HALLIBURTON

ANNULAR HOLE VOLUME
5.5 INCH CASING

MERIT ENERGY COMPANY, LLC | NORTH REEVE 1-11 | WILDCAT | FINNEY | KS

COMPANY / WELL / FIELD/BLOCK / COUNTY / STATE

COMPANY **MERIT ENERGY COMPANY, LLC**

WELL **NORTH REEVE 1-11**

FIELD/BLOCK **WILDCAT**

COUNTY **FINNEY** STATE **KS**

API No. 15055225460100

Location 2421' FWL & 2160' FSL
SE NE NE SW

Sect. 11 Twp. 25 Rge. 33W

Other Services:
GTET
DSNT-SDLT
BSAT
ACRT

Permanent Datum	GL	Elev. 2897.0 ft	Elev.: K.B. 2909.0 ft
Log measured from	KB	12.0 ft above perm. Datum	D.F. 2908.0 ft
Drilling measured from	KB		G.L. 2897.0 ft

Date		04-Oct-22					
Run No.		ONE					
Depth - Driller		5185.0 ft					
Depth - Logger		5185.0 ft					
Bottom - Logged Interval		5133.0 ft					
Top - Logged Interval		1796.0 ft					
Casing - Driller		8.625 in	@ 1795.0 ft	@		@	
Casing - Logger		1796.0 ft					
Bit Size		7.875 in		@		@	
Type Fluid in Hole		Water Based Mud					
Density	Viscosity	9.3 ppg	52.00 s/qt				
PH	Fluid Loss	10.50 pH	5.6 cptm				
Source of Sample		MUDPIT					
Rm @ Meas. Temperature		1.11 ohmm	@ 66.00 degF	@		@	
Rmf @ Meas. Temperature		0.97 ohmm	@ 66.00 degF	@		@	
Rmc @ Meas. Temperature		1.36 ohmm	@ 66.00 degF	@		@	
Source Rmf	Rmc	CHART	CHART				
Rm @ BHT		0.55 ohmm	@ 140.0 degF	@		@	
Time Since Circulation		07:45 hr					
Time on Bottom		04-Oct-22 06:58					
Max. Rec. Temperature		140.00 degF	@ 5180.0 ft	@		@	
Equipment	Location	12128583	ALVARADO, T				
Recorded By		K. BJERGA					
Witnessed By		M. LANGE					

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Sales Order Number: 908146768 API No.: 15055225460100 PGM Version: WL INSITE R6.6.7 (Build 8)

CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE

	Sample No.					
Date						
Depth-Driller						
Type Fluid in Hole						
Density	Viscosity					
Ph	Fluid Loss					
Source of Sample						
Rm @ Meas. Temp		@	@	@	@	@
Rmf @ Meas. Temp.		@	@	@	@	@
Rmc @ Meas. Temp.		@	@	@	@	@
Source Rmf	Rmc					
Rm @ BHT		@	@	@	@	@
Rmf @ BHT		@	@	@	@	@
Rmc @ BHT		@	@	@	@	@

RESISTIVITY SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

RESISTIVITY EQUIPMENT DATA

Run No.	Tool Type & No.	Pad Type	Tool Pos.	Other

EQUIPMENT DATA

GAMMA		ACOUSTIC		DENSITY		NEUTRON	
Run No.	ONE	Run No.		Run No.		Run No.	
Serial No.	11405267	Serial No.		Serial No.		Serial No.	
Model No.	GTET	Model No.		Model No.		Model No.	
Diameter	3.625"	No. of Cent.		Diameter		Diameter	
Detector Model No.	GTET	Spacing		Log Type		Log Type	
Type	SCINT			Source Type		Source Type	
Length	8"	LSA [Y/N]		Serial No.		Serial No.	
Distance to Source	10'	FWDA [Y/N]		Strength		Strength	

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	5185'	1796'	REC	0 gapi	150 gapi									

