

HALLIBURTON

DUAL SPACED NEUTRON SPECTRAL DENSITY ARRAY COMP. RESISTIVITY

COMPANY		PLAINS EXPLORATION AND PRODUCTION CO.			
WELL		CURREY 16-15B			
FIELD		BRUSH CREEK			
COUNTY		MESA			
STATE		CO			
Permanent Datum		GL		Elev. 6781.0 ft	
Log measured from		KB		Elev. 6798.0 ft	
Drilling measured from		KB		Elev. 6781.0 ft	
Date		11-Mar-08 23:30			
Run No.		ONE			
Depth - Driller		6638.0 ft			
Depth - Logger		6609.0 ft			
Bottom - Logged Interval		6606.0 ft			
Top - Logged Interval		100.0 ft			
Casing - Driller		8.625 in @ 1528.0 ft			
Casing - Logger		1528.0 ft			
Bit Size		7.875 in			
Type Fluid in Hole		LSND			
Density		10.0 ppg		41.00 s/qt	
PH		10.10 pH		4.0 qpm	
Source of Sample		MUD TANK			
Rm @ Meas. Temperature		2.46 ohmm @ 57.00 degF			
Rmf @ Meas. Temperature		2.02 ohmm @ 64.00 degF			
Rmc @ Meas. Temperature		2.87 ohmm @ 64.20 degF			
Source Rmf		CHART			
Rm @ BHT		0.88 ohmm @ 172.0 degF			
Time Since Circulation		9.8 hr			
Time on Bottom		12-Mar-08 01:45			
Max. Rec. Temperature		172.0 degF @ 6609.0 ft			
Equipment Location		11014853 GU			
Recorded By		M. CARPENTER		J. GEISER	
Witnessed By		E. DARRELL			

Fold here

Service Ticket No.: 5736986				API Serial No.: 050770947900				PGM Version: WL INSITE R2.0 (Build 22)											
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-ODESSA	N/A	N/A	N/A									
Rmc @ Meas. Temp.		@		@			e895-s200												
Source Rmf	Rmc	CALC.	CALC.																
Rm @ BHT		0.88 ohmm @ 172.00 degF		@															
Rmf @ BHT		0.80 ohmm @ 172.00 degF		@															
Rmc @ BHT		1.14 ohmm @ 172.00 degF		@															
EQUIPMENT DATA																			
GAMMA				ACOUSTIC				DENSITY				NEUTRON							
Run No.	ONE			Run No.				Run No.	ONE			Run No.	ONE						
Serial No.	11005602			Serial No.				Serial No.	10951314			Serial No.	10993888						
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	GAMMA-GAMMA			Log Type	THERMAL						
Type	SCINT.							Source Type	Cs 137			Source Type	Am241Be						
Length	8"			LSA [Y/N]				Serial No.	5123GW			Serial No.	DSN-388						
Distance to Source	10'			FWDA [Y/N]				Strength	1.5 Ci			Strength	18.5 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	T.D.	SURF.	REC.	0	200				30%	-10%	SAND	30%	-10%	2.68	
DIRECTIONAL INFORMATION															
Maximum Deviation									@			KOP			@
Remarks:															
RWCH-GTET-DSN-SDL-ACRt WERE RAN IN COMBINATION.															
HOLE RUGOSITY AND TENSION PULLS MAY AFFECT LOG QUALITY.															
A.H.V. CALCULATED FOR 4.5" CASING.															
CHLORIDES REPORTED AT 1300 mg/L.															
LATITUDE : 39.27° N // LONGITUDE : 107.89° W															
YOUR CREW TODAY IS M. ZWIEBEL AND A. KODAH.									RIG : ENSIGN #42						
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES - GRAND JUNCTION, CO - (970) 523-3600.															
<div>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.</div>															
HALLIBURTON															

HALLIBURTON

PARAMETERS REPORT

Depth (ft)	Tool Name	Mnemonic	Description	Value	Units
TOP					
	SHARED	BS	Bit Size	7.875	in
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	MDWT	Borehole Fluid Weight	10.000	ppg
	SHARED	RMUD	Mud Resistivity	2.460	ohmm
	SHARED	TRM	Temperature of Mud	57.0	degF
	SHARED	OBM	Oil Based Mud System?	No	
	SHARED	CSD	Logging Interval is Cased?	No	
	SHARED	ICOD	AHV Casing OD	4.500	in
	SHARED	ST	Surface Temperature	75.0	degF
	SHARED	TD	Total Well Depth	6638.00	ft
	SHARED	BHT	Bottom Hole Temperature	172.0	degF
	Rwa / CrossPlot	XPOK	Process Crossplot?	Yes	
	Rwa / CrossPlot	FCHO	Select Source of F	Automatic	
	Rwa / CrossPlot	AFAC	Archie A factor	0.6200	
	Rwa / CrossPlot	MFAC	Archie M factor	2.1500	
	Rwa / CrossPlot	RMFR	Rmf Reference	0.10	ohmm
	Rwa / CrossPlot	TMFR	Rmf Ref Temp	75.00	degF
	Rwa / CrossPlot	RWA	Resistivity of Formation Water	0.05	ohmm
	GTET	GROK	Process Gamma Ray?	Yes	
	GTET	GRSO	Gamma Tool Standoff	0.000	in
	GTET	GEOK	Process Gamma Ray EVR?	No	

DSNT	DNOK	Process DSN?	Yes	
DSNT	DEOK	Process DSN EVR?	No	
DSNT	NLIT	Neutron Lithology	Sandstone	
DSNT	DNSO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.000	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		Logging Horizontal Water Tank?	No	
SDLT	DNOK	Process Density?	Yes	
SDLT	DNOK	Process Density EVR?	No	
SDLT	AD	Is Hole Air Drilled?	No	
SDLT	CB	Use Calibration Blocks?	No	
SDLT	SPVT	SDLT Pad Temperature Valid?	Yes	
SDLT	DTWN	Disable temperature warning	No	
SDLT	MDTP	Weighted Mud Correction Type?	Barite	
SDLT	DMA	Formation Density Matrix	2.680	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	CIND	Casing Indicator Enabled?	Yes	
ACRt	RECE	Relative Caliper Error	0	%
ACRt	MNSO	Minimum Tool Standoff	1.50	in
ACRt	RMC	Use RM Calculated for BHC?	No	
ACRt	LTNM	Acrt Lateral Normalization	None	
ACRt	UTC	Use Temperature Correction	Yes	
ACRt	TCS1	Temperature Correction Source	FP Lwr & FP Upr	
ACRt	TPOS	Tool Position	Standoff	
ACRt	BHCM	Borehole Compensation Type	Conventional	
ACRt	RMIN	Minimum Resistivity for MAP	0.20	ohmm
ACRt	RMIN	Maximum Resistivity for MAP	200.00	ohmm

BOTTOM

Data: PXP_CURR_16_15B\0001 TRIPLE COMBO 1\IDLE

Date: 12-Mar-08 02:56:01

HALLIBURTON

Plot Time: 12-Mar-08 04:43:27

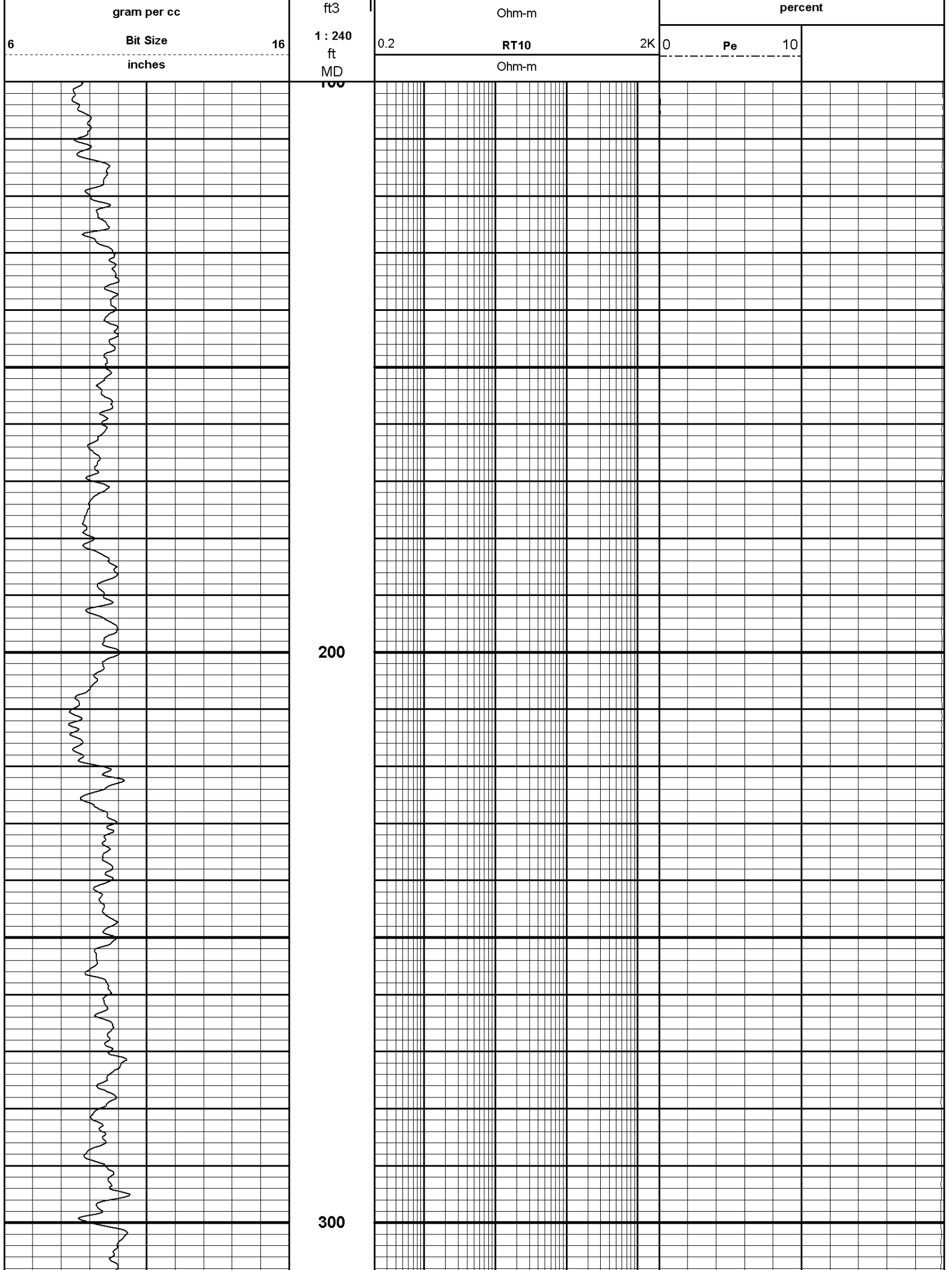
Plot Range: 100 ft to 6620 ft

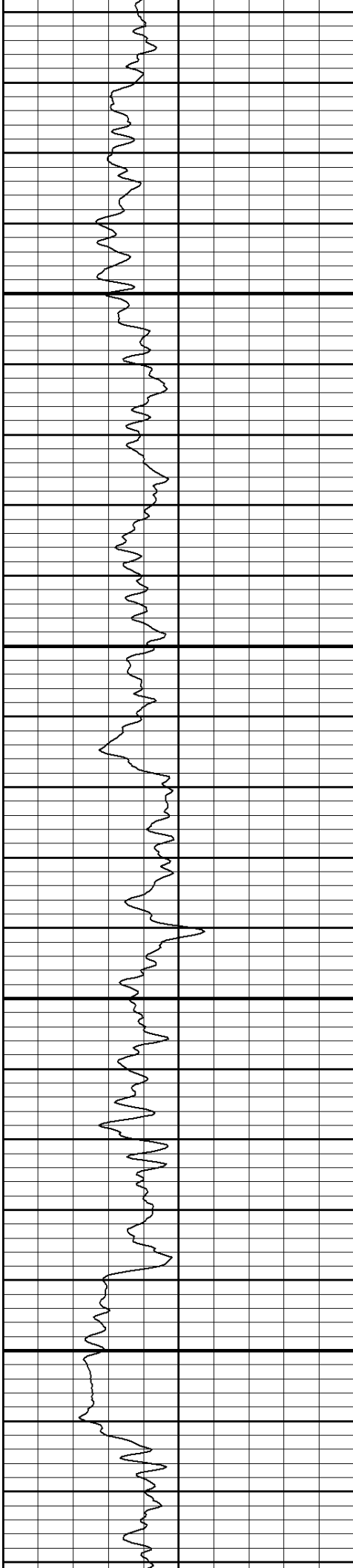
Data: PXP_CURR_16_15B\Well Based*

Plot File: \TRIPLE\IQ_COMPOSITE_HRI_5IN_RM

MAIN PASS 5" = 100'

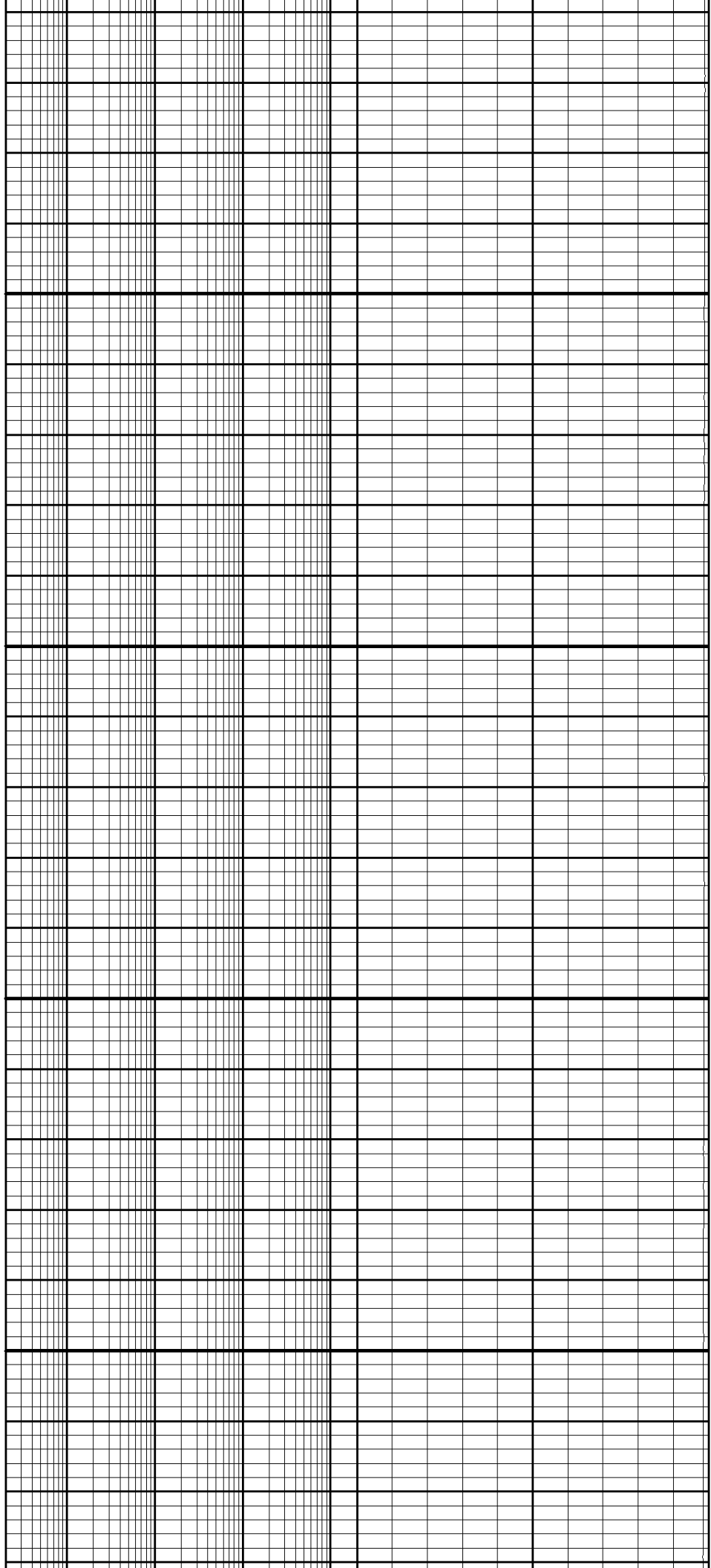
SP				0.2RT902K			
-110[+				Ohm-m			
6	Caliper	16		0.2	RT60	2K	21000Tension1000
inches				Ohm-m		pounds	
0	Gamma API	200	BHV ft3	0.2	RT30	2K	30Neutron Porosity-10
api				Ohm-m		percent	
-0.9	DensityCorr	0.1		0.2	RT20	2K	30DensityPorosity-10
			AHV				

