



Weatherford®

Surface Logging Systems

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

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

Well Name: Reserve 3-65 26 1H
API: 05-001-09779-00
Location: NW/NW, Sec 26, T3S-R65W. Arapahoe County, CO
License Number: API- 05-001-09779-00
Spud Date: 6/3/2014
Surface Coordinates: 660' FNL & 400' FWL of NW/NW 26 T3S-R65W
Region: DJ BASIN
Drilling Completed:
Bottom Hole 660' FNL & 460' FEL of NE/NE 26 T3S-R65W
Coordinates:
Ground Elevation (ft): 5586
Logged Interval (ft): 7000 To: K.B. Elevation (ft): 5510
Formation: NIOBRARA
Type of Drilling Fluid: OBM
Total Depth (ft):

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

OPERATOR

Company: Conoco/Phillips
Address: Attn: Abby Thornton
Three Westlake Park, Rm 14013
550 Westlake Park Blvd, Houston, TX 77079, Office: 832-486-2543.

GEOLOGIST

Name: Gabriel Genitempo, Richard Wagner
Company: WEATHERFORD SLS/TOOKE ROCKIES
Address: PO BOX 435
CASPER, WY 82602
307.265.2124




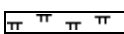
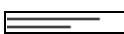
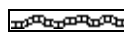
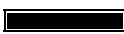

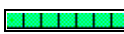

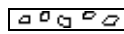


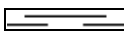

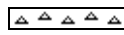


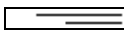

Supervision

Project Geologist: Barbara Tillotson
 Drilling Engineer: Gary Hamilton, Ben Tolman, John Benge- Conoco/Phillips
 Drilling Sup: Bob Strickler- Conoco/Phillips
 Company Rep: Wayne Morgan, Mike Johnson, (Day Leads)
 Company Rep: Clint Valentine, Clint Goins (Night Leads)
 Well Site Safety: Rainey Schexnider, Jeff Frantz
 Contact Geologist: Abby Thornton- Conoco/Phillips
 Drilling & Comp. Mgr: Derly Gonzalez-Conoco/Phillips

Comments
















Drilling Co.--H & P, Rig #276
 Toolpusher- Ted Howell, Duane Cyr
 Dir. Co.- Sperry
 Mud Co.- Baroid/Haliburton, Dave Howell, Alex Blau







ROCK TYPES

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









ACCESSORIES



FOSSIL






	Algae
	Amph
	Belm
	Bioclst
	Brach
	Bryozoa
	Cephal
	Coral
	Crin
	Echin
	Fish
	Foram
	Fossil
	Gastro
	Oolite

	Ostra
	Pelec
	Pellet
	Pisolite
	Plant
	Strom










MINERAL

	Anhy
	Arggrn
	Arg
	Bent
	Bit
	Brecfrag
	Calc
	Carb

	Chtdk
	Chtlt
	Dol
	Feldspar
	Ferrpel
	Ferr
	Glau
	Gyp
	Hvymn
	Kaol
	Marl
	Minxl
	Nodule
	Phos
	Pyr
	Salt