DIRECTIONAL INFORMATION

Maximum Deviation	@	KOP	@

Remarks: FIRST LOG ON WELL, POSITIVE DEPTH CONTROL APPLIED

SCALES AND PRESENTATIONS ARE AS PER CUSTOMER REQUEST

TOOLS RAN IN COMBINATION AS PER TOOLSTRING DIAGRAM

ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING

CREW: C. HERRERA, B. EZEKWU, S. MORALES

THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES

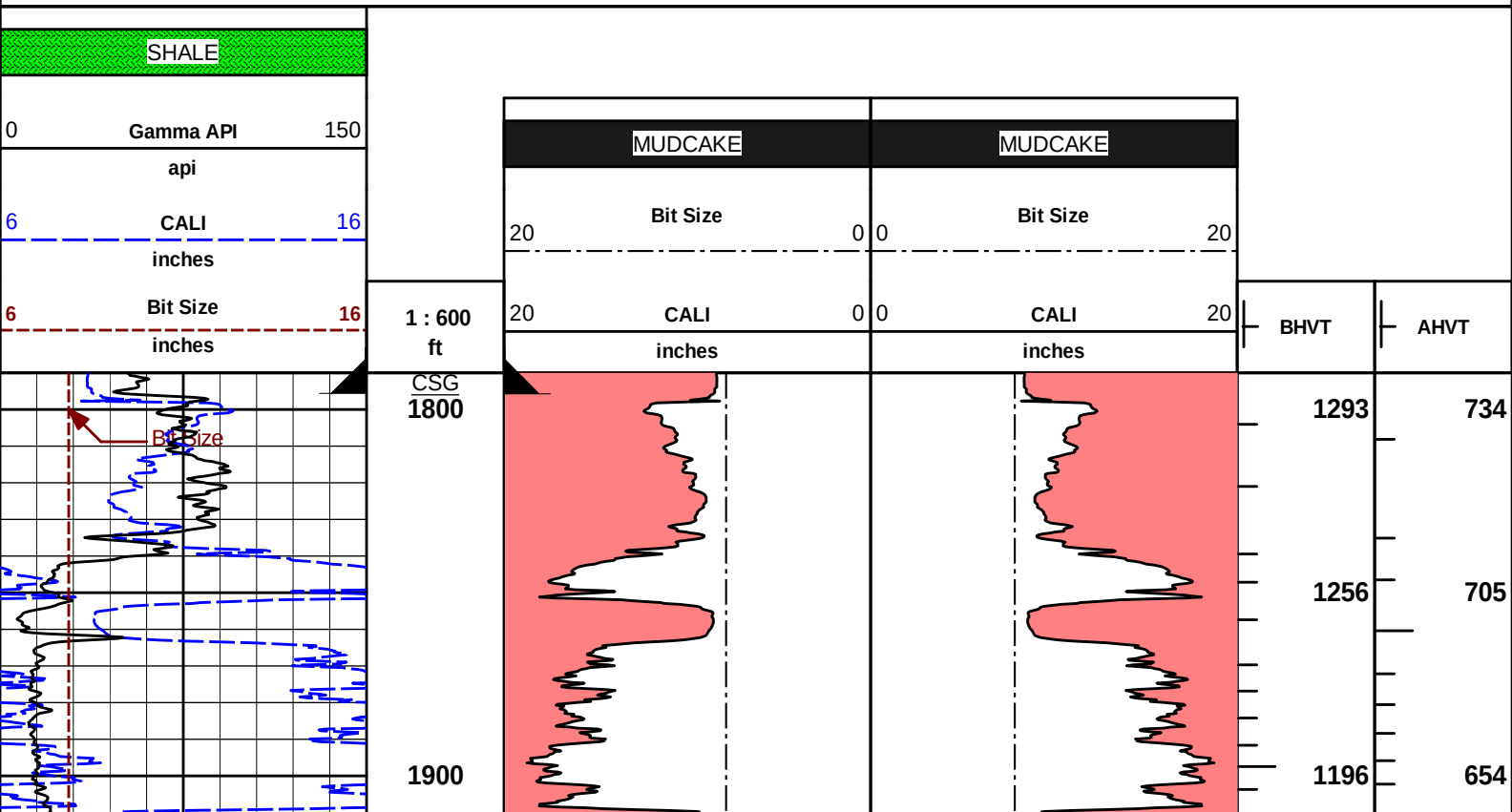
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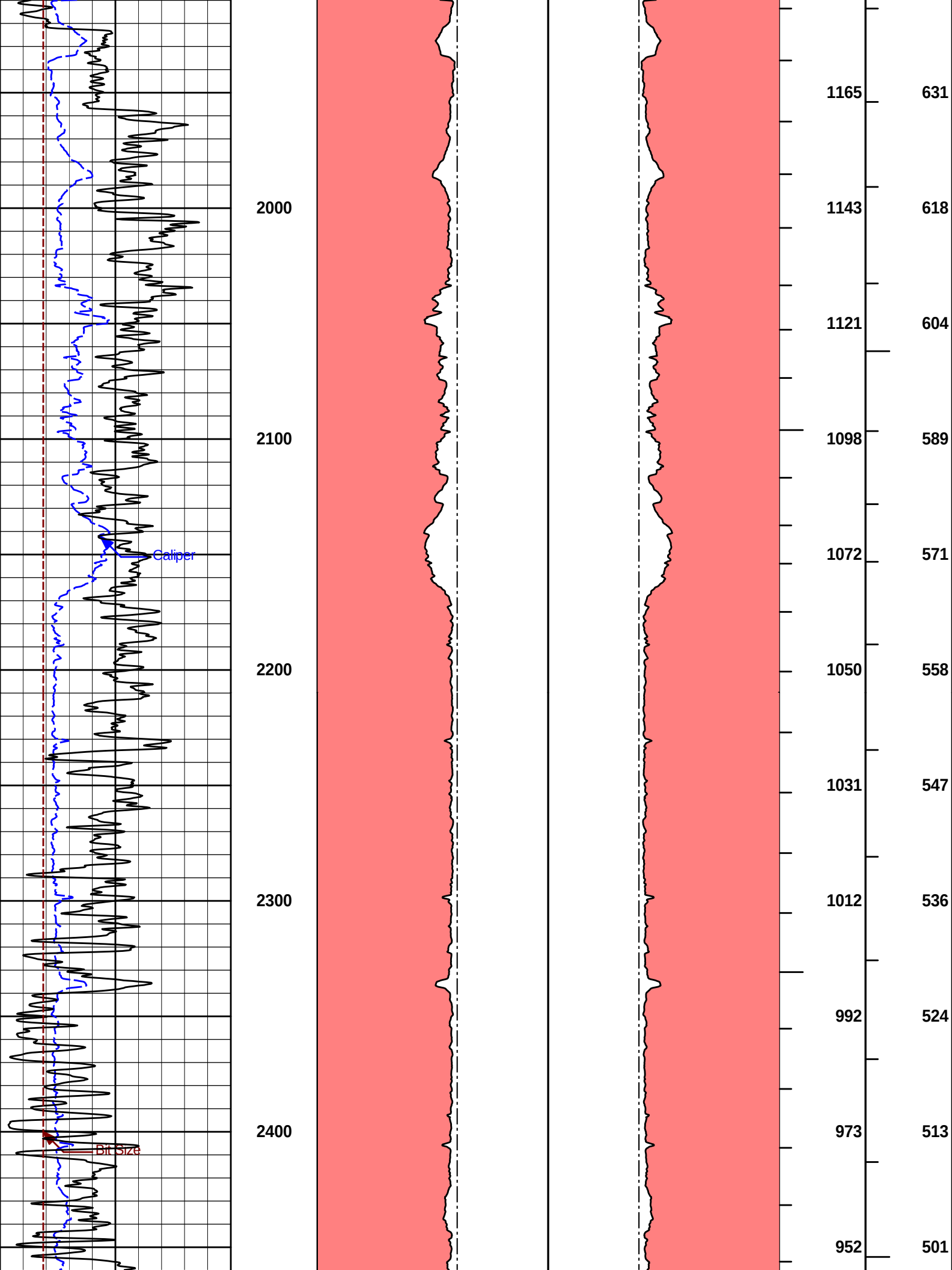
HALLIBURTON

