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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: Ross Apodaca &
Dan King

Log Interval: 5600' MD to 10168' MD

Start Date: September 23, 2014

Release Date: September 27, 2014

Well Information

Well Name: Rohn State
LD03-63HN HZ

Location: 3-9N-58W
1952' FSL, 330' FEL

County: Weld
State: Colorado

Drilling Rig: H&P 277

Total Depth: 10168' MD

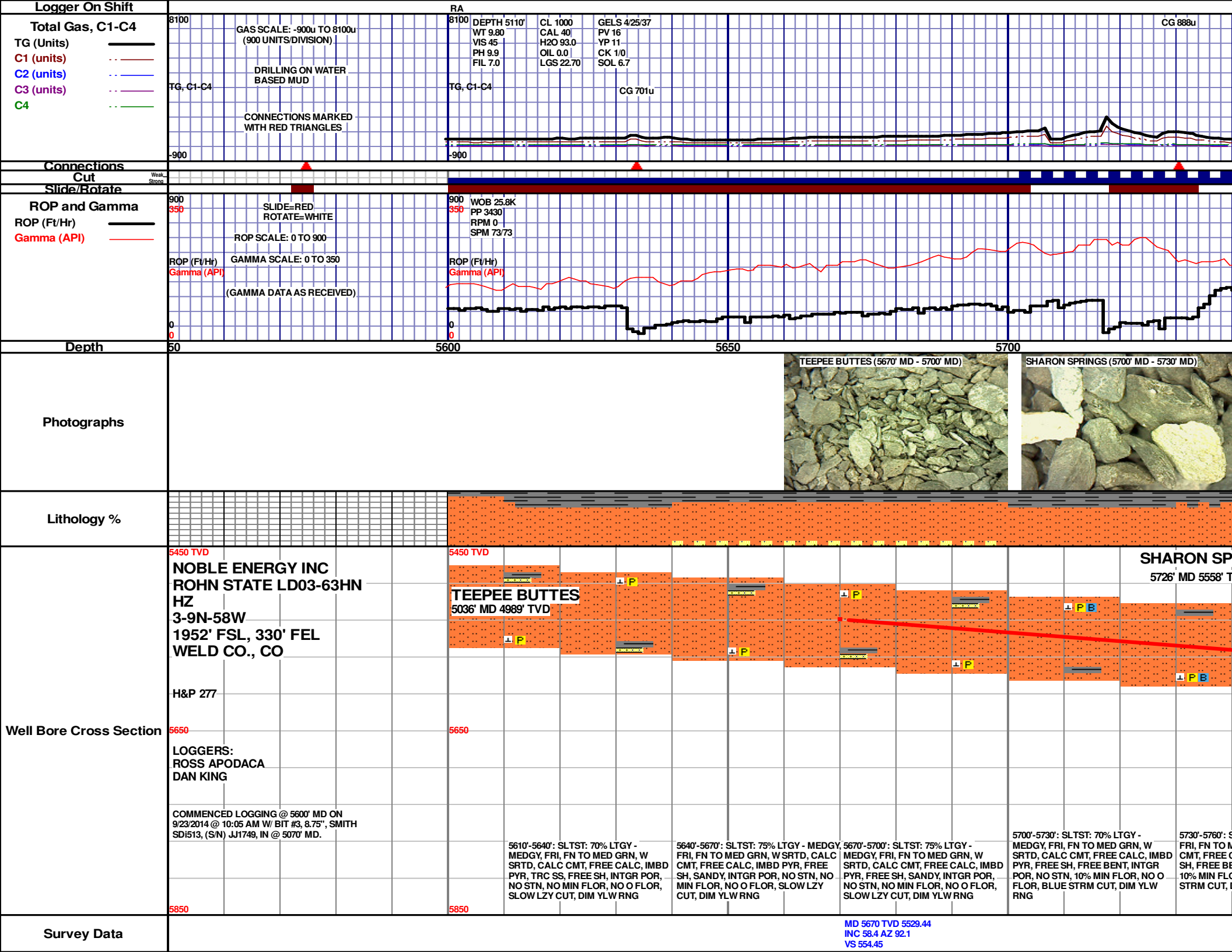
