

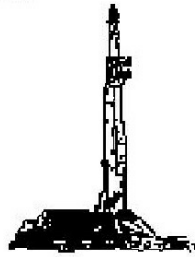
# **G**OOLSBY BROTHERS and associates, inc.

575 Union Blvd, Suite 208  
Lakewood, CO 80228  
303-945-2860 Office



Geological Wellsite  
Supervision

[www.goolsbybrothers.com](http://www.goolsbybrothers.com)



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

Well Name: Falken 4N-14C-S  
API: 051234512400  
Location: NE/SE Section 11 T6N R66W Weld County, CO.  
License Number: Region: Wattenberg  
Spud Date: December 17, 2017 Drilling Completed: December 20, 2017  
Surface Coordinates: 1679'FSL & 276'FEL NE/SE Sec.11 T6N R66W  
Lat/Long: 40°30'00.648"N/ 104°44'09.427"W  
Bottom Hole Planned: 789'FNL & 460'FWL, SEC.14 T6N R66W  
Coordinates:  
Ground Elevation (ft): 4,810' K.B. Elevation (ft): 4,835'  
Logged Interval (ft): 7000' To: 13,278' Total Depth (ft): 13,278' DMTD  
Formation: Niobrara C Chalk  
Type of Drilling Fluid: OBM (LSND Surface).  
Printed by HORIZONTAL.LOG from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

### OPERATOR

Company: SRC Energy, Inc Geologist Tom Jacaruso  
Address: 1675 Broadway, Suite 2600  
Denver, Colorado 80202  
(720) 616-4300

### GEOLOGIST

Name: Tekabe Gedamu & Dallan Gardner  
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

MWD GR from S.C. to 13,260' MD

### Casing

9 5/8" Surface Casing pre set @ 1800' MD.  
5 1/2" Production Liner run on 12/21/2017 set at 13,262' MD.

## Comments

- 1) Drilling Contractor: Precision Drilling, Rig #562  
Pumps 1&2: Rostell F-1600 5" x 12" (.0692 Bbls./stroke)  
Toolpusher: Michael Ellingsworth, Tyson Westgard.
- 2) Company Man: Kent Priddy  
Kevin Brakovec  
Tim Jones  
Kalib Ford
- 3) Mud Comapny : Reliable Drilling Fluids  
Engineer: Wally Yates, Scott Allen
- 4) Directional Drilling: Baker Hughes  
Drillers: Jeremiah Samson, Aaron Herskind  
MWD: Matthew Leopold, Garrett Gersden, Baker Remote Field Operations.
- 5) Gas Equipment: Pason Gas Analyzer (Spectrometer)

## ROCK TYPES

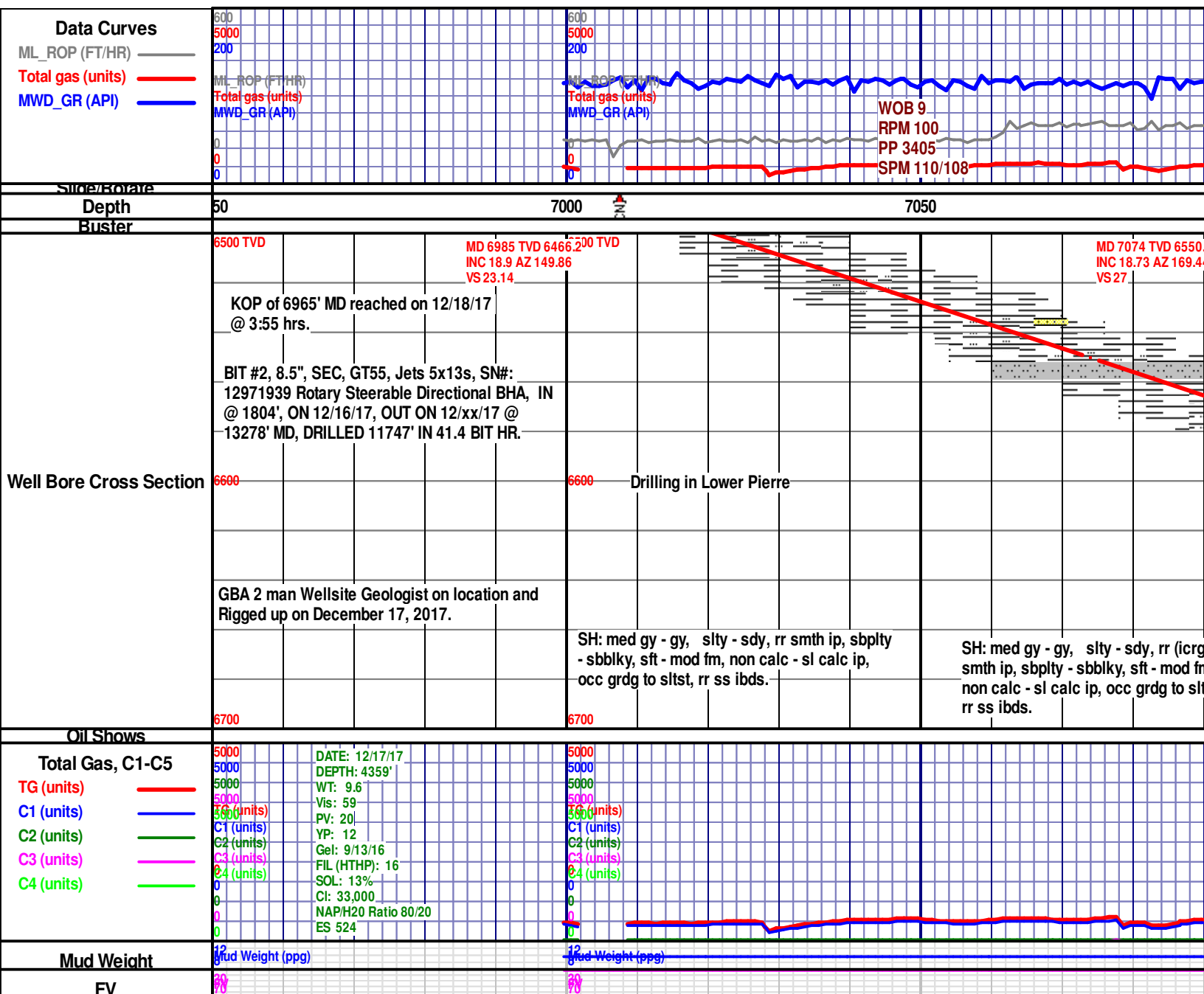
	Bent		Dol		Mrlst_sh (intbdd)		Carb sh
	Cht		Lmst		Shale		Ss
	Clyst		Chalk		Shgy		Sltst
	Oil sat.		Mrlst		Silty sh		

## ACCESSORIES

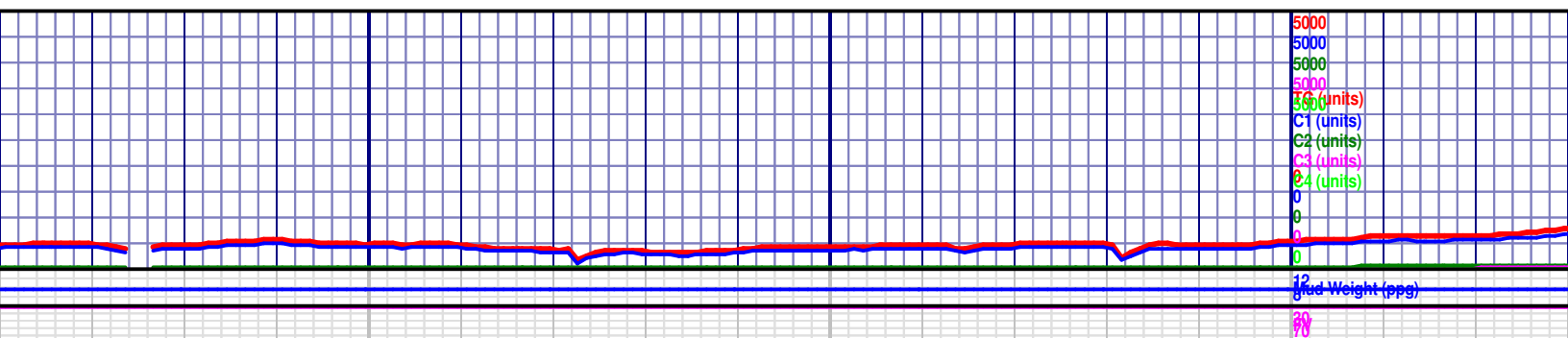
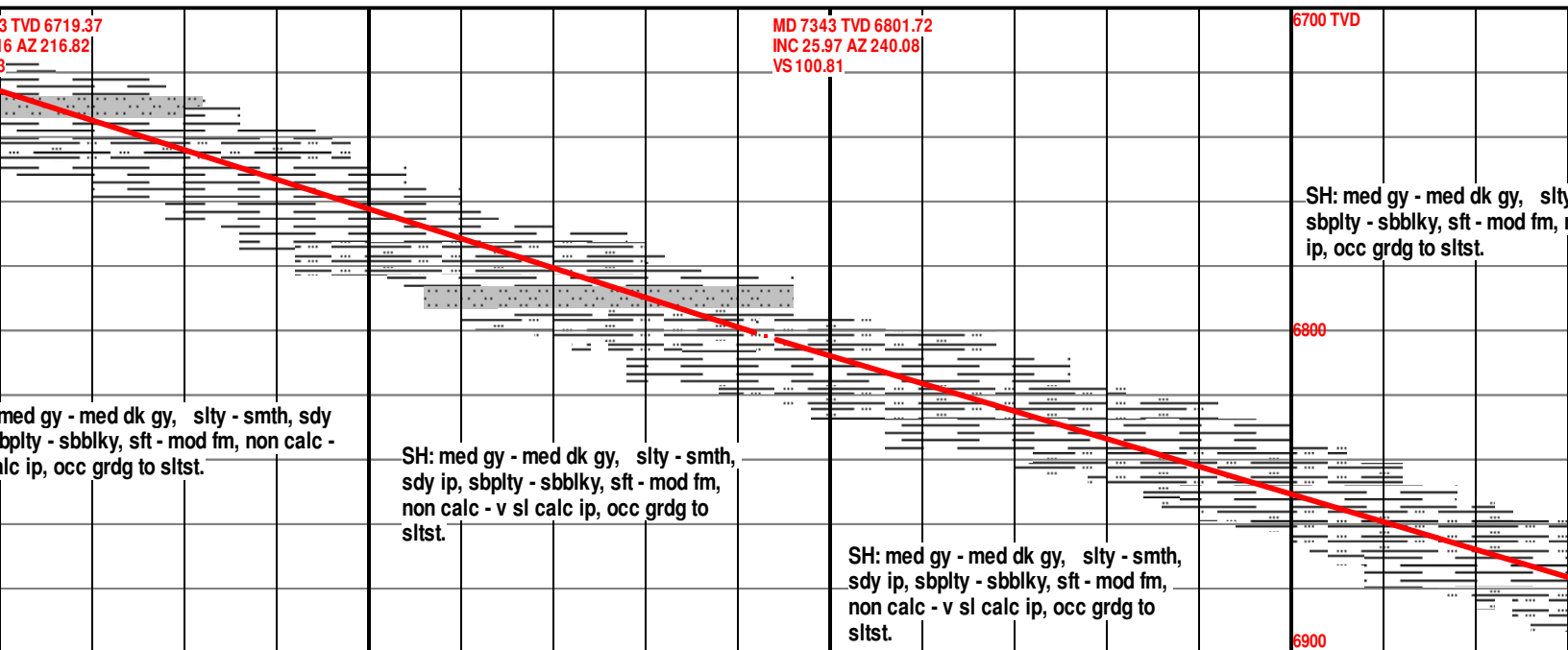
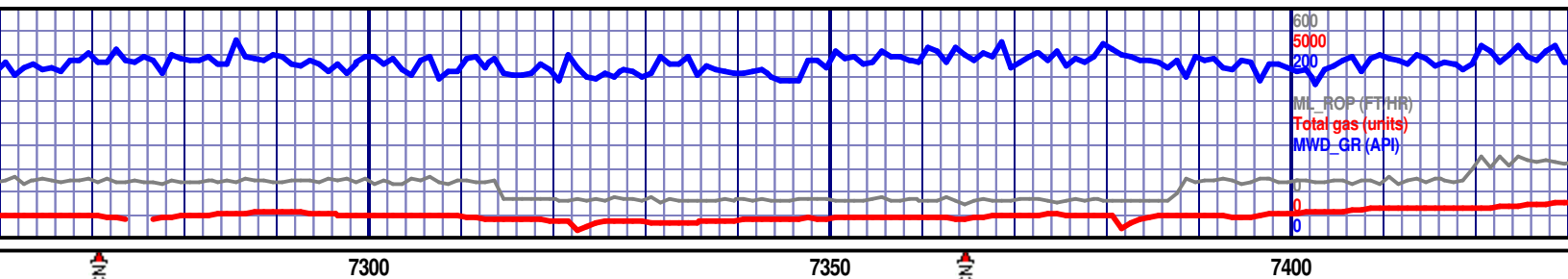
MINERAL							
	Anhy		Marl		Cephal		Bent
	Arggrn		Minxl		Coral		Dol
	Arg		Nodule		Crin		Ls
	Bent		Phos		Echin		Mrst
	Bit		Pyr		Fish		Sltstrg
	Brecfrag		Salt		Foram		Ssstrg
	Calc		Sandy		Fossil		
	Carb		Silt		Gastro	TEXTURE	
	Chtdk		Sil		Oolite		Boundst
	Chtlt		Sulphur		Ostra		Chalky
	Dol		Tuff		Pelec		Cryxln
	Feldspar	FOSSIL			Pellet		Earthy
	Ferrpel		Algae		Pisolite		Finexln
	Ferr		Amph		Plant		Grainst
	Glau		Belm		Strom		Lithogr
	Gyp		Bioclst	STRINGER			Microxln
	Hvymin		Brach		Chlkstg		Mudst
	Kaol		Bryozoa		Arg		Packst
							Wackest