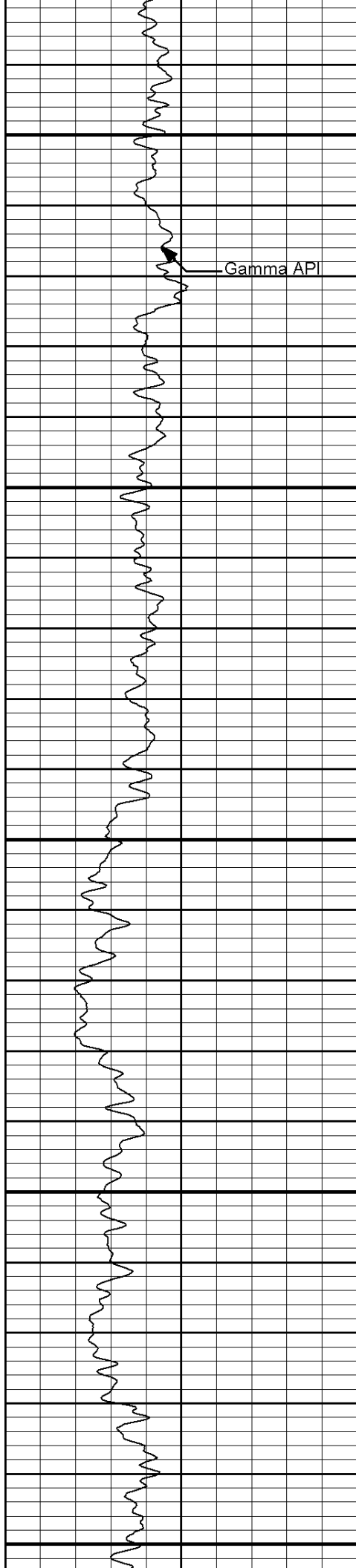




400

500

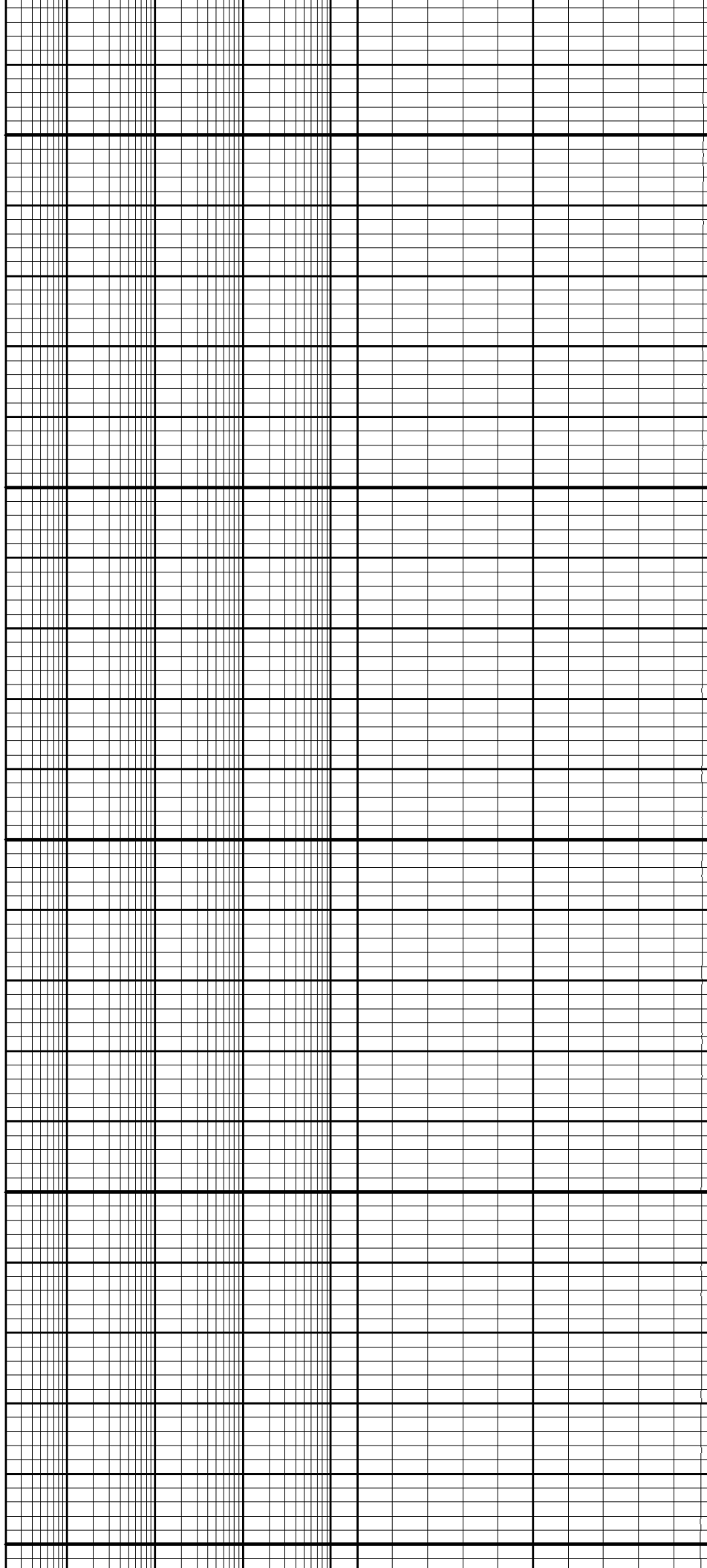


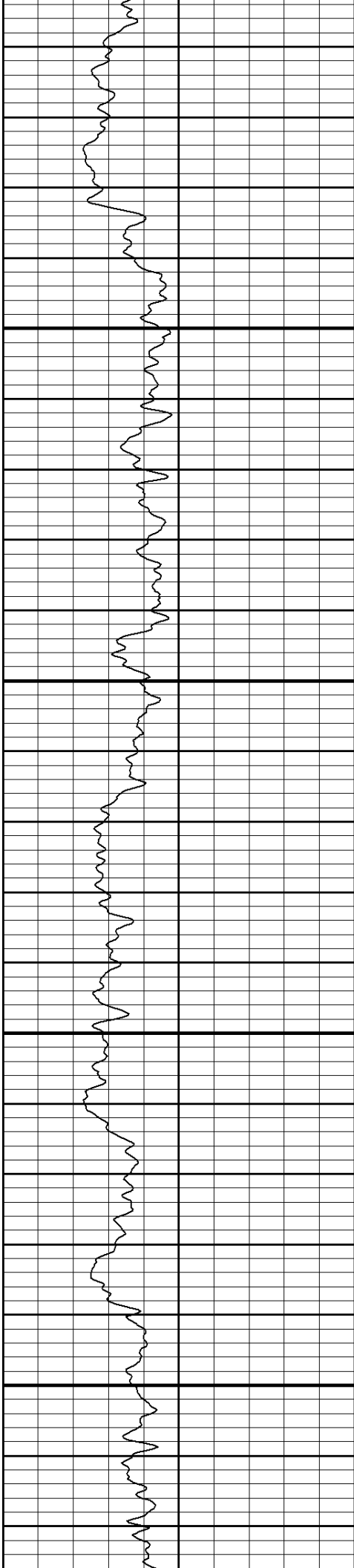


Gamma API

600

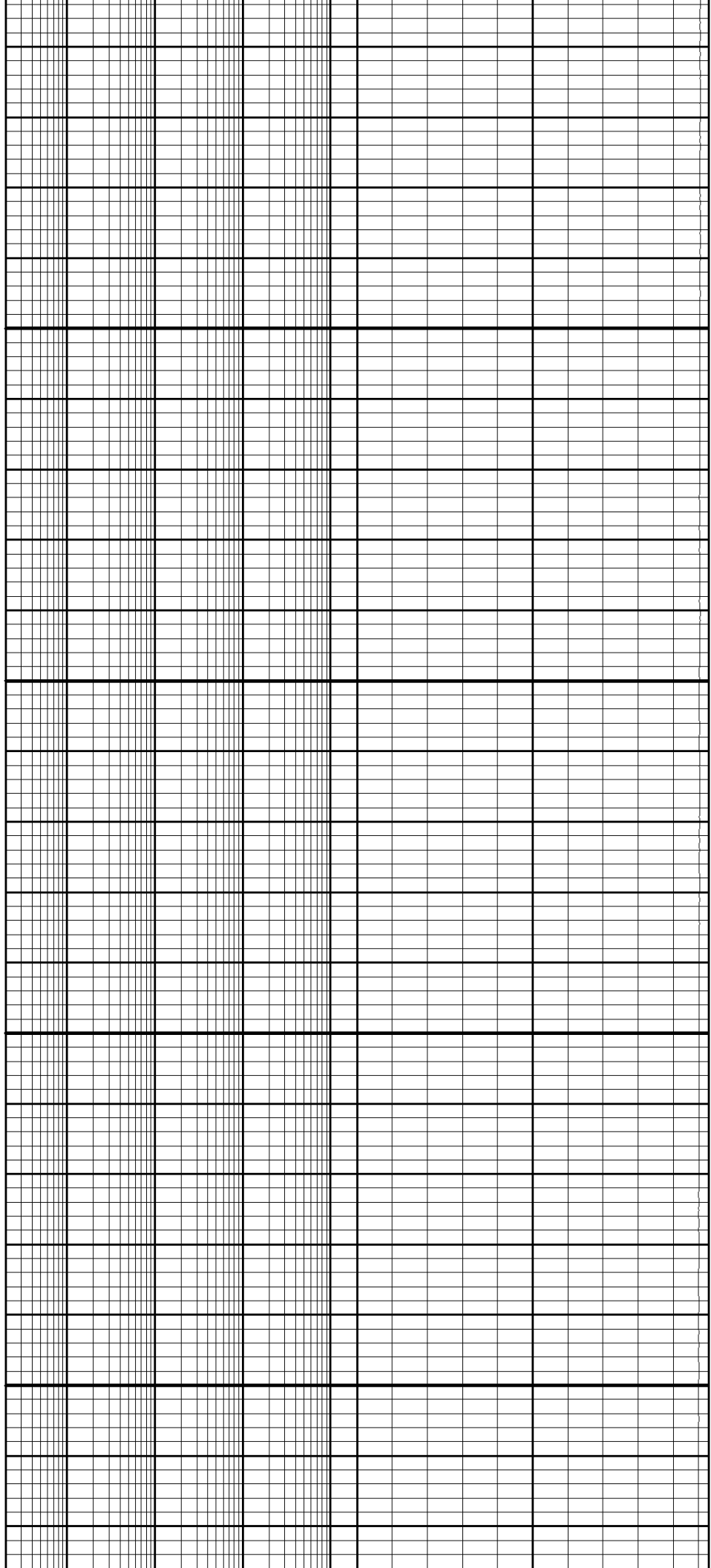
700

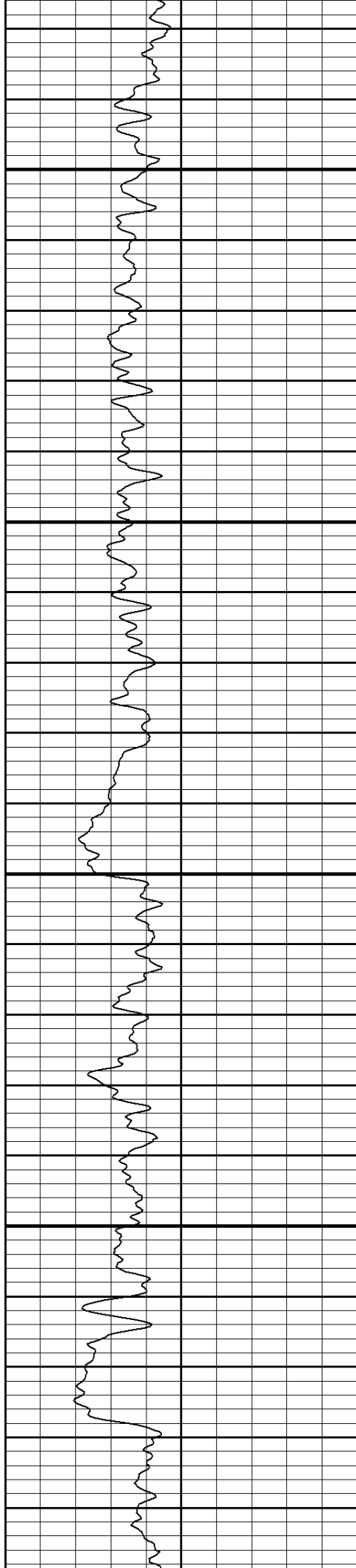




800


900

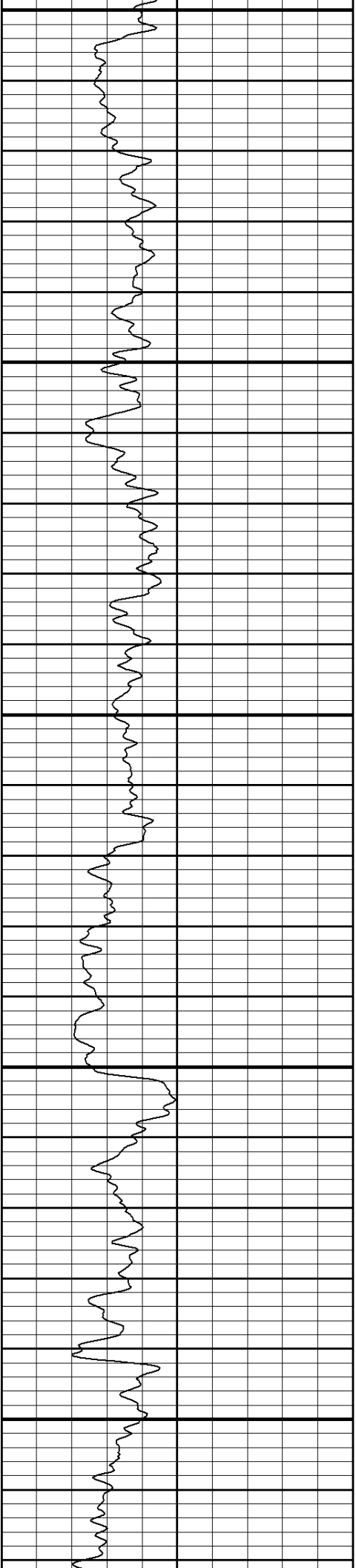




1000

1100

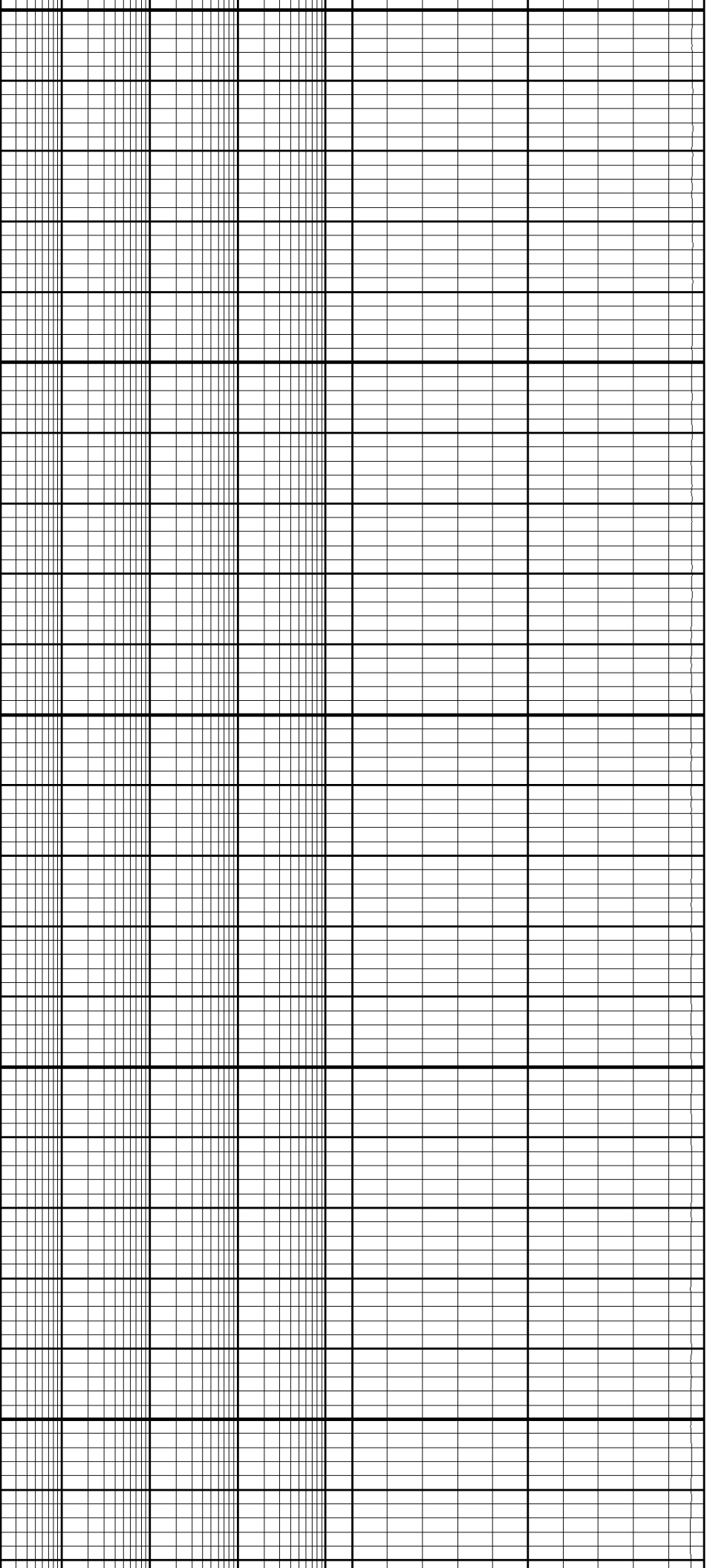
Tension 

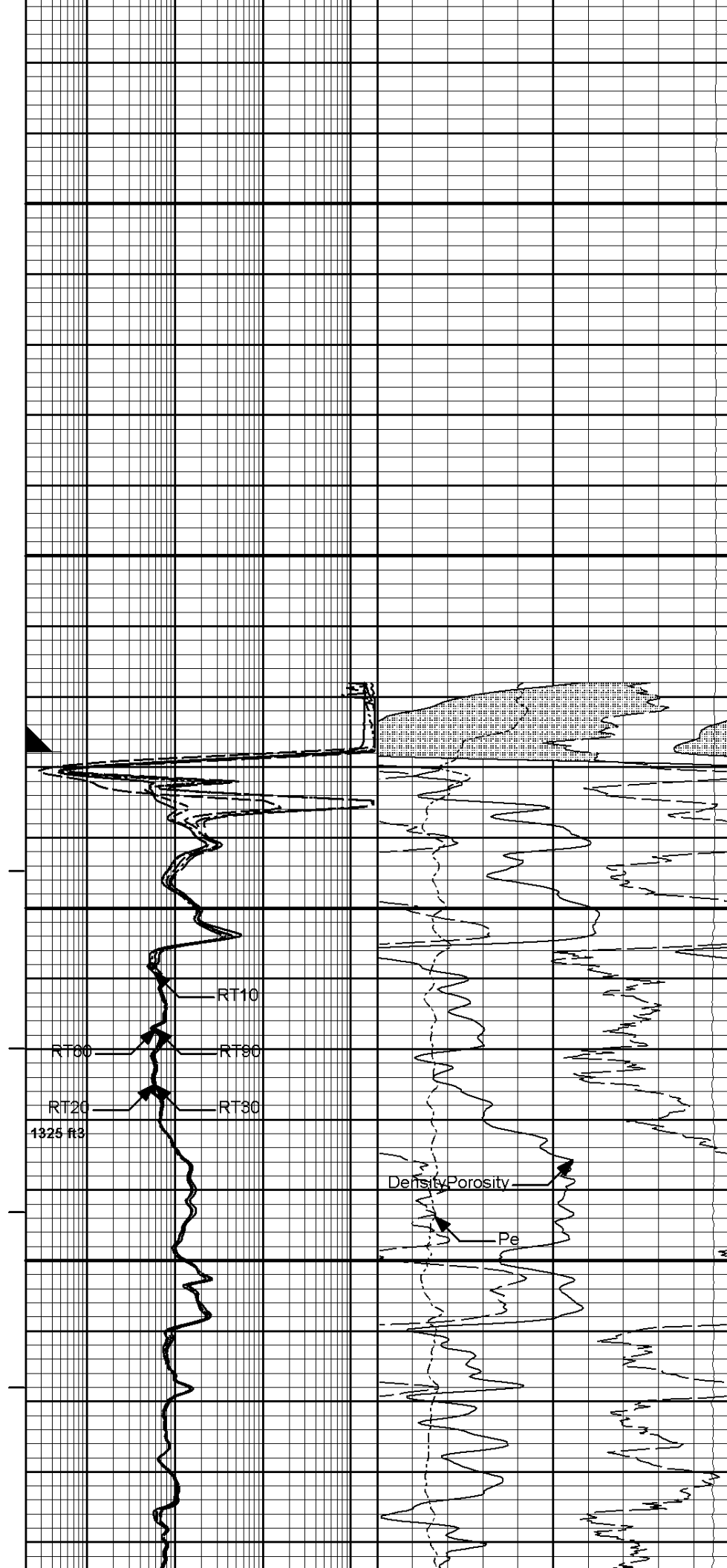
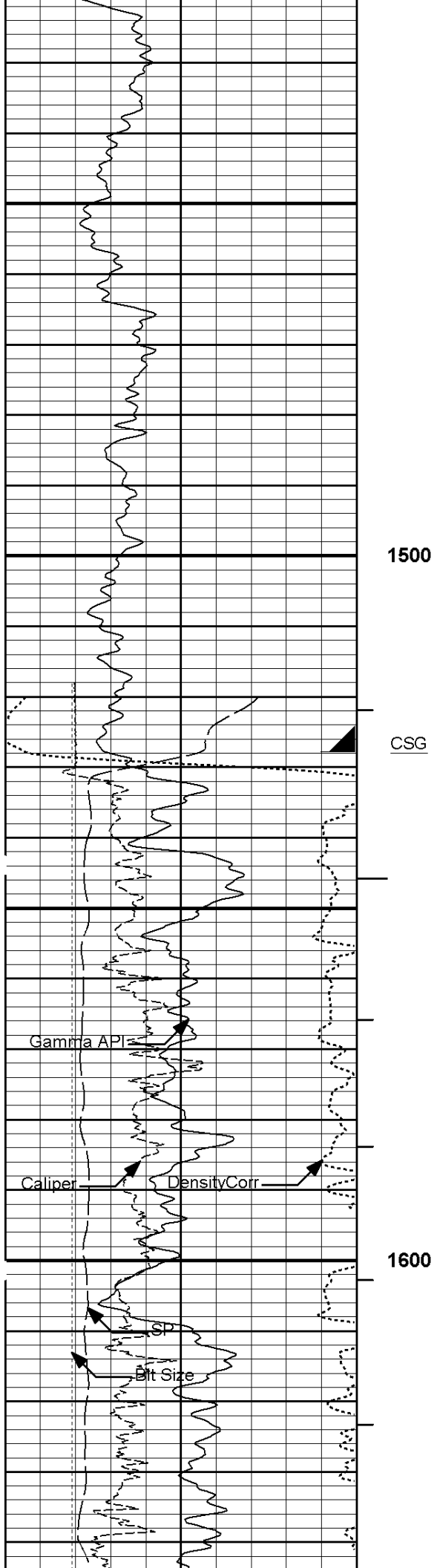


