HALLIBURTON

SPECTRAL DENSITY DUAL SPACED NEUTRON LOG

VAL ENERGY INC. | TALBOTT #6-9 | BARBER | KANSAS

COMPANY VAL ENERGY INC.

WELL TALBOTT #6-9

FIELD

COUNTY BARBER STATE KANSAS

API No. 15-007-23674

Location 2310' FSL & 825' FEL

Sect. 9 Twp. 34S Rge. 11W

Other Services:
ACRT
MICRO

Permanent Datum		GL		Elev. 1358.0 ft	Elev.: K.B. 1369.0 ft
Log measured from		KB		11.0 ft above perm. Datum	D.F. 1368.0 ft
Drilling measured from		KB			G.L. 1358.0 ft
Date		18-Apr-11			
Run No.		1			
Depth - Driller		4700.00 ft			
Depth - Logger		4691.0 ft			
Bottom - Logged Interval		4668.0 ft			
Top - Logged Interval		3050.0 ft			
Casing - Driller		8.625 in @ 221.0 ft		@	@
Casing - Logger		221.0 ft			
Bit Size		7.875 in		@	@
Type Fluid in Hole		WATER BASED MUD			
Density	Viscosity	9.1 ppg	45.00 s/qt		
PH	Fluid Loss	9.00 pH	10.4 cptm		
Source of Sample		FLOW LINE			
Rm @ Meas. Temperature		0.548 ohmm @ 75.00 degF		@	@
Rmf @ Meas. Temperature		0.46 ohmm @ 75.00 degF		@	@
Rmc @ Meas. Temperature		0.660 ohmm @ 75.00 degF		@	@
Source Rmf	Rmc	MEAS	MEAS		
Rm @ BHT		0.11 ohmm @ 120.0 degF		@	@
Time Since Circulation		6.0 hr			
Time on Bottom		18-Apr-11 08:02			
Max. Rec. Temperature		120.0 degF @ 4691.0 ft		@	@
Equipment	Location	10546696	LIBERAL		
Recorded By		J. BOSH			
Witnessed By		S. VAN BUSKIRK			

Fold here

Service Ticket No.: 8105269 API Serial No.: 15-007-23674 PGM Version: WL INSITE R3.2.0 (Build 7)

CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE

	Date	Sample No.	Type Log	Depth	RESISTIVITY SCALE CHANGES Scale Up Hole	Scale Down Hole
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 EQUIPMENT DATA

	Run No.	Tool Type & No.	Pad Type	Tool Pos.	Other
Run No.					
Serial No.					
Model No.					
Diameter					

EQUIPMENT DATA

	GAMMA Run No.	GAMMA ONE	ACOUSTIC Run No.	ACOUSTIC	DENSITY Run No.	DENSITY ONE	NEUTRON Run No.	NEUTRON ONE
Run No.		ONE				ONE		ONE
Serial No.	11039640					I04_M96_P84		11055304
Model No.	GTET					SDLT		DSNT
Diameter	3.625					4.5		3.625
Detector Model No.	T-102					GAM-GAM		NEU-NEU
Type	SCINT					CS137		AM241BE
Length	8"		LSA [Y/N]			5168 GW		DSN-424
Distance to Source	10'		FWDA [Y/N]			1.5 CI		15 CI

	Run No.	Serial No.	Model No.	No. of Cent.	Spacing			
Serial No.	11039640							
Model No.	GTET							
Diameter	3.625							
Detector Model No.	T-102							
Type	SCINT							
Length	8"		LSA [Y/N]					
Distance to Source	10'		FWDA [Y/N]					

Strength: GAMMA 1.5 CI | ACOUSTIC | DENSITY 15 CI | NEUTRON

LOGGING DATA

GENERAL | GAMMA | ACOUSTIC | DENSITY | NEUTRON

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	3050	REC	0	150				30	-10	2.71	30	-10	LIME

DIRECTIONAL INFORMATION

Maximum Deviation @ KOP @

Remarks: ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING

CHLORIDES: 6500 PPM

GPS COORDINATES: LAT: 37.06 N LONG: 98.30 W

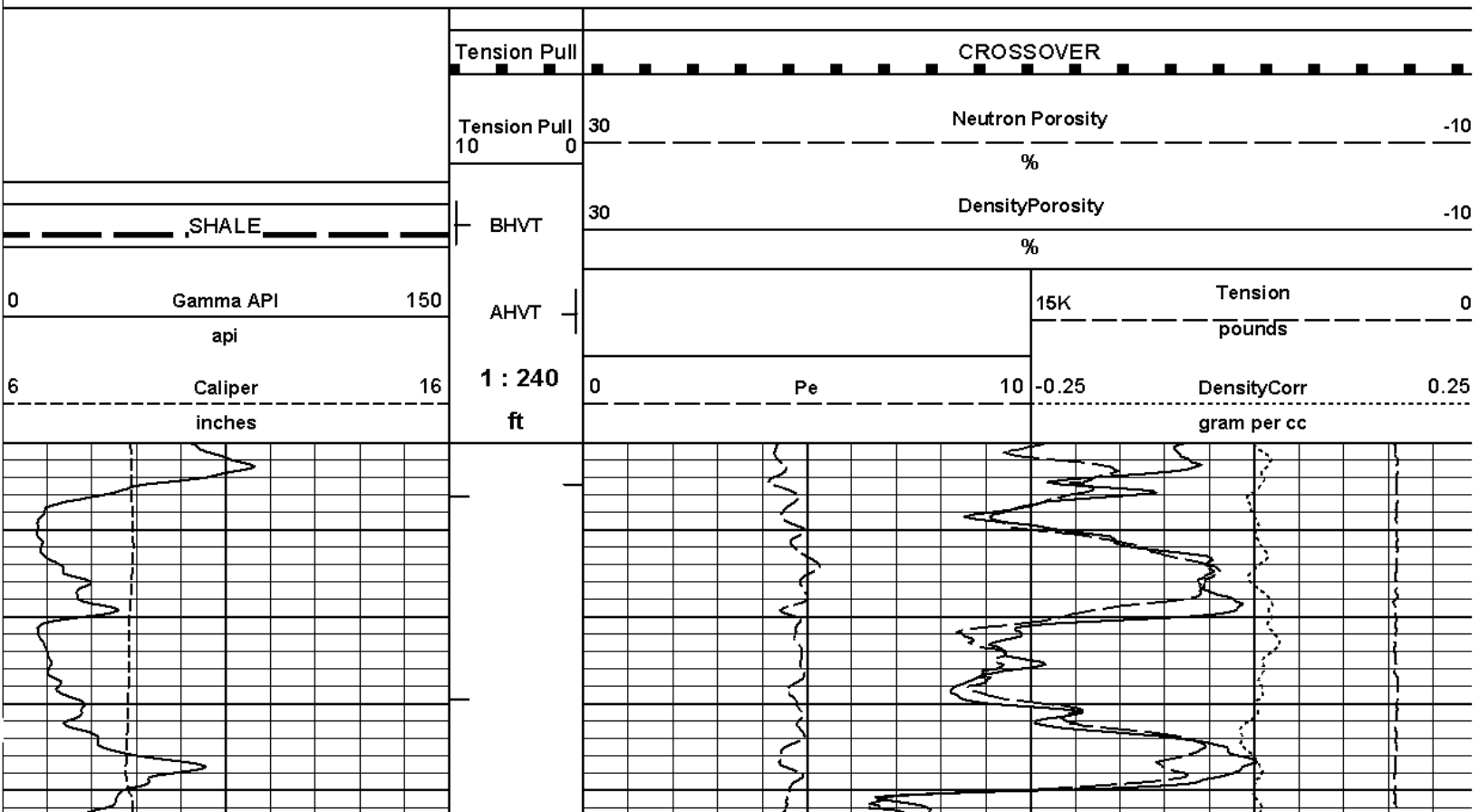
TODAY'S CREW: A. VAQUERA, K. KELLY

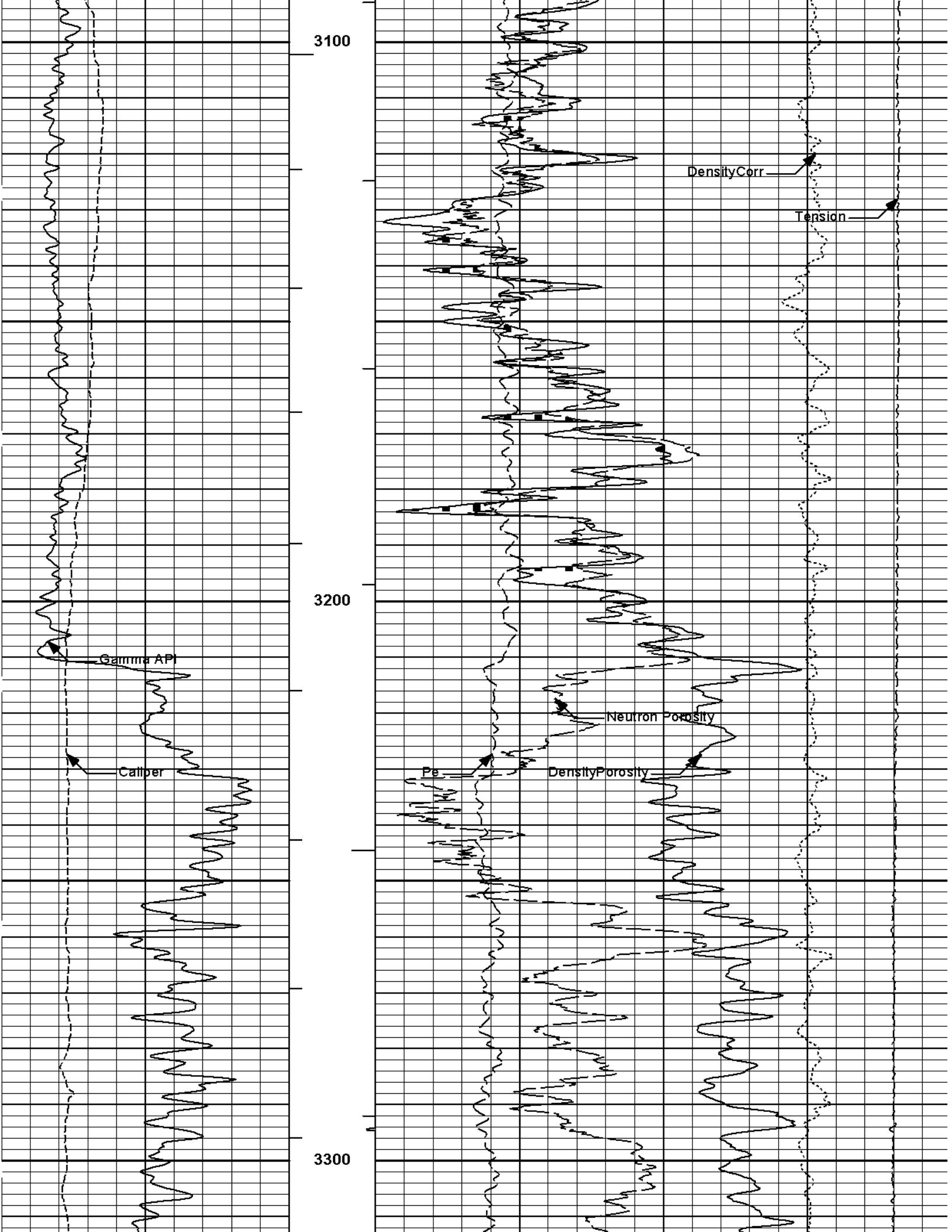
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES, LIBERAL, KS 620-624-8123

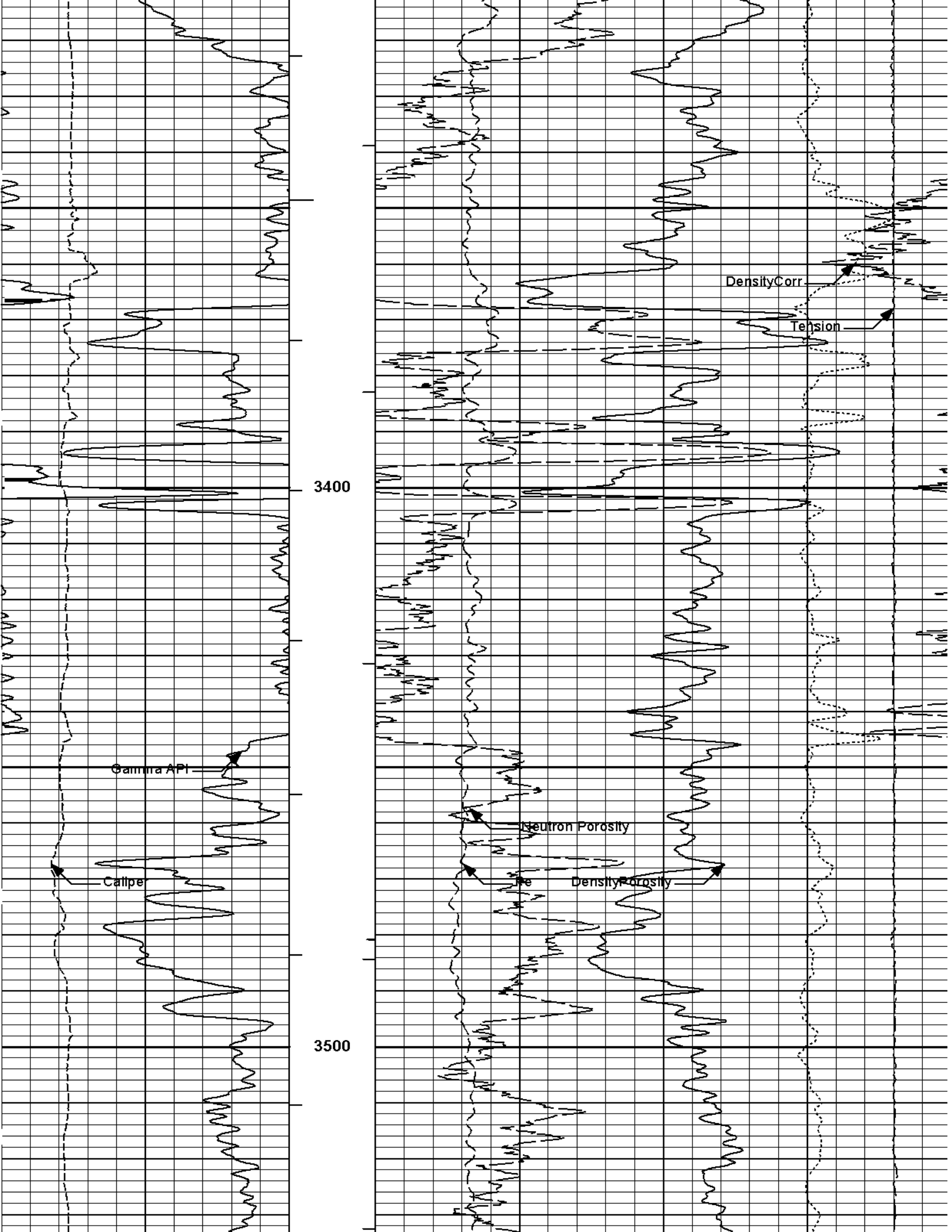
HALLIBURTON

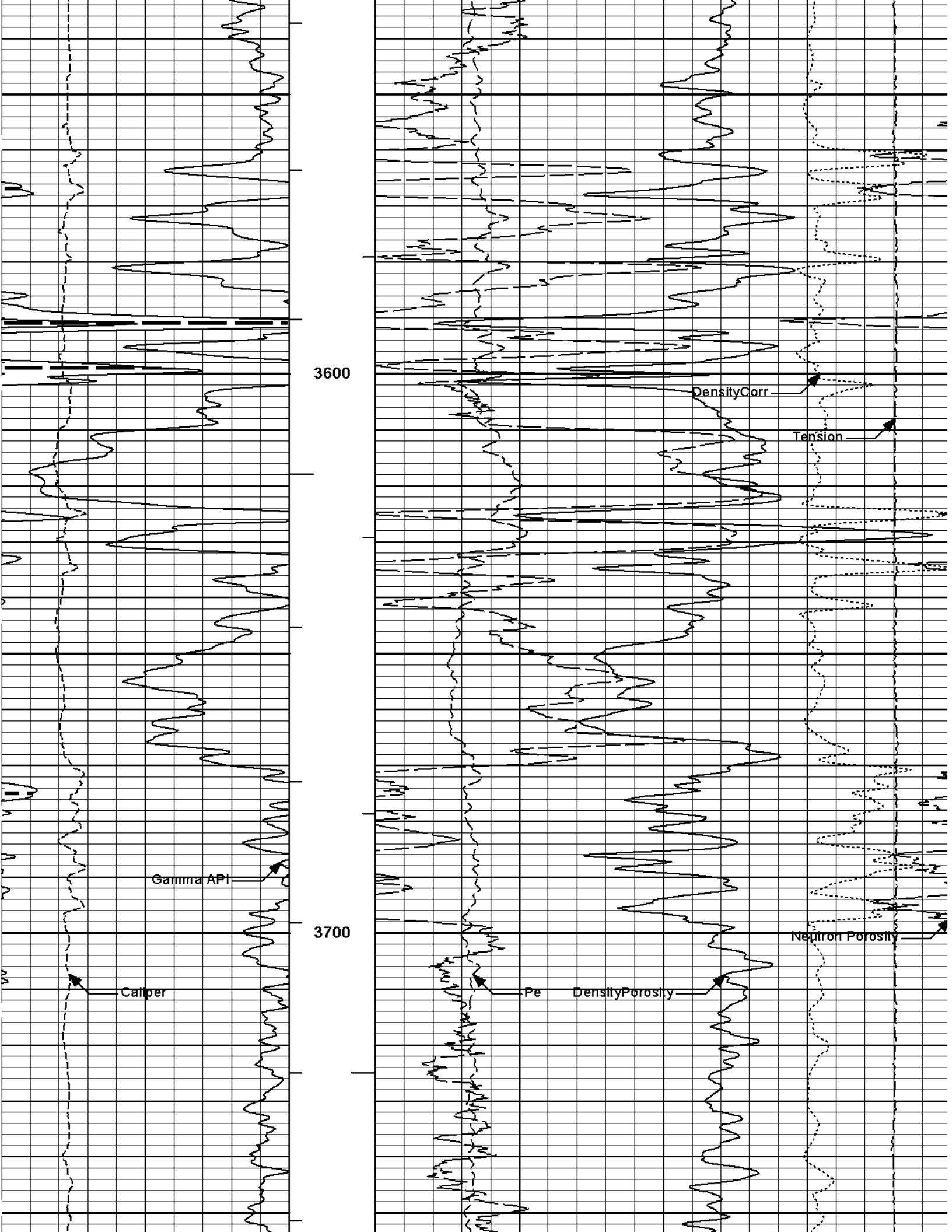
Plot Time: 18-Apr-11 16:26:51
Plot Range: 3050 ft to 4694.67 ft
Data: TALBOTT_6_9\Well Based\DAQ-0001-003\
Plot File: \\PORO\Poro_IQ_5_MAIN_LIB

