



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: Cassidy Miller
Noble Energy Inc.

Mud Logging Details

Logger: Andrew Christiano & Hannah
Blatchford

Log Interval: 6650' MD to 16290' MD

Start Date: December 13, 2013

Release Date: December 19, 2013

Well Information

Well Name: NCLP PC AA04-69-1HN
Horizontal

Location: 4-T6N-R63W
660' FNL, 250' FWL

County: Weld Co.
State: Colorado

Drilling Rig: H&P 321

Total Depth: 16290' MD

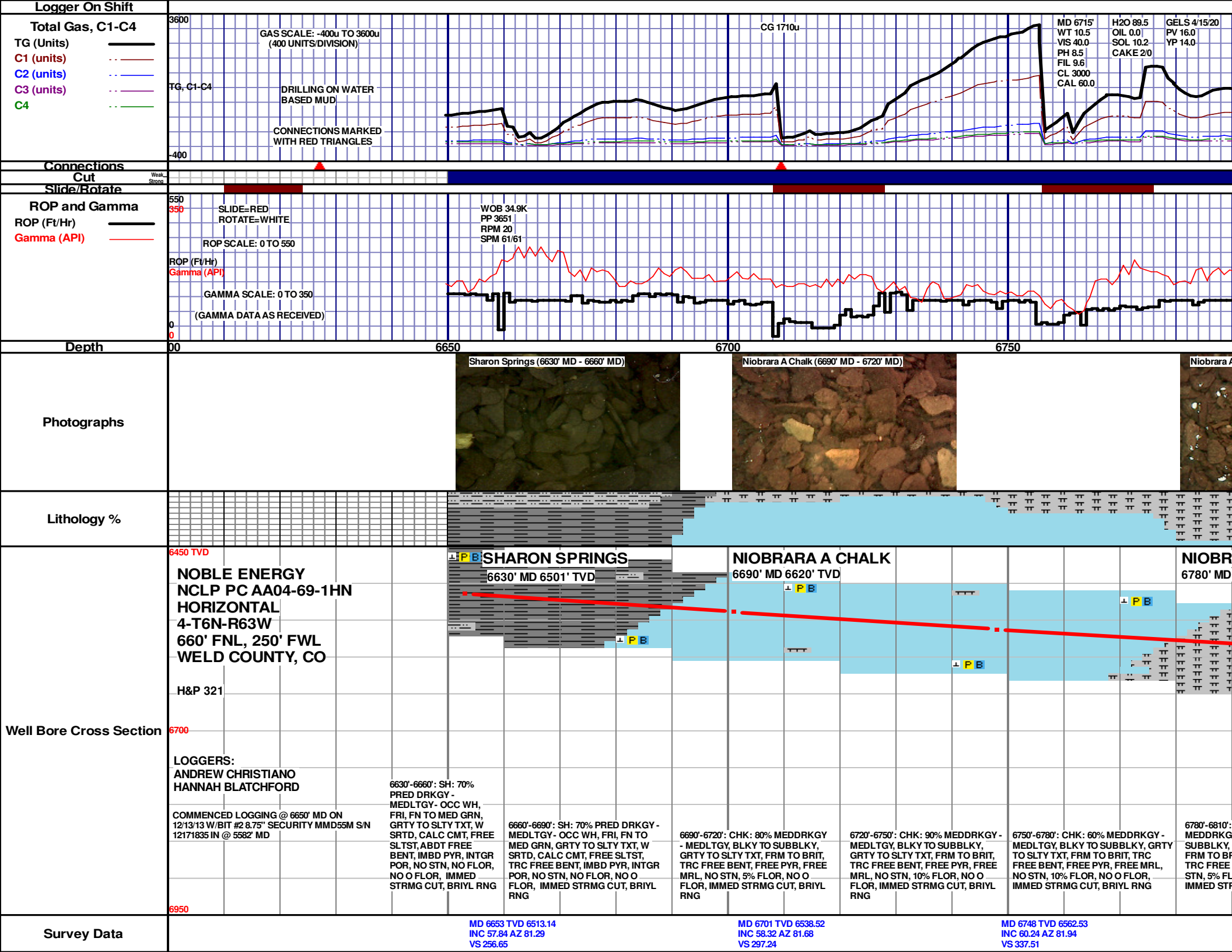
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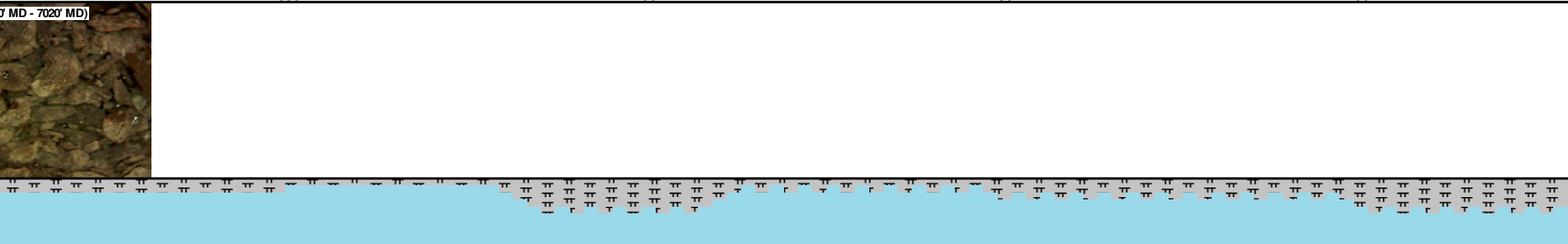
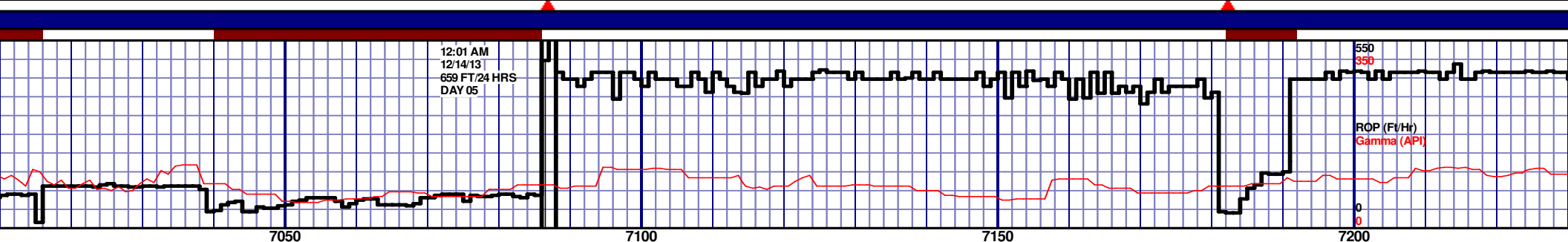
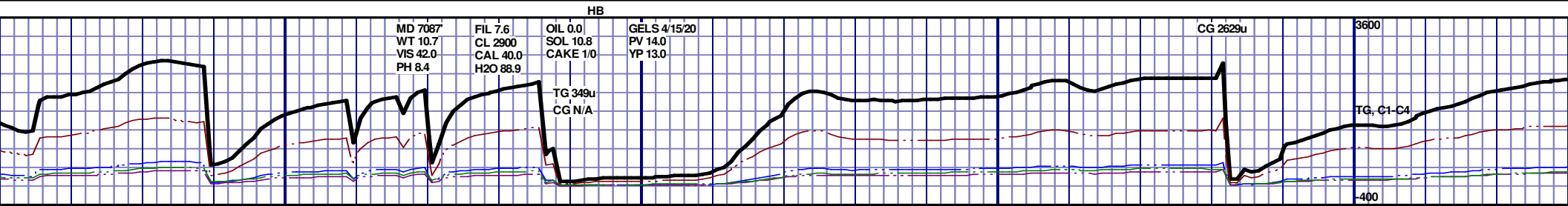
Formation: Niobrara B Chalk

KB Elevation: 4740'

GR Elevation: 4710'

API Number: 05-123-37179-0000





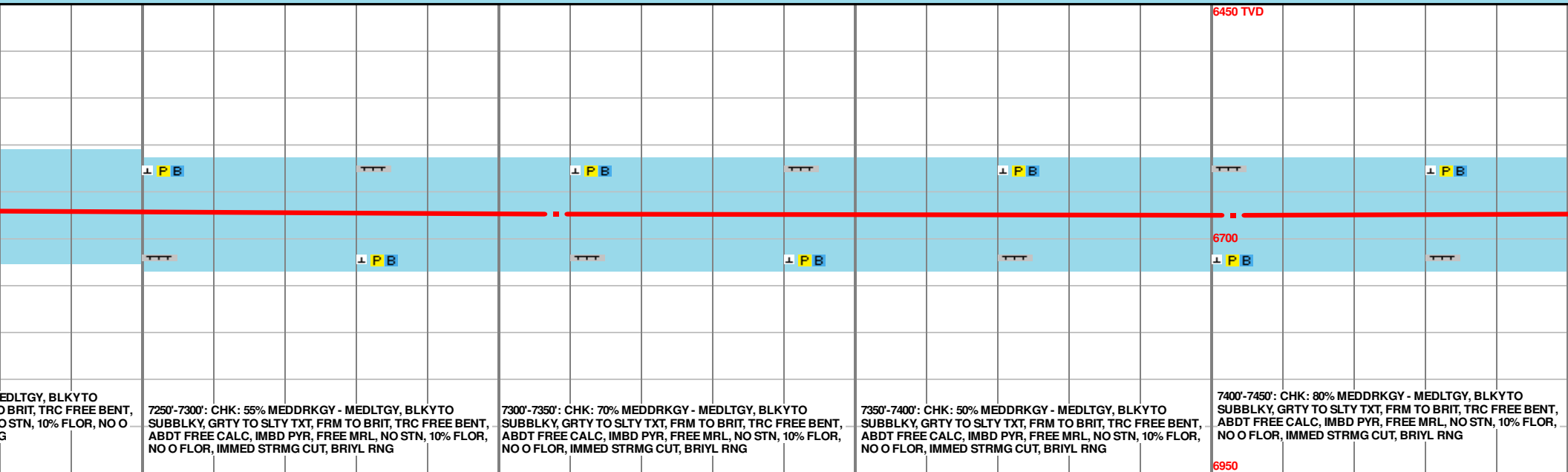
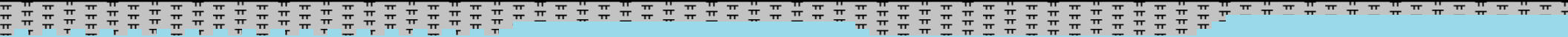
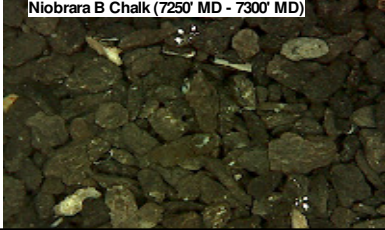
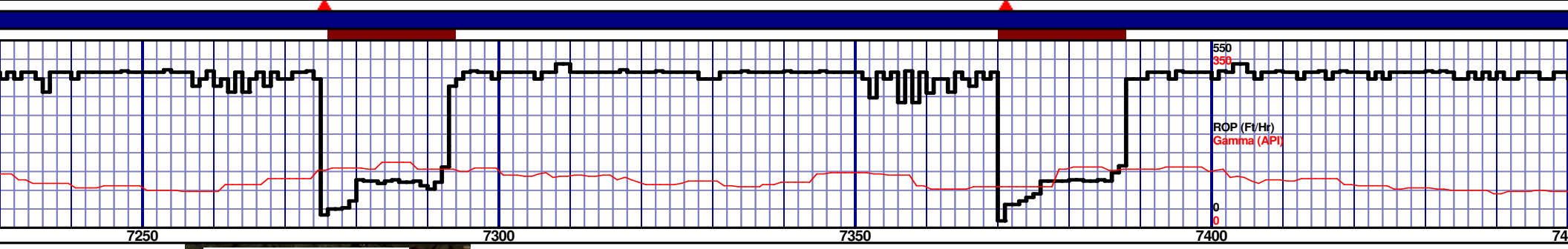
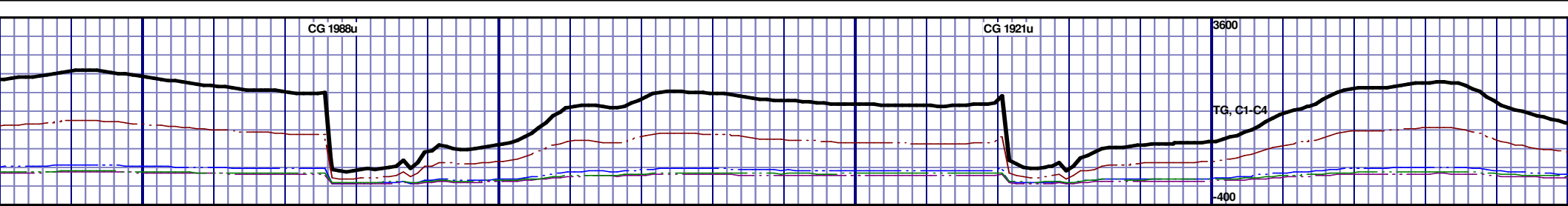
CHALK		TOOH @ 12:45 PM ON 12/14/13 @ 7087' MD FOR INTERMEDIATE CASING OPERATIONS. TIH @ 2:30PM ON 12/14/13. DRILLING AHEAD @ 8:30PM ON 12/14/13 W/ BIT #3 6.125" NOV SKHI 516M-B1 S/N A184606 IN @ 7087' MD.				SWITCH TO 50' SAMPLE INTERVAL		6450 TVD
								6700
								6950

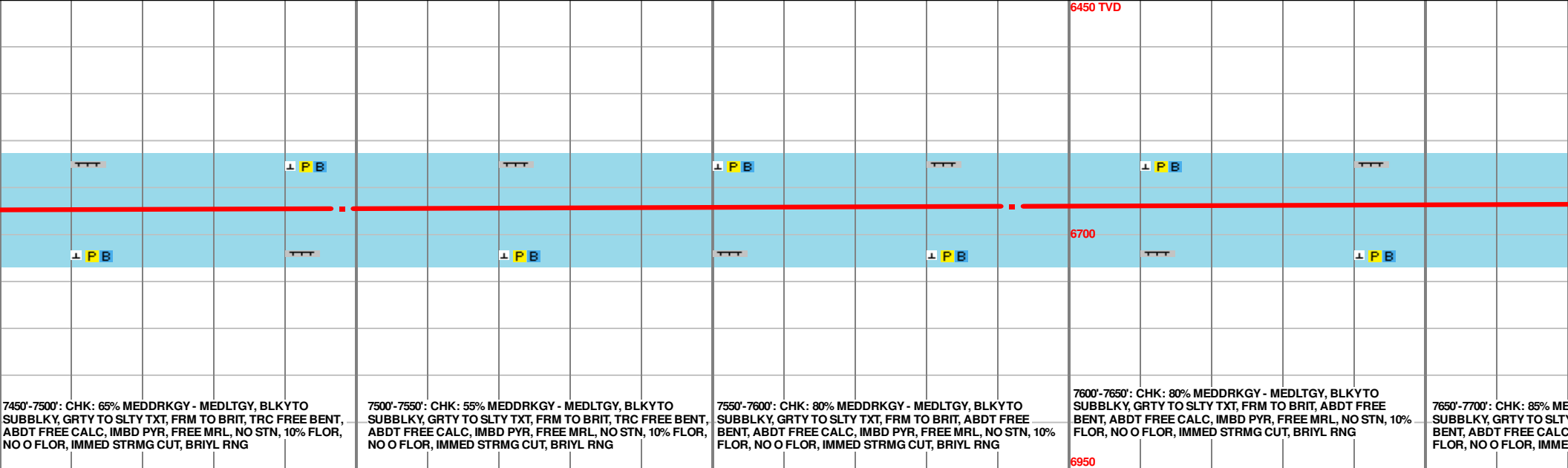
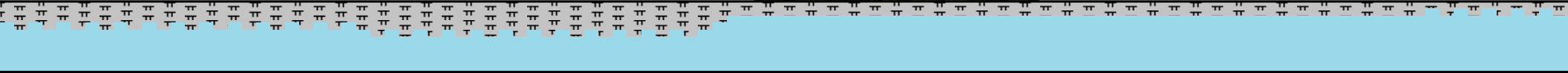
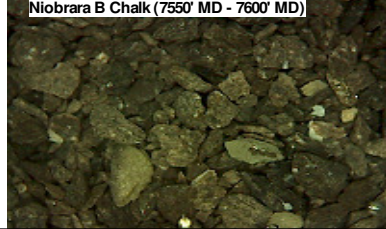
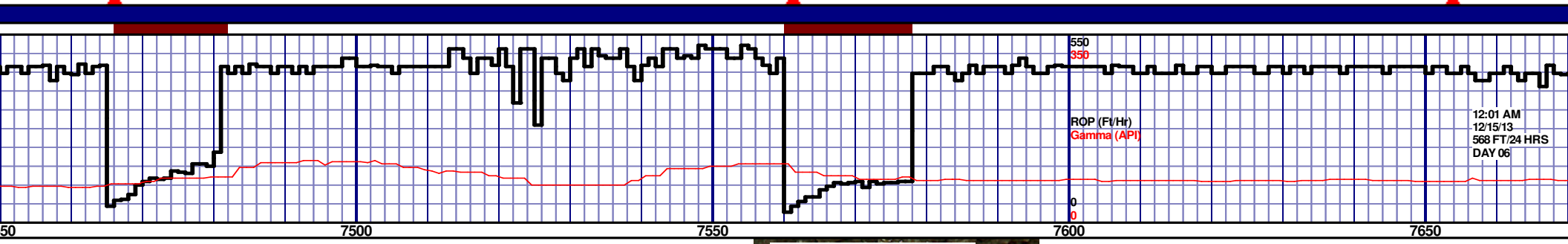
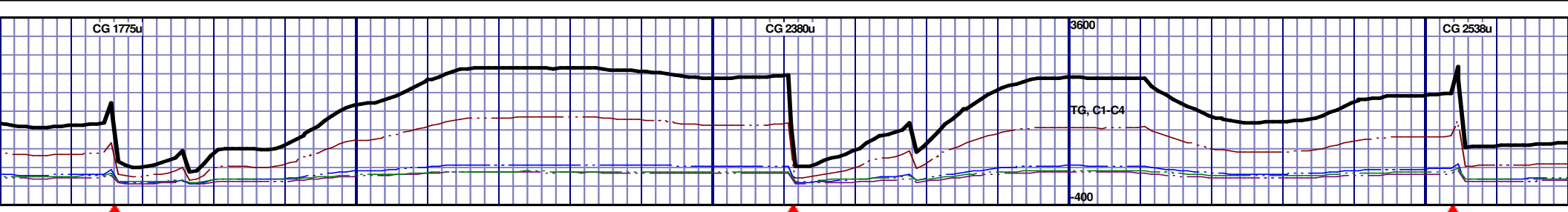
MD 7033 TVD 6655.09 INC 81.29 AZ 88.63 VS 605.05	7020'-7050': CHK: 80% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT, FREE PYR, FREE MRL, NO STN, 10% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	7050'-7080': CHK: 90% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT, FREE PYR, FREE MRL, NO STN, 10% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	7080'-7110': CHK: 55% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT, TRC FREE CALC, IMBD PYR, FREE MRL, NO STN, 10% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	7110'-7150': CHK: 85% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT, TRC FREE CALC, IMBD PYR, FREE MRL, NO STN, 10% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	7150'-7200': CHK: 75% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT, TRC FREE CALC, IMBD PYR, FREE MRL, NO STN, 10% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	7200'-7250': CHK: 55% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT, TRC FREE CALC, IMBD PYR, FREE MRL, NO STN, 10% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG
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MD 7033 TVD 6655.09
INC 81.29 AZ 88.63
VS 605.05

