

HALLIBURTON

ARRAY COMP RESISTIVITY SPECTRAL DENSITY DUAL SPACED EPITHERMAL NEUTRON LOG

COMPANY	EQT PRODUCTION COMPANY		
WELL	WV 512513		
FIELD	WESTON		
COUNTY	DODDRIDGE		
STATE	WEST VIRGINIA		
Permanent Datum	GL	Elev. 1180.0 ft	Elev.: K.B. 1190.0 ft
Log measured from	KB	10.0 ft above perm. Datum	D.F. 1189.0 ft
Drilling measured from	KB		G.L. 1180.0 ft
Date	04-Jun-10		
Run No.	2		
Depth - Driller	6762.00 ft		
Depth - Logger	6766.0 ft		
Bottom - Logged Interval	6755.59 ft		
Top - Logged Interval	3212.0 ft		
Casing - Driller	9.625 in	@ 3192.0 ft	@
Casing - Logger	3212.0 ft		
Bit Size	8.500 in		@
Type Fluid in Hole	AIR		
Density	0.3 ppg	0.00 s/cf	
PH	0.00 pH	0.0 pptm	
Source of Sample	NA		
Rm @ Meas. Temperature	0.00 ohmm	@ 0.00 degF	@
Rmf @ Meas. Temperature	0.00 ohmm	@ 0.00 degF	@
Rmc @ Meas. Temperature	0.00 ohmm	@ 0.00 degF	@
Source Rmf	NA	NA	
Rm @ BHT	0.00 ohmm	@ 120.0 degF	@
Time Since Circulation	11.0 hr		
Time on Bottom	05-Jun-10 00:00		
Max. Rec. Temperature	120.0 degF	@ 6766.0 ft	@
Equipment	11034103	CARM.	
Recorded By	J.SERNIA		
Witnessed By	R.BLOOD		

COMPANY	EQT PRODUCTION COMPANY
WELL	WV 512513
FIELD	WESTON
COUNTY	DODDRIDGE
STATE	WEST VIRGINIA
API No.	4701705912
Location	LAT: 39.27225 N; LONG: 80.77147 W DISTRICT: WEST UNION QUAD: WEST UNION 7.5'
Other Services:	CSNG BHPT

Fold here

Service Ticket No.: 7414275 API Serial No.: 4701705912 PGM Version: WL INSITE R3.0.3 (Build 5)

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.		@	@	TWO	ACRT I853S410	NA	1.5" S.O.	NA
Rmc @ Meas. Temp.		@	@					
Source Rmf	Rmc							
Rm @ BHT		@	@					
Rmf @ BHT		@	@					
Rmc @ BHT		@	@					

EQUIPMENT DATA							
GAMMA		ACOUSTIC		DENSITY		NEUTRON	
Run No.	TWO	Run No.		Run No.	TWO	Run No.	TWO
Serial No.	070	Serial No.		Serial No.	I073P423	Serial No.	789_S415
Model No.	GTET	Model No.		Model No.	SDLT	Model No.	DSEN
Diameter	3.63"	No. of Cent.		Diameter	4.5"	Diameter	3.63"
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.	5227GW	Serial No.	DSN-415
Distance to Source	27'	FWDA [Y/N]		Strength	1.78 CI	Strength	15 CI

LOGGING DATA

GENERAL

GAMMA

ACOUSTIC

DENSITY

NEUTRON

Run No.	Depth		Speed ft/min	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix
	From	To		L	R	L	R		L	R		L	R	
TWO	6766'	3212'	REC	0	200				.3	-.1	2.71	.3	-.1	LIME

DIRECTIONAL INFORMATION

Maximum Deviation	@	KOP	@
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Remarks: AHV CALCULATED FOR 5.5-INCH CASING
 HES CREW: CUNNINGHAM, NICK
 DRILLING RIG: HIGHLANDS DRILLING RIG #7
 TOOL CONFIG.: GTET/CSNG/BHPT/DSEN/SDLT/ACRT *DECENT. ON DSEN, 1 WEAR RING ON CSNG, 2 1.5-INCH S.O. ON ACRT
 NO PRE/POST CALIBRATIONS PERFORMED
 RUN 2 TIES INTO RUN 3 PERFORMED ON 31-MAY-2010

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.

