



Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: KERR 28N-12HZX
API: 05123389820100
Location: Weld County, CO.
License Number:
Spud Date: 1/3/2015
Surface Coordinates: 576'FSL & 2026'FWL, SEC.13
Region: DJ Basin
Drilling Completed: 1/10/2015
Bottom Hole 460'FNL & 2479'FWL, SEC.12
Coordinates:
Ground Elevation (ft): 4883' K.B. Elevation (ft): 4899'
Logged Interval (ft): 11039' To: 16385' Total Depth (ft): 16385'
Formation: Niobrara
Type of Drilling Fluid: Water Base Mud

Printed by HORIZONTAL.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com






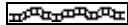



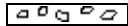









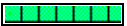

OPERATOR

Company: Anadarko Petroleum Corporation
Address: 1099 18th Street, Suite 1800
Denver, CO 80202-1918





















































GEOLOGIST

Name: Ben Thompson / Kevin Bettenhausen
 Company: Great Divide Consulting, Inc.
 Address: 11990 North Grant Street, Suite 220
 Northglenn, CO 80233
















ROCK TYPES

	Anhy		Coal		Lmst		Shale		Till
	Bent		Congl		Meta		Shcol		
	Brec		Dol		Mrleb59		Shgy		
	Cht		Gyp		Mrlst		Sltst		
	Clyst		Igne		Salt		Ss		

ACCESSORIES

MINERAL			FOSSIL						
	Anhy		Gyp		Algae		Ostra		Sltstrg
	Arggrn		Hvymin		Amph		Pelec		Ssstrg
	Arg		Kaol		Belm		Pellet		
	Bent		Marl		Bioclst		Pisolite		
	Bit		Minxl		Brach		Plant		
	Brecfrag		Nodule		Bryozoa		Strom		
	Calc		Phos		Cephal				
	Carb		Pyr		Coral				
	Chtdk		Salt		Crin				
	Chtlt		Sandy		Echin				
	Dol		Silt		Fish				
	Feldspar		Sil		Foram				
	Ferrpel		Sulphur		Fossil				
	Ferr		Tuff		Gastro				
	Glau				Oolite				

OTHER SYMBOLS

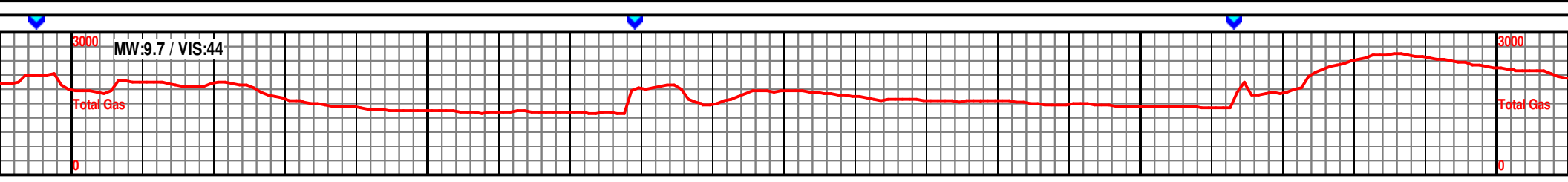
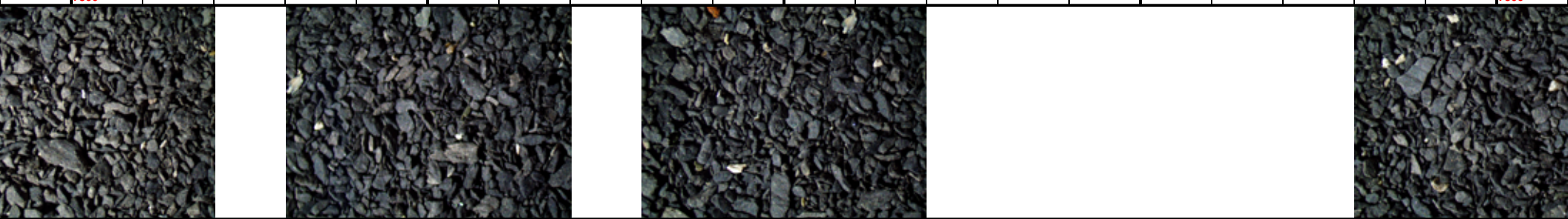
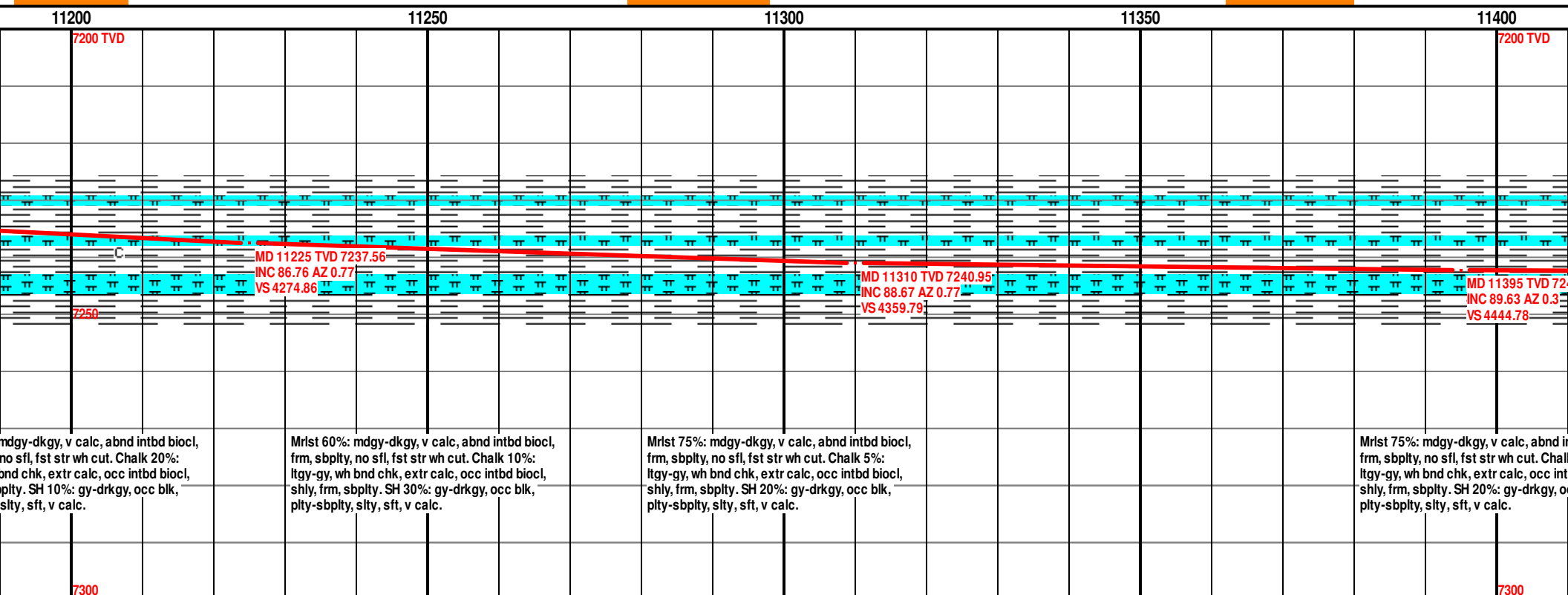
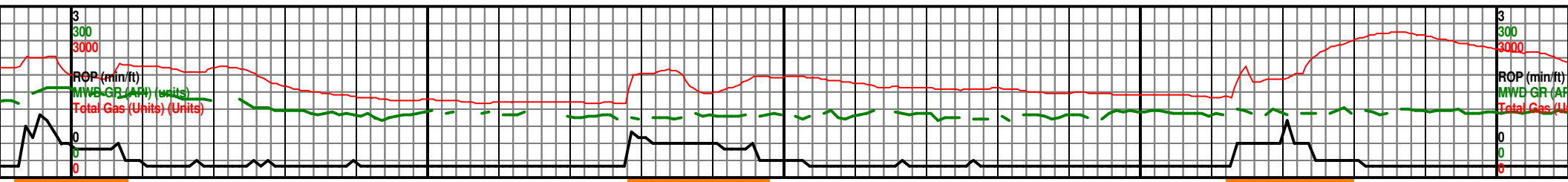
POROSITY			ROUNDING				
	Earthy		Vuggy		Rounded		Spotted
	Fenest				Subrnd		Ques
	Fracture				Subang		Dead
	Inter				Angular		
	Moldic						
	Organic						
	Pinpoint						