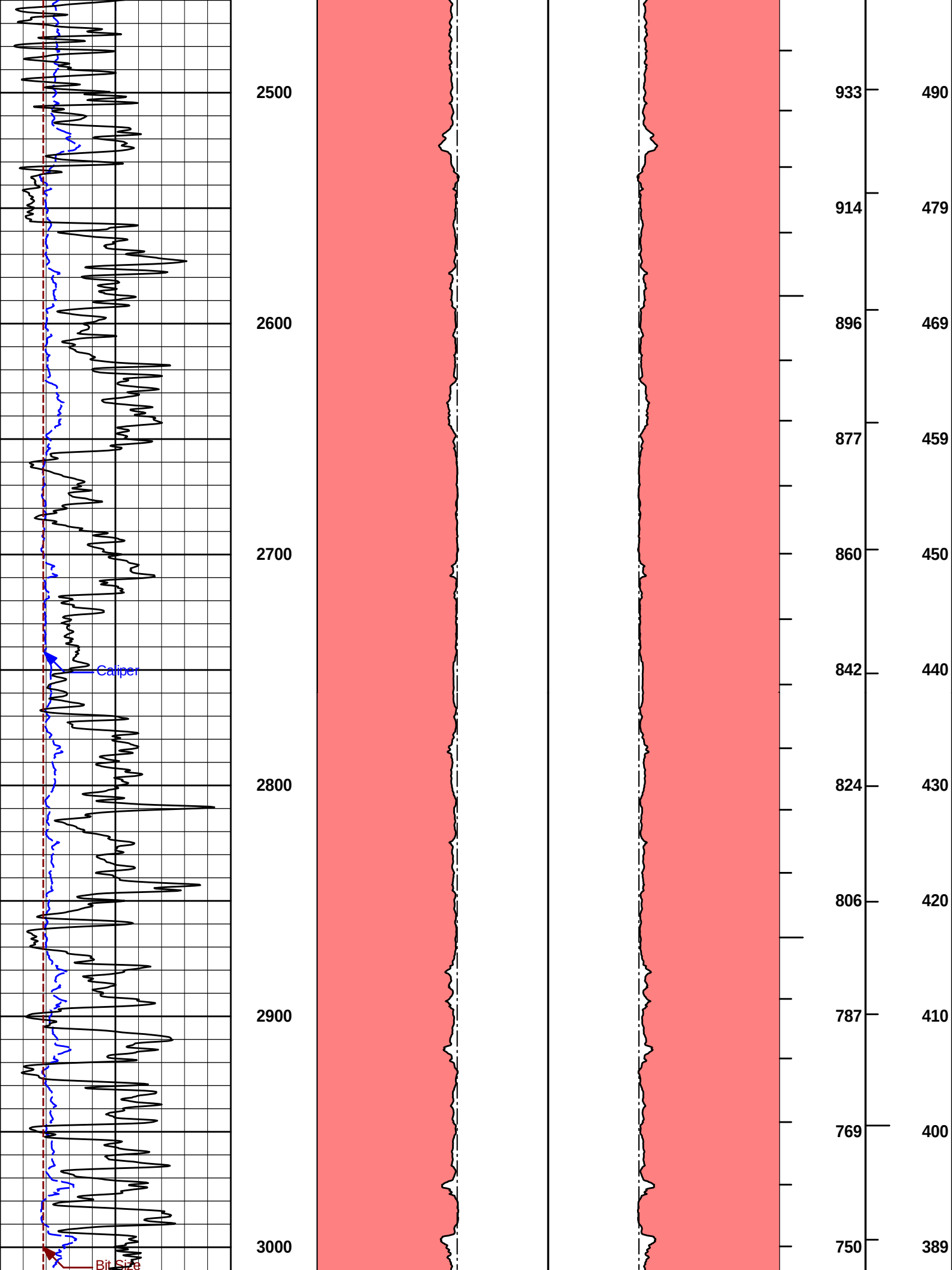
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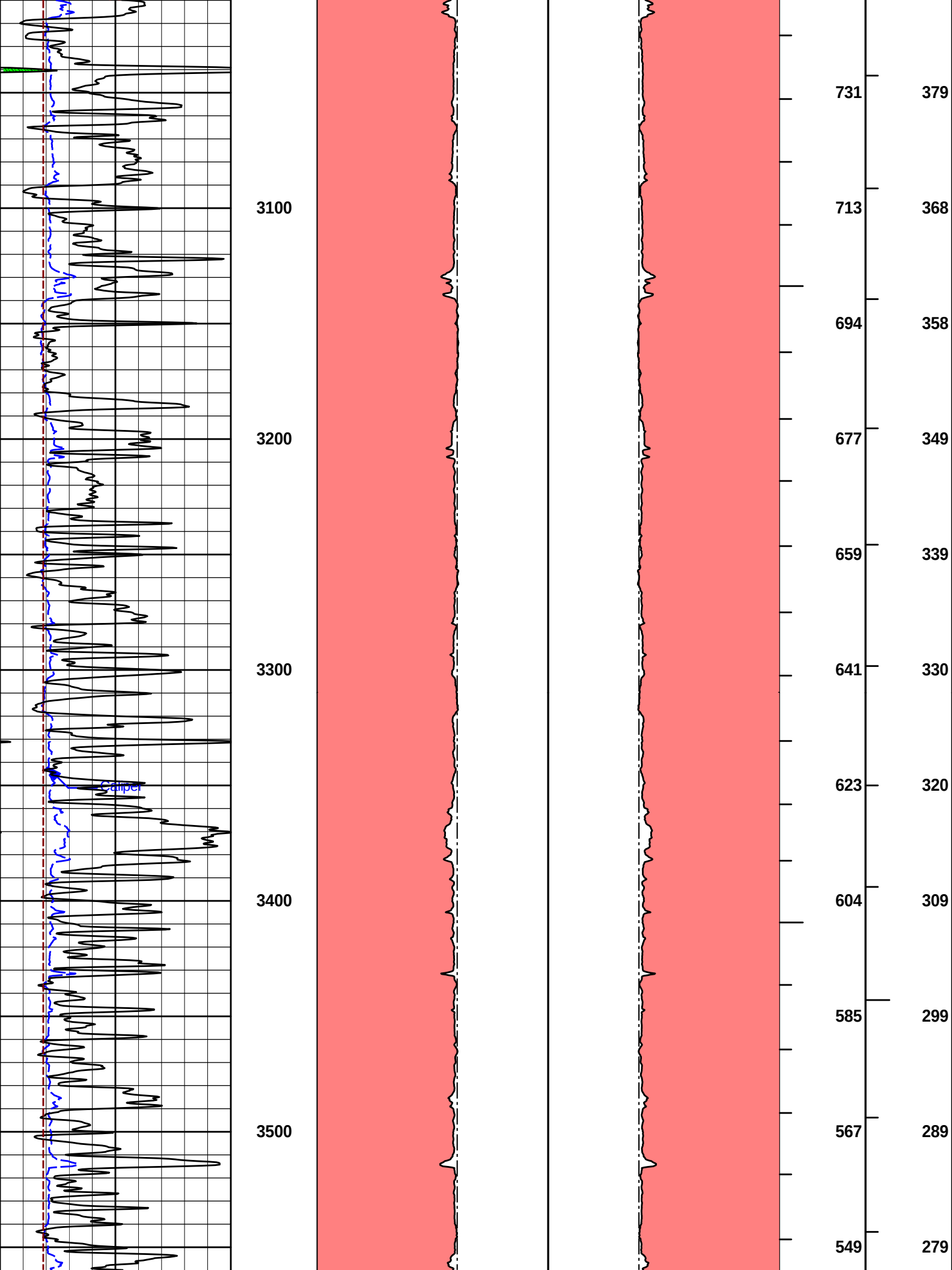
