

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

Well Name:	SRC EVANS 24N-14B-L		
API:	05-123-41465		
Location:	Section 26, T5N, R66W, Weld County, CO.		
License Number:		Region:	Wattenberg
Spud Date:	October 29, 2016	Drilling Completed:	November 03, 2016
Surface Coordinates:	SWNE T5N R66W Sec 26; 2,025' FNL, 2,574' FEL; LAT 40.372209 LONG -104.744112		
Bottom Hole Coordinates:	NESE T5N R66W Sec 14; 2,117' FSL, 1,122' FEL		
Ground Elevation (ft):	4,749'	K.B. Elevation (ft):	4,769'
Logged Interval (ft):	7,000'	To:	16,939 Total Depth (ft): 16,939' DMTD
Formation:	Pierre Shales / Sands, Niobrara "B" Chalk Target		
Type of Drilling Fluid:	LSNG Surface, OBM Curve & Lateral		
Printed by HORIZONTAL.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com			

## OPERATOR

**Company:** Synergy Resources Corporation  
**Address:** 1625 Broadway, Suite 300  
Denver, Colorado 80202  
(720) 616-4300

## GEOLOGIST

**Name:** Ryan Scribner & Phillip Willcox  
**Company:** Goolsby Brothers & Assoc. (GBA), Inc. ([www.goolsbybrothers.com](http://www.goolsbybrothers.com))  
**Address:** 575 Union Blvd. Suite 208,  
 Lakewood CO. 80228  
 Tel 303-618-7736

## E-logs

PULSE MWD GR from 1,771'-16,925'


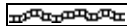
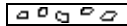

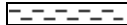

## Casing






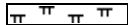
9 5/8" Surface Casing set @ 1,755' MD  
5 1/2" Production Casing set @ 16,925' MD


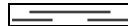




## Comments





- 1) Drilling Contractor: Precision Drilling, Rig #462  
Toolpusher: Arron M Yocom
- 2) Company Man: Larry Schneider  
Sean Devereaux
- 3) Mud Company : Halliburton Baroid 41  
Engineer: Nicholas Ondlar
- 4) Directional Drilling: Baker Huges Directional  
Rotary Steerable BHA
- 5) Gas Equipment: Pason Gas Analyzer (Spectrometer)

## ROCK TYPES

	Anhy
	Bent
	Brec
	Cht
	Clyst
	Coal

	Oil sat.
	Congl
	Dol
	Gyp
	Lmst
	Mrlst

	Salt
	Shale
	Shcol
	Shgy
	Ss
	Sltst

	Ss
	Chalk
	Carb sh
	Sltly sh

## ACCESSORIES

### MINERAL

	Anhy
	Arggrn
	Arg
	Bent
	Bit
	Brecfrag
	Calc
	Carb
	Chtdk
	Chtlit
	Dol
	Feldspar
	Ferrpel
	Ferr
	Glau
	Gyp
	Hvymin
	Kaol
	Marl

	Minxl
	Nodule
	Phos
	Pyr
	Salt
	Sandy
	Silt
	Sil
	Sulphur
	Tuff

### FOSSIL

	Algae
	Amph
	Belm
	Bioclst
	Brach
	Bryozoa
	Cephal
	Coral

	Crin
	Echin
	Fish
	Foram
	Fossil
	Gastro
	Oolite
	Ostra
	Pelec
	Pellet
	Pisolite
	Plant
	Strom

### STRINGER

	Chlkstg
	Anhy
	Arg
	Bent
	Coal

	Dol
	Gyp
	Ls
	Mrst
	Sltstrg
	Ssstrg

### TEXTURE

	Boundst
	Chalky
	Cryxln
	Earthy
	Finexln
	Grainst
	Lithogr
	Microxln
	Mudst
	Packst
	Wackest

## OTHER SYMBOLS

### OIL SHOWS

	Even
	Spotted
	Ques
	Dead
	Vspotty
	near even

### POROSITY TYPE

	Earthy
	Fenest
	Fracture
	Inter
	Moldic
	Organic

	Pinpoint
	Vuggy

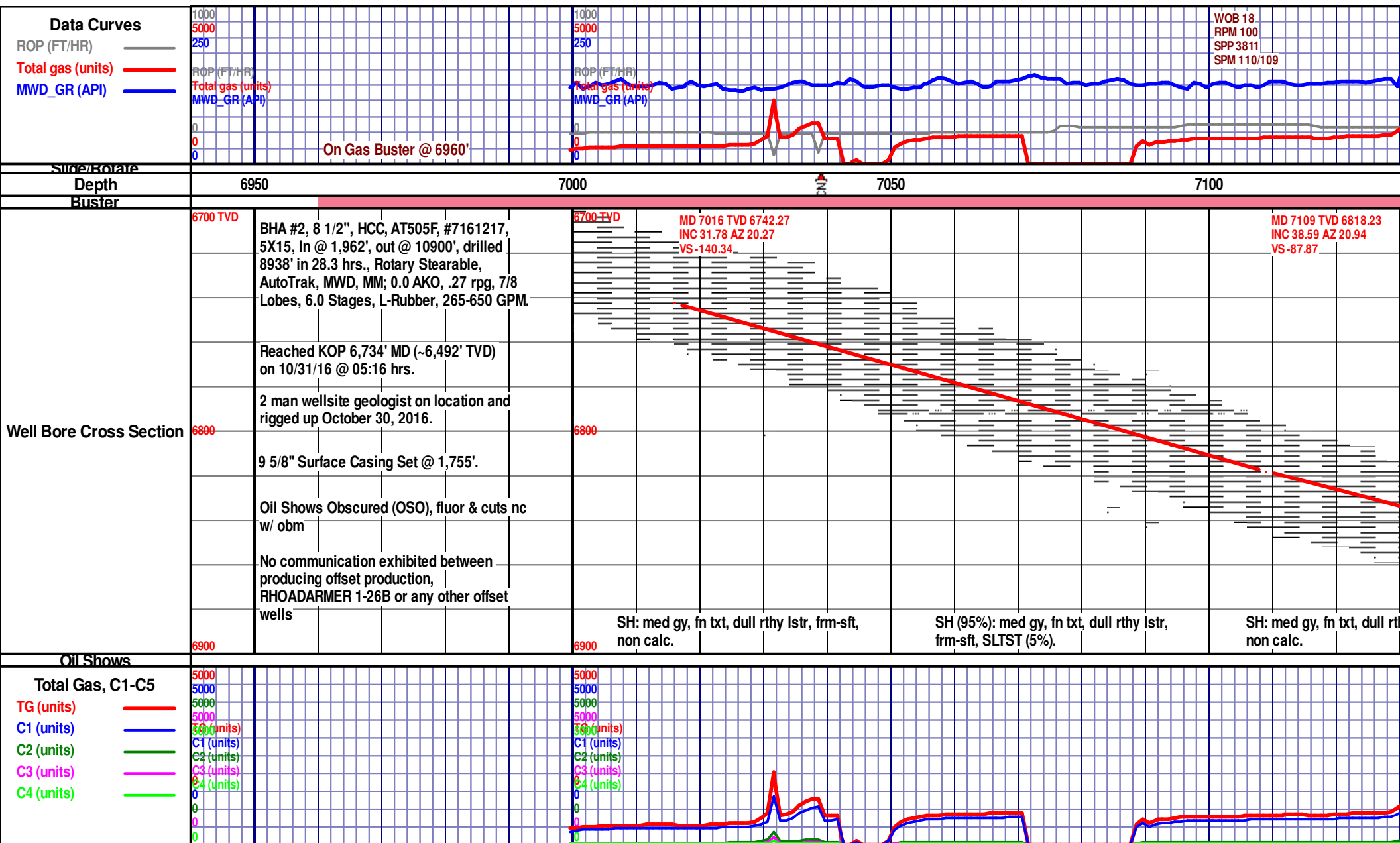
### ROUNDING

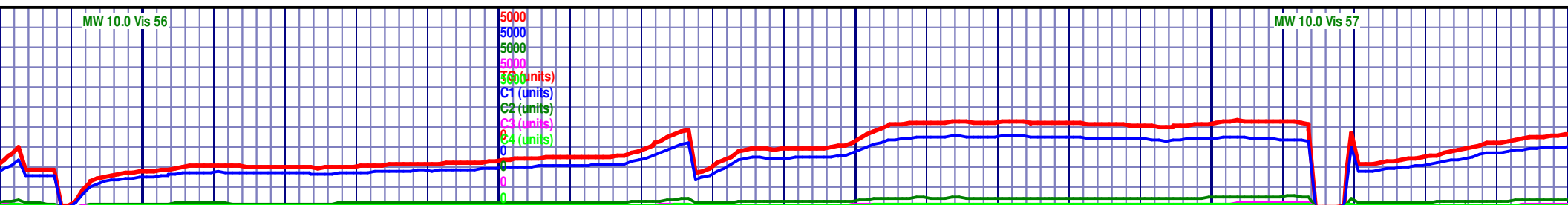
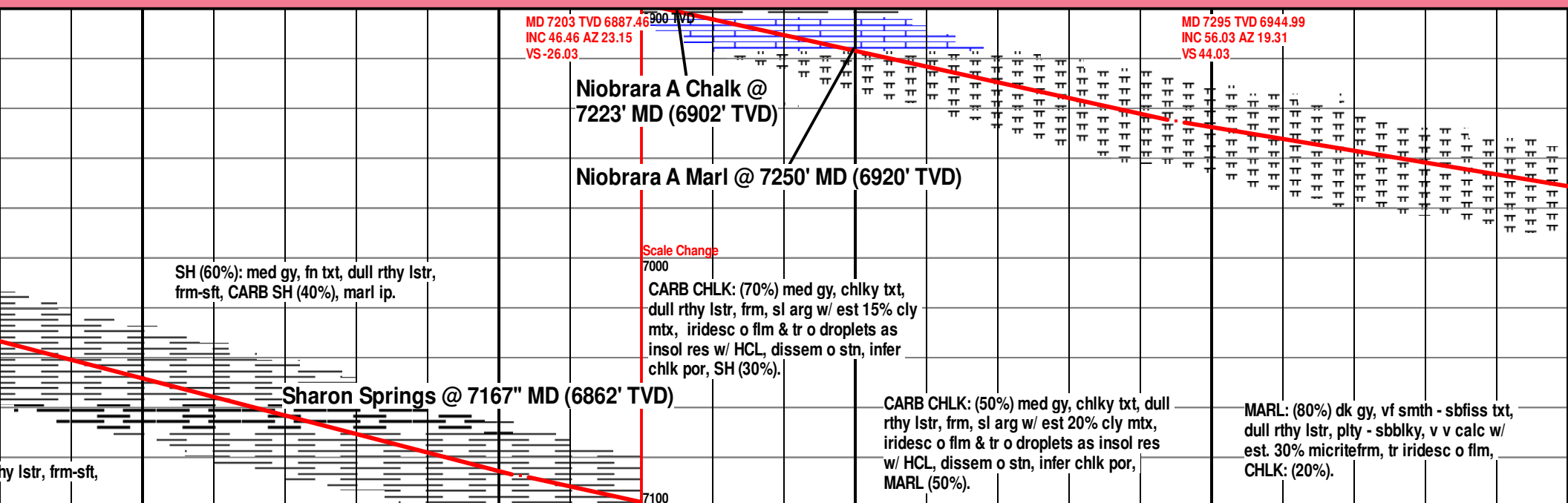
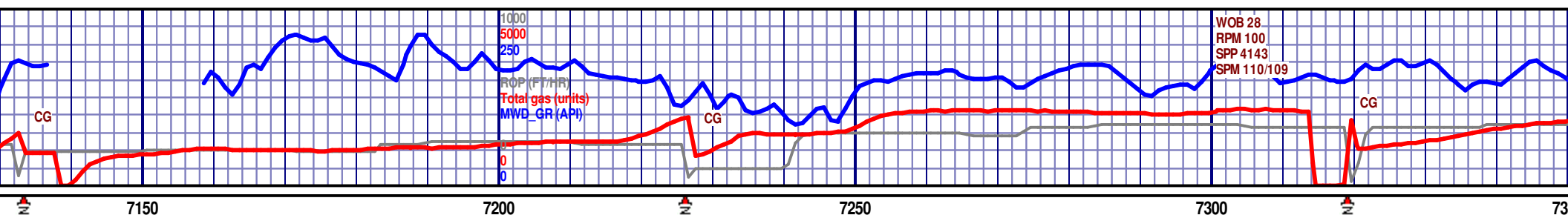
	Rounded
	Subrnd
	Subang

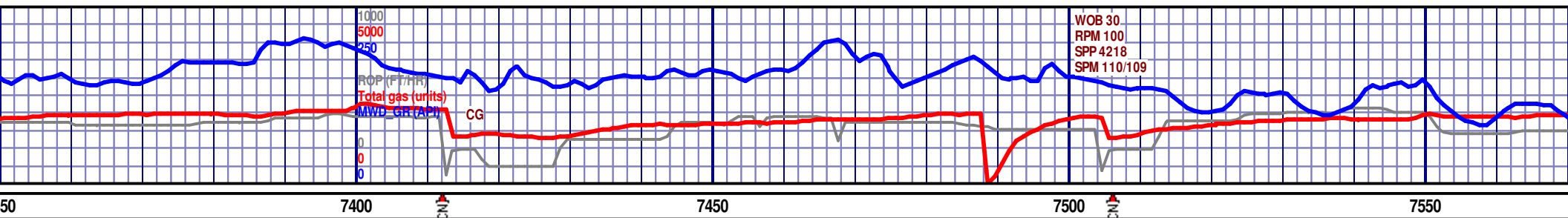
	Angular
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### SORTING

