

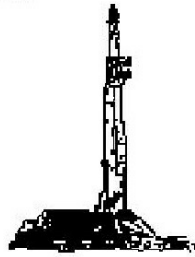
GOOLSBY BROTHERS and associates, inc.

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



**Geological Wellsite
Supervision**

www.goolsbybrothers.com



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

Well Name: Falken 33N-9C-L
API: 051234511400
Location: NE/SE Section 11 T6N R66W Weld County, CO.
License Number: **Region:** Wattenberg
Spud Date: November 10, 2017 **Drilling Completed:** November 16, 2017
Surface Coordinates: 1799'FSL & 276'FEL NE/SE Sec. 11 T6N R66W
Lat/Long: 40°50'05.09"N / 104°73'59.48"W
Bottom Hole Planned: 981'FSL & 300'FEL, SEC.9 T6N R66W
Coordinates:
Ground Elevation (ft): 4,810' **K.B. Elevation (ft):** 4,835'
Logged Interval (ft): 6,750' **To:** 18,884' **Total Depth (ft):** 18,994' 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

OPERATOR

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

GEOLOGIST

Name: Tekabe Gedamu & Blake Stacey
Company: Goolsby Brothers & Assoc. (GBA), Inc. (www.goolsbybrothers.com)
Address: 575 Union Blvd. Suite 208,
Lakewood CO. 80228
Tel 303-618-7736

E-logs

MWD GR from S.C. to 18,980' MD

Casing

9 5/8" Surface Casing pre set @ 1,800' MD.
5 1/2" Production Liner run on 11/17/2017.

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: Ryan Kielian, Aaron Herskind
MWD: Garrett Gedsen, Baker Remote Field Operations.
- 5) **Gas Equipment:** Pason Gas Analyzer (Spectrometer)
- 6) **Wellsite Geologist:** Blake Stacey & Tekabe Gedamu

ROCK TYPES

ACCESSORIES

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

OTHER SYMBOLS

OIL SHOWS

- Even
- Spotted
- Ques
- Dead
- Vspotty
- near even

POROSITY TYPE

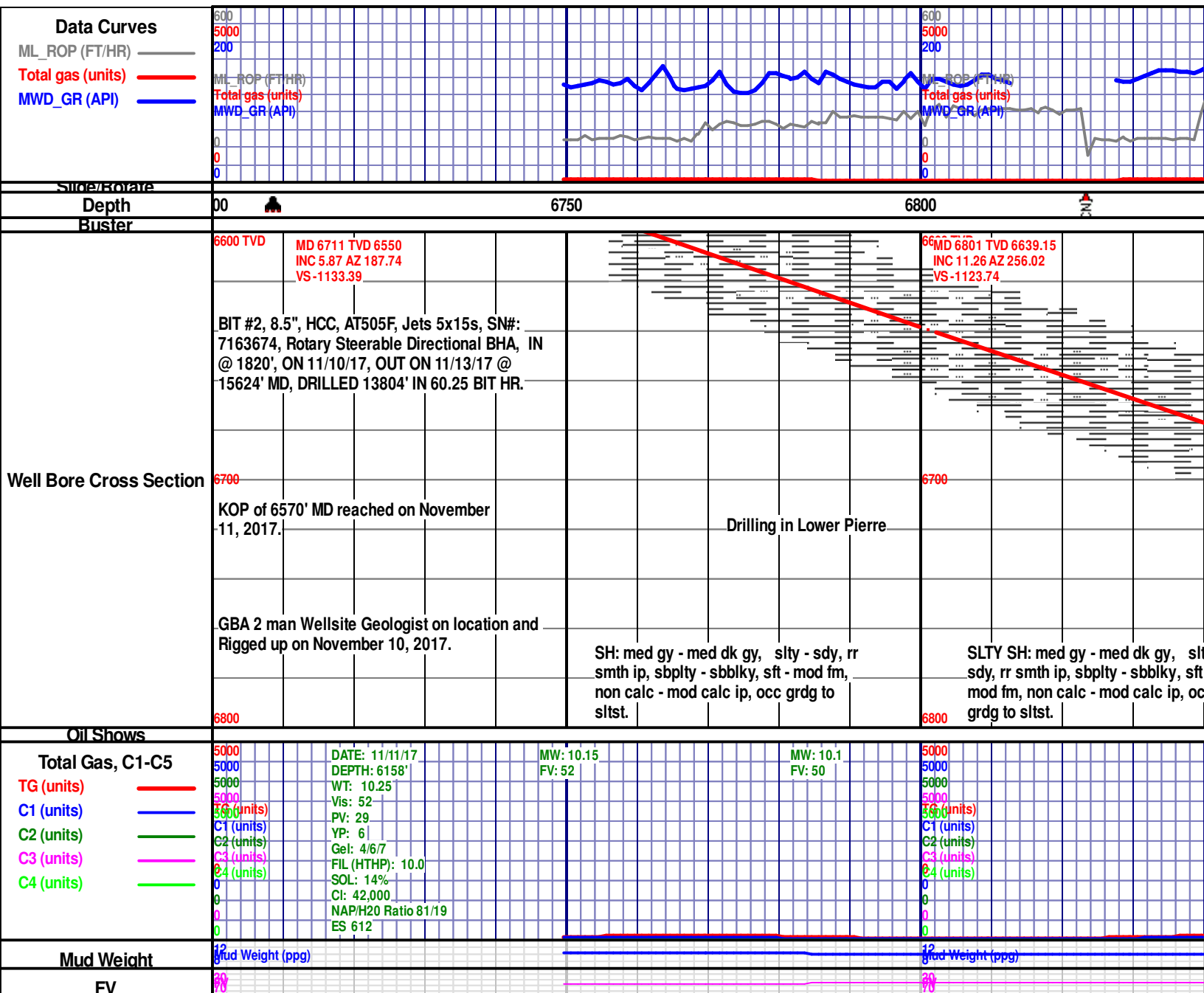
- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic

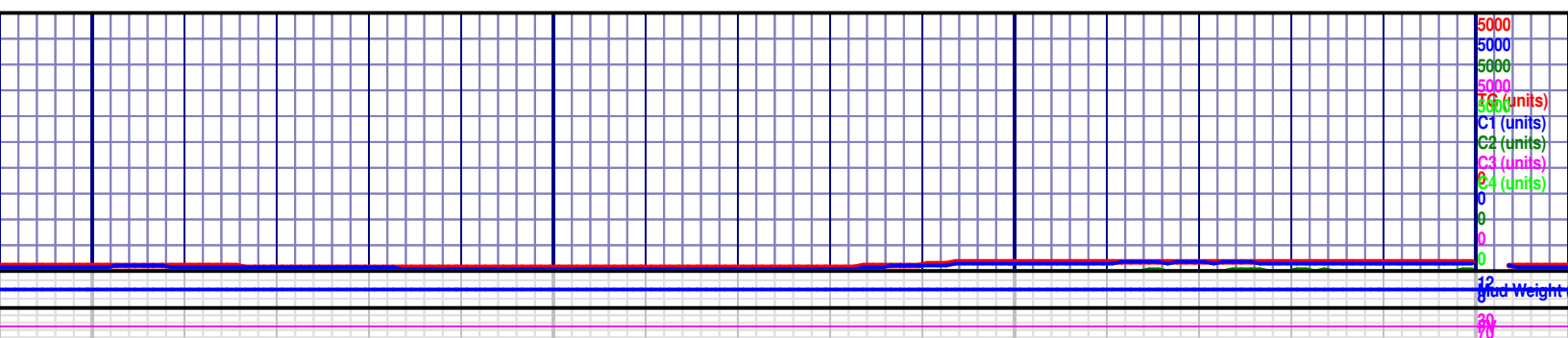
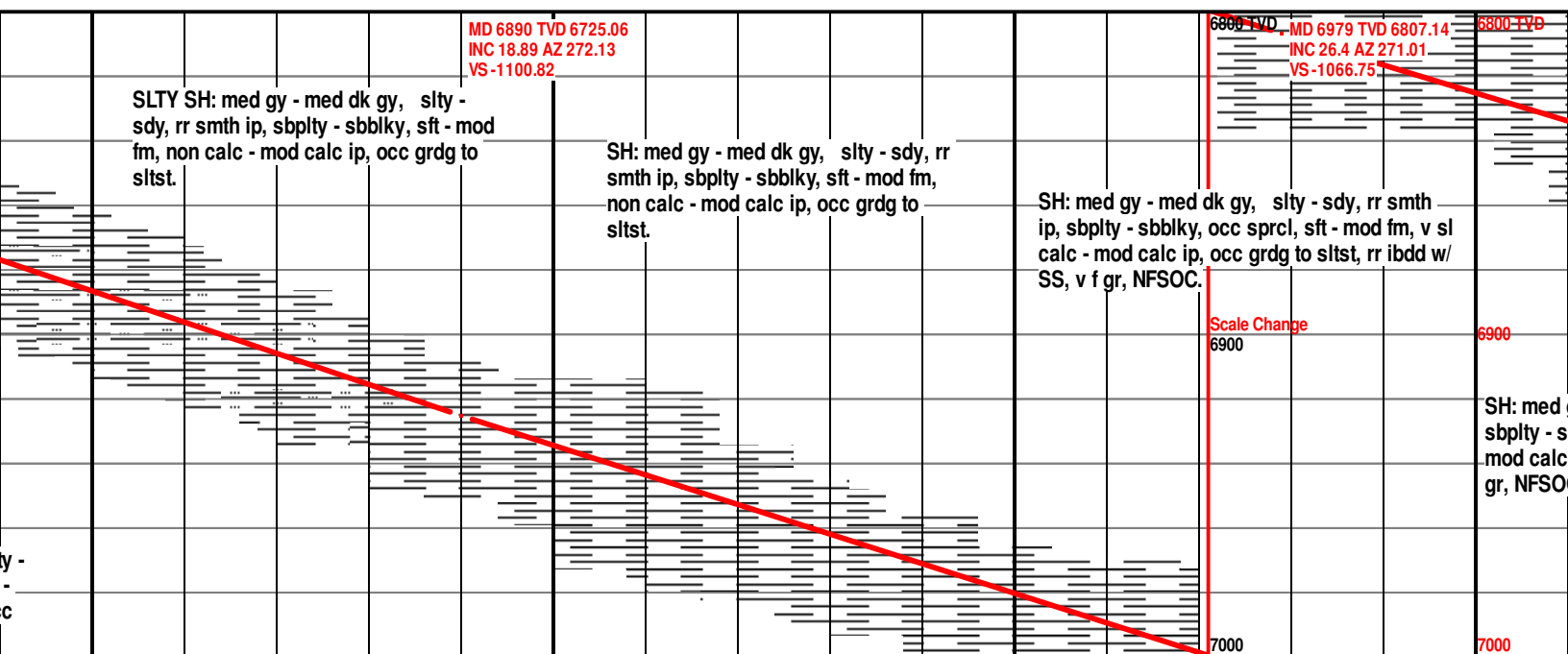
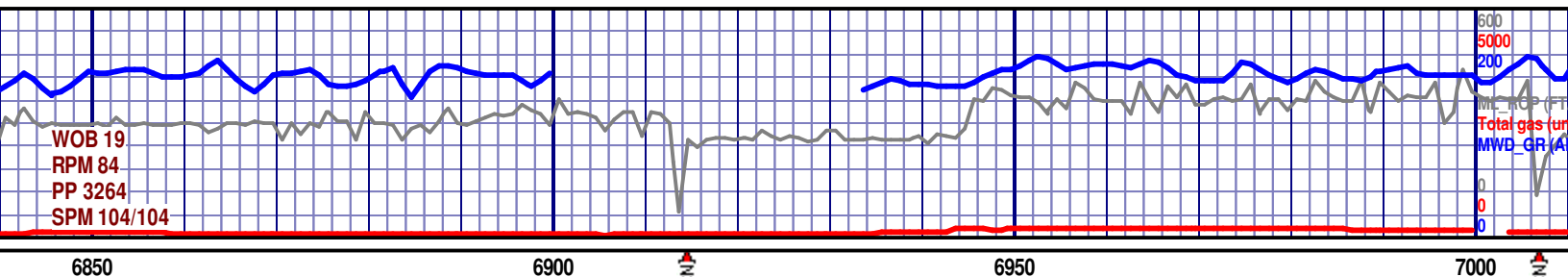
- Pinpoint
- Vuggy

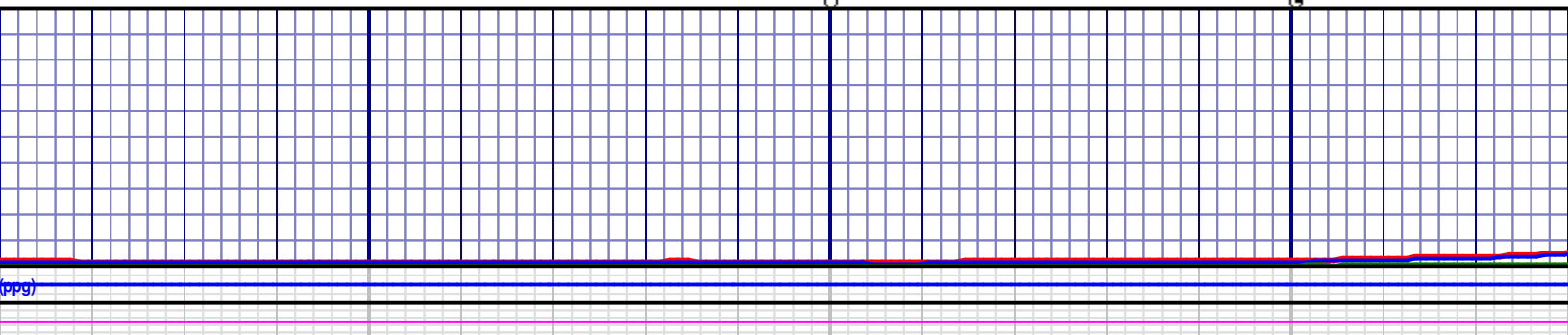
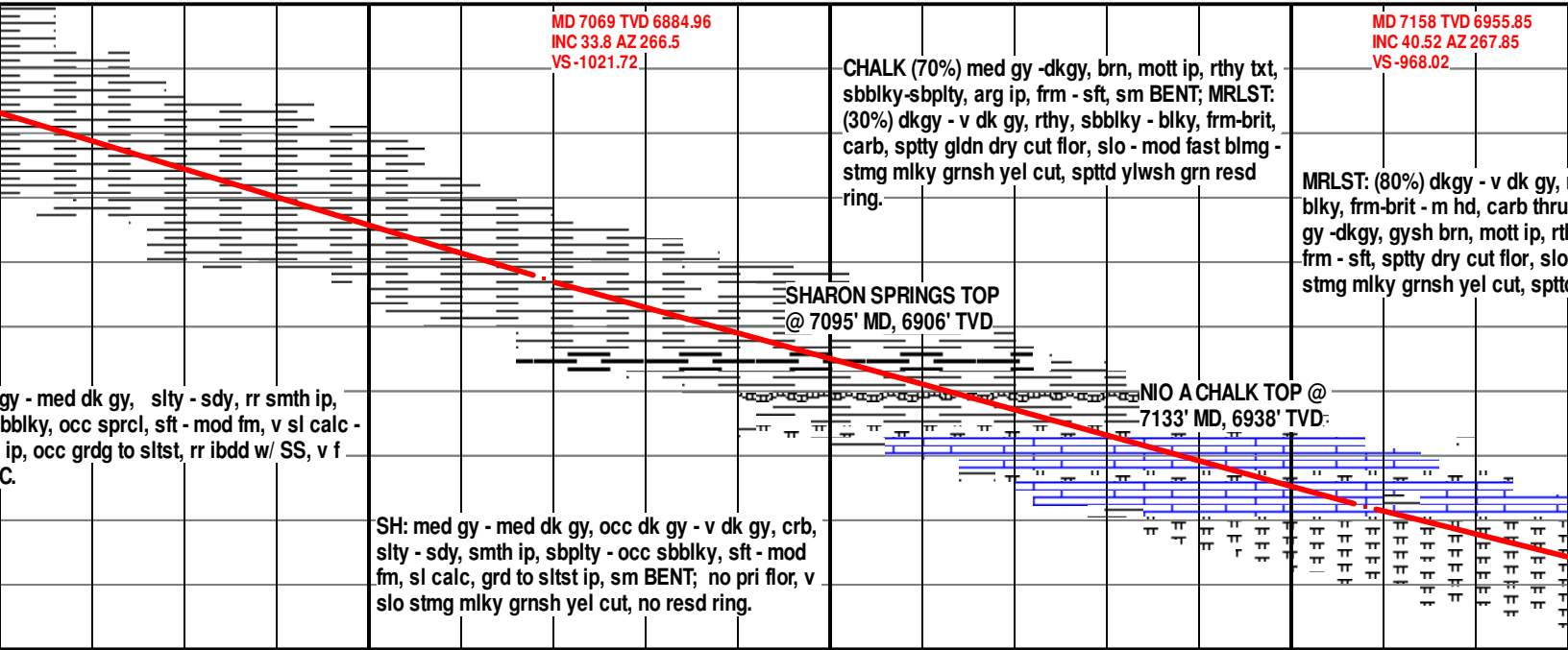
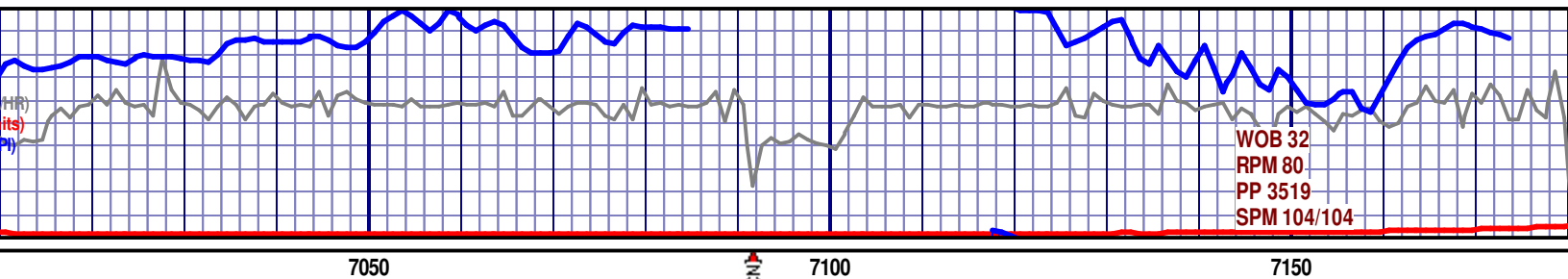
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- Rounded
 - Subrnd
 - Subang

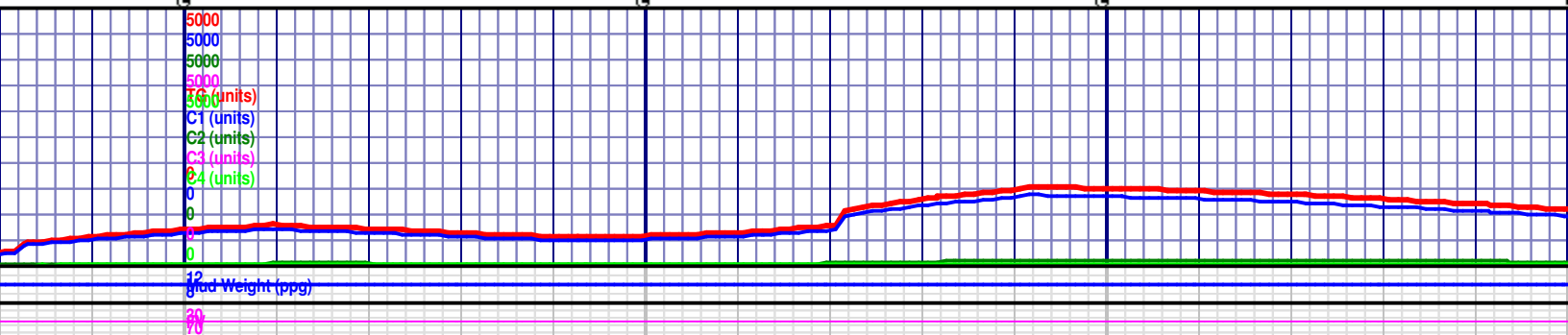
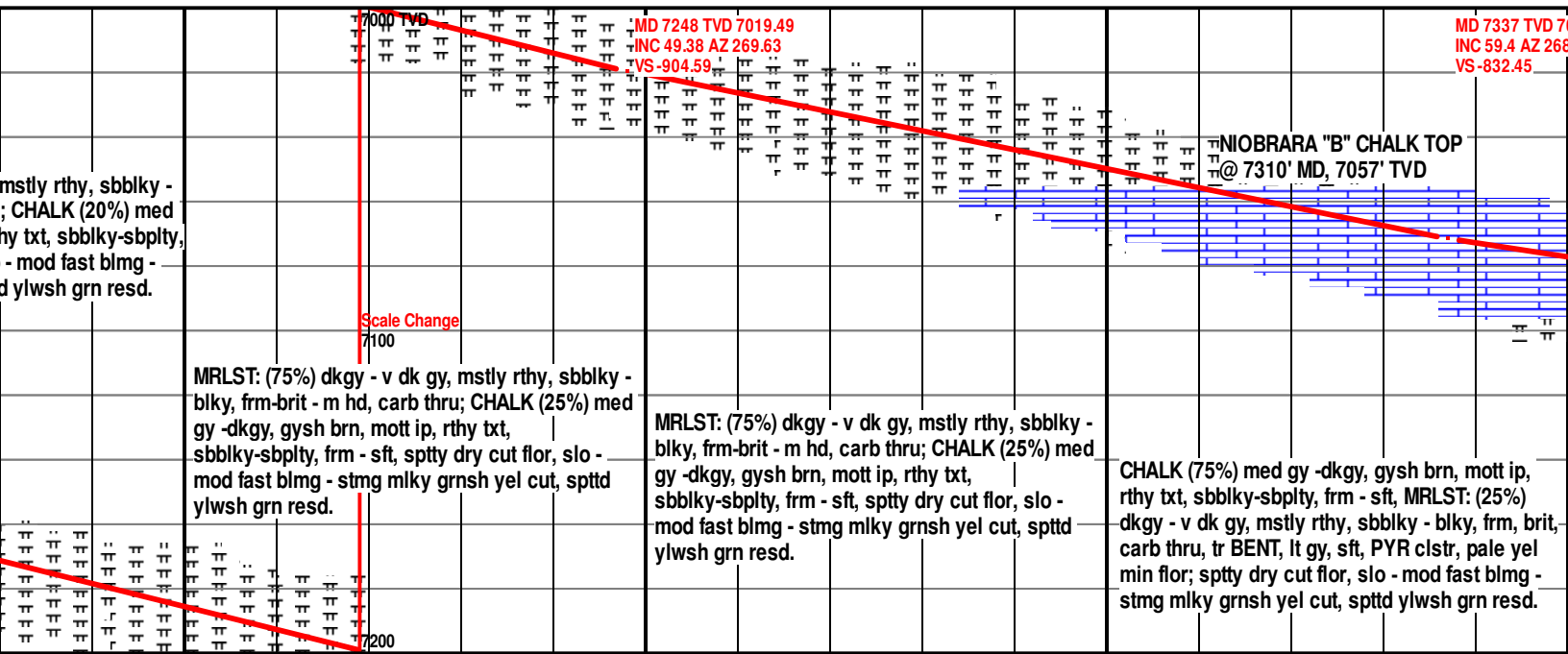
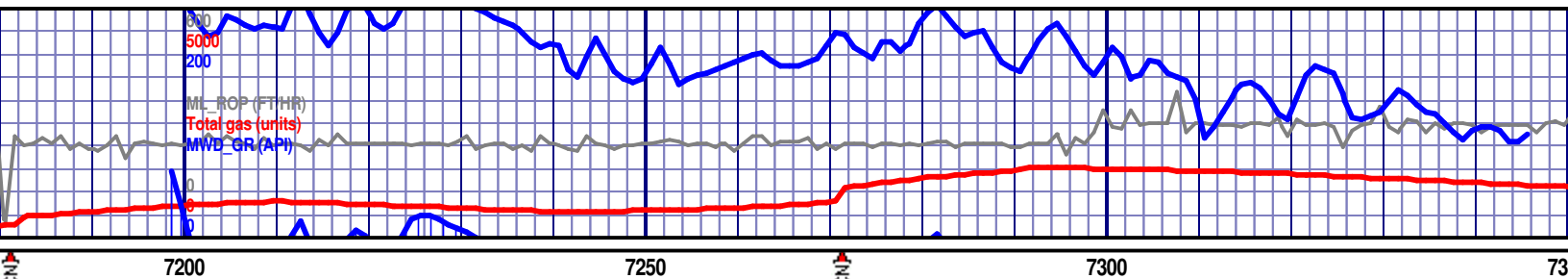
- Angular

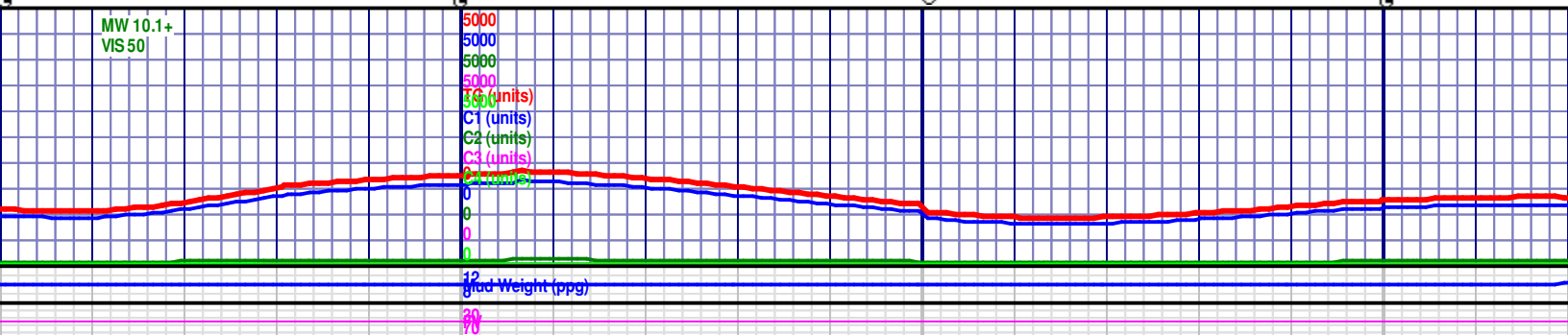
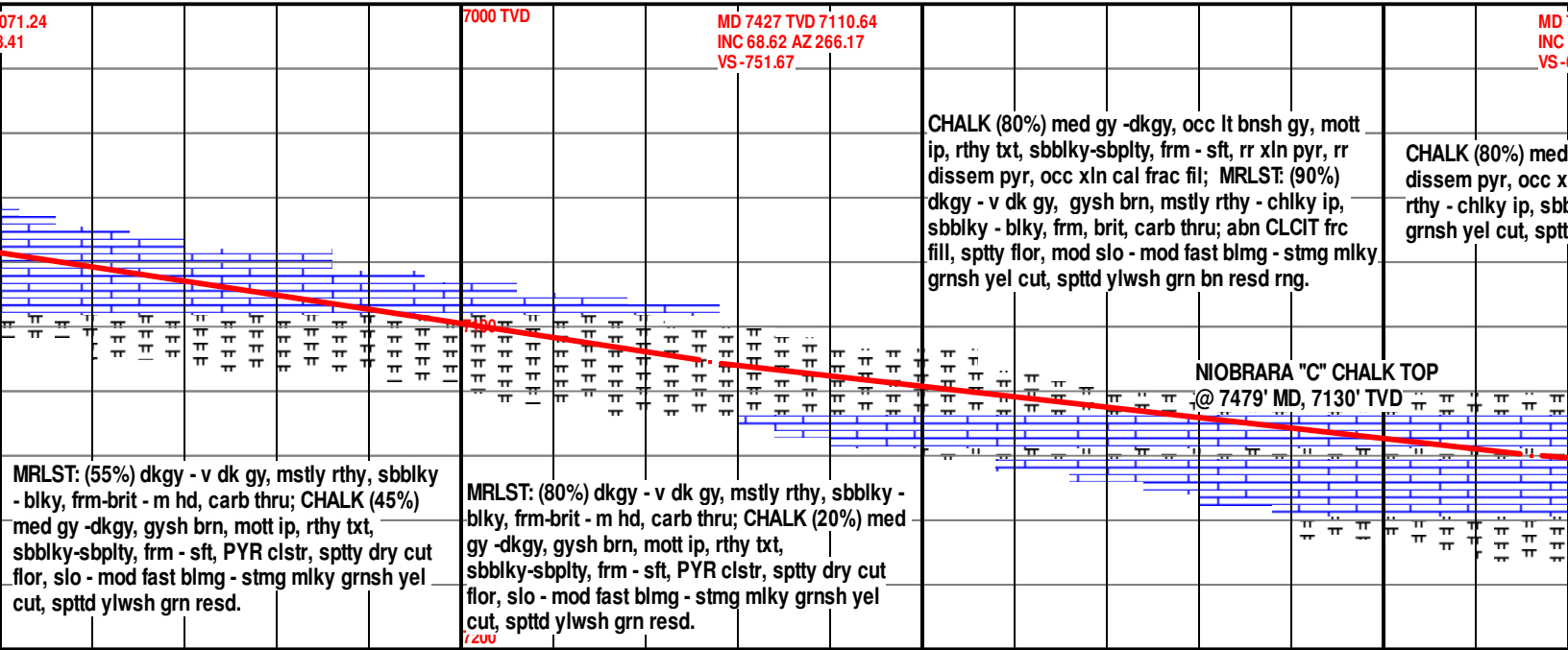
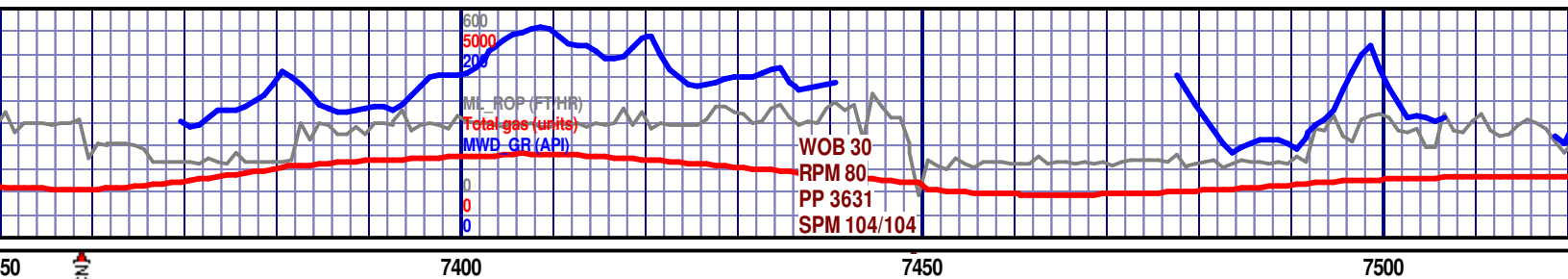
- SORTING
- Well
 - Moderate
 - Poor