MD 7119 TVD 6664.29
INC 86.43 AZ 87.35
VS 690.5

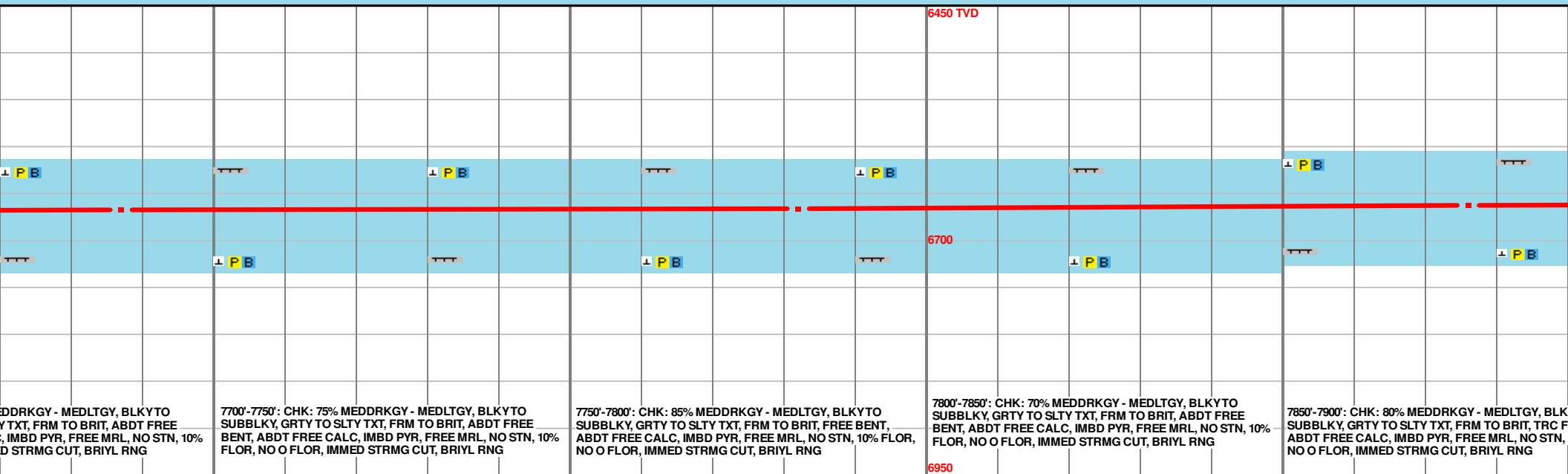
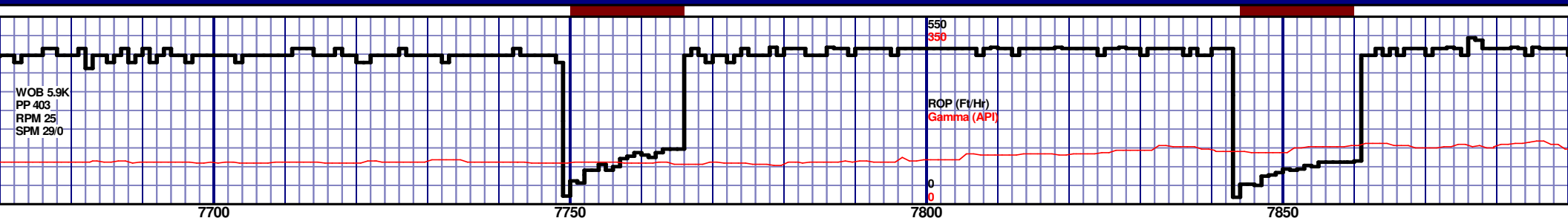
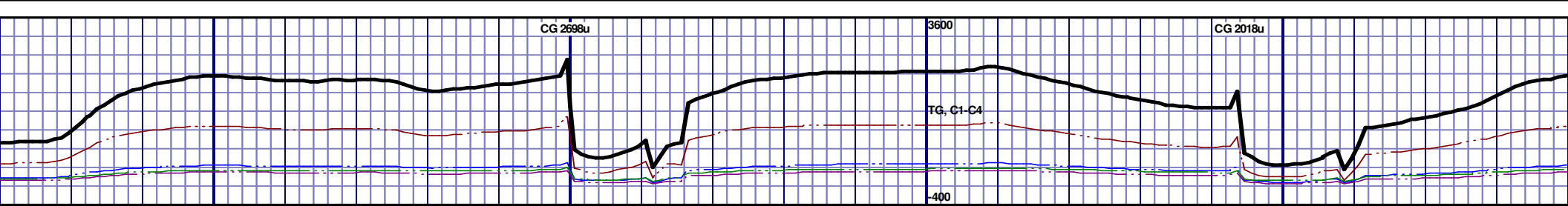
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INC 86.99 AZ 86.81
VS 784.33

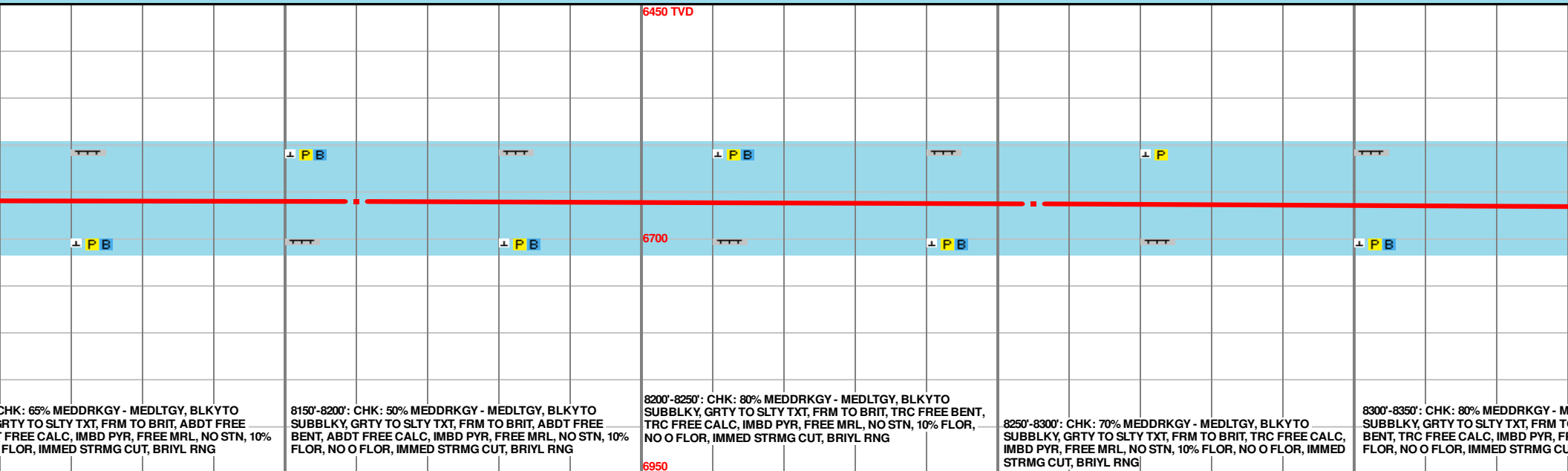
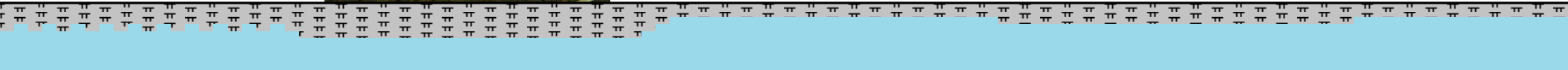
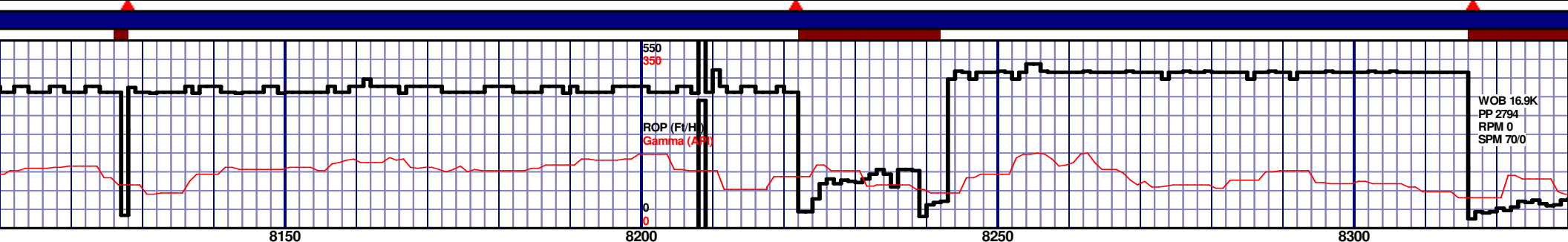
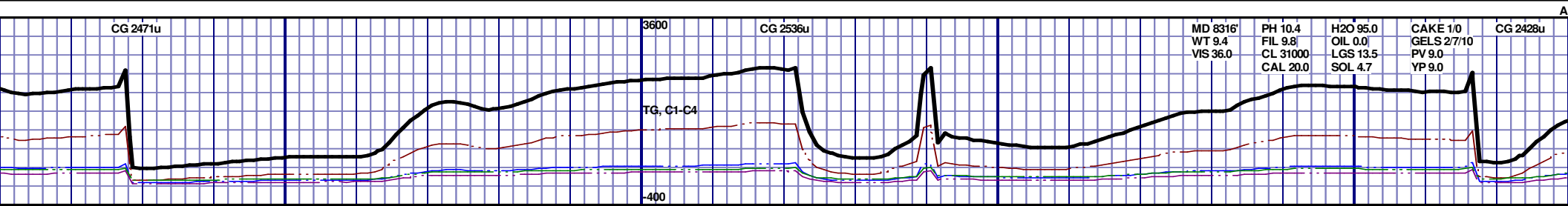




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VS 1069.05

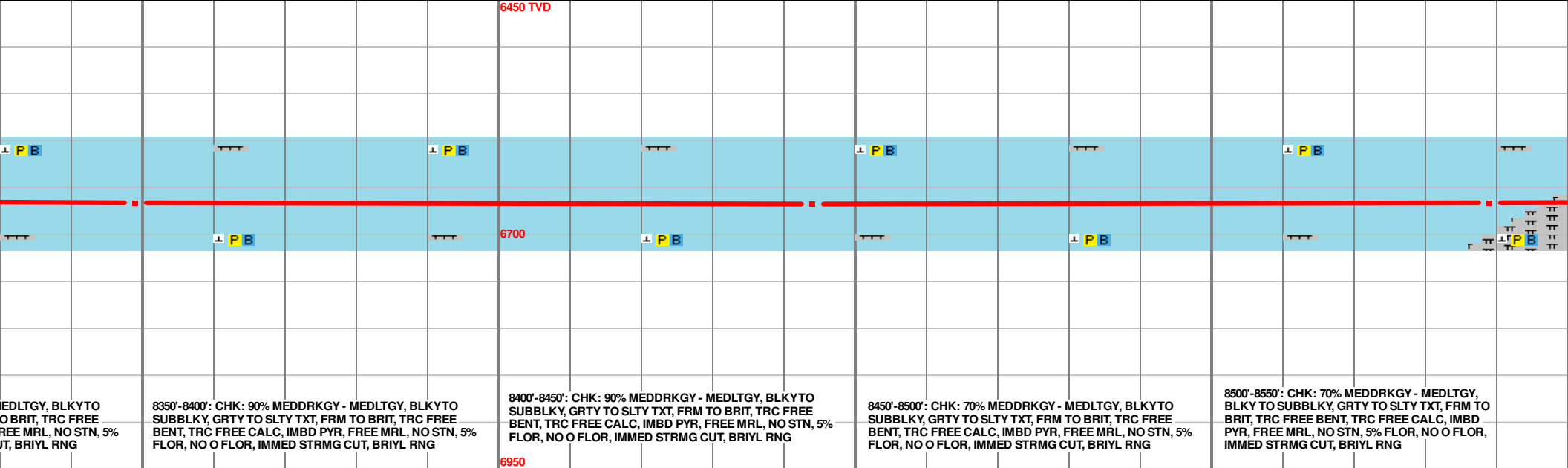
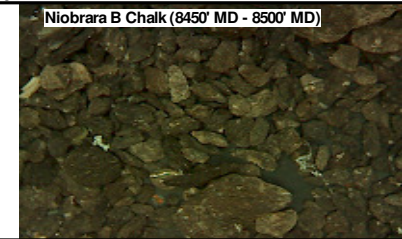
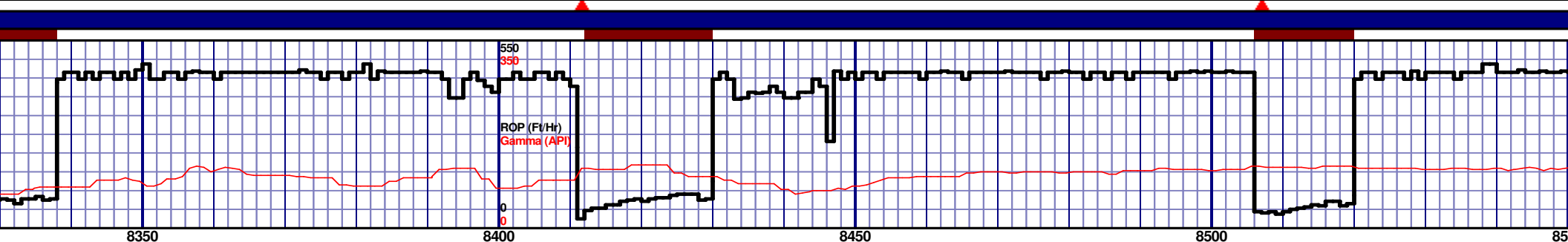
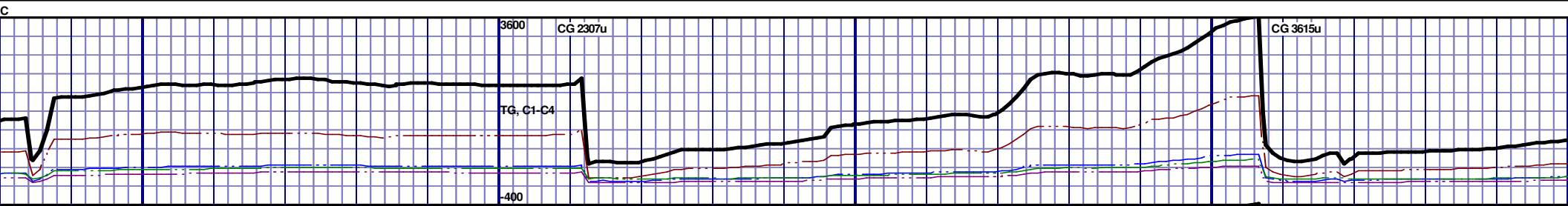
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VS 1162.8