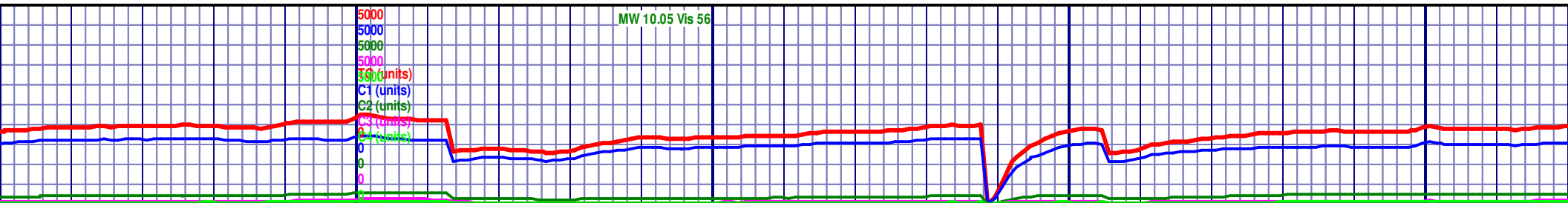
	Well
	Moderate
	Poor



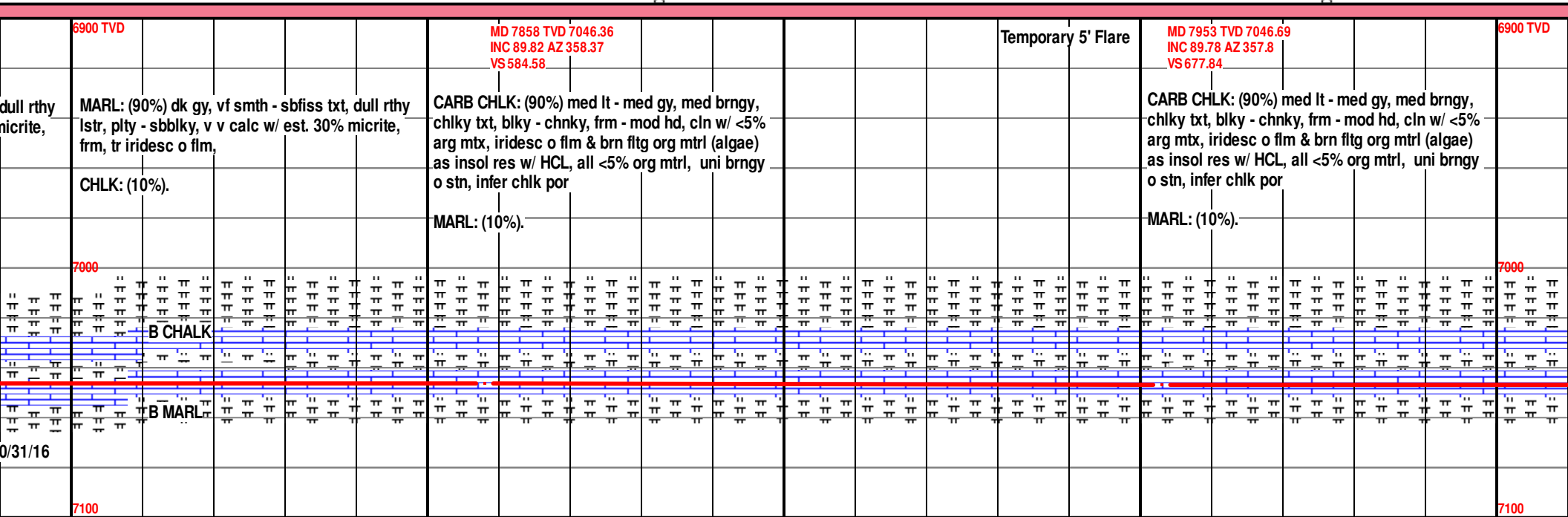




<p>MD 7389 TVD 6989.87' INC 66.88 AZ 14.38 VS 125.71</p> <p>MARL: (90%) dk gy, vf smth - sbfiss txt, dull rthy lstr, pty - sbbiky, v v calc w/ est. 30% micrite, frm, tr iridesc o flm, CHLK: (10%).</p>	<p>MD 7482 TVD 7019.44 INC 76.01 AZ 9.63 VS 213.65</p> <p>MARL: (100%) dk gy, vf smth - sbfiss txt, dull rthy lstr, pty - sbbiky, v v calc w/ est. 30% micrite, frm, tr iridesc o flm</p>	<p>MARL: (100%) dk gy, vf smth - sbfiss txt, dull rthy lstr, pty - sbbiky, v v calc w/ est. 30% micrite, frm, tr iridesc o flm</p>	<p>MARL: (100%) dk gy, vf smth - sbfiss txt, dull rthy lstr, pty - sbbiky, v v calc w/ est. 30% micrite, frm, tr iridesc o flm</p>	<p>CARB CHLK: (90%) chlky txt, blkly - chr arg mtx, iridesc o f as insol res w/ HCL por</p> <p>MARL: (10%).</p>
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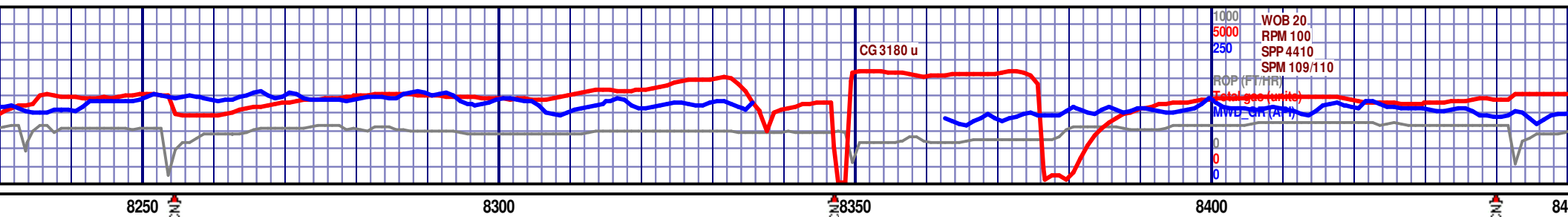




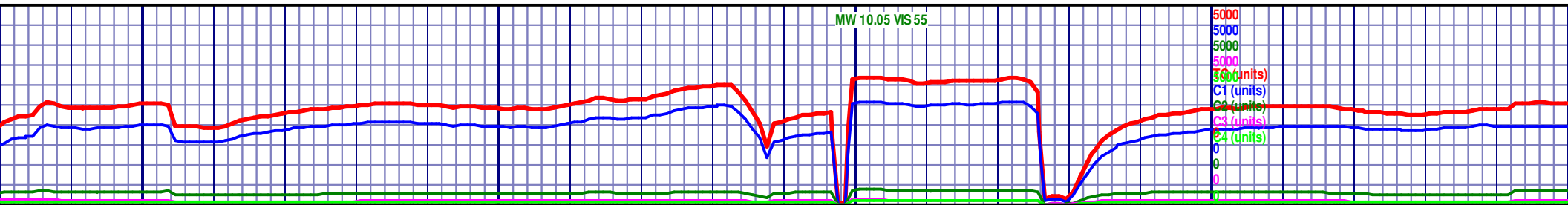


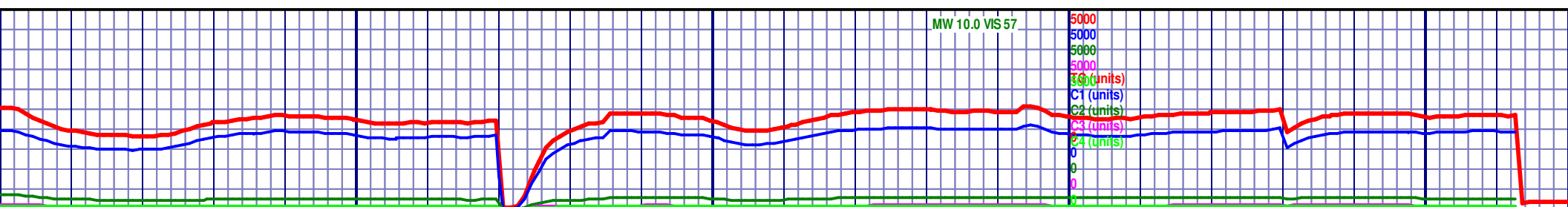
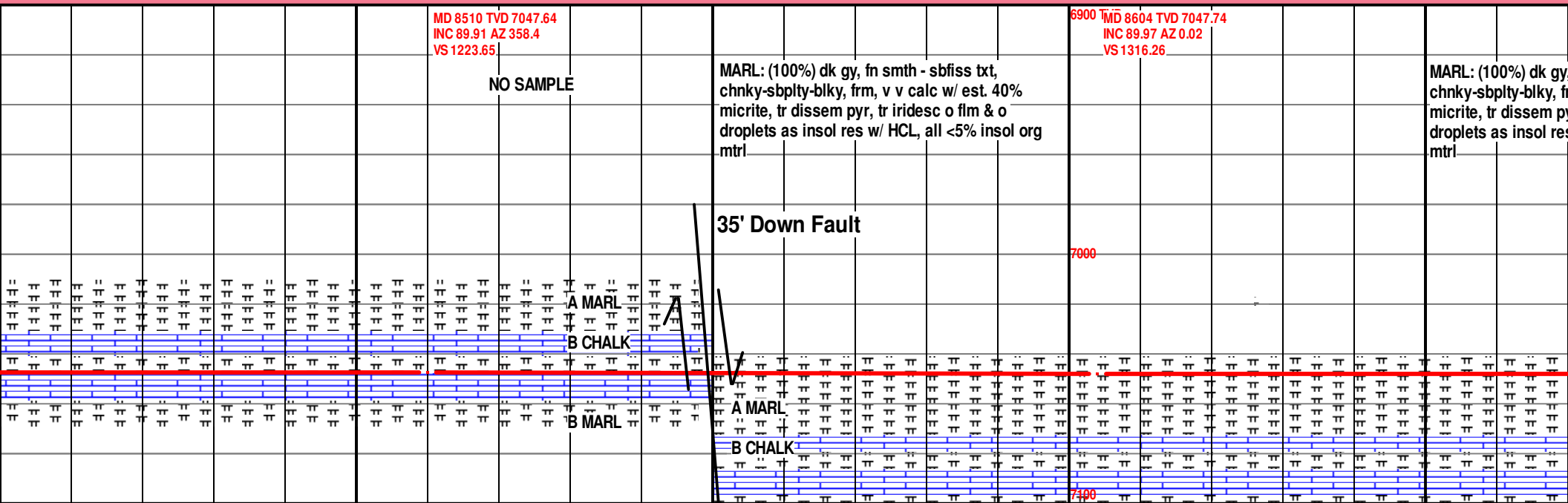
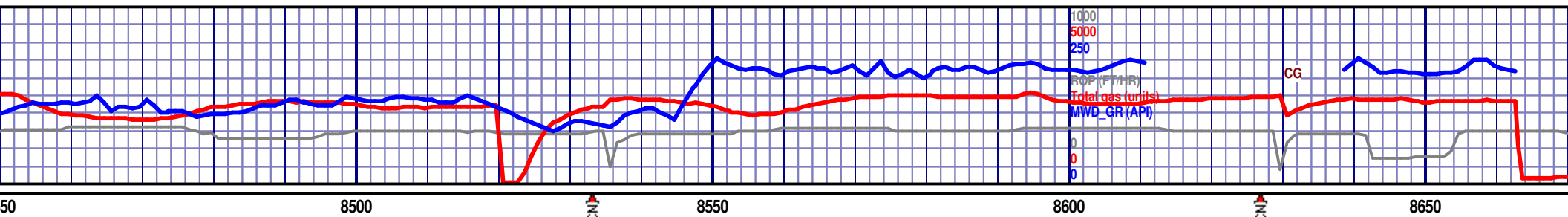




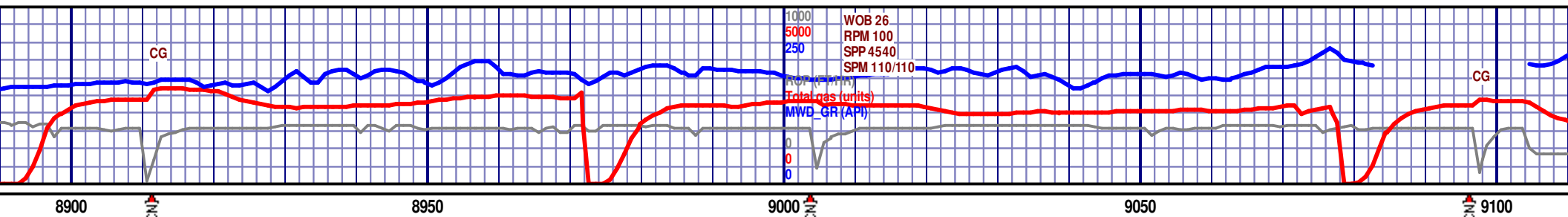


MD 8231 TVD 7047.08 INC 90.06 AZ 358.15 VS 950.32	MD 8324 TVD 7047.16 INC 89.85 AZ 356.85 VS 1041.43	6900 TVD MD 8416 TVD 7047.42 INC 89.82 AZ 357.38 VS 1131.43
	FOSS MARL: (70%) dk gy, spttd wht, vf smth - sbfiss txt, plty-sbblky, frm, dull rthy lstr, v v calc w/ est. 40% micrite, tr pyr, dcrsg imbdd wht nano foss (coccoliths), tr iridesc o flm	FOSS MARL: (60%) dk gy, spttd wht, vf smth - sbfiss txt, plty-sbblky, frm, dull rthy lstr, v v calc w/ est. 40% micrite, tr pyr, dcrsg imbdd wht nano foss (coccoliths), tr iridesc o flm
	ARG CARB CHLK: (30%) med gy, chlky txt, sbchnky-blky, frm-mod hd, arg w/ 10-20% cly mtx, tr iridesc o flm & o droplets as insol res w/ HCL, all <5% insol org mtrl, infer chlk por	ARG CARB CHLK: (40%) med gy, chlky txt, sbchnky-blky, frm-mod hd, arg w/ 10-20% cly mtx, tr iridesc o flm & o droplets as insol res w/ HCL, all <5% insol org mtrl, infer chlk por
Tr BENT CLY	Tr BENT CLY	Tr PYRTC BENT CLY
B CHALK		
B MARL		