TD Date: September 27, 2014

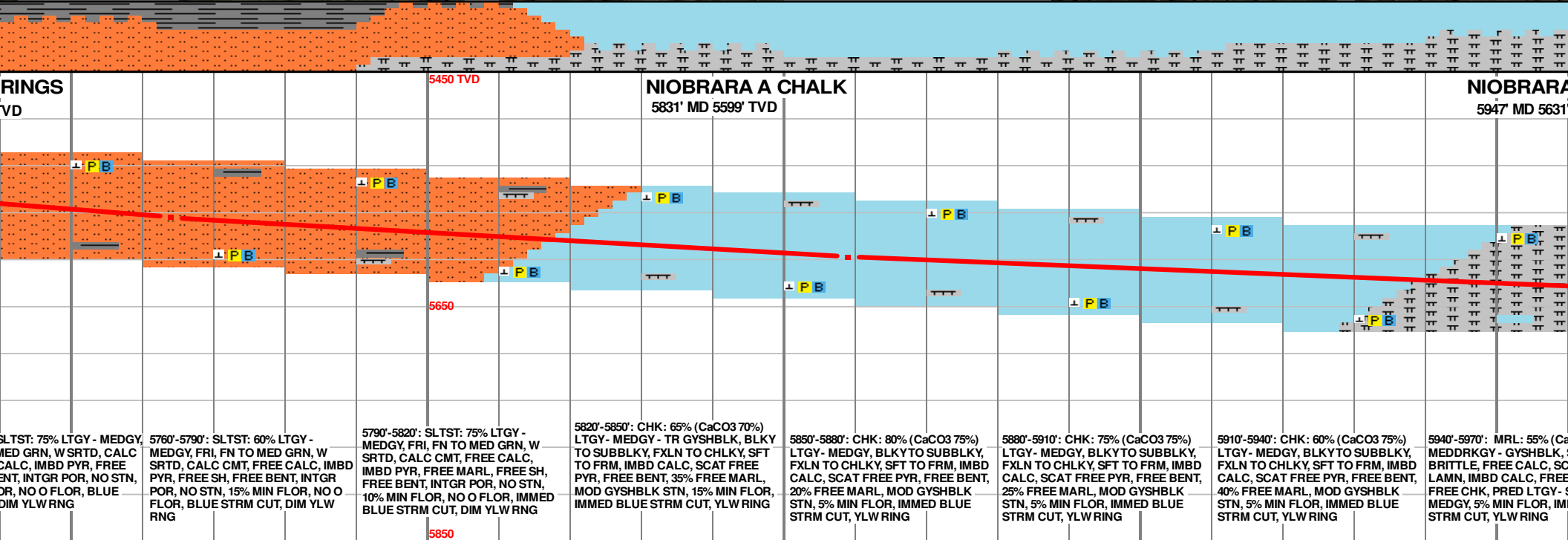
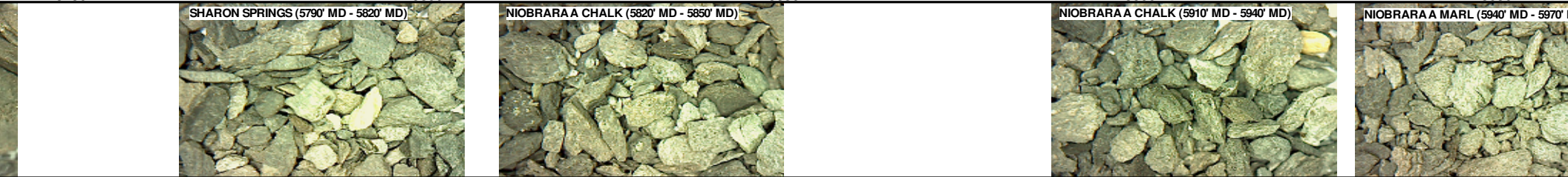
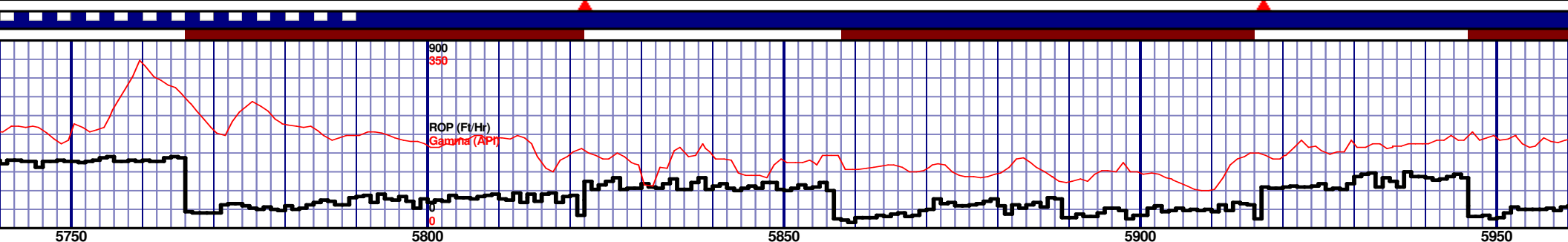
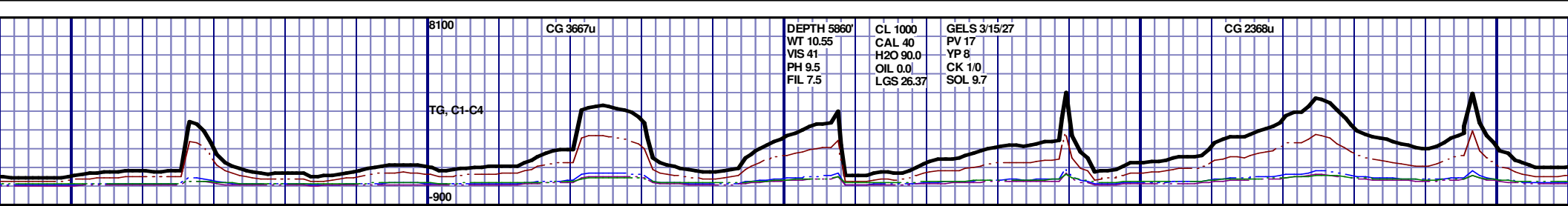
Formation: Niobrara A Marl

KB Elevation: 4729'

GR Elevation: 4705'

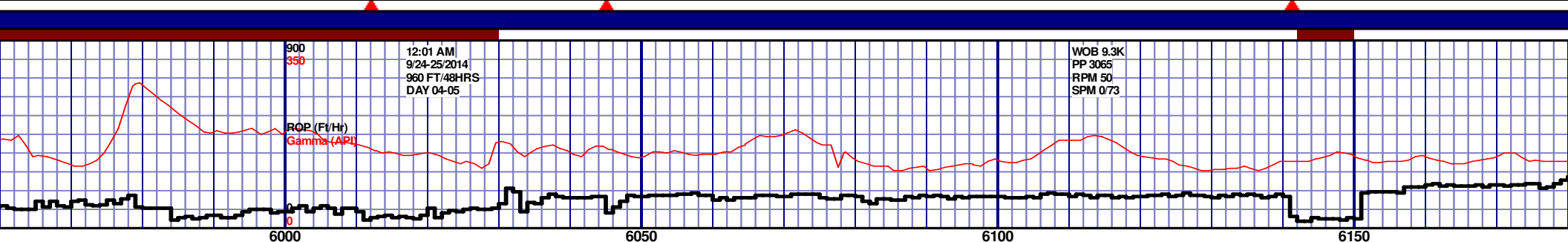
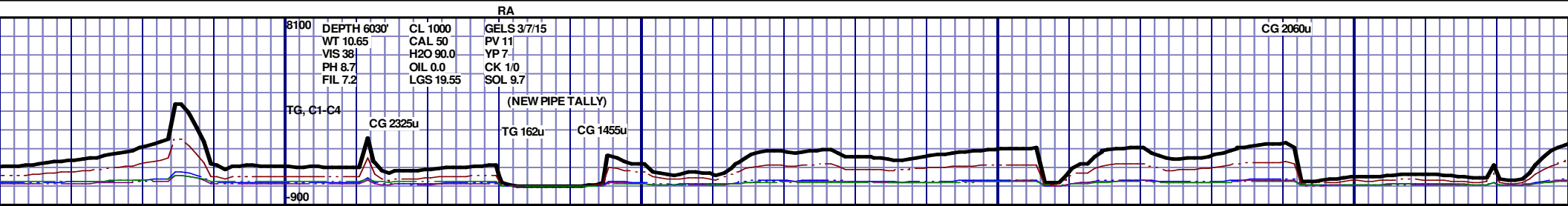
API Number: 05-123-37453-0000





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INC 65.65 AZ 92.21
VS 637.24

