

HALLIBURTON

ANNULAR HOLE VOLUME LOG 5 1/2" CASING

COMPANY	RUSSELL OIL, INC.		
WELL	NEWMAN #32-1		
FIELD/BLOCK			
COUNTY	SHERIDAN		
STATE	KANSAS		
Permanent Datum	GL		Elev. 2665.0 ft
Log measured from	KB		D.F. 2668.0 ft
Drilling measured from	KB	5.0 ft above perm. Datum	G.L. 2665.0 ft
Date	09-Nov-19		
Run No.	1		
Depth - Driller	4400.0 ft		
Depth - Logger	4400.0 ft		
Bottom - Logged Interval	4390		
Top - Logged Interval	2200		
Casing - Driller	8.625 in @ 286.0 ft		
Casing - Logger	286.0 ft @		
Bit Size	7.875 in @		
Type Fluid in Hole	Water Based Mud @		
Density	9.20 g/cc	58.00 s/qt	
PH	10.00 pH	8.0 cpm	
Source of Sample	FLOWLINE		
Rm @ Meas. Temperature	1.08 ohmm	@ 72.00 degF	@
Rmf @ Meas. Temperature	0.88 ohmm	@ 70.00 degF	@
Rmc @ Meas. Temperature	1.27 ohmm	@ 70.00 degF	@
Source Rmf	Rmc	MEAS	
Rm @ BHT	0.63 ohmm	@ 128.0 degF	@
Time Since Circulation	05:00 hr		
Time on Bottom	09-Nov-19 07:32		
Max. Rec. Temperature	128.00 degF	@ 4400.0 ft	@
Equipment	Location	12156883	EL RENO, OK
Recorded By	WHITLOCK		
Witnessed By	KITT NOAH		
COMPANY	RUSSELL OIL, INC.	STATE	KANSAS
WELL	NEWMAN #32-1	Other Services:	ACRT SDL-DSN MICROLOG
FIELD/BLOCK		Location	(SHL) E2 NW NW SW 2310' FSL & 360' FWL
COUNTY	SHERIDAN	API No.	15-179-21464-00-00
STATE	KANSAS	Sect.	32
		Twp.	9S
		Rge.	26W

Fold here

Service Ticket No.: 906098766				API No.: 15-179-21464-00-00				PGM Version: WL INSITE R6.2.7 (Build 7)											
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.	@	@																	
Rmc @ Meas. Temp.	@	@																	
Source Rmf	Rmc																		
Rm @ BHT	@	@																	
Rmf @ BHT	@	@																	
Rmc @ BHT	@	@																	
EQUIPMENT DATA																			
GAMMA				ACOUSTIC				DENSITY				NEUTRON							
Run No.				Run No.				Run No.				Run No.							
Serial No.				Serial No.				Serial No.				Serial No.							
Model No.				Model No.				Model No.				Model No.							
Diameter				No. of Cent.				Diameter				Diameter							
Detector Model No.				Spacing				Log Type				Log Type							
Type								Source Type				Source Type							
Length				LSA [Y/N]				Serial No.				Serial No.							
Distance to Source				FWDA [Y/N]				Strength				Strength							
LOGGING DATA																			
GENERAL				GAMMA				ACOUSTIC				DENSITY				NEUTRON			
Run	Depth	Speed		Scale		Scale		Scale		Matrix		Scale		Matrix		Scale		Matrix	
No.	From	To	ft/min	L	R	L	R	L	R		L	R		L	R	L	R		

DIRECTIONAL INFORMATION

Maximum Deviation @ KOP @

Remarks: 5 1/2" CASING USED FOR ANNULAR HOLE VOLUME

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.