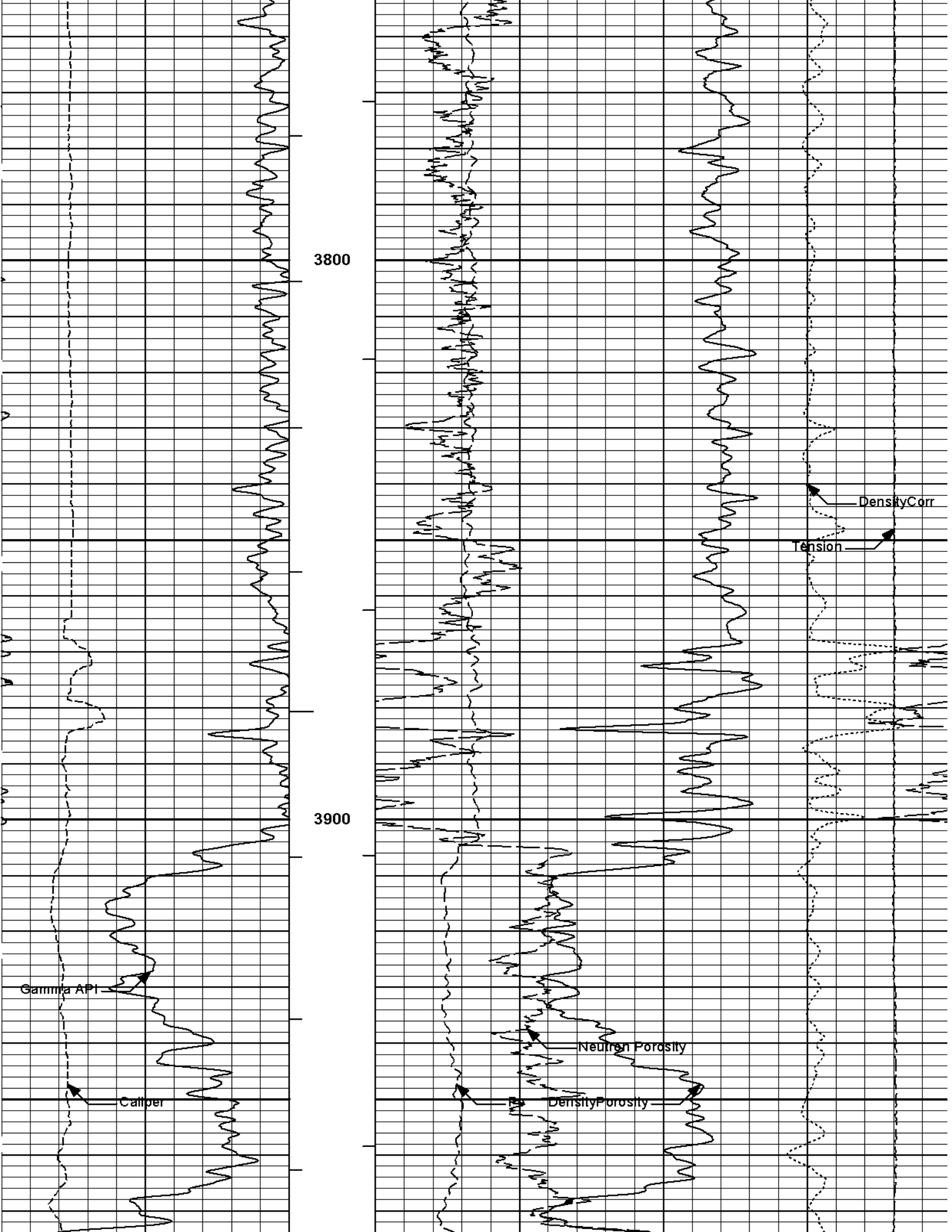
5 INCH MAIN LOG

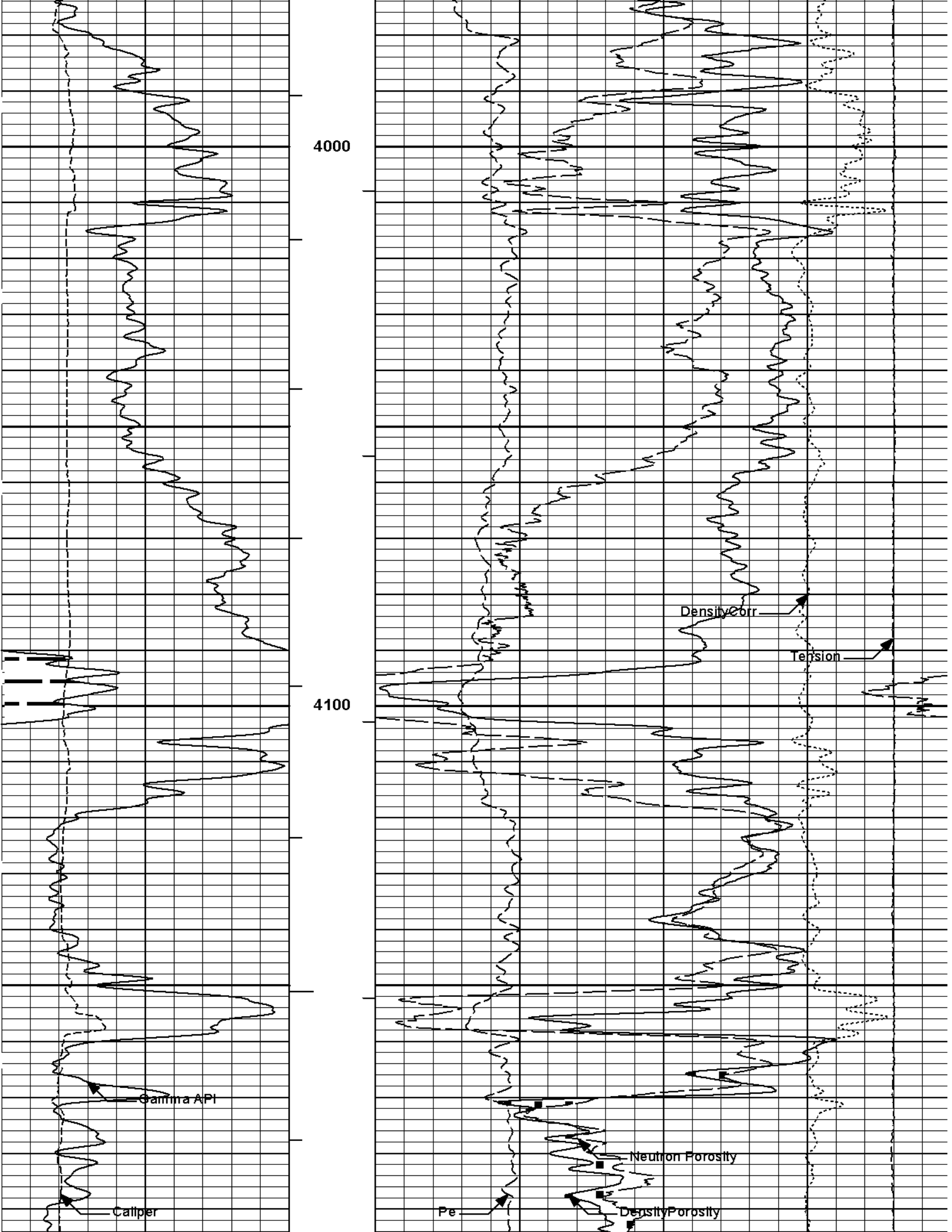


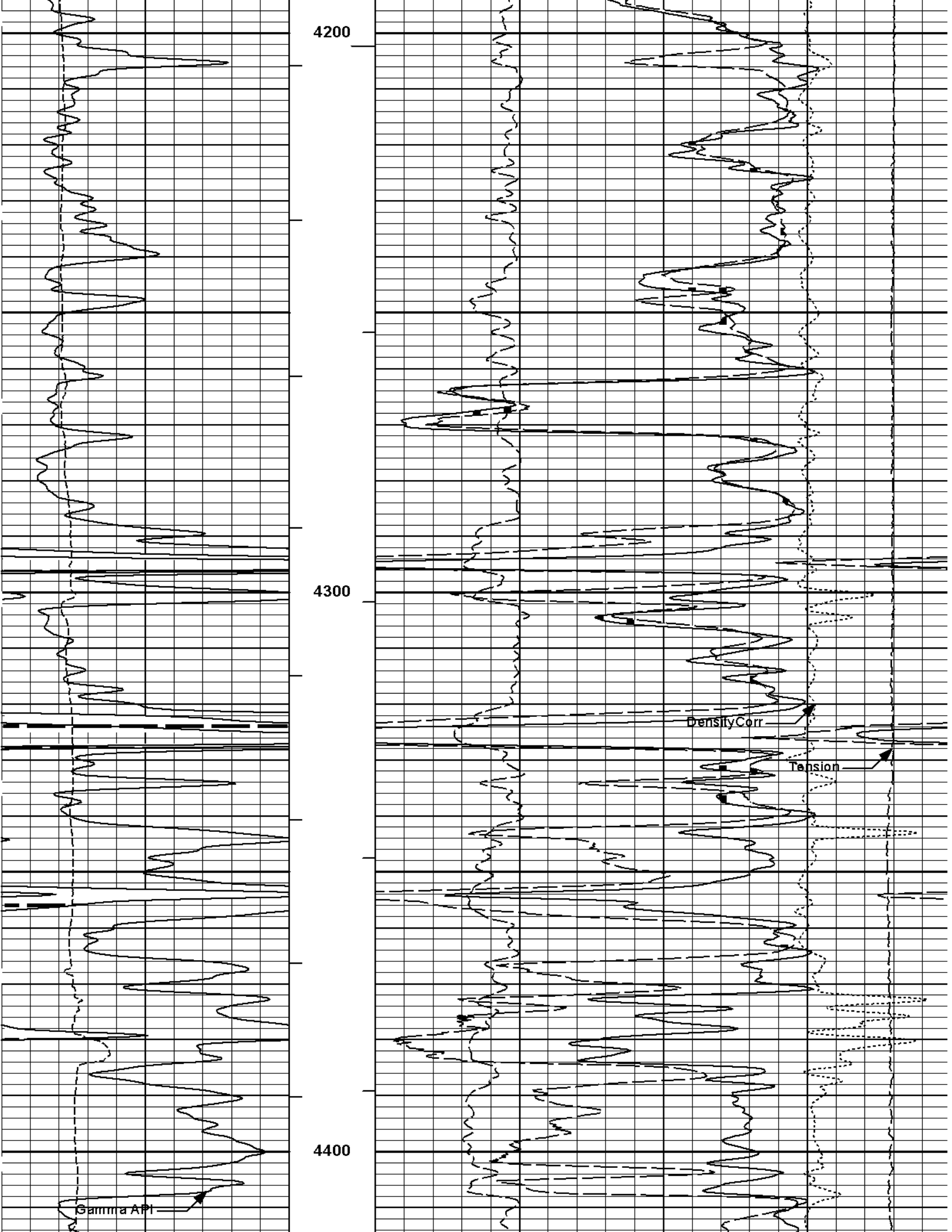

3100
3200
3300
DensityCorr
Tension
Gamma API
Caliper
Neutron Porosity
Pe
DensityPorosity

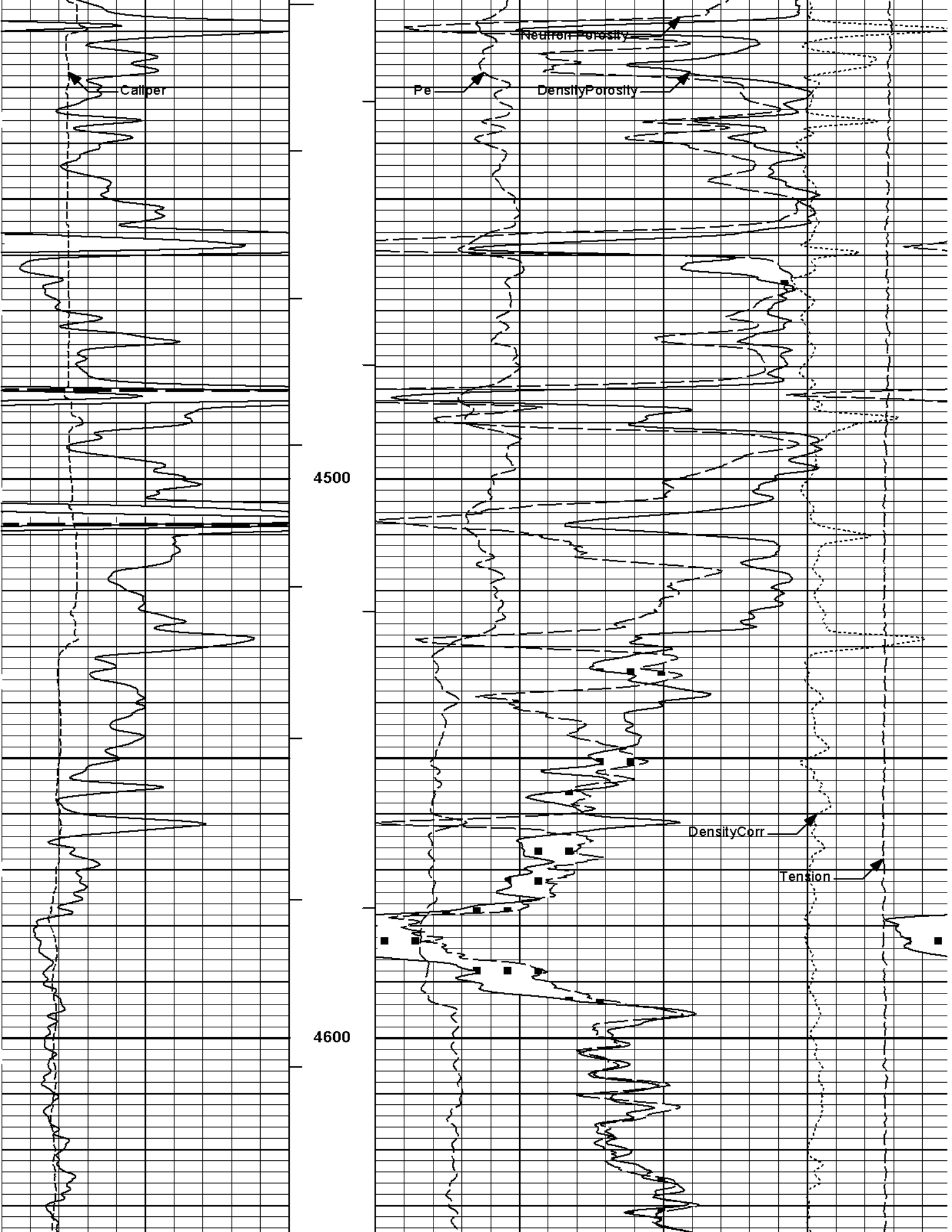

DensityCorr
Tension
3400
Gamma API
Caliper
Neutron Porosity
Pe
DensityPorosity
3500

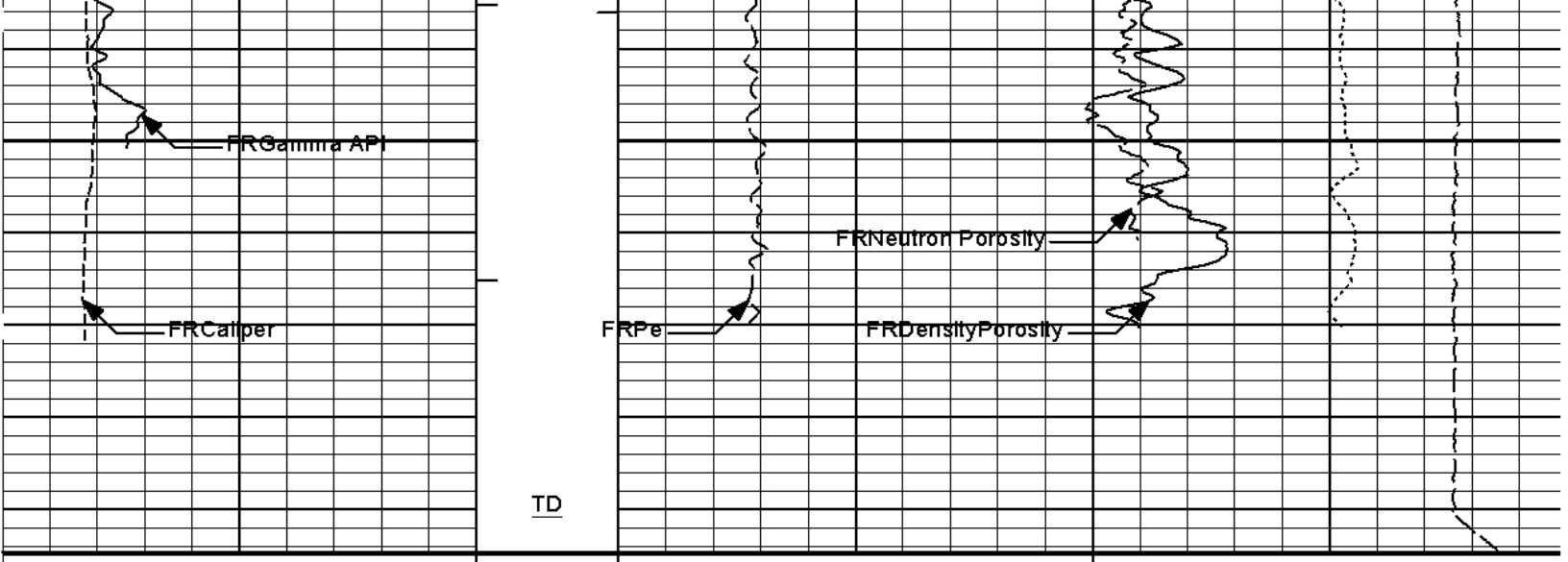

3600
3700
DensityCorr
Tension
Gamma API
Caliper
Pe
DensityPorosity
Neutron Porosity


3800
3900
DensityCorr
Tension
Gamma API
Caliper
Neutron Porosity
Rx
DensityPorosity


4000
4100
Density Corr
Tension
Gamma API
Caliper
Neutron Porosity
Pe
Density Porosity


4200
4300
4400
DensityCorr
Tension
Gamma API


Caliper
Pe
NeutronPorosity
DensityPorosity
4500
DensityCorr
Tension
4600



6 Caliper 16
inches
0 Gamma API 150
api
SHALE
1 : 240
ft
AHVT
BHVT
Tension Pull
10 0
Tension Pull
0 Pe 10
30 DensityPorosity -10
%
30 Neutron Porosity -10
%
CROSSOVER
-0.25 DensityCorr 0.25
gram per cc
15K Tension 0
pounds

HALLIBURTON

Plot Time: 18-Apr-11 16:26:58
Plot Range: 3050 ft to 4694.67 ft
Data: TALBOTT_6_9\Well Based\DAQ-0001-003\
Plot File: \\PORO\Poro_IQ_5_MAIN_LIB