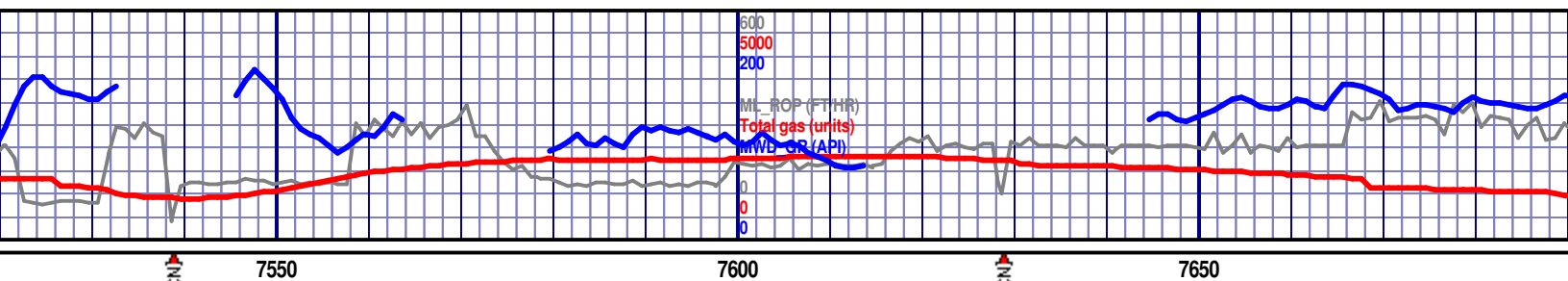










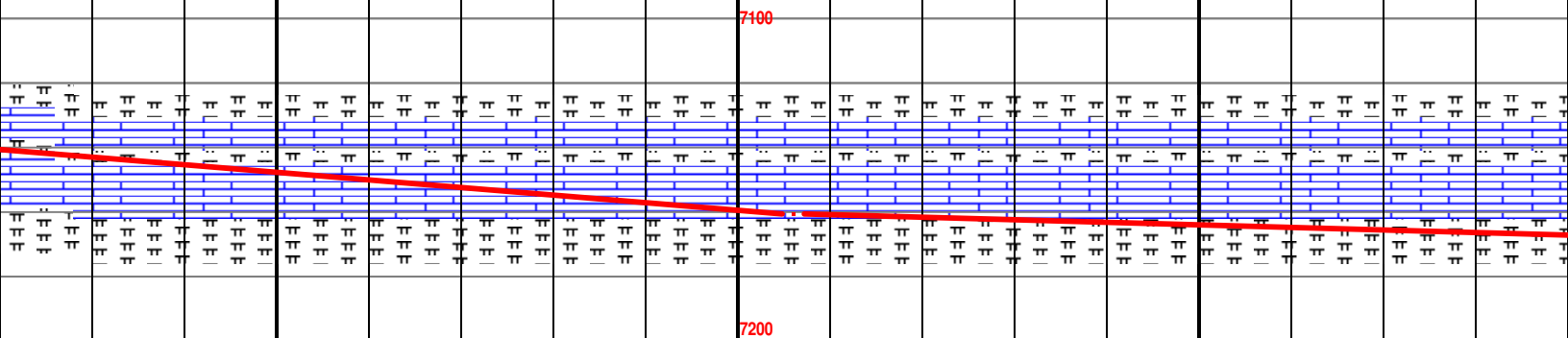


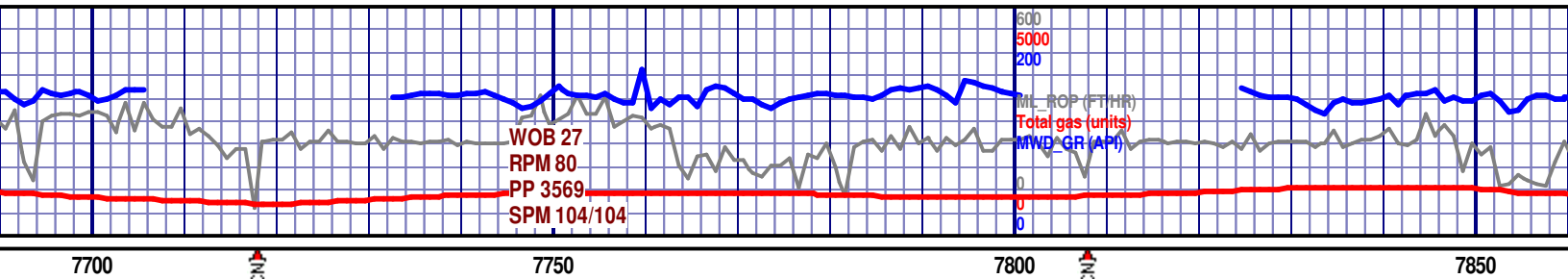
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72.53 AZ 263
667.78

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	INC 81.38	AZ 261.82
	VS -580.34	

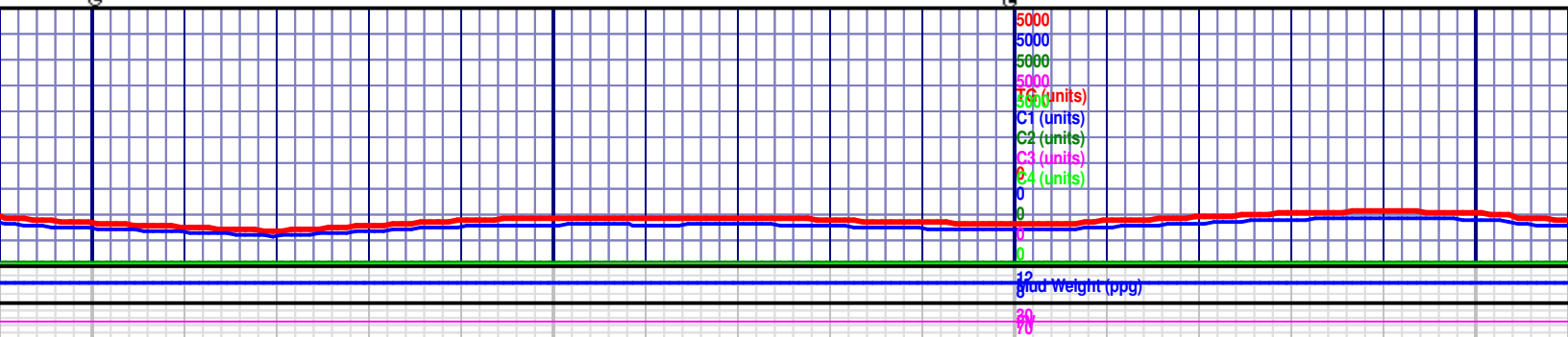
gy -dkgy, occ lt bnsh gy, mott ip, rthy txt, sbblky-sbplyt, frm - sft, rr xln pyr, rr
ln cal frac fil, abn CLCIT frc fill, MRLST: (90%) dkgy - v dk gy, gysh brn, mstly
blky - blky, frm, brit, carb thru; sppty flor, mod slo - mod fast blmg - stmg mlky
d ylwsh grn bn resd rng.

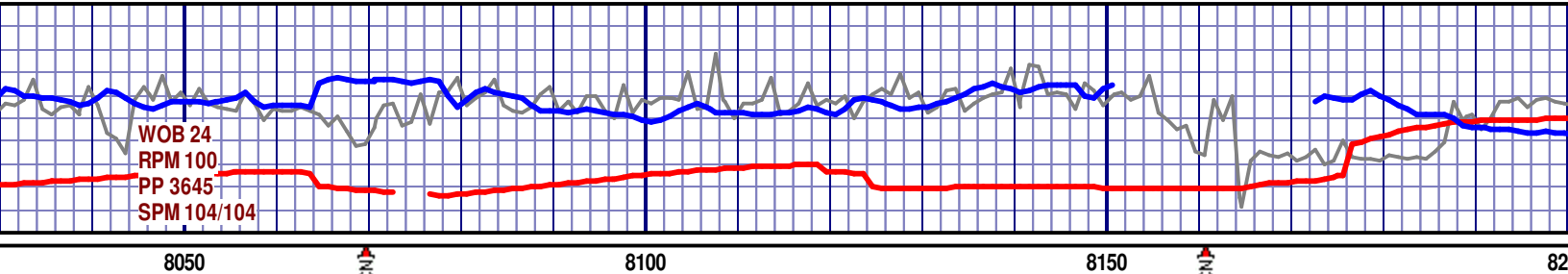
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abn CLCIT frc fill; MRLST: (25%) dkgy - v dk gy, gysh brn, mstly rthy, sbblky - blkgy, frm, bri
thru; sppty flor, slo - mod fast blmg - stmg mlky grnsh yel cut, spptd ylwsh grn resd.



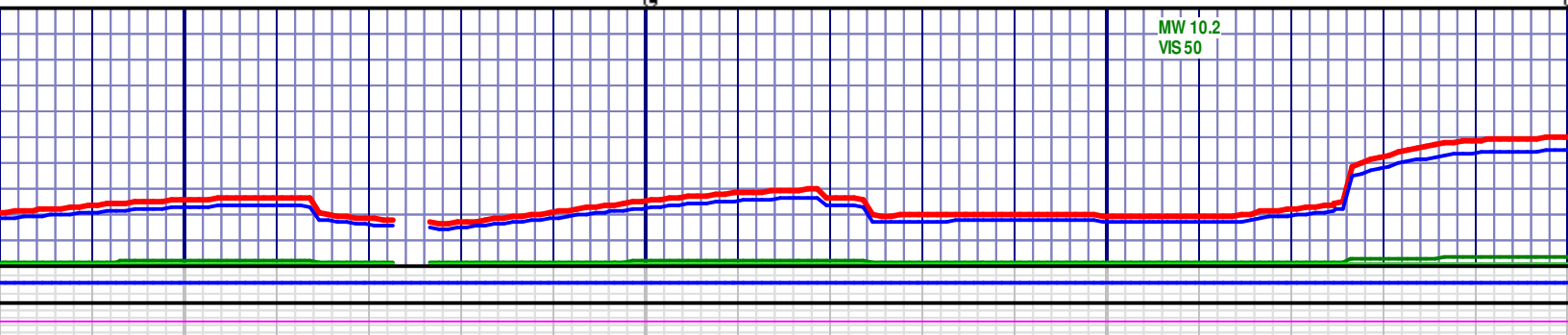


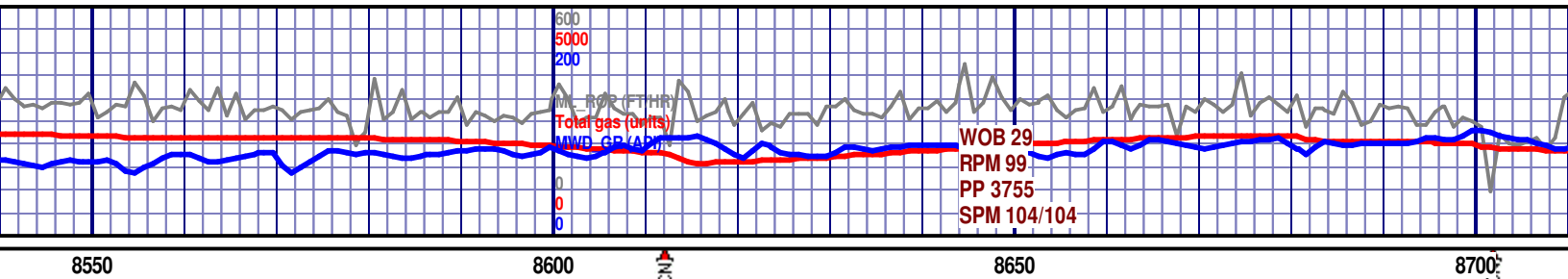
MD 7695 TVD 7167.15 INC 90.09 AZ 263.66 VS -491.8		MD 7784 TVD 7167.15 INC 89.91 AZ 262.99 VS -402.88
clstrs, t, carb	MRLST: (65%) dkgy - v dk gy, gysh brn, mstly rthy, sbbiky - blky, frm, brit, carb thru; CHALK (35%) med gy -dkgy, mod lt bnsh gy, mott ip, rthy txt, sbbiky-sbply, frm - sft, tr pyr clstrs, abn CLCIT frc fill sppty flor, slo - mod fast blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd.	MRLST: (65%) dkgy - v dk gy, gysh brn, mstly rthy, sbbiky - blky, frm, brit, carb thru; CHALK (35%) med gy -dkgy, mod lt bnsh gy, mott ip, rthy txt, sbbiky-sbply, frm - sft, tr pyr clstrs, abn CLCIT frc fill sppty flor, slo - mod fast blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd.
7100	7200	7200



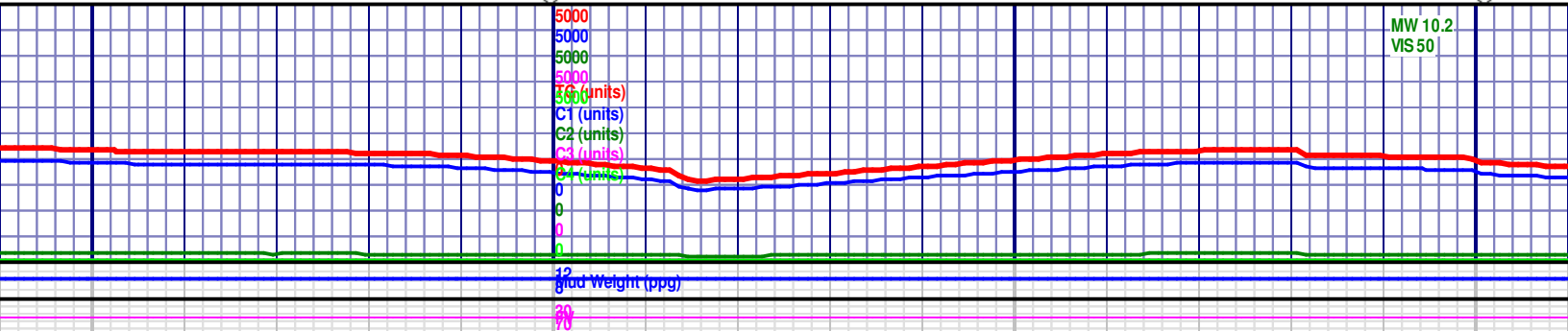


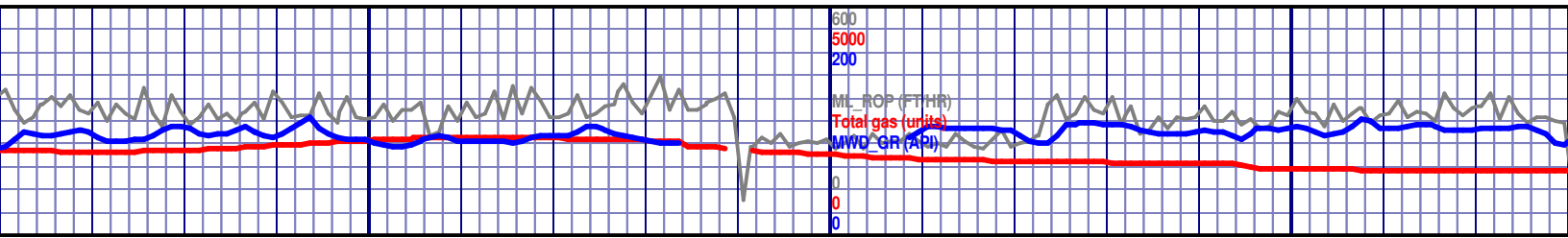
MD 8053 TVD 7167.64 INC 89.88 AZ 268.39 VS-134.99										MD 8142 TVD 7167.02 INC 90.92 AZ 267.1 VS-46.05																																																									
gy, gysh brn, mstly rthy, sbblky - blk, frm, brit, carb thru; CHALK bnsh gy, mott ip, rthy txt, sbblky-sbply, frm - sft, tr pyr clstrs, abn - mod fast blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd.										CHALK (60%) med gy -dkgy, mod lt bnsh gy, mott ip, rthy txt, sbblky-sbply, frm - sft, tr pyr clstrs, abn CLCIT frc fill; MRLST: (40%) dkgy - v dk gy, gysh brn, mstly rthy, sbblky - blk, frm, brit, carb thru; spty flor, slo - mod fast blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd.																																																									
<div>Geological Log Data (Stratigraphic Column)</div> <table><tr><th>Depth (ft)</th><th>Stratigraphic Unit</th><th>Remarks</th></tr><tr><td>8050 - 8060</td><td>CHALK</td><td>gy, gysh brn, mstly rthy, sbblky - blk, frm, brit, carb thru</td></tr><tr><td>8060 - 8070</td><td>CHALK</td><td>bnsh gy, mott ip, rthy txt, sbblky-sbply, frm - sft, tr pyr clstrs, abn</td></tr><tr><td>8070 - 8080</td><td>CHALK</td><td>- mod fast blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd.</td></tr><tr><td>8080 - 8090</td><td>CHALK</td><td></td></tr><tr><td>8090 - 8100</td><td>CHALK</td><td></td></tr><tr><td>8100 - 8110</td><td>CHALK</td><td></td></tr><tr><td>8110 - 8120</td><td>CHALK</td><td></td></tr><tr><td>8120 - 8130</td><td>CHALK</td><td></td></tr><tr><td>8130 - 8140</td><td>CHALK</td><td></td></tr><tr><td>8140 - 8150</td><td>CHALK</td><td></td></tr><tr><td>8150 - 8160</td><td>CHALK</td><td></td></tr><tr><td>8160 - 8170</td><td>CHALK</td><td></td></tr><tr><td>8170 - 8180</td><td>CHALK</td><td></td></tr><tr><td>8180 - 8190</td><td>CHALK</td><td></td></tr><tr><td>8190 - 8200</td><td>CHALK</td><td></td></tr></table>																				Depth (ft)	Stratigraphic Unit	Remarks	8050 - 8060	CHALK	gy, gysh brn, mstly rthy, sbblky - blk, frm, brit, carb thru	8060 - 8070	CHALK	bnsh gy, mott ip, rthy txt, sbblky-sbply, frm - sft, tr pyr clstrs, abn	8070 - 8080	CHALK	- mod fast blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd.	8080 - 8090	CHALK		8090 - 8100	CHALK		8100 - 8110	CHALK		8110 - 8120	CHALK		8120 - 8130	CHALK		8130 - 8140	CHALK		8140 - 8150	CHALK		8150 - 8160	CHALK		8160 - 8170	CHALK		8170 - 8180	CHALK		8180 - 8190	CHALK		8190 - 8200	CHALK	
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8170 - 8180	CHALK																																																																		
8180 - 8190	CHALK																																																																		
8190 - 8200	CHALK																																																																		





MD 8589 TVD 7161.23 INC 89.66 AZ 264.59 VS 400.74		MD 8679 TVD 7161.57 INC 89.91 AZ 264.4 VS 490.71	
gy, mott ip, rthy txt, sbblky-sbply, frm - sft; MRLST: (20%) blky - blky, frm, brit, carb thru; spty flor, slo - mod fast blmg - n resd.	CHALK (80%) med gy -dkgy, mod lt bnsh gy, mott ip, rthy txt, sbblky-sbply, frm - sft; MRLST: (20%) dkgy - v dk gy, gysh brn, mstly rthy, sbblky - blky, frm, brit, carb thru; spty flor, slo - mod fast blmg - stmg milky grnsh yel cut, spttd ylwsh grn resd.		CHALK dkgy - v blmg - s
7100			





8750

8800

8850

MD 8768 TVD 7161.66
INC 89.97 AZ 263.41
VS 579.67

7000 TVD

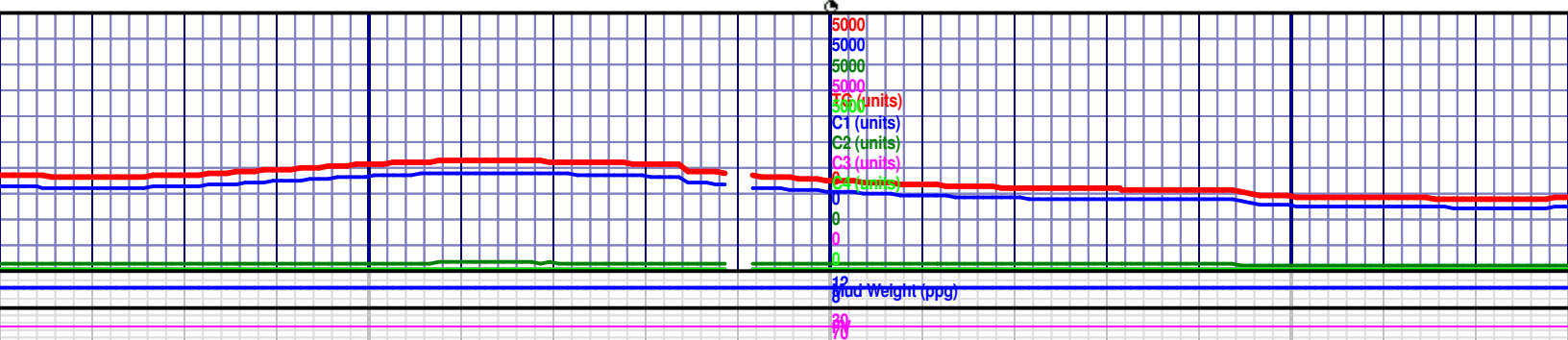
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INC 90.25 AZ 263.6
VS 669.6

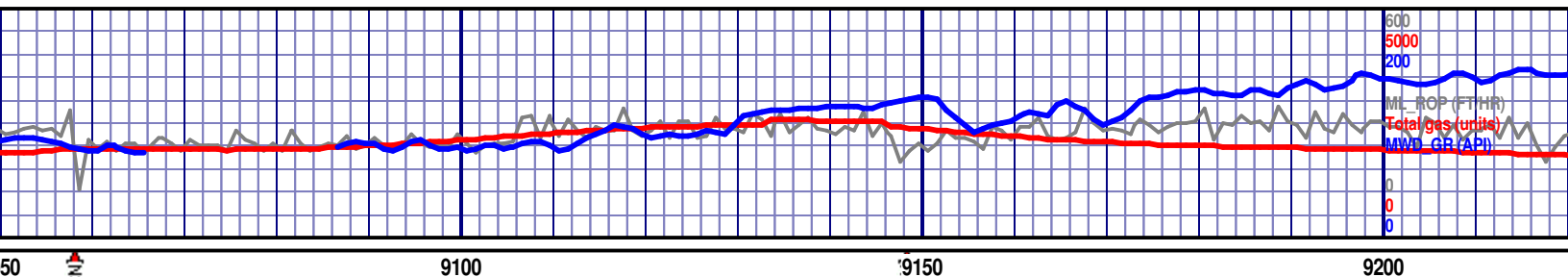
(80%) med gy -dkgy, mod lt bnsh gy, mott ip, rthy txt, sbblky-sbplty, frm - sft; MRLST: (20%)
dk gy, gysh brn, mstly rthy, sbblky - blky, frm, brit, carb thru; sptty flor, slo - mod fast
tmg mlky grnsh yel cut, spttd ylwsh grn resd.

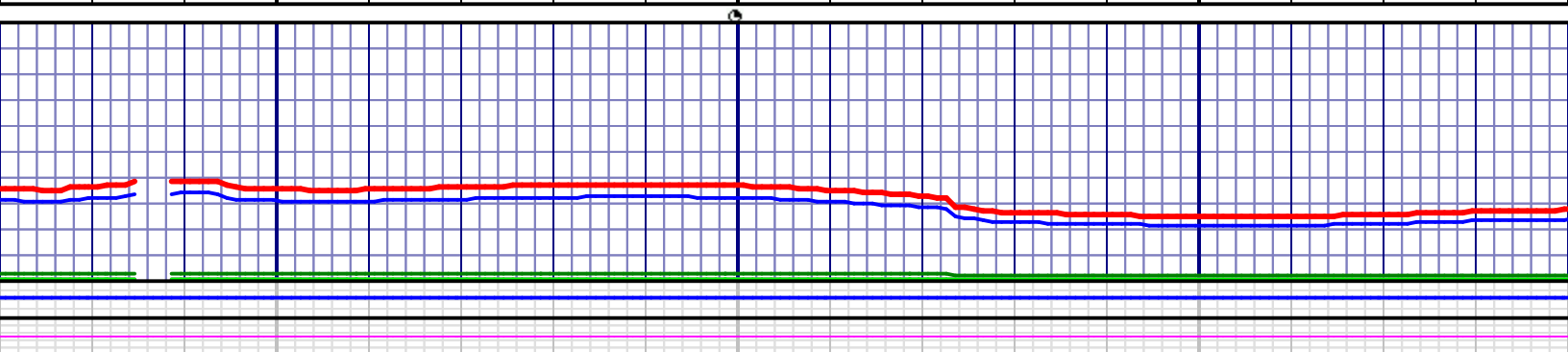
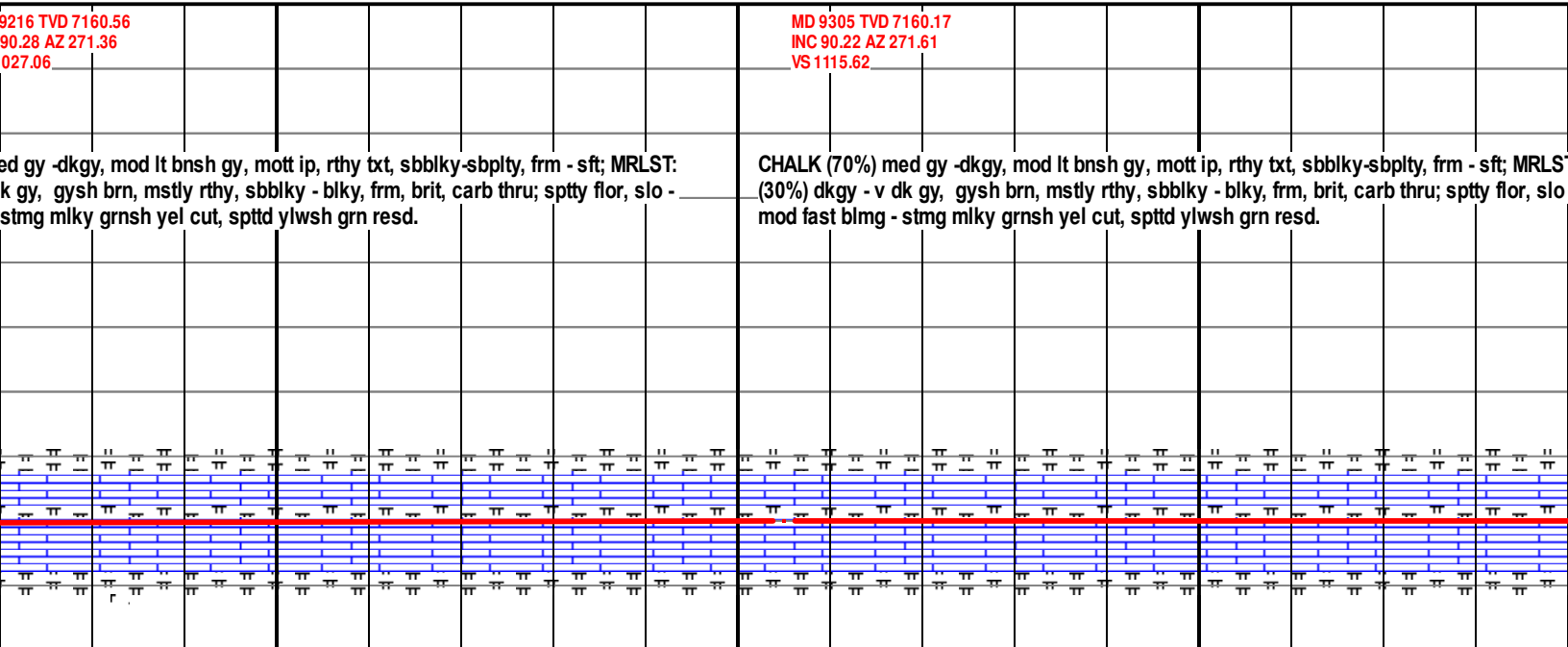
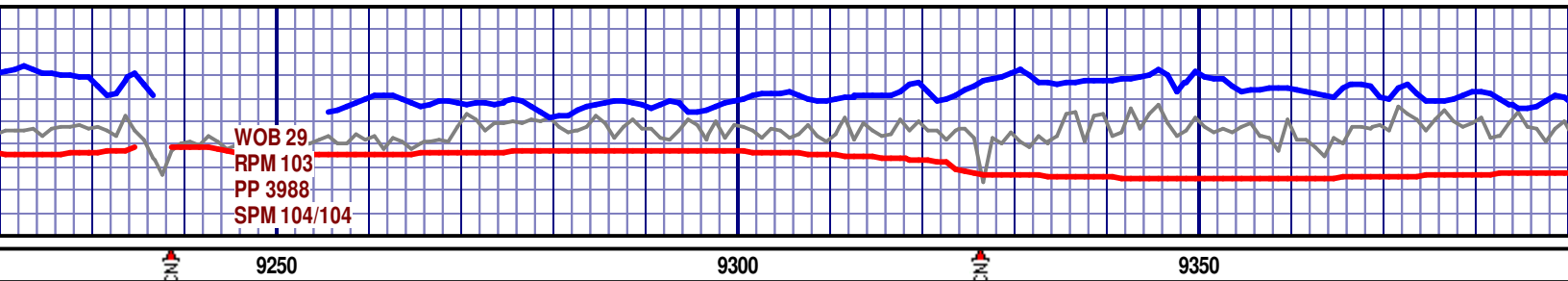
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(20%) dkgy - v dk gy, gysh brn, mstly rthy, sbblky - blky, frm, brit, carb thru; spttd
fast blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd.

