



# Weatherford®

Tooke Rockies, Inc.  
(A Weatherford Company)

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

717 West Platte  
PO BOX 435  
Casper, WY 82601  
307-265-2124

## Surface Logging Systems

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

Well Name: Youngberg 10-11-1H (HORZ. SEC./LATERAL)  
Location: NE/SE Sec.11 T4S-R64W, Arapahoe County, CO  
License Number: API- 05-005-07211-00  
Spud Date: 9/9/2013  
Surface Coordinates: 1320' FSL & 255 FEL of NE/SE Sec. 11 T4S-R64W,  
Arapahoe County, CO.  
Bottom Hole Coordinates: From Surface Hole= 500' FWL, 1700 FSL, Sec 10 T4S-R64W, Arapahoe County, CO.  
Ground Elevation (ft): 5673' K.B. Elevation (ft): 5697'  
Logged Interval (ft): 6000' To: 16539' Total Depth (ft): 16539'  
Formation: NIOBRARA  
Type of Drilling Fluid: INVERT(OBM) & WATER BASE

Region: DJ BASIN

Drilling Completed: 10/3/2013

Printed by HORIZONTAL.LOG from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

## OPERATOR

Company: CONOCOPHILLIPS  
Address: 550 Westlake Park Blvd. WL3-3026  
P.O. Box 2197  
Houston, Texas 77252

## GEOLOGIST

Name: TODD THIESSE, GABRIEL GENITEMPO  
Company: WEATHERFORD SLS/TOOKE ROCKIES  
Address: PO BOX 435  
CASPER, WY 82602  
307.265.2124


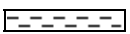

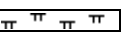
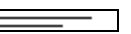
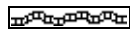




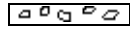


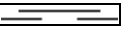




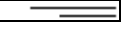

## Supervision

Project Geologist: John Ostergren- Conoco/Phillips  
 Drilling Engineer: Gary Hamilton, Ben Tolman Conoco/Phillips  
 Drilling Sup: Bob Strickler- Conoco/Phillips  
 Company Rep: Richard Perez, Wes Evans(Day Leads)  
 Company Rep: Frank Holubec, Clint Goins, Wayne Morgan, Clint Valentine, Mike Johnson, Mike Weatherly.(Night Leads)  
 Well Site Safety: Rainey Schexnider, James Orr  
 Contact Geologist: Abby Tomkiewicz-Conoco/Phillips  
 Drilling & Comp. Mgr: Derly Gonzalez-Conoco/Phillips
































































## Other Information

Drilling Co.--H & P, Rig #280  
 Toolpusher- Michael Stevens, Josh Coleman  
 Dir. Co.- Sperry/Haliburton  
 Mud Co.- Baroid/Haliburton, Dave Howell, Chase Putnam

## ROCK TYPES

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

## ACCESSORIES

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

## OTHER SYMBOLS

### INTERVALS

■ Core  
◼ Dst

### EVENTS

▤ Rft  
▥ Sidewall

### OIL SHOWS

● Even  
◐ Spotted  
◑ Ques  
◒ Dead

### POROSITY TYPE

Ⓔ Earthy  
Ⓢ Fenest  
Ⓕ Fracture  
ⓧ Inter  
Ⓜ Moldic  
Ⓞ Organic



Pinpoint



Vuggy

### ROUNDING

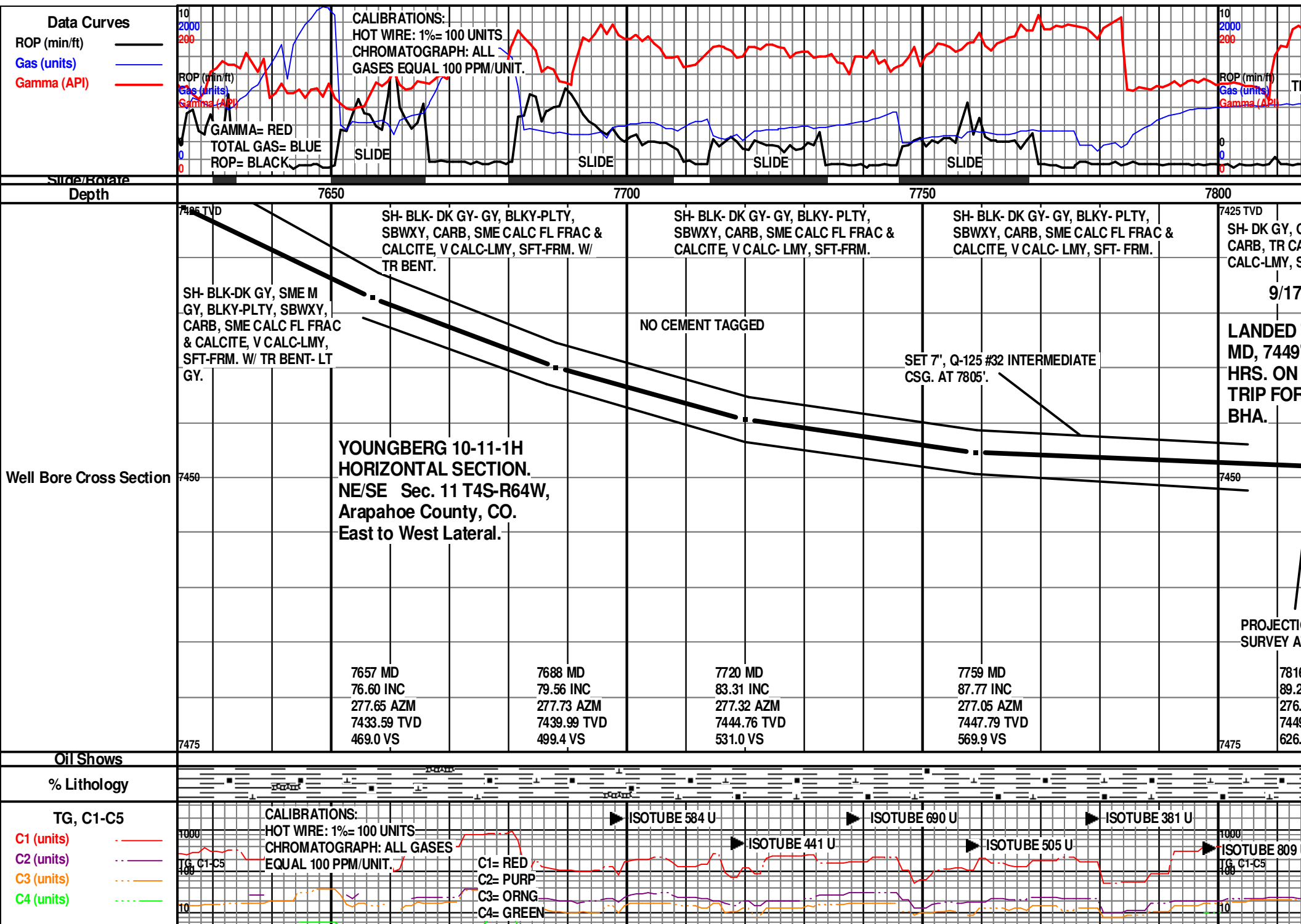
Ⓡ Rounded  
Ⓡ Subrnd  
Ⓢ Subang

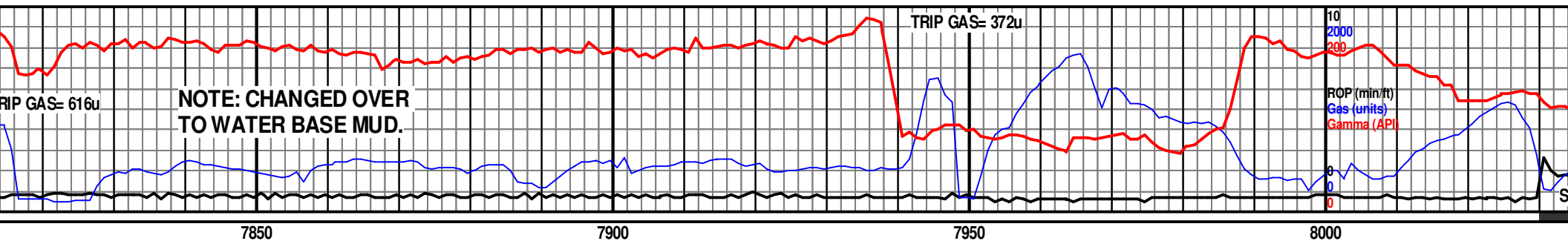


Angular

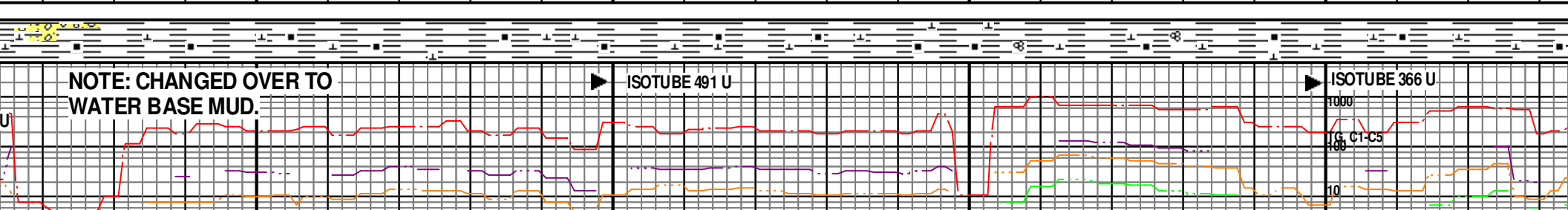
### SORTING

Ⓦ Well  
Ⓜ Moderate  
Ⓟ Poor



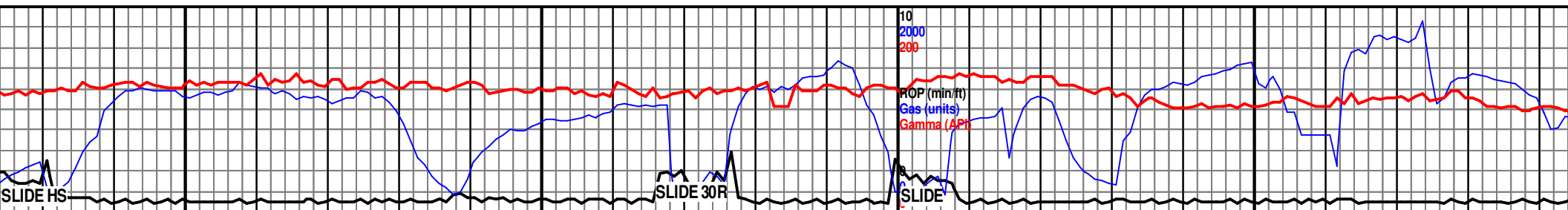


GY, BLK, BLKY-PLTY, SBWXY, CALC FL FRAC & CALCITE, V SFT-FRM. W/ TR CMT.	SH- DK GY, GY, BLK, BLKY-PLTY, SBWXY, CARB, TR CALC FL FRAC & CALCITE, V CALC-LMY, SFT-FRM.	SH- GY-DK GY, LT GY, BLKY-PLTY, SBWXY, CARB, SME CALC FL FRAC & CALCITE, V CALC-LMY, SFT-FRM.	SH- GY-DK GY, LT GY, BLKY-PLTY, SBWXY, CARB, SME CALC FL FRAC & CALCITE, V CALC-LMY, SFT-FRM.	SH- GY-LT GY, SME DK GY, BLKY-PLTY, SBWXY, CARB, INCR CALC FL FRAC & CALCITE, V CALC-LMY, SFT-FRM.	SH- GY-LT GY, SME DK GY, BLKY-PLTY, SBWXY, CARB, CALC FL FRAC & CALCITE, OCC FORAM, V CALC-LMY, SFT-FRM.	7425 TVD SH- GY-LT GY, SME DK GY, BLKY-PLTY, SBWXY, CARB, SME FL FRAC & CALCITE, V CALC-LMY, SFT-FRM.
9/19/2013				9/20/2013		
THE CURVE AT 7816' TVD(PROJ.) AT 2210 9/16/2013.	NOTE: CHANGED OVER TO WATER BASE MUD.			TRIP FOR NEW BHA/TOOLS AT 7948'		
ON TO BIT T LANDING.						
BIT #3, SECURITY, FX54, PDC, 6", 5X16'S JETS, IN AT 7816'.	WT. IN 9.2+, OUT 9.2 VIS. IN 36, OUT 35					
MUD MOTOR IS 1.5°.	WOB. 49K RPM. 35 PP. 1986 SPM. 60 GPM. 270					
GAMMA IS 40.5' BEHIND BIT.		WT. 9.20, VIS. 37, PV. 11, YP. 14, WL. 4.4, FC. 2/32, CORR. SLDS. 4.7, MBT. 10.0, pH. 9.4, CL. 2100, LGS/HGS. 3.0/1.7%.		NEW BIT # 4, RR #3, SECURITY, FX54, 6", PDC, 5X16 JETS, IN AT 7948'.		
				Mud Motor is 1.5° Gamma is 51' behind bit. Survey is 61' behind bit.		
6 MD 77 INC 75 AZM 9.26 TVD 8 VS	7887 MD 89.81 INC 278.95 AZM 7450.49 TVD 697.8 VS			7937 MD 90.00 INC 278.94 AZM 7450.57 TVD 747.7 VS	7969 MD 89.75 INC 278.72 AZM 7450.64 TVD 779.7 VS	8032 MD 89.38 INC 278.21 A 7451.12 842.7 VS

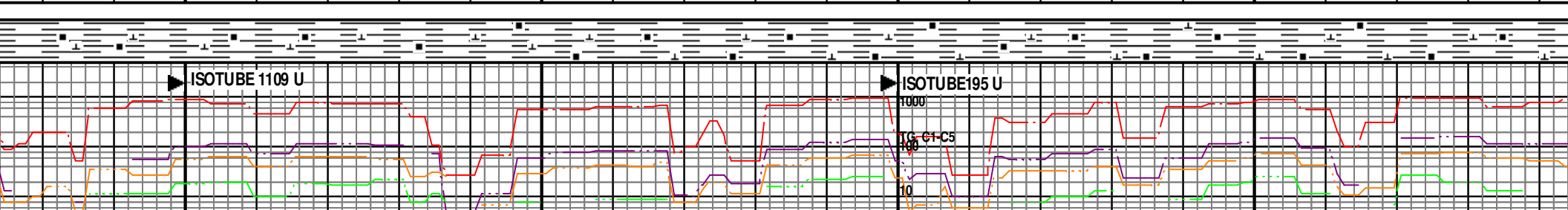




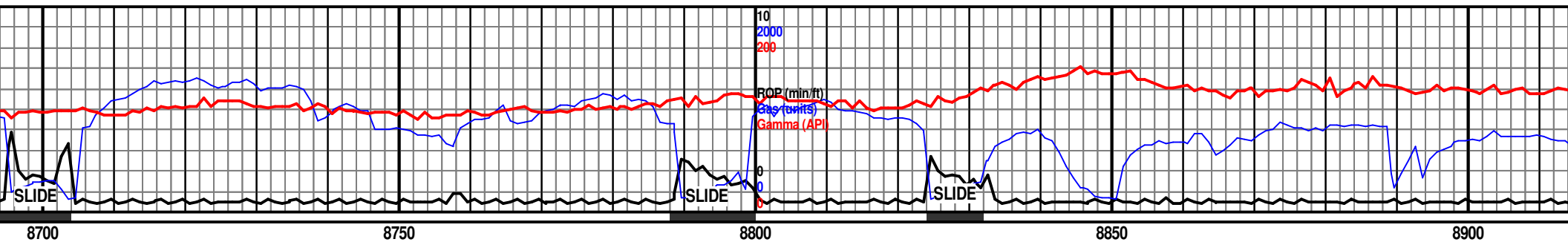




<p>8500</p> <p>SH- GY-LT GY, OCC DK GY, BLKY-PLTY, SBWXY, CARB, SL INCR IN CALC FL FRAC &amp; CALCITE, V CALC-LMY, SFT-FRM.</p>		<p>8550</p> <p>SH- GY-LT GY, OCC DK GY, BLKY-PLTY, SBWXY, CARB, CALC FL FRAC &amp; CALCITE, V CALC-LMY, SFT-FRM.</p>	<p>8600</p> <p>SH- DK GY-GY- LT GY, BLKY-PLTY, SBWXY, CARB, CALC FL FRAC &amp; CALCITE, V CALC-LMY, SFT-FRM.</p>	<p>7425 TVD</p> <p>SH- DK GY-GY- LT GY, BLKY -PLTY, SBWXY, CARB, CALC FL FRAC &amp; CALCITE, V CALC -LMY, SFT -FRM.</p>	<p>8650</p> <p>SH- DK GY- GY- LT GY, BLKY -PLTY, SBWXY, CARB, CALC FL FRAC &amp; CALCITE, V CALC -LMY, SFT -FRM.</p>	<p>SH- DK GY- GY- LT GY, BLKY -PLTY, SBWXY, CARB, CALC FL FRAC &amp; CALCITE, V CALC -LMY, SFT -FRM.</p>
		<p>WT. IN 9.2, OUT 9.1 VIS. IN 38, OUT 36</p>				
				<p>7450</p>		<p>CP#1, TARGET 8690' MD, 7450' TVD</p>
		<p>WOB. 6-9K RPM. 55 PP. 2881 SPM. 60 GPM. 270</p>				
<p>8500 MD 89.5 INC 274.08 AZM 7453.85 TVD 1317.6 VS</p>	<p>8507 MD 89.38 INC 274.67 AZM 7454.10 TVD 1317.6 VS</p>			<p>8601 MD 89.75 INC 274.22 AZM 7454.81 TVD 1411.5 VS</p>		<p>8690 MD 89.9 INC 274.42 AZM 7455.10 TVD 1500.0 VS</p>