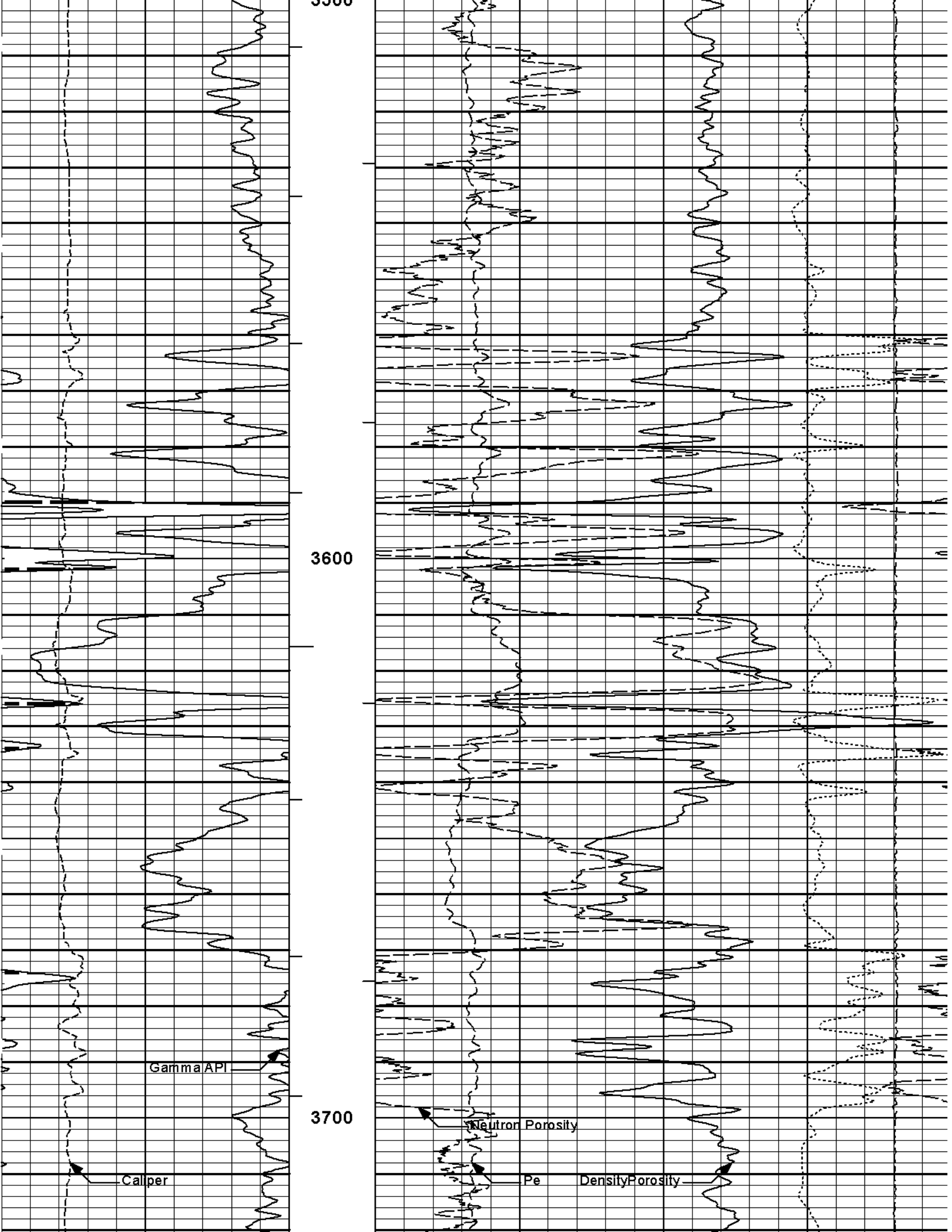
5 INCH MAIN LOG

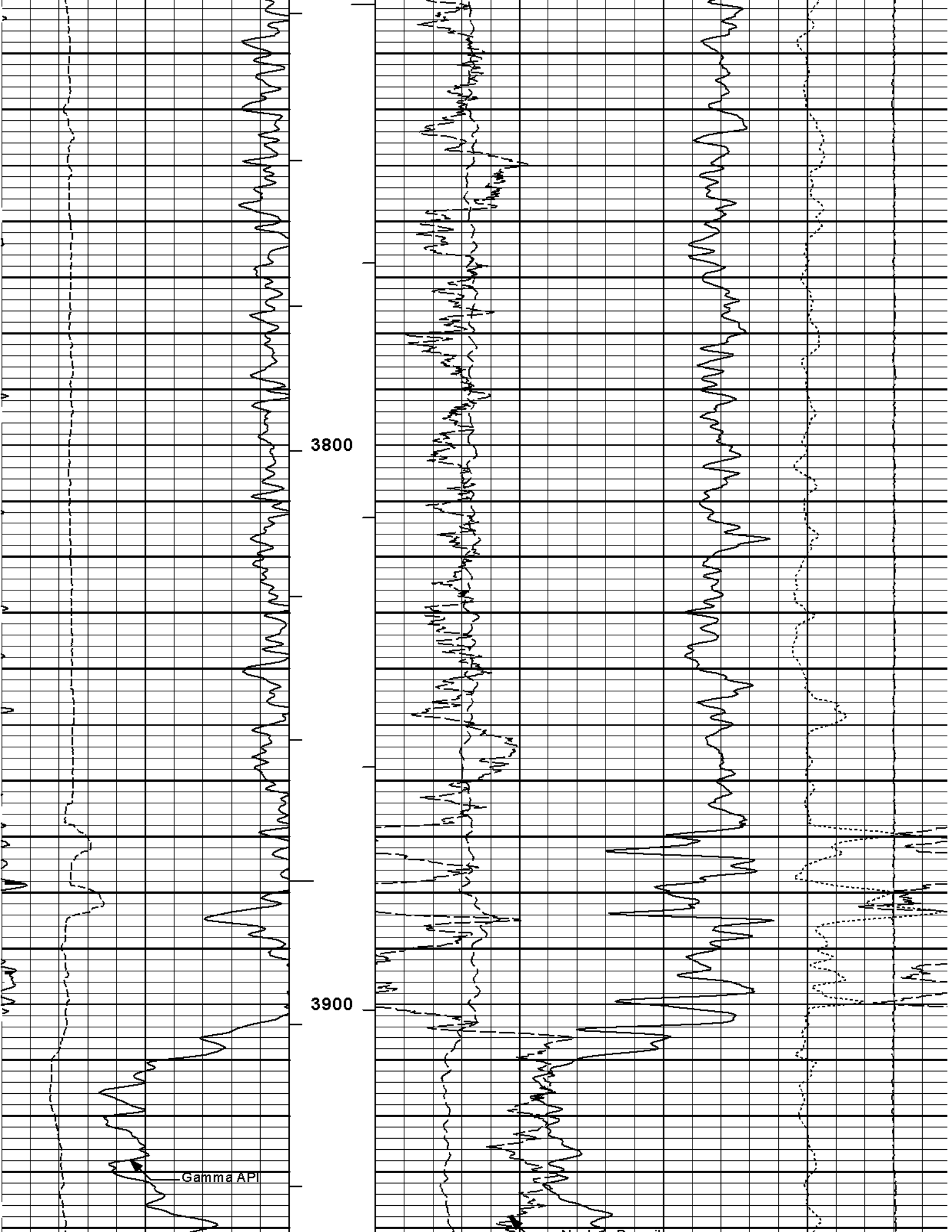
HALLIBURTON

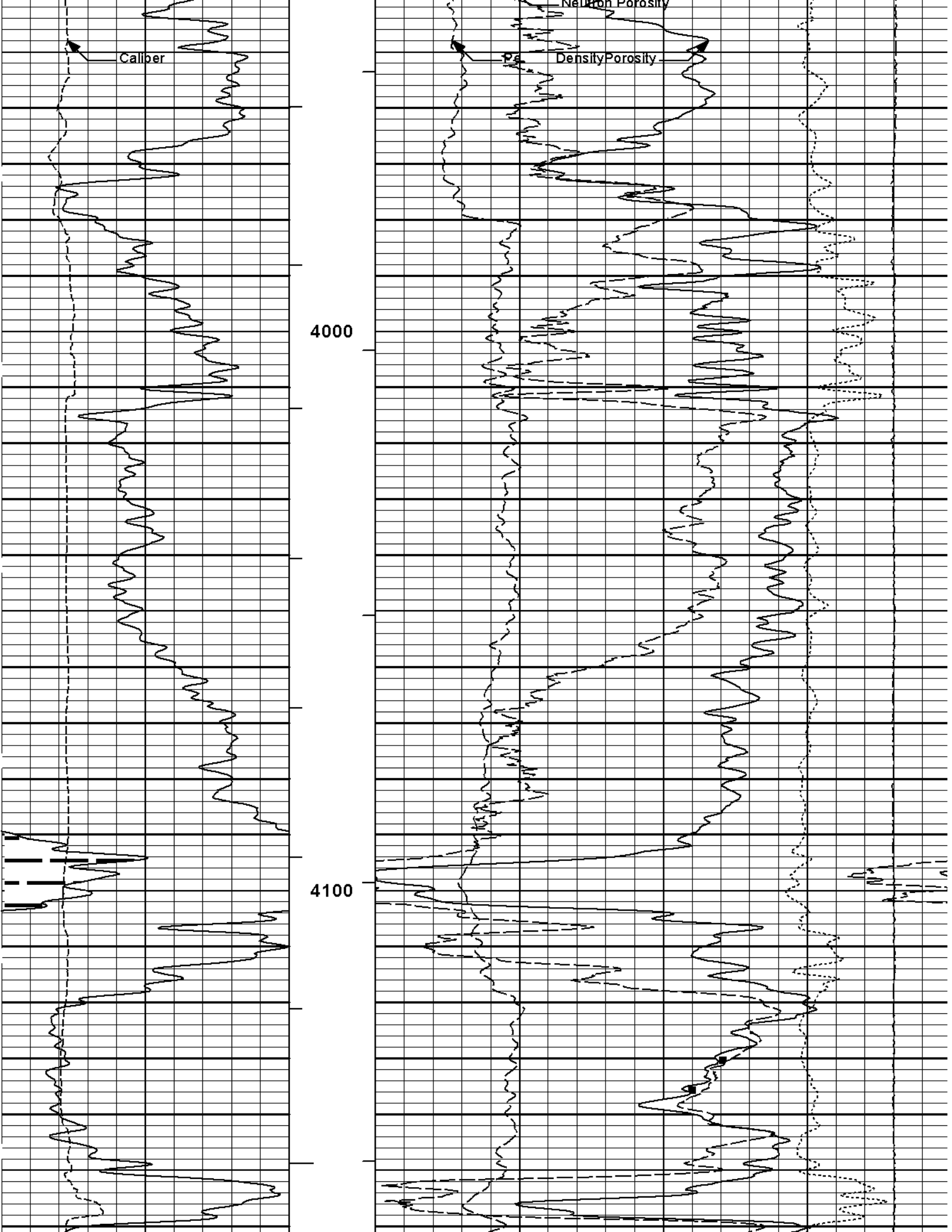
Plot Time: 18-Apr-11 16:26:58
Plot Range: 3500 ft to 4694.33 ft
Data: TALBOTT_6_9\Well Based\DAQ-0001-002\
Plot File: \\PORO\Poro_IQ_5_REP_LIB

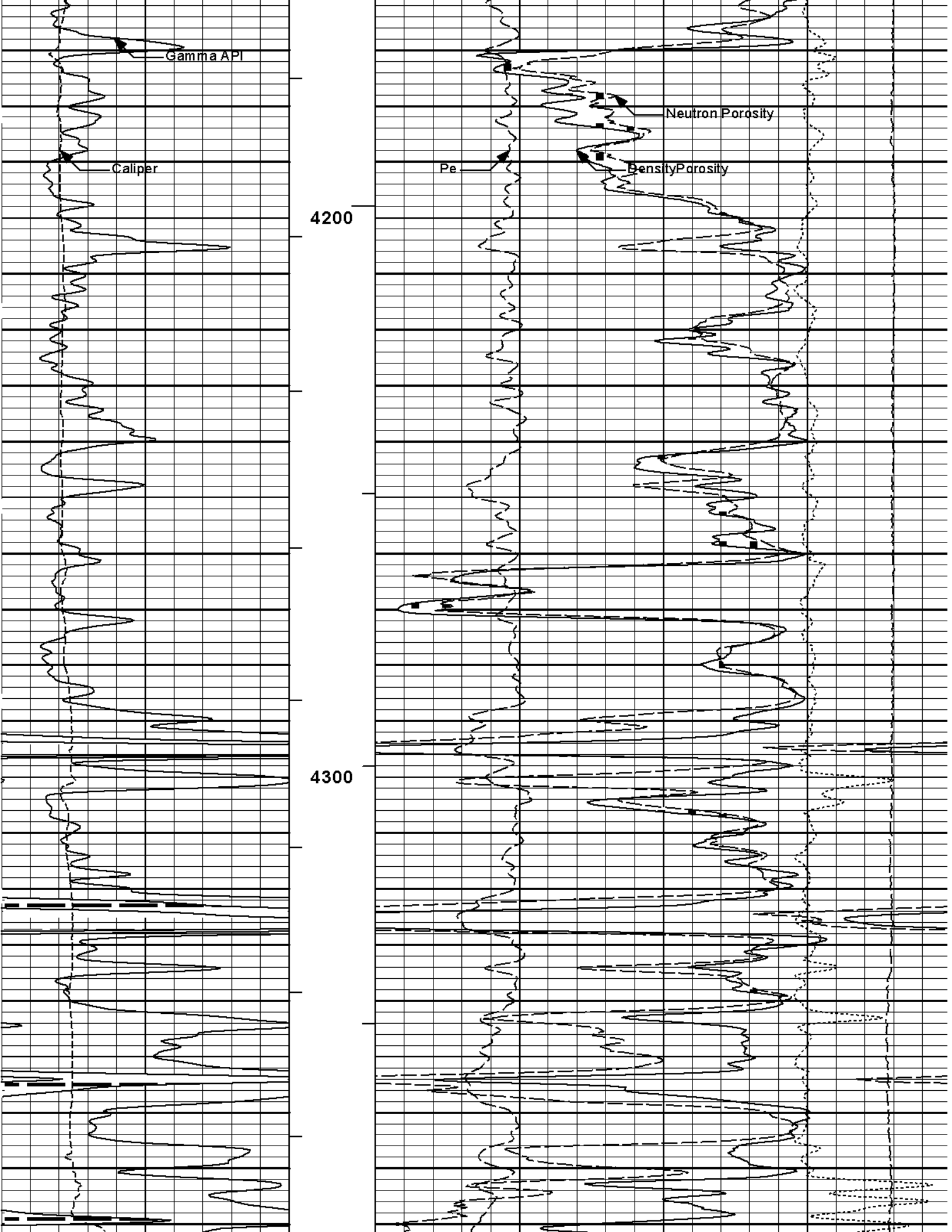
REPEAT SECTION

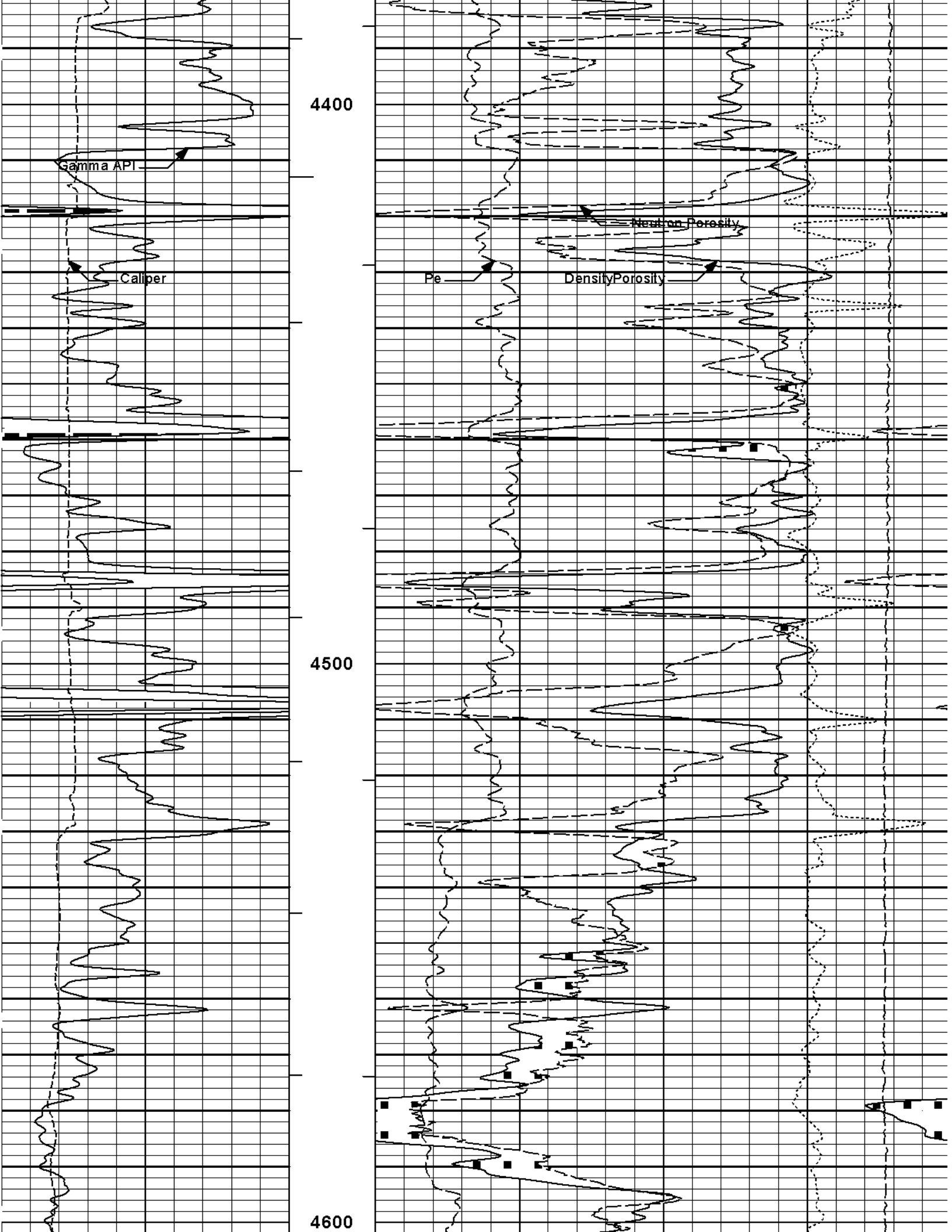
CROSSOVER
30 Neutron Porosity -10
%
30 DensityPorosity -10
%
SHALE
BHVT
0 Gamma API 150
api
AHVT
15K Tension 0
pounds
6 Caliper 16
inches
1 : 240
ft
0 Pe 10
-0.25 DensityCorr 0.25
gram per cc

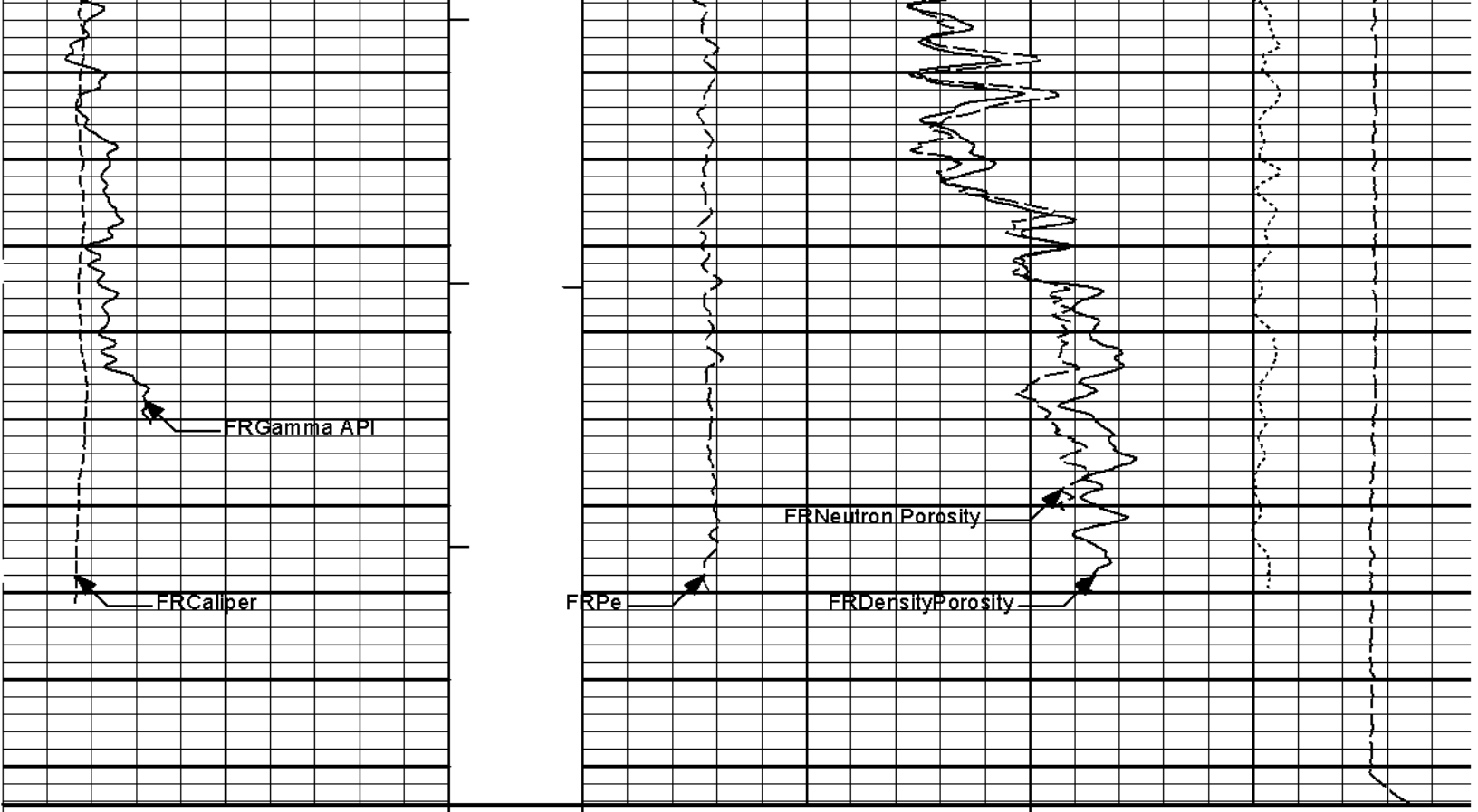

3500
3600
3700
Gamma API
Caliper
Neutron Porosity
Pe
DensityPorosity


3800
3900
Gamma API


Caliber
Neutron Porosity
Pe
DensityPorosity
4000
4100


Gamma API
Caliper
Neutron Porosity
Pe
DensityPorosity
4200
4300


4400
4500
4600
Gamma API
Caliper
Pe
Neutron Porosity
DensityPorosity



6 Caliper 16	1 : 240	0 Pe 10
inches	ft	
0 Gamma API 150	AHVT	-0.25 DensityCorr 0.25
api		gram per cc
		15K Tension 0
		pounds
SHALE	BHVT	30 DensityPorosity -10
		%
		30 Neutron Porosity -10
		%
		CROSSOVER

HALLIBURTON

Plot Time: 18-Apr-11 16:27:02
Plot Range: 3500 ft to 4694.33 ft
Data: TALBOTT_6_9\Well Based\DAQ-0001-002\
Plot File: \\PORO\Poro_IQ_5_REP_LIB