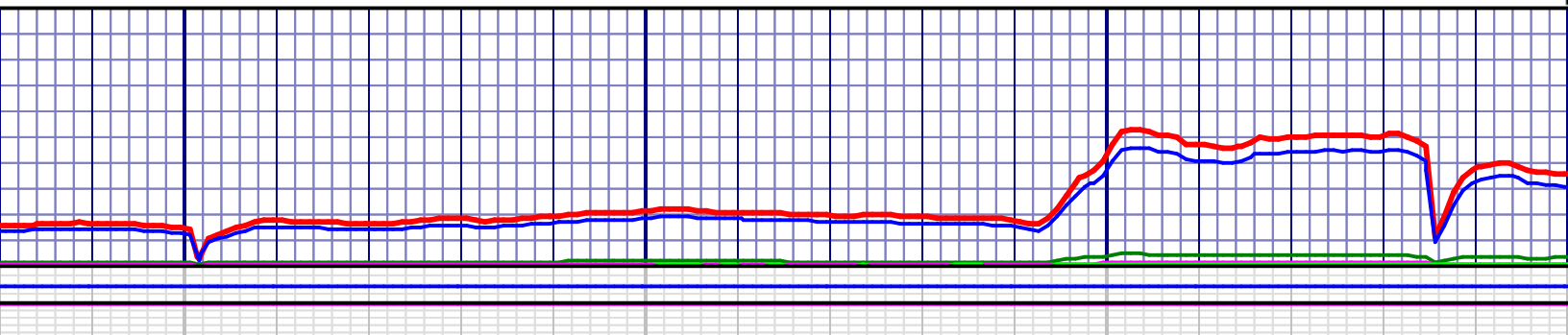
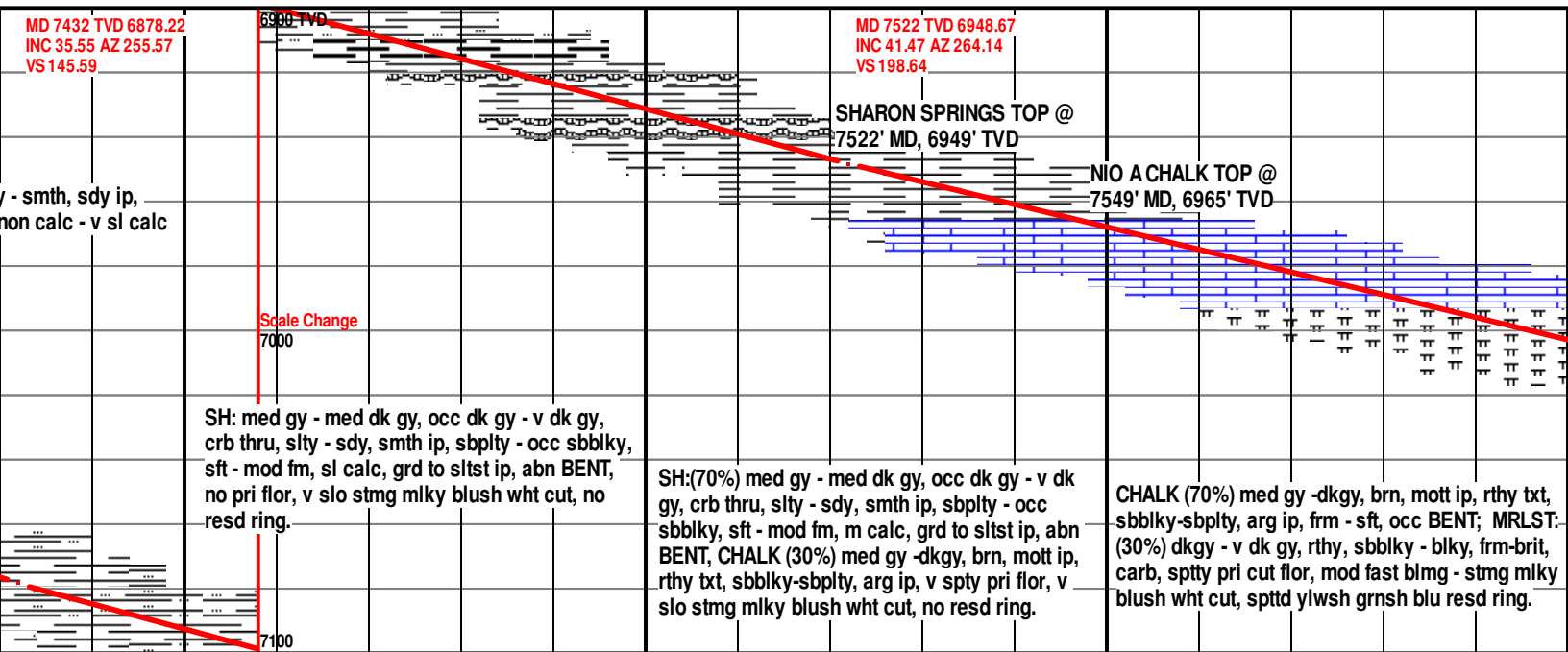
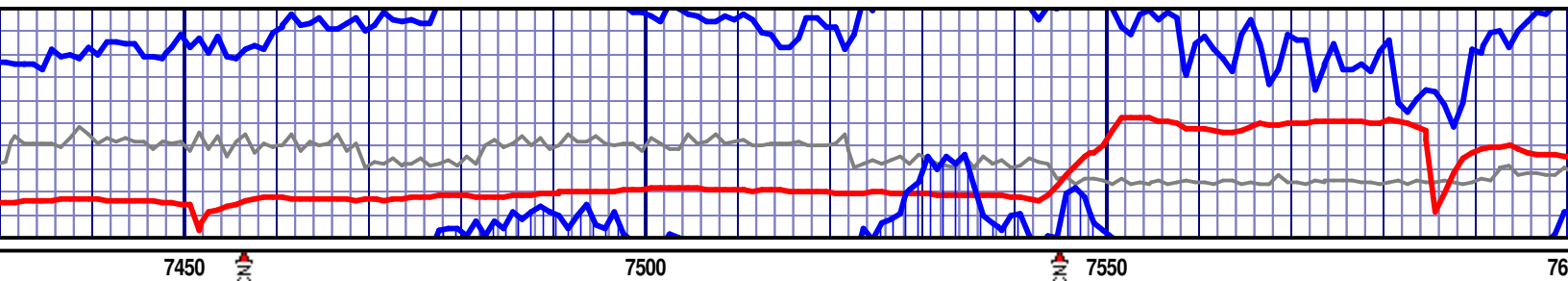
## OTHER SYMBOLS

OIL SHOWS		POROSITY TYPE					
	Even		Earthy		Pinpoint		Angular
	Spotted		Fenest		Vuggy		
	Ques		Fracture	ROUNDING		SORTING	
	Dead		Inter		Rounded		Well
	Vspotty		Moldic		Subrnd		Moderate
	near even		Organic		Subang		Poor

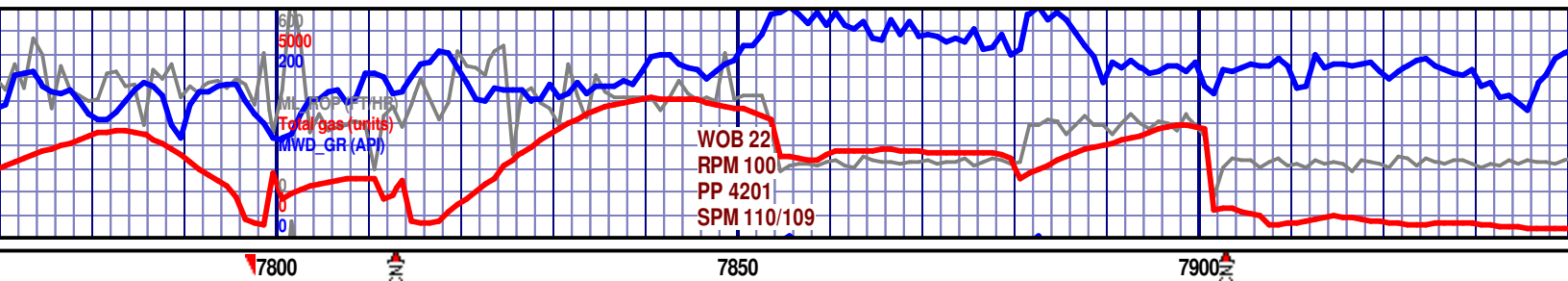




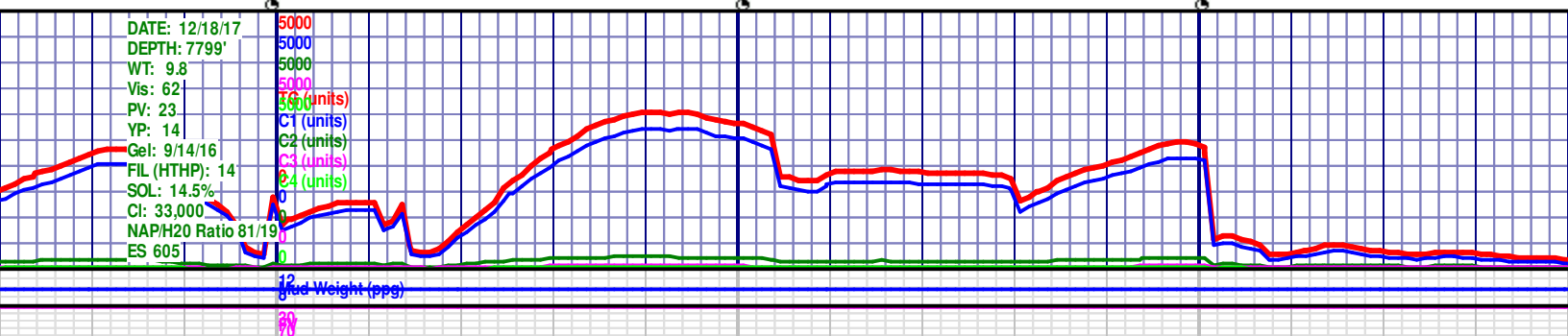




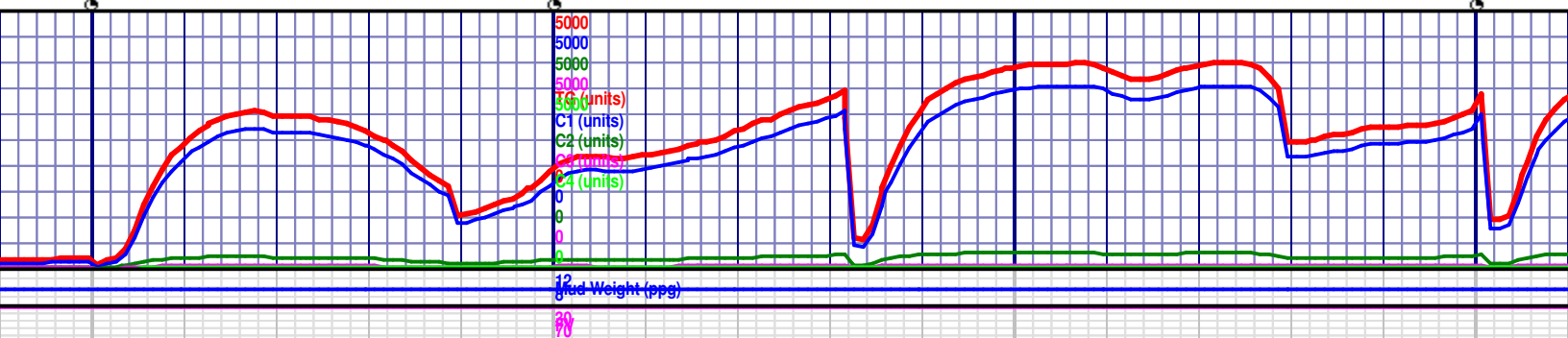
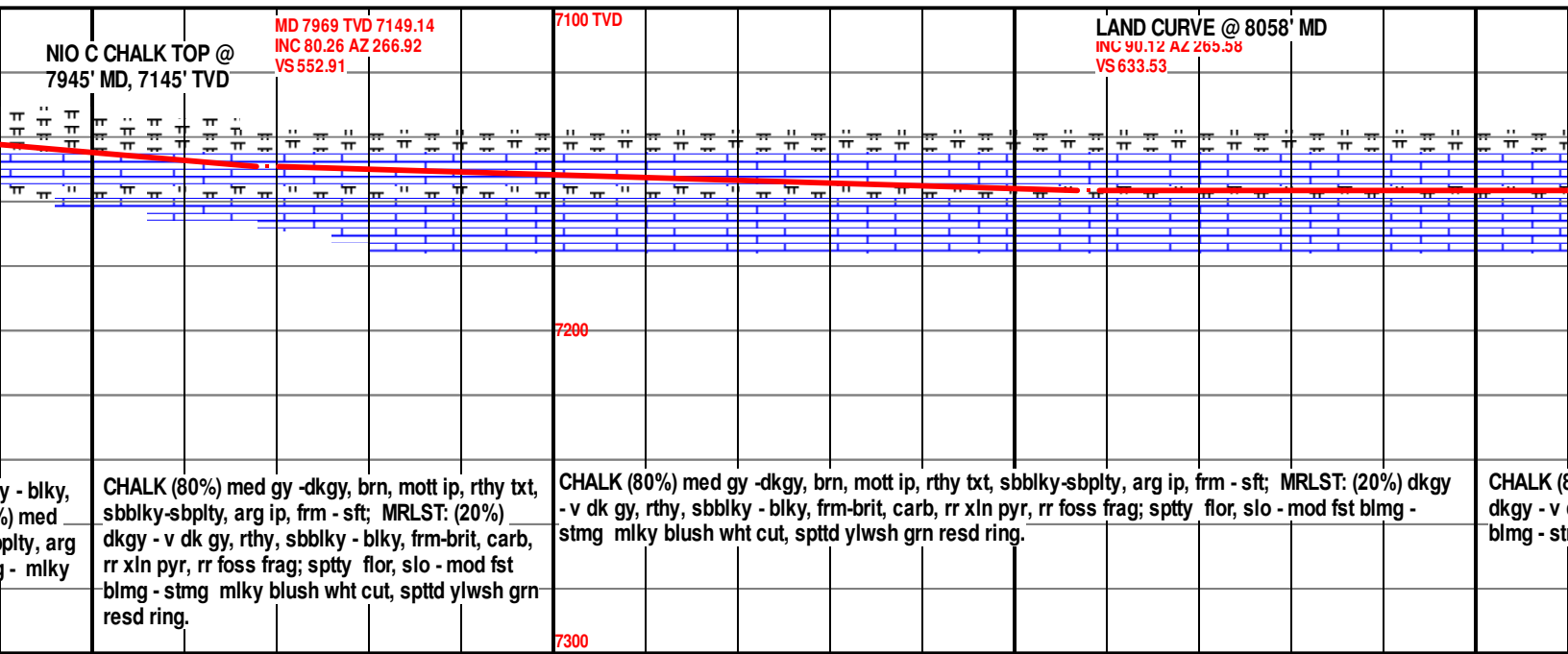
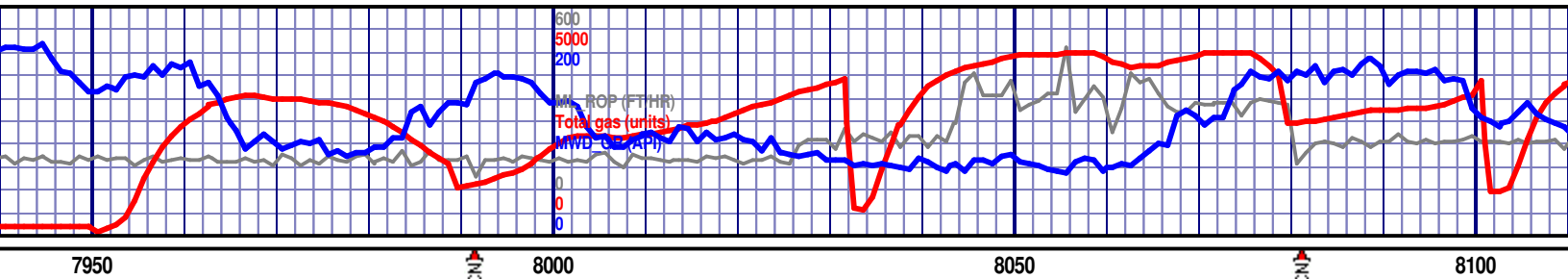