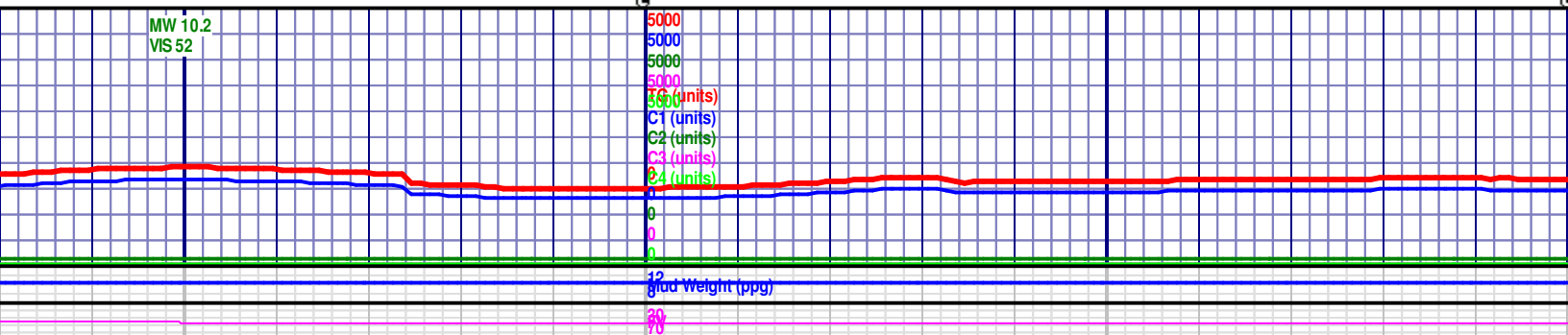
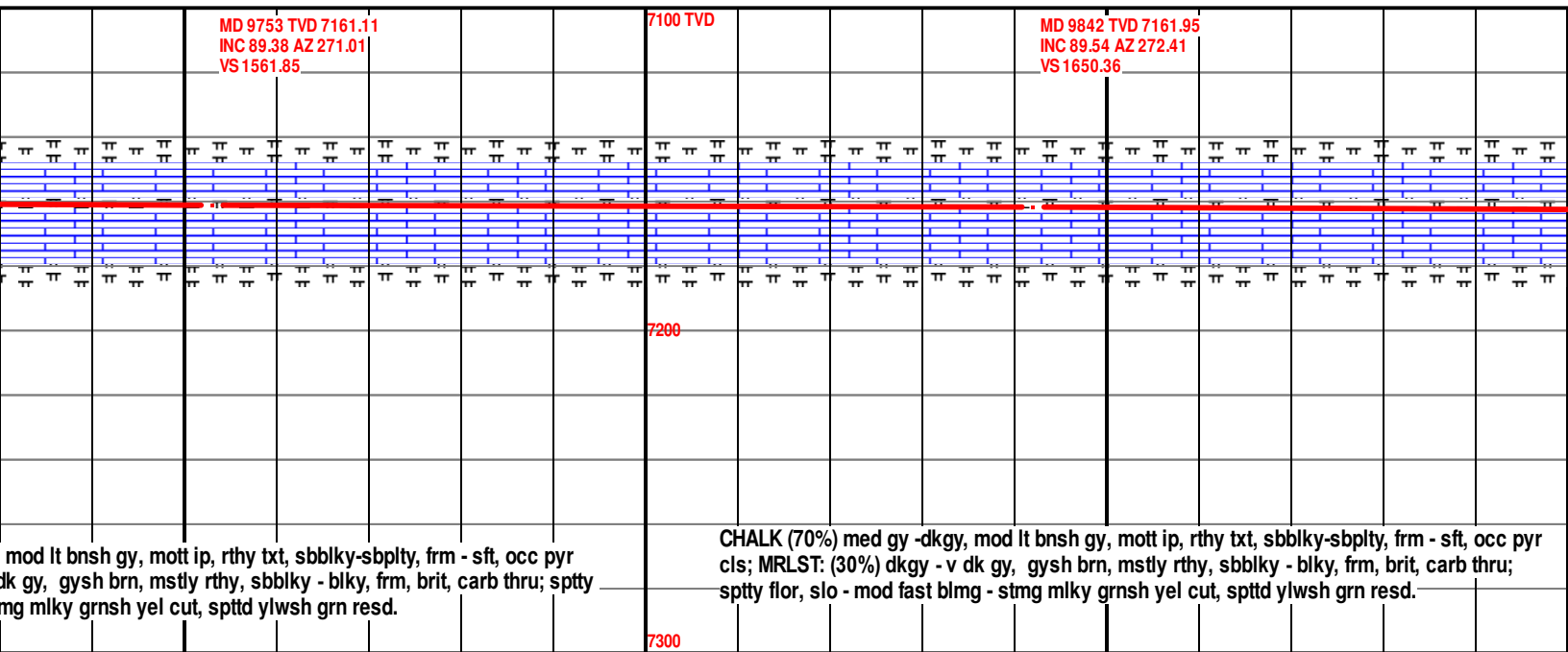
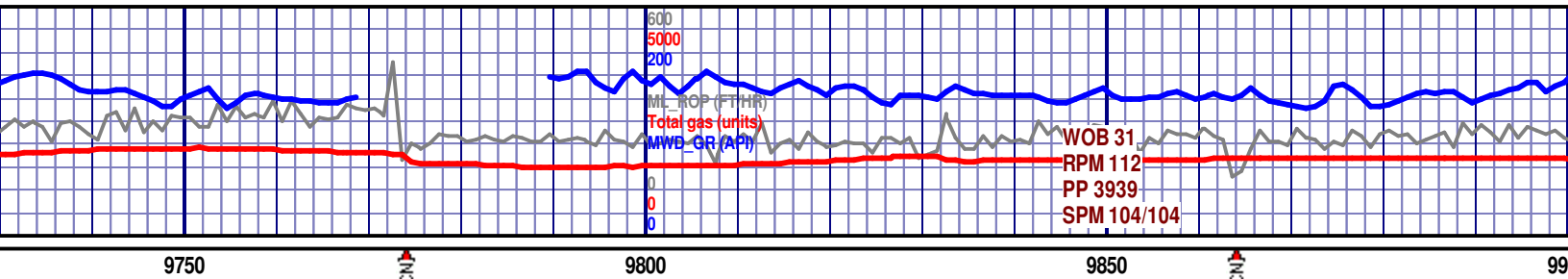
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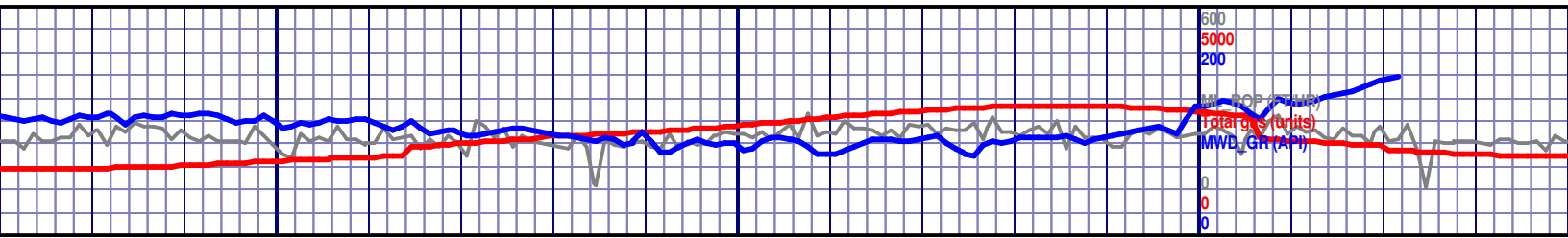
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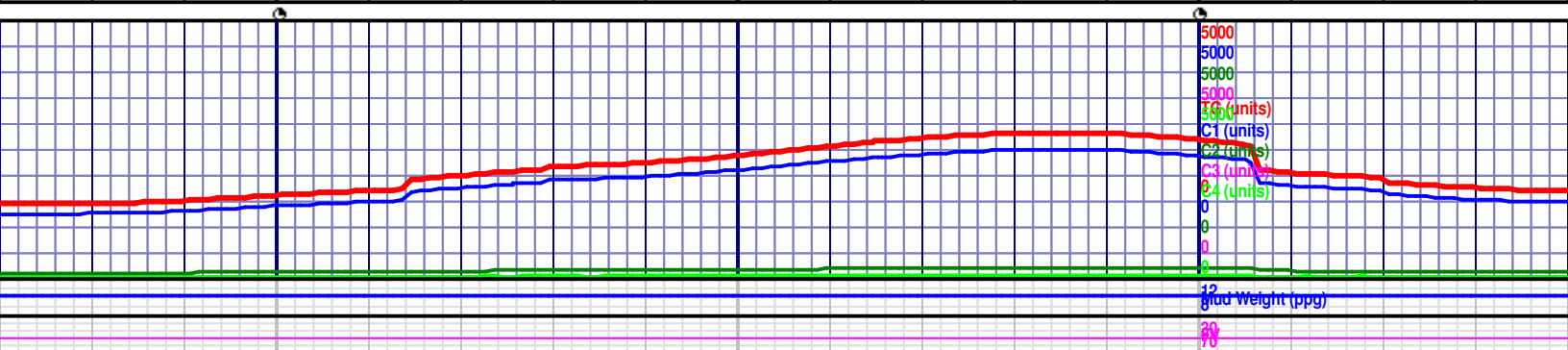
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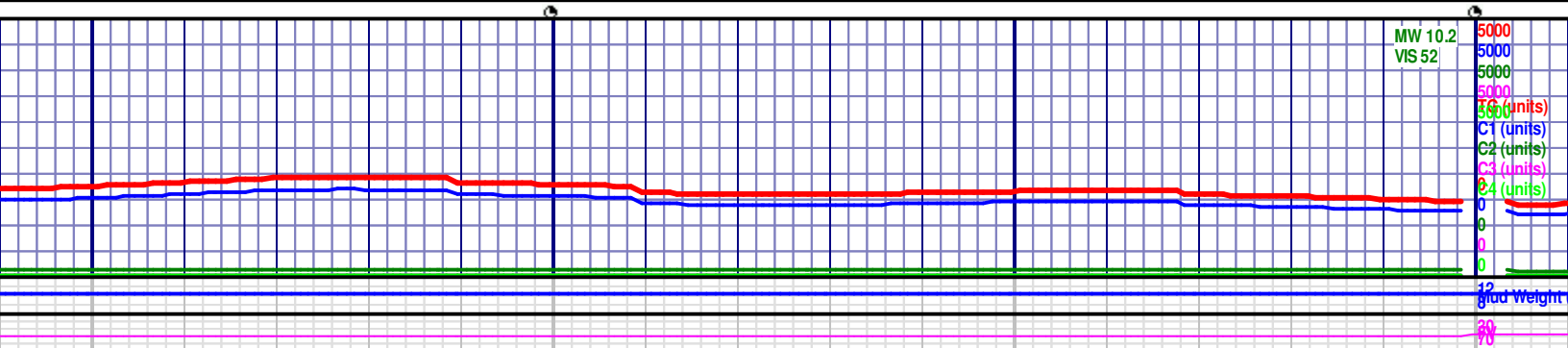
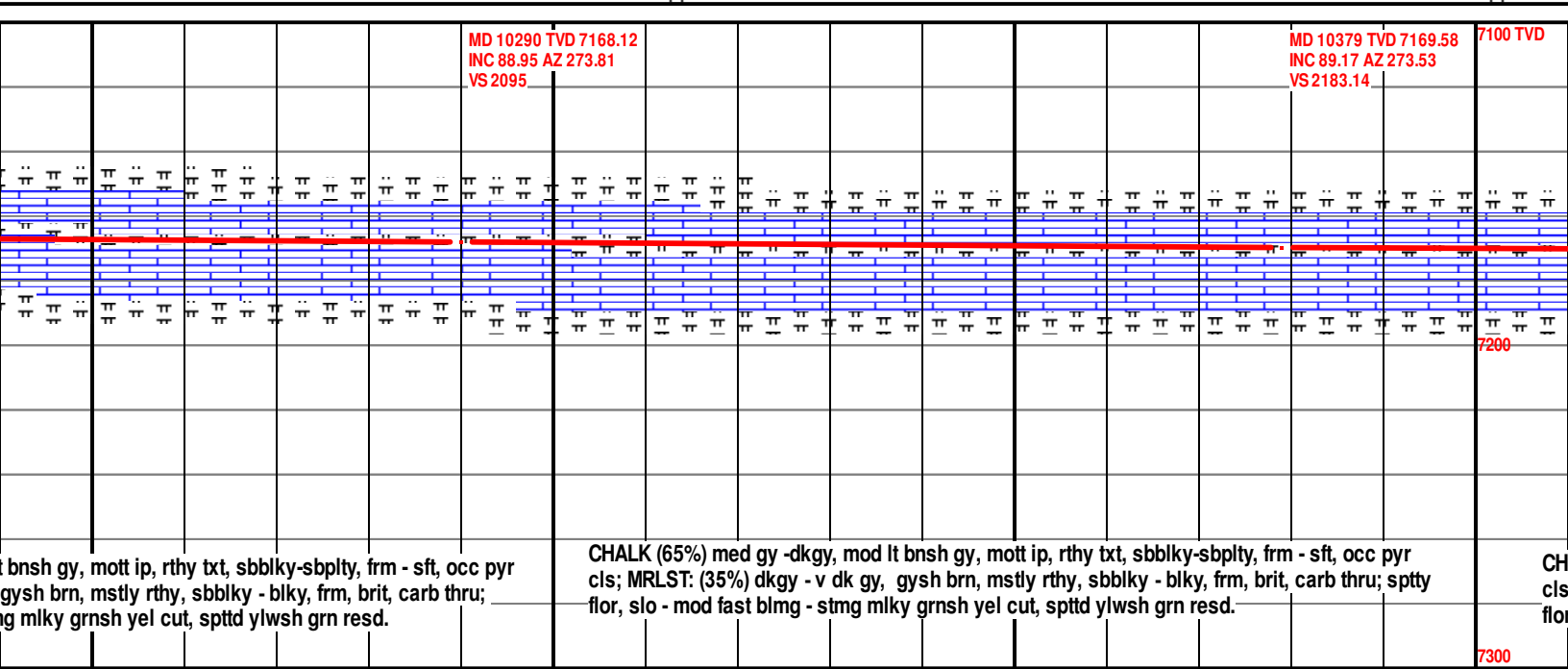
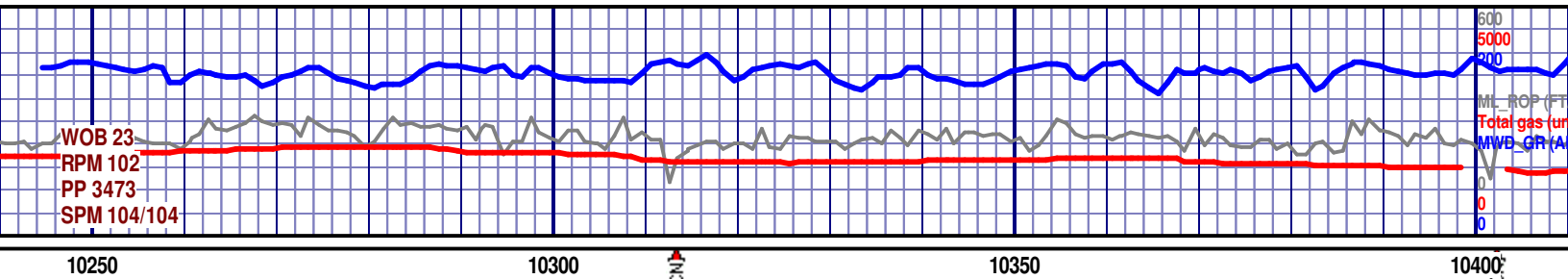


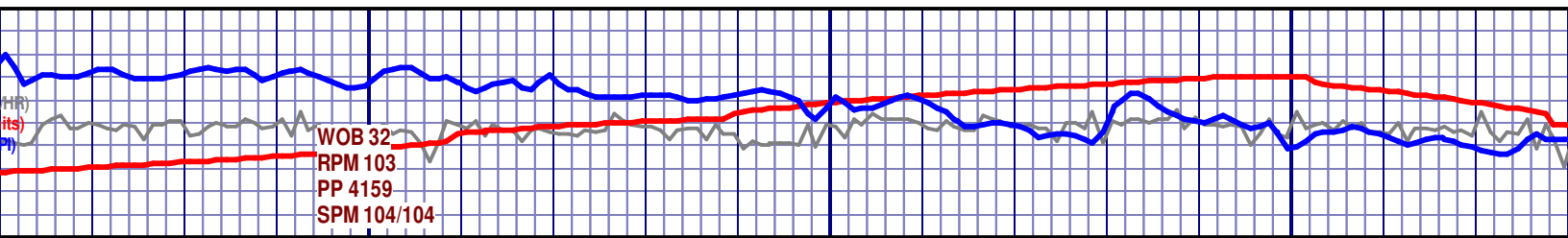




<p>ky-sbplty, frm - sft, occ pyr blky, frm, brit, carb thru; vsh grn resd.</p>	<p>MD 10111 TVD 7165.05 INC 89.02 AZ 272.22 VS 1917.45</p> <p>CHALK (80%) med gy -dkgy, mod lt bnsh gy, mott ip, rthy txt, sbblky-sbplty, frm - sft, occ pyr cls; MRLST: (20%) dkgy - v dk gy, gysh brn, mstly rthy, sbblky - blky, frm, brit, carb thru; sptty flor, slo - mod fast blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd.</p>	<p>MD 10200 TVD 7166.55 INC 89.05 AZ 272.91 VS 2005.81</p> <p>CHALK (60%) med gy -dkgy, mod lt cls; MRLST: (40%) dkgy - v dk gy, sptty flor, slo - mod fast blmg - str</p>
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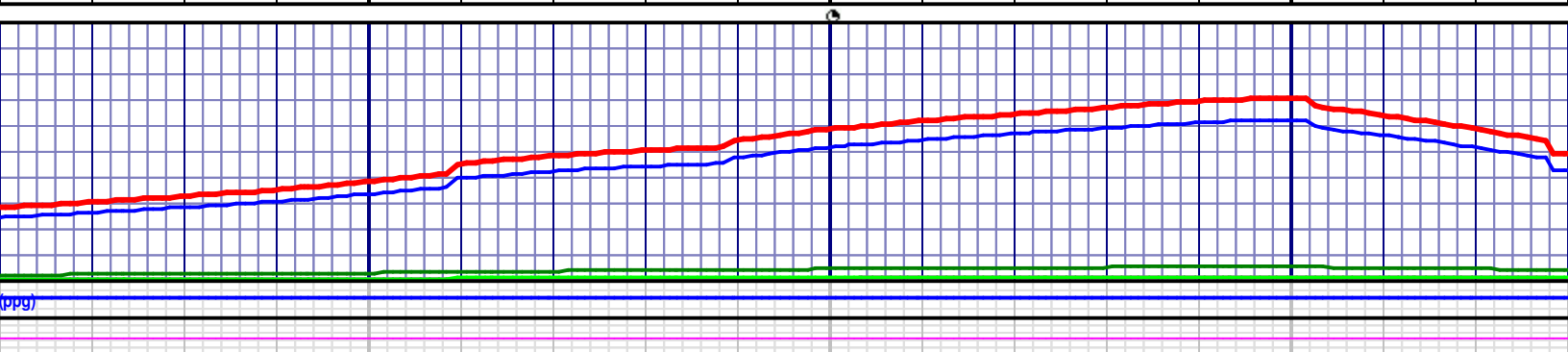
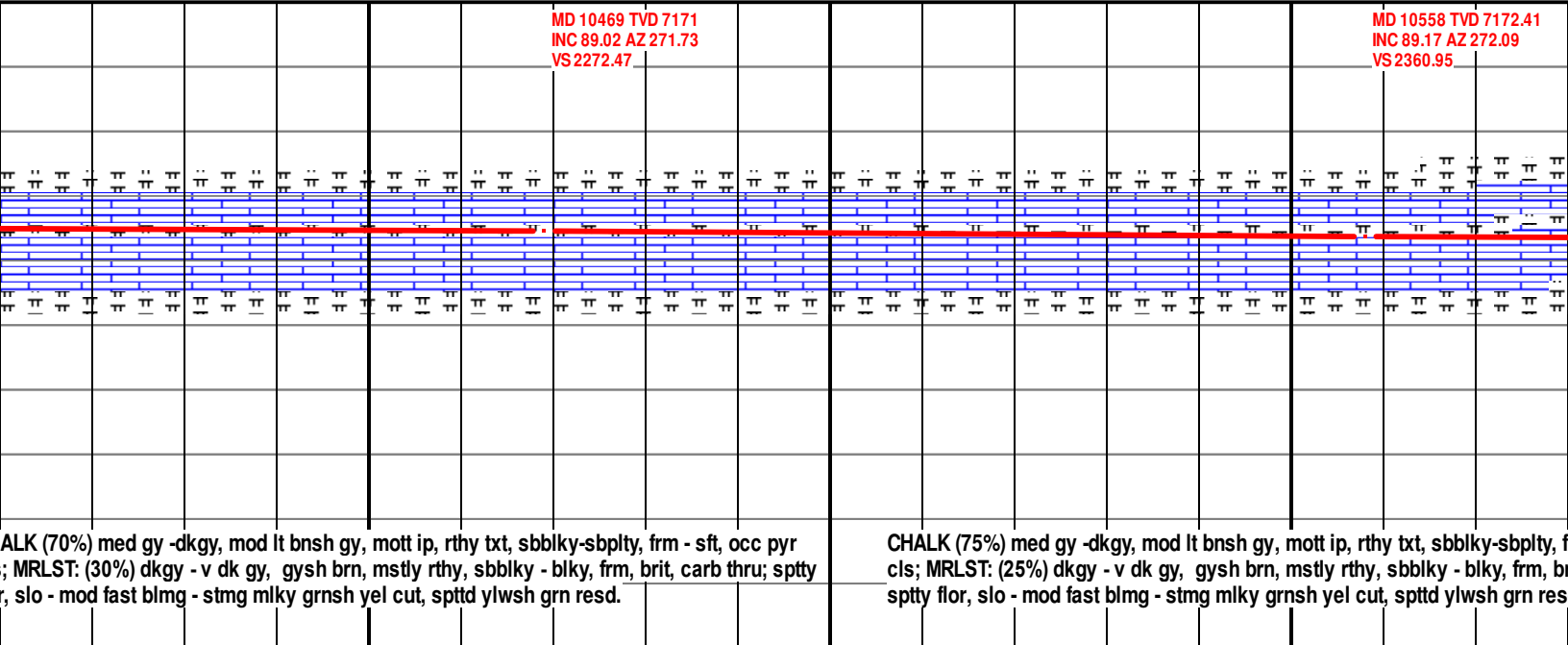
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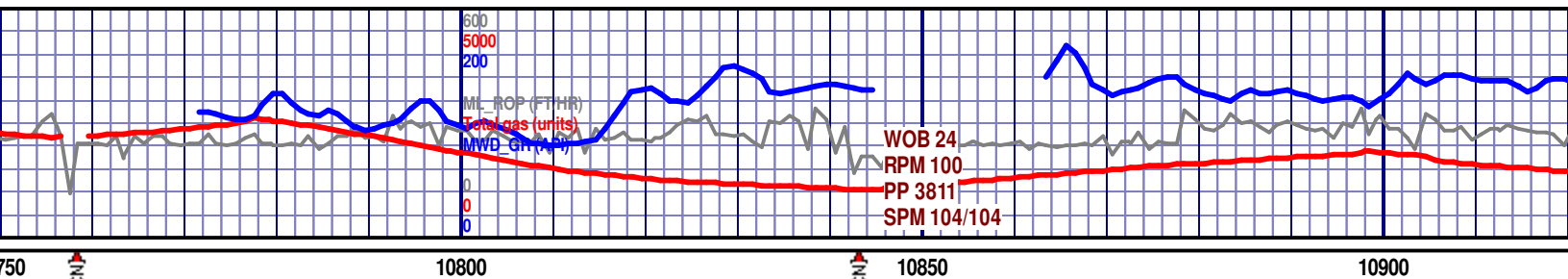
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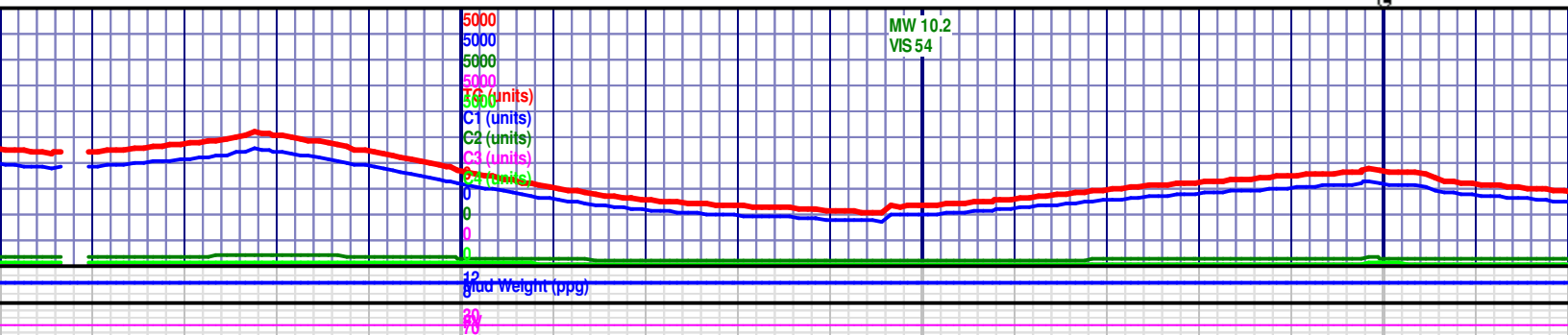
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VS 2272.47

