



Weatherford®

Surface Logging Systems

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

884 Implement Dr.
Dickinson, ND 58601
701-227-4408

2122 Melodi Ln.
Po Box 435
Casper, WY 82601
307-265-2124

Well Name: WAAG 11
API: 05-123-40360-00
Location: Sec. 19, T7N-R65W Weld County, Colorado
License Number: AFE: 14-172
Spud Date: 6/10/15
Surface Coordinates: Northing: 1448304.24' ; Easting: 3220341.42'
Region: Wattenburg
Drilling Completed: 7/21/2015
Bottom Hole Coordinates: From projection to bit survey: 361.69' N, 4658.66' W from surface hole location
Ground Elevation (ft): 4885' K.B. Elevation (ft): 4909'
Logged Interval (ft): 4000' To: 11,960' Total Depth (ft): 11,960'
Formation: Niobrara B Chalk
Type of Drilling Fluid: Water Based

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

OPERATOR

Company: Extraction Oil & Gas
Address: 1888 Sherman Street, Suite 200
Denver, CO 80203

GEOLOGIST

Name: Jennifer Anderson & Douglas Bower
Company: Weatherford, Surface Logging Systems
Address: 2122 Melodi Lane
Casper, WY 82601
307-265-2124

Supervision:

Project Geologist: Vivian Spiess

Company Representatives: Jose Torres and Hugh McGraw

Personel:

Contractor: Helmerich & Payne Rig 319

Contractor Representatives:

Directional Services: Phoenix Technology Services


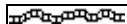
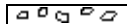

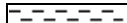
Directional Drillers:






MWD/LWD: Seth Theriot & Damon Decker



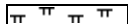
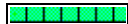

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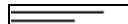



Hotwire Calibrated 1% Methane=100u=1000ppm.

ROCK TYPES

 **Anhy**
 **Bent**
 **Brec**
 **Cht**
 **Clyst**

 **Coal**
 **Congl**
 **Dol**
 **Gyp**
 **Igne**

 **Lmst**
 **Meta**
 **Mrlst**
 **Salt**
 **Shale**

 **Shcol**
 **Shgy**
 **Sltst**
 **Ss**
 **Till**

ACCESSORIES

MINERAL

	Anhy
	Arggrn
	Arg
	Bent
	Bit
	Brecfrag
	Calc
	Carb
	Chtdk
	Chtlt
	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

	Anhy
	Arg
	Bent
	Coal
	Dol

	Gyp
	Ls
	Mrst
	Sltstrg
	Ssstrg

TEXTURE

	Boundst
	Chalky
	Cryxln
	Earthy
	Finexln
	Grainst
	Lithogr
	Microxln
	Mudst
	Packst
	Wackest

OTHER SYMBOLS

POROSITY

	Earthy
	Fenest
	Fracture
	Inter
	Moldic
	Organic
	Pinpoint
	Vuggy

sml logo 3

OIL SHOW

	Even
	Spotted
	Ques
	Dead

SORTING

	Well
	Moderate
	Poor

ROUNDING

	Rounded
	Subrnd
	Subang

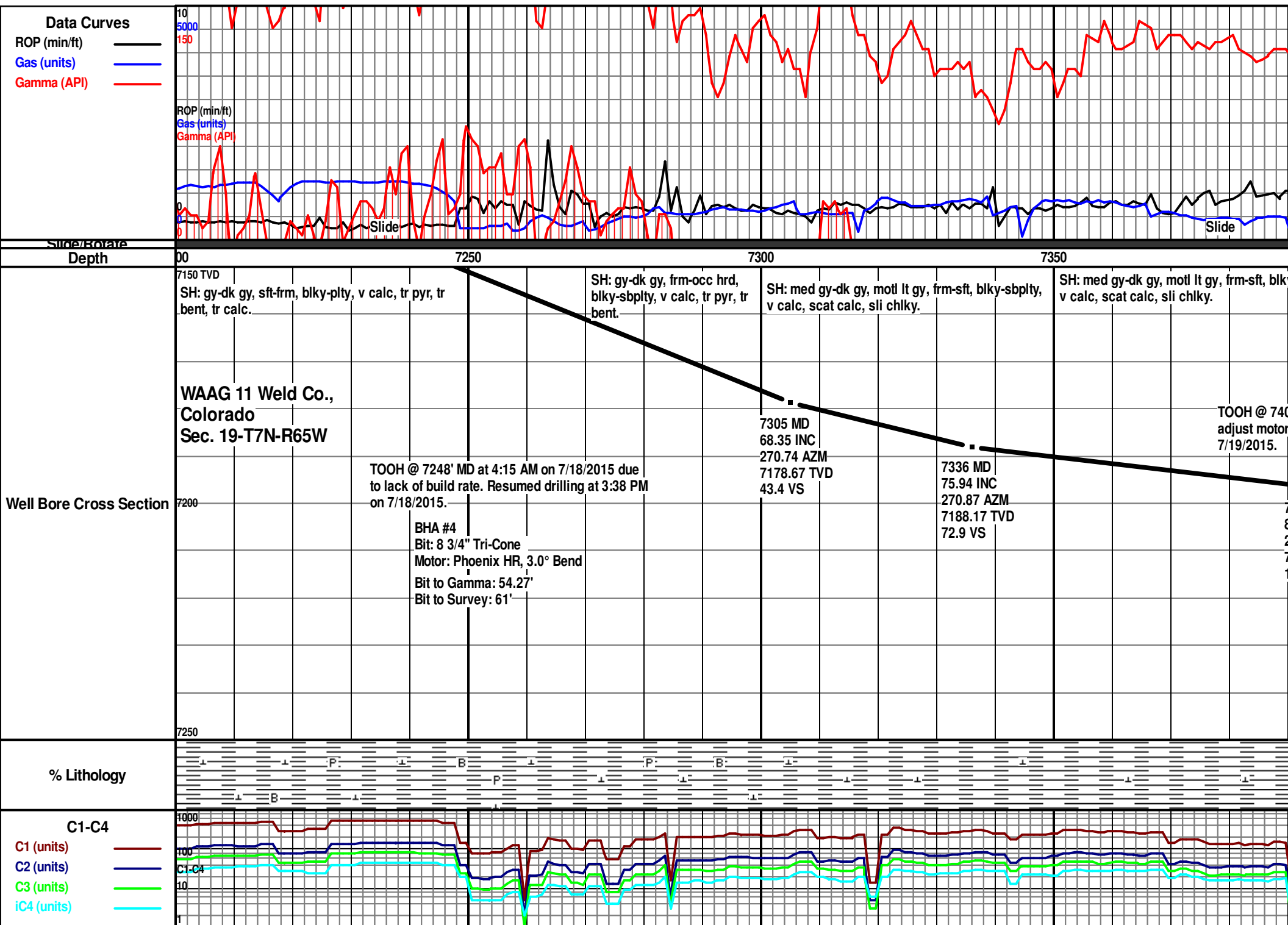
Angular

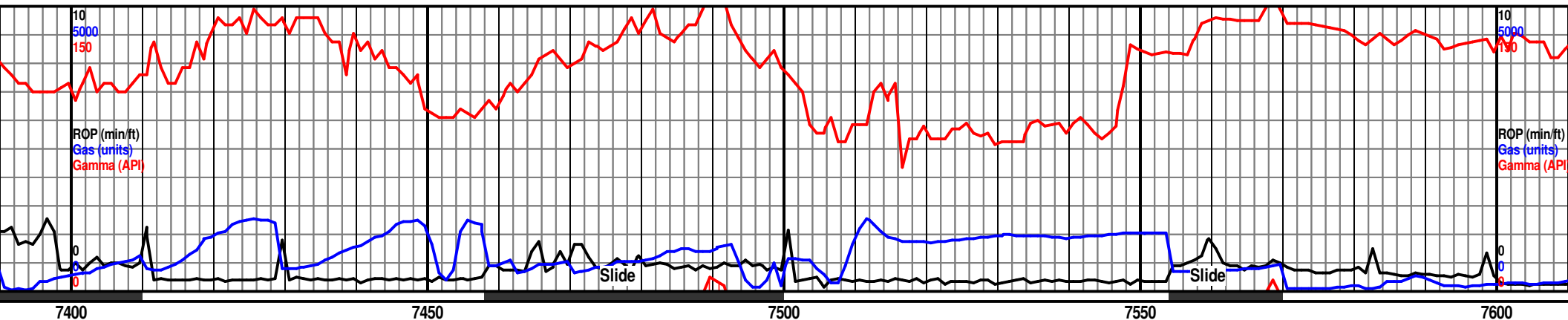
INTERVAL

	Core
	Dst

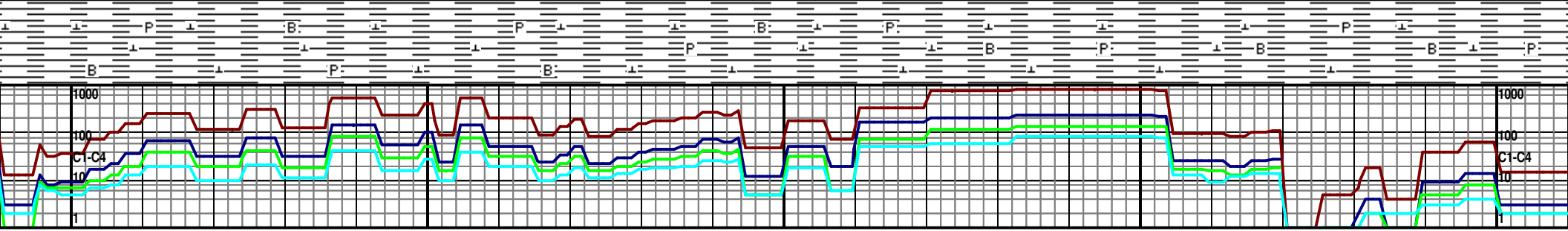
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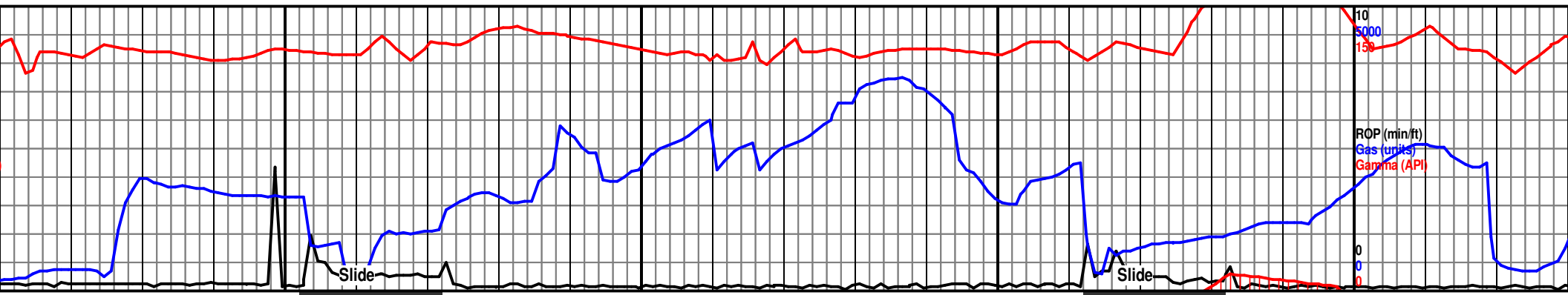
	Rft
	Sidewall