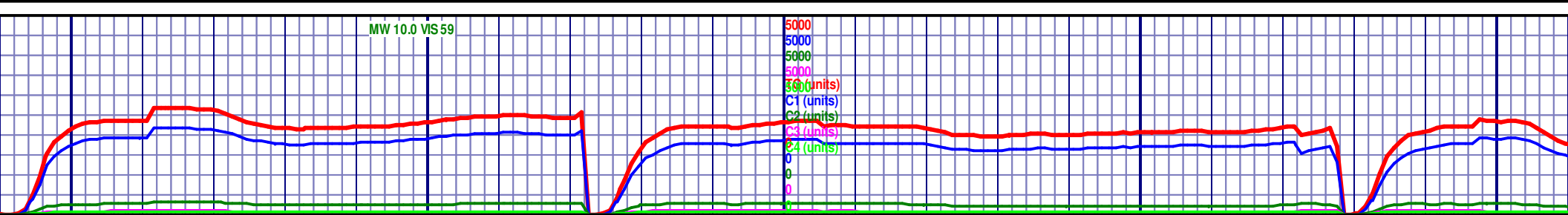


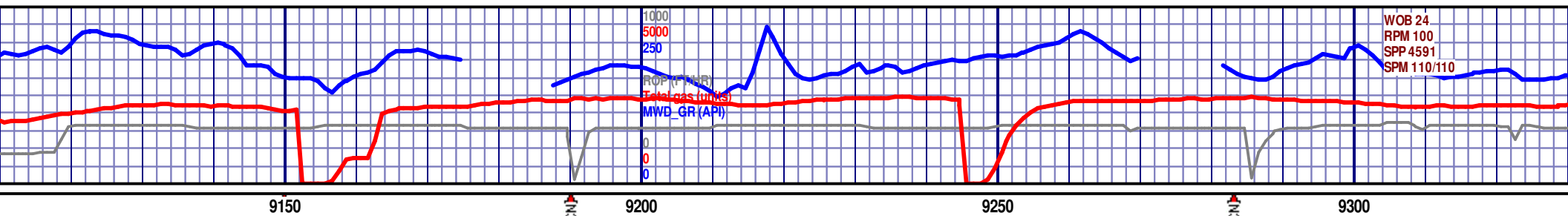
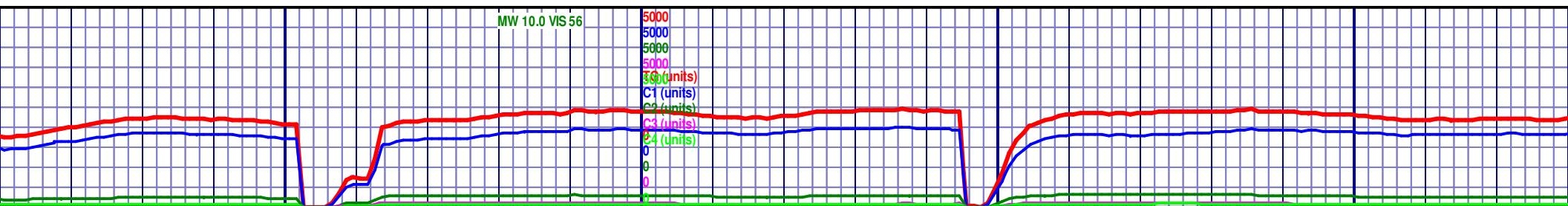


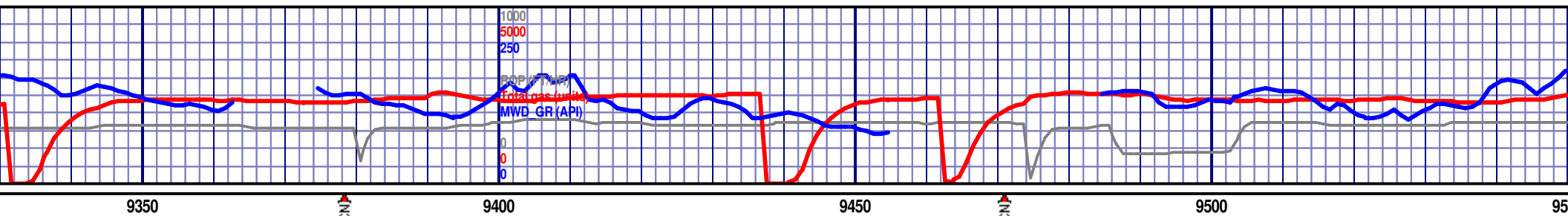




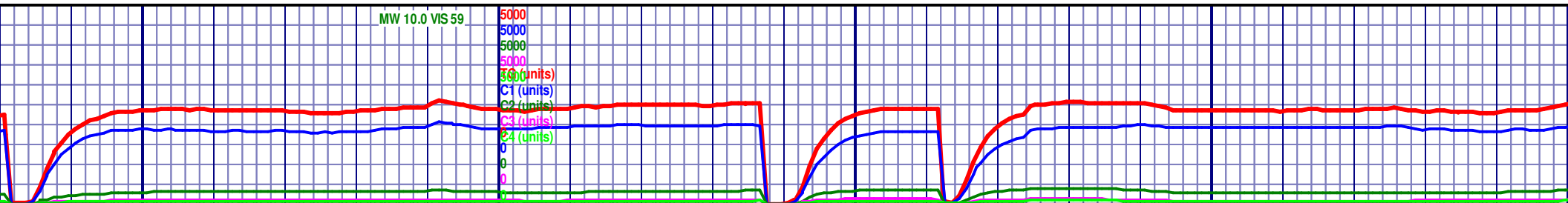
8887 TVD 7047.74 C 89.97 AZ 359.88 VS 1595.74	MD 8980 TVD 7047.72 INC 90.06 AZ 0.69 VS 1687.64  MARL: (100%) dk gy, fn smth - sbfiss txt, chnky-sbplty-splty, frm, v v calc w/ est. 20% micrite, tr dissem pyr, dcrsg tr iridesc o flm as insol res w/ HCL, all <3% insol org mtrl	6900 TVD  7000	MD 9072 TVD 7047.69 INC 89.97 AZ 1.13 VS 1778.71  MARL: (100%) dk gy, fn smth - sbfiss txt, chnky-sbplty-splty, frm, v v calc w/ est. 20% micrite, tr dissem pyr, sbcarb
Log is approximately on Depth w/ Synergy tearing X-section, 8887' MD, 21:10, 10.31.16			
		A MARL B CHALK	
		B MARL	

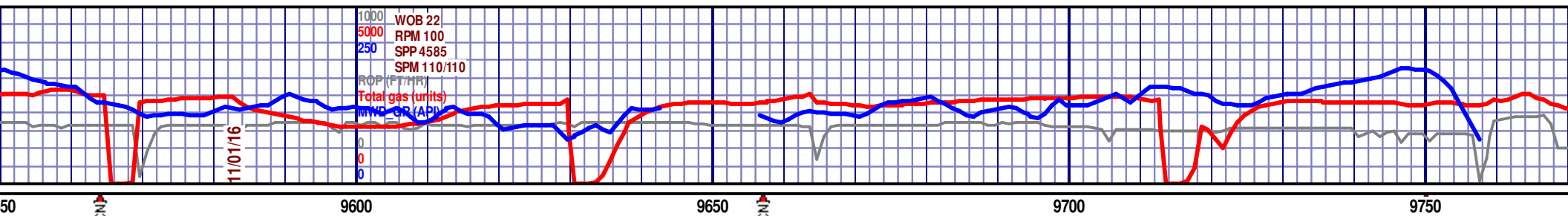


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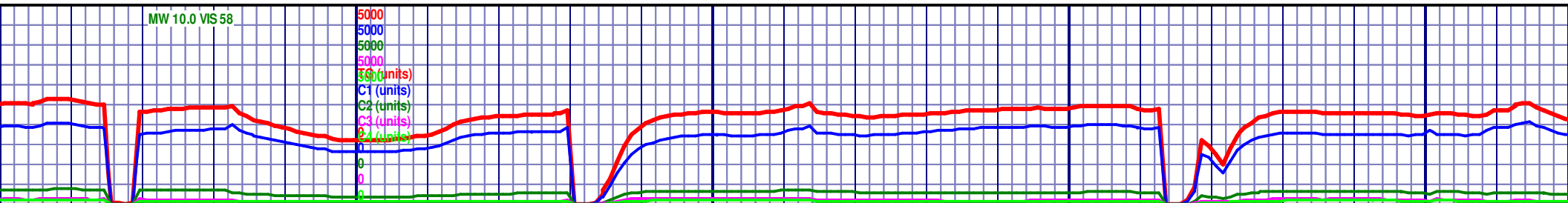


	MD 9354 TVD 7047.82 INC 89.75 AZ 0.01 VS 2057.77	6900 TVD	MD 9447 TVD 7048.08 INC 89.94 AZ 359.52 VS 2149.55	MD 9540 TVD 7048.08 INC 90.09 AZ 359.52 VS 2241.26
med dk brn gy, arg w/ 10-30% cly droplets as insol res of fltg org mtrl	CARB CHLK: (90%) mttld med - med lt brngy, chlky txt, chnky-sbply-sbblky, frm - mod hd, v cln w/ <5% cly mtz, tr iridesc o flm, tr dk olv gy mic strands of fltg org mtrl (algae), uni gy brn o stn		CARB CHLK: (90%) mttld med - med lt brngy, chlky txt, chnky-sbply-sbblky, frm - mod hd, v cln w/ <5% cly mtz, arg chl ip, infer chl por, incrsrg iridesc o flm & o droplets as insol res w/ HCL, all <5% insol org res, uni gy brn o stn	
	MARL: (10%)		MARL: (10%)	
		7000		
		Apparent dip 90.8	Mudlog is approximately on Depth w/ Synergy Geosteering X-section, 9447' MD, 00:09, 11.01.16	
				A MARL
				B CHALK
				B MARL
		7100		

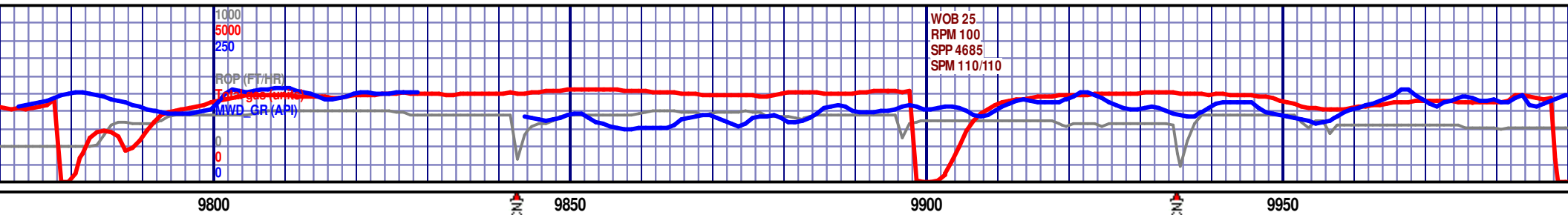




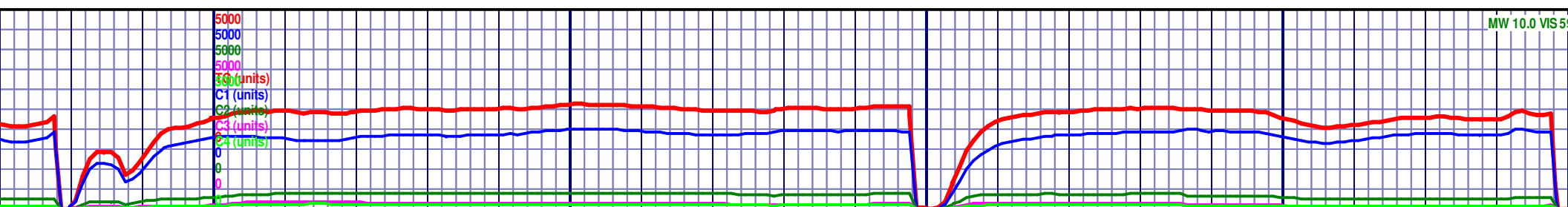
MD 7048.05 Z 359.54	6900 TVD	MD 9634 TVD 7047.93 INC 90.06 AZ 359.91 VS 2334.02	Temporary 4' Flare 726 TVD 7047.88 INC 90 AZ 0.9 VS 2424.97
CARB CHLK: (90%) mtlld med gy brn- med lt brn gy, chiky txt, chnky-sbplty, frm - mod hd, pred v cln chlk - arg chlk ip, infer chlk por, iridesc o flm & o droplets as insol res w/ HCL, all <5% insol org res, uni gy brn o stn		CARB CHLK: (90%) mtlld med gy brn- med lt brn gy, chiky txt, chnky-sbplty, frm - mod hd, pred v cln chlk - arg chlk ip, infer chlk por, iridesc o flm & o droplets as insol res w/ HCL, all <5% insol org res, uni gy brn o stn	CARB CHLK: (90%) mtlld med gy brn- med lt brn gy, chiky txt, chnky-sbplty, frm - mod hd, pred v cln chlk - arg chlk ip, infer chlk por, iridesc o flm & o droplets as insol res w/ HCL, all <5% insol org res, uni gy brn o stn
MARL: (10%)	7000	MARL: (10%)	
	7100		