	Sandy
	Silt
	Sil
	Sulphur
	Tuff

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





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



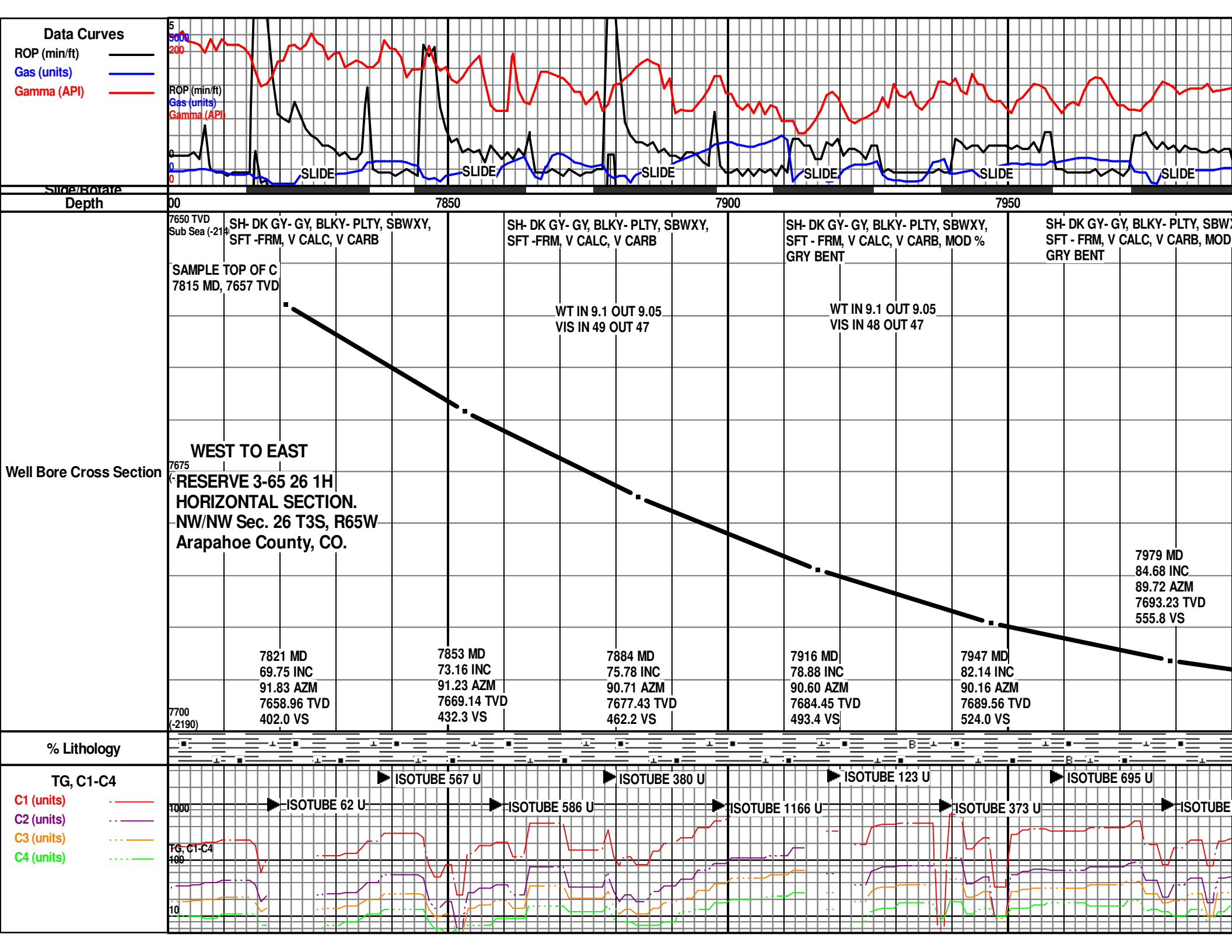
Well

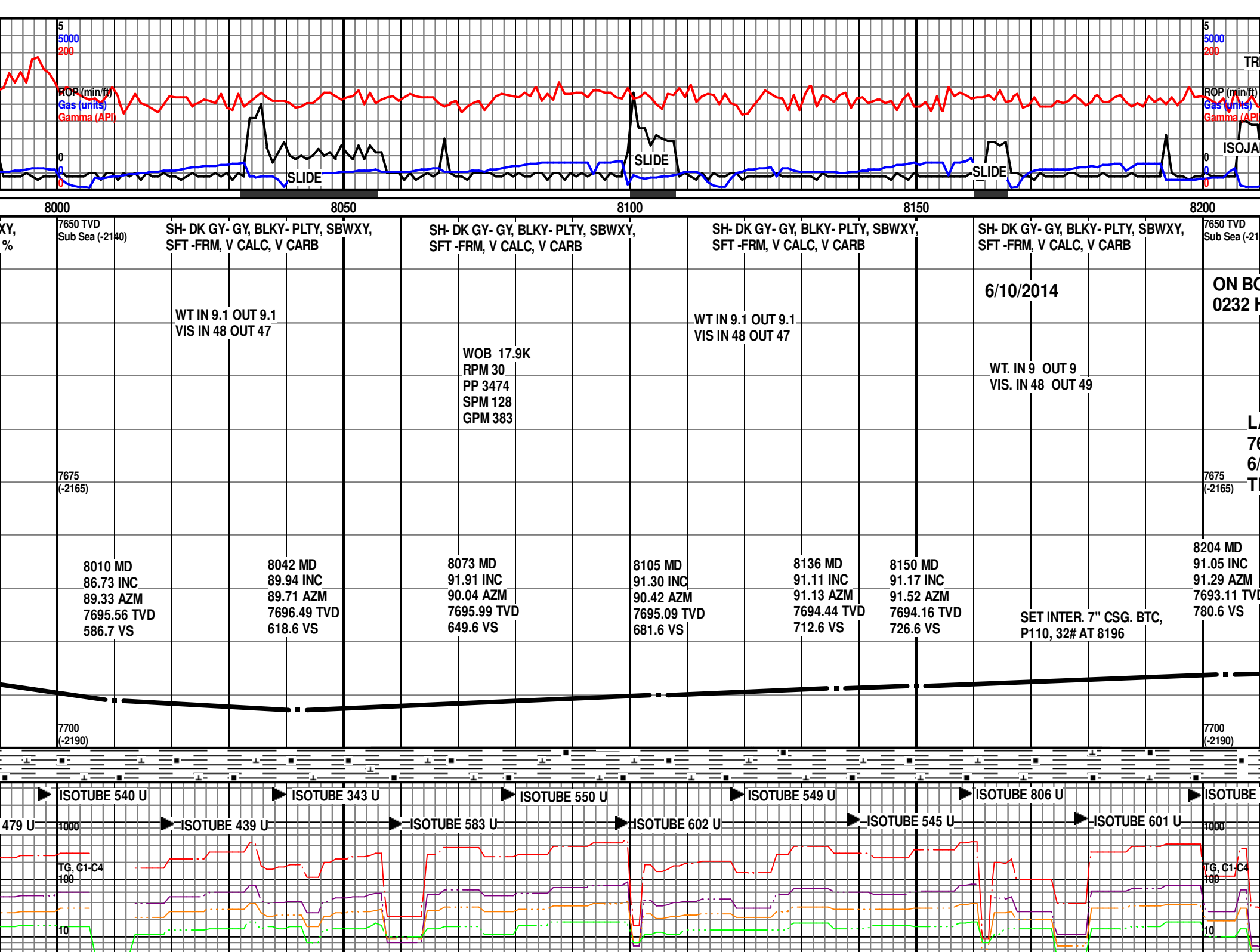


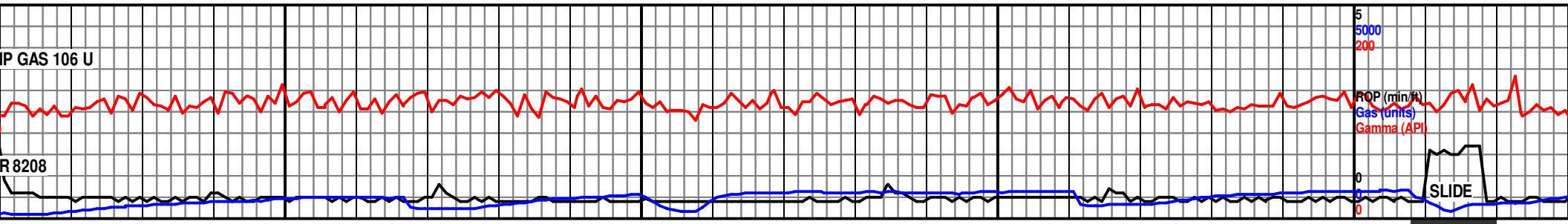
Moderate



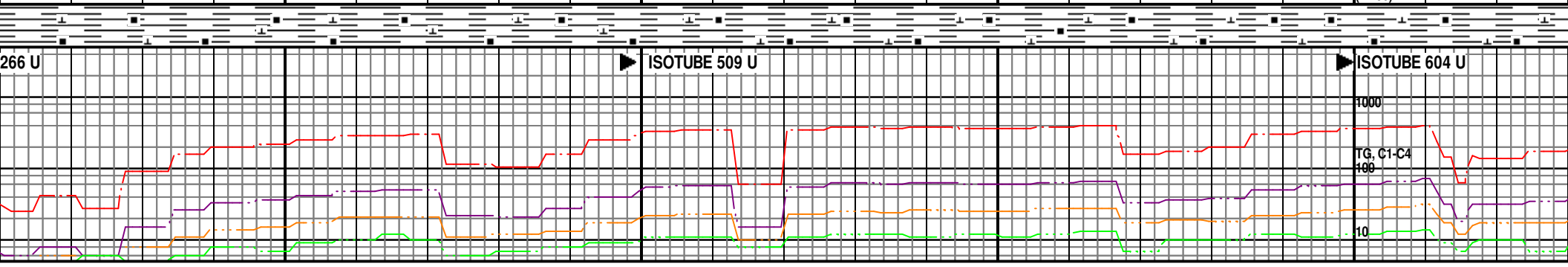
Poor

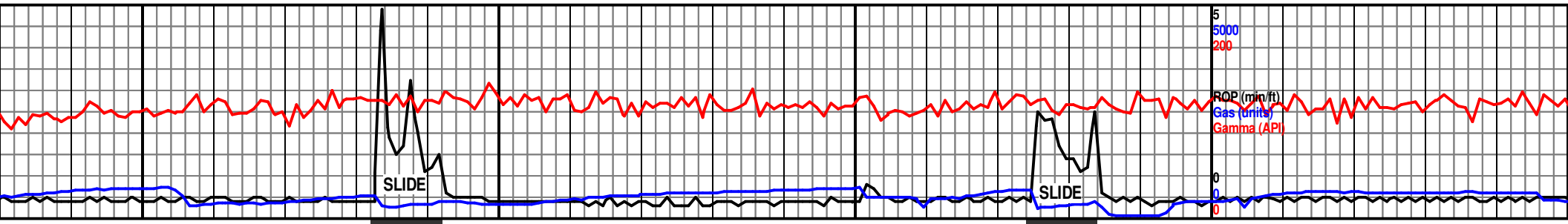




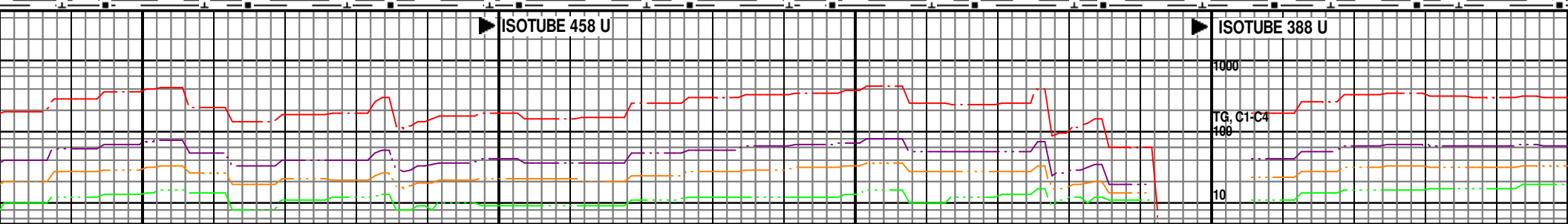


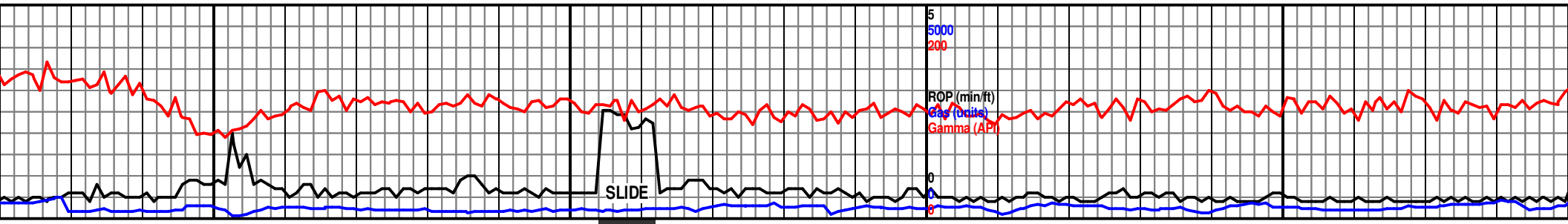
8250				8300				8350				8400			
SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, MOD CALC, MOD CARB				SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, MOD CALC, MOD CARB				SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, MOD CALC, MOD CARB				7650 TVD Sub Sea (-2140)			
BOTTOM DRILLING @ 00 HRS 6/11/2014															
Mud Motor 1.25° Bit to Gamma - 37.54' Survey to bit - 65.00'								WT. IN 9.1 OUT 9.1 VIS. IN 52 OUT 52							
LANDED THE CURVE AT 8206 MD, 7693.02 TVD (PROJ.) 0038 HRS ON 6/10/2014.															
PREP FOR BHA															
NEW BIT #3 , HDBS, MMD55, 8.75", PDC, 5X18 JETS, IN AT 8206															
				8298 MD 90.37 INC 90.68 AZM 7691.95 TVD 874.6 VS								8393 MD 91.79 INC 91.68 AZM 7690.16 TVD 969.6 VS			
												7675 (-2165)			
												7700 (-2190)			





8450	8500	8550	8600	8650
BLKY- PLTY, SBWXY, LC, V CARB, TR CALC	SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, TR CALC & BENT	SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, TR BENT	SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, TR BENT	7650 TVD Sub Sea (-2140) SH- DK GY- GY, BLKY- PLTY, SBWXY -FRM, V CALC, V CARB, TR BENT
	WT. IN 9.15 OUT 9.1 VIS. IN 50 OUT 49		WT. IN 9.15 OUT 9.1 VIS. IN 53 OUT 51 WOB 20 K RPM 70 PP 4055 SPM 123 GPM 545	7675 (-2165) 7700 (-2190)
	8488 MD 92.23 INC 92.08 AZM 7686.83 TVD 1064.5 VS		8583 MD 90.19 INC 91.09 AZM 7684.82 TVD 1159.5 VS	





8900	8950	9000	9050
Y- GY, BLKY- PLTY, SBWXY, I, V CALC, V CARB, TR PYR	SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, TR PYR	SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, TR PYR	SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB

WT. IN 9.15 OUT 9.1
VIS. IN 50 OUT 49

CP#1, TARGET @ 1500' VS=
8923MD, 7680 TVD.

