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WWW.HZMUD.COM/25

Customer Information

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

Geologist: Renee Clackler
Noble Energy Inc.

Mud Logging Details

Logger: Sam Stelzer &
Scott Haney
Log Interval: 5920' MD to 10610' MD
Start Date: April 17, 2015
Release Date: April 20, 2015

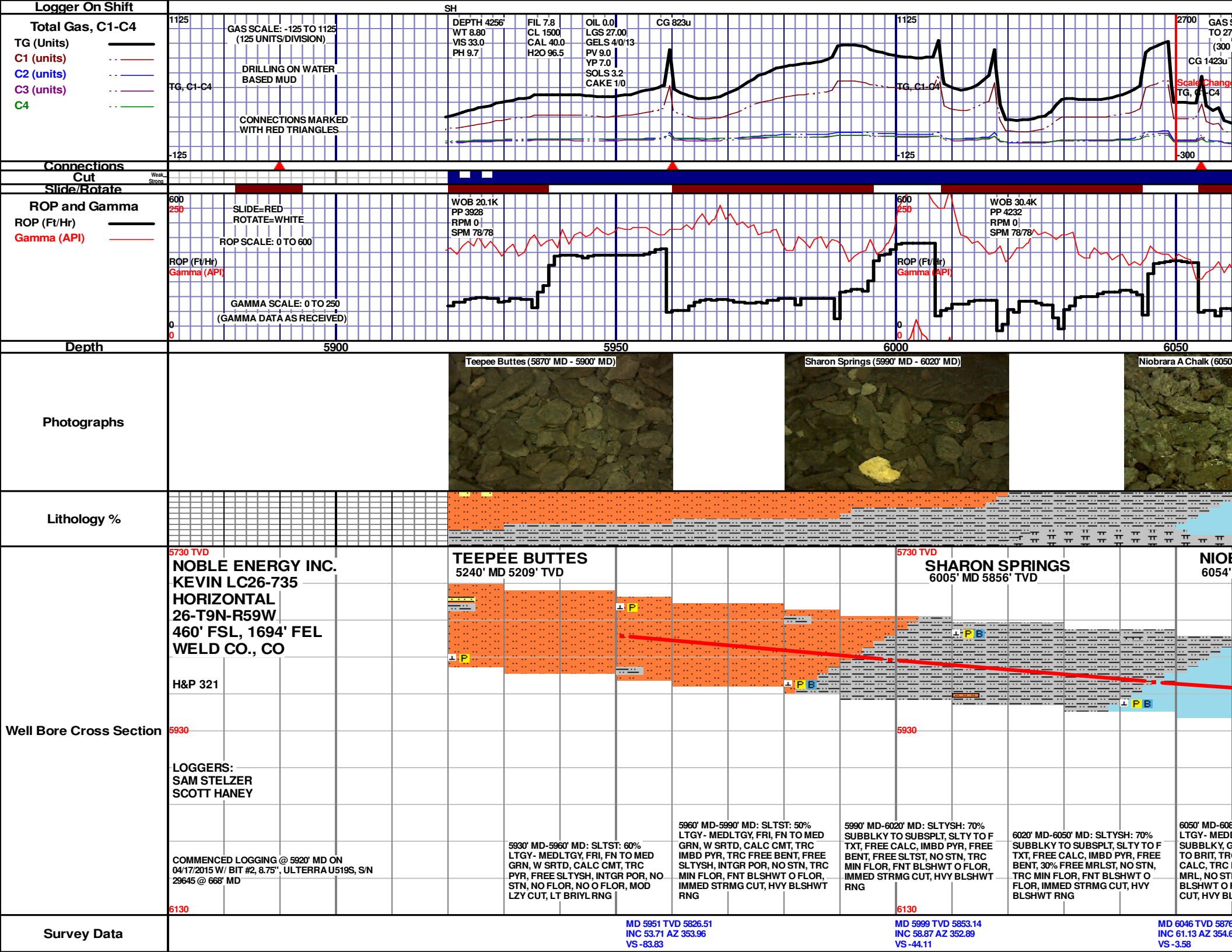
Well Information

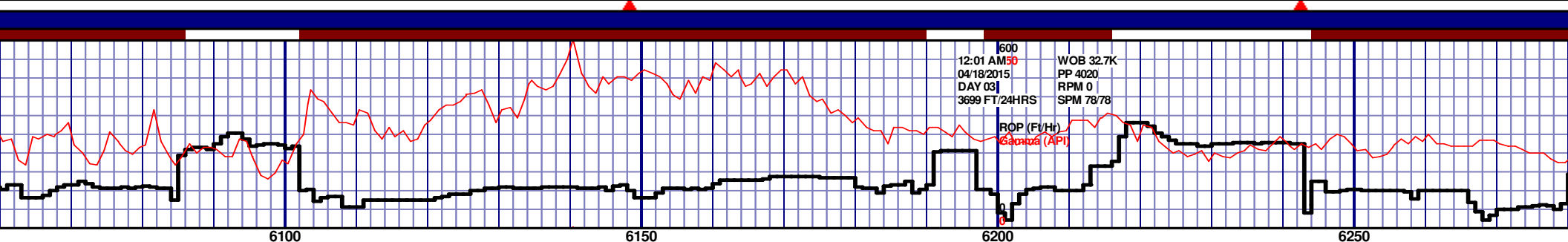
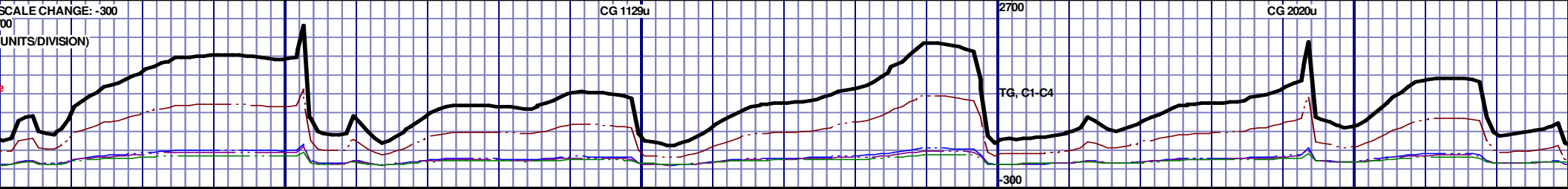
Well Name: Kevin LC26-735 Horizontal