<p>SH: gy-dk gy, sft frm, blk y-pty, v calc, tr pyr, abt calc, tr bent, sli chlky, no vis stn, no fluor, v wk slw mlky cut.</p> <p>BHA #5 Bit: 8 3/4" Smith SDi519 (7x15s) Motor: Phoenix HR, 1.83° Bend</p> <p>Bit to Gamma: 54.27' Bit to Survey: 61'</p> <p>7399 MD 87.46 INC 272.01 AZM 7197.25 TVD 135.0 VS</p>	<p>SH: gy-dk gy, sft frm, blk y-pty, v calc, tr pyr, abt calc, tr bent, sli chlky, no vis stn, no fluor, v wk slw mlky cut.</p> <p>7509 MD 86.67 INC 268.27 AZM 7203.91 TVD 244.3 VS</p>	<p>SH: dk gy-blk, sft frm, blk y-pty, v calc, tr pyr, abt calc, tr bent, sli chlky, no vis stn, no fluor, v slw wk mlky cut.</p> <p>TD BUILD SECTION 7570' MD AT 8:16 AM 7/19/2015. Resumed drilling on 7/20/2015 @ 2:38 PM Intermediate Casing set at 7550' MD</p> <p>7578 MD 87.71 INC 268.32 AZM 7207.29 TVD 312.8 VS</p>	<p>SH: dk gy-blk, sft frm, blk y-pty, v calc, tr pyr, abt calc, tr bent, sli chlky, no vis stn, no fluor, v slw wk mlky cut.</p> <p>BHA #6 Bit: 6 1/8" REED 516 Motor: Phoenix HR, Bit to Gamma: 55.49 Bit to Survey: 70'</p>
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SH: dk gy-blk, sft frm, blk-plty, v calc, tr pyr, tr bent, abt calc, sli chlky, no vis stn, no fluor, v slw wk mlky cut.	SH: dk gy-blk, sft frm, blk-plty, v calc, tr pyr, tr bent, abt calc, sli chlky, no vis stn, no fluor, v slw wk mlky cut.	SH: dk gy-blk, sme gy, sft frm, blk-plty, v calc, tr pyr, tr bent, abt calc, sli chlky, no vis stn, no fluor, v slw wk mlky cut.	SH: dk gy-blk, sme gy, sft frm, blk-plty, v calc, tr pyr, tr bent, abt calc, sli chlky, no vis stn, no fluor, v slw wk mlky cut.
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6 (5x14s)
1.50° Bend
g'

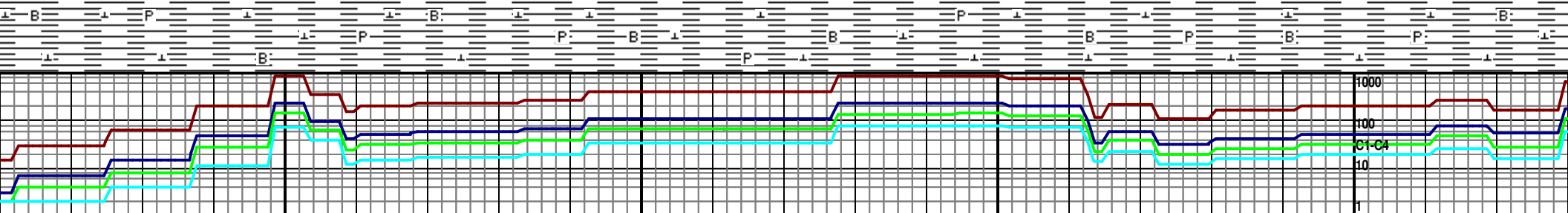
Mud Wt. 9.4 Vis. 31

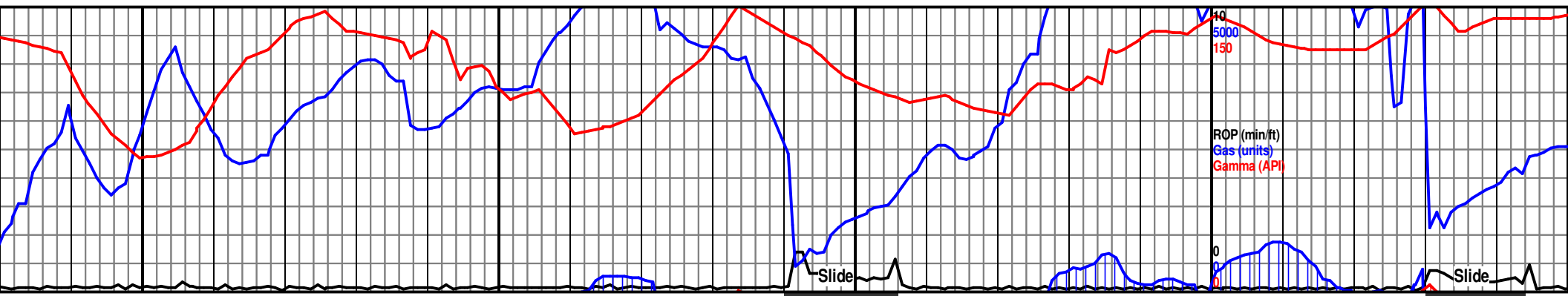
7673 MD
89.47 INC
268.09 AZM
7209.63 TVD
407.2 VS

7767 MD
90.61 INC
267.64 AZM
7209.57 TVD
500.5 VS

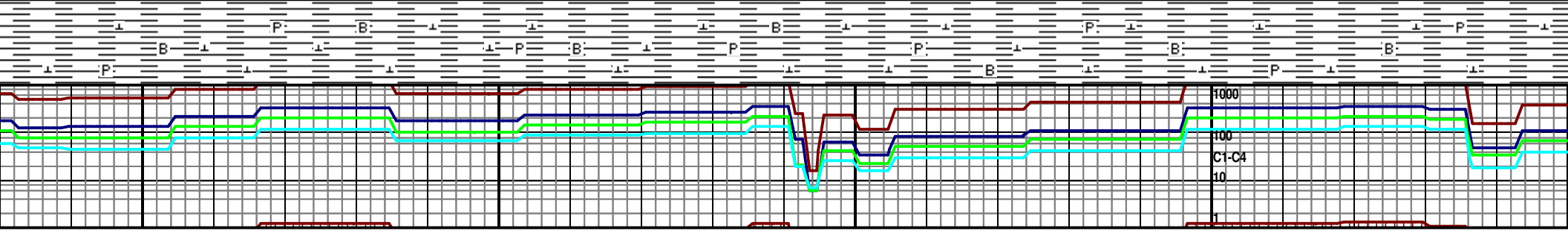
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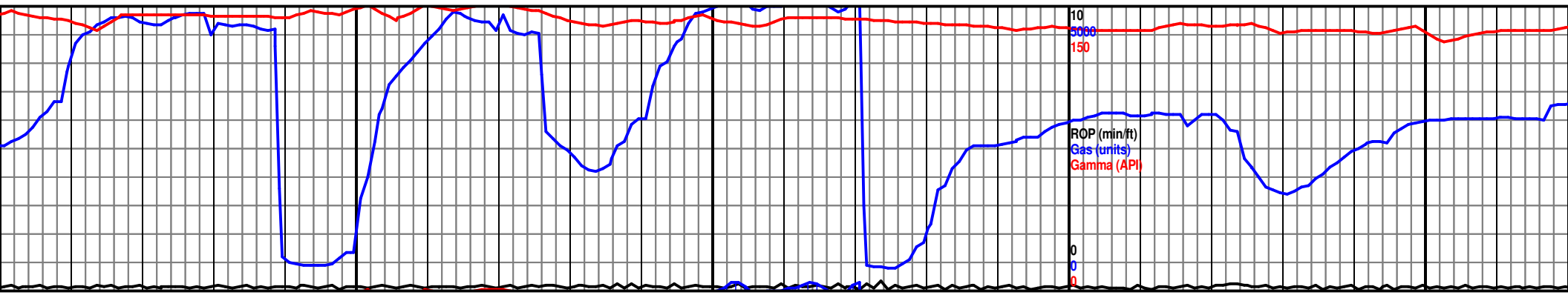
7250