BLKY -PLTY, L FRAC & SFT -FRM.	SH- DK GY- GY- LT GY, BLKY -PLTY, SBWXY, CARB, CALC FL FRAC & CALCITE, V CALC -LMY, SFT -FRM.	SH- DK GY- GY- LT GY, BLKY -PLTY, SBWXY, CARB, CALC FL FRAC & CALCITE, V CALC -LMY, SFT -FRM.	7425 TVD SH- DK GY- GY- LT GY, BLKY -PLTY, SBWXY, CARB, CALC FL FRAC & CALCITE, V CALC -LMY, SFT -FRM.	SH- DK GY- GY- LT GY, BLKY -PLTY, SBWXY, CARB, CALC FL FRAC & CALCITE, V CALC -LMY, SFT -FRM.	SH- DK GY- GY- LT GY, BLKY -PLTY, SBWXY, CARB, CALC FL FRAC & CALCITE, V CALC -LMY, SFT -FRM.
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WT. IN 9.2, OUT 9.0+  
VIS. IN 43, OUT 37

ET @ 1500' VS=  
49'TVD.

WT. IN 9.1, OUT 9.1+  
VIS. IN 38, OUT 37

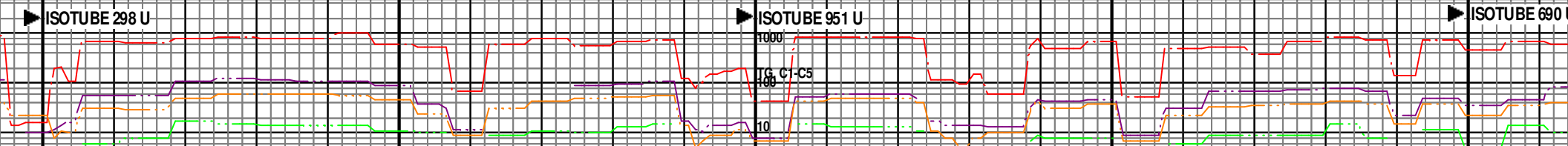
7450

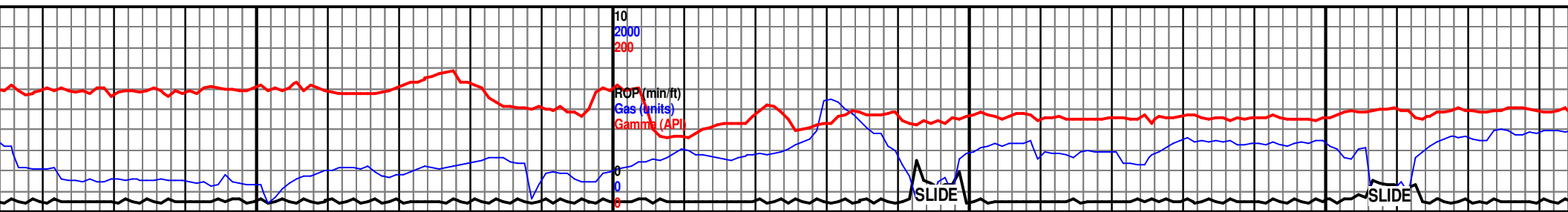
6 MD  
94 INC  
7.71 AZM  
5.07 TVD  
6.4 VS

8791 MD  
88.95 INC  
275.52 AZM  
7455.99 TVD  
1601.4 VS

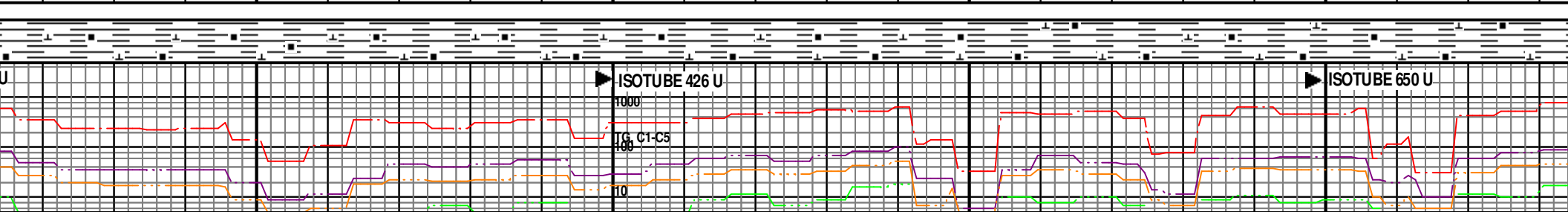
8886 MD  
89.81 INC  
275.94 AZM  
7457.01 TVD  
1696.4 VS

7475

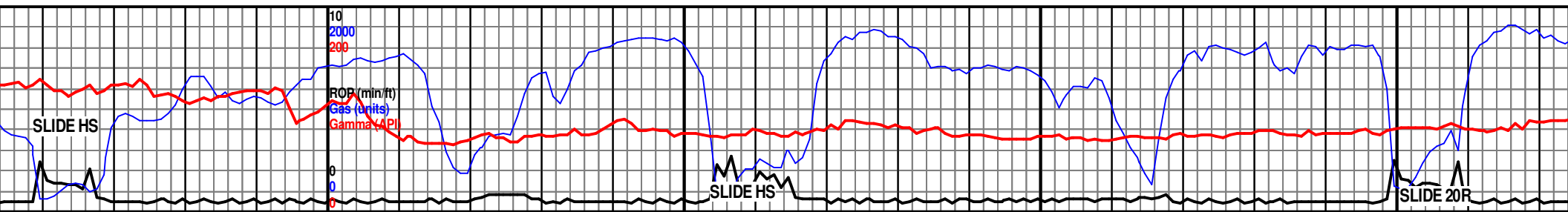




SH- DK GY- GY- LT GY, BLKY -PLTY, SBWXY, CARB W/CARB LAM, CALC FL FRAC & CALCITE, V CALC -LMY, SFT -FRM.	SH- DK GY- GY- LT GY, BLKY -PLTY, SBWXY, CARB W/CARB LAM, CALC FL FRAC & CALCITE, V CALC -LMY, SFT -FRM.	7425 TVD SH- DK GY- GY- LT GY, BLKY -PLTY, SBWXY, CARB W/CARB LAM, CALC FL FRAC & CALCITE, V CALC -LMY, SFT -FRM.	SH- DK GY- GY- LT GY, BLKY -PLTY, SBWXY, CARB W/CARB LAM, CALC FL FRAC & CALCITE, V CALC -LMY, SFT -FRM.	SH- DK GY- GY- LT GY, BLKY -PLTY, SBWXY, CARB W/CARB LAM, CALC FL FRAC & CALCITE, V CALC -LMY, SFT -FRM.	SH- DK GY- GY- LT GY, BLKY -PLTY, SBWXY, CARB W/CARB LAM, CALC FL FRAC & CALCITE, V CALC -LMY, SFT -FRM.
9/21/2013  WOB. 5-6K RPM. 55 PP. 2907 SPM. 60 GPM. 271		7450  WT. IN 9.1, OUT 9.1 VIS. IN 42, OUT 48		9076 MD 90.43 INC 277.03 AZM 7456.40 TVD 1886.4 VS	



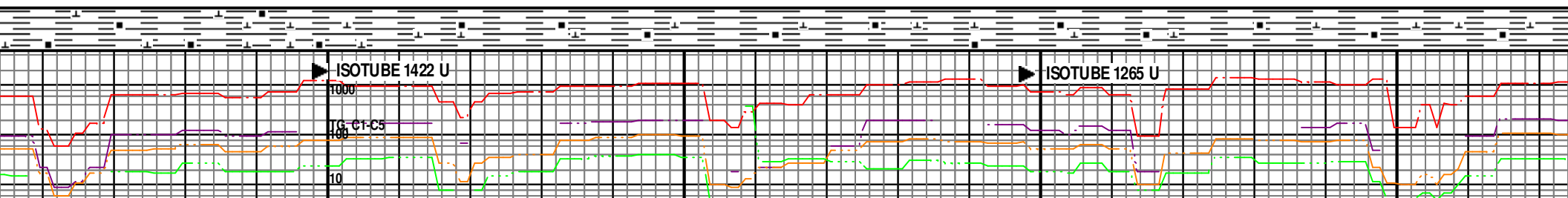




9400		9450		9500		9550	
SME DK GY, BWXY, CARB, M, CALC FL FRAC CALC-LMY,		SH- GY, LT GY, SME DK GY, BLKY-PLTY, SBWXY, CARB, ABNDT CALCITE & CALC FL FRAC, V CALC-LMY, SFT-FRM.		SH- LT GY-GY, SME DK GY, BLKY-PLTY, SBWXY, CARB, CALC FL FRAC & CALCITE, V CALC-LMY, SFT-FRM.		SH- LT GY-GY, SME DK GY, BLKY-PLTY, SBWXY, CARB, CALC FL FRAC & CALCITE, V CALC-LMY, SFT-FRM.	
SH- GY, LT GY, SME DK GY, BLKY-PLTY, SBWXY, CARB, ABNDT CALCITE & CALC FL FRAC, V CALC-LMY, SFT-FRM.		SH- GY, LT GY, SME DK GY, BLKY-PLTY, SBWXY, CARB, ABNDT CALCITE & CALC FL FRAC, V CALC-LMY, SFT-FRM.		SH- LT GY-GY, SME DK GY, BLKY-PLTY, SBWXY, CARB, CALC FL FRAC & CALCITE, V CALC-LMY, SFT-FRM.		SH- GY, LT GY, OCC DK BLKY-PLTY, SBWXY, CALCITE & CALC FL FRAC, V CALC-LMY, SFT-FRM.	
7425 TVD							
7450							
9393 MD 89.75 INC 276.43 AZM 7464.55 TVD 2203.2 VS		9456 MD 89.94 INC 276.15 AZM 7464.72 TVD 2266.2 VS		9487 MD 89.75 INC 275.98 AZM 7464.81 TVD 2297.2 VS		9551 MD 89.75 INC 275.62 AZM 7465.09 TVD 2361.2 VS	

