



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: Tebo 29-2H(HORZ. SEC./LATERAL)
Location: SW/NW, Sec 28,T4S-R64W. Arapahoe County, CO
License Number: API 05-005-07209-00
Spud Date: 2/5/2014
Surface Coordinates: 1980' FNL & 250' FWL of SW/NW, Sec. 28, T4S-R64W,
Arapahoe County, CO.
Bottom Hole: 1920' FNL & 480 FWL
Coordinates: Arapahoe County, CO.
Ground Elevation (ft): 5838' K.B. Elevation (ft): 5862'
Logged Interval (ft): 8173' To: 12436' Total Depth (ft): 12436'
Formation: NIOBRARA
Type of Drilling Fluid: WATER BASE

Region: DJ BASIN

Drilling Completed: 2/19/2014

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

OPERATOR

Company: CONOCO/PHILLIPS Attn: Abby Tomkiewicz
Address: 600 N Dairy Ashford
ATR- 3086B
Houston, TX 77079

GEOLOGIST

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

Supervision

Project Geologist: Conoco/Phillips

Drilling Engineer: Gary Hamilton- Conoco/Phillips, Ben Tolman- Conoco/Phillips, John Benge- Conoco/Phillips

Drilling & Comp. Sup: Bob Strickler- Conoco/Phillips

Company Rep: Richard Perez, Wes Evans (Day Leads)

Company Rep: Frank Holubec, Mike Weatherly. (Night Leads) Well Site Safety: Rainey Schexnider, Jeff Frantz

Contact Geologist: Abby Tomkiewicz- Conoco/Phillips

Comments

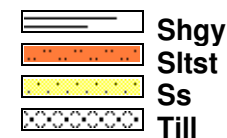
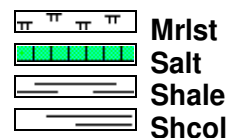
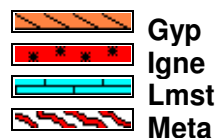
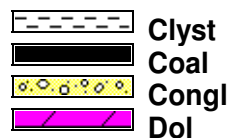
Drilling Co.--H & P, Rig #280

Toolpusher- , Mike Stevens, Josh Coleman

Dir. Co.- Sperry

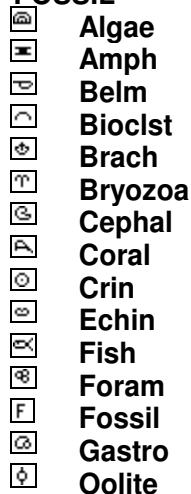
Mud Co.- Baroid/Haliburton, Dave Howell, Chase Putnam

ROCK TYPES

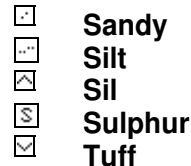
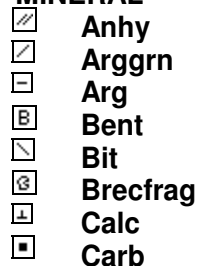


ACCESSORIES

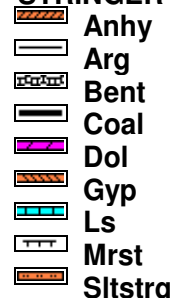
FOSSIL



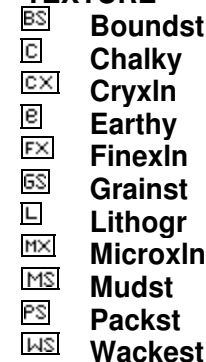
MINERAL



STRINGER



TEXTURE



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

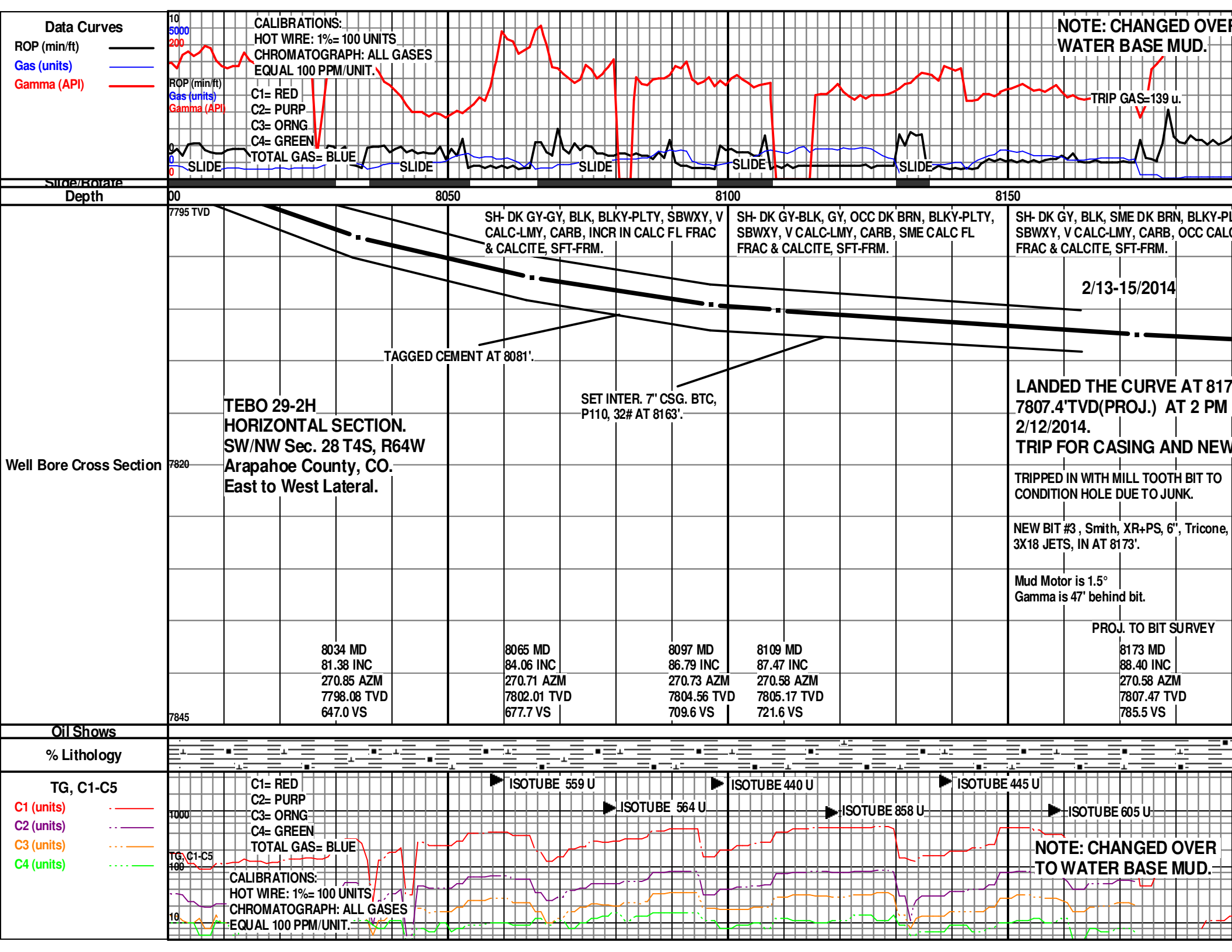
⌚ Rounded
⌚ Subrnd
⌚ Subang

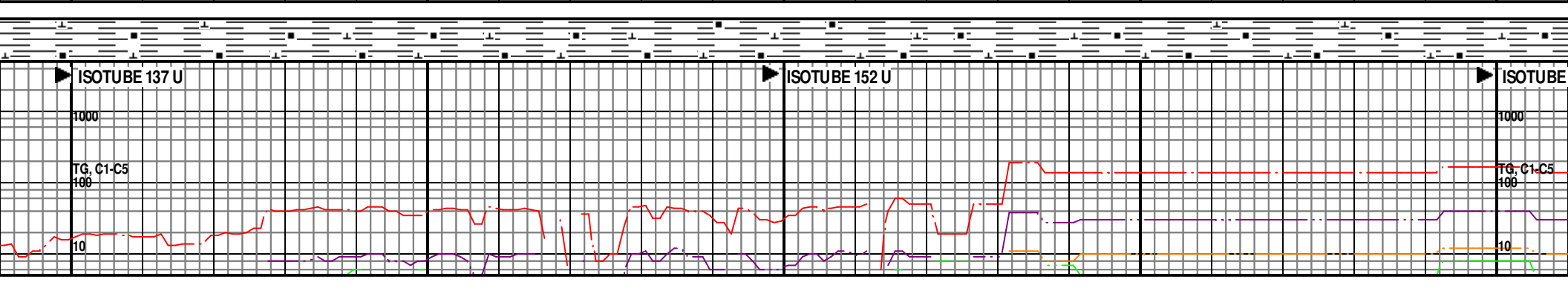
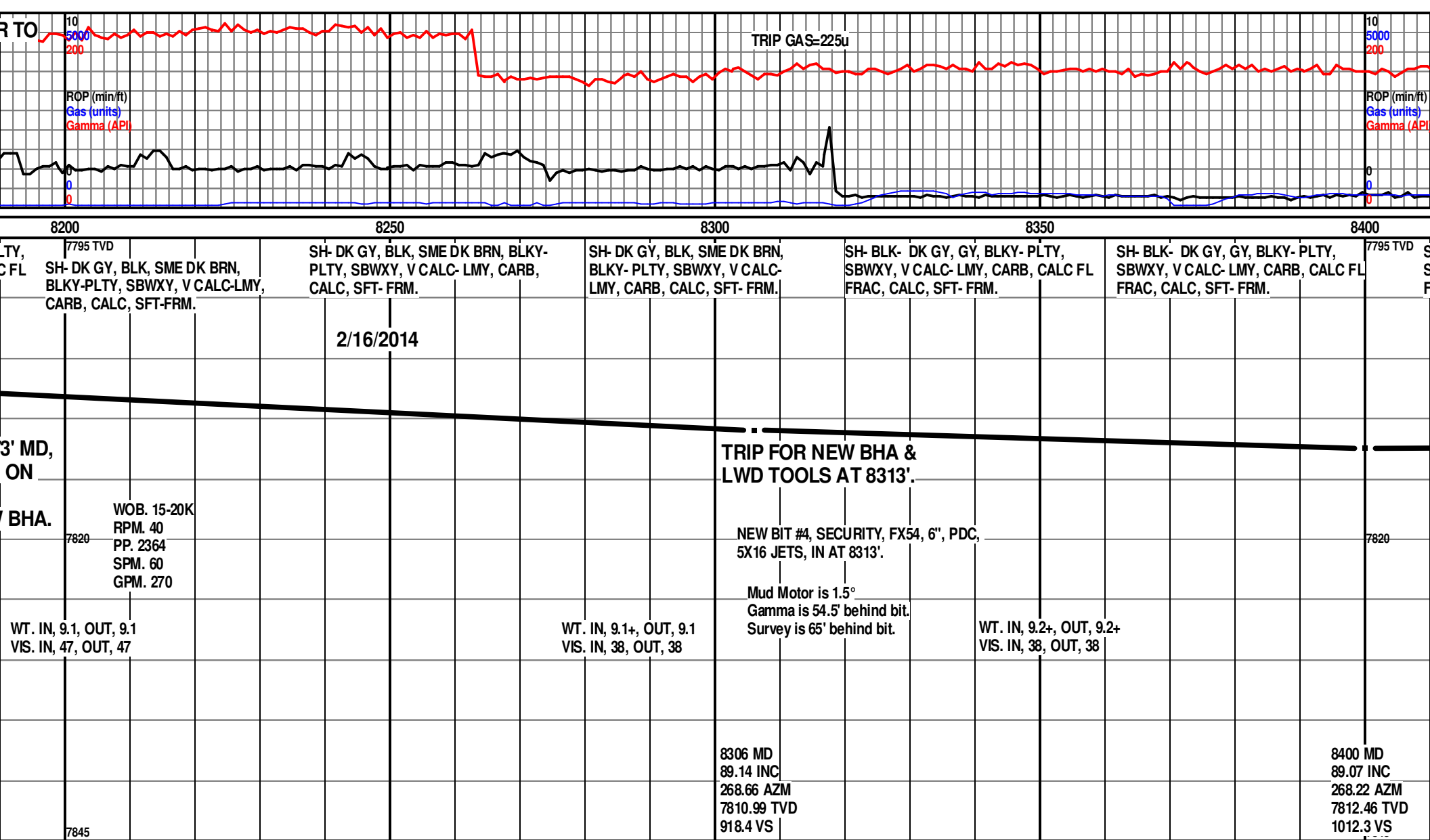


