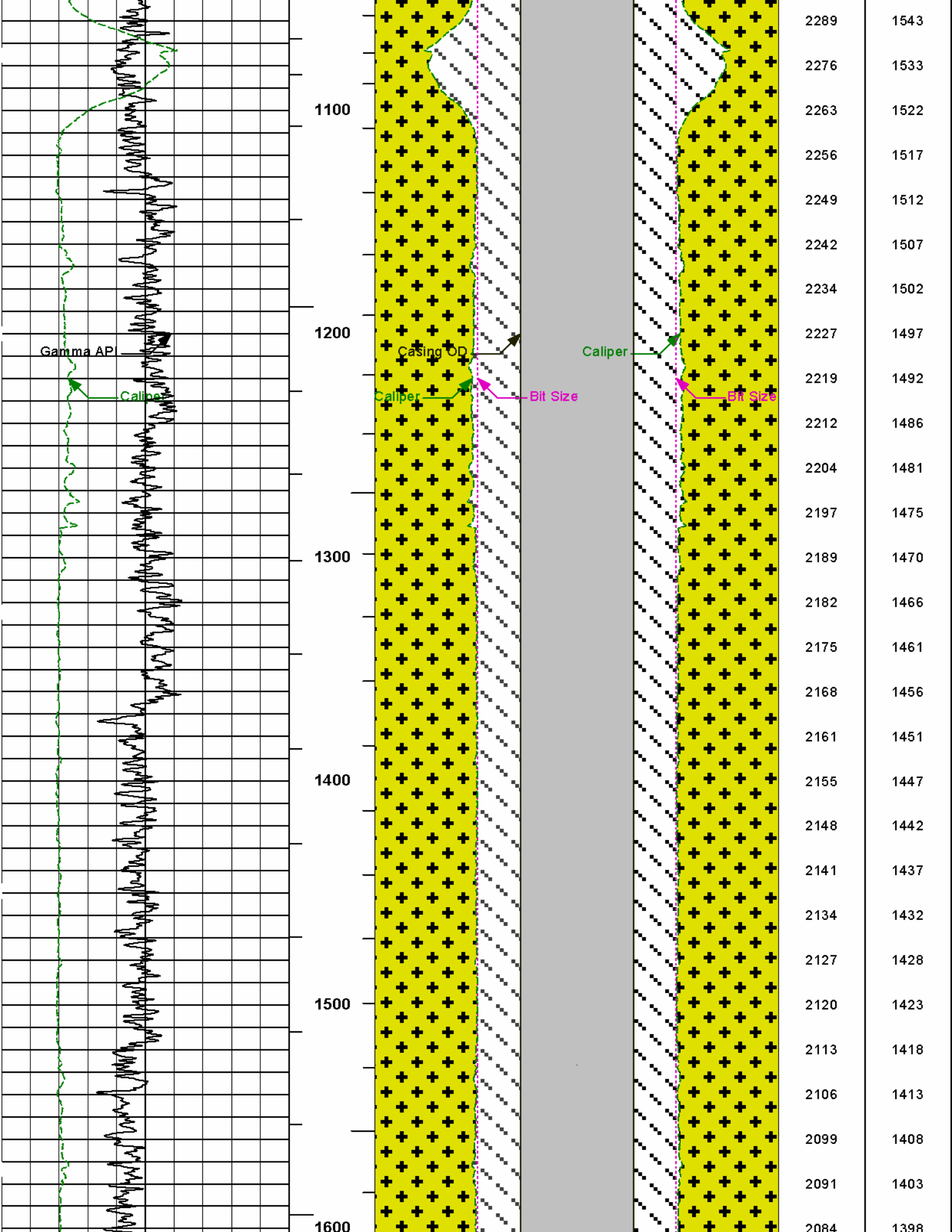
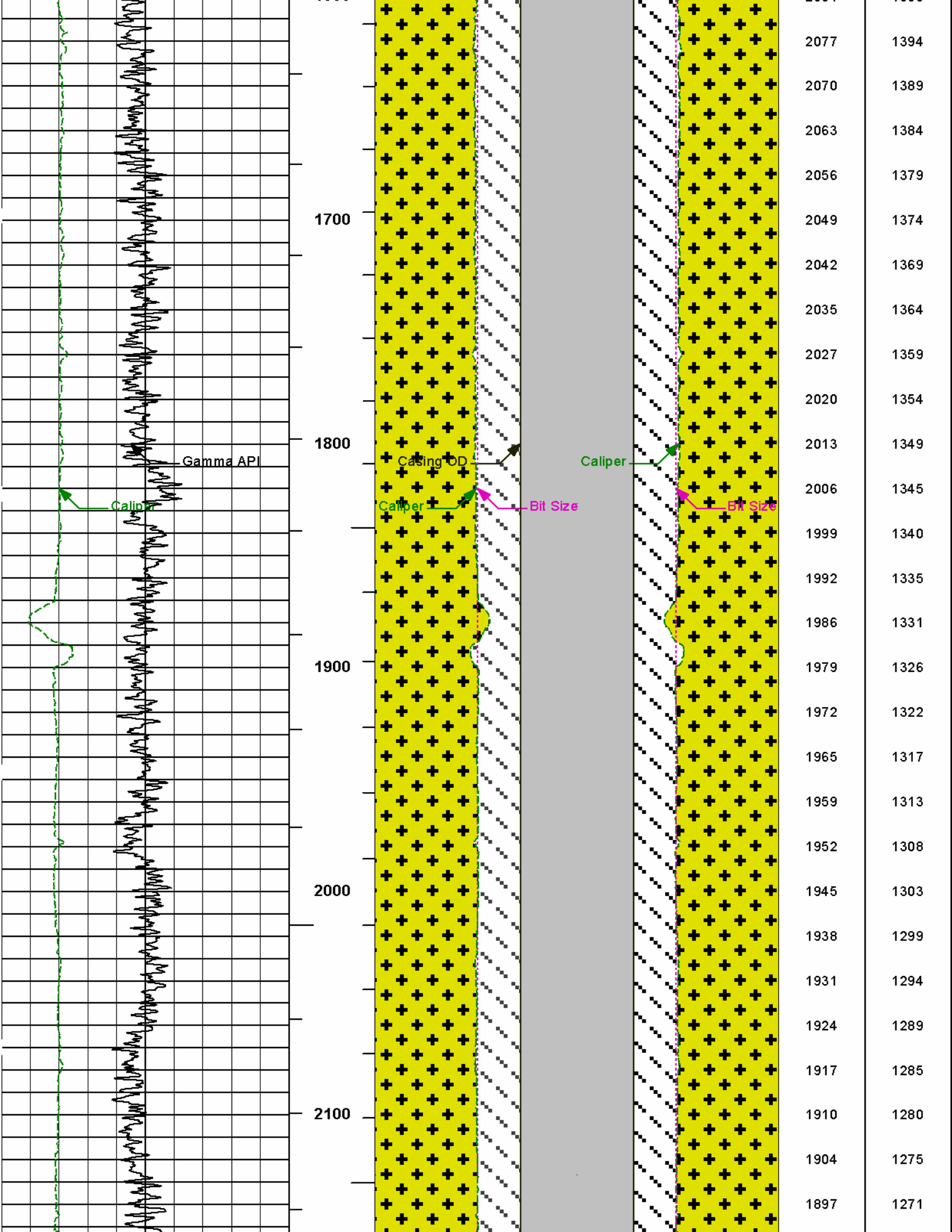