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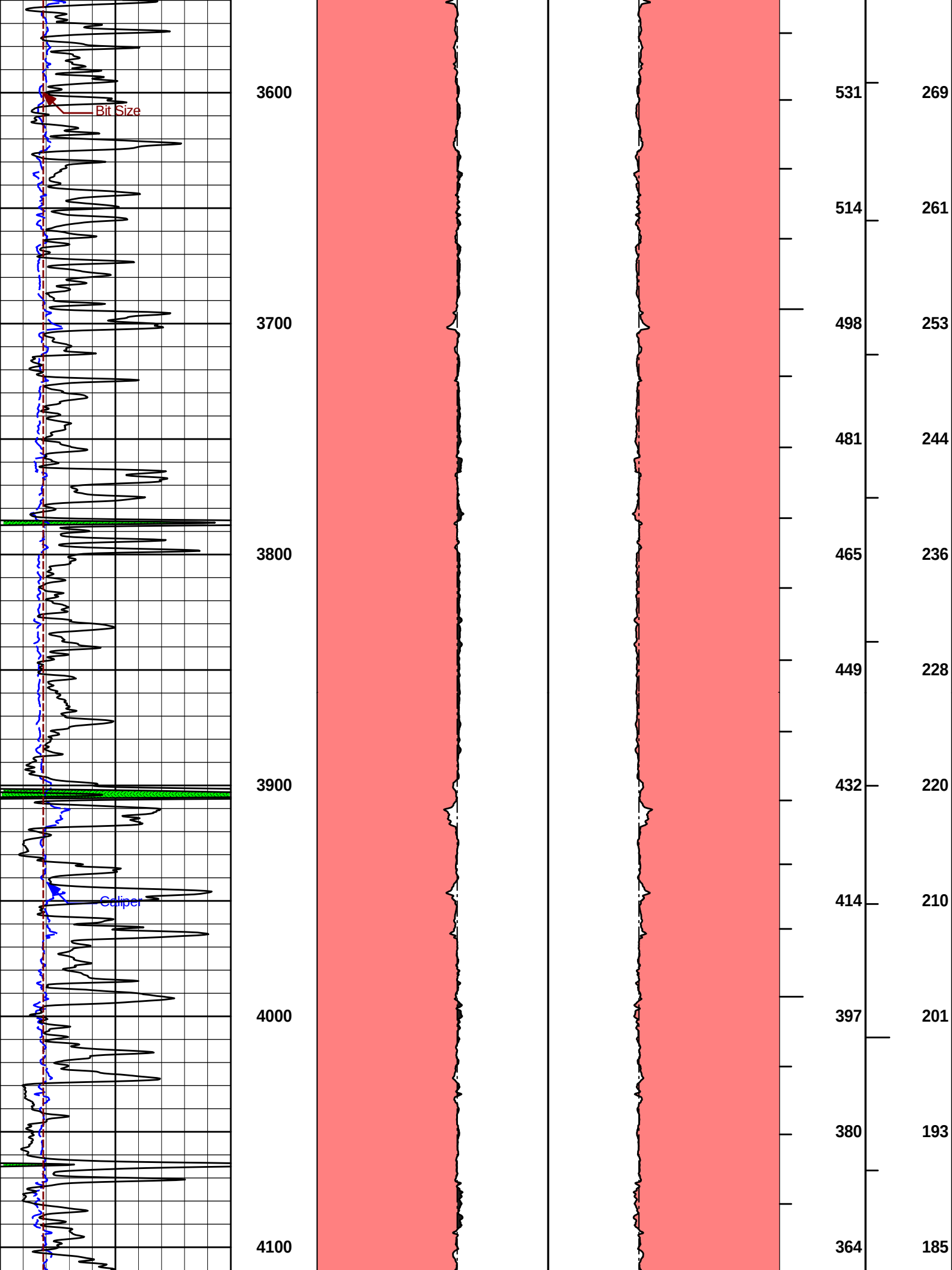
ANNULAR HOLE VOLUME PLOT