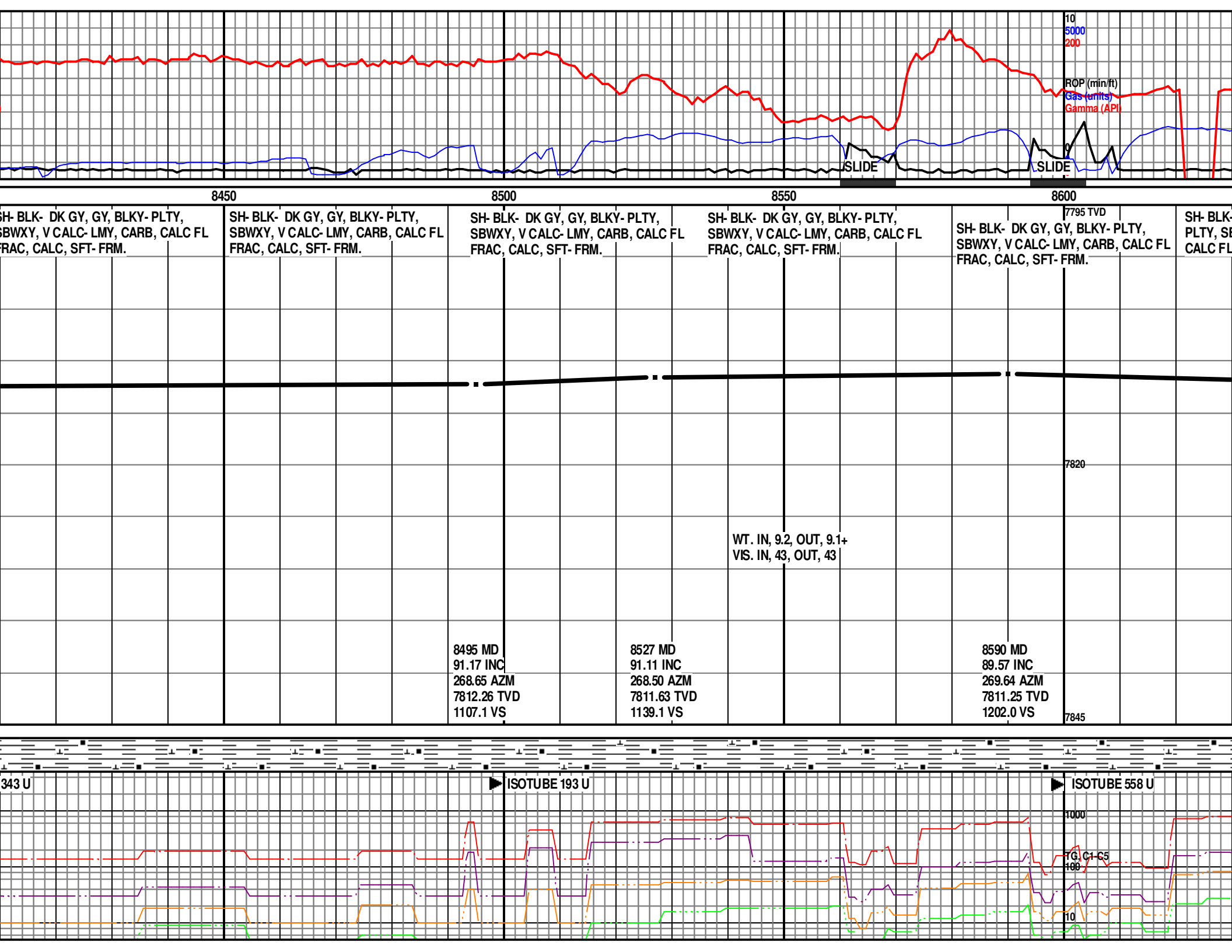
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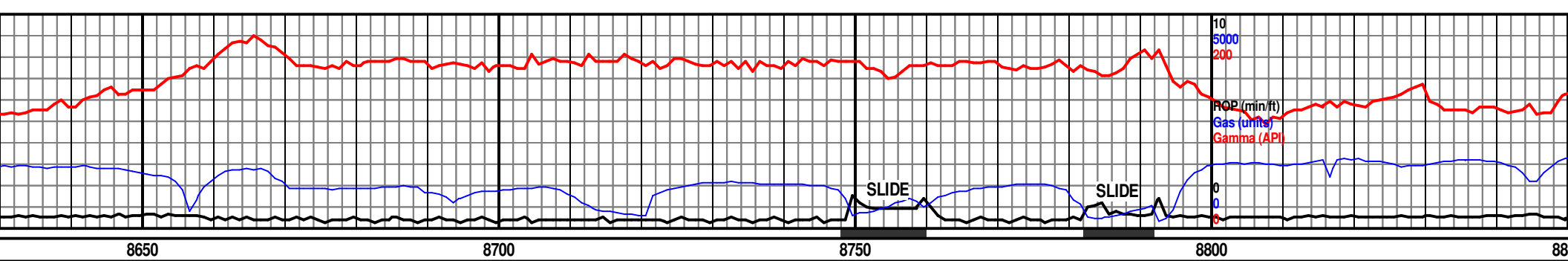
SORTING

⌚ Well
⌚ Moderate
⌚ Poor









DK GY, GY, SM LT GY, BLKY- BWXY, V CALC- LMY, CARB, FRAC, CALC, SFT- FRM.	SH- BLK- DK GY, GY, SM LT GY, BLKY- PLTY, SBWXY, V CALC- LMY, CARB, CALC FL FRAC, CALC, SFT- FRM.	SH- BLK- DK GY, GY, SM LT GY, BLKY- PLTY, SBWXY, V CALC- LMY, CARB, CALC FL FRAC, CALC, SFT- FRM.	SH- BLK- DK GY, GY, SM LT GY, BLKY- PLTY, SBWXY, V CALC- LMY, CARB, CALC FL FRAC, CALC, SFT- FRM.	7795 TVD SH- BLK- DK GY, GY, SM LT GY, BLKY- PLTY, SBWXY, V CALC- LMY, CARB, CALC FL FRAC, CALC, SFT- FRM.	SH- BLK- PLTY, S FL FRAC
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2/17/2014

WT. 9.20, VIS. 43, PV. 19, YP. 18, WL.
3.8, FC. 1/32, CORR. SLDS. 4.7, MBT.
12.5, pH. 9.0, CL. 2400, LGS/HGS.
2.8/1.9%.

WOB. 5-6K
RPM. 65
PP. 3284
SPM. 60
GPM. 270

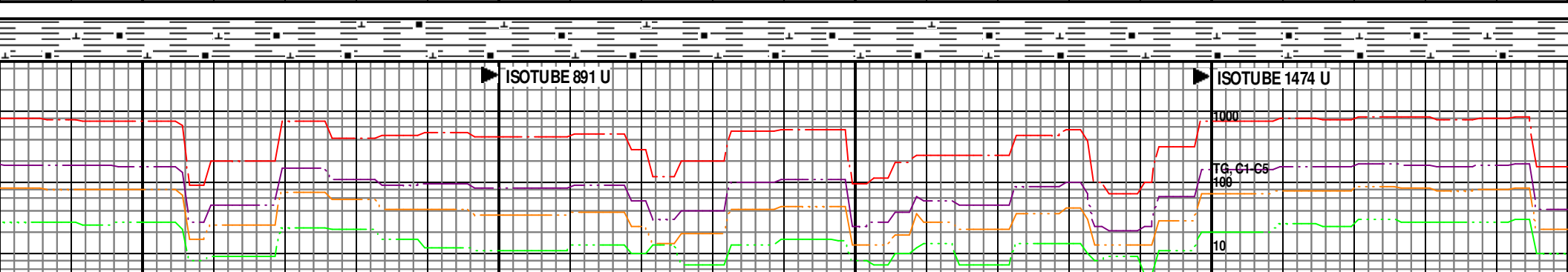
WT. IN, 9.2, OUT, 9.2
VIS. IN, 43, OUT, 50

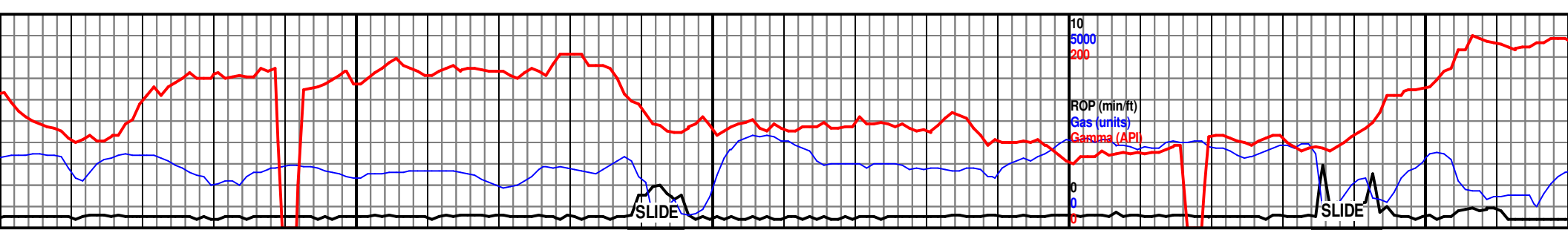
8685 MD
88.83 INC
271.16 AZM
7812.58 TVD
1297.0 VS

8780 MD
87.41 INC
275.46 AZM
7815.70 TVD
1391.9 VS

7820

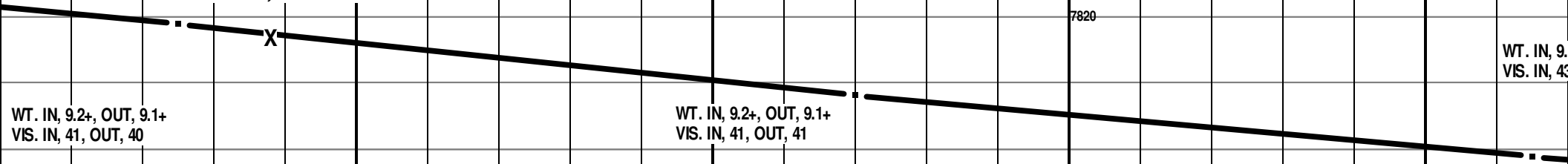
7845





8850	8900	8950	9000	9050
SH- BLK- DK GY, GY, SM LT GY, BLKY- PLTY, SBWXY, V CALC- LMY, CARB, CALC FL FRAC, CALC, SFT- FRM.	SH- BLK- DK GY, GY, SM LT GY, BLKY- PLTY, SBWXY, V CALC- LMY, CARB, CALC FL FRAC, CALC, SFT- FRM.	SH- BLK- DK GY, GY, SM LT GY, BLKY- PLTY, SBWXY, V CALC- LMY, CARB, CALC FL FRAC, CALC, SFT- FRM.	SH- BLK- DK GY, GY, SM LT GY, BLKY- PLTY, SBWXY, V CALC- LMY, CARB, CALC FL FRAC, CALC, SFT- FRM.	SH- BLK- DK GY, GY, SM LT GY, BLKY- PLTY, SBWXY, V CALC- LMY, CARB, CALC FL FRAC, CALC, SFT- FRM.