X

8962 MD
91.23 INC
90.68 AZM
7683.03 TVD
1538.4 VS

7675
(-2165)

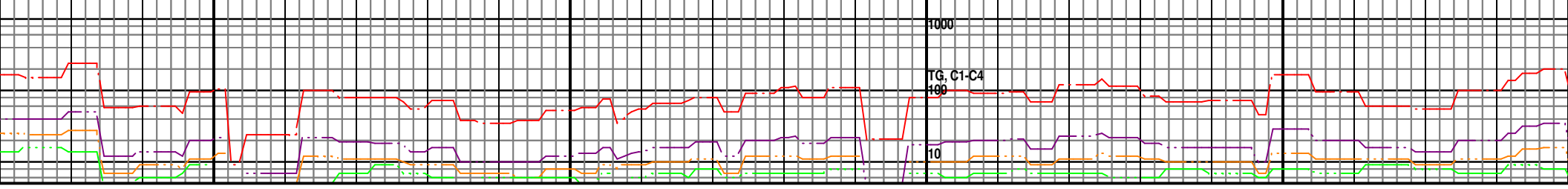
7700
(-2190)

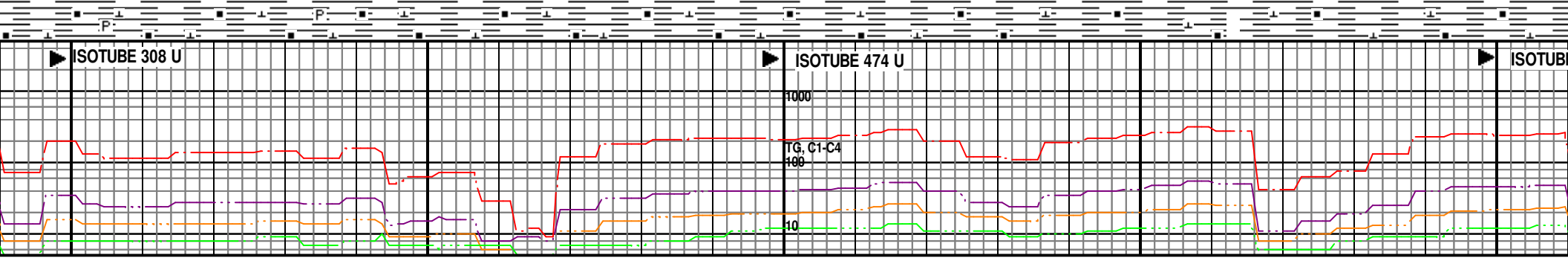
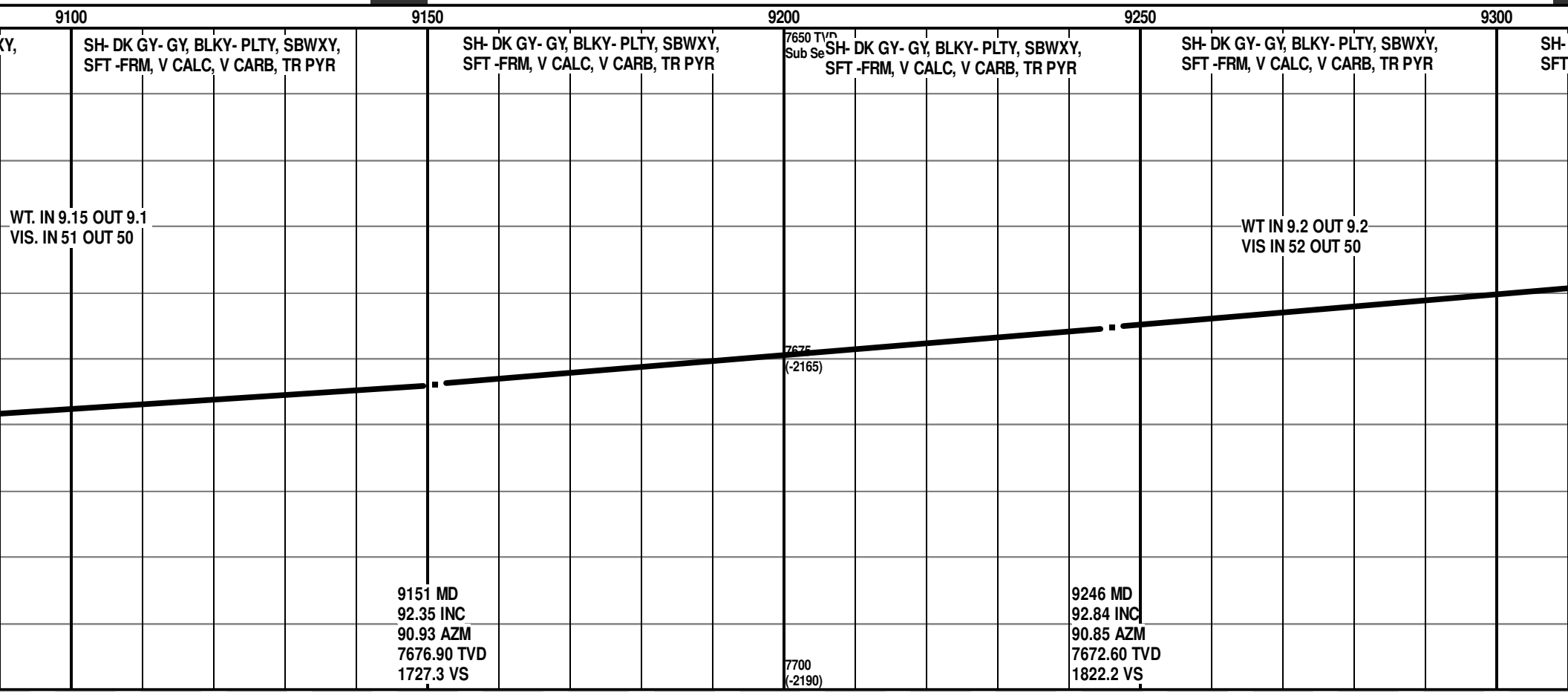
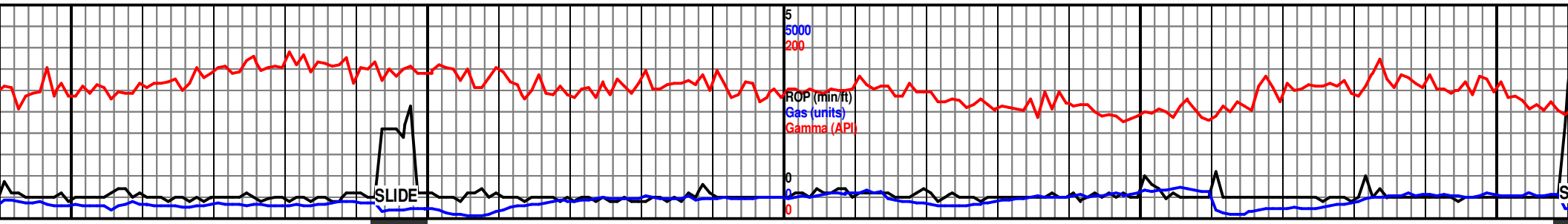
9056 MD
91.92 INC
91.01 AZM
7680.44 TVD
1632.4 VS