<p>COMPANY WELL FIELD COUNTY STATE</p>	<p>KERR-MCGEE OIL & GAS ONSHORE LP HEIN 2-1 WATTENBERG WELD CO</p>
<p>Permanent Datum Log measured from Drilling measured from</p>	<p>GL KB KB</p>
<p>Date Run No.</p>	<p>14-Apr-12 ONE</p>
<p>Depth - Driller Depth - Logger Bottom - Logged Interval Top - Logged Interval Casing - Driller Casing - Logger Bit Size</p>	<p>8245.00 ft 7796.0 ft 7766 ft CSG 8.625 in @ 943.0 ft 937.0 ft 7.875 in</p>
<p>Type Fluid in Hole</p>	<p>WATER BASED MUD</p>
<p>Density PH</p>	<p>8.4 ppG 8.00 pH</p>
<p>Source of Sample</p>	<p>MUD CELL</p>
<p>Rm @ Meas. Temperature Rmf @ Meas. Temperature Rmc @ Meas. Temperature Source Rmf Rm @ BHT</p>	<p>1.060 ohm @ 76.60 degF 0.92 ohm @ 75.00 degF 0.972 ohm @ 75.00 degF CHART 0.43 ohm @ 198.0 degF</p>
<p>Time Since Circulation Time on Bottom</p>	<p>7.0 hr 14-Apr-12 06:03</p>
<p>Max. Rec. Temperature Equipment Recorded By Witnessed By</p>	<p>198.0 degF @ 7796.0 ft 10800785 BRIGHTON A. ZWALI BEN BENJAMIN</p>
<p>Other Services: RWCH GTET DSNT SDLT IDT ACRT</p>	<p>Elev. 4896.0 ft Elev.: K.B. 4911.0 ft D.F. 4911.0 ft G.L. 4896.0 ft</p>

Fold here

Service Ticket No.: N/A		API Serial No.: 05123350760000		PGM Version: WL INSITE R3.4.4 (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.
Rmf @ Meas. Temp.	@	@		ONE	ACRT	N/A	1.25" S.O.
Rmc @ Meas. Temp.	@	@			E5787-S5797		
Source Rmf	Rmc						
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.	11215095	Serial No.		Serial No.	M319_P123	Serial No.	11277440
Model No.	GTET	Model No.		Model No.	SDLT	Model No.	DSNT
Diameter	3.625"	No. of Cent.		Diameter	4.5"	Diameter	3.625"
Detector Model No.	GTET	Spacing		Log Type	GAM/GAM	Log Type	NEU/NEU
Type	SCINT			Source Type	Cs137	Source Type	Am 241Be
Length	8"	LSA [Y/N]		Serial No.	5256GW	Serial No.	DSN-430
Distance to Source	10'	FWDA [Y/N]		Strength	1.5 Ci	Strength	15 Ci
LOGGING DATA							
GENERAL		GAMMA		ACOUSTIC		DENSITY	