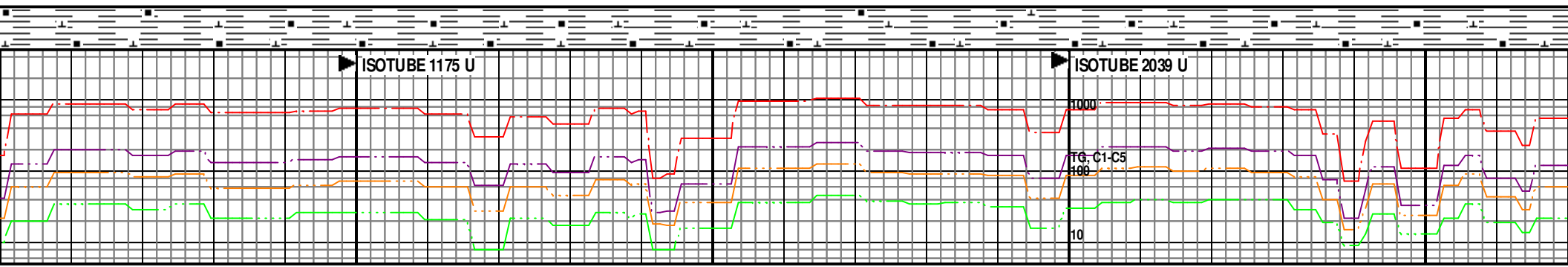
CP#1, TARGET @ 1500' VS=
8888' MD, 7822' TVD.

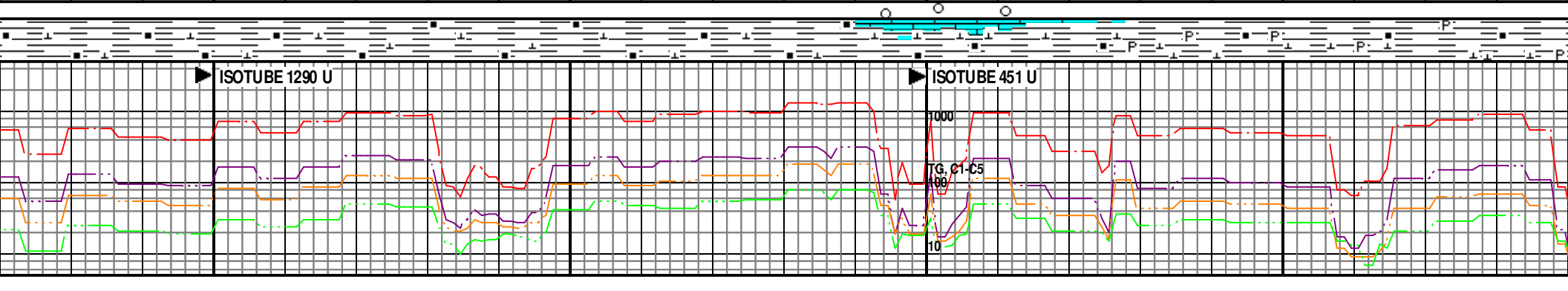
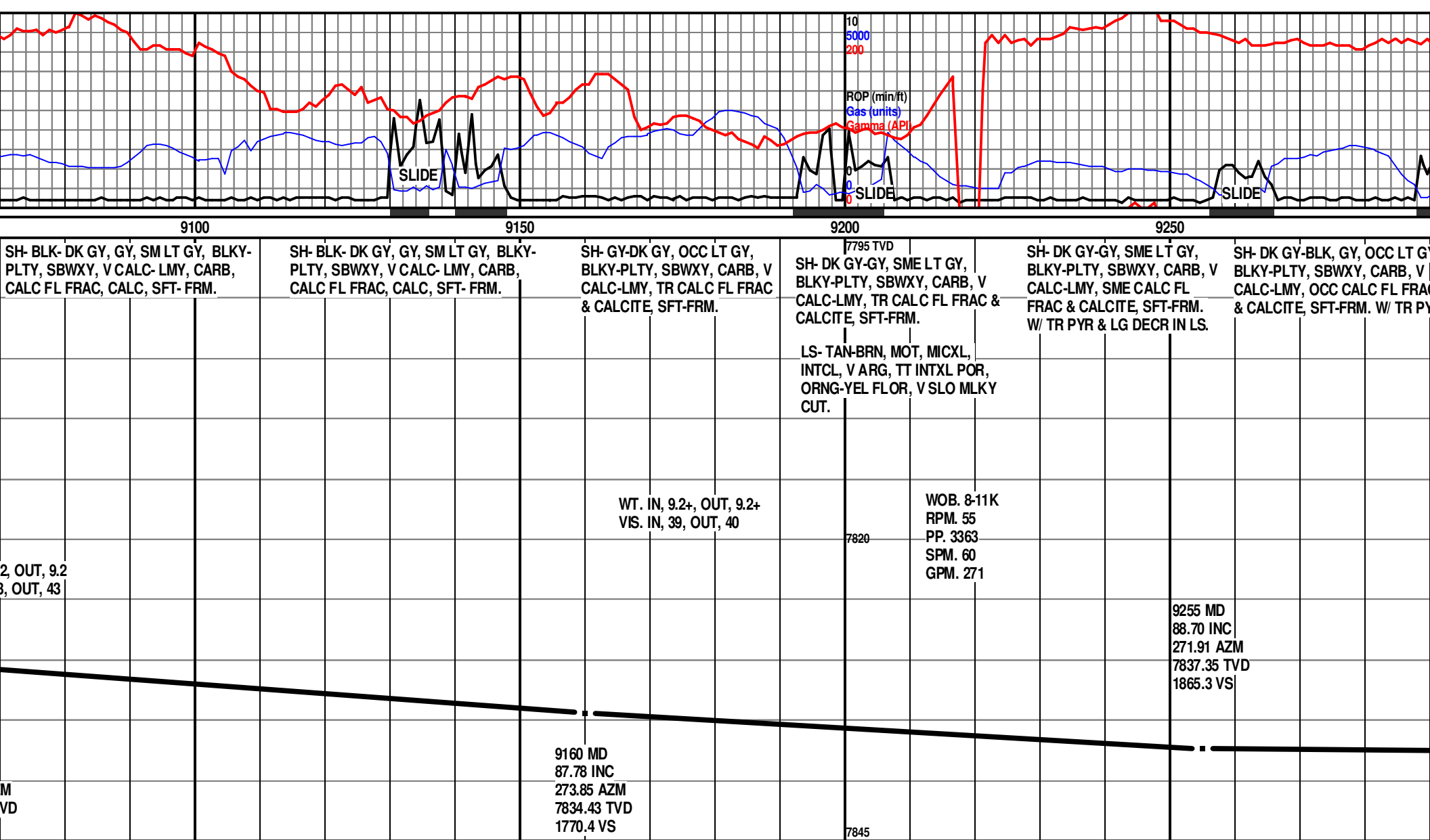


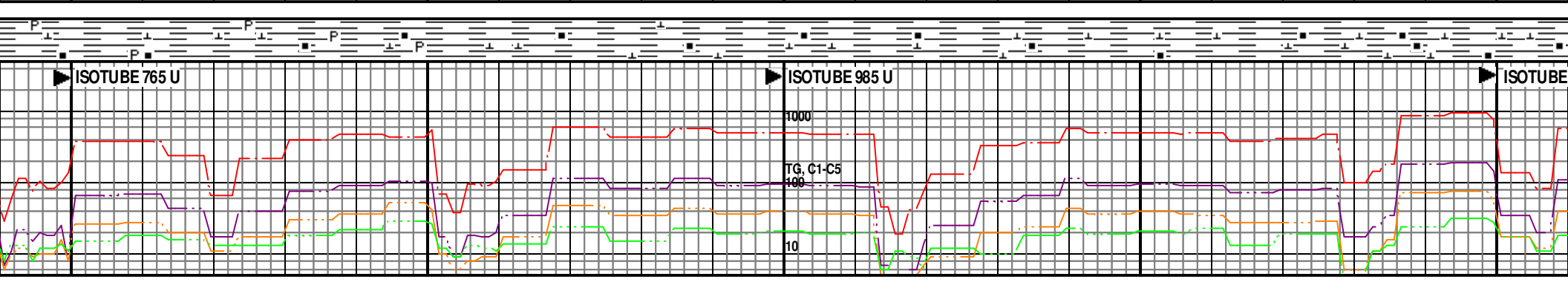
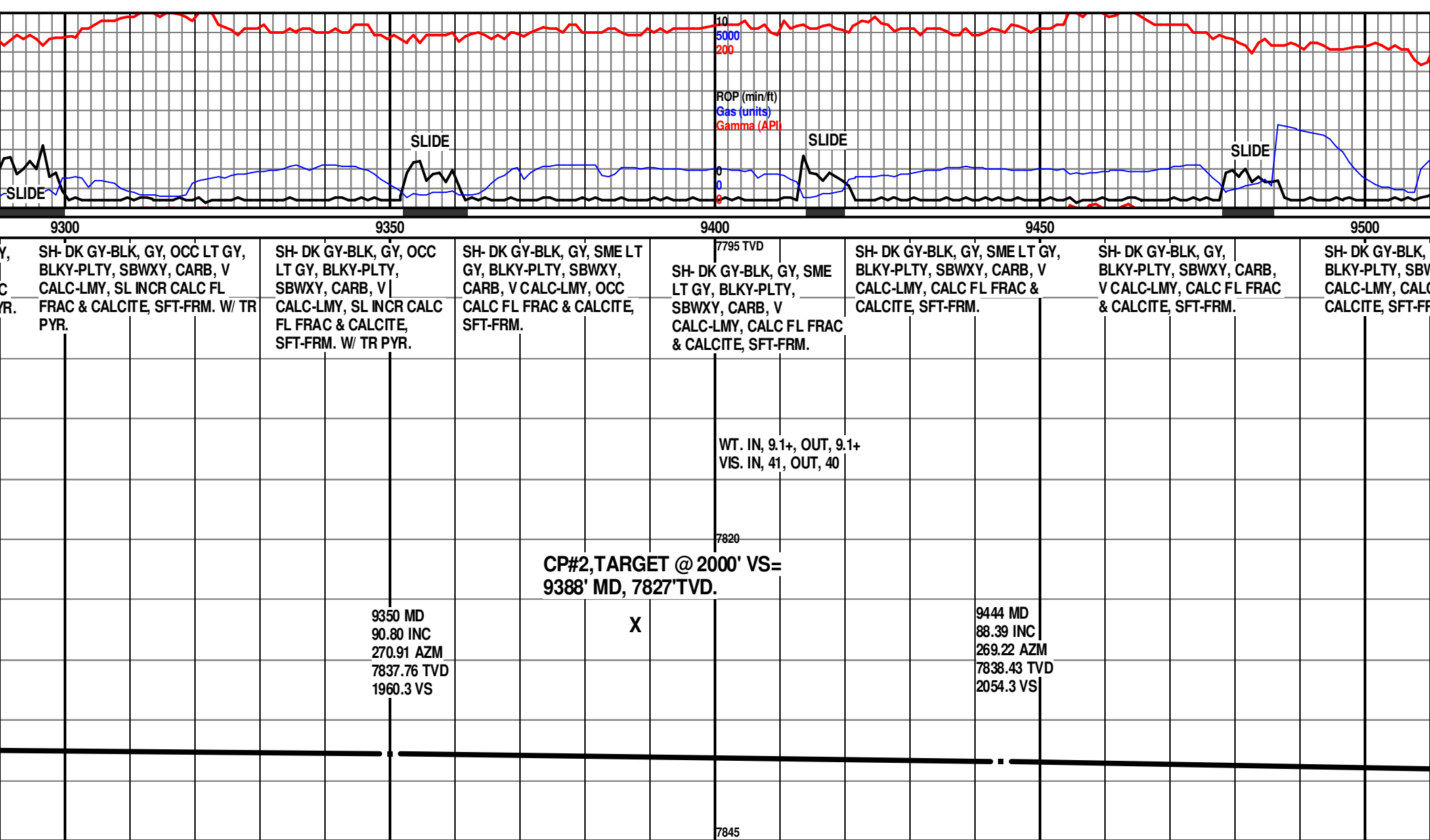
8875 MD
86.66 INC
276.40 AZM
7820.61 TVD
1486.4 VS