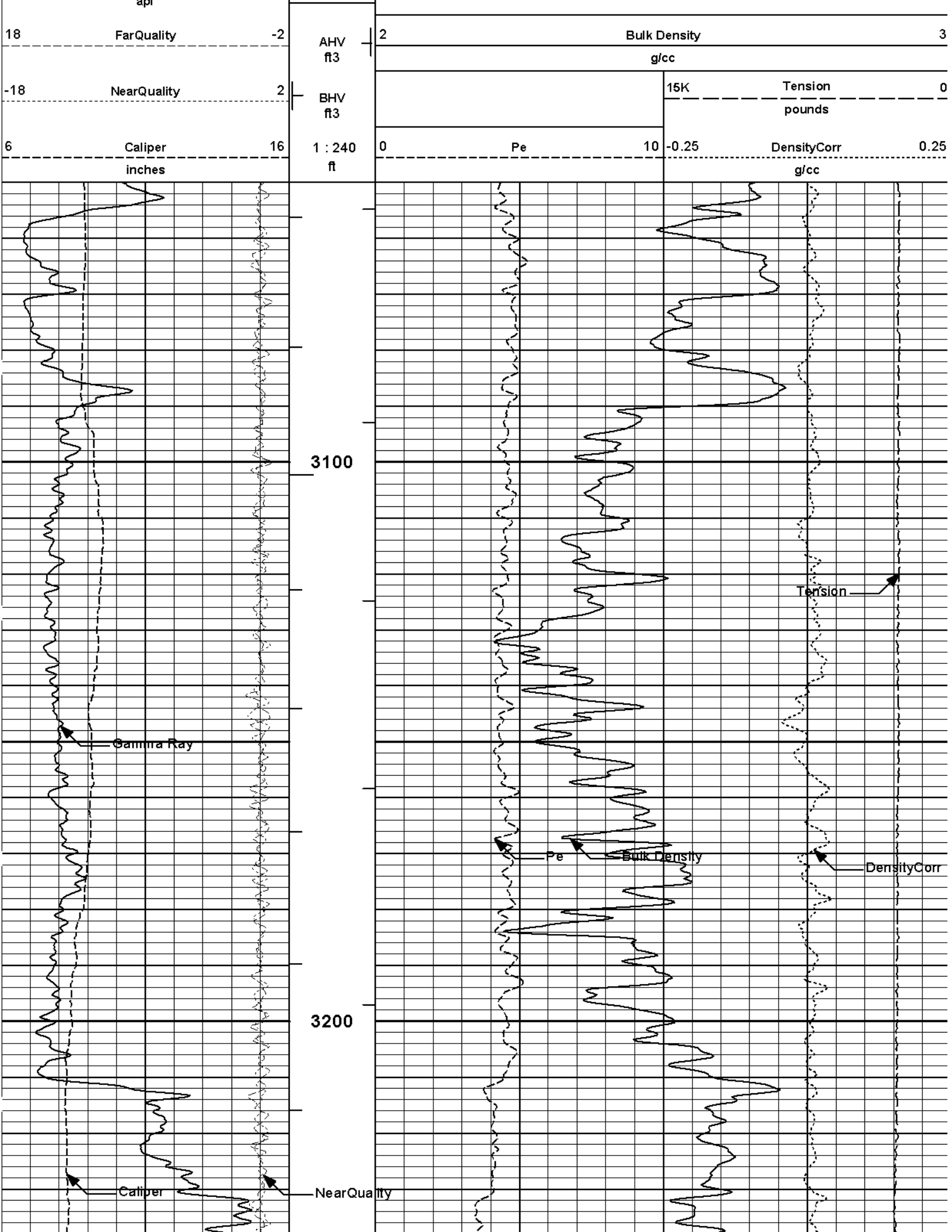
REPEAT SECTION

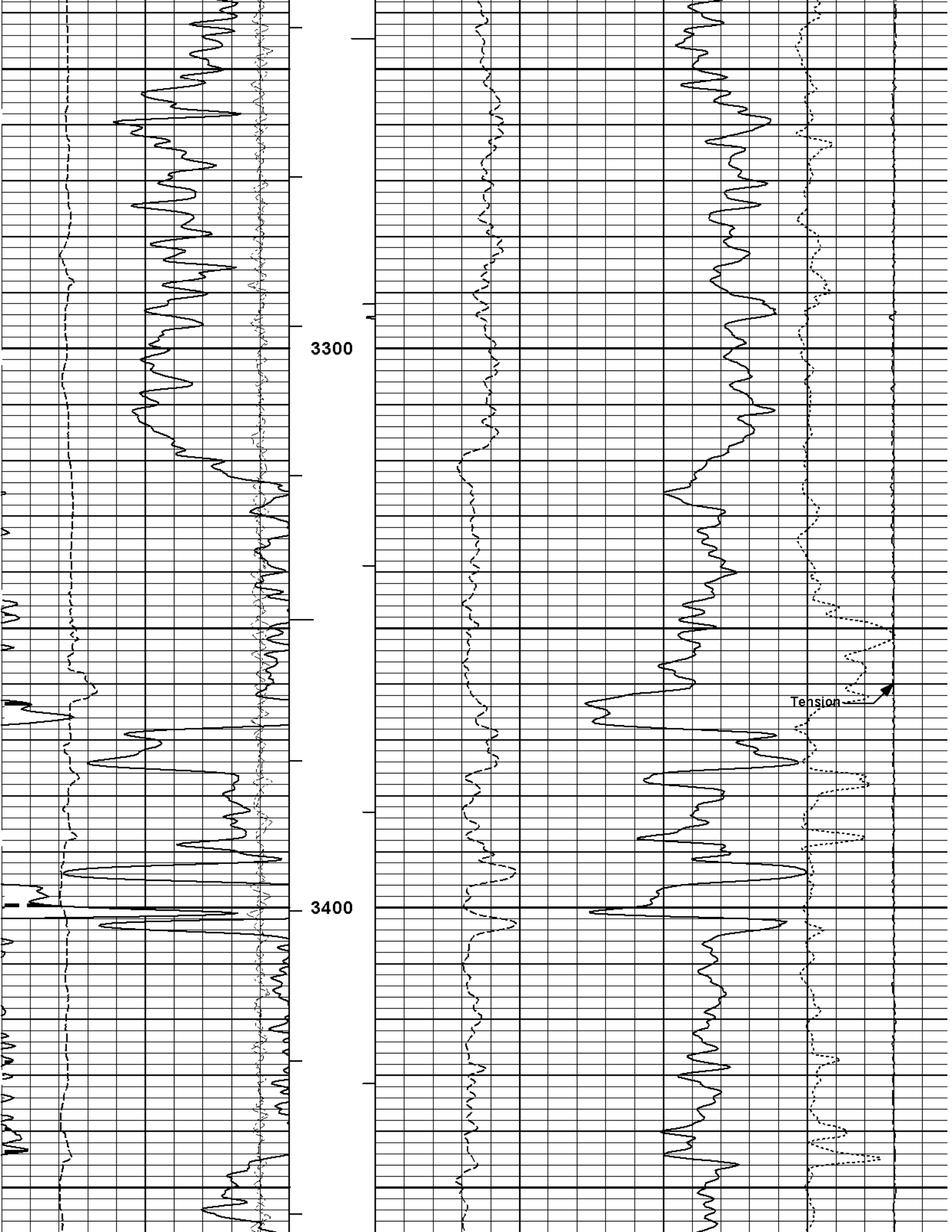
HALLIBURTON

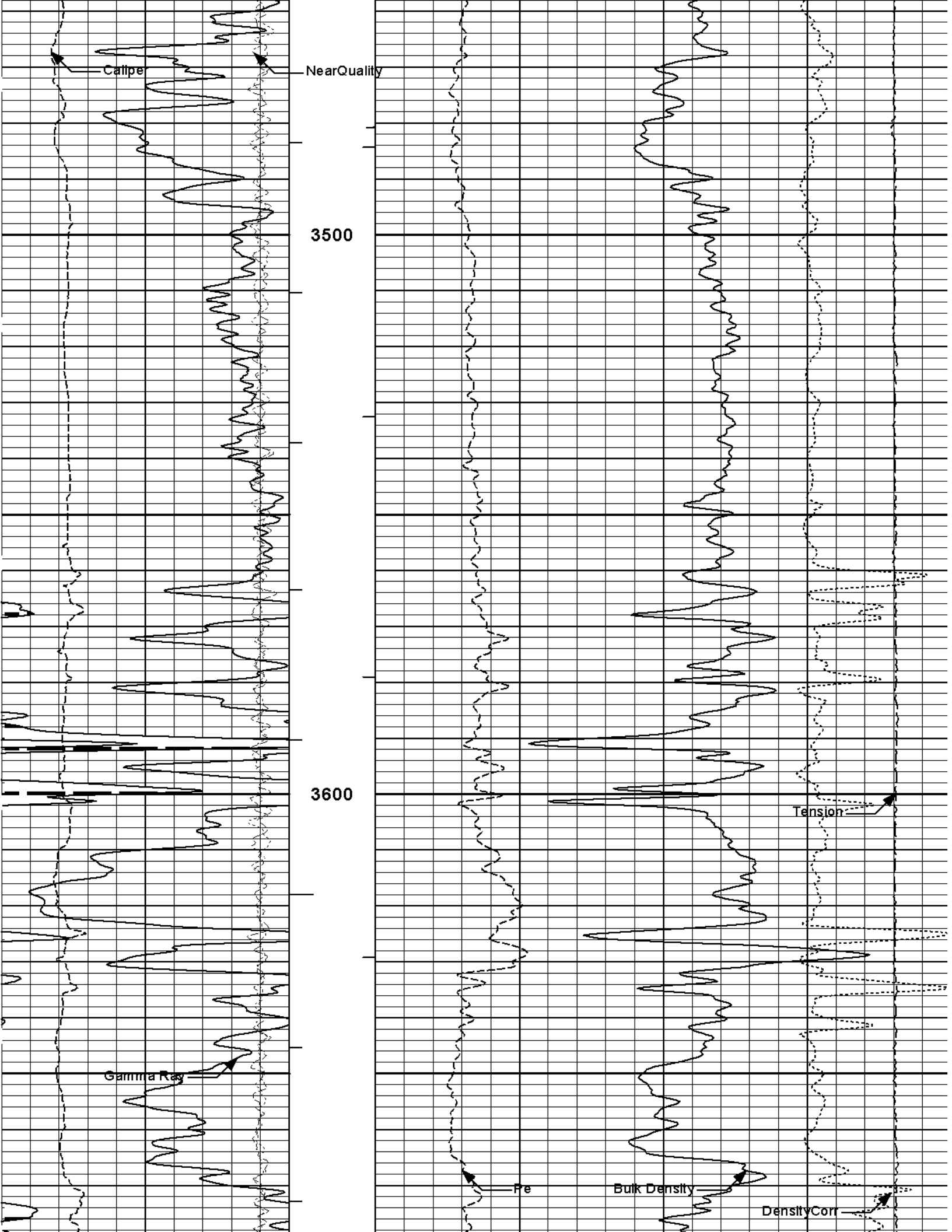
Plot Time: 18-Apr-11 16:27:03
Plot Range: 3050 ft to 4694.67 ft
Data: TALBOTT_6_9\Well Based\DAQ-0001-003\
Plot File: \\-LOCAL-\TALBOTT_6_9\Well Based\PORO\BULKD_5_MAIN_LIB

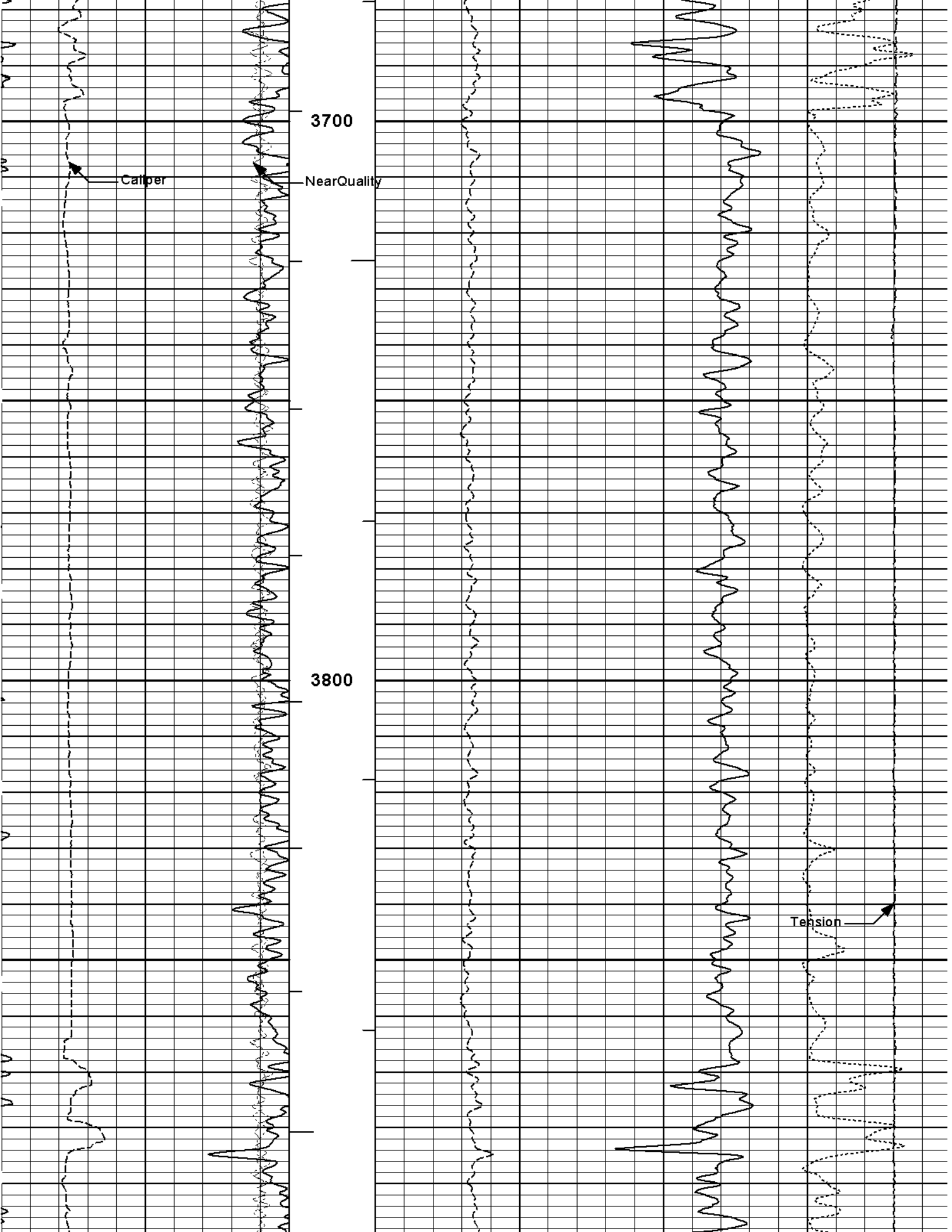
5 INCH MAIN LOG

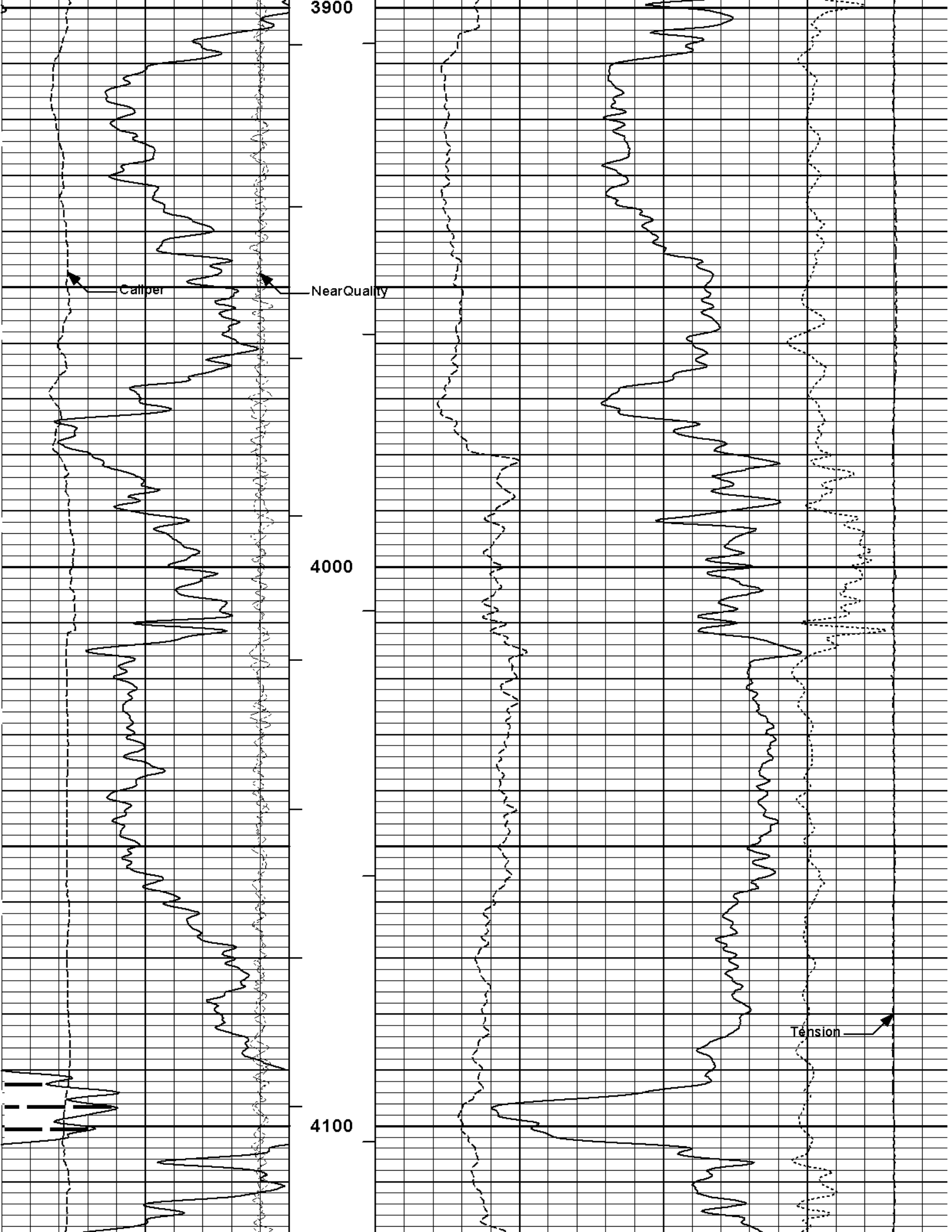
SHALE	Tension Pull
0 Gamma Ray 150	Tension Pull
api	10 0

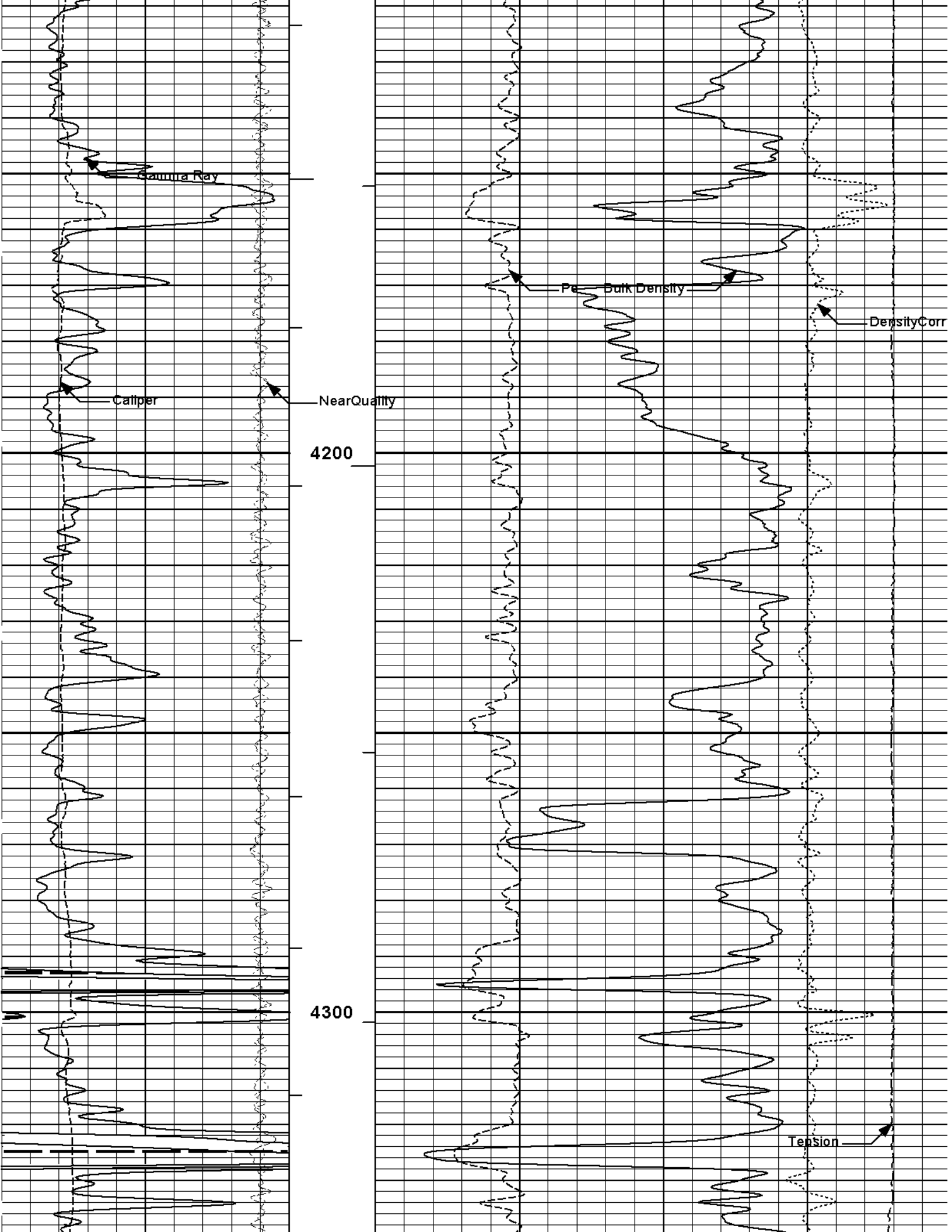

api
18
FarQuality
-2
-18
NearQuality
2
6
Caliper
16
inches
AHV
ft3
BHV
ft3
1 : 240
ft
2
Bulk Density
3
g/cc
15K
Tension
0
pounds
0
Pe
10
-0.25
DensityCorr
0.25
g/cc
3100
3200
Gamma Ray
Caliper
NearQuality
Pe
Bulk Density
Tension
DensityCorr