Location: 26-T9N-R59W
460' FSL, 1694' FEL

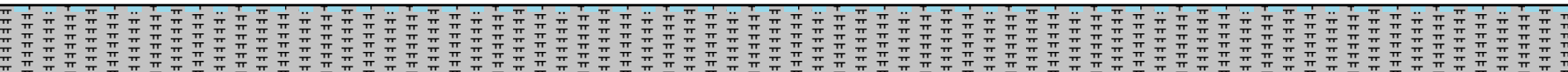
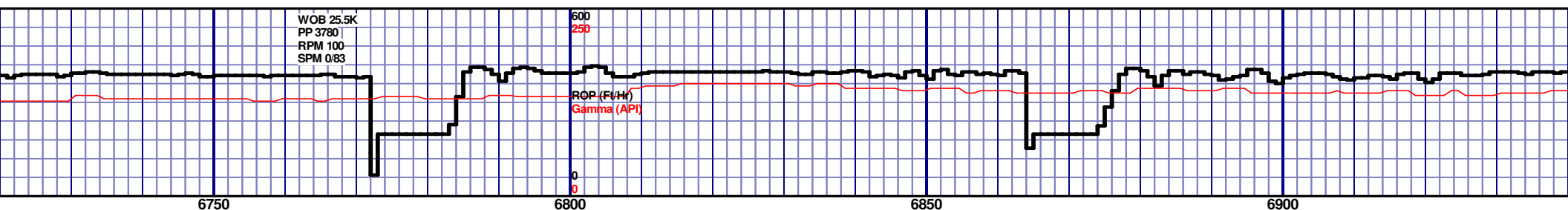
County: Weld
State: Colorado

Drilling Rig: H&P 321
Total Depth: 10610' MD
TD Date: April 20, 2015
Formation: Niobrara A Marl
KB Elevation: 4880'
GR Elevation: 4850'
API Number: 05-123-40681-0000





BRARA A CHALK MD 5880' TVD										NIOBRARA A MARL 6105' MD 5903' TVD										5730 TVD									
6080' MD-6110' MD: MRST: 60% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE CALC, TRC FREE BENT, IMBD PYR, 40% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG										6110' MD-6140' MD: MRST: 80% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE CALC, TRC FREE BENT, IMBD PYR, 20% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG										6140' MD-6170' MD: MRST: 80% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE CALC, TRC FREE BENT, IMBD PYR, 20% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG									
6170' MD-6200' MD: MRST: 60% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE CALC, TRC FREE BENT, IMBD PYR, 40% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG										6200' MD-6230' MD: MRST: 70% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE CALC, TRC FREE BENT, IMBD PYR, 30% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG										6230' MD-6260' MD: MRST: 60% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE CALC, TRC FREE BENT, IMBD PYR, 40% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG									
6260' MD-6309' MD: MRST: 60% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE CALC, TRC FREE BENT, IMBD PYR, 40% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG										6309' MD-6339' MD: MRST: 60% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE CALC, TRC FREE BENT, IMBD PYR, 40% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG										6339' MD-6369' MD: MRST: 60% MEDDRKGY - MEDLTGY, BLKYTO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE CALC, TRC FREE BENT, IMBD PYR, 40% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG									



5730 TVD

5930

95% MEDDRKGY - MEDLTGY, BLKY
SLTY TXT, FRM TO BRIT, FREE CALC,
NO STN, NO MIN FLOR, FNT
STRMG CUT, HVY BLSHWT RNG

6750' MD-6800' MD: MRST: 95% MEDDRKGY - MEDLTGY, BLKY
TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE CALC,
IMBD PYR, 5% FREE CHK, NO STN, NO MIN FLOR, FNT
BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG

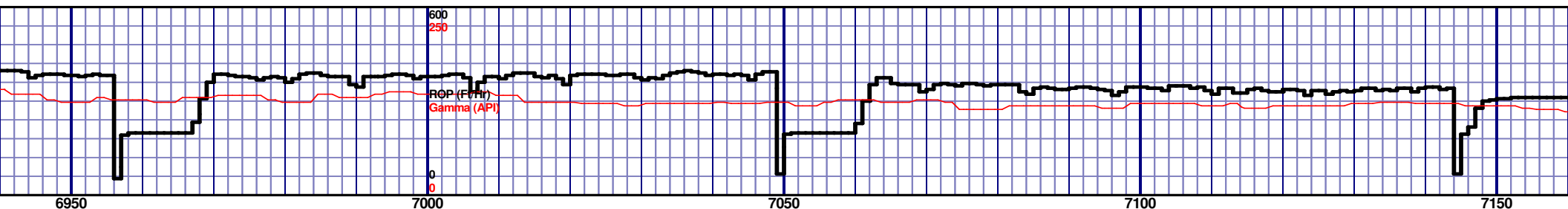
6800' MD-6850' MD: MRST: 95% MEDDRKGY - MEDLTGY, BLKY
TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE CALC,
IMBD PYR, 5% FREE CHK, NO STN, NO MIN FLOR, FNT
BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG

