

HALLIBURTON										ANNULAR HOLE VOLUME LOG 4.5 INCH CASING									
SHELBY RESOURCES LLC BRUBAKER 1-17H WILDCAT PRATT KANSAS					COMPANY SHELBY RESOURCES LLC WELL BRUBAKER 1-17H FIELD/BLOCK WILDCAT COUNTY PRATT STATE KANSAS														
COMPANY WELL FIELD/BLOCK COUNTY STATE					GL KB KB KB					Elev. 1888.0 ft 16.0 ft above perm. Datum					Elev.: K.B. D.F. G.L. 1904.0 ft 1904.0 ft 1888.0 ft				
Permanent Datum Log measured from Drilling measured from					Date Run No. Depth - Driller Depth - Logger Bottom - Logged Interval Top - Logged Interval Casing - Driller Casing - Logger Bit Size Type Fluid in Hole Density PH Source of Sample Rm @ Meas. Temperature Rmf @ Meas. Temperature Rmc @ Meas. Temperature Source Rmf Rm @ BHT Time Since Circulation Time on Bottom Max. Rec. Temperature Equipment Recorded By Witnessed By					13-Aug-18 ONE 10799.0 ft 10779.0 ft 10751.0 ft 4854.0 ft 7.000 in 4854.0 ft 6.125 in Water Based Mud 8.8 ppg 8.50 pH MUDPIT 