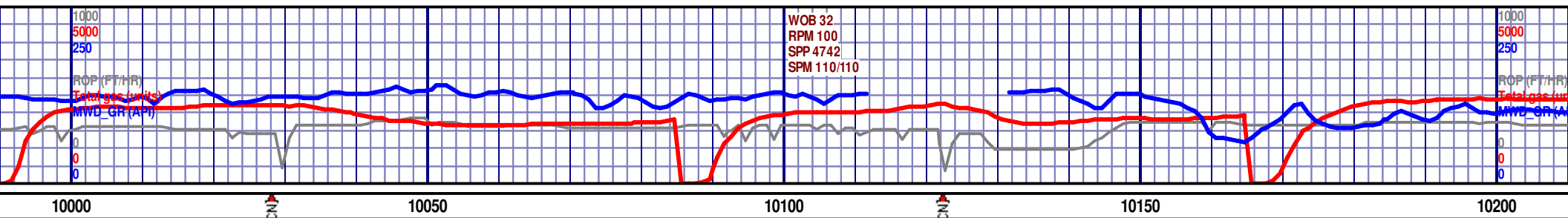




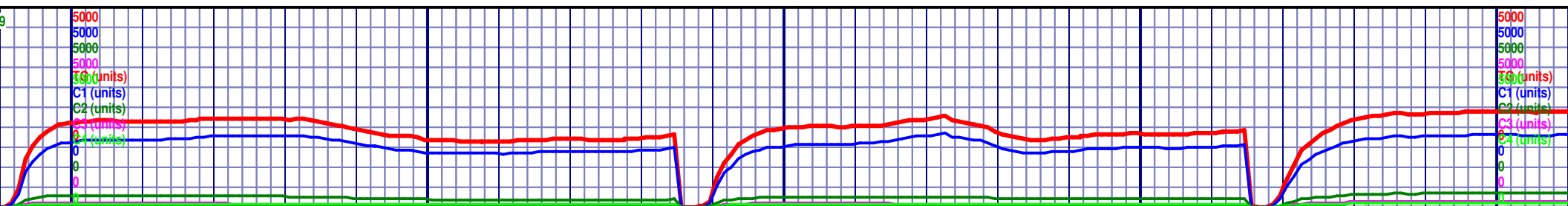


6900 TVD									
MD 9819 TVD 7047.76 INC 90.15 AZ 1.24 VS 2517.06									
mtld med gy brn- med lt brn sbply, frm - mod hd, pred v o, infer chlk por, iridesc o flm ol res w/ HCL, all <5% insol o stn									
CARB CHLK: (90%) mtld med gy brn- med lt brn gy, chlky txt, chnky-sbply, frm - mod hd, pred v cln chlk - arg chlk ip, infer chlk por, iridesc o flm & o droplets as insol res w/ HCL, all <5% insol org res, uni gy brn o stn									
MARL: (10%)									
7000									
MD 9912 TVD 7047.64 INC 90 AZ 0.54 VS 2609.11									
CARB CHLK: (80%) mtld med gy brn- me gy, chlky txt, chnky-sbply, frm - mod hd, cln chlk - arg chlk ip, infer chlk por, iride & o droplets as insol res w/ HCL, all <5% org res, uni gy brn o stn, abnt bent									
MARL: (20%)									
7100									

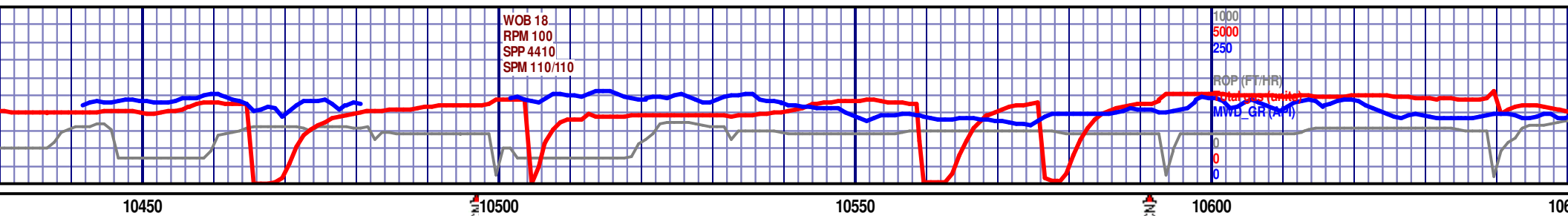




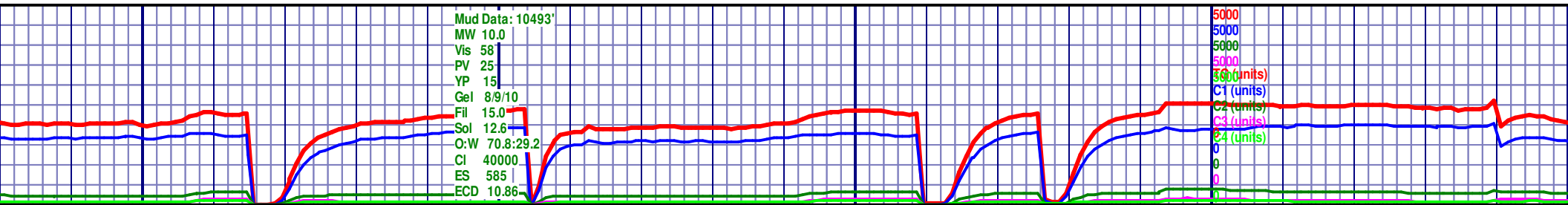
6900 MD 10004 TVD 7047.44 INC 90.25 AZ 0.08 VS 2700.04		MD 10099 TVD 7047.23 INC 90 AZ 359.16 VS 2793.75		MD 10192 TVD 7047.2 INC 90.03 AZ 0.45 VS 2885.53
d lt brn pred v esc o flm insol	CARB CHLK: (70%) mttld med gy brn- med lt brn gy, chiky txt, chnky-sbply, frm - mod hd, pred v cln chlk - arg chlk ip, infer chlk por, iridesc o flm & o droplets as insol res w/ HCL, all <5% insol org res, uni gy brn o stn, abnt bent		CARB CHLK: (80%) mttld med gy brn- med lt brn gy, chiky txt, chnky-sbply, frm - mod hd, pred v cln chlk - arg chlk ip, infer chlk por, iridesc o flm & o droplets as insol res w/ HCL, all <5% insol org res, uni gy brn o stn, abnt bent	
MARL: (30%)			MARL: (20%)	
7090				7090
A MARL				
B CHALK				
B MARL				
7100				7100





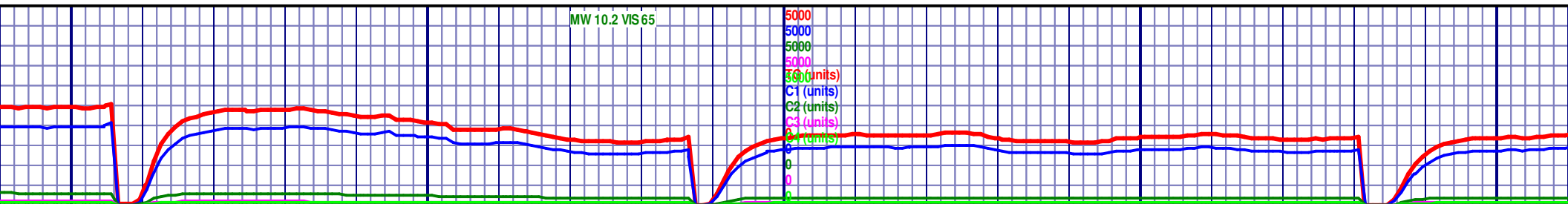
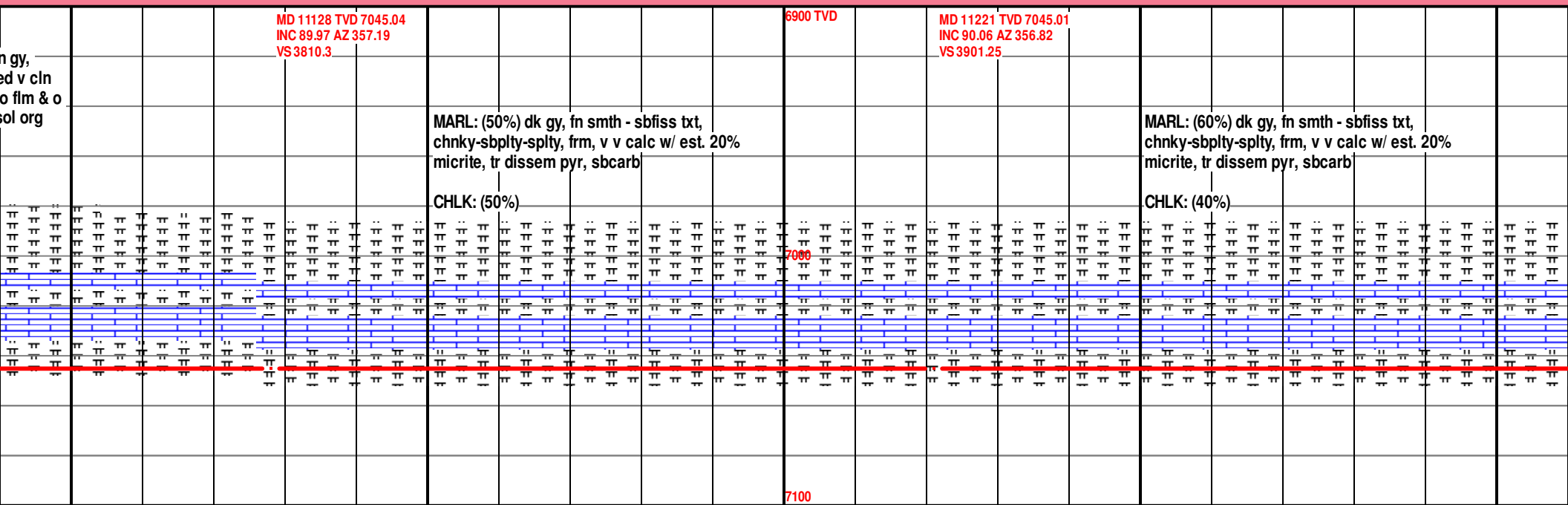
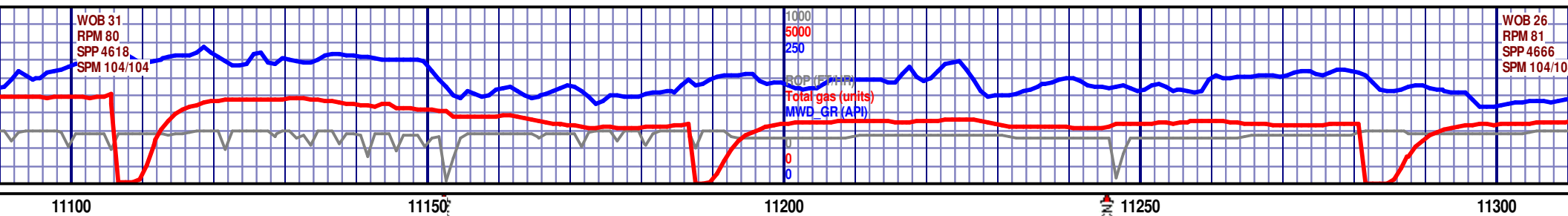


MD 10474 TVD 7047.04 INC 90.22 AZ 4.4 VS 3165.46										MD 10568 TVD 7046.96 INC 89.88 AZ 4.2 VS 3259.14										6900 TVD									
CARB CHLK: (80%) mtlid med gy brn- med lt brn gy, chlky txt, chnky-sbply, frm - mod hd, pred v cln chlk - arg chlk ip, infer chlk por, iridesc o flm & o droplets as insol res w/ HCL, all <5% insol org res, uni gy brn o stn, abnt bent										CARB CHLK: (85%) mtlid med gy brn- med lt brn gy, chlky txt, chnky-sbply, frm - mod hd, pred v cln chlk - arg chlk ip, infer chlk por, iridesc o flm & o droplets as insol res w/ HCL, all <5% insol org res, uni gy brn o stn, abnt bent																			
MARL: (20%)										MARL: (15%)																			
A MARL										A MARL										7000									
B CHALK										B CHALK																			
B MARL										B MARL																			
																				7100									