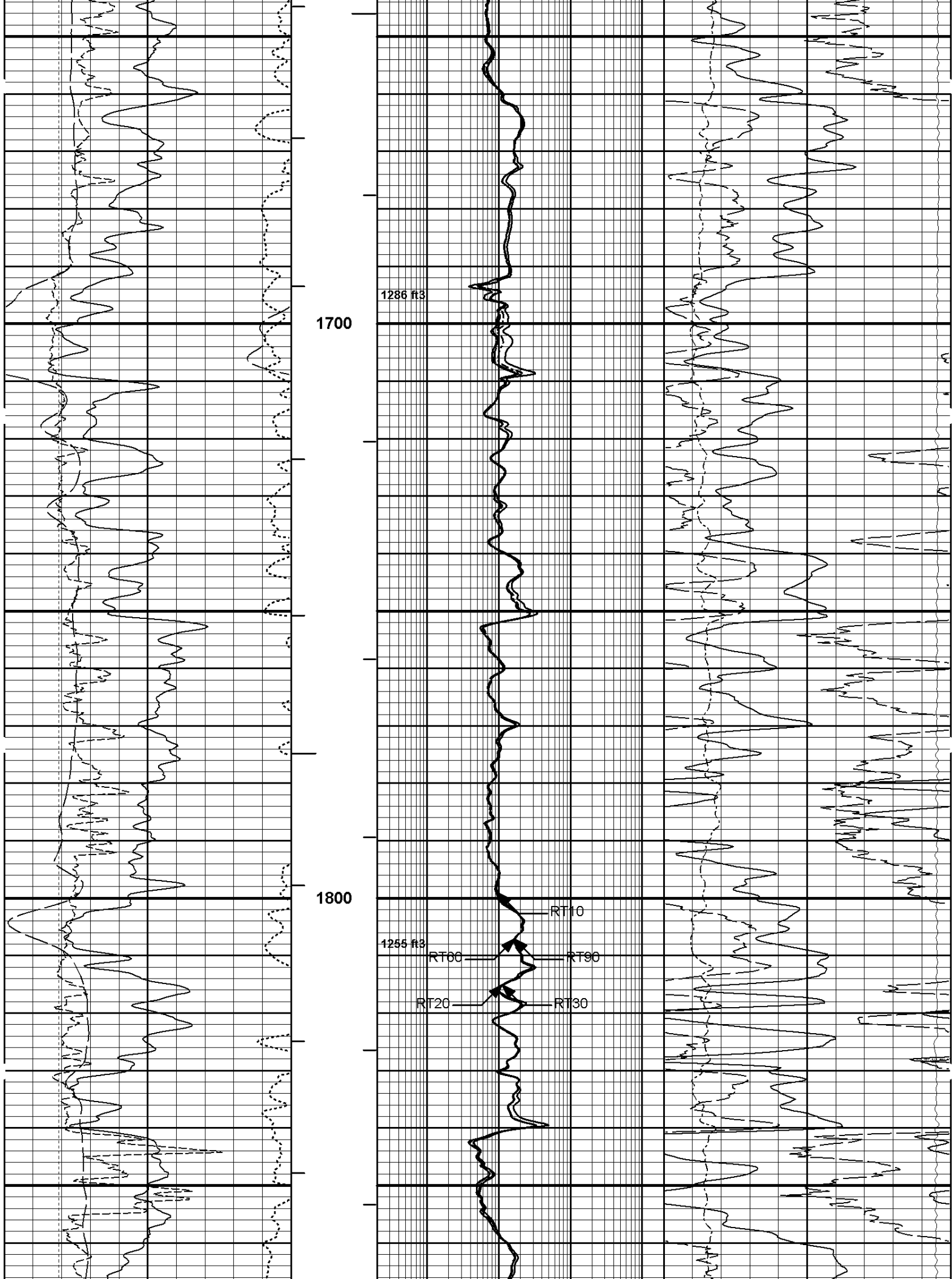
1200

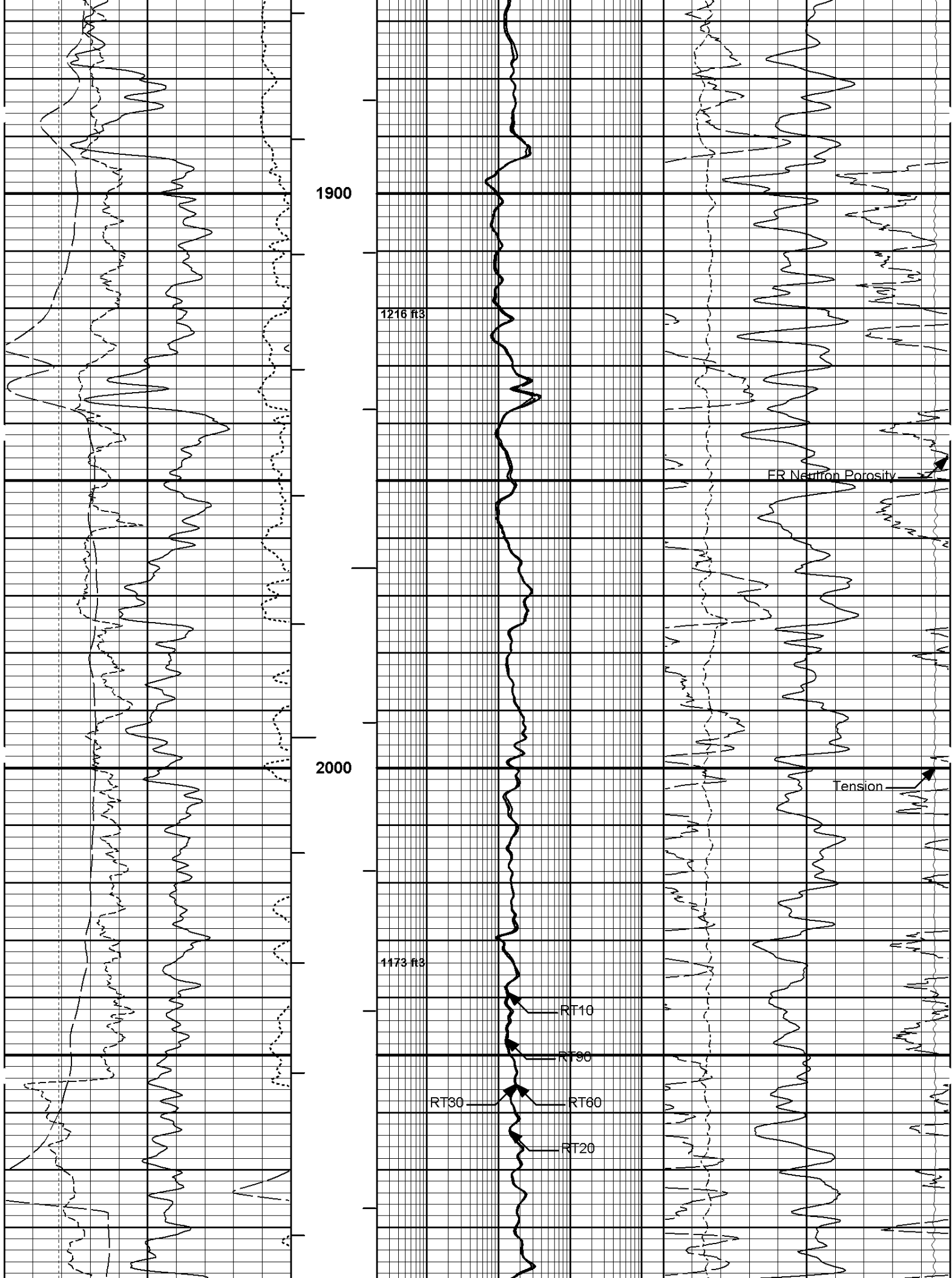
1300

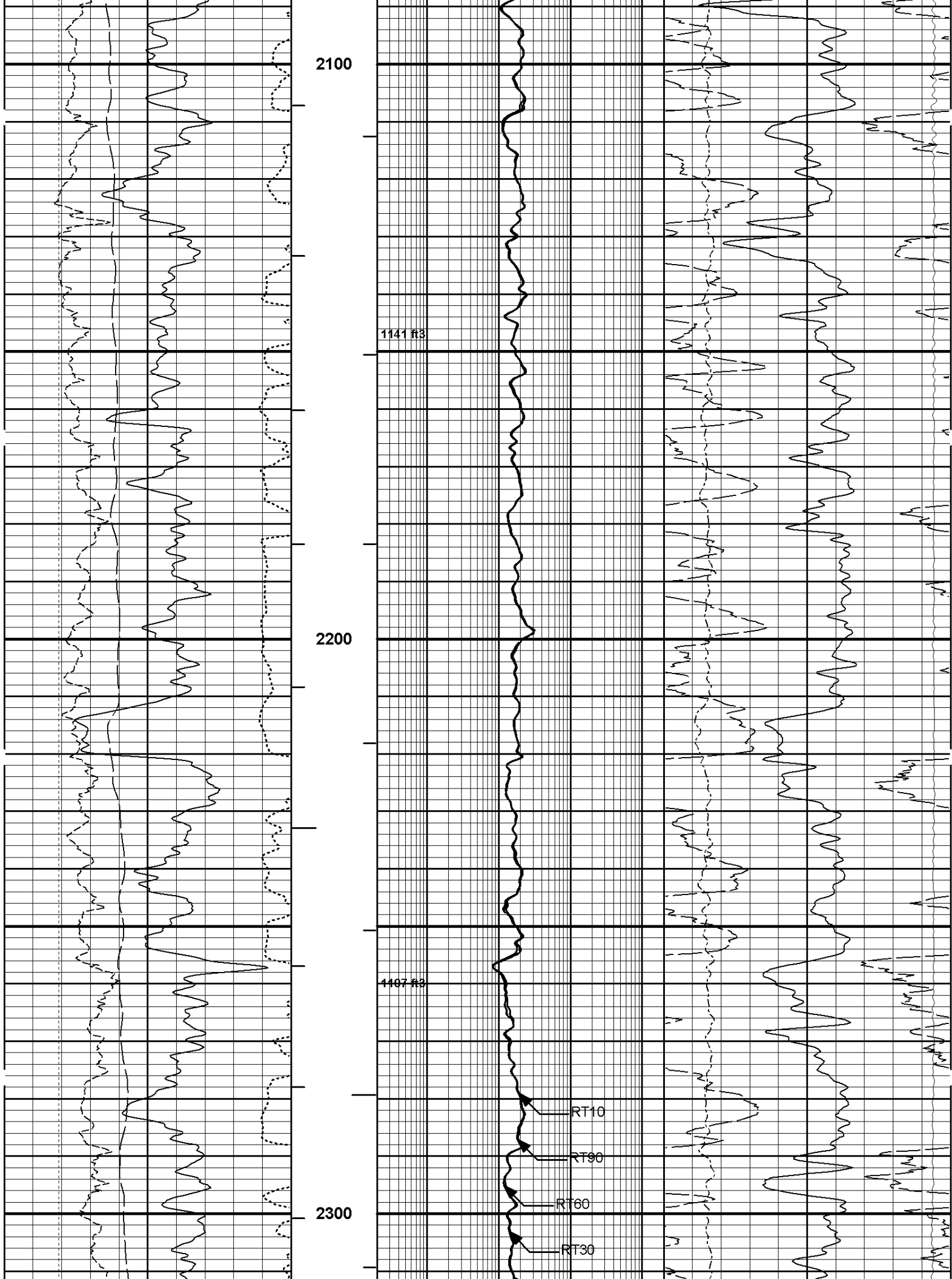
1400

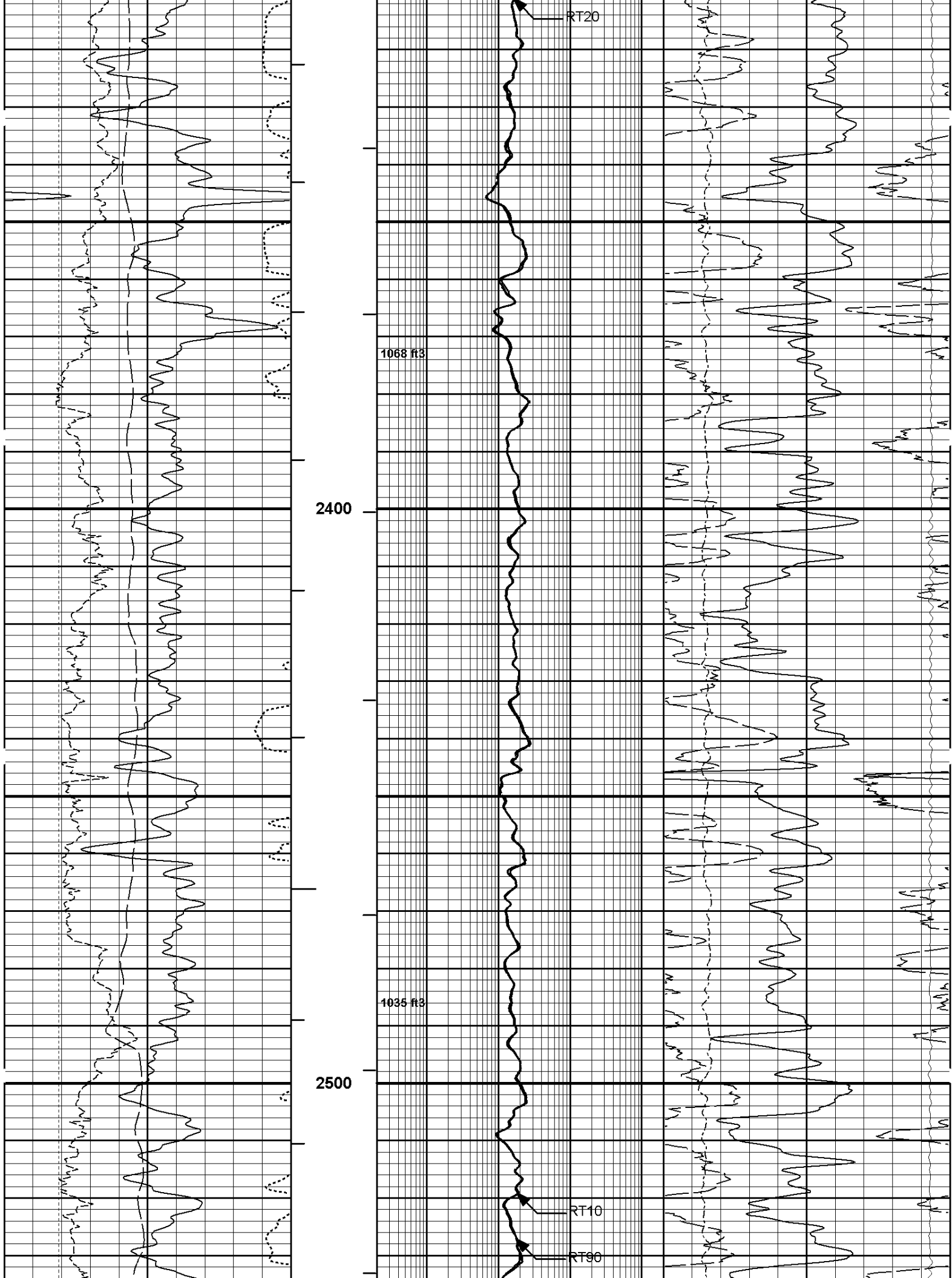


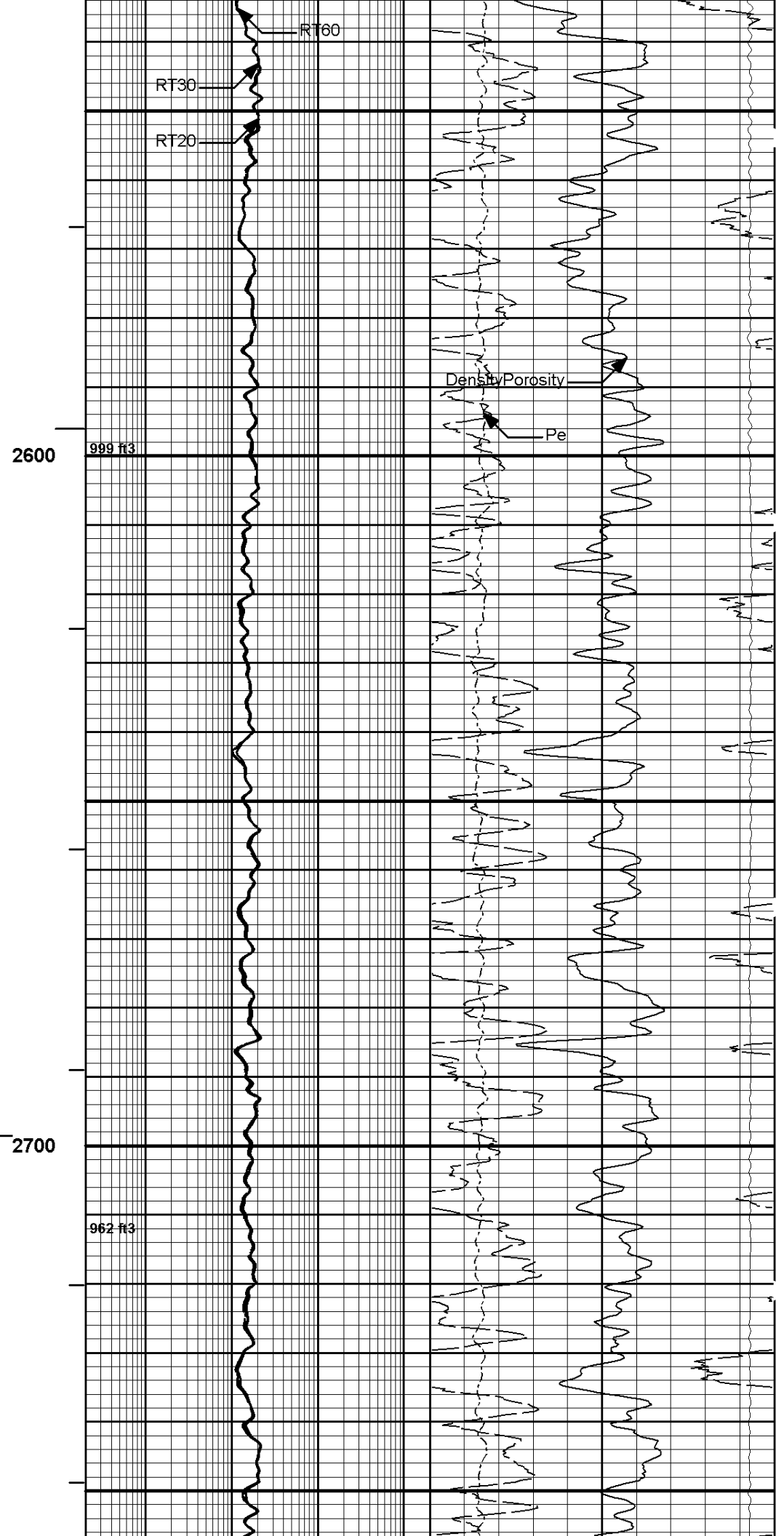
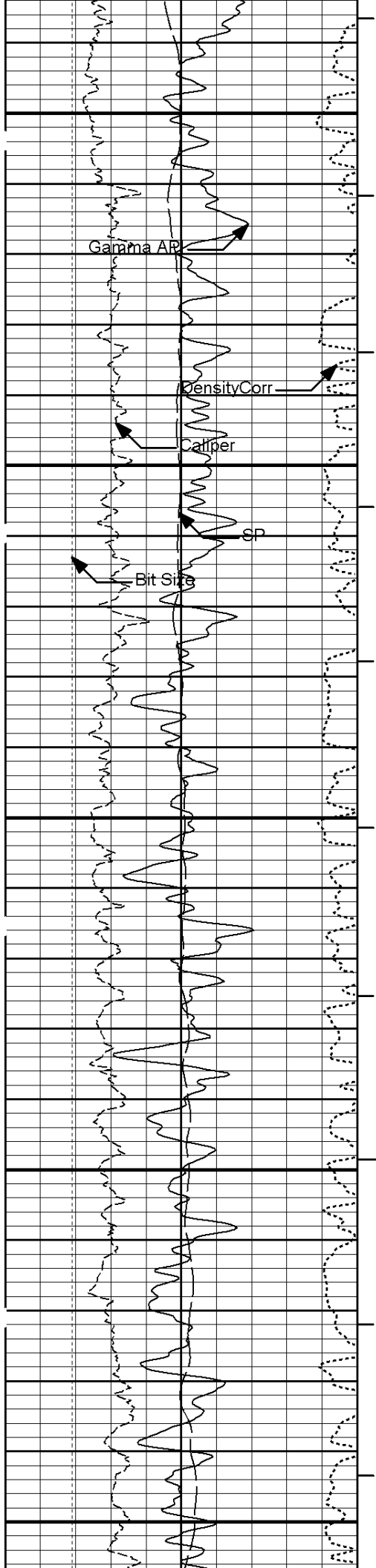