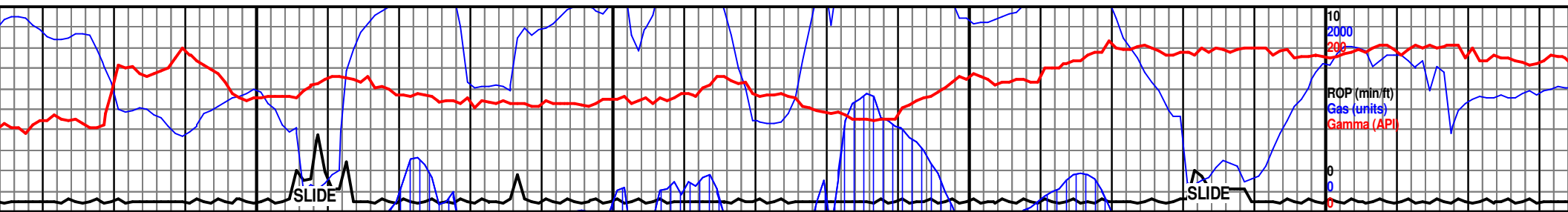
WT. IN 9  
VIS. IN 3

WOB. 5-4  
RPM. 60  
PP. 3025  
SPM. 60  
GPM. 27

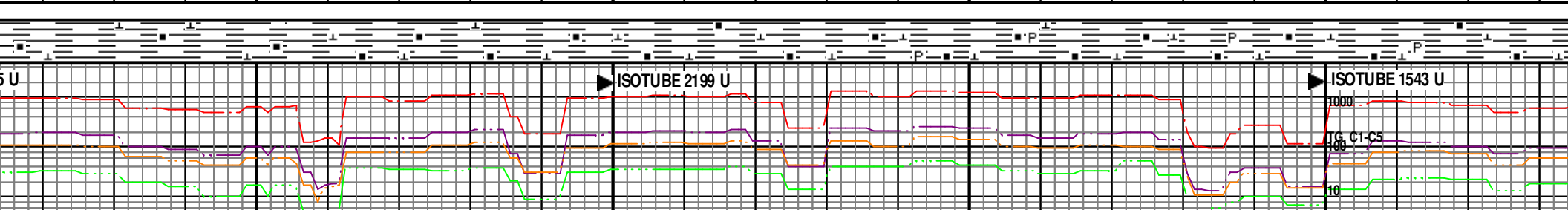


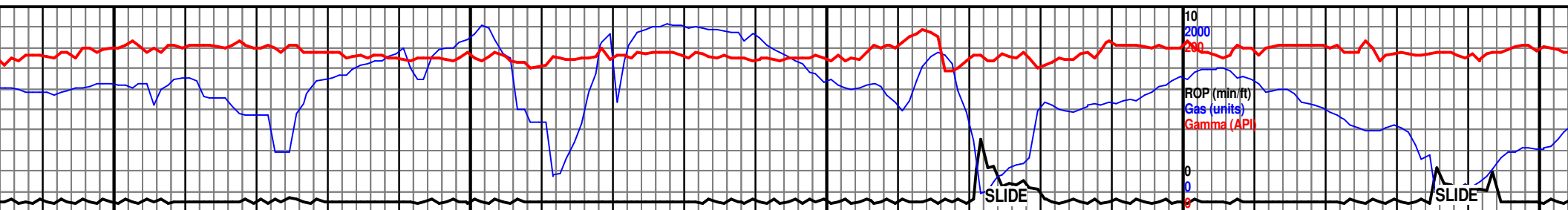




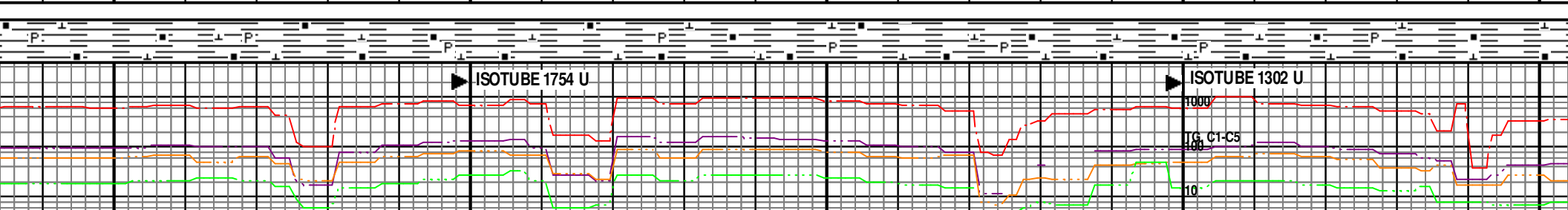


<p>GY, LT GY, BLKY-PLTY, CALC FL FRAC &amp; CALCITE, SFT-FRM.</p> <p>WT. IN 9.2, OUT 9.1 VIS. IN 39, OUT 37</p> <p>10025 MD 90.12 INC 277.02 AZM 7465.35 TVD 2835.2 VS</p>	<p>SH- M GY-DK GY, LT GY, BLKY-PLTY, CARB, SME CALC FL FRAC &amp; CALCITE, V CALC-LMY, SFT-FRM.</p>	<p>SH- M GY- DK GY, LT GY, BLKY- PLTY, CARB, CALC FL FRAC &amp; CALCITE, V CALC- LMY, SFT- FRM.</p> <p>10120 MD 89.07 INC 277.67 AZM 7466.02 TVD 2930.2 VS</p>	<p>SH- M GY- DK GY, LT GY, BLKY- PLTY, CARB, CALC FL FRAC &amp; CALCITE, V CALC- LMY, SFT- FRM, TR PYR.</p>	<p>SH- M GY- DK GY, LT GY, BLKY- PLTY, CARB, SM CALC FL FRAC &amp; CALCITE, V CALC- LMY, SFT- FRM, TR PYR.</p> <p>WT. IN 9.2, OUT 9.1 VIS. IN 38, OUT 37</p> <p>CP#4, TARGET @ 3000' VS= 10190' MD, 7470'TVD.</p> <p>X</p>	<p>SH- M GY- DK GY, LT GY, BLKY- PLTY, CARB, SM CALC FL FRAC &amp; CALC- LMY, SFT- FRM,</p> <p>10215 MD 89.32 INC 277.53 AZM 7467.35 TVD 3025.2 VS</p>
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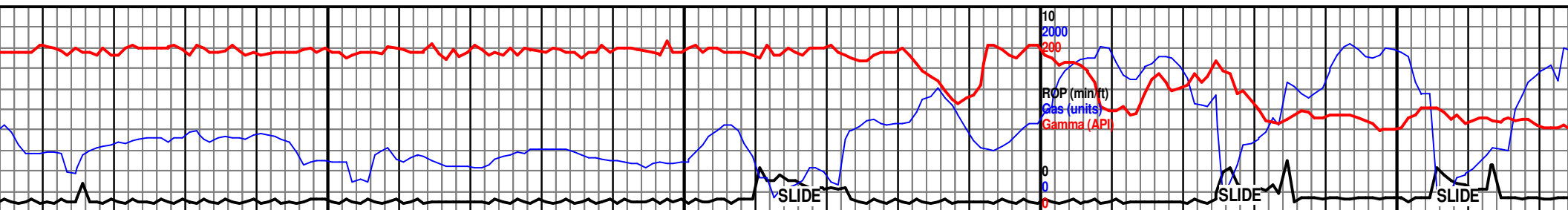




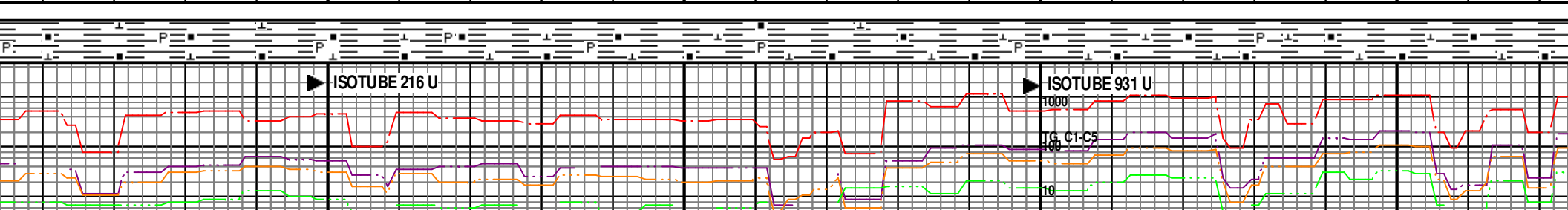
10250	10300	10350	10400	10450
GY, BLKY- PLTY, FRAC & CALCITE, V TR PYR.	SH- M GY- DK GY, LT GY, BLKY- PLTY, CARB, SM CALC FL FRAC & CALCITE, V CALC- LMY, SFT- FRM, TR PYR.	SH- DK GY- GY- LT GY, BLKY- PLTY, CARB, SM CALC FL FRAC & CALCITE, V CALC- LMY, SFT- FRM, TR PYR.	SH- DK GY- GY- LT GY, BLKY- PLTY, CARB, SM CALC FL FRAC & CALCITE, V CALC- LMY, SFT- FRM, TR PYR.	SH- DK GY- GY- LT GY, BLKY- PLTY, CARB, SM CALC FL FRAC & CALCITE, V CALC- LMY, SFT- FRM, TR PYR.
		WT. IN 9.2, OUT 9.1 VIS. IN 38, OUT 37		WT. IN 9.2, O VIS. IN 37, O
		10310 MD 89.51 INC 277.44 AZM 7468.32 TVD 3120.1 VS		10405 MD 90.19 INC 277.78 AZM 7468.57 TVD 3215.1 VS



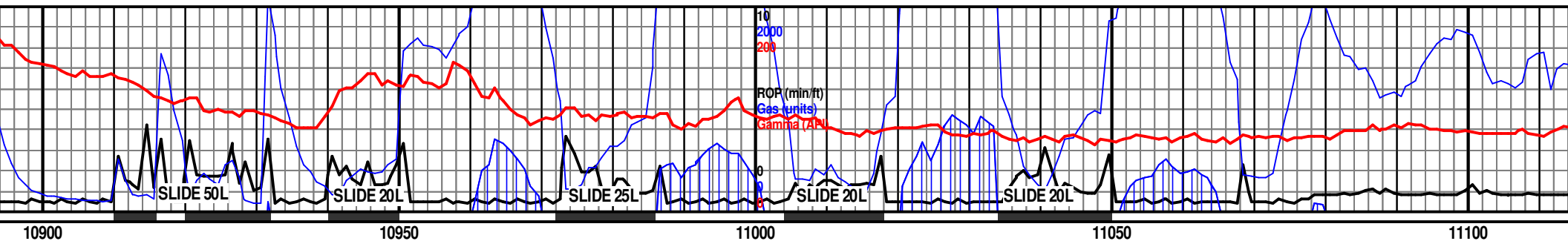




, BLKY- PLTY, FRAC & CALCITE, V , TR PYR.	SH- DK GY- GY- LT GY, BLKY- PLTY, CARB, SM CALC FL FRAC & CALCITE, V CALC- LMY, SFT- FRM, TR PYR.	SH- DK GY- GY- LT GY, BLKY- PLTY, CARB, SM CALC FL FRAC & CALCITE, V CALC- LMY, SFT- FRM, TR PYR.	SH- DK GY- GY- LT GY, BLKY- PLTY, CARB, SM CALC FL FRAC & CALCITE, V CALC- LMY, SFT- FRM, TR PYR.	SH- DK GY- GY- LT GY, BLKY- PLTY, CARB, SM CALC FL FRAC & CALCITE, V CALC- LMY, SFT- FRM, TR PYR.	SH- DK GY- GY- LT GY, BLKY- PLTY, CARB, SM CALC FL FRAC & CALCITE, V CALC- LMY, SFT- FRM, TR PYR.	SH- DK GY- GY- LT GY, BLKY- PLTY, CARB, SM CALC FL FRAC & CALCITE, V CALC- LMY, SFT- FRM, TR PYR.







DK GY, LT GY, PLTY, SBWXY, OF CALC FL FRAC & E, CARB, V LMY, SFT-FRM.	SH- GY-DK GY, LT GY, BLKY-PLTY, SBWXY, LOSS OF CALC FL FRAC & CALCITE, CARB, V CALC-LMY, SFT-FRM.	SH- GY-LT GY, DK GY, BLKY-PLTY, SBWXY, INCR CALC FL FRAC & CALCITE, CARB, V CALC-LMY, SFT-FRM.	SH- GY-LT GY, DK GY, BLKY-PLTY, SBWXY, ABNDT CALC FL FRAC & CALCITE, CARB, V CALC-LMY, SFT-FRM.	SH- GY-LT GY, DK GY, SPEC, BLKY-PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB IN PT, V CALC-LMY, SFT-FRM.	SH- GY-LT GY, DK GY, SPEC, BLKY-PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB IN PT, V CALC-LMY, SFT-FRM.	SH- GY-LT GY, DK GY, SPEC, BLKY-PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB IN PT, V CALC-LMY, SFT-FRM.
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WT. IN 9.2, OUT 9.1+  
VIS. IN 41, OUT 40

WOB. 5-7K  
RPM. 65  
PP. 3284  
SPM. 60  
GPM. 270

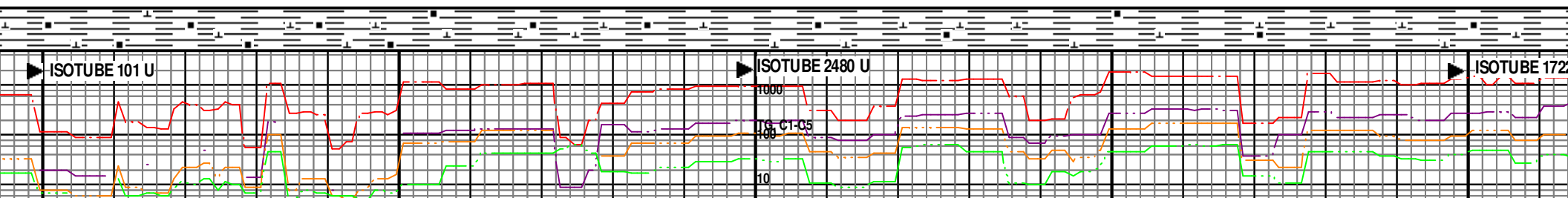
10912 MD  
87.71 INC  
277.34 AZM  
7482.25 TVD  
3721.5 VS

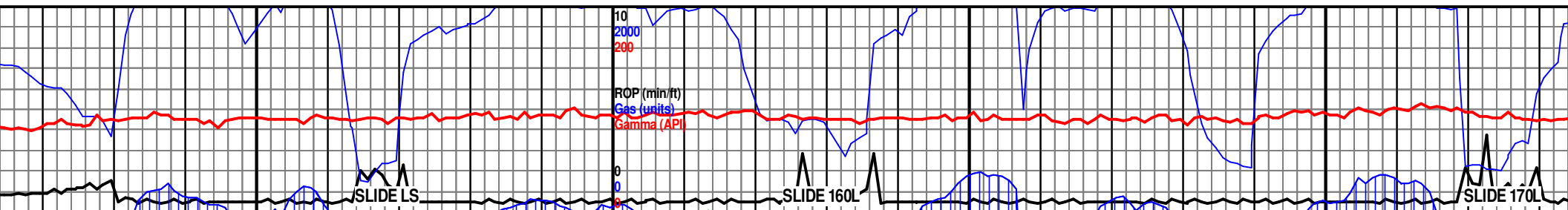
10943 MD  
88.27 INC  
276.50 AZM  
7483.34 TVD  
3752.5 VS

10975 MD  
88.52 INC  
276.38 AZM  
7484.24 TVD  
3784.5 VS

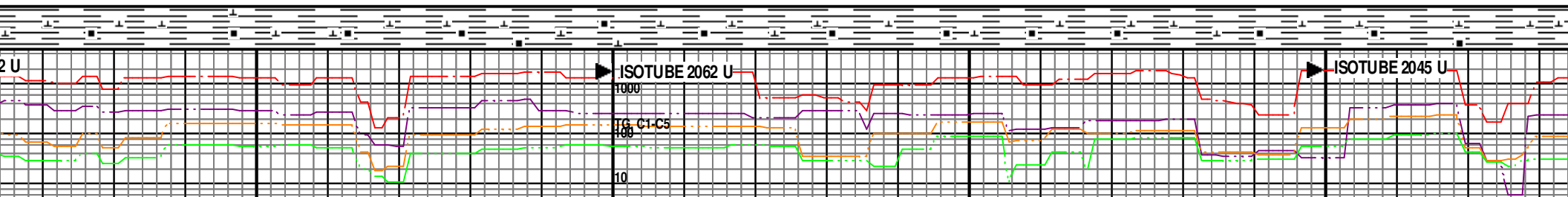
11006 MD  
89.20 INC  
276.02 AZM  
7484.85 TVD  
3815.5 VS

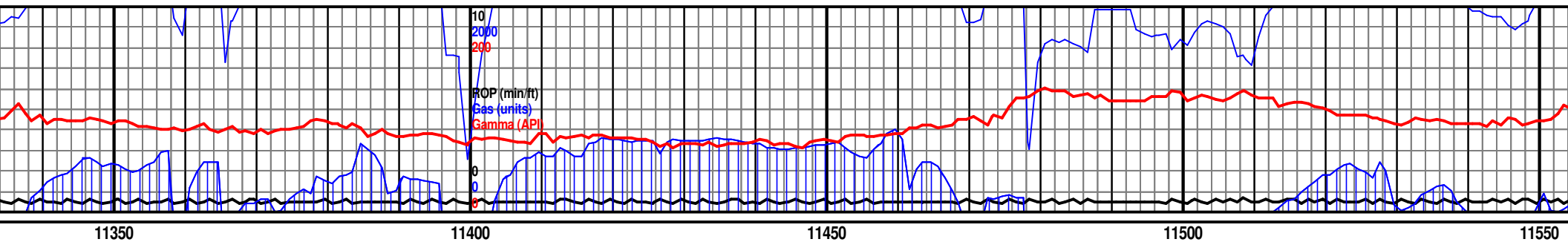
11101 MD  
90.93 INC  
275.97 AZM  
7484.75 TVD  
3910.4 VS





T GY, DK GY, BLKY-PLTY, LOTS CALC FL CALCITE, CARB CALC-LMY,	SH- GY-LT GY, DK GY, SPEC, BLKY-PLTY, SBWXY, ABNDT CALC FL FRAC & CALCITE, CARB IN PT, V CALC-LMY, SFT-FRM.	SH- LT GY-GY, SME DK GY, BLKY-PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, V CALC-LMY, SFT-FRM.	SH- LT GY-GY, SME DK GY, BLKY-PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, V CALC-LMY, SFT-FRM.	SH- LT GY-GY, SME DK GY, BLKY-PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, V CALC-LMY, SFT-FRM.	SH- LT GY-GY, SME DK GY, BLKY-PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, V CALC-LMY, SFT-FRM.
		CP#6, TARGET @ 4000' VS= 11190' MD, 7485'TVD.			
		X			
		7465 TVD			
		7490			
	11165 MD 90.99 INC 276.20 AZM 7483.67 TVD 3974.4 VS			11260 MD 89.57 INC 275.83 AZM 7483.21 TVD 4069.4 VS	
		7515			





SH- LT GY-GY, SME DK GY,  
BLKY-PLTY, SBWXY, CALC FL FRAC &  
CALCITE, CARB, V CALC-LMY,  
SFT-FRM.