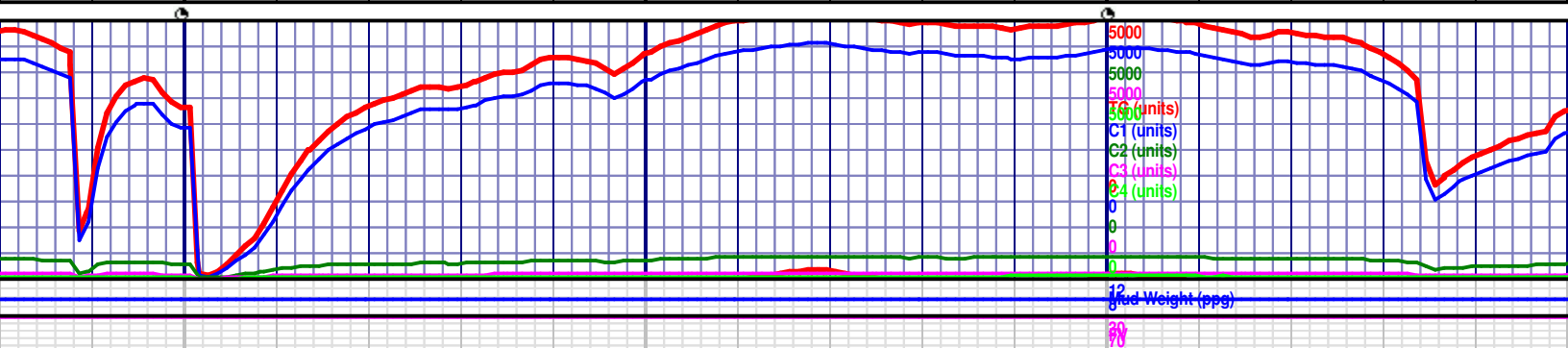
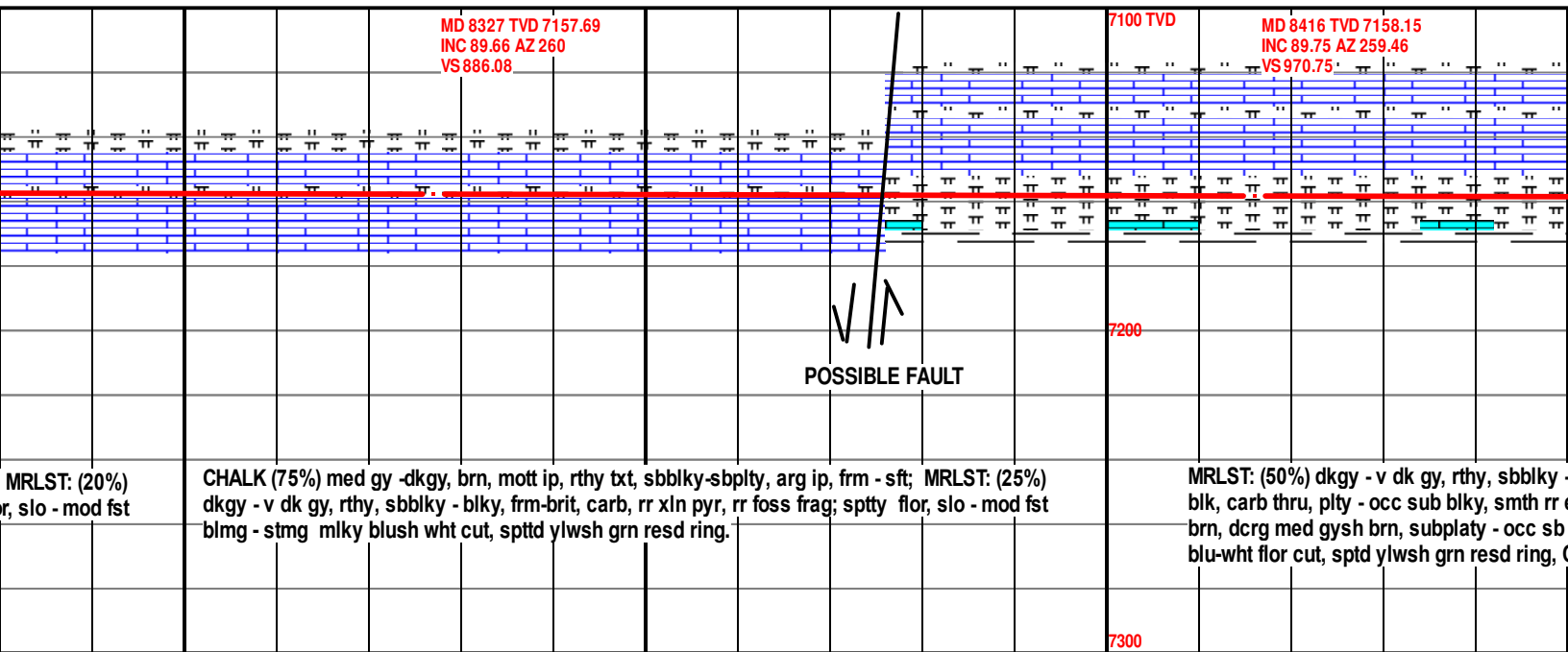
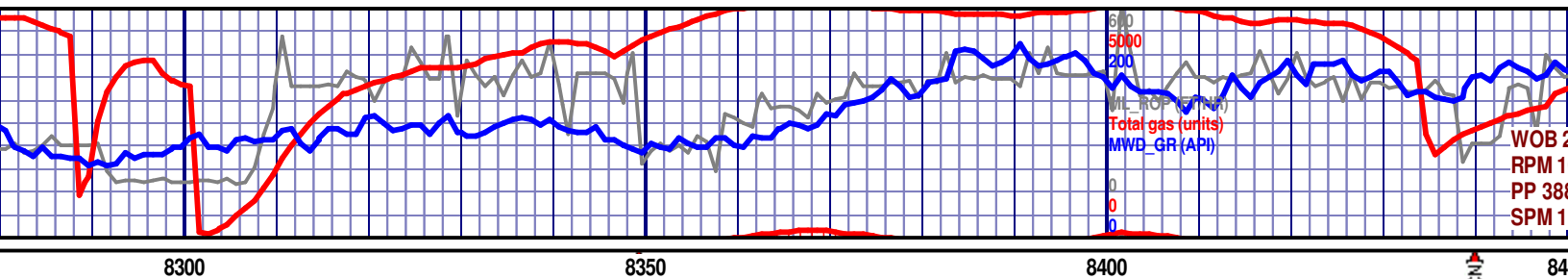
<p>MD 7790 TVD 7097.73 INC 68.69 AZ 267.37 VS 398.76</p> <p>12/19/2017</p> <p>1. SHORT TRIP TO KOP (6925') TO REPAIR PIPE WASH. 2. TOOH TO THE SHOE, COULDNT CIRCULATE.</p> <p>- v dk gy, rthy, sbblky - rr cal frac fill; CHALK y, brn, mott ip, rthy txt, p, frm - sft; sptty flor, slo - y blush wht cut, spttd ; BENT: (tr) v lt gy, sft, yel</p> <p>Scale Change 7200</p>	<p>MD 7880 TVD 7127.91 INC 72.12 AZ 267.91 VS 475.05</p> <p>MRLST: (80%) dkgy - v dk gy, rthy, sbblky - blk, frm-brit, carb, rr cal frac fill; CHALK (20%) med gy -dkgy, brn, mott ip, rthy txt, sbblky-sbply, arg ip, frm - sft; sptty flor, slo - mod fst blmg - mlky blush wht cut, spttd grnsh blu resd ring.</p>	<p>MRLST: (80%) dkgy - v dk gy, rthy, sbblky - blk, frm-brit, carb, rr cal frac fill; CHALK (20%) med gy -dkgy, brn, mott ip, rthy txt, sbblky-sbply, arg ip, frm - sft; sptty flor, slo - mod fst blmg - mlky blush wht cut, spttd grnsh blu resd ring.</p>	<p>MRLST: (60%) dkgy - v dk gy, rthy, sbblky - frm-brit, carb, rr cal frac fill; CHALK (40%) gy -dkgy, brn, mott ip, rthy txt, sbblky-sb ip, frm - sft; sptty flor, slo - mod fst blmg blush wht cut, spttd grnsh blu resd ring.</p>
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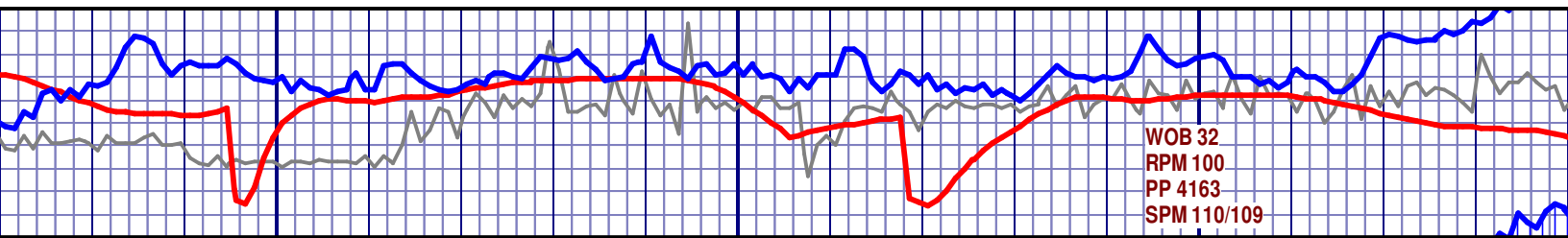










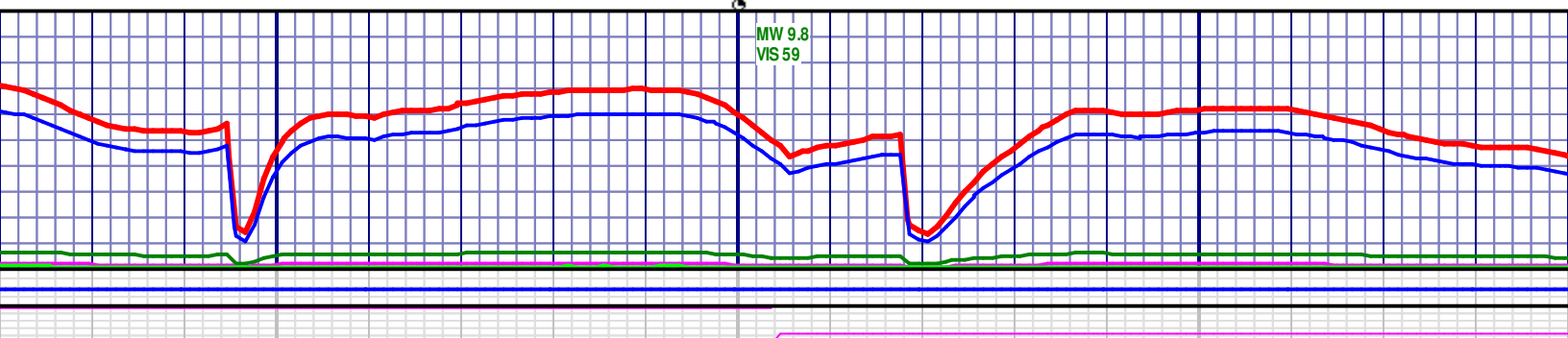


8650

8700

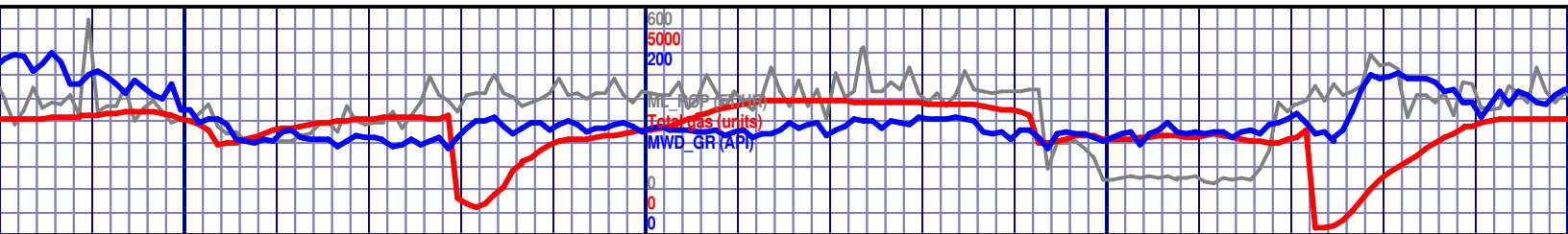
8750

MD 8685 TVD 7161.11 INC 90.28 AZ 268.47 VS 1222.05										MD 8774 TVD 7160.9 INC 90.28 AZ 268.9 VS 1301.39									
- v dk gy, rthy, sbblky - blk, frm-brit, carb, rr xln pyr; CHALK (20%) med gy rthy txt, sbblky-sbply, arg ip, frm - sft; spty flr, slo - mod fst blmg - stng mlky ylwsh grn resd ring.										MRLST: (80%) dkgy - v dk gy, rthy, sbblky - blk, frm-brit, carb, rr xln pyr; CHALK (20%) me -dkgy, brn, mott ip, rthy txt, sbblky-sbply, arg ip, frm - sft; spty flr, slo - mod fst blmg - s mlky blush-wht cut, sptd ylwsh grn resd ring.									