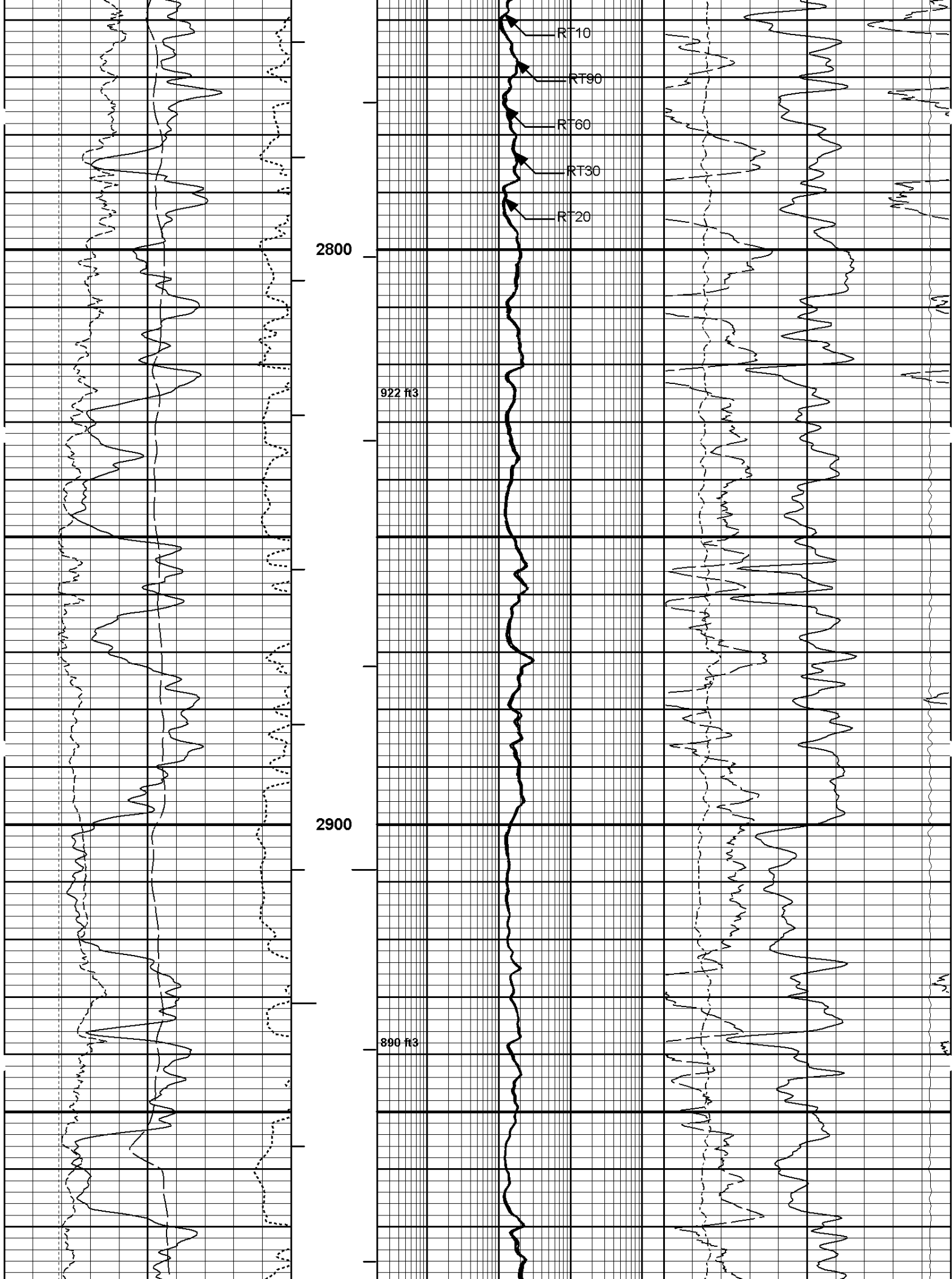


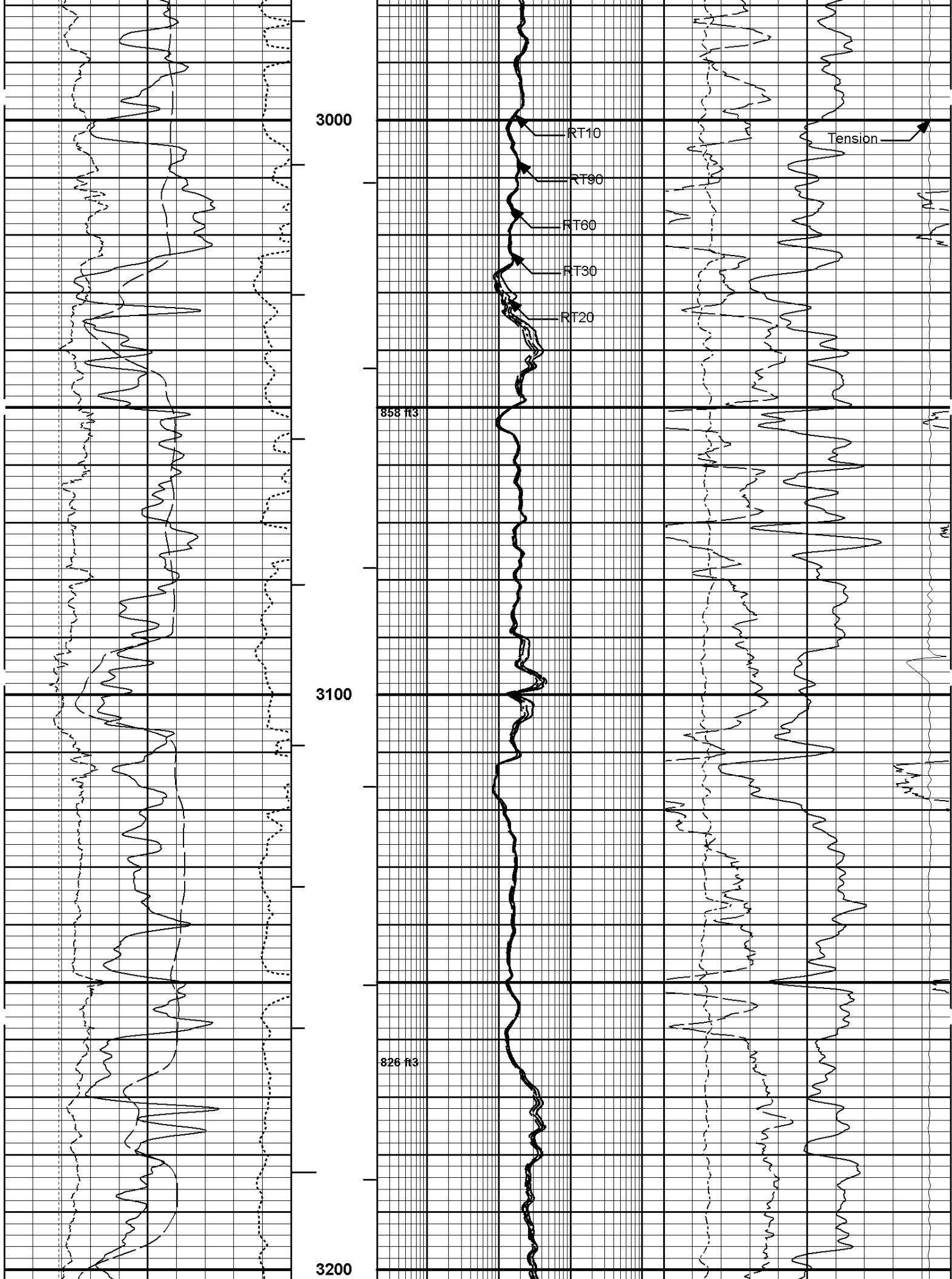


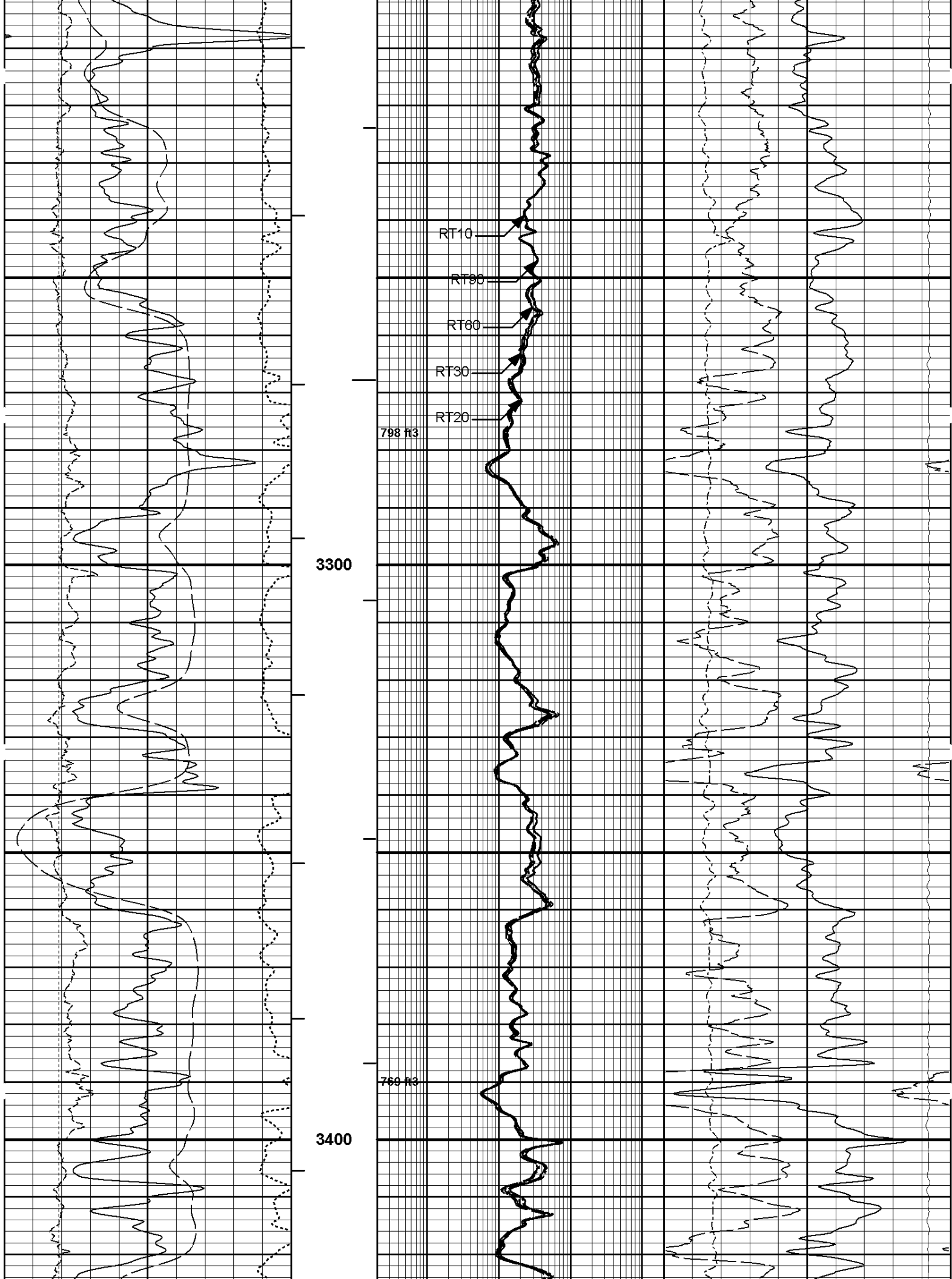


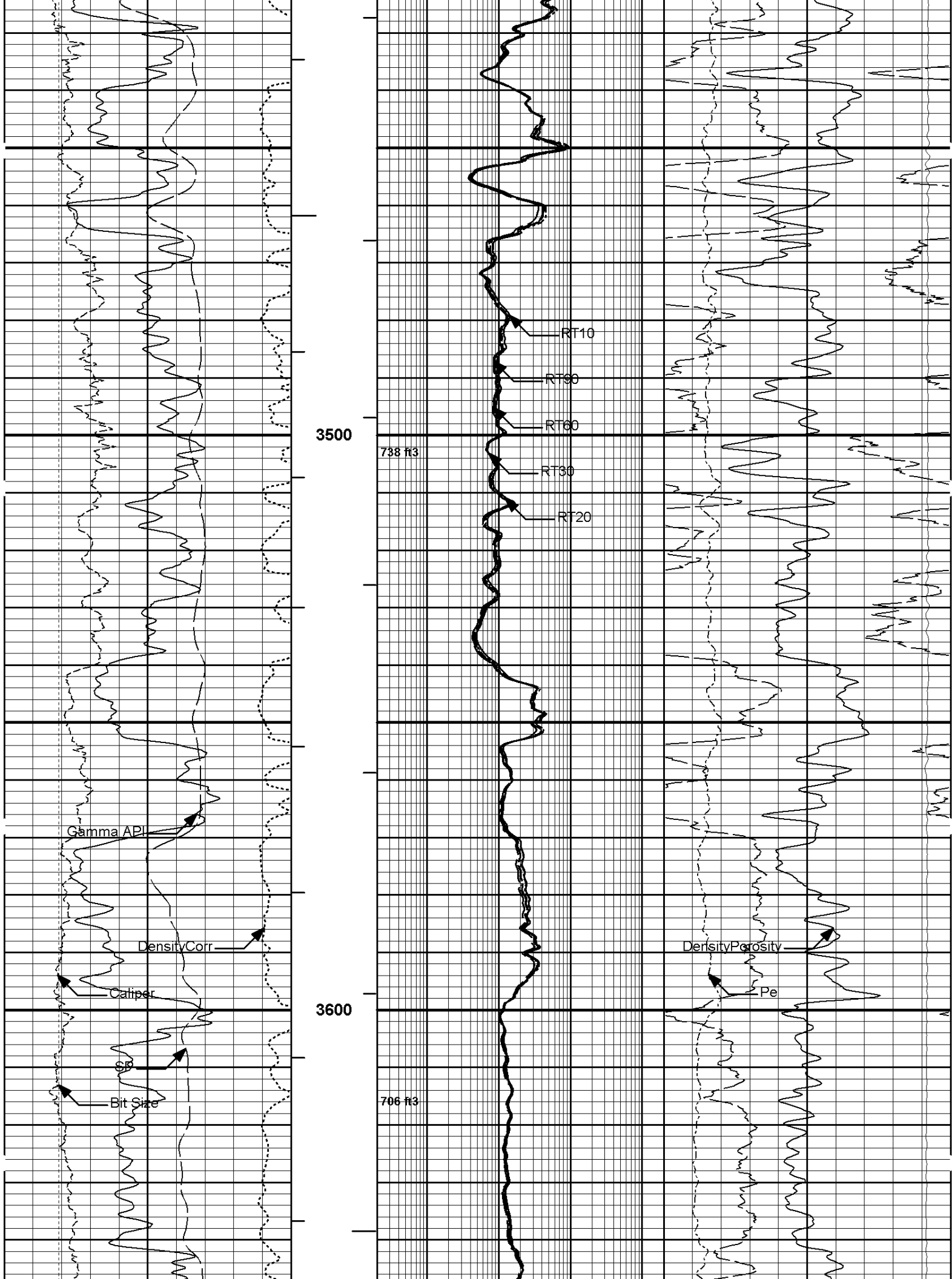


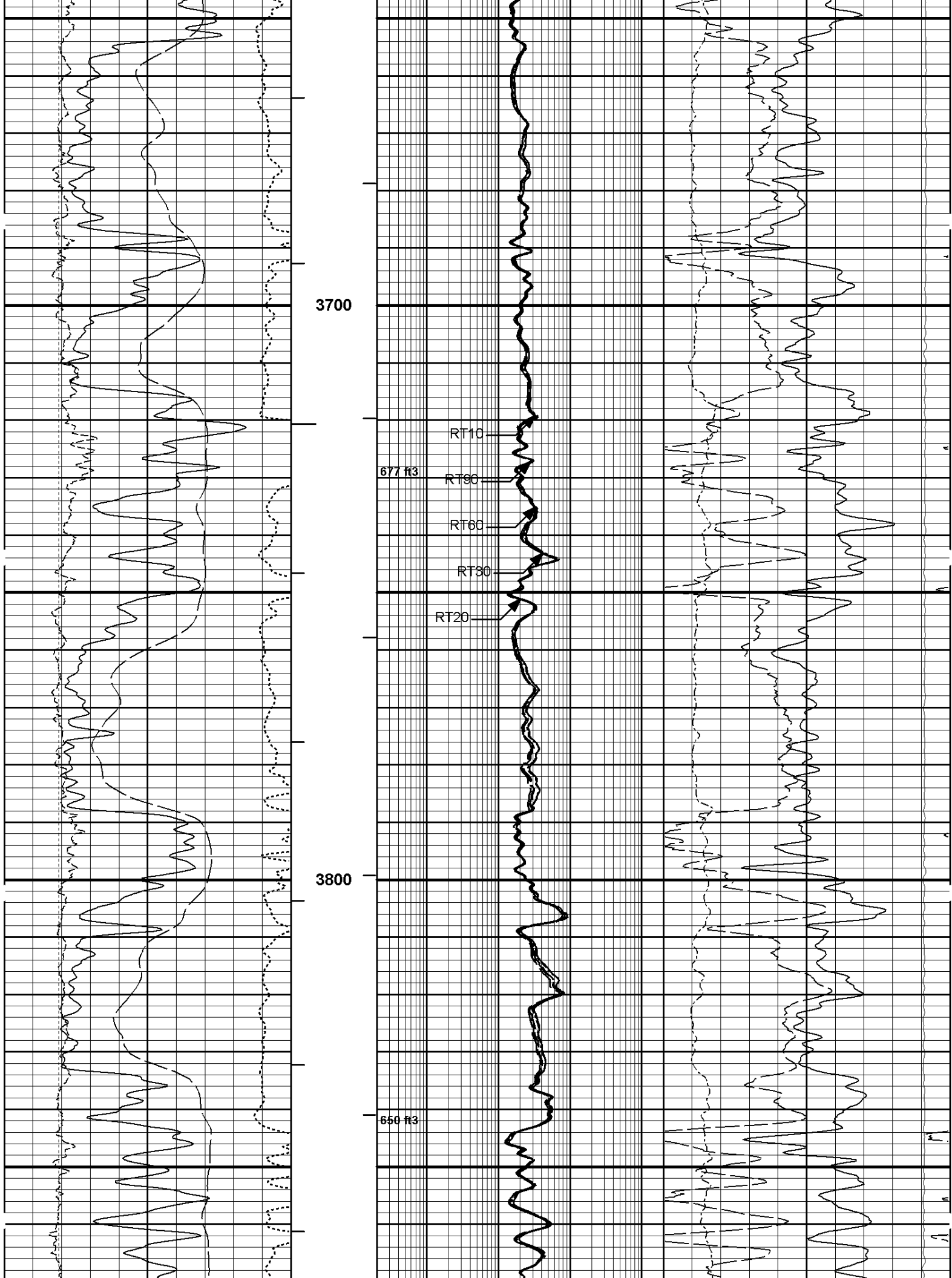


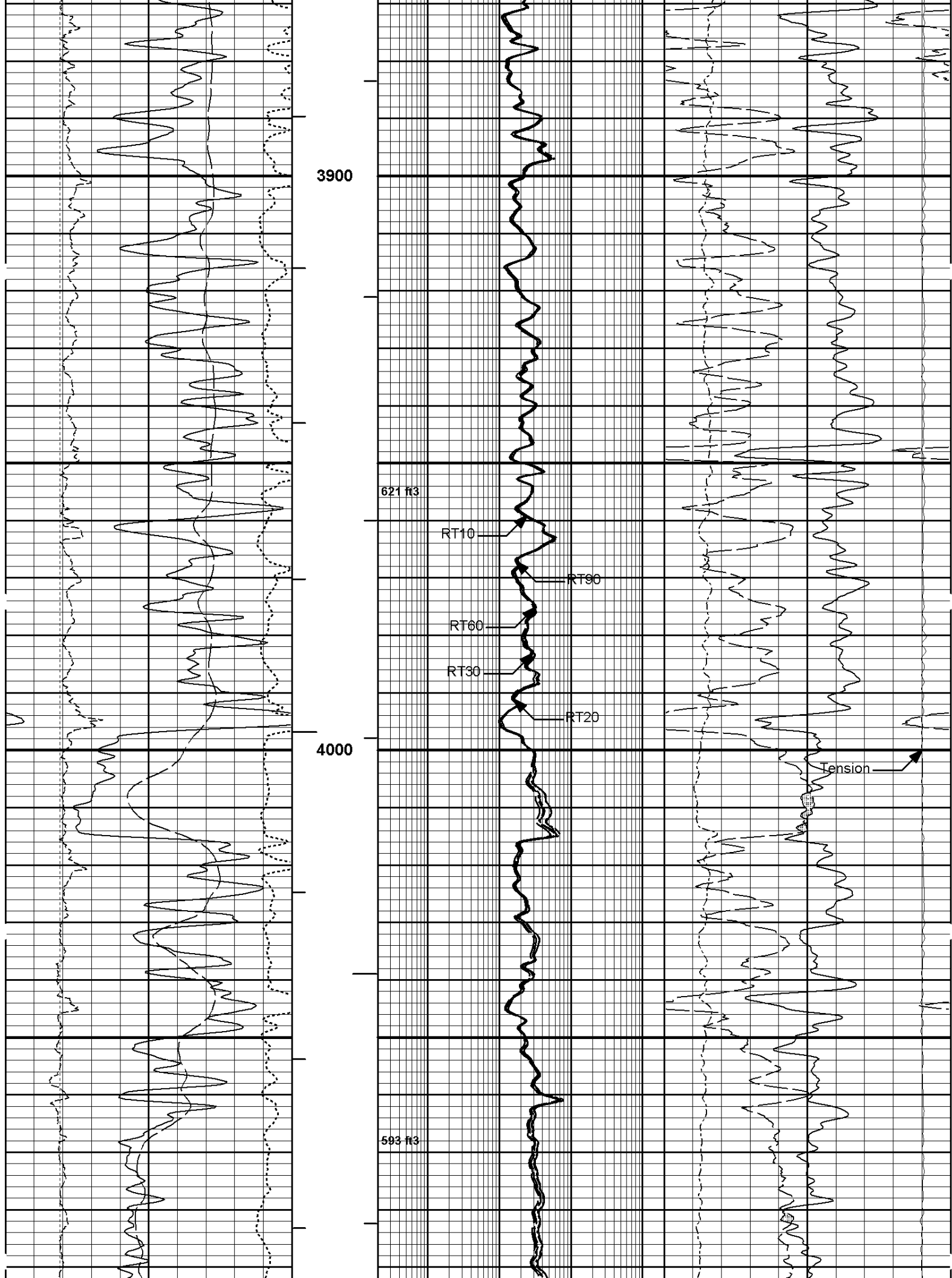


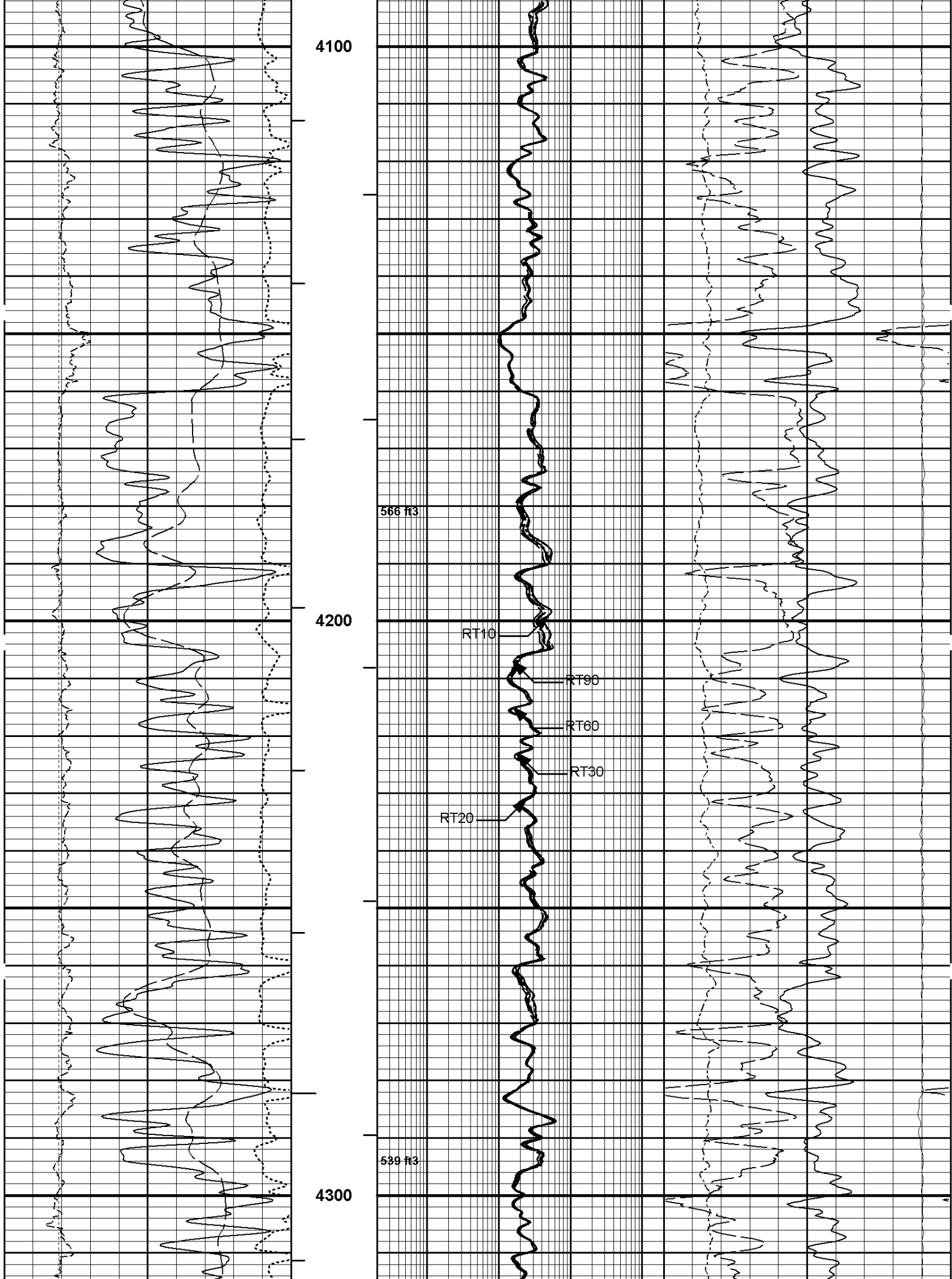


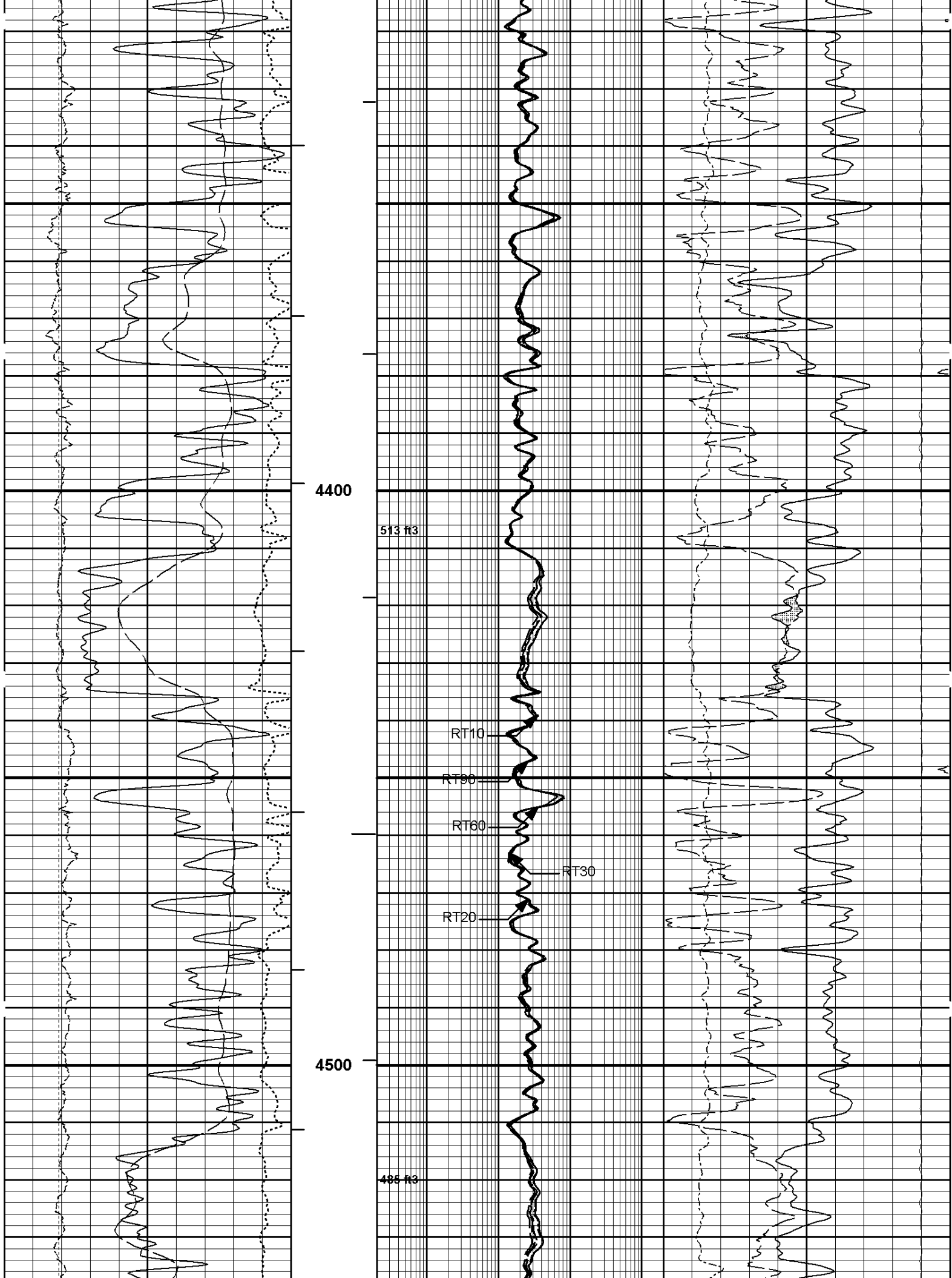


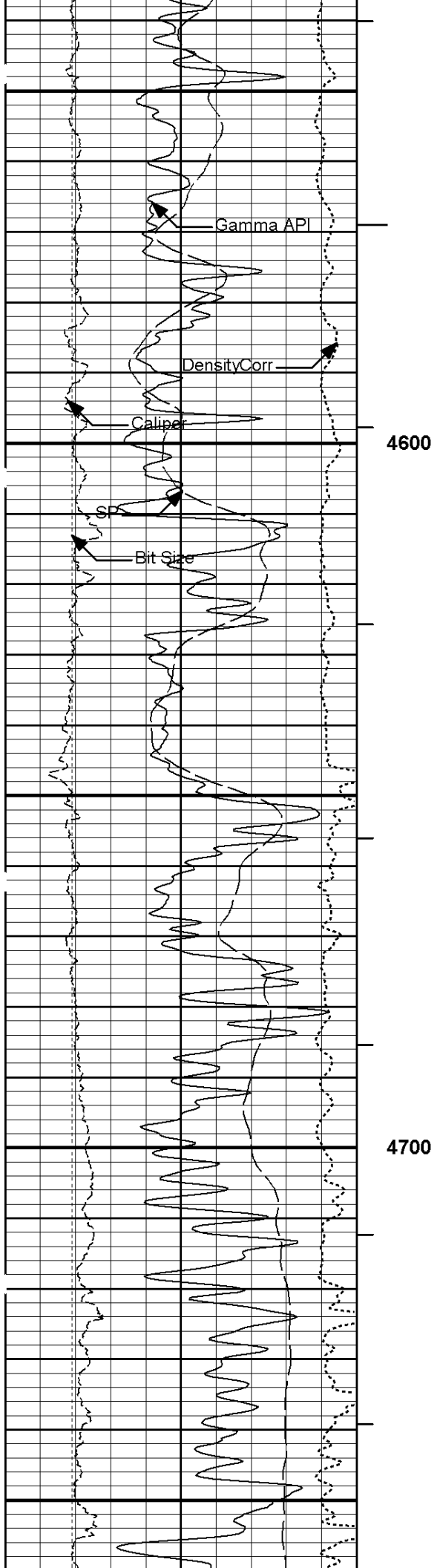