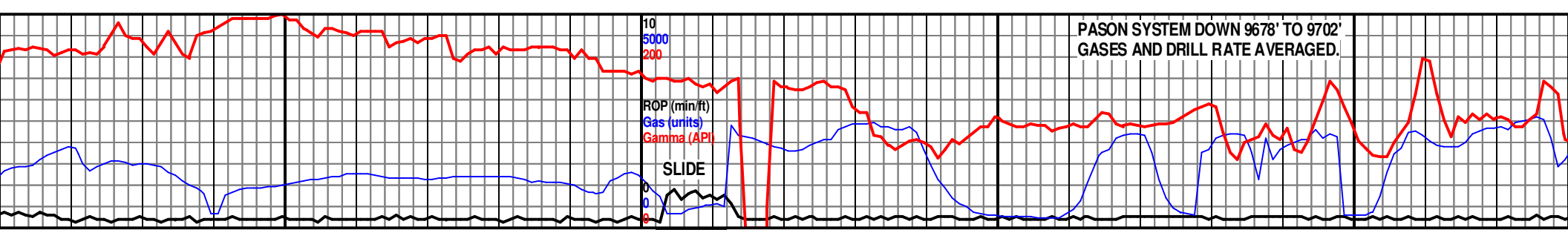
8970 MD
86.85 INC
276.01 AZM
7825.99 TVD
1581.0 VS

9065 MD
87.59 INC
274.93 AZ
7830.60 TVD
1675.6 VS

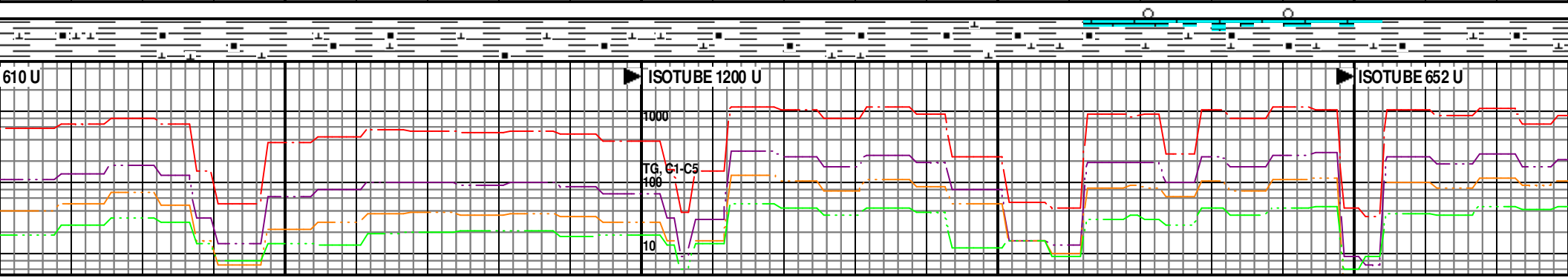


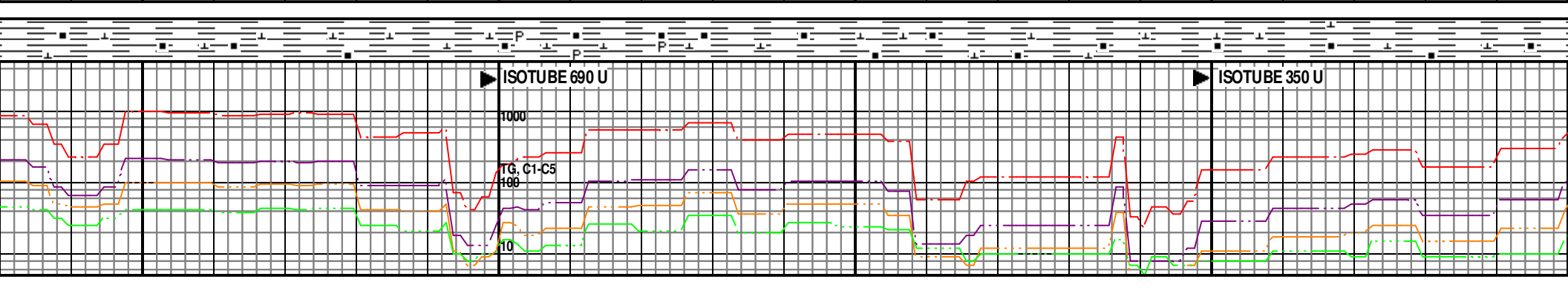
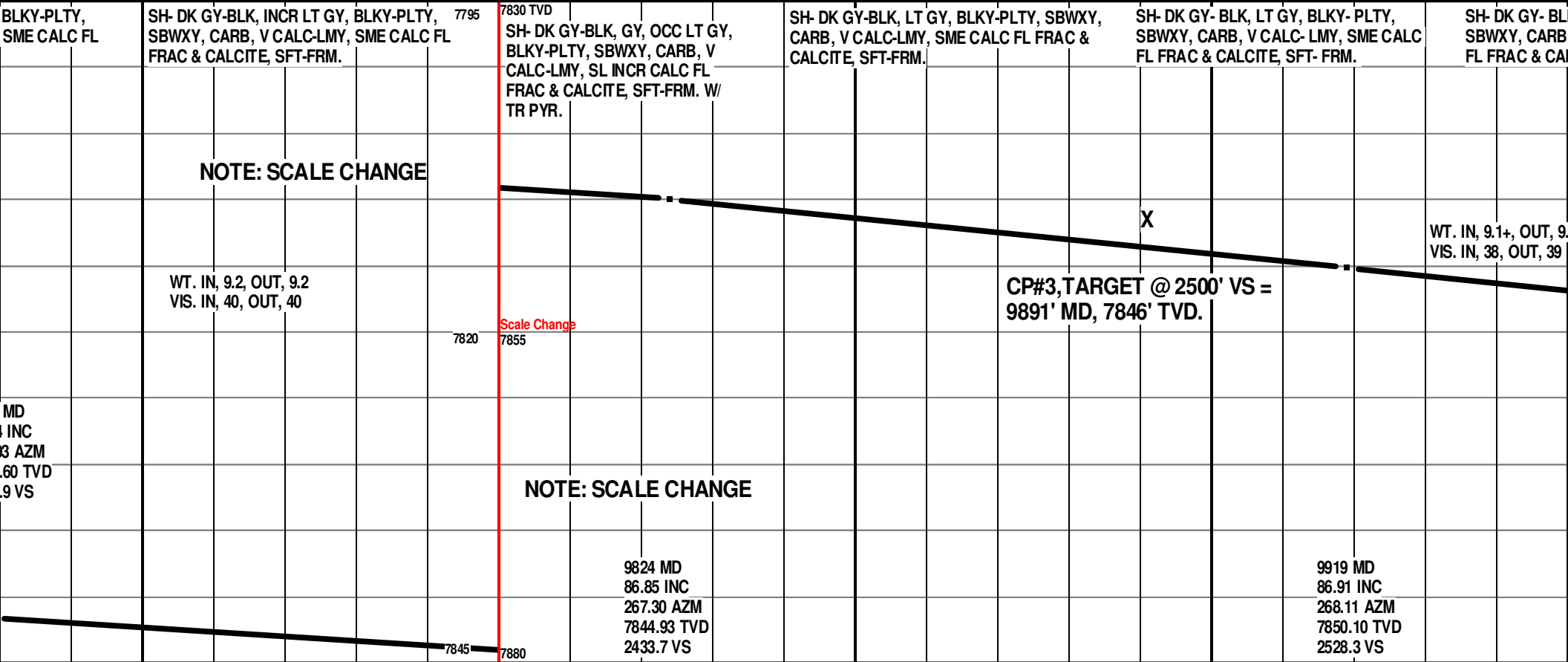
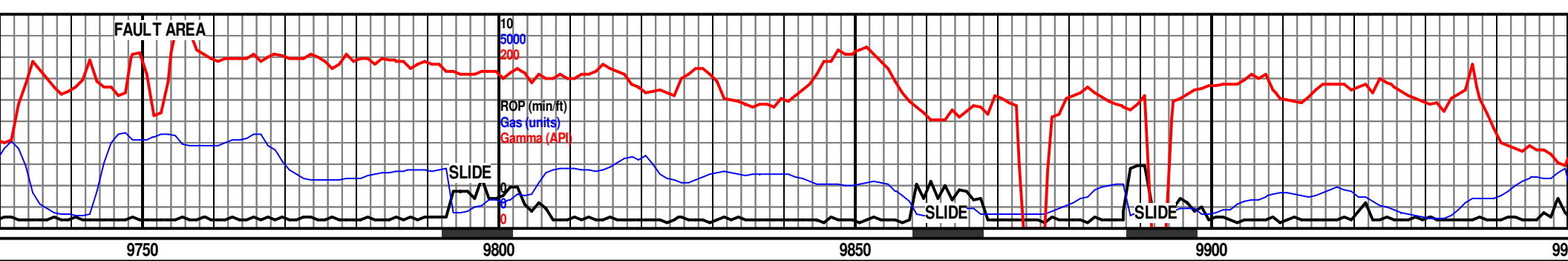