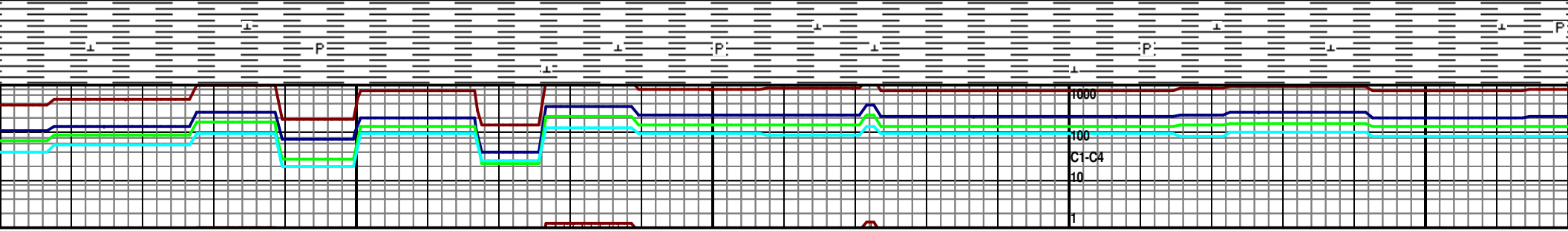


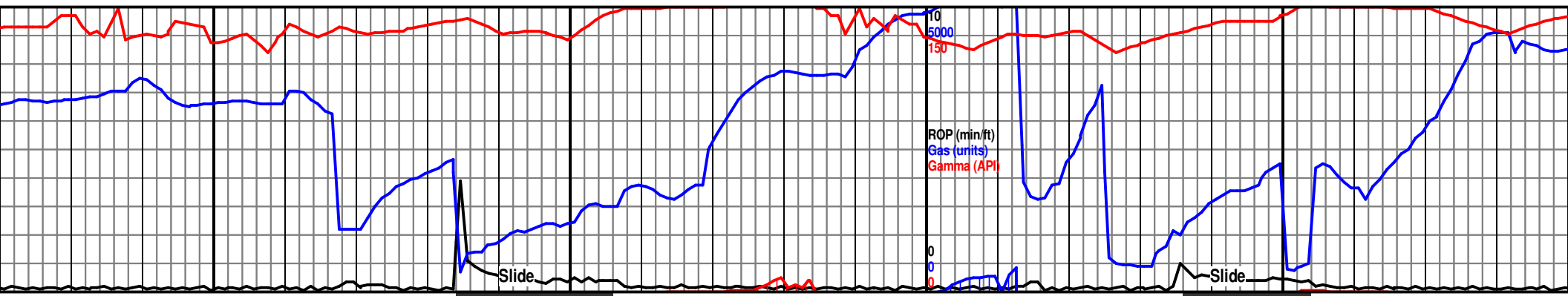
7850	7900	7950	8000	8050
blky-plty, v calc, tr no vis stn, no	SH: dk gy-blk, sme gy, sft frm, blky-plty, v calc, tr pyr, tr bent, abt calc, sli chlky, no vis stn, no fluor, v slw wk mlky cut.	SH: dk gy-blk, sme gy, sft frm, blky-plty, v calc, tr pyr, tr bent, abt calc, sli chlky, no vis stn, no fluor, v slw wk mlky cut.	SH: dk gy-blk, sme gy, sft frm, blky-plty, v calc, tr pyr, tr bent, abt calc, chlky in pts, no vis stn, no fluor, v slw wk mlky cut.	7150 TVD SH: dk gy-blk, sme gy, sft frm, blky-plty, v calc, tr pyr, tr bent, abt calc, chlky in pts, no vis stn, no fluor, v slw wk mlky cut.
	7862 MD 92.55 INC 268.17 AZM 7206.95 TVD 594.9 VS		7956 MD 91.76 INC 268.92 AZM 7203.41 TVD 688.3 VS WOB: 25-29 klbs RPM: 61 SPP: 4605 PSI SPM #1: 0 SPM #2: 90 Pump Rate: 333 GPM	8050 89.8 269. 7202 781.





<p>SH: dk gy-blk, sme med gy, frm- sli frm, blky-sbply, v calc, tr pyr, abt calc, chlky ip, no vis stn, no fluor, imb bri blu/wh mlky cut.</p>	<p>SH: dk gy-blk, sme med gy, frm- sli frm, blky-sbply, v calc, tr pyr, abt calc, chlky ip, no vis stn, no fluor, imb bri blu/wh mlky cut.</p>	<p>SH: dk gy-blk, sme med gy, frm- sli frm, blky-sbply, v calc, tr pyr, abt calc, chlky ip, no vis stn, no fluor, imb bri blu/wh mlky cut.</p>	<p>SH: dk gy-blk, sme med gy, frm- sli frm, blky-sbply, v calc, tr pyr, abt calc, chlky ip, no vis stn, no fluor, imb bri blu/wh mlky cut.</p>	<p>SH: dk gy-gy/blk, fr abt calc, scat bent, blu/wh diff cut.</p>
<p>MD 6 INC 05 AZM 2.08 TVD 8 VS</p>	<p>8145 MD 90.28 INC 271.63 AZM 7201.97 TVD 876.5 VS</p>		<p>8239 MD 90.14 INC 275.46 AZM 7201.62 TVD 970.5 VS</p>	



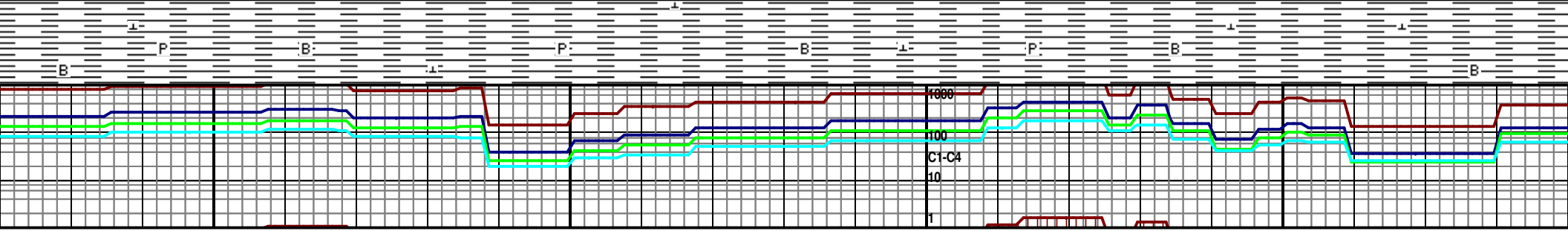


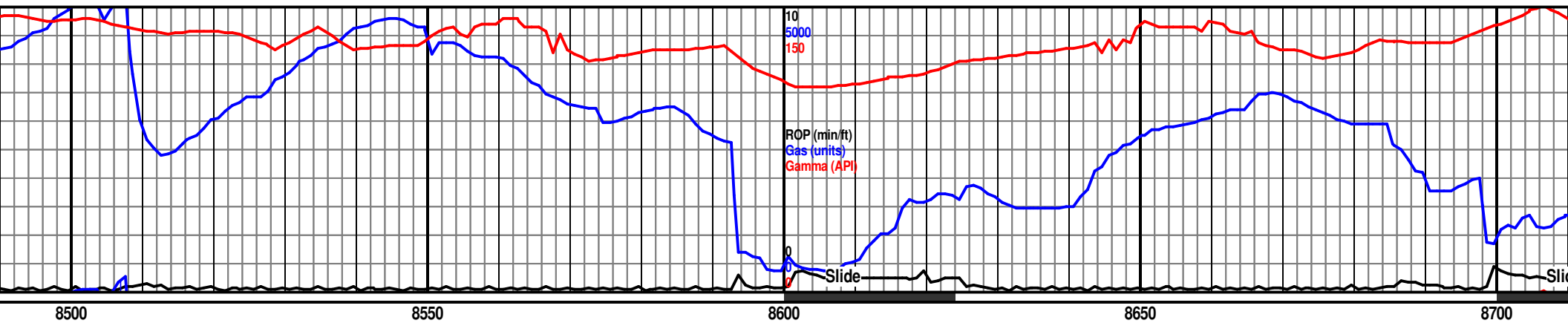
m-sli frm, blk-sbpty, tr pyr, chlky ip, no fluor, mod bri	SH: dk gy-gy/blk, frm-sli frm, blk-sbpty, tr pyr, abt calc, scat bent, chlky ip, no fluor, mod bri blu/wh diff cut.	SH: dk gy-gy/blk, frm-sli frm, blk-sbpty, tr pyr, abt calc, scat bent, chlky ip, no fluor, mod bri blu/wh diff cut.	SH: dk gy-gy/blk, frm-sli frm, blk-sbpty, tr pyr, abt calc, scat bent, chlky ip, no fluor, mod bri blu/wh diff cut.	SH: dk gy-gy/blk, frm-sli frm, blk-sbpty, tr pyr, abt calc, scat bent, chlky ip, no fluor, mod bri blu/wh diff cut.
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Mud Wt. 9.15 Vis. 38

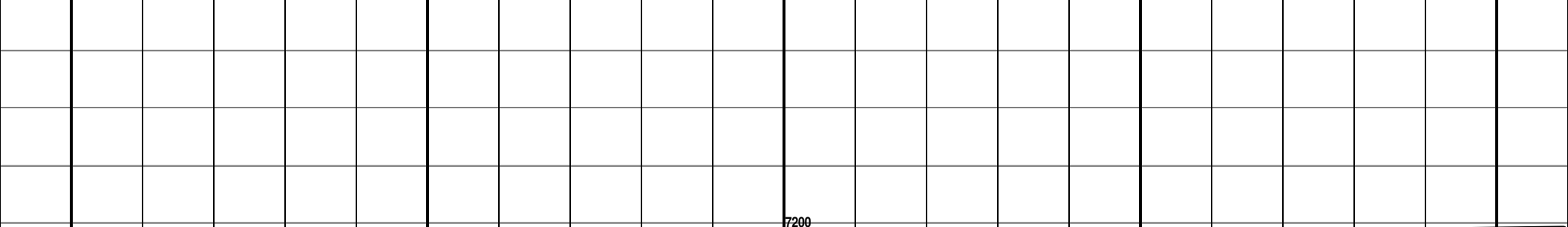
8334 MD
90.70 INC
277.24 AZM
7200.93 TVD
1065.5 VS

8428 MD
89.64 INC
274.67 AZM
7200.65 TVD
1159.4 VS



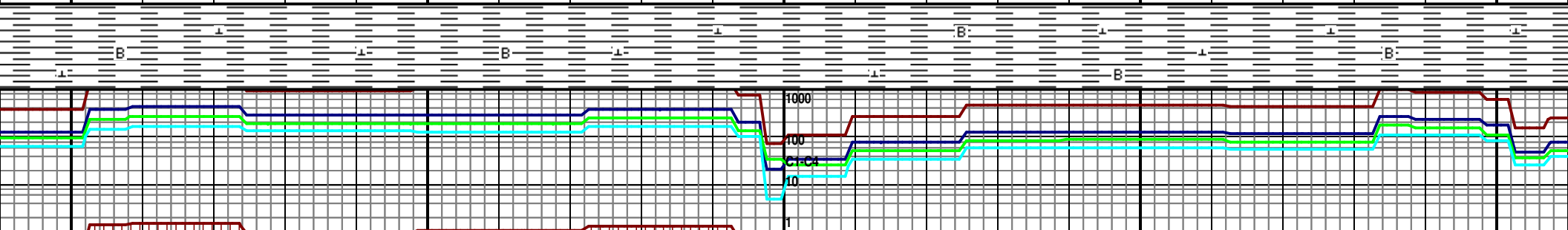


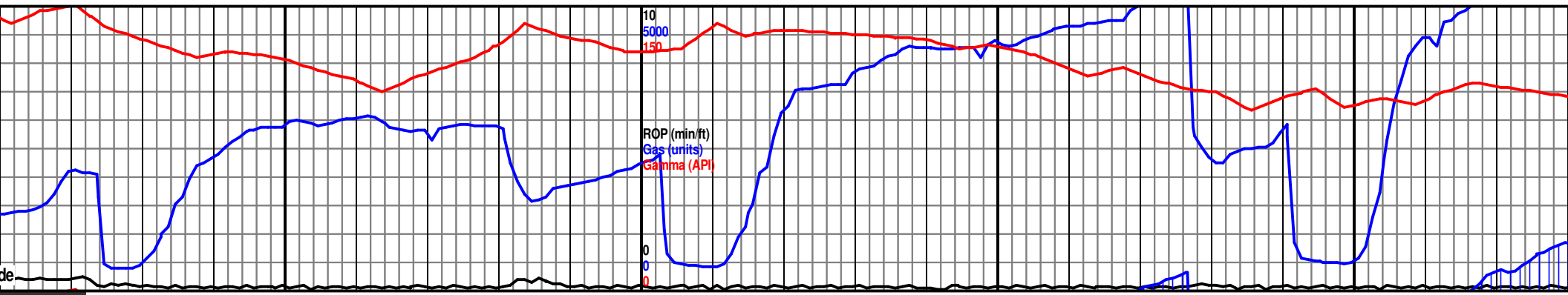
8500	8550	8600	8650	8700
SH: dk gy-gy/blk, frm-sli frm, blk-sbply, tr pyr, abt calc, scat bent, chiky ip, no fluor, pale mlky cut.	SH: dk gy-gy/blk, frm-sli frm, blk-sbply, tr pyr, abt calc, scat bent, chiky ip, no fluor, pale mlky cut.	SH: dk gy-gy/blk, frm-sli frm, blk-sbply, tr pyr, abt calc, scat bent, chiky ip, no fluor, pale mlky cut.	SH: dk gy-gy/blk, frm-sli frm, blk-sbply, tr pyr, abt calc, scat bent, chiky ip, no fluor, pale mlky cut.	SH: dk gy-gy/blk, frm-sli frm, blk-sbply, tr pyr, abt calc, scat bent, chiky ip, no fluor, pale mlky cut.