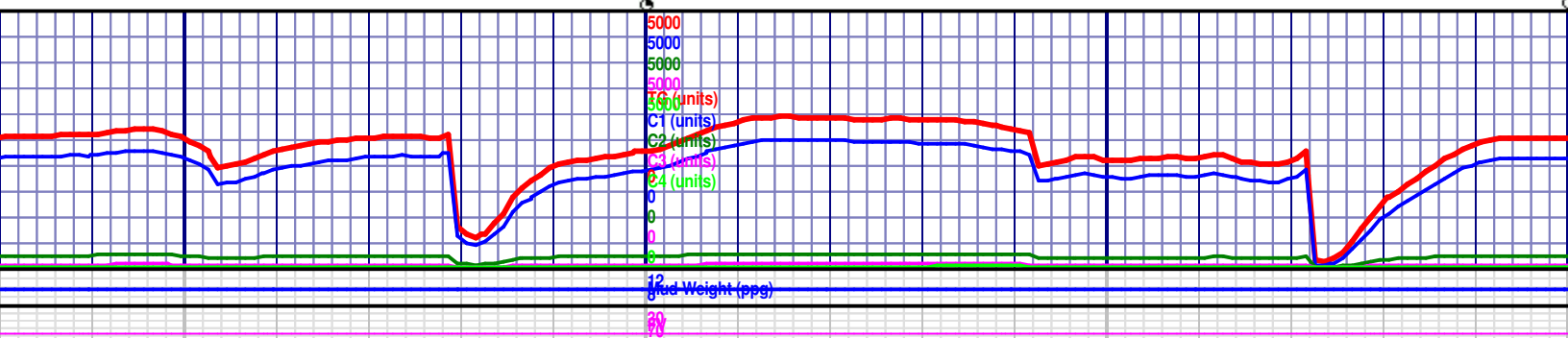




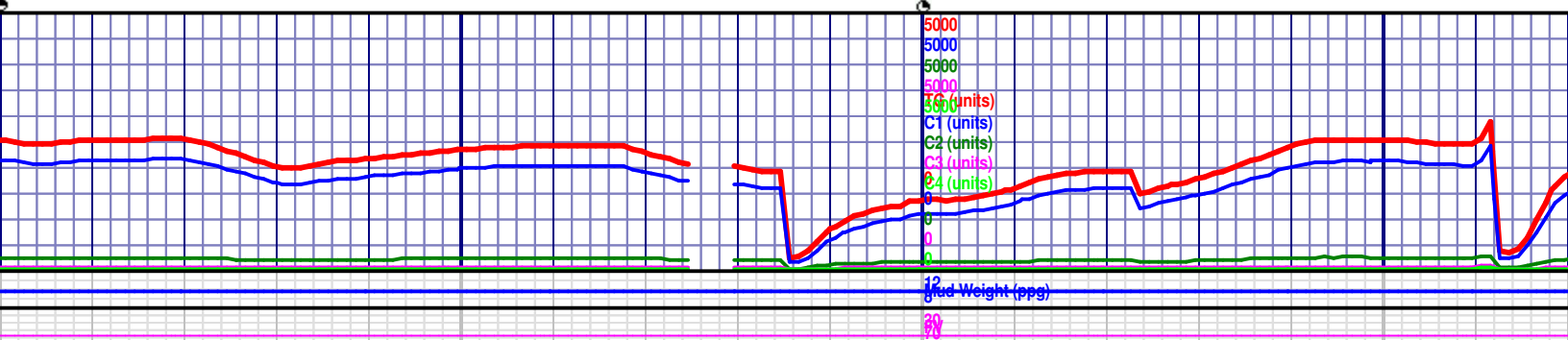
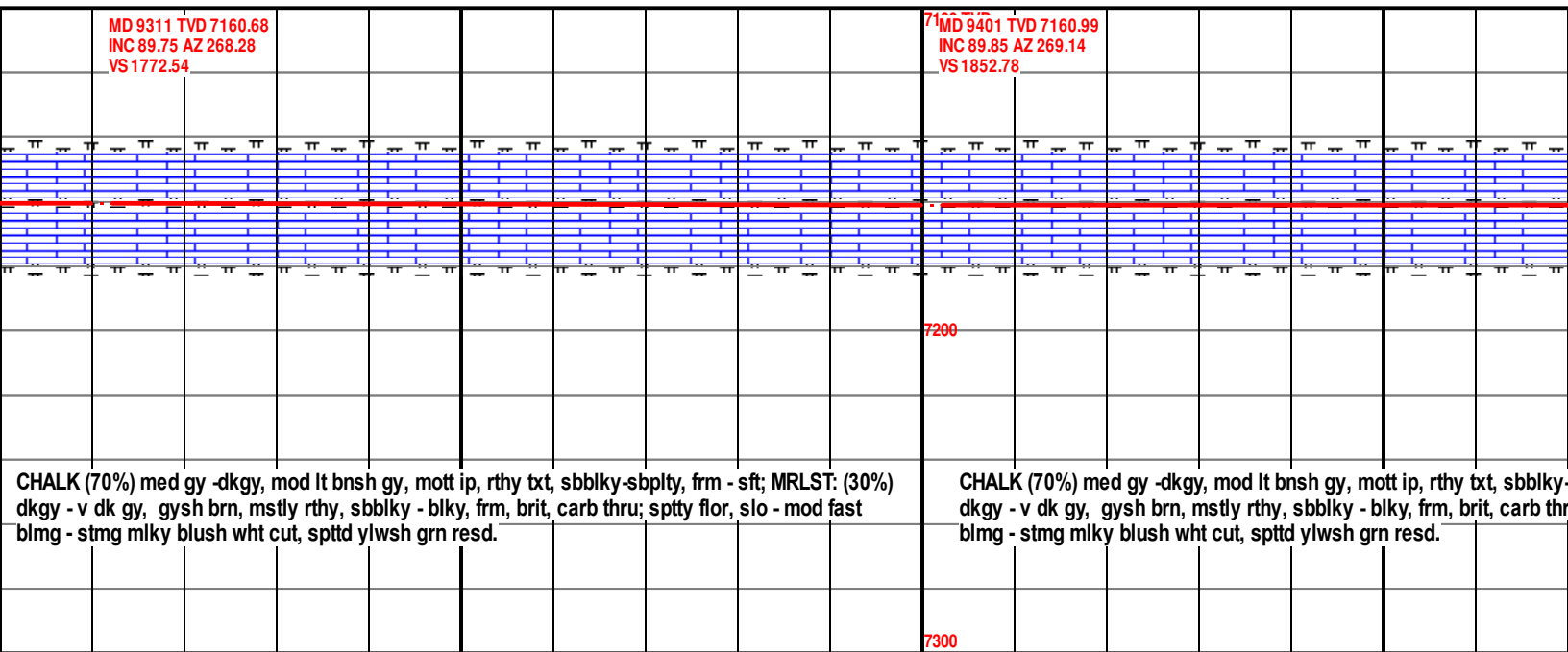




<p>MD 9132 TVD 7160.13 INC 89.85 AZ 272.32 VS 1614.56</p> <p>mod lt bnsh gy, mott ip, rthy txt, sbblky-sbply, frm - sft; MRLST: (40%) tly rthy, sbblky - blkly, frm, brit, carb thru; spty flor, slo - mod fast blmg mtd ylsh grn resd.</p>	<p>7100 TVD</p> <p>7200</p> <p>7300</p>	<p>MD 9222 TVD 7160.37 INC 89.85 AZ 269.29 VS 1693.24</p> <p>CHALK (60%) med gy -dkgy, mod lt bnsh gy, mott ip, rthy txt, sbblky-sbply, frm - sft; MRLST: (40%) dkgy - v dk gy, gysh brn, mstly rthy, sbblky - blkly, frm, brit, carb thru; spty flor, slo - mod fast blmg - stmg milky blush wht cut, spttd ylsh grn resd.</p>
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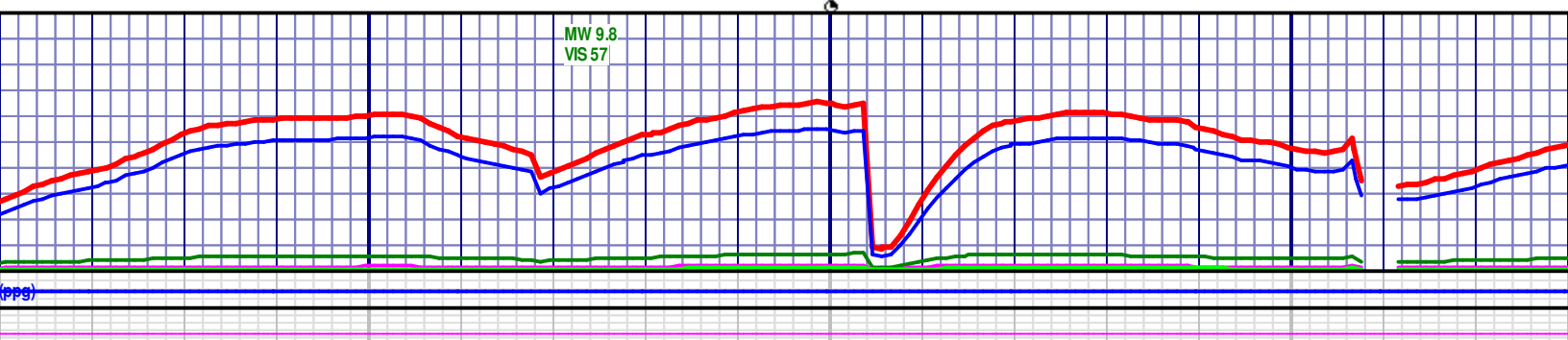
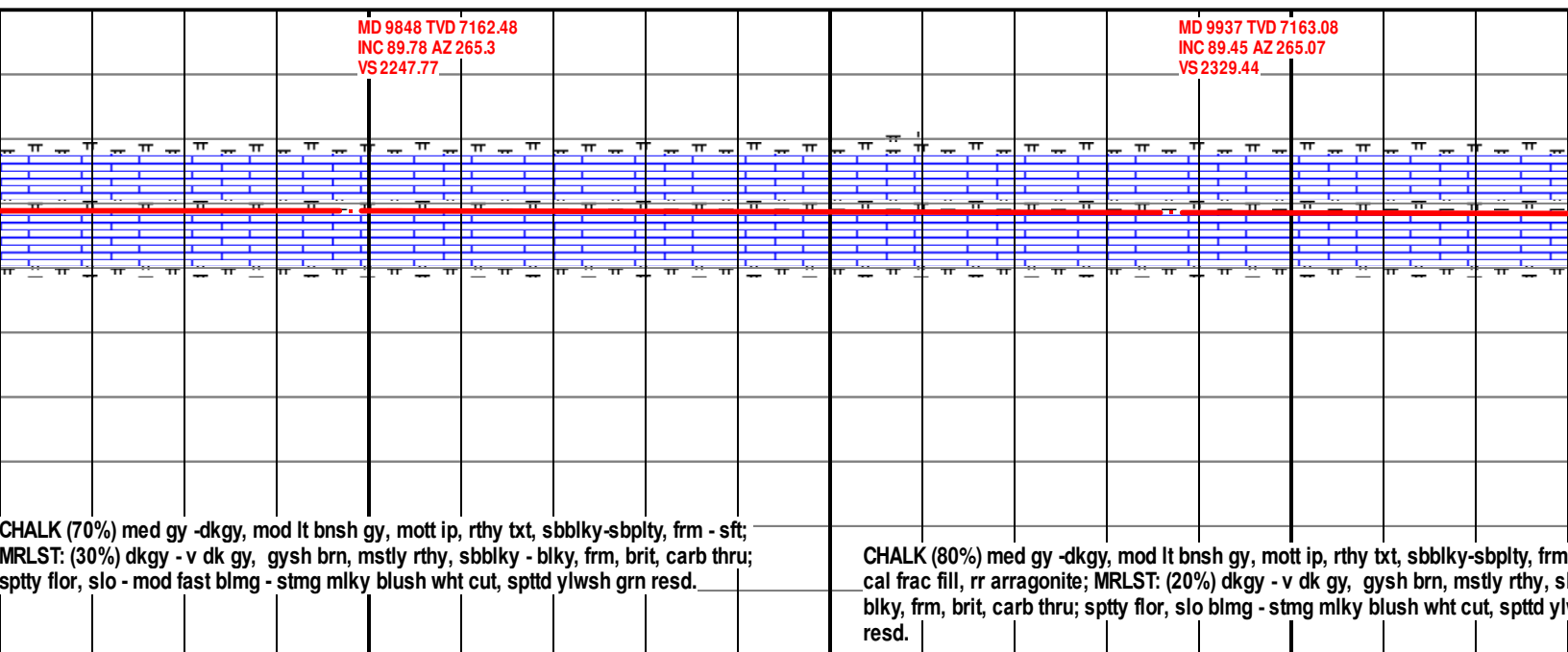
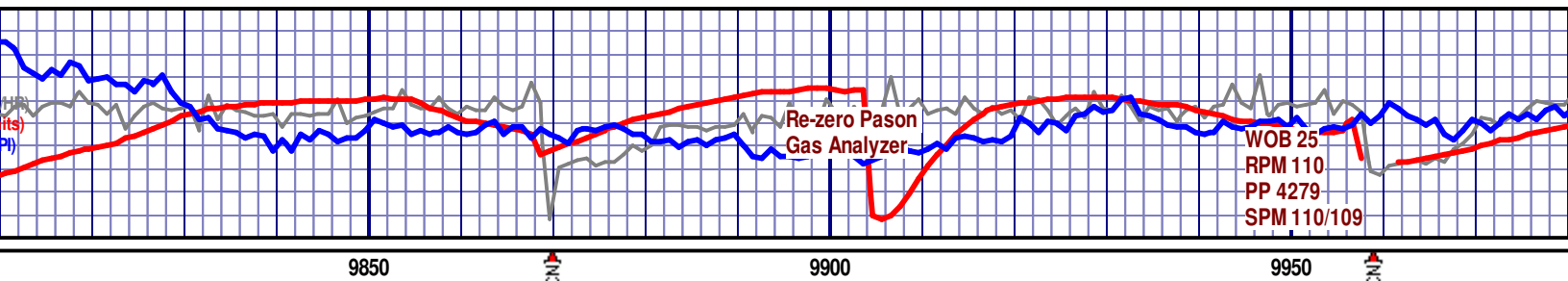


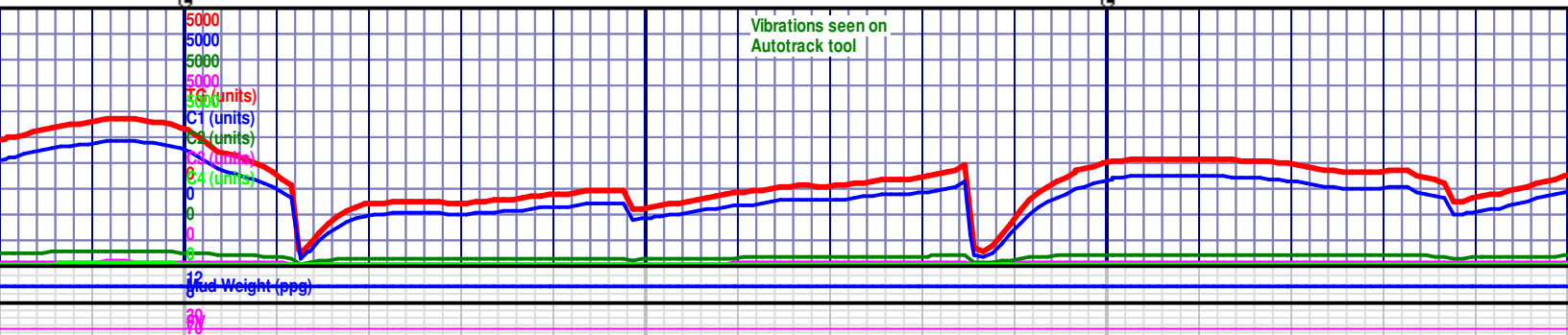
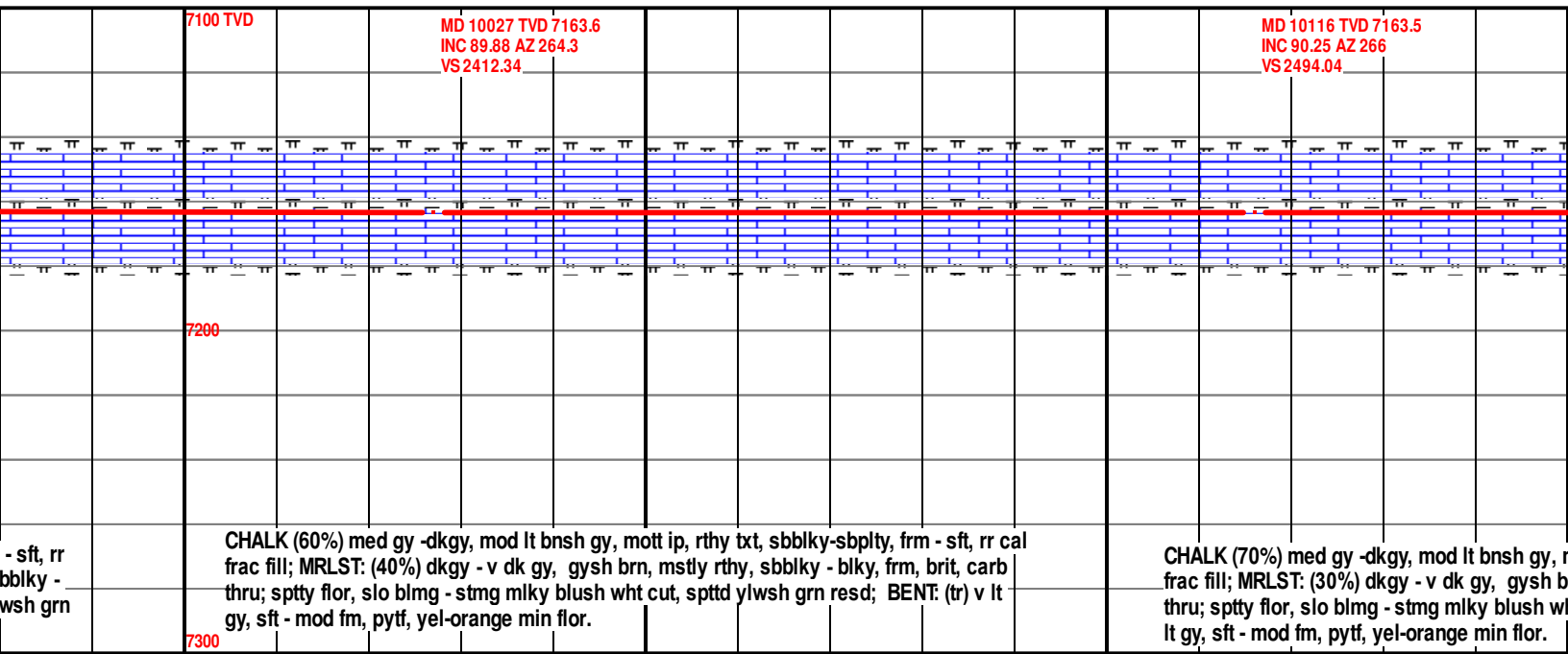
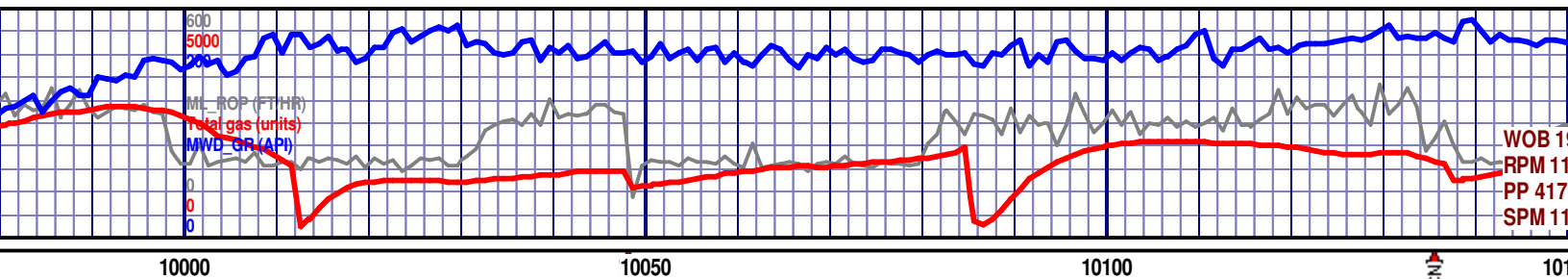