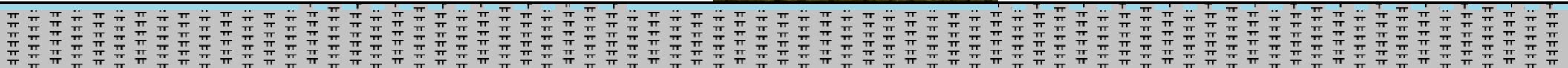
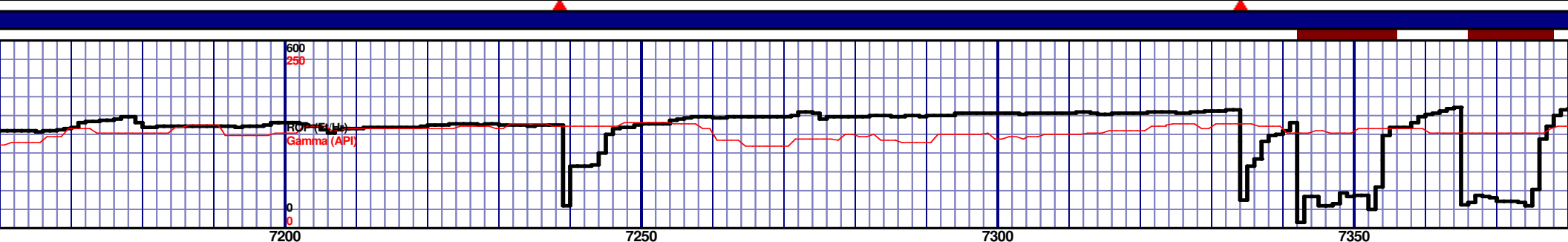
6850' MD-6900' MD: MRST: 95% MEDDRKGY - MEDLTGY, BLKY TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FREE CALC, IMBD PYR, 5% FREE CHK, NO STN, NO MIN FLOR, FNT BLSHW O FLOR, IMMED STRMG CUT, HVY BLSHW RRG

6900' MD-6950' MD: MRST: 95% MEDDRKGY - MEDL
TO SUBBLKY, GRTY TO SLTY TXT, FRM TO BRIT, FR
IMBD PYR, 5% FREE CHK, NO STN, NO MIN FLOR, F
BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHW

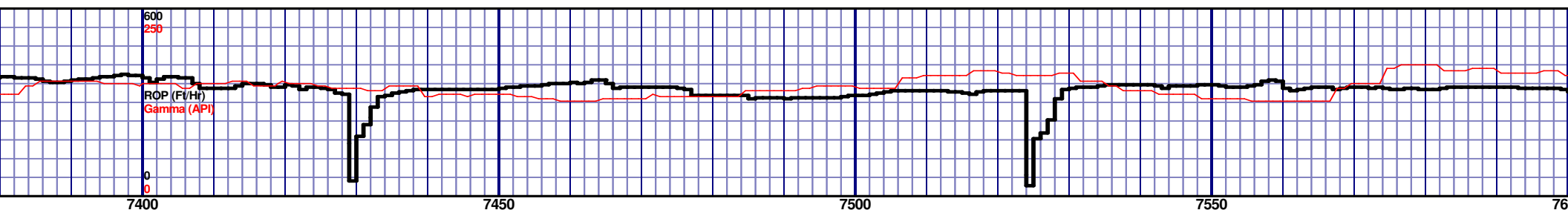
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INC 89.78 AZ 357
VS 734.77