MD 5859 TVD 5608.06
INC 71.67 AZ 91.52
VS 725.48



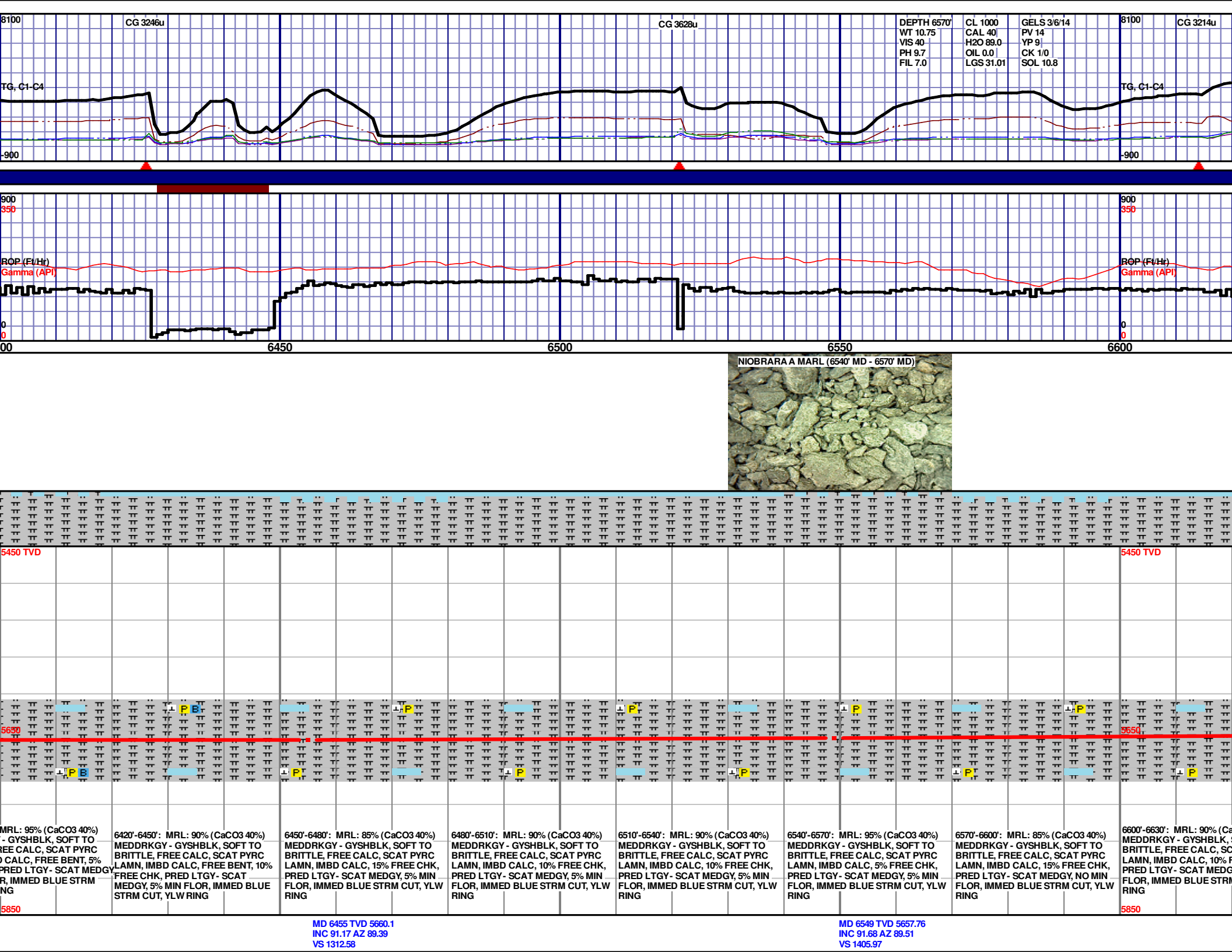
A MARL TVD									
TOOH @ 4:30 PM ON 9/23/14 @ 6030' MD FOR INTERMEDIATE CASING. TIH @ 1:30AM ON 9/25/2014. RESUMED DRILLING @ 8:00 AM ON 9/25/2014 W/ BIT #4, 6.125", SMITH SD1513, (S/N) JJ5085, IN @ 6030' MD.									
5450 TVD									
5650									
5850									
6000'-6030': MRL: 80% (CaCO3 45%) MEDDRKGY - GYSHBLK, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, FREE BENT, 20% FREE CHK, PRED LTGY - SCAT MEDGY, 5% MIN FLOR, IMMED BLUE STRM CUT, YLW RING									
6030'-6060': MRL: 75% (CaCO3 45%) MEDDRKGY - GYSHBLK, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 25% FREE CHK, PRED LTGY - SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING									
6060'-6090': MRL: 80% (CaCO3 45%) MEDDRKGY - GYSHBLK, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 20% FREE CHK, PRED LTGY - SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING									
6090'-6120': MRL: 60% (CaCO3 50%) MEDDRKGY - GYSHBLK, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 40% FREE CHK, PRED LTGY - SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING									
6120'-6150': MRL: 70% (CaCO3 45%) MEDDRKGY - GYSHBLK, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, FREE BENT, 30% FREE CHK, PRED LTGY - SCAT MEDGY, 5% MIN FLOR, IMMED BLUE STRM CUT, YLW RING									
6150'-6180': MRL: 70% (CaCO3 45%) MEDDRKGY - GYSHBLK, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, FREE BENT, 30% FREE CHK, PRED LTGY - SCAT MEDGY, 5% MIN FLOR, IMMED BLUE STRM CUT, YLW RING									