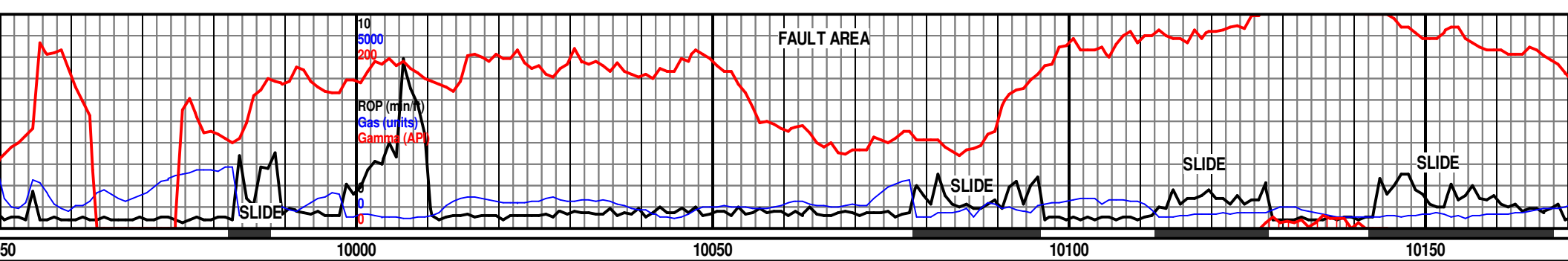




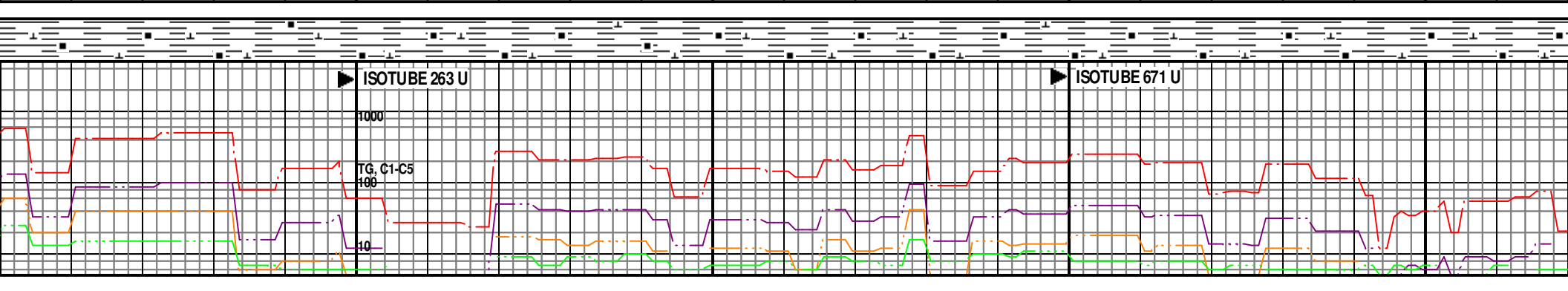
9550	9600	9650	9700
GY, VXY, CARB, V C FL FRAC & RM.	SH- DK GY-BLK, GY, BLKY-PLTY, SBWXY, CARB, V CALC-LMY, SME CALC FL FRAC & CALCITE, SFT-FRM.	SH- DK GY-BLK, GY, BLKY-PLTY, SBWXY, CARB, V CALC-LMY, SME CALC FL FRAC & CALCITE, SFT-FRM.	SH- DK GY-BLK, GY-LT GY, BLKY-PLTY, SBWXY, CARB, V CALC-LMY, SME CALC FL FRAC & CALCITE, SFT-FRM. W/ TR LS- TAN-BRN, MOT, MICXL, INTCL, V ARG, TT INTXL POR, ORNG-YEL FLOR, V SLO MLKY CUT.
SH- DK GY-BLK, INCR LT GY, SBWXY, CARB, V CALC-LMY, FRAC & CALCITE, SFT-FRM.			

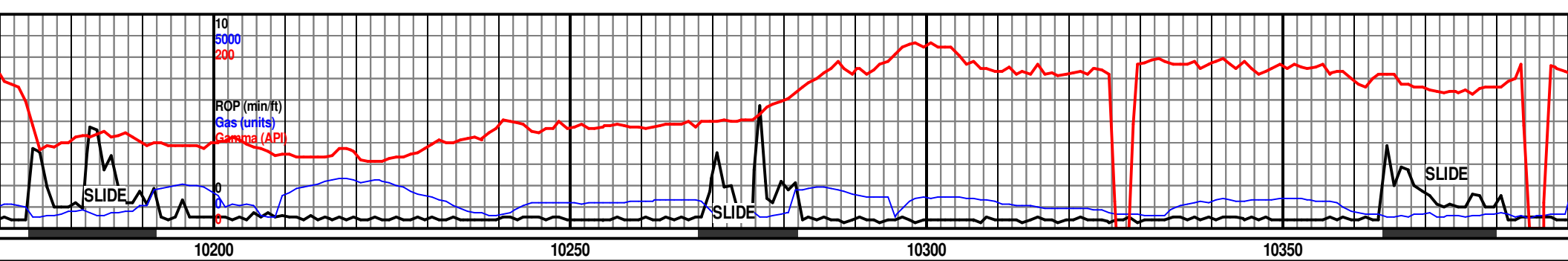




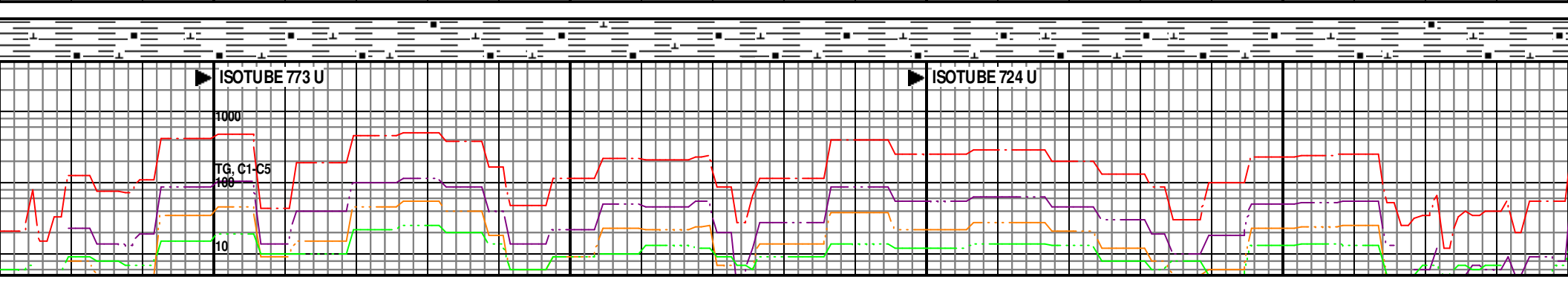


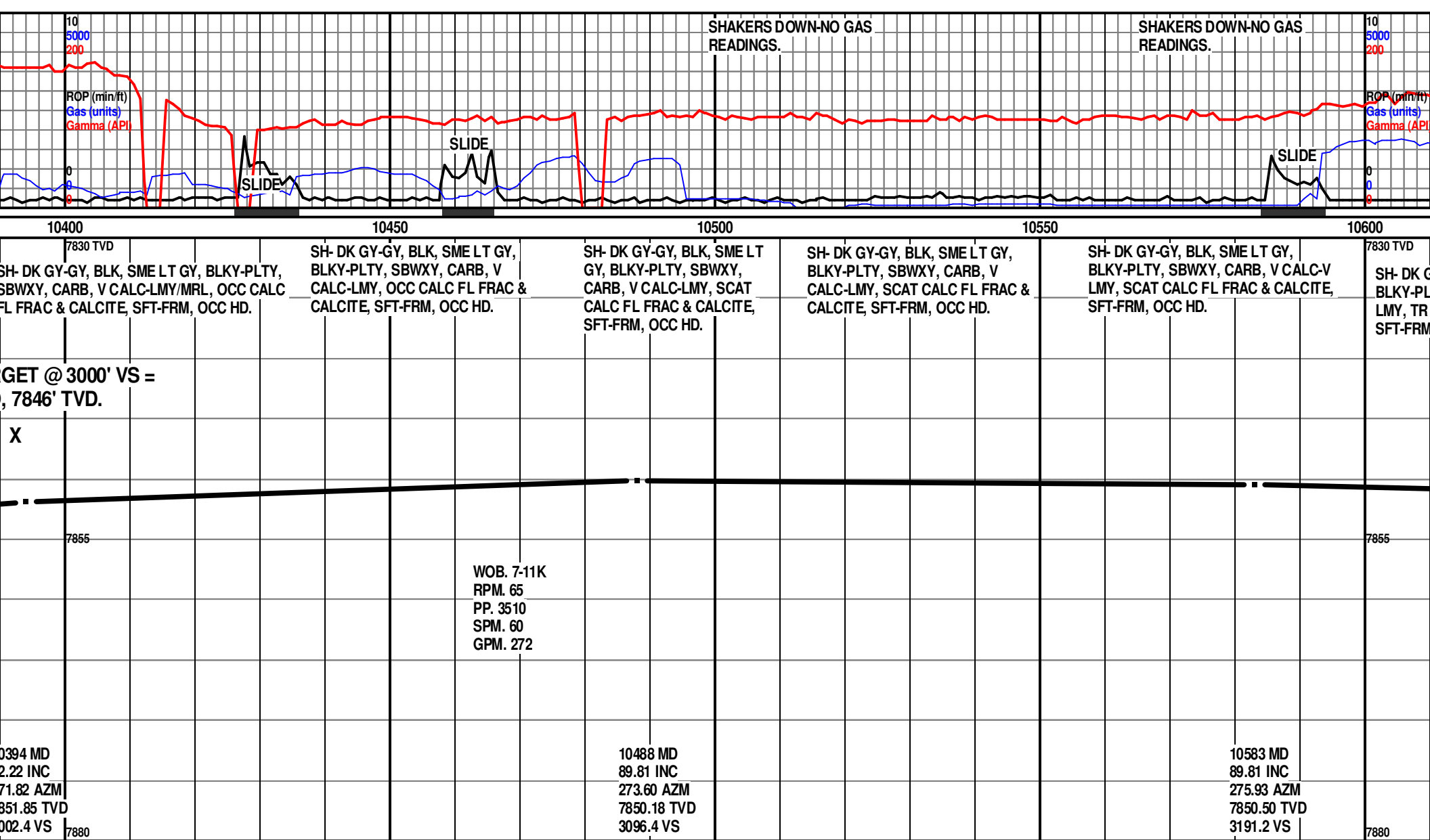
K, LT GY, BLKY- PLTY, V CALC- LMY, SME CALC CITE, SFT- FRM.	SH- DK GY- BLK, LT GY, BLKY- PLTY, SBWXY, CARB, V CALC- LMY, SME CALC FL FRAC & INCR CALCITE, SFT- FRM.	SH- DK GY- BLK, LT GY, BLKY- PLTY, SBWXY, CARB, V CALC- LMY, SME CALC FL FRAC & CALCITE, SFT- FRM.	SH- DK GY- BLK, LT GY, BLKY- PLTY, SBWXY, CARB, V CALC- LMY, SME CALC FL FRAC & CALCITE, SFT- FRM.	SH- DK GY- BLK, LT GY, BLKY- PLTY, SBWXY, CARB, V CALC- LMY, SME CALC FL FRAC & CALCITE, SFT- FRM.	SH- DK GY- BLK, LT GY, BLKY- PLTY, SBWXY, CARB, V CALC- LMY, SME CALC FL FRAC & CALCITE, SFT- FRM.
<p>WT. IN, 9.1+, OUT, 9.1+ VIS. IN, 40, OUT, 40</p> <p>WT. 9.20, VIS. 40, PV. 14, YP. 12, WL. 3.6, FC. 1/32, CORR. SLDS. 5.7, MBT. 10.0, pH. 8.0, CL. 2400, LGS/HGS. 4.7/1.0%.</p>	<p>7830 TVD</p> <p>10014 MD 86.66 INC 268.38 AZM 7855.43 TVD 2623.0 VS</p>			<p>2/18/2014</p> <p>WOB. 5K RPM. 65 PP. 3140 SPM. 60 GPM. 270</p> <p>10109 MD 87.84 INC 267.56 AZM 7859.98 TVD 2717.8 VS</p>	<p>WT. IN, 9.1+ VIS. IN, 40</p>