MD 6888 TVD 5948.91
INC 90.22 AZ 356.96
VS 826.71

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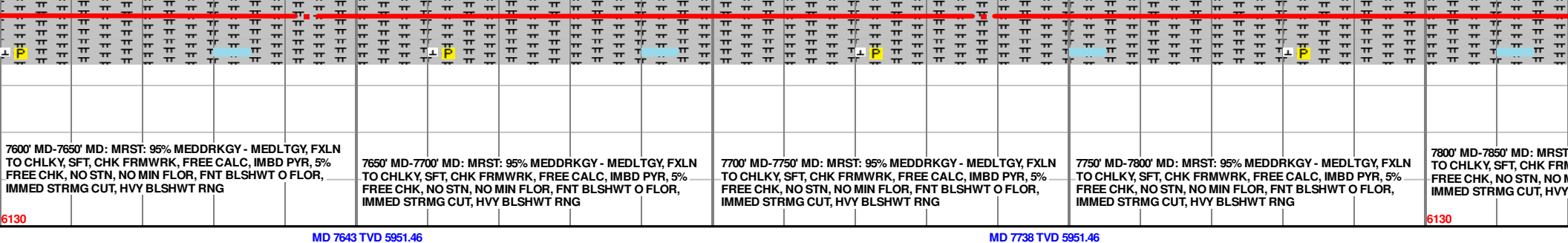
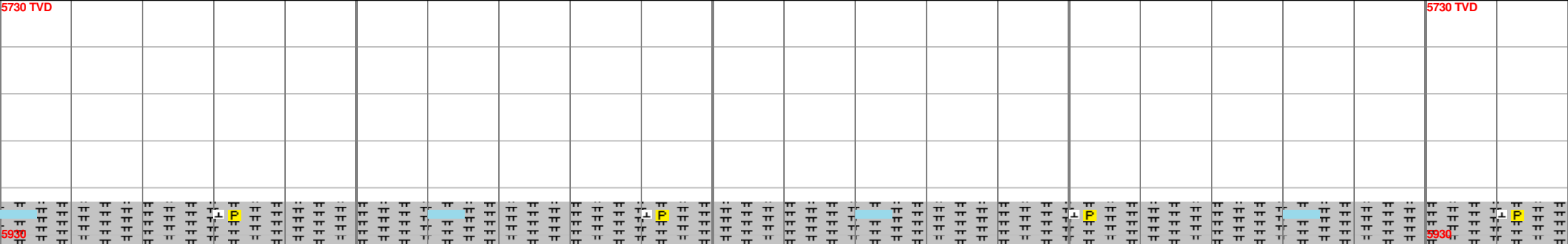
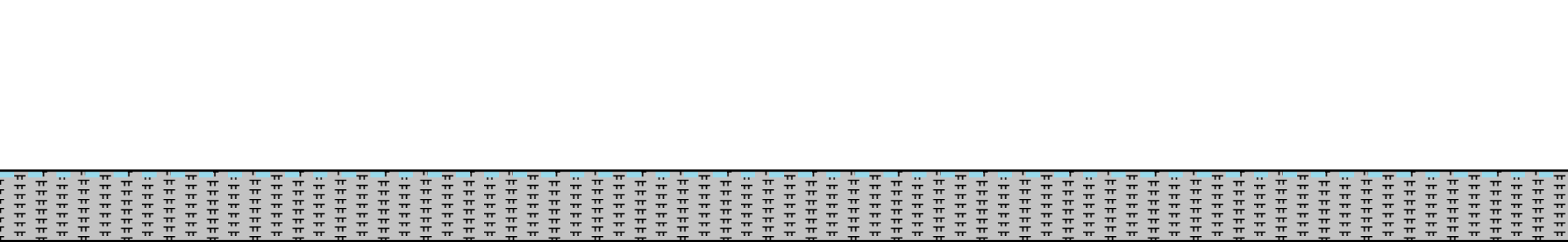
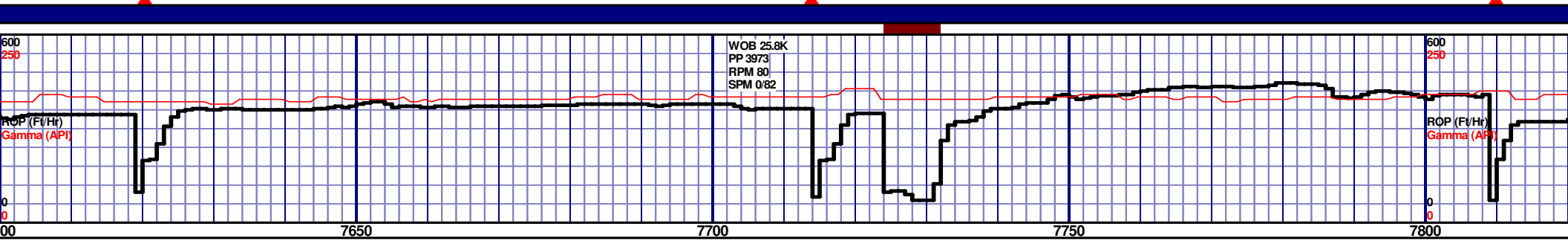
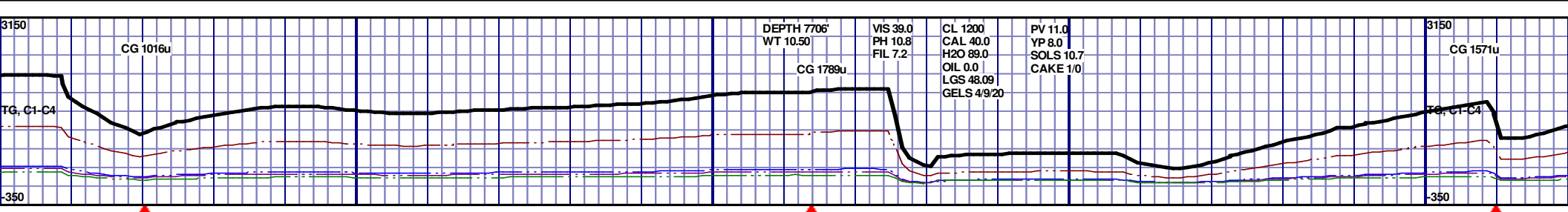


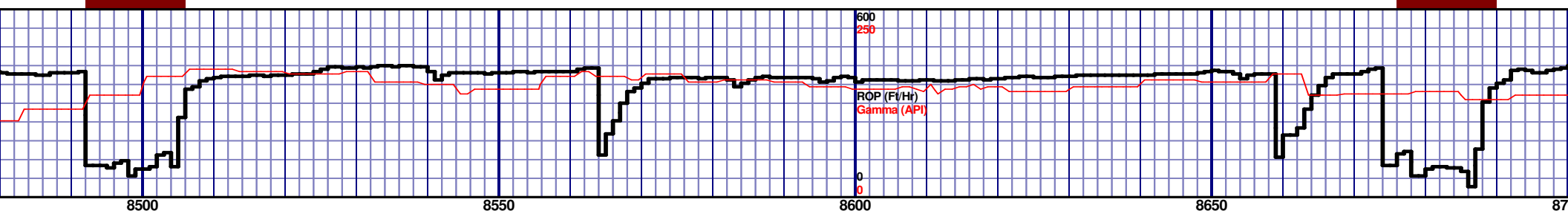
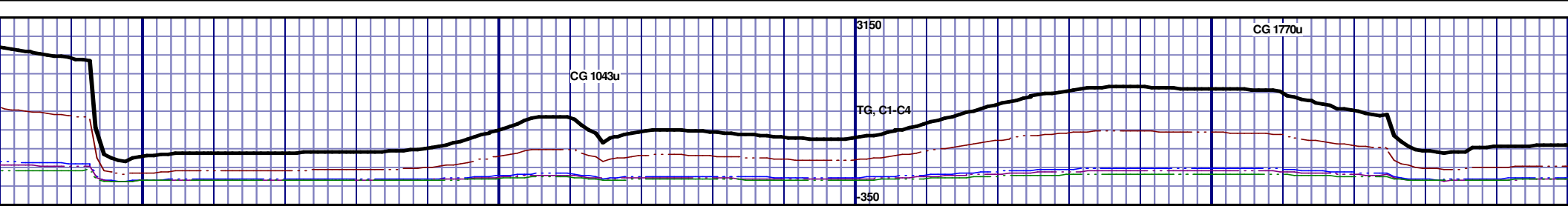
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INC 89.2 AZ 355.69	INC 88.58 AZ 354.85
VS 1108.47	VS 1202.24