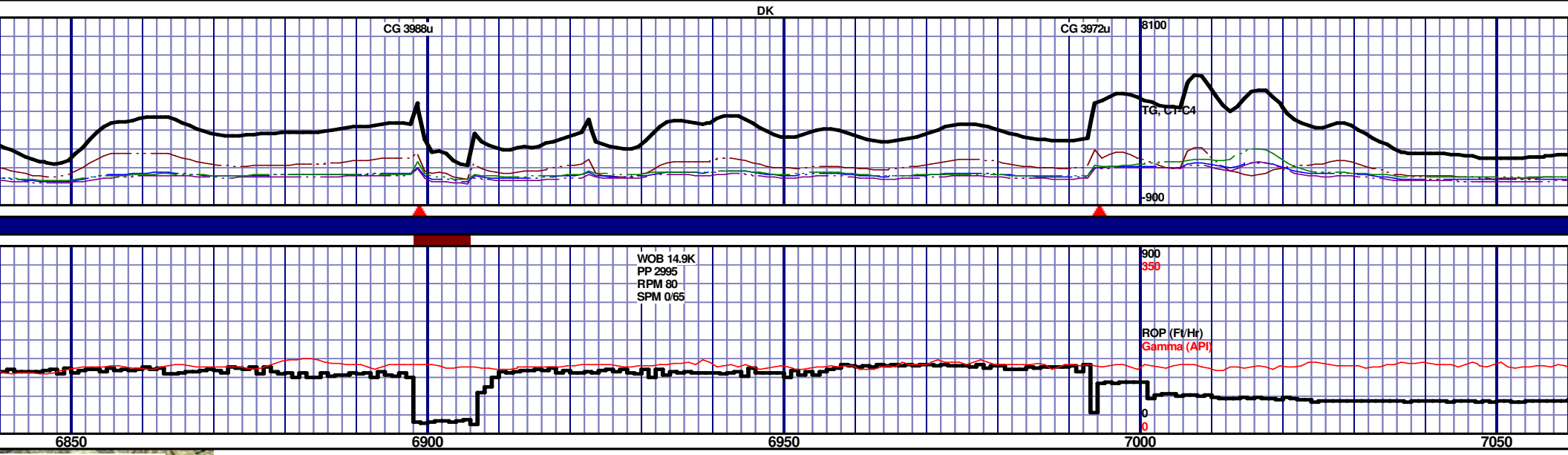
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INC 80.47 AZ 89.36
VS 834.55

MD 6078 TVD 5647.5
INC 86.25 AZ 86.83
VS 938.82

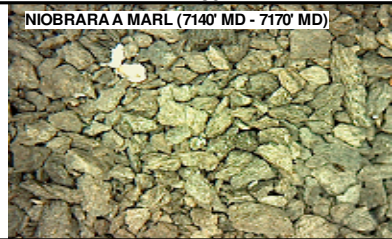
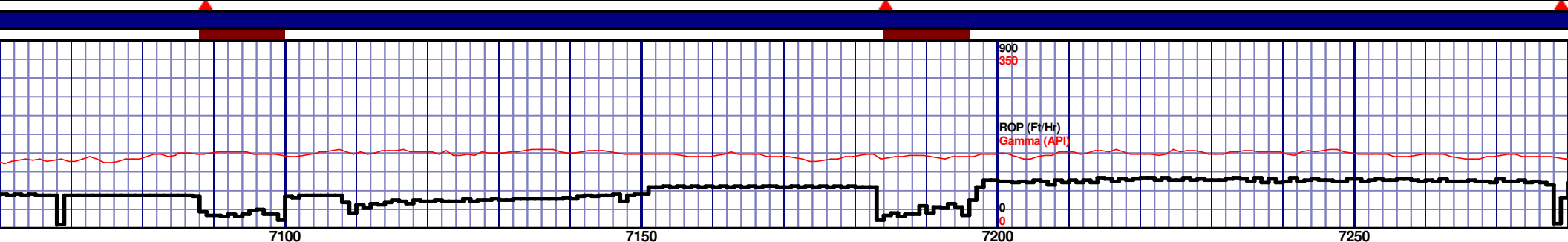
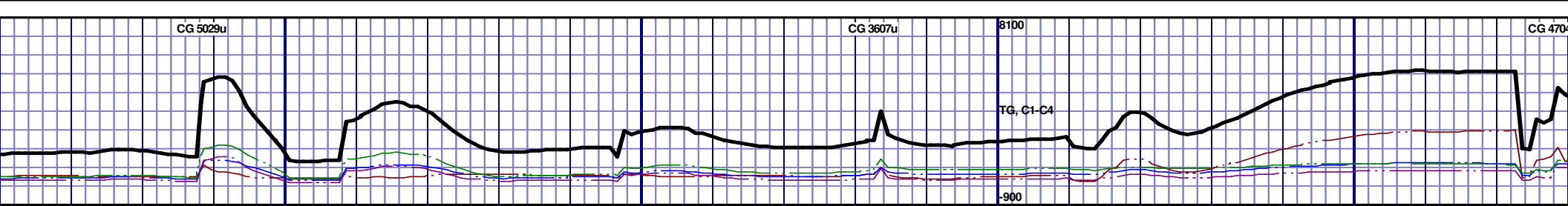
MD 6172
INC 87.01
VS 1031.6

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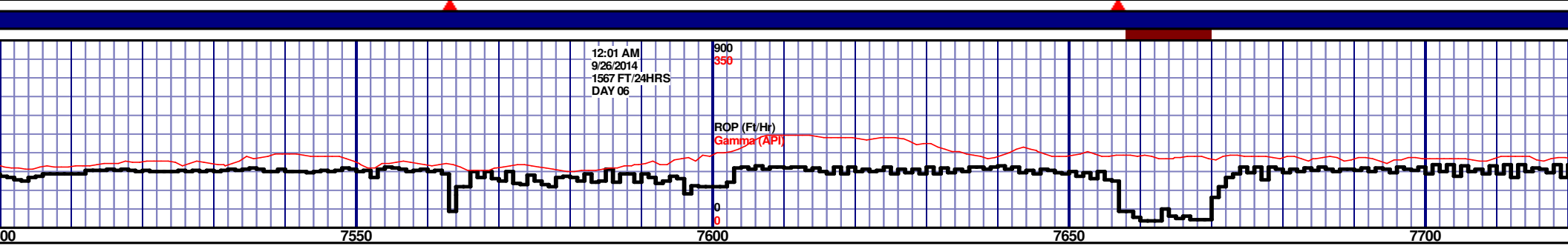
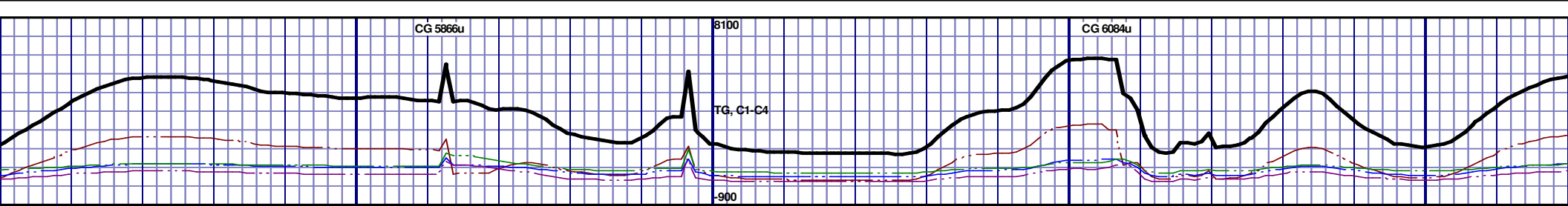