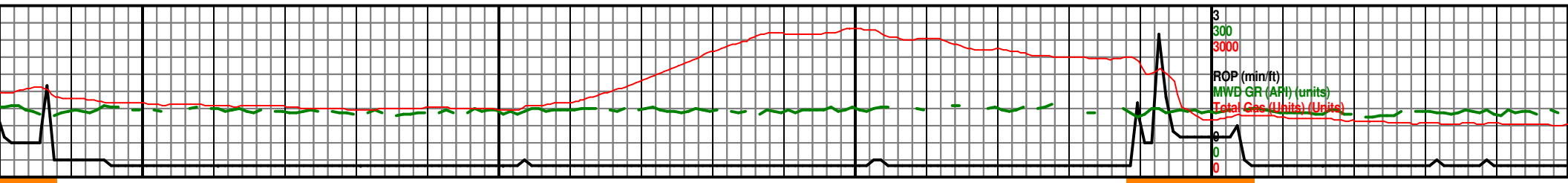
SORTING	
	Well
	Moderate
	Poor

OIL SHOW	
	Even

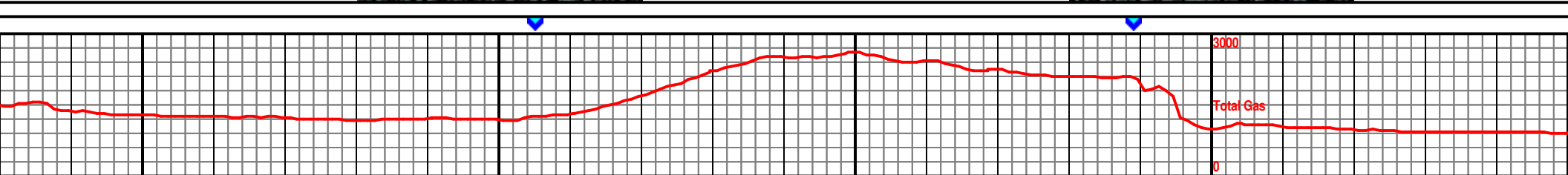
INTERVAL	
	Core
	Dst

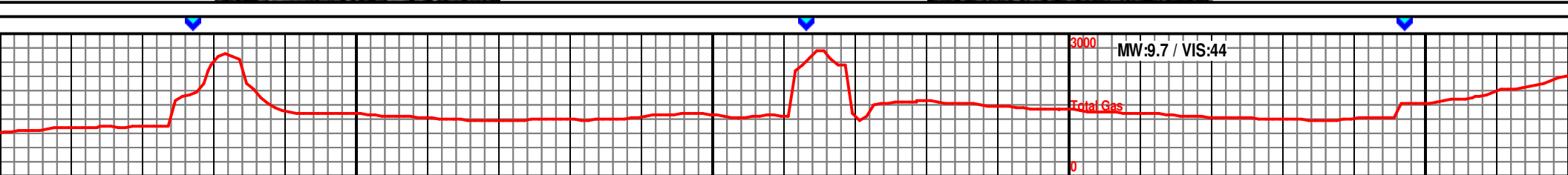
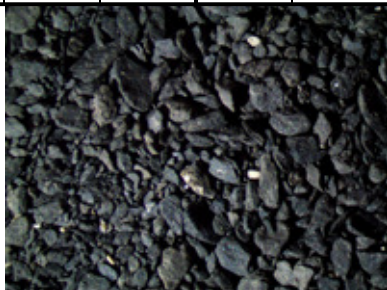
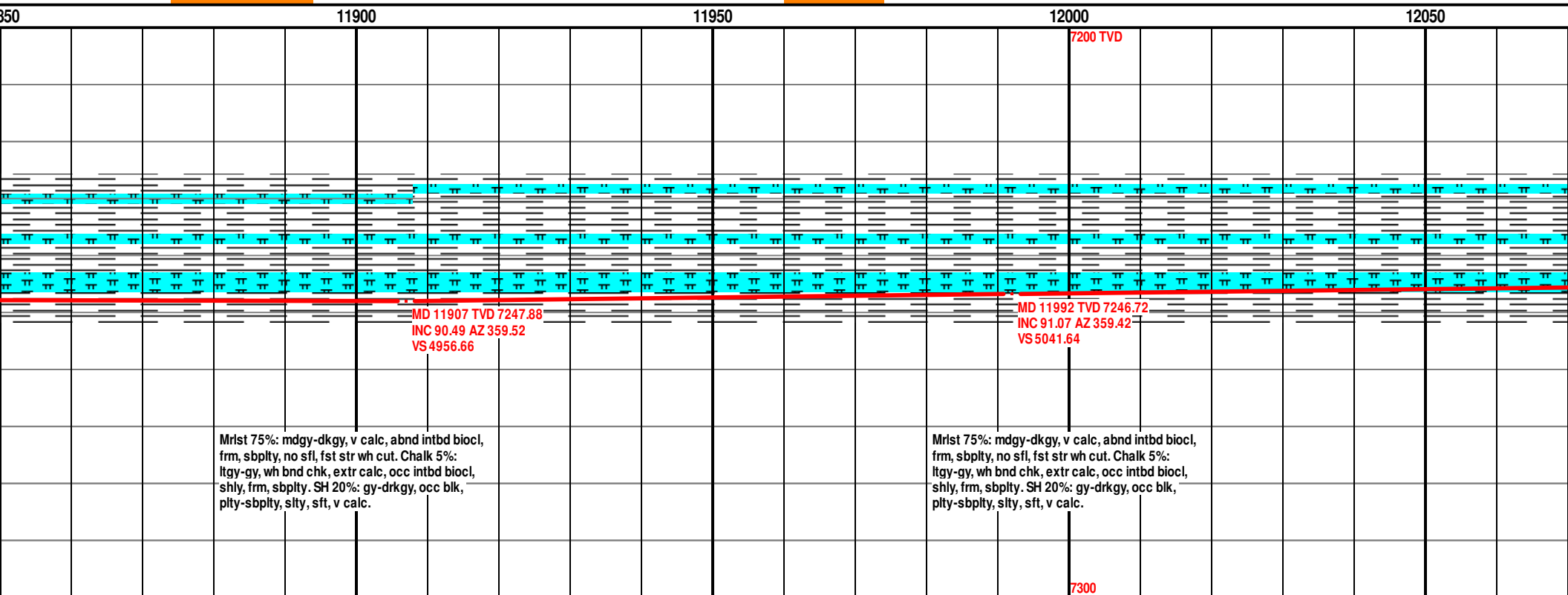
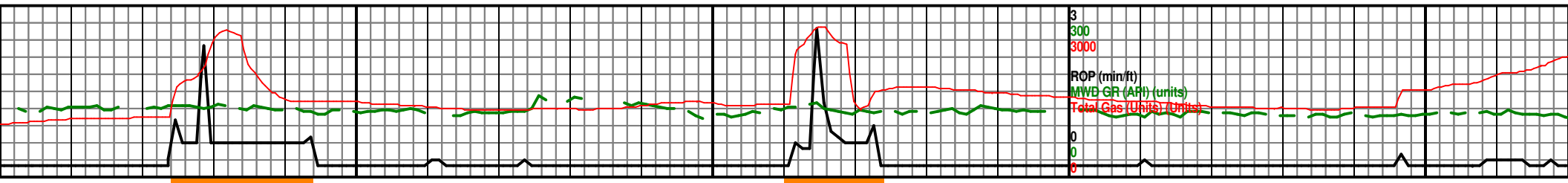
EVENT	
	Rft
	Sidewall

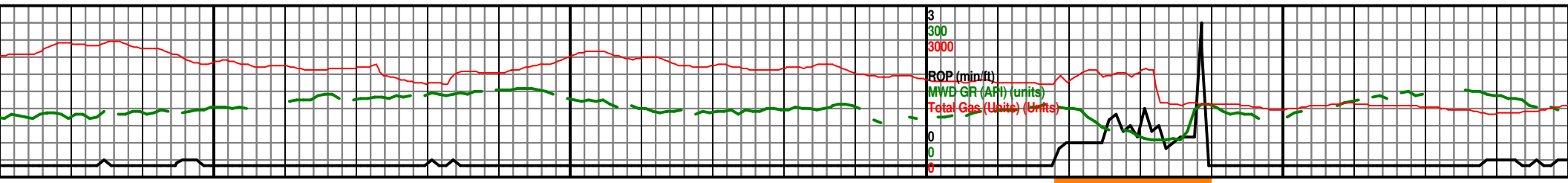


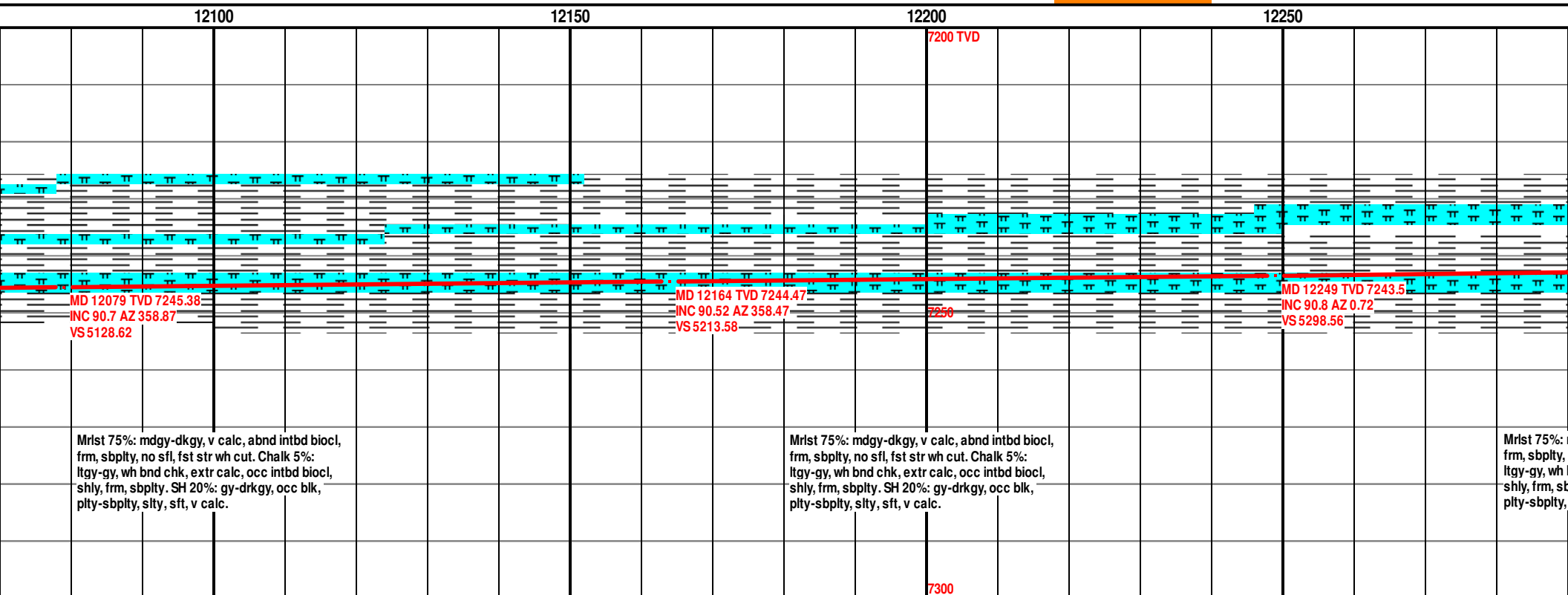


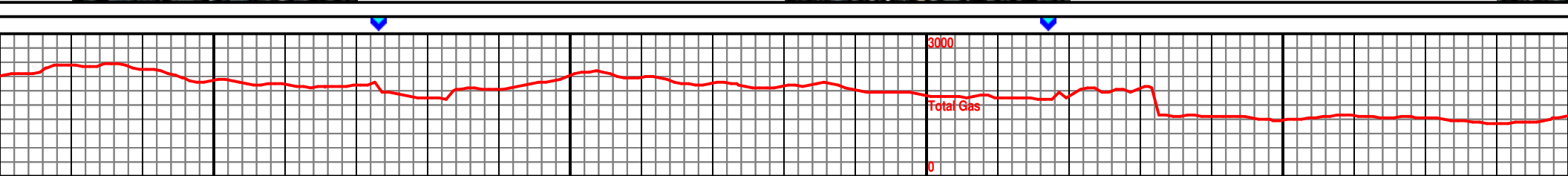
11650	11700	11750	11800	11850
7200 TVD				
MD 11650 TVD 7244.13 INC 88.98 AZ 359.98 VS 4699.7				
MD 11735 TVD 7245.96 INC 88.55 AZ 0.12 VS 4784.68				
MD 11820 TVD 7247.64 INC 89.19 AZ 359.98 VS 4869.66				
Mrlst 75%: mdgy-dkgy, v calc, abnd intbd biocl, frm, sbpity, no sfl, fst str wh cut. Chalk 5%: ltgy-gy, wh bnd chk, extr calc, occ intbd biocl, shly, frm, sbpity. SH 20%: gy-drkgy, occ blk, plty-sbpity, slty, sft, v calc.				
7300				