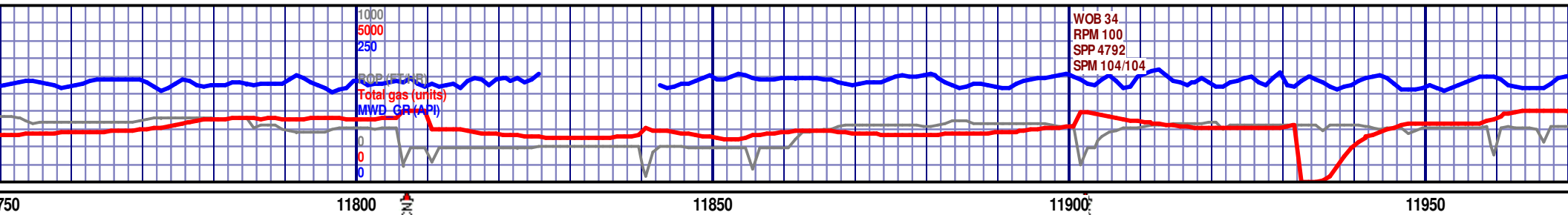




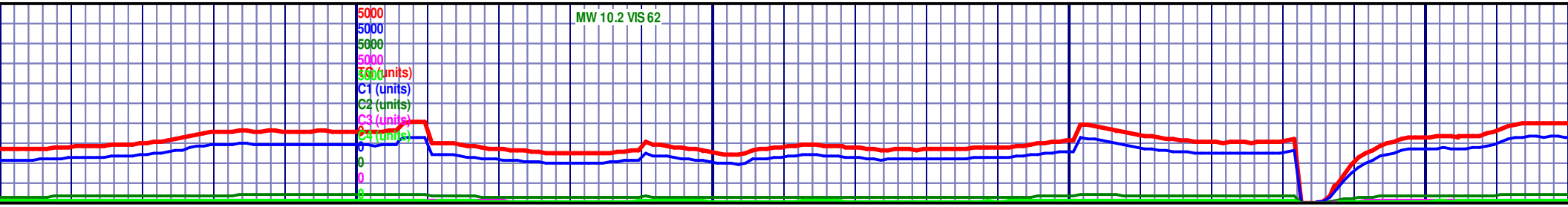




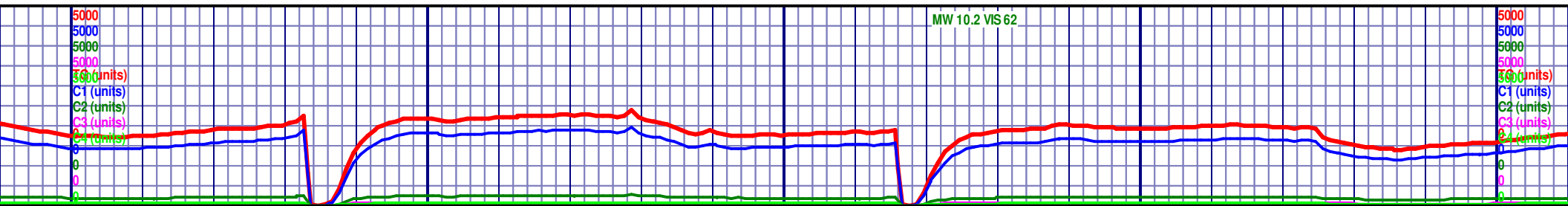
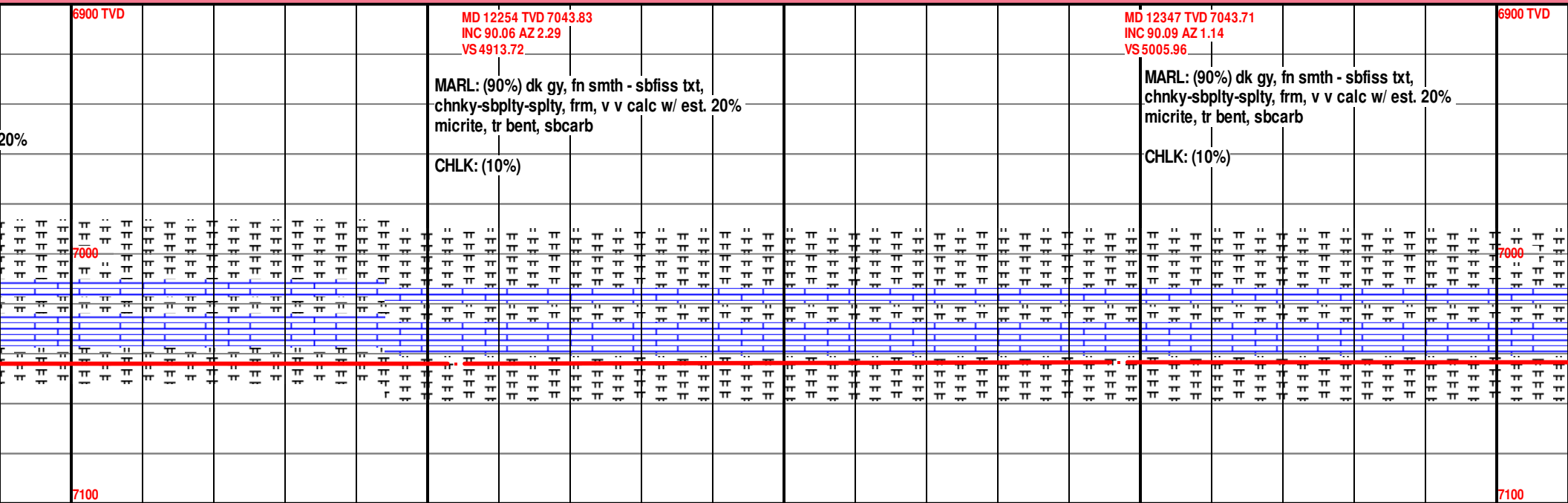
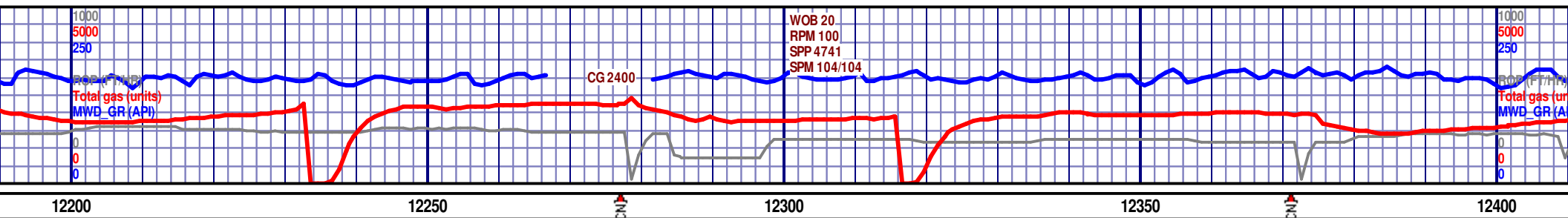




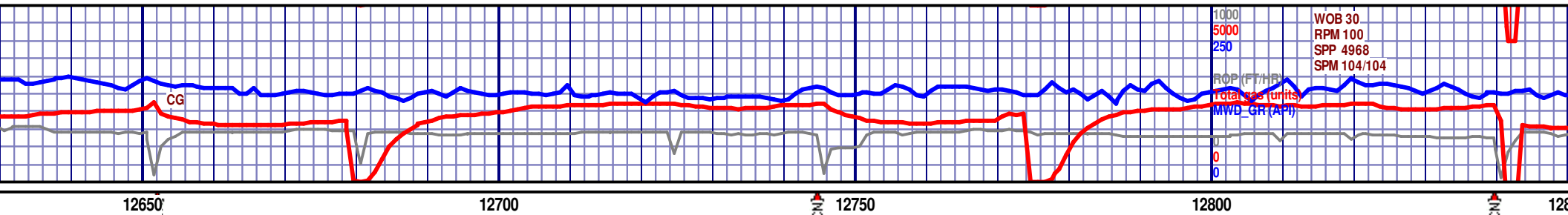
MD 11783 TVD 7044.3900 TVD INC 90.09 AZ 353.1 VS 4450.79										MD 11878 TVD 7044.18 INC 90.06 AZ 356.08 VS 4542.76																			
MARL: (70%) dk gy, fn smth - sbfiss txt, chnky-sbplty-splty, frm, v v calc w/ est. 20% micrite, sbcarb										MARL: (80%) dk gy, fn smth - sbfiss txt, chnky-sbplty-splty, frm, v v calc w/ est. 20% micrite, sbcarb										MARL: (90%) dk gy, fn smth - sbfiss txt, chnky-sbplty-splty, frm, v v calc w/ est. 20% micrite, sbcarb									
CHLK: (30%)										CHLK: (20%)										CHLK: (10%)									
7000																													
Mudlog is approximately on Depth w/ Synergy Geosteering X-section, 11783' MD, 09:42, 11.02.16																													
7100																													









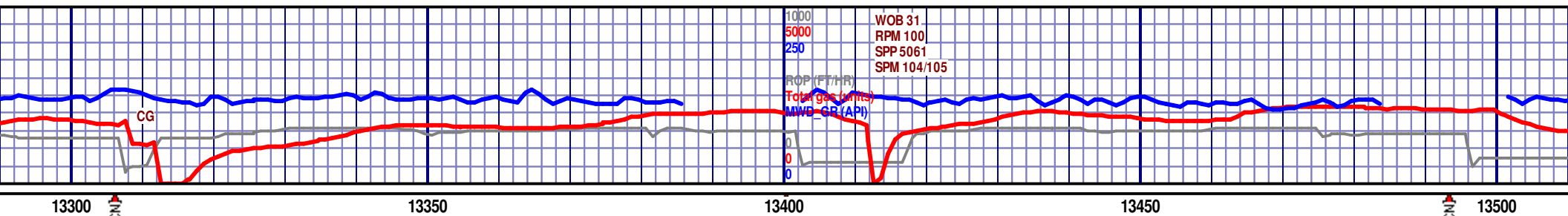


MD 12628 TVD 7043.24 INC 90.12 AZ 358.24 VS 5282.93				FOSS MARL: (100%) dk gy, spttd wht ip, fn smth - sbfiss txt, dull rthy lstr, blkly - sbply, frm, v v calc w/ est. 30% micrite, tr imbdd wht nano foss (cocoliths), carb				MD 12721 TVD 7043.07 INC 90.09 AZ 358.5 VS 5374.31				FOSS MARL: (100%) dk gy, spttd wht ip, fn smth - sbfiss txt, dull rthy lstr, blkly - sbply, frm, v v calc w/ est. 20% micrite, tr imbdd wht nano foss (cocoliths), carb				6900 TVD				MD 12816 TVD 7042.9 INC 90.12 AZ 358.27 VS 5467.66			
				tr BENTC CLY: tn, v vf smth txt, sbwxy lstr, pyrtc ip, mnrl fluor								tr BENTC CLY: tn, v vf smth txt, sbwxy lstr, pyrtc ip, mnrl fluor											
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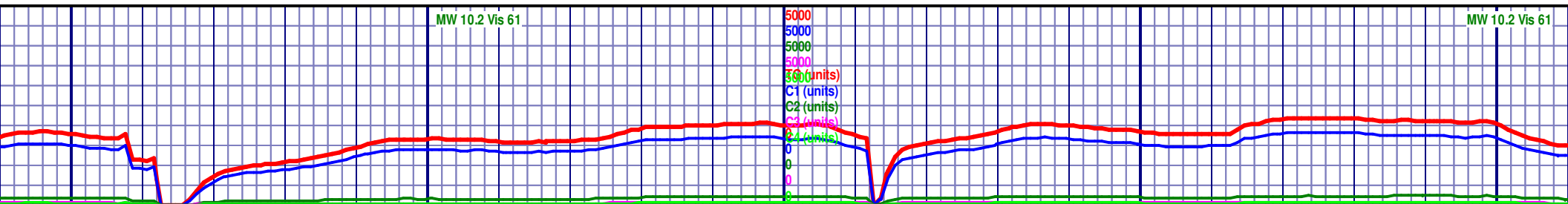


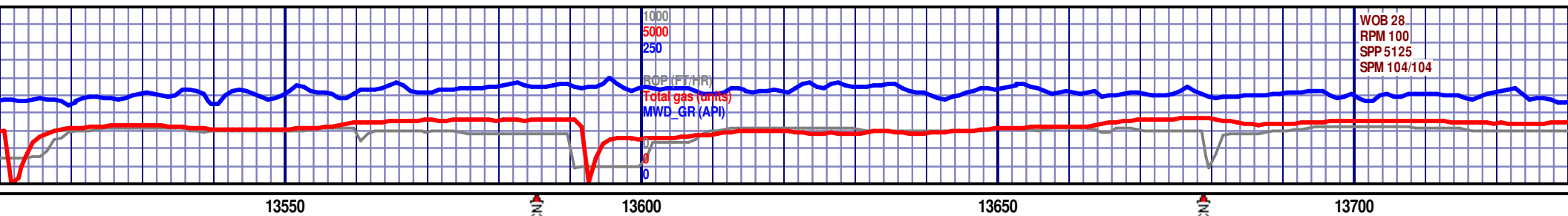




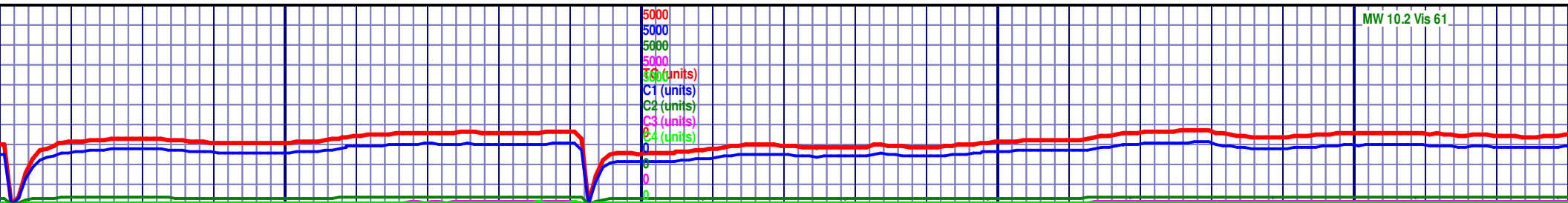


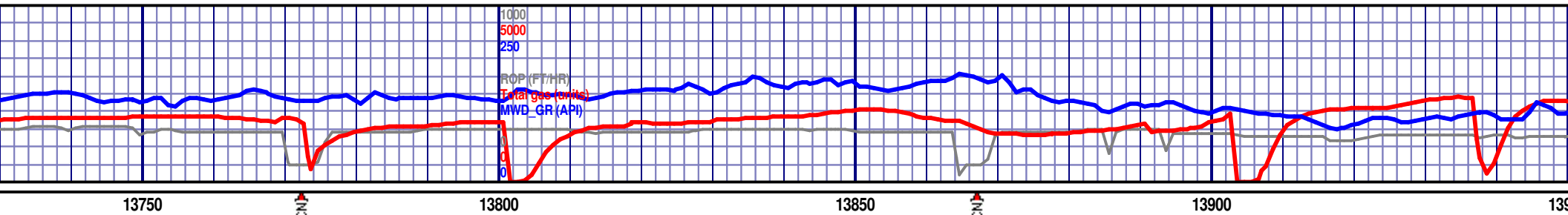
<p>83 TVD 7042.19 5 AZ 357.29 0.01</p> <p>sbply, e, occ ths), tr</p>	<p>MARL: (100%) dk gy, spttd wht ip, fn smth - sbfiss txt, dull rthy lstr, sbchnky - blkly - sbply, frm - mod hd, v v calc w/ est. 40% micrite, occ spttd wht w/ wht imbdd nano foss (cocoliths), tr iridesc o flm as insol org mtrl w/ HCL, all &lt;3% insol org mtrl, carb</p> <p>tr BENTC CLY: tn, v vf smth txt, sbwxy - metallic lstr, pty, hd, pyrtc, mnrl fluor</p>	<p>6900 TVD</p>	<p>MD 13470 TVD 7041.9 INC 90.09 AZ 3.9 VS 6111.15</p> <p>MARL: (100%) dk gy, spttd wht ip, fn smth - sbfiss txt, dull rthy lstr, sbchnky - blkly - sbply, frm - mod hd, v v calc w/ est. 40% micrite, occ spttd wht w/ wht imbdd nano foss (cocoliths), tr iridesc o flm as insol org mtrl w/ HCL, all &lt;3% insol org mtrl, carb</p> <p>tr BENTC CLY: tn, v vf smth txt, sbwxy - metallic lstr, pty, hd, pyrtc, mnrl fluor</p>	<p>A MARL B CHALK</p>
<p>metallic</p>	<p>7090</p>	<p>7100</p>	<p>Mudlog is approximately on depth w/ Synergy Geostearng X-section, 13470' MD, 20:45, 11.02.16</p>	<p>B MARL</p>