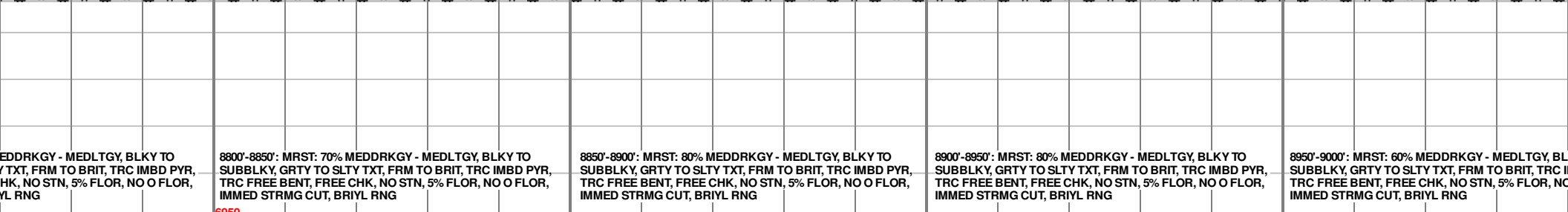
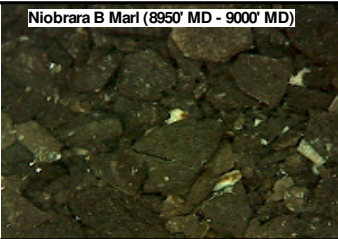
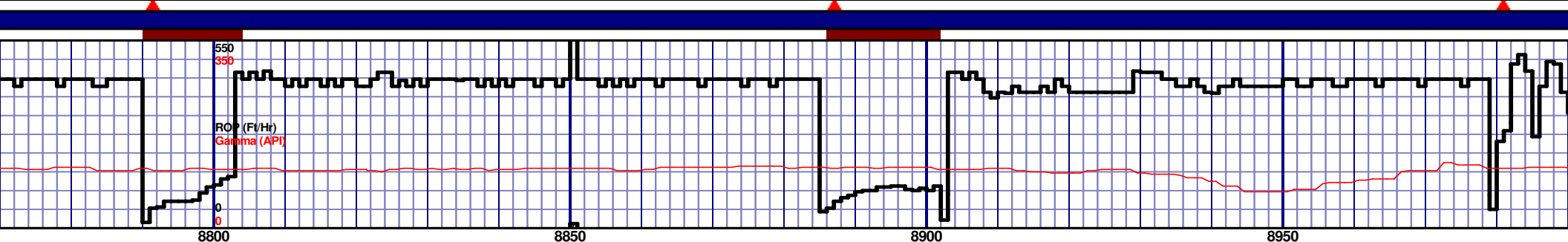




MD 8160 TVD 6659.84
INC 88.37 AZ 91.52
VS 1729.47

MD 8255 TVD 6663.03
INC 87.78 AZ 89.56
VS 1824.17





EDDRKGY - MEDLTGY, BLKY TO
Y TXT, FRM TO BRIT, TRC IMBD PYR,
HK, NO STN, 5% FLOR, NO O FLOR,
YL RNG

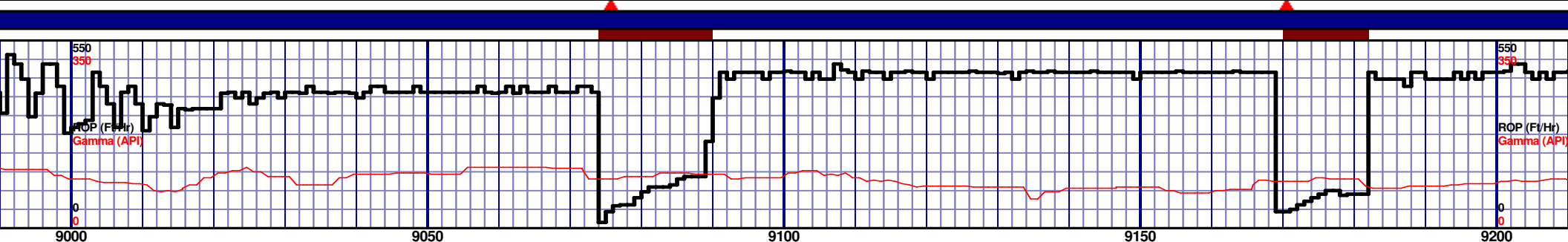
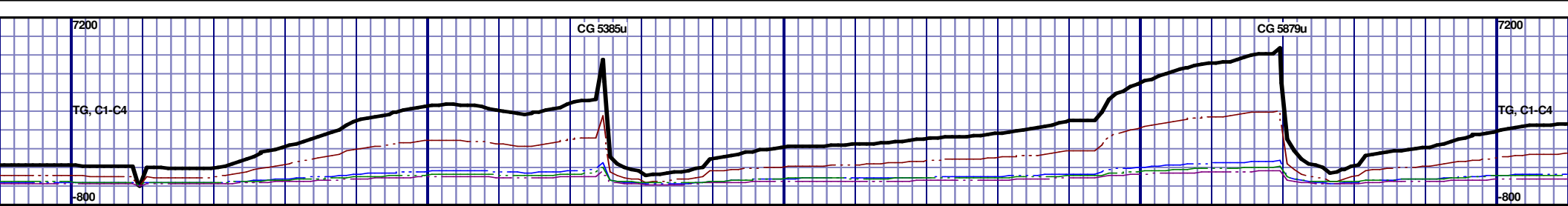
8800'-8850': MRST: 70% MEDDRKGY - MEDLTGY, BLKY TO
SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC IMBD PYR,
TRC FREE BENT, FREE CHK, NO STN, 5% FLOR, NO O FLOR,
IMMED STRMG CUT. BRYL RNG

8850'-8900': MRST: 80% MEDDRKGY - MEDLTGY, BLKY TO
SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC IMBD PYR,
TRC FREE BNT, FREE CHK, NO STN, 5% FLOR, NO O FLOR,
IMMED STRMG CUT. BRYL RNG

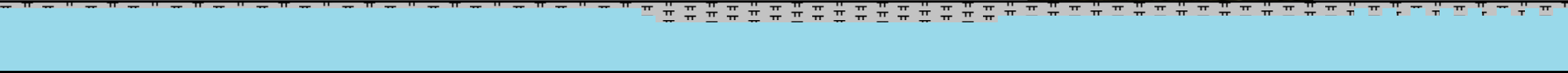
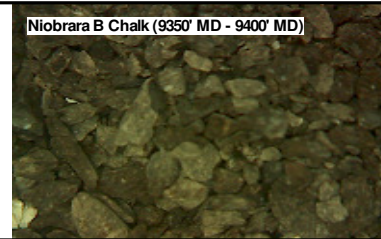
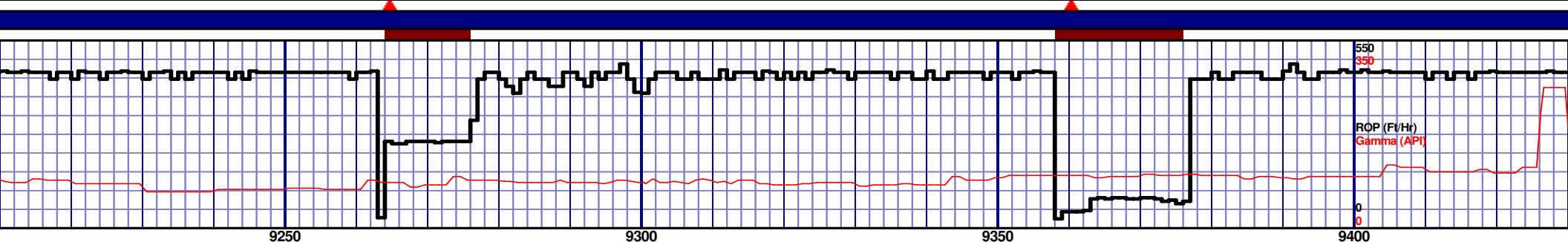
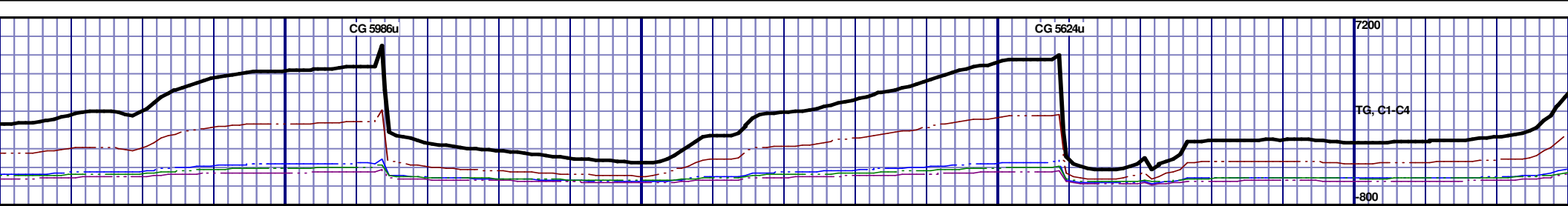
8900'-8950': MRST: 80% MEDDRKGY - MEDLTGY, BLKY TO
SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC IMBD PYR,
TRC FREE BENT, FREE CHK, NO STN, 5% FLOR, NO O FLOR,
IMMED STRMG CUT. BRIYL RNG

3950'-9000': MRST: 60% MEDDRKGY - MEDLTGY, BL
SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC II
TRC FREE BENT, FREE CHK, NO STN, 5% FLOR, NO
IMMED STRMG CUT. BRIYL RNG

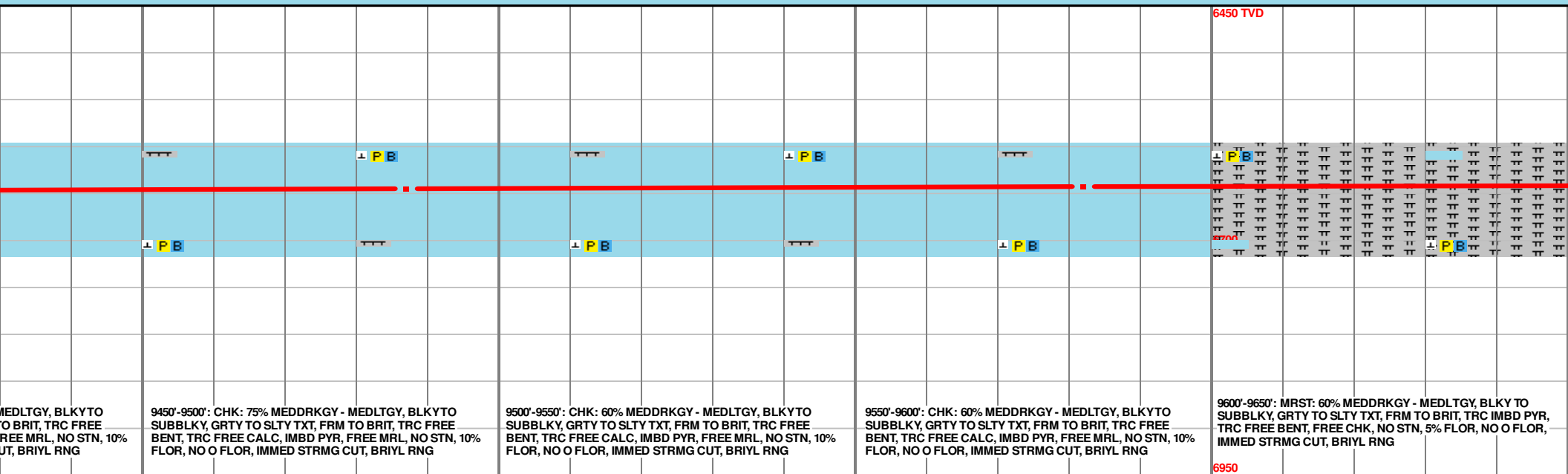
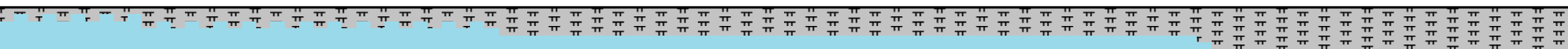
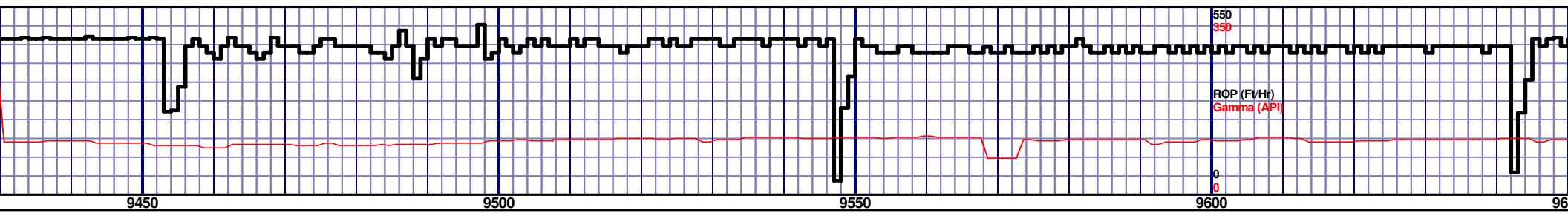
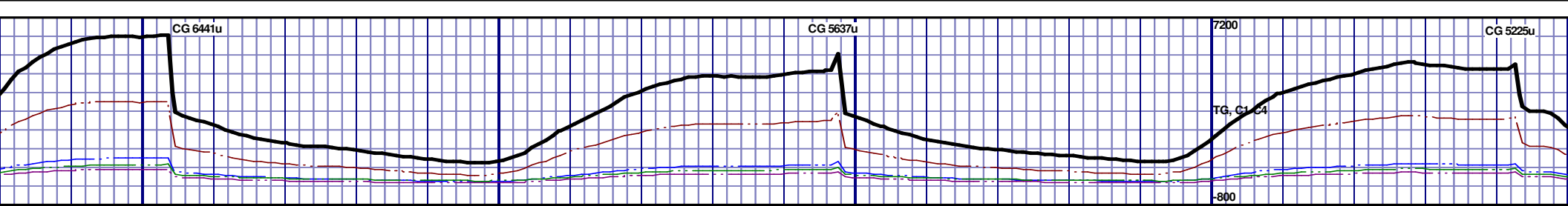
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INC 92.25 AZ 89.66
VS 2486.22



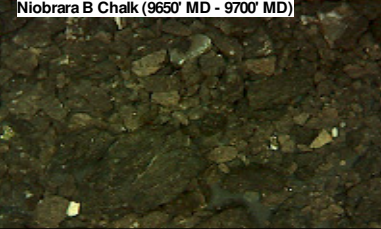
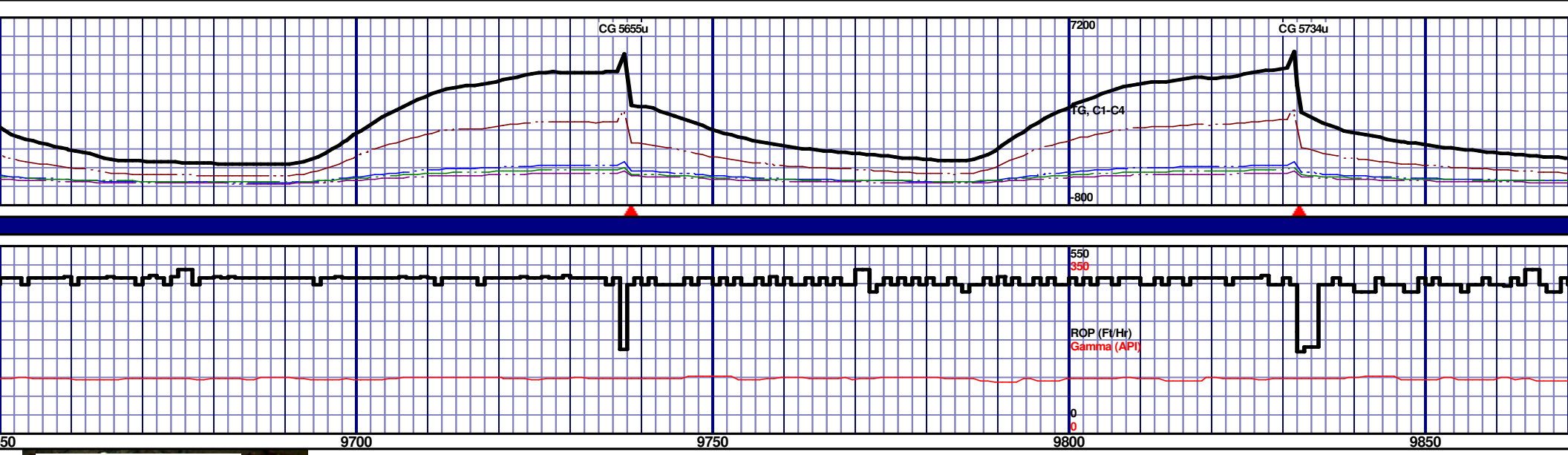
6450 TVD NIOBRARA B CHALK 9000' MD 6655' TVD										6450 TVD				
1 P B					1 P B					1 P B				
1 P B					1 P B					1 P B				
9000'-9050': CHK: 60% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT, TRC FREE CALC, IMBD PYR, FREE MRL, NO STN, 10% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG					9050'-9100': CHK: 70% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT, TRC FREE CALC, IMBD PYR, FREE MRL, NO STN, 10% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG					9100'-9150': CHK: 85% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT, TRC FREE CALC, IMBD PYR, FREE MRL, NO STN, 10% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG				
6950										6700				
MD 9013 TVD 6653.62 INC 92.28 AZ 89.03 VS 2581.02					MD 9108 TVD 6650.23 INC 91.82 AZ 89.96 VS 2675.82					MD 9203 TVD 6650.43 INC 90.43 AZ 89.96 VS 2770.12				