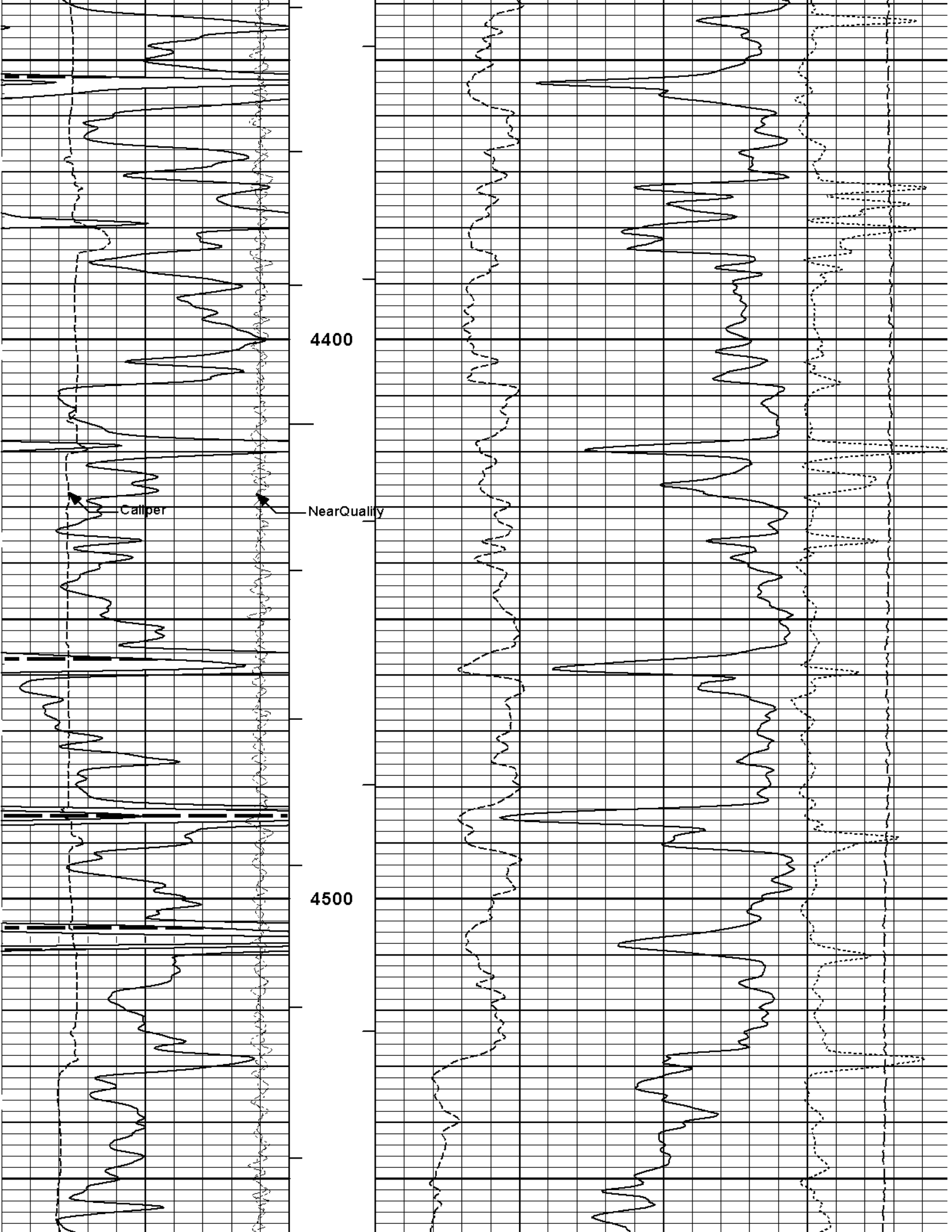

3300
3400
Tension

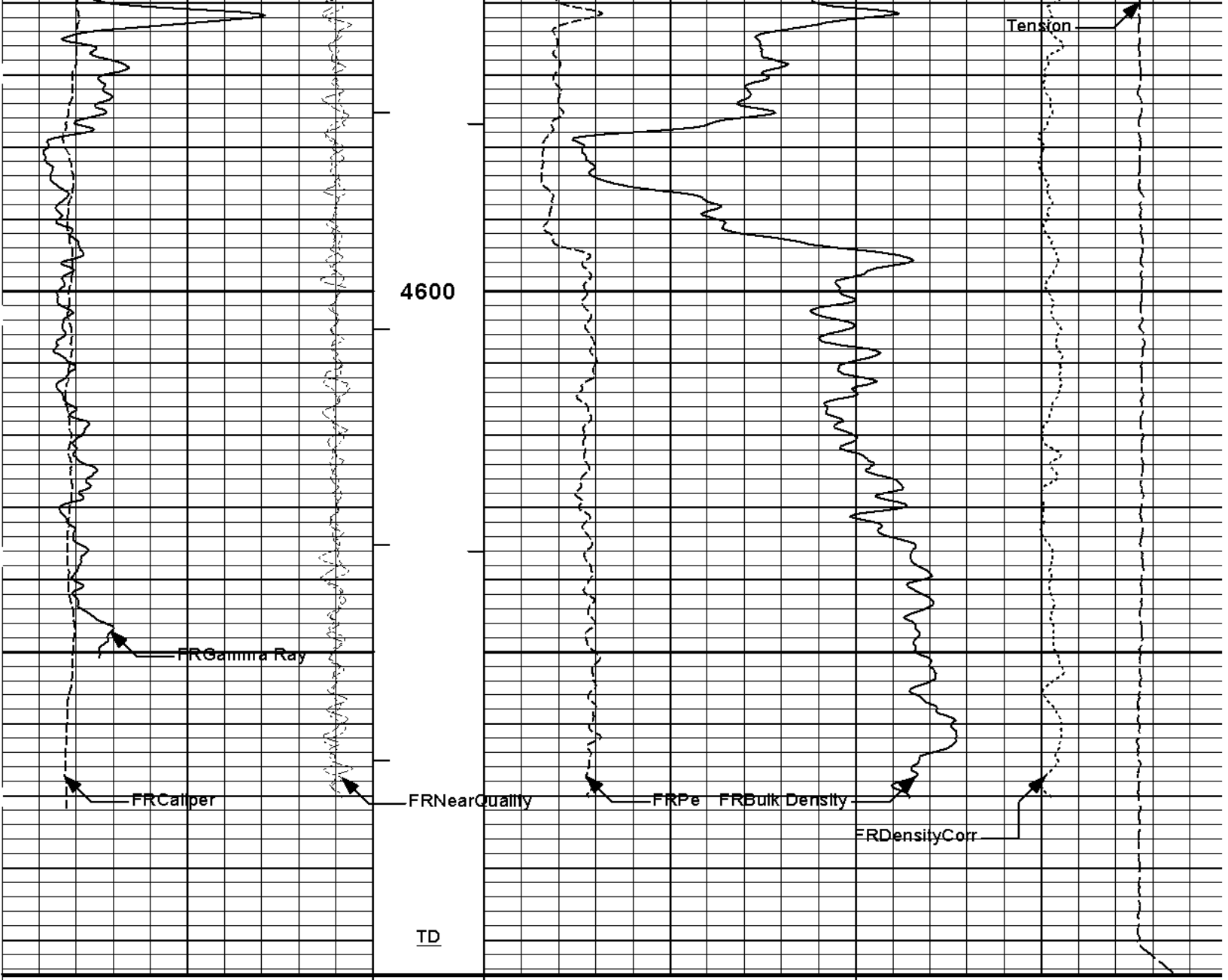

Caliper
NearQuality
3500
3600
Gamma Ray
Pe
Bulk Density
Tension
DensityCorr


3700
Caliper
NearQuality
3800
Tension


3900
4000
4100
Caliper
NearQuality
Tension


Gamma Ray
Caliper
NearQuality
Pe
Bulk Density
DensityCorr
Tension
4200
4300


4400
Caliper
NearQuality
4500



6 Caliper 16	1 : 240	0 Pe 10	-0.25 DensityCorr 0.25		
inches	ft		g/cc		
-18 NearQuality 2	BHV ft3		15K Tension 0		
			pounds		
18 FarQuality -2	AHV ft3	2 Bulk Density 3			
		g/cc			
0 Gamma Ray 150	Tension Pull 10 0				
api					
SHALE	Tension Pull				

HALLIBURTON

Plot Time: 18-Apr-11 16:27:06
Plot Range: 3050 ft to 4694.67 ft
Data: TALBOTT_6_9\Well Based\DAQ-0001-003\
Plot File: \\-LOCAL-\TALBOTT_6_9\Well Based\PORO\BULKD_5_MAIN_LIB

5 INCH MAIN LOG

HALLIBURTON

Plot Time: 18-Apr-11 16:27:07

Plot Range: 3500 ft to 4694.33 ft
Data: TALBOTT_6_9\Well Based\DAQ-0001-002\
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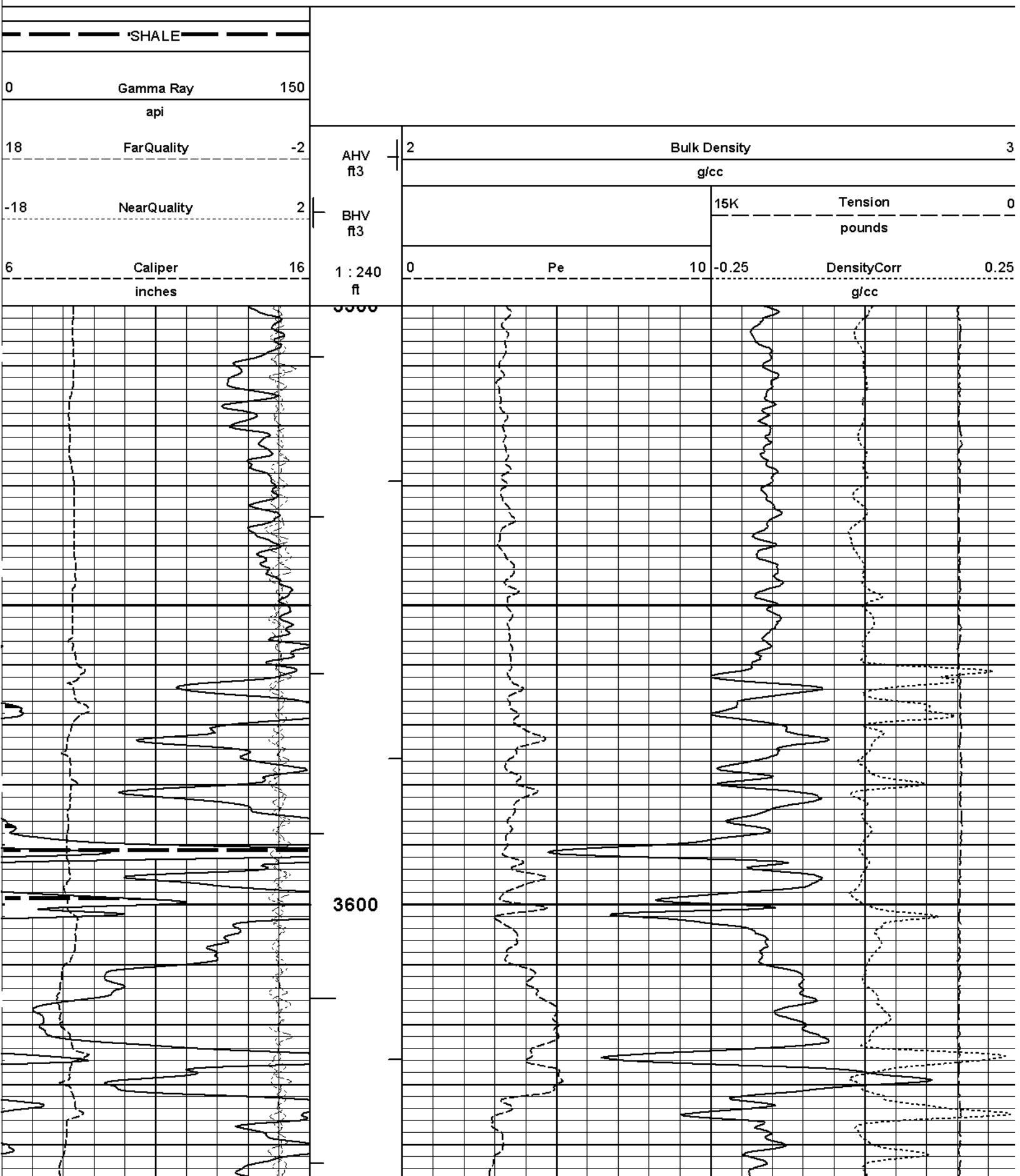
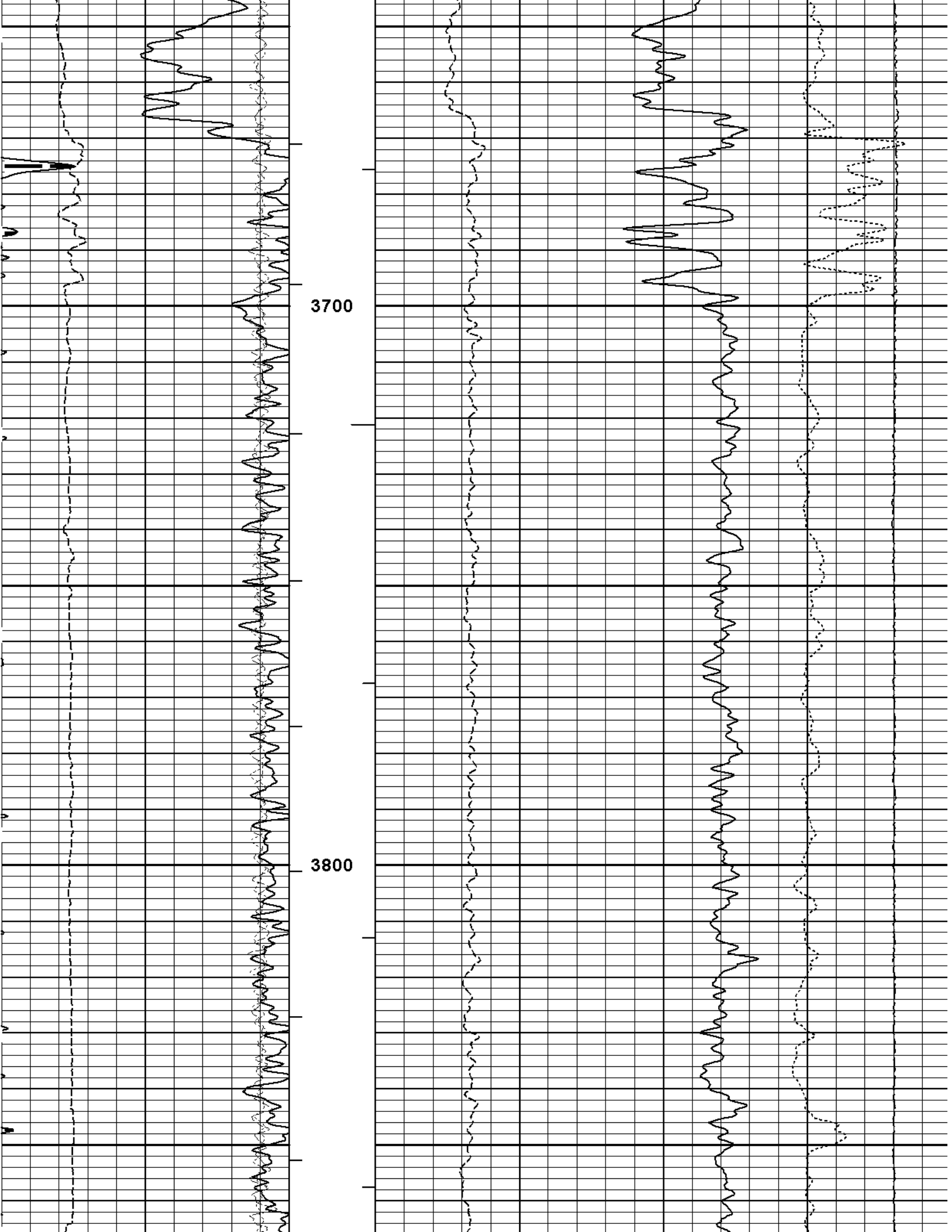
REPEAT SECTION