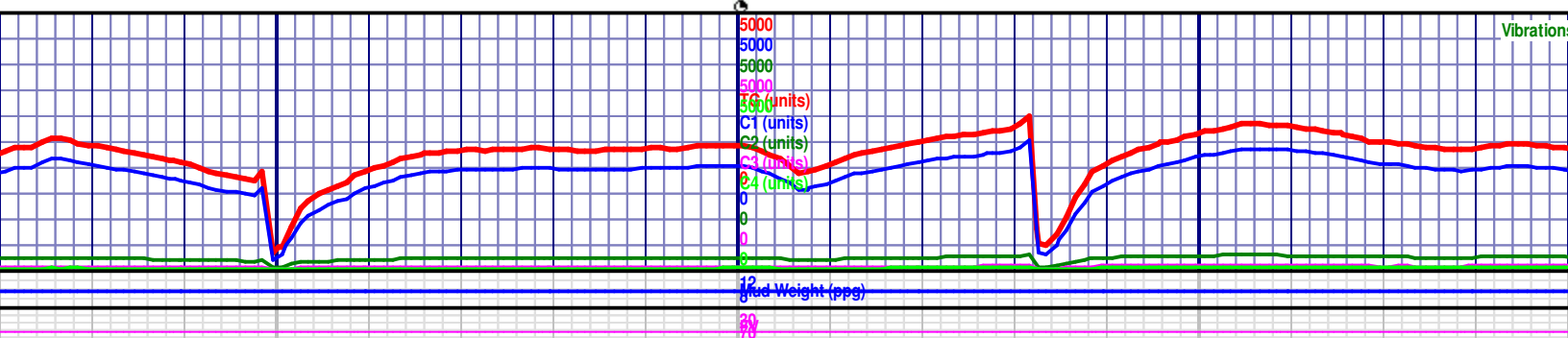
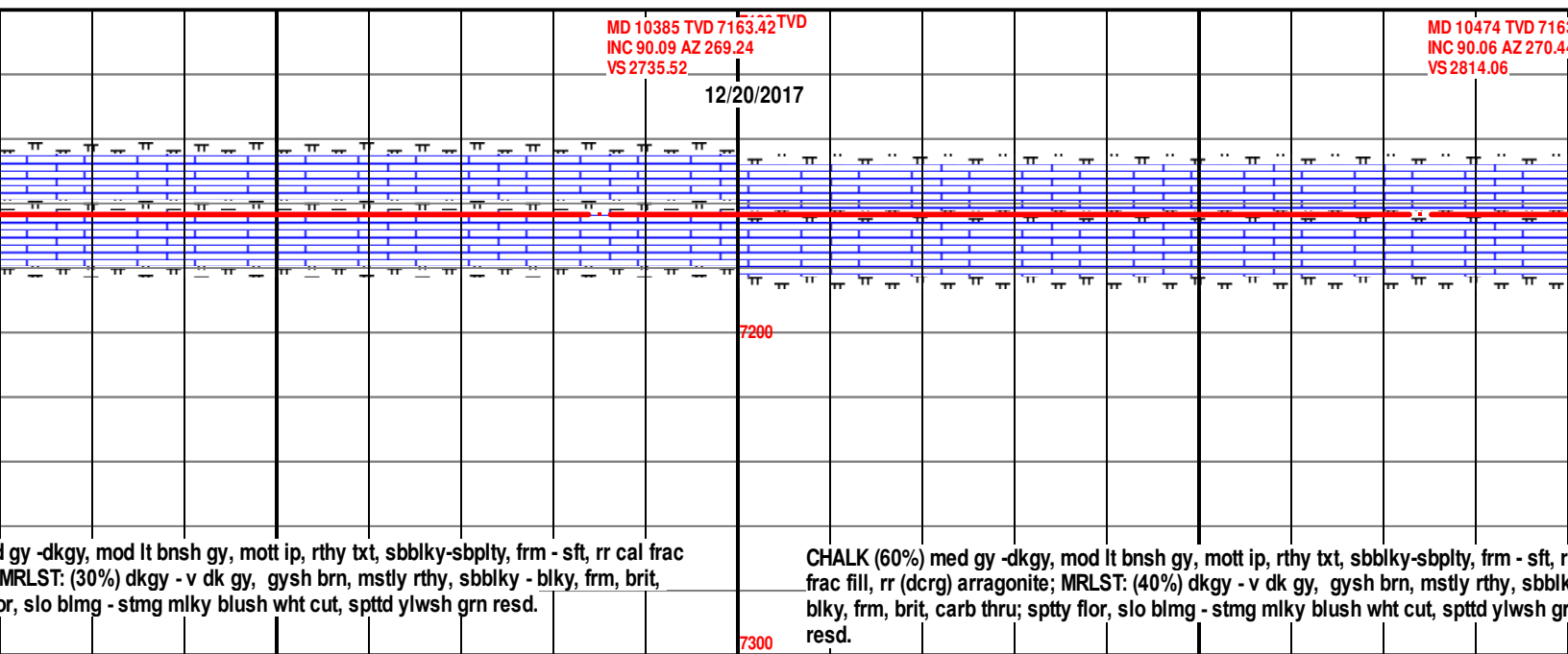
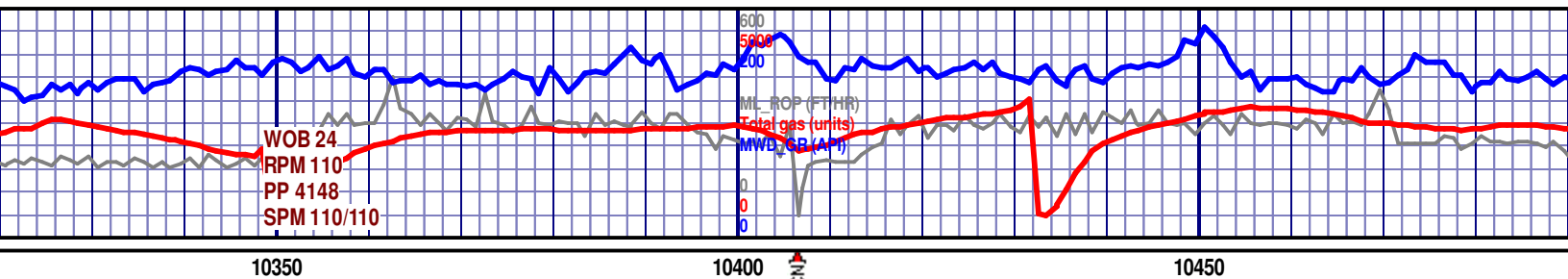






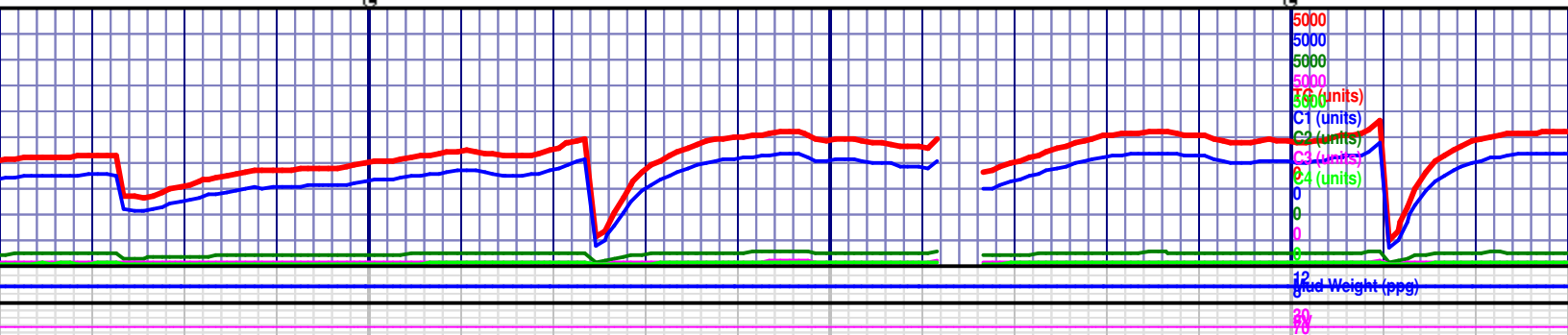
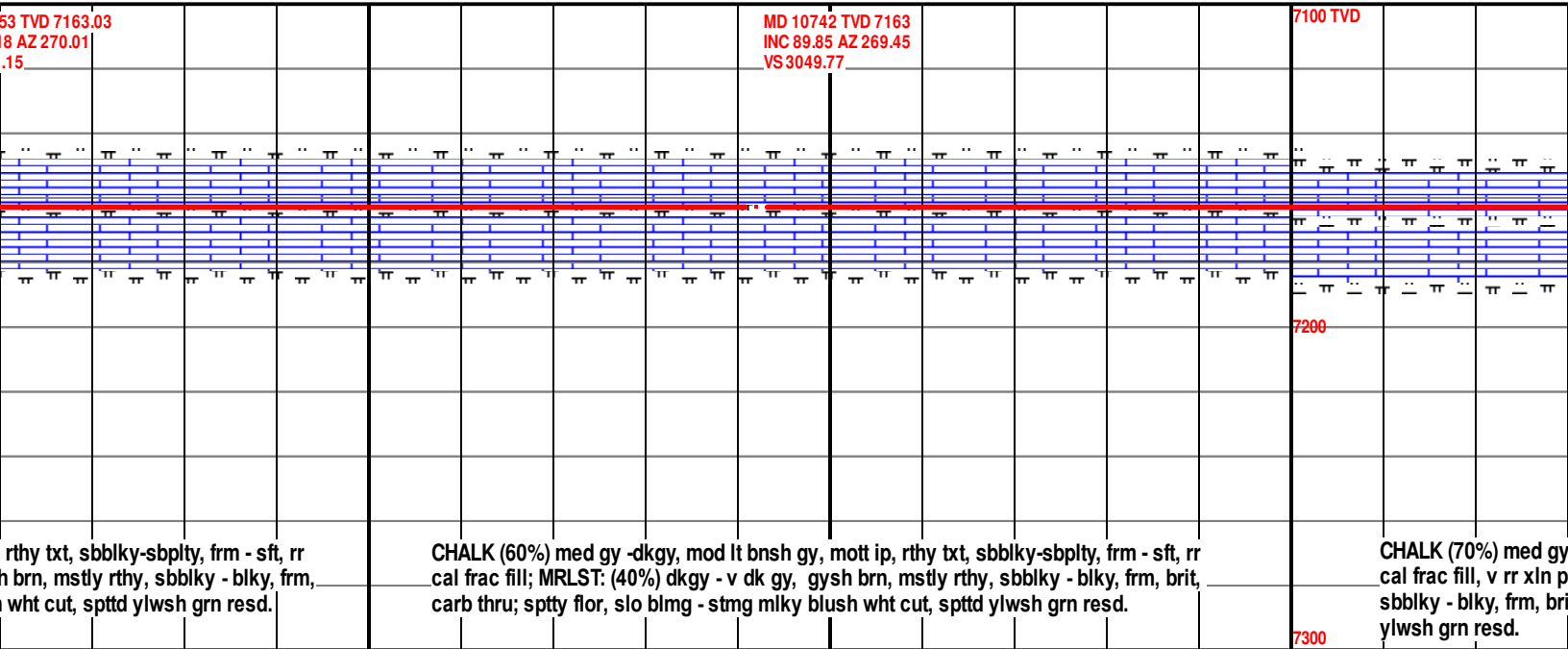
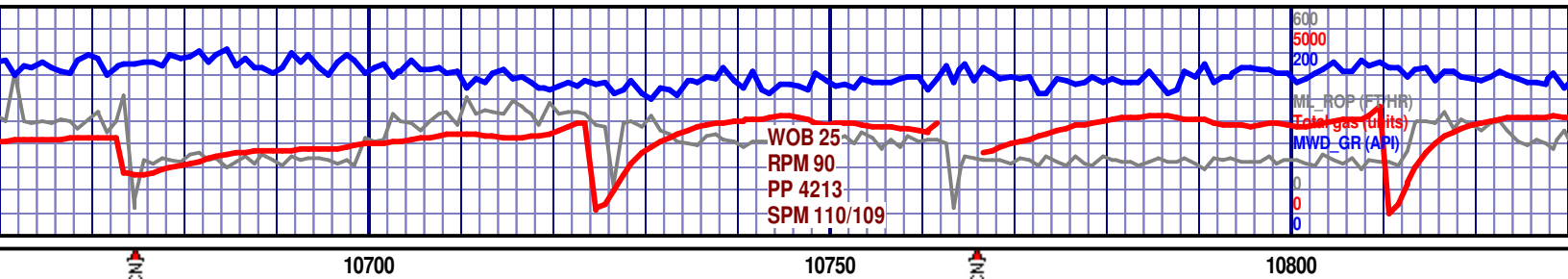