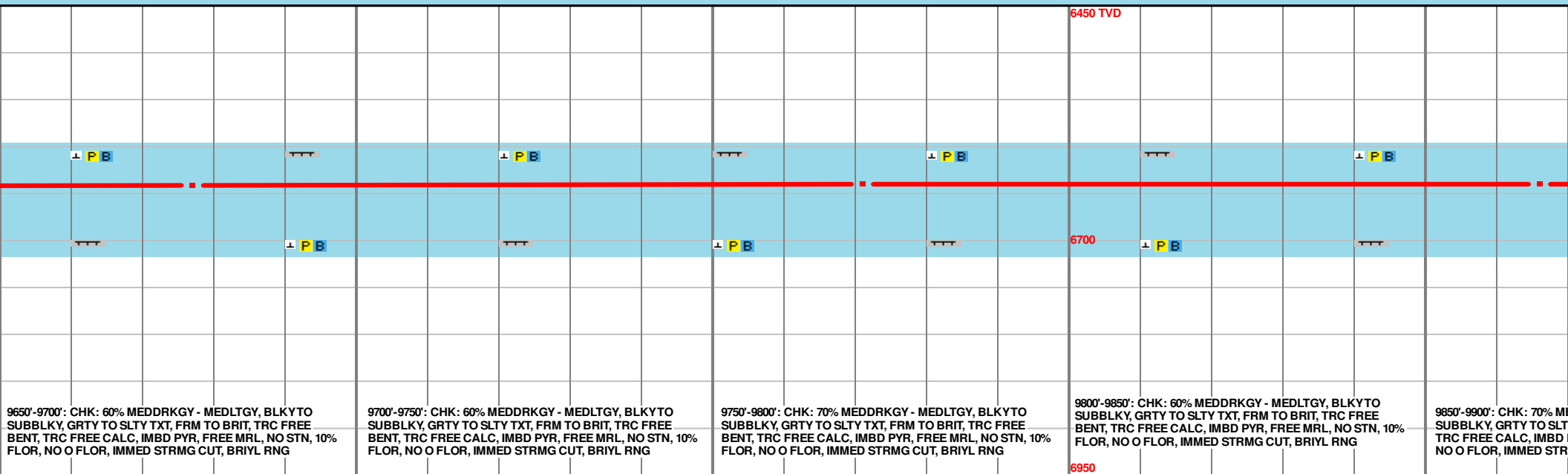
6450 TVD					6700					6950				
CHK: 90% MEDDRKGY - MEDLTGY, BLKYTO GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE FREE CALC, IMBD PYR, FREE MRL, NO STN, 10% O FLOR, IMMED STRMG CUT, BRIYL RNG					9250'-9300': CHK: 90% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT, TRC FREE CALC, IMBD PYR, FREE MRL, NO STN, 10% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG					9300'-9350': CHK: 70% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT, TRC FREE CALC, IMBD PYR, FREE MRL, NO STN, 10% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG				
9350'-9400': CHK: 80% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT, TRC FREE CALC, IMBD PYR, FREE MRL, NO STN, 10% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG					9400'-9450': CHK: 85% MEDDRKGY - M SUBBLKY, GRTY TO SLTY TXT, FRM TO BENT, TRC FREE CALC, IMBD PYR, F FLOR, NO O FLOR, IMMED STRMG CUT									



MEDLTGY, BLKYTO O BRIT, TRC FREE FREE MRL, NO STN, 10% UT, BRIYL RNG	9450'-9500': CHK: 75% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GR TY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT, TRC FREE CALC, IMBD PYR, FREE MRL, NO STN, 10% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	9500'-9550': CHK: 60% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GR TY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT, TRC FREE CALC, IMBD PYR, FREE MRL, NO STN, 10% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	9550'-9600': CHK: 60% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GR TY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT, TRC FREE CALC, IMBD PYR, FREE MRL, NO STN, 10% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	9600'-9650': MRST: 60% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GR TY TO SLTY TXT, FRM TO BRIT, TRC IMBD PYR, TRC FREE BENT, FREE CHK, NO STN, 5% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG
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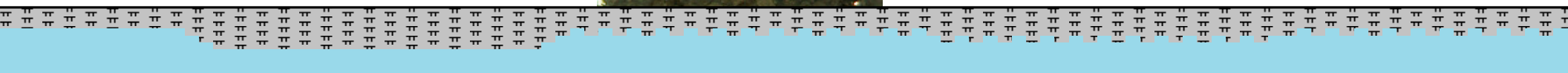
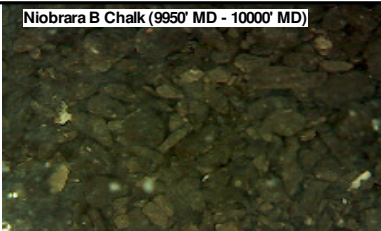
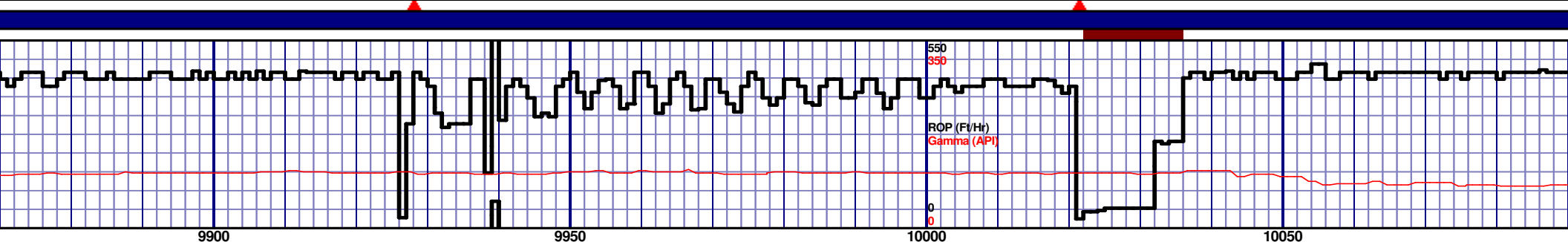
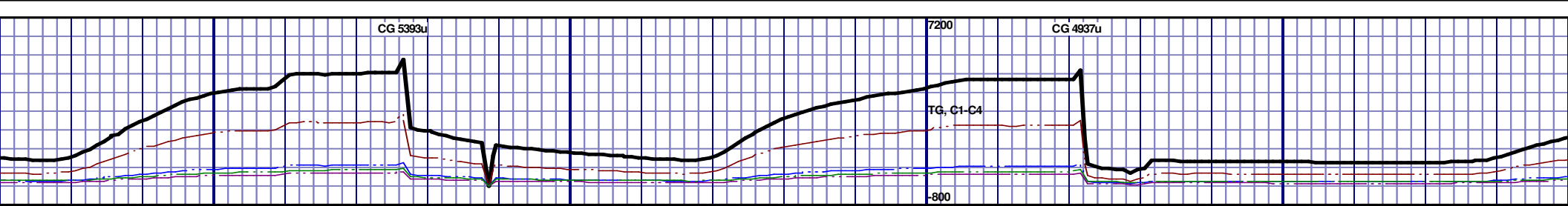
9650'-9700': CHK: 60% MEDDRKGY - MEDLTGY, BLKYTO
SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE
BENT, TRC FREE CALC, IMBD PYR, FREE MRL, NO STN, 10%
FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG

9700'-9750': CHK: 60% MEDDRKGY - MEDLTGY, BLKYTO
SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE
BENT, TRC FREE CALC, IMBD PYR, FREE MRL, NO STN, 10%
FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG

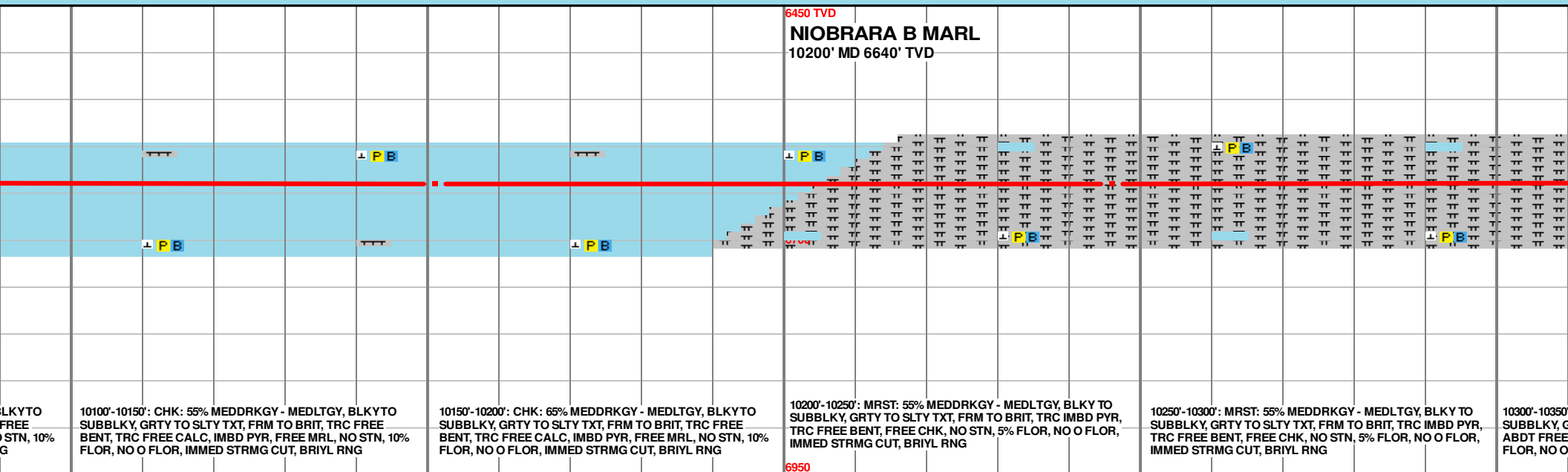
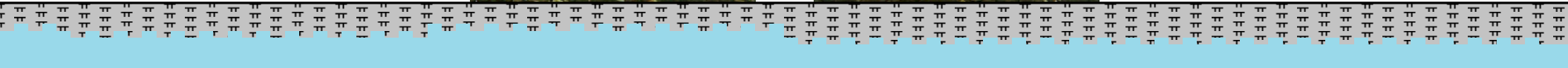
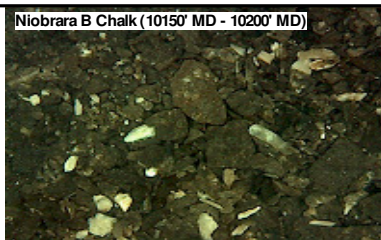
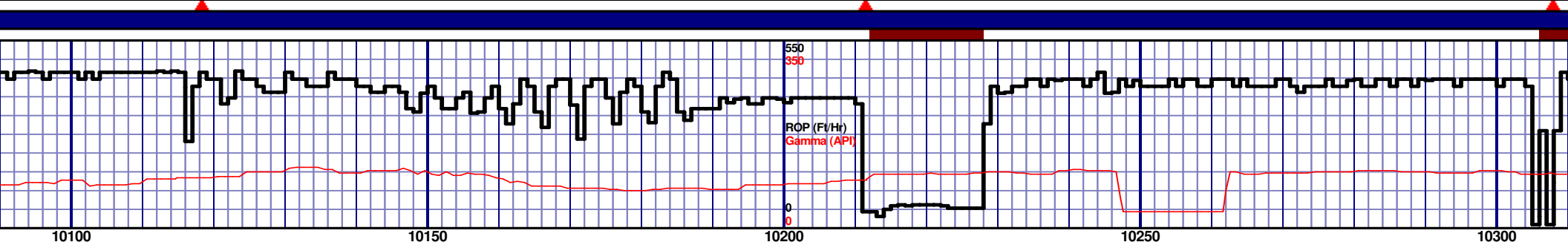
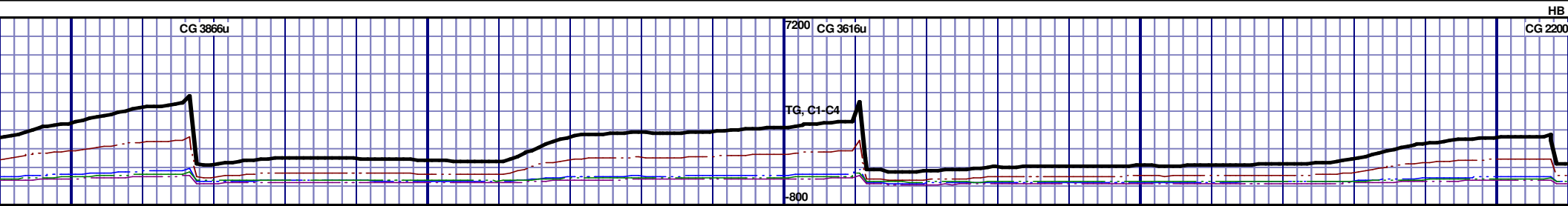
9750'-9800': CHK: 70% MEDDRKGY - MEDLTGY, BLKYTO
SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE
BENT, TRC FREE CALC, IMBD PYR, FREE MRL, NO STN, 10%
FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG

9800'-9850': CHK: 60% MEDDRKGY - MEDLTGY, BLKYTO
SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE
BENT, TRC FREE CALC, IMBD PYR, FREE MRL, NO STN, 10%
FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG

9850'-9900': CHK: 70% MEDDRKGY - MEDLTGY, BLKYTO
SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE
BENT, TRC FREE CALC, IMBD PYR, FREE MRL, NO STN, 10%
FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG

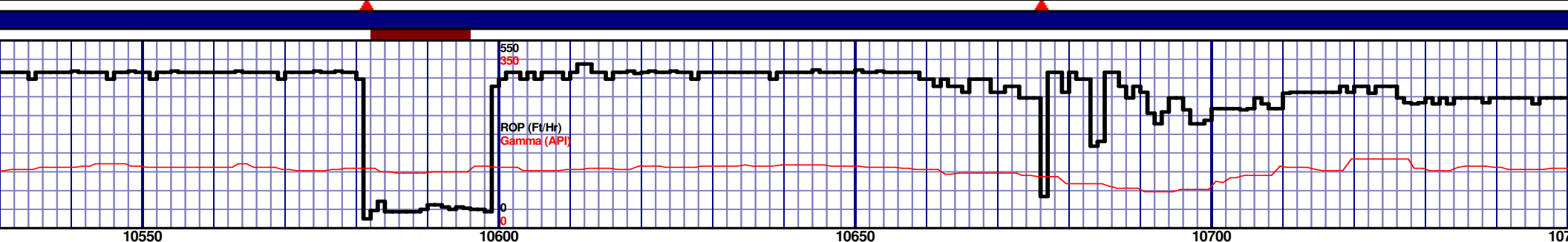
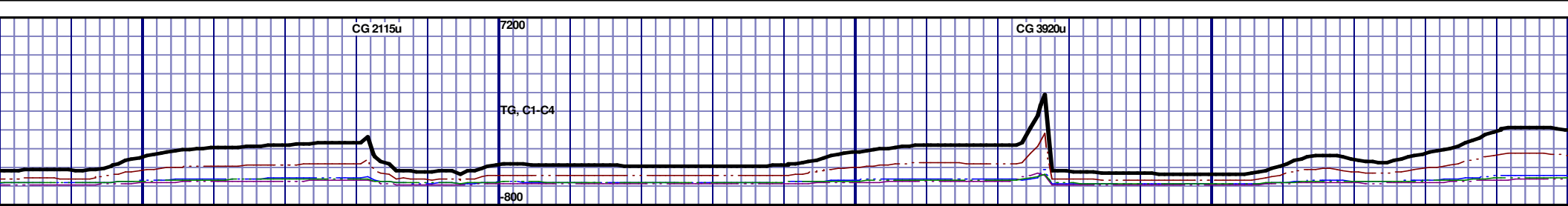


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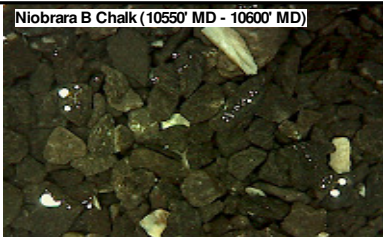


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INC 88.74 AZ 89.08
VS 3716.9