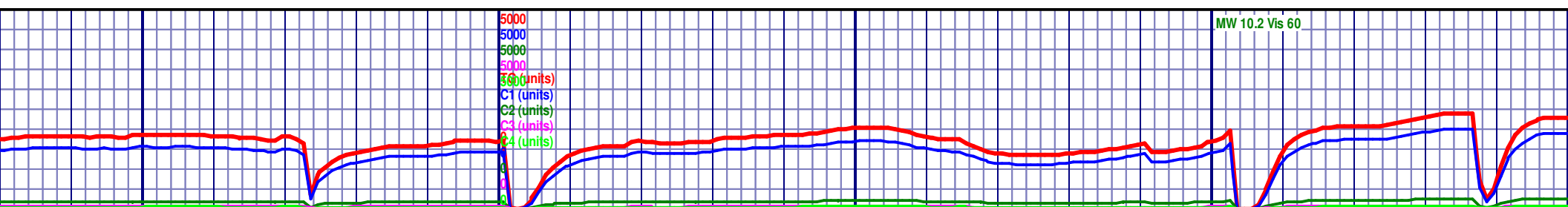


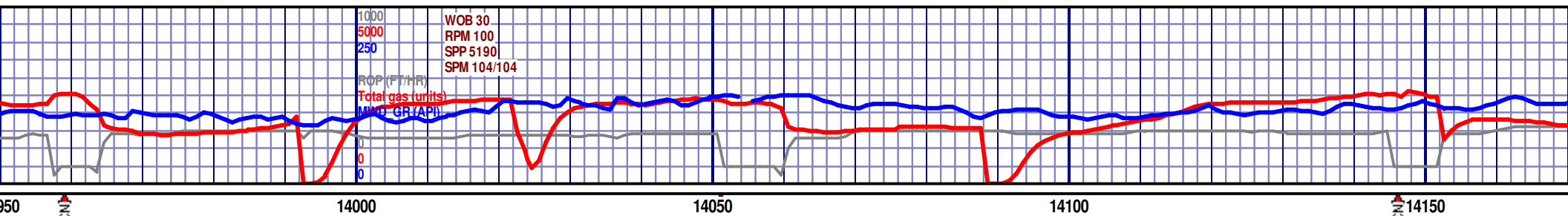
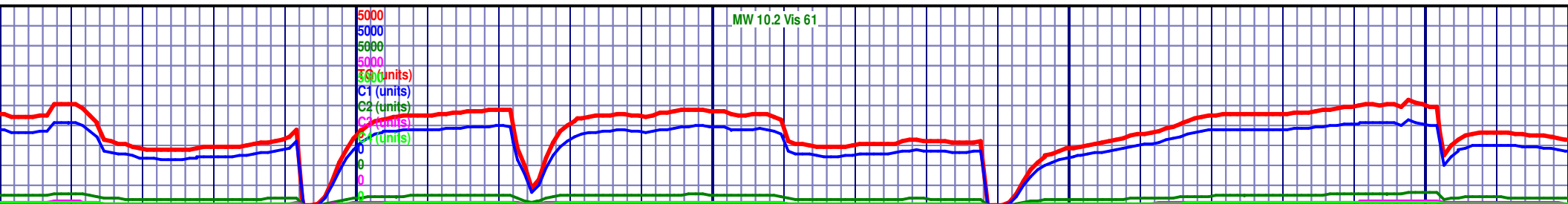
										MD 13562 TVD 7041.73 INC 90.12 AZ 2.39 VS 6202.66										6900 TVD										MD 13655 TVD 7041.61 INC 90.03 AZ 1.46 VS 6294.93																													
										MARL: (90%) dk gy, fn smth - sbfiss txt, dull rthy lstr, sbchnky-blky-sbply, frm - mod hd, v v calc w/ est. 40% micrite, tr crm-bff arag needle clstrs as foss frag (inocerimus), carb																				MARL: (100%) dk gy, spttd wht ip, fn smth - sbfiss txt, dull rthy lstr, sbchnky - blky - sbply, frm - mod hd, v v calc w/ est. 40% micrite, occ spttd wht w/ wht imbdd nano foss (cocoliths), tr iridesc o flm as insol org mtrl w/ HCL, all <3% insol org mtrl, carb																													
										BENTC CLY: (10%) tn, v vf smth txt, sbwxy - metallic lstr ip, pty, hd, pyrtc, mnrl fluor																				tr BENTC CLY: tn, v vf smth txt, sbwxy - metallic lstr, pty, hd, pyrtc, mnrl fluor																													
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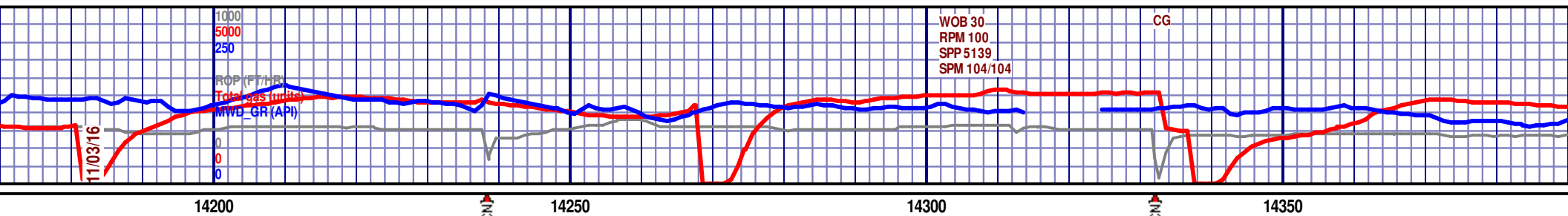




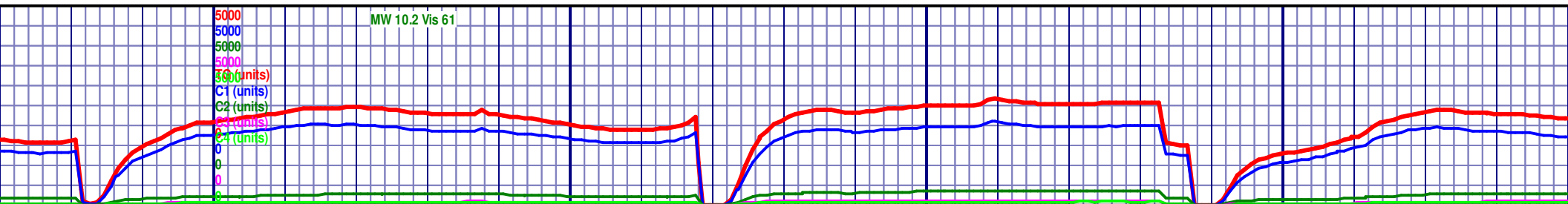
MD 13748 TVD 7041.53 INC 90.06 AZ 1.54 VS 6387.12	6900 TVD	MD 13841 TVD 7041.53 INC 89.94 AZ 0.9 VS 6479.25	MD 13936 TVD 7041.53 INC 90.03 AZ 1.1 VS 6573.31
<p>MARL: (100%) dk gy, spttd wht ip, fn smth - sbfiss txt, dull rthy lstr, sbchnky - blkly - sbply, frm - mod hd, v v calc w/ est. 30-40% micrite, occ spttd wht w/ wht imbdd nano foss (cocoliths), tr iridesc o flm as insol org mtrl w/ HCL, all &lt;3% insol org mtrl, carb</p> <p>tr BENTC CLY: tn, v vf smth txt, sbwxy - metallic lstr, pty, hd, pyrtc, mnrl fluor</p>		<p>MARL: (100%) dk gy, dcrsg amt spttd wht, fn smth - sbfiss txt, dull rthy lstr, sbchnky - blkly - sbply, frm - mod hd, v v calc w/ est. 30-40% micrite, dcrsg wht nano foss (cocoliths), carb</p>	
A MARL			
B CHALK			
B MARL			
	7000		
	7100		

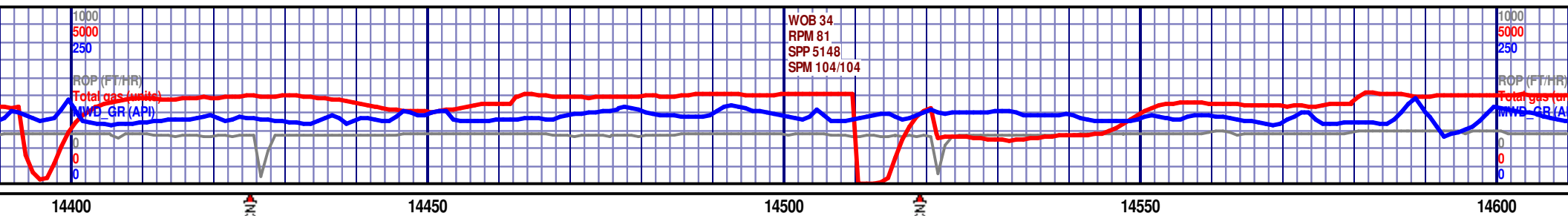


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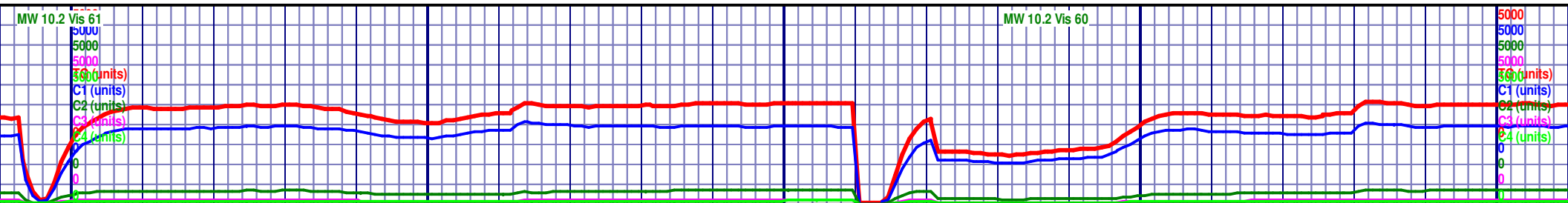


<p>6900 TVD</p> <p>med gy - med dk olv gy, spttd gy, frm - mod hd ip, bcmg cln fsg imbdd wht nano foss r brn calct &amp; arag needles as (s), iridesc o flm &amp; fltg o s w/ HCL, total insol org res o stn, infer chlk por</p>	<p>MD 14215 TVD 7041.05 INC 90.06 AZ 0.76 VS 6849.49</p>	<p>CARB CHLK: (70%) med gy - med dk olv gy, spttd wht ip, chlkly txt, blkly, frm - mod hd ip, bcmg cln w/ occ arg chlk, dcrsg imbdd wht nano foss (coccoliths), tr pearly brn calct &amp; arag needles as foss frag (inocerimus), iridesc o flm &amp; fltg o droplets as insol res w/ HCL, total insol org res &lt;5%, uni dk olv gy o stn, infer chlk por</p>	<p>MD 14307 TVD 7040.88 INC 90.15 AZ 0.58 VS 6940.5</p>	<p>CARB CHLK: (80%) med gy - med dk olv wht ip, chlkly txt, blkly, frm - mod hd ip, bcmg cln w/ occ arg chlk, dcrsg imbdd wht nano foss (coccoliths), tr pearly brn calct &amp; arag needles as foss frag (inocerimus), iridesc o flm &amp; fltg o droplets as insol res w/ HCL, total insol org res &lt;5%, uni dk olv gy o stn, infer chlk por</p>
<p>7000</p>		<p>A MARL</p>		
		<p>B CHALK</p>		
		<p>B MARL</p>		
<p>7100</p>				





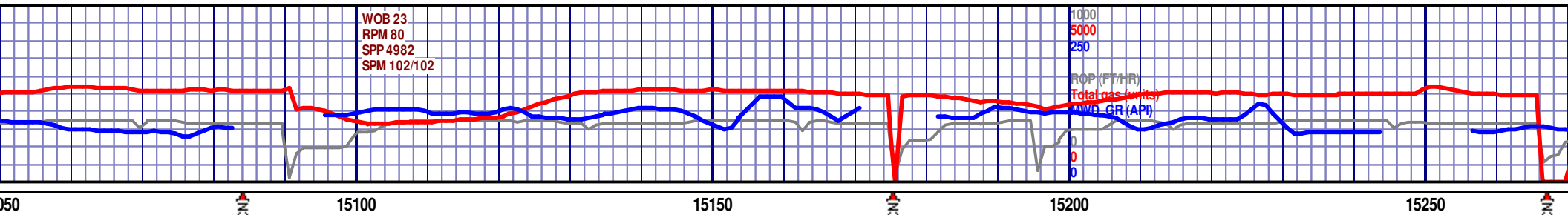
gy, spttd cmg cln oss edles as g o org res	69MD 14401 TVD 7040.68 INC 90.09 AZ 0.68 VS 7033.48	CARB CHLK: (80%) mttld med gy brn- med lt brn gy, chlky txt, chnky-sbplty, frm - mod hd, pred v cln chlk - arg chlk ip, infer chlk por, iridesc o flm & o droplets as insol res w/ HCL, all <5% insol org res, uni gy brn o stn, tr bent  MARL: (20%)	MD 14494 TVD 7040.56 INC 90.06 AZ 0.16 VS 7125.42	CARB CHLK: (90%) mttld med gy brn- med lt brn gy, chlky txt, chnky-sbplty, frm - mod hd, pred v cln chlk - arg chlk ip, infer chlk por, iridesc o flm & o droplets as insol res w/ HCL, all <5% insol org res, uni gy brn o stn, tr bent  MARL: (10%)	MD 14588 TVD 7040.39 INC 90.15 AZ 359.79 VS 7218.24
7000	7000	A MARL	A MARL	A MARL	A MARL
B CHALK	B CHALK	B CHALK	B CHALK	B CHALK	B CHALK
B MARL	B MARL	B MARL	B MARL	B MARL	B MARL
7100	7100	7100	7100	7100	7100