Gamma API

Caliper

Casing OD

Caliper

Bit Size

Caliper

Bit Size

1700

1800

1900

2000

2100

2077

2070

2063

2056

2049

2042

2035

2027

2020

2013

2006

1999

1992

1986

1979

1972

1965

1959

1952

1945

1938

1931

1924

1917

1910

1394

1389

1384

1379

1374

1369

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1308

1303

1299

1294

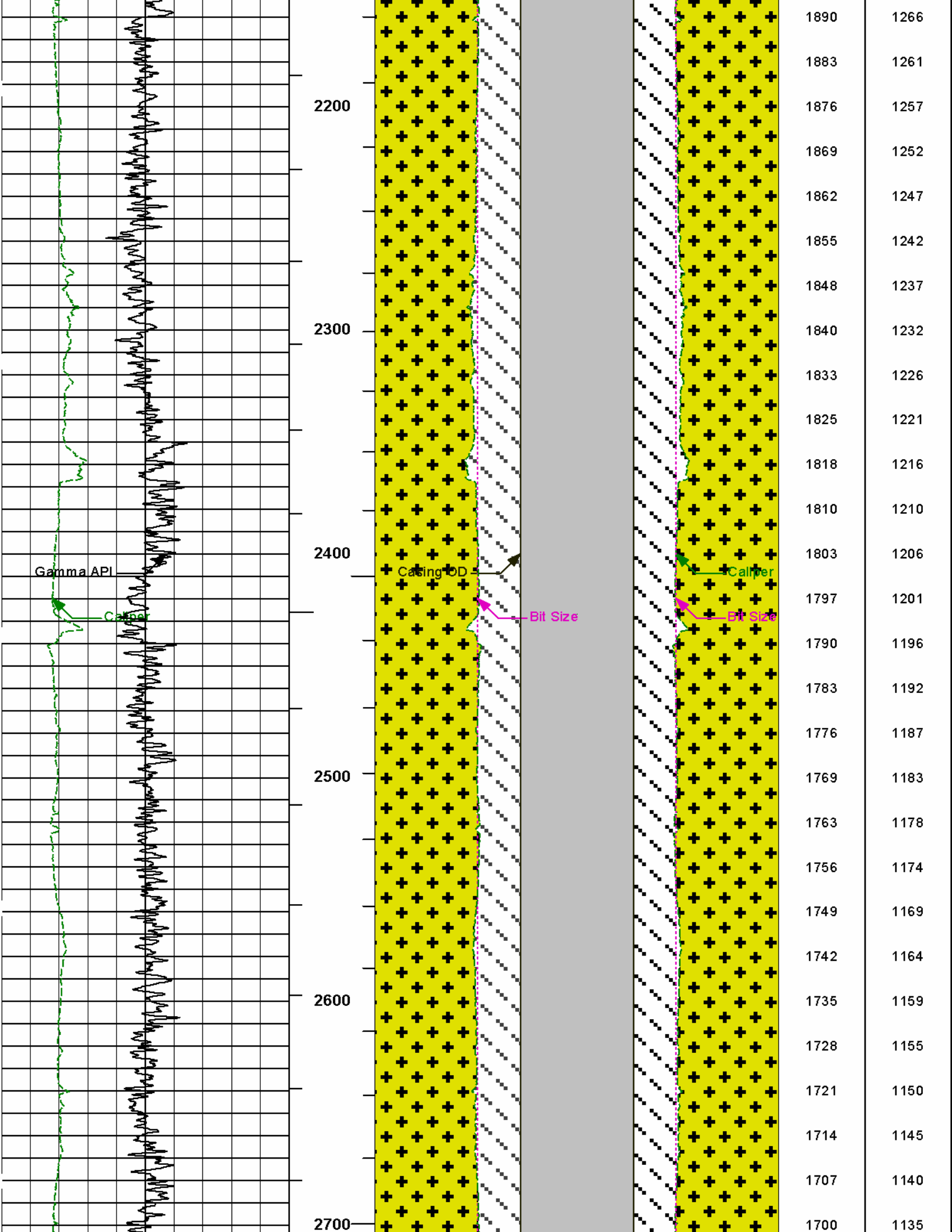
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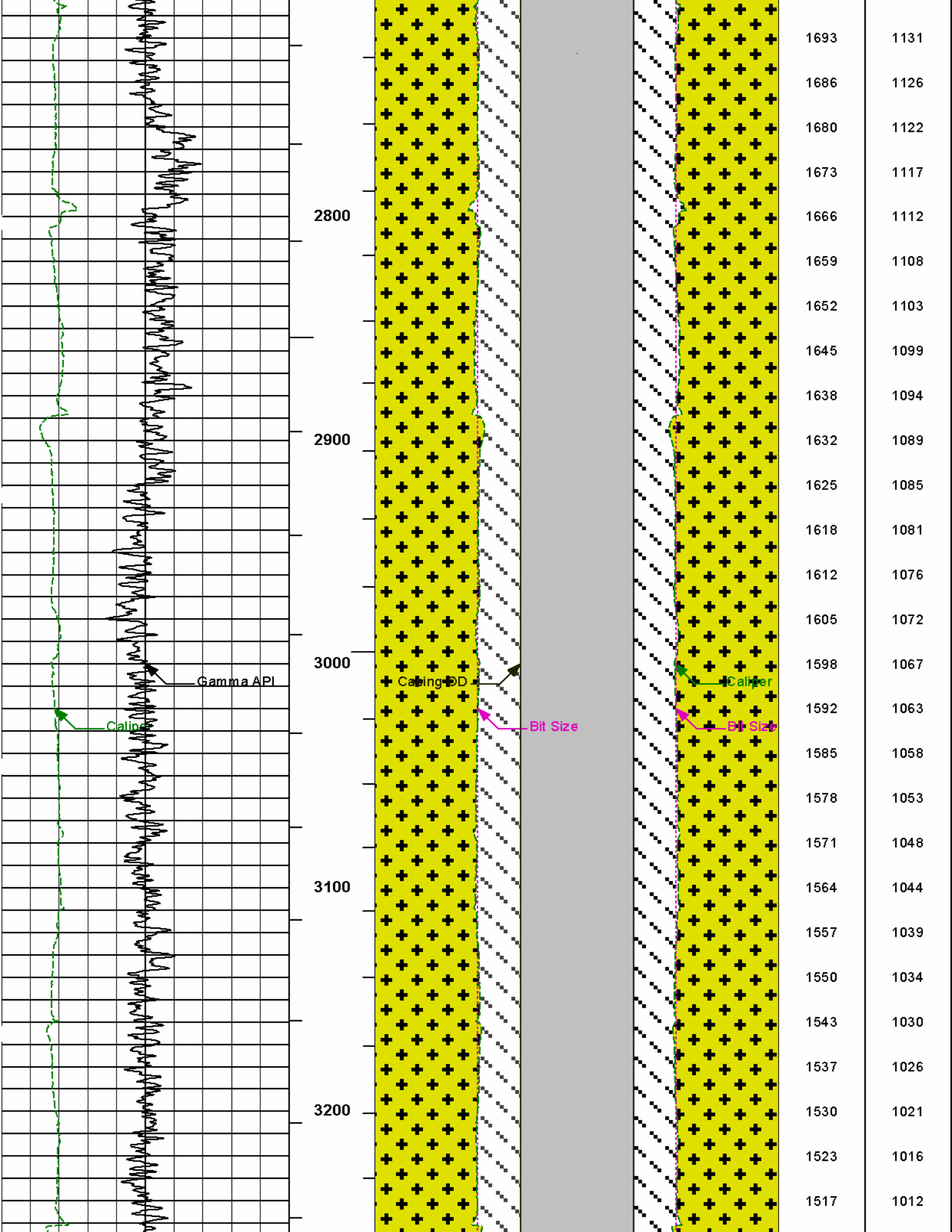
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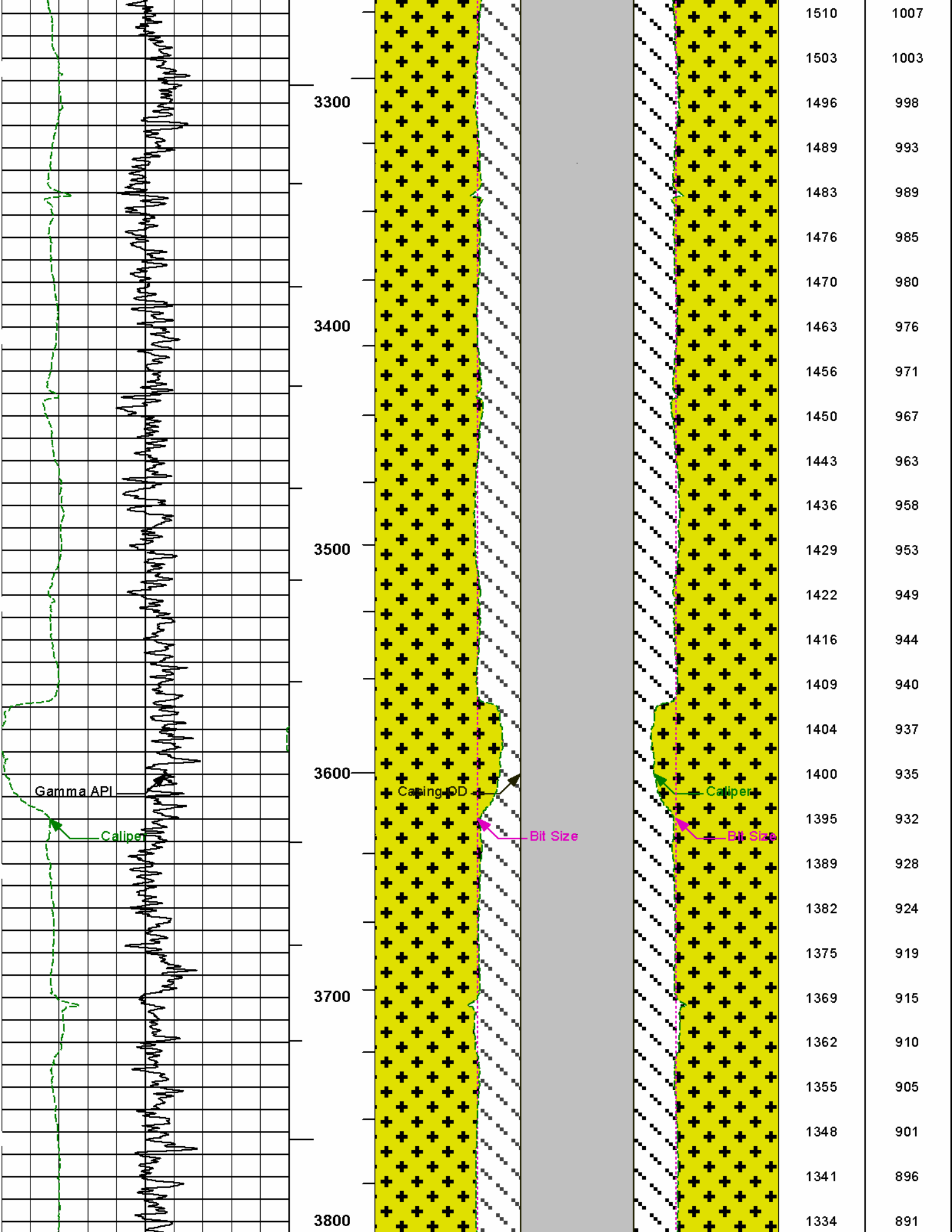