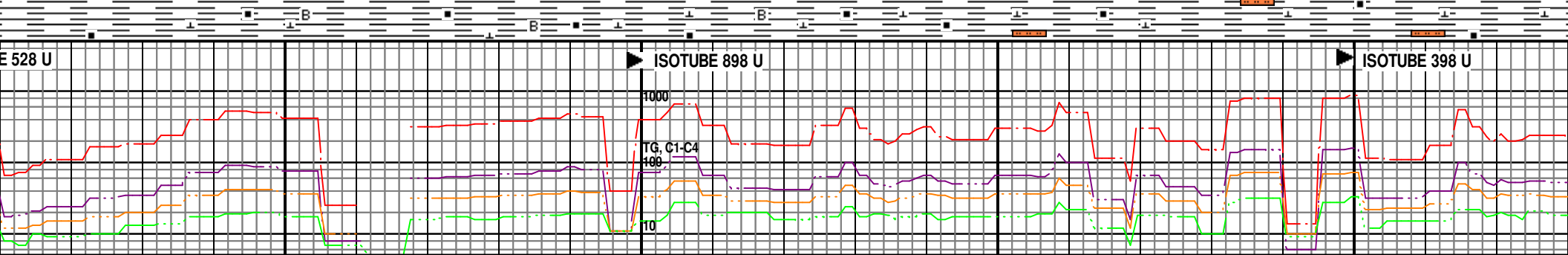
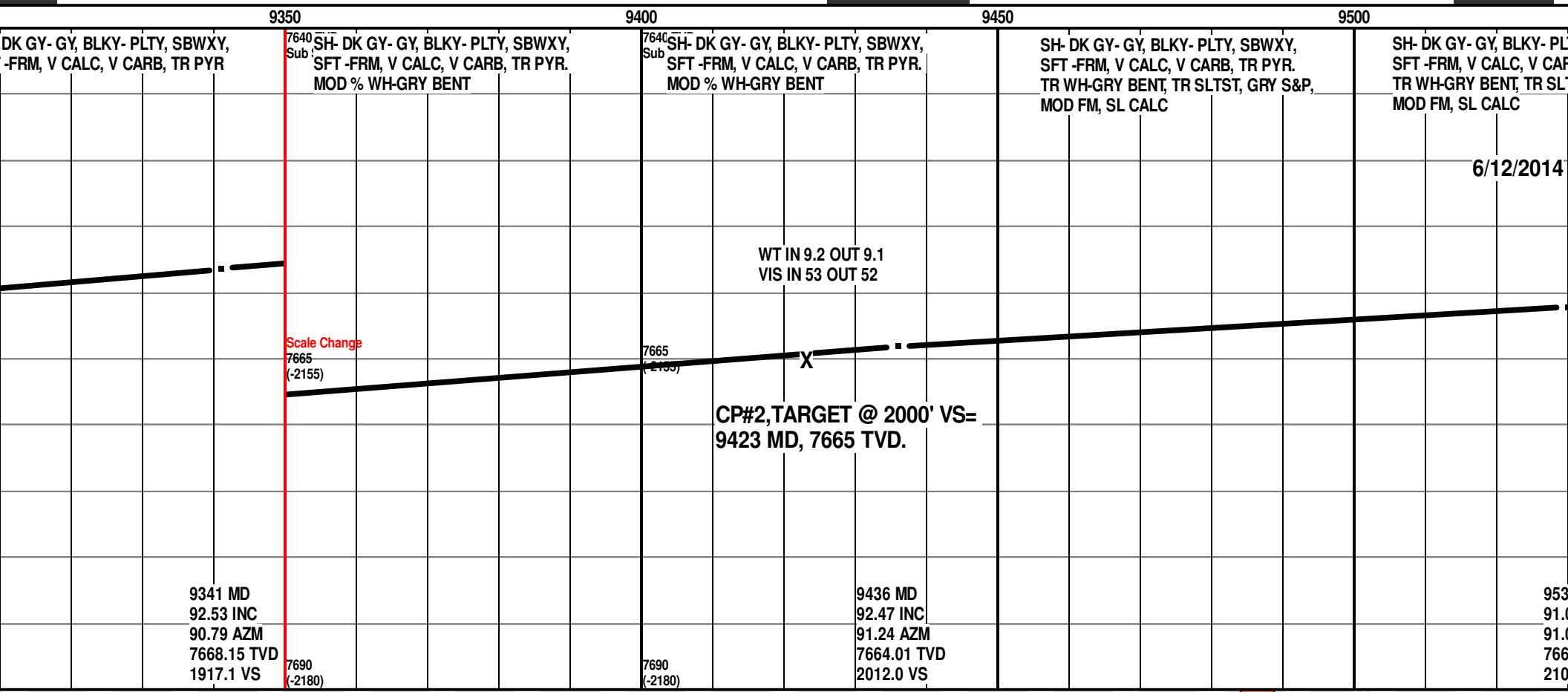
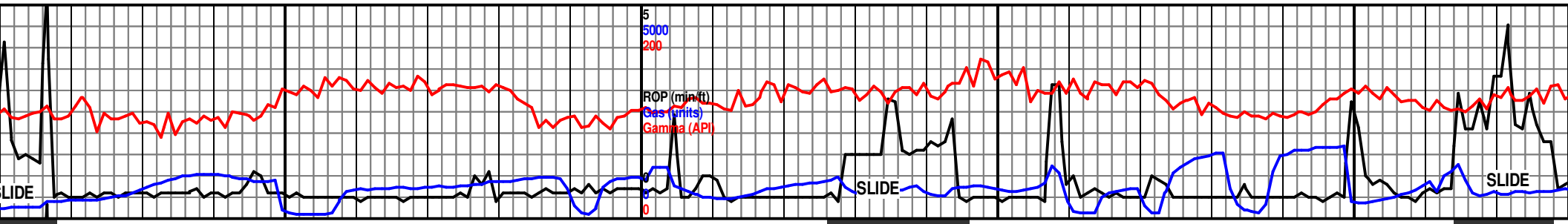
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M
TVD
S

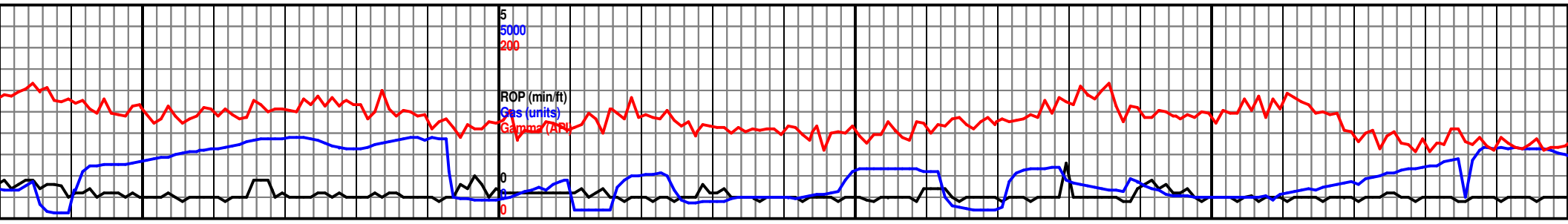
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▶ ISOTUBE 245 U