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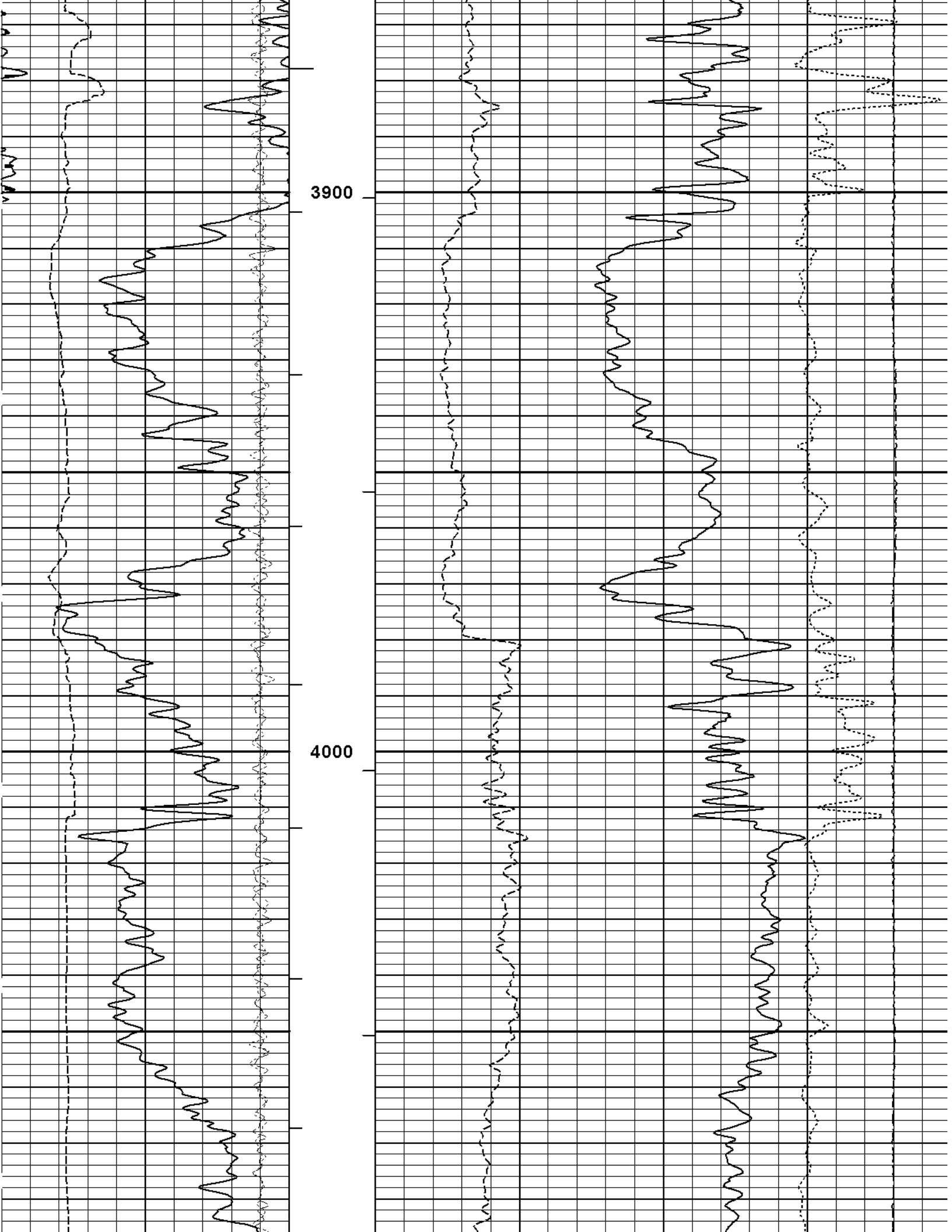
3800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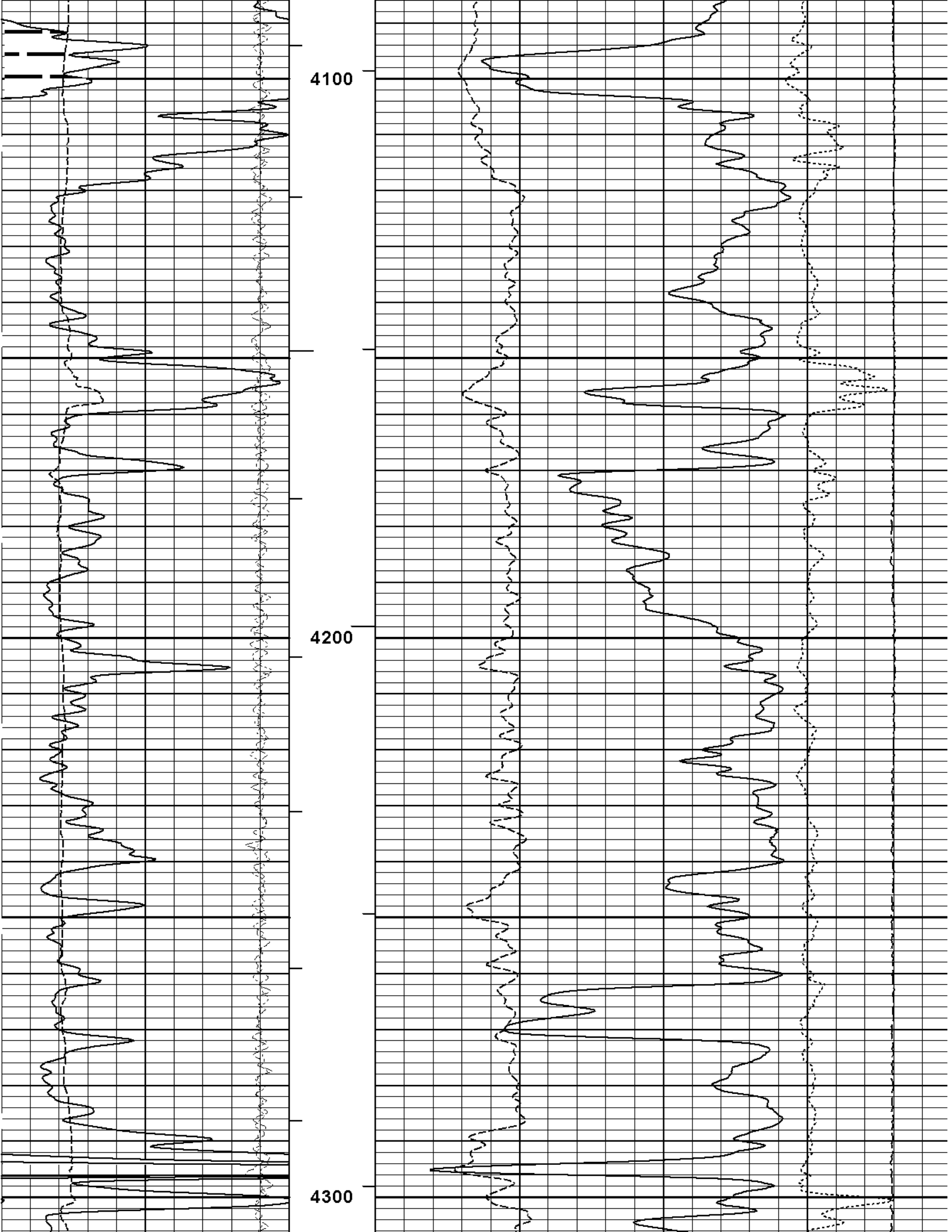
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4200
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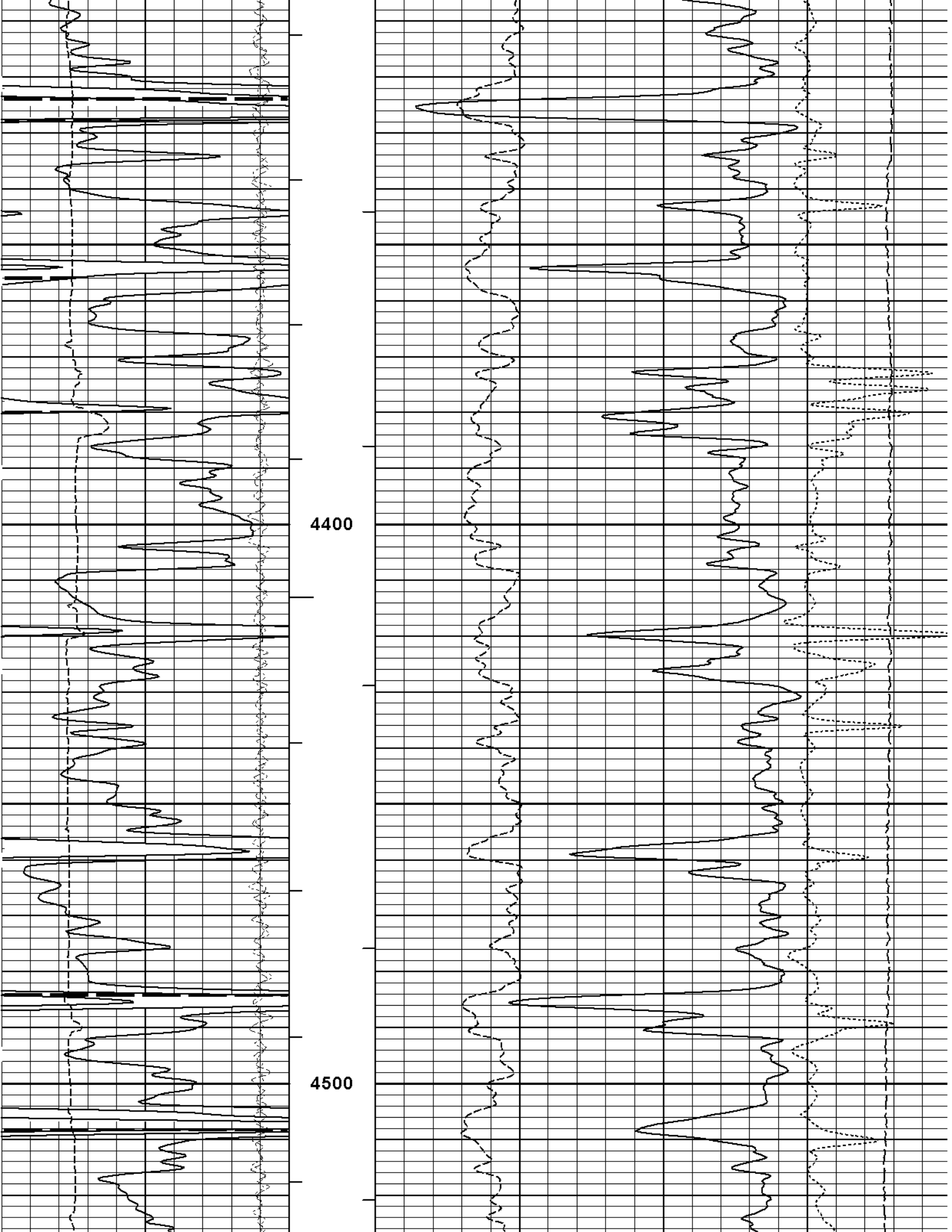
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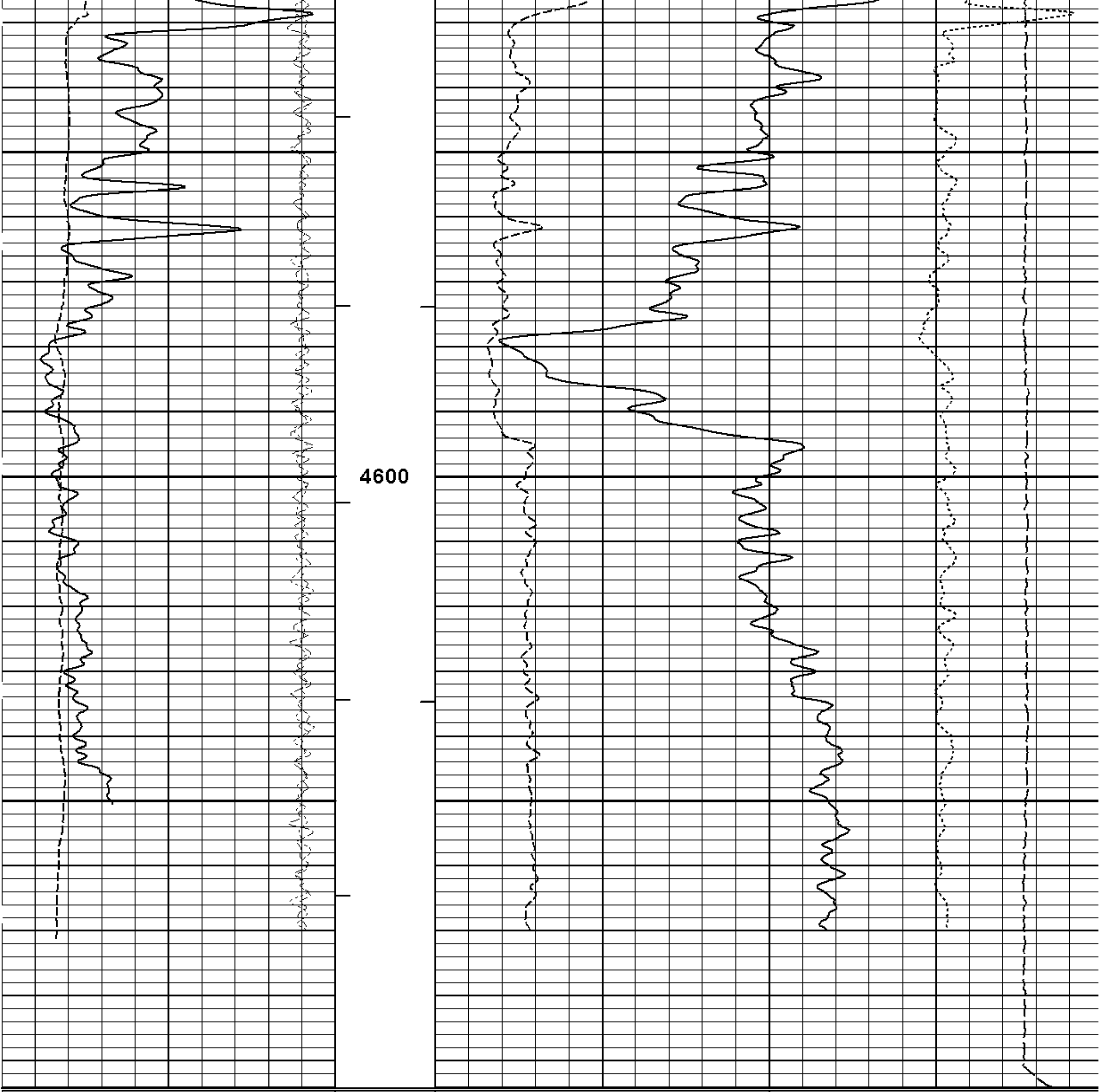
4500



6	Caliper	16
	inches	
-18	NearQuality	2
18	FarQuality	-2
0	Gamma Ray	150
	api	
	SHALE	

1 : 240
ft

BHV
ft3

AHV
ft3

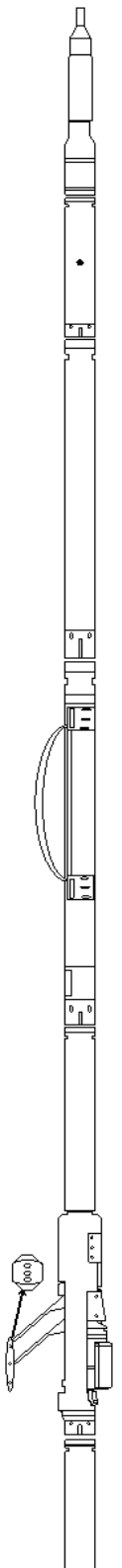
0	Pe	10
-0.25	DensityCorr	0.25
	g/cc	
15K	Tension	0
	pounds	
2	Bulk Density	3
	g/cc	

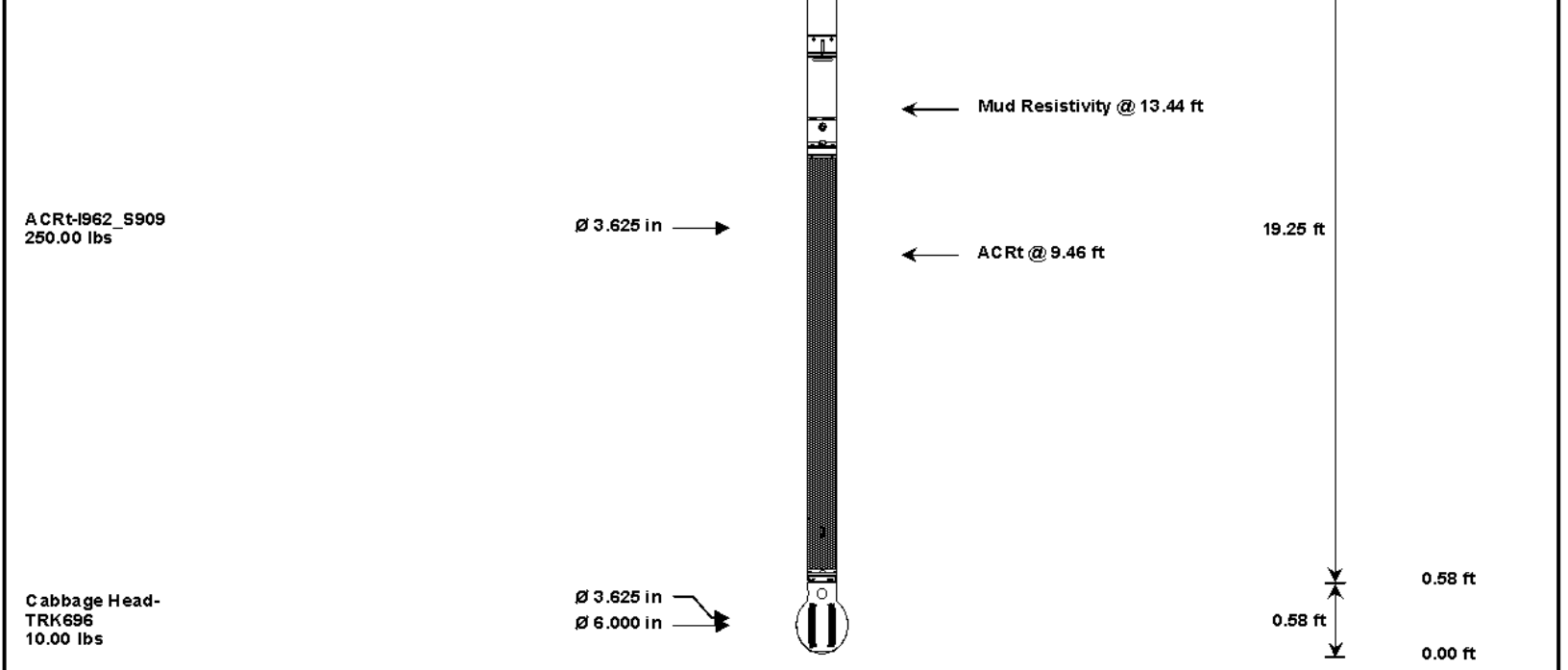
REPEAT SECTION

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Sensors @ Delays	Length	Accumulated Length
					56.57 ft
CH_HOS-CH_696 37.50 lbs		Ø 2.750 in	Temperature @ 55.54 ft	3.03 ft	
		Ø 2.750 in			53.54 ft
XOHD-TRK696 20.00 lbs		Ø 3.625 in		0.95 ft	
					52.59 ft
SP Sub-PROT01 60.00 lbs		Ø 3.625 in	SP @ 50.81 ft	3.74 ft	
					48.85 ft
GTET-11039640 165.00 lbs		Ø 3.625 in		8.52 ft	
			GammaRay @ 42.79 ft		
					40.33 ft
DSNT-11055304 174.00 lbs	DSN Decentralizer-10755066 6.60 lbs	Ø 3.625 in* Ø 3.625 in		9.69 ft	
			DSN Far @ 33.39 ft DSN Near @ 32.64 ft		
					30.64 ft
SDLT-I04_P84 360.00 lbs		Ø 4.500 in		10.81 ft	
		Ø 4.750 in	SDL Microlog @ 22.83 ft SDL Caliper @ 22.65 ft SDL @ 22.64 ft		
					19.83 ft





Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)		Accumulated Length (ft)	Max.Log. Speed (fpm)
CH_HOS	Hostile Cable Head with Load Cell	CH_696	37.50	3.03		53.54	300.00
XOHD	Hostile to Dits Cross Over	TRK696	20.00	0.95		52.59	300.00
SP	SP Sub	PROT01	60.00	3.74		48.85	300.00
GTET	Gamma Telemetry Tool	11039640	165.00	8.52		40.33	60.00
DSNT	Dual Spaced Neutron	11055304	174.00	9.69		30.64	60.00
DCNT	DSN Decentralizer	10755066	6.60	5.13	*	33.97	300.00
SDLT	Spectral Density Tool	I04_P84	360.00	10.81		19.83	60.00
ACRt	Array Compensated True Resistivity	I962_S909	250.00	19.25		0.58	300.00
CBHD	Cabbage Head	TRK696	10.00	0.58		0.00	300.00
Total			**1,083.10**	**56.57**			

* Not included in Total Length and Length Accumulation.

Data: TALBOTT_6_9\0001 SP-GTET-DSN-SDL-ACRT-CH\IDLE

Date: 18-Apr-11 08:05:37

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:	**GTET - 11039640**	**Reference Calibration Date:**	**15-Feb-11 06:08:03**
Engineer:	**J. BOSH**	**Calibration Date:**	**11-Mar-11 10:16:52**
Software Version:	**WL INSITE R3.2.0 (Build 7)**	**Calibration Version:**	**1**

Calibrator Source S/N: TB 146

Calibrator API Reference:265.00 api

Equivalent Calibrator API Reference:269.6 api

Measurement	Measured	Calibrated	Units
Background	57.7	57.8	api
Background + Calibrator	326.8	327.4	api
Calibrator	269.8	269.6	api

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name:	**DSNT - 11055304**	**Reference Calibration Date:**	**31-Mar-11 17:34:30**
Engineer:	**J. BOSH**	**Calibration Date:**	**31-Mar-11 17:51:18**
Software Version:	**WL INSITE R3.2.0 (Build 7)**	**Calibration Version:**	**1**

Logging Source S/N: DSN-424
Tank Serial Number: LIB-105060
Reference value assigned to Tank: 51.680
Snow Block S/N: 696 BLOCK
Calibration Tank Water Temperature: 64 degF
Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS

Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.988	0.990	0.900 - 1.100

WATER TANK SUMMARY (Horizontal Water Tank)

Measurement	Current Reading (Previous Coef.)	Calibrated (New Coef.)	Change	Control Limit On Change
Porosity (decp):	0.2105	0.2110	0.0005	+/- 0.0020
Calibrated Ratio:	9.71	9.73	0.016	+/- 0.050

VERIFIER

Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0644	0.02000 - 0.09000

PASS/FAIL SUMMARY

Background Check:	Passed
Gain-Range Check:	Passed
Snow-Block Check:	Passed

SPECTRAL DENSITY SHOP CALIBRATION

Tool Name:	**SDLT - I04_P84**	**Reference Calibration Date:**	**11-Mar-11 13:50:39**
Engineer:	**J. BOSH**	**Calibration Date:**	**11-Mar-11 14:09:56**
Software Version:	**WL INSITE R3.2.0 (Build 7)**	**Calibration Version:**	**1**

Logging Source S/N: 5168GW
Aluminum Block S/N: LIBERAL — Density: 2.598g/cc — Pe: 3.170
Magnesium Block S/N: LIBERAL — Density: 1.684g/cc — Pe: 2.594

DENSITY CALIBRATION SUMMARY

Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0041	0.9909	0.90 - 1.10
Near Dens Gain	0.9901	0.9919	0.90 - 1.10
Near Peak Gain	0.9875	0.9825	0.90 - 1.10
Near Lith Gain	0.9784	0.9789	0.90 - 1.10
Far Bar Gain	1.0118	1.0118	0.90 - 1.10
Far Dens Gain	1.0021	1.0004	0.90 - 1.10
Far Peak Gain	0.9972	0.9958	0.90 - 1.10
Far Lith Gain	0.9734	0.9741	0.90 - 1.10
Near Bar Offset	0.0859	0.2068	NONE
Near Dens Offset	0.1906	0.1741	NONE
Near Peak Offset	0.1792	0.2208	NONE
Near Lith Offset	0.2253	0.2201	NONE
Far Bar Offset	-0.0395	-0.0391	NONE
Far Dens Offset	0.0232	0.0367	NONE
Far Peak Offset	0.0316	0.0421	NONE

Far Lith Offset	0.1807	0.1698	NONE
Near Bar Background	769.26	769.10	700 - 1450
Near Dens Background	249.38	248.33	230 - 480
Near Peak Background	110.32	110.11	100 - 210
Near Lith Background	136.32	135.34	125 - 260
Far Bar Background	534.99	535.69	450 - 900
Far Dens Background	209.40	209.25	175 - 345
Far Peak Background	82.69	83.37	70 - 140
Far Lith Background	86.43	85.80	75 - 145

CALIBRATION BLOCK SUMMARY

Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.684	1.684	0.000	+/- 0.015
Pe	2.563	2.553	-0.010	+/- 0.150
ALUMINUM				
Density (g/cc)	2.597	2.598	0.001	+/- 0.01500
Pe	3.116	3.126	0.010	+/- 0.150

TOOL SUMMARY

Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	0.0024	+/- 0.0110	0.0035	+/- 0.0140
Magnesium Block	-0.0008	+/- 0.0110	-0.0013	+/- 0.0140
Aluminum Block	0.0018	+/- 0.0110	0.0005	+/- 0.0140
Resolution	9.14	6.00 - 11.50	9.01	6.00 - 11.50
Internal Verifier(B+D+P+L)	1263	1200 - 2700	914	800 - 1700

PASS/FAIL SUMMARY

Background Quality Check:	Passed
Background Range Check:	Passed
Background Resolution Check:	Passed
Background Verification Check:	Passed
Magnesium Quality Check:	Passed
Aluminum Quality Check:	Passed
Gains Check:	Passed
Changes in Calibration Blocks:	Passed

DENSITY CALIPER SHOP CALIBRATION

Tool Name: SDLT - I04_P84 **Reference Calibration Date:** 27-Mar-11 01:02:57

Engineer: S. JUNG **Calibration Date:** 27-Mar-11 01:06:56

Software Version: WL INSITE R3.2.0 (Build 7) **Calibration Version:** 1

CALIBRATION COEFFICIENTS

Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-3974.64	-3938.98	-7000.00 - -1000.00
Pad Gain	0.0003976	0.0003949	0.000200 - 0.000600
Arm Offset	-2472.03	-2449.30	-5000.00 - 3000.00
Arm Gain	0.0005305	0.0005123	0.000300 - 0.000700

Arm Power	-0.000006582	-0.000005776	-0.000010 - 0.000010

The ring diameter is computed from: DIAMETER = PAD EXTENSION + ARM EXTENSION + TOOL DIAMETER

