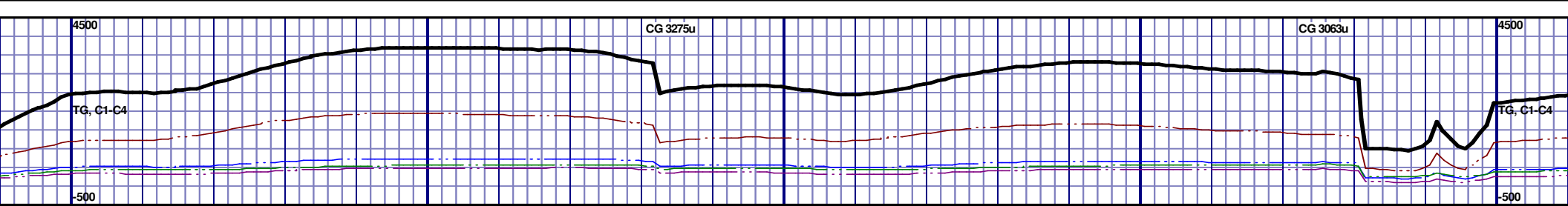
<p>9550-9600: CHK: 80% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE PYR, TRC FREE CALC, IMBD CALC, IMBD PYR, 20% FREE MRL, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG</p>	<p>9600-9650: CHK: 80% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE PYR, TRC FREE CALC, IMBD CALC, IMBD PYR, 20% FREE MRL, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG</p>	<p>9650-9700: CHK: 60% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE PYR, TRC FREE CALC, IMBD CALC, IMBD PYR, 40% FREE MRL, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG</p>	<p>9700'-9750': MRST: 75% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE CALC, ABDT IMBD CALC, IMBD PYR, 25% FREE CHK, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG</p>	<p>9750-9800: CHK: 70% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE CALC, IMBD CALC, IMBD PYR, 20% FREE MRL, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG</p>
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6600 TVD				
6850				
7100				
<p>9800-9850: CHK: 55% MEDDRKGY - MEDLTGY, BLKYO SUBBLKY, GRTO TO SLTY TXT, FRM TO BRIT, FREE PYR, TRC FREE CALC, IMBD CALC, IMBD PYR, 45% FREE MRL, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG</p>				
<p>9850-9900: CHK: 60% MEDDRKGY - MEDLTGY, BLKYO SUBBLKY, GRTO TO SLTY TXT, FRM TO BRIT, FREE PYR, TRC FREE CALC, IMBD CALC, IMBD PYR, 40% FREE MRL, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG</p>				
<p>9900-9950: CHK: 65% MEDDRKGY - MEDLTGY, BLKYO SUBBLKY, GRTO TO SLTY TXT, FRM TO BRIT, FREE PYR, TRC FREE CALC, IMBD CALC, IMBD PYR, 35% FREE MRL, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG</p>				
<p>9950-10000: CHK: 65% MEDDRKGY - MEDLTGY, BLKYO SUBBLKY, GRTO TO SLTY TXT, FRM TO BRIT, FREE PYR, TRC FREE CALC, IMBD CALC, IMBD PYR, 35% FREE MRL, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG</p>				

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INC 88.71 AZ 270.24
VS 3346.76