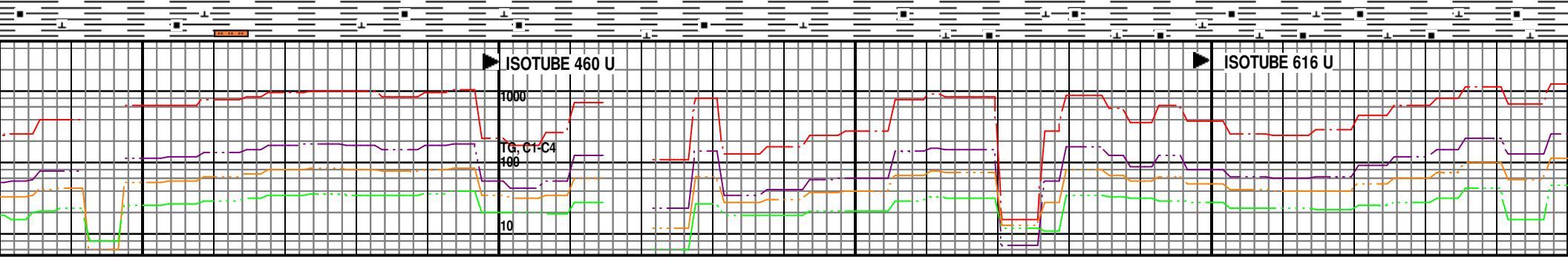


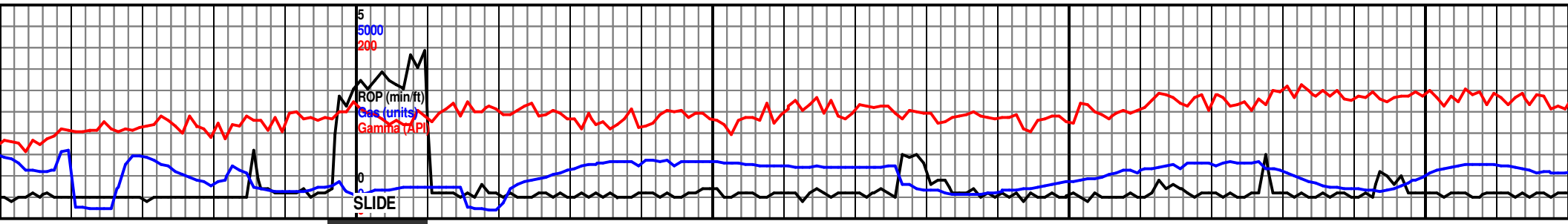




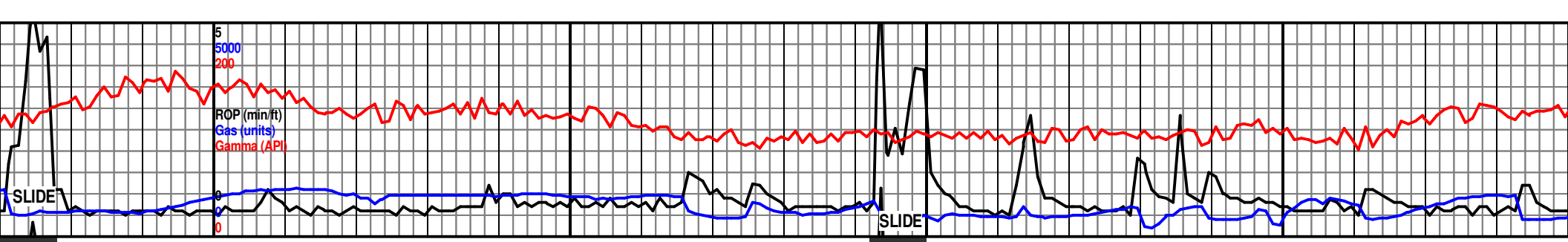


9550	9600	9650	9700	9750
TY, SBWXY, RB, TR PYR. TST, GRY S&P,	SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, TR PYR. TR WH-GRY BENT, TR SLTST, GRY S&P, MOD FM, SL CALC	7640 TVD Sub Sea (-2130) SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, TR PYR.	SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, TR PYR.	SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, TR PYR.
	WT IN 9.1 OUT 9.05 VIS IN 53 OUT 53			
		7665 (-2155) 7690 (-2180)	9625 MD 91.11 INC 91.27 AZM 7659.33 TVD 2201.0 VS	9720 MD 91.48 INC 91.47 AZM 7657.19 TVD 2296.0 VS

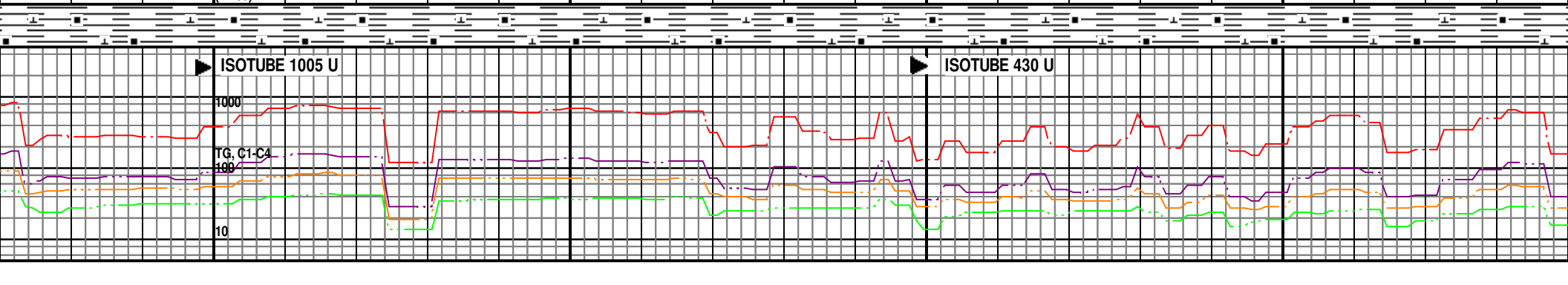


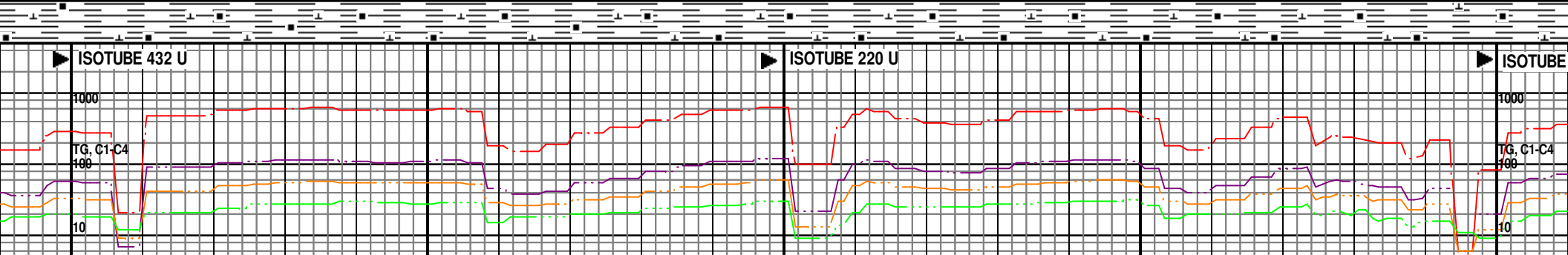
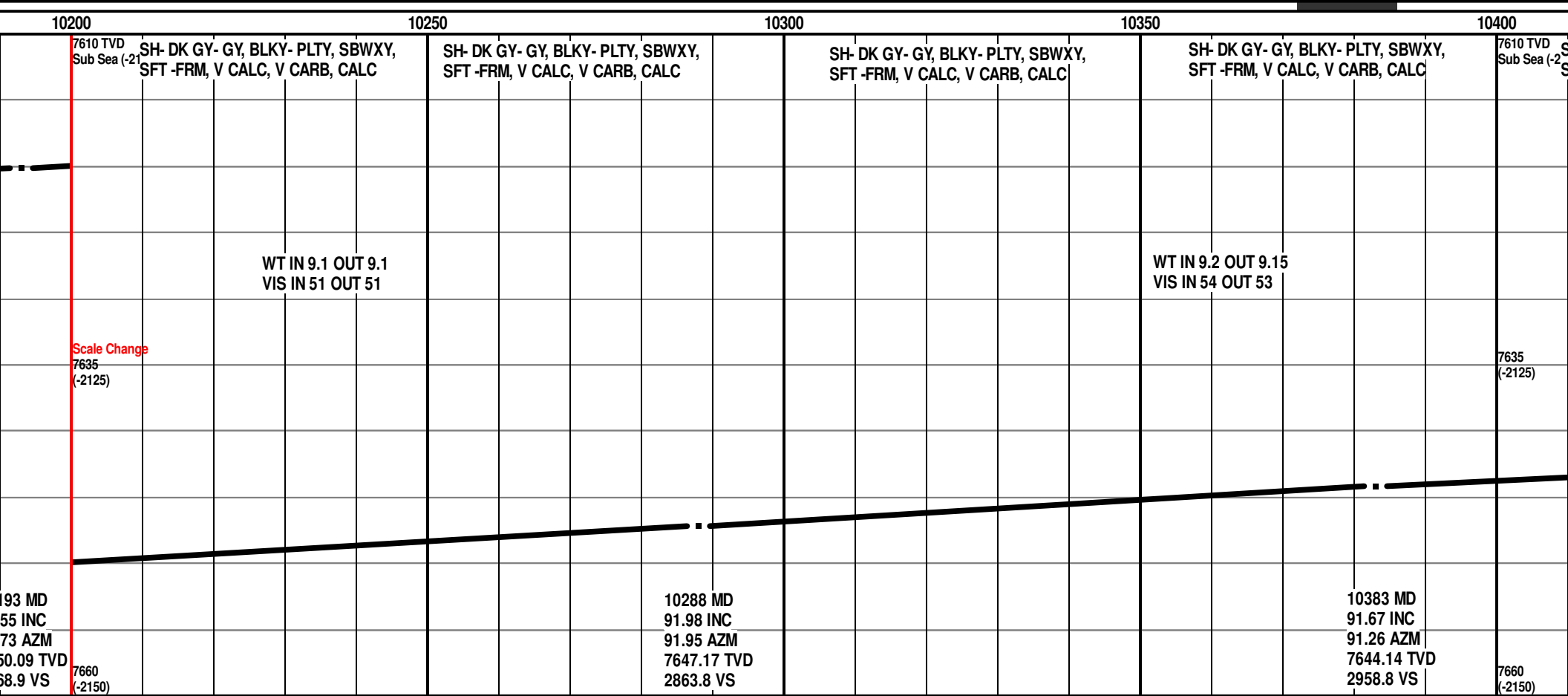
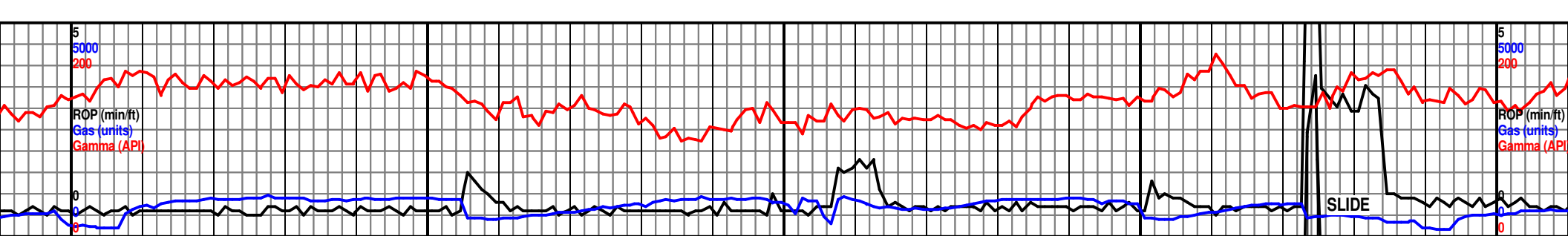