Tool Diameter: 4.50 in

CALIBRATION RINGS

Measurement	Current Reading (Previous Coeff.)	Calibrated (New Coeff.)	Change	Control Limit On New Value
PAD EXTENSION:				
Small Ring (in)	2.00	2.00	0.00	+/- 0.20
Medium Ring (in)	3.76	3.75	-0.01	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.54	6.50	-0.04	+/- 0.20
Medium Ring (in)	8.33	8.25	-0.08	+/- 0.20
Large Ring (in)	15.11	15.00	-0.11	+/- 0.20

PASS/FAIL SUMMARY

Calibration-Coefficients Range Check:	Passed
Ring-Measurement Check:	Passed

PASS/FAIL SUMMARY

Calibration-Coefficients Range Check:	Passed

CALIBRATION SUMMARY

Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11039640						
Gamma Ray Calibrator	269.6	----------	----------	0.0	+/- 9.00	api
DSNT-11055304						
Snow-Block Porosity	0.0644	----------	----------	0.0000	+/- -.--	decp
SDLT-I04_P84						
Near(B+D+P+L)	1262.884	----------	----------	0.000	+/-12.606	cps
Far(B+D+P+L)	914.113	----------	----------	0.000	+/-14.874	cps
Pad Extension	3.75	----------	----------	0.00	+/-0.20	in
Ring Diameter	8.25	----------	----------	0.00	+/-0.20	in

Data: TALBOTT_6_9\0001 SP-GTET-DSN-SDL-ACRT-CH\IDLE Date: 18-Apr-11 08:25:06

HALLIBURTON

PARAMETERS REPORT

Depth (ft)	Tool Name	Mnemonic	Description	Value	Units
TOP					
	DSNT	DNOK	Process DSN?	No	
	SDLT	DNOK	Process Density?	No	
	SDLT	MLOK	Process MicroLog Outputs?	No	
3040.00					
	SHARED	BS	Bit Size	7.875	in
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	MDBS	Mud Base	Water	
	SHARED	MDWT	Borehole Fluid Weight	9.100	ppg
	SHARED	WAGT	Weighting Agent	Barite	
	SHARED	BSAL	Borehole salinity	0.00	ppm
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%
	SHARED	RMUD	Mud Resistivity	0.548	ohmm

SHARED	TRM	Temperature of Mud	75.0	degF
SHARED	CSD	Logging Interval is Cased?	No	
SHARED	ICOD	AHV Casing OD	5.500	in
SHARED	ST	Surface Temperature	75.0	degF
SHARED	TD	Total Well Depth	4691.00	ft
SHARED	BHT	Bottom Hole Temperature	120.0	degF
SHARED	SVTM	Navigation and Survey Master Tool	NONE	
SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET	
SHARED	TEMM	Temperature Master Tool	NONE	
SHARED	BHSM	Borehole Size Master Tool	NONE	
GTET	GROK	Process Gamma Ray?	Yes	
GTET	GRSO	Gamma Tool Standoff	0.000	in
GTET	GEOK	Process Gamma Ray EVR?	No	
GTET	TPOS	Tool Position	Centered	
DSNT	DNOK	Process DSN?	Yes	
DSNT	DEOK	Process DSN EVR?	No	
DSNT	NLIT	Neutron Lithology	Limestone	
DSNT	DNSO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.300	in
DSNT	DNTP	Temperature Correction Type	None	
DSNT	DPRS	DSN Pressure Correction Type	None	
DSNT	SHCO	View More Correction Options	No	
DSNT	UTVD	Use TVD for Gradient Corrections?	No	
DSNT	LHWT	Logging Horizontal Water Tank?	No	
SDLT	DNOK	Process Density?	Yes	
SDLT	DNOK	Process Density EVR?	No	
SDLT	CB	Logging Calibration Blocks?	No	
SDLT	SPVT	SDLT Pad Temperature Valid?	Yes	
SDLT	DTWN	Disable temperature warning	No	
SDLT	DMA	Formation Density Matrix	2.710	g/cc
SDLT	DFL	Formation Density Fluid	1.000	g/cc
SDLT	CLOK	Process Caliper Outputs?	Yes	
SDLT	MLOK	Process MicroLog Outputs?	Yes	
ACRt	RTOK	Process ACRt?	Yes	
ACRt	MNSO	Minimum Tool Standoff	1.50	in
ACRt	TCS1	Temperature Correction Source	FP Lwr & FP Upr	
ACRt	TPOS	Tool Position	Free Hanging	
ACRt	RMOP	Rmud Source	Mud Cell	
ACRt	RMIN	Minimum Resistivity for MAP	0.20	ohmm
ACRt	RMIN	Maximum Resistivity for MAP	200.00	ohmm
ACRt	THQY	Threshold Quality	0.50	

BOTTOM

HALLIBURTON

INPUTS, DELAYS AND FILTERS TABLE

Mnemonic	Input Description	Delay (ft)	Filter Type	Filter Length (ft)
	Depth Panel			
TENS	Tension	0.00	NO	
	CH_HOS			
DHTN	DownholeTension	0.00	BLK	0.000
	SP Sub			

PLTC	Plot Control Mask	50.81	NO	
SP	Spontaneous Potential	50.81	BLK	1.250
SPR	Raw Spontaneous Potential	50.81	NO	
SPO	Spontaneous Potential Offset	50.81	NO	

GTET

TPUL	Tension Pull	42.79	NO	
GR	Natural Gamma Ray API	42.79	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	42.79	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	42.79	W	1.416 , 0.750
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	

DSNT

TPUL	Tension Pull	32.54	NO	
RNDS	Near Detector Telemetry Counts	32.64	BLK	1.417
RFDS	Far Detector Telemetry Counts	33.39	TRI	0.583
DNTT	DSN Tool Temperature	32.64	NO	
DSNS	DSN Tool Status	32.54	NO	
ERND	Near Detector Telemetry Counts EVR	32.64	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	33.39	BLK	0.000
ENTM	DSN Tool Temperature EVR	32.64	NO	

SDLT

TPUL	Tension Pull	22.64	NO	
NAB	Near Above	22.46	BLK	0.920
NHI	Near Cesium High	22.46	BLK	0.920
NLO	Near Cesium Low	22.46	BLK	0.920
NVA	Near Valley	22.46	BLK	0.920
NBA	Near Barite	22.46	BLK	0.920
NDE	Near Density	22.46	BLK	0.920
NPK	Near Peak	22.46	BLK	0.920
NLI	Near Lithology	22.46	BLK	0.920
NBAU	Near Barite Unfiltered	22.46	BLK	0.250
NLIU	Near Lithology Unfiltered	22.46	BLK	0.250
FAB	Far Above	22.81	BLK	0.250
FHI	Far Cesium High	22.81	BLK	0.250
FLO	Far Cesium Low	22.81	BLK	0.250
FVA	Far Valley	22.81	BLK	0.250
FBA	Far Barite	22.81	BLK	0.250
FDE	Far Density	22.81	BLK	0.250
FPK	Far Peak	22.81	BLK	0.250
FLI	Far Lithology	22.81	BLK	0.250
PTMP	Pad Temperature	22.65	BLK	0.920
NHV	Near Detector High Voltage	19.83	NO	
FHV	Far Detector High Voltage	19.83	NO	
ITMP	Instrument Temperature	19.83	NO	
DDHV	Detector High Voltage	19.83	NO	
TPUL	Tension Pull	22.65	NO	
PCAL	Pad Caliper	22.65	TRI	0.250
ACAL	Arm Caliper	22.65	TRI	0.250
TPUL	Tension Pull	22.83	NO	
MINV	Microlog Lateral	22.83	BLK	0.750
MNOR	Microlog Normal	22.83	BLK	0.750

ACRt

TPUL	Tension Pull	2.97	NO	
F1R1	ACRT 12KHz - 80in R value	9.22	BLK	0.000
F1X1	ACRT 12KHz - 80in X value	9.22	BLK	0.000
F1R2	ACRT 12KHz - 50in R value	6.72	BLK	0.000
F1X2	ACRT 12KHz - 50in X value	6.72	BLK	0.000
F1R3	ACRT 12KHz - 29in R value	5.22	BLK	0.000
F1X3	ACRT 12KHz - 29in X value	5.22	BLK	0.000
F1R4	ACRT 12KHz - 17in R value	4.22	BLK	0.000
F1X4	ACRT 12KHz - 17in X value	4.22	BLK	0.000
F1R5	ACRT 12KHz - 10in R value	3.72	BLK	0.000
F1X5	ACRT 12KHz - 10in X value	3.72	BLK	0.000
F1R6	ACRT 12KHz - 6in R value	3.47	BLK	0.000
F1X6	ACRT 12KHz - 6in X value	3.47	BLK	0.000
F2R1	ACRT 36KHz - 80in R value	9.22	BLK	0.000
F2X1	ACRT 36KHz - 80in X value	9.22	BLK	0.000
F2R2	ACRT 36KHz - 50in R value	6.72	BLK	0.000
F2X2	ACRT 36KHz - 50in X value	6.72	BLK	0.000
F2R3	ACRT 36KHz - 29in R value	5.22	BLK	0.000
F2X3	ACRT 36KHz - 29in X value	5.22	BLK	0.000
F2R4	ACRT 36KHz - 17in R value	4.22	BLK	0.000
F2X4	ACRT 36KHz - 17in X value	4.22	BLK	0.000
F2R5	ACRT 36KHz - 10in R value	3.72	BLK	0.000
F2X5	ACRT 36KHz - 10in X value	3.72	BLK	0.000
F2R6	ACRT 36KHz - 6in R value	3.47	BLK	0.000
F2X6	ACRT 36KHz - 6in X value	3.47	BLK	0.000
F3R1	ACRT 72KHz - 80in R value	9.22	BLK	0.000
F3X1	ACRT 72KHz - 80in X value	9.22	BLK	0.000
F3R2	ACRT 72KHz - 50in R value	6.72	BLK	0.000
F3X2	ACRT 72KHz - 50in X value	6.72	BLK	0.000
F3R3	ACRT 72KHz - 29in R value	5.22	BLK	0.000
F3X3	ACRT 72KHz - 29in X value	5.22	BLK	0.000
F3R4	ACRT 72KHz - 17in R value	4.22	BLK	0.000
F3X4	ACRT 72KHz - 17in X value	4.22	BLK	0.000
F3R5	ACRT 72KHz - 10in R value	3.72	BLK	0.000
F3X5	ACRT 72KHz - 10in X value	3.72	BLK	0.000
F3R6	ACRT 72KHz - 6in R value	3.47	BLK	0.000
F3X6	ACRT 72KHz - 6in X value	3.47	BLK	0.000
RMUD	Mud Resistivity	12.76	BLK	0.000
F1RT	Transmitter Reference 12 KHz Real Signal	2.97	BLK	0.000
F1XT	Transmitter Reference 12 KHz Imaginary Signal	2.97	BLK	0.000
F2RT	Transmitter Reference 36 KHz Real Signal	2.97	BLK	0.000
F2XT	Transmitter Reference 36 KHz Imaginary Signal	2.97	BLK	0.000
F3RT	Transmitter Reference 72 KHz Real Signal	2.97	BLK	0.000
F3XT	Transmitter Reference 72 KHz Imaginary Signal	2.97	BLK	0.000
TFPU	Upper Feedpipe Temperature Calculated	2.97	BLK	0.000
TFPL	Lower Feedpipe Temperature Calculated	2.97	BLK	0.000
ITMP	Instrument Temperature	2.97	BLK	0.000
TCVA	Temperature Correction Values Loop Off	2.97	NO	
TIDV	Instrument Temperature Derivative	2.97	NO	
TUDV	Upper Temperature Derivative	2.97	NO	
TLDV	Lower Temperature Derivative	2.97	NO	
TRBD	Receiver Board Temperature	2.97	NO	

COMPANY **VAL ENERGY INC.**

WELL	**TALBOTT #6-9**
FIELD	
COUNTY	**BARBER**
STATE	**KANSAS**

HALLIBURTON

SPECTRAL DENSITY
DUAL SPACED NEUTRON
LOG

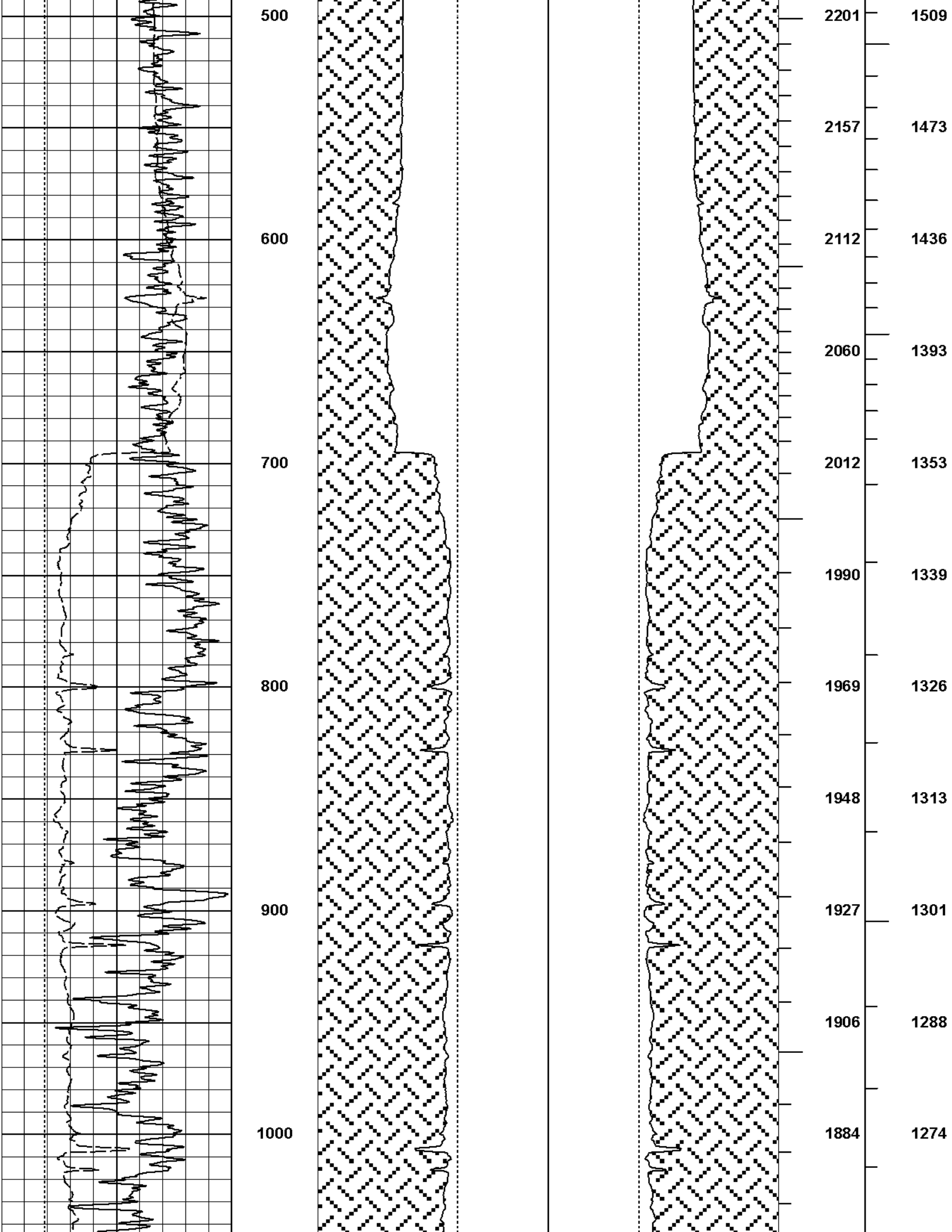
HALLIBURTON

Plot Time: 18-Apr-11 16:27:09
Plot Range: 200 ft to 4694.67 ft
Data: TALBOTT_6_9\Well Based\DAQ-0001-003\
Plot File: \\-LOCAL-\TALBOTT_6_9\Well Based\PORO\AHV_2_IQ_LIB

ANNULAR HOLE VOLUME PLOT

0 Gamma API 150		MUDCAKE	MUDCAKE		
api					
6 Bit Size 16		20 Bit Size 0	0 Bit Size 20		
inches					
6 Caliper 16	1 : 600 ft	20 Caliper 0	0 Caliper 20	BHVT	AHVT
inches		inches	inches		
	300			2440	1707
				2394	1669
	400			2349	1632
				2300	1591
				2247	1547

