

HALLIBURTON										ANNULAR HOLE VOLUME LOG									
COMPANY					MERIT ENERGY COMPANY, LLC					COMPANY					MERIT ENERGY COMPANY, LLC				
WELL					JONES 19-1					WELL					JONES 19-1				
FIELD/BLOCK					WILDCAT					FIELD/BLOCK					WILDCAT				
COUNTY					FINNEY					COUNTY					FINNEY				
STATE					KANSAS					STATE					KANSAS				
Permanent Datum					GL					Other Services:									
Log measured from					KB					GTET									
Drilling measured from					KB					DSNT									
Date					03-Oct-16					Elev.: 2946.0 ft					2959.0 ft				
Run No.					ONE														
Depth - Driller					5200.0 ft														
Depth - Logger					5198.0 ft														
Bottom - Logged Interval					5188.0 ft														
Top - Logged Interval					1639.0 ft														
Casing - Driller					8.625 in					@					@				
Casing - Logger					1639.0 ft														
Bit Size					7.875 in					@					@				
Type Fluid in Hole					Water Based Mud														
Density					8.7 ppg					55.00 s/qt									
PH					10.50 pH					3.0 cpm									
Source of Sample					MUD PIT														
Rm @ Meas. Temperature					1.05 ohmm					@ 75.00 degF					@				
Rmf @ Meas. Temperature					0.89 ohmm					@ 75.00 degF					@				
Rmc @ Meas. Temperature					1.21 ohmm					@ 75.00 degF					@				
Source Rmf					CHART					CHART									
Rm @ BHT					0.64 ohmm					@ 127.0 degF					@				
Time Since Circulation					00:00 hr														
Time on Bottom					03-Oct-16 07:34														
Max. Rec. Temperature					127.00 degF					@ 5198.0 ft					@				
Equipment					11072142					EL RENO, OK									
Recorded By					MICHAEL RICHTER														
Witnessed By					RODNEY GONZALEZ										AUSTIN GARNIER				

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Service Ticket No.: 903576066						API No.: 15055224380000						PGM Version: WL INSITE R5.0.5 (Build 8)							
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE										RESISTIVITY SCALE CHANGES									
Date	Sample No.					Type Log	Depth	Scale Up Hole		Scale Down Hole									
Depth-Driller																			
Type Fluid in Hole																			
Density	Viscosity																		
Ph	Fluid Loss																		
Source of Sample						RESISTIVITY EQUIPMENT DATA													
Rm @ Meas. Temp		@		@		Run No.	Tool Type & No.	Pad Type		Tool Pos.		Other							
Rmf @ Meas. Temp.		@		@		ONE	ACRT	NONE		FREE		N/A							
Rmc @ Meas. Temp.		@		@			I-11026095												
Source Rmf	Rmc	CALC	CALC				S-11005908												
Rm @ BHT		0.64 ohmm @ 127 degF				@													
Rmf @ BHT		0.54 ohmm @ 127 degF				@													
Rmc @ BHT		0.74 ohmm @ 127 degF				@													
EQUIPMENT DATA																			
GAMMA				ACOUSTIC				DENSITY				NEUTRON							
Run No.		ONE		Run No.		ONE		Run No.		ONE		Run No.		ONE					
Serial No.		11048627		Serial No.		10939050		Serial No.		10809130		Serial No.		11019643					
Model No.		GTET		Model No.		BSAT		Model No.		SDLT		Model No.		DSNT					
Diameter		3.625"		No. of Cent.		0		Diameter		4.5"		Diameter		3.625"					
Detector Model No.		GTET		Spacing		0.5'		Log Type		GAM-GAM		Log Type		NEU-NEU					
Type		SCINT						Source Type		Cs-137		Source Type		Am241Be					
Length		8"		LSA [Y/N]				Serial No.		5168GW		Serial No.		DSN-424					
Distance to Source		N/A		FWDA [Y/N]				Strength		1.5 Ci		Strength		15 Ci					
LOGGING DATA																			
GENERAL				GAMMA		ACOUSTIC			DENSITY			NEUTRON							
Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix					
No.	From	To	ft/min	L	R	L	R		L	R		L	R						
ONE	TD	CSG	REC	0	150	30	-10	47.6 us/ft	30	-10	2.71 g/cc	30	-10	LIME					

DIRECTIONAL INFORMATION														
Maximum Deviation @									KOP @					
CLIENT REPORTED VERTICAL WELL														
Remarks: GTET-DSNT-SDLT-BSAT-ACRT RUN IN COMBINATION														
ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING														
POROSITY & MICROLOG LOGGED TO 3700' AS PER CLIENT REQUEST														
CHLORIDES REPORTED AT 1700ppm														
NO POST-CALS COMPLETED AS PER CLIENT REQUEST														
DUKE RIG 9														
CREW: J. ROBERSON, B. BARISHMAN														
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES -- EL RENO, OK -- 405.278.9685														
HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.														