SH- LT GY-GY, SME DK GY, BLKY-PLTY,  
SBWXY, CALC FL FRAC & CALCITE,  
CARB, V CALC-LMY, SFT-FRM.

SH- LT GY- GY, SME DK GY, BLKY- PLTY,  
SBWXY, CALC FL FRAC & CALCITE, CARB,  
V CALC- LMY, SFT- FRM.

SH- LT GY- GY, SME DK GY, BLKY- PLTY,  
SBWXY, CALC FL FRAC & CALCITE, CARB,  
V CALC- LMY, SFT- FRM.

SH- LT GY- GY, SME DK GY,  
BLKY- PLTY, SBWXY, CALC  
FRAC & CALCITE, CARB, V  
LMY, SFT- FRM.

WT. IN 9.2, OUT 9.1  
VIS. IN 42, OUT 46

WT. IN 9.2, OUT 9.1  
VIS. IN 42, OUT 46

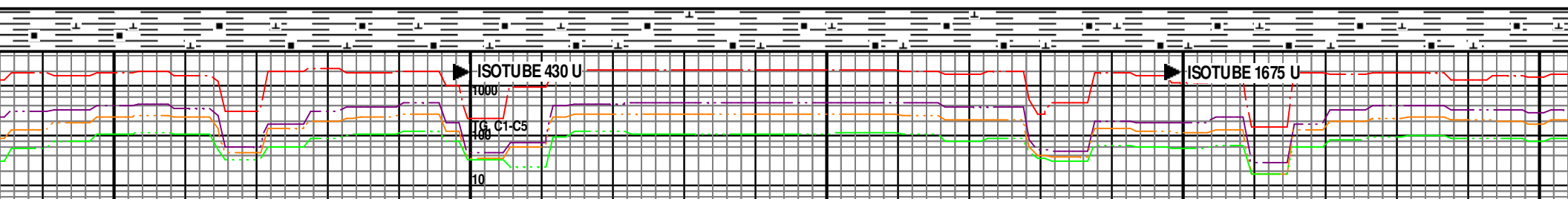
7490

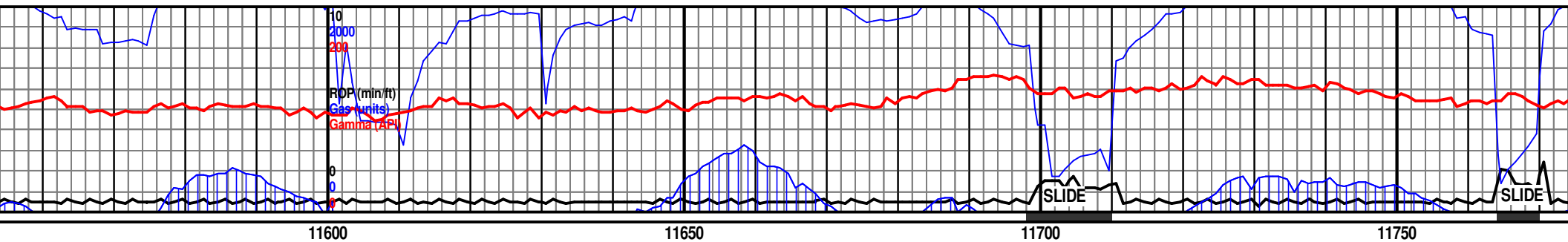
11355 MD  
88.27 INC  
275.81 AZM  
7485.00 TVD  
4164.4 VS

11449 MD  
88.33 INC  
276.04 AZM  
7487.79 TVD  
4258.3 VS

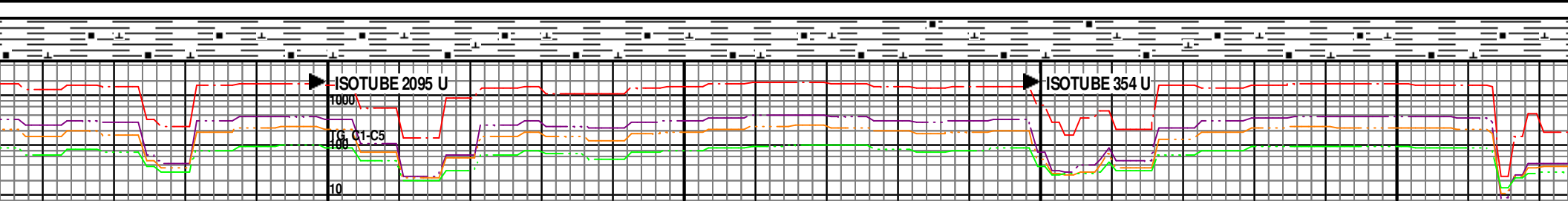
11544 MD  
88.33 INC  
276.11 AZM  
7490.56 TVD  
4353.3 VS

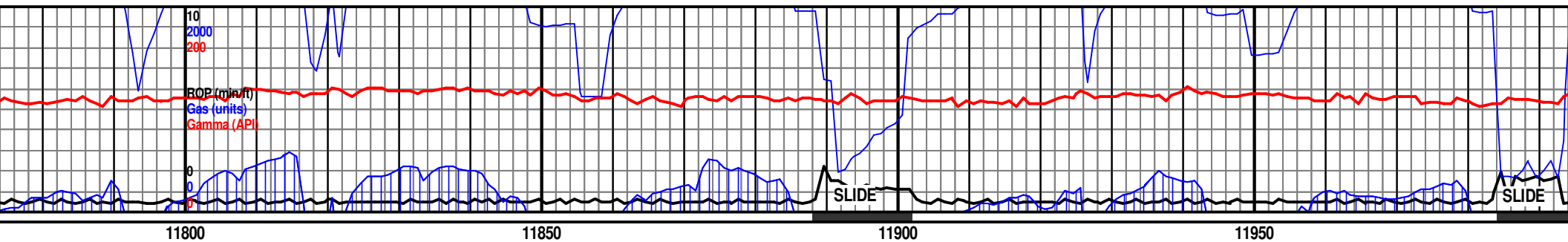
7515



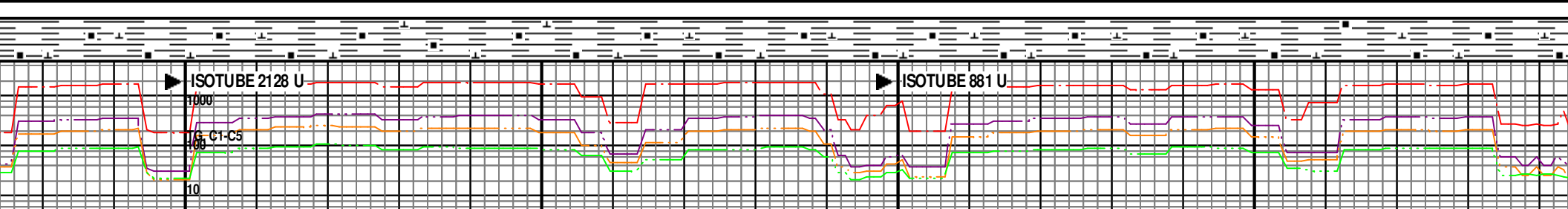


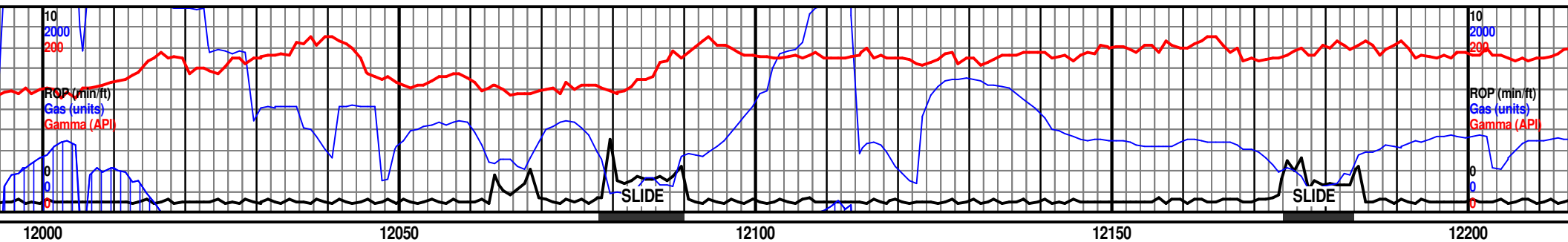
C FL CALC-	SH- LT GY- GY, SME DK GY, BLKY- PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, V CALC- LMY, SFT- FRM.	SH- LT GY- GY, SME DK GY, BLKY- PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, V CALC- LMY, SFT- FRM.	SH- LT GY- GY, SME DK GY, BLKY- PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, V CALC- LMY, SFT- FRM.	SH- LT GY- GY, SME DK GY, BLKY- PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, V CALC- LMY, SFT- FRM.	SH- LT GY- GY, SME D SBWXY, CALC FL FRA V CALC- LMY, SFT- FF
UT 9.1 UT 45				WT. IN 9.2, OUT 9.1 VIS. IN 41, OUT 42	9/2
	7465 TVD		CP#7, TARGET @ 4500' VS= 11690' MD, 7495'TVD.		WOB RPM PP. SPM GPM
	7515	11639 MD 88.09 INC 276.45 AZM 7493.53 TVD 4448.3 VS		11734 MD 88.70 INC 276.29 AZM 7496.19 TVD 4543.2 VS	





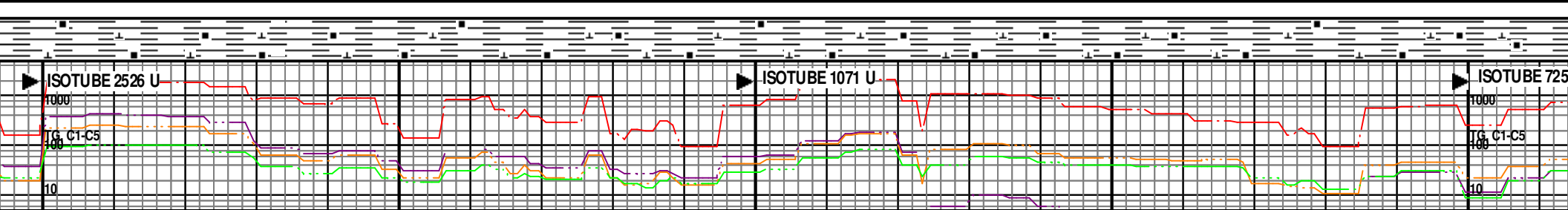
SH- LT GY- GY, SME DK GY, BLKY- PLTY, AC & CALCITE, CARB, FRM.	7465 TVD SH- LT GY- GY, SME DK GY, BLKY- PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, V CALC- LMY, SFT- FRM.	SH- LT GY- GY, SME DK GY, BLKY- PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, V CALC- LMY, SFT- FRM.	SH- LT GY- GY, SME DK GY, BLKY- PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, V CALC- LMY, SFT- FRM.	SH- LT GY- GY, SME DK GY, BLKY- PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, V CALC- LMY, SFT- FRM.	SH- LT GY- GY, SME DK GY, BLKY- PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, V CALC- LMY, SFT- FRM.
23/2013  B. 5-7K I. 65 3379 I. 60 I. 271		WT. IN 9.2, OUT 9.1 VIS. IN 41, OUT 43			
	7490  11798 MD 88.89 INC 275.99 AZM 7497.53 TVD 4607.2 VS <sub>5</sub>	11829 MD 88.39 INC 276.01 AZM 7498.27 TVD 4638.2 VS		11924 MD 89.57 INC 275.90 AZM 7499.96 TVD 4733.2 VS	



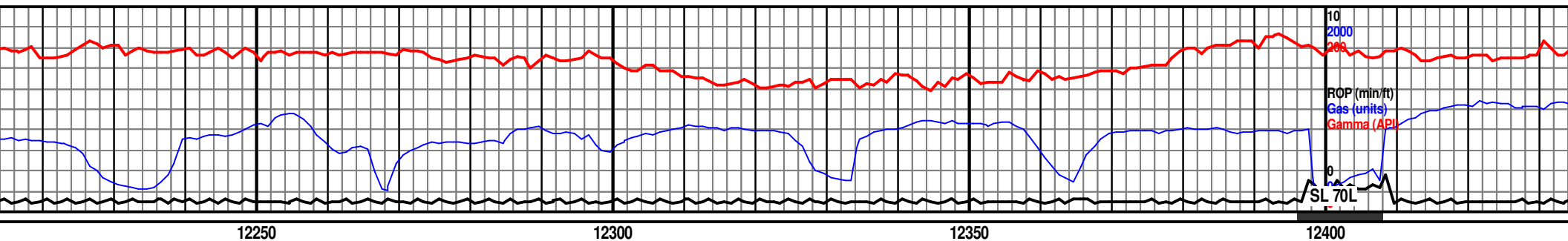


7465 TVD GY, SME DK GY, BLKY- XY, CALC FL FRAC & ARB, V CALC- LMY, SFT-	SH- LT GY- GY, SME DK GY, BLKY- PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, V CALC- LMY, SFT- FRM.	SH- LT GY- GY, SME DK GY, BLKY- PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, V CALC- LMY, SFT- FRM.	SH- GY-LT GY, SME DK GY, BLKY-PLTY, SBWXY, CARB, SME CALC FL FRAC & CALCITE, V CALC-LMY, SFT-FRM.	SH- GY-LT GY, SME DK GY, BLKY-PLTY, SBWXY, CARB, DECR CALC FL FRAC & CALCITE, V CALC-LMY, SFT-FRM.	7465 TVD SH- GY-LT GY, DK GY, BLKY-PLTY, SBWXY, CARB, CALC FL FRAC & CALCITE, V CALC-LMY, SFT-FRM.
	WT. IN 9.2+, OUT 9.1 VIS. IN 40, OUT 40		WT. 9.30, VIS. 41, PV. 17, YP. 19, WL. 4.4, FC. 2/32, CORR. SLDS. 5.7, MBT. 7.5, pH. 8.6, CL. 2300, LGS/HGS. 4.0/1.7%.		
12019 MD 88.21 INC 276.28 AZM 7501.80 TVD 4828.1 VS			12114 MD 88.64 INC 276.40 AZM 7504.41 TVD 4923.1 VS		12209 MD 89.01 INC 276.83 A 7506.41 5018.1 V

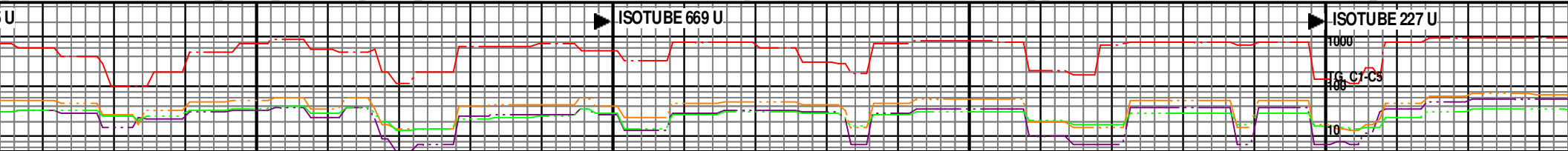
CP#8, TARGET @ 5000' VS=  
12190' MD, 7503' TVD.  
X