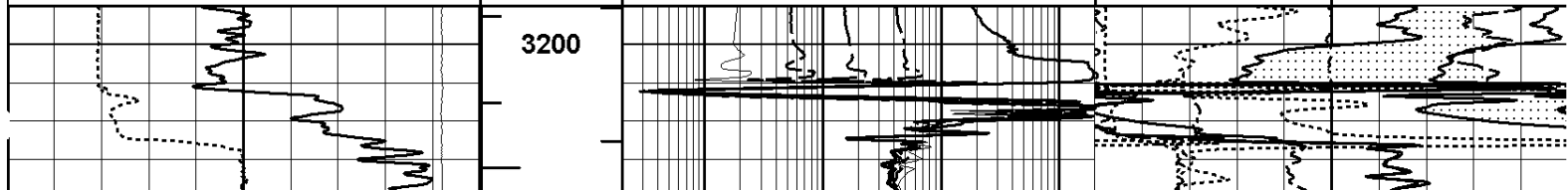
HALLIBURTON

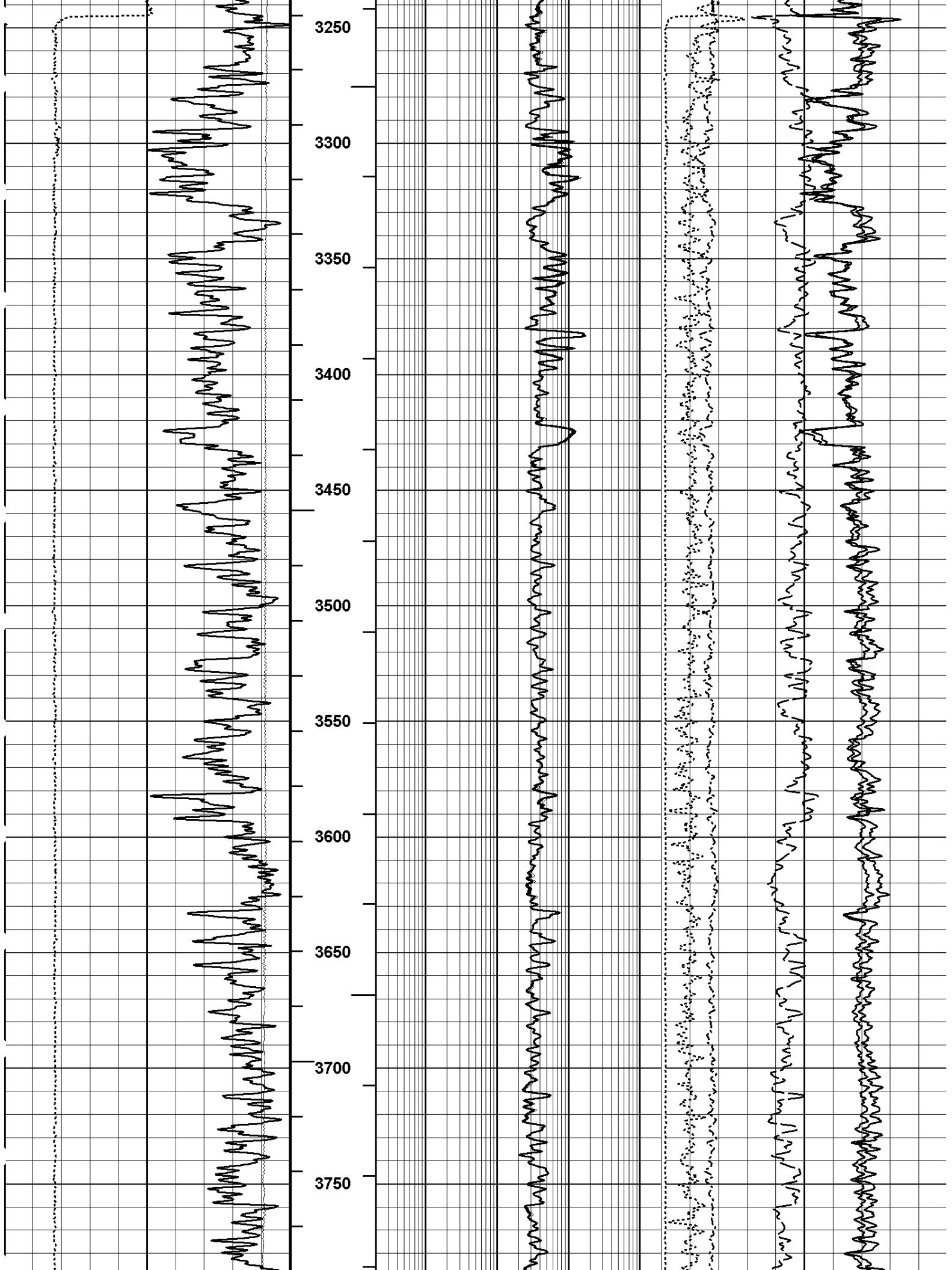
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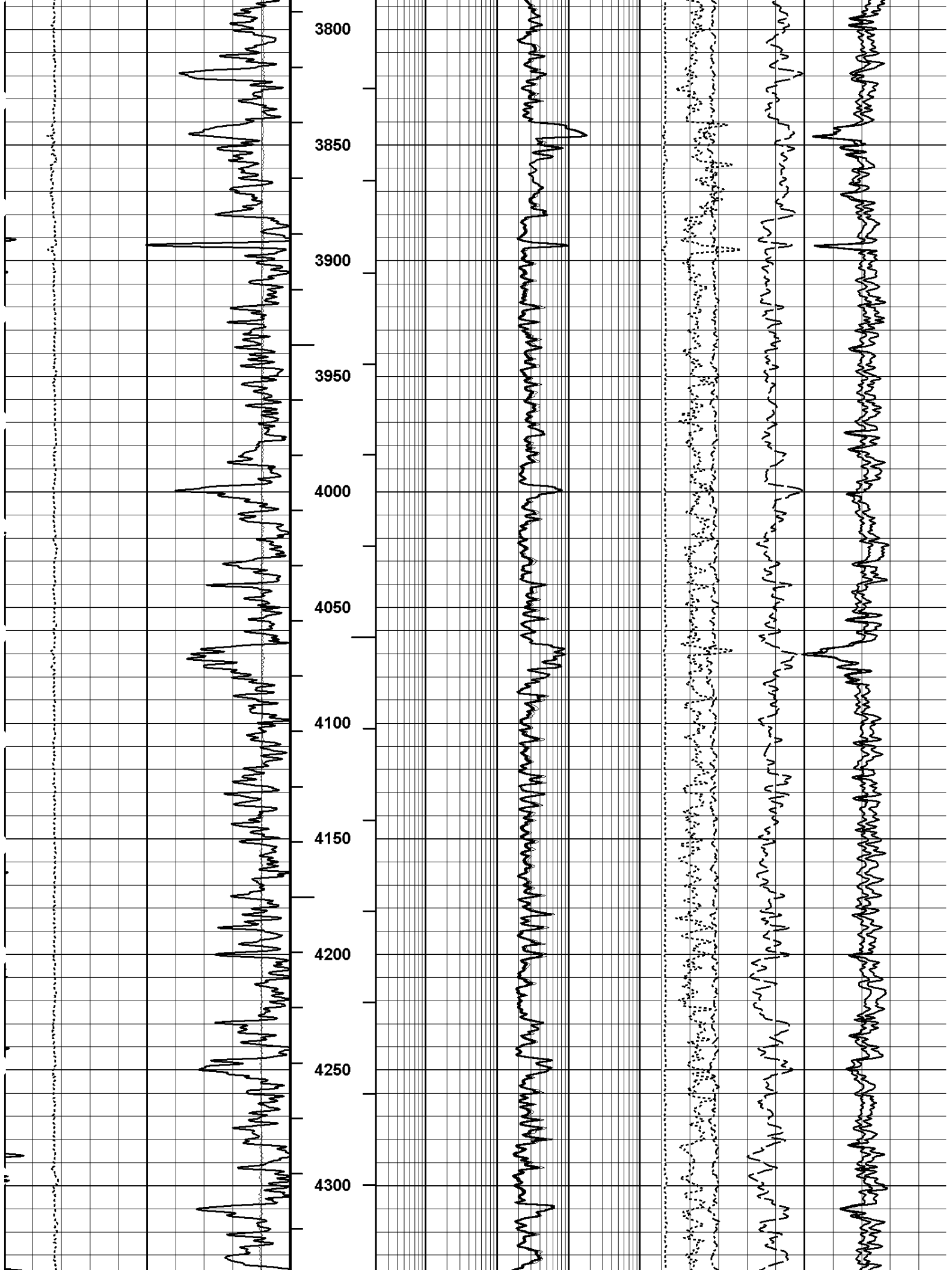
Plot Time: 05-Jun-10 01:50:00
 Plot Range: 3190 ft to 6771.92 ft
 Data: 4701705912_0604\Well Based\DAQ-0001-003\
 Plot File: \\-LOCAL-4701705912_0531\0001 triplecombobhpt(not saved)\2in_IIC_ACRT_M_jmack