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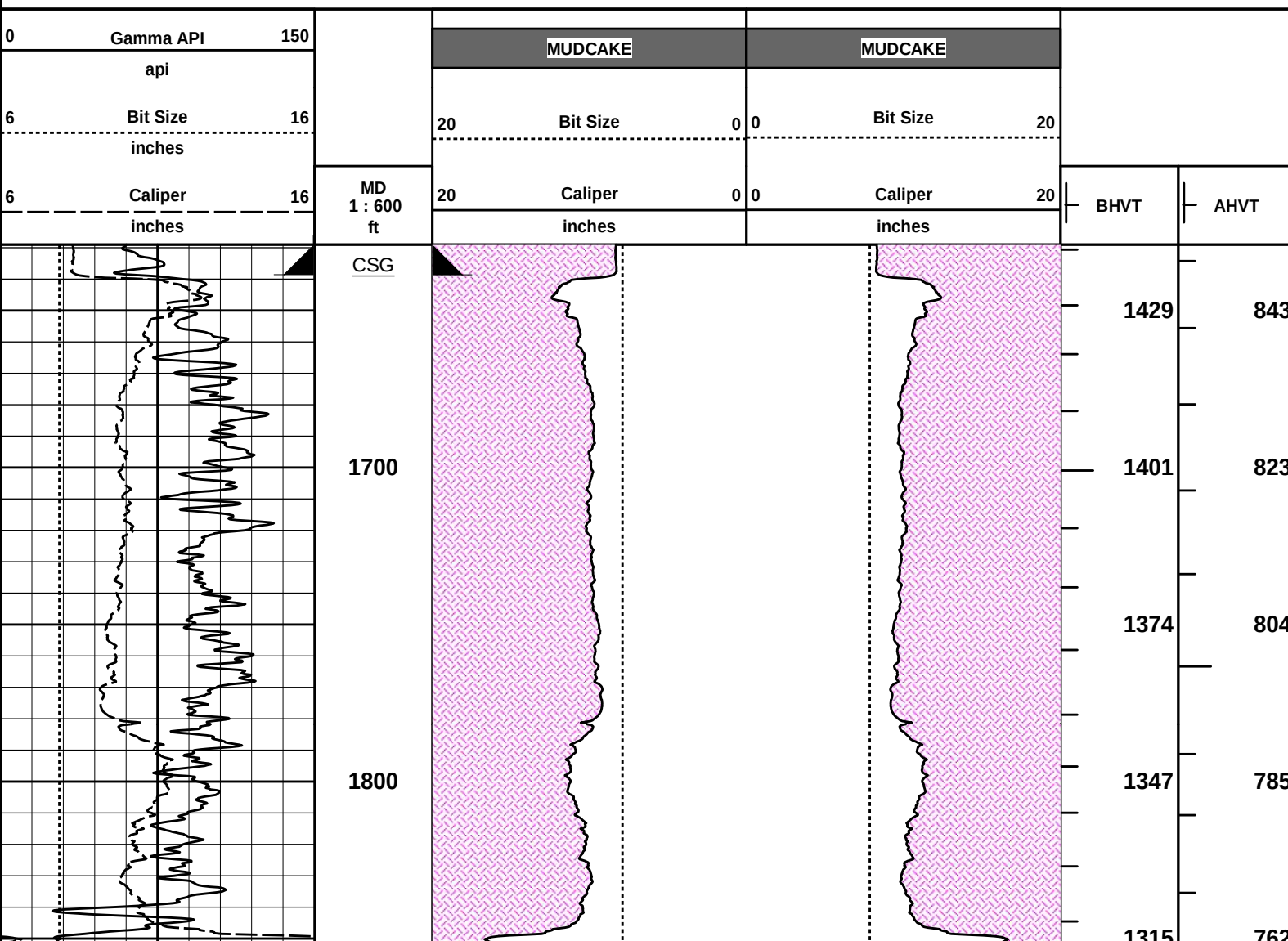
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