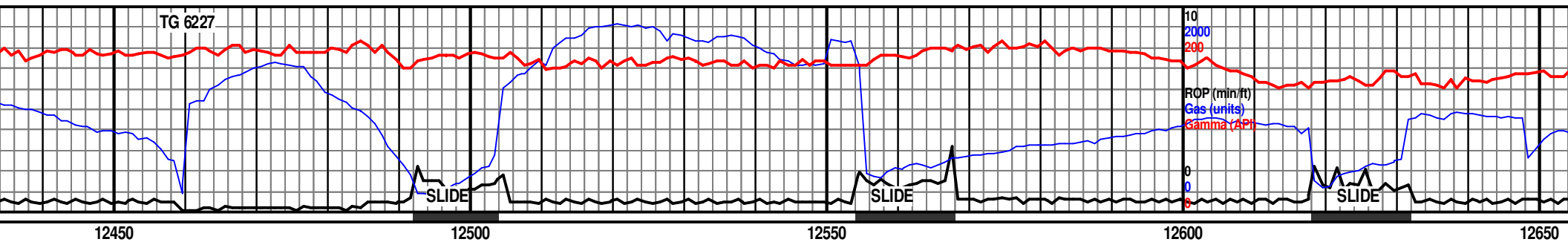






SH- GY-LT GY, DK GY, BLKY-PLTY, SBWXY, CARB, SME CALC FL FRAC & CALCITE, V CALC-LMY, SFT-FRM.	SH- GY-LT GY, DK GY, BLKY-PLTY, SBWXY, CARB, SME CALC FL FRAC & CALCITE, V CALC-LMY, SFT-FRM.	SH- GY-LT GY, DK GY, BLKY-PLTY, SBWXY, CARB, SME CALC FL FRAC & CALCITE, V CALC-LMY, SFT-FRM.	SH- GY-LT GY, DK GY, BLKY-PLTY, SBWXY, CARB, LTL CALC FL FRAC & CALCITE, V CALC-LMY, SFT-FRM.	SH- DK GY-GY, LT GY, BLKY-PLTY, SBWXY, CARB, LTL CALC FL FRAC & CALCITE, V CALC-LMY, SFT-FRM.
		<p>WT. IN 9.3, OUT 9.2+ VIS. IN 43, OUT 42</p> <p>WOB. 4-6K RPM. 65 PP. 3561 SPM. 60 GPM. 270</p>		
	12272 MD 88.83 INC 276.83 AZM 7507.59 TVD 5081.1 VS	12304 MD 88.89 INC 276.90 AZM 7508.23 TVD 5113.1 VS	12335 MD 89.14 INC 277.03 AZM 7508.76 TVD 5144.1 VS	12398 MD 89.38 INC 276.72 AZM 7509.58 TVD 5207.1 VS





SH- DK GY- GY- LT GY, BLKY- PLTY, SBWXY, CARB, CALC FL FRAC & CALCITE, V CALC- LMY, SFT- FRM.

SH- DK GY- GY- LT GY, BLKY- PLTY, SBWXY, CARB, CALC FL FRAC & CALCITE, V CALC- LMY, SFT- FRM.

SH- DK GY- GY- LT GY, BLKY- PLTY, SBWXY, CARB, CALC FL FRAC & CALCITE, V CALC- LMY, SFT- FRM.

SH- DK GY- GY- LT GY, BLKY- PLTY, SBWXY, CARB, CALC FL FRAC & CALCITE, V CALC- LMY, SFT- FRM.

SH- DK GY- GY- LT GY, BLKY- PLTY, SBWXY, CARB, CALC FL FRAC & CALCITE, V CALC- LMY, SFT- FRM.

TRIP FOR NEW BHA CONFIGURATION AT 12460'.

WT. IN 9.2+, OUT 9.0+  
VIS. IN 44, OUT 49

WT. IN 9.3, OUT 9.2  
VIS. IN 41, OUT 41

12493 MD  
89.44 INC  
278.36 AZM  
7510.56 TVD  
5302.0 VS

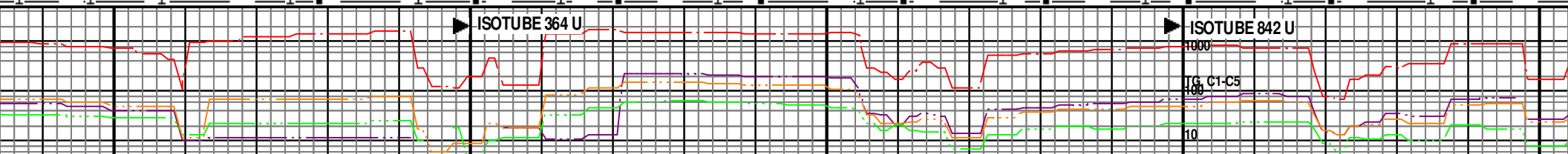
12588 MD  
88.27 INC  
276.79 AZM  
7512.45 TVD  
5397.0 VS

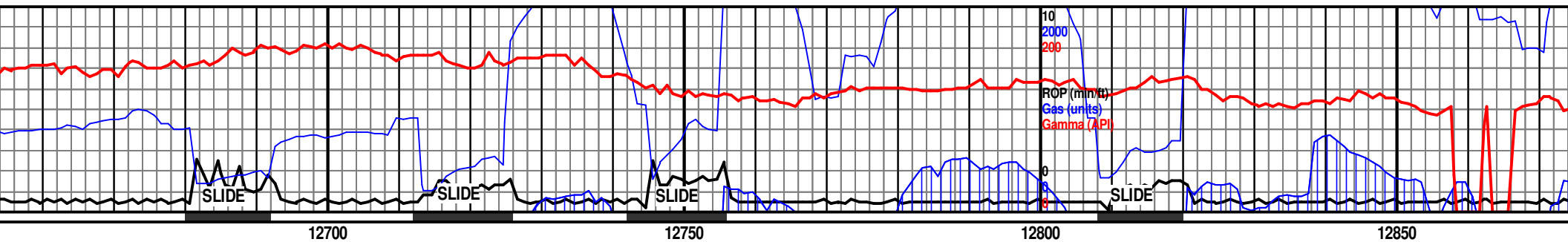
12620 MD  
88.83 INC  
276.47 AZM  
7513.26 TVD  
5429.0 VS

7465 TVD

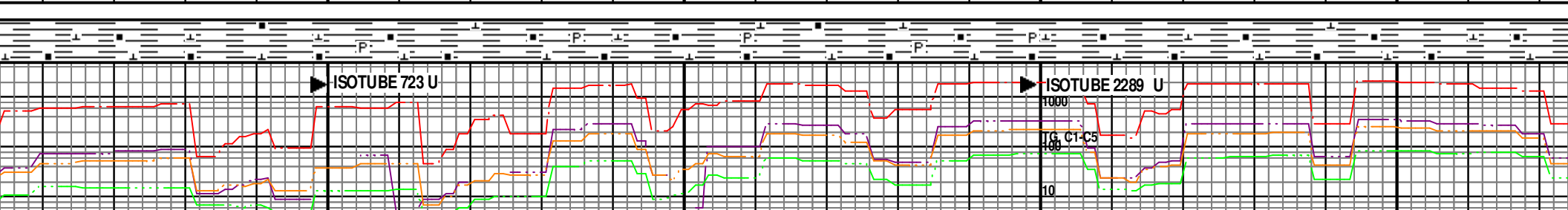
7490

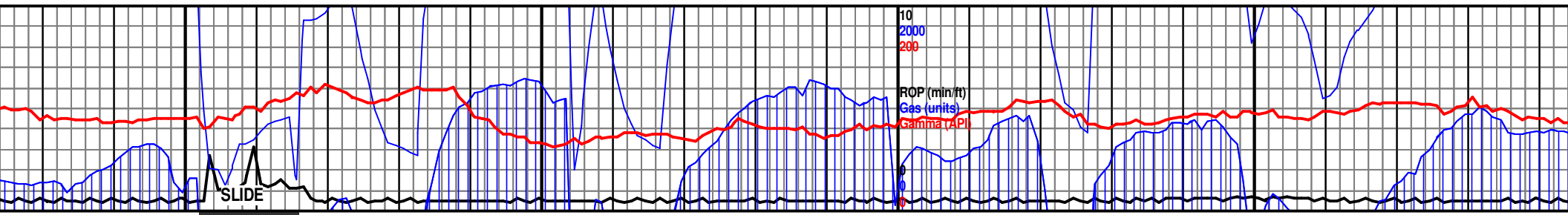
7515



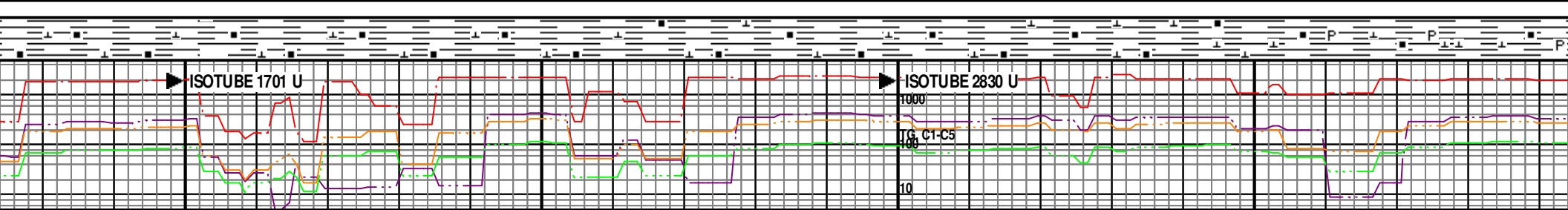


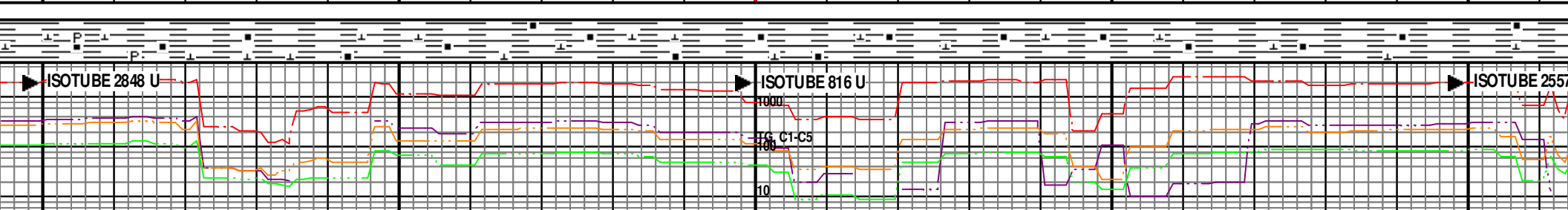
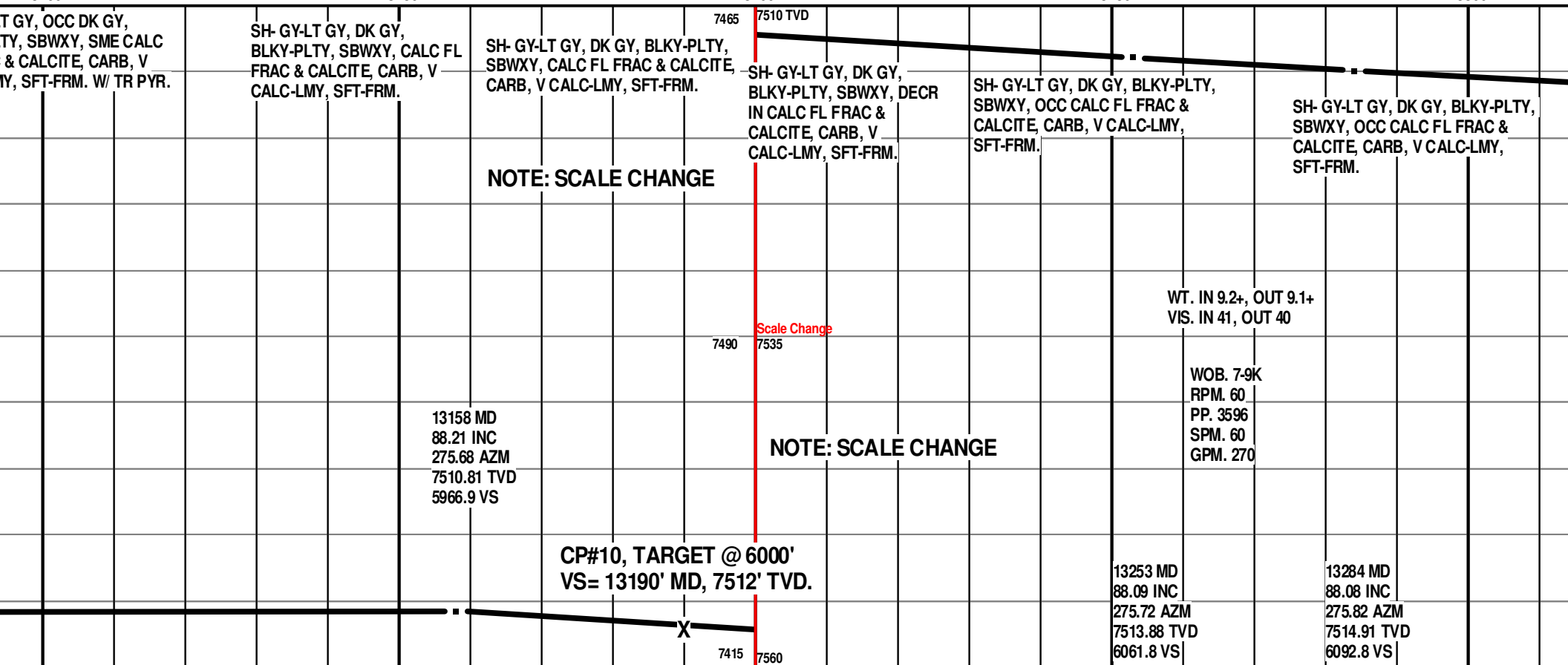
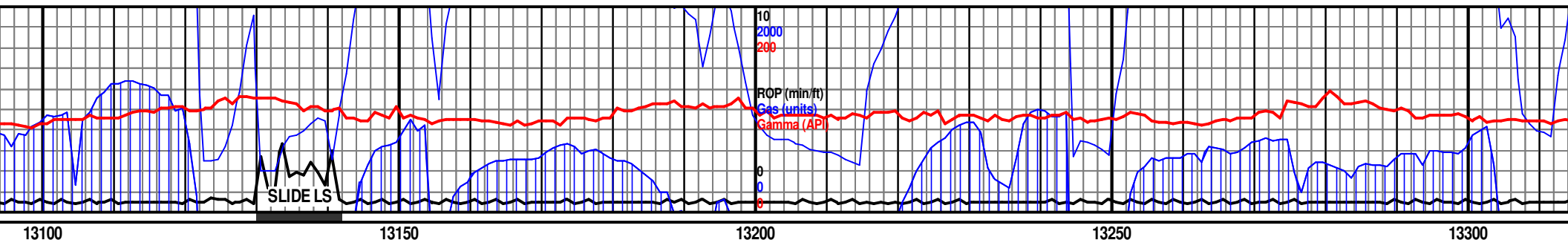
Y, SH- DK GY- GY- LT GY, BLKY- PLTY, SBWXY, CARB, CALC FL FRAC & CALCITE, V CALC- LMY, SFT- FRM.	SH- DK GY- GY- LT GY, BLKY- PLTY, SBWXY, CARB, CALC FL FRAC & CALCITE, V CALC- LMY, SFT- FRM, TR PYR.	SH- DK GY- GY- LT GY, BLKY- PLTY, SBWXY, CARB, CALC FL FRAC & CALCITE, V CALC- LMY, SFT- FRM, TR PYR.	7465 TVD SH- DK GY- GY- LT GY, BLKY- PLTY, SBWXY, CARB, CALC FL FRAC & CALCITE, V CALC- LMY, SFT- FRM.	SH- DK GY- GY- LT GY, BLKY- SBWXY, CARB, CALC FL FRAC & CALCITE, V CALC- LMY, SFT-
9/24/2013				
WOB. 8-9K RPM. 60 PP. 3570 SPM. 60 GPM. 271		WT. IN 9.2, OUT 9.2 VIS. IN 41, OUT 41		
12683 MD 89.51 INC 276.13 AZM 7514.18 TVD 5492.0 VS		12747 MD 90.25 INC 275.46 AZM 7514.31 TVD 5556.0 VS	12778 MD 90.43 INC 275.17 AZM 7514.13 TVD 5587.0 VS	12810 MD 90.86 INC 275.31 AZM 7513.77 TVD 5618.9 VS
CP#9, TARGET @ 5500' VS= 12690' MD, 7508' TVD.			12842 MD 90.80 INC 275.52 AZM 7513.30 TVD 5650.9 VS	12873 90.68 275.58 7512.9 5681.9
X				