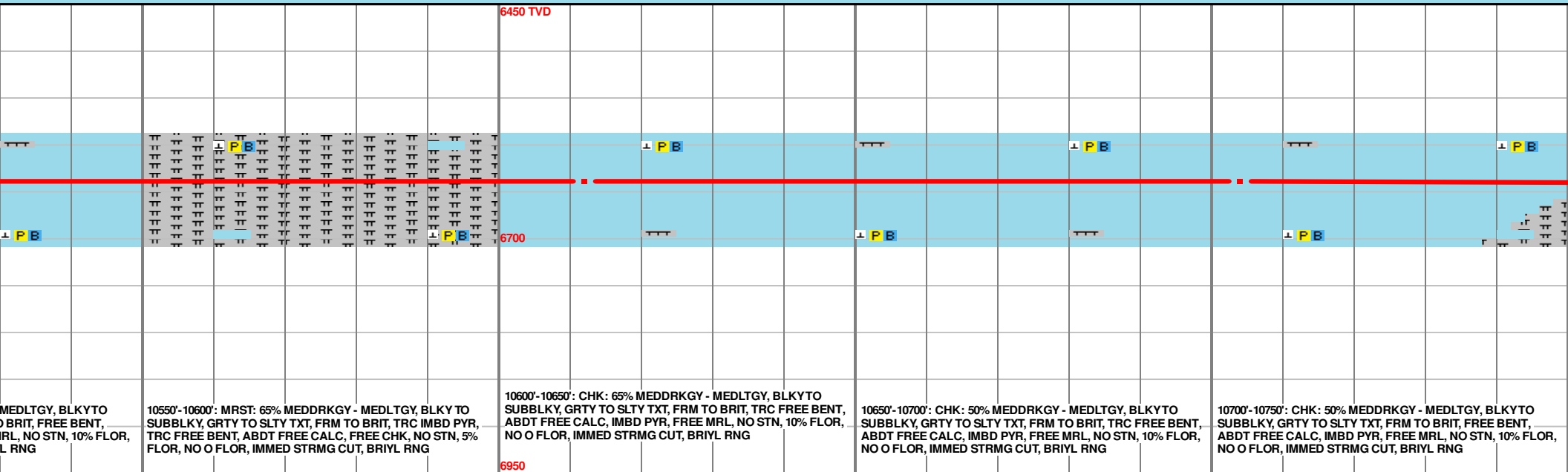
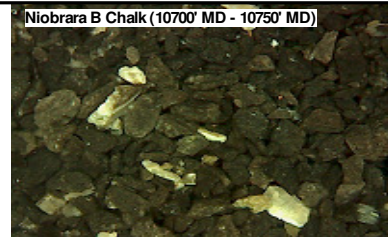
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INC 90.74 AZ 88.33
VS 3811.82

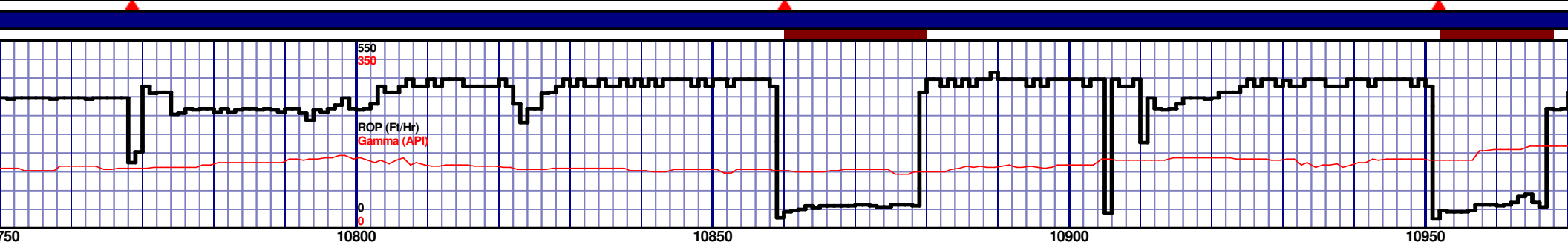


Niobrara B Chalk (10550' MD - 10600' MD)

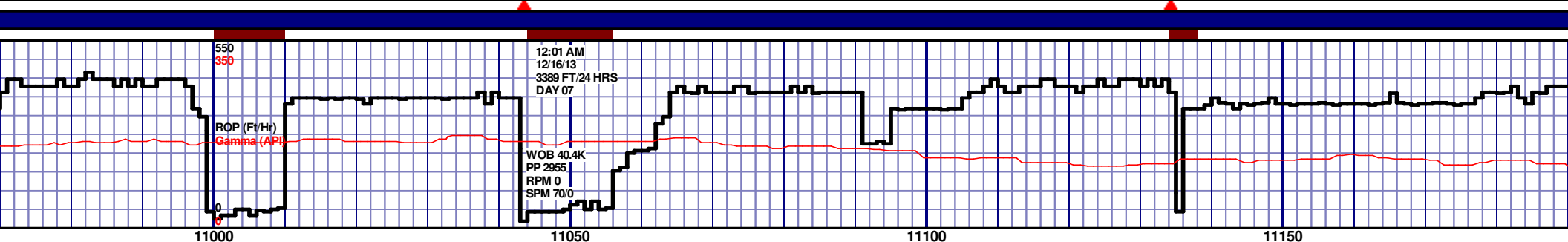


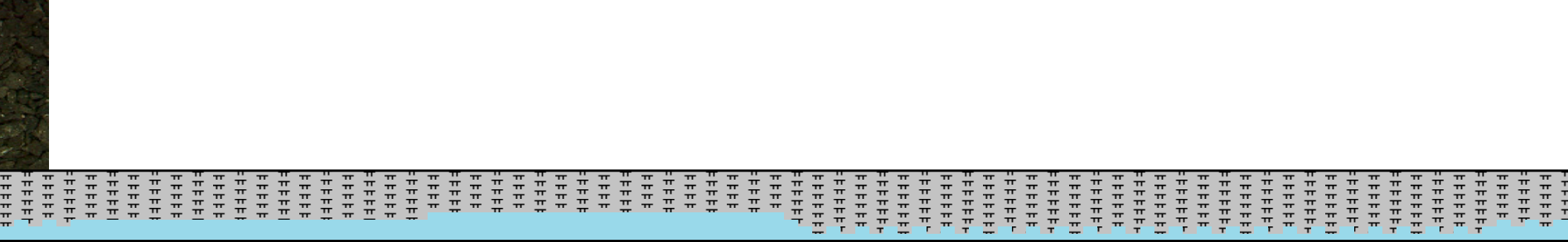
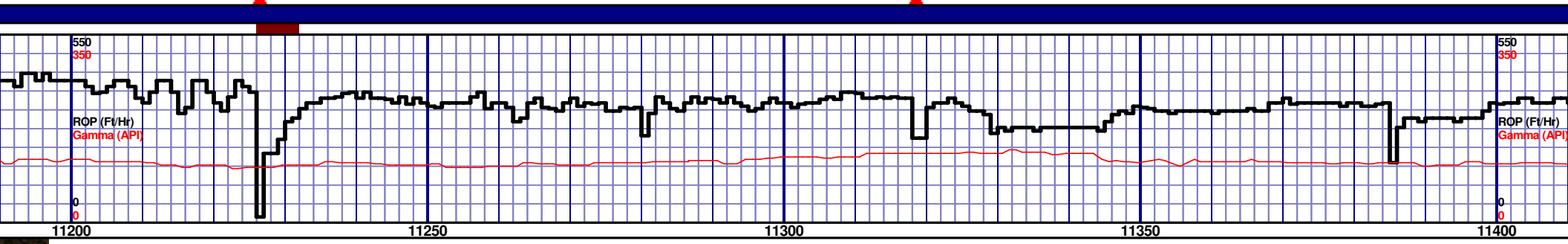
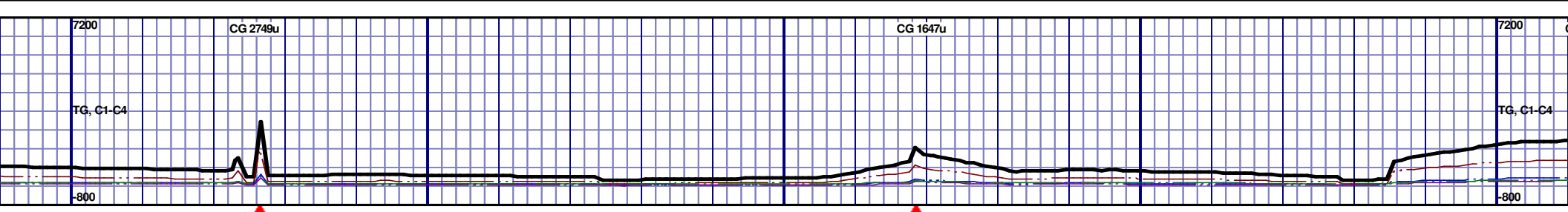
Niobrara B Chalk (10700' MD - 10750' MD)





MD 10796 TVD 6640.64	MD 10888 TVD 6642.72
INC 88.86 AZ 92.62	INC 88.55 AZ 86.63
VS 4360.54	VS 4452.33

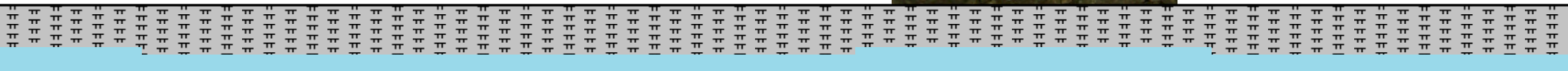
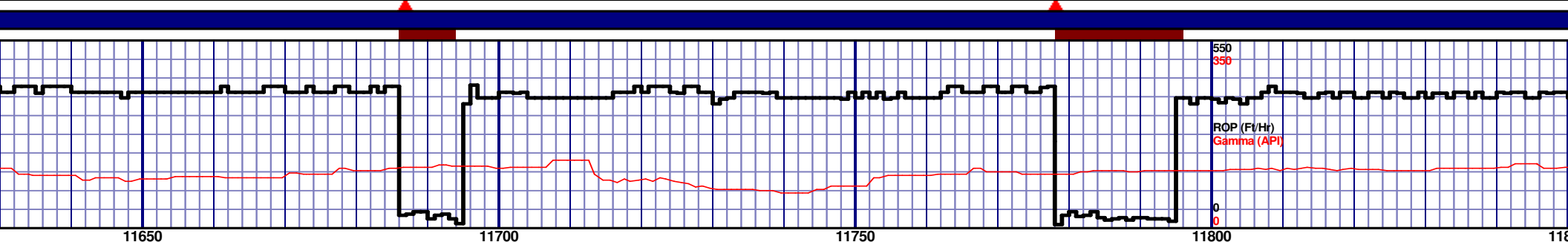
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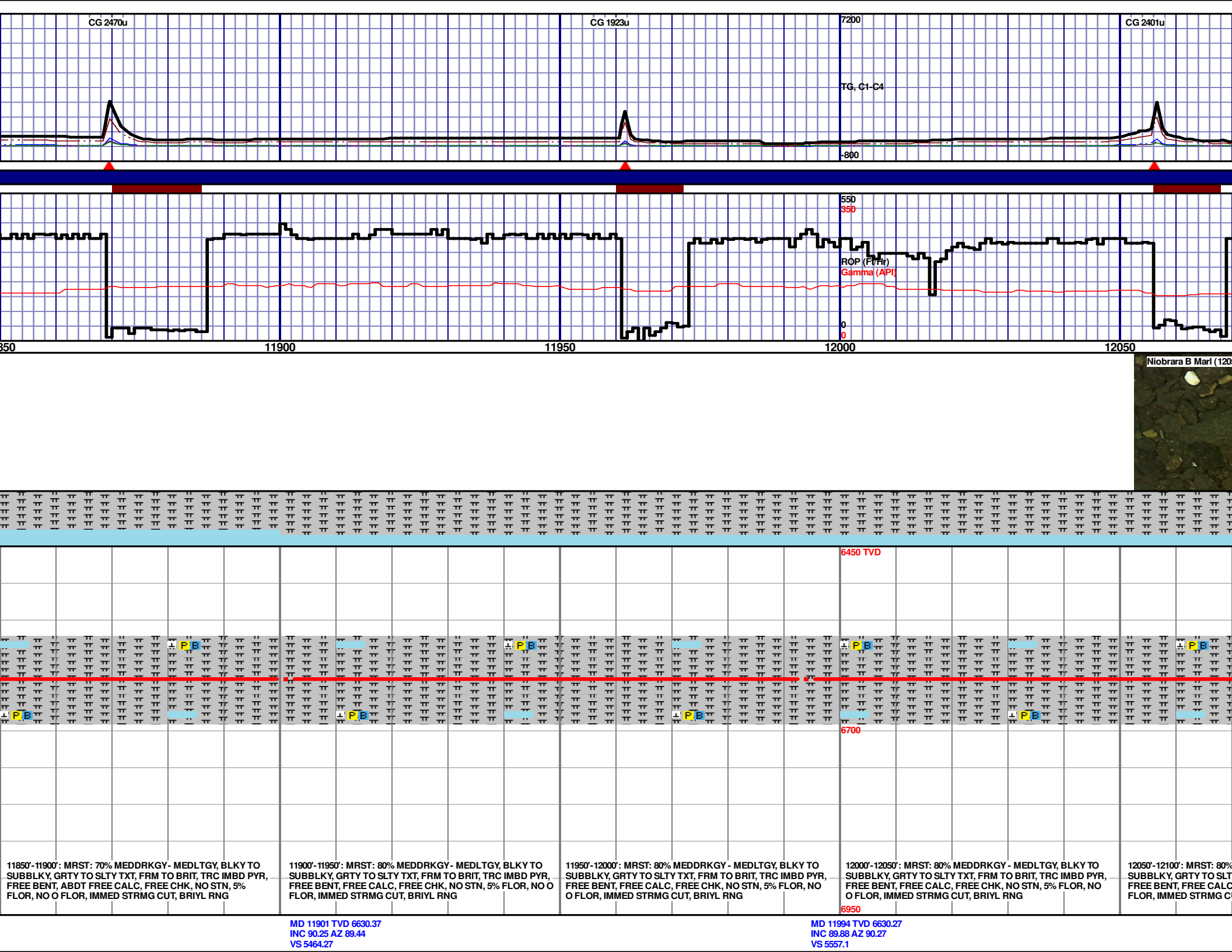


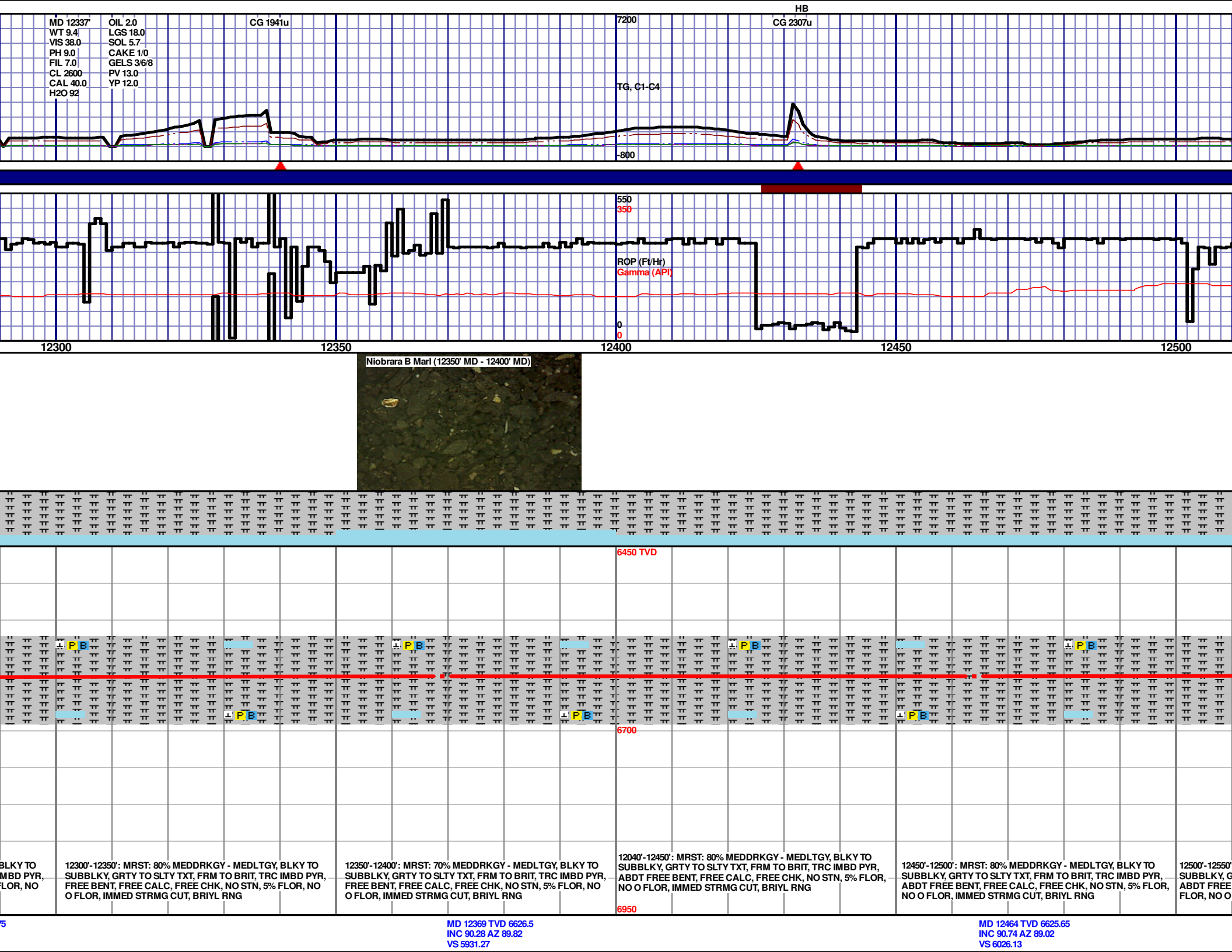
6450 TVD					6450 TVD				
11200'-11250': MRST: 70% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC IMBD PYR, ABDT FREE BENT, TRC FREE CALC, FREE CHK, NO STN, 5% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG					11250'-11300': MRST: 60% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC IMBD PYR, ABDT FREE BENT, TRC FREE CALC, FREE CHK, NO STN, 5% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG				
11300'-11350': MRST: 85% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC IMBD PYR, ABDT FREE BENT, TRC FREE CALC, FREE CHK, NO STN, 5% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG					11350'-11400': MRST: 85% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC IMBD PYR, ABDT FREE BENT, TRC FREE CALC, FREE CHK, NO STN, 5% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG				
11400'-11450': MRST: 85% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC IMBD PYR, ABDT FREE BENT, TRC FREE CALC, FREE CHK, NO STN, 5% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG					11450'-11500': MRST: 85% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC IMBD PYR, ABDT FREE BENT, TRC FREE CALC, FREE CHK, NO STN, 5% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG				