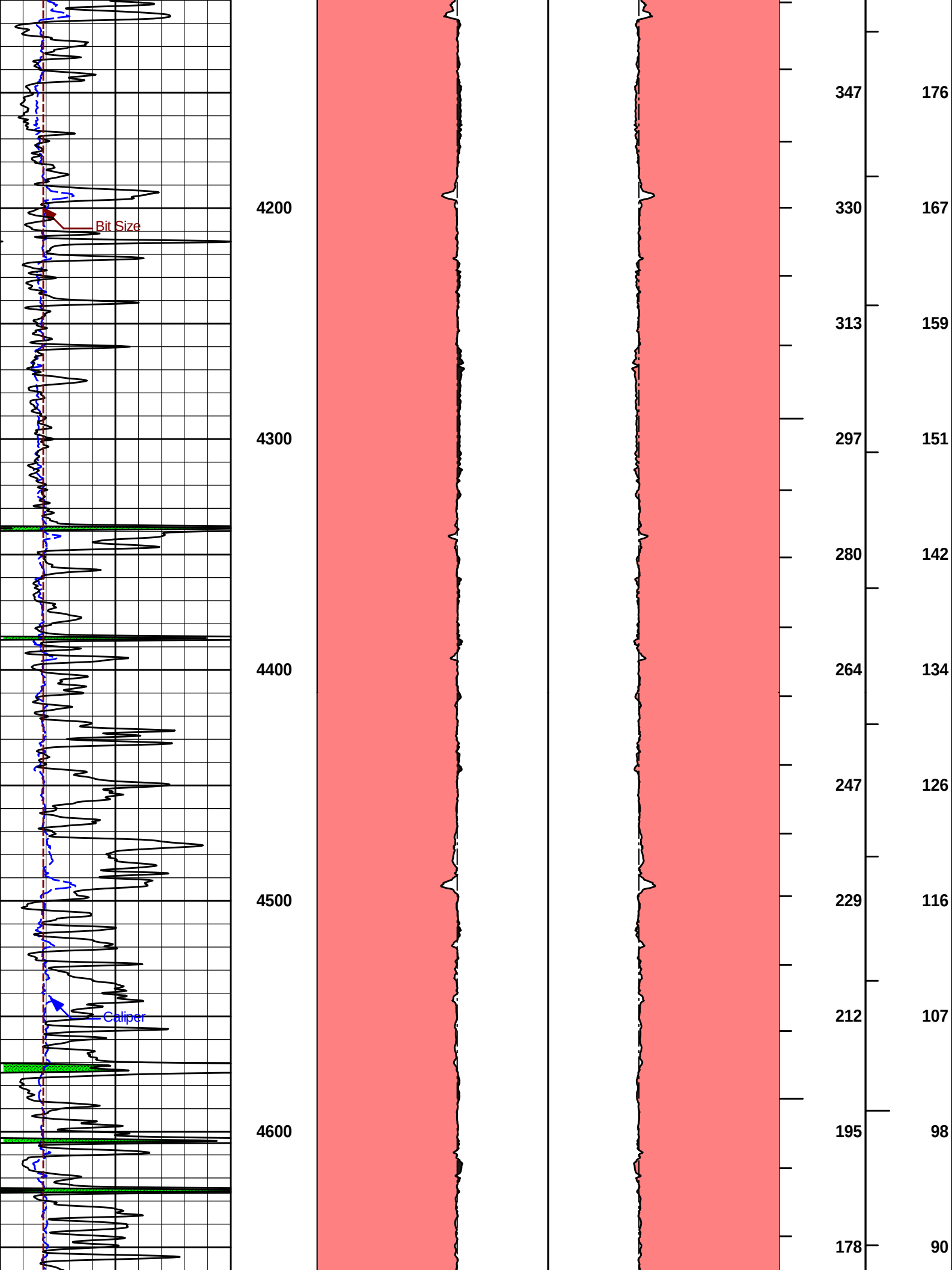


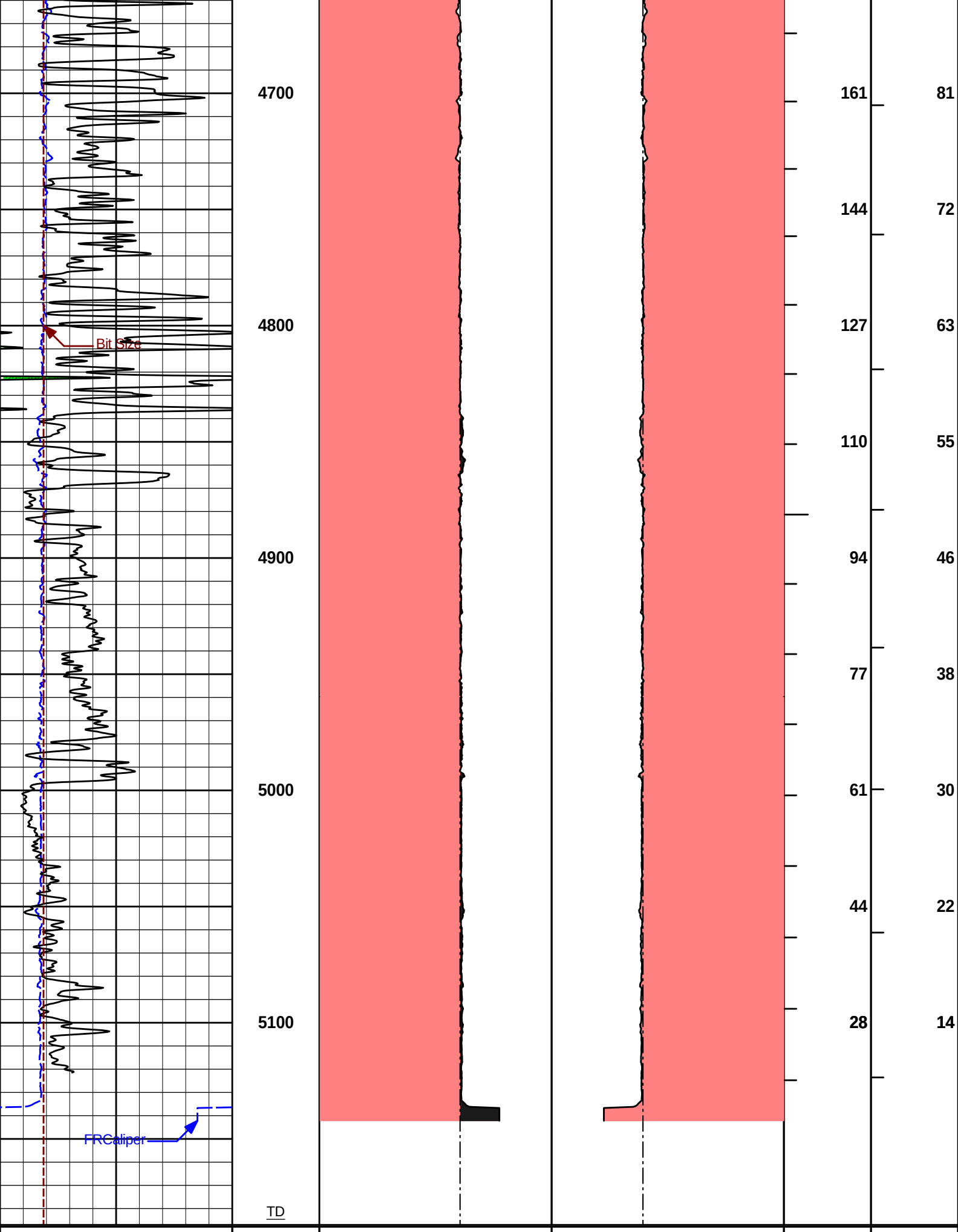

Caliper
Bit Size
2000
2100
2200
2300
2400
1165
1143
1121
1098
1072
1050
1031
1012
992
973
952
631
618
604
589
571
558
547
536
524
513
501