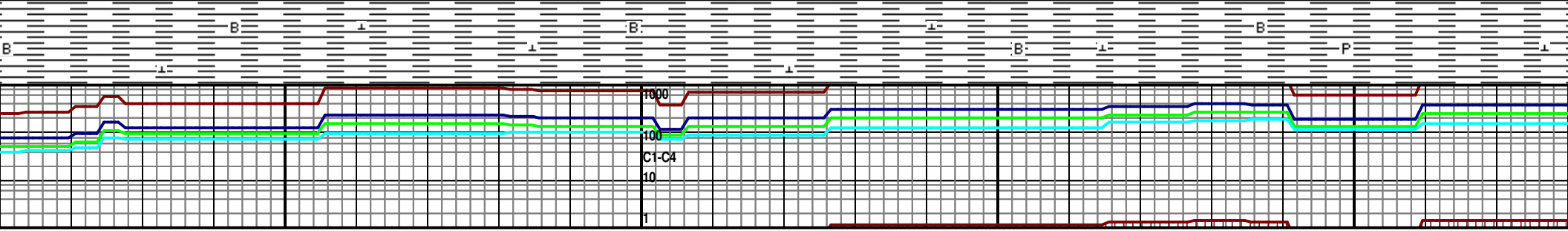
8523 MD 88.69 INC 273.92 AZM 7202.03 TVD 1254.4 VS	8617 MD 90.89 INC 272.55 AZM 7202.38 TVD 1348.4 VS	8717 MD 90.89 INC 272.55 AZM 7202.38 TVD 1348.4 VS
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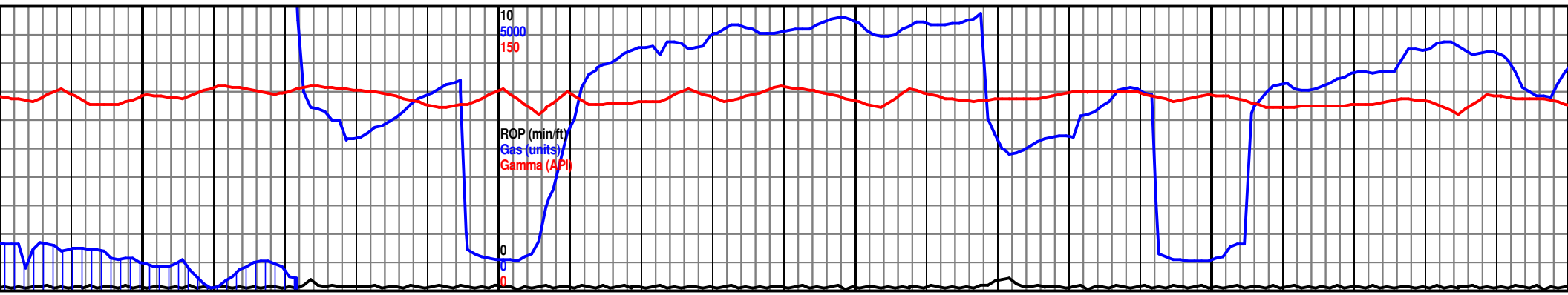
WOB: 31-34 klbs
RPM: 66 |
SPP: 5090 PSI
SPM #1: 0
SPM #2: 89
Pump Rate: 331 GPM



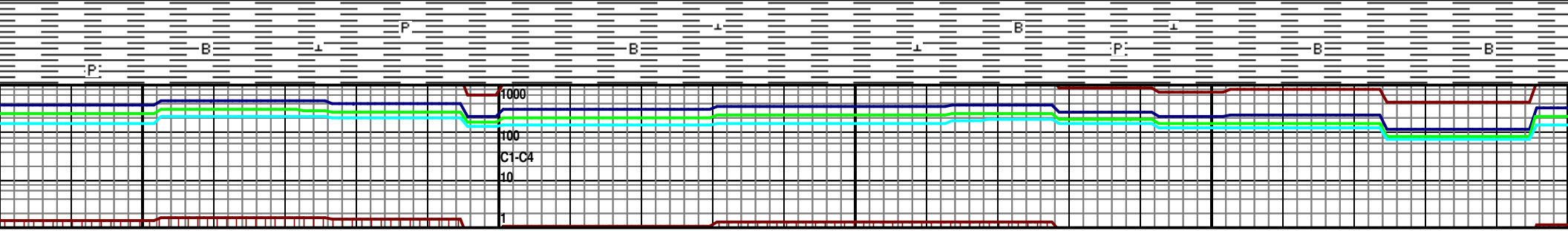


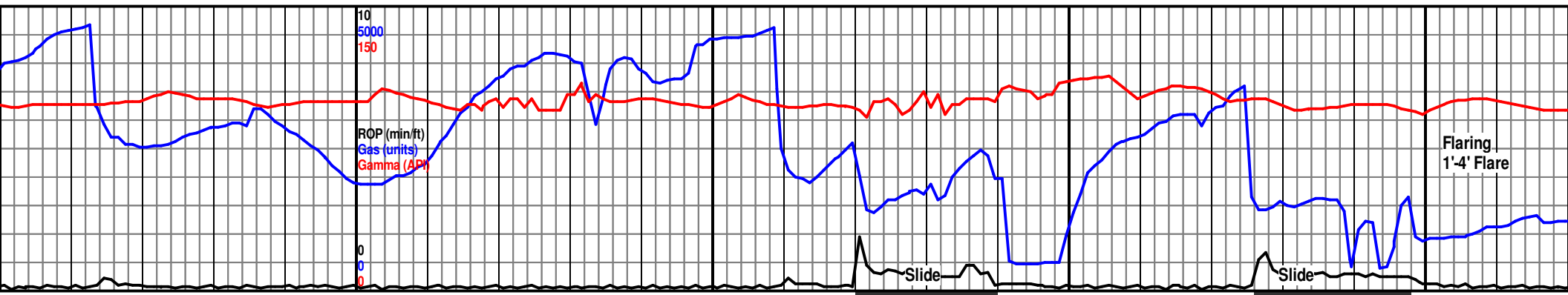
<p>8750</p> <p>gy/blk, frm-sli frm, blk-pty, abt calc, tr bent, chky ip, no fluor, mod bri mlky cut.</p>	<p>8800</p> <p>SH: dk gy-gy/blk, frm-sli frm, blk-pty, abt calc, tr bent, chky ip, no fluor, mod bri blu/wh mlky cut.</p>	<p>8850</p> <p>SH: dk gy-gy/blk, frm-sli frm, blk-pty, abt calc, tr bent, chky ip, no fluor, mod bri blu/wh mlky cut.</p>	<p>8900</p> <p>SH: dk gy-motl gy, scat gy/blk, scat calc, tr bent, tr pyr, chky blu/wh mlky cut.</p>
<p>11 MD 95 INC 3.88 AZM 00.87 TVD 2.1 VS</p>	<p>8806 MD 90.56 INC 267.23 AZM 7199.61 TVD 1536.5 VS</p>		<p>8900 MD 90.08 INC 266.65 AZM 7199.09 TVD 1629.7 VS</p>





8950	9000	9050	9100	9150
x, frm blk-y-sbply, y, no fluor, bri	SH: dk gy-motl gy, scat gy/blk, frm blk-y-sbply, scat calc, tr bent, tr pyr, chlky, no fluor, bri blu/wh mlky cut.	SH: dk gy-motl gy, scat gy/blk, frm blk-y-sbply, scat calc, tr bent, tr pyr, chlky, no fluor, bri blu/wh mlky cut.	SH: dk gy-gy/blk, scat motl gy, frm-sli frm, blk-y-sbply, scat calc, tr bent, tr pyr, chlky ip, no fluor, g blu/wh mlky cut.	SH: dk gy-gy/blk, scat motl gy, frm-sli frm, blk-y-sbply, scat calc, tr bent, tr pyr, chlky ip, no fluor, g blu/wh mlky cut.
	WOB: 26-29 klbs RPM: 49 SPP: 4744 PSI SPM #1: 0 SPM #2: 82 Pump Rate: 303 GPM			
	8994 MD 90.03 INC 266.22 AZM 7199.00 TVD 1722.7 VS		9089 MD 89.66 INC 265.75 AZM 7199.26 TVD 1816.7 VS	





50 9200 9250 9300 9350

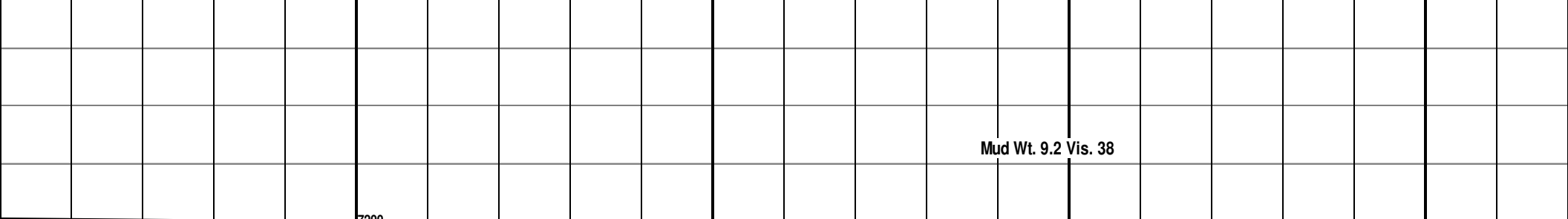
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SH: dk gy-med gy, scat gy/blk, frm, sbblky, scat calc, tr bent, chlky, no fluor, wk mlky cut.