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MD 7454 TVD 5950.79
INC 90.8 AZ 356.23
VS 1391.86

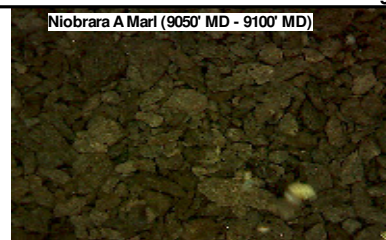
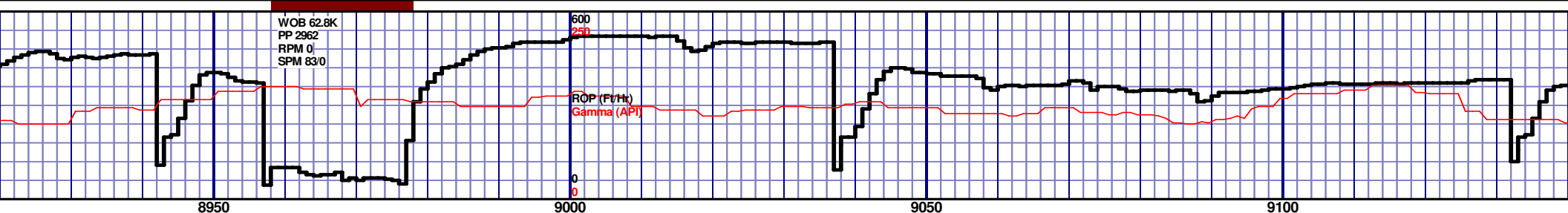
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INC 89.63 AZ 357.33
VS 1485.78







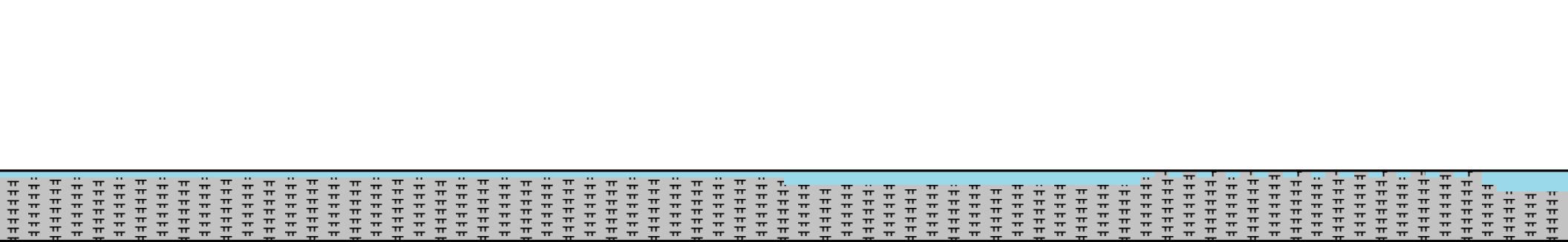
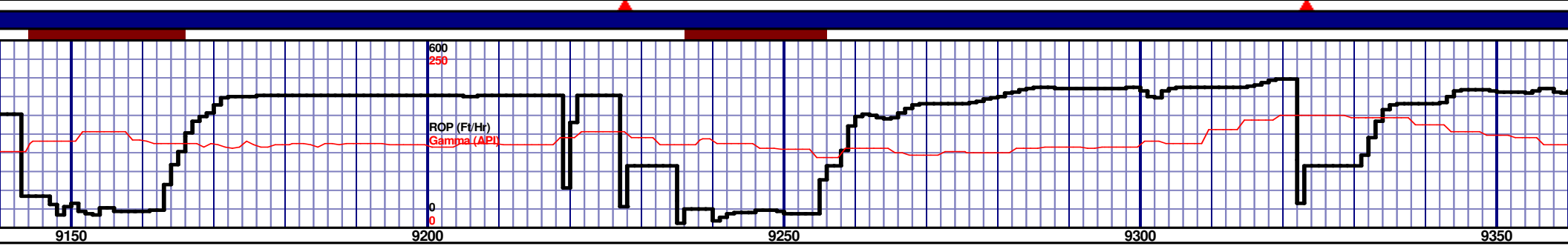
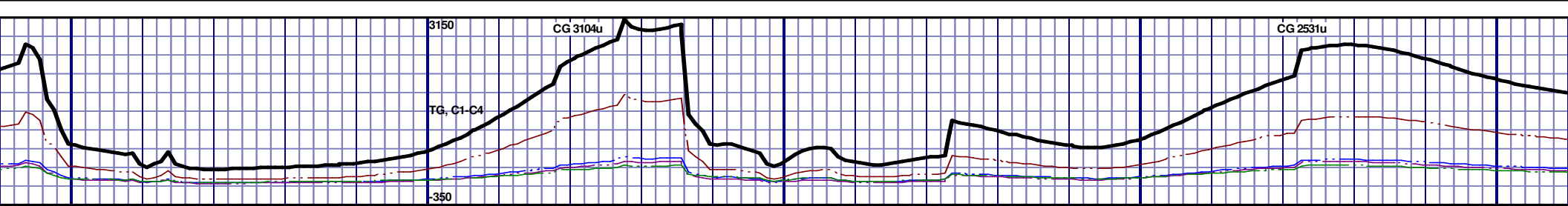
8700' MD-8750' MD: MRST: 80% MEDDRKGY - MEDLTGY, FXLN TO CHLKY, SFT, CHK FRMWRK, FREE CALC, IMBD PYR, FREE BENT, 20% FREE CHK, NO STN, 10% MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG	8750' MD-8800' MD: MRST: 90% MEDDRKGY - MEDLTGY, FXLN TO CHLKY, SFT, CHK FRMWRK, FREE CALC, IMBD PYR, FREE BENT, 10% FREE CHK, NO STN, 10% MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG	8800' MD-8850' MD: MRST: 90% MEDDRKGY - MEDLTGY, FXLN TO CHLKY, SFT, CHK FRMWRK, FREE CALC, IMBD PYR, FREE BENT, 10% FREE CHK, NO STN, 10% MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG	8850' MD-8900' MD: MRST: 95% MEDDRKGY - MEDLTGY, FXLN TO CHLKY, SFT, CHK FRMWRK, FREE CALC, IMBD PYR, TRC FREE BENT, 5% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG	8900' MD-8950' MD: MRST: 95% MEDDRKGY - MEDLTGY, FXLN TO CHLKY, SFT, CHK FRMWRK, FREE CALC, IMBD PYR, TRC FREE BENT, 5% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG
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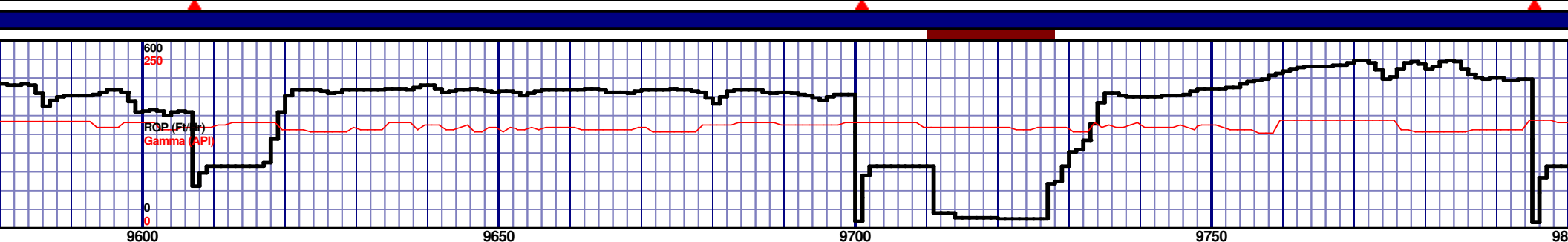
95% MEDDRKGY - MEDLTGY, FXLN FRMWRK, FREE CALC, IMBD PYR, TRC BENT, 10% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG	9500' MD-9050' MD: MRST: 90% MEDDRKGY - MEDLTGY, FXLN TO CHLKY, SFT, CHK FRMWRK, FREE CALC, IMBD PYR, TRC FREE BENT, 10% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG	9000' MD-9050' MD: MRST: 90% MEDDRKGY - MEDLTGY, FXLN TO CHLKY, SFT, CHK FRMWRK, FREE CALC, IMBD PYR, TRC FREE BENT, 10% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG	9050' MD-9100' MD: MRST: 80% MEDDRKGY - MEDLTGY, FXLN TO CHLKY, SFT, CHK FRMWRK, FREE CALC, IMBD PYR, TRC FREE BENT, 20% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG	9100' MD-9150' MD: MRST: 90% MEDDRKGY - MEDLTGY, FXLN TO CHLKY, SFT, CHK FRMWRK, FREE CALC, IMBD PYR, TRC FREE BENT, 10% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG
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INC 92.03 AZ 358.77
VS 2905.9