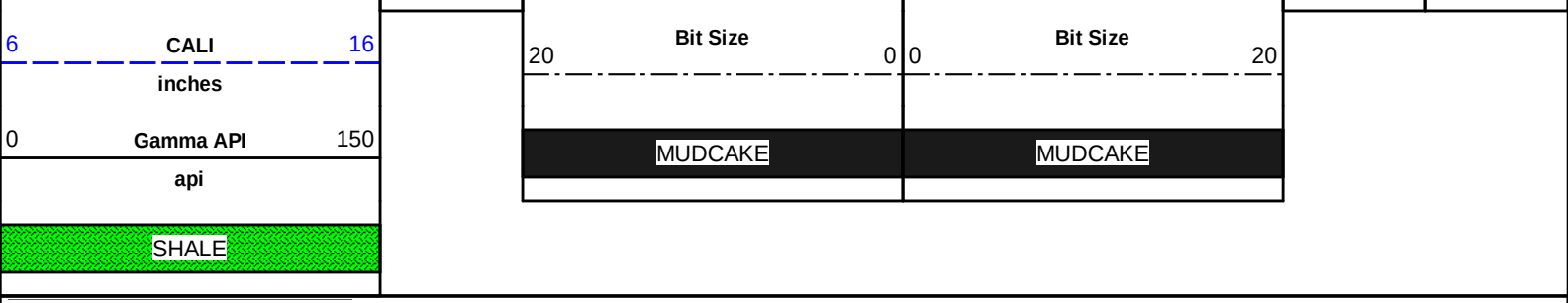

Caliper
BitSize
2500
2600
2700
2800
2900
3000
933
914
896
877
860
842
824
806
787
769
750
490
479
469
459
450
440
430
420
410
400
389


Caliper
3100
3200
3300
3400
3500
731
379
713
368
694
358
677
349
659
339
641
330
623
320
604
309
585
299
567
289
549
279


Bit Size
Caliper
3600
3700
3800
3900
4000
4100
531
514
498
481
465
449
432
414
397
380
364
269
261
253
244
236
228
220
210
201
193
185


Bit Size
Caliper
4200
4300
4400
4500
4600
347
330
313
297
280
264
247
229
212
195
178
176
167
159
151
142
134
126
116
107
98
90


Bit Size
FRCaliper
4700
4800
4900
5000
5100
TD
161
144
127
110
94
77
61
44
28
81
72
63
55
46
38
30
22
14
6
Bit Size
16
inches
1 : 600
ft
20
CALI
0
inches
0
CALI
20
inches
BHVT
AHVT



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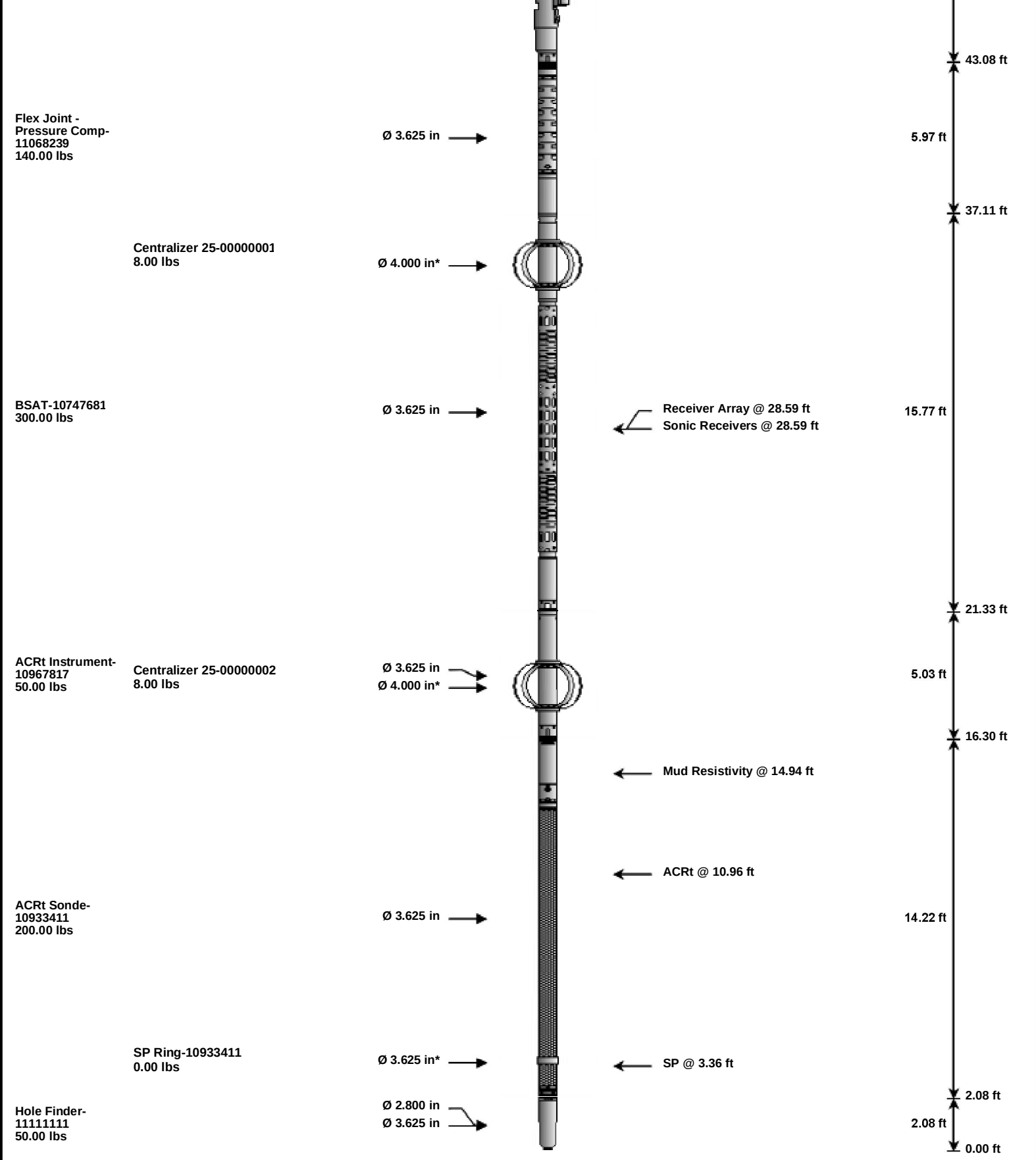
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ANNULAR HOLE VOLUME PLOT