Caliper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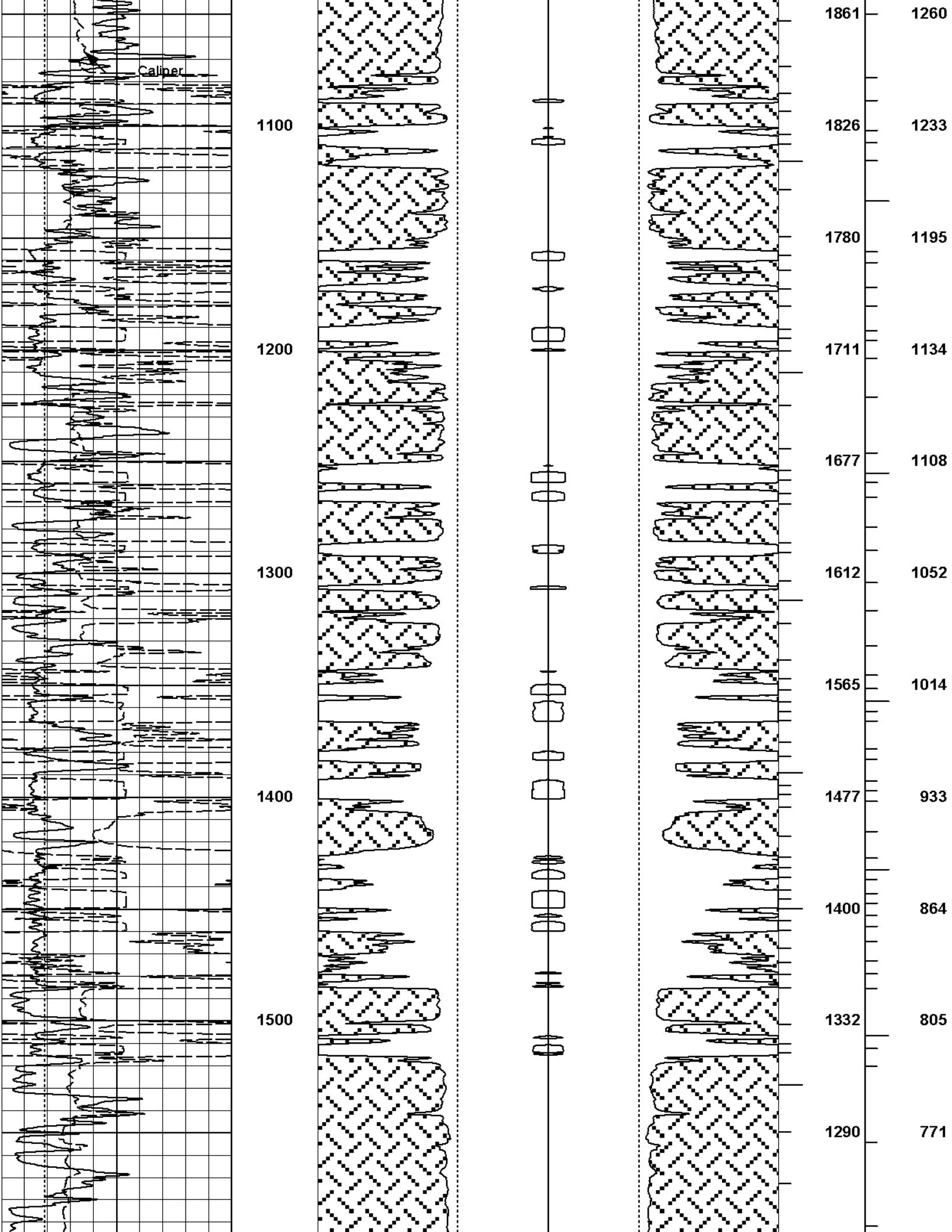
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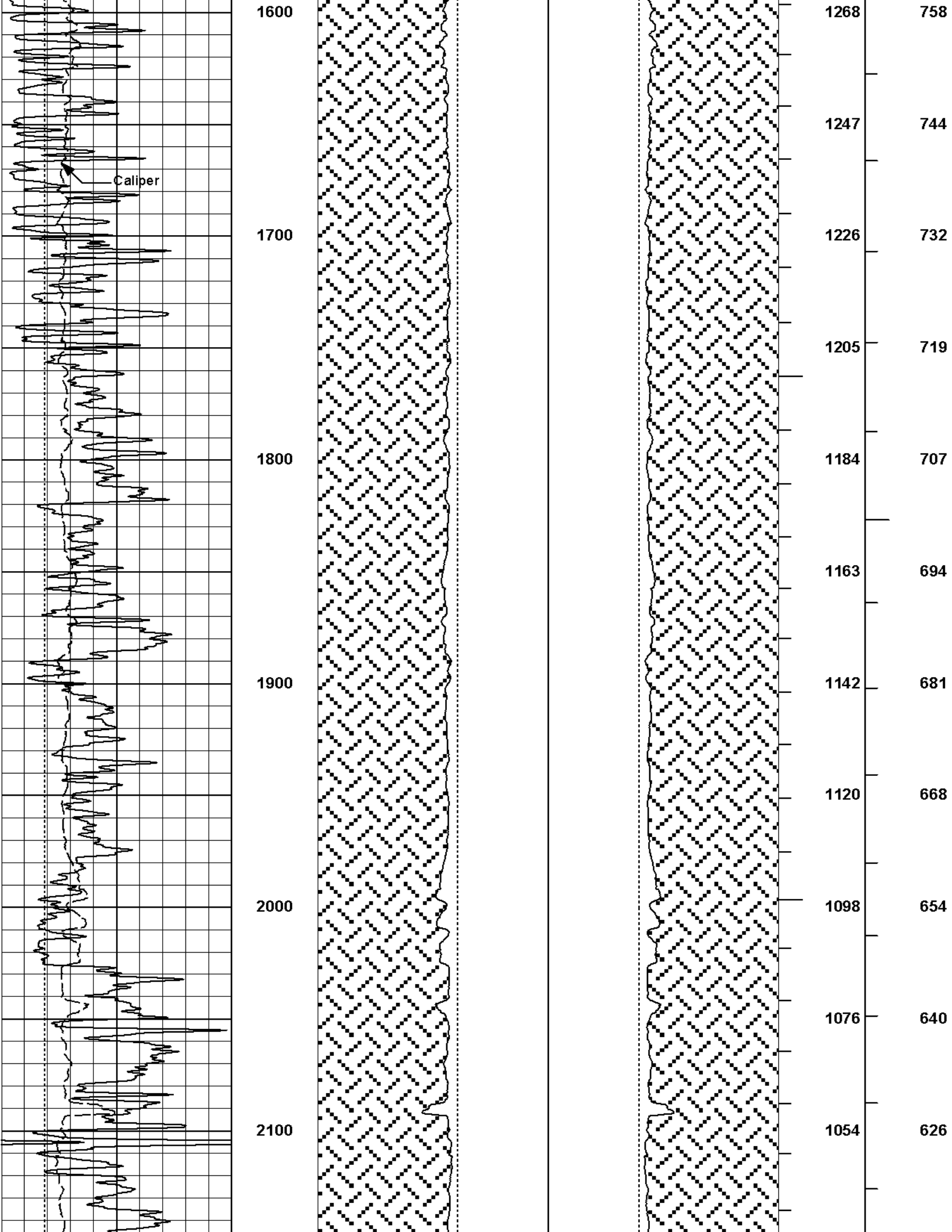
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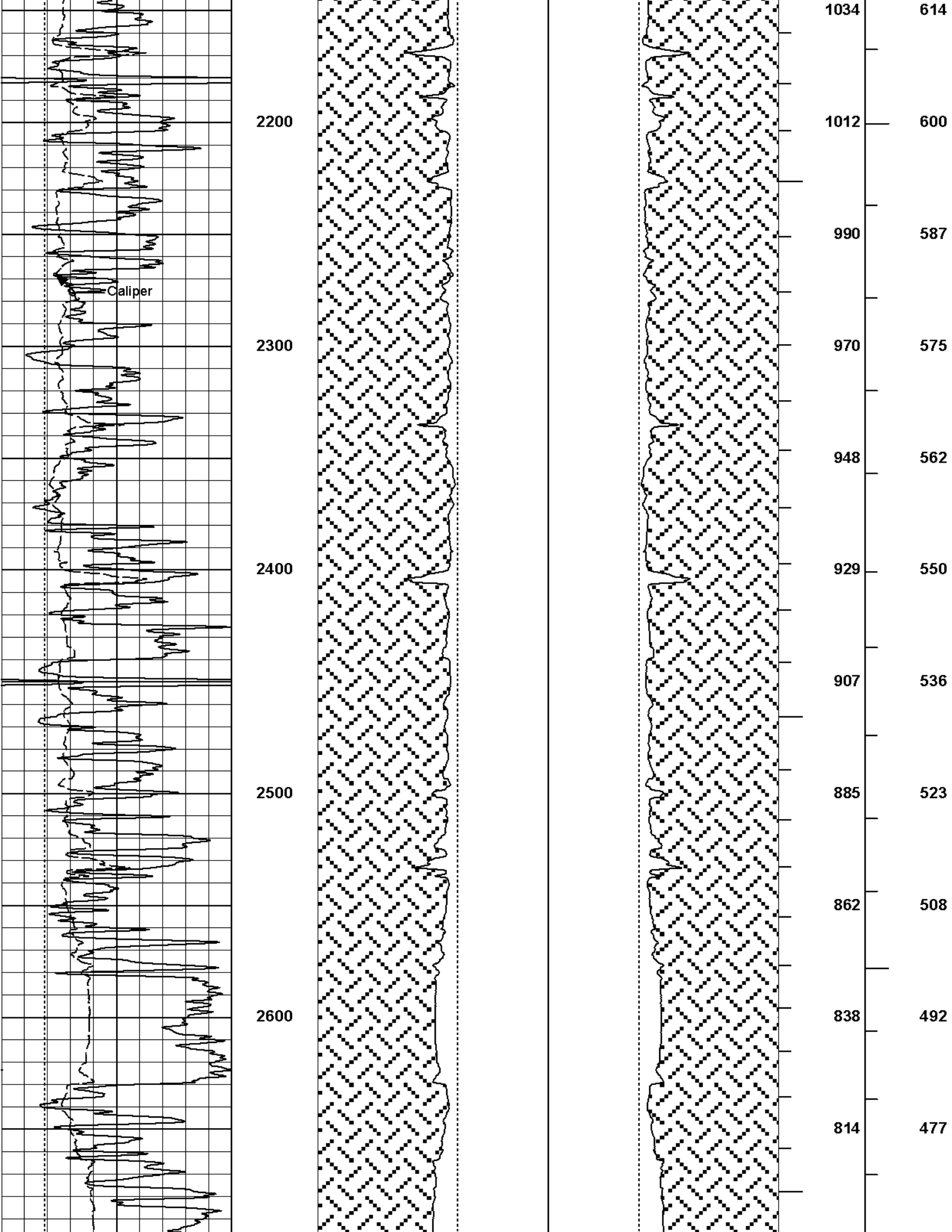
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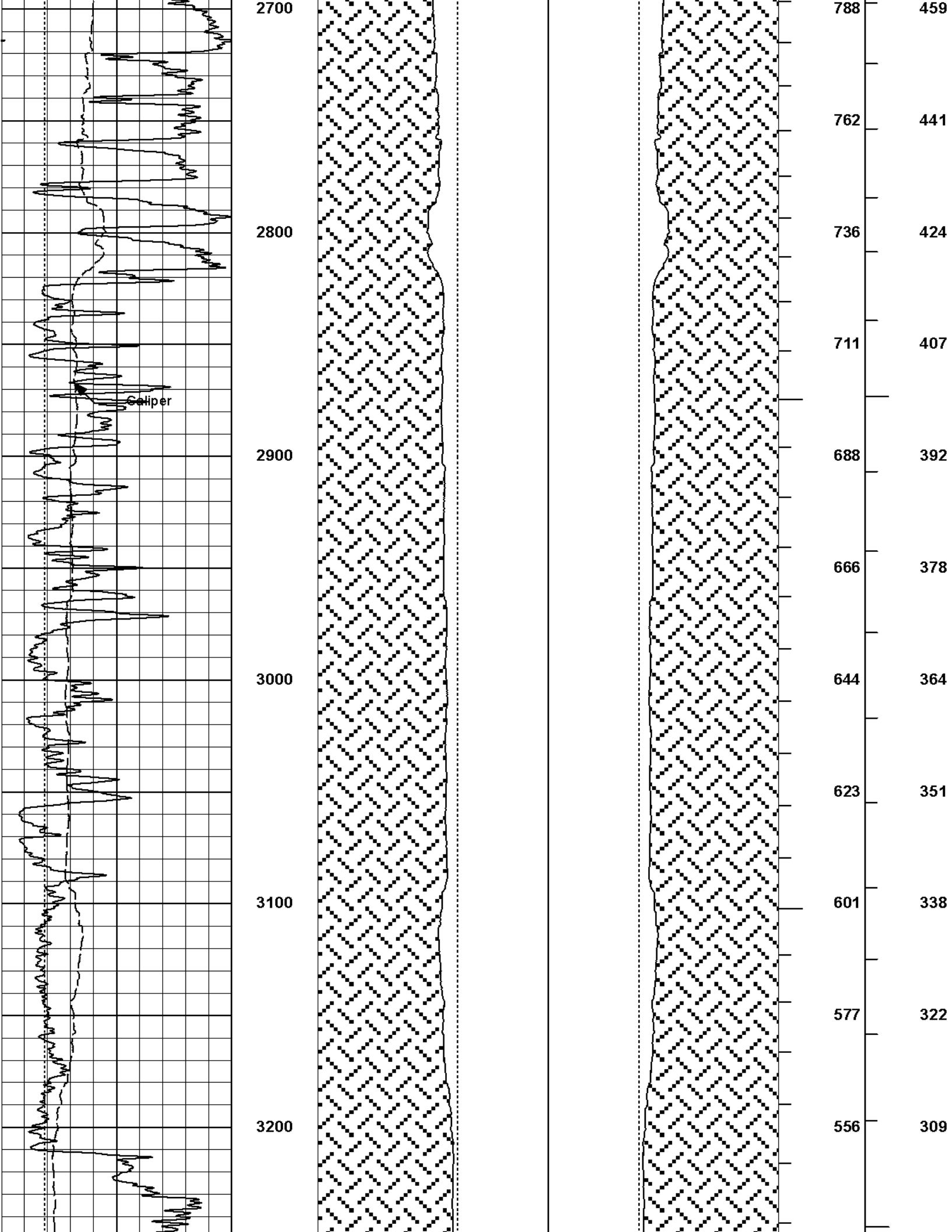
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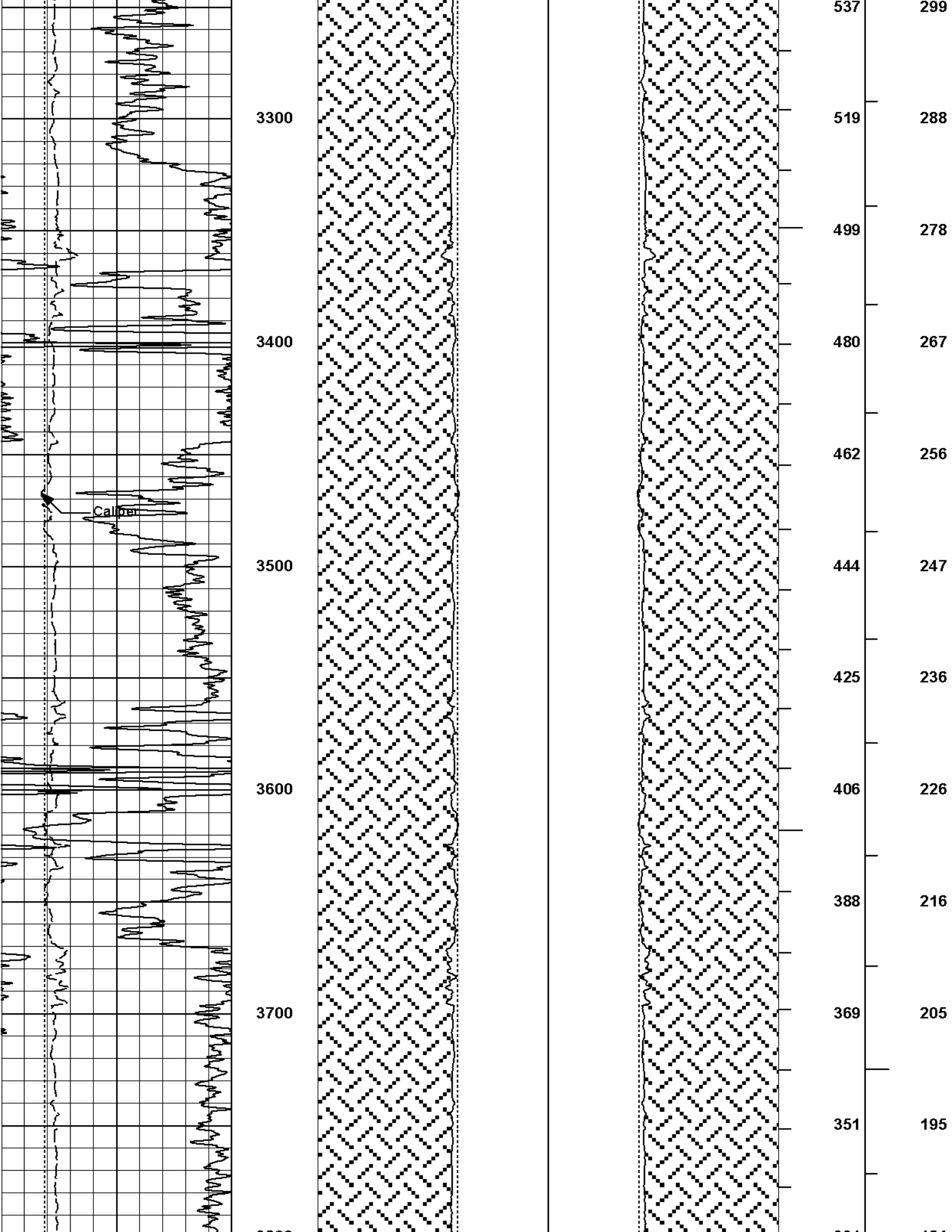
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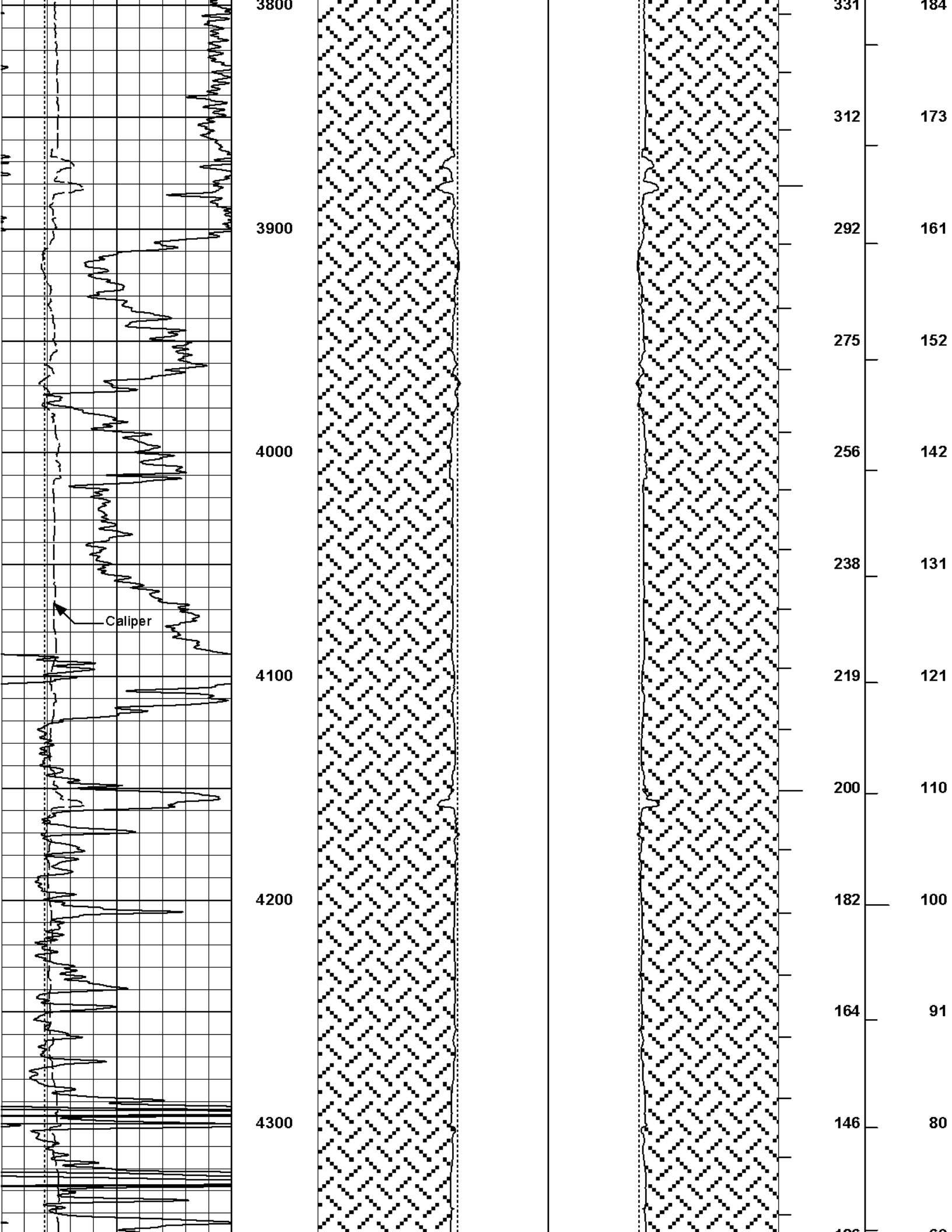
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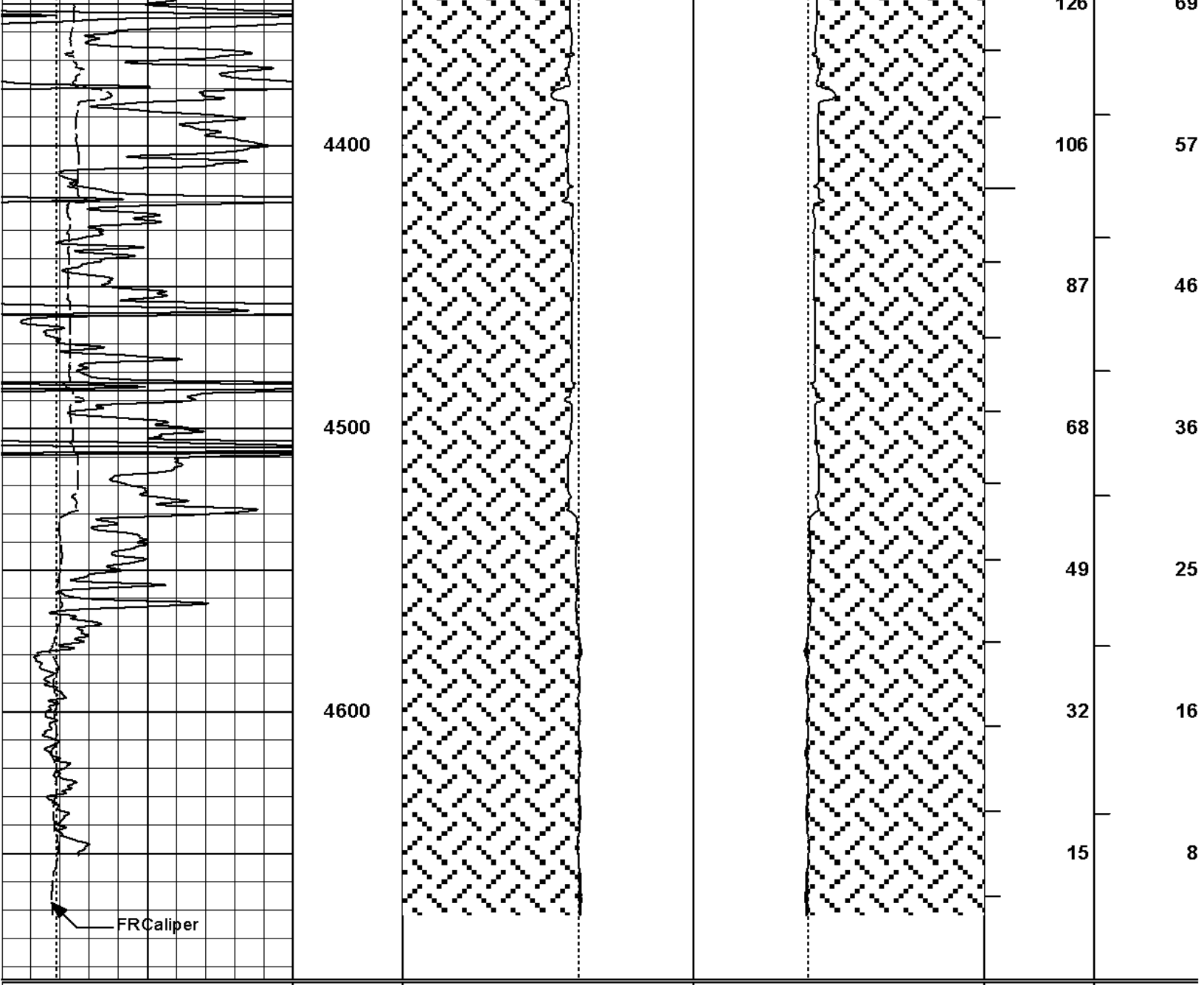
121
110
100
91
80



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

0 Caliper 20	BHVT	AHVT
inches		
0 Bit Size 20		
MUDCAKE		

HALLIBURTON

Plot Time: 18-Apr-11 16:27:15
Plot Range: 200 ft to 4694.67 ft
Data: TALBOTT_6_9\Well Based\DAQ-0001-003\
Plot File: \\-LOCAL-\TALBOTT_6_9\Well Based\PORO\AHV_2_IQ_LIB

ANNULAR HOLE VOLUME PLOT