2.08 ohmm 1.66 ohmm 2.50 ohmm MEAS 1.06 ohmm 37.14 hr 15-Aug-18 02:36 154.00 degF 12147634 SEAN WOLTEMATH JASON GOSS					Other Services: GTET DSNT SDLT ACRT				

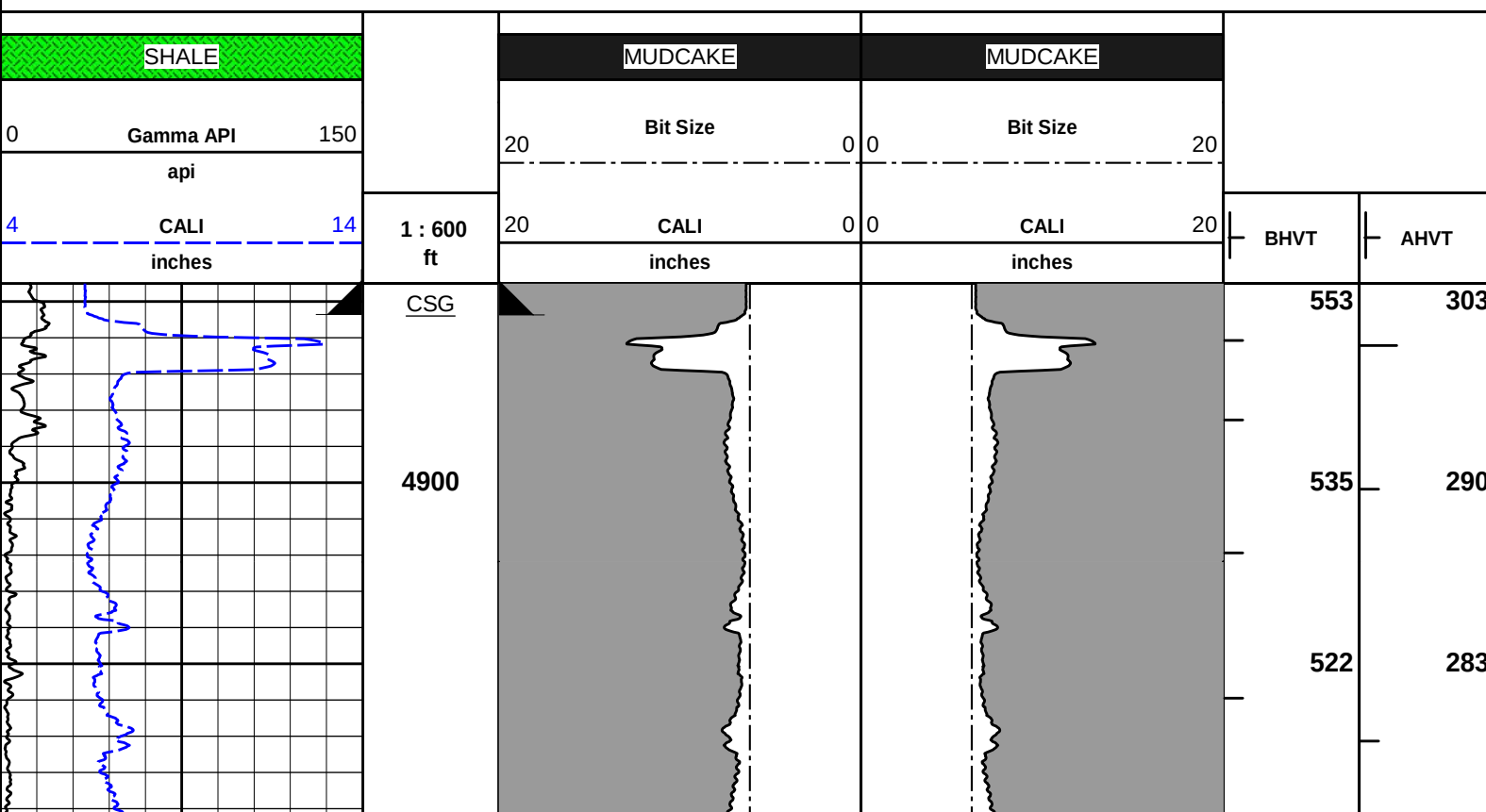
Service Ticket No.: 904936929						API No.: 15-151-22474-01-00						PGM Version: WL INSITE R5.6.0 (Build 2)													
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE												RESISTIVITY SCALE CHANGES													
Date		Sample No.										Type Log		Depth		Scale Up Hole				Scale Down Hole					