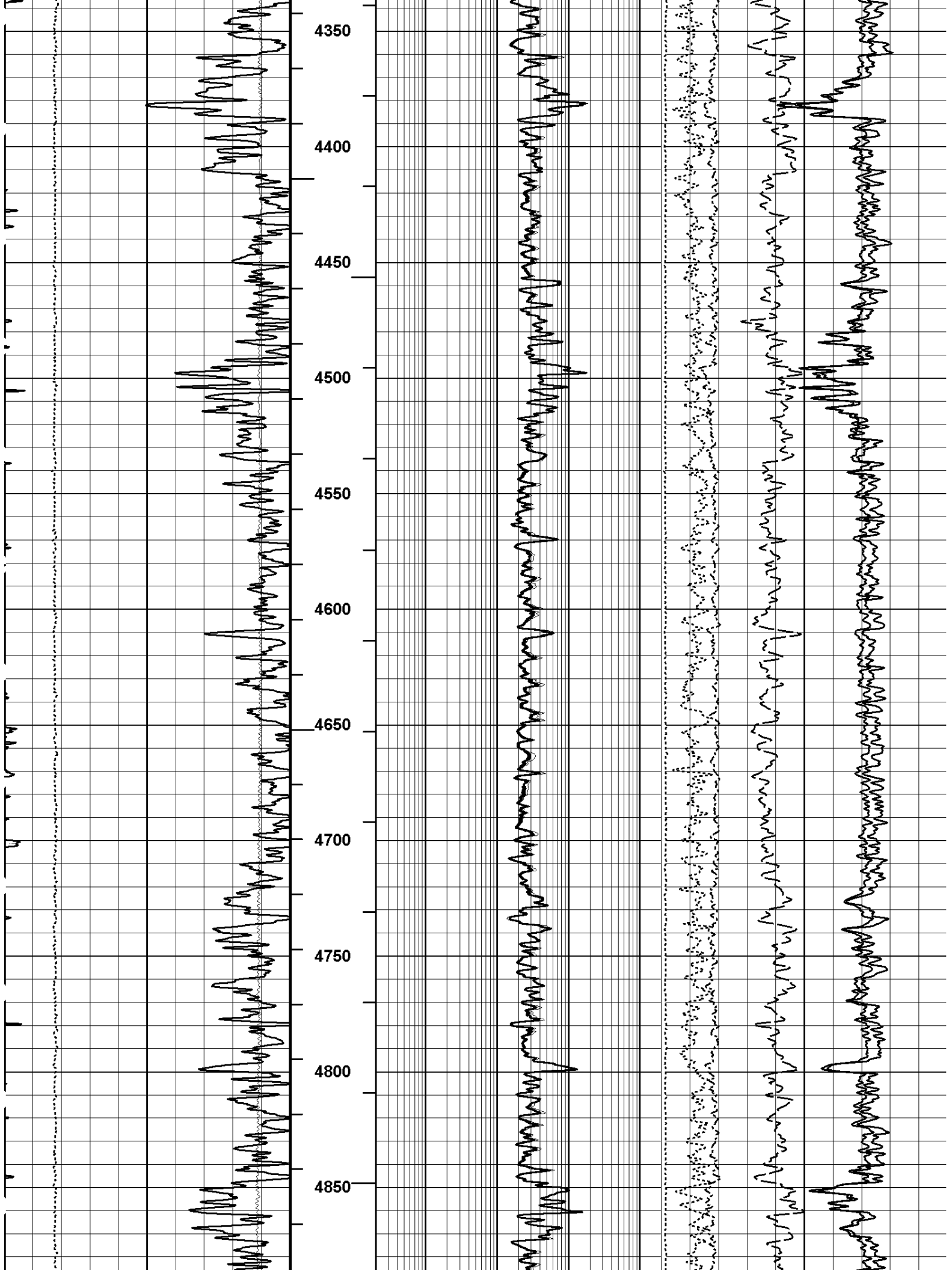
MAIN PASS 2" = 100'