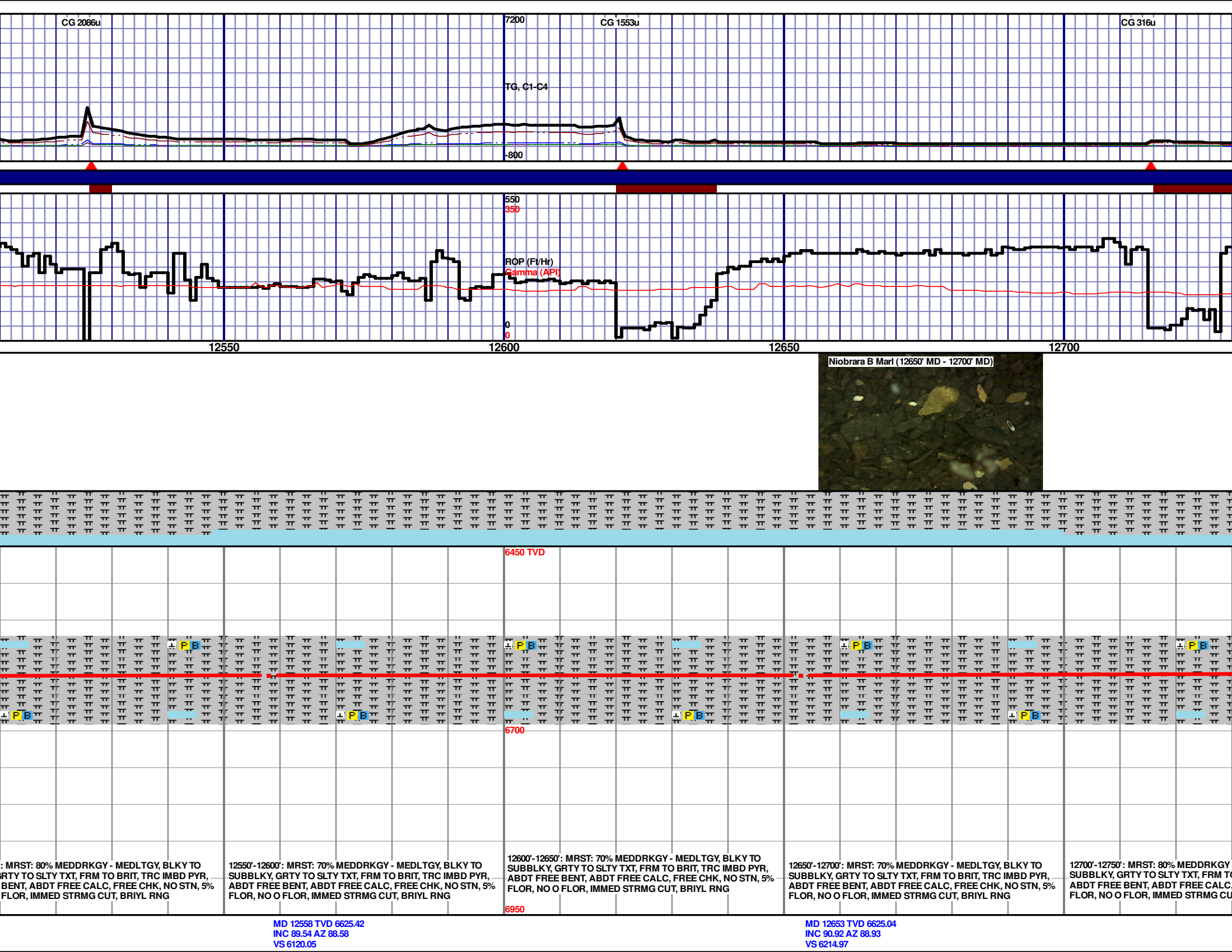
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INC 92.09 AZ 86.88
VS 4819.13

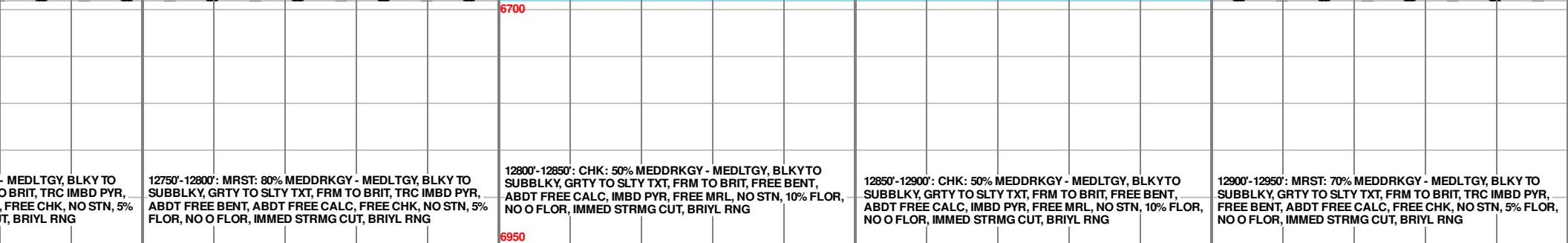
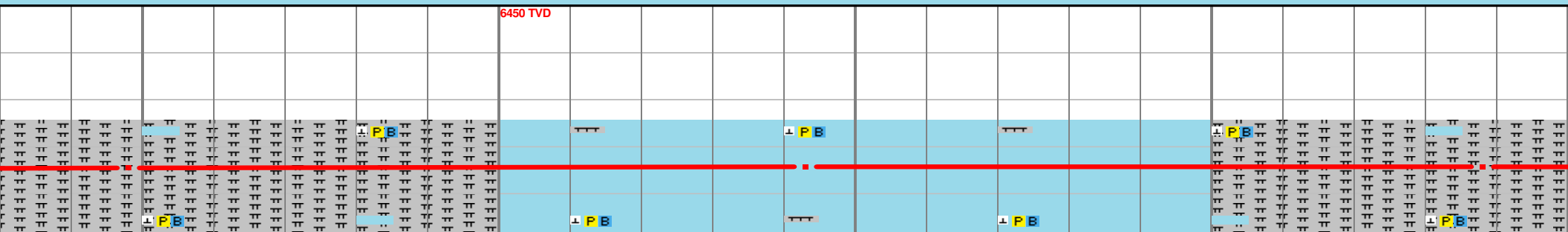
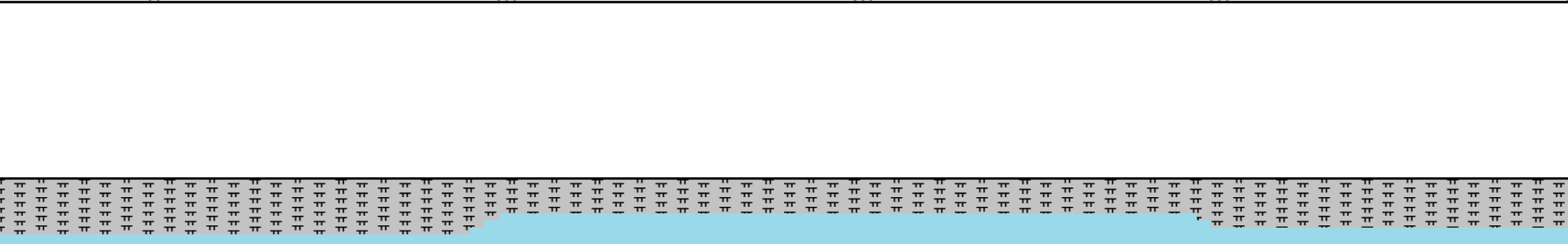
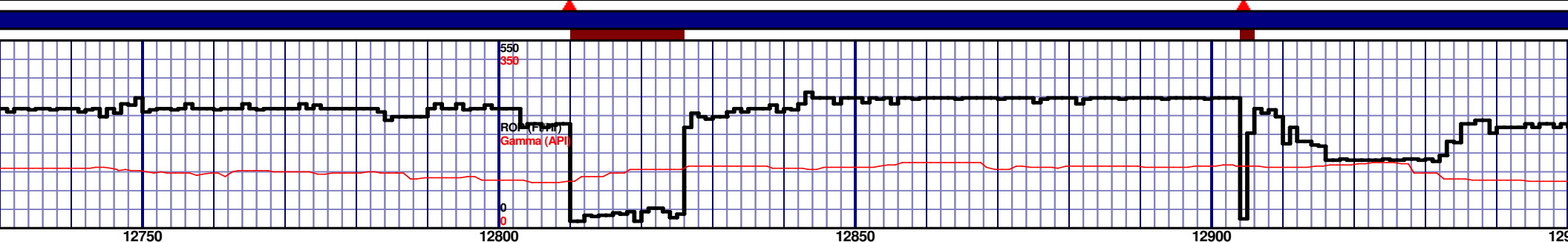
MD 11349 TVD 6635.59
INC 91.98 AZ 86.61
VS 4913.06

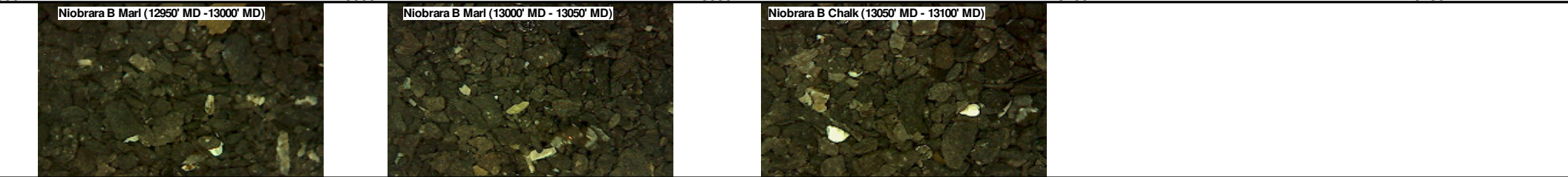
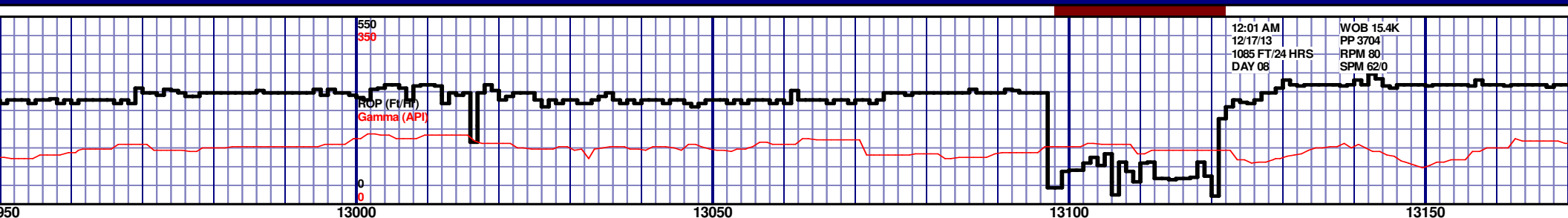
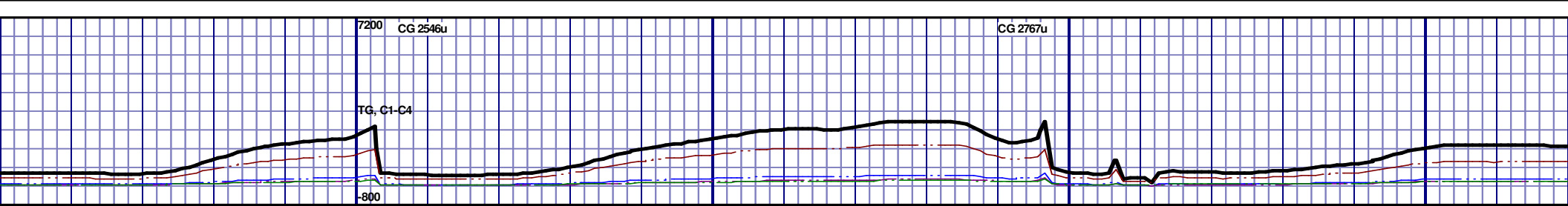
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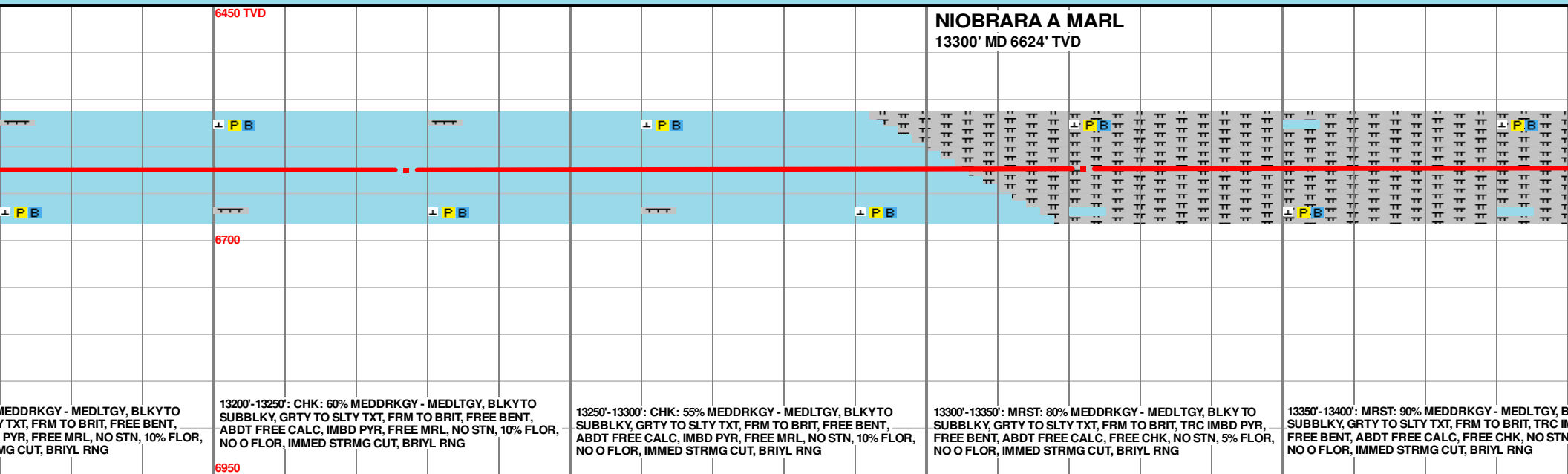
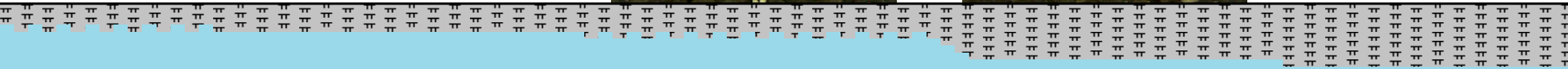
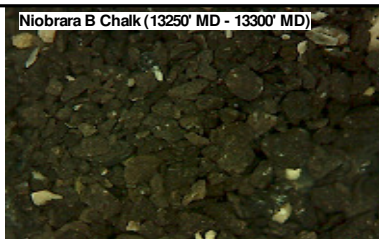
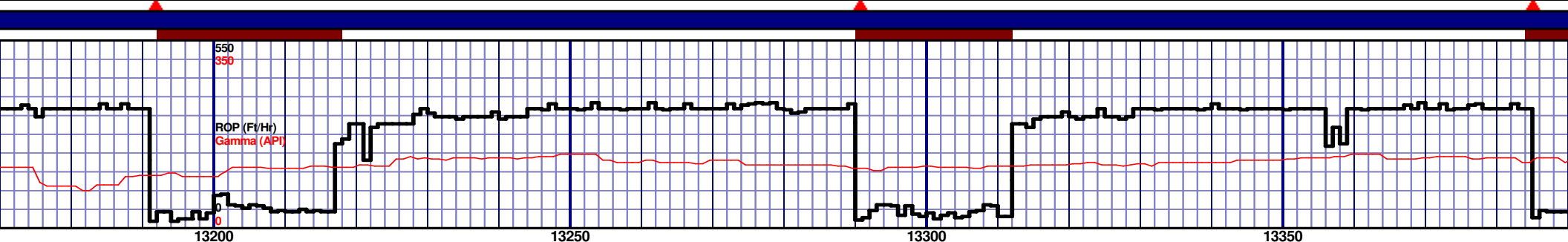
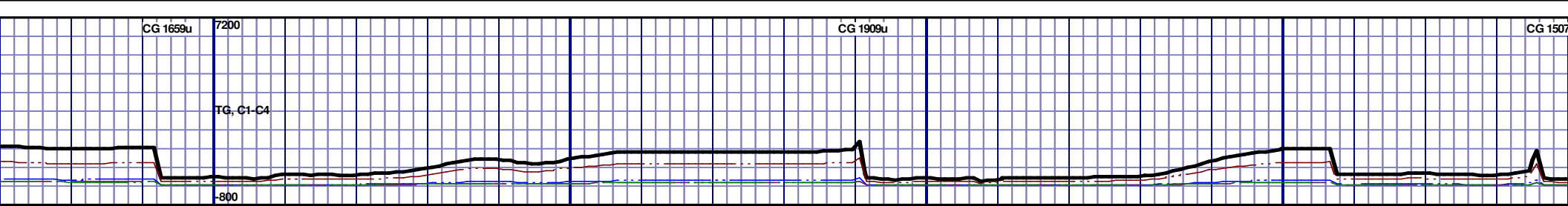