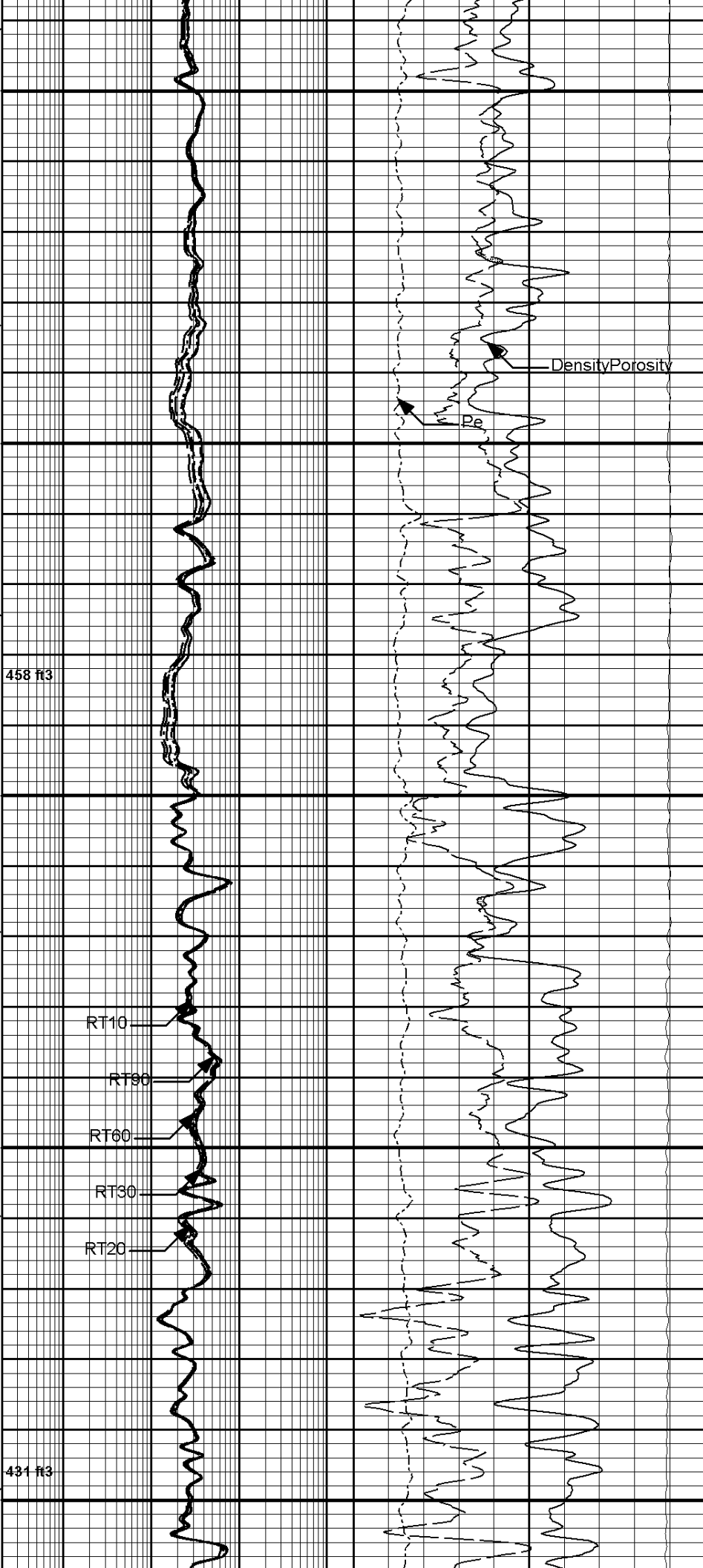








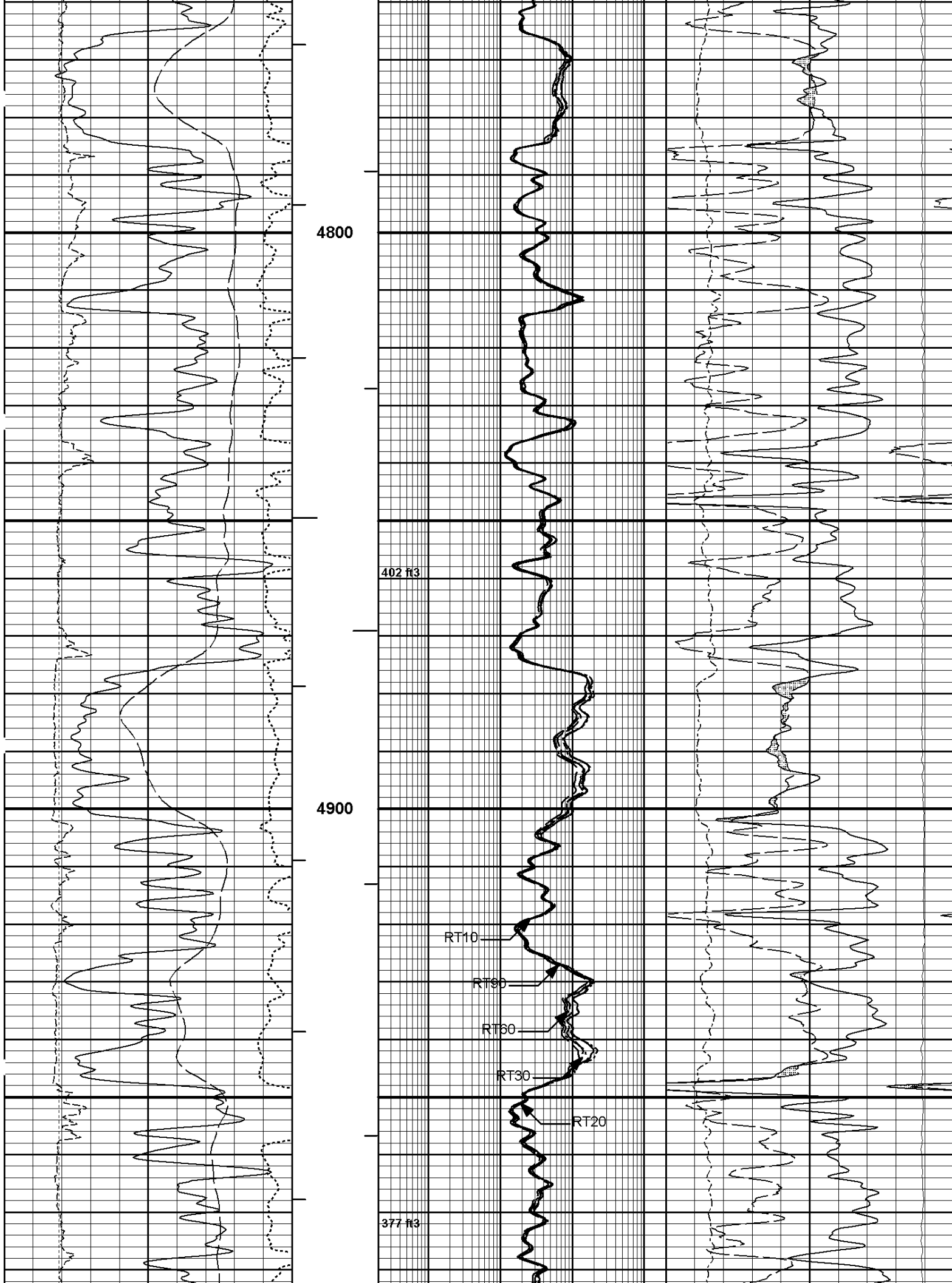
4600

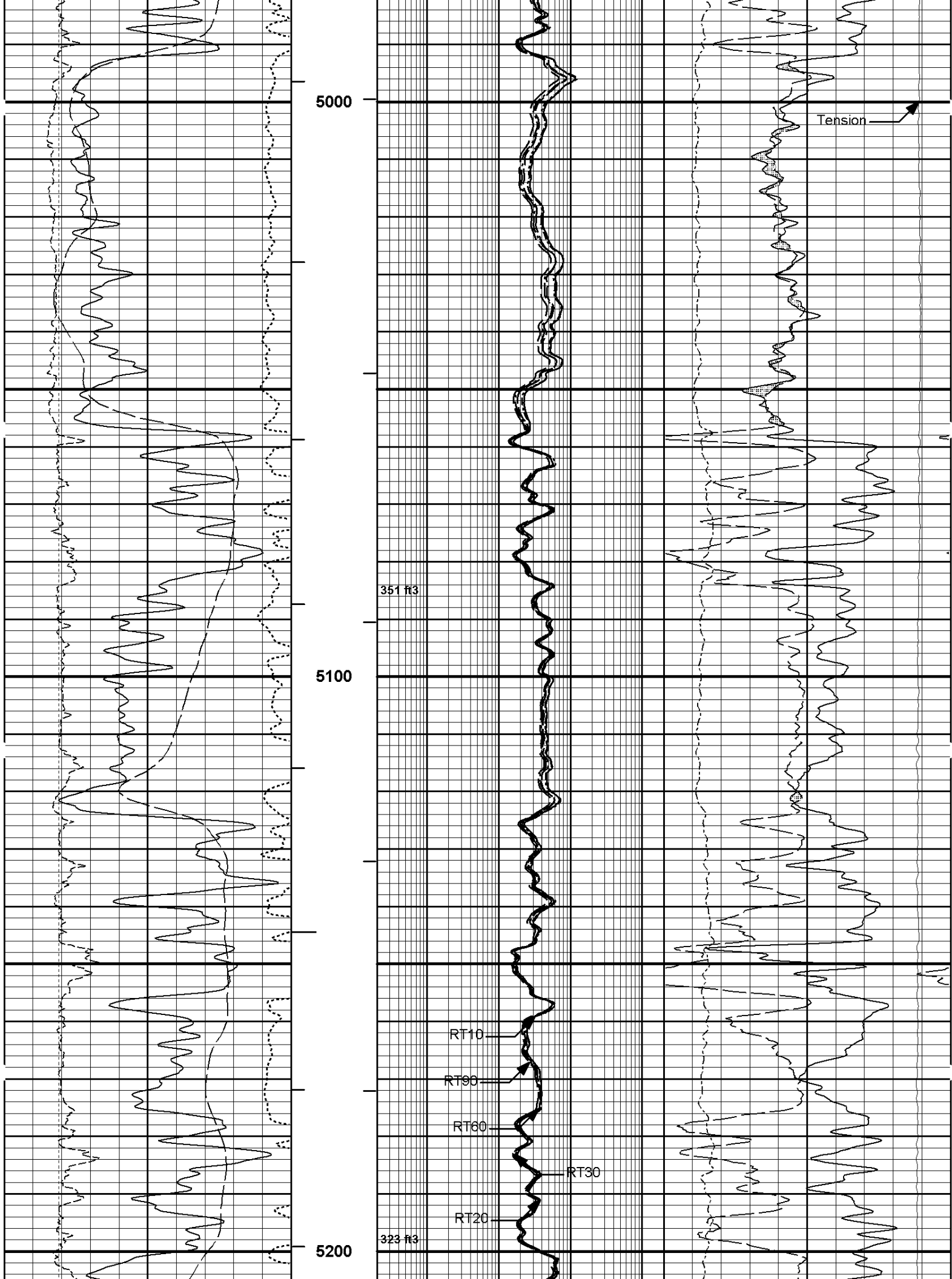


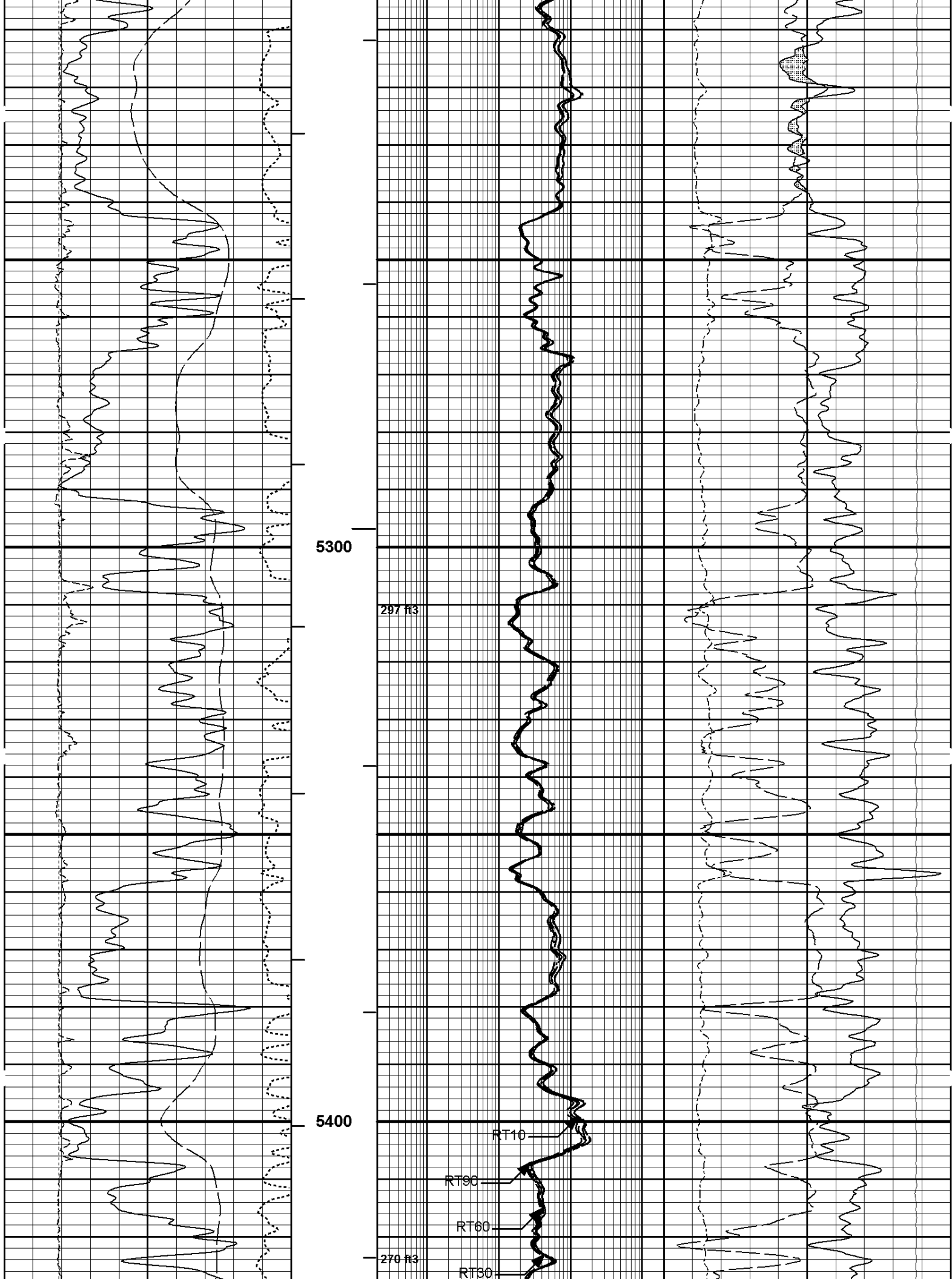
458 ft3

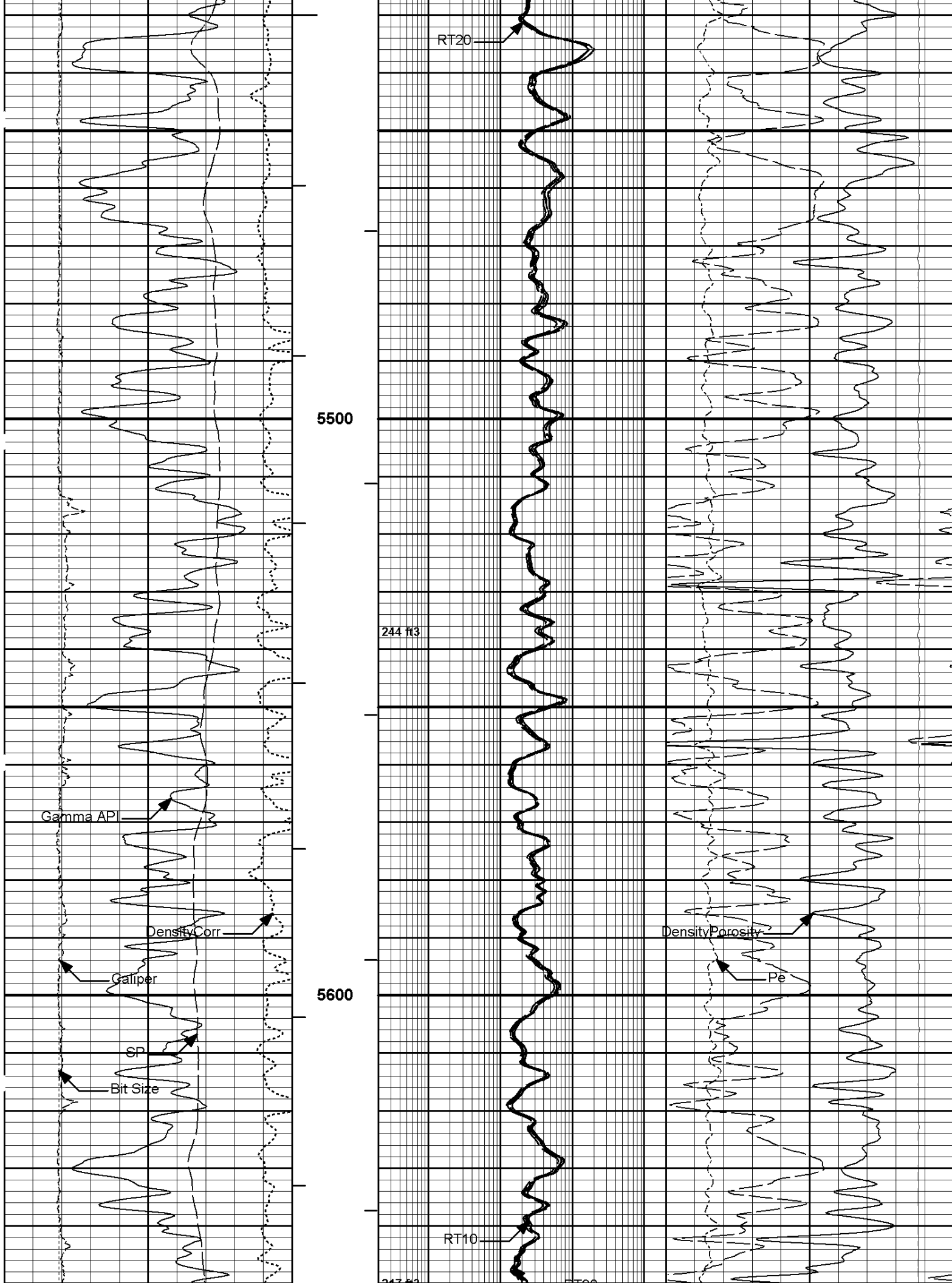
4700

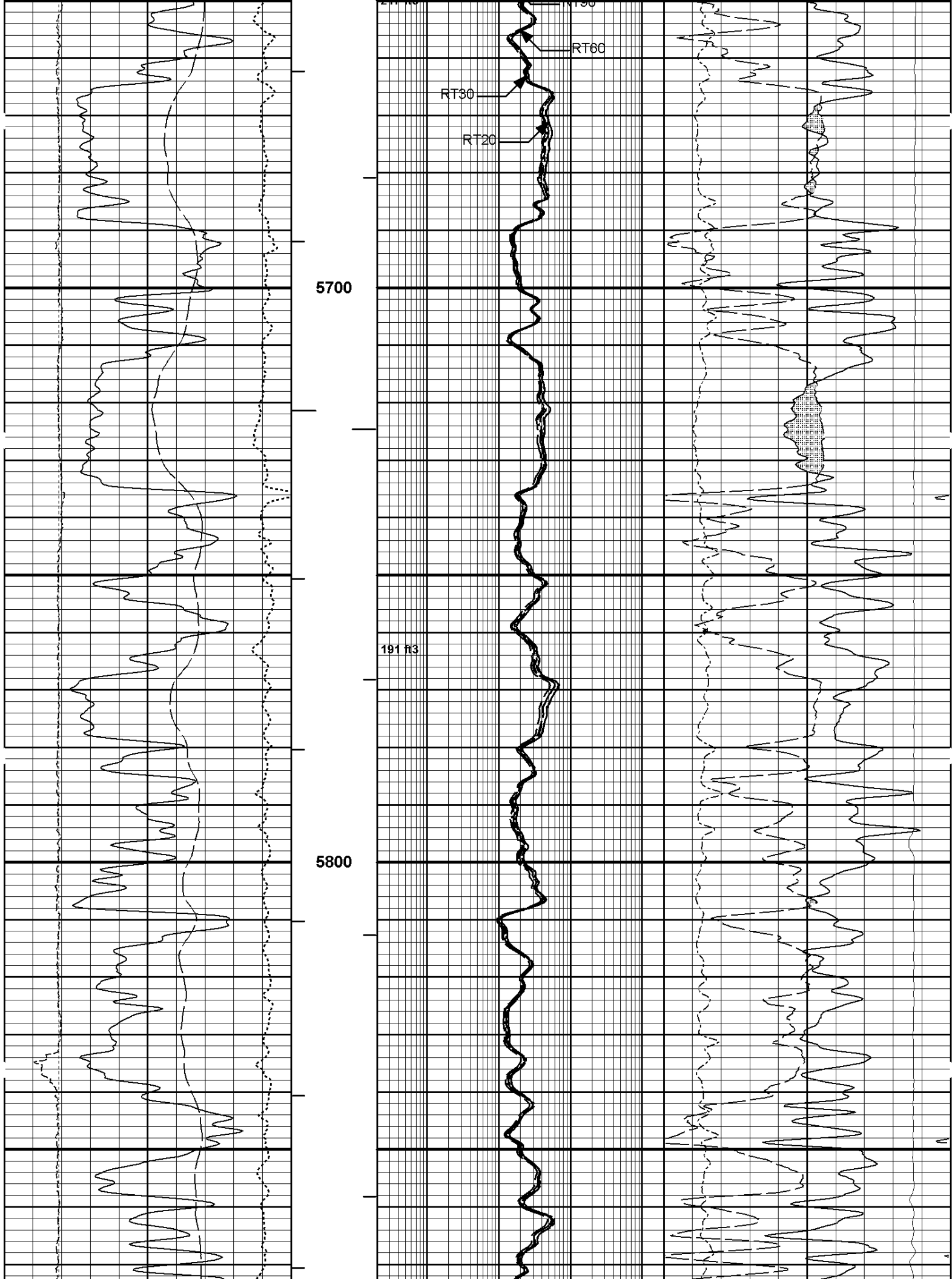
431 ft3

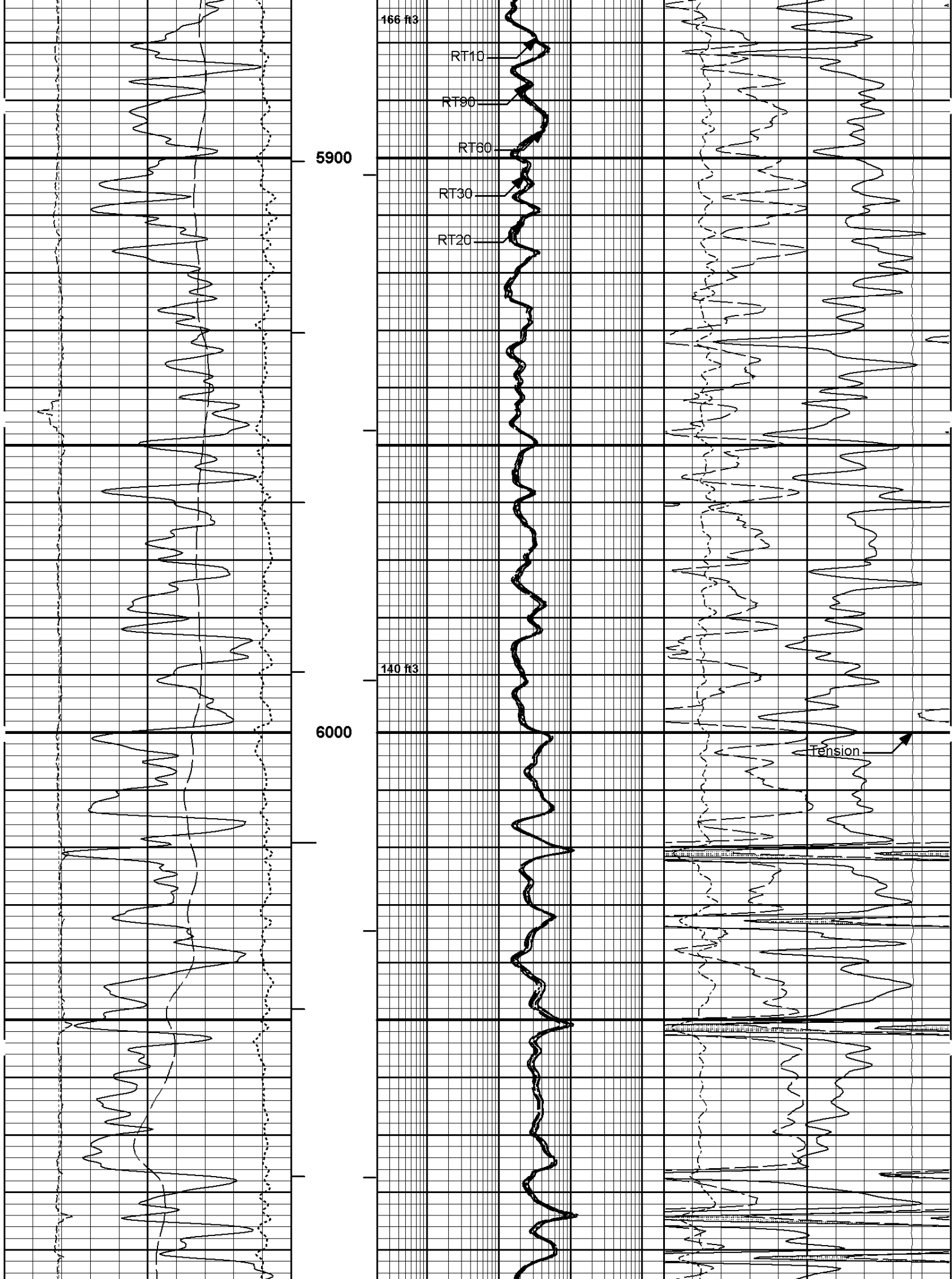


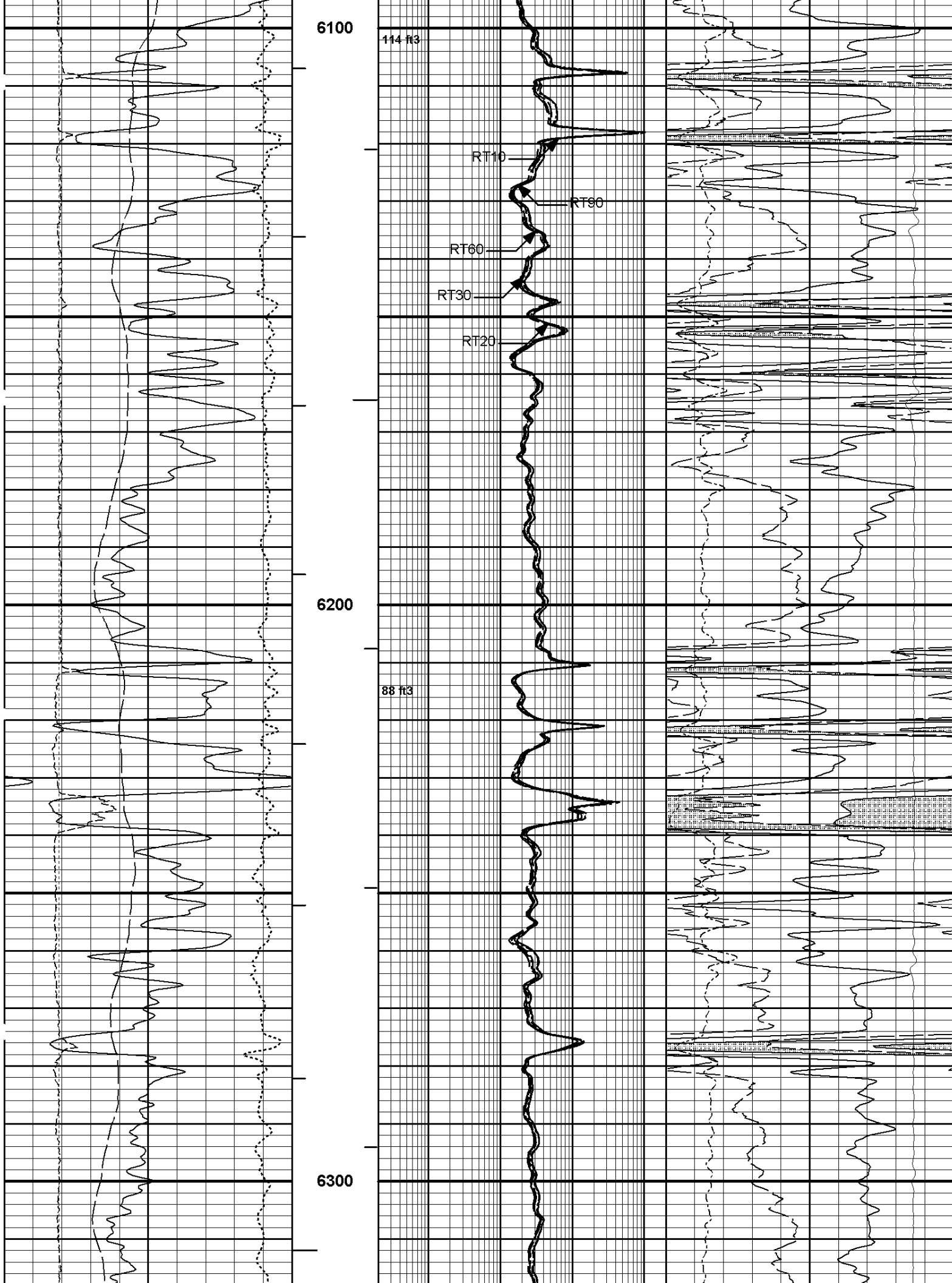


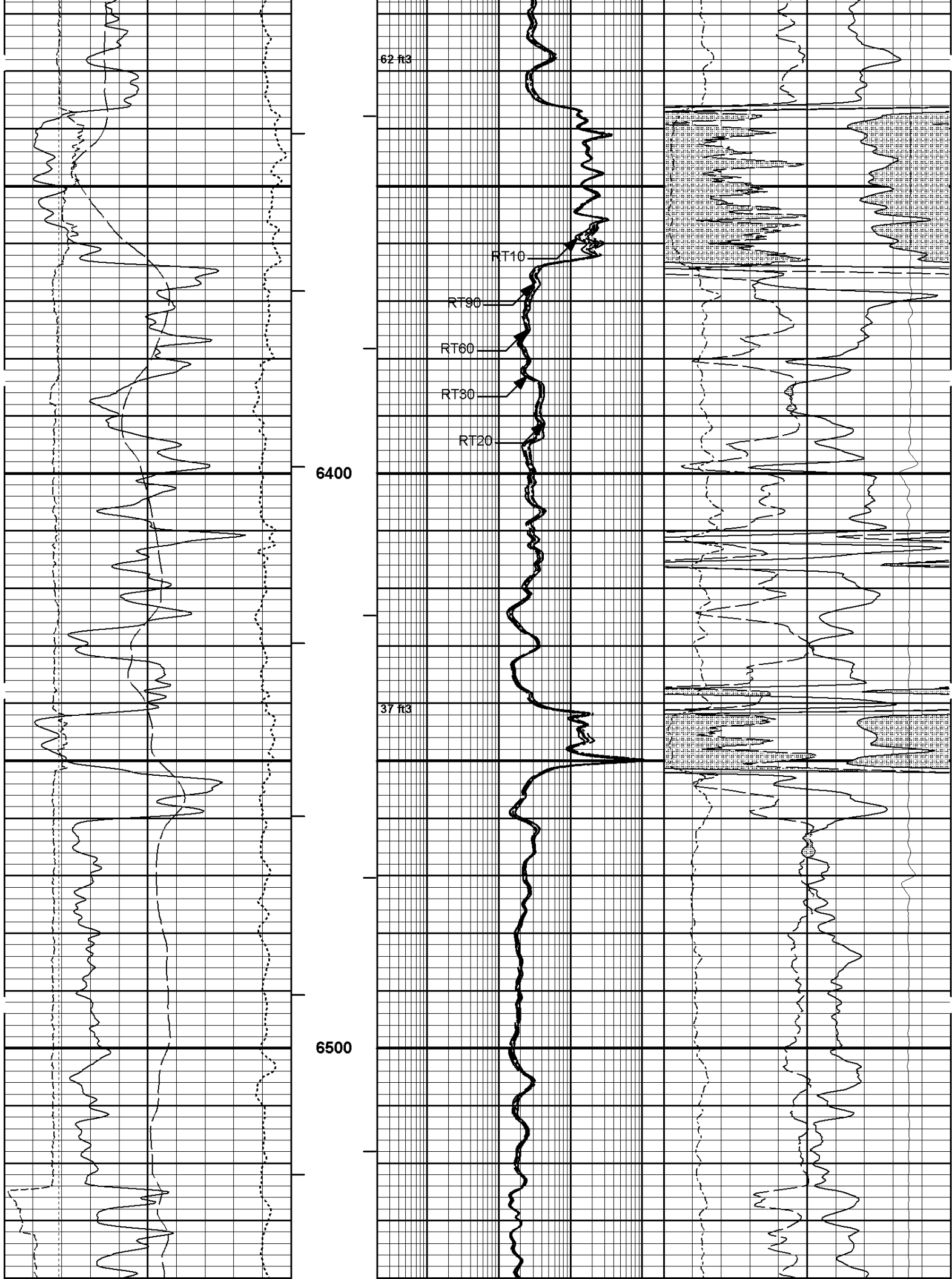