Y- BLK, LT GY, BLKY- PLTY, CARB, V CALC- LMY, SME CALC & CALCITE, SFT- FRM.	SH- DK GY- BLK, LT GY, BLKY- PLTY, SBWXY, CARB, V CALC- LMY, SME CALC FL FRAC & CALCITE, SFT- FRM.	SH- DK GY- BLK, LT GY, BLKY- PLTY, SBWXY, CARB, V CALC- LMY, SME CALC FL FRAC & CALCITE, SFT- FRM.	SH- DK GY- BLK, LT GY, BLKY- PLTY, SBWXY, CARB, V CALC- LMY, SME CALC FL FRAC & CALCITE, SFT- FRM.	SH- DK GY- BLK, LT GY, BLKY- PLTY, SBWXY, CARB, V CALC- LMY, SME CALC FL FRAC & CALCITE, SFT- FRM.	CP#4, TAR 10392' MD
2, OUT, 9.2 , OUT, 40				WT. IN, 9.2, OUT, 9.2 VIS. IN, 40, OUT, 40	
7855					
10204 MD 92.35 INC 269.39 AZM 7859.83 TVD 2812.6 VS			10299 MD 92.53 INC 270.25 AZM 7855.78 TVD 2907.5 VS		
7880					





GET @ 3000' VS =
, 7846' TVD.

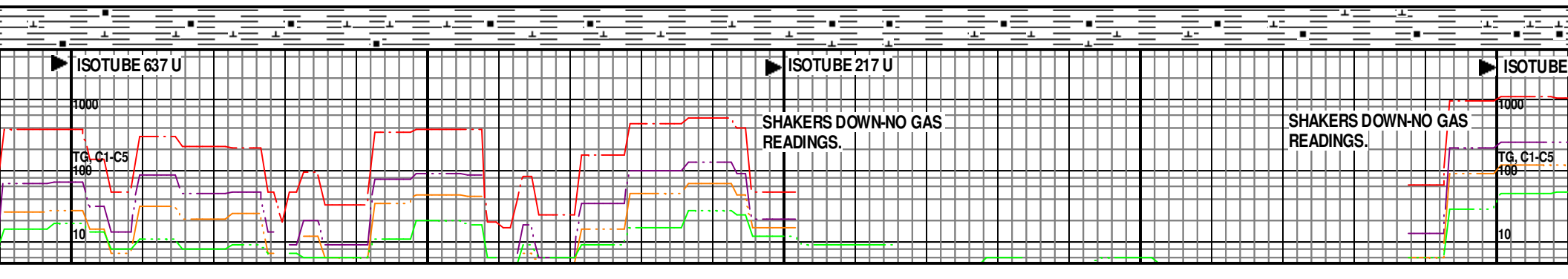
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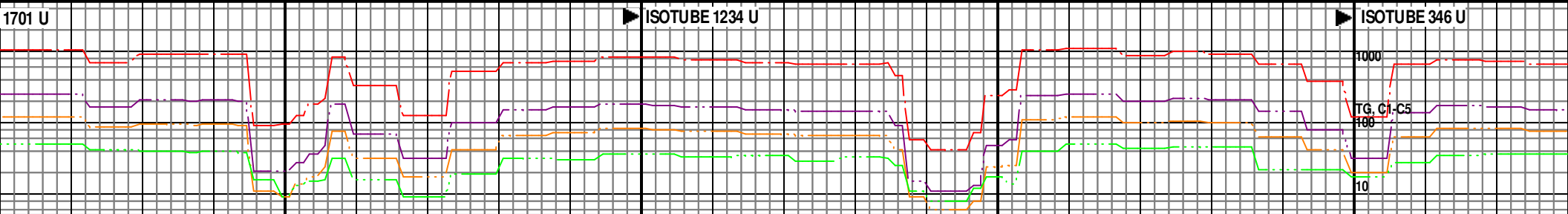
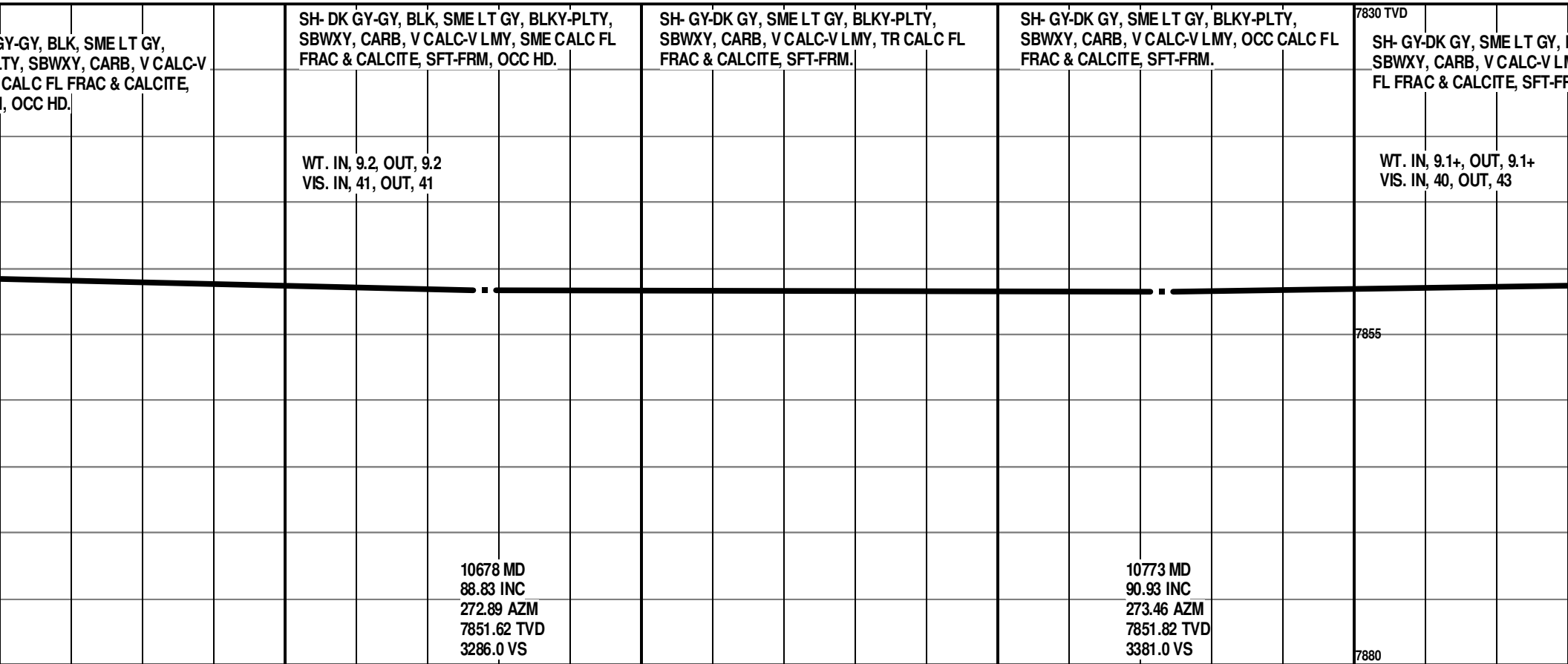
10394 MD
2.22 INC
71.82 AZM
7851.85 TVD
7880 VS

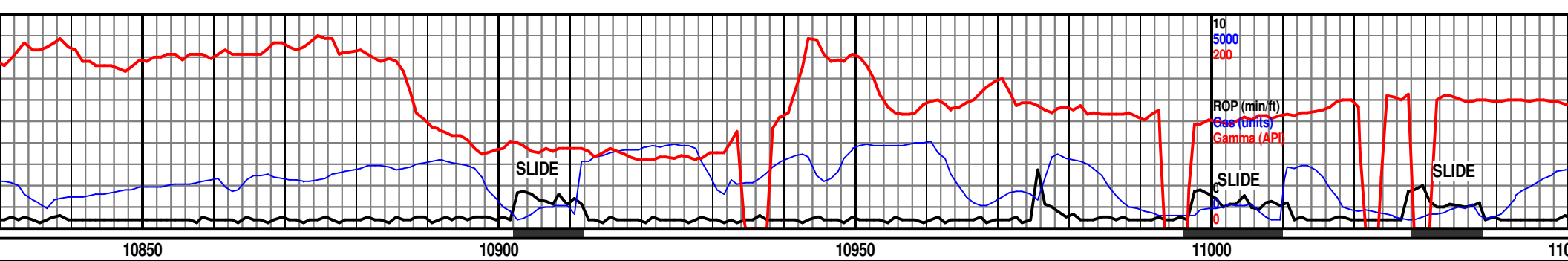
WOB. 7-11K
RPM. 65
PP. 3510
SPM. 60
GPM. 272

10488 MD
89.81 INC
273.60 AZM
7850.18 TVD
3096.4 VS

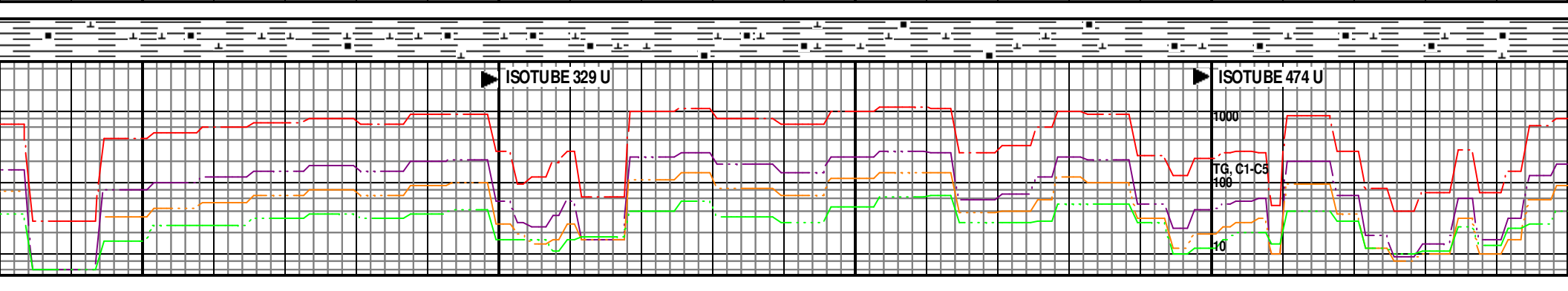
10583 MD
89.81 INC
275.93 AZM
7850.50 TVD
3191.2 VS