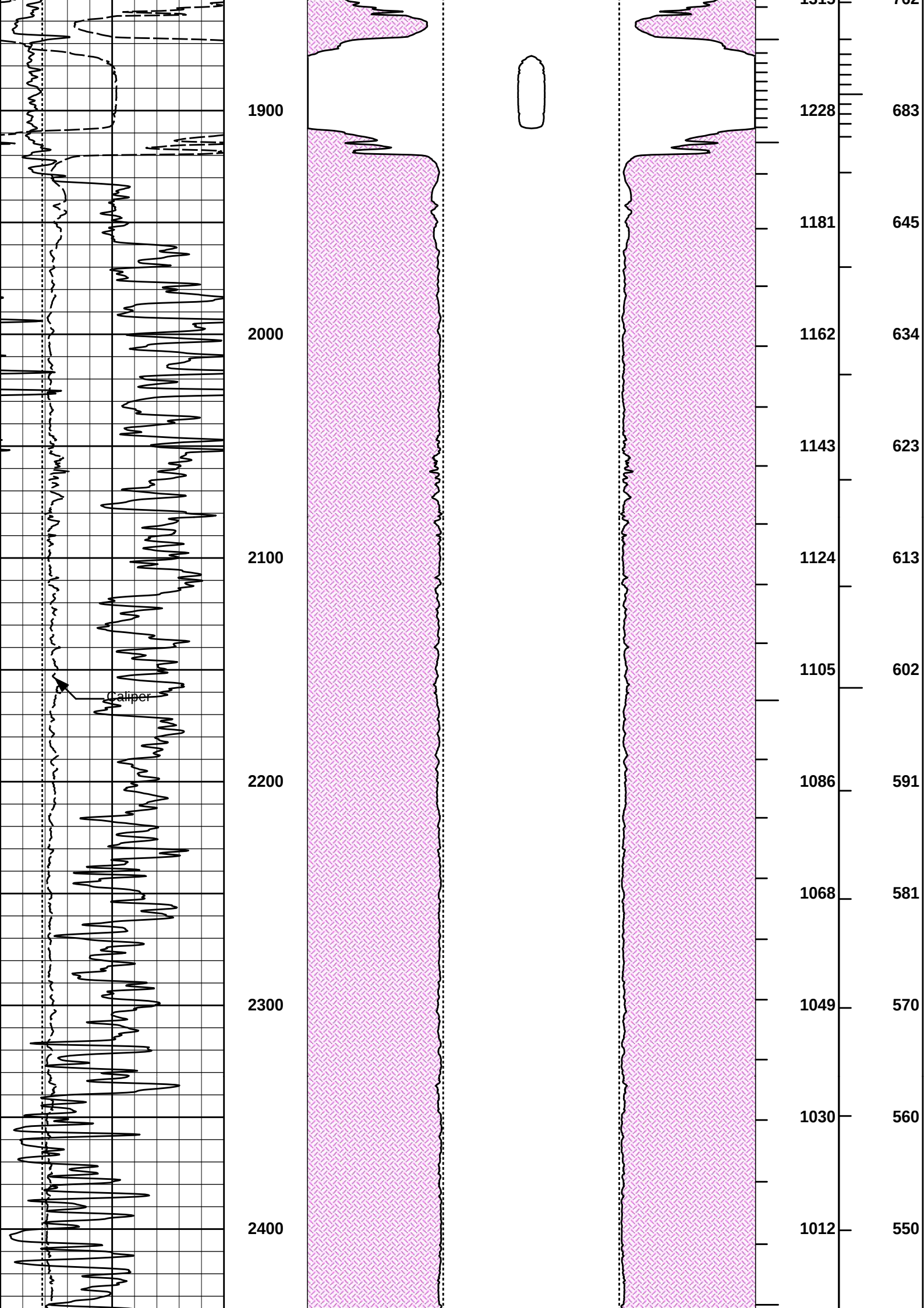
Plot Range: 1629 ft to 5208 ft

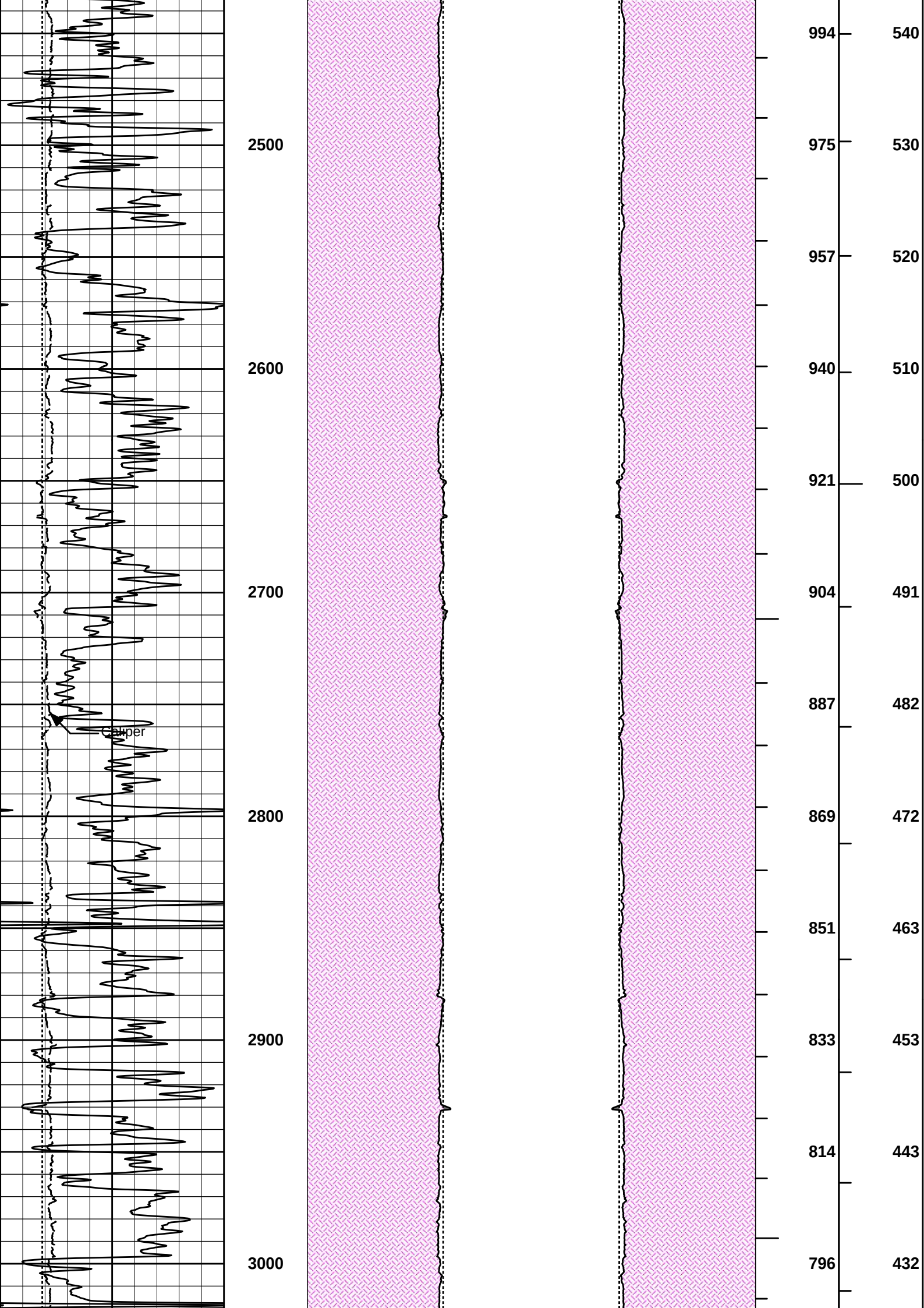