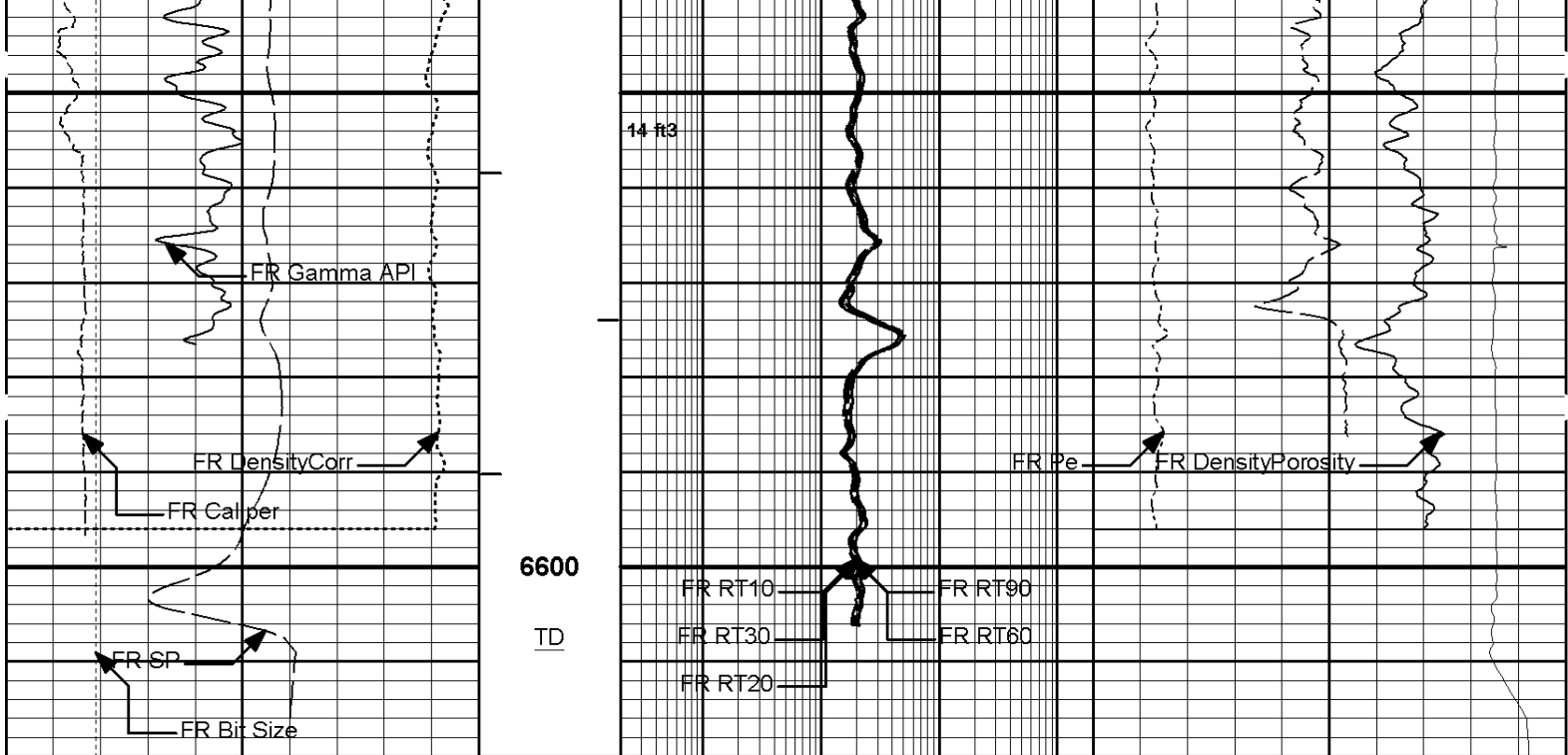












6	Bit Size	16	1 : 240 ft MD	0.2	RT10	2K	0	Pe	10
	inches				Ohm-m				
-0.9	DensityCorr	0.1	AHV	0.2	RT20	2K	30	DensityPorosity	-10
	gram per cc		ft3		Ohm-m			percent	
0	Gamma API	200	BHV	0.2	RT30	2K	30	Neutron Porosity	-10
	api		ft3		Ohm-m			percent	
6	Caliper	16		0.2	RT60	2K	21000	Tension	1000
	inches				Ohm-m			pounds	
	SP			0.2	RT90	2K			
	-]10[+				Ohm-m				