SH: dk gy-med gy, scat gy/blk, frm, sbblky, scat calc, tr bent, chlky, no fluor, wk mlky cut.

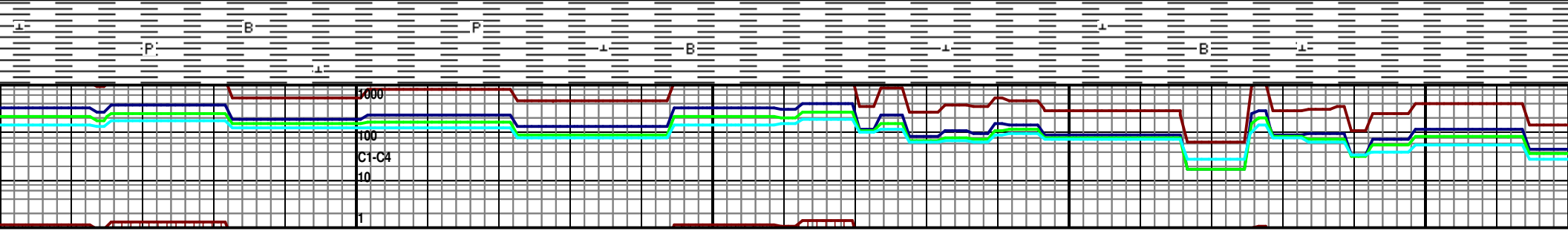
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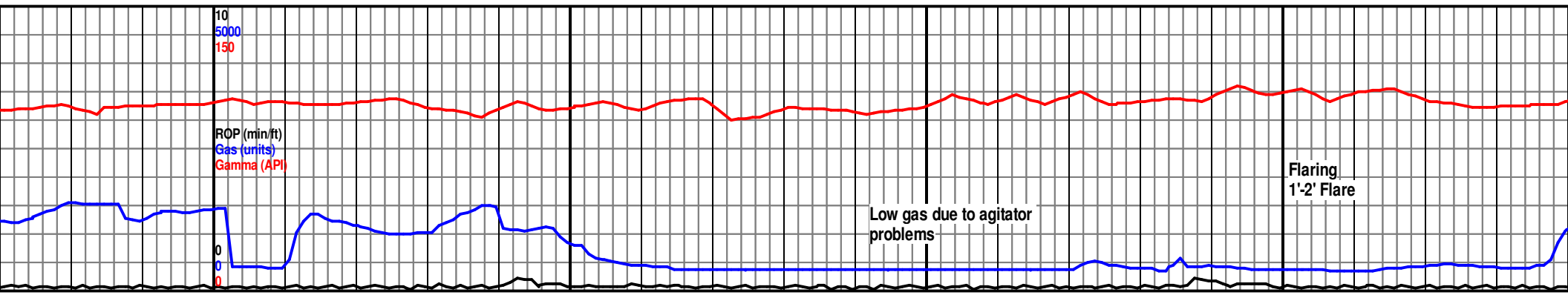
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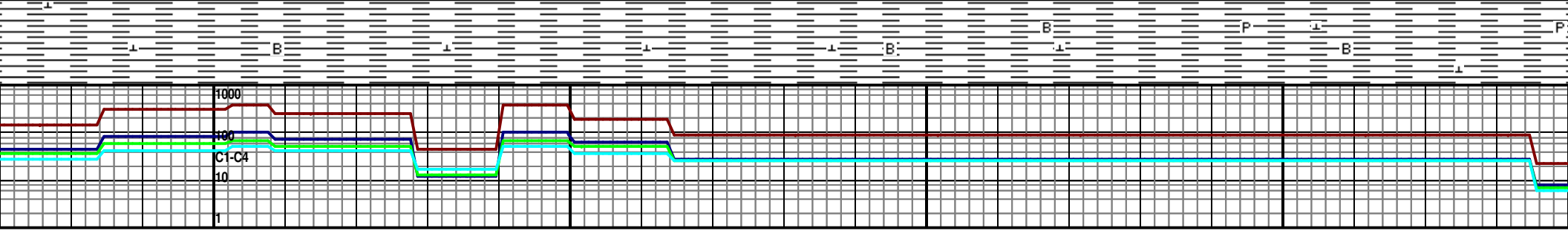
9183 MD
89.05 INC
265.51 AZM
7200.31 TVD
1909.5 VS

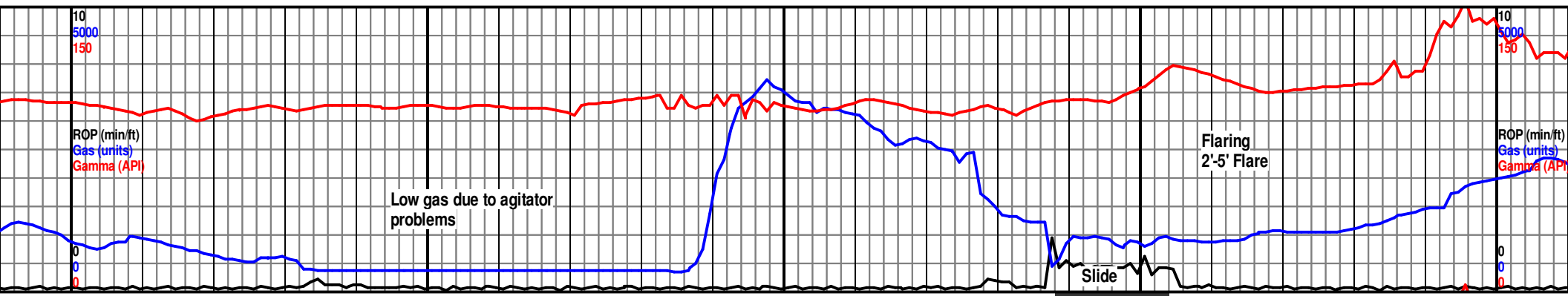
9278 MD
89.64 INC
267.24 AZM
7201.40 TVD
2003.6 VS



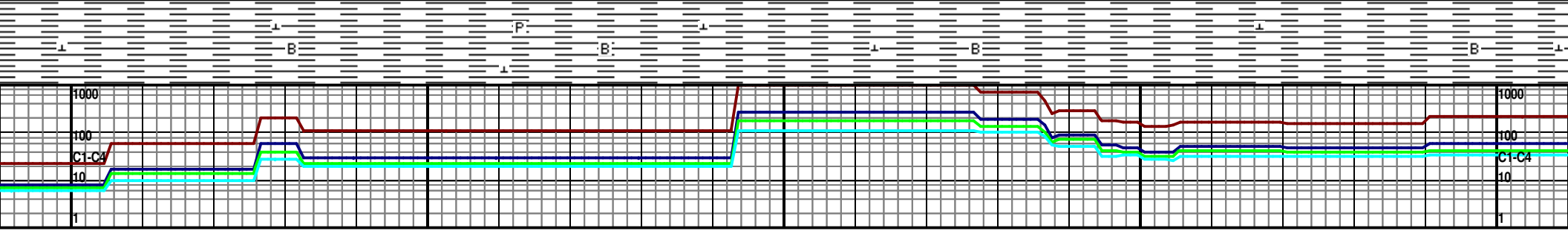


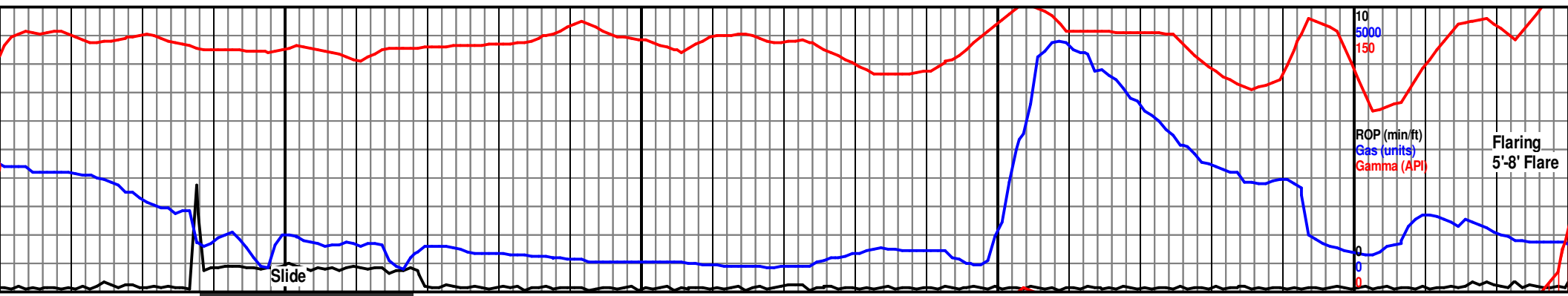
gy, scat blk, frm-sli frm, r bent, chalky, no fluor, bri	SH: med dk gy-dk gy, scat blk, frm-sli frm, sbbiky, scat calc, tr bent, chalky, no fluor, bri blu/wh milky cut.	SH: med dk gy-dk gy, scat blk, frm-sli frm, sbbiky, scat calc, tr bent, chalky, no fluor, bri blu/wh milky cut.	SH: dk gy-gy/blk, frm-sli frm, blk-y-sbply, tr pyr, abt calc, scat bent, chiky ip, no fluor, mod bri blu/wh diff cut.	SH: dk gy-gy/blk, frm-sli frm, blk-y-sbply, abt calc, scat bent, chiky ip, no fluor, mod bri blu/wh diff cut.
			7/21/2015	
372 MD 3.35 INC 69.07 AZM 203.05 TVD 996.9 VS		9466 MD 89.19 INC 269.94 AZM 7205.07 TVD 2190.6 VS		9560 MD 90.59 INC 273.77 AZM 7205.25 TVD 2284.4 VS
			WOB: 25-27 klbs RPM: 49 SPP: 4731 PSI SPM #1: 82 SPM #2: 0 Pump Rate: 303 GPM	





9600					9650					9700					9750					9800				
tr pyr, od bri					SH: med gy-dk gy, scat lt gy, frm-sli frm, blky-sbbkly, tr ls calc, tr bent, chlky, no fluor, mod blu/wh mlky cut.					SH: med gy-dk gy, scat lt gy, frm-sli frm, blky-sbbkly, tr ls calc, tr bent, chlky, no fluor, mod blu/wh mlky cut.					SH: dk gy-med gy, dk gy/brn, scat gy, frm-sli frm, sbbkly-sbply, scat lse calc, tr bent, chlky, no fluor, blu/wh mlky cut.					SH: dk gy frm, sbbkly no fluor,				
7150 TVD																				7150 TVD				
7200																				7200				
					9655 MD 91.85 INC 276.65 AZM 7203.22 TVD 2379.4 VS										9749 MD 91.57 INC 276.82 AZM 7200.42 TVD 2473.3 VS									
7250																				7250				





SH: dk gy-med gy, dk gy/brn, scat gy, frm-sli
frm, sbblky-sbplty, scat lse calc, tr bent, chlky,
no fluor, blu/wh mlky cut.