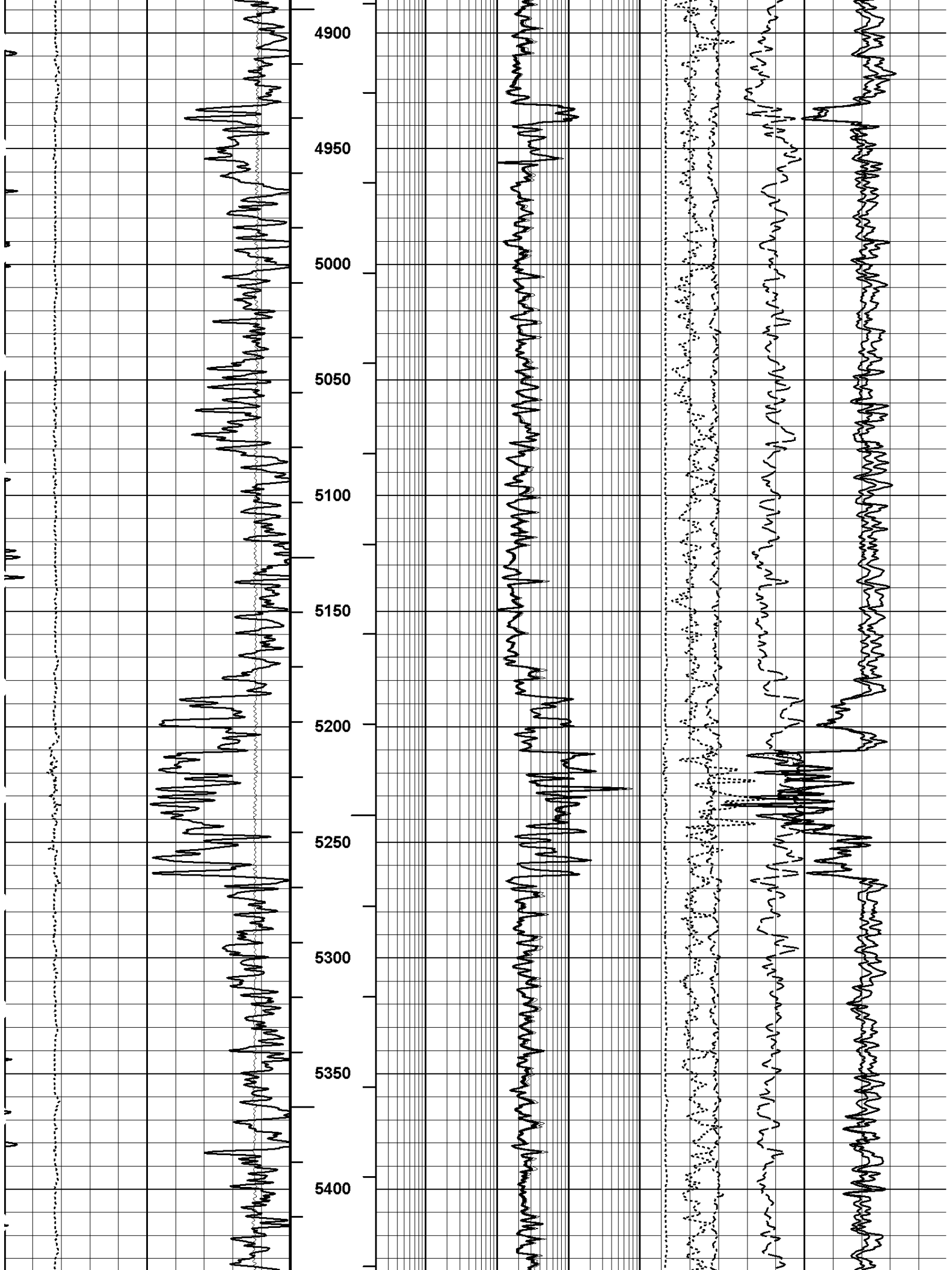
			Diff Caliper				
			inches				
			10in Resistivity 1ft Res	2K	0.3	DensityPorosity	-0.1
			ohm-metre			decp	
			20in Resistivity 1ft Res	2K	0.3	Air Porosity	-0.1
			ohm-metre			decp	
0	Gamma Ray	200	30in Resistivity 1ft Res	2K	2	Density	3
200	100	300	ohm-metre			gram per cc	
	api	400	60in Resistivity 1ft Res	2K	-0.05	DensityCorr	0.45
	Tension	1K	ohm-metre			gram per cc	
21K	pounds		90in Resistivity 1ft Res	2K	0	Pe	10
	Caliper	17	ohm-metre			barns/electron	
7	inches						