HALLIBURTON

Plot Time: 12-Mar-08 04:43:44
 Plot Range: 100 ft to 6620 ft
 Data: PXP_CURR_16_15B\Well Based*\n
 Plot File: \\\TRIPLE\IQ_COMPOSITE_HRI_5IN_RM

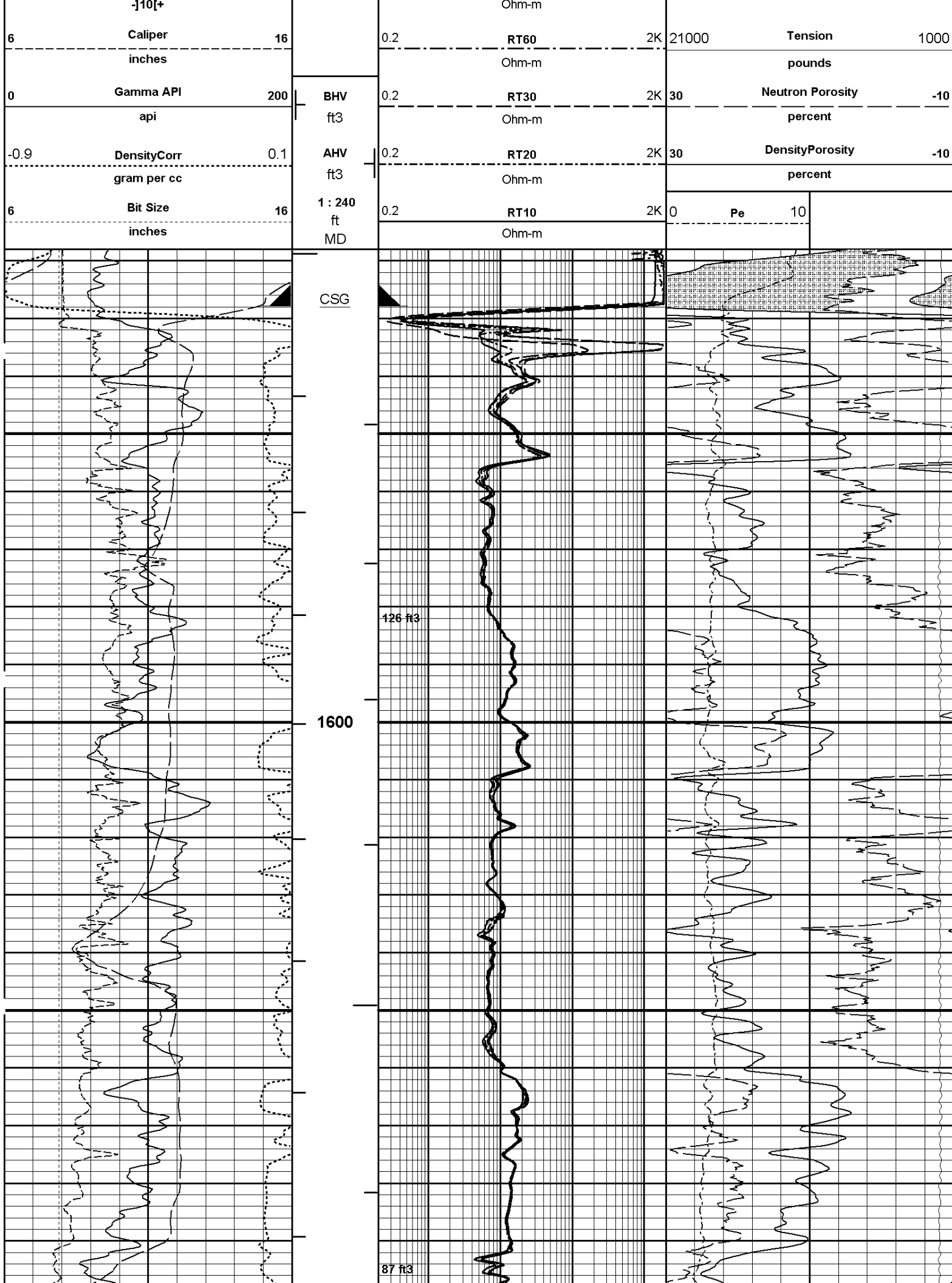
MAIN PASS 5" = 100'

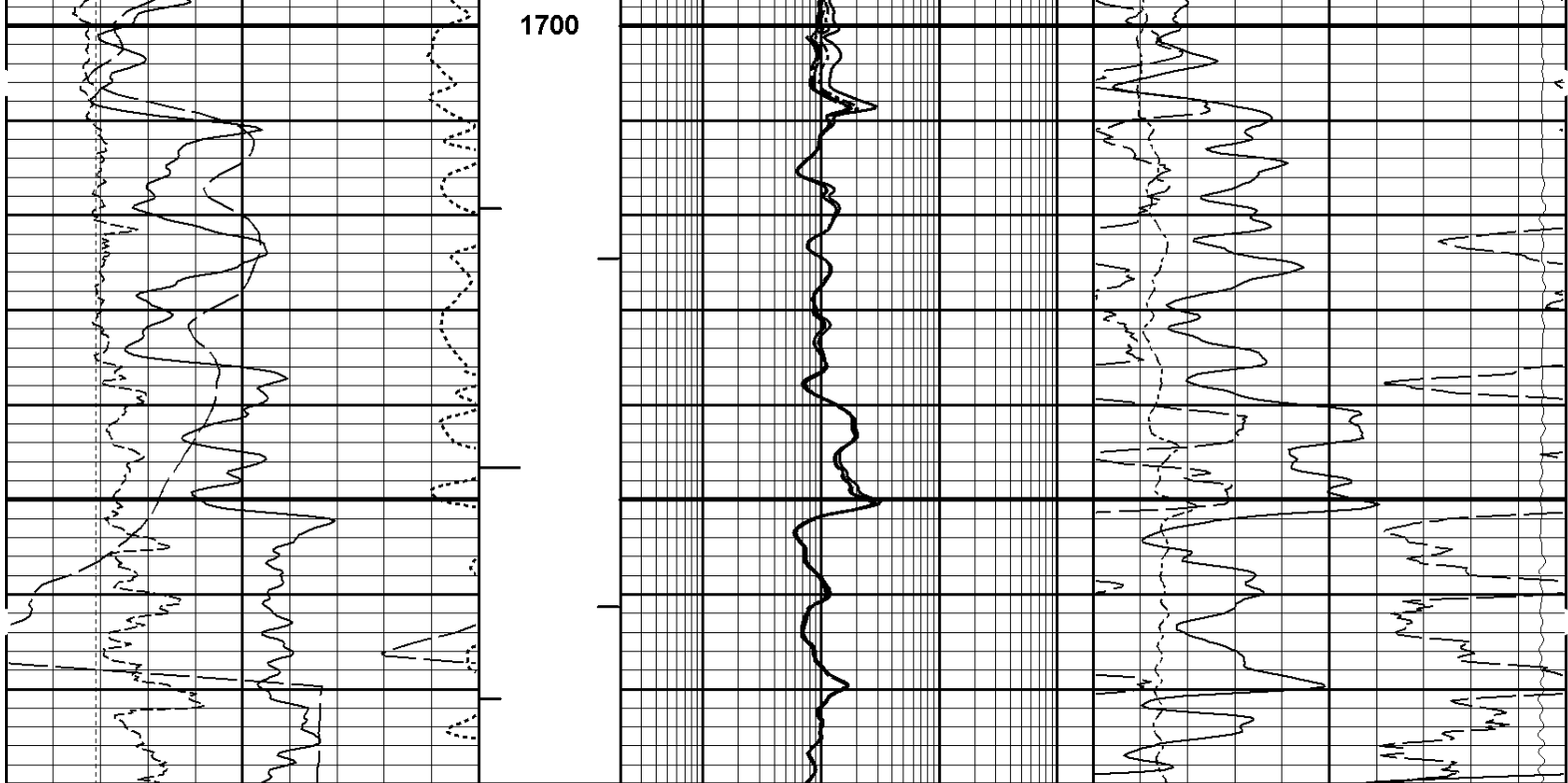
HALLIBURTON

Plot Time: 12-Mar-08 04:43:44
 Plot Range: 1518 ft to 1780 ft
 Data: PXP_CURR_16_15B\Well Based\DAQ-0001-002\
 Plot File: \\\TRIPLE\REPEAT