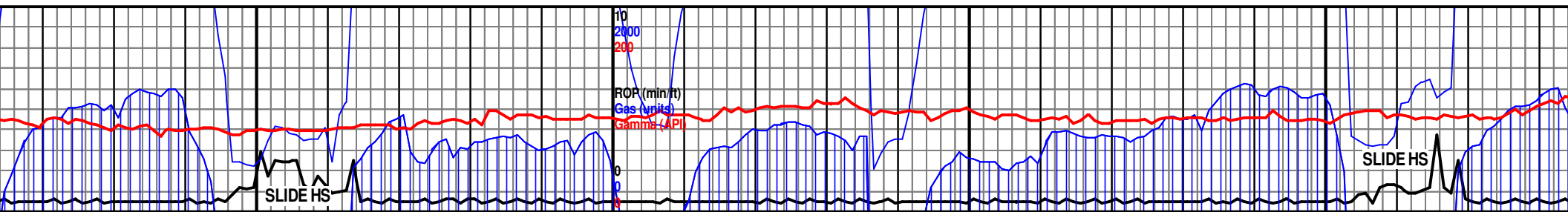




PLTY, C & FRM.	SH- GY-LT GY, OCC DK GY, BLKY-PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, V CALC-LMY, SFT-FRM.	SH- GY-LT GY, OCC DK GY, BLKY-PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, V CALC-LMY, SFT-FRM.	SH- GY-LT GY, OCC DK GY, BLKY-PLTY, SBWXY, SL DECR IN CALC FL FRAC & CALCITE, CARB, V CALC-LMY, SFT-FRM.	SH- GY-LT GY, OCC DK GY, BLKY-PLTY, SBWXY, SME CALC FL FRAC & CALCITE, CARB, V CALC-LMY, SFT-FRM.	SH- GY-L BLKY-PL FL FRAC CALC-LM
	WT. IN 9.2, OUT 9.1 VIS. IN 46, OUT 46				
	WT. 9.25, VIS. 46, PV. 18, YP. 18, WL. 4.2, FC. 2/32, CORR. SLDS. 5.7, MBT. 7.5, pH. 9.9, CL. 2600, LGS/HGS. 4.3/1.4%.				
MD INC AZM 0 TVD VS		12968 MD 91.05 INC 275.72 AZM 7511.47 TVD 5776.9 VS	13000 MD 90.80 INC 275.60 AZM 7510.95 TVD 5808.9 VS		

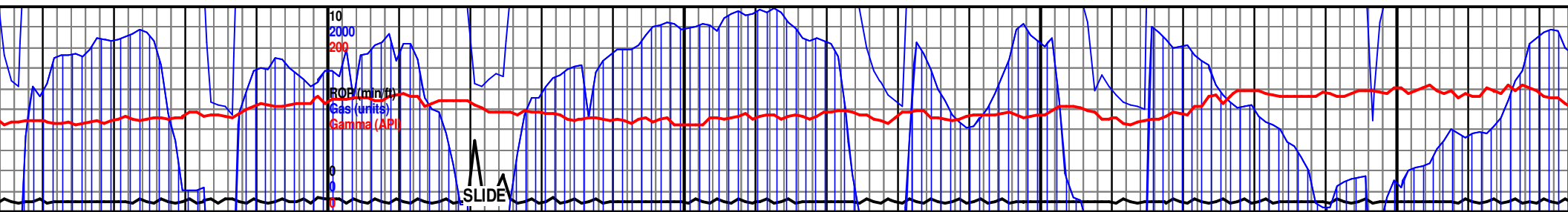




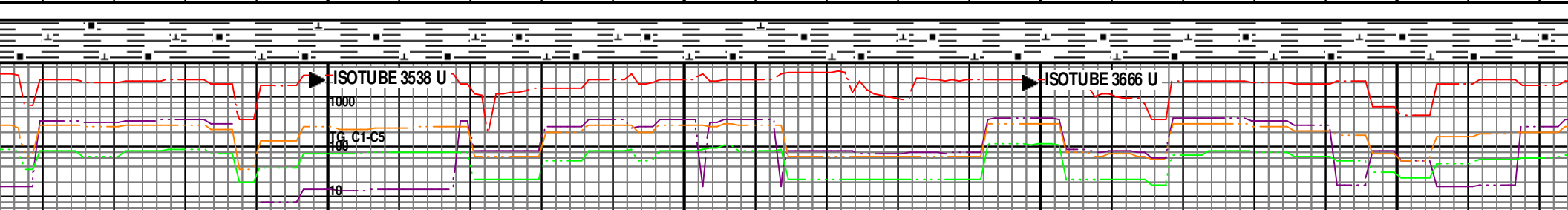


13350				13400				13450				13500							
							7510 TVD		SH- LT GY-GY, SME DK GY, BLKY-PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, V CALC-LMY, SFT-FRM.						SH-GY-DK GY, LT GY, BLKY-PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, V CALC-LMY, SFT-FRM.				SH-GY-DK GY, LT GY, BLKY-PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, V CALC-LMY, SFT-FRM.
SH- GY-LT GY, DK GY, BLKY-PLTY, SBWXY, SL INCR CALC FL FRAC & CALCITE, CARB, V CALC-LMY, SFT-FRM.				SH- LT GY-GY, SME DK GY, BLKY-PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, V CALC-LMY, SFT-FRM.				SH- LT GY-GY, SME DK GY, BLKY-PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, V CALC-LMY, SFT-FRM.				WT. IN 9.2+, OUT 9.1+ VIS. IN 41, OUT 40							
							7535												

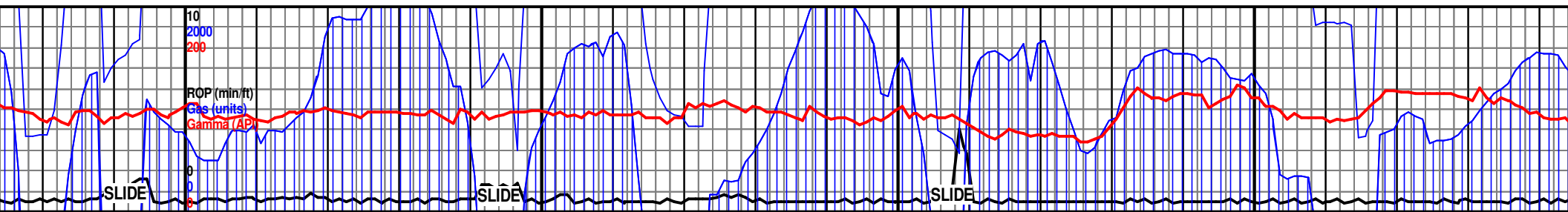




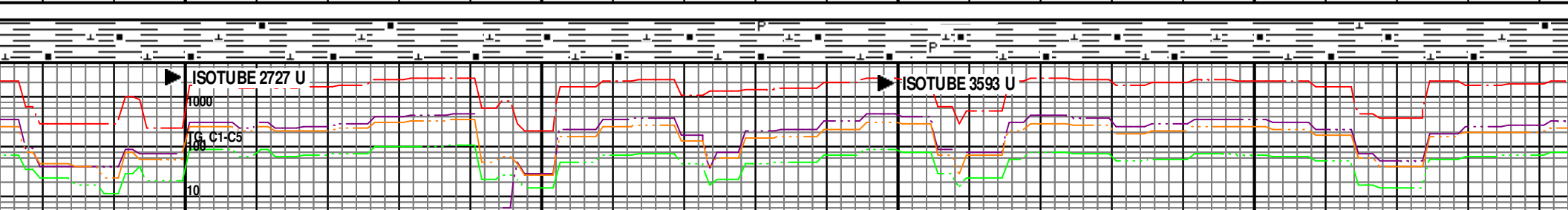
13800	13850	13900	13950
BLKY- PLTY, & CALCITE, - FRM.	SH- DK GY- GY, LT GY, BLKY- PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, CALC- LMY, SFT- FRM.	SH- DK GY- GY, LT GY, BLKY- PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, CALC- LMY, SFT- FRM.	SH- DK GY- GY, LT GY, BLKY- PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, CALC- LMY, SFT- FRM.
<p>WT. IN 9.2+, OUT 9.1 VIS. IN 41, OUT 41</p>	<p>13822 MD 90.62 INC 276.57 AZM 7520.40 TVD 6630.7 VS</p>		<p>13917 MD 90.12 INC 276.57 AZM 7519.79 TVD 6725.7 VS</p>

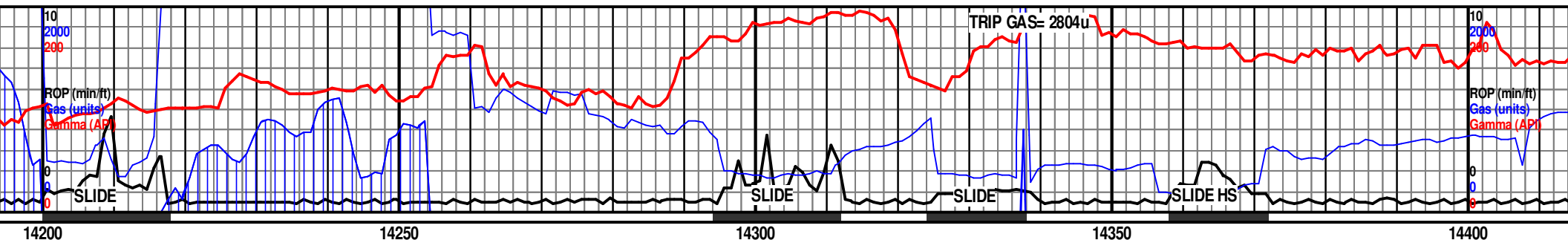




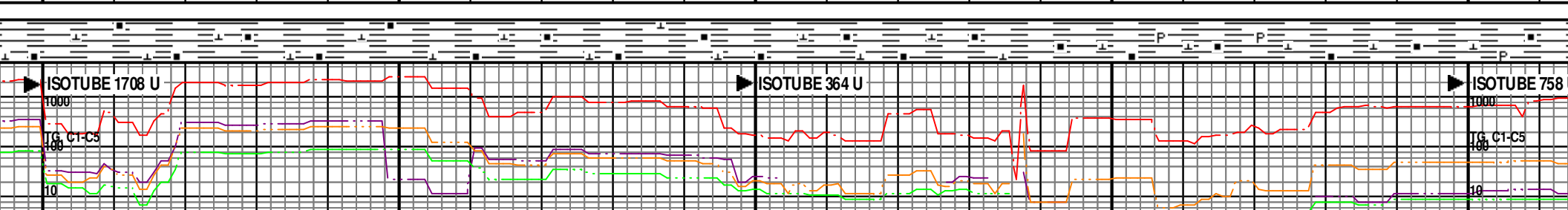


BLKY- PLTY, & CALCITE, - FRM.	SH- DK GY- GY, LT GY, BLKY- PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, CALC- LMY, SFT- FRM. (CUTTINGS MUCH FINER).	SH- DK GY- GY, LT GY, BLKY- PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, CALC- LMY, SFT- FRM.	SH- DK GY- GY, LT GY, BLKY- PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, CALC- LMY, SFT- FRM, TR PYR.	SH- DK GY- GY, LT GY, BLKY- PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, CALC- LMY, SFT- FRM.	SH- DK GY- GY, LT GY, BLKY- PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, CALC- LMY, SFT- FRM.
		9/25/2013			X
WT 9.1+ 40		WOB. 6-7K RPM. 60 PP. 3667 SPM. 60 GPM. 270		WT. IN 9.2+, OUT 9.1+ VIS. IN 41, OUT 40	CP#12, TARGET VS= 14190' MD,
	7510 TVD				
	7535				
	14012 MD 89.75 INC 277.22 AZM 7519.90 TVD 6820.7 VS			14107 MD 88.46 INC 278.00 AZM 7521.38 TVD 6915.6 VS	
	7560				

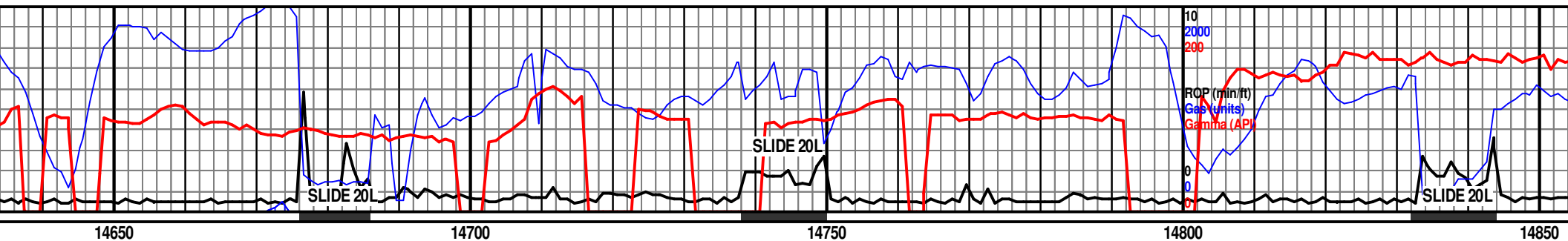




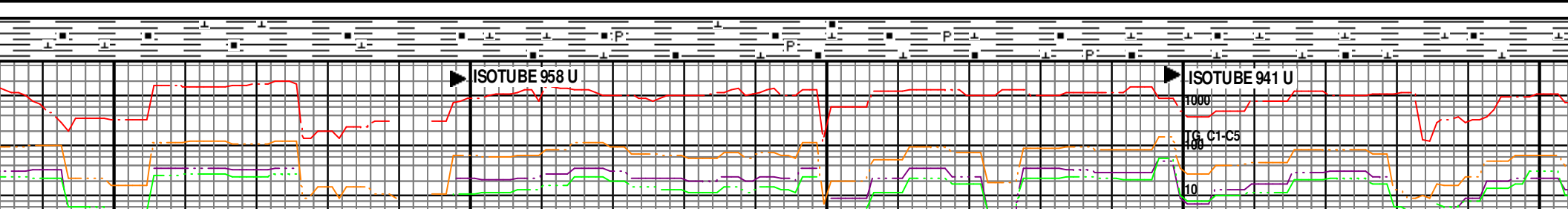
14200	14250	14300	14350	14400
7510 TVD SH- DK GY- GY, LT GY, BLKY- PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, CALC- LMY, SFT- FRM.	SH- DK GY- GY, LT GY, BLKY- PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, CALC- LMY, SFT- FRM.	SH- DK GY- GY, LT GY, BLKY- PLTY, SBWXY, CALC FL FRAC & CALCITE, CARB, CALC- LMY, SFT- FRM.	SH- DK GY- GY, LT GY, BLKY- PLTY, SBWXY, CARB & CALCITE, CARB, V CALC- LMY, MOD FRM- FRM.	7510 TVD SH- DK GY- GY, LT GY, SBWXY, CARB & INCR CALC- LMY, SFT- FRM
	WT. 9.30, VIS. 42, PV. 15, YP. 20, WL. 4.0, FC. 2/32, CORR. SLDS. 5.7, MBT. 7.5, pH. 8.2, CL. 2400, LGS/HGS. 6.0/.7%.		9/26/2013 WT. 9.50, VIS. 39, PV. 14, YP. 14, WL. 4.2, FC. 2/32, CORR. SLDS. 6.7, MBT. 7.5, pH. 7.8, CL. 2300, LGS/HGS. 4.4/2.3%.	
@ 7000' 7525' TVD.			TRIP OUT TWICE TO SHOE TO REPAIR MUD LINE, AT 14338' @ 7:00AM & 7:00 PM	
7535	WT. IN 9.2+, OUT 9.2 VIS. IN 41, OUT 40			7535 WT. IN 9.3+, VIS. IN 39, O
14202 MD 88.27 INC 278.62 AZM 7524.09 TVD 7010.5 VS		14297 MD 87.90 INC 279.02 AZM 7527.27 TVD 7105.4 VS	14360 MD 88.27 INC 278.86 AZM 7529.37 TVD 7168.3 VS	7560