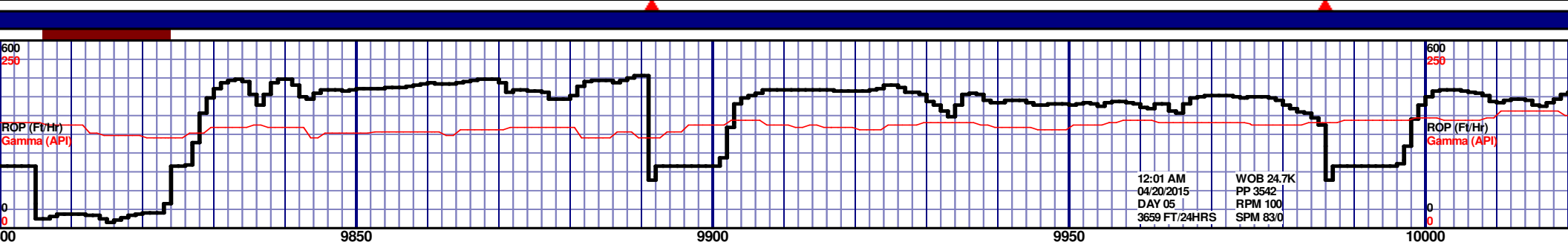
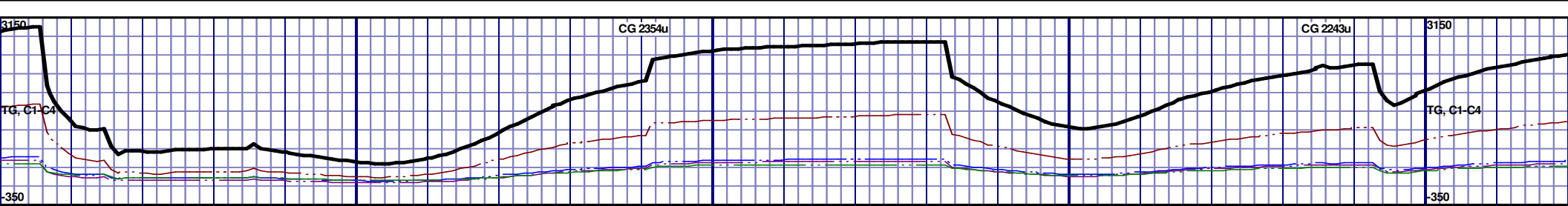
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INC 92.68 AZ 357.96
VS 3000.81