REPEAT PASS 5" = 100'

SP		0.2	RT90	2K
----	--	-----	------	----





6	Bit Size	16	1 : 240	0.2	RT10	2K	0	Pe	10
	inches		ft		Ohm-m				
			MD						
-0.9	DensityCorr	0.1	AHV	0.2	RT20	2K	30	DensityPorosity	-10
	gram per cc		ft3		Ohm-m			percent	
0	Gamma API	200	BHV	0.2	RT30	2K	30	Neutron Porosity	-10
	api		ft3		Ohm-m			percent	
6	Caliper	16		0.2	RT60	2K	21000	Tension	1000
	inches				Ohm-m			pounds	
	SP			0.2	RT90	2K			
	-]10[+				Ohm-m				

HALLIBURTON

Plot Time: 12-Mar-08 04:43:51
 Plot Range: 1518 ft to 1780 ft
 Data: PXP_CURR_16_15B\Well Based\DAQ-0001-002\
 Plot File: \\TRIPLE\REPEAT

REPEAT PASS 5" = 100'

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name: GTET - 11005602

Reference Calibration Date: 24-Feb-08 15:15:34

Engineer: M. LEE

Calibration Date: 24-Feb-08 15:18:16

Software Version: WL INSITE R2.0 (Build 22)

Calibration Version: 1

Calibrator Source S/N: MP051807-04

Calibrator API Reference: 239.00 api

Measurement	Measured	Calibrated	Units
Background	61.5	61.7	api
Background + Calibrator	299.7	300.7	api
Calibrator	239.2	239.0	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION			
Tool Name:	GTET - 11005602	Reference Calibration Date:	24-Feb-08 15:18:16
Engineer:	D. RENNER	Calibration Date:	11-Mar-08 03:14:24
Software Version:	WL INSITE R2.0 (Build 22)	Calibration Version:	1

Calibrator Source S/N: MP051807-04			
Calibrator API Reference: 239.00 api			
Field Verification	Shop	Field	Units
Background	61.7	63.8	api
Background + Calibrator	300.7	300.6	api
Calibrator	239.0	236.7	api
Shop	Field	Difference	Tolerance
239.0	236.7	2.3	+/- 9.0

NATURAL GAMMA RAY TOOL POST CALIBRATION			
Tool Name:	GTET - 11005602	Reference Calibration Date:	11-Mar-08 03:14:24
Engineer:	M. CARPENTER	Calibration Date:	12-Mar-08 04:30:47
Software Version:	WL INSITE R2.0 (Build 22)	Calibration Version:	1

Calibrator Source S/N: MP051807-04				
Calibrator API Reference: 239.00 api				
Post Verification		Field	Post	Units
Background		63.8	33.6	api
Background + Calibrator		300.6	274.4	api
Calibrator		236.7	240.8	api
Shop	Field	Post	Difference	Tolerance
239.0	236.7	240.8	-4.1	+/- 9.0

DUAL SPACED NEUTRON SHOP CALIBRATION			
Tool Name:	DSNT - 10993888	Reference Calibration Date:	20-Nov-07 10:45:40
Engineer:	M. LEE	Calibration Date:	19-Feb-08 09:39:27
Software Version:	WL INSITE R2.0 (Build 22)	Calibration Version:	1

Logging Source S/N: DSN_388			
Tank Serial Number: GJ_TANK			
Reference value assigned to Tank: 52.750			
Snow Block S/N: TRUCK_3			
Calibration Tank Water Temperature: 56.70 degF			
Min. Tool Housing Outside Diameter: 3.624 in			

CALIBRATION CONSTANTS			
Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.962	0.960	0.900 - 1.100

WATER TANK SUMMARY (Horizontal Water Tank)				
Measurement	Current Reading (Previous Coef.)	Calibrated (New Coef.)	Change	Control Limit On Change
Porosity (decip):	0.2178	0.2169	0.0009	+/- 0.0020
Calibration Factor:	0.99	0.99	0.000	+/- 0.010

VERIFIER

Measurement	Value	Control Limit
Snow-Block Porosity (decg):	0.0731	0.02000 - 0.09000

PASS/FAIL SUMMARY

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

DUAL SPACED NEUTRON FIELD CALIBRATION

Tool Name:	DSNT - 10993888	Reference Calibration Date:	19-Feb-08 09:39:27
Engineer:	D. RENNER	Calibration Date:	11-Mar-08 03:23:22
Software Version:	WL INSITE R2.0 (Build 22)	Calibration Version:	1

Logging Source S/N: DSN_388
Snow Block S/N: TRUCK_3

NEUTRON FIELD-CHECK SUMMARY

	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decg):	0.0731	0.0674	-0.0057	+/- 0.0150

PASS/FAIL SUMMARY

Block Change Check:	Passed
Snow Block Stat Check:	Passed
Temperature Check:	Passed

DUAL SPACED NEUTRON POST CALIBRATION

Tool Name:	DSNT - 10993888	Reference Calibration Date:	11-Mar-08 03:23:22
Engineer:	M. CARPENTER	Calibration Date:	12-Mar-08 04:41:13
Software Version:	WL INSITE R2.0 (Build 22)	Calibration Version:	1

Logging Source S/N: DSN_388
Snow Block S/N: TRUCK_3

NEUTRON POST-CHECK SUMMARY

	Field Value	Post Value	Difference	Control Limit On Change
Snow-Block Porosity (decg):	0.0674	0.0606	-0.0067	+/- 0.0150

PASS/FAIL SUMMARY

Block Change Check:	Passed
Snow Block Stat Check:	Passed
Temperature Check:	Passed

SPECTRAL DENSITY SHOP CALIBRATION

Tool Name:	SDLT - 10951314	Reference Calibration Date:	24-Feb-08 14:35:59
Engineer:	M. LEE	Calibration Date:	24-Feb-08 14:56:13
Software Version:	WL INSITE R2.0 (Build 22)	Calibration Version:	1

Logging Source S/N: 5123 GW
Aluminum Block S/N: GJ_ALUMINIUM_BLOCK Density: 2.606g/cc
Magnesium Block S/N: GJ_MAGNESIUM_BLOCK Density: 1.684g/cc

DENSITY CALIBRATION SUMMARY

Measurement	Previous Value	New Value	Control Limit
-------------	----------------	-----------	---------------

Near Bar Gain	1.0121	1.0101	0.90 - 1.10
Near Dens Gain	0.9900	0.9876	0.90 - 1.10
Near Peak Gain	0.9574	0.9543	0.90 - 1.10
Near Lith Gain	0.9031	0.9035	0.90 - 1.10
Far Bar Gain	1.0075	1.0059	0.90 - 1.10
Far Dens Gain	0.9930	0.9921	0.90 - 1.10
Far Peak Gain	0.9799	0.9823	0.90 - 1.10
Far Lith Gain	0.9555	0.9566	0.90 - 1.10
Near Bar Offset	0.0764	0.0931	NONE
Near Dens Offset	0.2566	0.2800	NONE
Near Peak Offset	0.5297	0.5570	NONE
Near Lith Offset	0.9676	0.9636	NONE
Far Bar Offset	0.0533	0.0691	NONE
Far Dens Offset	0.1686	0.1780	NONE
Far Peak Offset	0.2614	0.2407	NONE
Far Lith Offset	0.4299	0.4227	NONE
Near Bar Background	1008.09	1011.96	700 - 1450
Near Dens Background	330.28	331.28	230 - 480
Near Peak Background	143.85	144.60	100 - 210
Near Lith Background	177.18	176.66	125 - 260
Far Bar Background	618.19	621.23	450 - 900
Far Dens Background	238.48	241.44	175 - 345
Far Peak Background	94.82	94.46	70 - 140
Far Lith Background	98.85	98.10	75 - 145

CALIBRATION BLOCK SUMMARY

Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.685	1.684	-0.001	+/- 0.015
Pe	2.598	2.594	-0.004	+/- 0.150
ALUMINUM				
Density (g/cc)	2.605	2.606	0.001	+/- 0.01500
Pe	3.101	3.100	-0.001	+/- 0.150

TOOL SUMMARY

Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	0.0006	+/- 0.0110	0.0008	+/- 0.0140
Magnesium Block	-0.0008	+/- 0.0110	-0.0010	+/- 0.0140
Aluminum Block	0.0003	+/- 0.0110	-0.0006	+/- 0.0140
Resolution	9.74	6.00 - 11.50	9.41	6.00 - 11.50
Internal Verifier(B+D+P+L)	1664	1200 - 2700	1055	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

SPECTRAL DENSITY FIELD CHECK

Tool Name: SDLT - 10951314

Reference Calibration Date: 24-Feb-08 14:56:13

Engineer: D. RENNER

Calibration Date: 11-Mar-08 03:33:14

Software Version: WL INSITE R2.0 (Build 22)

Calibration Version: 1

Aluminum Block S/N: GJ_ALUMINIUM_BLOCK

Density: 2.606g/cc

Magnesium Block S/N: GJ_MAGNESIUM_BLOCK

Density: 1.684g/cc

Pad Temperature: 57.6 degF

DENSITY FIELD CALIBRATION SUMMARY

Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1664.498	1663.320	-1.178	16.386
Far (B+D+P+L) cps	1055.230	1056.512	1.282	17.251
Near Resolution	9.74	9.78	0.040	0.50
Far Resolution	9.56	9.41	0.150	1.00

PASS/FAIL SUMMARY

Bkg Quality Check:

Passed

Bkg Resolution Check:

Passed

Bkg Verification Check:

Passed

SPECTRAL DENSITY POST CHECK

Tool Name: SDLT - 10951314

Reference Calibration Date: 11-Mar-08 03:33:14

Engineer: M. CARPENTER

Calibration Date: 12-Mar-08 04:30:41

Software Version: WL INSITE R2.0 (Build 22)

Calibration Version: 1

Aluminum Block S/N: GJ_ALUMINIUM_BLOCK

Density: 2.606g/cc

Magnesium Block S/N: GJ_MAGNESIUM_BLOCK

Density: 1.684g/cc

Pad Temperature: 54.1 degF

DENSITY POST CALIBRATION SUMMARY

Measurement	Field	Post	Change	Control Limit +/-
Near (B+D+P+L) cps	1663.320	1666.248	2.928	16.386
Far (B+D+P+L) cps	1056.512	1061.496	4.984	17.251
Near Resolution	9.78	9.94	0.160	0.50
Far Resolution	9.97	9.56	0.410	1.00

PASS/FAIL SUMMARY

Bkg Quality Check:

Passed

Bkg Resolution Check:

Passed

Bkg Verification Check:

Passed

DENSITY CALIPER SHOP CALIBRATION

Tool Name: SDLT - 10951314

Reference Calibration Date: 01-Jan-70 00:00:00

Engineer: M. LEE

Calibration Date: 24-Feb-08 15:32:45

Software Version: WL INSITE R2.0 (Build 22)

Calibration Version: 1

CALIBRATION COEFFICIENTS

Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-1521.58	-1521.58	-7000.00 - -1000.00
Pad Gain	0.0003762	0.0003762	0.000200 - 0.000600
Arm Offset	-1984.80	-1984.80	-5000.00 - 3000.00

Arm Gain	0.0005212	0.0005212	0.000300 - 0.000700
Arm Power	-0.000002746	-0.000002746	-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	0.0000	+/- 0.200
Medium Ring (in)	3.75	3.75	0.0000	+/- 0.200
RING DIAMETER:				
Small Ring (in)	6.50	6.50	0.0000	+/- 0.200
Medium Ring (in)	8.25	8.25	0.0000	+/- 0.200
Large Ring (in)	15.00	15.00	0.0000	+/- 0.200

PASS/FAIL SUMMARY

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

PASS/FAIL SUMMARY

Calibration-Coefficients Range Check:	Passed
---------------------------------------	--------

SDLT CALIPER FIELD CALIBRATION

Tool Name:	SDLT - 10951314	Reference Calibration Date:	24-Feb-08 15:32:45
Engineer:	D. RENNER	Calibration Date:	11-Mar-08 03:19:53
Software Version:	WL INSITE R2.0 (Build 22)	Calibration Version:	1

MEASURED CALIPER VALUES

Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.69	-0.06	+/- 0.10
Ring Diameter	8.25	8.13	-0.12	+/- 0.15

PASS/FAIL SUMMARY

Pad Extension Check:	Passed
Diameter Check:	Passed

SDLT CALIPER POST CALIBRATION

Tool Name:	SDLT - 10951314	Reference Calibration Date:	11-Mar-08 03:19:53
Engineer:	M. CARPENTER	Calibration Date:	12-Mar-08 04:36:22
Software Version:	WL INSITE R2.0 (Build 22)	Calibration Version:	1

MEASURED CALIPER VALUES

Measurement	Field	Post	Change	Control Limit On New Value
Pad Extension	3.69	3.78	0.10	+/- 0.10
Ring Diameter	8.13	8.11	-0.02	+/- 0.15

PASS/FAIL SUMMARY

Pad Extension Check:	Passed
Diameter Check:	Passed

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION

Tool Name:	ACRt - ODESSA-e895-s200	Reference Calibration Date:	02-Mar-08 12:23:05
Engineer:	M. MAZUREK	Calibration Date:	02-Mar-08 12:34:59
Software Version:	WL INSITE R2.0 (Build 22)	Calibration Version:	1

TYPICAL GAIN RANGE									
Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	0.9399	1.05	0.95	0.9367	1.05	0.95	0.9332	1.05
A2 (50")	0.95	0.9294	1.05	0.95	0.9276	1.05	0.95	0.9242	1.05
A3 (29")	0.95	0.9263	1.05	0.95	0.9263	1.05	0.95	0.9263	1.05
A4 (17")	0.95	0.9983	1.05	0.95	0.9980	1.05	0.95	0.9972	1.05
A5 (10")	N/A	N/A	N/A	0.95	0.9877	1.05	0.95	0.9843	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9723	1.05	0.95	0.9705	1.05

TYPICAL SONDE OFFSET RANGE									
Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	-3	-1.496	-1	-6	-3.837	-2	-6	-4.870	-2
A2 (50")	-6	-4.104	-2	-6	-4.495	-2	-6	-4.188	-2
A3 (29")	-27	-18.372	-9	-9	-4.486	-3	-9	-3.355	-3
A4 (17")	-180	-109.705	-60	-45	-33.650	-15	-39	-25.989	-13
A5 (10")	N/A	N/A	N/A	-150	-76.975	-50	-90	-38.105	-30
A6 (6")	N/A	N/A	N/A	175	295.896	525	90	153.386	270

TRANSMITTER CURRENT GAIN					R-MUD VERIFICATION			
Signal	Lower	R	Upper		Signal	Lower (ohm-m)	Measured (ohmm)	Upper (ohm-m)
12K	0.75	0.8571	1.4		Mud Cell	0.95	1.001	1.05
36K	1.0	1.3126	2.4					
72K	1.25	1.5484	2.5					

CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11005602						
Gamma Ray Calibrator	239.0	236.7	240.8	-4.1	+/- 9.0	api
DSNT-10993888						
Snow-Block Porosity	0.0731	0.0674	0.0606	0.0068	+/- 0.0150	decp
SDLT-10951314						
Near(B+D+P+L)	1664.498	1663.320	1666.248	-2.928	+/- 16.386	cps
Far(B+D+P+L)	1055.230	1056.512	1061.496	-4.984	+/- 17.251	cps
CALIPER RING 1	8.25	8.13	8.11	0.02	+/- 0.15	in
Data: PXP_CURR_16_15B\0001 TRIPLE COMBO 1\IDLE					Date: 12-Mar-08 04:42:26	

HALLIBURTON	
CUSTOMER EVENT LOG	

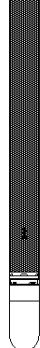
Event Type	Time & Date	Depth (ft)	Event Description
	12-Mar-08 00:22:23	7.00	Logging 001 12-Mar-08 00:22 Dn @7.0f
	12-Mar-08 00:39:49	2000.24	Halting 001 12-Mar-08 00:22 Dn @7.0f
	12-Mar-08 00:40:51	1979.25	Logging 002 12-Mar-08 00:40 Up @1979.3f
	12-Mar-08 00:49:54	1476.39	Halting 002 12-Mar-08 00:40 Up @1979.3f
	12-Mar-08 00:52:51	1650.75	Logging 003 12-Mar-08 00:52 Dn @1650.8f
	12-Mar-08 01:35:22	6627.15	Halting 003 12-Mar-08 00:52 Dn @1650.8f
	12-Mar-08 01:36:59	6620.50	Logging 004 12-Mar-08 01:36 Up @6620.5f
	12-Mar-08 03:32:45	96.02	Halting 004 12-Mar-08 01:36 Up @6620.5f

HALLIBURTON**TOOL STRING DIAGRAM REPORT**

Description	OD/Sensors	Diagram	Sensors	Tool Length	Accumulated Length
RWCH-C11013846 135.00 lbs	O.D. = 3.63 in		Load Cell @ 51.89 ft BH Temperature @ 51.32 ft	6.25 ft	55.57 ft
GTET-11005602 165.00 lbs	O.D. = 3.63 in		GammaRay @ 43.32 ft	8.46 ft	49.32 ft
DSNT-10993888 174.00 lbs	O.D. = 3.63 in		DSN Far @ 33.92 ft DSN Near @ 33.17 ft	9.69 ft	40.86 ft
SDLT-10951314 360.00 lbs	O.D. = 4.50 in O.D. = 4.75 in		SDL Microlog @ 23.36 ft SDL Caliper @ 23.18 ft SDL @ 23.17 ft	10.81 ft	31.17 ft
					20.36 ft
			Mud Resistivity @ 13.97 ft		
ACRt-ODESSA-e895-s200 250.00 lbs	O.D. = 3.63 in		ACRt @ 9.99 ft	19.25 ft	

BLNS-Thermomter
12.00 lbs

O.D. = 3.63 in



SP @ 2.39 ft

1.11 ft



1.11 ft

0.00 ft

Tool Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Length Accumulation (ft)	Max Logging Speed (fpm)
RWCH	RWCH	C11013846	135.00	6.25	49.32	300.00
GTET	GTET	11005602	165.00	8.46	40.86	60.00
DSNT	DSNT	10993888	174.00	9.69	31.17	60.00
SDLT	SDLT	10951314	360.00	10.81	20.36	60.00
ACRt	ACRt	ODESSA-e895-s200	250.00	19.25	1.11	300.00
BLNS	Bull Nose	Thermomter	12.00	1.11	0.00	300.00
Total			1,096.00	55.57		60.00

Data: PXP_CURR_16_15B\0001 TRIPLE COMBO 1\004 12-Mar-08 01:36 Up @6620.5f

Date: 12-Mar-08 02:56:43

COMPANY	PLAINS EXPLORATION AND PRODUCTION CO.		
WELL	CURREY 16-15B		
FIELD	BRUSH CREEK		
COUNTY	MESA	STATE	CO
HALLIBURTON		DUAL SPACED NEUTRON SPECTRAL DENSITY ARRAY COMP. RESISTIVITY	