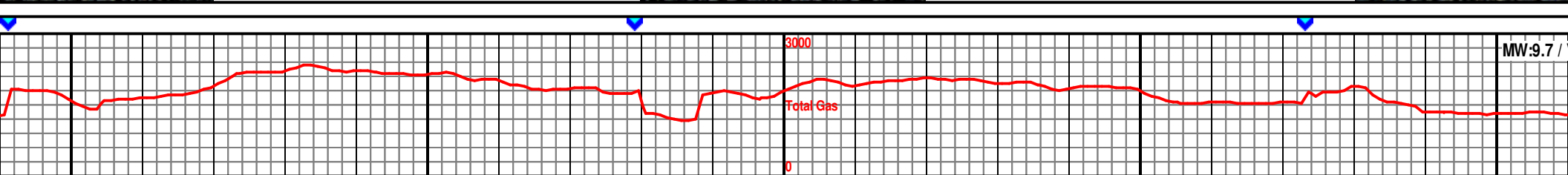
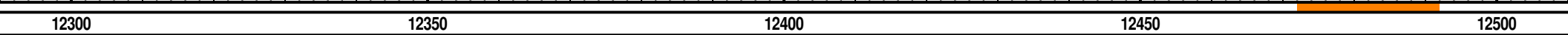


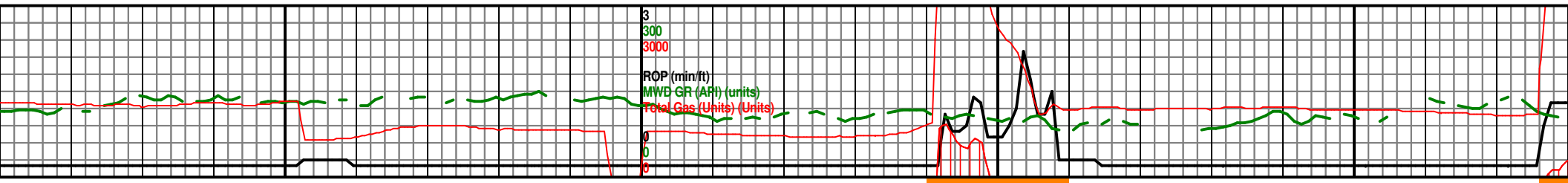




12100										12150										12200										12250																			
																																																	
MD 12079 TVD 7245.38 INC 90.7 AZ 358.87 VS 5128.62										MD 12164 TVD 7244.47 INC 90.52 AZ 358.47 VS 5213.58										7200 TVD 7250										MD 12249 TVD 7243.5 INC 90.8 AZ 0.72 VS 5298.56																			
Mrlst 75%: mdgy-dkgy, v calc, abnd intbd biocl, frm, sbply, no sfl, fst str wh cut. Chalk 5%: ltgy-gy, wh bnd chk, extr calc, occ intbd biocl, shly, frm, sbply. SH 20%: gy-drkgy, occ blk, plty-sbply, slty, sft, v calc.										Mrlst 75%: mdgy-dkgy, v calc, abnd intbd biocl, frm, sbply, no sfl, fst str wh cut. Chalk 5%: ltgy-gy, wh bnd chk, extr calc, occ intbd biocl, shly, frm, sbply. SH 20%: gy-drkgy, occ blk, plty-sbply, slty, sft, v calc.										7300										Mrlst 75%: frm, sbply, ltgy-gy, wh shly, frm, sbply, plty-sbply,																			







12550

12600

12650

12700

7200 TVD

504 TVD 7239.83

.72 AZ 2

3.52

MD 12589 TVD 7239.76

INC 90.37 AZ 2.44

VS 5638.47

7250

MD 12674 TVD 7239.52

INC 89.96 AZ 2.1

VS 5723.41

intbd biocl,
k 5%:
bd biocl,
blk,

Mrlst 80%: mdgy-dkgy, v calc, abnd intbd biocl,
frm, sbpity, no sfl, fst str wh cut. Chalk 10%:
ltgy-gy, wh bnd chk, extr calc, occ intbd biocl,
shly, frm, sbpity. SH 10%: gy-drkgy, occ blk,
pity-sbpity, slty, sft, v calc. Bent. tr

Mrlst 50%: mdgy-dkgy, v calc, abnd intbd biocl,
frm, sbpity, no sfl, fst str wh cut. Chalk 40%:
ltgy-gy, wh bnd chk, extr calc, occ intbd biocl,
shly, frm, sbpity. SH 10%: gy-drkgy, occ blk,
pity-sbpity, slty, sft, v calc. Bent. tr

7300

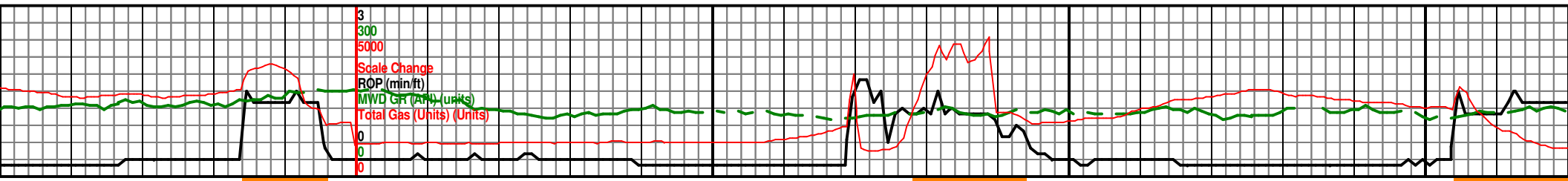


VIS:44

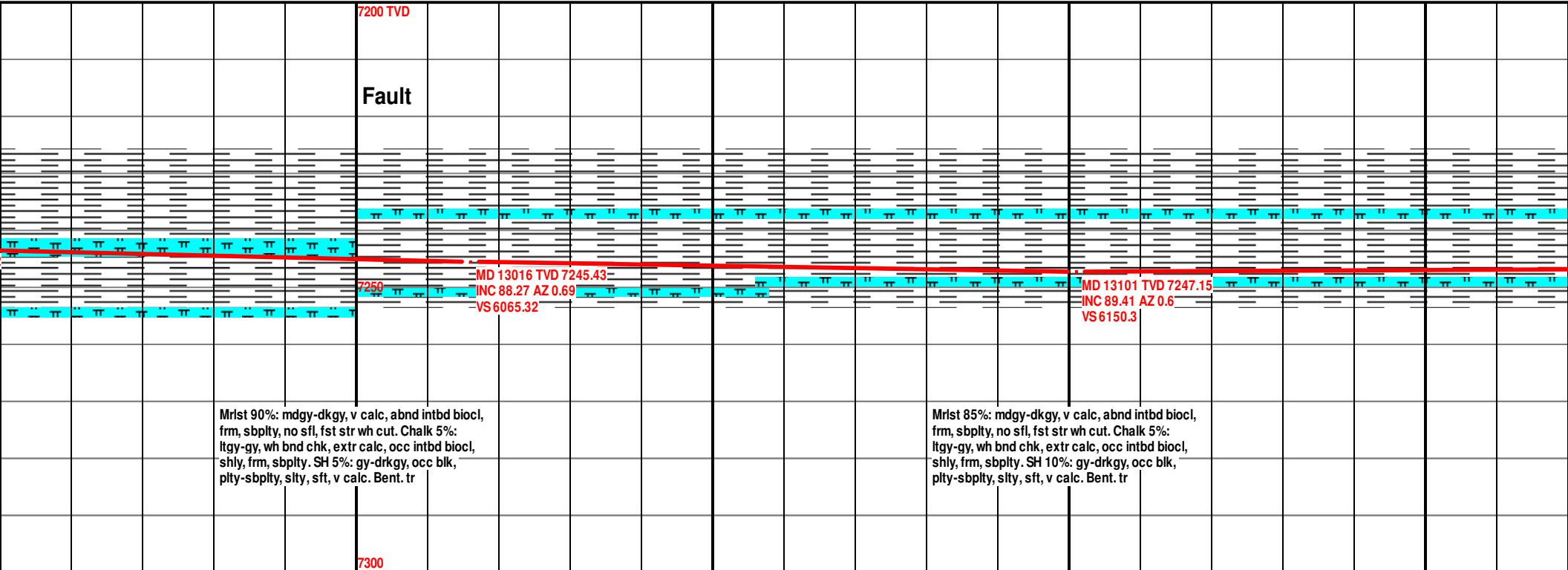
3000

Total Gas

0

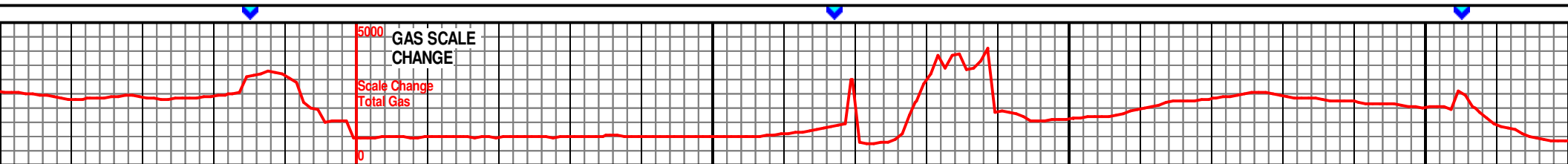
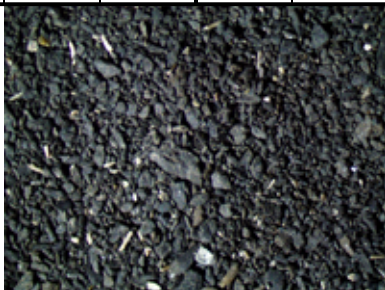