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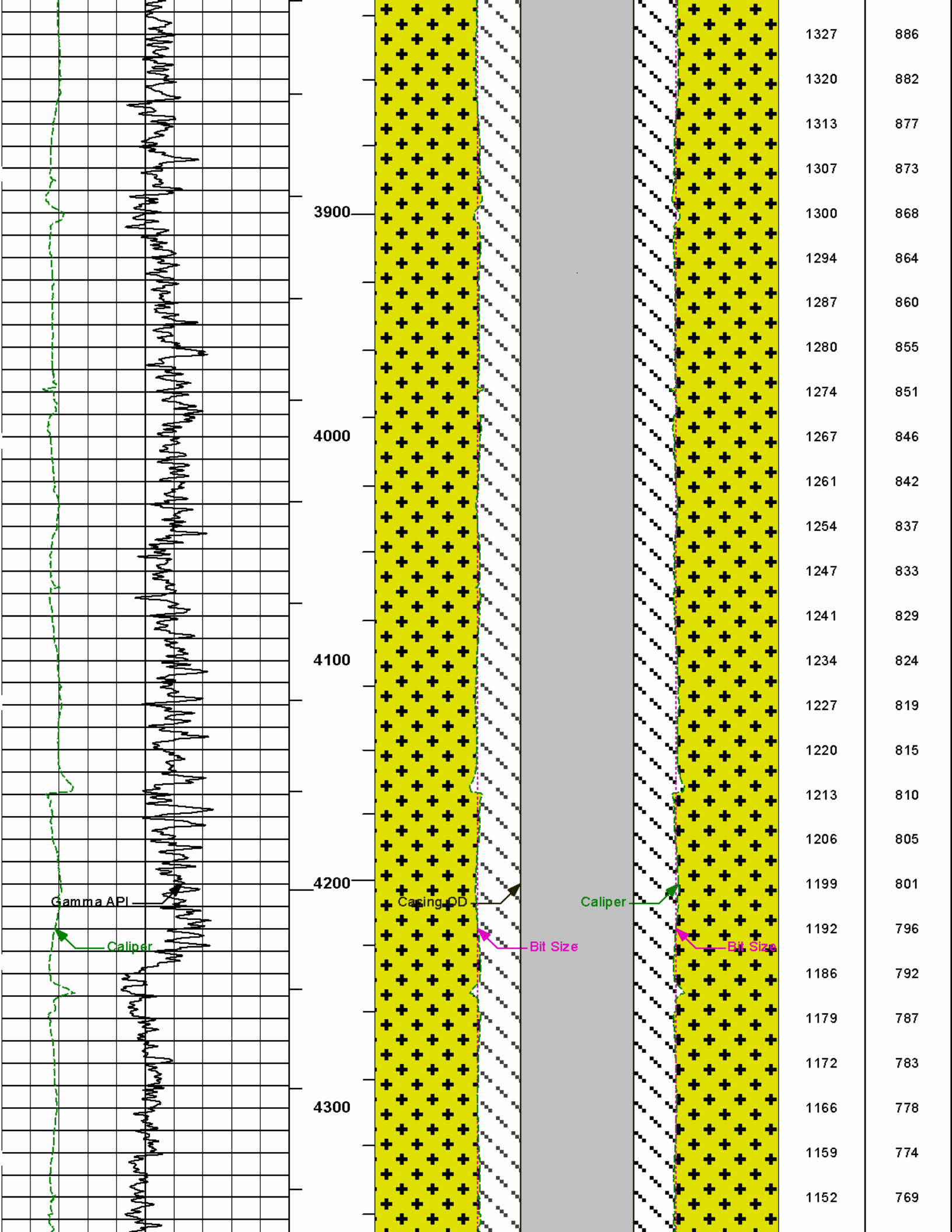
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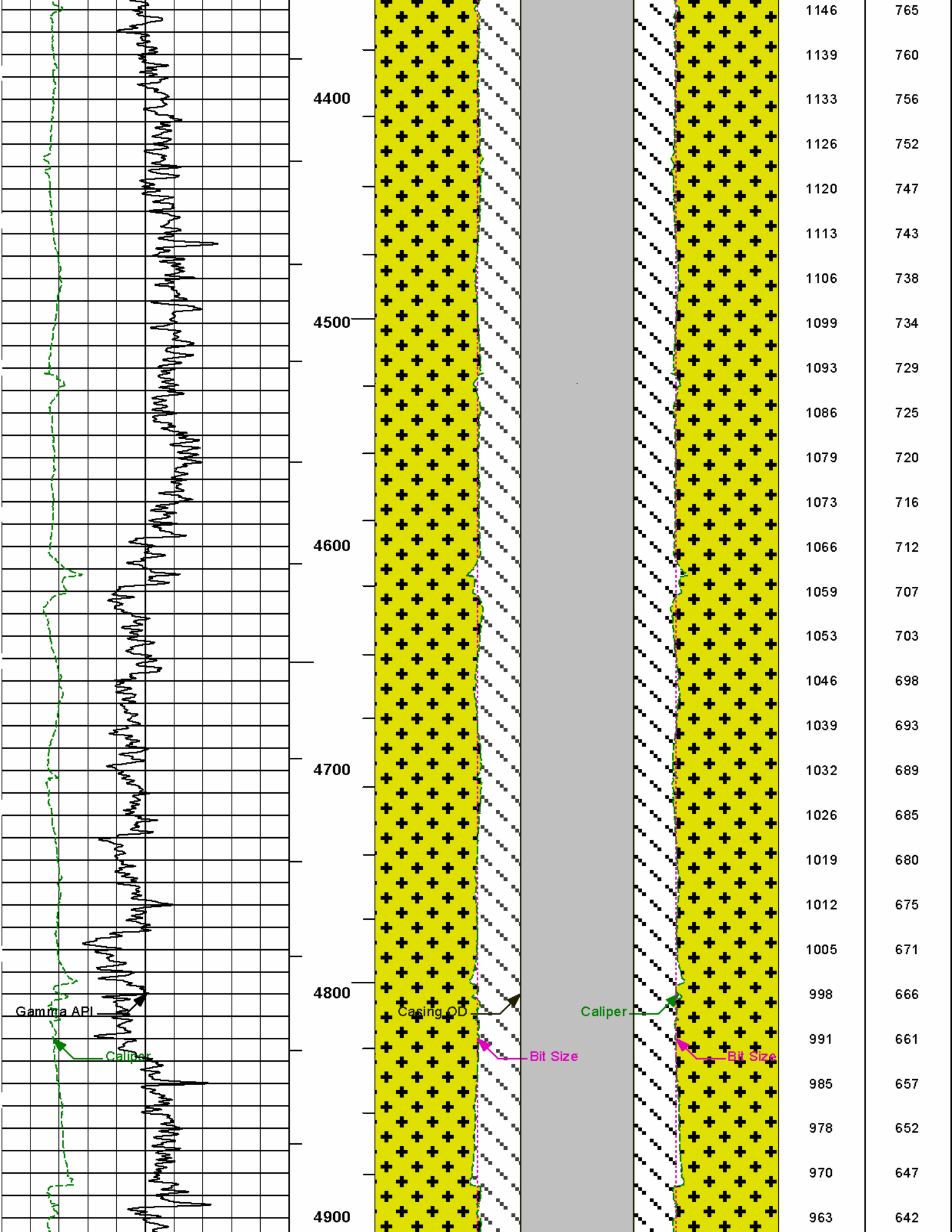
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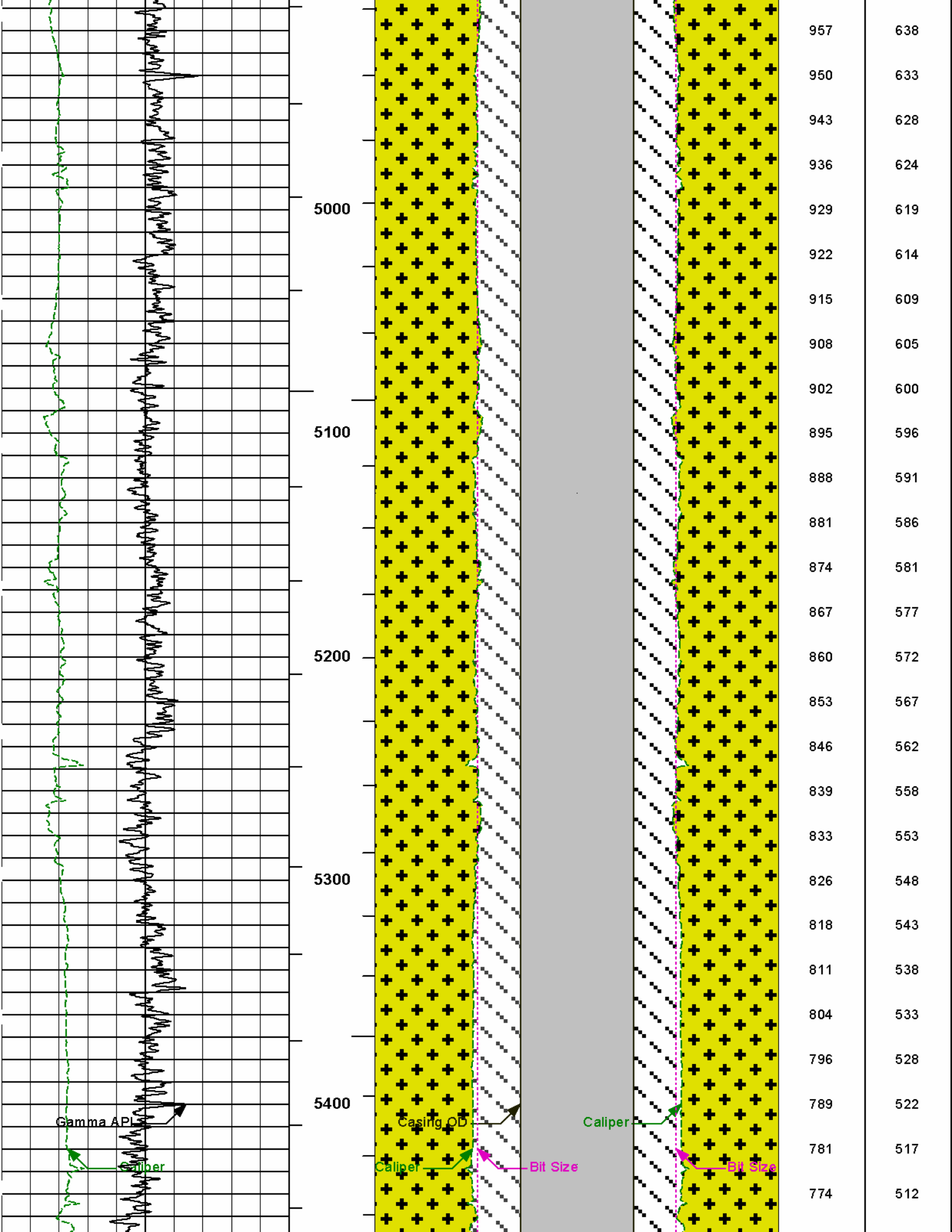