A MARL (6840' MD - 6870' MD)									
5450 TVD									
5630									
5850									
6840'-6870': MRL: 70% (CaCO3 40%) LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, FREE BENT, 30% FREE CHK, PRED LTGY- SCAT MEDGY, 5% MIN FLOR, IMMED BLUE STRM CUT, YLW RING									
6870'-6900': MRL: 70% (CaCO3 40%) LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 30% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING									
6900'-6930': MRL: 75% (CaCO3 40%) LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 25% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING									
6930'-6960': MRL: 70% (CaCO3 40%) LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 30% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING									
6960'-6990': MRL: 75% (CaCO3 40%) LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, FREE BENT, 25% FREE CHK, PRED LTGY- SCAT MEDGY, 10% MIN FLOR, IMMED BLUE STRM CUT, YLW RING									
6990'-7020': MRL: 80% (CaCO3 45%) LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, FREE BENT, 20% FREE CHK, PRED LTGY- SCAT MEDGY, 5% MIN FLOR, IMMED BLUE STRM CUT, YLW RING									
7020'-7050': MRL: 70% (CaCO3 45%) LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 30% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING									
7050'-7080': MRL: 70% (CaCO3 45%) LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 30% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING									



5450 TVD									
5650									
5850									
MRL: 80% (CaCO3 45%) DRKGY, SOFT TO FREE CALC, SCAT PYRC O CALC, 20% FREE CHK, SCAT MEDGY, NO MIN D BLUE STRM CUT, YLW RING									
7080'-7110': MRL: 80% (CaCO3 45%) LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 20% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING									
7110'-7140': MRL: 80% (CaCO3 45%) LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 20% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING									
7140'-7170': MRL: 85% (CaCO3 45%) LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 15% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING									
7170'-7200': MRL: 75% (CaCO3 45%) LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 25% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING									
7200'-7230': MRL: 80% (CaCO3 45%) LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 20% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING									
7230'-7260': MRL: 80% (CaCO3 45%) LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, TRC FREE BENT, 20% FREE CHK, PRED LTGY- SCAT MEDGY, 10% MIN FLOR, IMMED BLUE STRM CUT, YLW RING									
7260'-7290': MRL: 80% (C LTGY- MEDDRKGY, SOF BRITTLE, FREE CALC, S LAMN, IMBD CALC, 20% PRED LTGY- SCAT MED FLOR, IMMED BLUE STR RING									



5450 TVD									
5630									
5850									
7500'-7530': CHK: 60% (CaCO3 70%) PRED LTGY- MEDGY - TR GYSHBLK, BLKY TO SUBBLKY, FXLN TO CHLKY, SFT TO FRM, IMBD CALC, SCAT FREE PYR, 40% FREE MARL, MOD GYSHBLK STN, 10% MIN FLOR, IMMED BLUE STRM CUT, YLW RING									
7530'-7560': MRL: 55% (CaCO3 45%) LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 45% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING									
7560'-7590': MRL: 65% (CaCO3 45%) LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 35% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING									
7590'-7620': MRL: 70% (CaCO3 45%) LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 30% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING									
7620'-7650': MRL: 90% (CaCO3 45%) LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 10% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING									
7650'-7680': MRL: 70% (CaCO3 45%) LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 30% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING									
7680'-7710': MRL: 75% (CaCO3 45%) LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 25% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING									
7710'-7740': MRL: 75% (CaCO3 45%) LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 25% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING									

CL 1100
CAL 80
H2O 85.0
OIL 3.0
LGS 29.69

GELS 3/11/17
PV 13
YP 8
CK 1/0
SOL 11.8

CG 4042u

CG 4571u

RA

CG 4490u

TG, C1-C4

WOB 10.4K
PP 2689
RPM 80
SPM 067

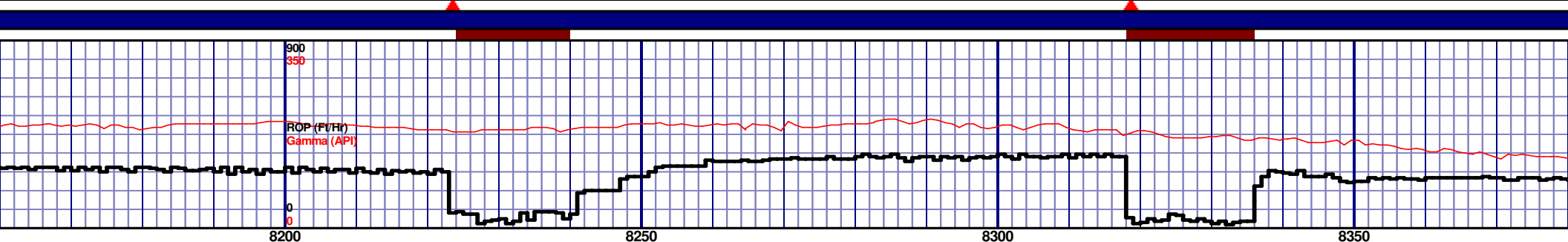
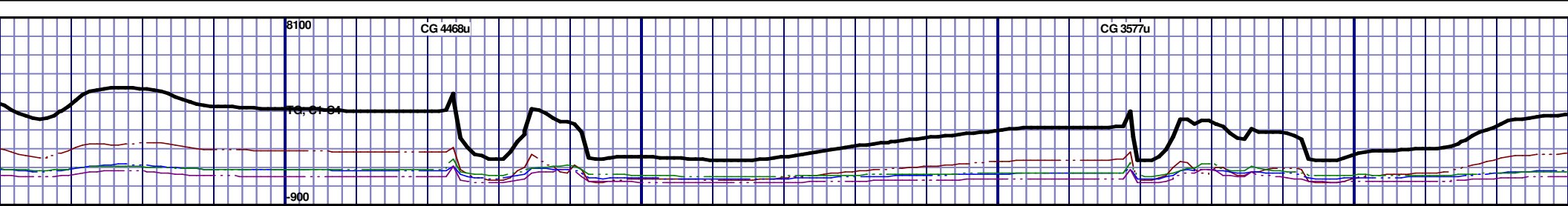
ROP (Ft/Hr)
Gamma (API)

NIORARA A MARL (8040' MD - 8070' MD)