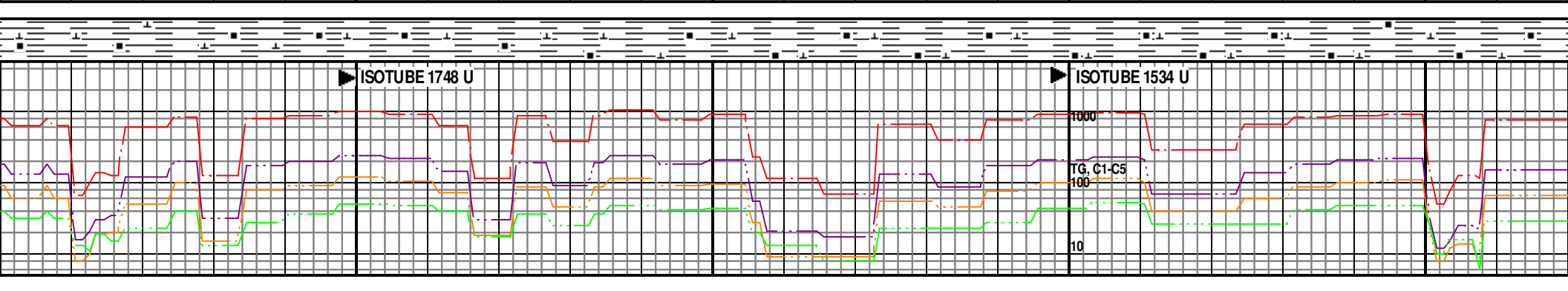
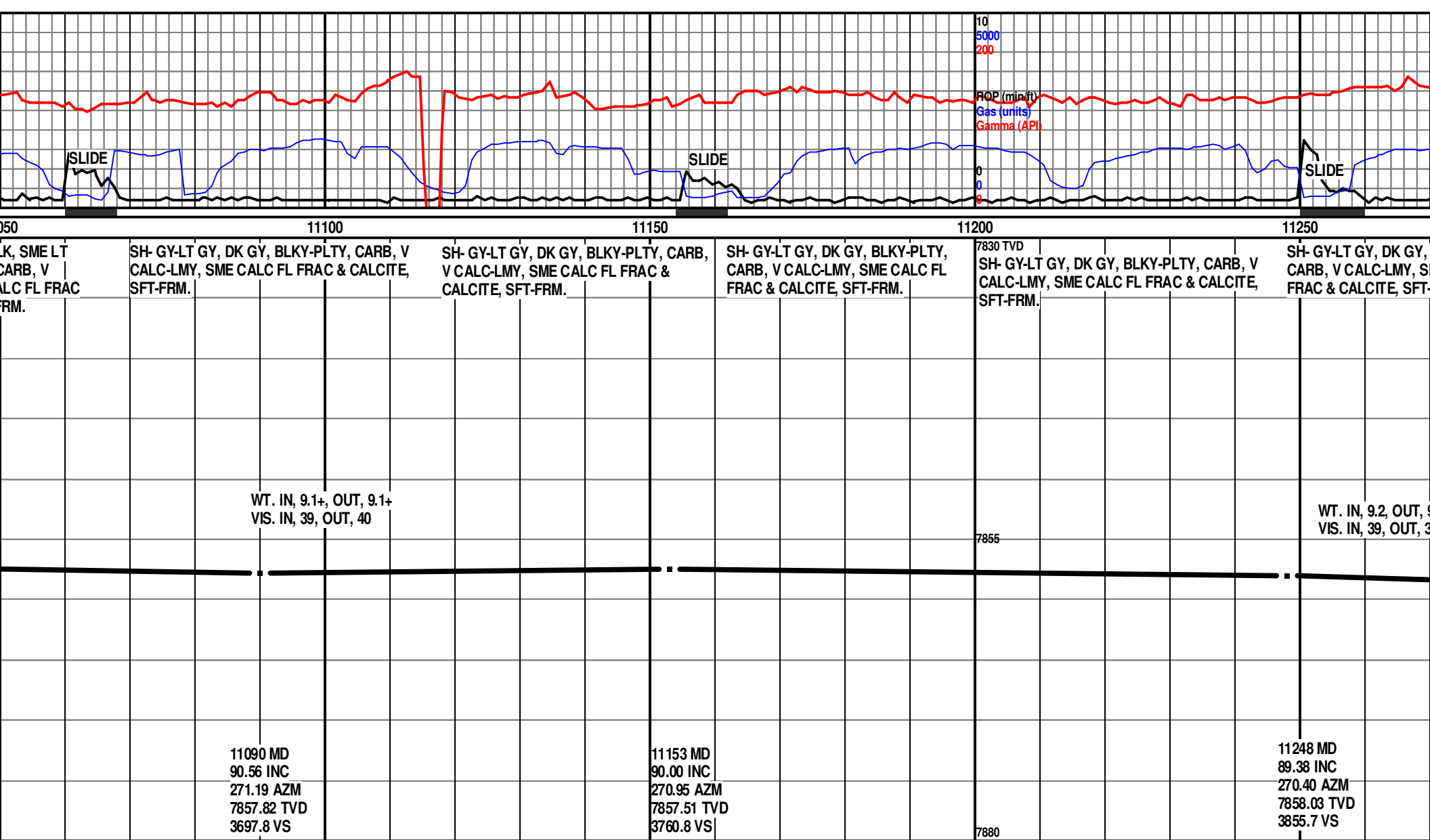


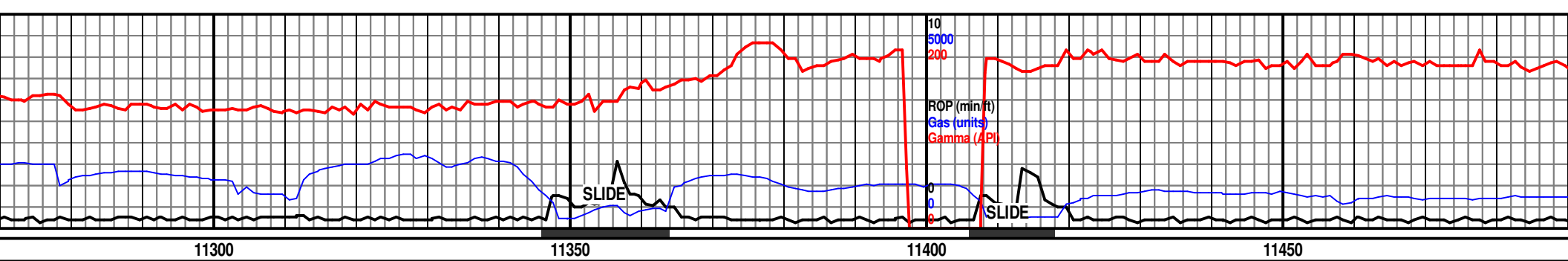




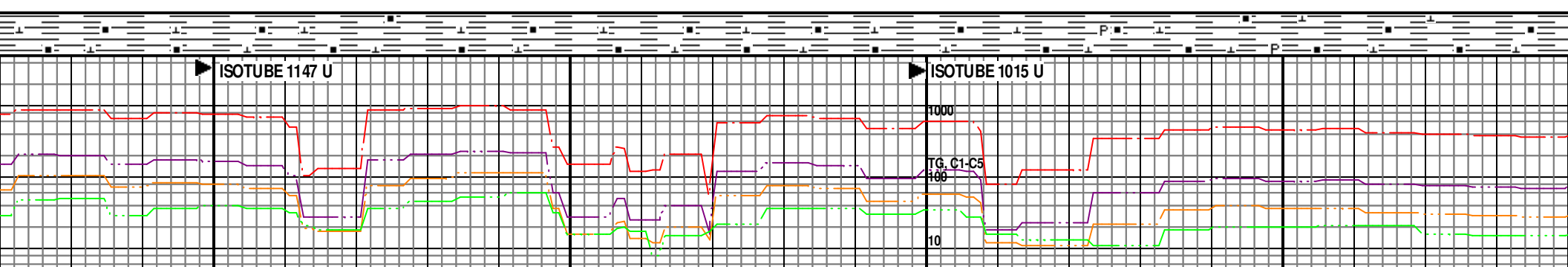
BLKY-PLTY, MY, OCC CALC RM.	SH- GY-DK GY, BLK, SME LT GY, BLKY-PLTY, SBWXY, CARB, V CALC-V LMY, TR CALC FL FRAC & CALCITE, SFT-FRM.	SH- GY-DK GY, BLK, SME LT GY, BLKY-PLTY, SBWXY, CARB, V CALC-V LMY, TR CALC FL FRAC & CALCITE, SFT-FRM.	SH- GY-DK GY, BLK, SME LT GY, BLKY-PLTY, CARB, V CALC-LMY, TR CALC FL FRAC & CALCITE, SFT-FRM. WT. IN, 9.1+, OUT, 9.1+ VIS. IN, 40, OUT, 40 WOB. 5.2K RPM. 65 PP. 3428 SPM. 60 GPM. 271	7830 TVD SH- GY-DK GY, BLK, SME LT GY, BLKY-PLTY, CARB, V CALC-LMY, TR CALC FL FRAC & CALCITE, SFT-FRM.	SH- GY-DK GY, BL GY, BLKY-PLTY, C CALC-LMY, TR CA & CALCITE, SFT-F
X					
	CP#5, TARGET @ 3500' VS = 10892' MD, 7850' TVD.				
		WT. IN, 9.1+, OUT, 9.1+ VIS. IN, 40, OUT, 42			
10868 MD 90.06 INC 271.85 AZM 7851.00 TVD 3475.9 VS			10963 MD 85.98 INC 270.03 AZM 7854.28 TVD 3570.9 VS	11026 MD 88.52 INC 270.03 AZM 7857.31 TVD 3633.8 VS	