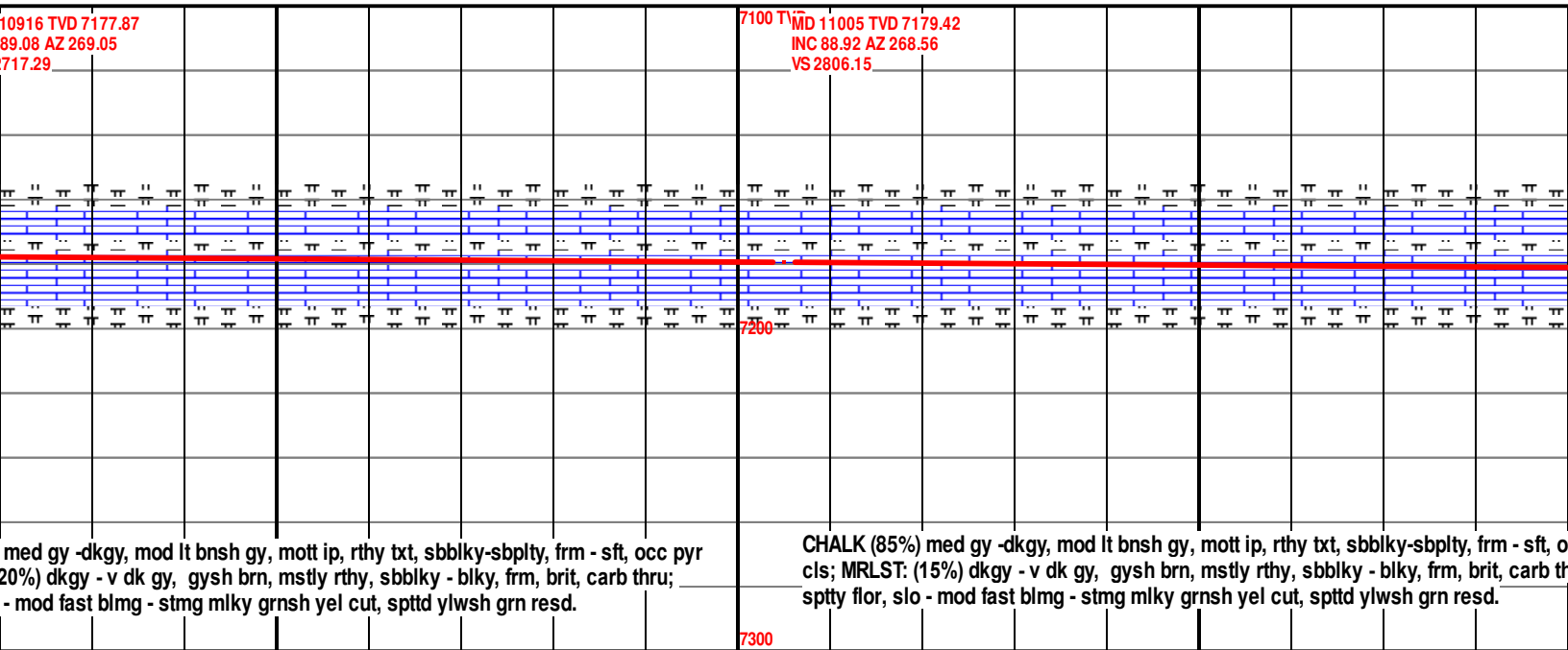
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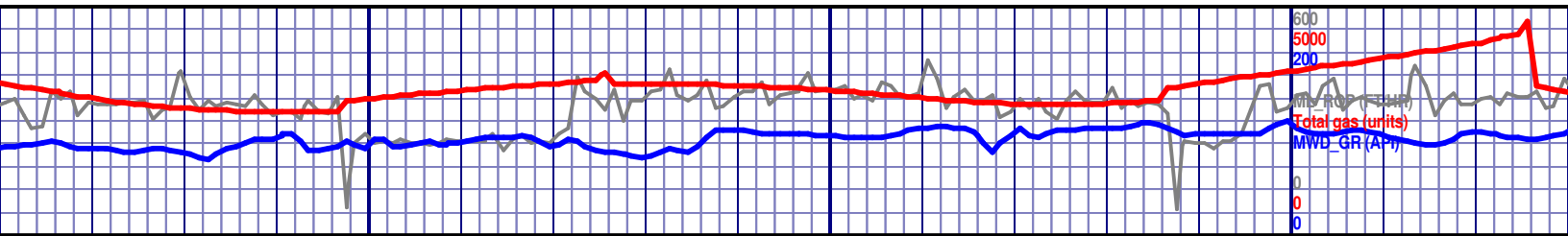




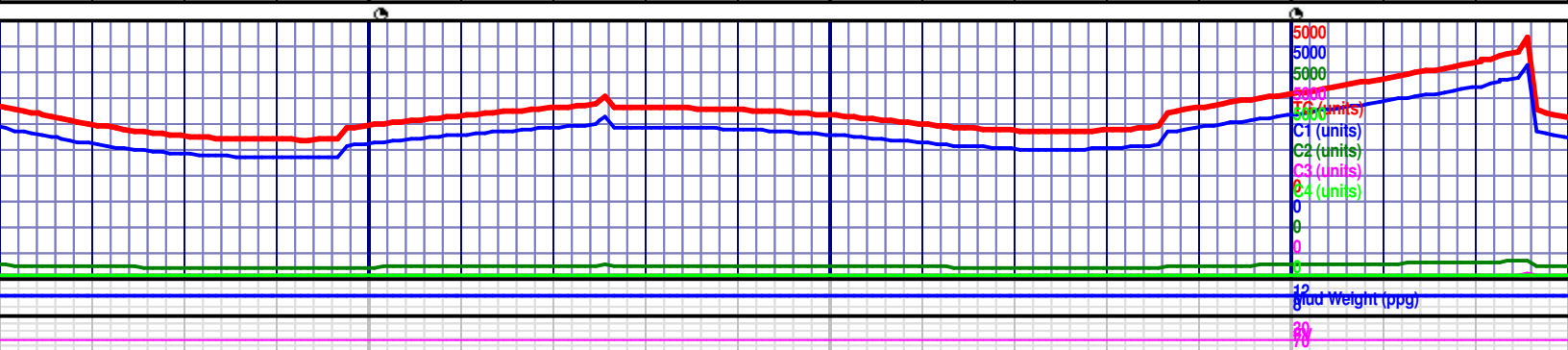
7174.98 .37	7100 TVD	MD 10826 TVD 7176.37 INC 89.01 AZ 269.68 VS 2627.48		MD INC VS 2
<div>CHALK (80%) med gy -dkgy, mod lt bnsh gy, mott ip, rthy txt, sbblky-sbplty, frm - sft, occ pyr cls, gysh brn, mstly rthy, sbblky - blky, frm, brit, carb grnsh yel cut, spttd ylwsh grn resd.</div>	<div>7200</div>	<div>CHALK (80%) med gy -dkgy, mod lt bnsh gy, mott ip, rthy txt, sbblky-sbplty, frm - sft, occ pyr cls, Tr xls cal frac fil; MRLST: (20%) dkgy - v dk gy, gysh brn, mstly rthy, sbblky - blky, frm, brit, carb thru; sptty flor, slo - mod fast blmg - stng mlky grnsh yel cut, spttd ylwsh grn resd.</div>		<div>CHALK (80%) cls; MRLST: (20%) dkgy - v dk gy, gysh brn, mstly rthy, sbblky - blky, frm, brit, carb thru; sptty flor, slo - mod fast blmg - stng mlky grnsh yel cut, spttd ylwsh grn resd.</div>
	7300			

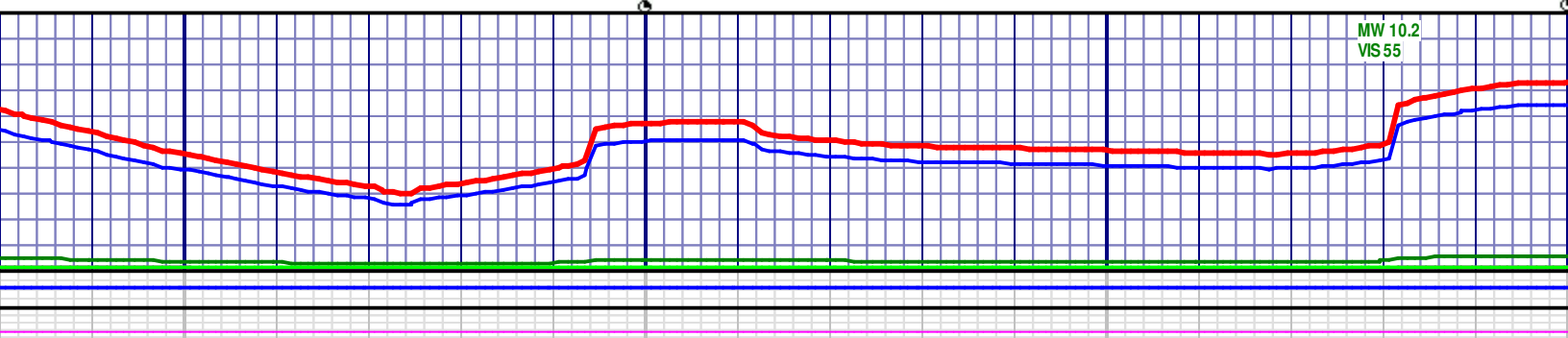
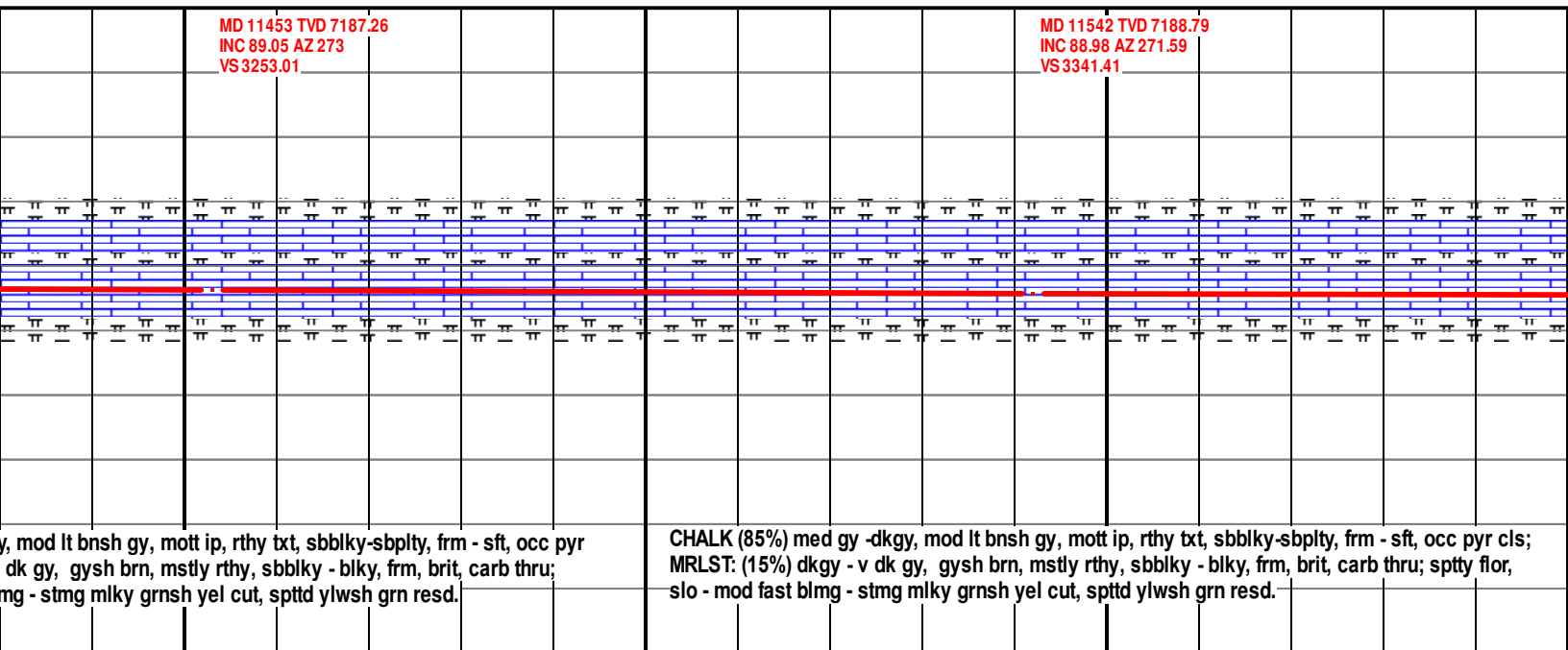
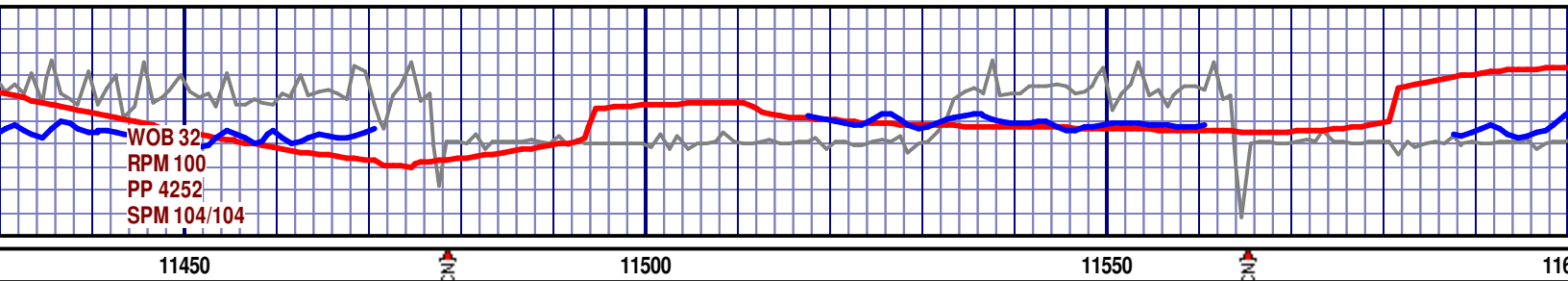


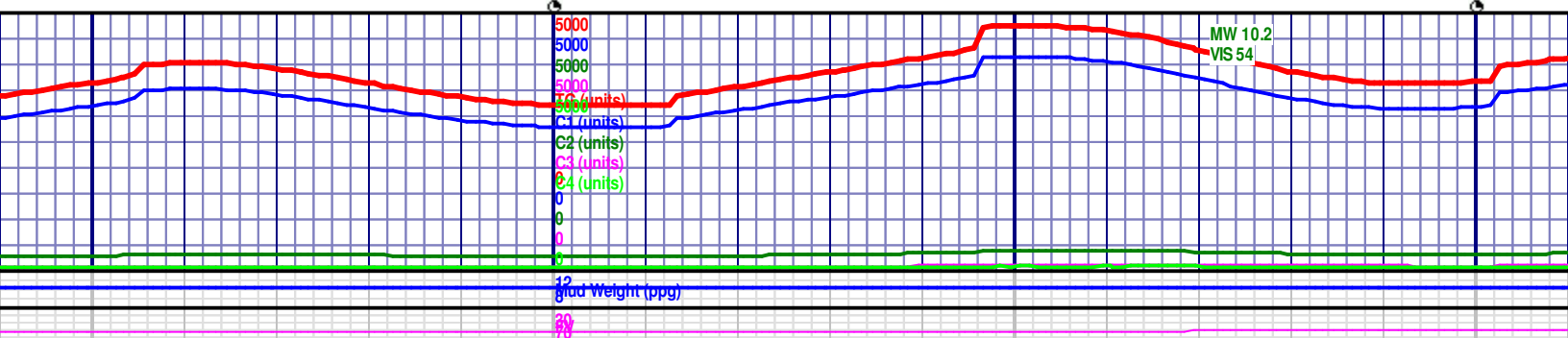
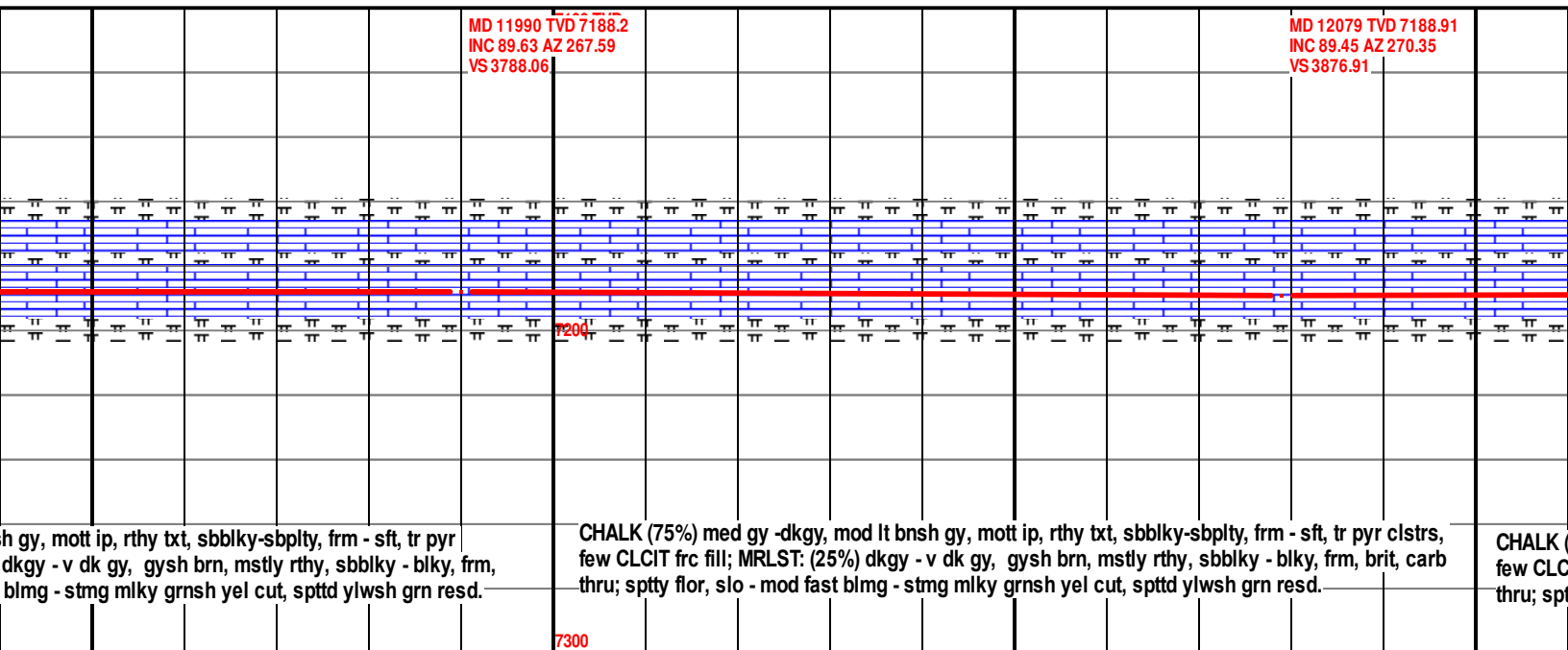
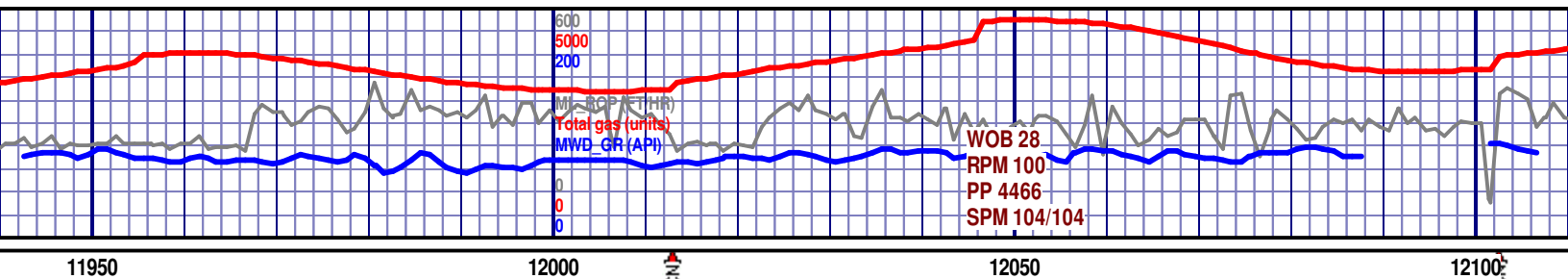


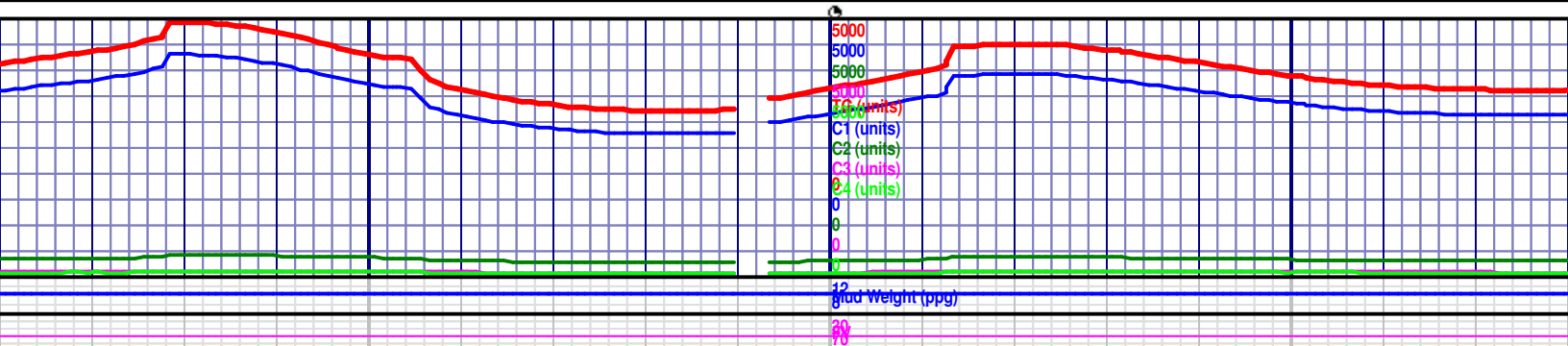
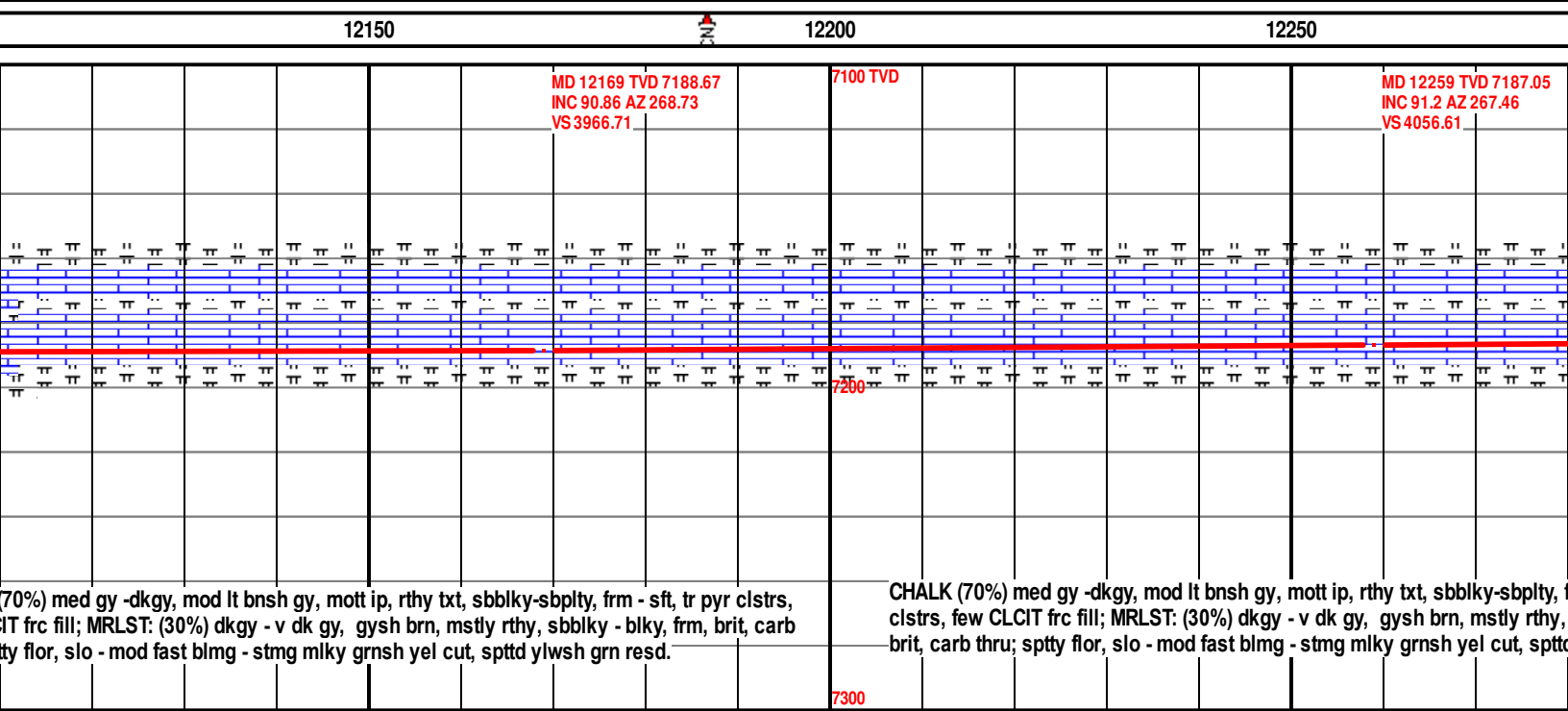
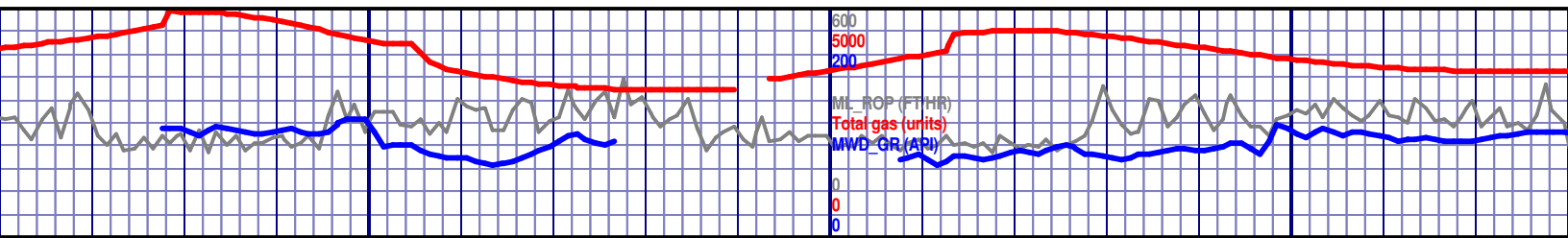


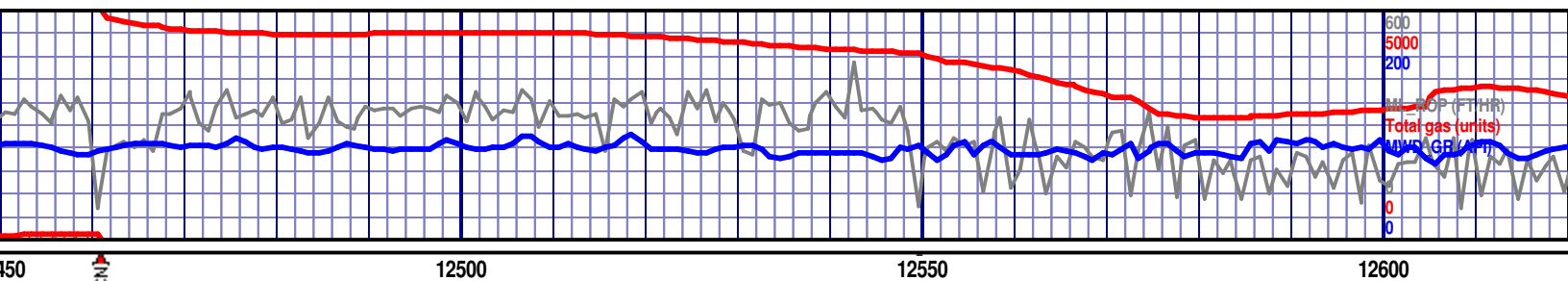
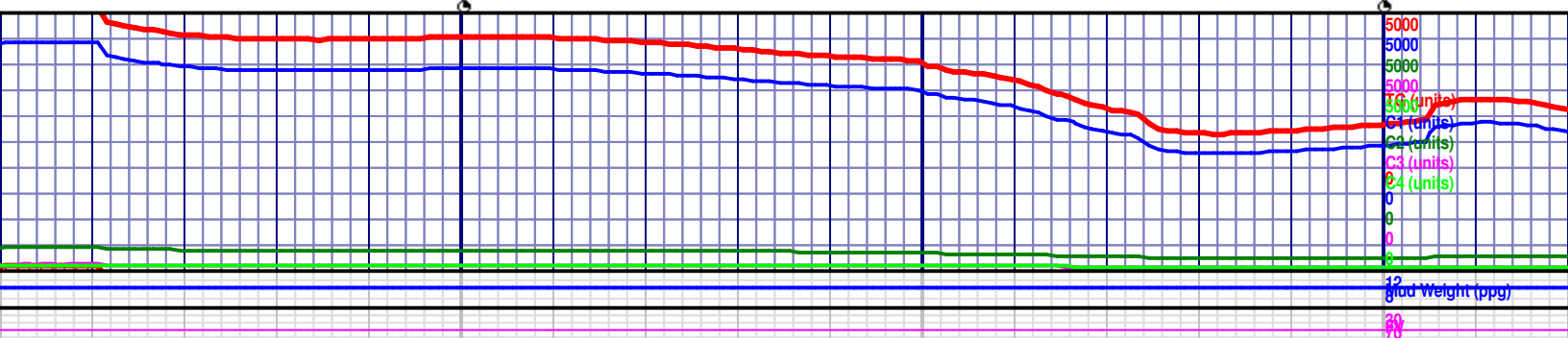
<p>MD 11274 TVD 7184.79 INC 89.08 AZ 268.69 VS 3074.72</p> <p>7100'</p> <p>7200'</p> <p>7300'</p> <p>CHALK (85%) med gy -dkgy, mod lt bnsh gy, mott ip, rthy txt, sbblky-sbplty, frm - sft, occ pyr cls; MRLST: (15%) dkgy - v dk gy, gysh brn, mstly rthy, sbblky - blky, frm, brit, carb thru; spty flor, slo - mod fast blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd.</p>	<p>MD 11363 TVD 7186.01 INC 89.35 AZ 270.37 VS 3163.51</p> <p>CHALK (85%) med gy -dkgy, mod lt bnsh gy, mott ip, rthy txt, sbblky-sbplty, frm - sft, occ pyr cls; MRLST: (15%) dkgy - v dk gy, gysh brn, mstly rthy, sbblky - blky, frm, brit, carb thru; spty flor, slo - mod fast blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd.</p>	<p>7100 TVD</p> <p>7200'</p> <p>7300'</p> <p>CHALK (85%) med gy -dkgy - cls; MRLST: (15%) dkgy - v spty flor, slo - mod fast bl</p>
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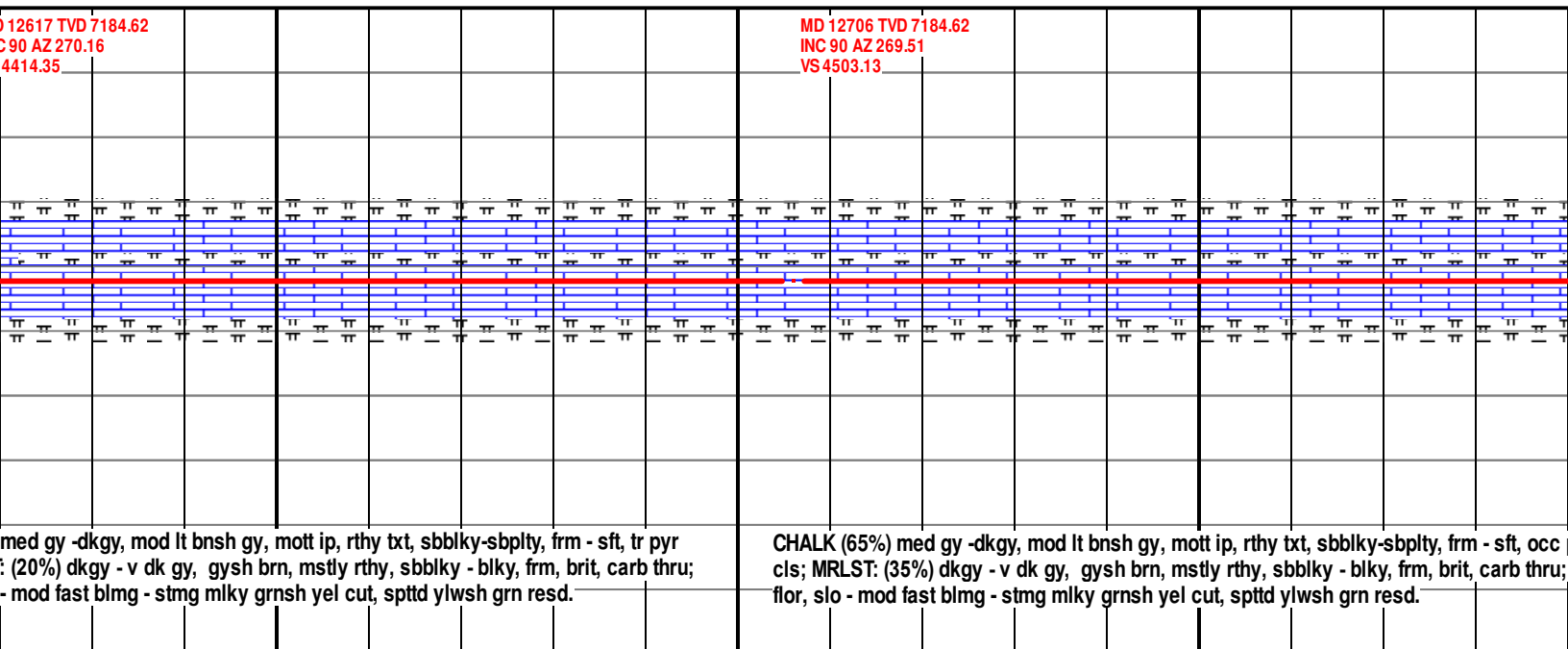
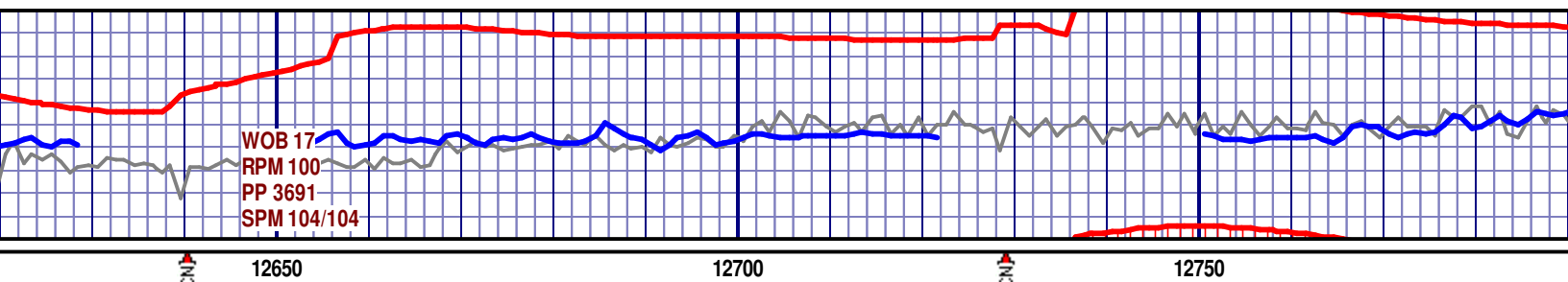