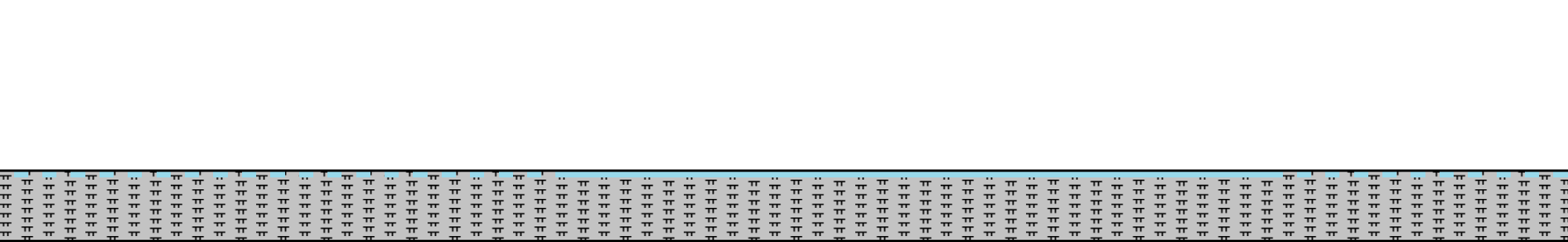
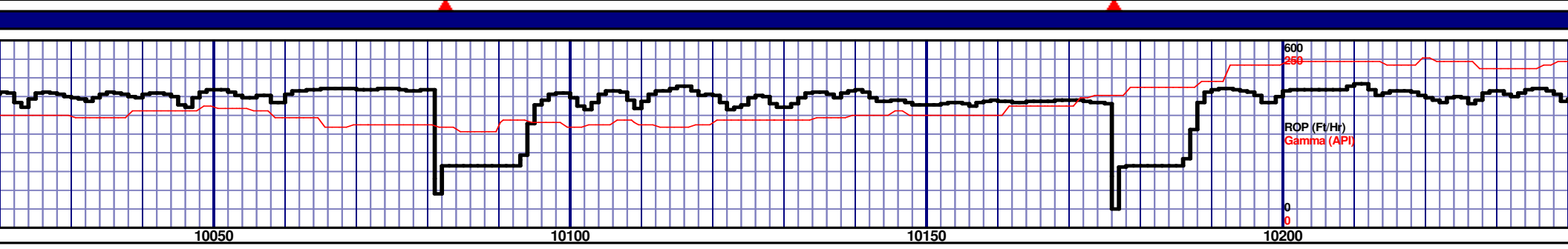
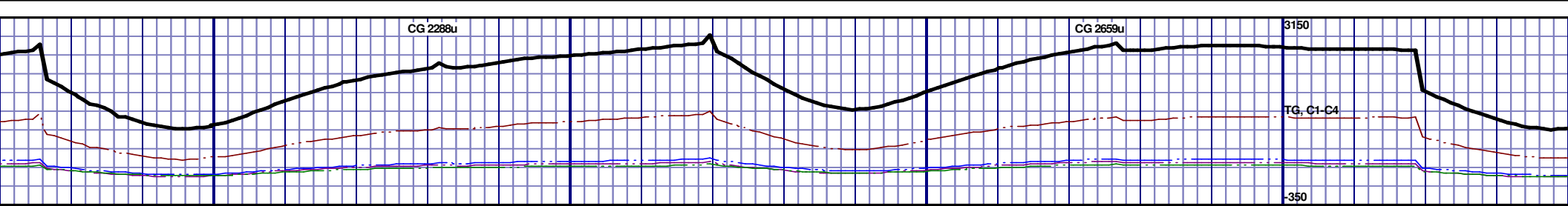
9150' MD-9200' MD: MRST: 90% MEDDRKGY - MEDLTGY, FXLN TO CHLKY, SFT, CHK FRMWRK, FREE CALC, IMBD PYR, TRC FREE BENT, 10% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG					9200' MD-9250' MD: MRST: 90% MEDDRKGY - MEDLTGY, FXLN TO CHLKY, SFT, CHK FRMWRK, FREE CALC, IMBD PYR, TRC FREE BENT, 10% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG					9250' MD-9300' MD: MRST: 80% MEDDRKGY - MEDLTGY, FXLN TO CHLKY, SFT, CHK FRMWRK, FREE CALC, IMBD PYR, TRC FREE BENT, 20% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG					9300' MD-9350' MD: MRST: 95% MEDDRKGY - MEDLTGY, FXLN TO CHLKY, SFT, CHK FRMWRK, FREE CALC, IMBD PYR, TRC FREE BENT, 5% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG					9350' MD-9400' MD: MRST: 95% MEDDRKGY - MEDLTGY, FXLN TO CHLKY, SFT, CHK FRMWRK, FREE CALC, IMBD PYR, TRC FREE BENT, 5% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG				
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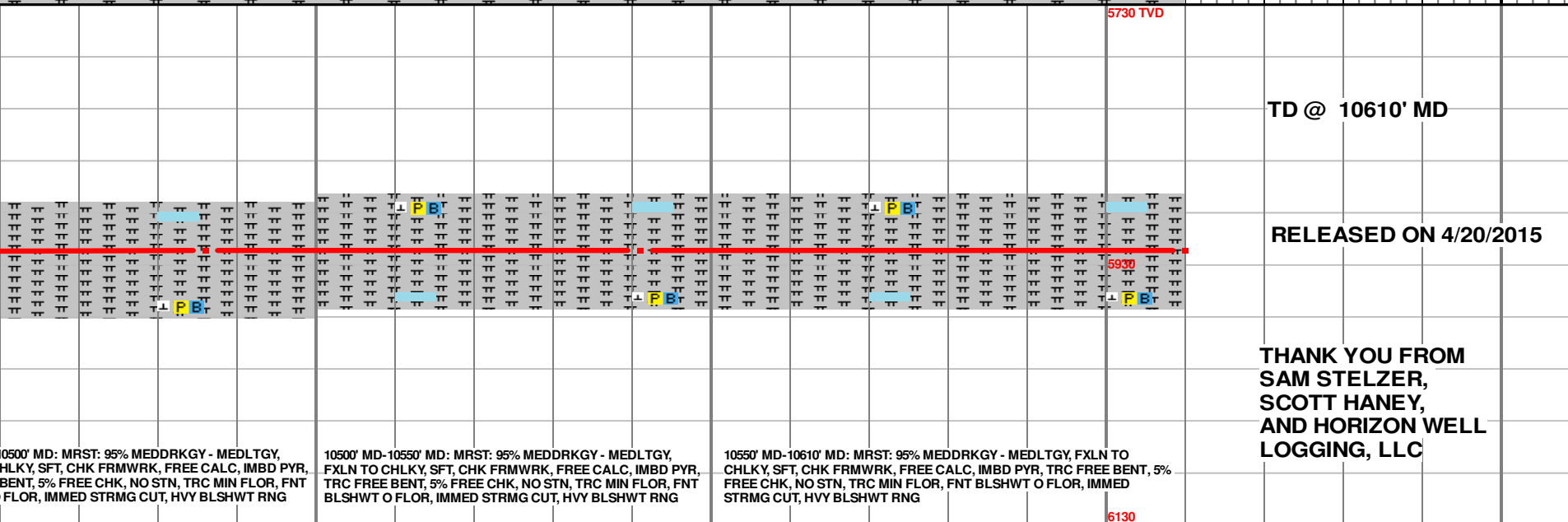
MD 9633 TVD 5926.22	MD 9728 TVD 5928.42
INC 88.92 AZ 357.82	INC 88.43 AZ 358.5
VS 3569.6	VS 3664.56