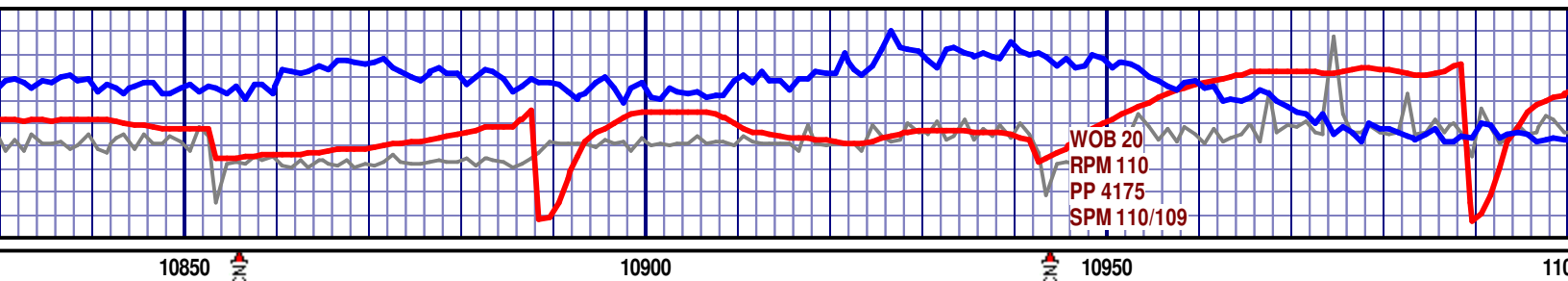




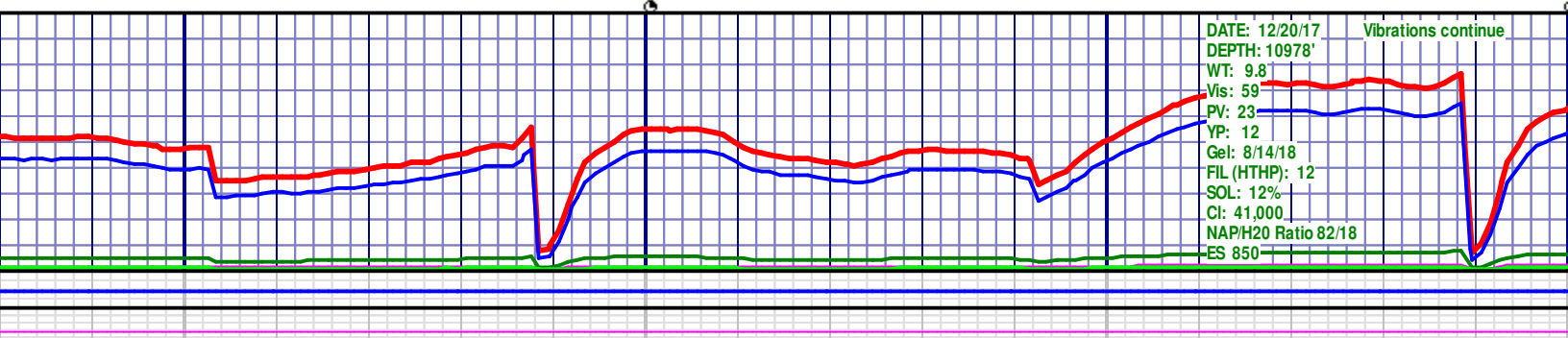






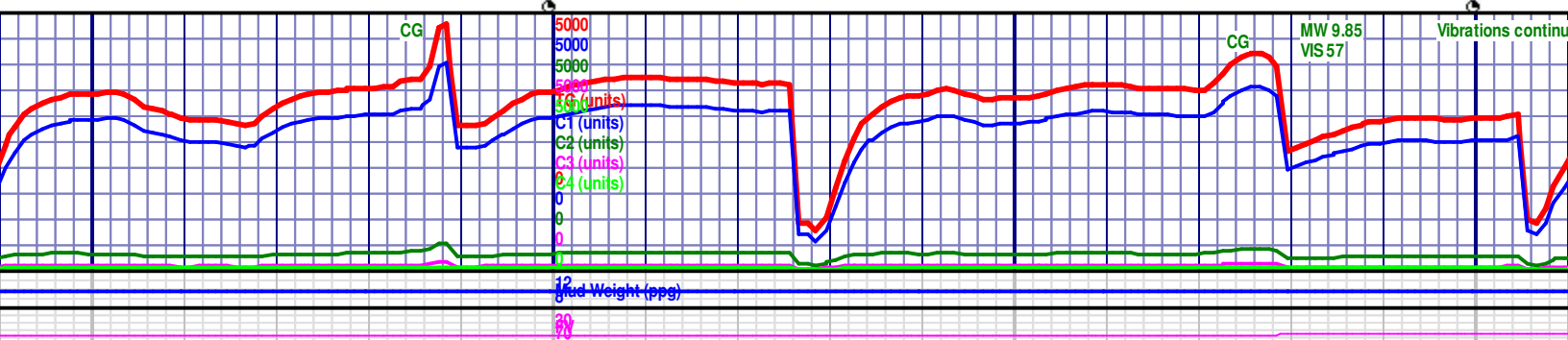
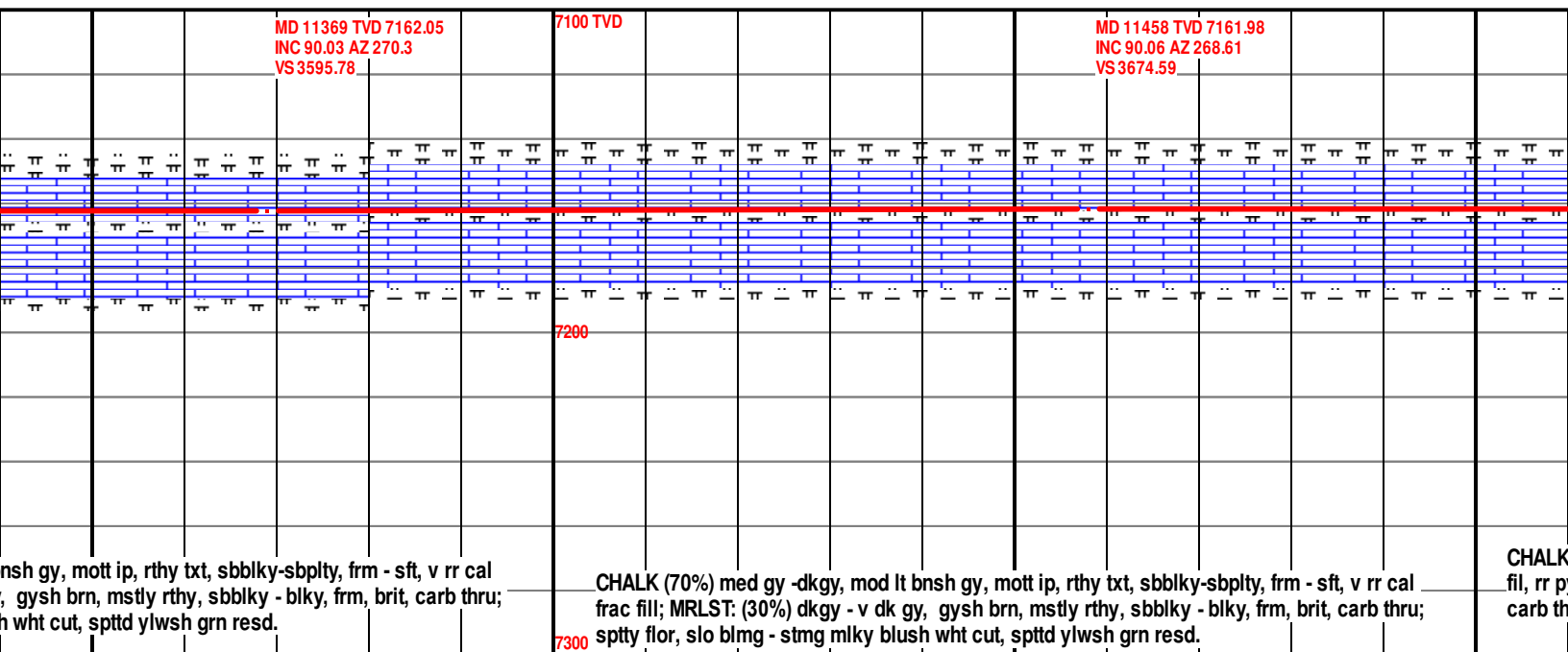
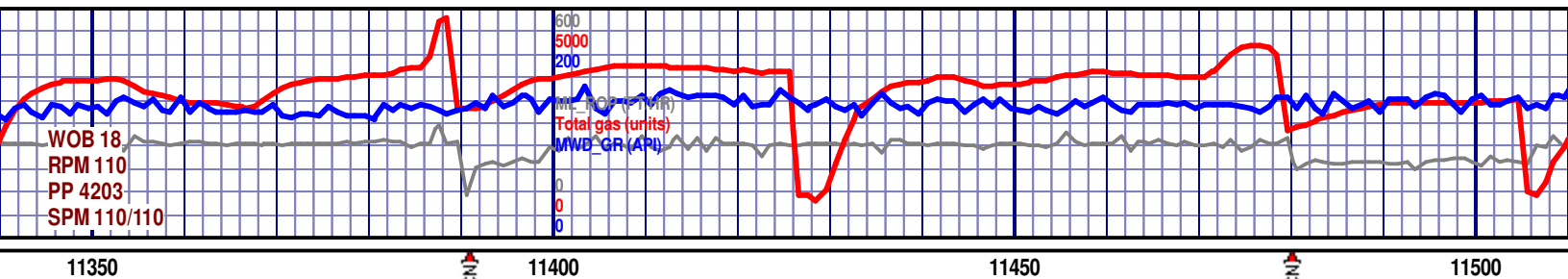


MD 10832 TVD 7163.1 INC 90.03 AZ 270.7 VS 3129.01	MD 10921 TVD 7163.07 INC 90 AZ 271.66 VS 3206.55
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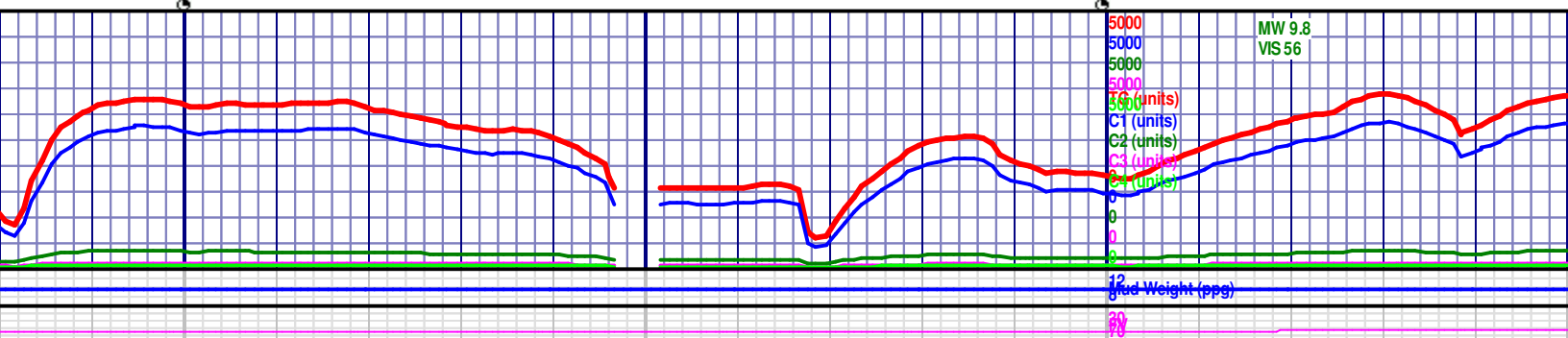
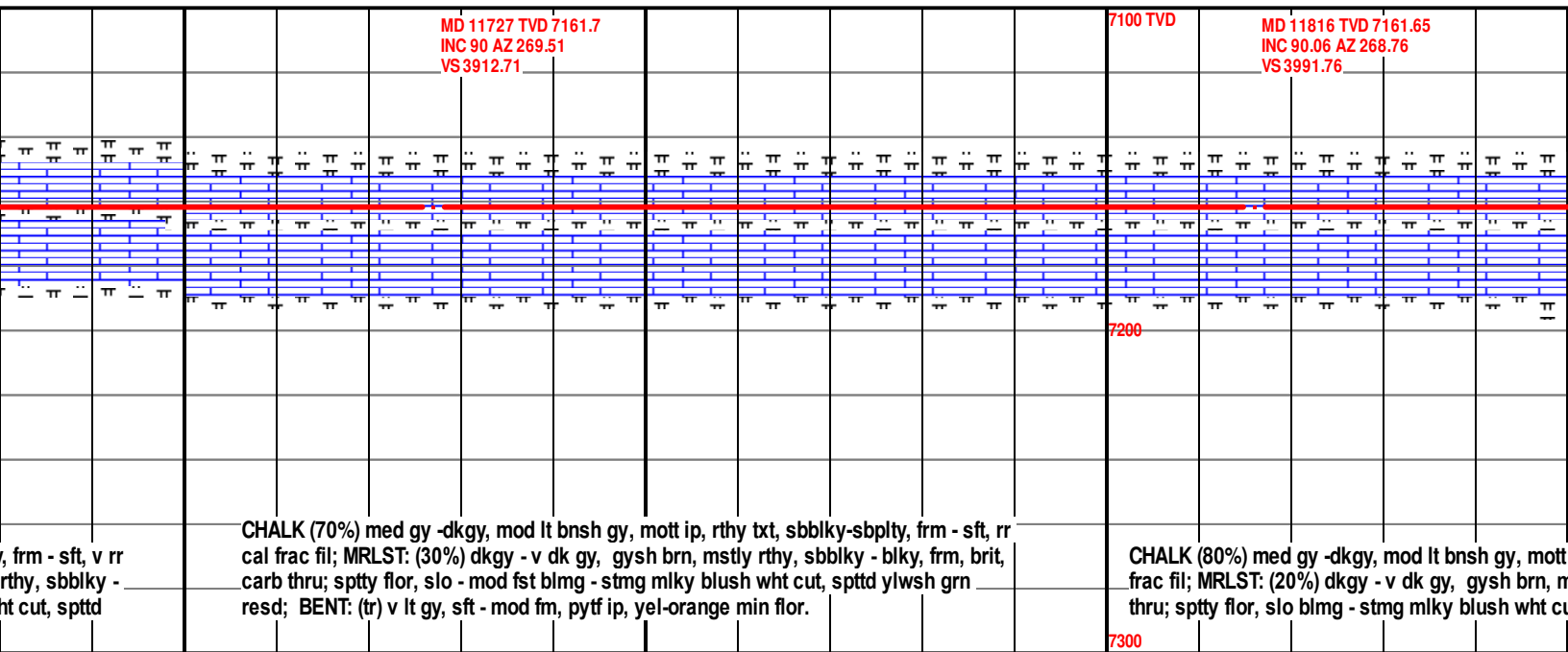
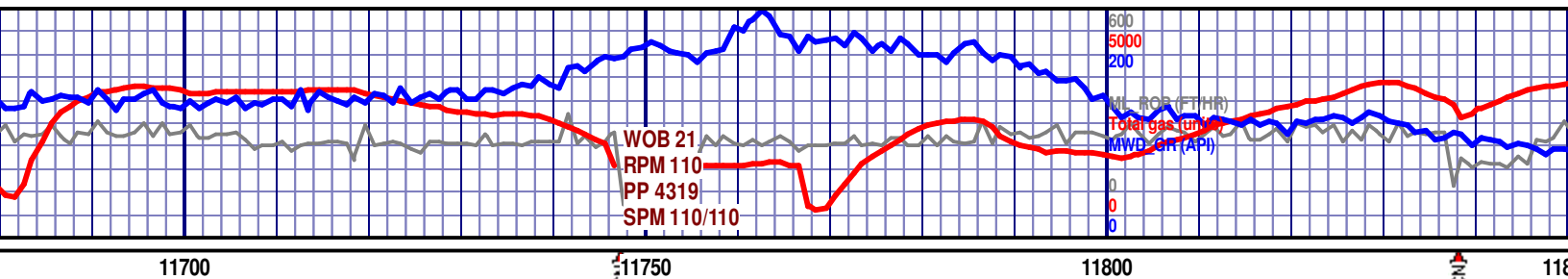