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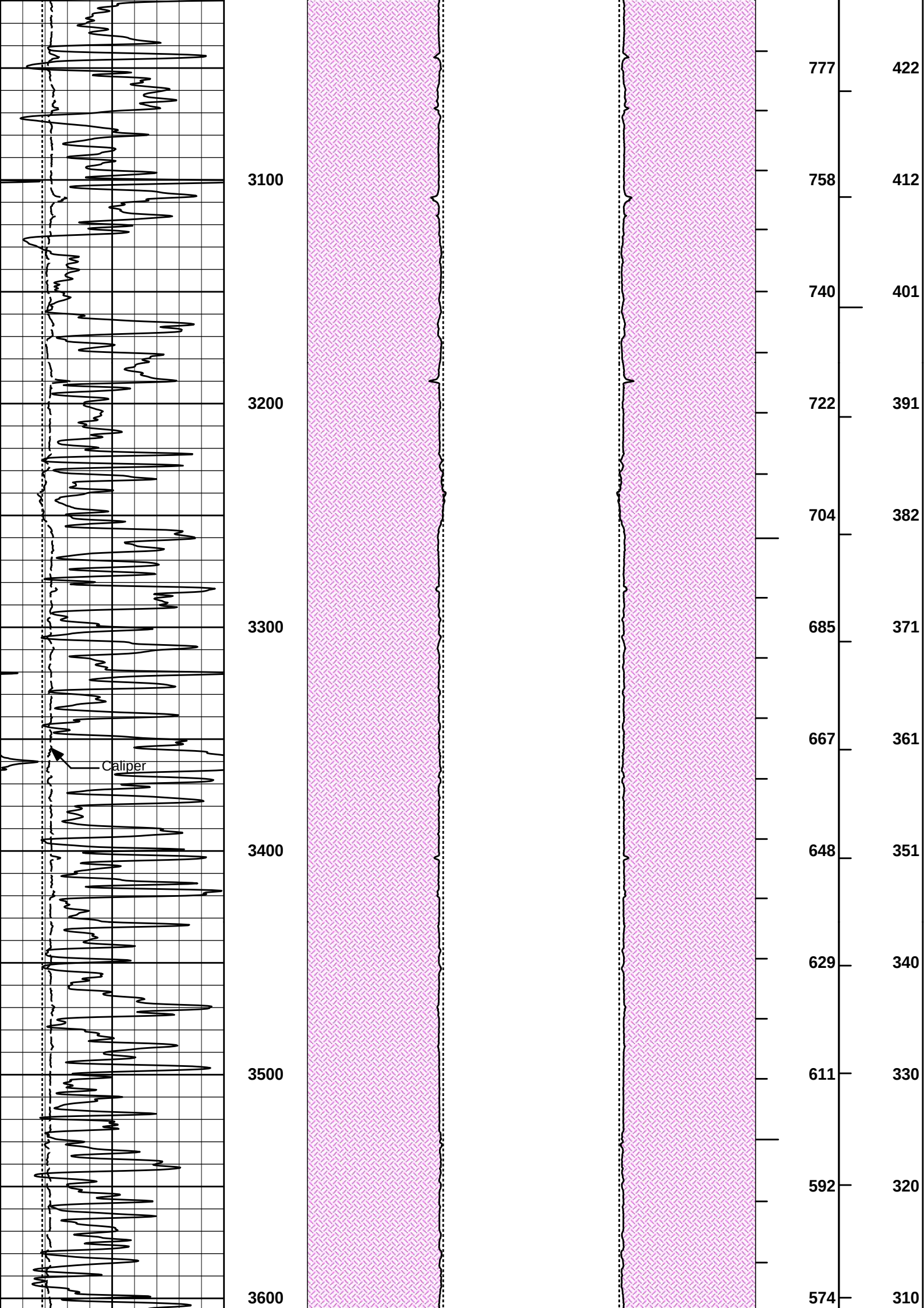
Plot File: \\-LOCAL-\\MERIT JONES19-1\\0001 