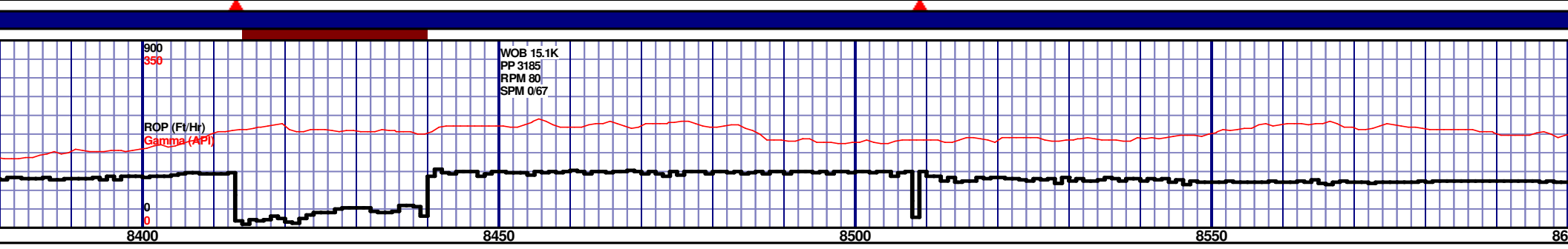
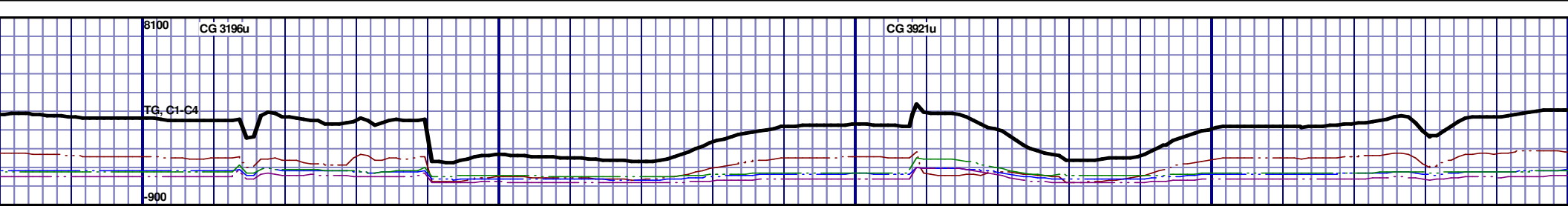
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INC 88.21 AZ 89.47
VS 2619.28

MD 8064 TVD 5647.02
INC 88.07 AZ 87.09
VS 2913.4

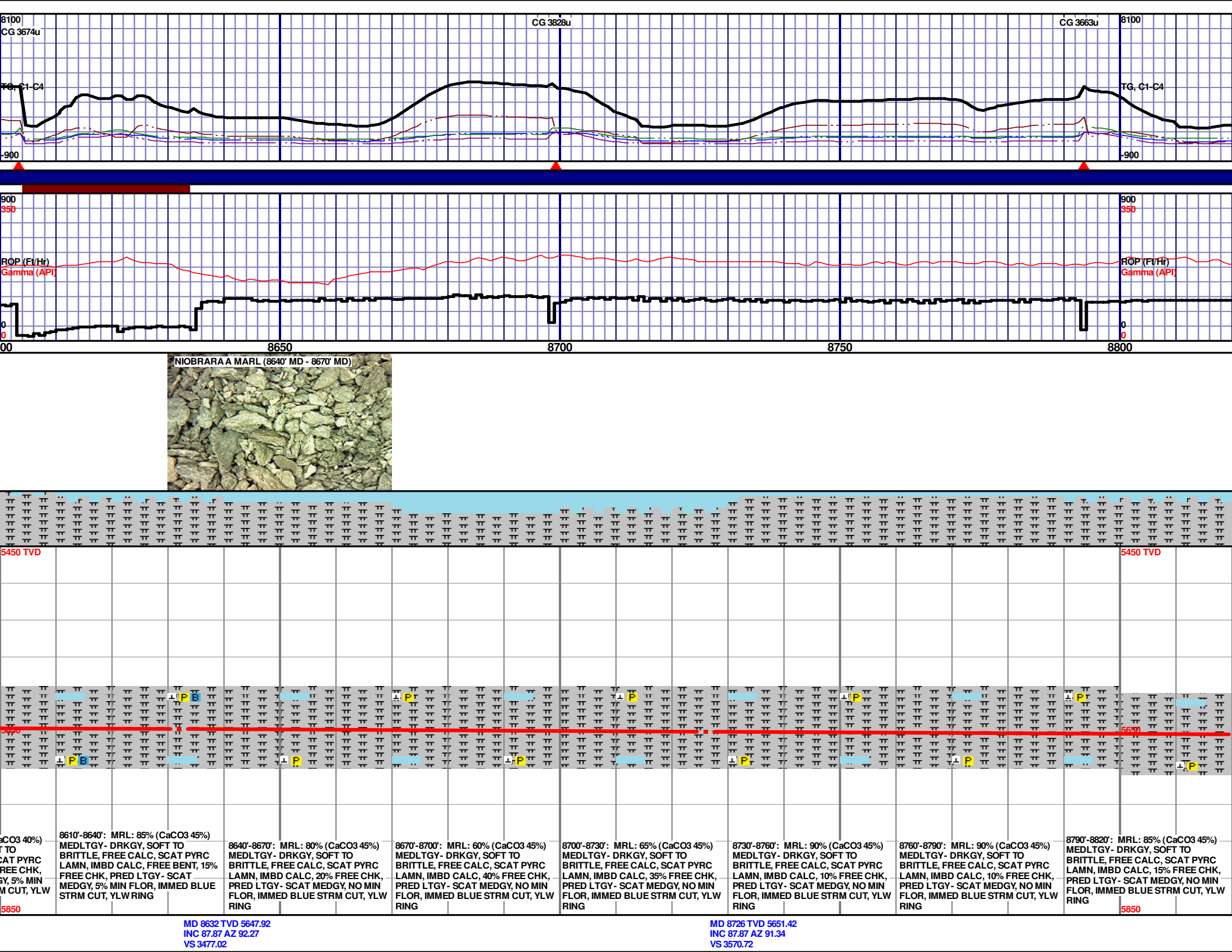
Interval (MD)	MRL (%)	Description
7950'-7980'	60% (CaCO ₃ 45%)	LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 40% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING
7980'-8010'	80% (CaCO ₃ 45%)	LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 20% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING
8010'-8040'	90% (CaCO ₃ 45%)	LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 10% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING
8040'-8070'	90% (CaCO ₃ 45%)	LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 10% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING
8070'-8100'	80% (CaCO ₃ 45%)	LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 20% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING
8100'-8130'	80% (CaCO ₃ 45%)	LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 20% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING
8130'-8160'	90% (CaCO ₃ 45%)	LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 10% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING