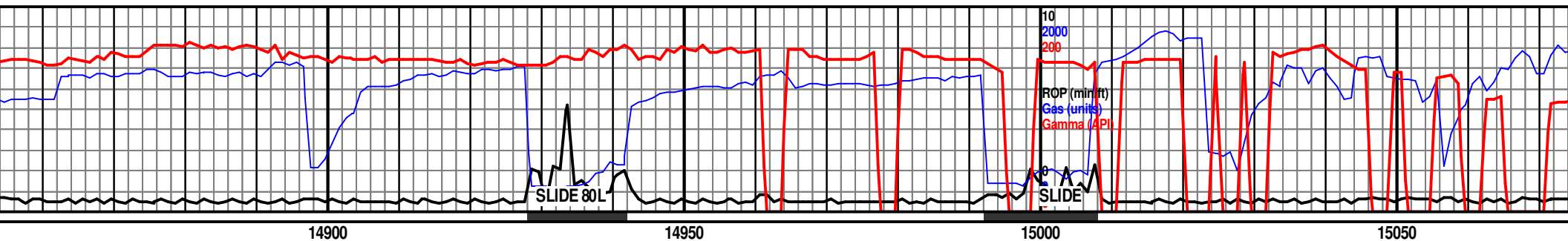




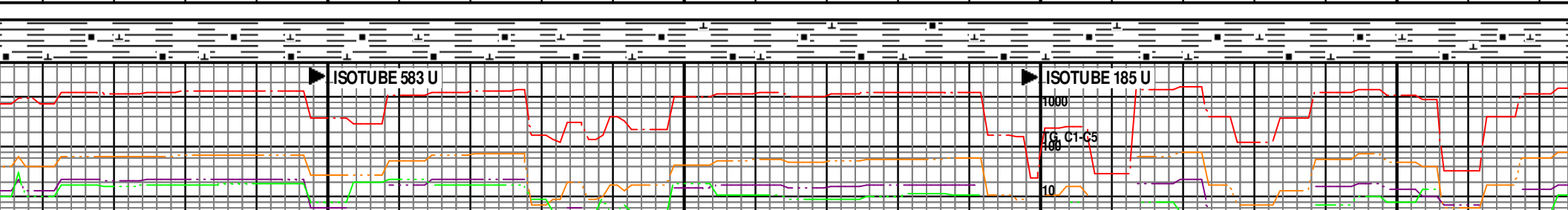


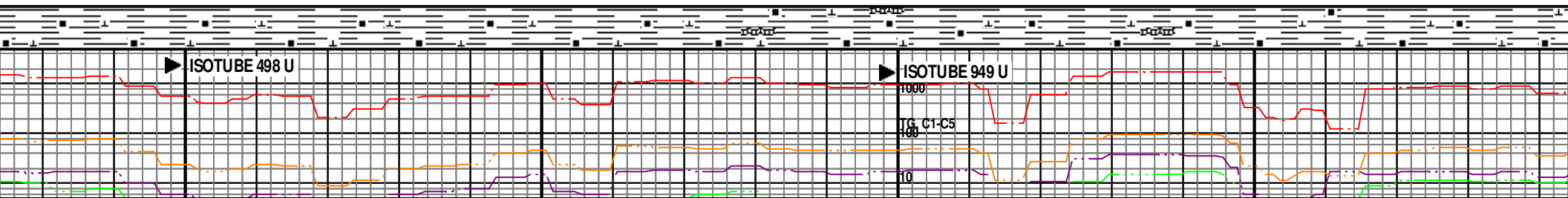
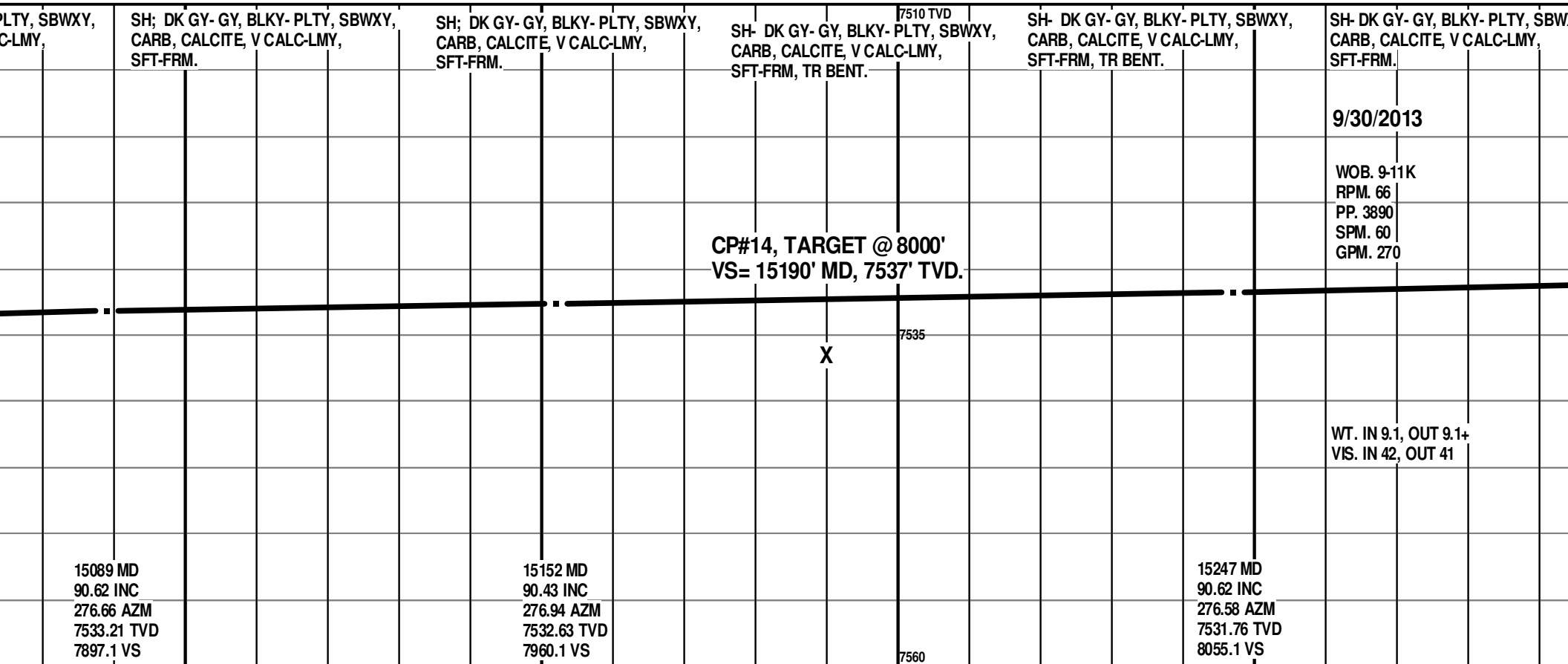
14650	14700	14750	14800	14850
TY, SBWXY, AC & CALCITE, TR PYR.	SH; GY-DK GY, SME LT GY, BLKY-PLTY, SBWXY, CARB, SME CALC FL FRAC & INCR CALCITE, V CALC-LMY, SFT-FRM.	SH; GY-DK GY, MOTT LT GY, BLKY-PLTY, SBWXY, CARB, CALCITE, V CALC-LMY, MOD FRM-FRM, TR PYR. FL FRAC & CALCITE, V CALC-LMY, SFT-FRM.	SH; GY-DK GY, SME LT GY, BLKY-PLTY, SBWXY, CARB, SME CALC V CALC-LMY, SFT-FRM, TR PYR.	SH; GY-DK GY, MOTT LT GY, BLKY-PLTY, SBWXY, CARB, ABD CALCITE, V CALC-LMY, SFT-FRM.
WL. BT.	<p>X</p> <p>CP#13, TARGET @ 7500'</p> <p>VS= 14690' MD, 7525' TVD.</p>			
3. 6-9K . 40 3866 . 60 . 270	<p>WT. IN 9.3, OUT 9.2+</p> <p>VIS. IN 40, OUT 41</p>			
	<p>14677 MD</p> <p>89.38 INC</p> <p>276.54 AZM</p> <p>7537.97 TVD</p> <p>7485.1 VS</p>		<p>14772 MD</p> <p>90.12 INC</p> <p>276.24 AZM</p> <p>7538.39 TVD</p> <p>7580.1 VS</p>	<p>7510 TVD</p> <p>7535</p> <p>7560</p>



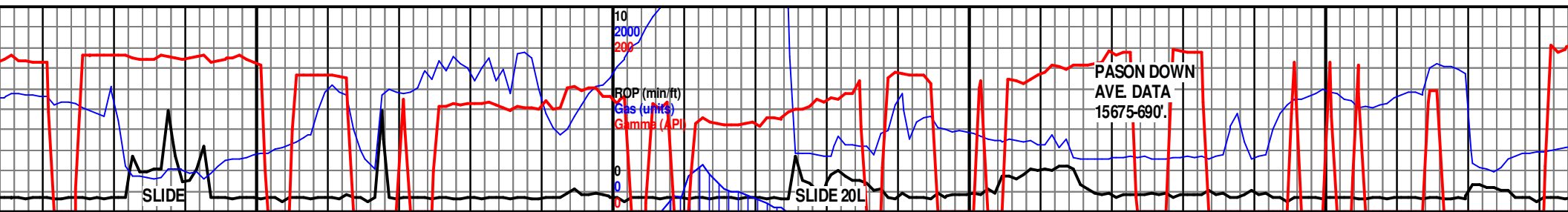


<p>SH; DK GY- GY- LT GY, BLKY-PLTY, SBWXY, CARB, CALCITE, V CALC-LMY, SFT- FRM.</p> <p>WT. IN 9.2, OUT 9.2+ VIS. IN 41, OUT 40</p> <p>14867 MD 91.17 INC 276.90 AZM 7537.32 TVD 7675.1 VS</p>	<p>SH; DK GY- GY- LT GY, BLKY-PLTY, SBWXY, CARB, CALCITE, V CALC-LMY, SFT- FRM.</p>	<p>SH; GY-DK GY- LT GY, BLKY-PLTY, SBWXY, CARB, CALCITE, V CALC-LMY, SFT-FRM.</p> <p>14962 MD 91.17 INC 276.19 AZM 7535.38 TVD 7770.1 VS</p>	<p>7510 TVD</p> <p>SH; GY-DK GY- LT GY, BLKY- PLTY, SBWXY, CARB, CALCITE, V CALC-LMY, SFT-FRM.</p> <p>WT. IN 9.1+, OUT 9.1 VIS. IN 38, OUT 38</p> <p>15057 MD 90.93 INC 276.49 AZM 7533.64 TVD 7865.1 VS</p>	<p>SH; DK GY- GY, BLKY- P CARB, CALCITE, V CAL SFT-FRM..</p>
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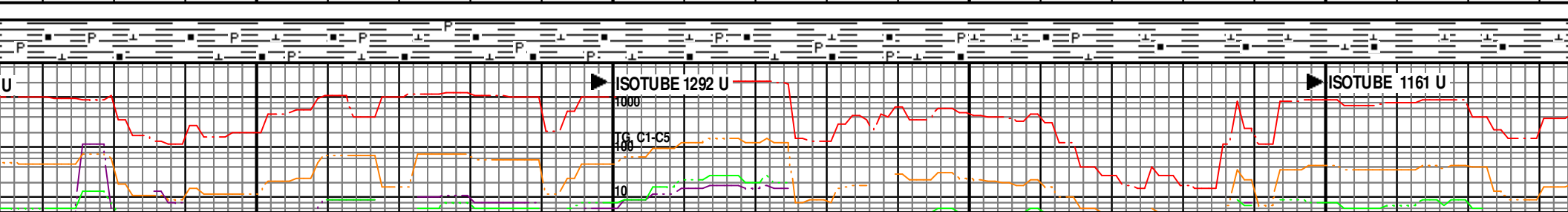




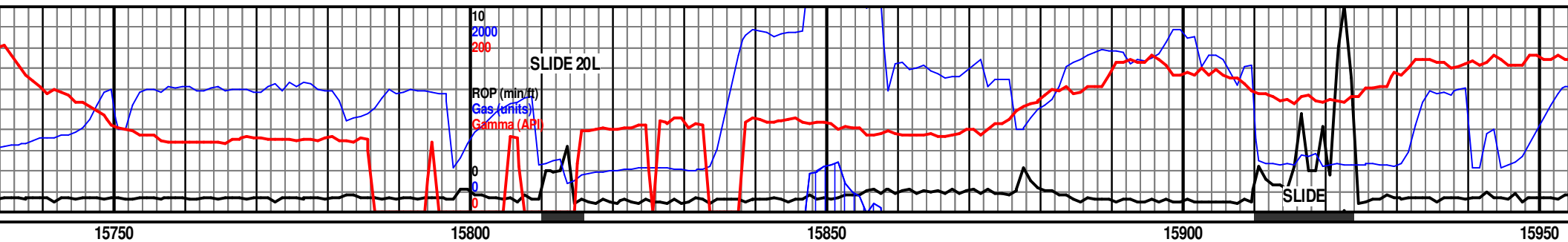




DK GY-GY, SME LT GY, BLKY-PLTY, VXY, CARB, TR CALC FL FRAC & CALCITE, V CALC-LMY, SFT-FRM. W/ TR	SH- GY-DK GY, LT GY, BLKY-PLTY, SBWYX, CARB, NO CALC FL FRAC, TR CALCITE, V CALC-LMY, SFT-FRM. W/TR PYR.	SH- GY-DK GY, LT GY, BLKY-PLTY, SBWYX, CARB, NO-LTL CALC FL FRAC, TR-SME CALCITE, V CALC-LMY, SFT-FRM. W/TR PYR.	SH- GY-DK GY, LT GY, BLKY-PLTY, SBWYX, CARB, NO-LTL CALC FL FRAC, TR-SME CALCITE, V CALC-LMY, SFT-FRM. W/TR PYR. ABNDT "SWEEP WEIGHT"	SH- GY-DK GY, SME LT GY, BLKY-PLTY, SBWYX, CARB, LTL CALC FL FRAC, TR-NO CALCITE, V CALC-LMY, SFT-FRM.	SH- GY-DK GY, SME LT GY, BLKY-PLTY, SBWYX, CARB, LTL CALC FL FRAC, TR-NO CALCITE, V CALC-LMY, SFT-FRM.
S. 41, PV. 15, YP. 19, WL. CORR. SLDS. 5.7, MBT. CL. 2600, LGS/HGS.			RAN SWEEP		
WT. IN 9.3, OUT 9.2+ VIS. IN 41, OUT 43		7510 TVD		WT. IN 9.3, OUT 9.3 VIS. IN 40, OUT 39	
15532 MD 89.32 INC 276.66 AZM 7529.56 TVD 8340.1 VS		7535		X CP#15, TARGET @ 8500' VS= 15690' MD, 7537' TVD.	
		7560	15626 MD 89.07 INC 276.80 AZM 7530.88 TVD 8434.1 VS		15721 MD 89.57 INC 276.96 AZM 7532.98 TVD 8529.1 VS