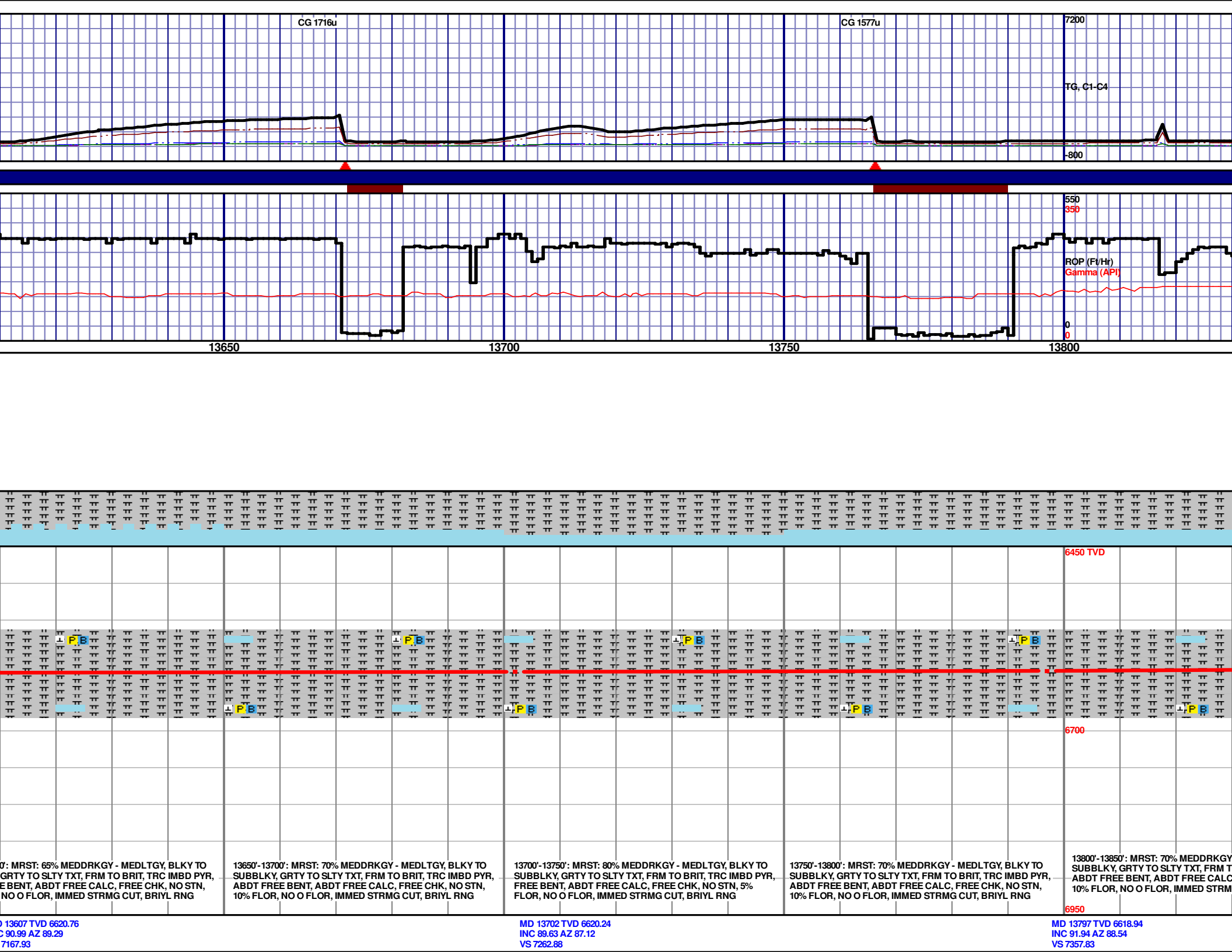


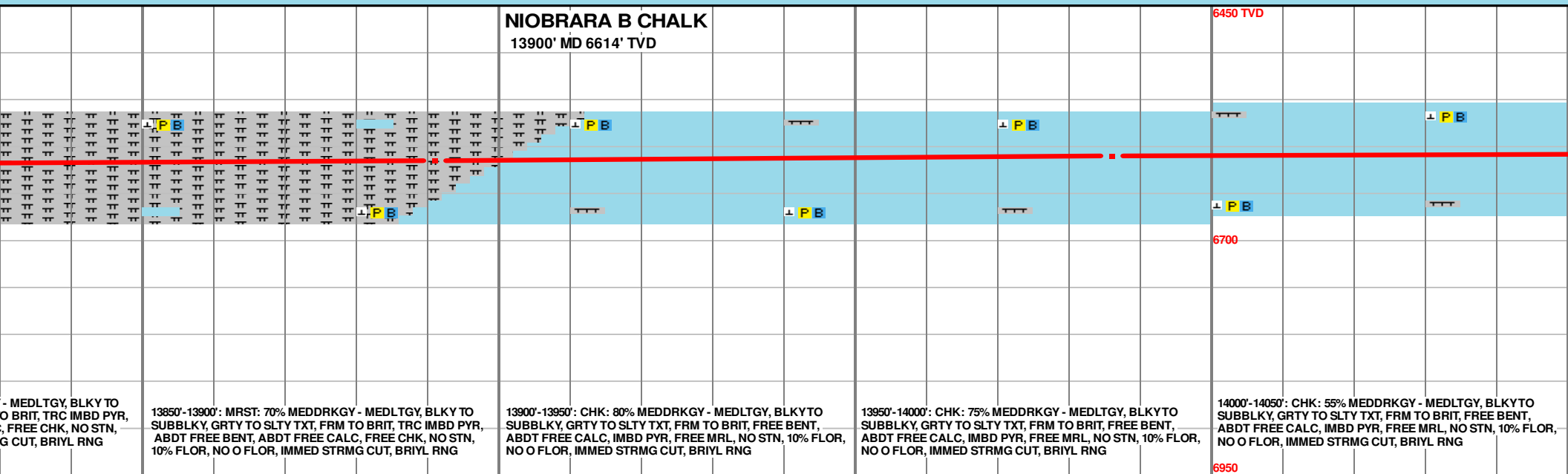
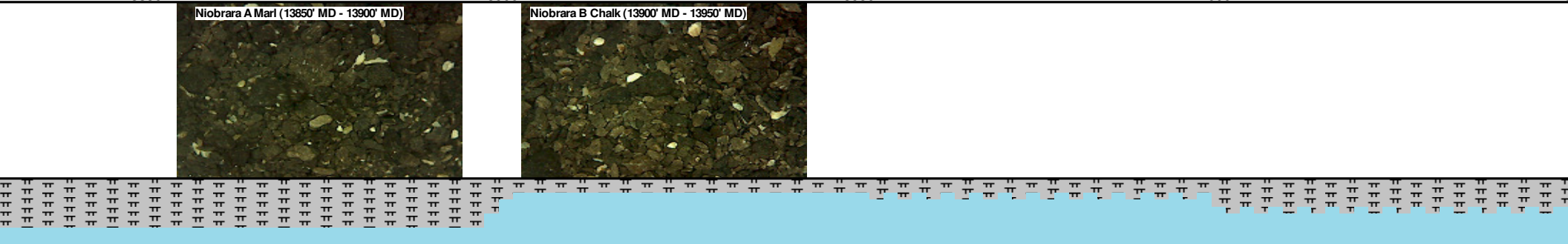


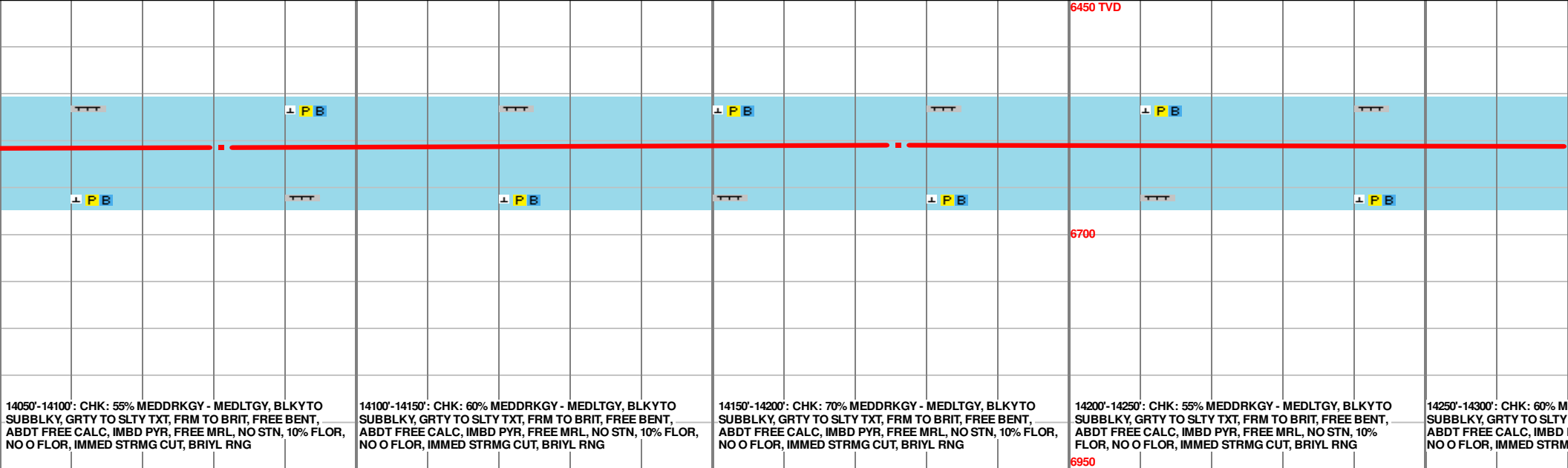
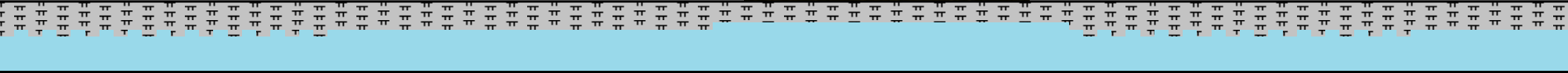
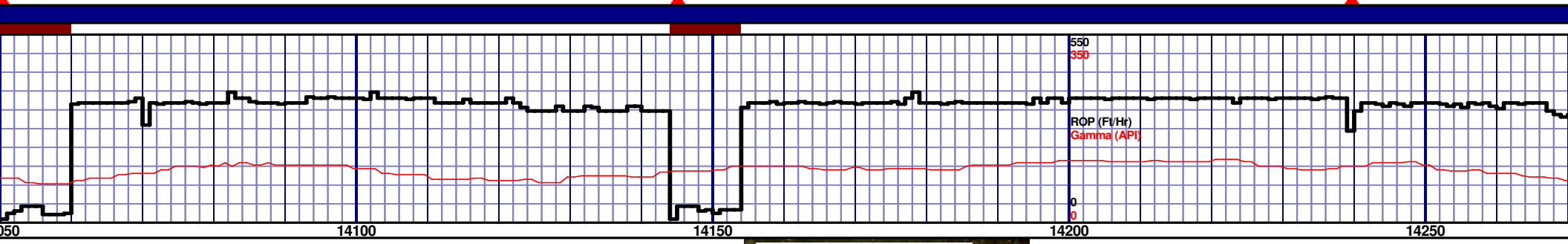
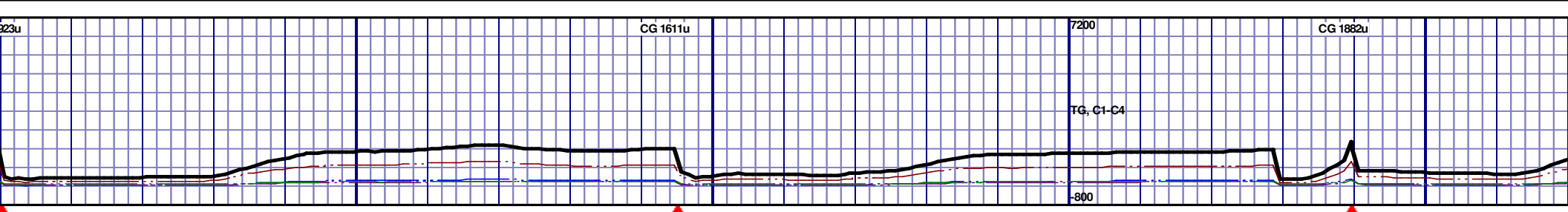


NIOBRARA B CHALK 13072' MD 6623' TVD									
12950'-13000': MRST: 60% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC IMBD PYR, FREE BENT, ABDT FREE CALC, FREE CHK, NO STN, 5% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	13000'-13050': MRST: 60% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC IMBD PYR, FREE BENT, ABDT FREE CALC, FREE CHK, NO STN, 5% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	13050'-13100': CHK: 70% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE BENT, ABDT FREE CALC, IMBD PYR, FREE MRL, NO STN, 10% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	13100'-13150': CHK: 75% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE BENT, ABDT FREE CALC, IMBD PYR, FREE MRL, NO STN, 10% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	13150'-13200': CHK: 65% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE BENT, ABDT FREE CALC, IMBD PYR, FREE MRL, NO STN, 10% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG					