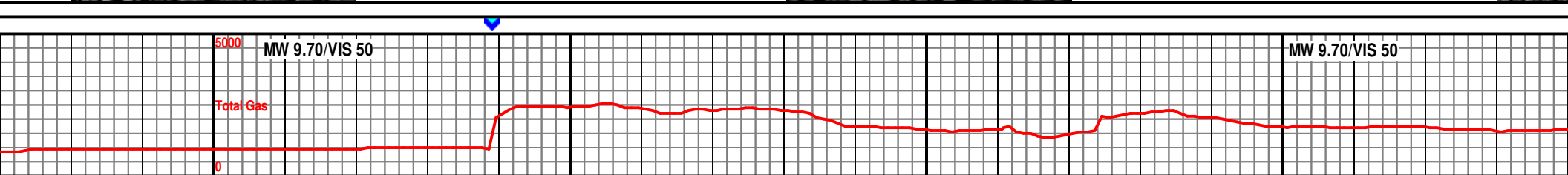
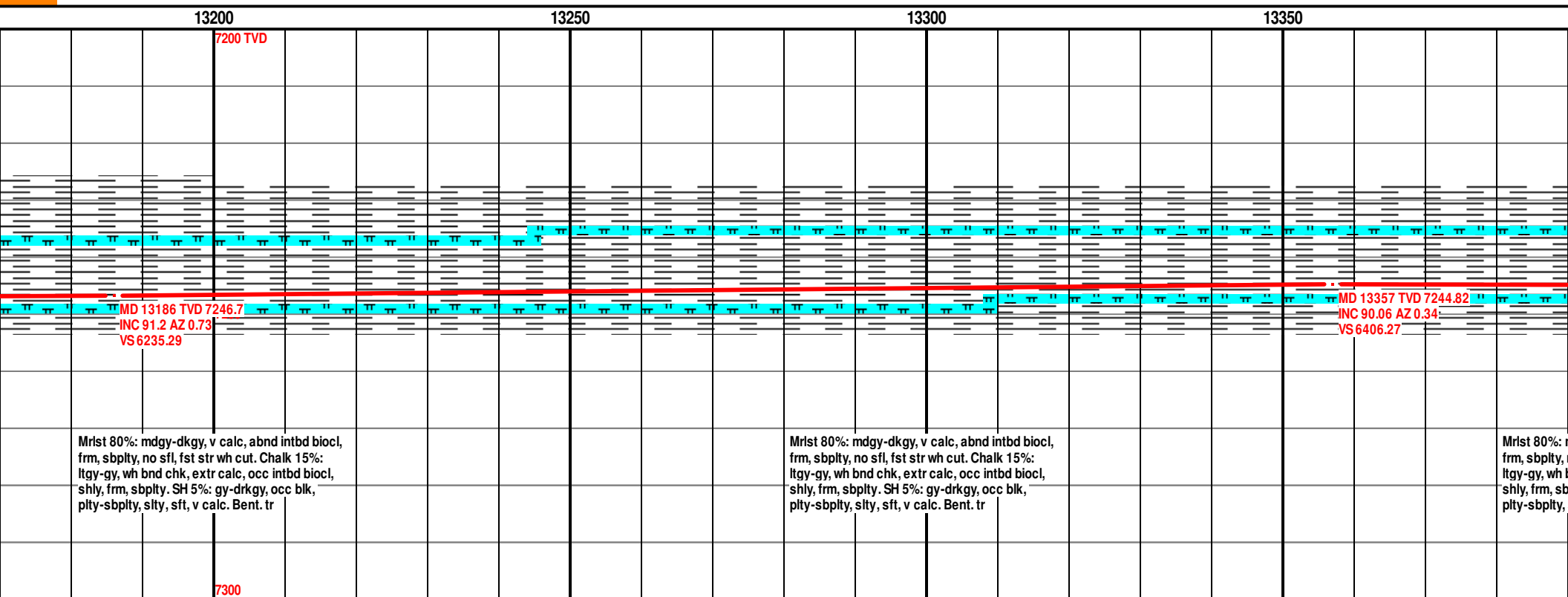
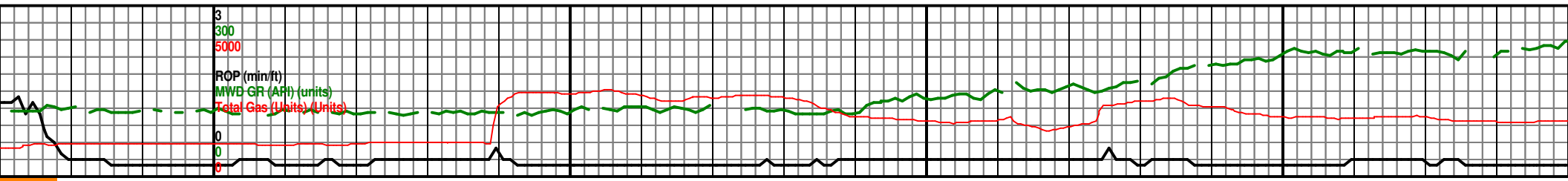
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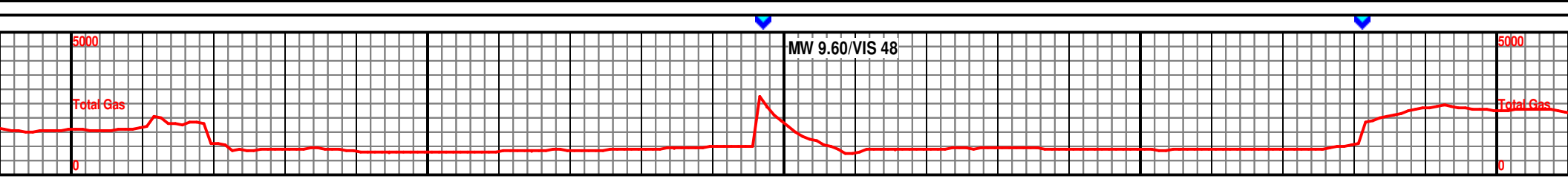
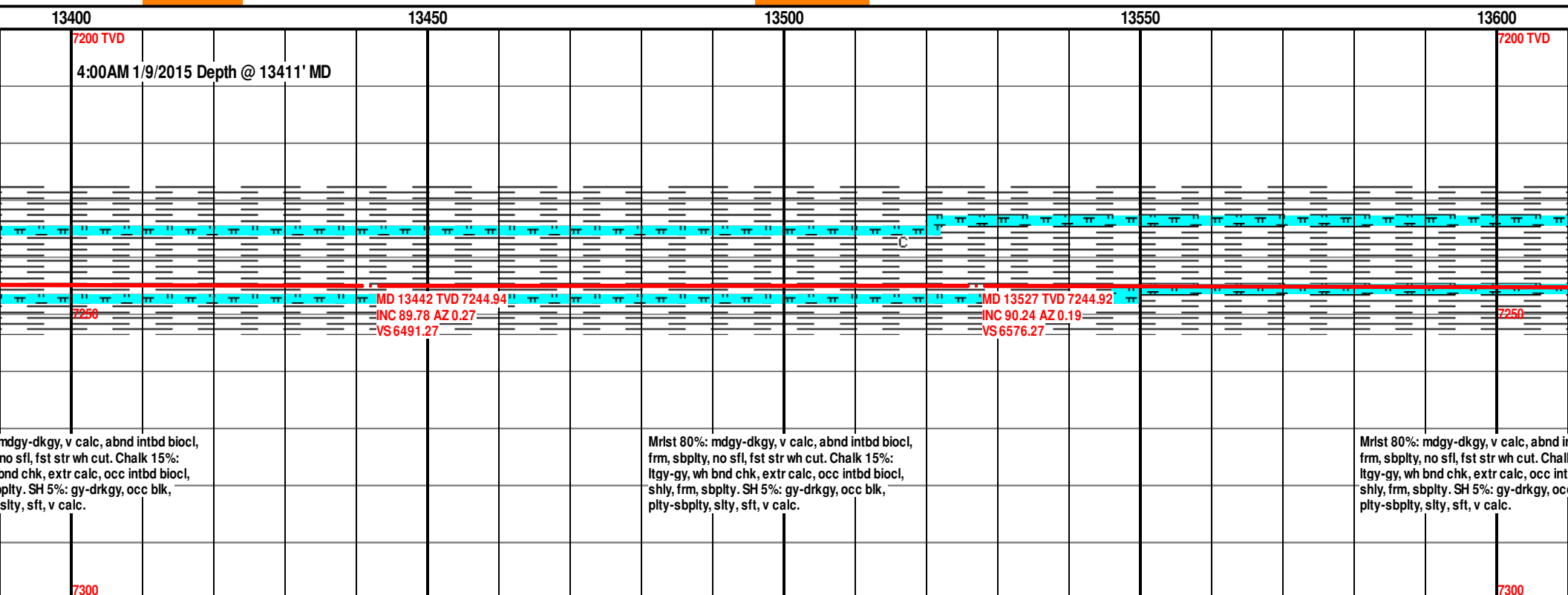
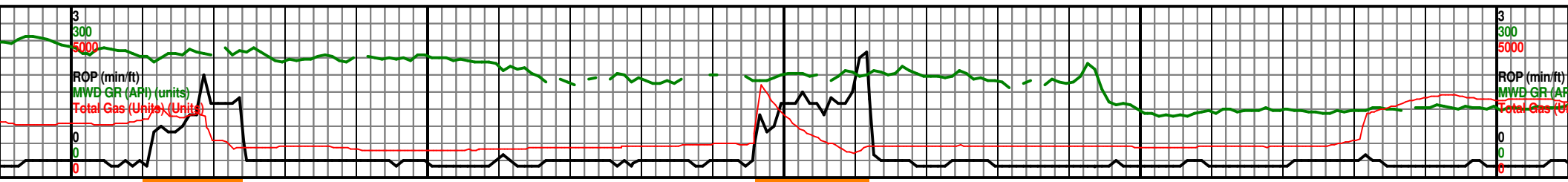