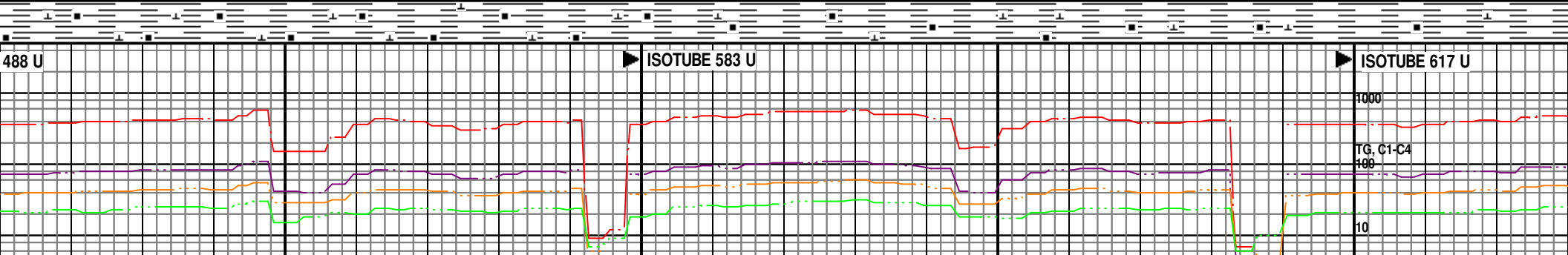
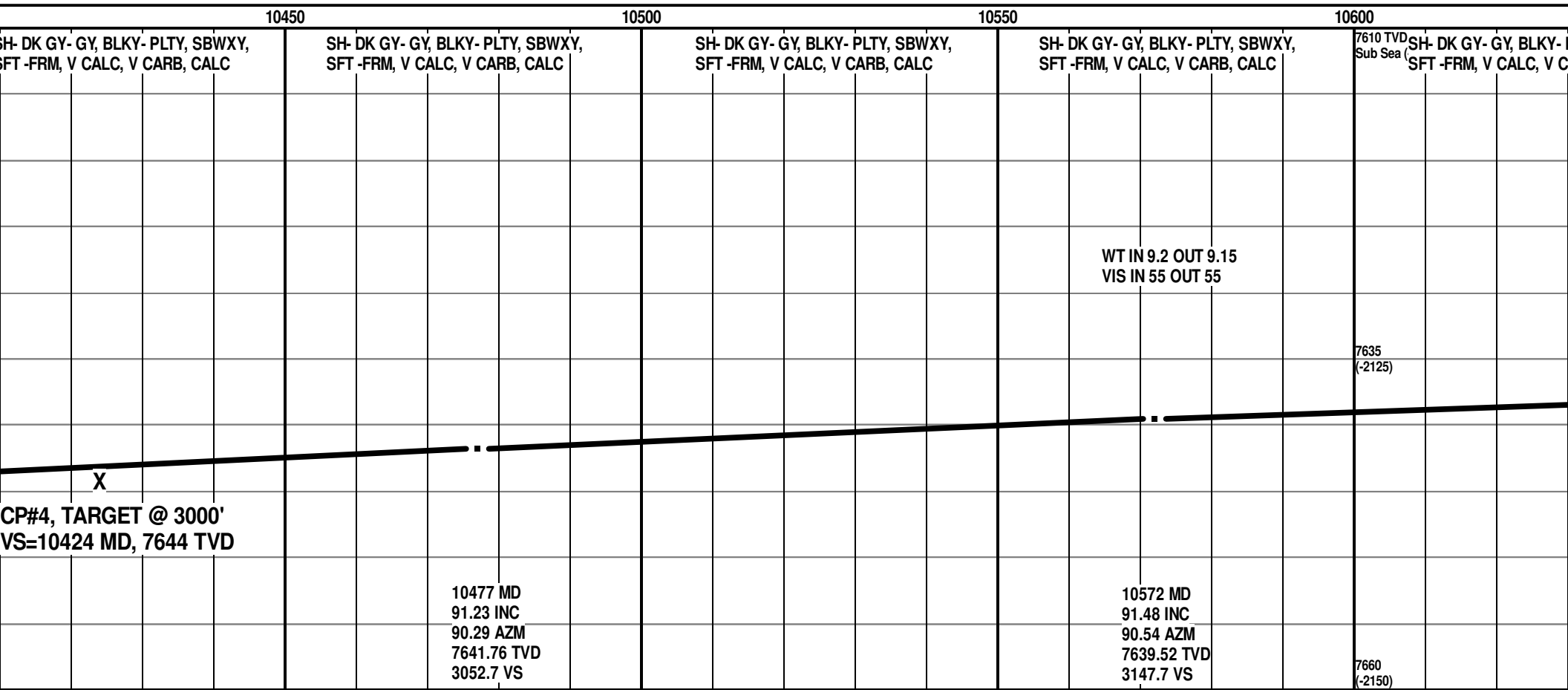
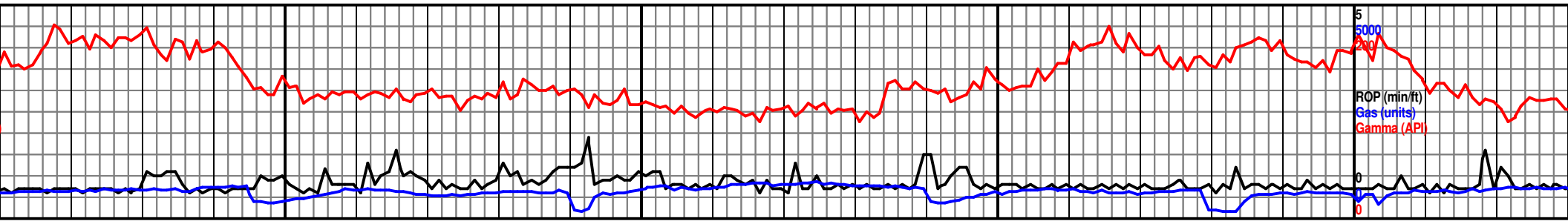
50					9800					9850					9900					9950									
SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, TR CALC					7640 TVD Sub Sea (-2130)					SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, TR CALC					SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, TR CALC					SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, TR CALC					SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, TR CALC				
					</																								

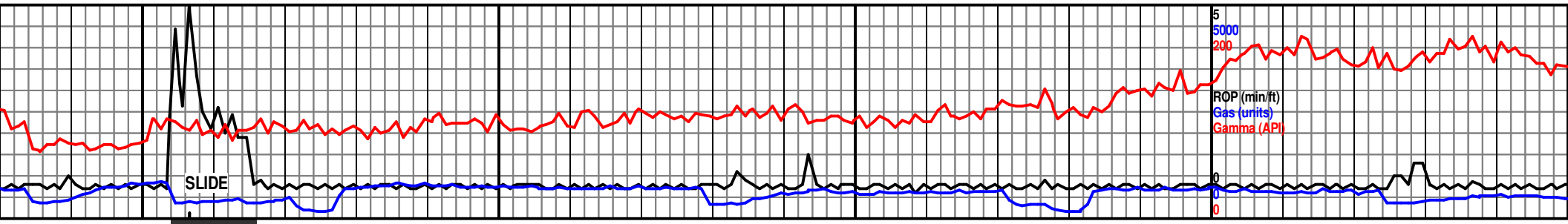


10000		10050		10100		10150	
KY- PLTY, SBWXY, SFT ARB, TR CALC		SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, TR CALC		SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, TR CALC		SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, CALC	
7640 TVD Sub Sea (-2130)							
7665 (-2155)		WT IN 9.2 OUT 9.2 VIS IN 51 OUT 53				WT IN 9.15 OUT 9.15 VIS IN 52 OUT 51	
10004 MD 90.86 INC 91.16 AZM 7653.91 TVD 2579.9 VS				10099 MD 91.11 INC 91.57 AZM 7652.28 TVD 2674.9 VS			
7690 (-2180)							









10650 10700 10750 10800 10850

PLTY, SBWXY, ARB, CALC SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, CALC SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, CALC SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, TR CALCITE, TR BENT SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, TR CALCITE, TR BENT