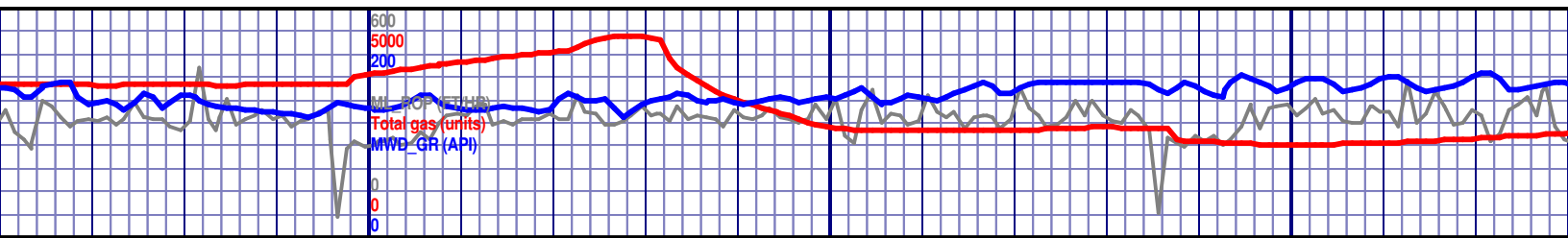






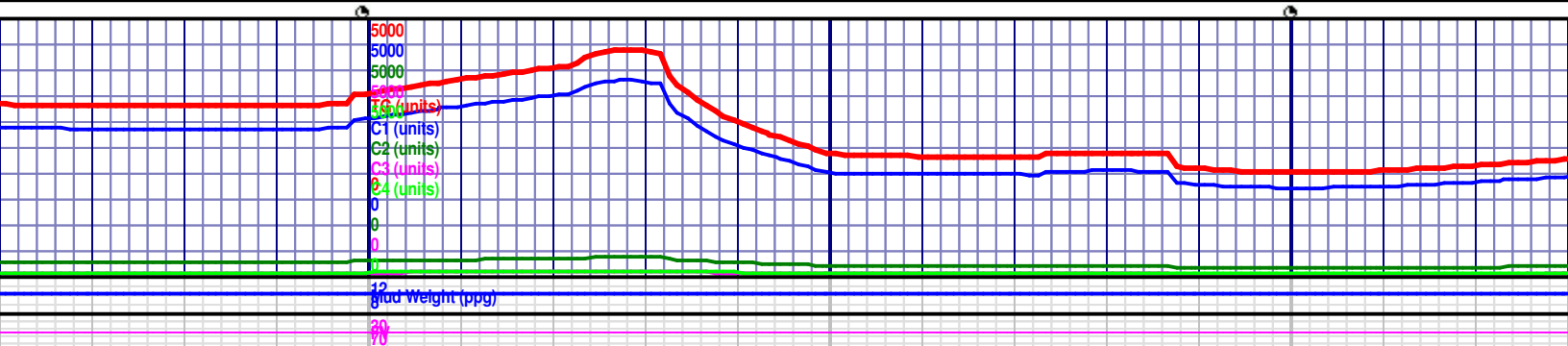
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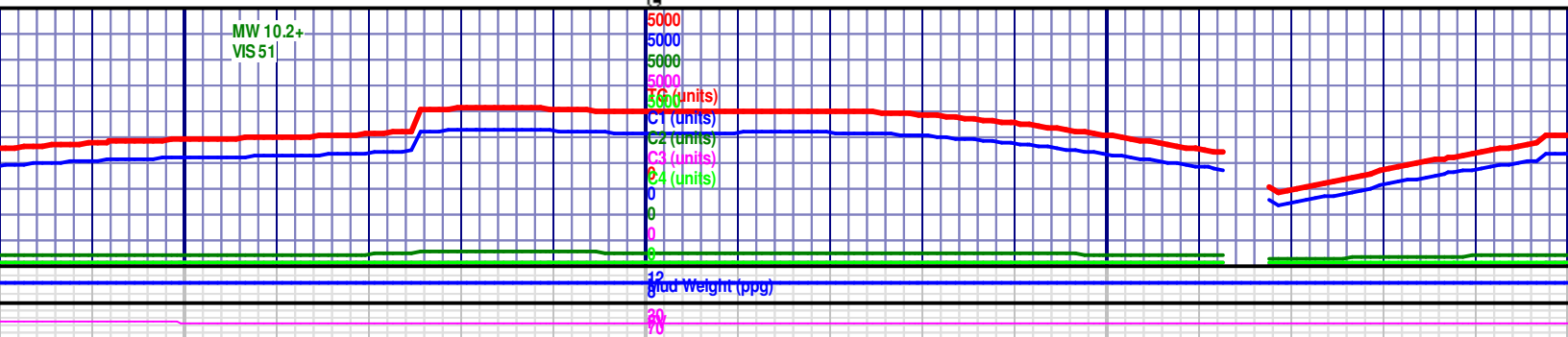
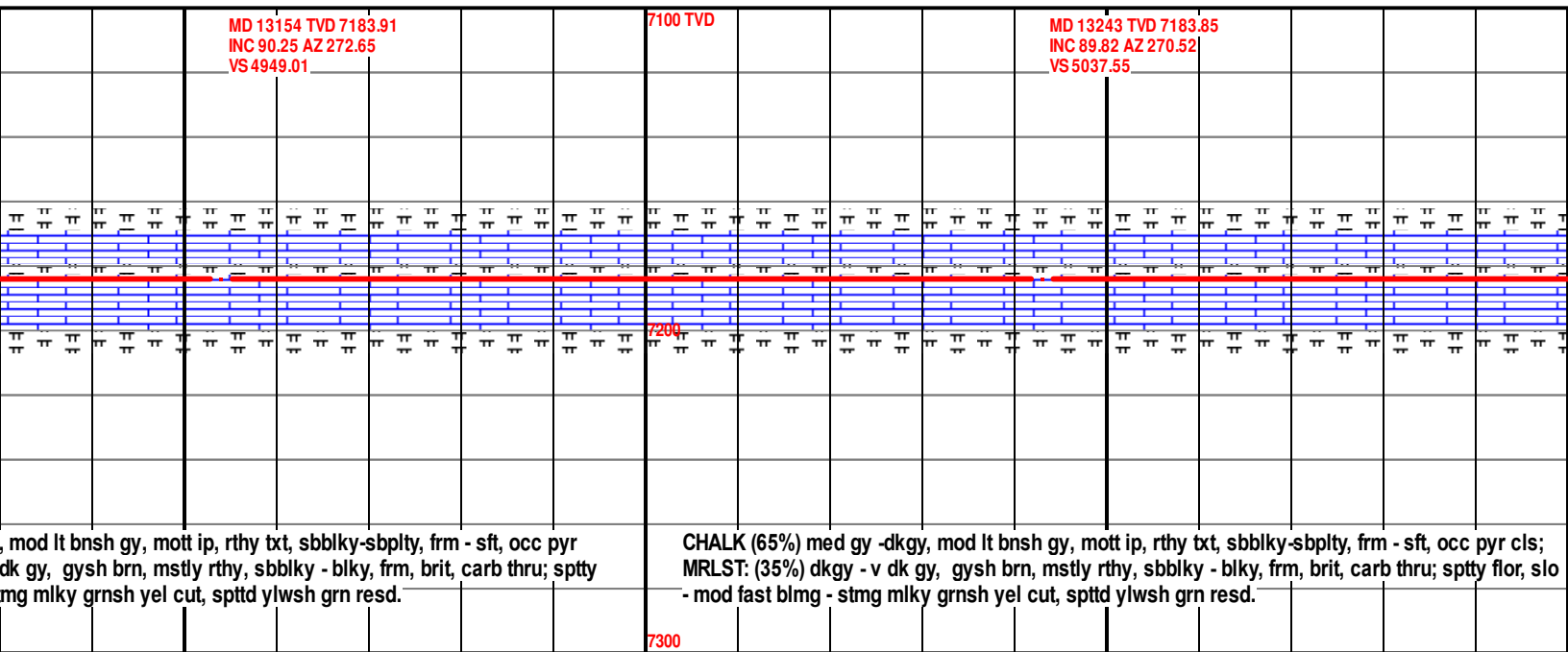
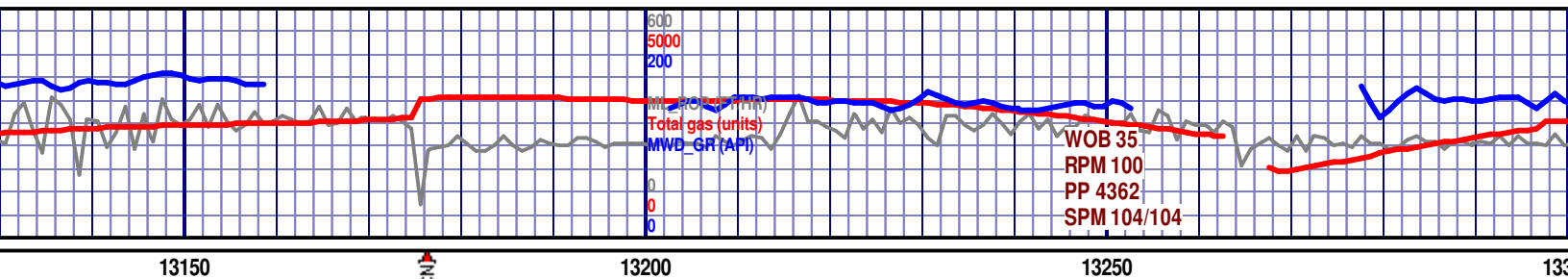


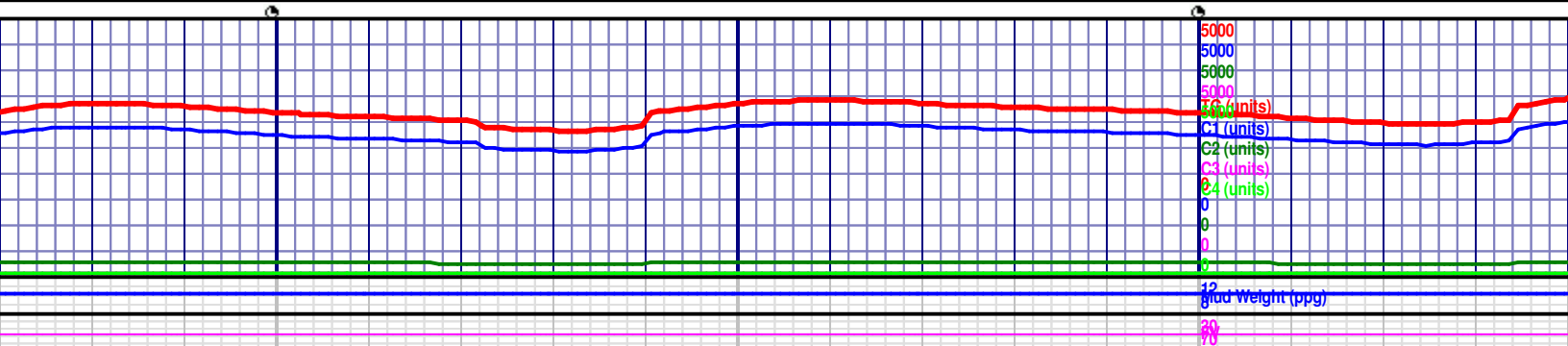
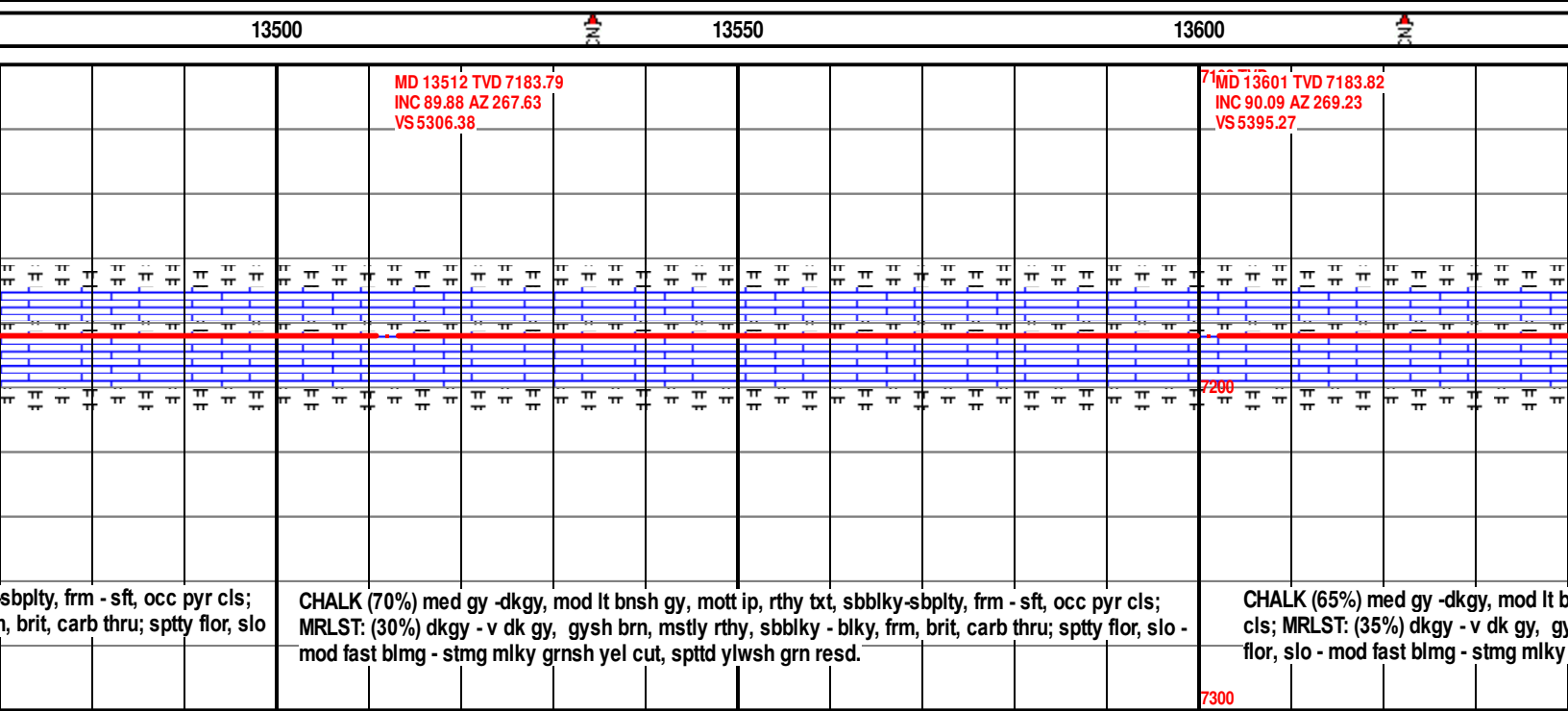
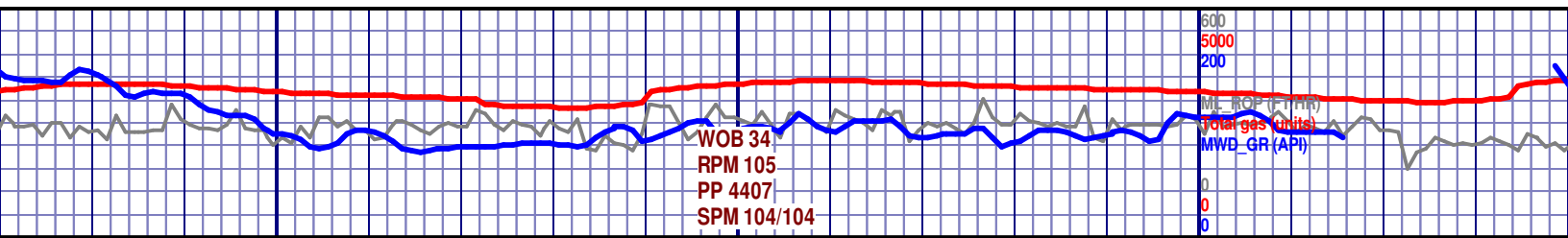


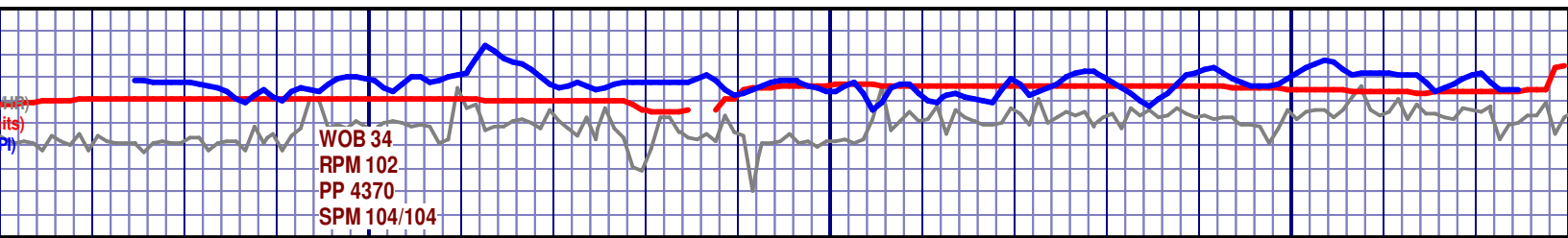
13000 13050 13100


<p>MD 12975 TVD 7184.43 INC 90.12 AZ 272.2 VS 4771.13</p> <p>7100 TVD</p> <p>7290</p> <p>sbbiky-sbply, frm - sft, occ pyr cls; blky, frm, brit, carb thru; spty flor, slo - sd.</p>	<p>CHALK (65%) med gy -dkgy, mod lt bnsh gy, mott ip, rthy txt, sbbiky-sbply, frm - sft, occ pyr cls; MRLST: (35%) dkgy - v dk gy, gysh brn, mstly rthy, sbbiky - blky, frm, brit, carb thru; spty flor, slo - mod fast blmg - stmg milky grnsh yel cut, spttd ylwsh grn resd.</p>	<p>MD 13064 TVD 7184.22 INC 90.15 AZ 271.87 VS 4859.6</p> <p>7300</p> <p>CHALK (65%) med gy -dkgy, cls; MRLST: (35%) dkgy - v flor, slo - mod fast blmg - st</p>	
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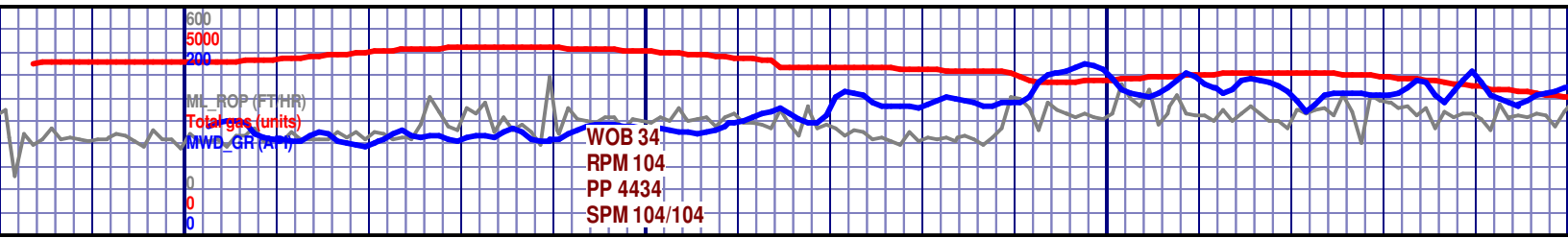




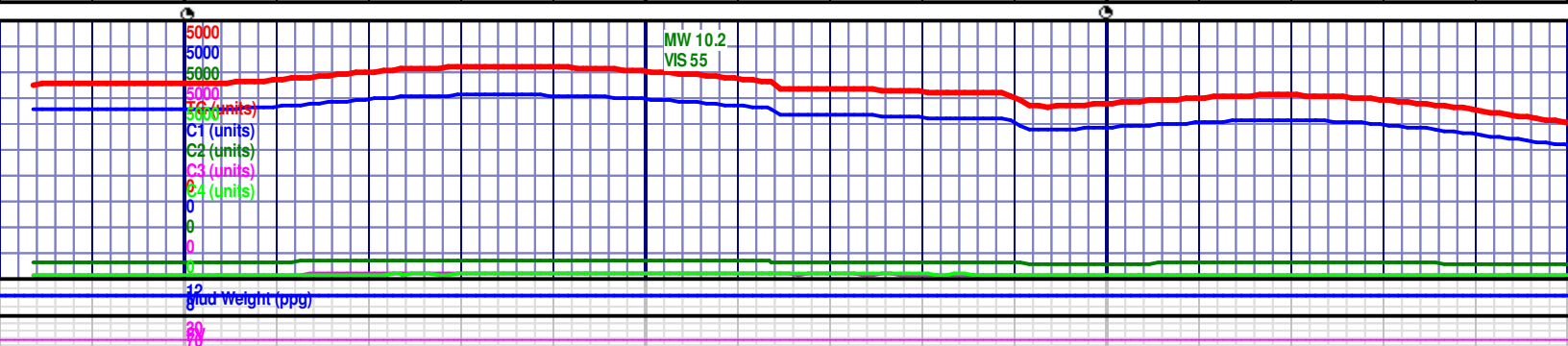
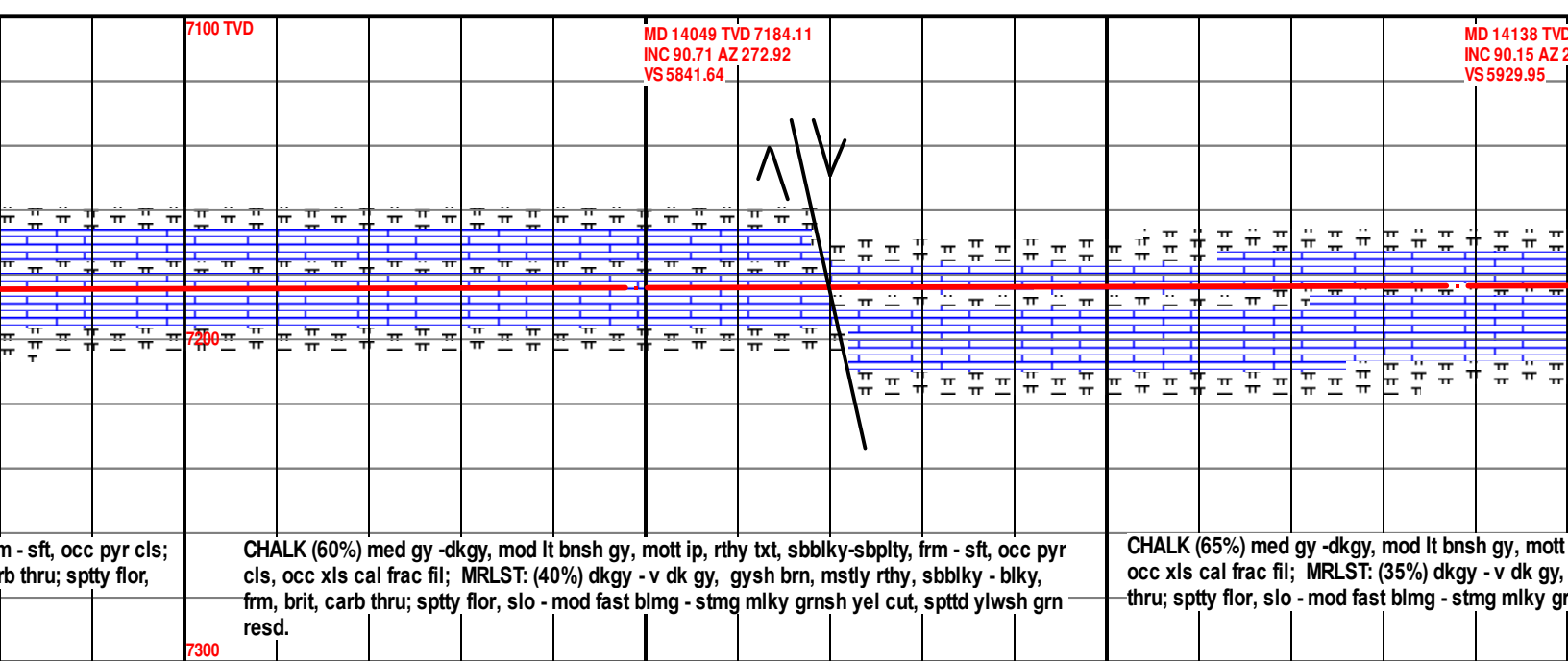