Depth-Driller																									
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		N/A		ECEN		N/A					
Rmc @ Meas. Temp.				@				@						I-11026095											
Source Rmf		Rmc										S-11005908													
Rm @ BHT				@				@																	
Rmf @ BHT				@				@																	
Rmc @ BHT				@				@																	
EQUIPMENT DATA																									
GAMMA						ACOUSTIC						DENSITY						NEUTRON							
Run No.		ONE				Run No.						Run No.		ONE				Run No.		ONE					
Serial No.		10971172				Serial No.						Serial No.		10865873				Serial No.		11020487					
Model No.		GTET				Model No.						Model No.		SDLT				Model No.		DSNT					
Diameter		3.625"				No. of Cent.						Diameter		5.5"				Diameter		3.625"					
Detector Model No.		GTET				Spacing						Log Type		GAM-GAM				Log Type		NEU-NEU					
Type		SCINT										Source Type		Cs-137				Source Type		Am241Be					
Length		8"				LSA [Y/N]						Serial No.		5471GW				Serial No.		DSN-424					
Distance to Source		10'				FWDA [Y/N]						Strength		1.78 Ci				Strength		15.0 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		2.71 g/cc		30 10		LIME							

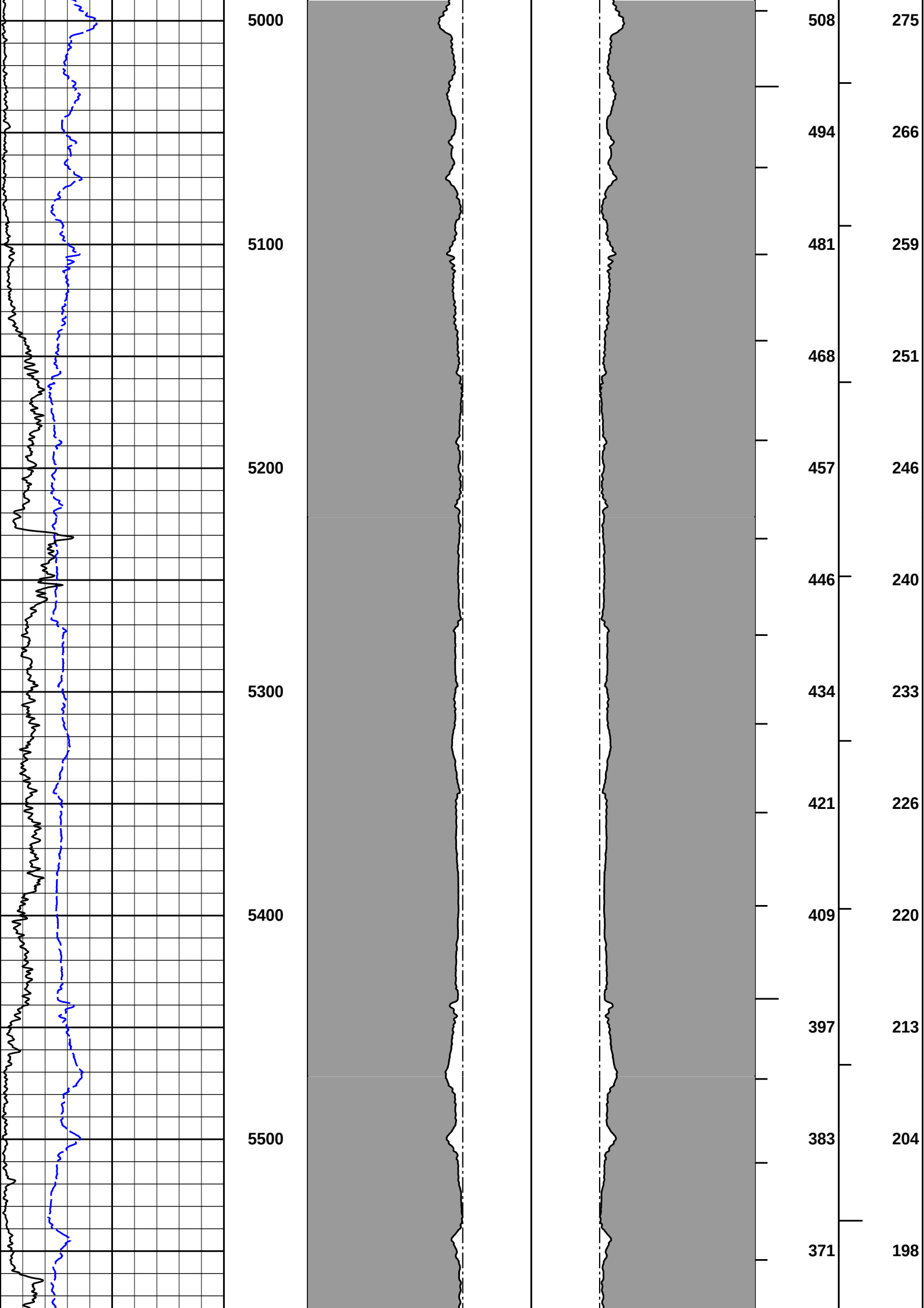
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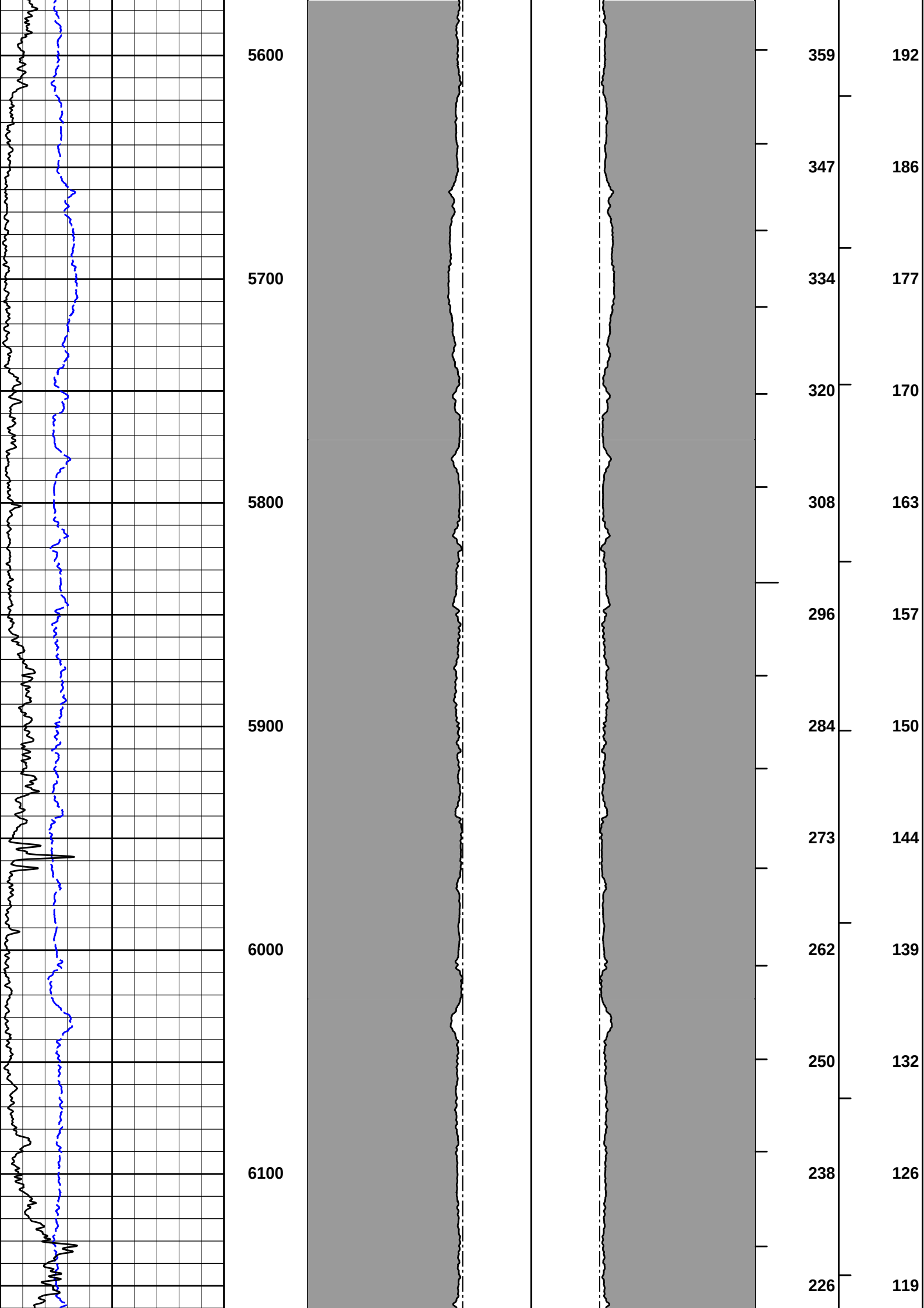
HALLIBURTON Plot Time: 15-Aug-18 16:20:43
 Plot Range: 4845 ft to 10779.3 ft
 Data: BRUBAKER_1-17H\Well Based\MAIN_TD-CSG\