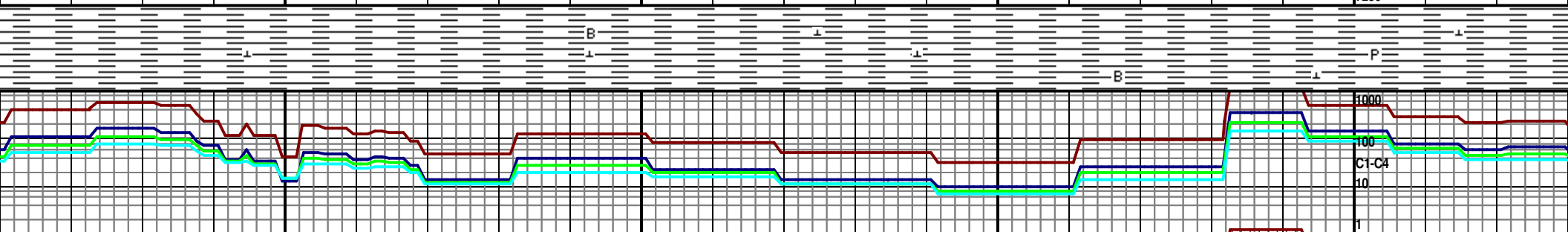
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abt calc, scat bent, chlky ip, no fluor, pale mlky
cut.

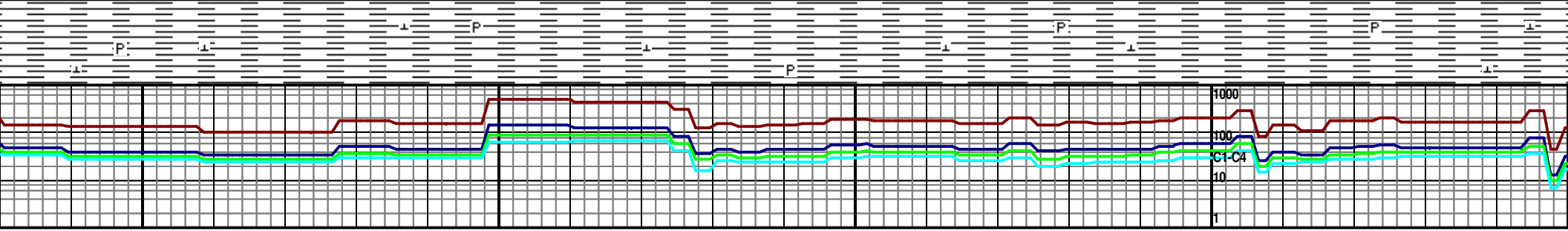
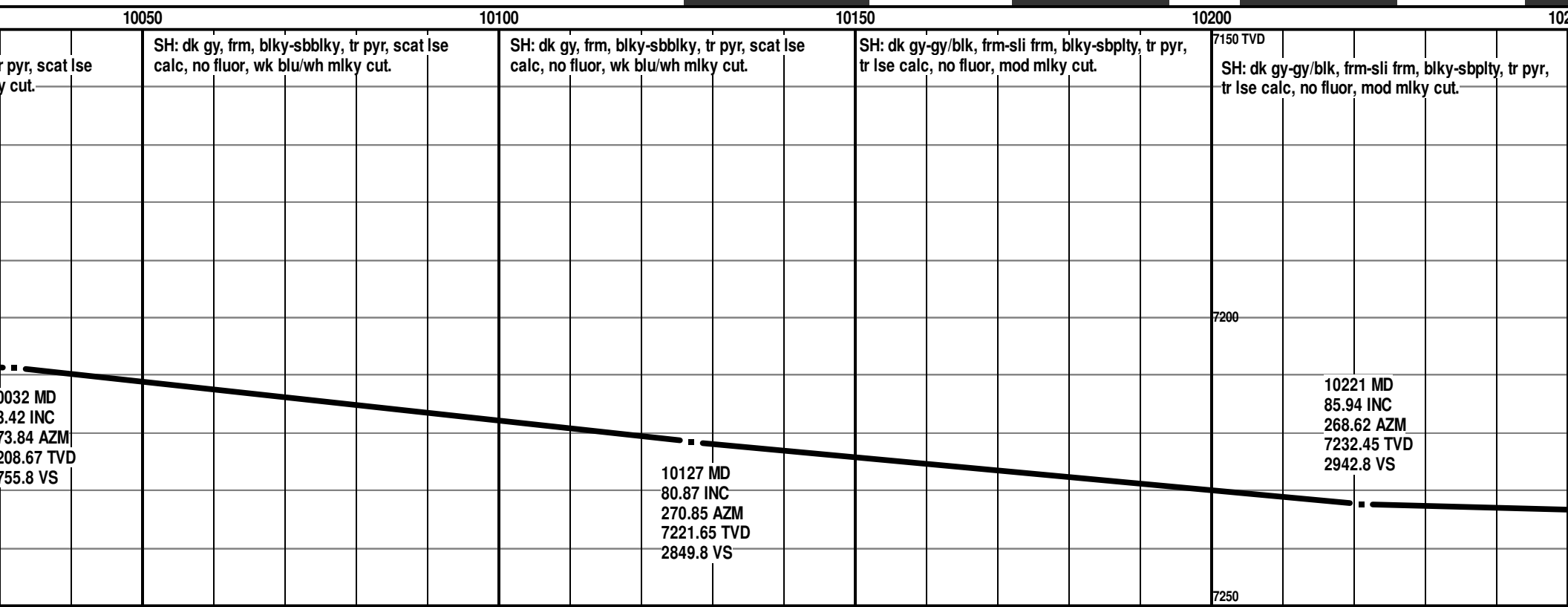
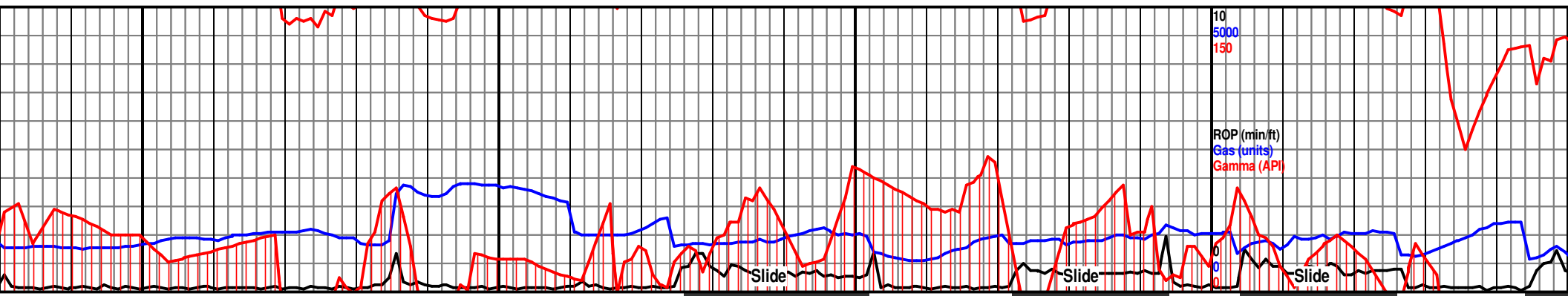
SH: dk gy-gy/blk, frm-sli frm, blk-y-sbplty, tr pyr,
abt calc, scat bent, chlky ip, no fluor, pale mlky
cut.

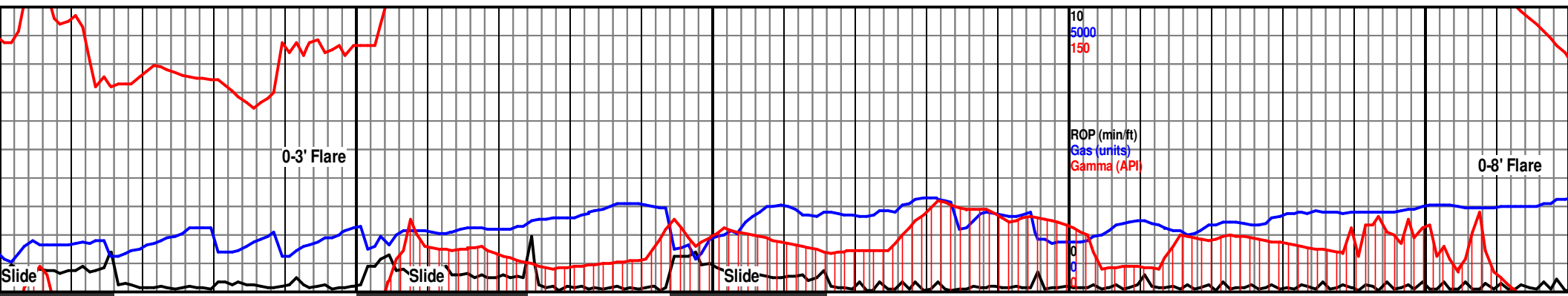
SH: dk gy, frm, blk-y-sbblky, tr pyr,
abt calc, no fluor, wk blu/wh mlky cut.

9844 MD
90.50 INC
276.75 AZM
7198.70 TVD
2568.2 VS

WOB: 32-35 klbs
RPM: 49
SPP: 5002 PSI
SPM #1: 81
SPM #2: 0
Pump Rate: 302 GPM







250 10300 10350 10400 10450

SH: gy, dk gy-blk, sft frm, blk y-plty, v calc, chlky in pts, tr pyr, tr bent, sct calc, no vis stn, no fluor, wk slw mlky cut.

SH: gy, dk gy-blk, sft frm, blk y-plty, v calc, chlky in pts, tr pyr, tr bent, sct calc, no vis stn, no fluor, wk slw mlky cut.

SH: gy, dk gy-blk, sft frm, blk y-plty, v calc, chlky in pts, tr pyr, tr bent, sme calc, no vis stn, no fluor, wk slw mlky cut.