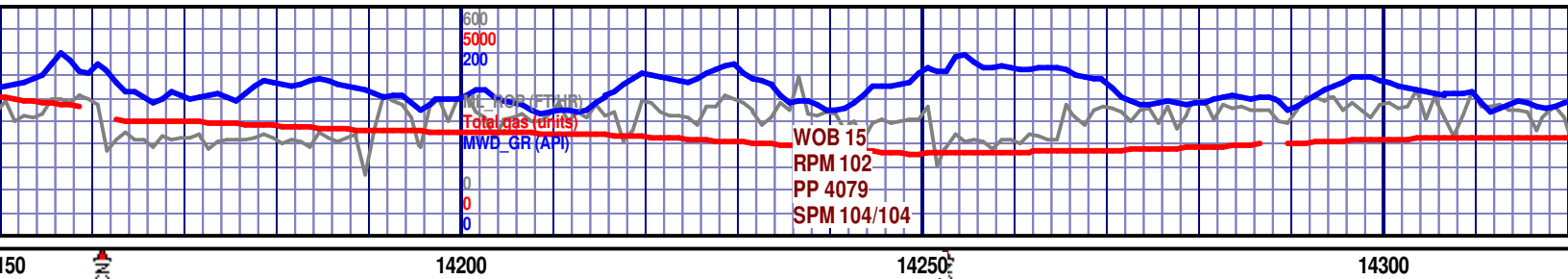


13850										 13900										13950									

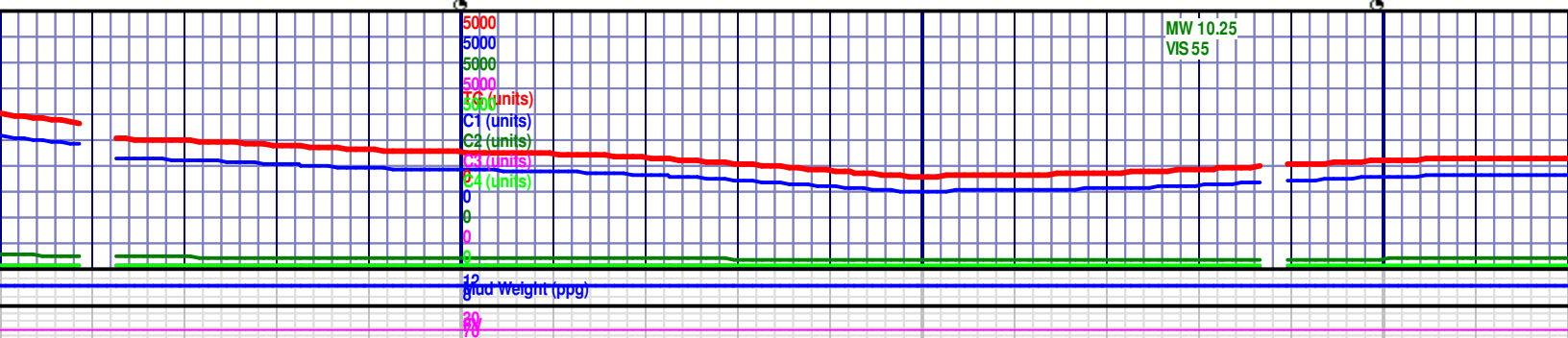


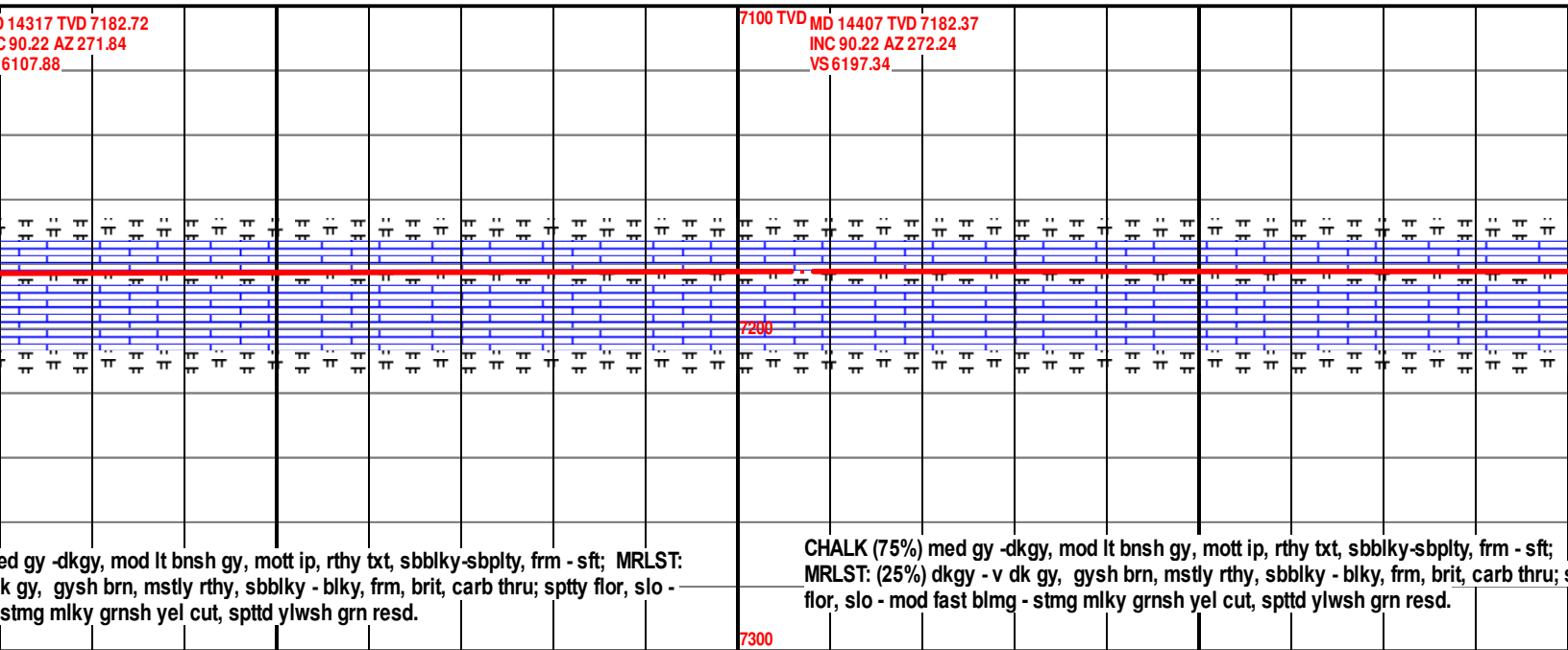
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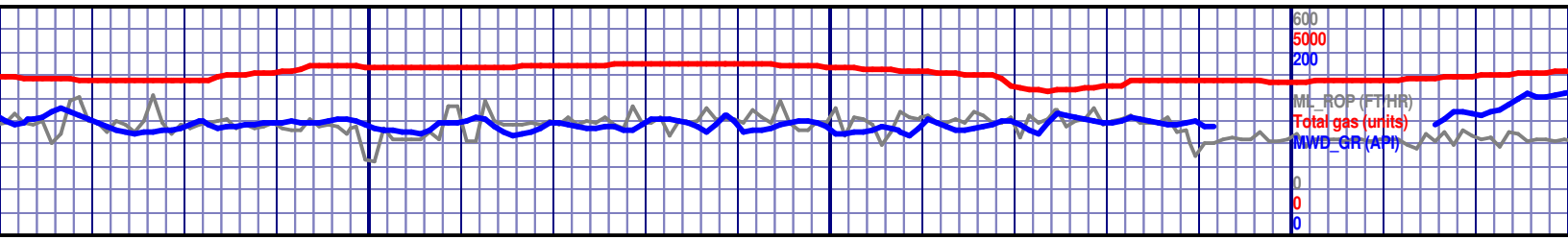




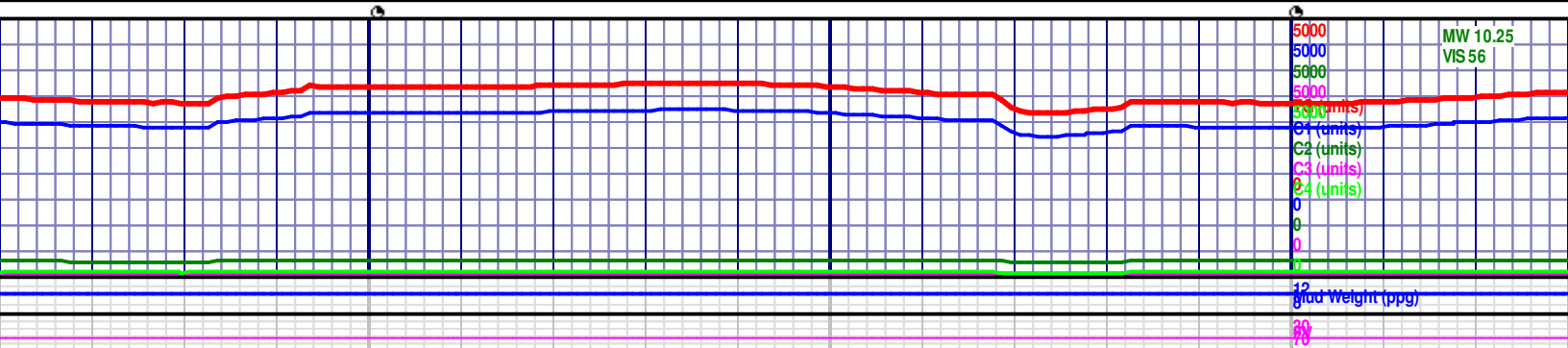
7183.44 272.8		7100 TVD	MD 14228 TVD 7183.1 INC 90.28 AZ 271.66 VS 6019.37		MD INC VS
<p>ip, rthy txt, sbblky-sbplty, frm - sft, occ pyr cls, gysh brn, mstly rthy, sbblky - blk, frm, brit, carb nsh yel cut, spttd ylwsh grn resd.</p> <p>CHALK (65%) med gy -dkgy, mod lt bnsh gy, mott ip, rthy txt, sbblky-sbplty, frm - sft; MRLST: (35%) dkgy - v dk gy, gysh brn, mstly rthy, sbblky - blk, frm, brit, carb thru; sptty flor, slo - mod fast blmg - stng mlky grnsh yel cut, spttd ylwsh grn resd.</p> <p>CHALK (75%) m (25%) dkgy - v d mod fast blmg -</p>					
7300					

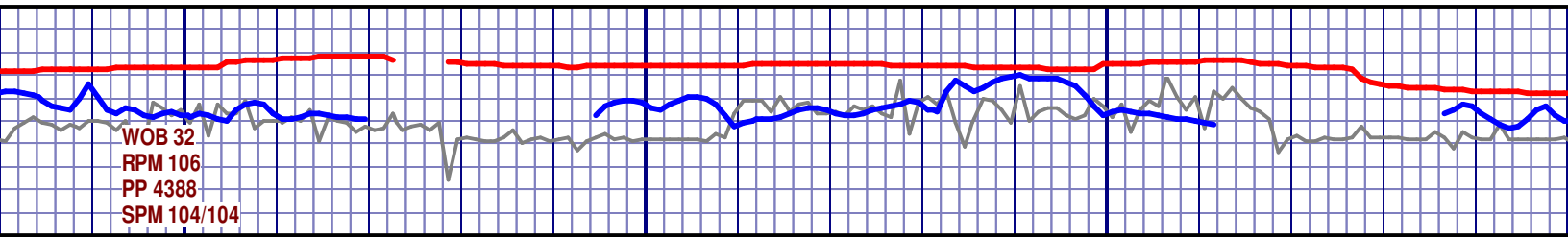






<p>MD 14675 TVD 7182.36 INC 90.03 AZ 272.04 VS 6463.66</p> <p>txt, sbblky-sbplty, frm - sft; MRLST: frm, brit, carb thru; sptty flor, slo - n resd.</p>	<p>MD 14765 TVD 7182.36 INC 89.97 AZ 274.75 VS 6552.84</p> <p>CHALK (85%) med gy -dkgy, mod lt bnsh gy, mott ip, rthy txt, sbblky-sbplty, frm - sft; MRLST: (15%) dkgy - v dk gy, gysh brn, mstly rthy, sbblky - blky, frm, brit, carb thru; sptty flor, slo - mod fast blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd.</p>	<p>MD 14765 TVD 7182.36 INC 89.97 AZ 274.75 VS 6552.84</p> <p>CHALK (85%) med gy -dkgy, mod lt bnsh gy, mott ip, rthy txt, sbblky-sbplty, frm - sft; MRLST: (15%) dkgy - v dk gy, gysh brn, mstly rthy, sbblky - blky, frm, brit, carb thru; sptty flor, slo - mod fast blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd.</p>	<p>7100 TVD</p> <p>CHALK (85%) med gy -dkgy, mod lt bnsh gy, mott ip, rthy txt, sbblky-sbplty, frm - sft; MRLST: occ xls cal frac fil; MRLST: carb thru; sptty flor, slo - n</p>
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14850

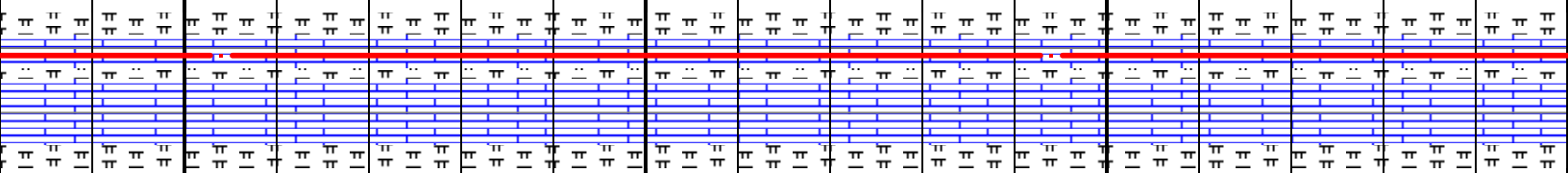
14900

14950

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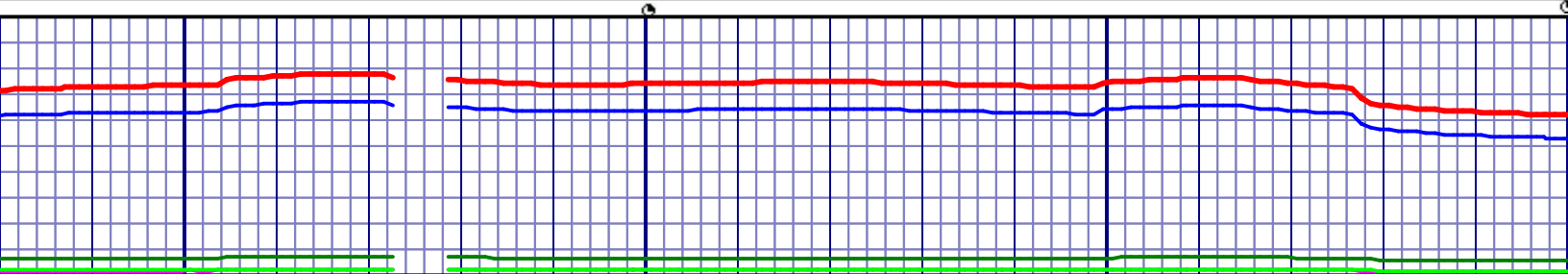
MD 14854 TVD 7182.43
INC 89.94 AZ 275.86
VS 6640.61

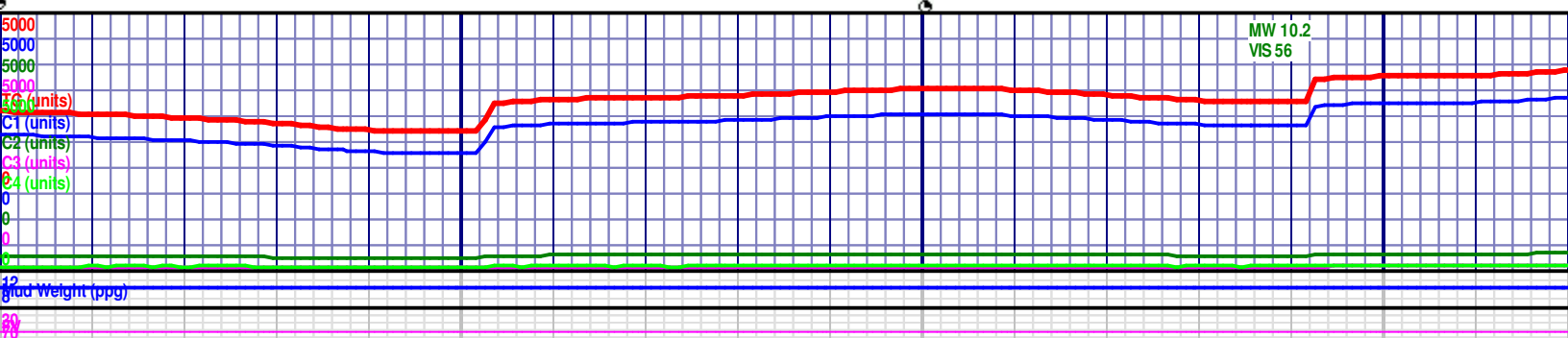
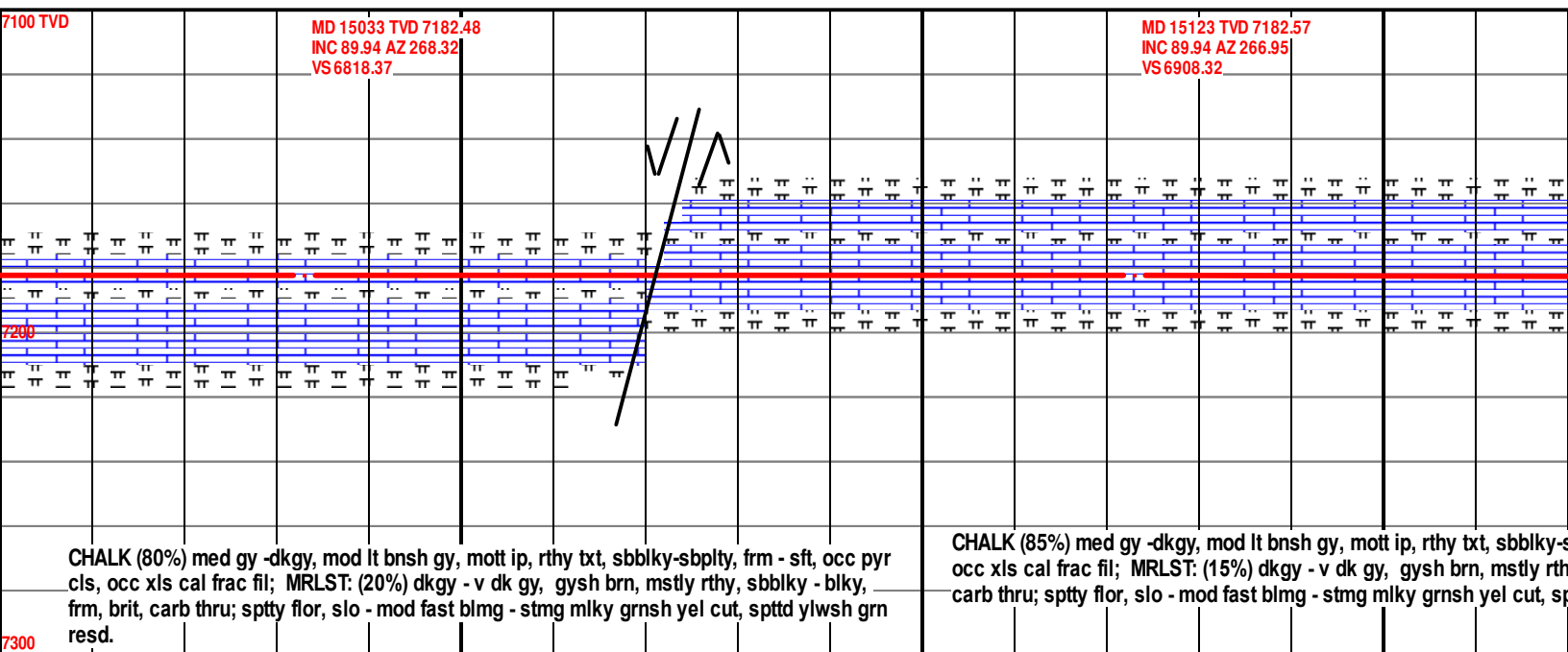
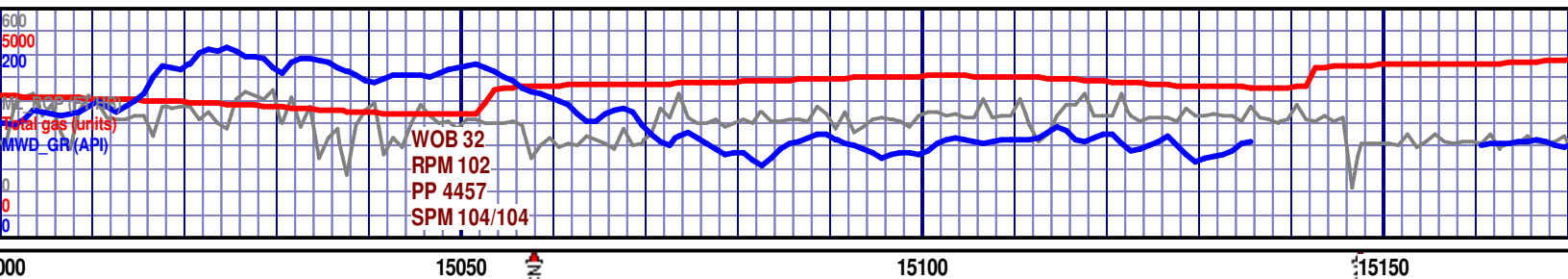
MD 14944 TVD 7182.46
INC 90.03 AZ 272.12
VS 6729.66

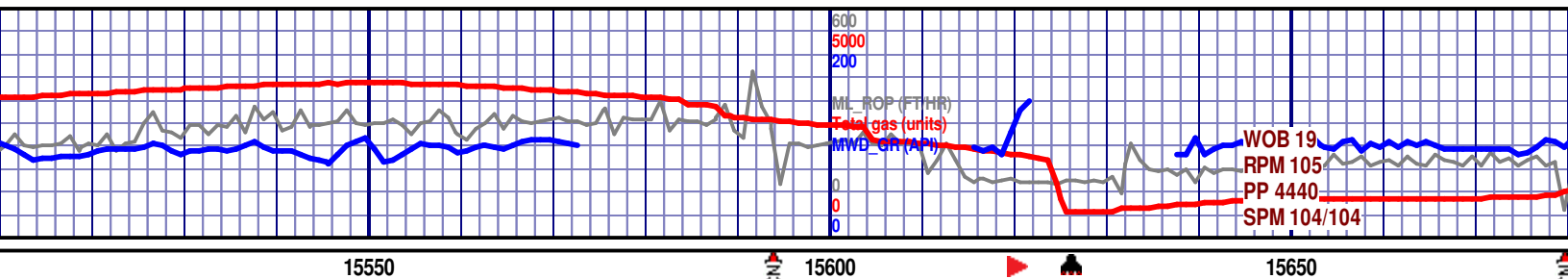


gy, mod lt bnsh gy, mott ip, rthy txt, sbblky-sbplty, frm - sft, occ pyr cls,
: (15%) dkgy - v dk gy, gysh brn, mstly rthy, sbblky - blk, frm, brit,
mod fast blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd.

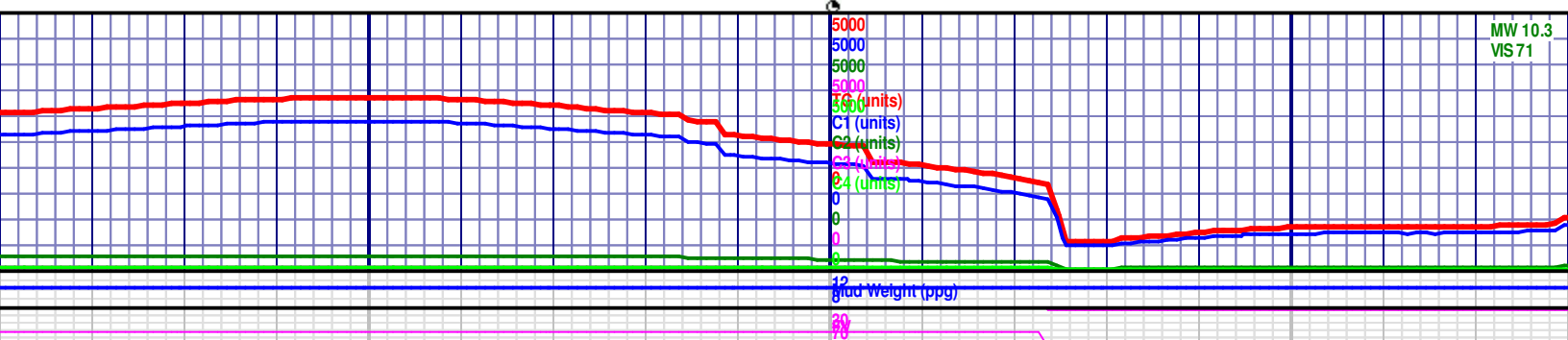
CHALK (80%) med gy -dkgy, mod lt bnsh gy, mott ip, rthy txt, sbblky-sbplty, frm - sft, occ pyr cls,
occ xls cal frac fil; MRLST: (20%) dkgy - v dk gy, gysh brn, mstly rthy, sbblky - blk, frm, brit,
carb thru; spty flr, slo - mod fast blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd.

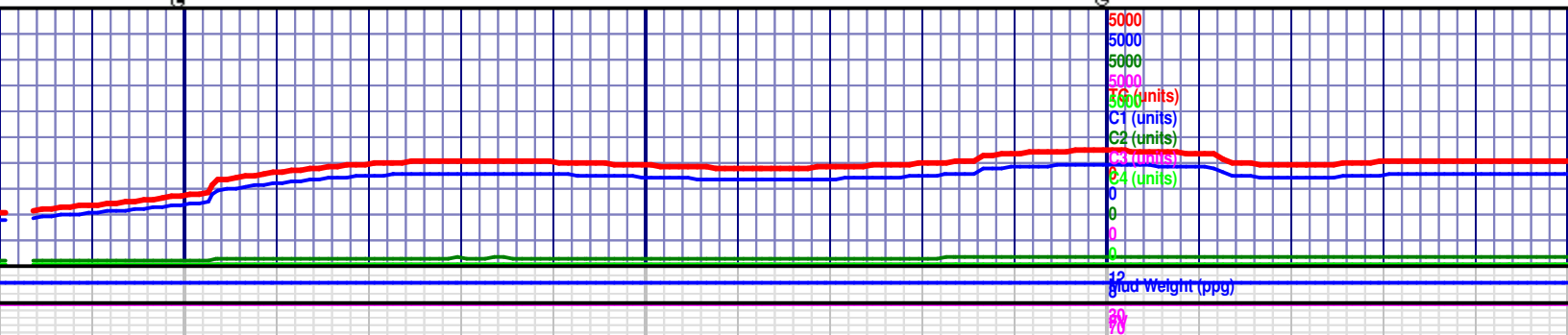
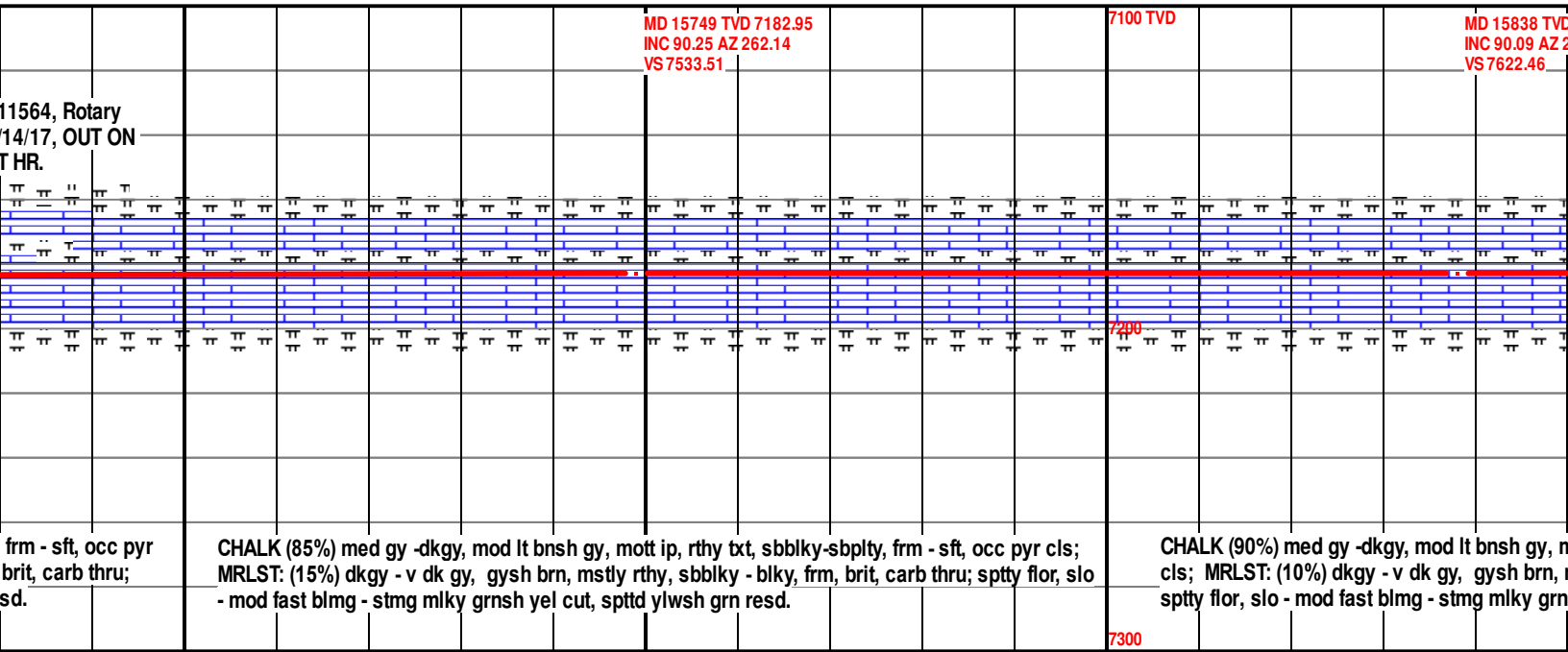
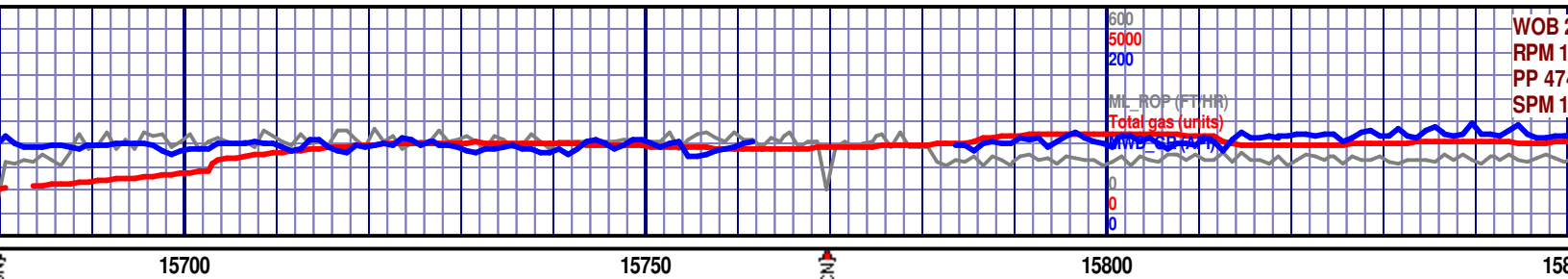