 Plot File: \\-LOCAL-\\BRUBAKER_1-17H\Well Based\AHVIELR_AHV_PLOT

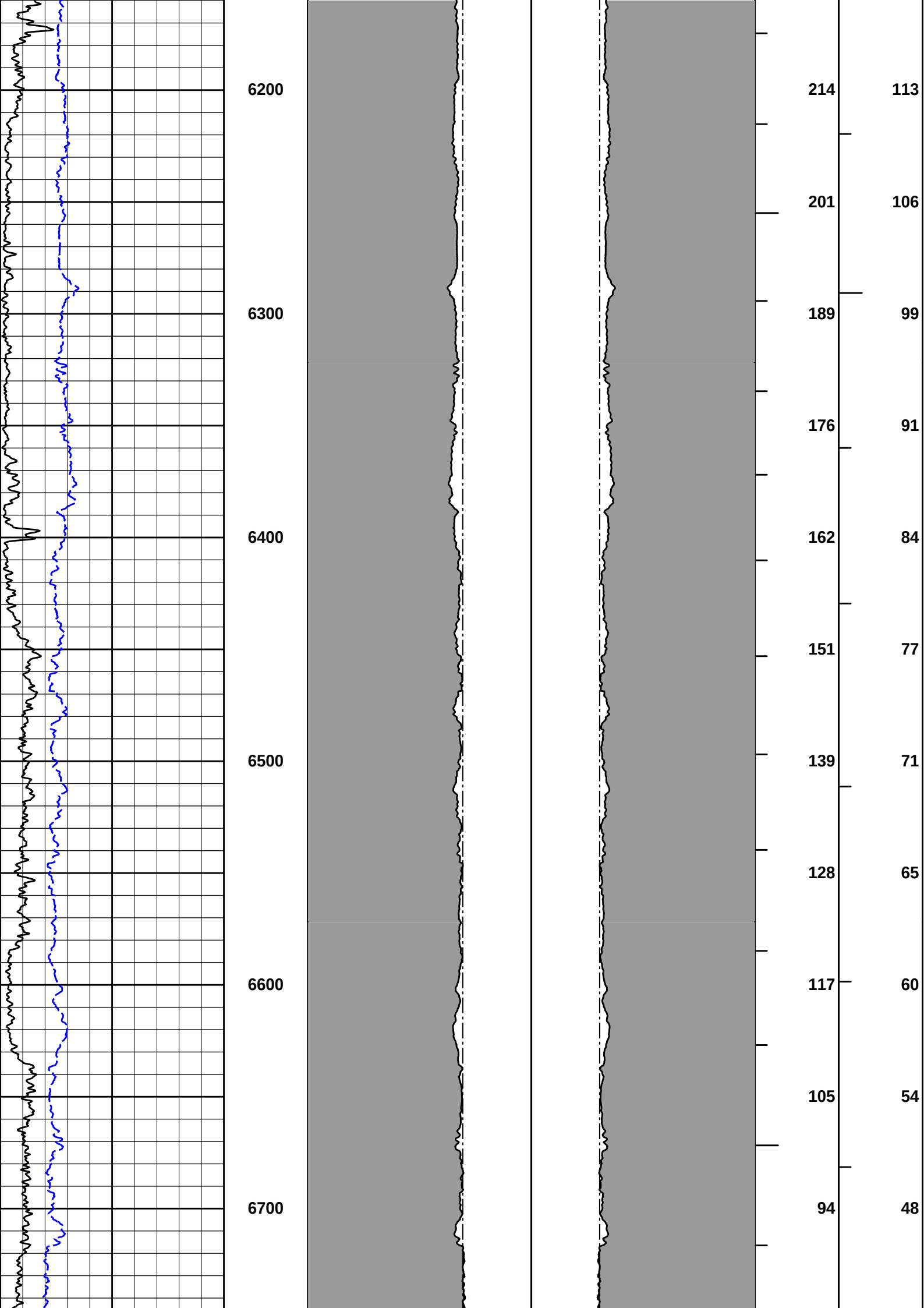
ANNULAR HOLE VOLUME PLOT

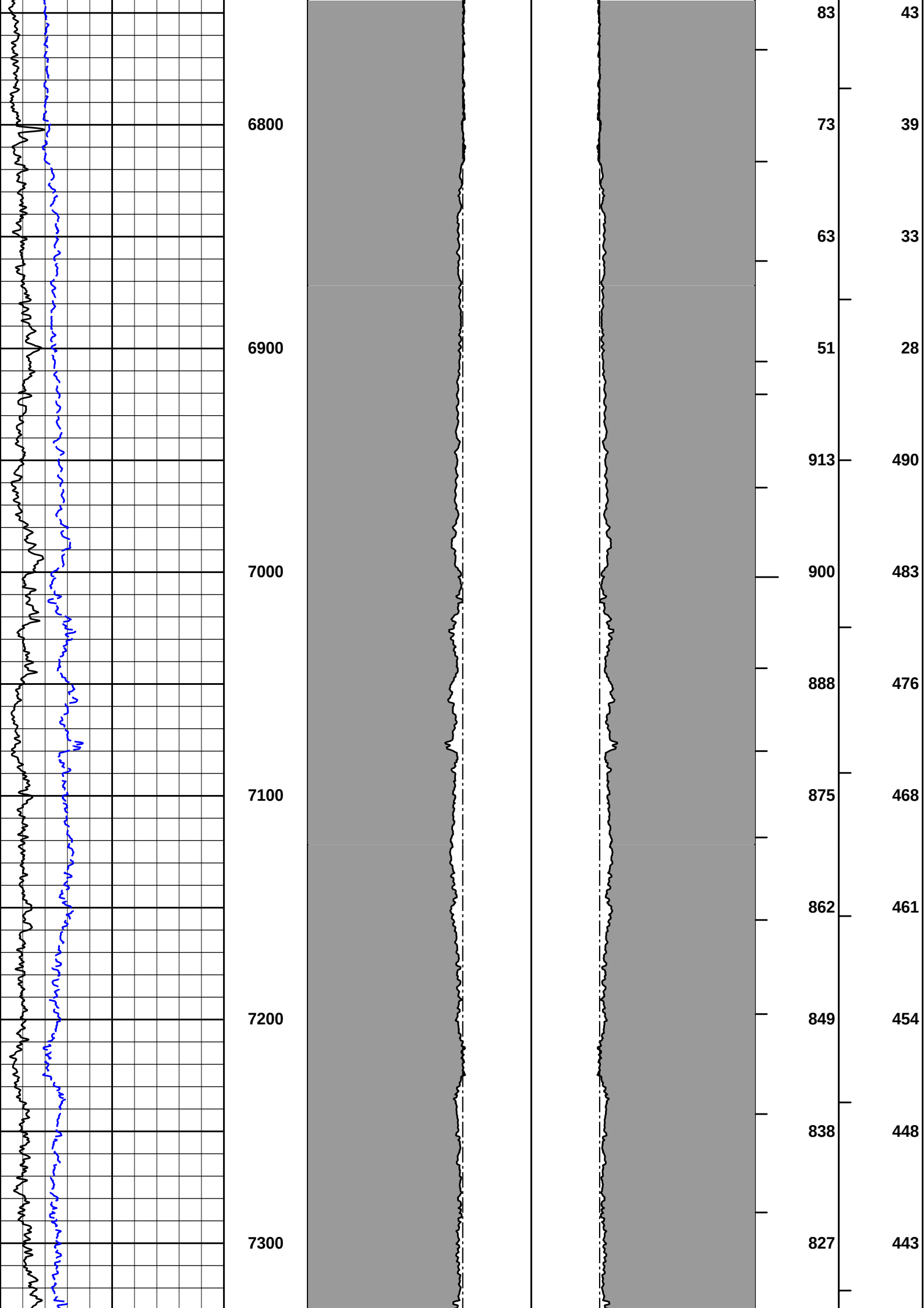
2 IN = 100 FT MD
ANNULAR HOLE VOLUME CALCULATED FOR 4.5 INCH CASING

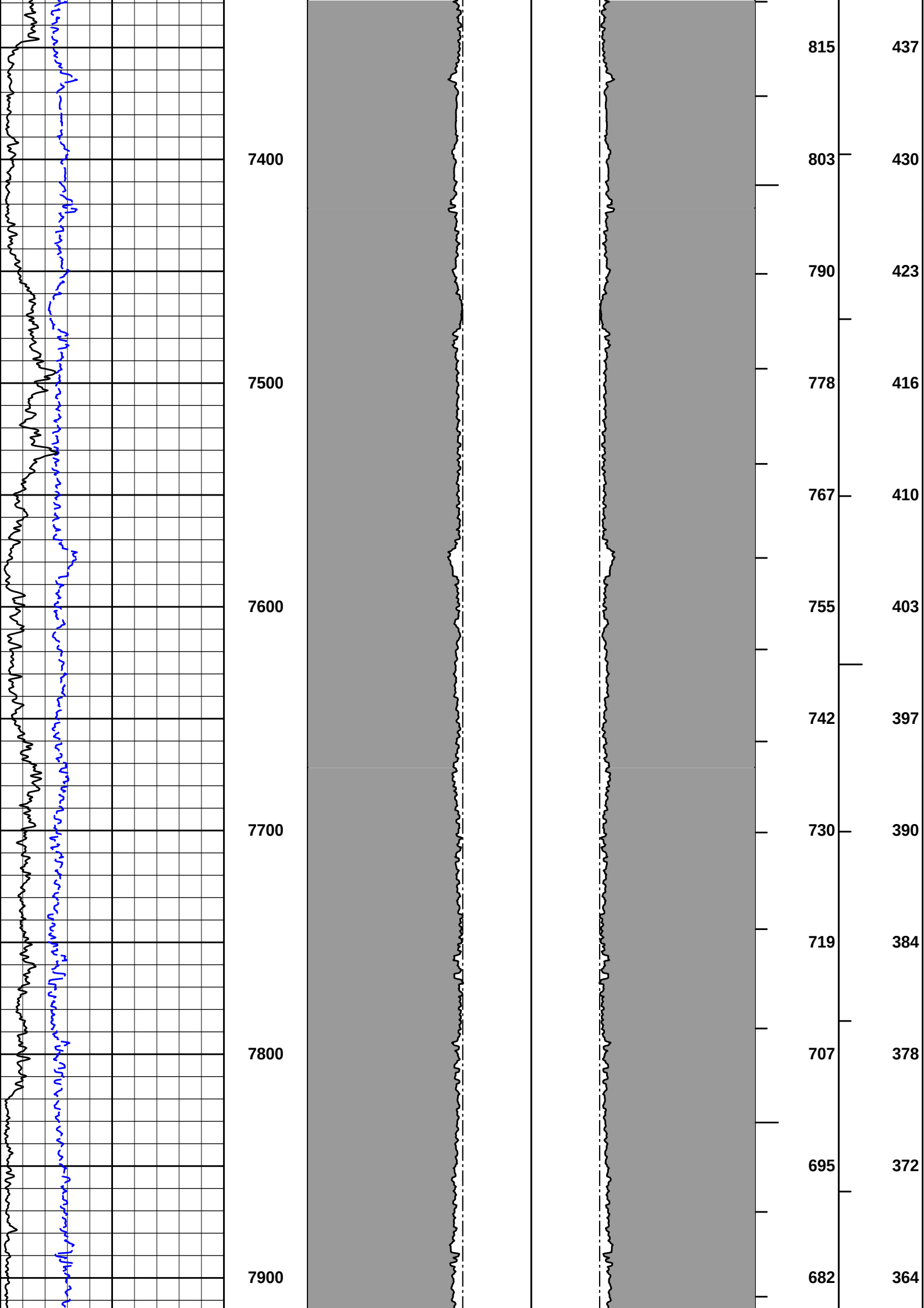


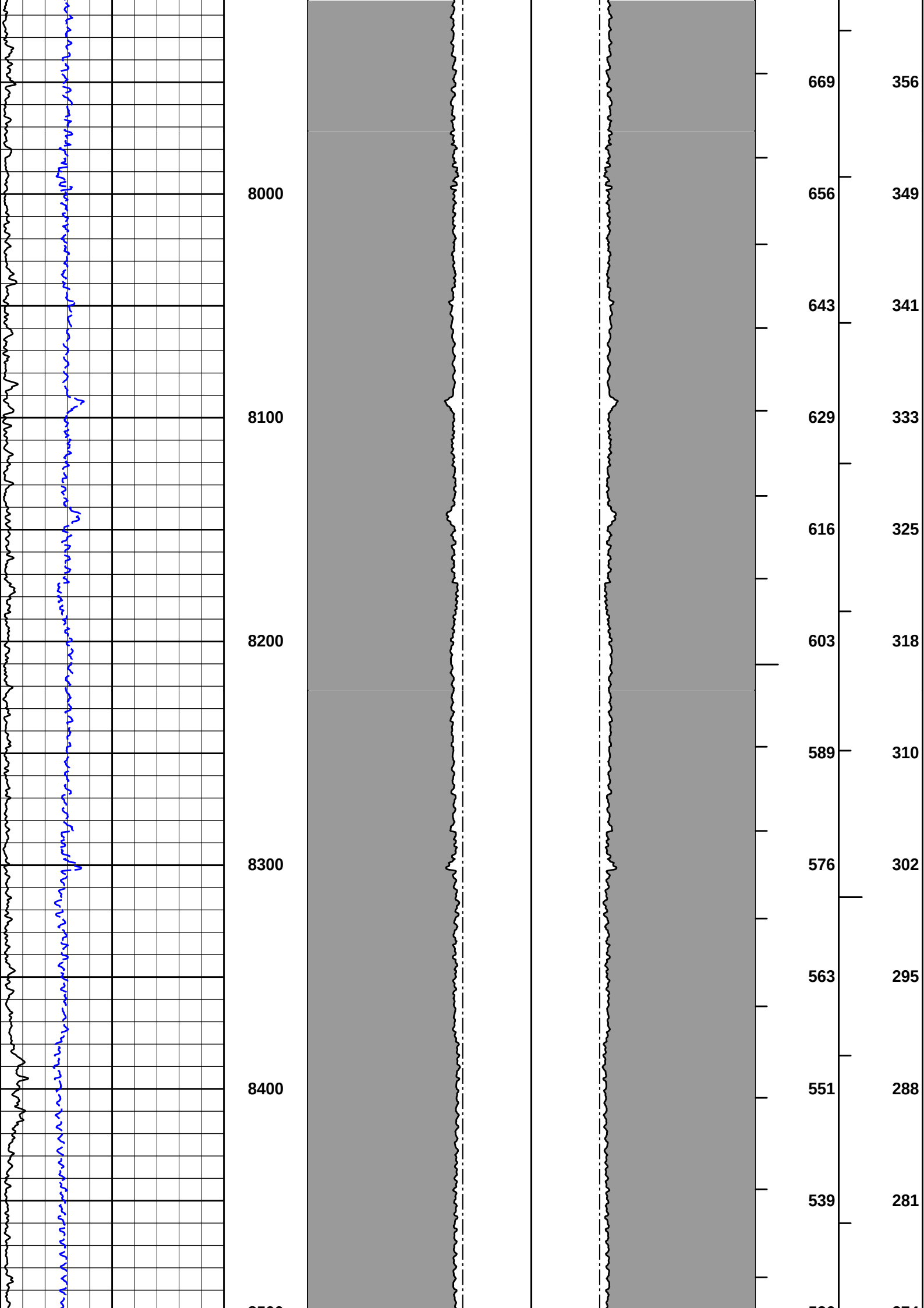


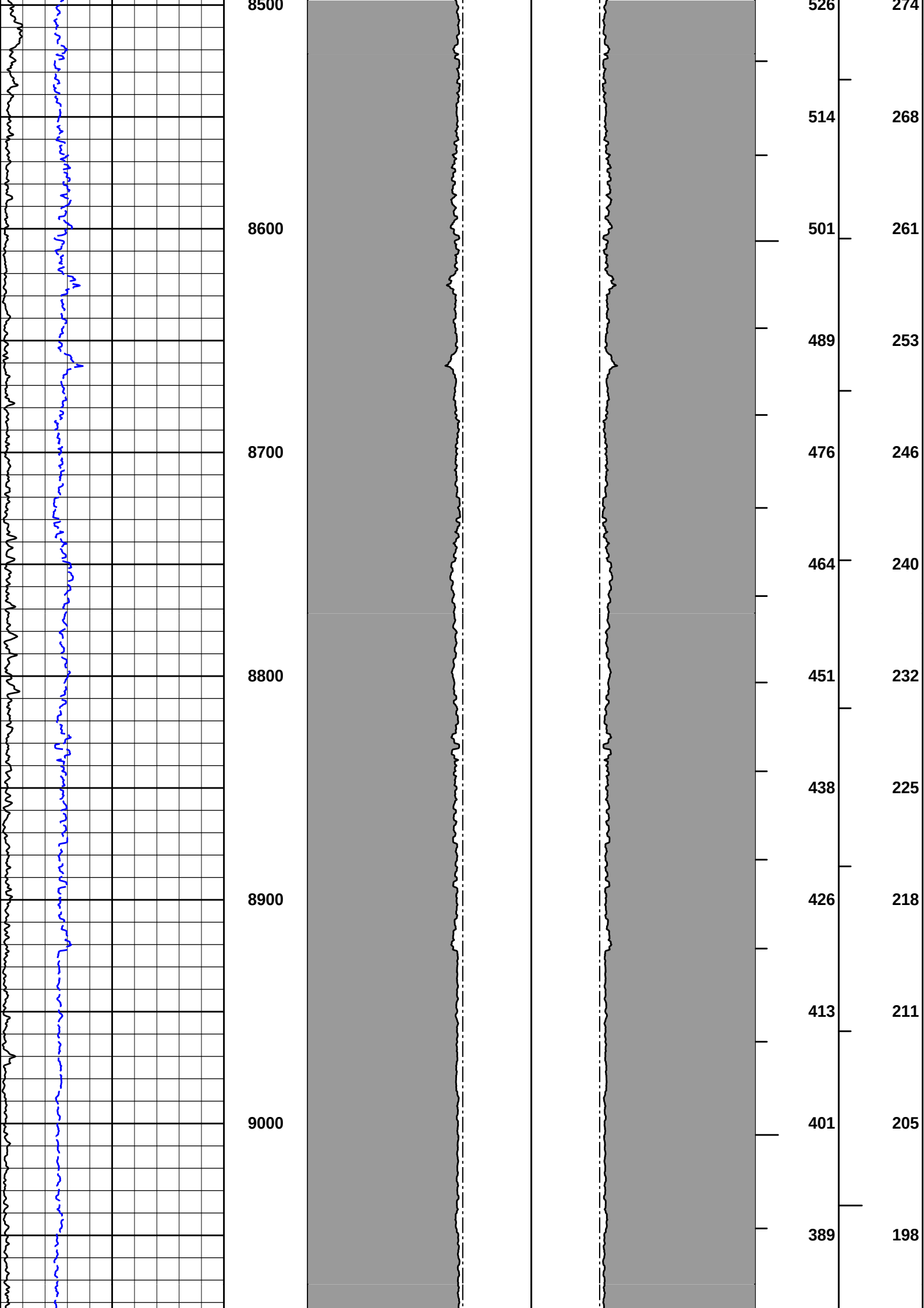


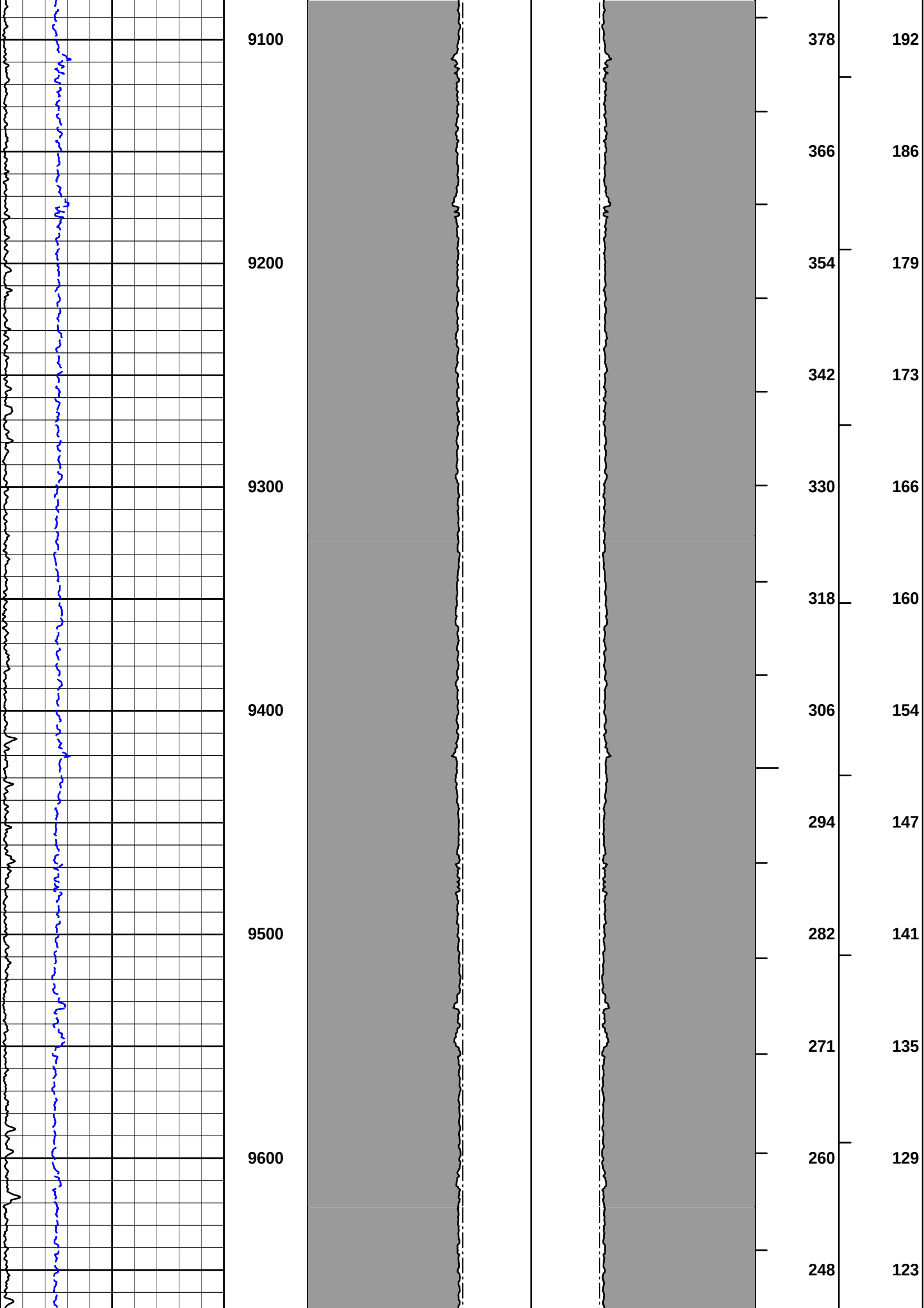


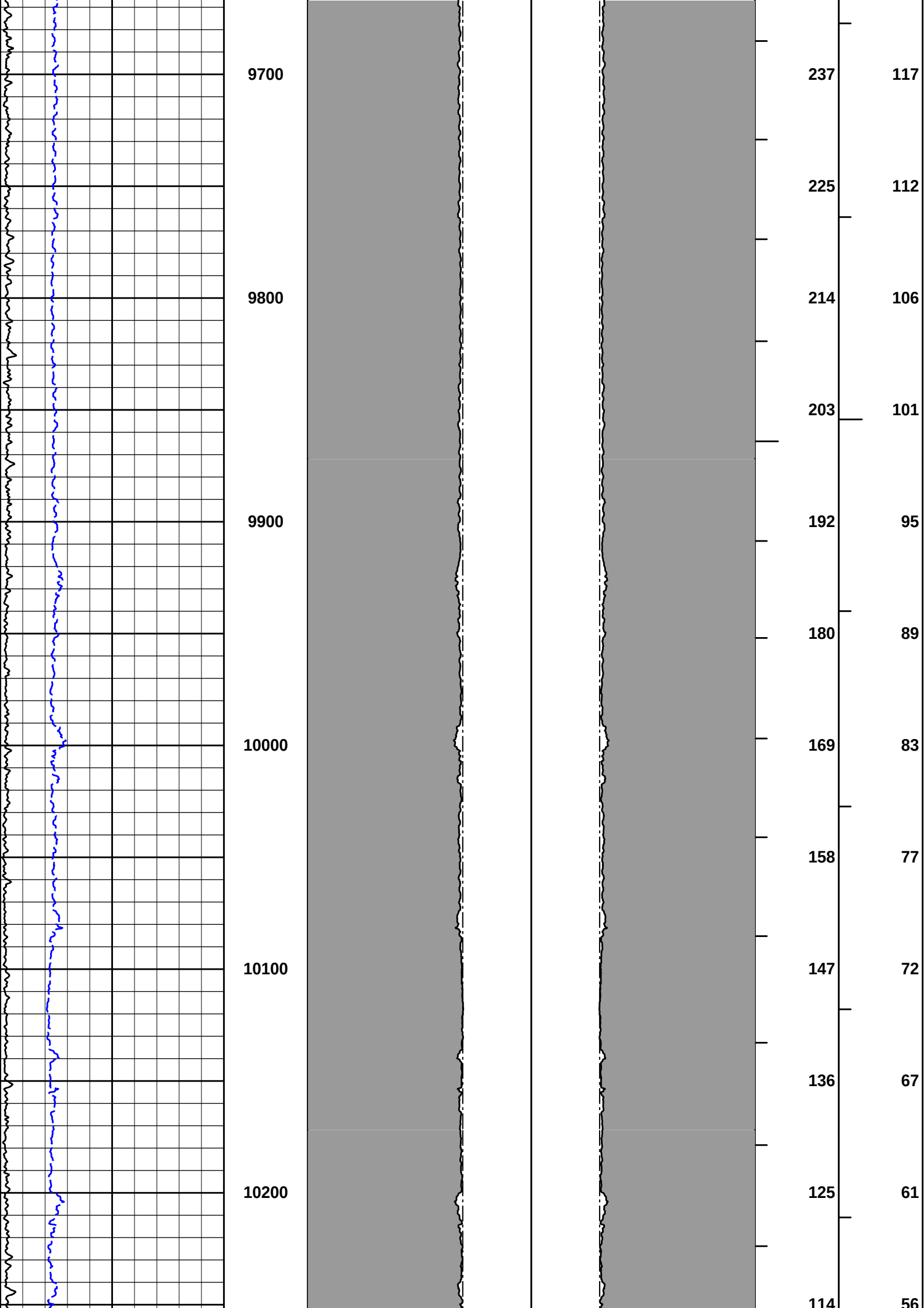


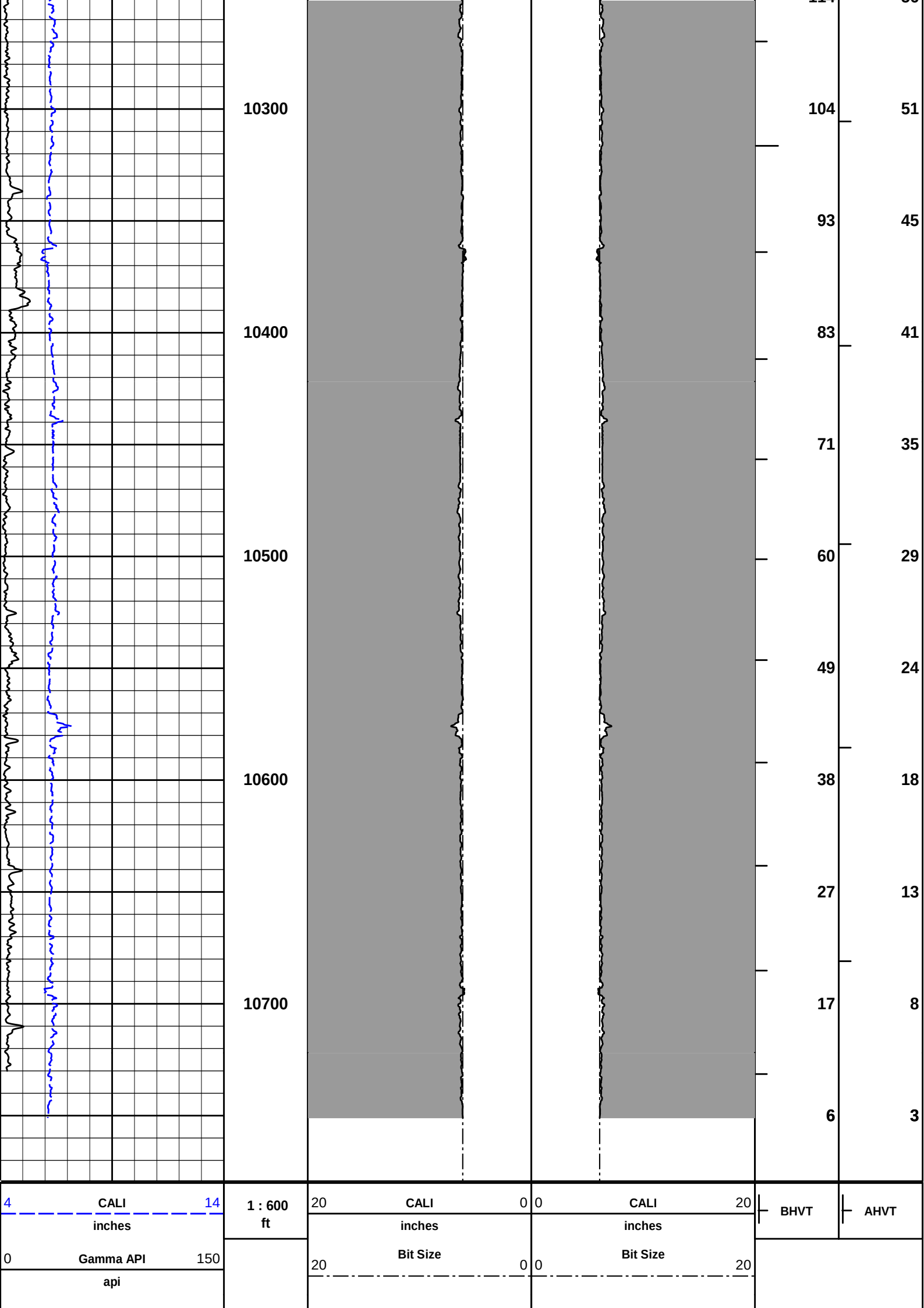












SHALE		MUDCAKE		MUDCAKE	
HALLIBURTON		Plot Time: 15-Aug-18 16:20:47 Plot Range: 4845 ft to 10779.3 ft Data: BRUBAKER_1-17H\Well Based\MAIN_TD-CSG\ Plot File: \\-LOCAL-\\BRUBAKER_1-17H\Well Based\AHV\ELR_AHV_PLOT			
ANNULAR HOLE VOLUME PLOT					
2 IN = 100 FT MD ANNULAR HOLE VOLUME CALCULATED FOR 4.5 INCH CASING					
COMPANY		SHELBY RESOURCES LLC			
WELL		BRUBAKER 1-17H			
FIELD		WILDCAT			
COUNTY		PRATT		STATE	KANSAS
HALLIBURTON			ANNULAR HOLE VOLUME LOG 4.5 INCH CASING		