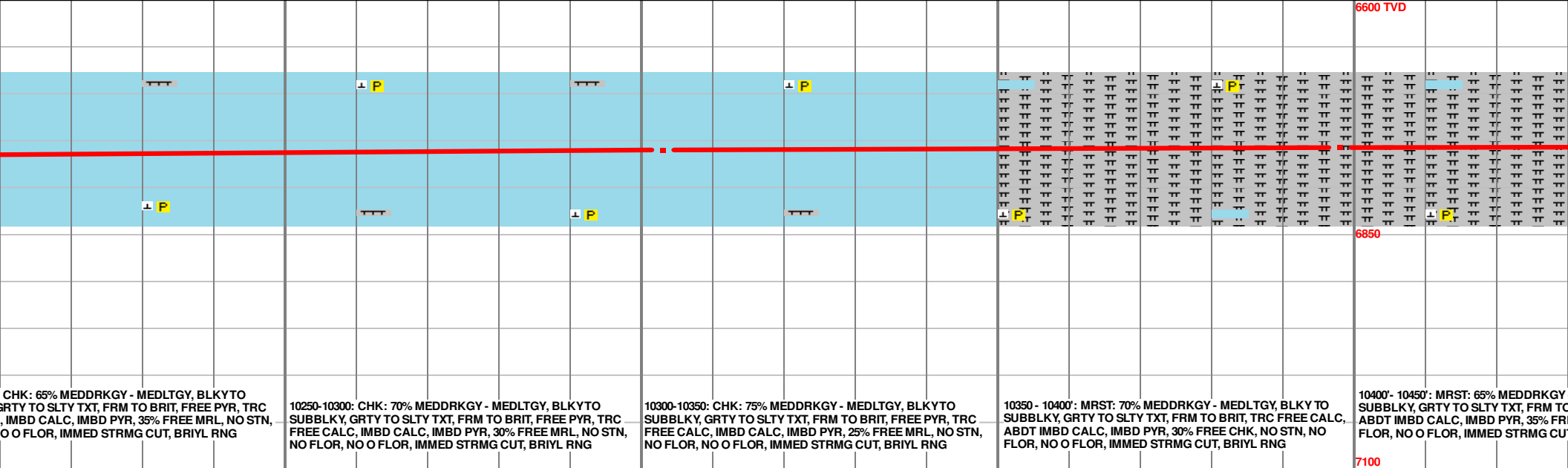
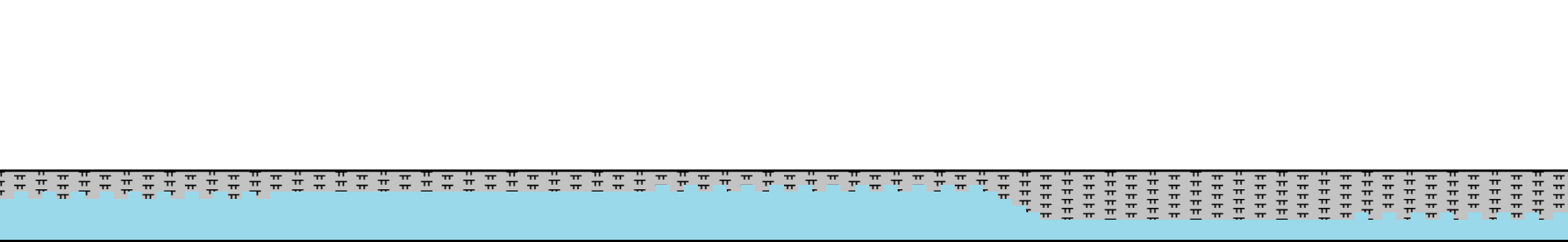
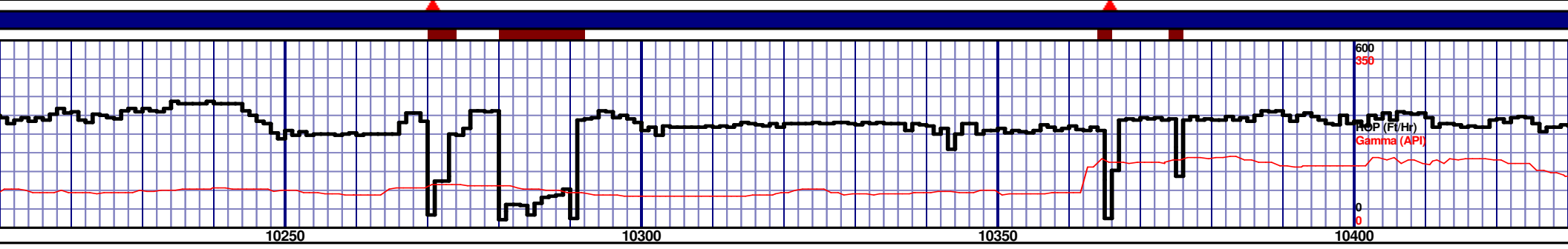
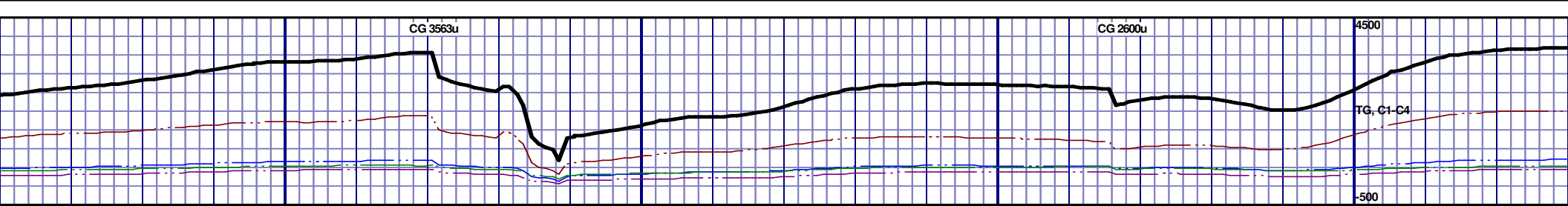
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INC 89.82 AZ 270.11
VS 3440.74