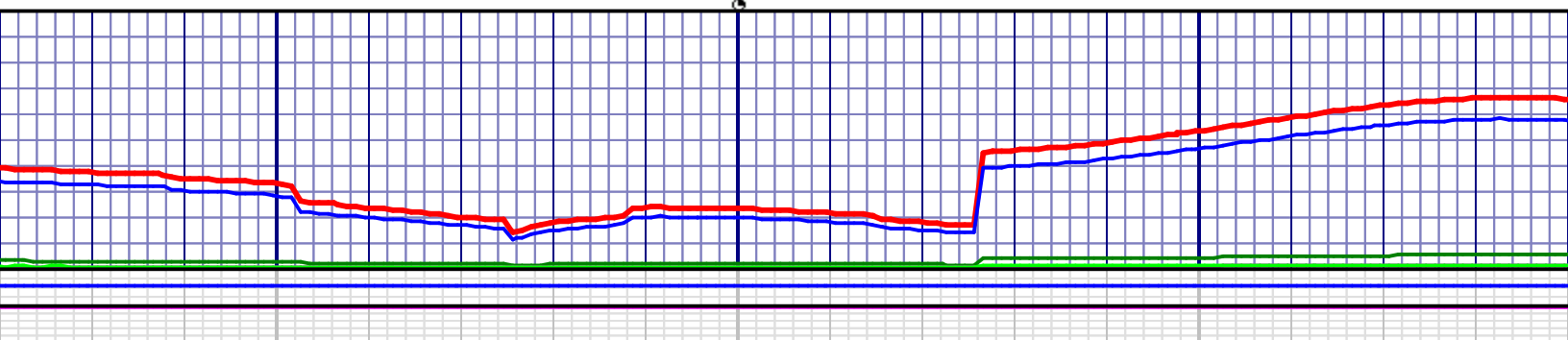
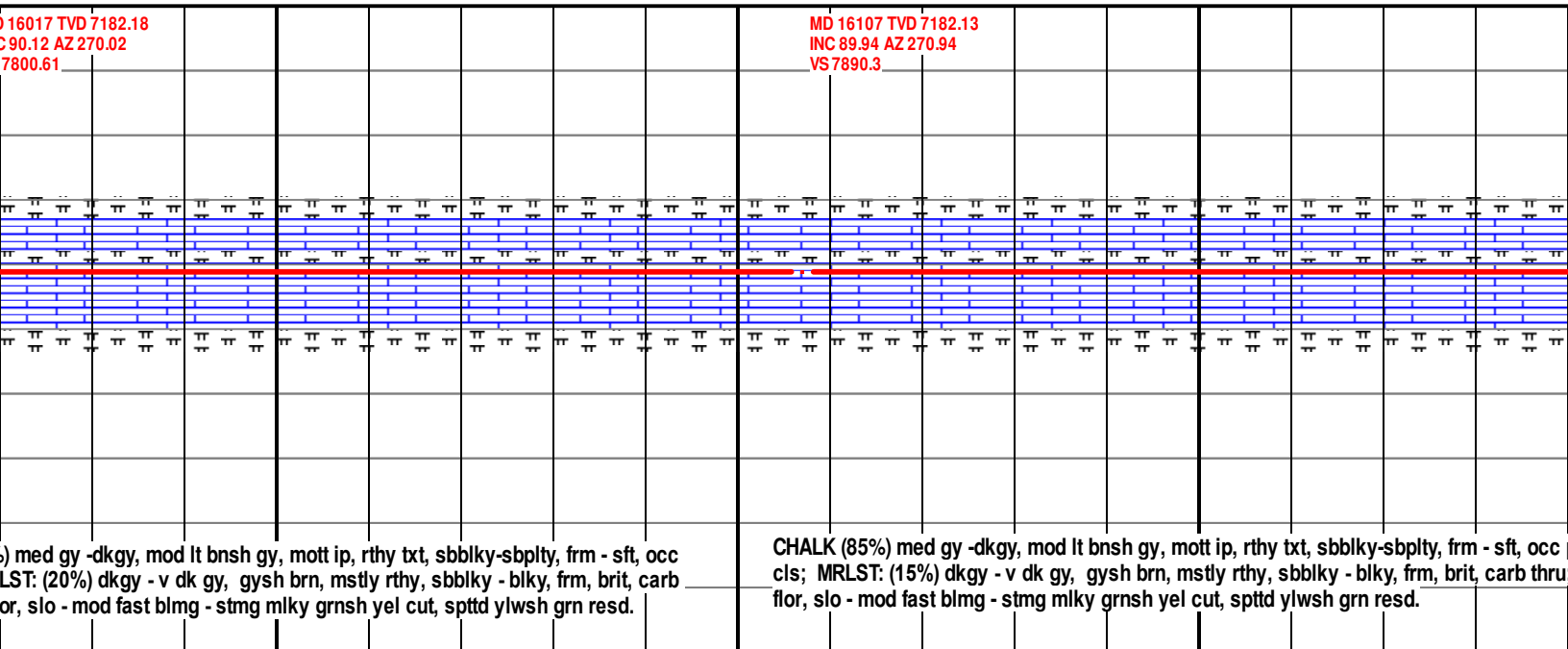
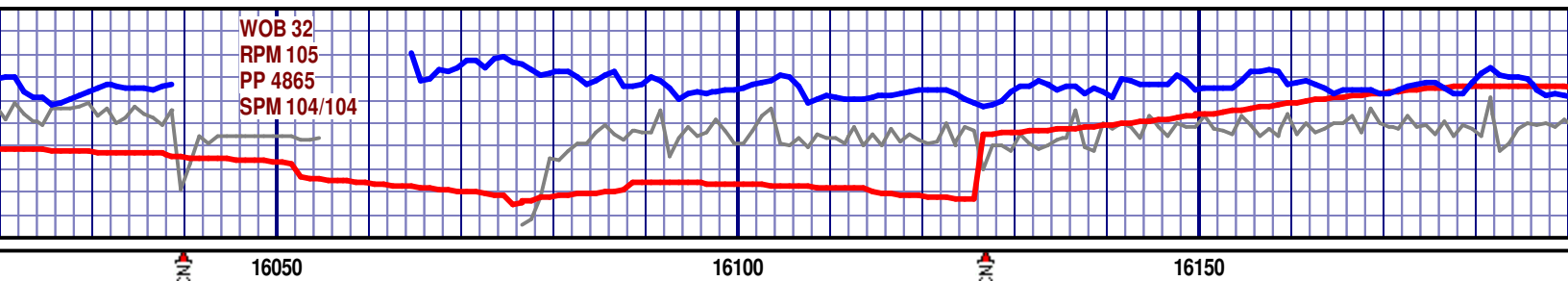


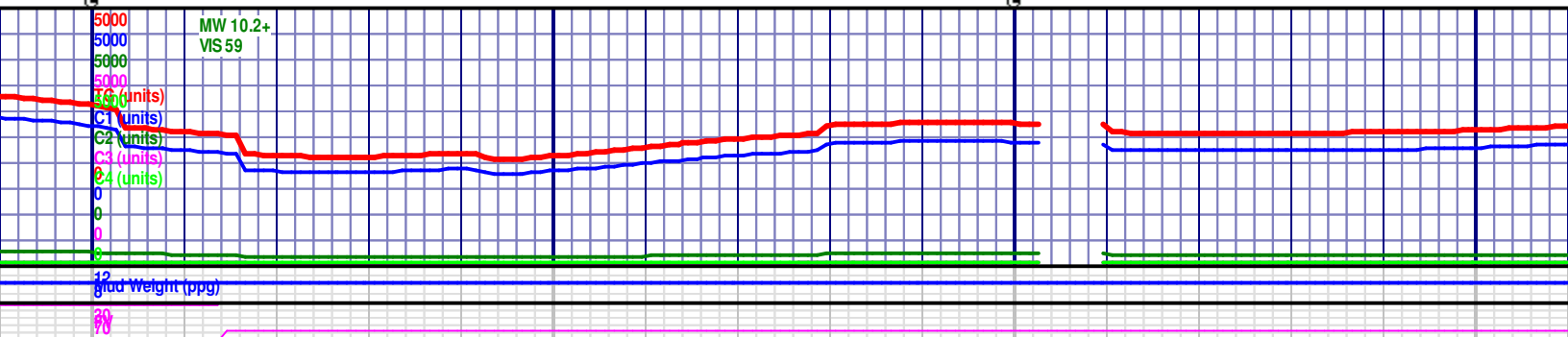
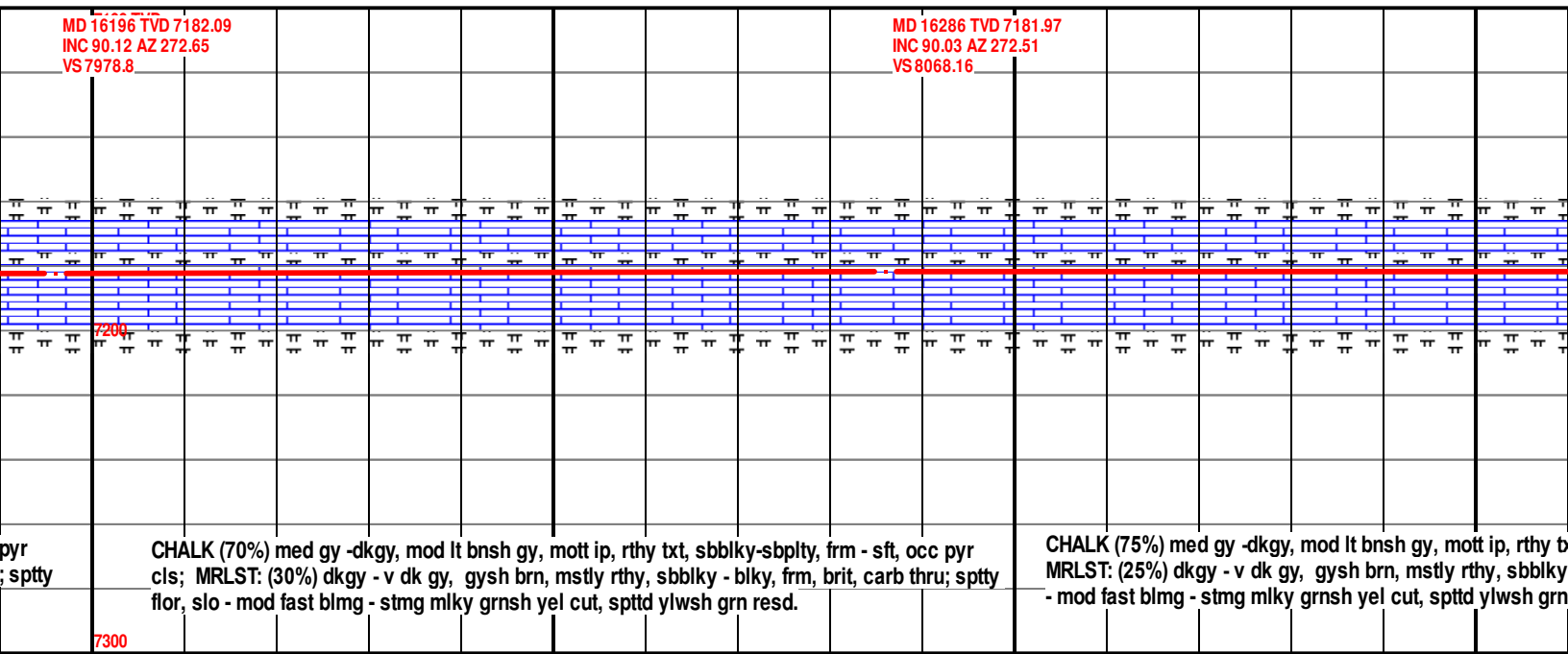
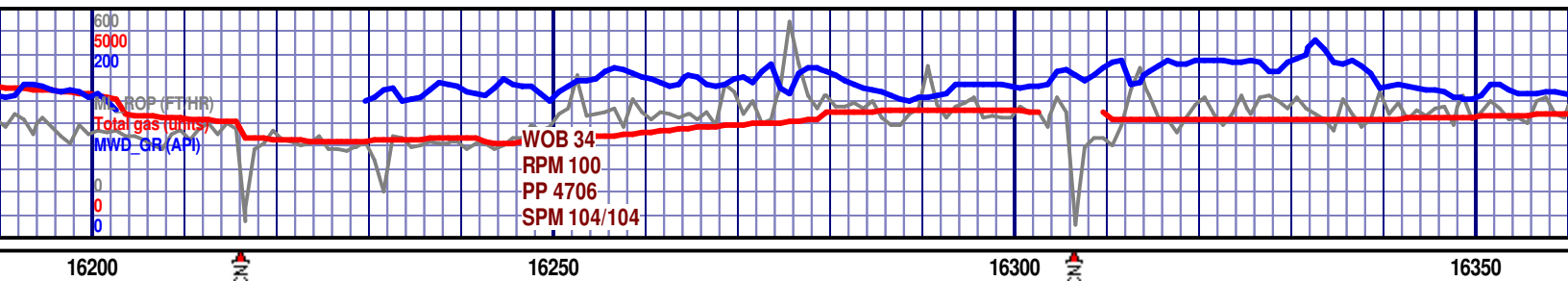


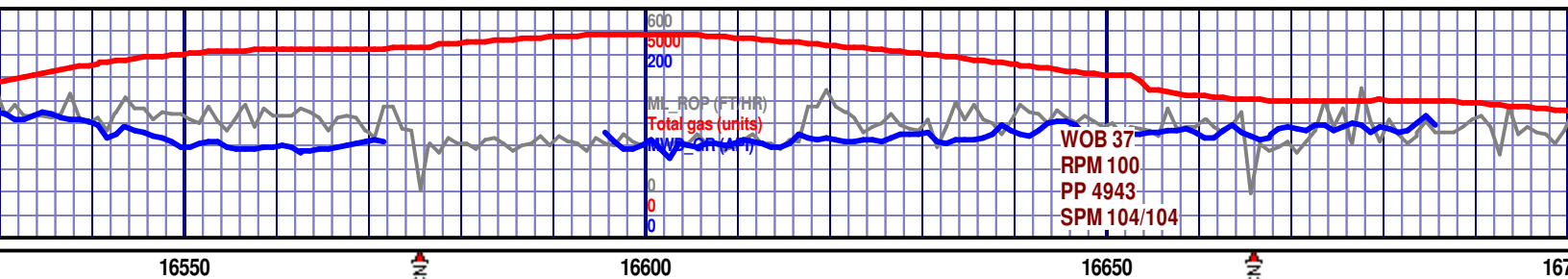
MD 15570 TVD 7183.12 INC 89.6 AZ 263.31 VS 7354.84									
7100 TVD									
TOOH at 15,624' MD for BHA									
MD 15659 TVD 7183.29 INC 90.18 AZ 261.82 VS 7443.7									
BIT #2, 8.5", HCC, AT505F, Jets 5x15s, SN#: 7163674, Rotary Steerable Directional BHA, IN @ 1820', ON 11/10/17, OUT ON 11/13/17 @ 15624' MD, DRILLED 13804' IN 60.25 BIT HR.									
BIT #3, 8.5", HCC, AT505X, Jets 5x15s, SN#: 79 Steerable Directional BHA, IN @ 15624', ON 11/11/15/17 @ 16716' MD, DRILLED 1092' IN 9.6 BI									
ALK (85%) med gy -dkgy, mod lt bnsh gy, mott ip, rthy txt, sbblky-sbplty, frm - sft, occ pyr; MRLST: (15%) dkgy - v dk gy, gysh brn, mstly rthy, sbblky - blkly, frm, brit, carb thru; ty flor, slo - mod fast blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd.									
CHALK (85%) med gy -dkgy, mod lt bnsh gy, mott ip, rthy txt, sbblky-sbplty, clis; MRLST: (15%) dkgy - v dk gy, gysh brn, mstly rthy, sbblky - blkly, frm, sptty flor, slo - mod fast blmg - stmg mlky grnsh yel cut, spttd ylwsh grn re									
7300									



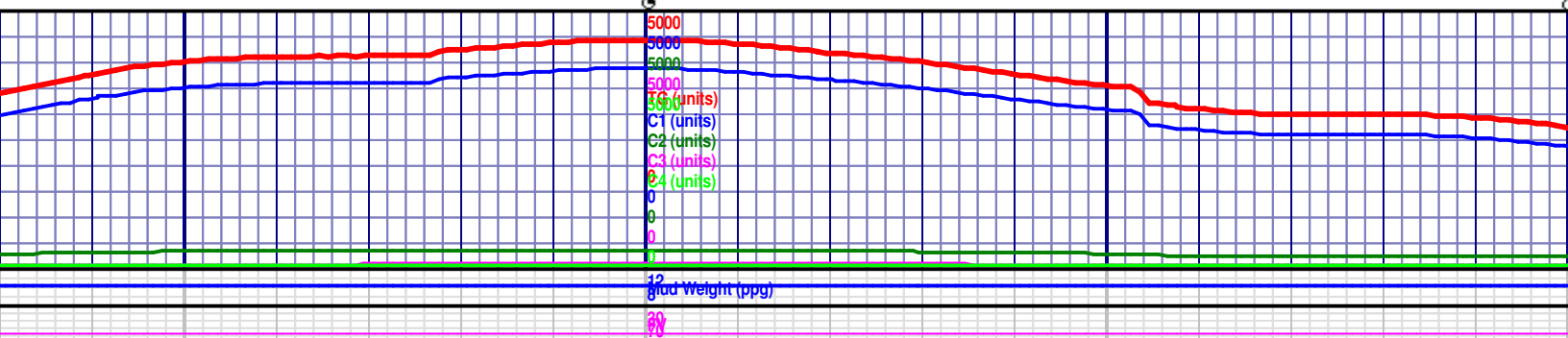


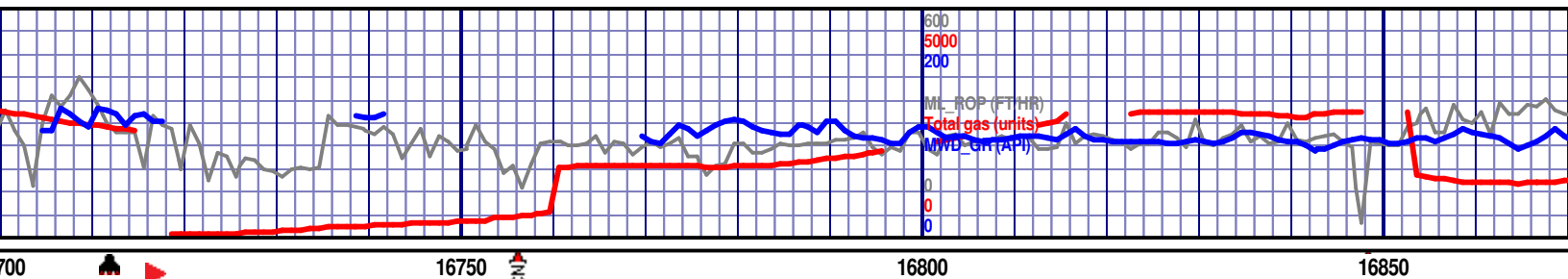




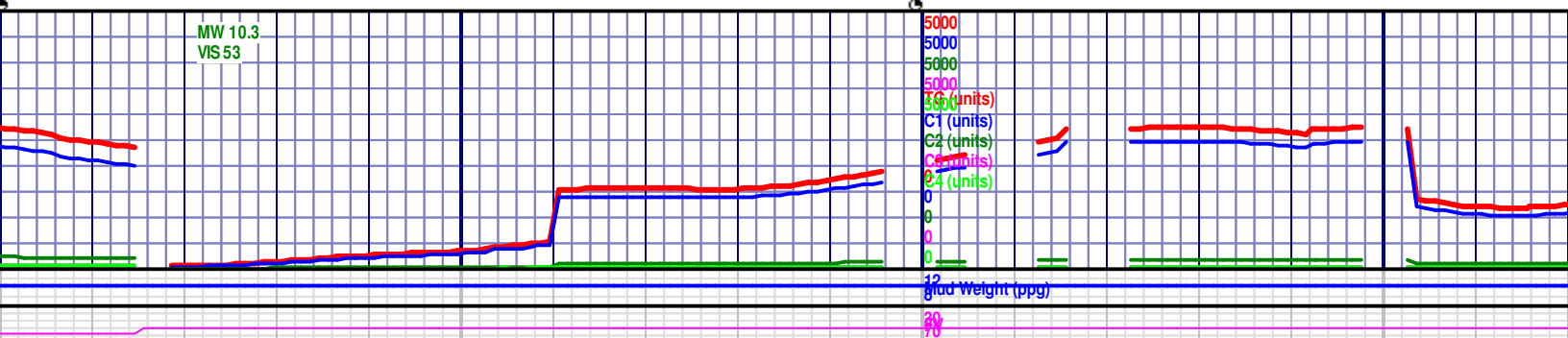


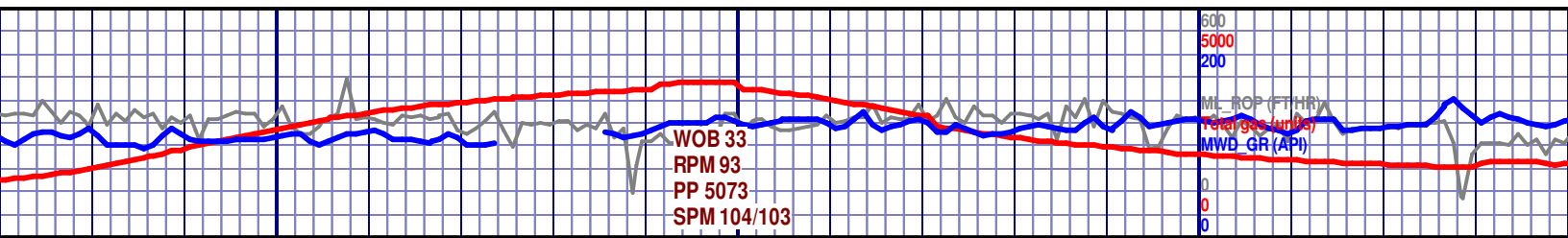
<p>MD 16554 TVD 7181.64 INC 90.09 AZ 273.77 VS 8333.85</p>	<p>7100 TVD</p>	<p>MD 16644 TVD 7181.5 INC 90.09 AZ 272.57 VS 8423.09</p> <p>BIT #3, 8.5", HCC, AT505X, Jets 5x15s, SN#: 7911564, Rota Directional BHA, IN @ 15624', ON 11/14/17, OUT ON 11/15/ DRILLED 1092' IN 9.6 BIT HR.</p>
<p>mod lt bnsh gy, mott ip, rthy txt, sbblky-sbplty, frm - sft, occ pyr dk gy, gysh brn, mstly rthy, sbblky - blky, frm, brit, carb thru; g - stmg mlky grnsh yel cut, spttd ylwsh grn resd.</p>	<p>7290</p>	<p>CHALK (80%) med gy -dkgy, mod lt bnsh gy, mott ip, rthy txt, sbblky-sbplty, frm - sft, occ pyr cls; MRLST: (20%) dkgy - v dk gy, gysh brn, mstly rthy, sbblky - blky, frm, brit, carb thru; sptty flor, slo - mod fast blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd.</p>
<p>7300</p>		



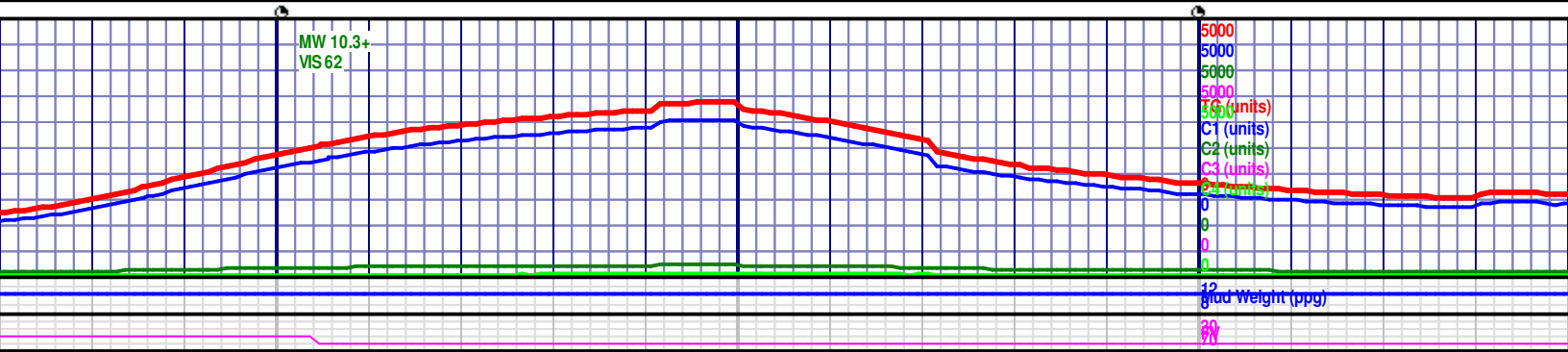
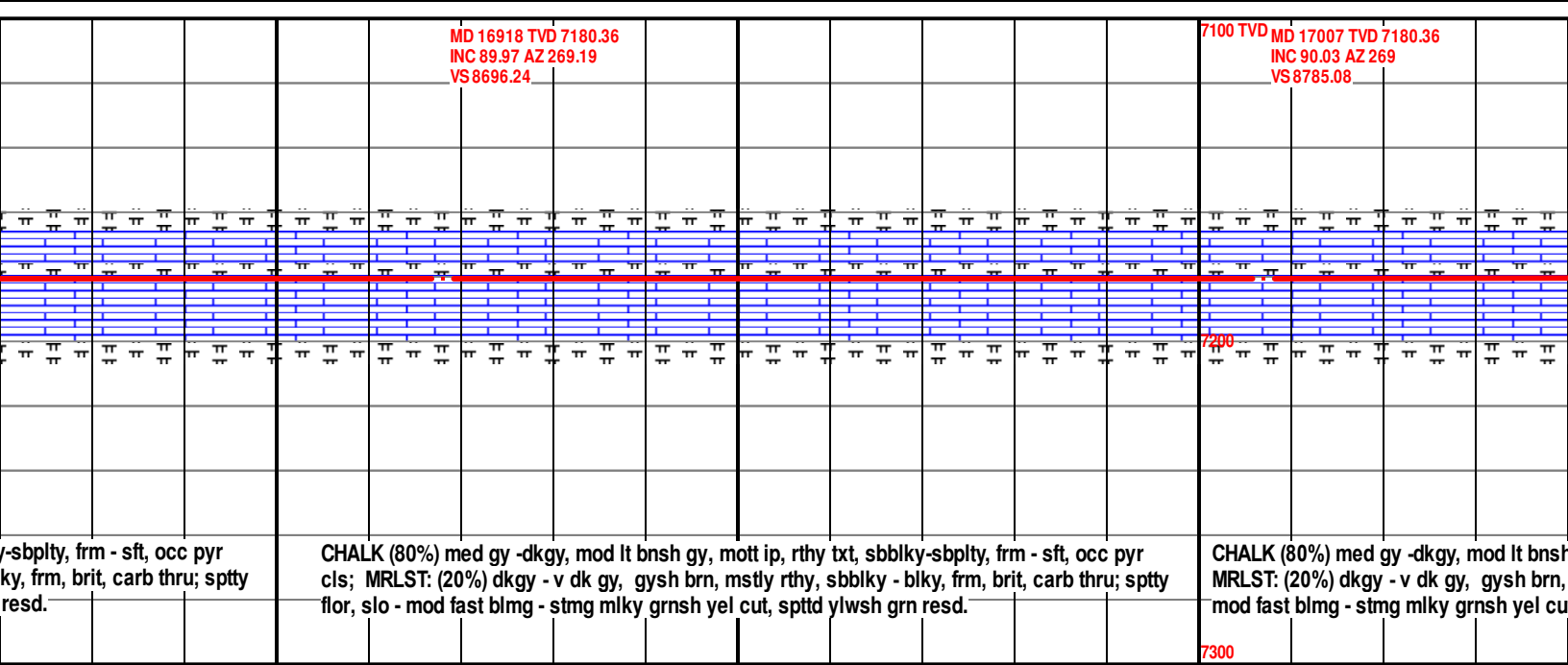