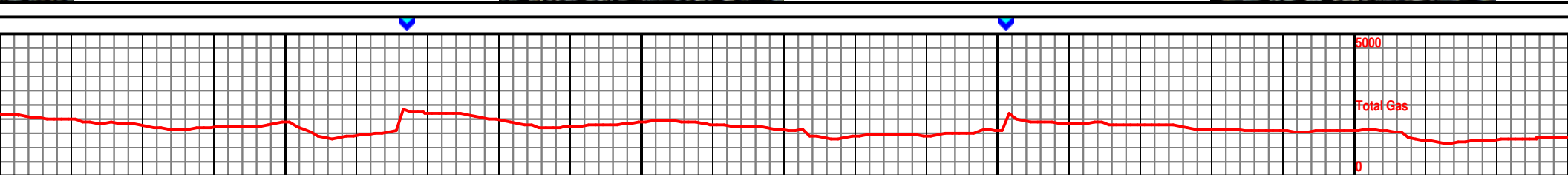
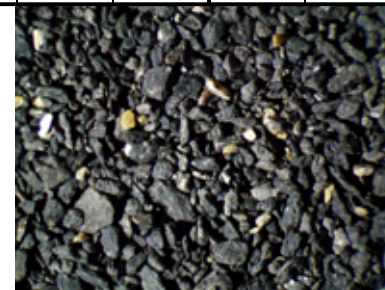
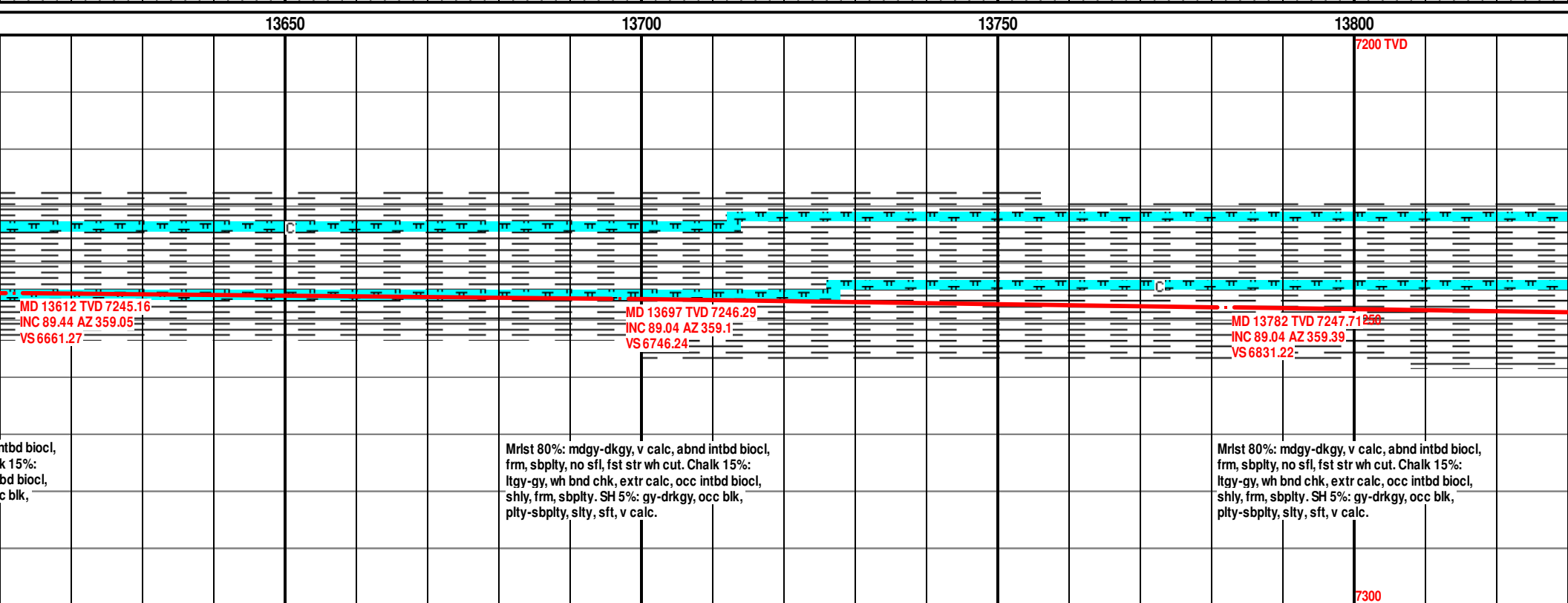
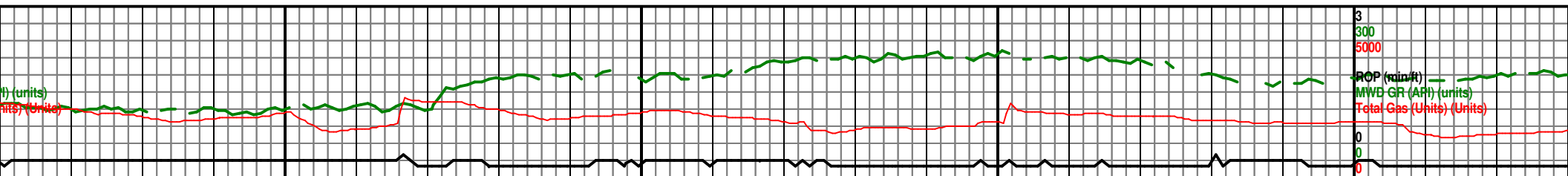
Mrlst 90%: mdgy-dkgy, v calc, abnd intbd biocl, frm, sbpity, no sfl, fst str wh cut. Chalk 5%: ltgy-gy, wh bnd chk, extr calc, occ intbd biocl, shly, frm, sbpity. SH 5%: gy-drkgy, occ blk, plty-sbpity, slty, sft, v calc. Bent. tr

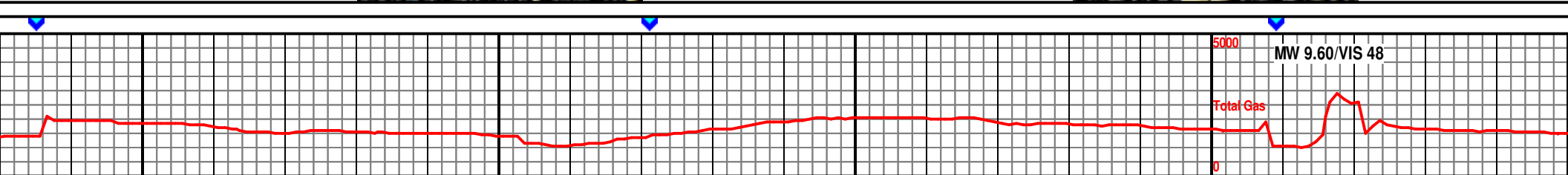
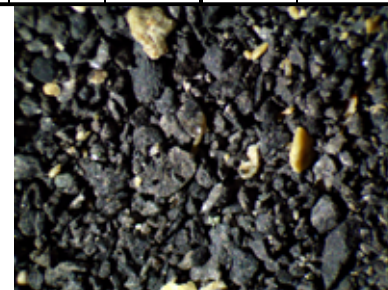
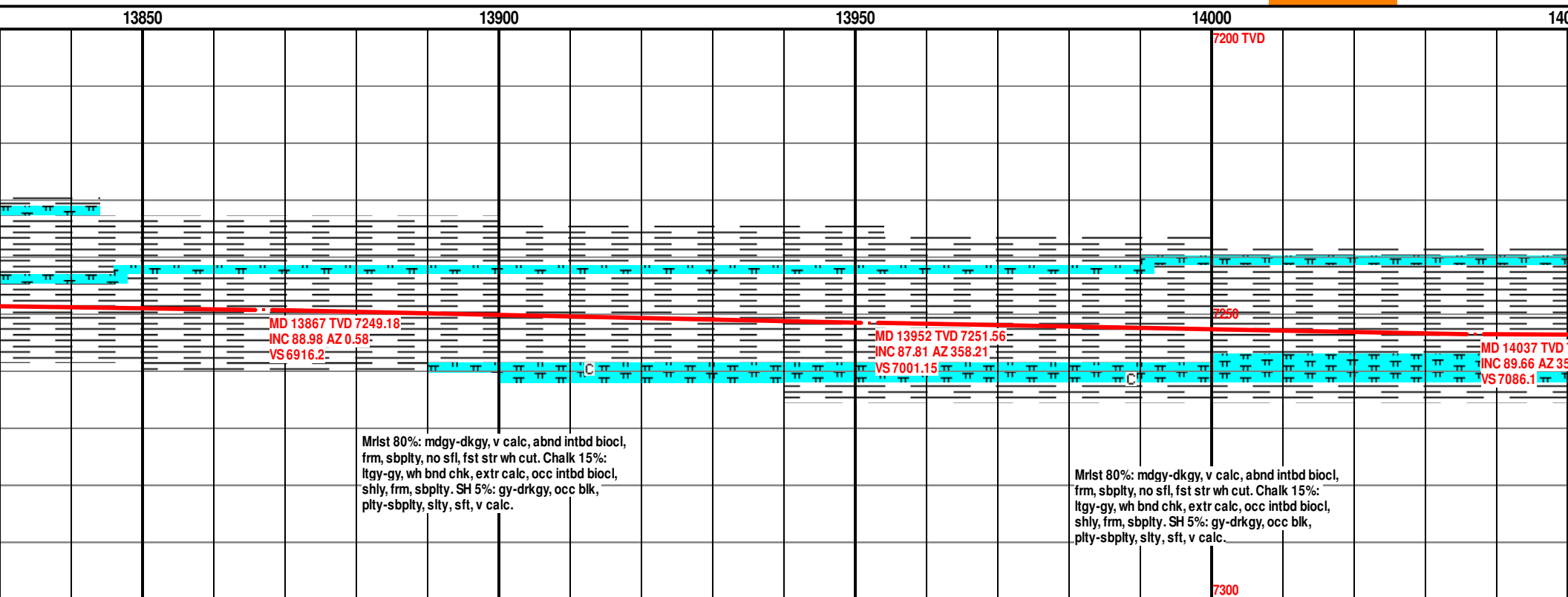
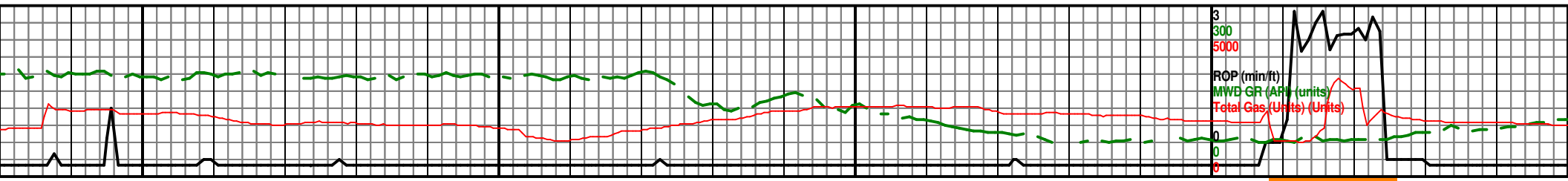
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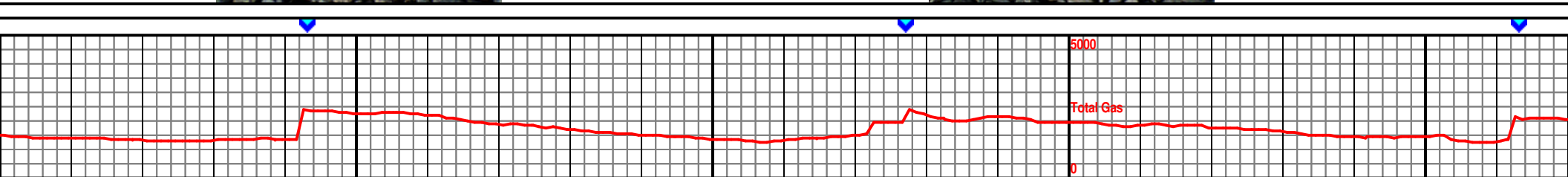
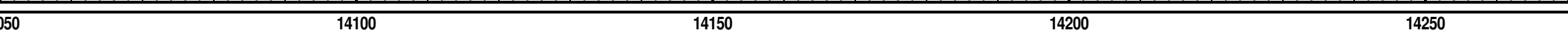