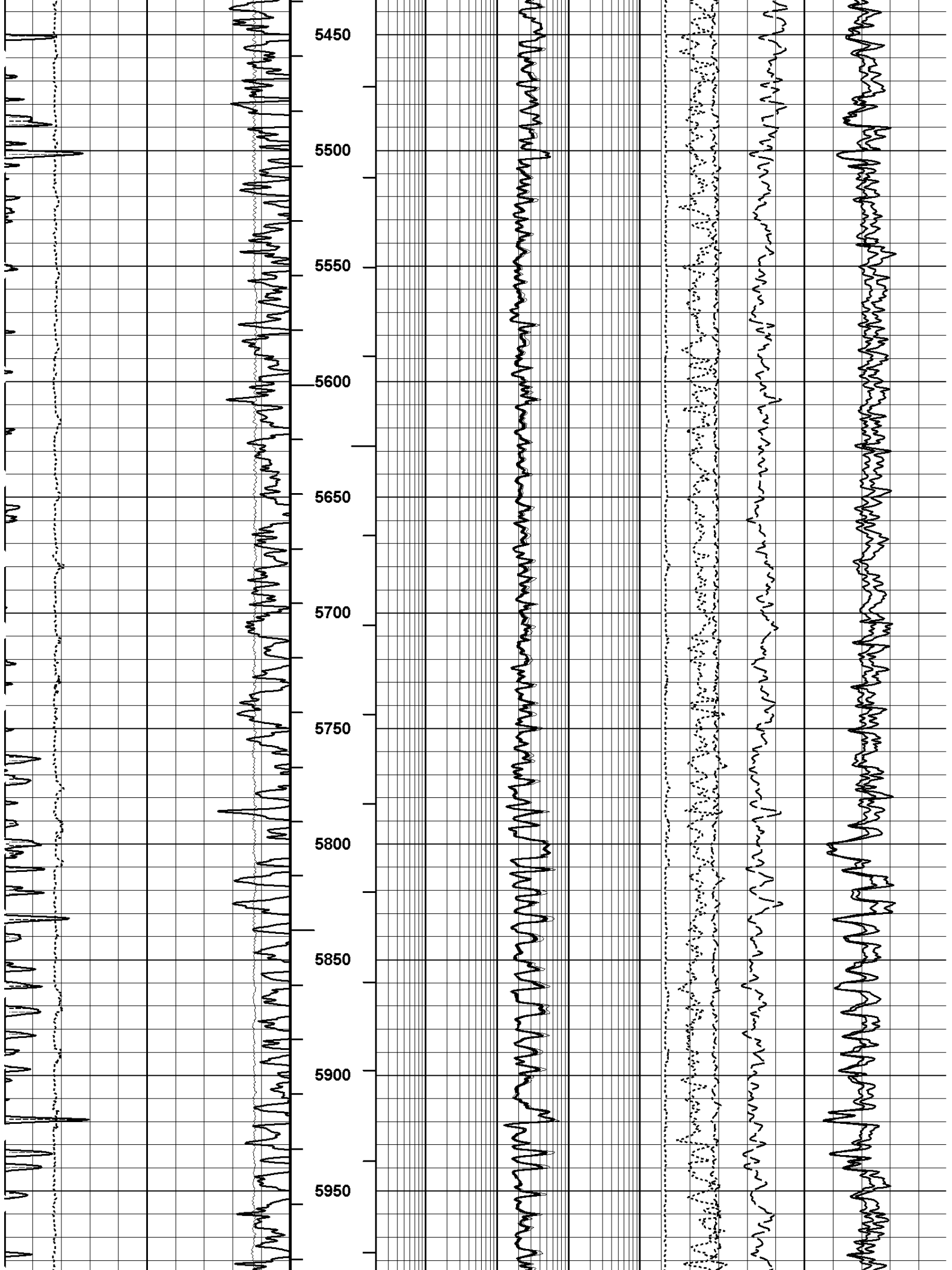


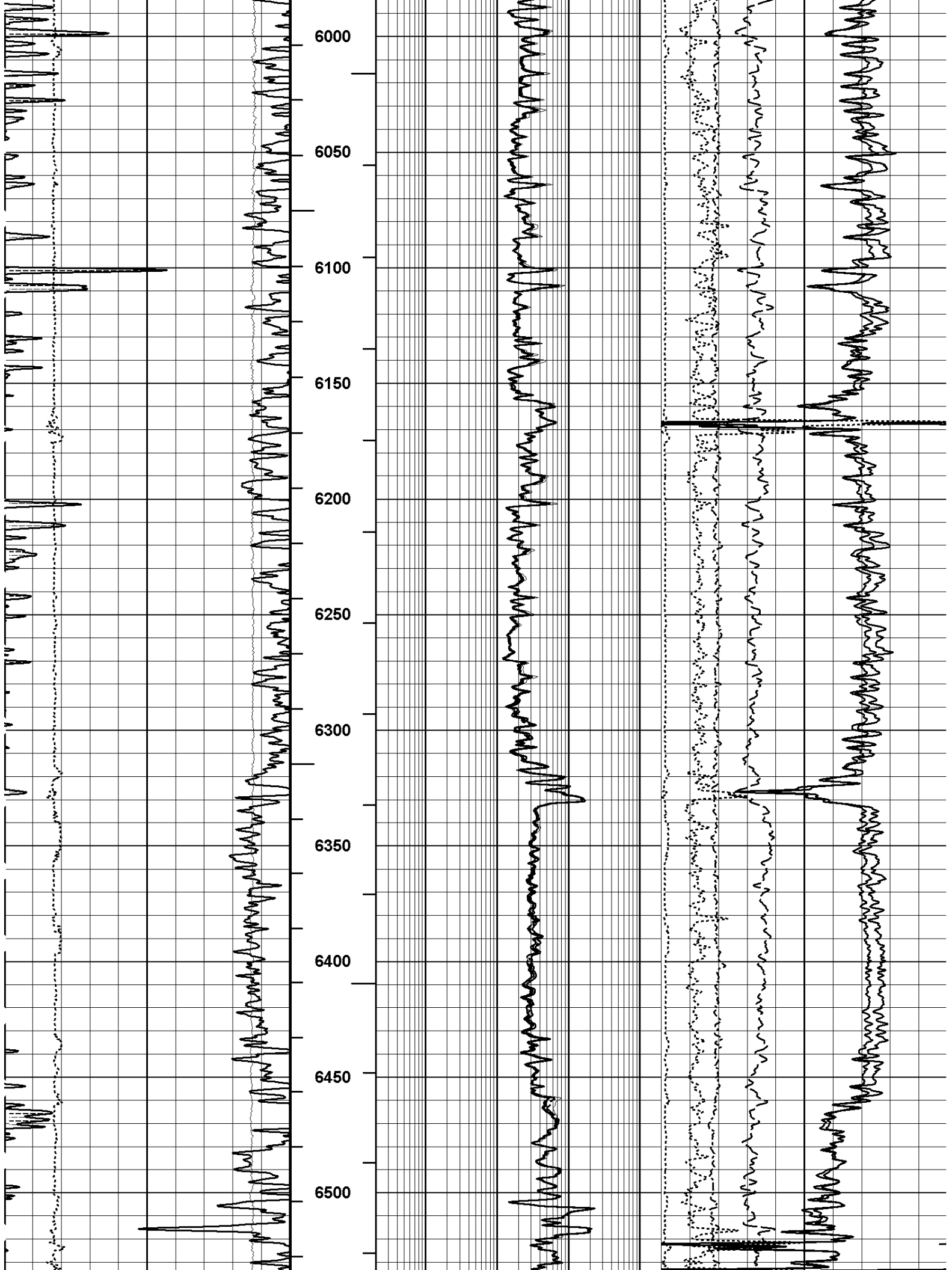


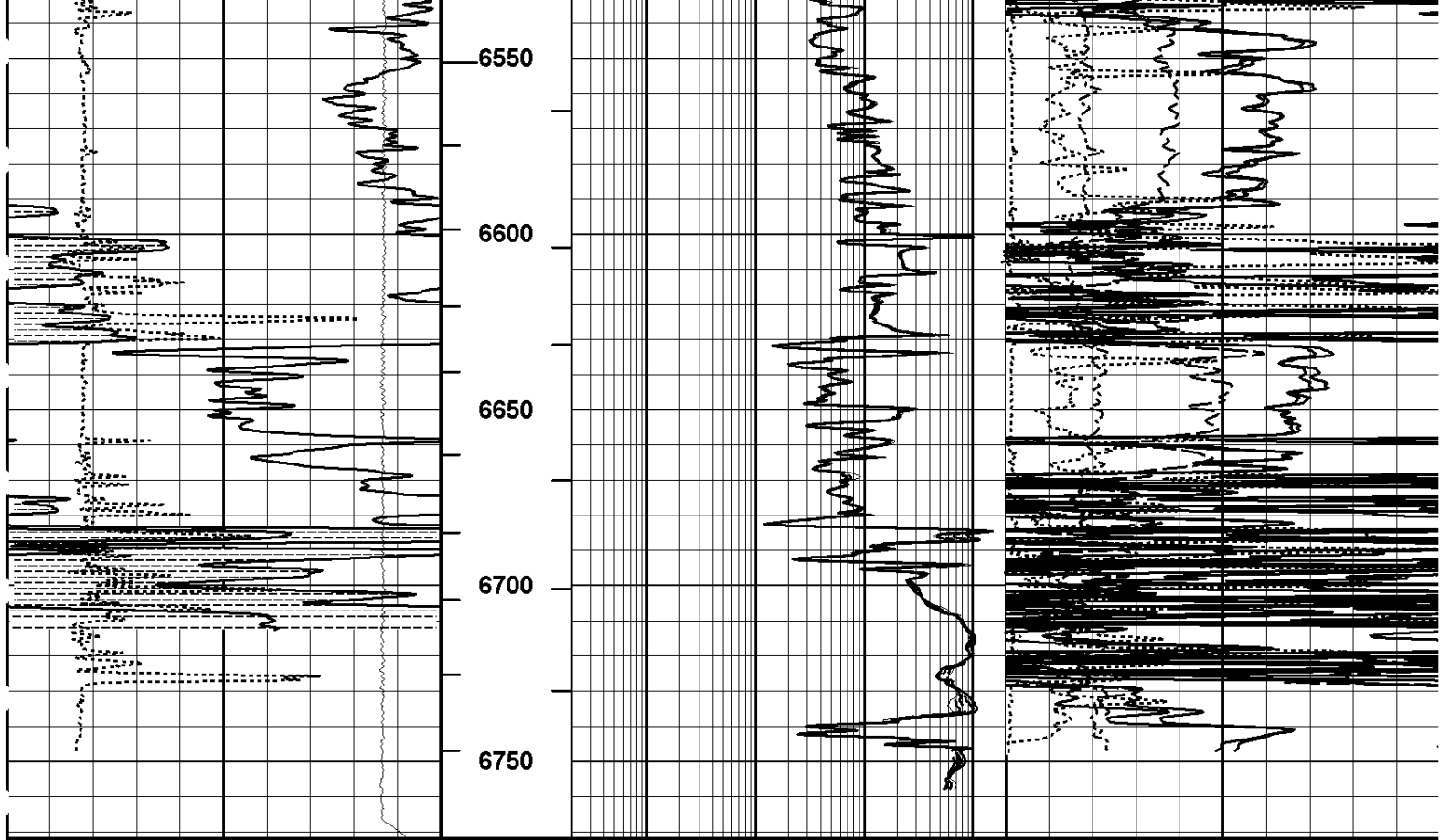












7	Caliper	17	MD	1 : 600	ft	0.2	90in Resistivity 1ft Res	2K	0	10	Pe	
	inches						ohm-metre				barns/electron	
21K	Tension	1K	BHVT			0.2	60in Resistivity 1ft Res	2K	-0.05		DensityCorr	0.45
	pounds						ohm-metre				gram per cc	
0	Gamma Ray	200	AHVT			0.2	30in Resistivity 1ft Res	2K	2		Density	3
	100						ohm-metre				gram per cc	
200	300	400				0.2	20in Resistivity 1ft Res	2K	0.3		Air Porosity	-0.1
	api						ohm-metre				decp	
						0.2	10in Resistivity 1ft Res	2K	0.3		DensityPorosity	-0.1
							ohm-metre				decp	
						-20					Diff Caliper	20
											inches	

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Plot Time: 05-Jun-10 01:50:22
 Plot Range: 3190 ft to 6771.92 ft
 Data: 4701705912_0604\Well Based\DAQ-0001-003*
 Plot File: \\-LOCAL-4701705912_0531\0001 triplecombobhpt(not saved)\2in_IIC_ACRT_M_jmack

MAIN PASS 2" = 100'