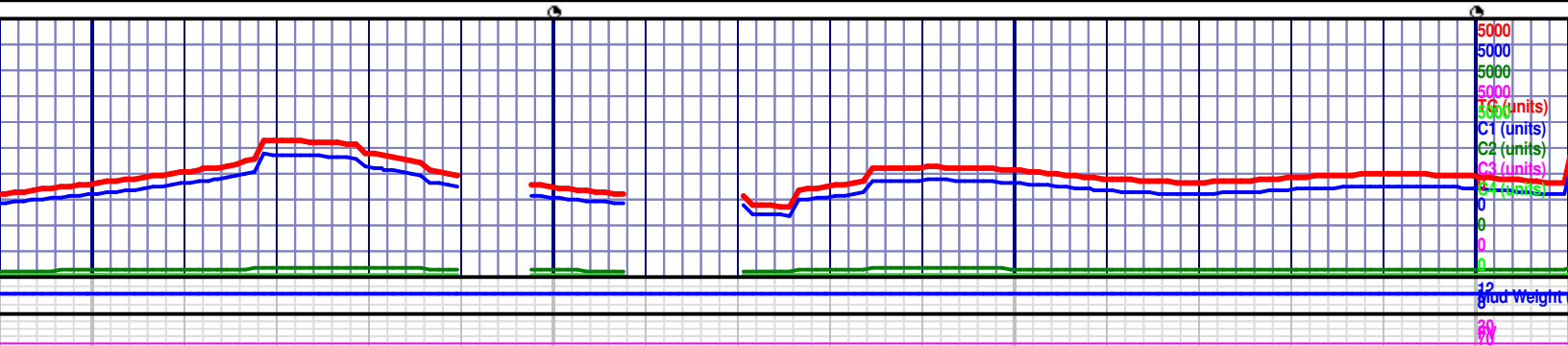
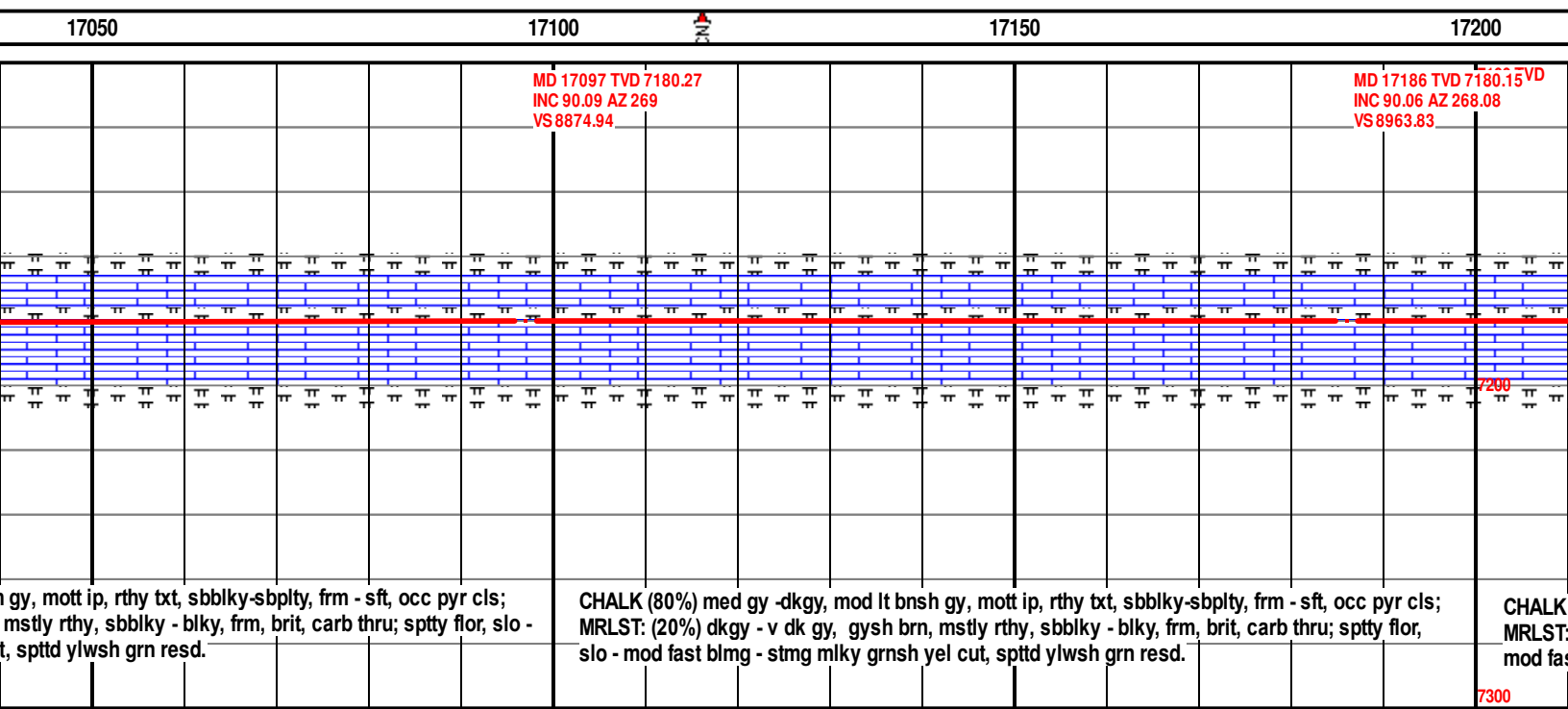
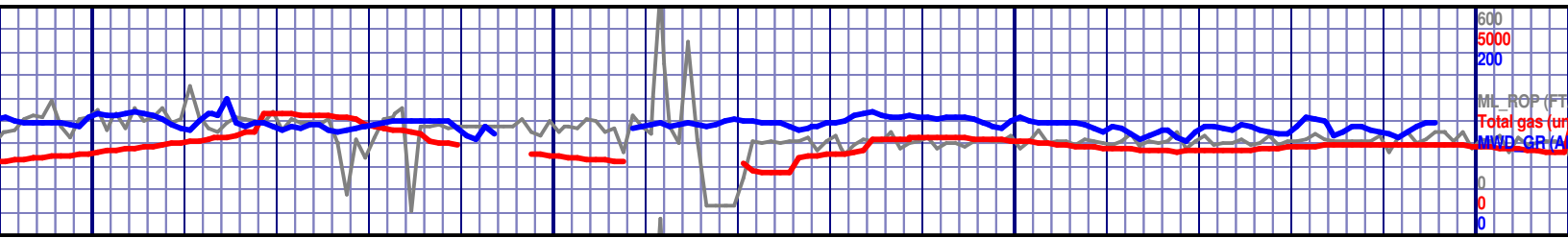
TOOH at 16,716' MD for MWD Tool.	MD 16739 TVD 7180.94 INC 90.59 AZ 270.24 VS 8517.62	7100 TVD	MD 16828 TVD 7180.41 INC 90.09 AZ 269.22 VS 8606.4
Rotary Steerable 17 @ 16716' MD,	RR BIT #3, 8.5", HCC, AT505X, Jets 5x15s, SN#: 7911564, Rotary Steerable Directional BHA, IN @ 16716', ON 11/15/17, OUT ON 11/16/17 @ 18994' MD, DRILLED 2278' IN 10.4 BIT HR.		
	CHALK (80%) med gy -dkgy, mod lt bnsh gy, mott ip, rthy txt, sbbky-sbply, frm - sft, occ pyr cls; MRLST: (20%) dkgy - v dk gy, gysh brn, mstly rthy, sbbky - blk, frm, brit, carb thru; spty flr, slo - mod fast blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd.		
		7200	
			CHALK (80%) med gy -dkgy, mod lt bnsh gy, mott ip, rthy txt, sbbky cls; MRLST: (20%) dkgy - v dk gy, gysh brn, mstly rthy, sbbky - blk, flr, slo - mod fast blmg - stmg mlky grnsh yel cut, spttd ylwsh grn
		7300	

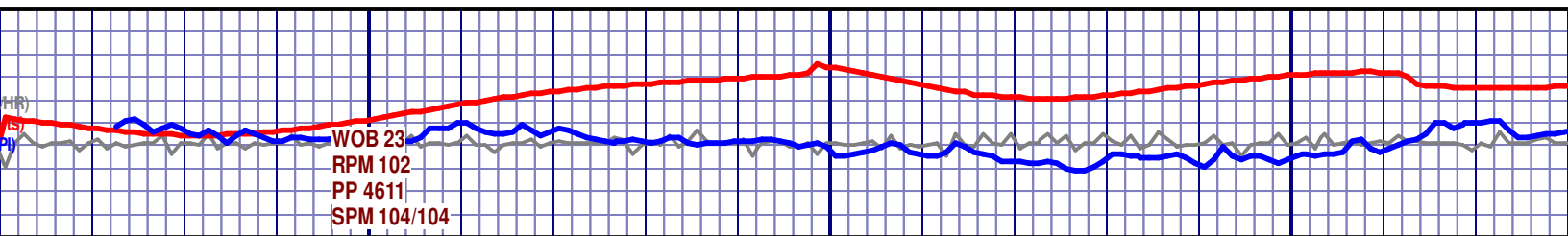




16900 16950 17000



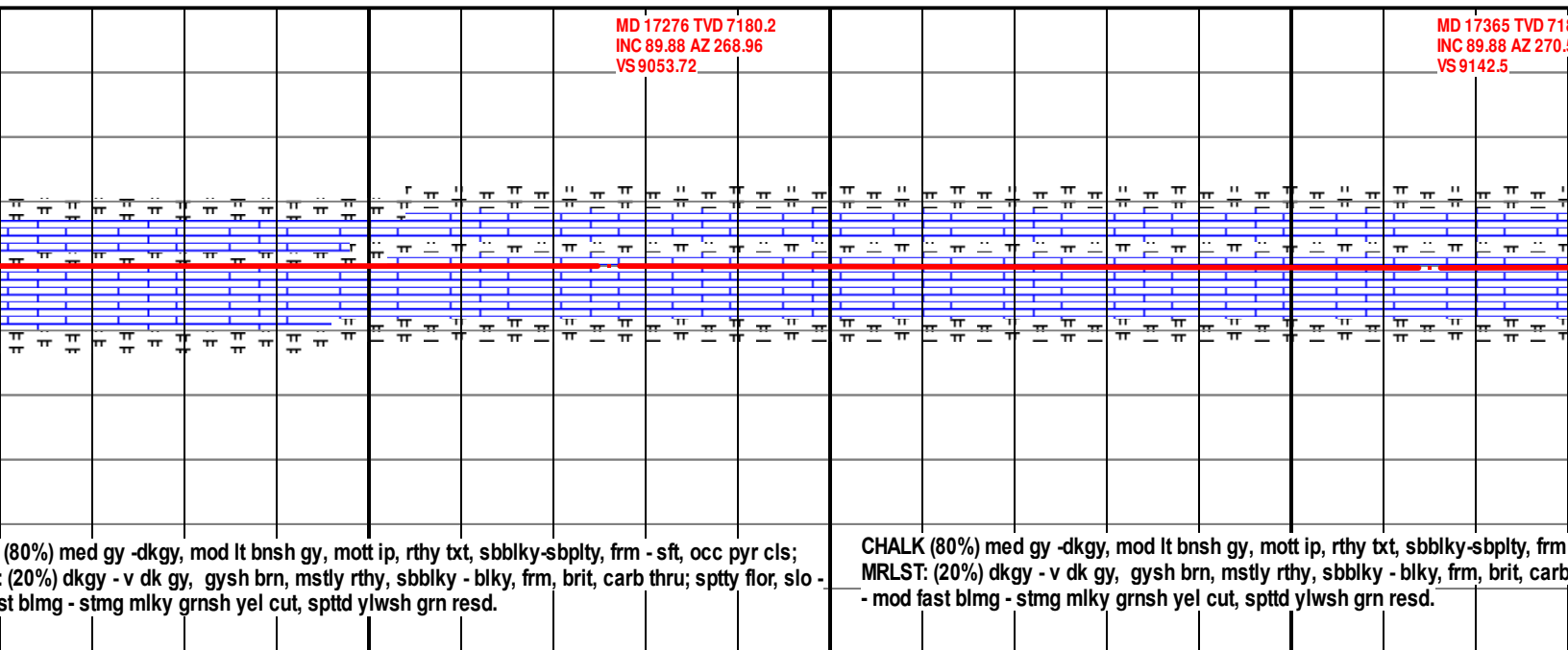




17250

17300

17350

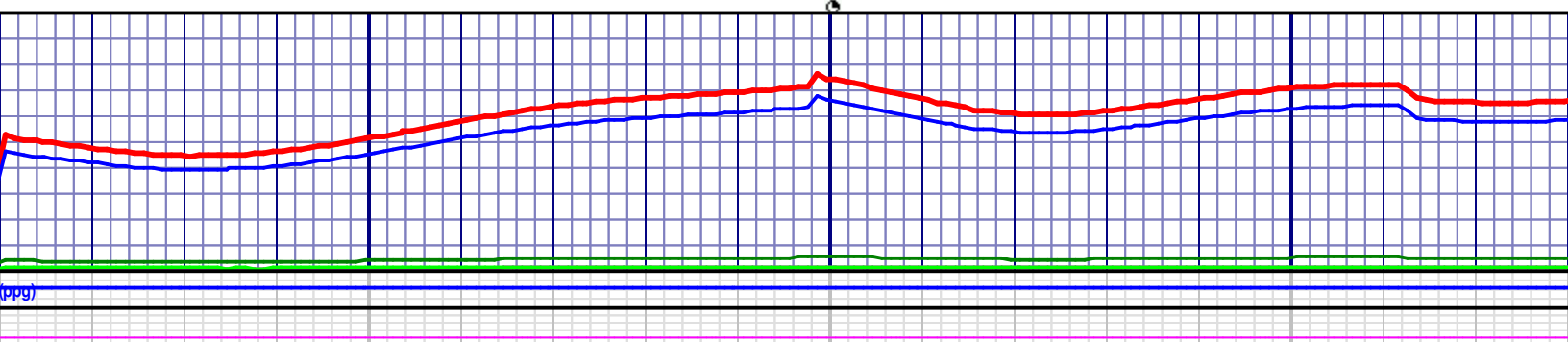


MD 17276 TVD 7180.2
INC 89.88 AZ 268.96
VS 9053.72

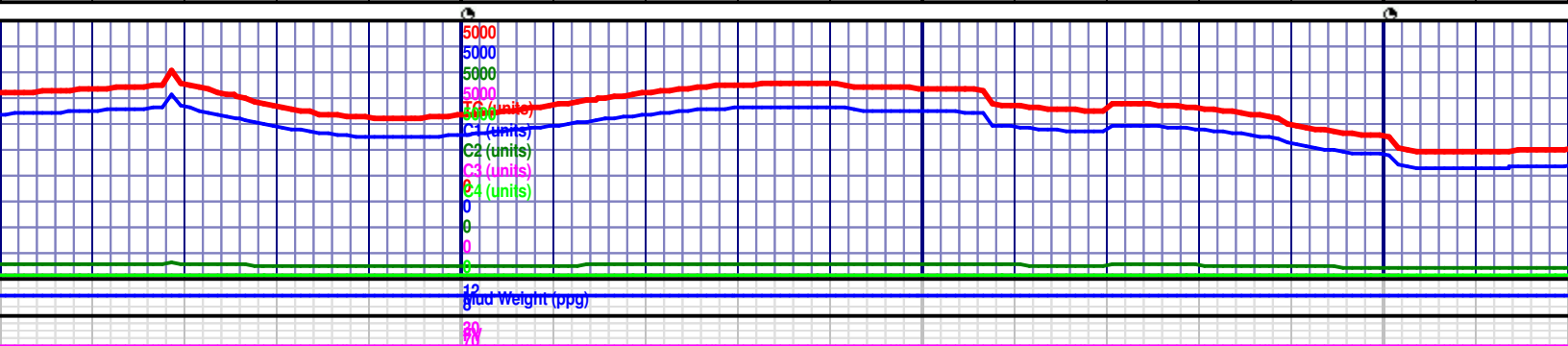
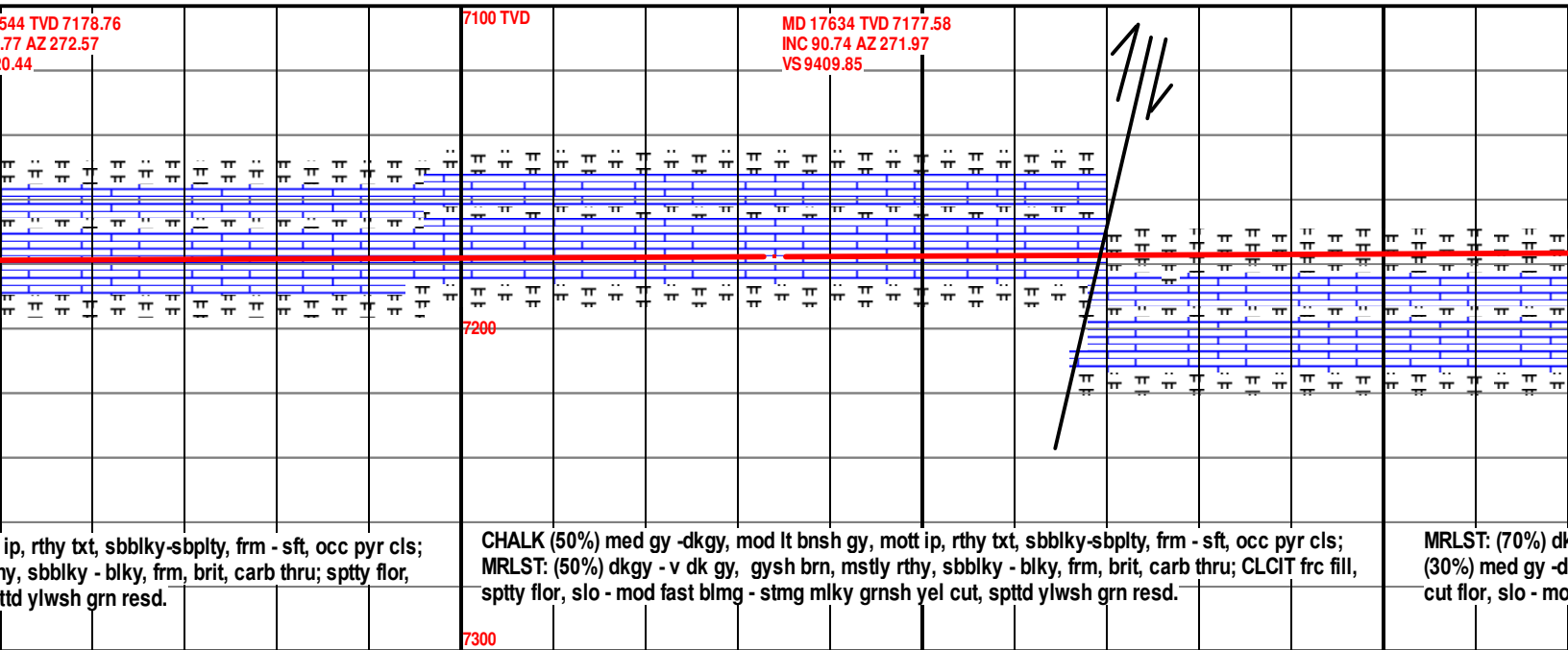
MD 17365 TVD 7180.2
INC 89.88 AZ 270.0
VS 9142.5

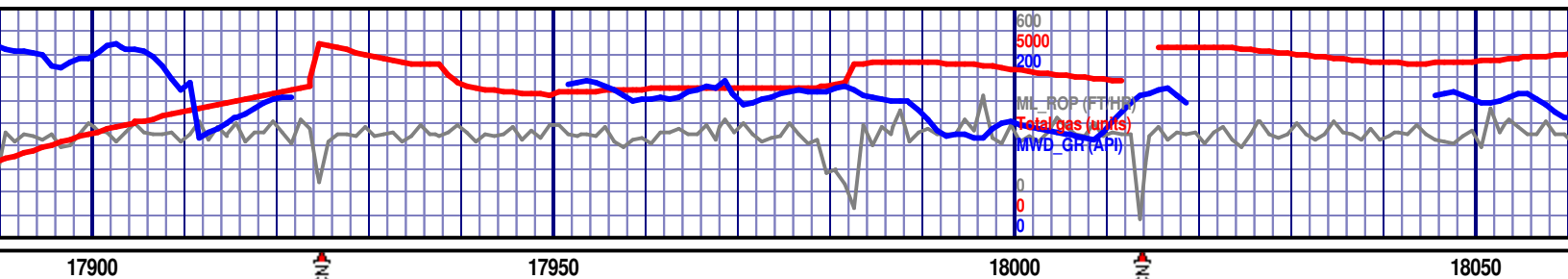
(80%) med gy -dkgy, mod lt bnsh gy, mott ip, rthy txt, sbblky-sbplty, frm - sft, occ pyr cls;
(20%) dkgy - v dk gy, gysh brn, mstly rthy, sbblky - blky, frm, brit, carb thru; sptty flr, slo -
st blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd.

CHALK (80%) med gy -dkgy, mod lt bnsh gy, mott ip, rthy txt, sbblky-sbplty, frm
MRLST: (20%) dkgy - v dk gy, gysh brn, mstly rthy, sbblky - blky, frm, brit, carb
- mod fast blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd.

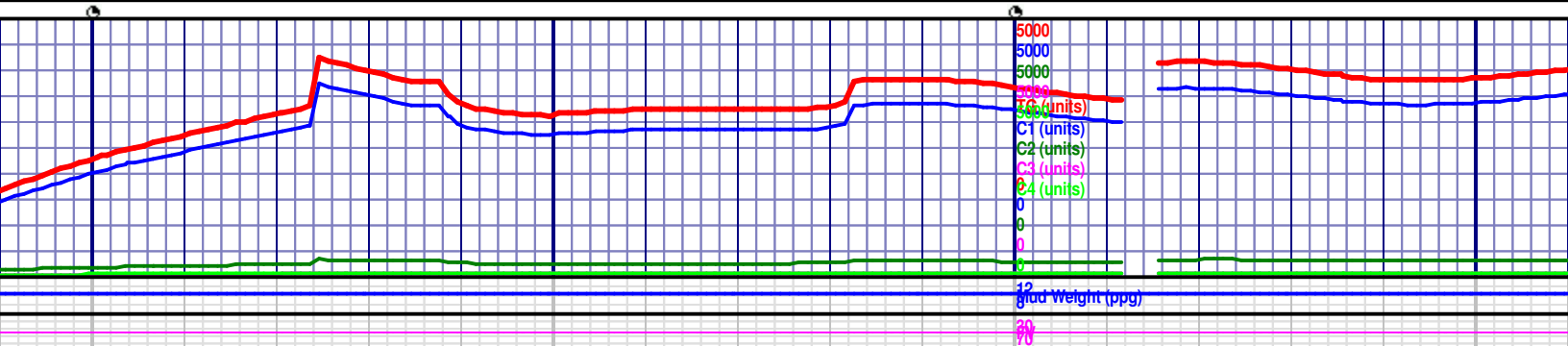


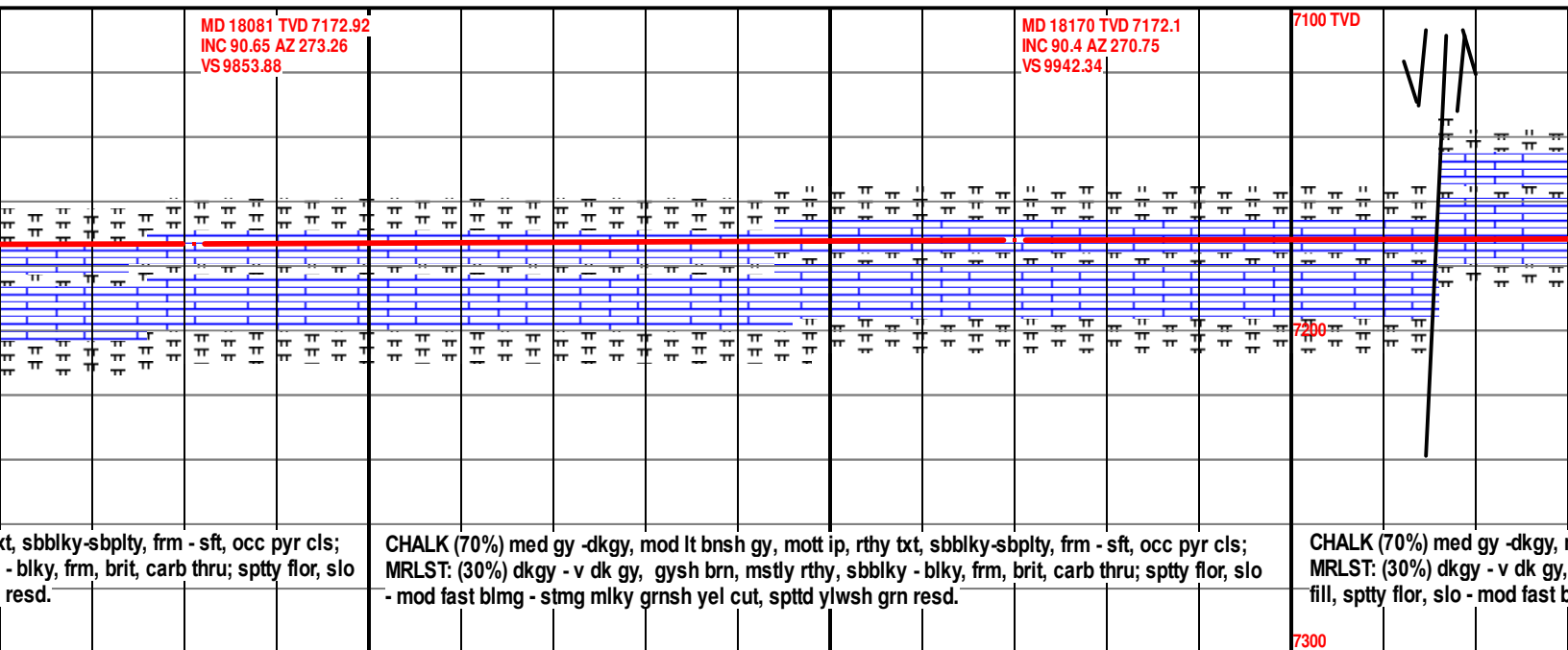
(ppg)

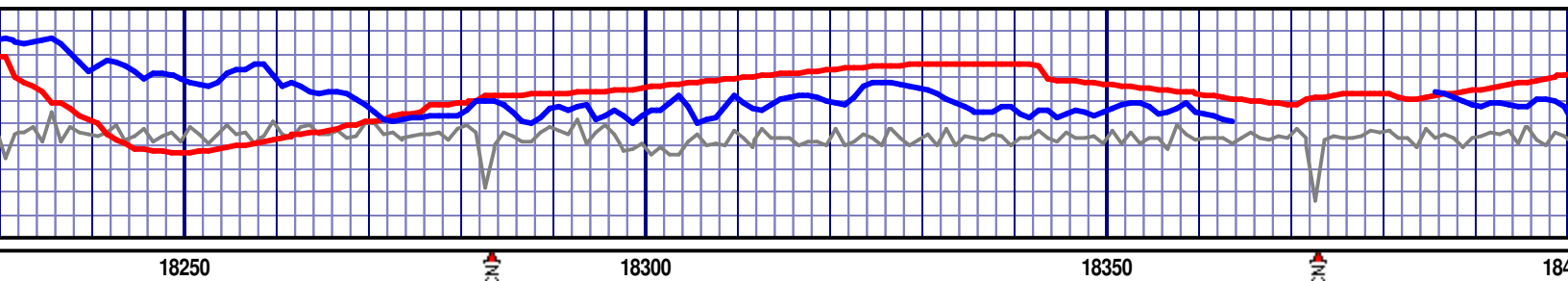




	<p>MD 17902 TVD 7174.4 INC 90.74 AZ 271.91 VS 9676.35</p>	<p>MD 17991 TVD 7173.63 INC 90.25 AZ 273.49 VS 9764.68</p>
<p>0%) or, slo -</p>	<p>MRLST: (60%) dkgy - v dk gy, mstly rthy, sbblky - blkly, frm-brit - m hd, carb thru; CHALK (40%) med gy -dkgy, gysh brn, mott ip, rthy txt, sbblky-sbply, frm - sft, PYR clstr, sppty dry cut flor, slo - mod fast blmg - stmg mlky grnsh yel cut, spptd ylwsh grn resd.</p>	<p>CHALK (60%) med gy -dkgy, mod lt bnsh gy, mott ip, rthy b MRLST: (40%) dkgy - v dk gy, gysh brn, mstly rthy, sbblky - mod fast blmg - stmg mlky grnsh yel cut, spptd ylwsh grn</p>







	<p>MD 18260 TVD 7171.38 INC 90.52 AZ 269.35 VS 10032.08</p>		<p>MD 18350 TVD 7170.64 INC 90.43 AZ 269.14 VS 10121.91</p>
<p>mod lt bnsh gy, mott ip, rthy txt, sbblky-sbplty, frm - sft, occ pyr cls; gysh brn, mstly rthy, sbblky - blk, frm, brit, carb thru; CLCIT frc blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd.</p>		<p>CHALK (60%) med gy -dkgy, mod lt bnsh gy, mott ip, rthy txt, sbblky-sbplty, frm - sft, occ pyr cls; MRLST: (40%) dkgy - v dk gy, gysh brn, mstly rthy, sbblky - blk, frm, brit, carb thru; CLCIT frc fill, sptty flor, slo - mod fast blmg - stmg mlky grnsh yel cut, spttd ylwsh grn resd.</p>	