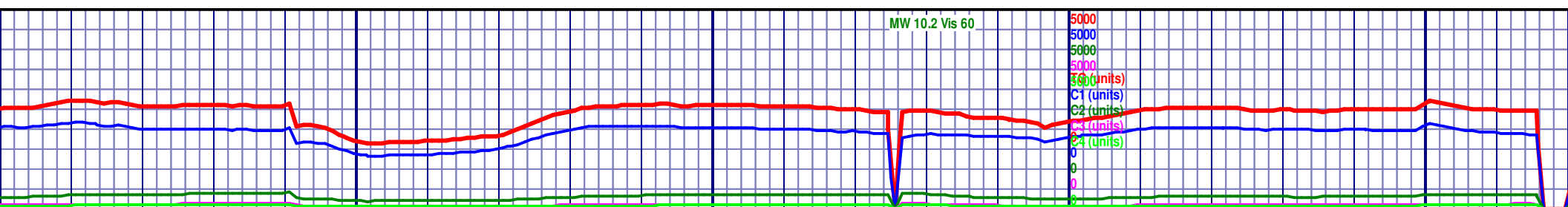




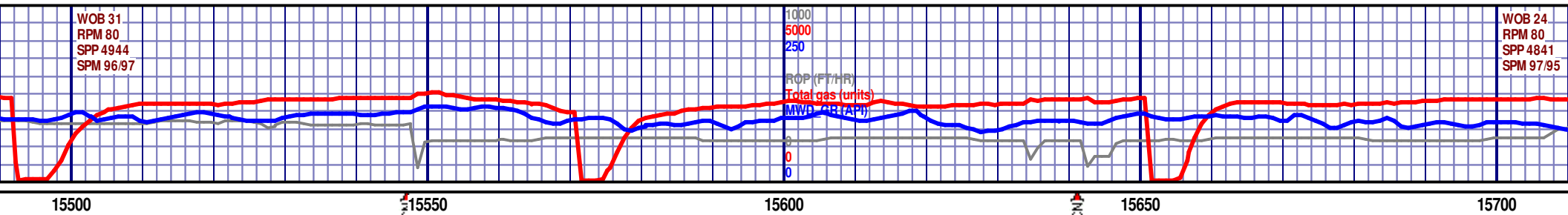




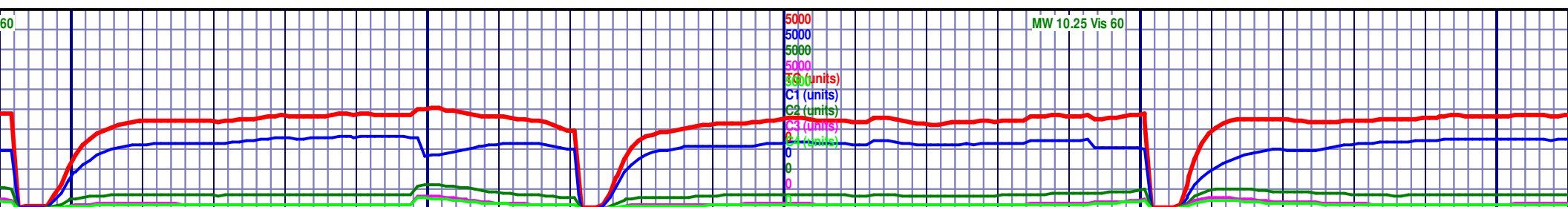
<p>MD 15059 TVD 7039.7 INC 90.09 AZ 1.27 VS 7682.9</p> <p>CARB CHLK: (90%) mtld med gy brn- med lt brn gy, chiky txt, chnky-sbply, frm - mod hd, pred v cln chlk - arg chlk ip, infer chlk por, iridesc o flm &amp; o droplets as insol res w/ HCL, all &lt;5% insol org res, uni gy brn o stn, tr bent</p> <p>MARL: (10%)</p>		<p>MD 15151 TVD 7039.6 INC 90.03 AZ 1.16 VS 7774.04</p> <p>CARB CHLK: (80%) mtld med gy brn- med lt brn gy, chiky txt, chnky-sbply, frm - mod hd, pred v cln chlk - arg chlk ip, infer chlk por, iridesc o flm &amp; o droplets as insol res w/ HCL, all &lt;5% insol org res, uni gy brn o stn, tr bent</p> <p>MARL: (20%)</p>	<p>6900 TVD</p>	<p>MD 15244 TVD 7039.48 INC 90.12 AZ 0.94 VS 7866.13</p> <p>CARB CHLK: (70%) mtld med gy brn- med lt brn gy, chiky txt, chnky-sbply, frm - mod hd, pred v cln chlk - arg chlk ip, infer chlk por, iridesc o flm &amp; o droplets as insol org res, uni gy brn o stn, tr bent</p> <p>MARL: (30%)</p>
<p>7000</p>			<p>7100</p>	

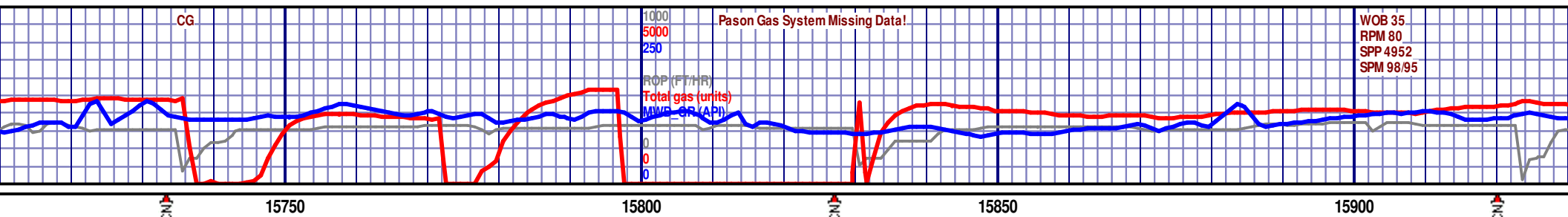




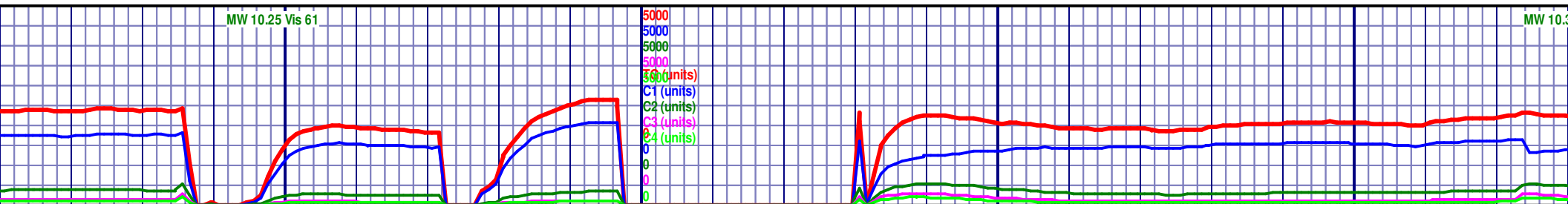


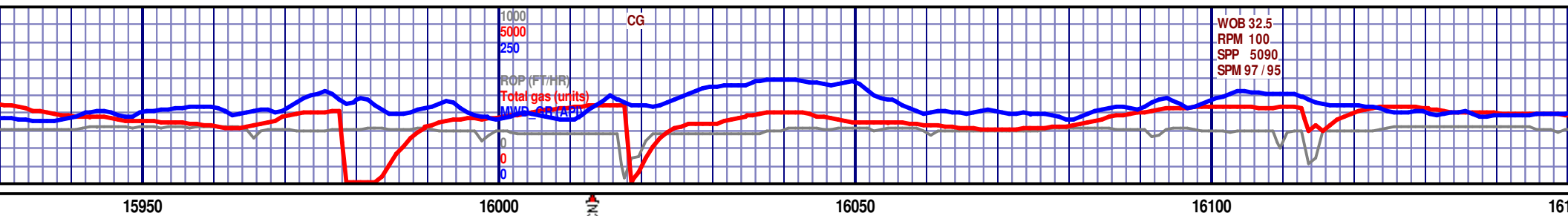
MD 15524 TVD 7039.24 INC 90.06 AZ 4 VS 8144.23		6900 TVD		MD 15617 TVD 7039.14 INC 90.06 AZ 2.15 VS 8236.72	
d lt brn pred v esc o flm insol		CARB CHLK: (60%) mtlld med gy brn- med lt brn gy, chlky txt, chnky-sbplty, frm - mod hd, pred v cln chlk - arg chlk ip, infer chlk por, iridesc o flm & o droplets as insol res w/ HCL, all <5% insol org res, uni gy brn o stn, tr bent  MARL: (40%)		CARB CHLK: (70%) mtlld med gy brn- med lt brn gy, chlky txt, chnky-sbplty, frm - mod hd, pred v cln chlk - arg chlk ip, infer chlk por, iridesc o flm & o droplets as insol res w/ HCL, all <5% insol org res, uni gy brn o stn, tr bent  MARL: (30%)	
A MARL		7000			
B CHALK					
B MARL					
		7100			



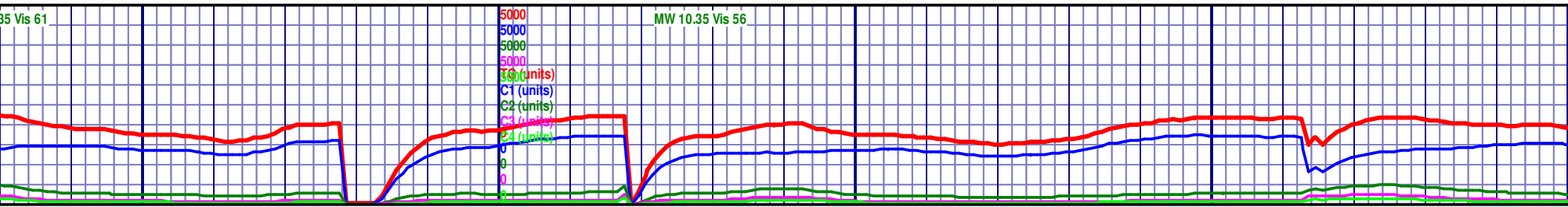


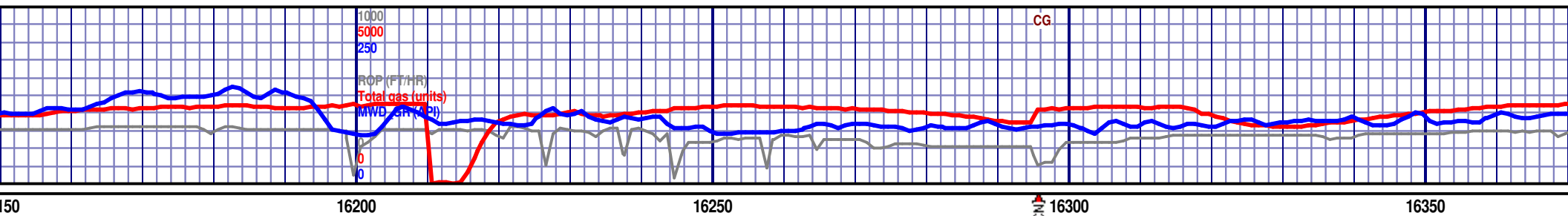
MD 15710 TVD 7038.97 INC 90.15 AZ 358.91 VS 8328.68																				6900 MD 15804 TVD 7038.8 INC 90.06 AZ 358.18 VS 8421.1																				MD 15897 TVD 7038.63 INC 90.15 AZ 357.61 VS 8512.33																			
CARB CHLK: (70%) mtlld med gy brn- med lt brn gy, chlky txt, chnky-sbply, frm - mod hd, pred v cln chlk - arg chlk ip, infer chlk por, iridesc o flm & o droplets as insol res w/ HCL, all <5% insol org res, uni gy brn o stn, tr bent																				CARB CHLK: (70%) mtlld med gy brn- med lt brn gy, chlky txt, chnky-sbply, frm - mod hd, pred v cln chlk - arg chlk ip, infer chlk por, iridesc o flm & o droplets as insol res w/ HCL, all <5% insol org res, uni gy brn o stn, tr bent																				CARB CHLK: (70%) mtlld med gy brn- med lt brn gy, chlky txt, chnky-sbply, frm - mod hd, pred v cln chlk - arg chlk ip, infer chlk por, iridesc o flm & o droplets as insol res w/ HCL, all <5% insol org res, uni gy brn o stn, tr bent																			
MARL: (30%)																				MARL: (30%)																				MARL: (30%)																			
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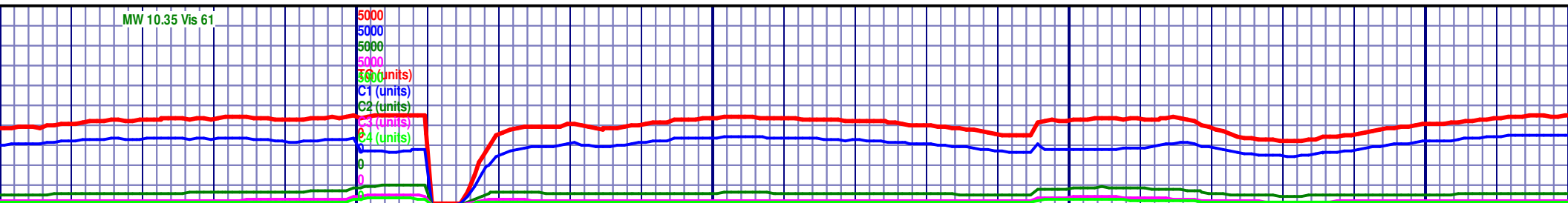