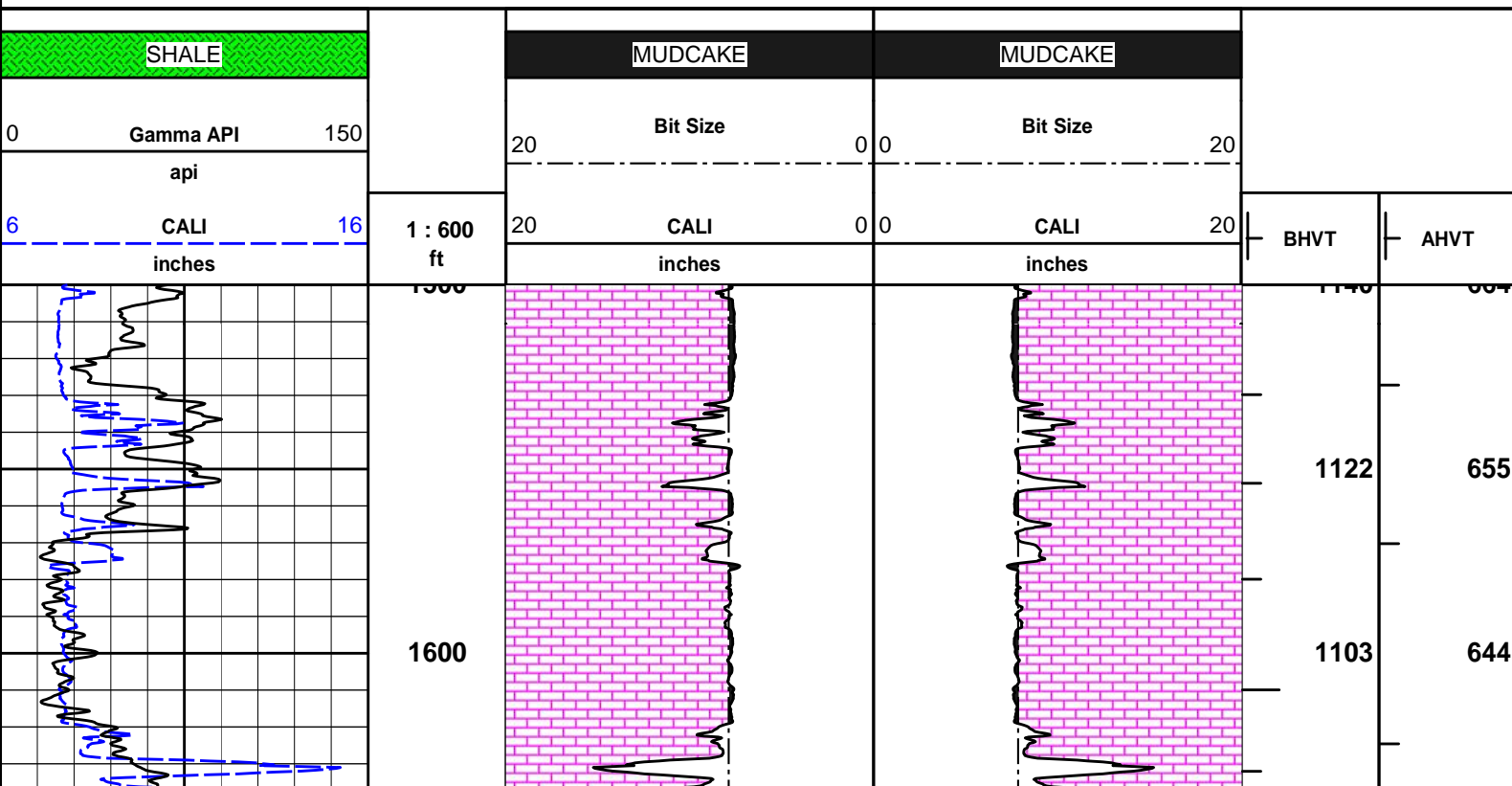
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