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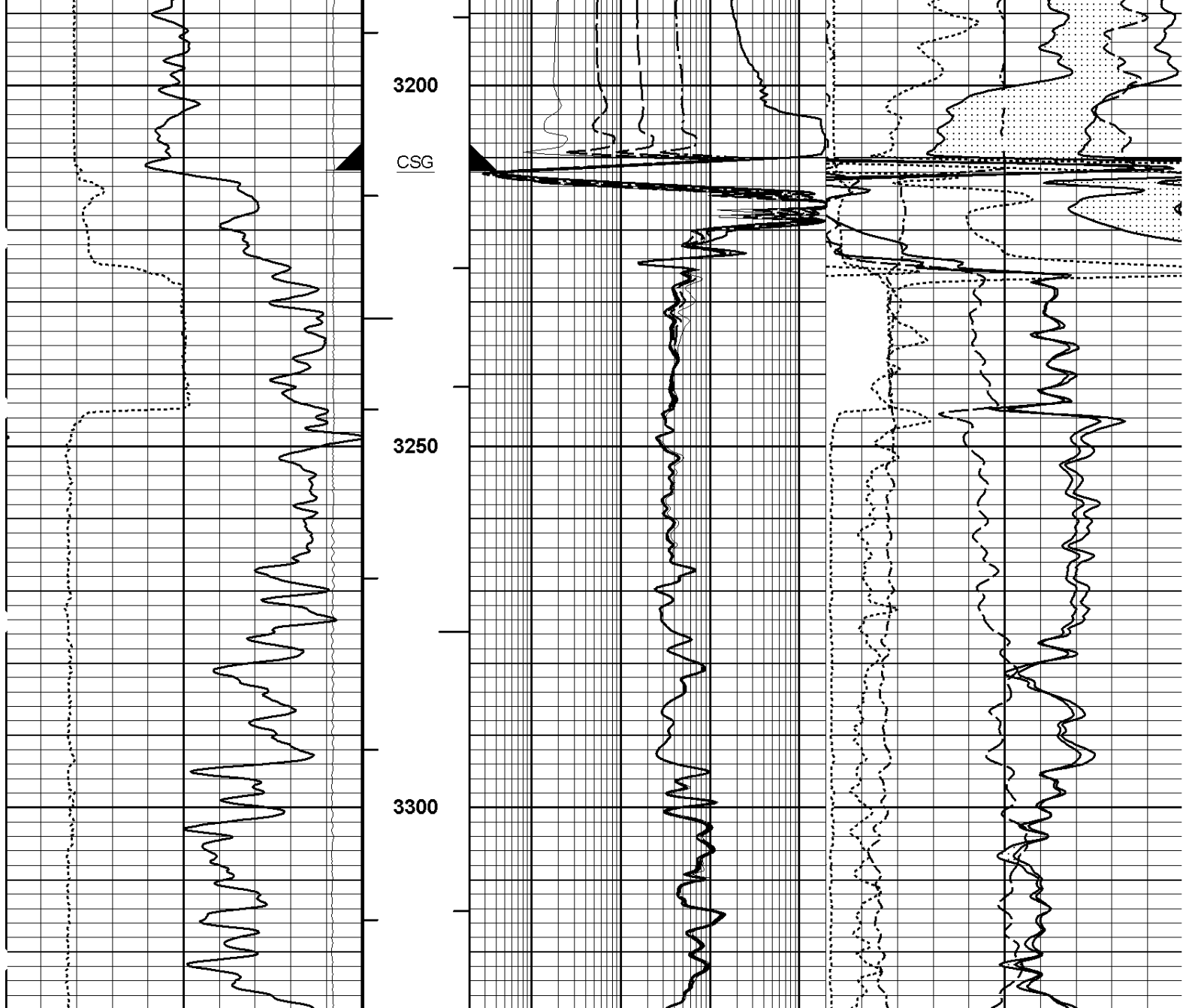
Plot Time: 05-Jun-10 01:50:22
 Plot Range: 3188 ft to 6771.92 ft
 Data: 4701705912_0604\Well Based\DAQ-0001-003*
 Plot File: \\-LOCAL-4701705912_0531\0001 triplecombobhpt(not saved)\5in_IIC_ACRT_M_jmack

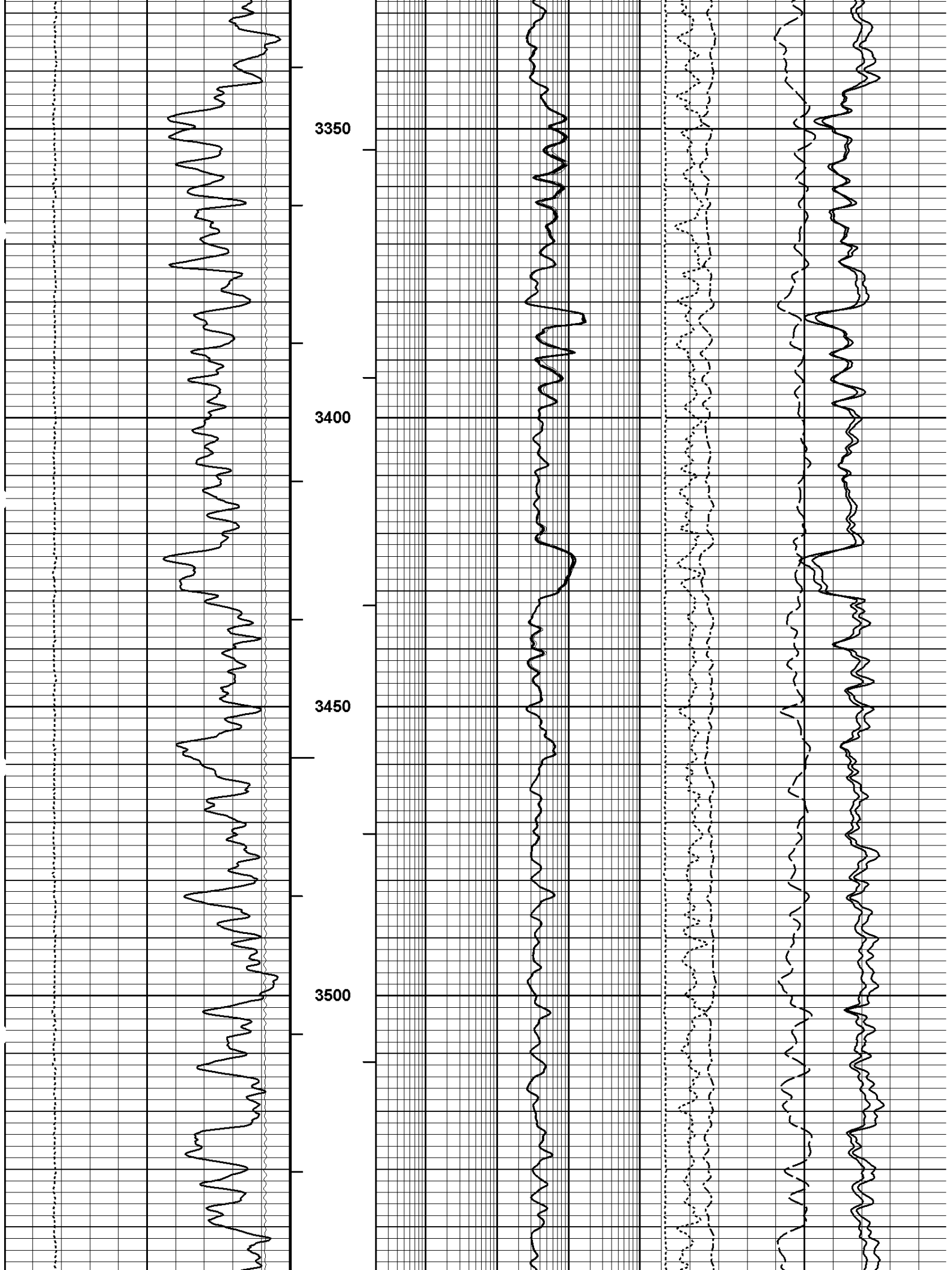
MAIN PASS 5" = 100'