5730 TVD																									5730 TVD
9800' MD-9850' MD: MRST: 90% MEDDRKGY - MEDLTGY, FXLN TO CHLKY, SFT, CHK FRMWRK, FREE CALC, IMBD PYR, TRC FREE BENT, 10% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG																									9800' MD-9850' MD: MRST: 90% MEDDRKGY - MEDLTGY, FXLN TO CHLKY, SFT, CHK FRMWRK, FREE CALC, IMBD PYR, TRC FREE BENT, 10% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG
9850' MD-9900' MD: MRST: 90% MEDDRKGY - MEDLTGY, FXLN TO CHLKY, SFT, CHK FRMWRK, FREE CALC, IMBD PYR, TRC FREE BENT, 10% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG																									9850' MD-9900' MD: MRST: 90% MEDDRKGY - MEDLTGY, FXLN TO CHLKY, SFT, CHK FRMWRK, FREE CALC, IMBD PYR, TRC FREE BENT, 10% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG
9900' MD-9950' MD: MRST: 95% MEDDRKGY - MEDLTGY, FXLN TO CHLKY, SFT, CHK FRMWRK, FREE CALC, IMBD PYR, TRC FREE BENT, 5% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG																									9900' MD-9950' MD: MRST: 95% MEDDRKGY - MEDLTGY, FXLN TO CHLKY, SFT, CHK FRMWRK, FREE CALC, IMBD PYR, TRC FREE BENT, 5% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG
9950' MD-10000' MD: MRST: 95% MEDDRKGY - MEDLTGY, FXLN TO CHLKY, SFT, CHK FRMWRK, FREE CALC, IMBD PYR, TRC FREE BENT, 5% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG																									9950' MD-10000' MD: MRST: 95% MEDDRKGY - MEDLTGY, FXLN TO CHLKY, SFT, CHK FRMWRK, FREE CALC, IMBD PYR, TRC FREE BENT, 5% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG
10000' MD-10050' MD: MRST: 95% MEDDRKGY - MEDLTGY, FXLN TO CHLKY, SFT, CHK FRMWRK, FREE CALC, IMBD PYR, TRC FREE BENT, 5% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG																									10000' MD-10050' MD: MRST: 95% MEDDRKGY - MEDLTGY, FXLN TO CHLKY, SFT, CHK FRMWRK, FREE CALC, IMBD PYR, TRC FREE BENT, 5% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG



10050' MD-10100' MD: MRST: 95% MEDDRKGY - MEDLTGY, FXLN TO CHLKY, SFT, CHK FRMWRK, FREE CALC, IMBD PYR, TRC FREE BENT, 5% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG									
10100' MD-10150' MD: MRST: 90% MEDDRKGY - MEDLTGY, FXLN TO CHLKY, SFT, CHK FRMWRK, FREE CALC, IMBD PYR, TRC FREE BENT, 10% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG									
10150' MD-10200' MD: MRST: 90% MEDDRKGY - MEDLTGY, FXLN TO CHLKY, SFT, CHK FRMWRK, FREE CALC, IMBD PYR, TRC FREE BENT, 10% FREE CHK, NO STN, TRC MIN FLOR, FNT BLSHWT O FLOR, IMMED STRMG CUT, HVY BLSHWT RNG									
10200' MD-10250' MD: MRST: 95% MEDDRKGY - MEDLTGY, FXLN TO CHLKY, SFT, CHK FRMWRK, FREE CALC, IMBD PYR, TRC FREE BENT, 5% FREE CHK, NO STN, TRC MIN FLOR, IMMED STRMG CUT, HVY BLSHWT RNG									



**THANK YOU FROM
SAM STELZER,
SCOTT HANEY,
AND HORIZON WELL
LOGGING, LLC**