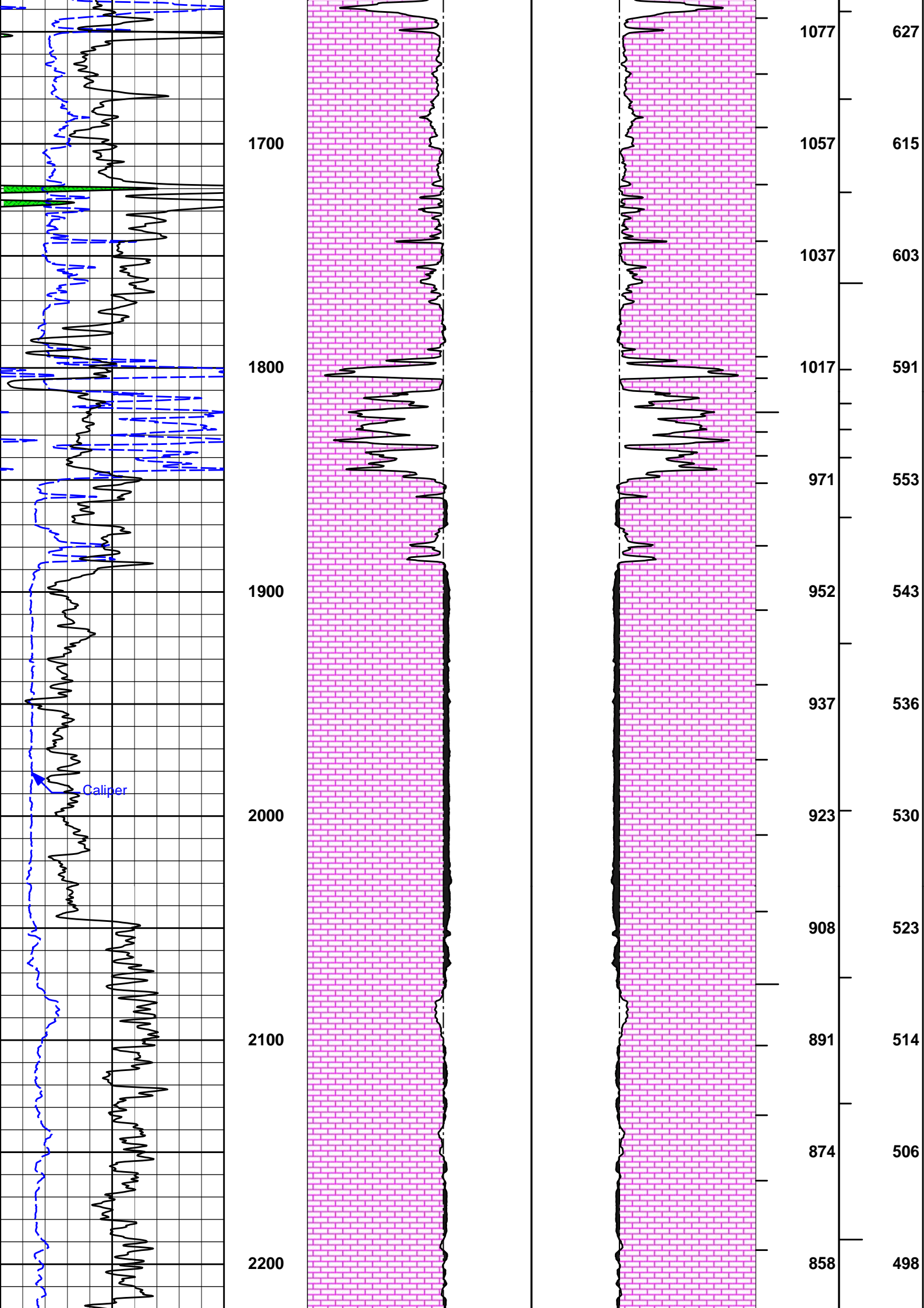