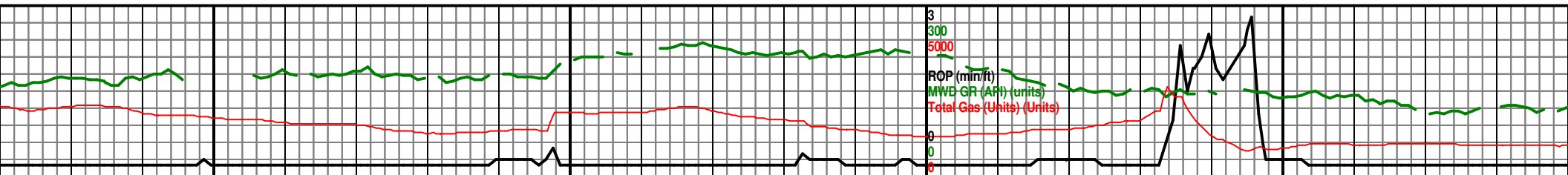




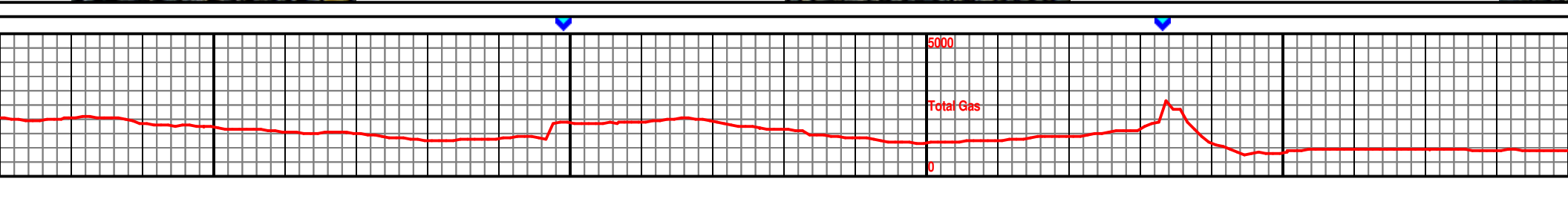
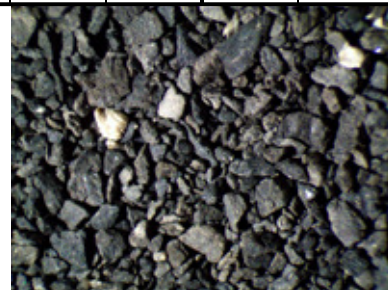
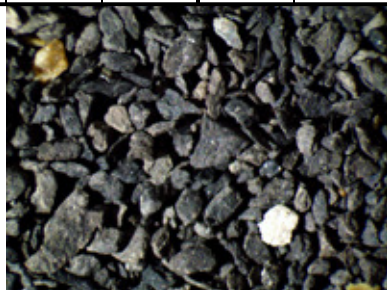


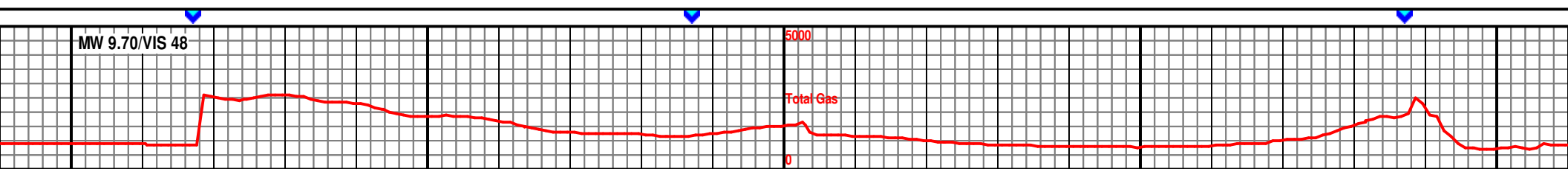
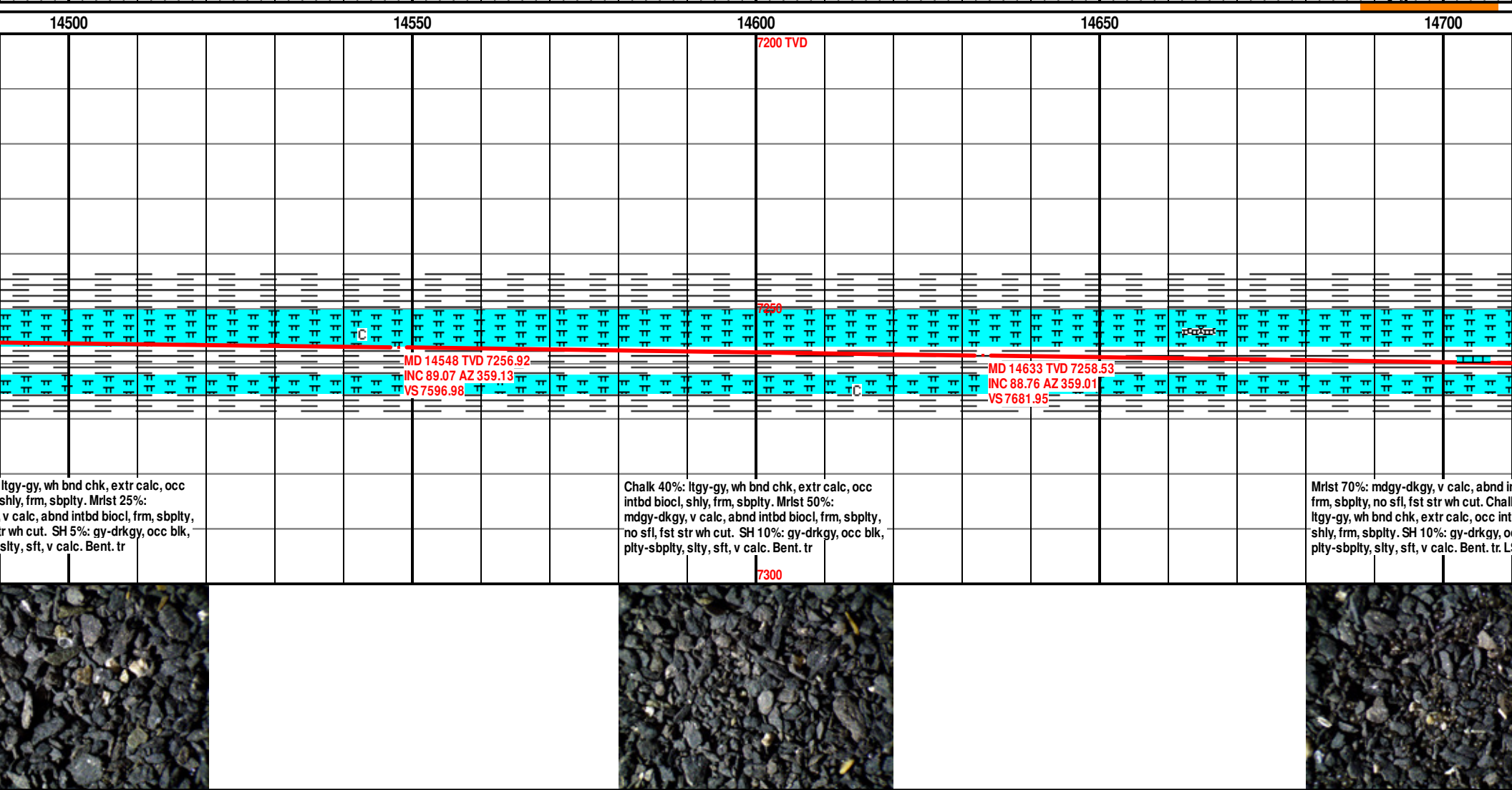