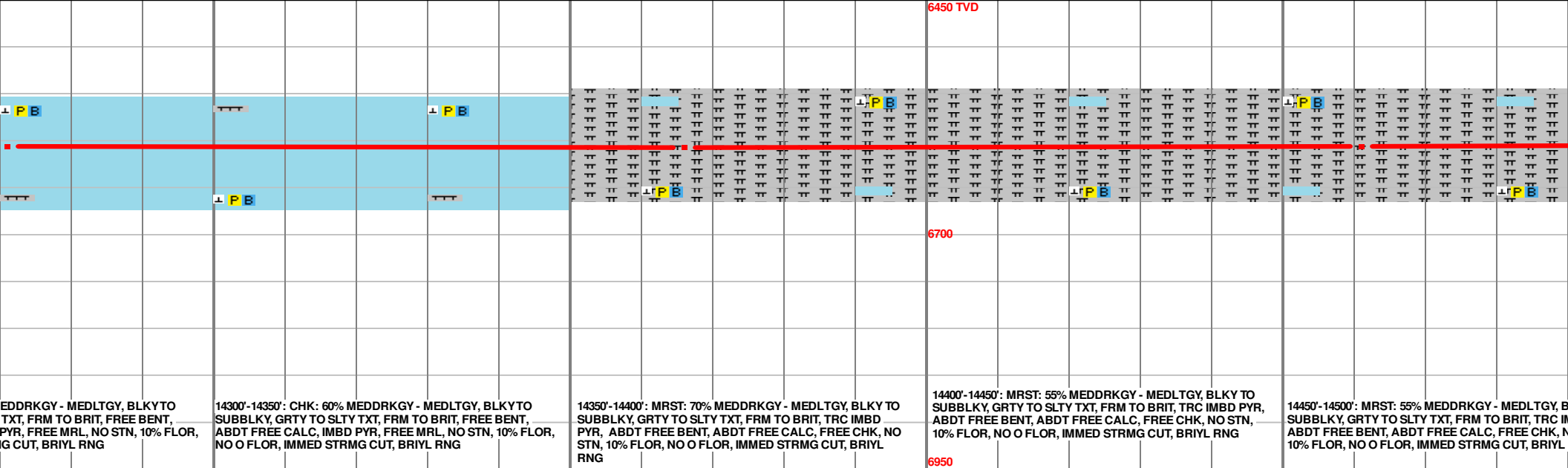
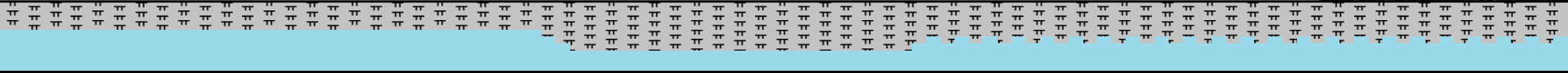
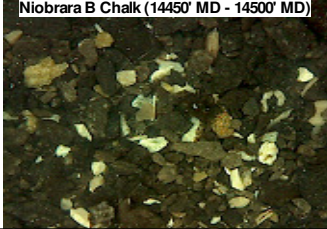
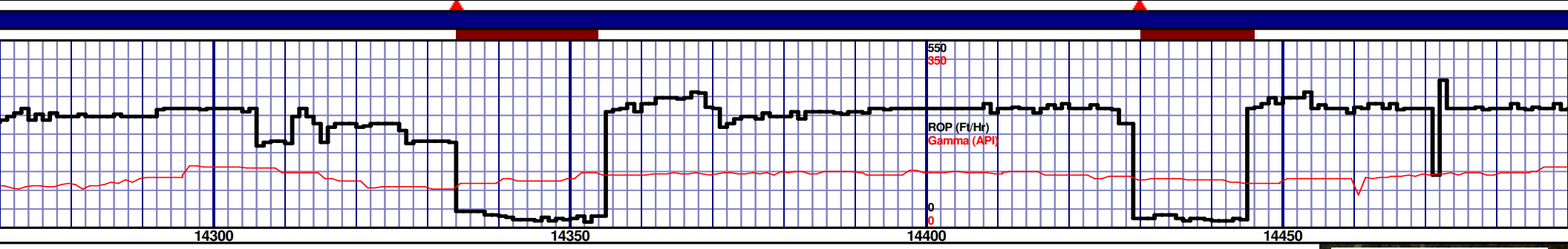
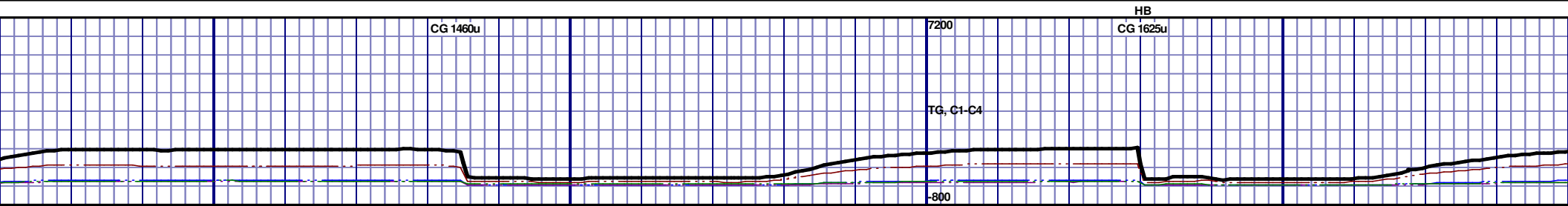


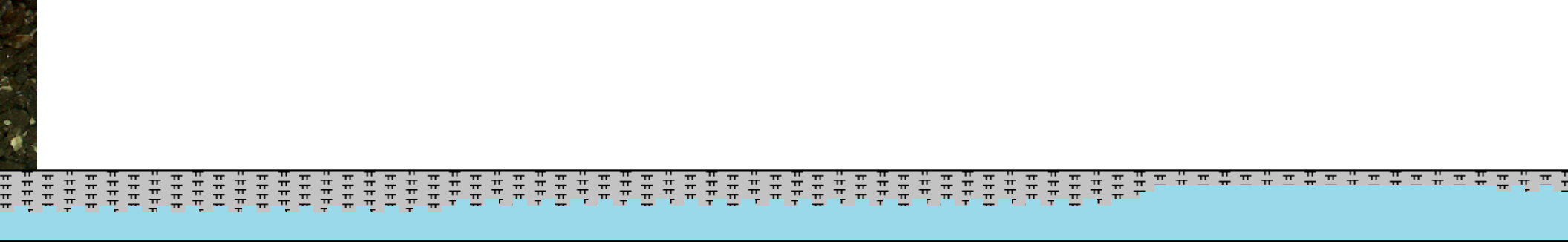
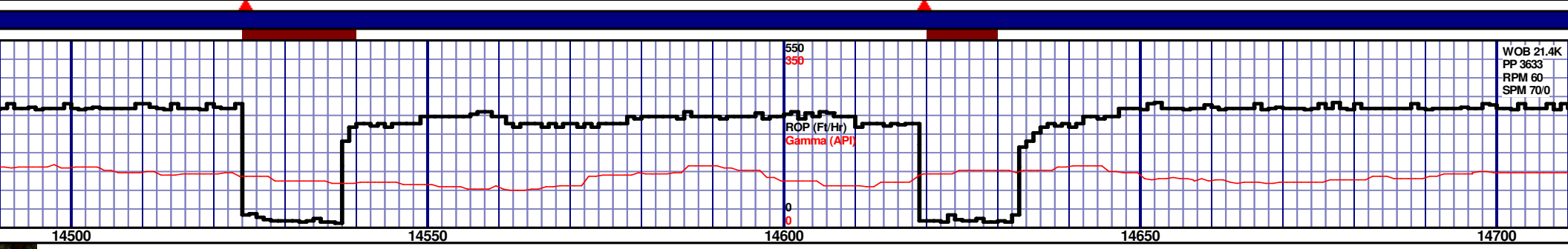
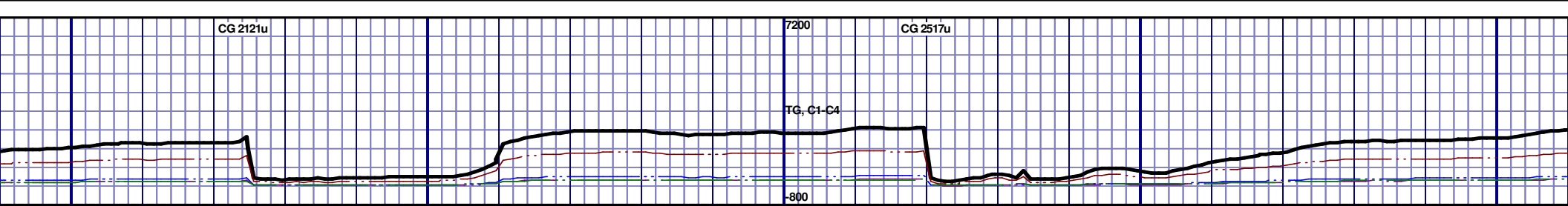




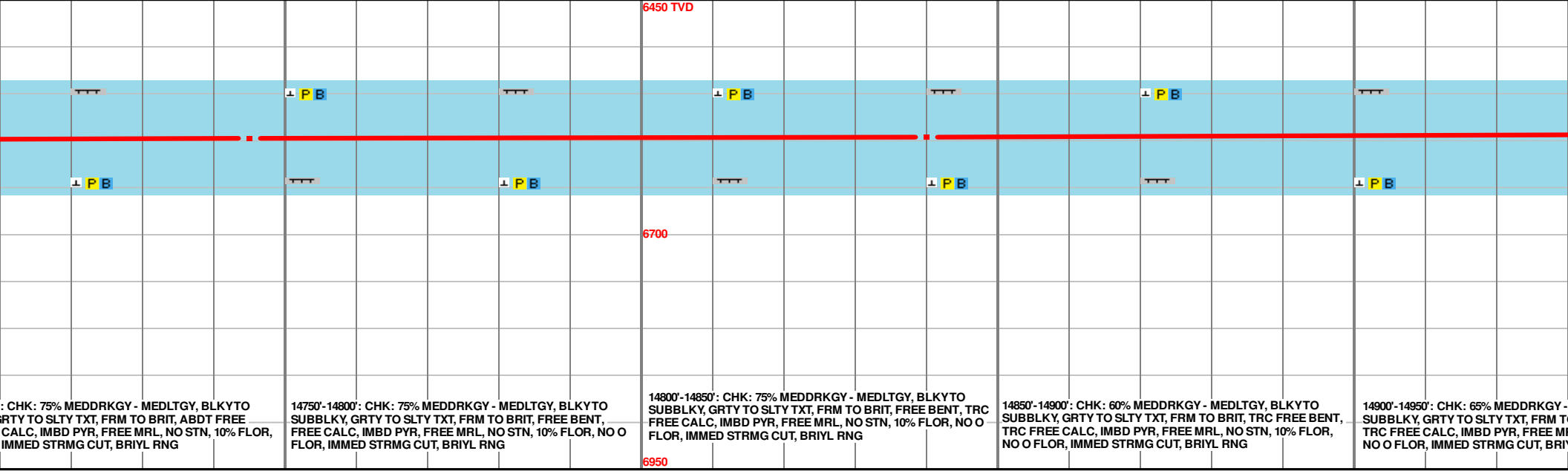
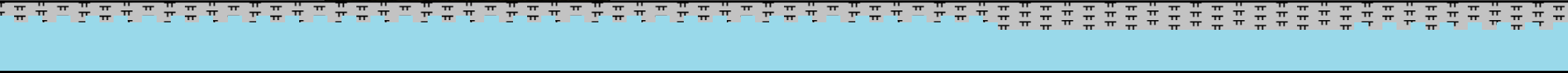
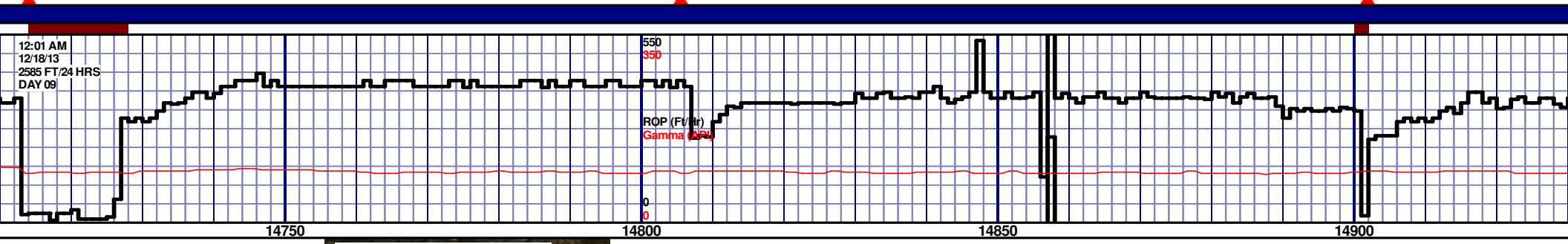
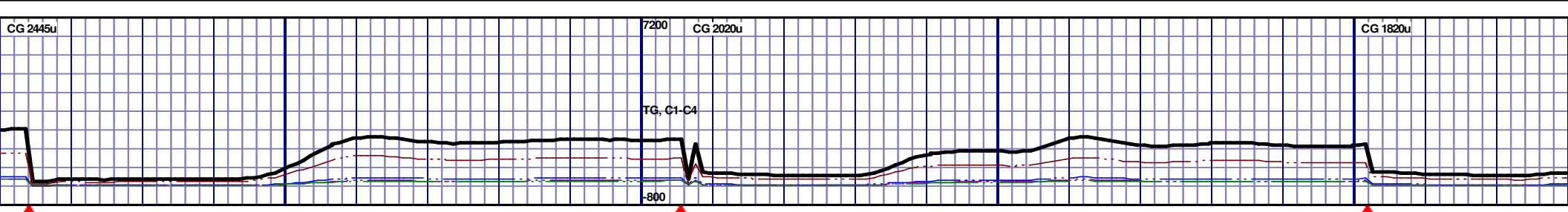
MD 14081 TVD 6607.13
INC 91.88 AZ 91.87
VS 7640.84

MD 14176 TVD 6605.27
INC 90.37 AZ 90.89
VS 7735.46



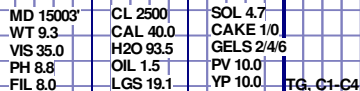


		6450 TVD					
		6700					
		6950					
BLKY TO IMBD PYR, NO STN, RNG	14500'-14550': MRST: 55% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC IMBD PYR, ABDT FREE BENT, ABDT FREE CALC, FREE CHK, NO STN, 10% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	14550'-14600': CHK: 55% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, ABDT FREE BENT, ABDT FREE CALC, IMBD PYR, FREE MRL, NO STN, 10% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	14600'-14650': CHK: 55% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, ABDT FREE BENT, ABDT FREE CALC, IMBD PYR, FREE MRL, NO STN, 10% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	14650'-14700': CHK: 80% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE BENT, FREE CALC, IMBD PYR, FREE MRL, NO STN, 10% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	14700'-14750': SUBBLKY, G BENT, FREE NO O FLOR,		

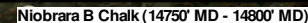


MD 14745 TVD 6597.11
INC 90.8 AZ 90.22
VS 6302.75

MD 14840 TVD 6595.94
INC 90.62 AZ 89.5
VS 6397.57

ROP (Ft/Hr)
Gamma (API)

0



6700

6950

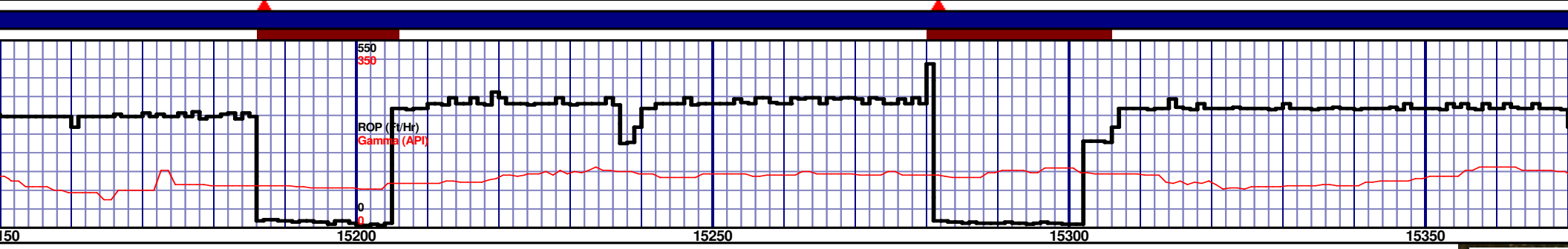
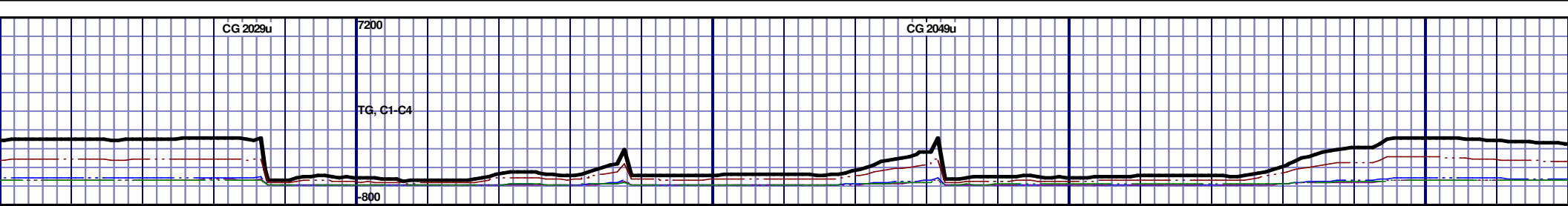
MEDLTGY, BLKYTO
O BRIT, TRC FREE BENT,
RL, NO STN, 10% FLOR,
YL RNG

14950'-15000': CHK: 80% MEDDRKGY - MEDLTGY, BLKYTO
SUBBLKY, GR TY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT,
TRC FREE CALC, IMBD PYR, FREE MRL, NO STN, 10% FLOR,
NO O FLOR. IMMED STRMG CUT. BRIYL RNG

15000'-15050': CHK: 70% MEDDRKGY - MEDLTGY, BLKYTO
SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE
BENT, TRC FREE CALC, IMBD PYR, FREE MRL, NO STN,
10% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG

15050'-15100': CHK: 80% MEDDRKGY - MEDLTGY, BLKYTO
SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE
BENT, TRC FREE CALC, IMBD PYR, FREE MRL, NO STN, 10%
FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG

15100'-15150': CHK: 80% MEDDRKGY - MEDLTGY, BLKYTO
SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE
BENT, TRC FREE CALC, IMBD PYR, FREE MRL, NO STN,
10% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG



15150'-15200': CHK: 75% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT, TRC FREE CALC, IMBD PYR, FREE MRL, NO STN, 10% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG		15200'-15250': CHK: 80% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT, TRC FREE CALC, IMBD PYR, FREE MRL, NO STN, 10% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG		15250'-15300': CHK: 90% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT, TRC FREE CALC, IMBD PYR, FREE MRL, NO STN, 10% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG		15300'-15350': CHK: 70% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT, TRC FREE CALC, IMBD PYR, FREE MRL, NO STN, 10% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG		15350'-15400': CHK: 70% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, TRC FREE BENT, TRC FREE CALC, IMBD PYR, FREE MRL, NO STN, 10% FLOR, NO O FLOR, IMMED STRMG CUT, BRIYL RNG	
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MD 15220 TVD 6591.71
INC 90.18 AZ 92.46
VS 8776.08

MD 15315 TVD 6592.94
INC 88.33 AZ 89.76
VS 8870.74