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TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
		Ø 2.310 in		Fishing Neck @ 77.47 ft		78.35 ft
RWCH-12027540 135.00 lbs		Ø 3.625 in		Load Cell @ 74.66 ft BH Temperature @ 74.10 ft	6.25 ft	
	Weak Point 12000 lbs-00000012 0.01 lbs	Ø 0.010 in*		Z-Accelerometer @ 71.65 ft		72.10 ft
GTET-11405267 165.00 lbs		Ø 3.625 in		GammaRay @ 66.04 ft	8.52 ft	
						63.58 ft
	DSN Decentralizer-11019643 6.60 lbs	Ø 5.000 in*				
DSNT-11019641 174.00 lbs		Ø 3.625 in		DSN Far @ 56.64 ft DSN Near @ 55.89 ft	9.69 ft	
						53.89 ft
	SDLT Pad-10865883 65.00 lbs					
SDLT-10695352 360.00 lbs	Microlog Pad-10695352 8.00 lbs	Ø 4.500 in			10.81 ft	
	RAM-Cs137-10020004 1.00 lbs	Ø 4.500 in* Ø 4.750 in* Ø 0.800 in*		Microlog @ 46.08 ft SDL Caliper @ 45.89 ft SDL @ 45.88 ft		



Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)		Accumulated Length (ft)	Max.Log. Speed (fpm)
RWCH	Releasable Wireline Cable Head	12027540	135.00	6.25		72.10	300.00
WP12K	Weak Point 12000 lbs	00000012	0.01	0.01	*	72.90	300.00
GTET	Gamma Telemetry Tool	11405267	165.00	8.52		63.58	60.00
DSNT	Dual Spaced Neutron	11019641	174.00	9.69		53.89	60.00
DCNT	DSN Decentralizer	11019643	6.60	5.13	*	57.22	300.00
SDLT	Spectral Density Tool	10695352	360.00	10.81		43.08	60.00
SDLP	Density Insite Pad	10865883	65.00	2.55	*	45.29	60.00
Cs137	Logging Source, SDLT-I, 1.78 Ci - Cs137	10020004	1.00	0.80	*	45.52	300.00

MICP	Microlog Pad	10695352	8.00	1.00	*	45.58	60.00
FLEX	Flex Joint - Pressure Compensated	11068239	140.00	5.97		37.11	300.00
BSAT	Borehole Sonic Array Tool	10747681	300.00	15.77		21.33	60.00
OBCEN	Centralizer - 25 in. Overbody	00000001	8.00	2.08	*	33.99	300.00
ACRt	Array Compensated True Resistivity Instrument Section	10967817	50.00	5.03		16.30	120.00
OBCEN	Centralizer - 25 in. Overbody	00000002	8.00	2.08	*	17.29	300.00
ACRt	Array Compensated True Resistivity Sonde Section	10933411	200.00	14.22		2.08	120.00
SP	SP Ring	10933411	0.00	0.25	*	3.36	300.00
HFND	Hole Finder	11111111	50.00	2.08		0.00	300.00
Total			**1,670.61**	**78.35**			

* Not included in Total Length and Length Accumulation.

Data: 10_04_MERIT\0001 GTET-DSNT-SDLT-BSAT-ACRT\IDLE **Date: 04-Oct-22 06:05:33**

COMPANY	**MERIT ENERGY COMPANY, LLC**		
WELL	**NORTH REEVE 1-11**		
FIELD	**WILDCAT**		
COUNTY	**FINNEY**	STATE	**KS**

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5.5 INCH CASING