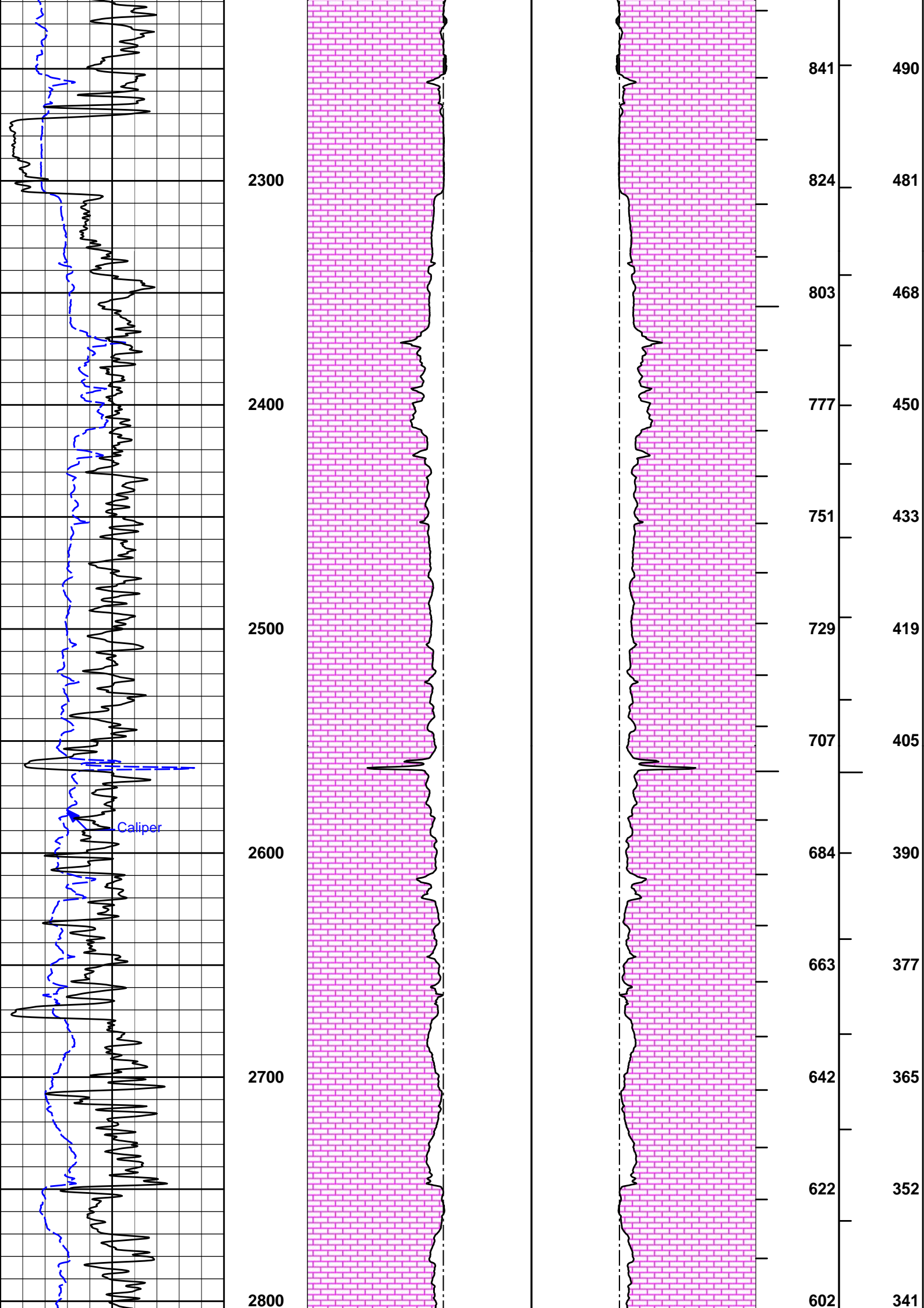
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 Plot Range: 1500 ft to 4403.67 ft
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 Plot File: \\-LOCAL-RUSSELL_NEWMAN\0001 GTET-DSN-SDL-ACRT\AHV\AHV Plot_INSITE_IQ