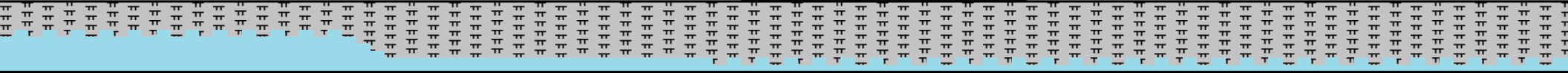
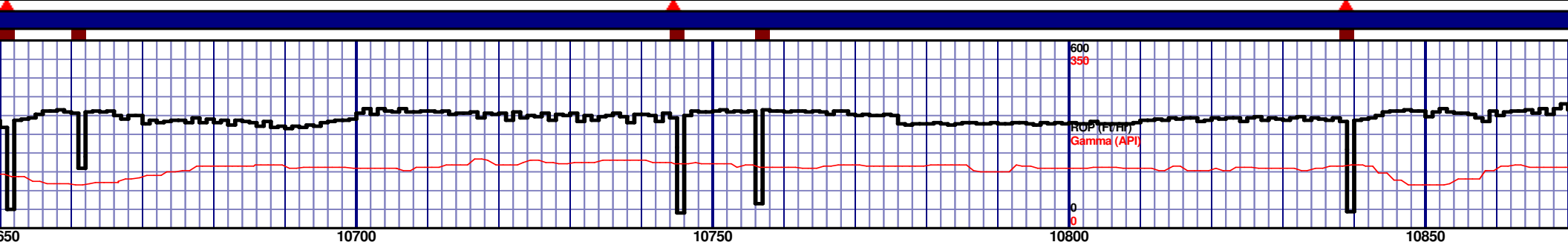
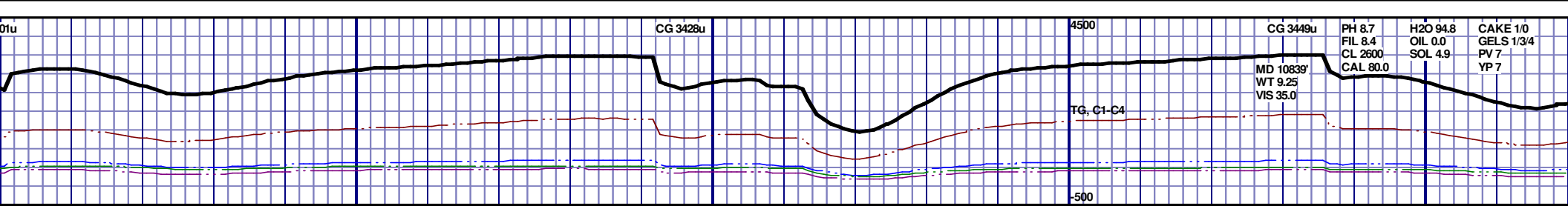


6600 TVD					6600 TVD				
<div>⊥ P</div>					<div>⊥ P</div>				
<div>⊥ P</div>					<div>⊥ P</div>				
6850					6850				
10000-10050: CHK: 55% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE PYR, TRC FREE CALC, IMBD CALC, IMBD PYR, 45% FREE MRL, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG					10050-10100: CHK: 55% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE PYR, TRC FREE CALC, IMBD CALC, 45% FREE MRL, IMBD PYR, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG				
10100-10150: CHK: 55% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE PYR, TRC FREE CALC, IMBD CALC, IMBD PYR, 45% 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, FREE PYR, TRC FREE CALC, IMBD CALC, IMBD PYR, 20% FREE MRL, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG				
10200-10250: SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE PYR, TRC FREE CALC, IMBD CALC, IMBD PYR, 20% FREE MRL, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG					10200-10250: SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE PYR, TRC FREE CALC, IMBD CALC, IMBD PYR, 20% FREE MRL, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG				
7100					7100				