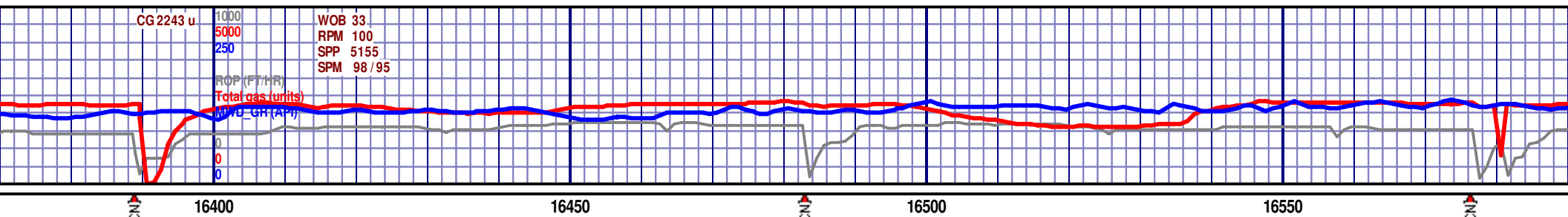
<p>MD 15990 TVD 7038.41 INC 90.12 AZ 357.58 VS 8603.47</p> <p>CARB CHLK: (80%) mttld med gy brn- med lt brn gy, chiky txt, chnky-sbply, frm - mod hd, pred v cln chlk - arg chlk ip, infer chlk por, iridesc o flm &amp; o droplets as insol res w/ HCL, all &lt;5% insol org res, uni gy brn o stn, tr bent</p> <p>MARL: (20%)</p>		<p>MD 16084 TVD 7038.21 INC 90.12 AZ 357.44 VS 8695.57</p> <p>CARB CHLK: (90%) mttld med dk olv gy - med olv gy - med lt gy, chiky txt, chnky - blk - plty, mod hd - frm, pred v cln chlk - arg chlk ip w/ 20-30% cly mtx, infer chlk por, iridesc o flm &amp; fltg o droplets &amp; fltg dk olv mic poly strands of org mtrl (algae) all as insol res w/ HCL, all &lt;5% insol org res, uni - ptchy dk-med olv gy o stn</p> <p>Marl: (10%)</p>	
<p>7090</p> <p>A MARL</p>	<p>7090</p> <p>A MARL</p>	<p>7090</p> <p>A MARL</p>	<p>7090</p> <p>A MARL</p>
<p>B CHALK</p>	<p>B CHALK</p>	<p>B CHALK</p>	<p>B CHALK</p>
<p>7100</p> <p>B MARL</p>	<p>7100</p> <p>B MARL</p>	<p>7100</p> <p>B MARL</p>	<p>7100</p> <p>B MARL</p>



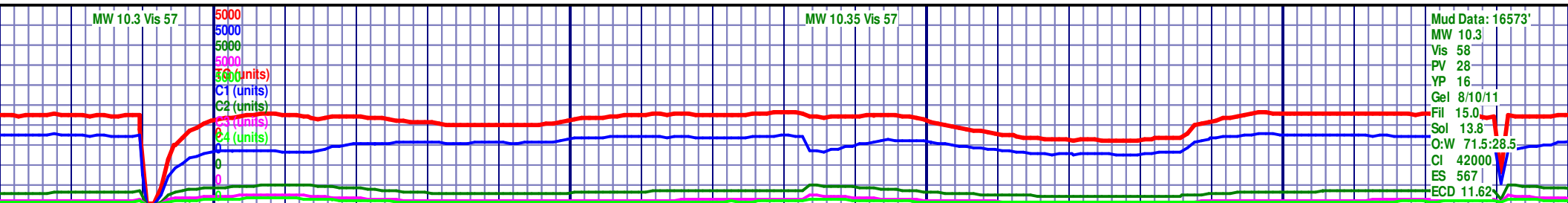


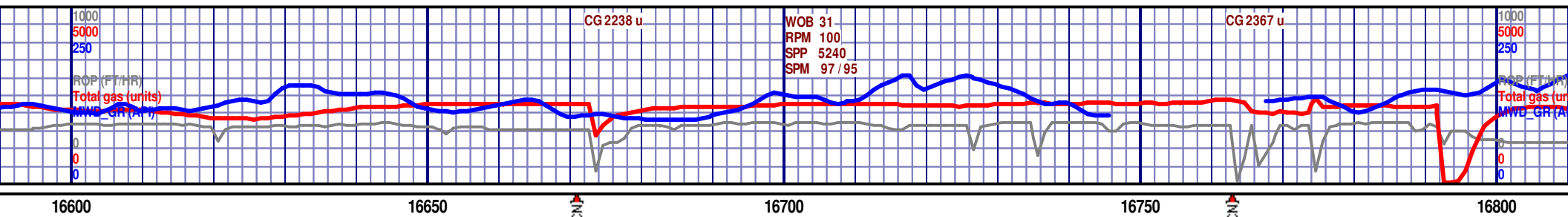
<p>MD 16177 TVD 7038.09 INC 90.03 AZ 357.69 VS 8786.7</p>	<p>6900 TVD</p>	<p>MD 16272 TVD 7037.99 INC 90.09 AZ 357.12 VS 8879.73</p>		<p>MD INC VS 8</p>
<p>CARB CHLK: (100%) mttld med dk olv gy - med olv gy - med lt gy, chlkly txt, chnky - blkly - plty, mod hd - frm, pred v cln chlk - arg chlk ip w/ 20-30% cly mtx, infer chlk por, iridesc o flm &amp; fltg o droplets &amp; fltg dk olv mic poly strands of org mtrl (algae) all as insol res w/ HCL, all &lt;5% insol org res, uni - ptchy dk-med olv gy o stn</p>		<p>CARB CHLK: (100%) mttld med - med lt brn gy, dissem lt olv gy, chlkly txt, chnky - blkly - plty, mod hd - frm, v cln chlk, infer chlk por, tr spttd wht w/ imbdd nano foss (cocoliths), iridesc o flm &amp; fltg o droplets &amp; fltg poly strands of dk olv mic org mtrl (algae), total insol org res w/ HCL &lt;5%, dissem olv gy o stn</p>		<p>CARB CHLK: (100%) dissem lt olv gy, chlkly txt, chnky - blkly - plty, mod hd - frm, v cln chlk, infer chlk por, tr spttd wht w/ imbdd nano foss (cocoliths), iridesc o flm &amp; fltg o droplets &amp; fltg poly strands of dk olv mic org mtrl (algae), total insol org res w/ HCL &lt;5%, dissem olv gy o stn</p>
<p>7090</p>	<p>7100</p>	<p>A MARL B CHALK B MARL</p>		



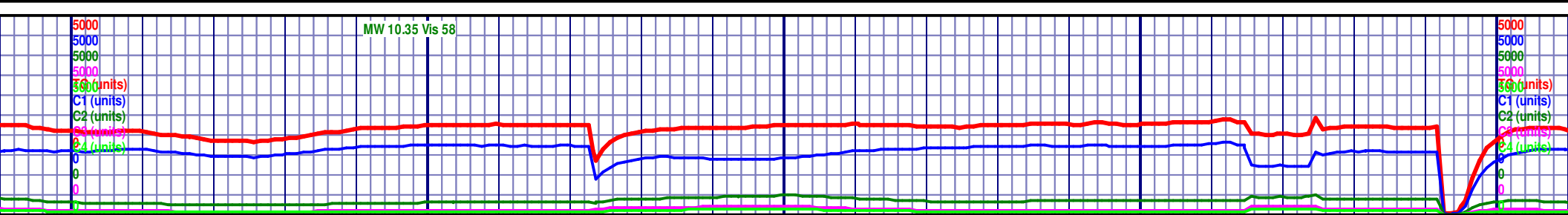


16366 TVD 7037.84 90.09 AZ 356.91 971.66	6900 TVD	MD 16459 TVD 7037.56 INC 90.25 AZ 356.52 VS 9062.51	MD 16553 TVD 7037.24 INC 90.15 AZ 355.83 VS 9154.13
mtld med - med lt brn gy, lky txt, chnky - blk - plty, chlk, infer chlk por, tr spptd foss (coccoliths), iridesc o & fltg poly strands of dk olv total insol org res w/ HCL o str		CARB CHLK: (100%) mtld med - med lt brn gy, dissem lt olv gy, chiky txt, chnky - blk - plty, mod hd - frm, v cln chlk, infer chlk por, tr spptd wht w/ imbdd nano foss (coccoliths), iridesc o flm & fltg o droplets & fltg poly strands of dk olv mic org mtrl (algae), total insol org res w/ HCL <5%, dissem olv gy o str	CARB CHLK: (100%) mtld med - med lt brn gy, dissem lt olv gy, chiky txt, chnky - blk - plty, mod hd - frm, v cln chlk, infer chlk por, , flm & fltg o droplets & fltg poly strands o mic org mtrl (algae), total insol org res w <5%, dissem olv gy o str
7000			
7100			

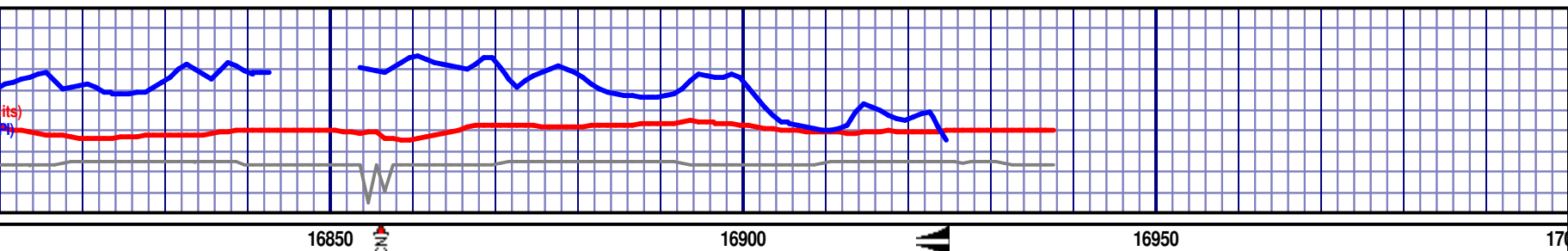




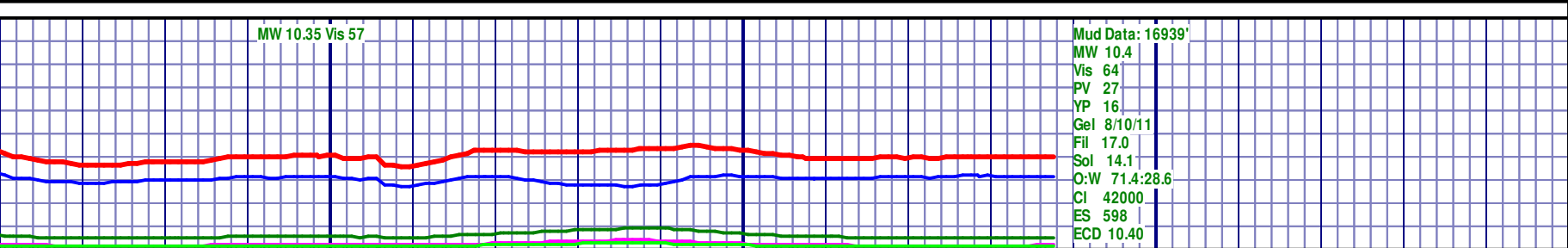
6900 TVD	MD 16648 TVD 7037.06 INC 90.06 AZ 356.49 VS 9246.73	MD 16740 TVD 7036.89 INC 90.15 AZ 358.03 VS 9336.78	6900 TVD
orn gy, - plty, iridesc o f dk olv w/ HCL	CARB CHLK: (100%) mttld med - med dk brn gy, dissem olv gy, chiky txt, chnky - blkly - plty, mod hd - frm, v cln chlk - sl arg chlk ip, infer chlk por, iridesc o flm & fltg o droplets & fltg poly strands of dk olv mic org mtrl (algae), total insol org res w/ HCL <5%, dissem olv gy o stn		
7090	A MARL B CHALK B MARL		7090
7100			7100







<p>MD 16832 TVD 7036.7 INC 90.09 AZ 359.98 VS 9427.36</p>		<p>MD 16915 TVD 7036.53 INC 90.15 AZ 1.82 VS 9509.52</p>																													
	<p>CARB CHLK: (70%) mttld med dk olv gy - med olv gy - med lt gy, chlky txt, chnky - blk - plty, mod hd - frm, pred v cln chlk - arg chlk ip w/ 20-30% cly mtx, infer chlk por, iridesc o flm &amp; fltg o droplets &amp; fltg dk olv mic poly strands of org mtrl (algae) all as insol res w/ HCL, all &lt;5% insol org res, uni - ptchy dk-med olv gy o stn</p>																														
	<p>Marl: (30%)</p>		<p>DMTD 16939' reached 6:45 pm, 11/03/16</p>																												
			<p>Formation Tops Picked by Wellsite Geologist Ryan Scribner &amp; Phillip Willcox (GBA)</p>																												
<p>Sharon Springs Nio A Chalk Nio A Marl Nio B Chalk DMTD 1/2" Casing</p>			<table border="1"> <thead> <tr> <th></th><th>MD</th><th>TVD</th><th>SSD</th></tr> </thead> <tbody> <tr> <td>Sharon Springs</td><td>7167'</td><td>6862'</td><td>-2093'</td></tr> <tr> <td>Nio A Chalk</td><td>7223'</td><td>6902'</td><td>-2133'</td></tr> <tr> <td>Nio A Marl</td><td>7250'</td><td>6920'</td><td>-2151'</td></tr> <tr> <td>Nio B Chalk</td><td>7564'</td><td>7025'</td><td>-2256'</td></tr> <tr> <td>DMTD</td><td>16939'</td><td>7056'</td><td>-2287' 5</td></tr> <tr> <td>1/2" Casing</td><td>16925'</td><td>7056'</td><td>-2287'</td></tr> </tbody> </table>		MD	TVD	SSD	Sharon Springs	7167'	6862'	-2093'	Nio A Chalk	7223'	6902'	-2133'	Nio A Marl	7250'	6920'	-2151'	Nio B Chalk	7564'	7025'	-2256'	DMTD	16939'	7056'	-2287' 5	1/2" Casing	16925'	7056'	-2287'
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		<p>Mudlog is approximately on depth w/ Synergy Geostearng X-section, 16393' MD, 18:45, 11.03.16</p>																													



MW 10.35 Vis 57

Mud Data: 16939'  
MW 10.4  
Vis 64  
PV 27  
YP 16  
Gel 8/10/11  
Fil 17.0  
Sol 14.1  
O:W 71.4:28.6  
Cl 42000  
ES 598  
ECD 10.40