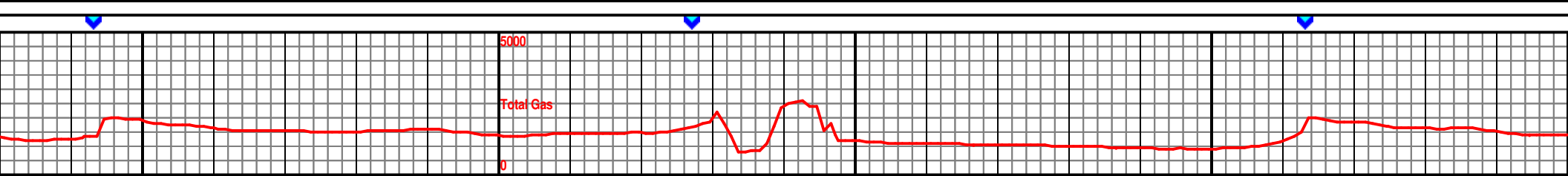
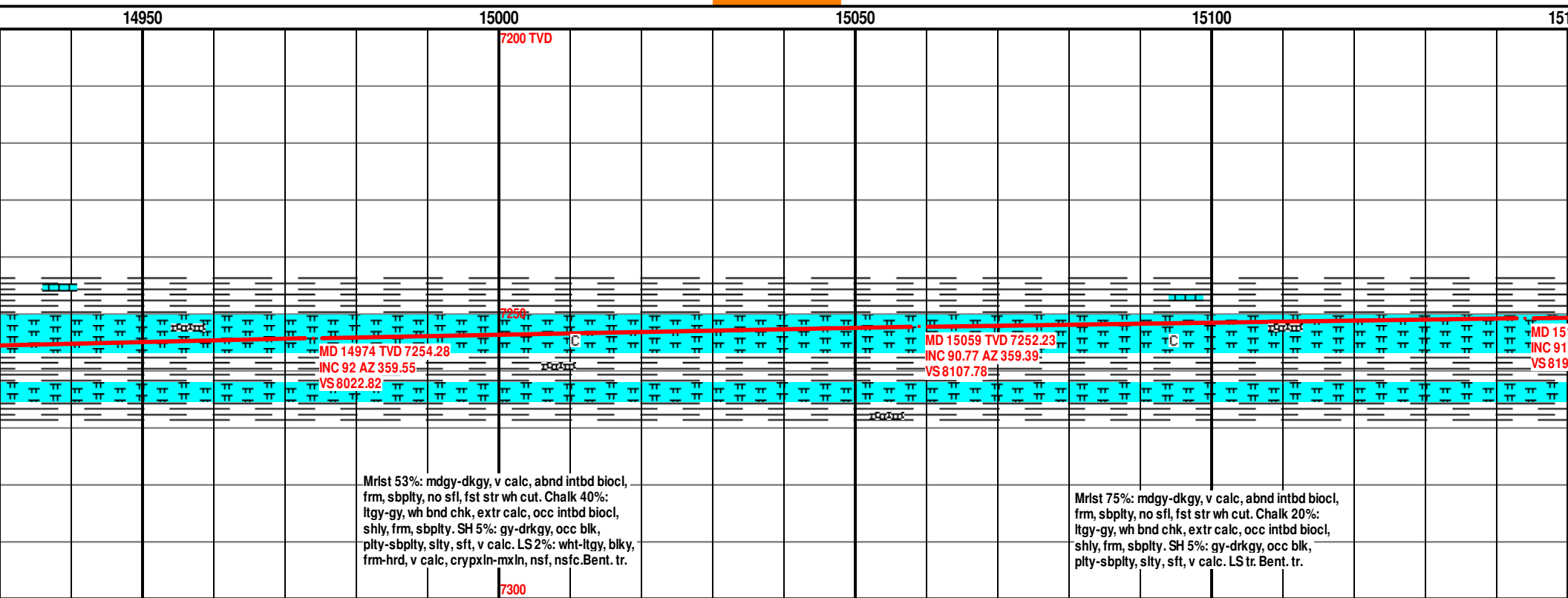
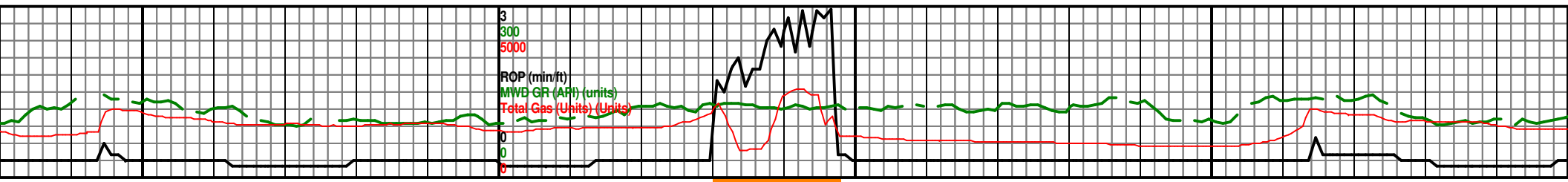


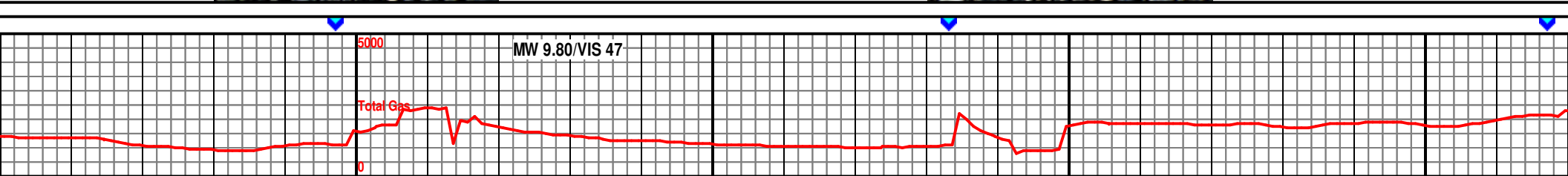
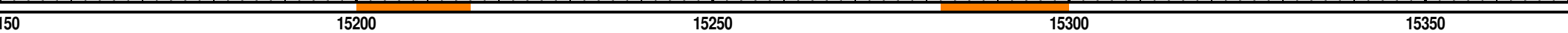
14300										14350										14400										14450									
																				7200 TVD																			
																				7256																			
MD 14292 TVD 7254.73										MD 14378 TVD 7254.99										MD 14463 TVD 7255.66																			
INC 89.78 AZ 358.94										INC 89.87 AZ 358.68										INC 89.23 AZ 359.92																			
VS 7341.04										VS 7427.01										VS 7512																			
Chalk 70%: ltgy-gy, wh bnd chk, extr calc, occ intbd biocl, shly, frm, sbply. Mrlst 25%: mdgy-dkgy, v calc, abnd intbd biocl, frm, sbply, no sfl, fst str wh cut. SH 5%: gy-drkgy, occ blk, plty-sbply, slty, sft, v calc. Bent. tr										Chalk 70%: ltgy-gy, wh bnd chk, extr calc, occ intbd biocl, shly, frm, sbply. Mrlst 25%: mdgy-dkgy, v calc, abnd intbd biocl, frm, sbply, no sfl, fst str wh cut. SH 5%: gy-drkgy, occ blk, plty-sbply, slty, sft, v calc. Bent. tr										Chalk 70%: intbd biocl, mdgy-dkgy, no sfl, fst str wh cut, plty-sbply,																			
																				7300																			

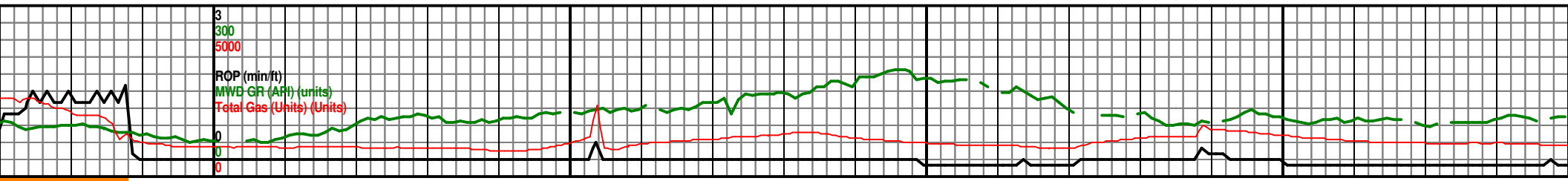




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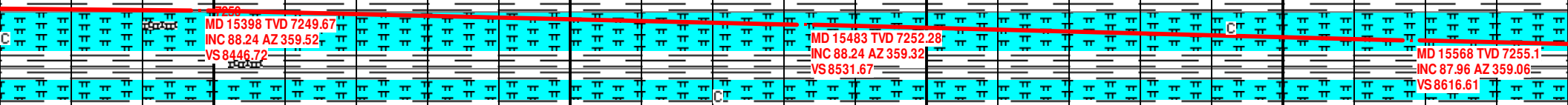
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15450

15500

15550

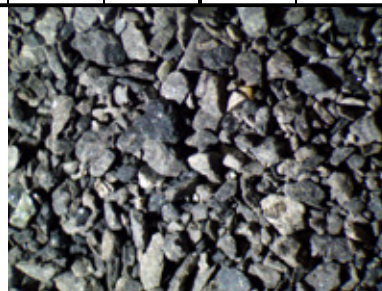
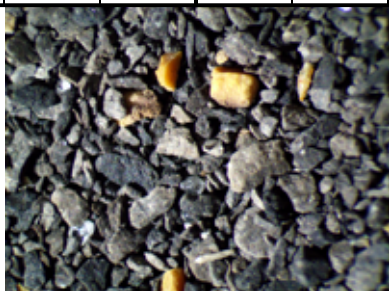
7200 TVD



Chalk 40%: ltgy-gy, wh bnd chk, extr calc, occ
intbd biocl, shly, frm, sbplty. Mrlst 30%:
mdgy-dkgy, v calc, abnd intbd biocl, frm, sbplty,
no sfl, fst str wh cut. SH 20%: gy-drkgy, occ blk,
plty-sbplty, slty, sft, v calc. Bent. 4%: or-yel,
sbbkly, hd, yel flor.