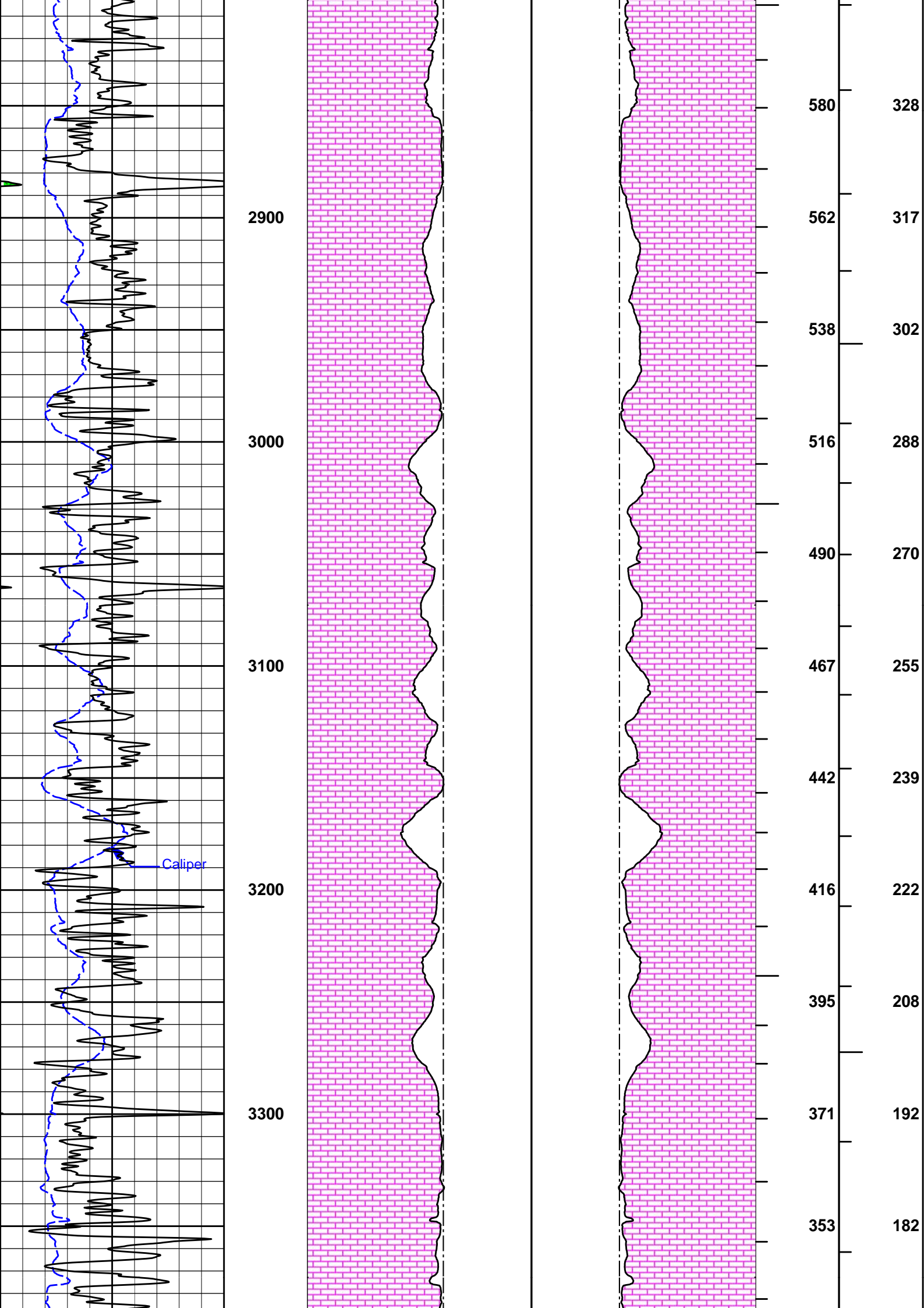
ANNULAR HOLE VOLUME PLOT

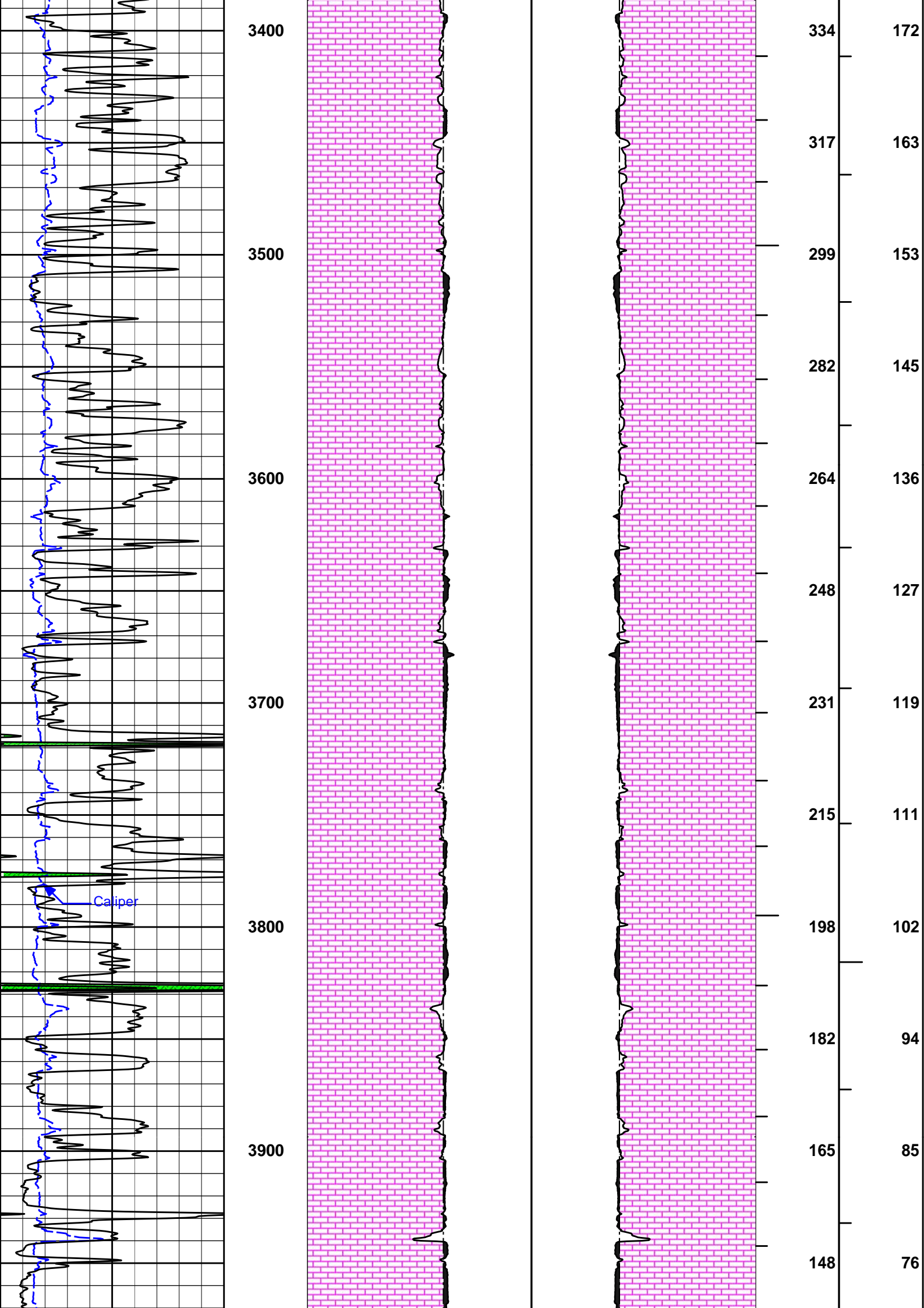
AHV PLOT CALCULATED FOR 5 1/2" CASING

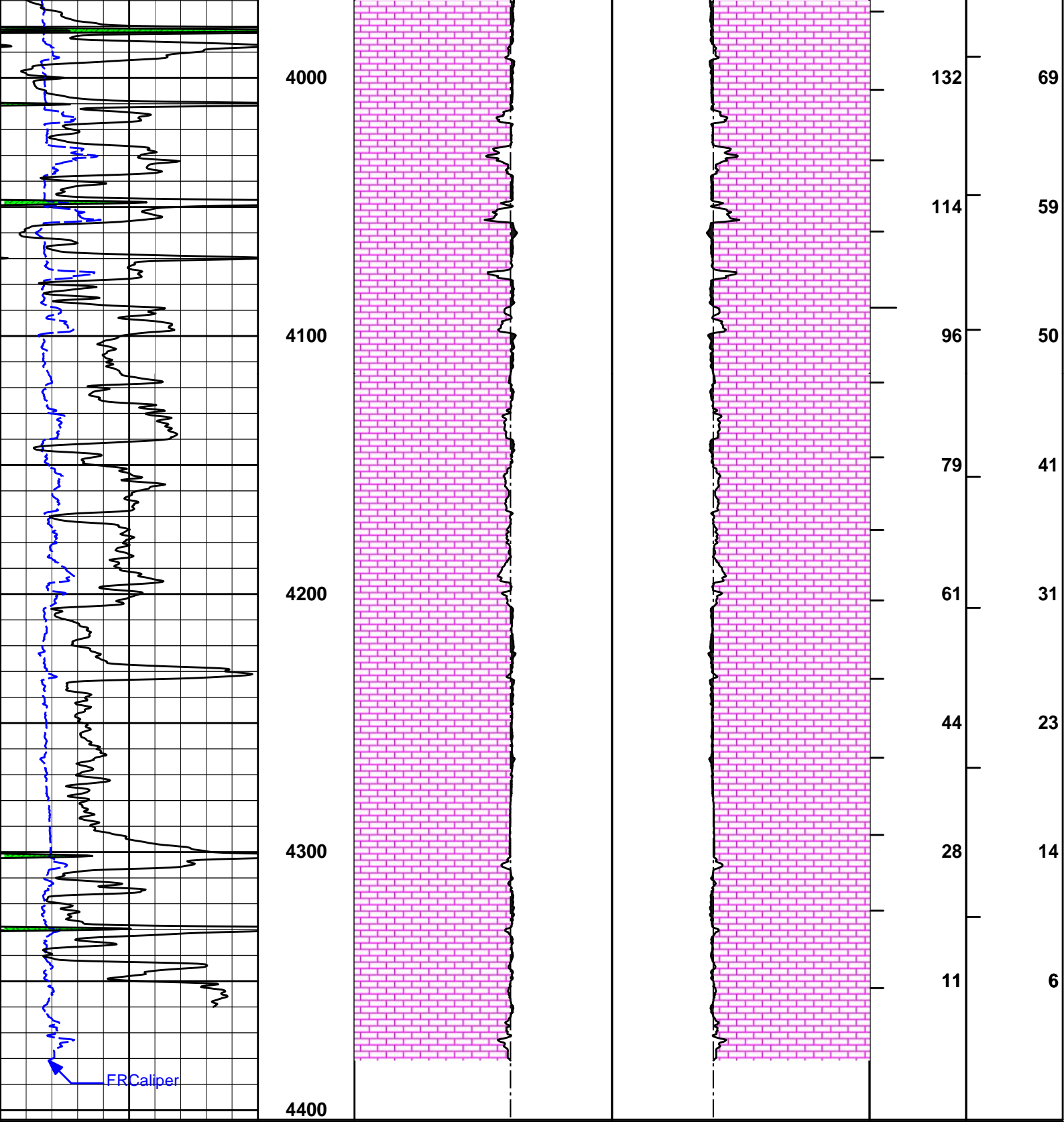












6	CALI	16	1 : 600 ft	20	CALI	0 0	20	BHVT	AHVT
	inches					inches			
0	Gamma API	150		20	Bit Size	0 0	20		
	api								
	SHALE				MUDCAKE				
					MUDCAKE				

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Plot Time: 09-Nov-19 11:23:43
 Plot Range: 1500 ft to 4403.67 ft
 Data: {ActiveWell}\Well Based\MAIN_MERGE\
 Plot File: \\-LOCAL-RUSSELL_NEWMAN\0001 GTET-DSN-SDL-ACRTVAHV\AHV Plot_INSITE_IQ

ANNULAR HOLE VOLUME PLOT

AHV PLOT CALCULATED FOR 5 1/2" CASING