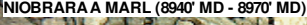


8160'-8190': MRL: 75% (CaCO3 45%) LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 25% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING	8190'-8220': MRL: 85% (CaCO3 45%) LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 15% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING	8220'-8250': MRL: 90% (CaCO3 40%) LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 10% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING	8250'-8280': MRL: 90% (CaCO3 40%) LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 10% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING	8280'-8310': MRL: 95% (CaCO3 40%) LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 5% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING	8310'-8340': MRL: 80% (CaCO3 45%) LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 20% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING	8340'-8370': MRL: 70% (CaCO3 45%) LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 30% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING	8370'-8400': MRL: 70% (CaCO3 45%) LTGY- MEDDRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 30% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING
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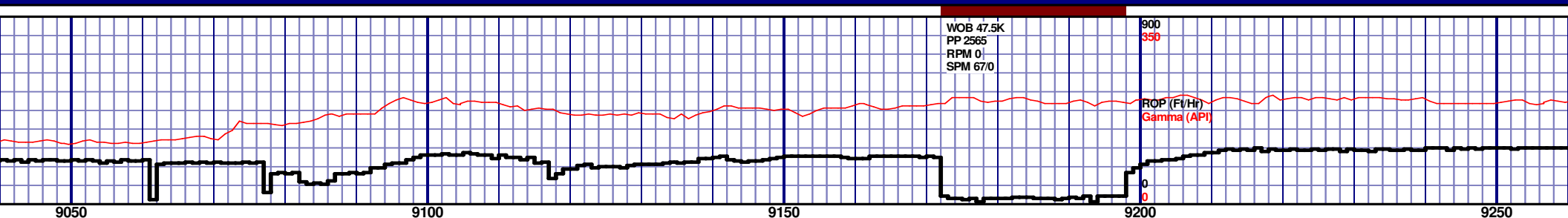
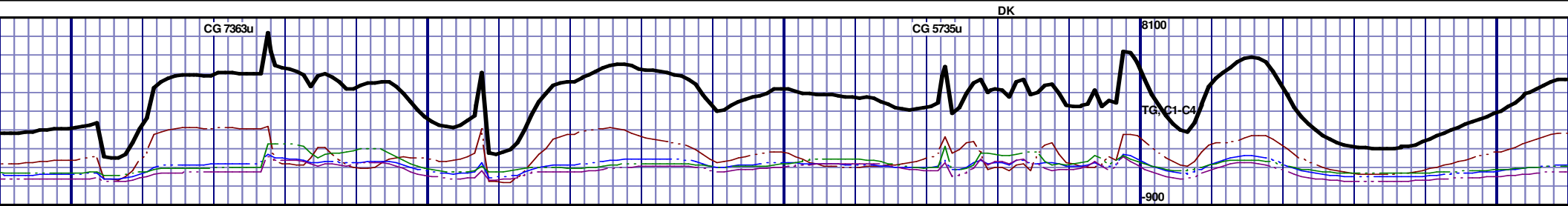


8400									
8450									
8500									
8550									
8600									
8450 TVD									
8550									
8400'-8430': MRL: 60% (CaCO3 45%) LTGY- MEDDRKGY, SOFT TO BRITTLE, SCAT PYRC LAMN, IMBD BENT, 45% FREE CHK, SCAT MEDGY, 5% MIN D BLUE STRM CUT, YLW RING									
8430'-8460': MRL: 80% (CaCO3 40%) MEDLTGY- DRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, FREE BENT, 20% FREE CHK, PRED LTGY- SCAT MEDGY, 5% MIN FLOR, IMMED BLUE STRM CUT, YLW RING									
8460'-8490': MRL: 75% (CaCO3 40%) MEDLTGY- DRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, FREE BENT, 25% FREE CHK, PRED LTGY- SCAT MEDGY, 5% MIN FLOR, IMMED BLUE STRM CUT, YLW RING									
8490'-8520': MRL: 80% (CaCO3 40%) MEDLTGY- DRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, FREE BENT, 20% FREE CHK, PRED LTGY- SCAT MEDGY, 5% MIN FLOR, IMMED BLUE STRM CUT, YLW RING									
8520'-8550': MRL: 90% (CaCO3 40%) MEDLTGY- DRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 10% FREE CHK, PRED LTGY- SCAT MEDGY, 5% MIN FLOR, IMMED BLUE STRM CUT, YLW RING									
8550'-8580': MRL: 90% (CaCO3 40%) MEDLTGY- DRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 10% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING									
8580'-8610': MRL: 95% (CaCO3 40%) MEDLTGY- DRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 5% FREE CHK, PRED LTGY- SCAT MEDGY, 5% MIN FLOR, IMMED BLUE STRM CUT, YLW RING									





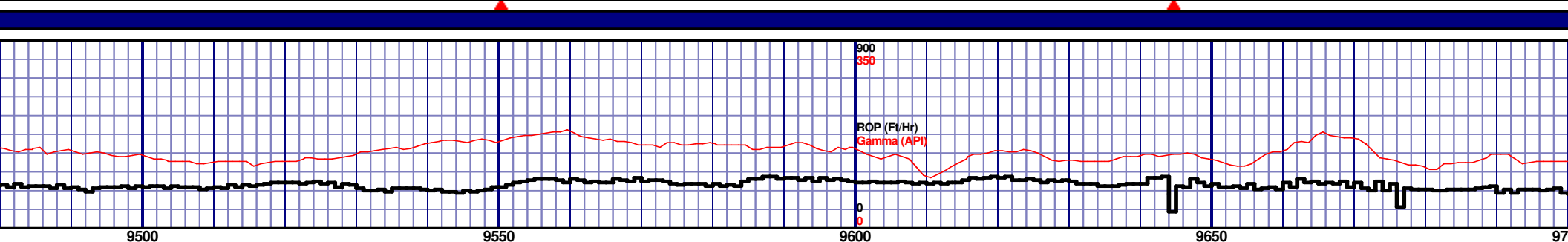
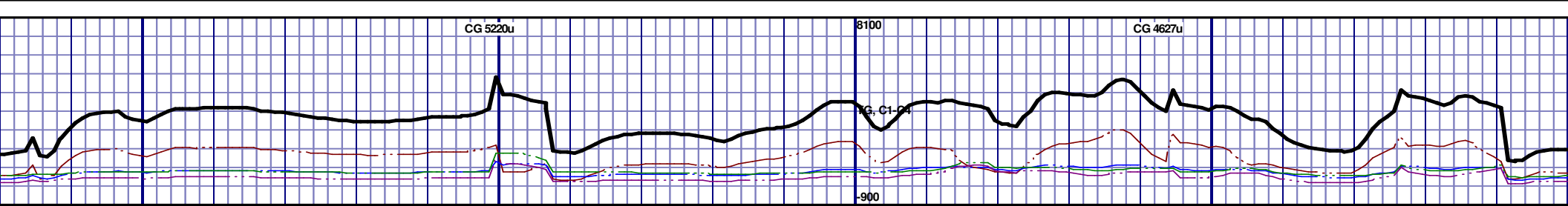
RING
5850