GY, SME LT GY, SBWYX, CARB, NO FRAC, TR-NO CALCITE, Y, SFT-FRM.	SH- GY-DK GY, SME LT GY, BLKY-PLTY, SBWYX, CARB, NO CALC FL FRAC, TR-NO CALCITE, V CALC-LMY, SFT-FRM.	7510 TVD	SH- GY-DK GY, LT GY, BLKY-PLTY, SBWYX, CARB, NO-LTL CALC FL FRAC, TR-SME CALCITE, V CALC-LMY, SFT-FRM. .	SH- GY-DK GY, LT GY, BLKY-PLTY, SBWYX, CARB, NO-LTL CALC FL FRAC, TR-SME CALCITE, V CALC-LMY, SFT-FRM. .	SH- DK GY- GY, BLKY- PLTY, SBWXY, CARB, V CALC-LMY, SFT-FRM, TR CALC.	SH- DK GY- GY CARB, V CALC CALC.
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7535

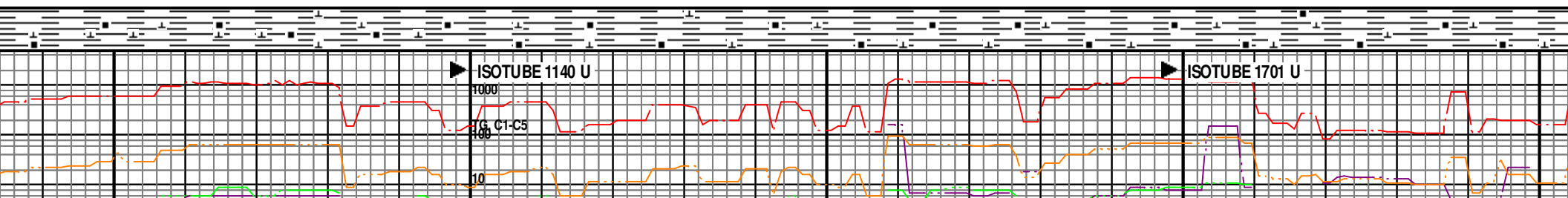
WT. IN 9.3, OUT 9.3  
VIS. IN 40, OUT 39

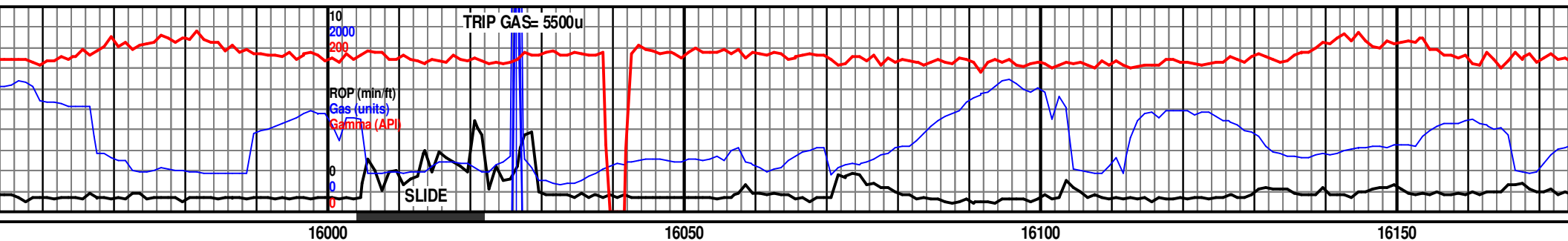
WT. IN 9.3, OUT 9.1+  
VIS. IN 40, OUT 39

15816 MD  
89.69 INC  
277.26 AZM  
7532.62 TVD  
8669.0 VS

15911 MD  
89.14 INC  
276.49 AZM  
7533.59 TVD  
8719.0 VS

7560





, BLKY- PLTY, SBWXY, LMY, SFT-FRM, TR

SH- DK GY- GY, BLKY- PLTY, SBWXY, CARB, V CALC- LMY, SFT-FRM, TR CALC.

SH- DK GY- GY, LT GY, BLKY- PLTY, SBWXY, V LTL-NO CALC FL FRAC & CALCITE, CARB, CALC- LMY, SFT- FRM. W/ TR PYR.

SH- DK GY- GY, LT GY, BLKY- PLTY, SBWXY, V LTL-NO CALC FL FRAC & CALCITE, CARB, CALC- LMY, SFT- FRM. W/ TR PYR.

SH- DK GY- GY, LT GY, BLKY- PLTY, SBWXY, V LTL-NO CALC FL FRAC & CALCITE, CARB, CALC- LMY, SFT- FRM. W/ TR PYR.

SH- DK GY- GY, LT GY, BLKY- PLTY, SBWXY, V LTL-NO CALC FL FRAC & CALCITE, CARB, CALC- LMY, SFT- FRM. W/ TR PYR.

10/1- 3/2013

TRIP OUT FOR MUD  
MOTOR AT 16027'

TRIP OUT FOR MWD TOOL  
FAILURE AT 16027'.

7510 TVD

NEW BIT # 5, SECURITY, FX54, 6", PDC,  
5X16 JETS, IN AT 16027'.

Mud Motor is 1.5°  
Gamma is 50' behind bit.  
Survey is 66' behind bit.

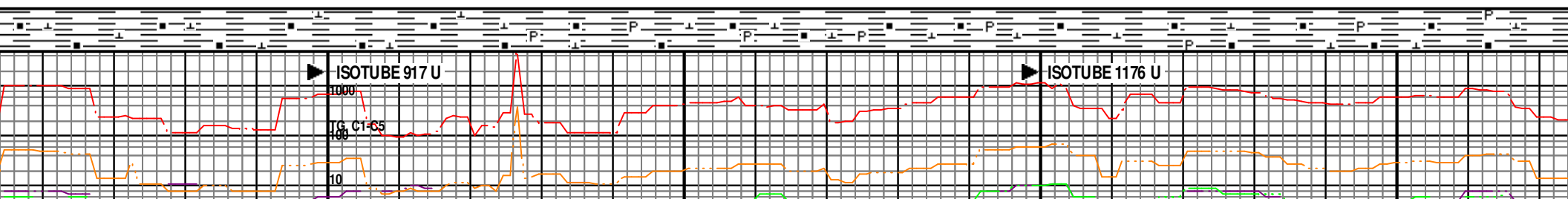
WT. IN 9.2+, OUT 9.2  
VIS. IN 45, OUT 41

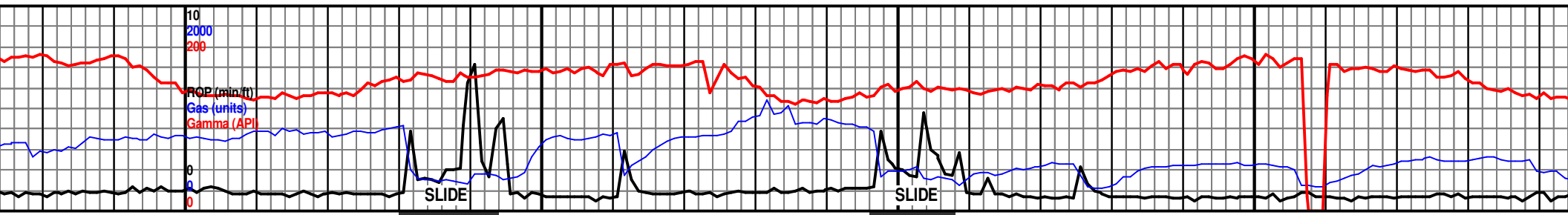
WOB. 2-8K  
RPM. 40  
PP. 3535  
SPM. 60  
GPM. 270

16006 MD  
89.35 INC  
274.64 AZM  
7534.84 TVD  
8814.0 VS

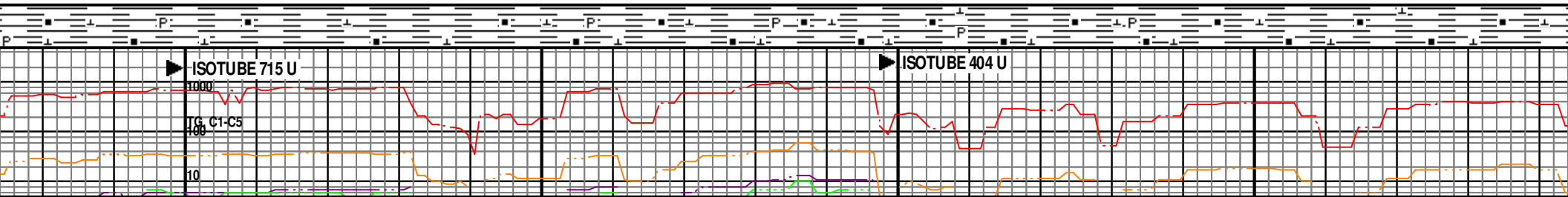
16101 MD  
90.71 INC  
274.60 AZM  
7534.79 TVD  
8909.0 VS

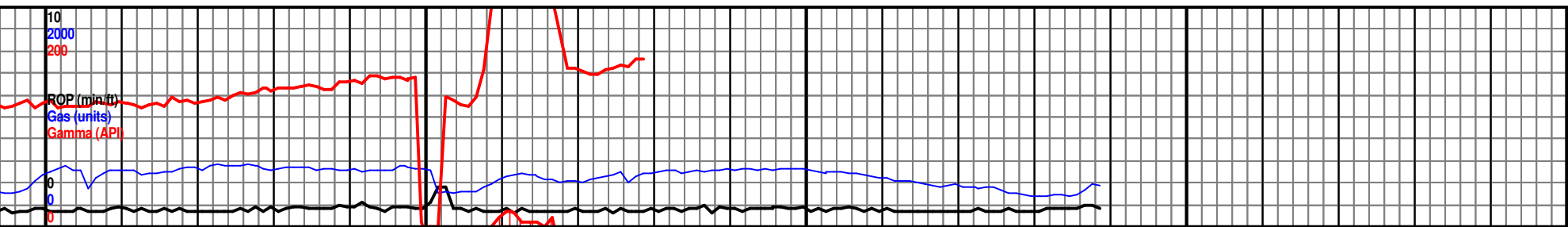
16164 MD  
91.54 INC  
275.06 AZM  
7533.53 TVD  
8971.9 VS





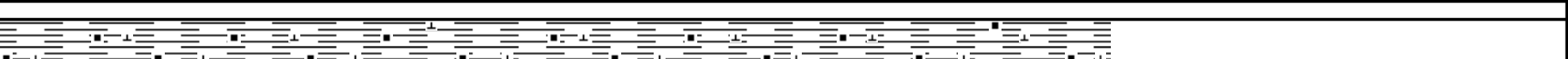
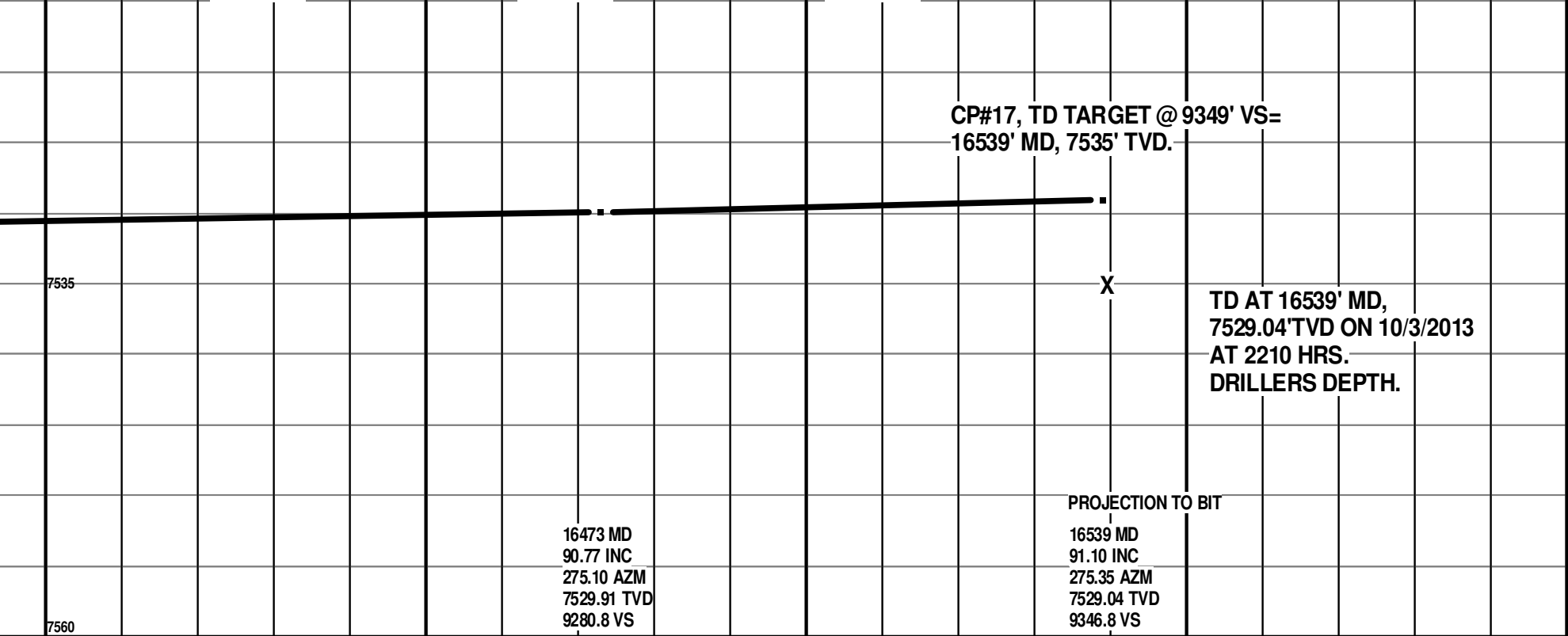
T GY, BLKY- PLTY, O CALC FL FRAC & CALC- LMY, SFT-	7510 TVD SH- DK GY- GY, BLKY- PLTY, SBWXY, CARB, V CALC- LMY, SFT-FRM, TR CALC.	SH- DK GY- GY, BLKY- PLTY, SBWXY, CARB, V CALC- LMY, SFT-FRM, TR CALC & PYR.	SH- DK GY- GY, BLKY- PLTY, SBWXY, CARB, V CALC- LMY, SFT-FRM, TR CALC & PYR.	SH- DK GY- GY, BLKY- PLTY, SBWXY, CARB, V CALC- LMY, SFT-FRM, TR CALC & PYR.	SH- DK GY- G CARB, V CAL CALC & PYR.
CP#16, TARGET @ 9000' VS= 16190' MD, 7532' TVD.					
X					
	7535 WT. IN 9.3, OUT 9.2 VIS. IN 43, OUT 41		WT. IN 9.2+, OUT 9.2+ VIS. IN 40, OUT 40		
		16259 MD 90.61 INC 275.02 AZM 7531.77 TVD 9066.9 VS			
	7560				





16400 16450 16500 16550 16600

7510 TVD  
SH- DK GY- GY, BLKY- PLTY, SBWXY,  
CARB, V CALC- LMY, SFT-FRM, TR  
CALC & PYR.



ISOTUBE 464 U ISOTUBE 518 U