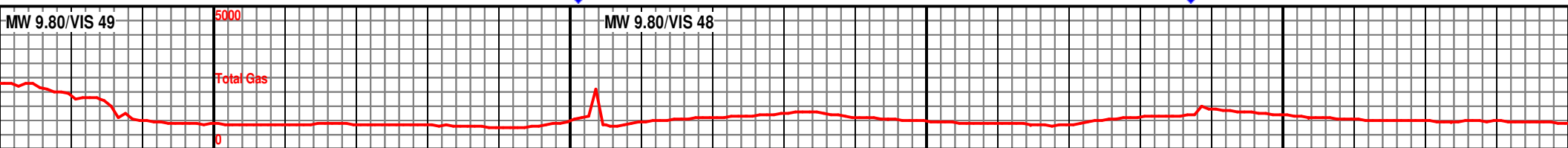
Chalk 65%: ltgy-gy, wh bnd chk, extr calc, occ
intbd biocl, shly, frm, sbplty. Mrlst 25%:
mdgy-dkgy, v calc, abnd intbd biocl, frm, sbplty,
no sfl, fst str wh cut. SH 10%: gy-drkgy, occ blk,
plty-sbplty, slty, sft, v calc. Bent. tr.

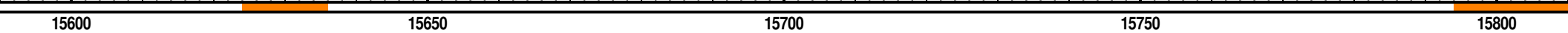
Mrlst 50%:
frm, sbplty,
ltgy-gy, wh
shly, frm, sb
plty-sbplty,



MW 9.80/VIS 49

MW 9.80/VIS 48





15650

15700

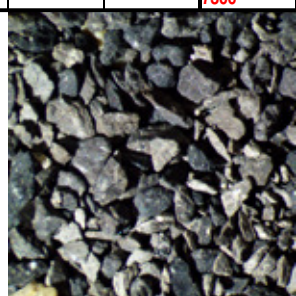
15750

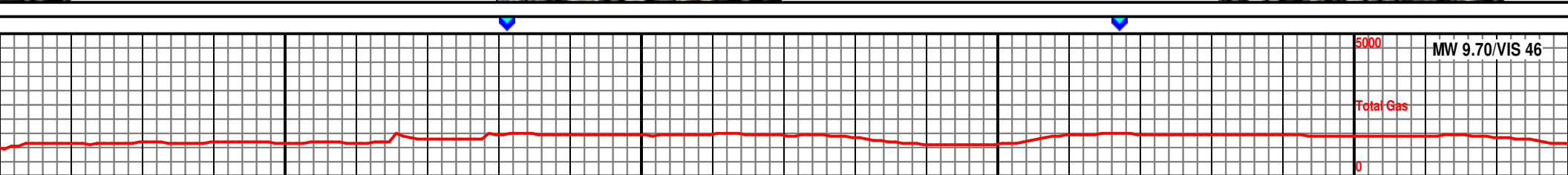
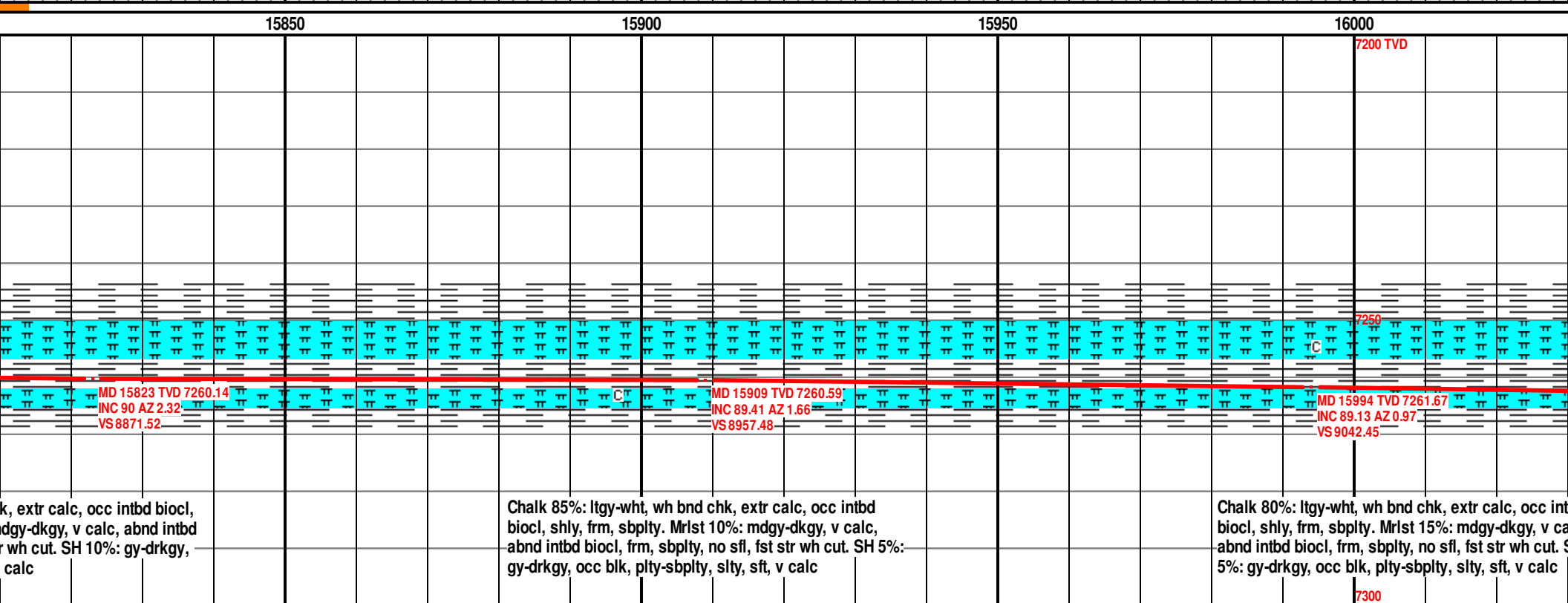
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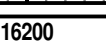
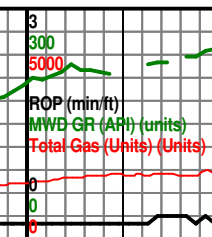
4:00AM 1/10/2015 Depth @ 15624' MD



Chalk 70%: ltgy-gy, wh bnd ch
shly, frm, sbplty. Mrslt 20%: m
biocl, frm, sbplty, no sfl, fst str
occ blk, plty-sbplty, slty, sft, v

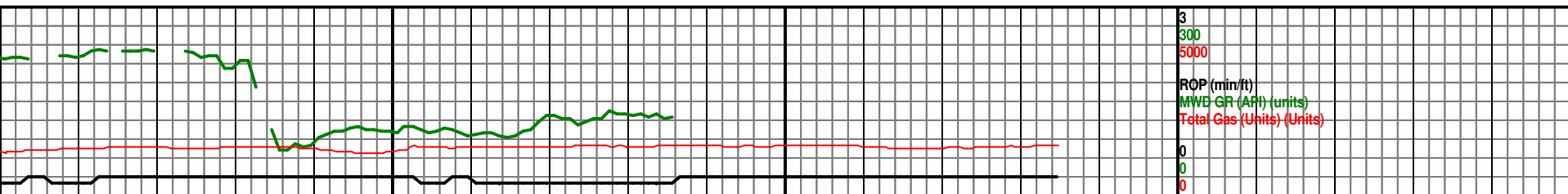






Chalk 70%: ltgy-wht, wh bnd chk, extr calc, occ intbd biocl, shly, frm, sbply. Mrlst 25%: mdgy-dkgy, v calc, abnd intbd biocl, frm, sbply, no sfl, fst str wh cut. SH 5%: gy-drkgy, occ blk, plty-sbply, slty, sft, v calc





250	16300	16350	16400	16450
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7200 TVD

TD of 16385' MD Achieved 12:21PM
1/10/2015. T.O.O.H. for casing.

2 Man logging unit released by
Company Man 1/10/2015.

7250

Projection to Bit

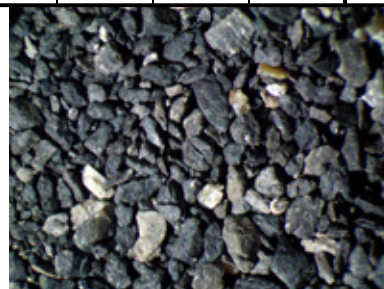
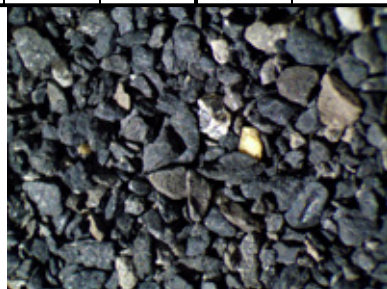
MD 16331 TVD 7265.91
INC 89.44 AZ 1.02
VS 9379.37

MD 16385 TVD 7266.44
INC 89.44 AZ 1.02
VS 9433.36

Chalk 60%: ltgy-wht, wh bnd chk, extr calc, occ intbd
biocl, shly, frm, sbply. Mrlst 35%: mdgy-dkgy, v calc,
abnd intbd biocl, frm, sbply, no sfl, fst str wh cut. SH
5%: gy-drkgy, occ blk, ply-sbply, slty, sft, v calc

Chalk 60%: ltgy-wht, wh bnd chk, extr calc, occ intbd
biocl, shly, frm, sbply. Mrlst 35%: mdgy-dkgy, v calc,
abnd intbd biocl, frm, sbply, no sfl, fst str wh cut. SH
5%: gy-drkgy, occ blk, ply-sbply, slty, sft, v calc

7300



MW 9.70/VIS 46

5000

Total Gas

0