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INC 90.15 AZ 270.67
VS 3535.73

MD 10113 TVD 6766.8
INC 89.38 AZ 271.16
VS 3629.73

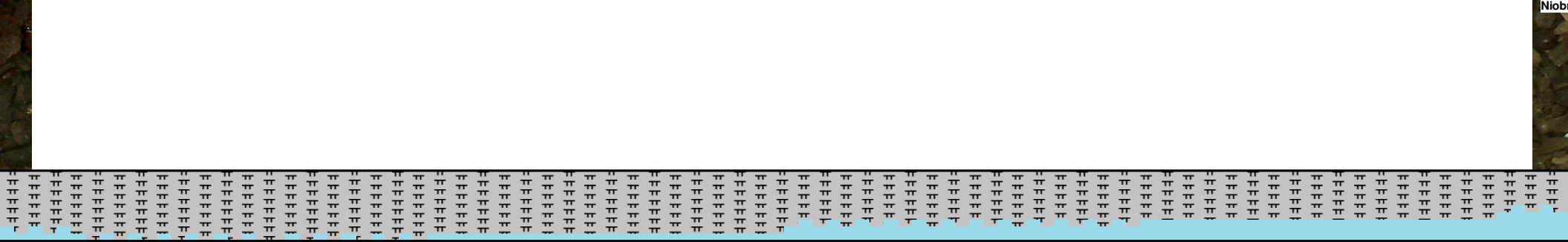
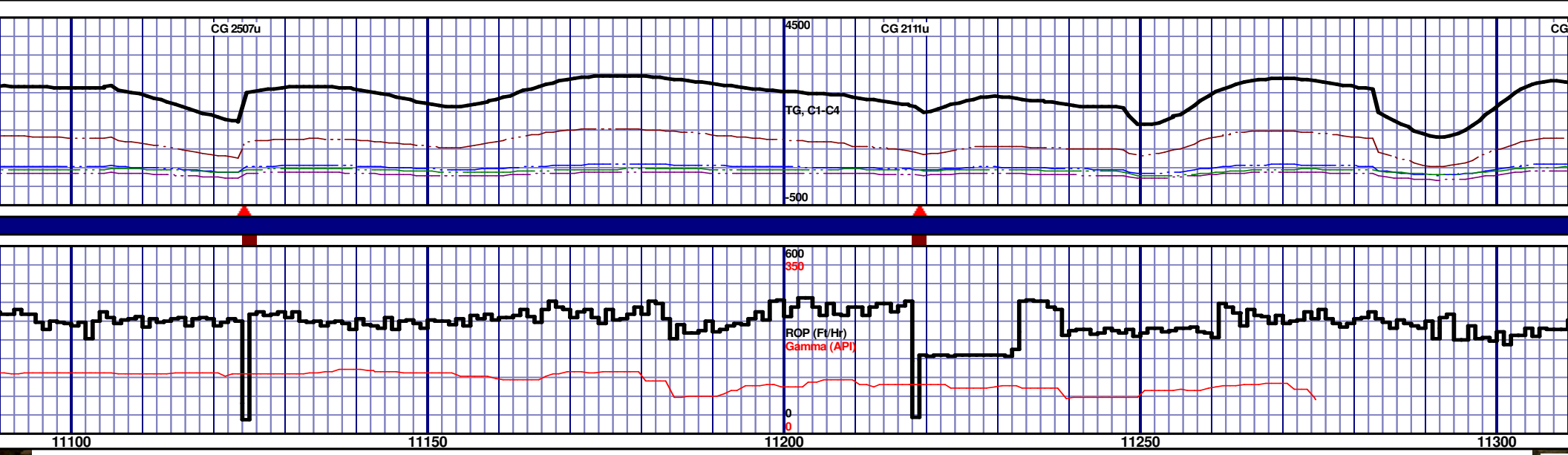