GTET-DSN-SDL-BSAT-ACRT\\AHV\\AHV 2 IQ LIB

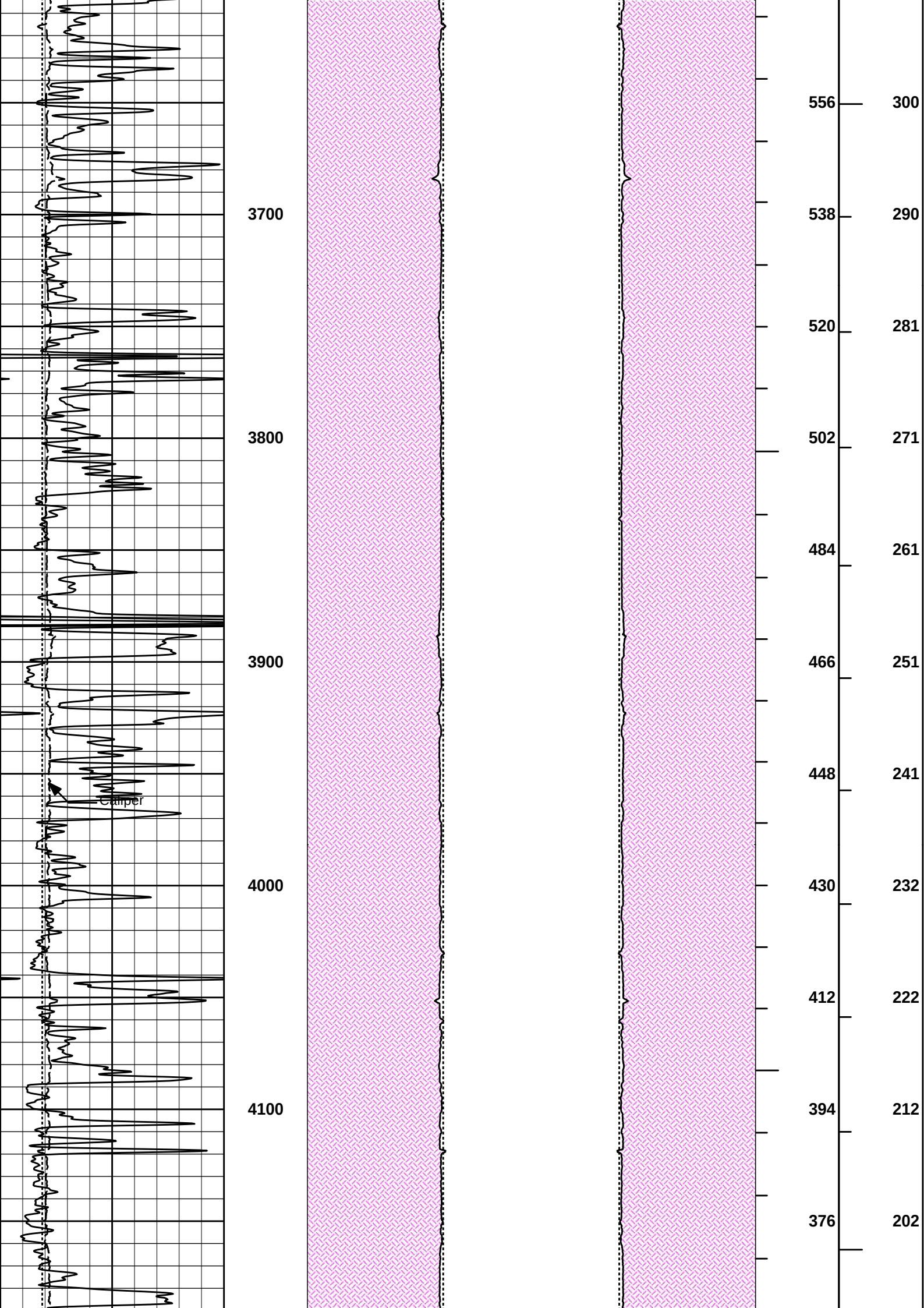
ANNULAR HOLE VOLUME PLOT

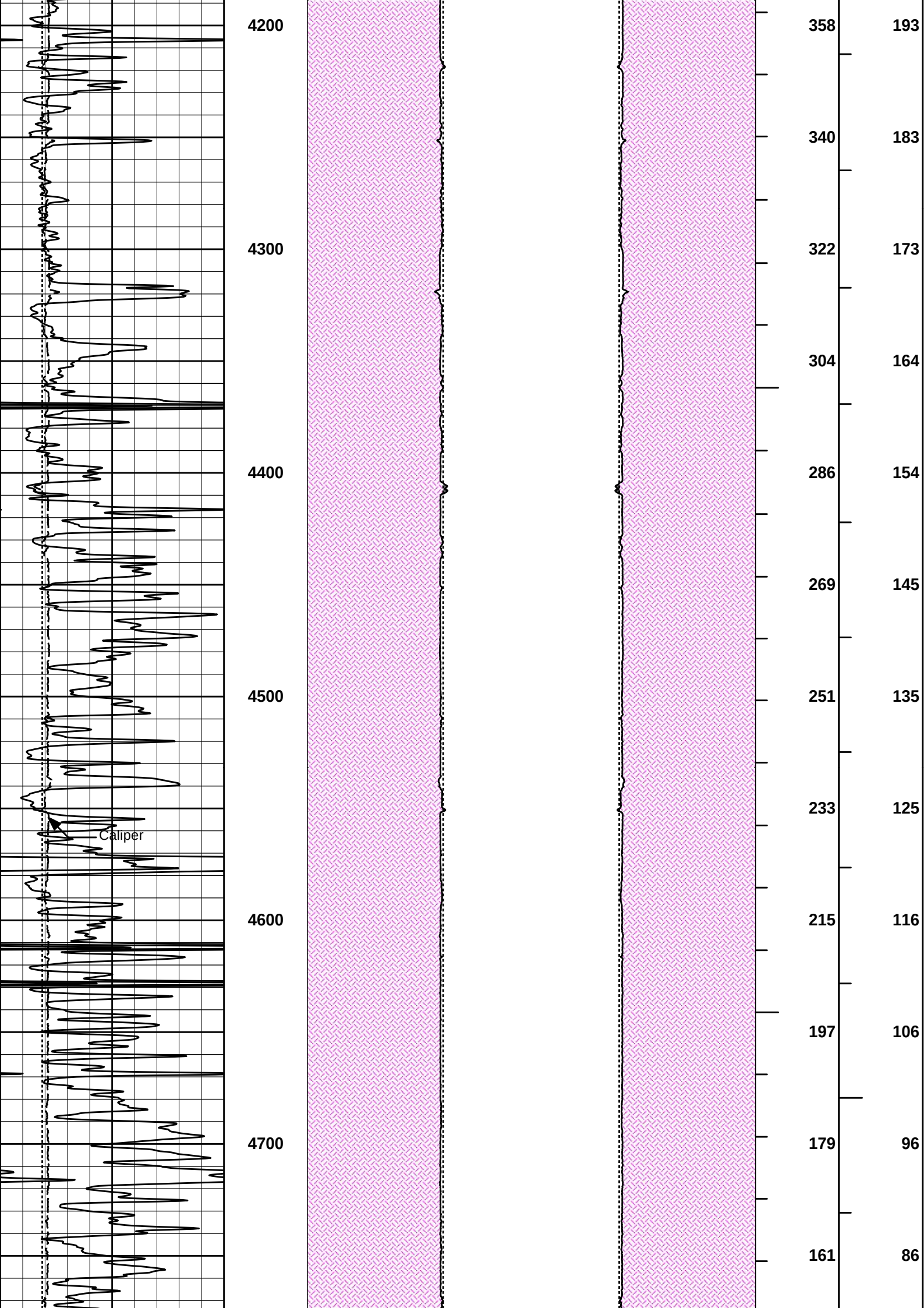