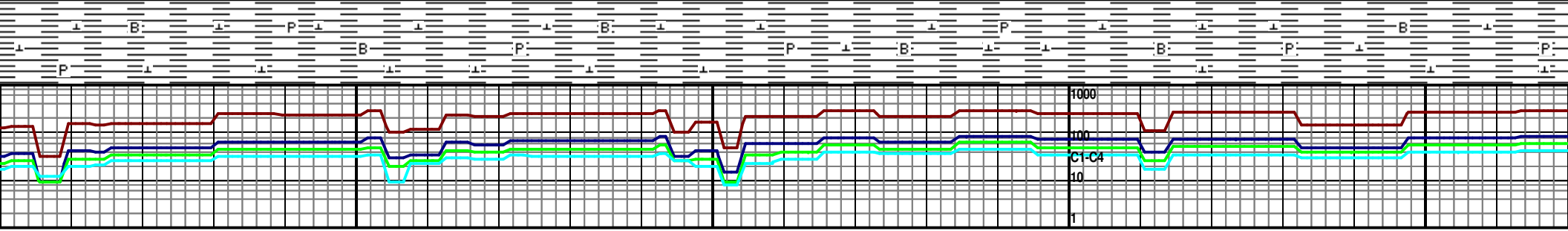
7150 TVD
SH: gy, dk gy-blk, sft frm, blk y-plty, v calc, chlky in pts, tr pyr, tr bent, sme calc, no vis stn, no fluor, wk slw mlky cut.

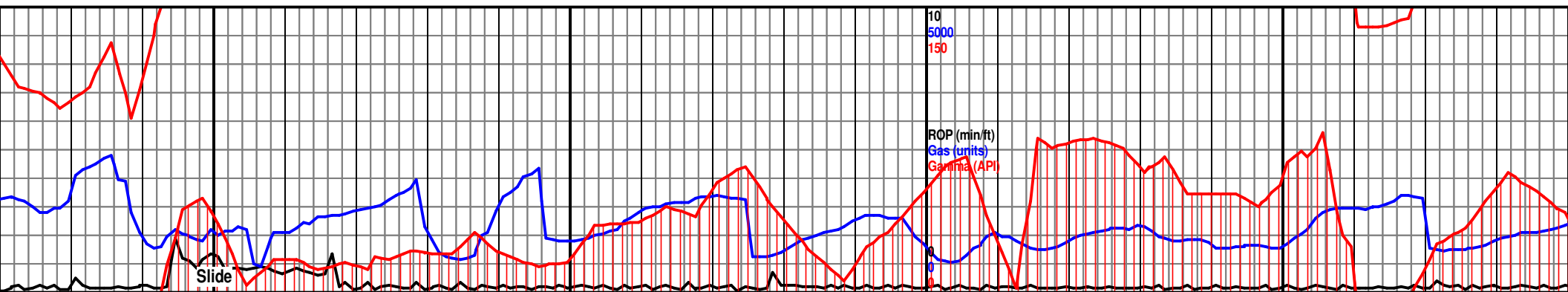
SH: gy, dk gy-blk, sft frm, blk y-plty, v calc, chlky in pts, tr pyr, tr bent, sme calc, no vis stn, no fluor, wk slw mlky cut.

Mud Wt. 9.5 Vis. 35

10315 MD
90.42 INC
269.20 AZM
7235.43 TVD
3036.3 VS

10410 MD
95.71 INC
270.33 AZM
7230.35 TVD
3130.8 VS





10500

10550

10600

10650

t-frm, blk-y-plty, v calc, chlky
abt calc, no vis stn, no fluor,

SH: gy, dk gy-blk, sft-frm, blk-y-plty, v calc, chlky
in pts, tr pyr, tr bent, abt calc, no vis stn, no fluor,
wk slw mlky cut.

SH: gy, dk gy-blk, sft-frm, blk-y-plty, v calc, sli
chlky, tr pyr, tr bent, abt calc, no vis stn, no fluor,
wk slw mlky cut.

7150 TVD
SH: gy, dk gy-blk, sft-frm, blk-y-plty, v calc, sli
chlky, tr pyr, tr bent, sct calc, no vis stn, no fluor,
wk slw mlky cut.

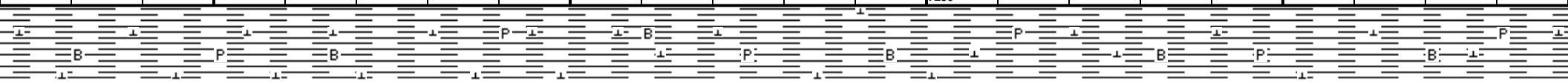
SH: dk gy-blk, sme gy, sft-frm, blk-y-plty,
sli chlky, tr pyr, tr bent, sct calc, no vis
fluor, wk slw mlky cut.

WOB: 20-26 klbs
RPM: 61
SPP: 4657 PSI
SPM #1: 0
SPM #2: 80
Pump Rate: 299 GPM

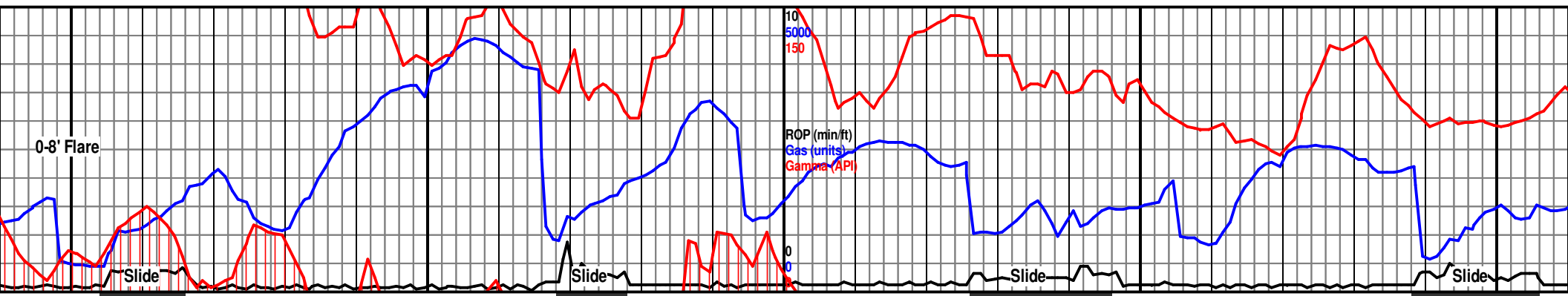
10504 MD
93.36 INC
270.40 AZM
7222.92 TVD
3224.2 VS

10598 MD
90.20 INC
269.91 AZM
7220.00 TVD
3317.9 VS

106
87.4
269
722
341



1000
100
10
1



10700 10750 10800 10850 10900

v calc, stn, no SH: dk gy-blk, sme gy, sft frm, blk-plty, v calc, chlky in pts, tr pyr, tr bent, sme calc, no vis stn, no fluor, wk slw mlky cut.

SH: dk gy-blk, gy, sft frm, blk-plty, v calc, chlky in pts, tr pyr, tr bent, sme calc, no vis stn, no fluor, wk slw mlky cut.

7150 TVD SH: dk gy-blk, gy, sft frm, blk-plty, v calc, chlky in pts, tr pyr, tr bent, sme calc, no vis stn, no fluor, wk slw mlky cut.

SH: dk gy-blk, gy, sft frm, blk-plty, v calc, chlky, tr pyr, tr bent, sct calc, no vis stn, no fluor, wk slw mlky cut.

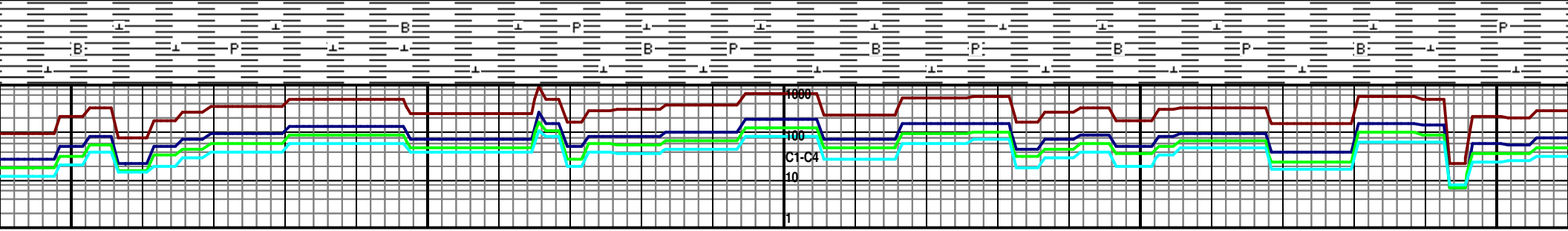
SH: dk gy-blk, gy, sft frm, blk-plty, v calc, chlky, tr pyr, tr bent, sct calc, no vis stn, no fluor, wk slw mlky cut.

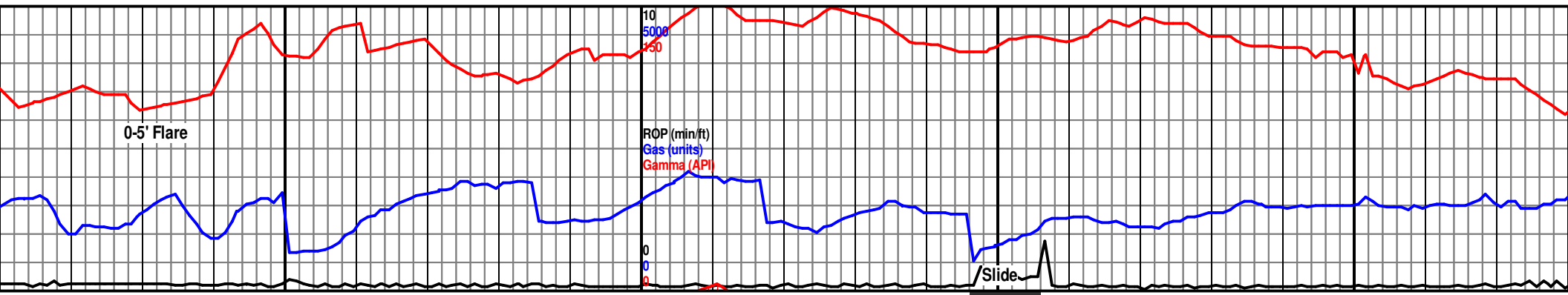
Mud Wt. 9.4 Vis. 35

92 MD
43 INC
.46 AZM
1.95 TVD
1.5 VS

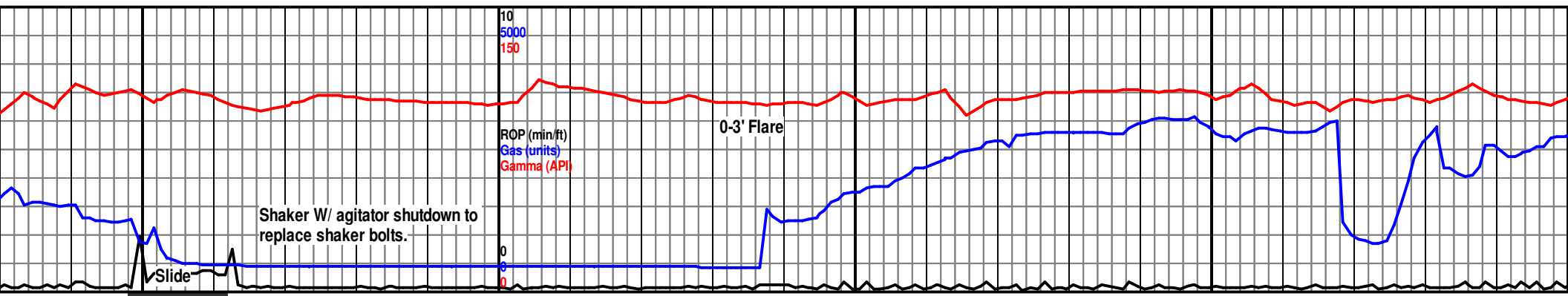
10787 MD
87.09 INC
269.43 AZM
7226.49 TVD
3506.0 VS