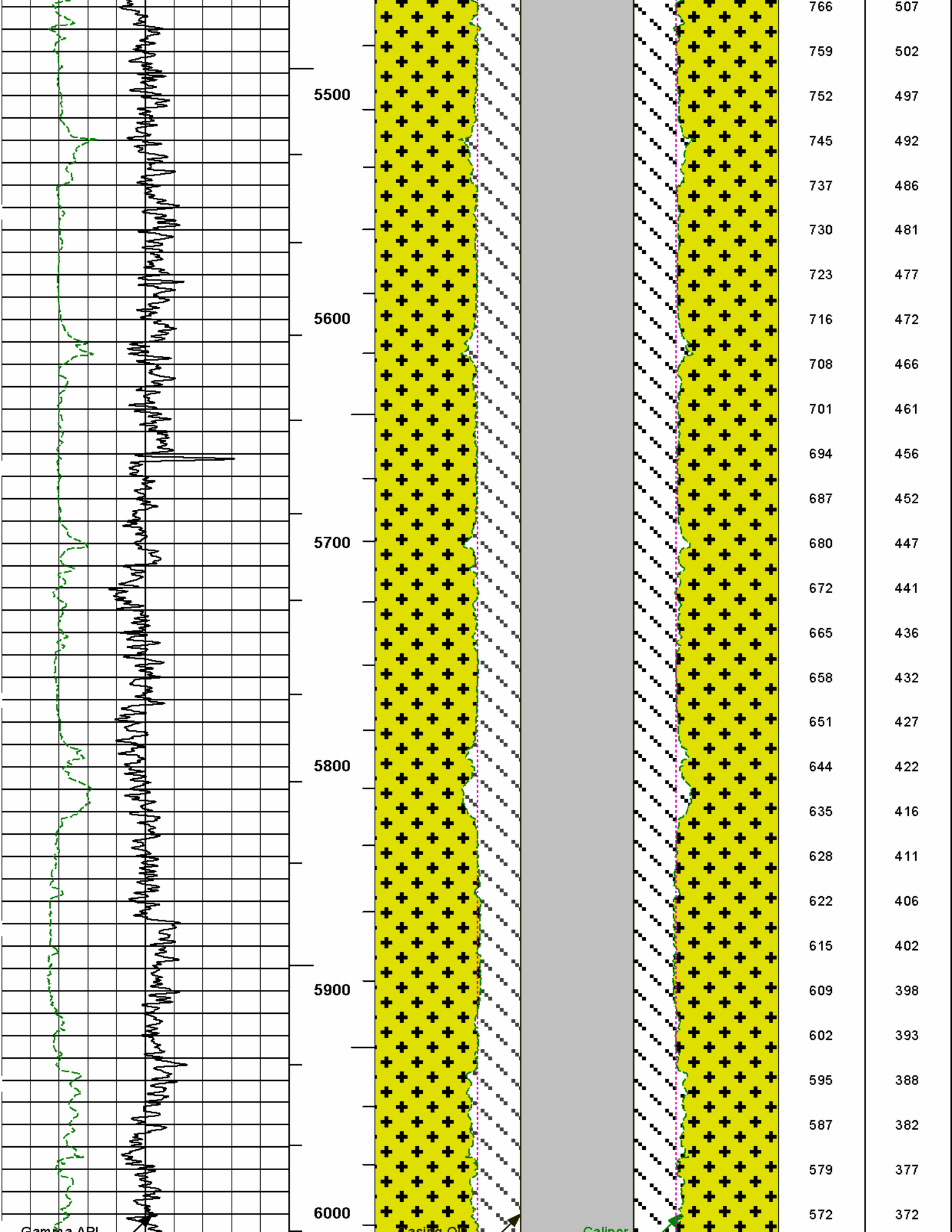


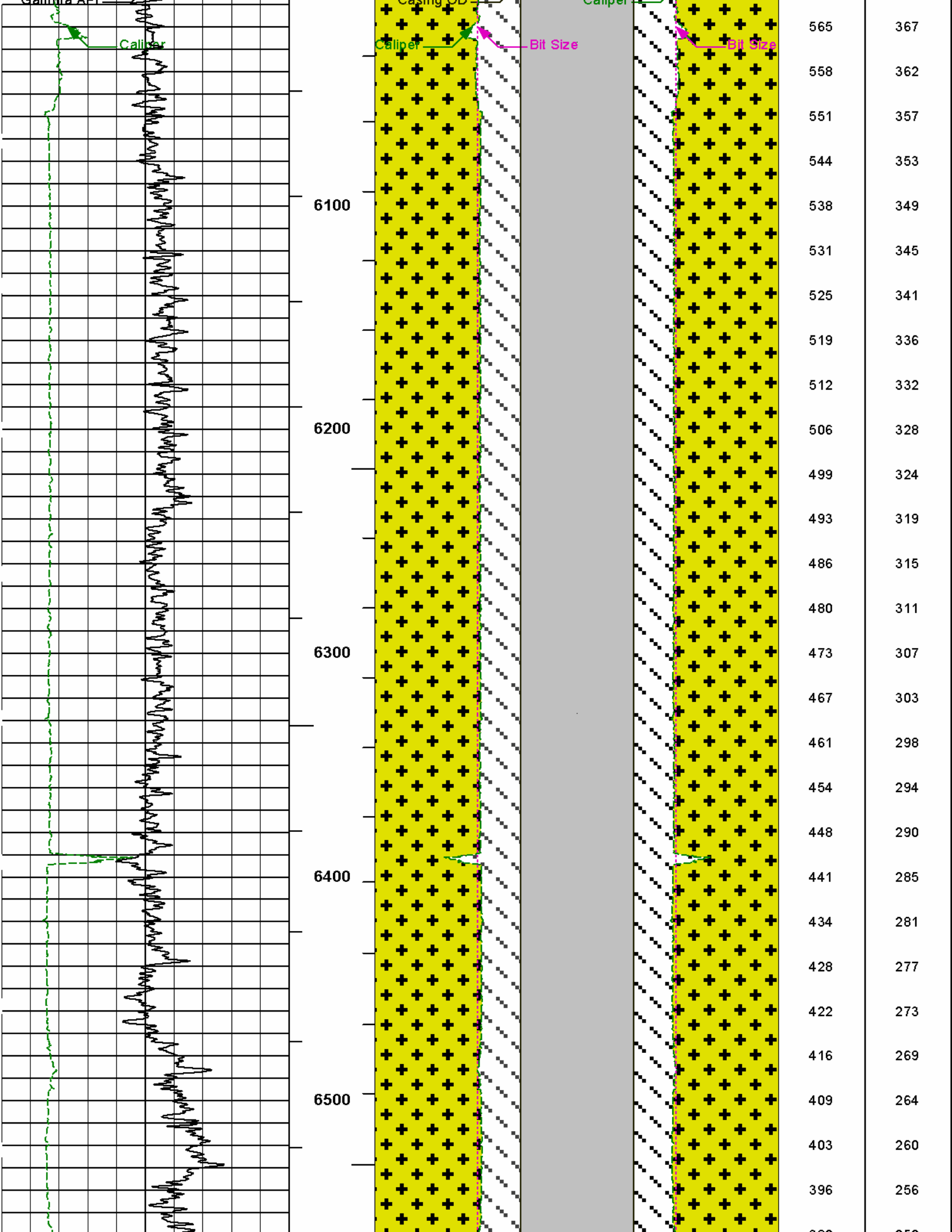


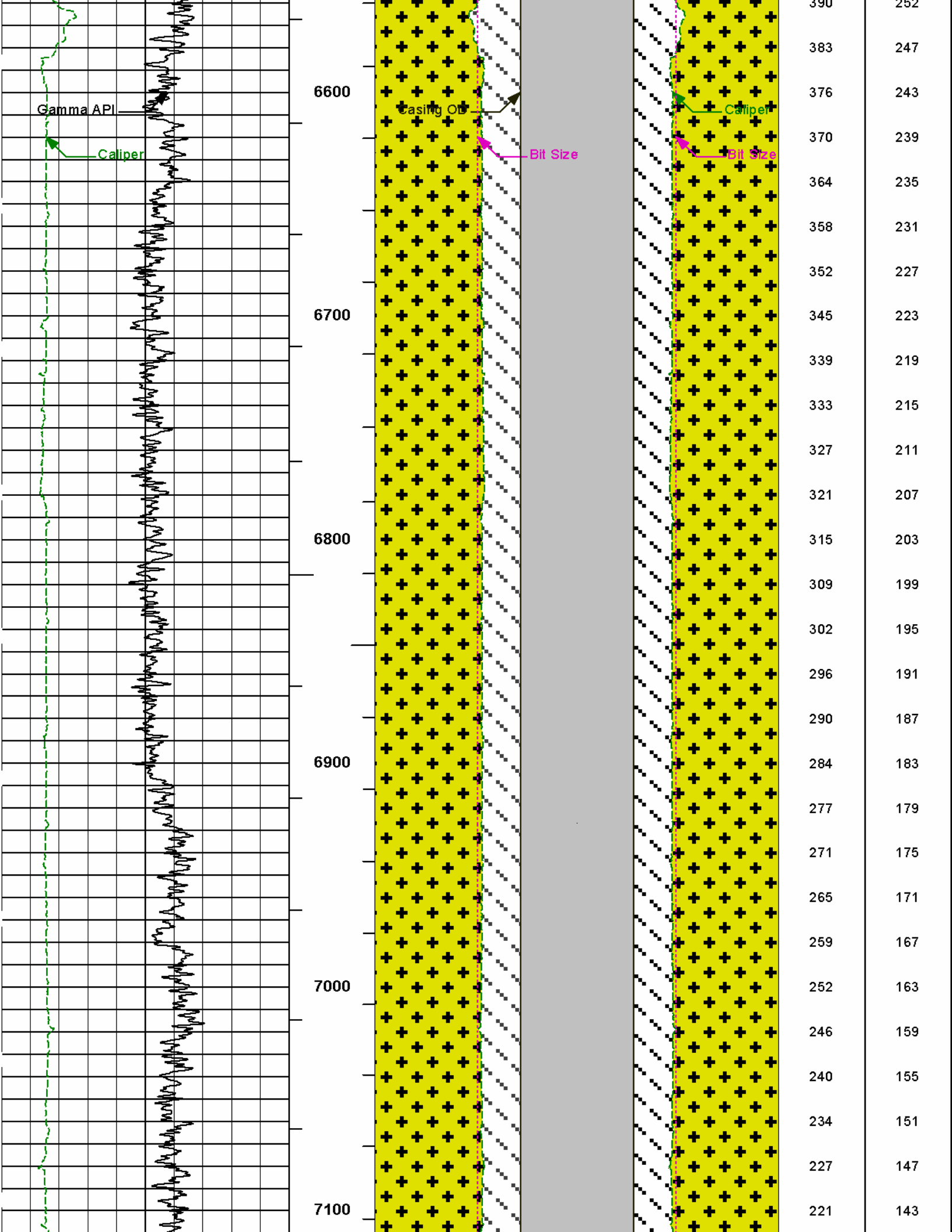


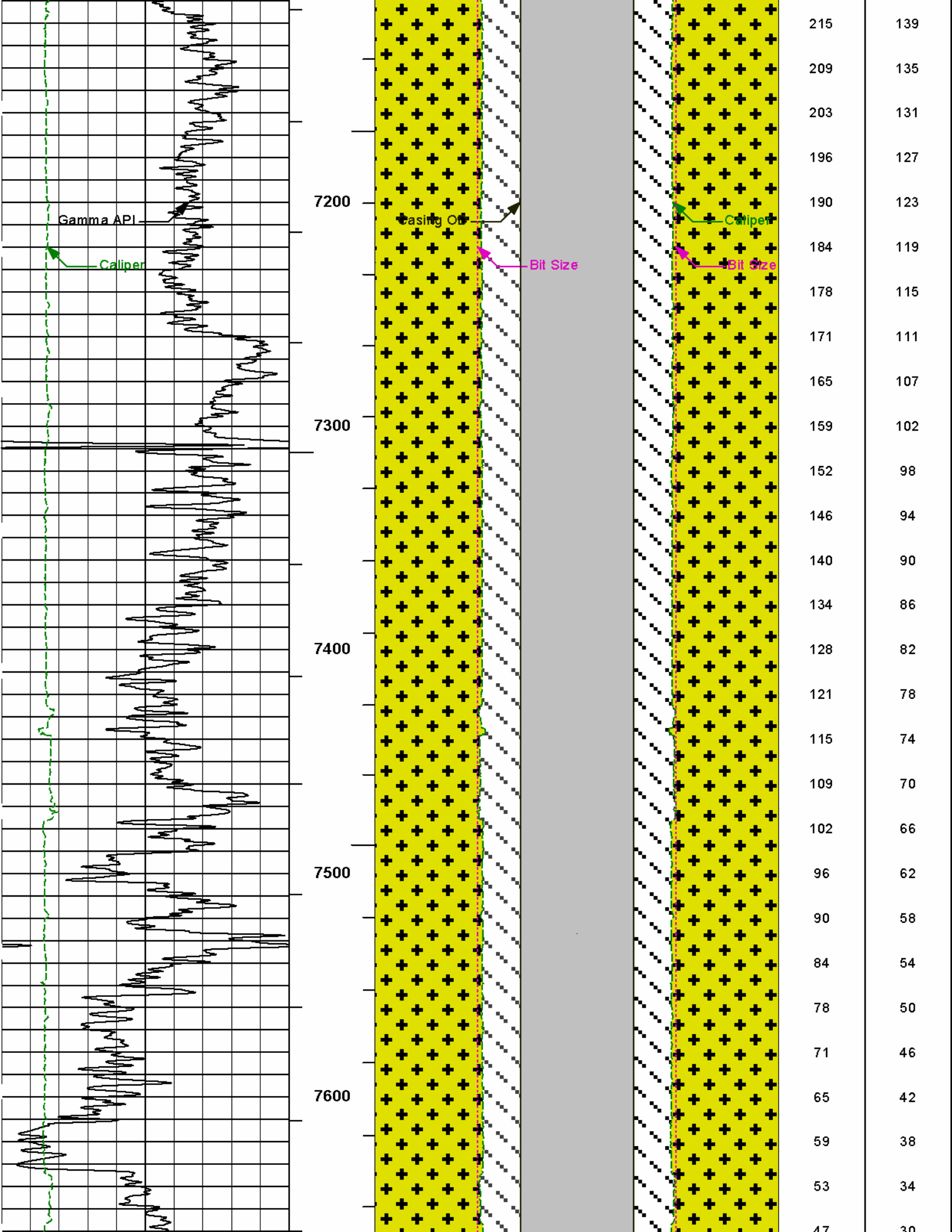


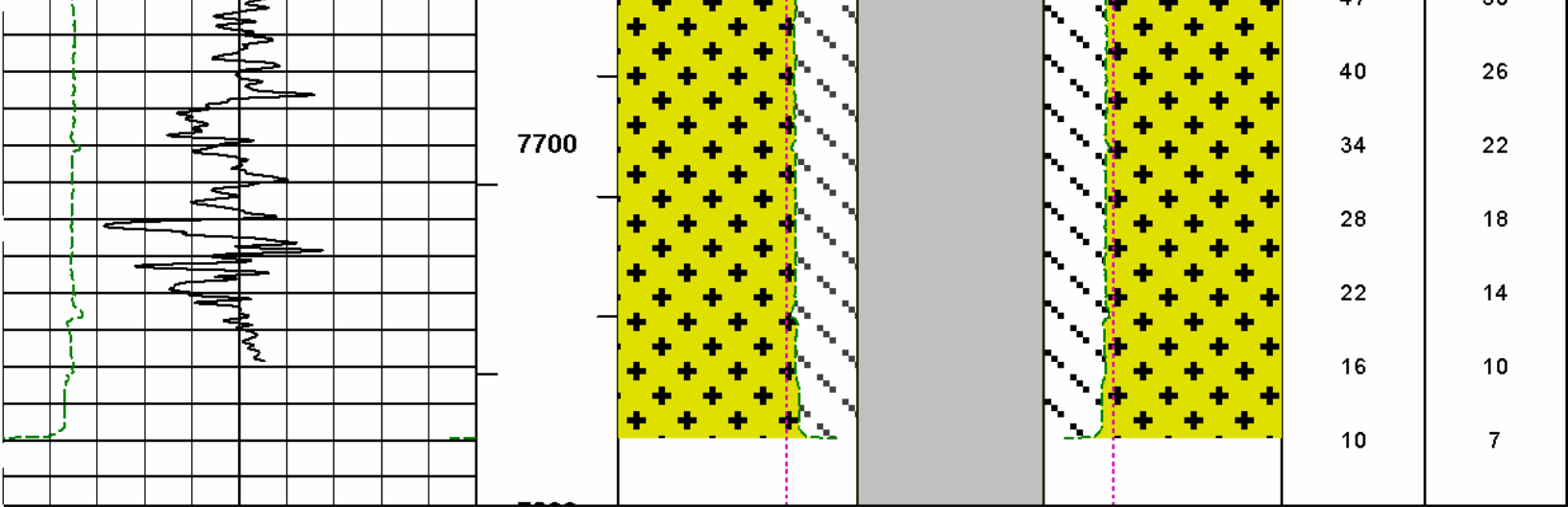












0	Gamma API	200	1 : 600	16	Caliper	0 0	Caliper	16	BHVT	AHVT
	api				inches		inches			
6	Caliper	16	BHVT		Casing OD		Casing OD			
	inches									
			AHVT	16	Bit Size	0 0	Bit Size	16		
					inches		inches			

HALLIBURTON

Plot Time: 16-Apr-12 12:07:52
 Plot Range: 927 ft to 7798 ft
 Data: HEIN 2-1\Well Based\DAQ-0001-003.011*
 Plot File: \\BHVIQ_BHV_SDL_RM

AHV USES 4.5" CASING

COMPANY	KERR-MCGEE OIL & GAS ONSHORE LP		
WELL	HEIN 2-1		
FIELD	WATTENBERG		
COUNTY	WELD	STATE	CO

HALLIBURTON

BOREHOLE VOLUME PLOT