10650-10700: CHK: 55% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE PYR, TRC FREE CALC, IMBD CALC, IMBD PYR, 45% FREE MRL, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG		10700'- 10750': MRST: 80% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE CALC, ABDT IMBD CALC, IMBD PYR, 20% FREE CHK, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG		10750'- 10800': MRST: 85% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, ABDT FREE CALC, ABDT IMBD CALC, IMBD PYR, 15% FREE CHK, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG		10800'- 10850': MRST: 85% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, ABDT FREE CALC, ABDT IMBD CALC, IMBD PYR, 15% FREE CHK, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG		10850'- 10900': MRST: 85% SUBBLKY, GRTY TO SLTY CALC, ABDT IMBD CALC, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	
10650-10700: CHK: 55% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE PYR, TRC FREE CALC, IMBD CALC, IMBD PYR, 45% FREE MRL, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG		10700'- 10750': MRST: 80% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE CALC, ABDT IMBD CALC, IMBD PYR, 20% FREE CHK, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG		10750'- 10800': MRST: 85% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, ABDT FREE CALC, ABDT IMBD CALC, IMBD PYR, 15% FREE CHK, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG		10800'- 10850': MRST: 85% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, ABDT FREE CALC, ABDT IMBD CALC, IMBD PYR, 15% FREE CHK, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG		10850'- 10900': MRST: 85% SUBBLKY, GRTY TO SLTY CALC, ABDT IMBD CALC, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	

MD 10682 TVD 6756.3
INC 89.66 AZ 267.94
VS 4198.19

MD 10777 TVD 6756.91
INC 89.6 AZ 268.02
VS 4293.05



11100' - 11150': MRST: 95% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, ABDT FREE CALC, ABDT IMBD CALC, IMBD PYR, 5% FREE CHK, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	11150' - 11200': MRST: 90% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, ABDT FREE CALC, ABDT IMBD CALC, IMBD PYR, 10% FREE CHK, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	11200' - 11250': MRST: 75% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, ABDT FREE CALC, ABDT IMBD CALC, IMBD PYR, 25% FREE CHK, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	11250' - 11300': MRST: 70% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, ABDT FREE CALC, ABDT IMBD CALC, IMBD PYR, 30% FREE CHK, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	11300' - 11349': MRST: 65% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, ABDT FREE CALC, ABDT IMBD CALC, IMBD PYR, 35% FREE CHK, NO STN, NO FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG
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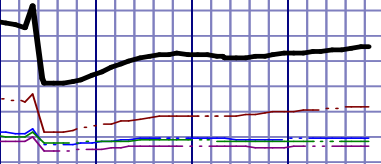
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VS 4672.48

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INC 90.46 AZ 267.21
VS 4766.29

MD 11284 TVD 6757.77
INC 90.86 AZ 267.65
VS 4799.22

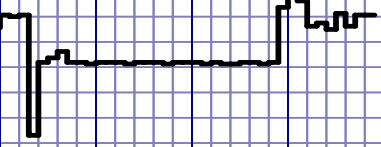
3088u

BOTTOMS UP GAS
2280u

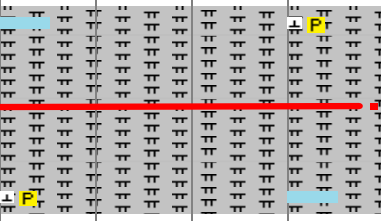
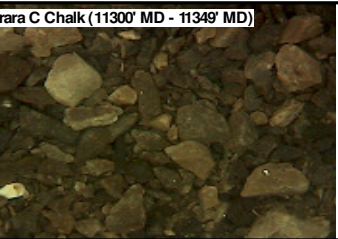


WOB 27.0K
PP 4022
RPM 80
SPM 0/72

DRILLERS TD @ 6:50PM
ON 06/25/2014 @ 11349'
MD



Crara C Chalk (11300' MD - 11349' MD)



TD @ 11349' MD

RELEASED ON 06/25/2014

THANK YOU FROM
HANNAH BLATCHFORD,
JOE KLUMPSTRA,
AND HORIZON WELL
LOGGING, LLC

MRST: 55% MEDDRKGY - MEDLTGY, BLKY TO
GRTY TO SLTY TXT, FRM TO BRIT, ABDT FREE
T IMBD CALC, IMBD PYR, 45% FREE CHK, NO STN,
O O FLOR, IMMED STRMG CUT, BRIYL RNG