10881 MD
88.49 INC
269.62 AZM
7230.11 TVD
3599.6 VS

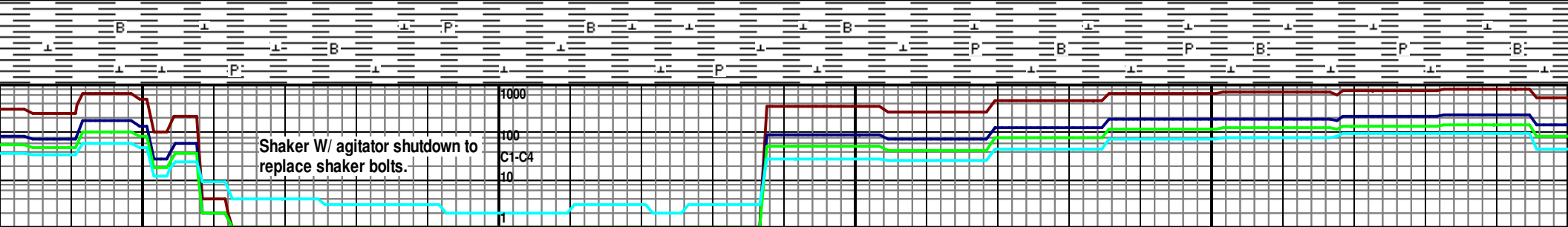


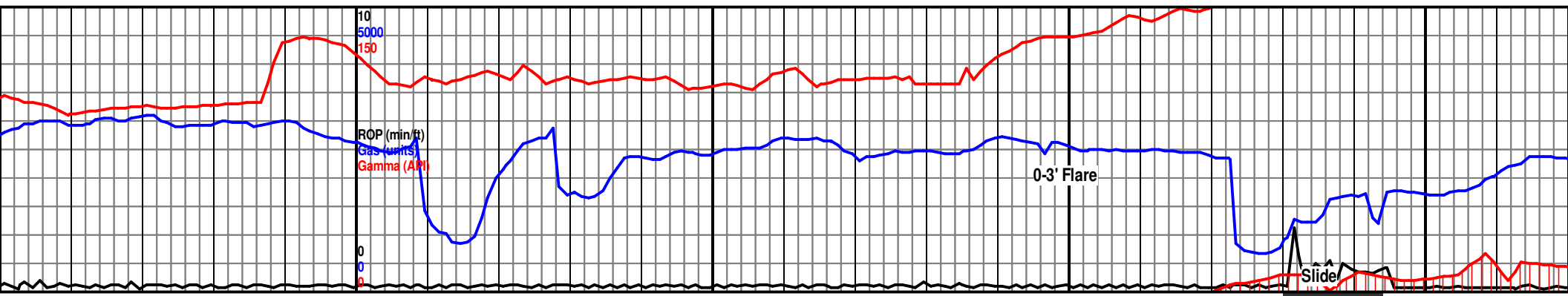


10950					11000					11050					11100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
-blk, gy, sft frm, blk y-pty, v calc, chlky, bent, sct calc, no vis stn, no fluor, wk cut.					SH: dk gy-blk, gy, sft frm, blk y-pty, v calc, chlky in pts, tr pyr, tr bent, abt calc, no vis stn, no fluor, wk slw mlky cut.					7150 TVD SH: dk gy-blk, gy, sft frm, blk y-pty, v calc, chlky in pts, tr pyr, tr bent, abt calc, no vis stn, no fluor, wk slw mlky cut.					SH: gy-dk gy, sft frm, blk y-pty, v calc, chlky in pts, tr pyr, tr bent, sct calc, no vis stn, no fluor, wk slw mlky cut.					SH: gy-dk gy, sft frm, blk y-pty, v calc, chlky in pts, tr pyr, tr bent, sct calc, no vis stn, no fluor, wk slw mlky cut.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											



11150	11200	11250	11300	11350
v calc, chlky in vis stn, no fluor,	SH: gy-dk gy, sft frm, blk y-pty, v calc, chlky in pts, tr pyr, tr bent, sct calc, no vis stn, no fluor, wk slw mlky cut.	7150 TVD SH: gy-dk gy, sft frm, blk y-pty, v calc, chlky in pts, tr pyr, tr bent, sct calc, no vis stn, no fluor, wk slw mlky cut.	SH: gy-dk gy, sft frm, blk y-pty, v calc, chlky in pts, tr pyr, tr bent, sct calc, no vis stn, no fluor, wk slw mlky cut.	SH: gy-dk gy, sft frm, blk y-pty, v calc, chlky in pts, tr pyr, tr bent, sct calc, no vis stn, no fluor, wk slw mlky cut.
	11164 MD 90.36 INC 270.70 AZM 7231.74 TVD 3881.6 VS		11258 MD 90.22 INC 270.24 AZM 7231.27 TVD 3975.4 VS	





50 11400 11450 11500 11550

SH: gy-dk gy, sft frm, blk y-pty, v calc, sli chlky, tr pyr, tr bent, sme calc, no vis stn, no fluor, wk slw mlky cut.

7150 TVD
SH: gy-dk gy, sft frm, blk y-pty, v calc, sli chlky, tr pyr, tr bent, sme calc, no vis stn, no fluor, wk slw mlky cut.

SH: gy-dk gy, sft frm, blk y-pty, v calc, chlky in pts, tr pyr, tr bent, sme calc, no vis stn, no fluor, wk slw mlky cut.

SH: gy-dk gy, sft frm, blk y-pty, v calc, chlky in pts, tr pyr, tr bent, sme calc, no vis stn, no fluor, wk slw mlky cut.

SH: gy-dk gy, sft frm, blk y-pty, v calc, chlky in pts, tr pyr, tr bent, sct ca, wk slw mlky cut.

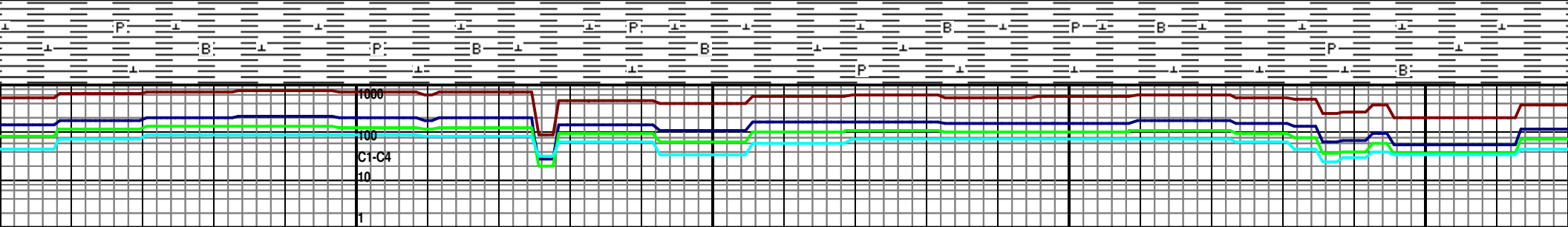
Mud Wt. 9.4 Vis. 35

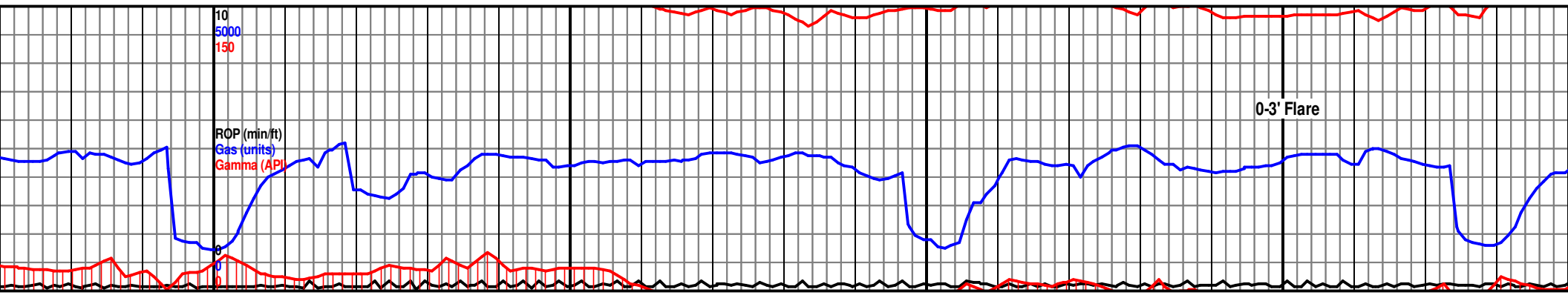
WOB: 21-24 klbs
RPM: 59
SPP: 4519 PSI
SPM #1: 0
SPM #2: 81
Pump Rate: 302 GPM

52 MD
50 INC
.62 AZM
0.67 TVD
9.1 VS

11447 MD
89.33 INC
268.86 AZM
7230.81 TVD
4163.7 VS

11541 MD
90.11 INC
268.38 AZM
7231.27 TVD
4257.2 VS





h, blk-pty, v calc, sli chlky, SH: gy-dk gy, sft-frm, blk-pty, v calc, sli chlky, tr pyr, tr bent, sct calc, no vis stn, no fluor, wk slw mlky cut.

11635 MD
89.50 INC
269.27 AZM
7231.59 TVD
4350.7 VS

11729 MD
89.97 INC
268.04 AZM
7232.03 TVD
4444.2 VS