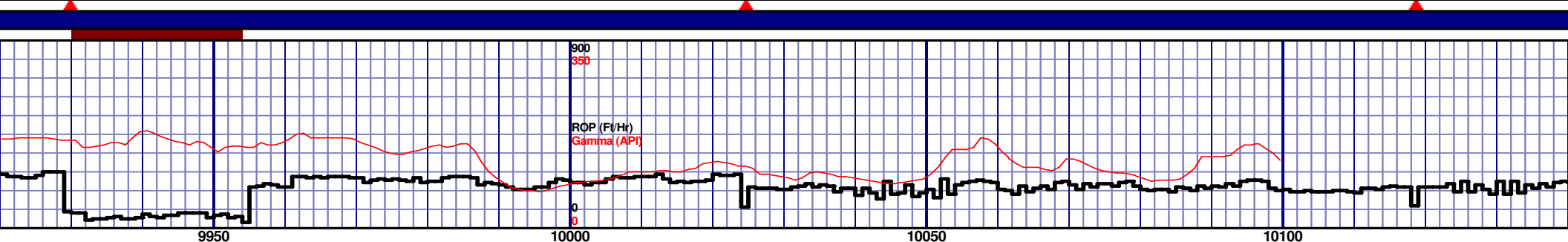
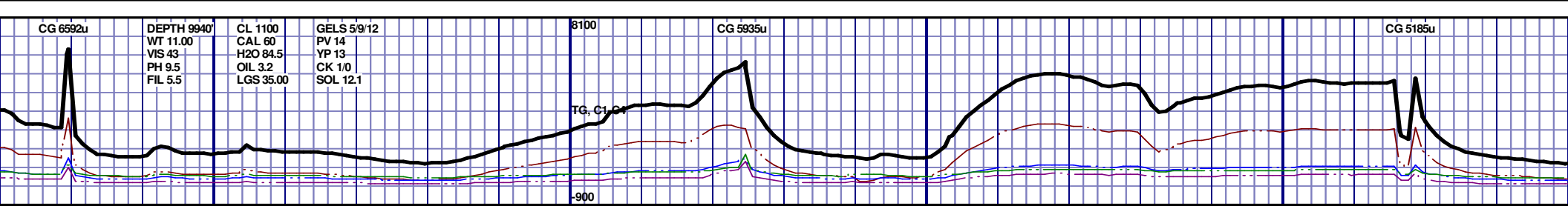
MRL: 85% (CaCO3 40%) DRKGY, SOFT TO FREE CALC, SCAT PYRC CALC, 15% FREE CHK, SCAT MEDGY, NO MIN D BLUE STRM CUT, YLW	9060'-9090': CHK: 55% (CaCO3 60%) LTGY- MEDDRKGY, BLKYO SUBBLKY, FXLN TO CHLKY, SFT TO FRM, IMBD CALC, SCAT FREE PYR, 45% FREE MARL, MOD GYSHBLK STN, NO MIN FLOR, IMMED BLUE STRM CUT, YLWRING	9090'-9120': CHK: 60% (CaCO3 60%) LTGY- MEDDRKGY, BLKYO SUBBLKY, FXLN TO CHLKY, SFT TO FRM, IMBD CALC, SCAT FREE PYR, 40% FREE MARL, MOD GYSHBLK STN, NO MIN FLOR, IMMED BLUE STRM CUT, YLWRING	9120'-9150': MRL: 60% (CaCO3 50%) MEDLTGY- DRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 40% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING	9150'-9180': MRL: 70% (CaCO3 45%) MEDLTGY- DRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 30% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING	9180'-9210': MRL: 80% (CaCO3 45%) MEDLTGY- DRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 20% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING	9210'-9240': MRL: 80% (CaCO3 45%) MEDLTGY- DRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 20% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING	9240'-9270': MRL: 70% (C MEDLTGY- DRKGY, SOF BRITTLE, FREE CALC, SC LAMN, IMBD CALC, 30% PRED LTGY- SCAT MED
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MD 9105 TVD 5662.05
INC 89.52 AZ 88.91
VS 3947.19

MD 9200 TVD 5664.25
INC 87.83 AZ 88.9
VS 4041.47



9480'-9510': MRL: 60% (CaCO3 45%) MEDLTGY- DRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 40% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING	9510'-9540': MRL: 60% (CaCO3 45%) MEDLTGY- DRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, TRC FREE BENT, 40% FREE CHK, PRED LTGY- SCAT MEDGY, 5% MIN FLOR, IMMED BLUE STRM CUT, YLW RING	9540'-9570': MRL: 80% (CaCO3 45%) MEDLTGY- DRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, TRC FREE BENT, 20% FREE CHK, PRED LTGY- SCAT MEDGY, 5% MIN FLOR, IMMED BLUE STRM CUT, YLW RING	9570'-9600': MRL: 80% (CaCO3 45%) MEDLTGY- DRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 20% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING	9600'-9630': MRL: 70% (CaCO3 45%) MEDLTGY- DRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 30% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING	9630'-9660': MRL: 80% (CaCO3 45%) MEDLTGY- DRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, TRC FREE BENT, 20% FREE CHK, PRED LTGY- SCAT MEDGY, 5% MIN FLOR, IMMED BLUE STRM CUT, YLW RING	9660'-9690': MRL: 95% (CaCO3 45%) MEDLTGY- DRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 5% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING	9690'-9720': MRL: 95% (CaCO3 45%) MEDLTGY- DRKGY, SOFT TO BRITTLE, FREE CALC, SCAT PYRC LAMN, IMBD CALC, 5% FREE CHK, PRED LTGY- SCAT MEDGY, NO MIN FLOR, IMMED BLUE STRM CUT, YLW RING
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