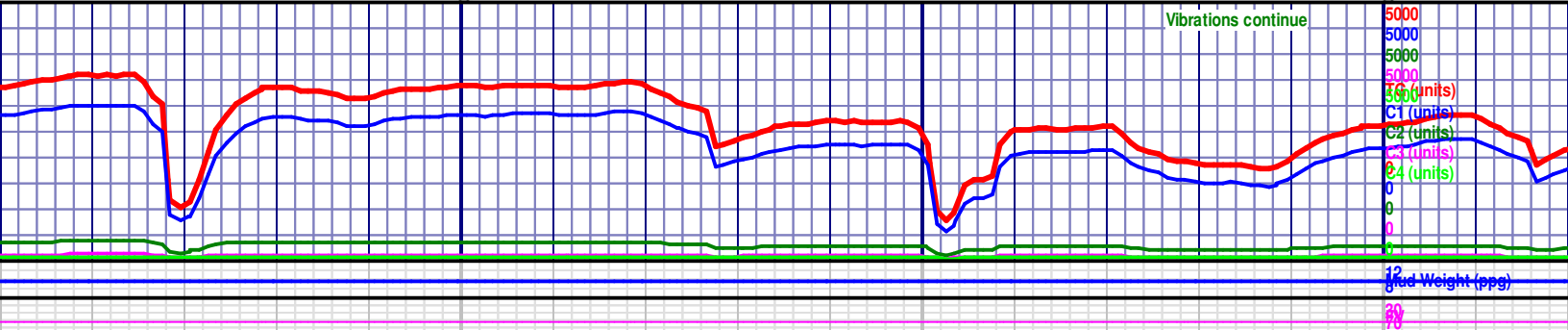
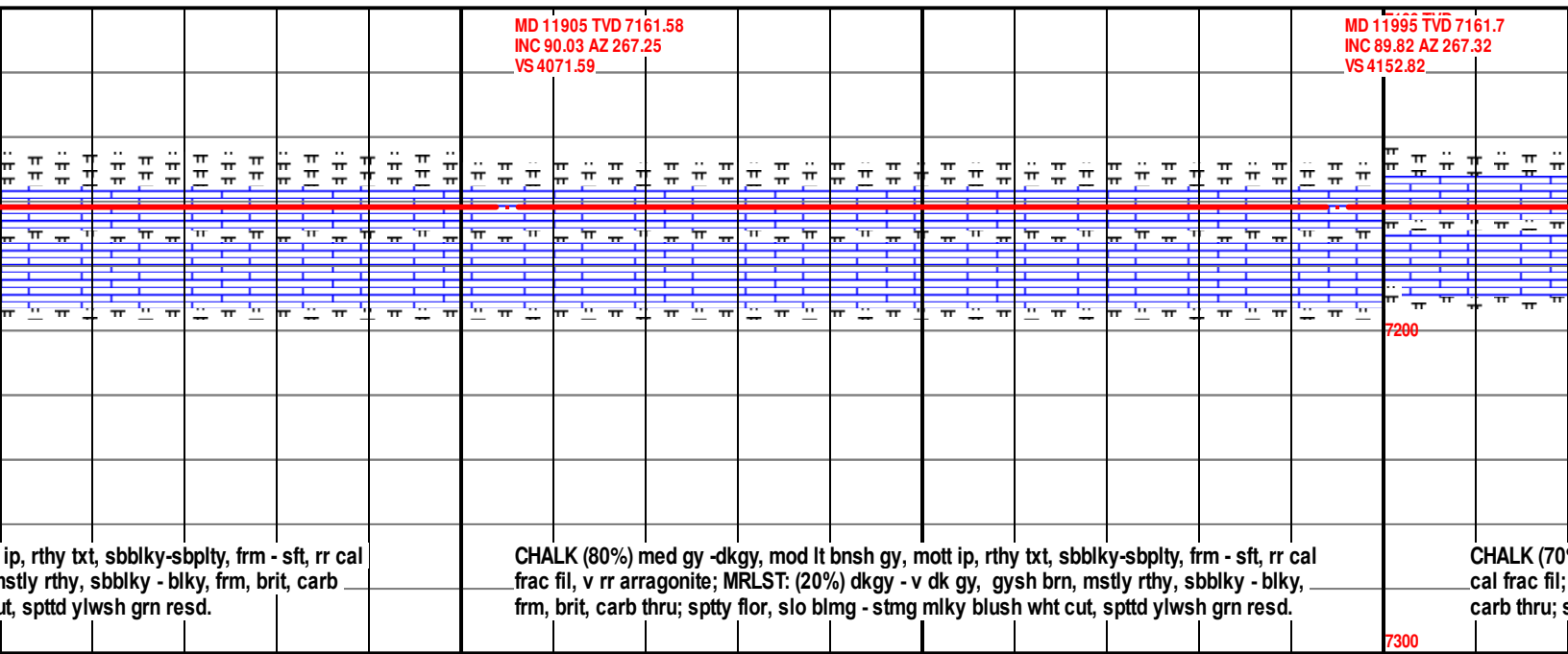
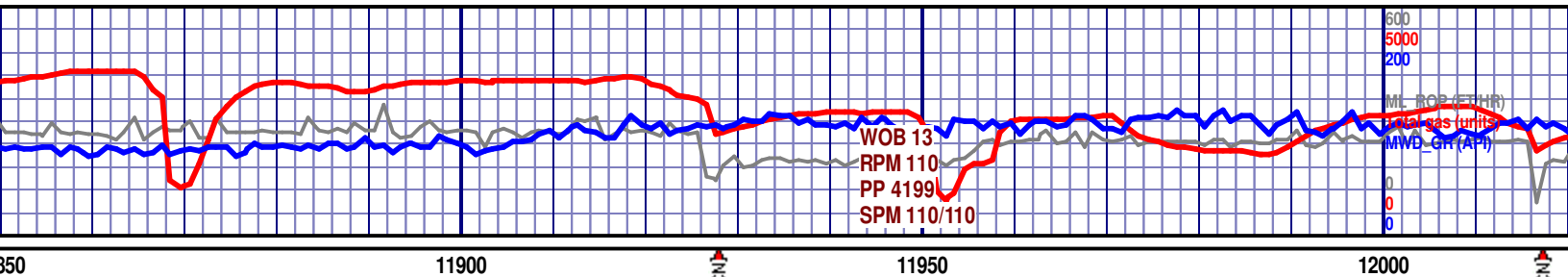




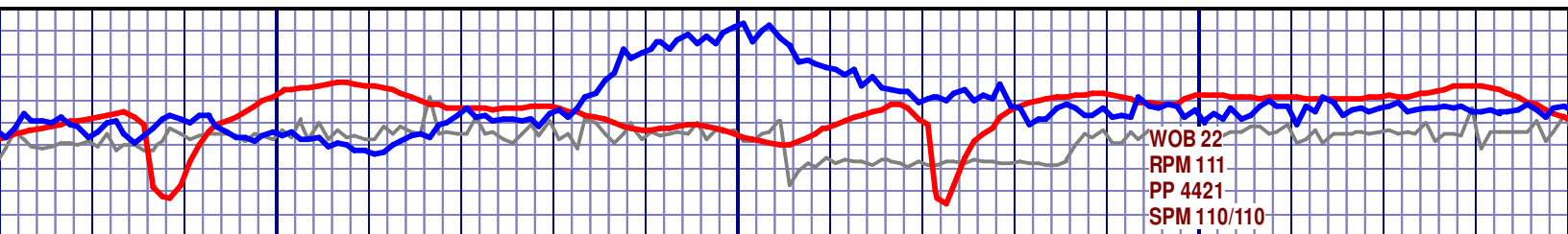












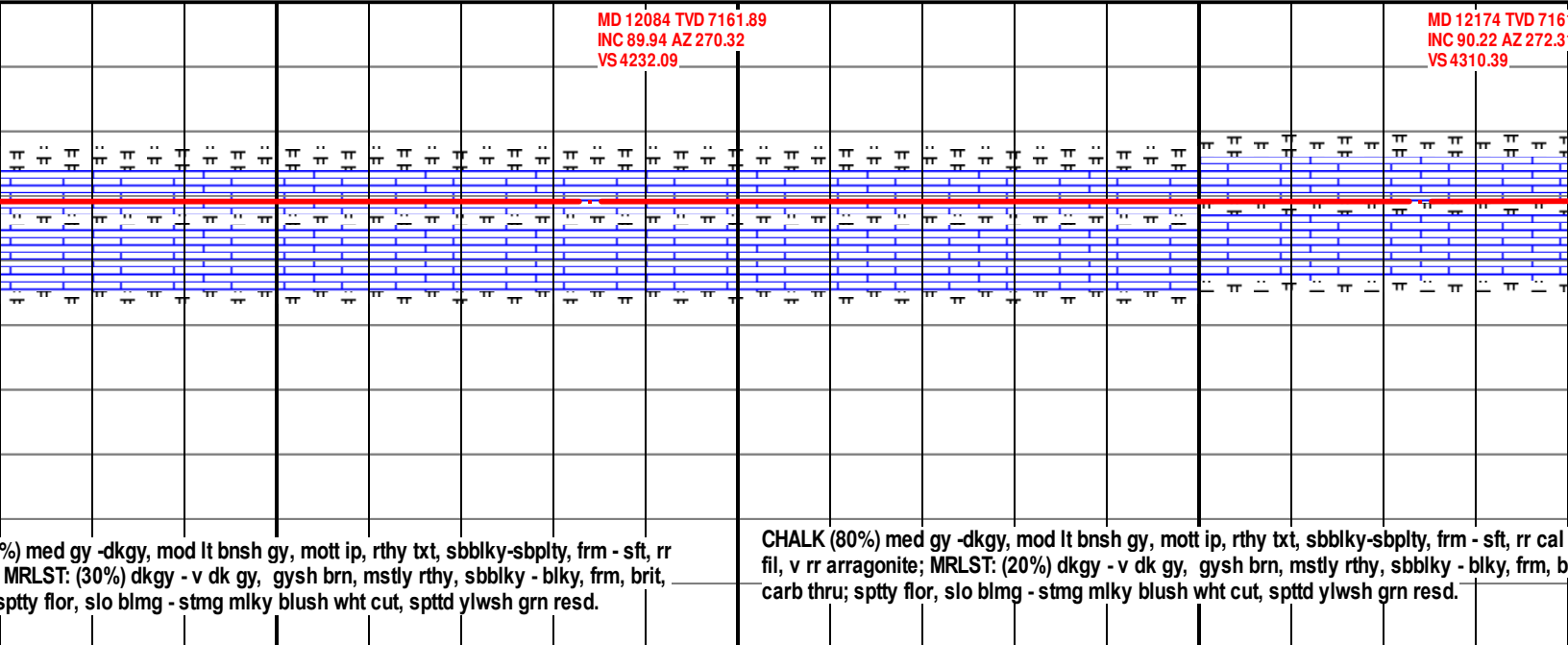
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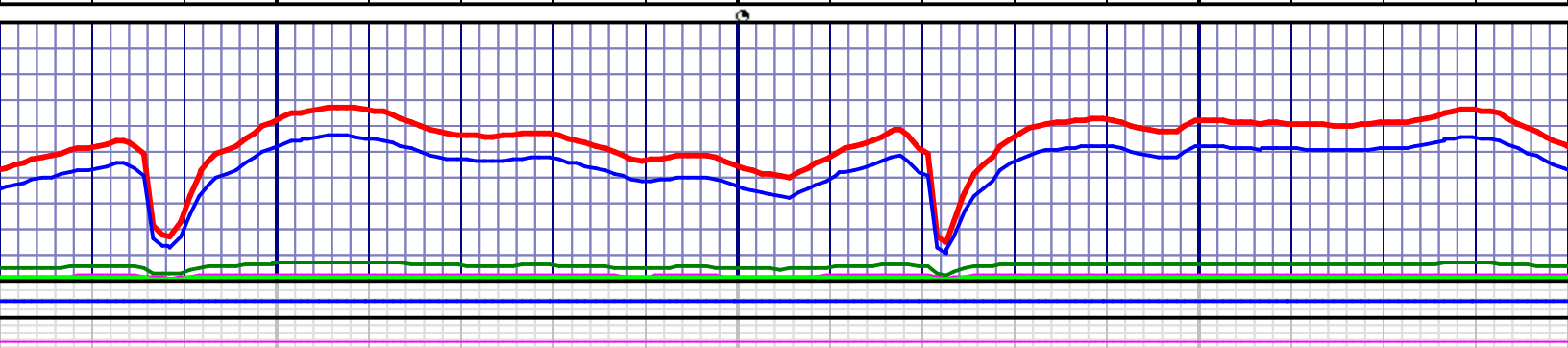
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MD 12084 TVD 7161.89  
INC 89.94 AZ 270.32  
VS 4232.09

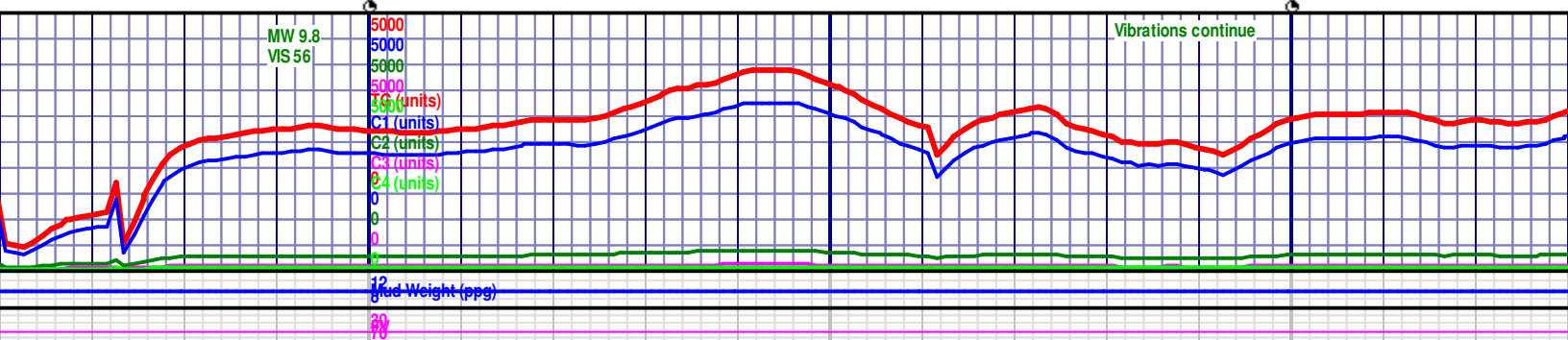
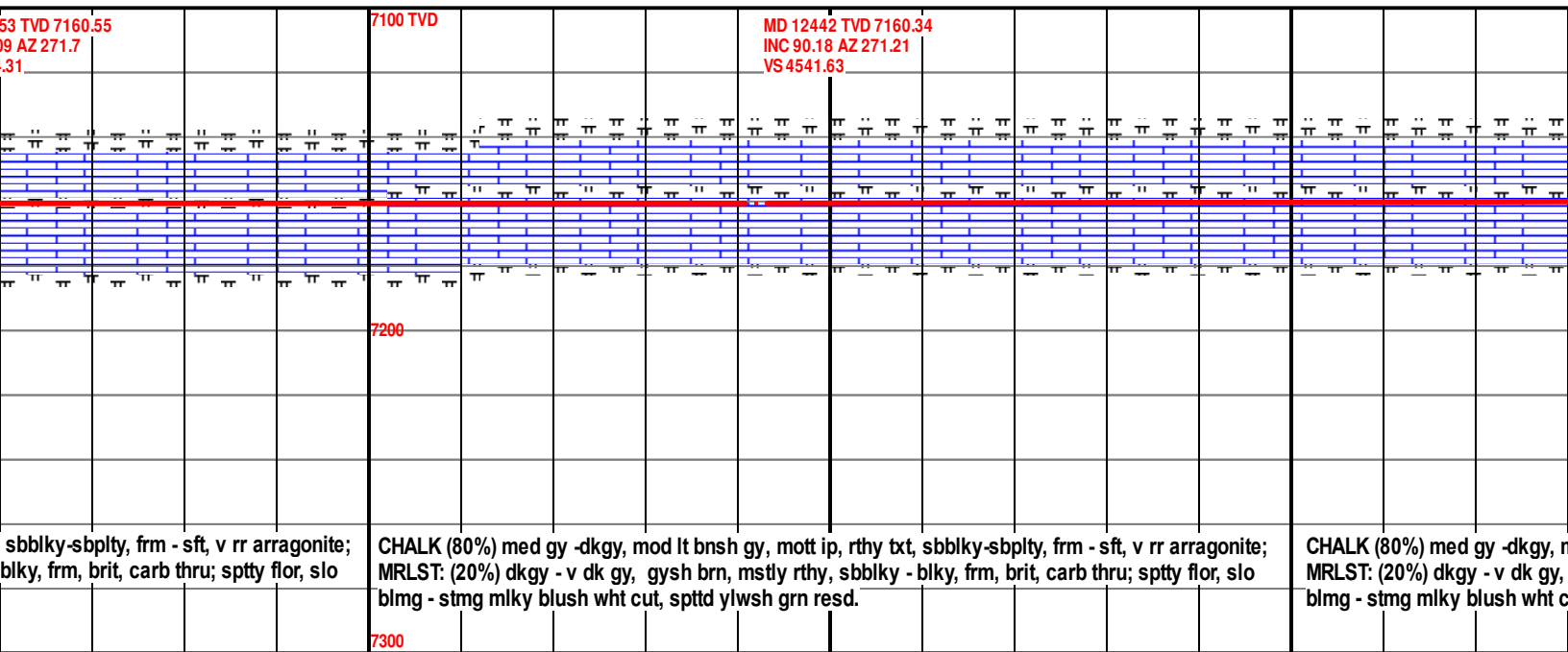
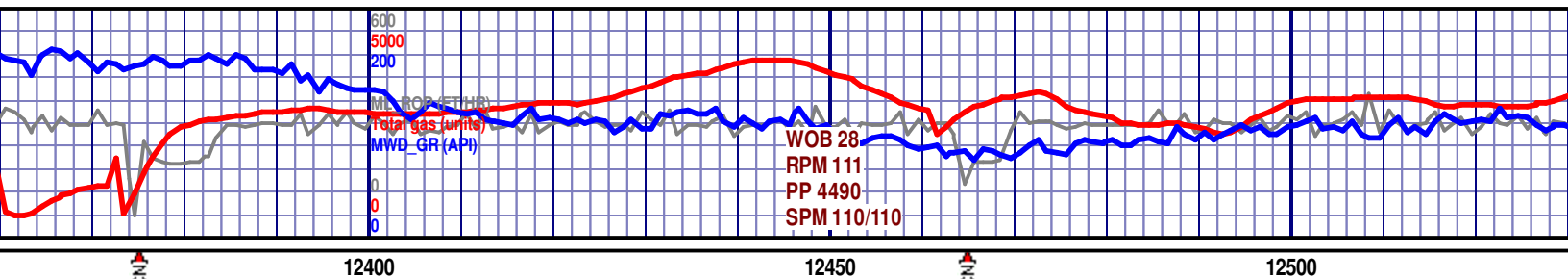
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INC 90.22 AZ 272.32  
VS 4310.39