6/13/2014

WT IN 9.15 OUT 9.15
VIS IN 54 OUT 56

10667 MD
90.62 INC
90.31 AZM
7637.78 TVD
3242.7 VS

10761 MD
90.80 INC
90.78 AZM
7636.61 TVD
3336.7 VS

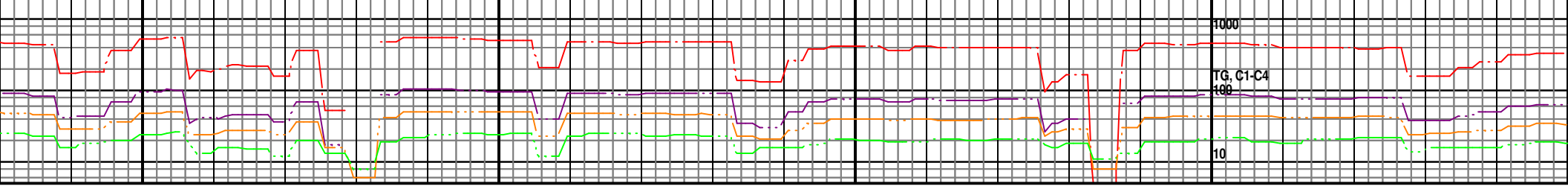
7635
(-2125)

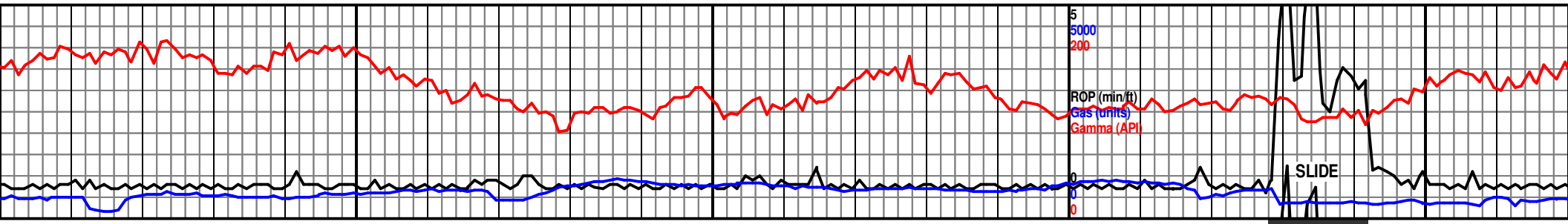
7660
(-2150)



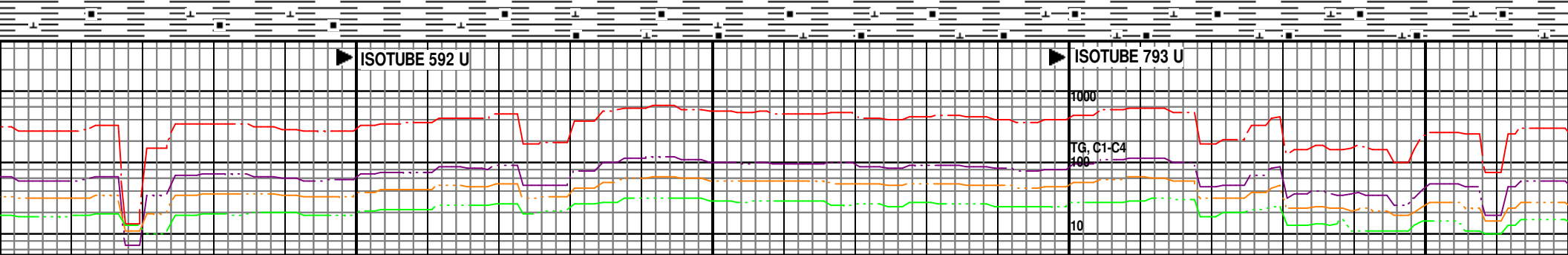
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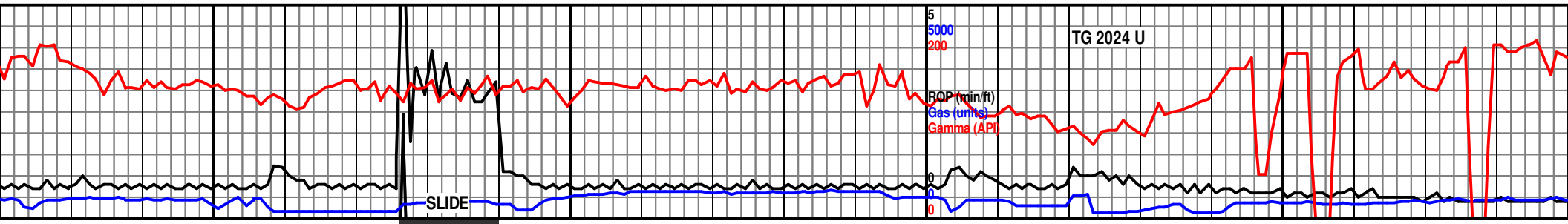
▶ ISOTUBE 660 U



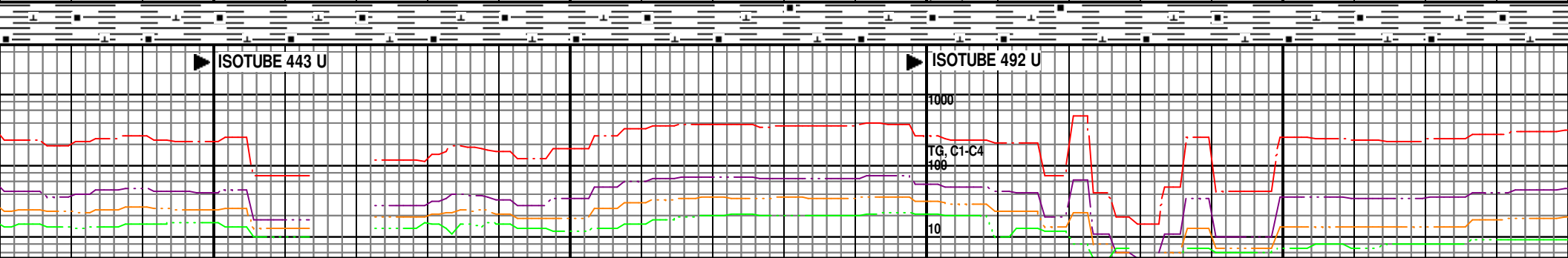


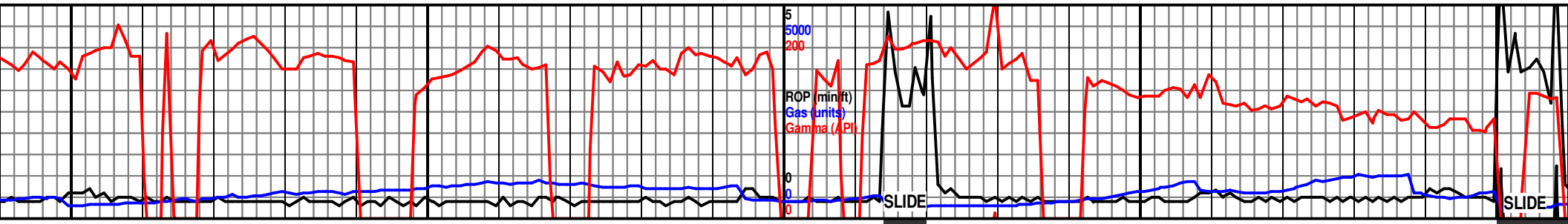
350 SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, TR CALCITE, TR BENT	10900 SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, TR CALCITE, TR BENT	10950 SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, CALC	11000 7610 TVD Sub Sea (-2100)	SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, CALC	11050 SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, CALC
10856 MD 91.30 INC 90.85 AZM 7634.87 TVD 3431.7 VS	CP#5, TARGET @ 3500' VS=10924 MD, 7632 TVD	10951 MD 91.17 INC 90.92 AZM 7632.82 TVD 3526.6 VS	7635 (-2125) 7660 (-2150)	11045 MD 90.55 INC 90.86 AZM 7631.41 TVD 3620.6 VS	





11100			11150			11200			11250		
Y, BLKY- PLTY, SBWXY, CALC, V CARB, CALC			SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, CALC			SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, CALC			SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, CALC		
						6/14 - 15/2014					
						TRIP OUT TO REPLACE TOP DRIVE 11221					
			WT IN 9.1 OUT 9.1 VIS IN 56 OUT 54								