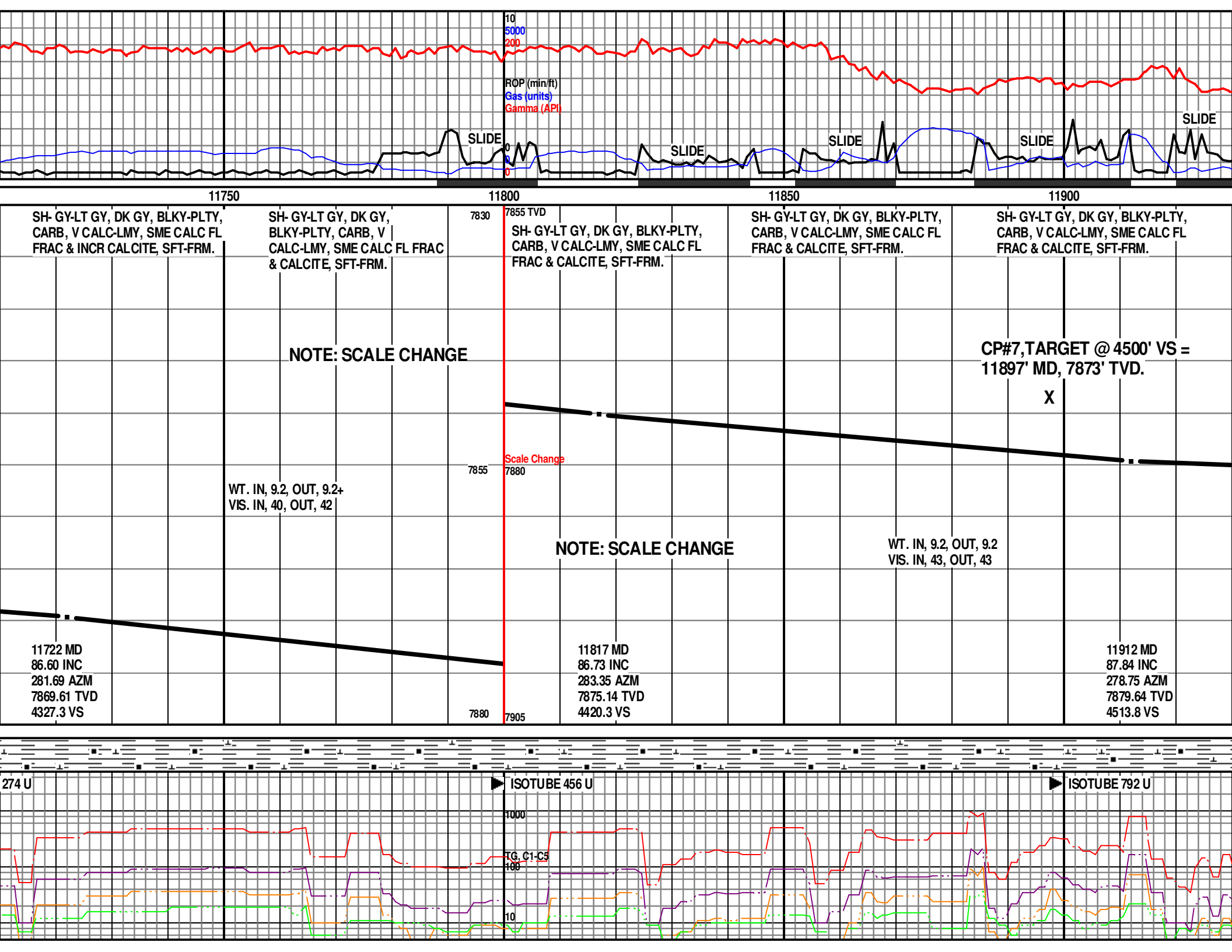


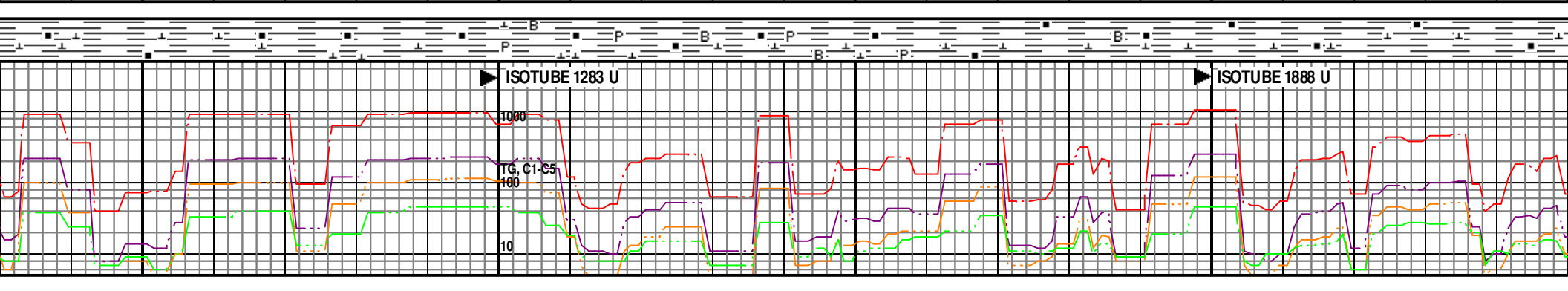
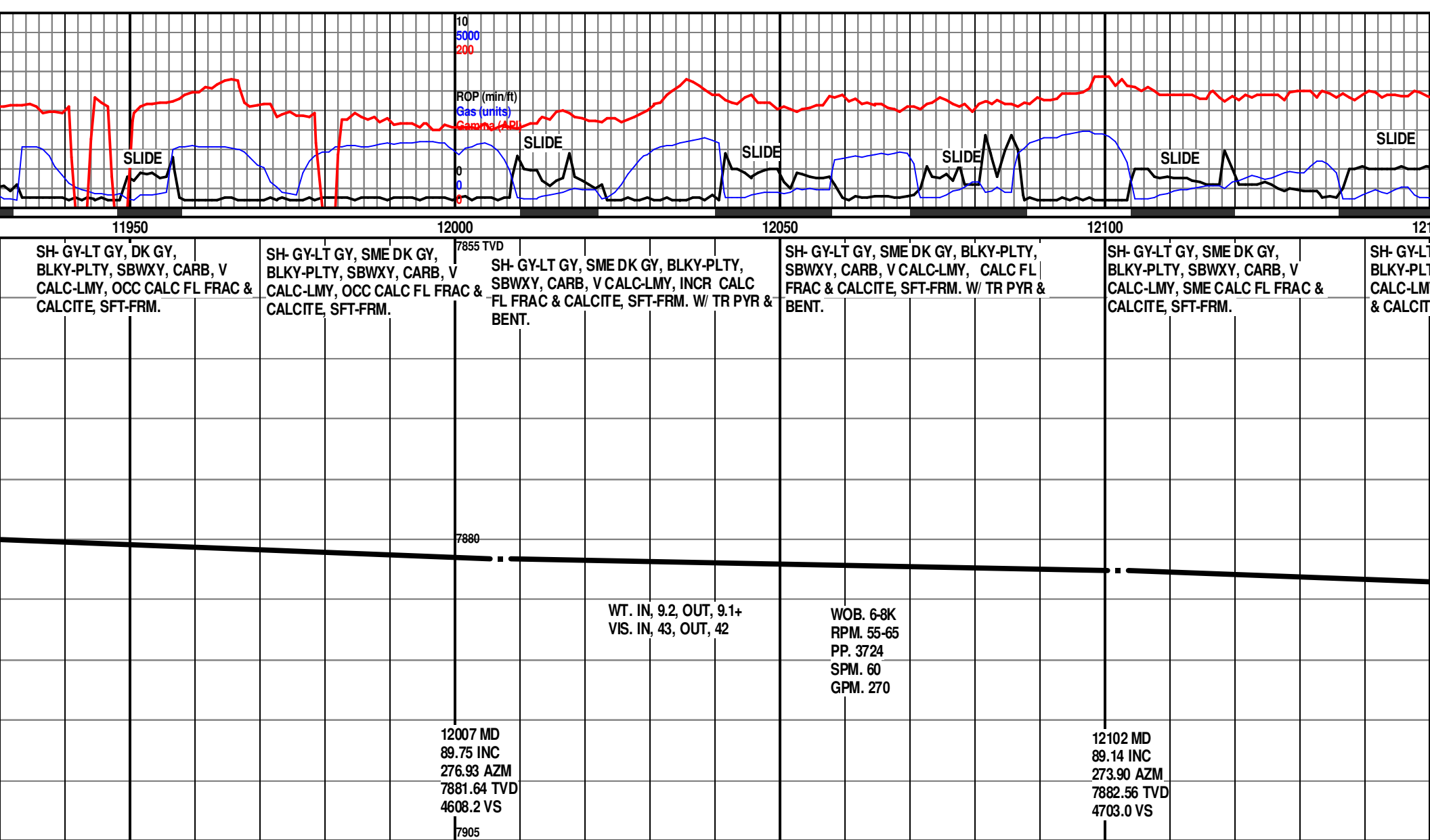


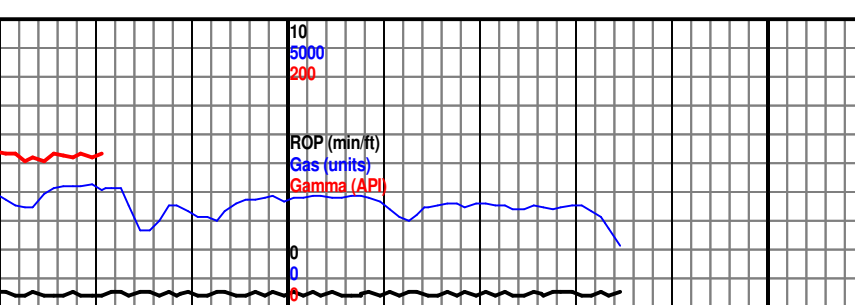


BLKY-PLTY, ME CALC FL -FRM.	SH- GY-LT GY, DK GY, BLKY-PLTY, CARB, V CALC-LMY, SME CALC FL FRAC & CALCITE, SFT-FRM.	SH- GY-LT GY, DK GY, BLKY-PLTY, CARB, V CALC-LMY, SME CALC FL FRAC & CALCITE, SFT-FRM.	SH- GY-LT GY, DK GY, BLKY-PLTY, CARB, V CALC-LMY, SME CALC FL FRAC & CALCITE, SFT-FRM.	SH- GY-LT GY, DK GY, BLKY-PLTY, CARB, V CALC-LMY, SME CALC FL FRAC & CALCITE, SFT-FRM, TR PYR.	SH- GY-LT GY, DK GY, BLKY-PLTY, CARB, V CALC-LMY, SME CALC FL FRAC & CALCITE, SFT-FRM.
			<p>7830 TVD</p> <p>WT. 9.20, VIS. 39, PV. 14, YP. 11, WL. 4.0, FC. 1/32, CORR. SLDS. 5.7, MBT. 10.0, pH. 8.3, CL. 2500, LGS/HGS. 4.7/1.0%.</p> <p>WT. IN, 9.2, OUT, 9.2 VIS. IN, 43, OUT, 41</p> <p>7855</p> <p>X</p> <p>CP#6,TARGET @ 4000' VS = 11390' MD, 7865' TVD.</p> <p>7880</p>		
		11343 MD 88.77 INC 270.36 AZM 7859.56 TVD 3950.7 VS		11438 MD 88.89 INC 273.18 AZM 7861.50 TVD 4045.7 VS	









12400				12450			
GY, BLKY-PLTY, LMY, SME CALC T-FRM.				SH- GY-LT GY, SME DK GY, BLKY-PLTY, SBWXY, CARB, V CALC-LMY, SME CALC FL FRAC & CALCITE, SFT-FRM.			
				WT. IN, 9.1, OUT, 9.1+ VIS. IN, 40, OUT, 41			
				CP#8, TARGET @ 5038' VS = 12436' MD, 7880' TVD.			
				X			
				REACHED TD AT 12436 ' MD, 7884.19 ' TVD(PROJ.) ON 2/19/2014 AT 1755 HRS. DRILLERS DEPTH.			
MD INC D AZM 78 TVD 9 VS				12436 MD 90.55 INC 269.25 AZM 7884.19 TVD 5036.8 VS			