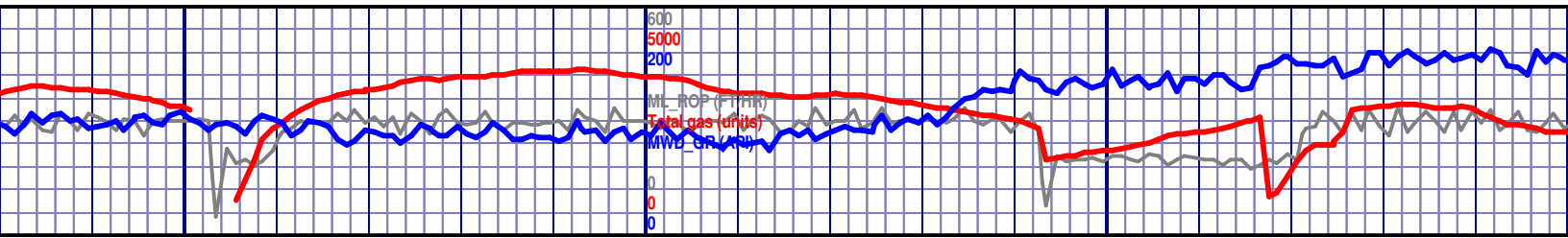


(%) med gy -dkgy, mod lt bnsh gy, mott ip, rthy txt, sbblky-sbplty, frm - sft, rr  
MRLST: (30%) dkgy - v dk gy, gysh brn, mstly rthy, sbblky - blky, frm, brit,  
sptty flor, slo blmg - stng mlky blush wht cut, spttd ylwsh grn resd.









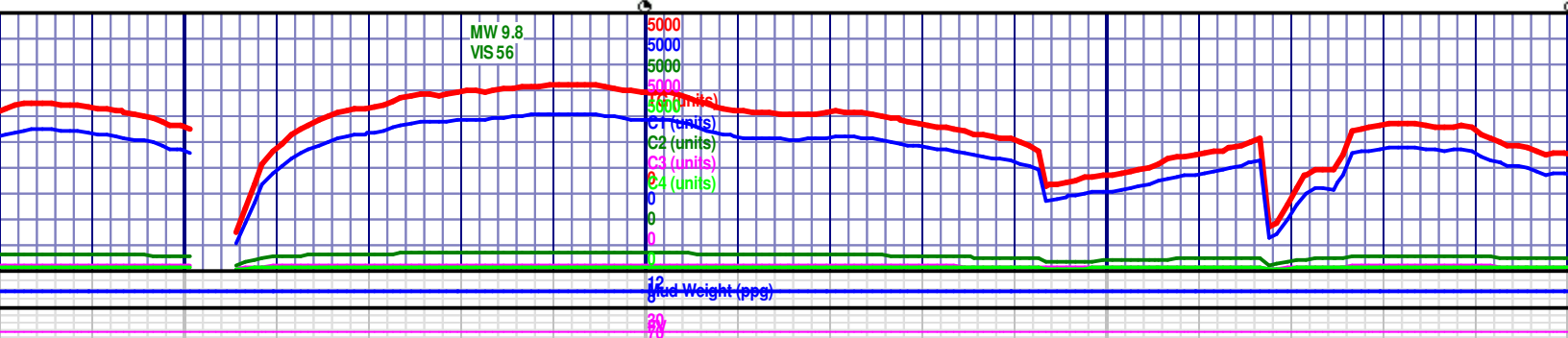
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12600

12650

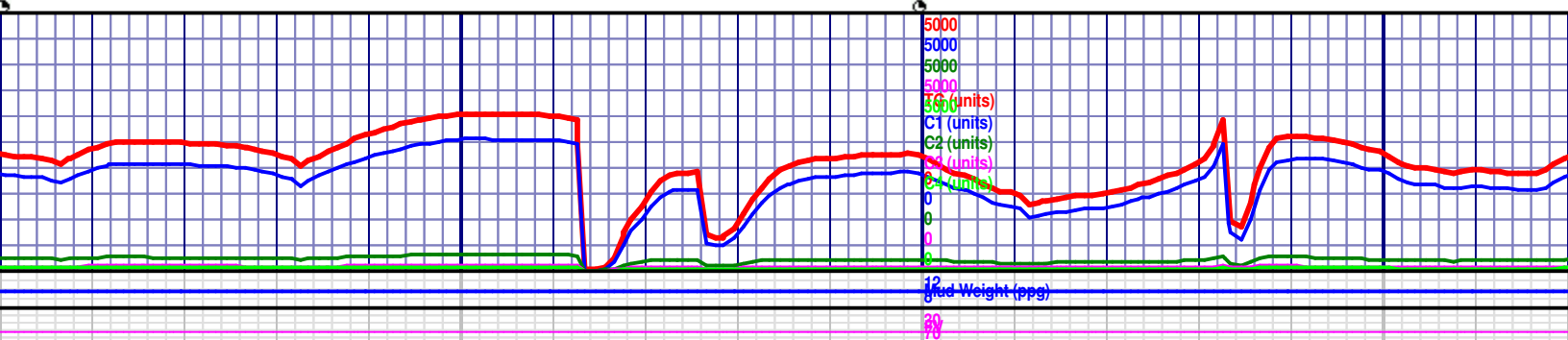
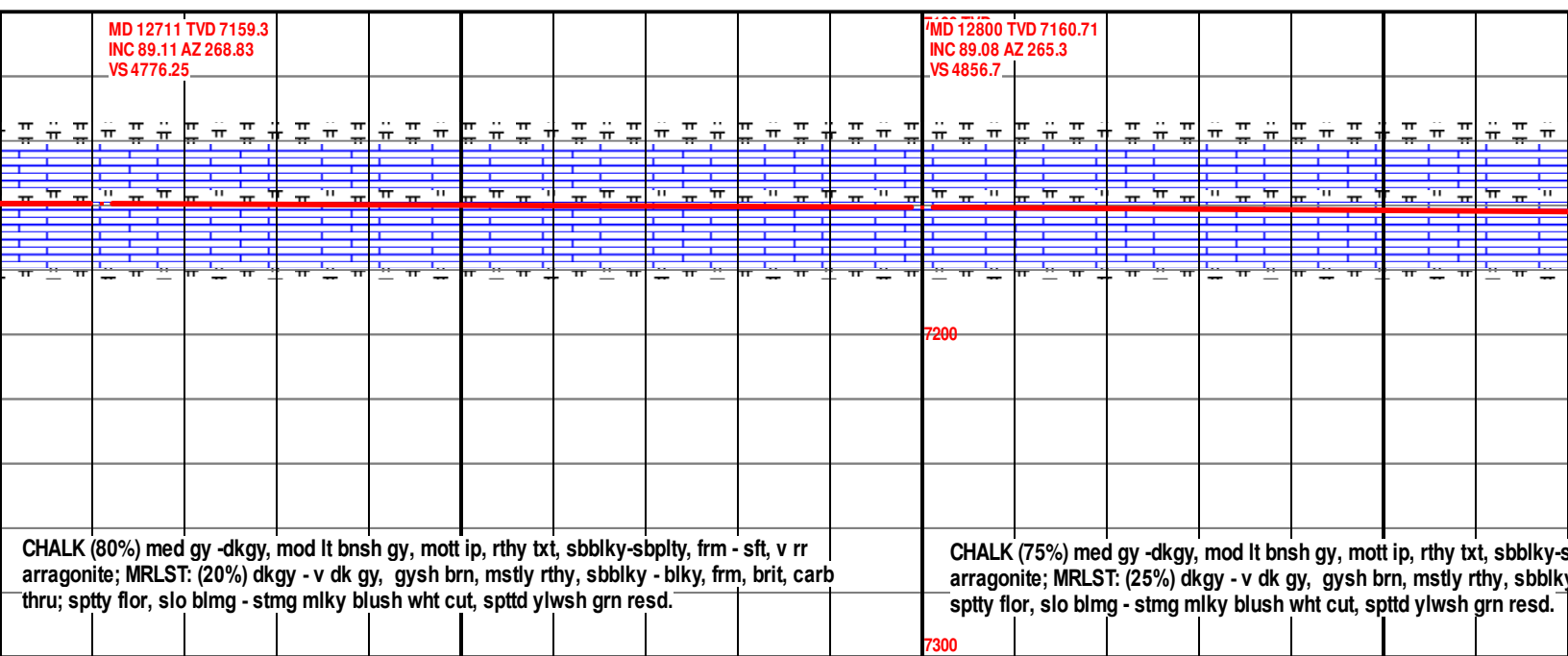
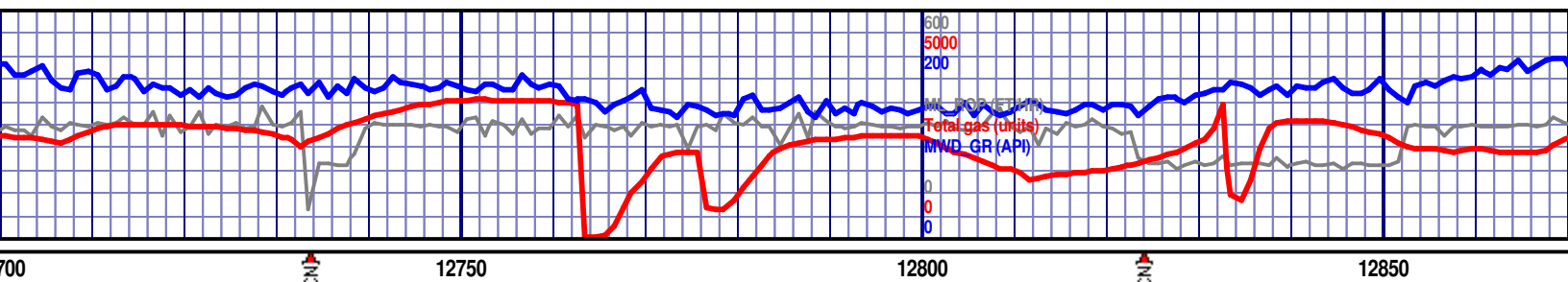
12700

<p>MD 12532 TVD 7159.96 INC 90.31 AZ 271.58 VS 4619.88</p> <p>mod lt bnsh gy, mott ip, rthy txt, sbblky-sbplty, frm - sft, v rr arragonite; gysh brn, mstly rthy, sbblky - blk, frm, brit, carb thru; sptty flor, slo cut, spttd ylwsh grn resd.</p>	<p>7100 TVD</p> <p>7200</p> <p>7300</p>	<p>MD 12621 TVD 7159.16 INC 90.71 AZ 271.57 VS 4697.11</p> <p>CHALK (80%) med gy-dkgy, mod lt bnsh gy, mott ip, rthy txt, sbblky-sbplty, frm - sft, v rr arragonite; MRLST: (20%) dkgy - v dk gy, gysh brn, mstly rthy, sbblky - blk, frm, brit, carb thru; sptty flor, slo blmg - stmg mlky blush wht cut, spttd ylwsh grn resd.</p>
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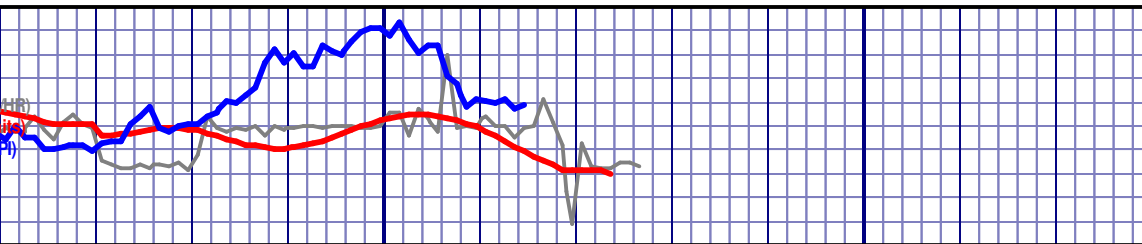
Fluid Weight (ppg)

80





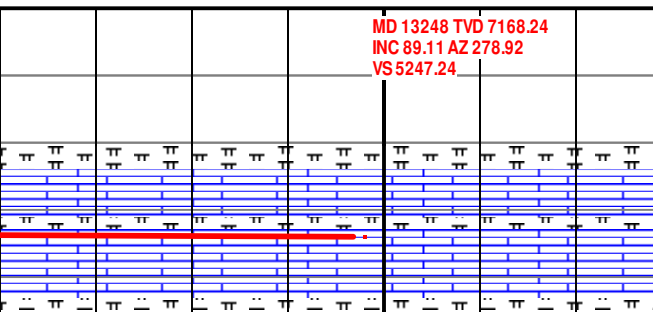




13250

13300

MD 13248 TVD 7168.24  
INC 89.11 AZ 278.92  
VS 5247.24



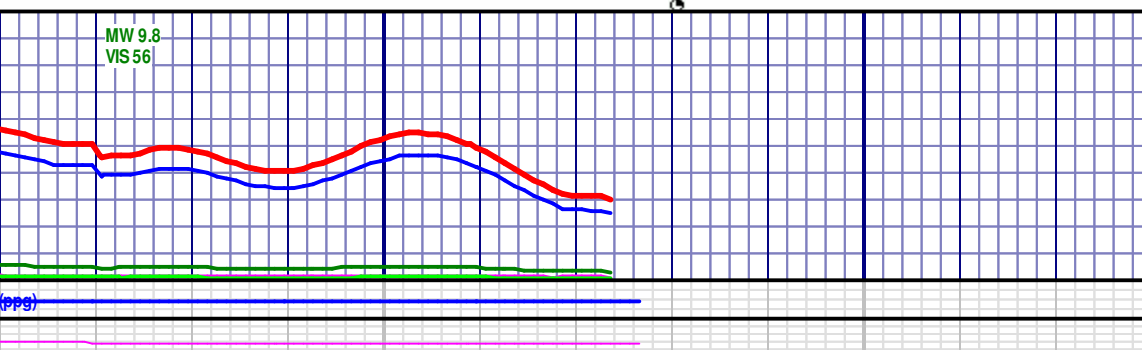
TD @ 13,278'

Formation Top's

	MD	TVD	SSD
Sharon Springs	7520'	6949'	-2114'
Niobrara A Chalk	7549'	6965'	-2130'
Niobrara B Chalk	7726'	7072'	-2237'
Niobrara C Chalk	7645'	7145'	-2310'

LK (75%) med gy -dkgy, mod lt bnsh gy, mott ip, rthy txt,  
ky-sbplty, frm - sft, v rr arragonite; MRLST: (25%) dkgy - v dk gy,  
h brn, mstly rthy, sbblky - blky, frm, brit, carb thru; sptty flor, slo blmg  
g mlky blush wht cut, spttd ylwsh grn resd.

Thank You  
Goolsby Brothers & Assoc.



MW 9.8  
VIS 56

(PPS)