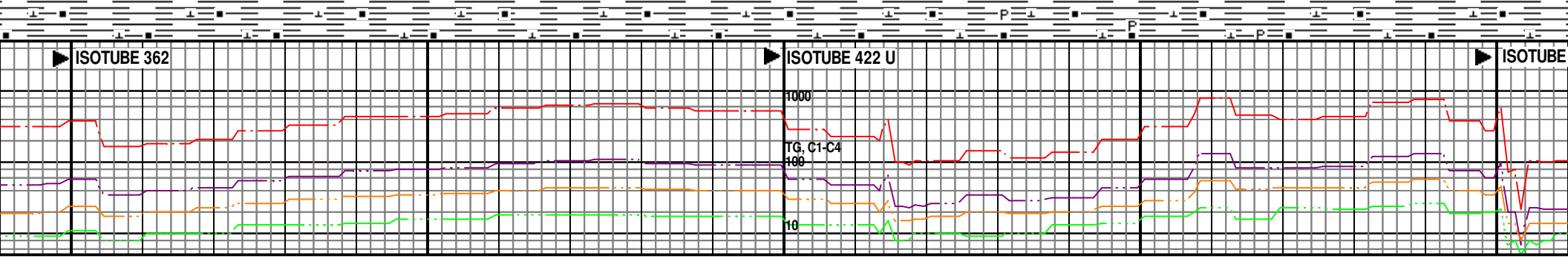


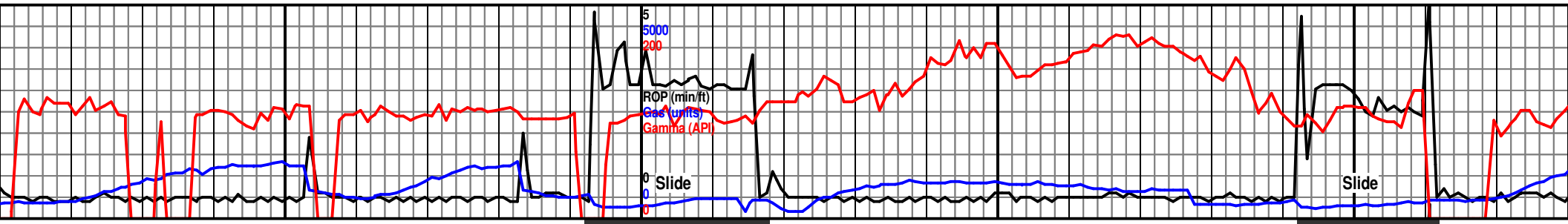


11300	11350	11400	11450	11500
SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, CALC	SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, CALC	SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, CALC	SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, CALC, TR PYR	SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, CALC, TR PYR
WT IN 9.3 OUT 9.2 VIS IN 68 OUT 64			WT IN 9.25 OUT 9.15 VIS IN 56 OUT 57	

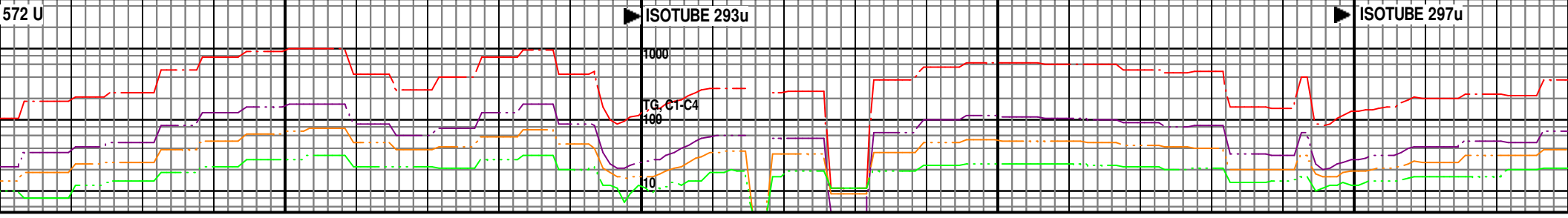
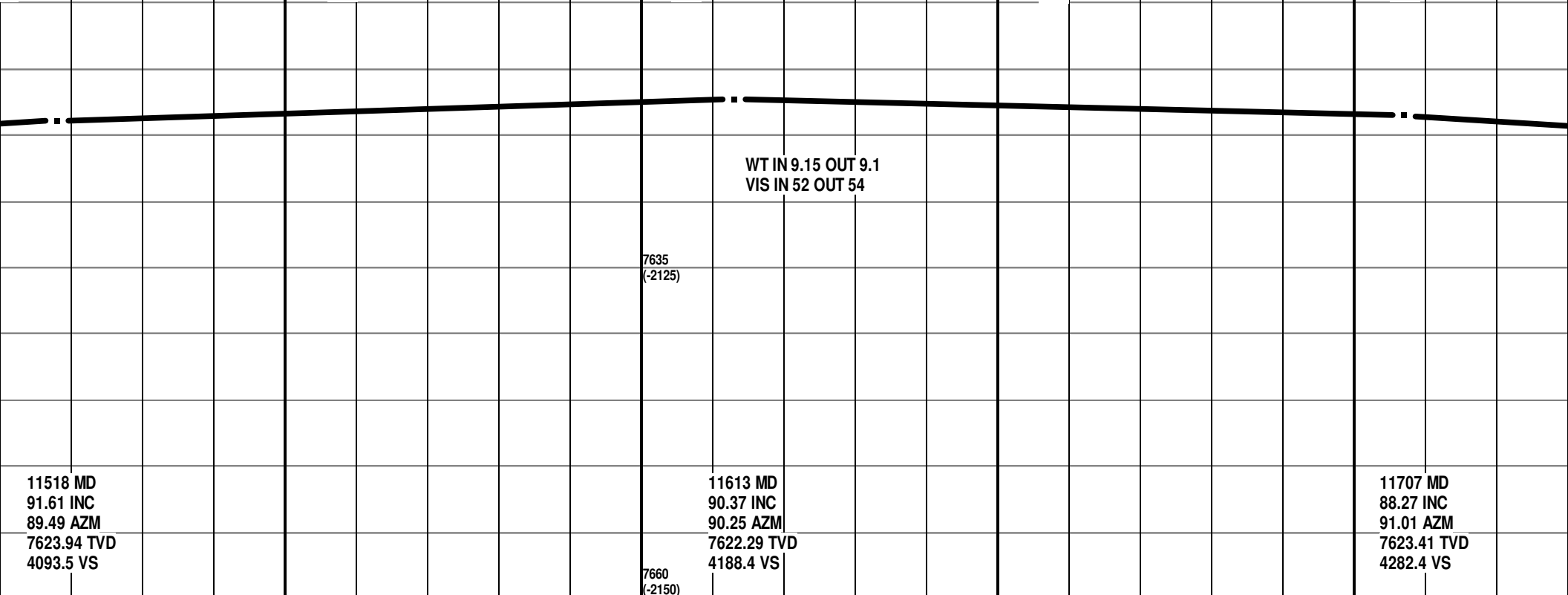
11330 MD
91.61 INC
90.11 AZM
7630.12 TVD
3905.6 VS

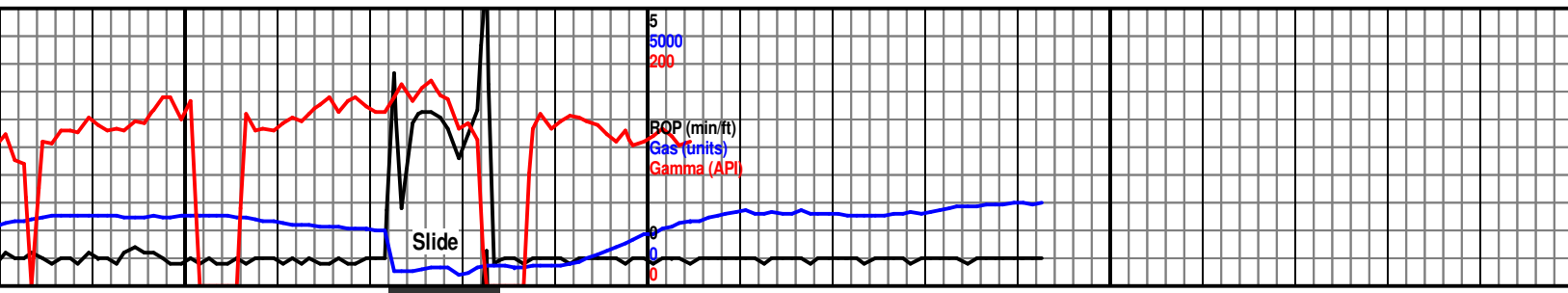
11424 MD
92.16 INC
90.29 AZM
7627.03 TVD
3999.5 VS





11550	11600	11650	11700
SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, CALC,TR PYR	SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, CALC,TR PYR	SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, CALC,TR PYR	SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, CALC,TR PYR





11750 11800 11850 11900

TY, SBWXY, IB, CALC, TR SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, CALC 7610 TVF Sub Sea SH- DK GY- GY, BLKY- PLTY, SBWXY, SFT -FRM, V CALC, V CARB, CALC

REACHED TOTAL DEPTH OF 11843' MD @ 12:05 AM 6/16/2014

WT IN 9.15 OUT 9.15
VIS IN 54 OUT 52

7635
(-2125)

X

CP#6, TARGET @ 4418'
VS=11842 MD, 7634 TVD

PROJECTION TO THE BIT

11778 MD
87.59 INC
90.72 AZM
7625.97 TVD
4353.4 VS

7660
(-2150)

11843 MD
87.59 INC
90.72 AZM
7628.71 TVD
4418.3 VS