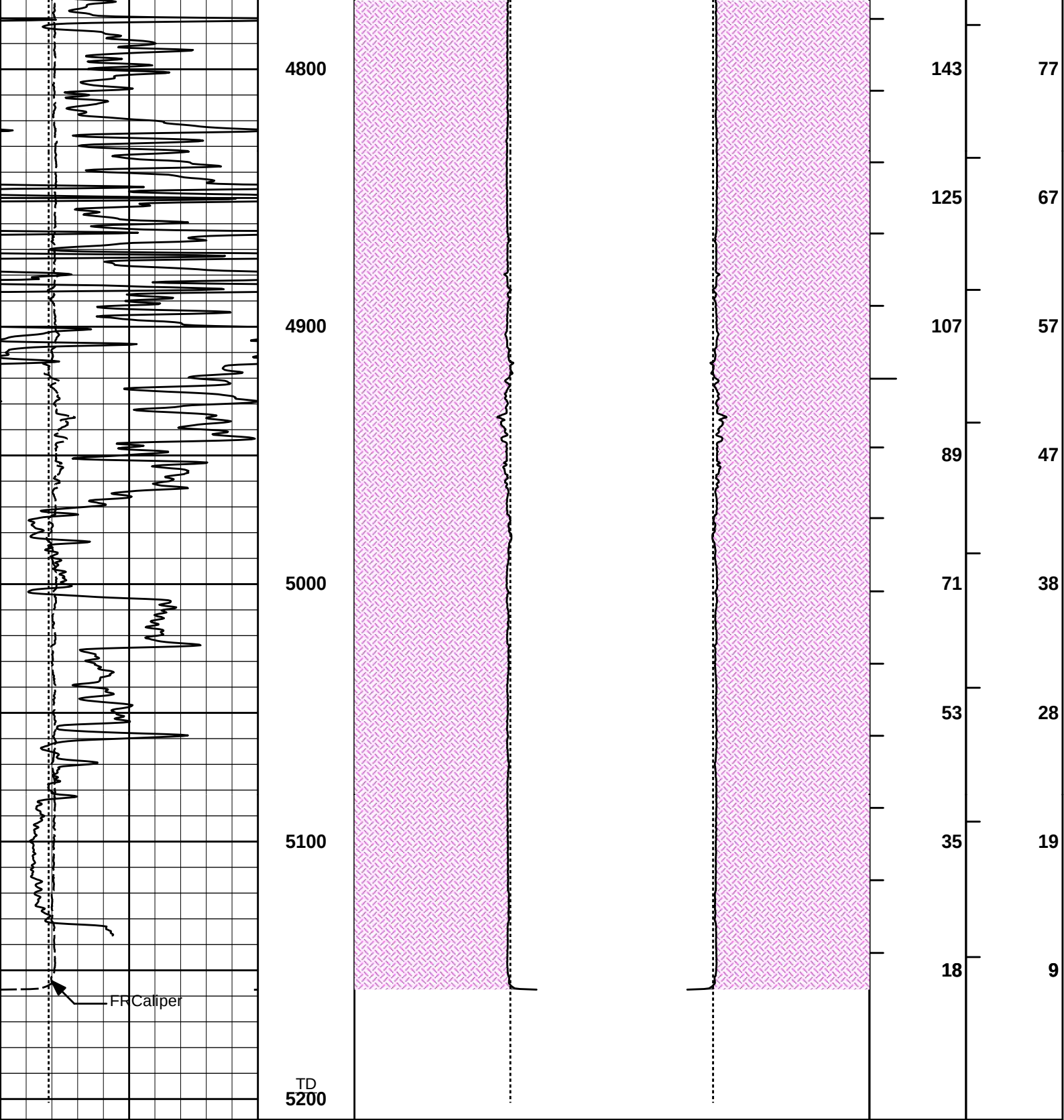












6	Caliper	16	MD 1 : 600 ft	20	Caliper	0 0	20	BHVT	AHVT
6	inches	16		20	inches	0 0	20		
6	Bit Size	16		20	Bit Size	0 0	20		
6	inches	16		20	Bit Size	0 0	20		
0	Gamma API	150		MUDCAKE		MUDCAKE			
	api								

COMPANY	MERIT ENERGY COMPANY, LLC		
WELL	JONES 19-1		
FIELD	WILDCAT		
COUNTY	FINNEY	STATE	KANSAS

HALLIBURTON

ANNULAR HOLE VOLUME
LOG