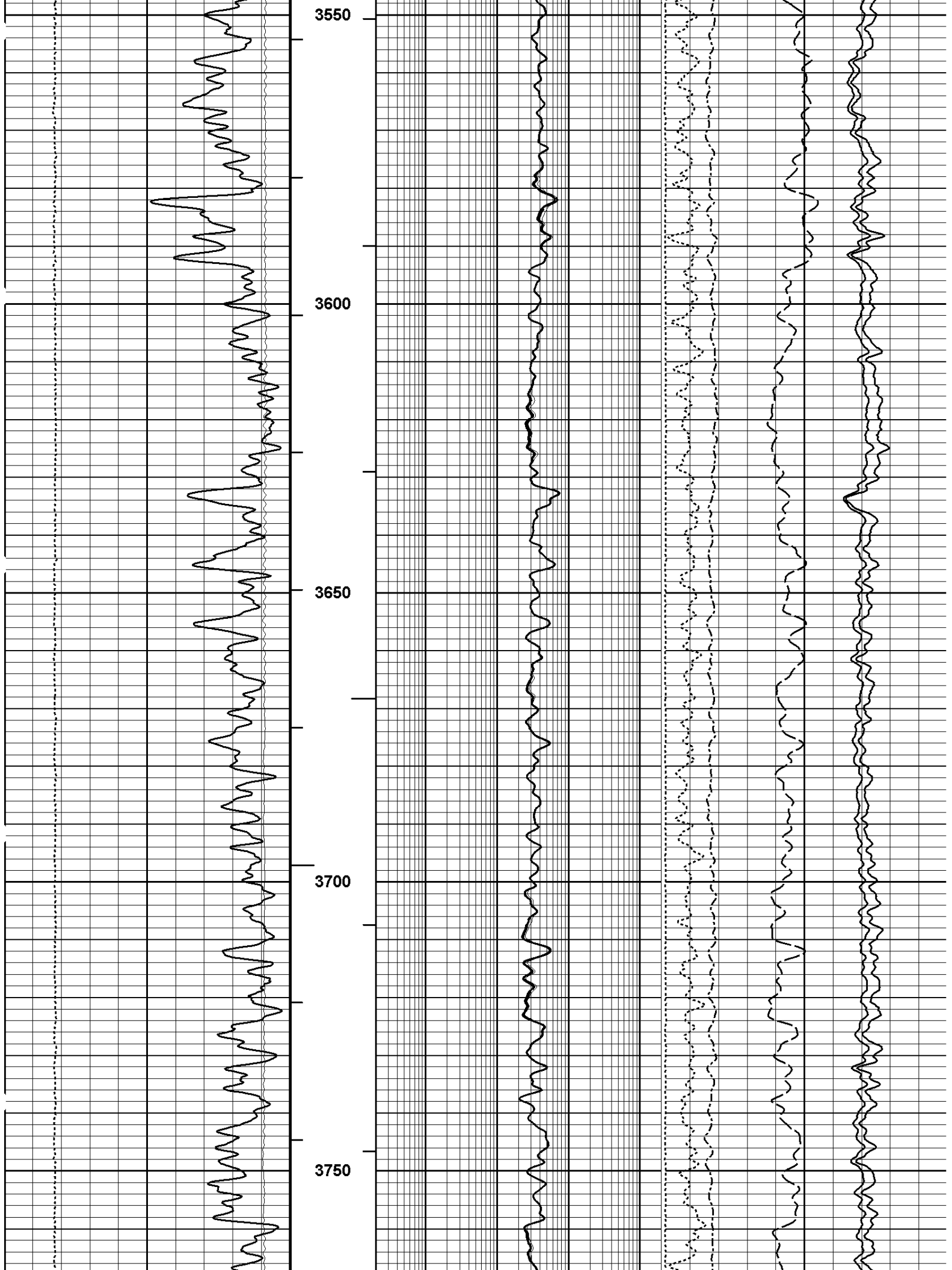
			-20		Diff Caliper		20	
			inches					
			0.2		10in Resistivity 1ft Res		2K	
			0.2		20in Resistivity 1ft Res		2K	
			0.2		30in Resistivity 1ft Res		2K	
			0.2		60in Resistivity 1ft Res		2K	
			0.2		90in Resistivity 1ft Res		2K	
			0.2				0.3	
			0.2				0.3	
			0.2				2	
			0.2				-0.05	
			0.2				0	
			0.2				10	

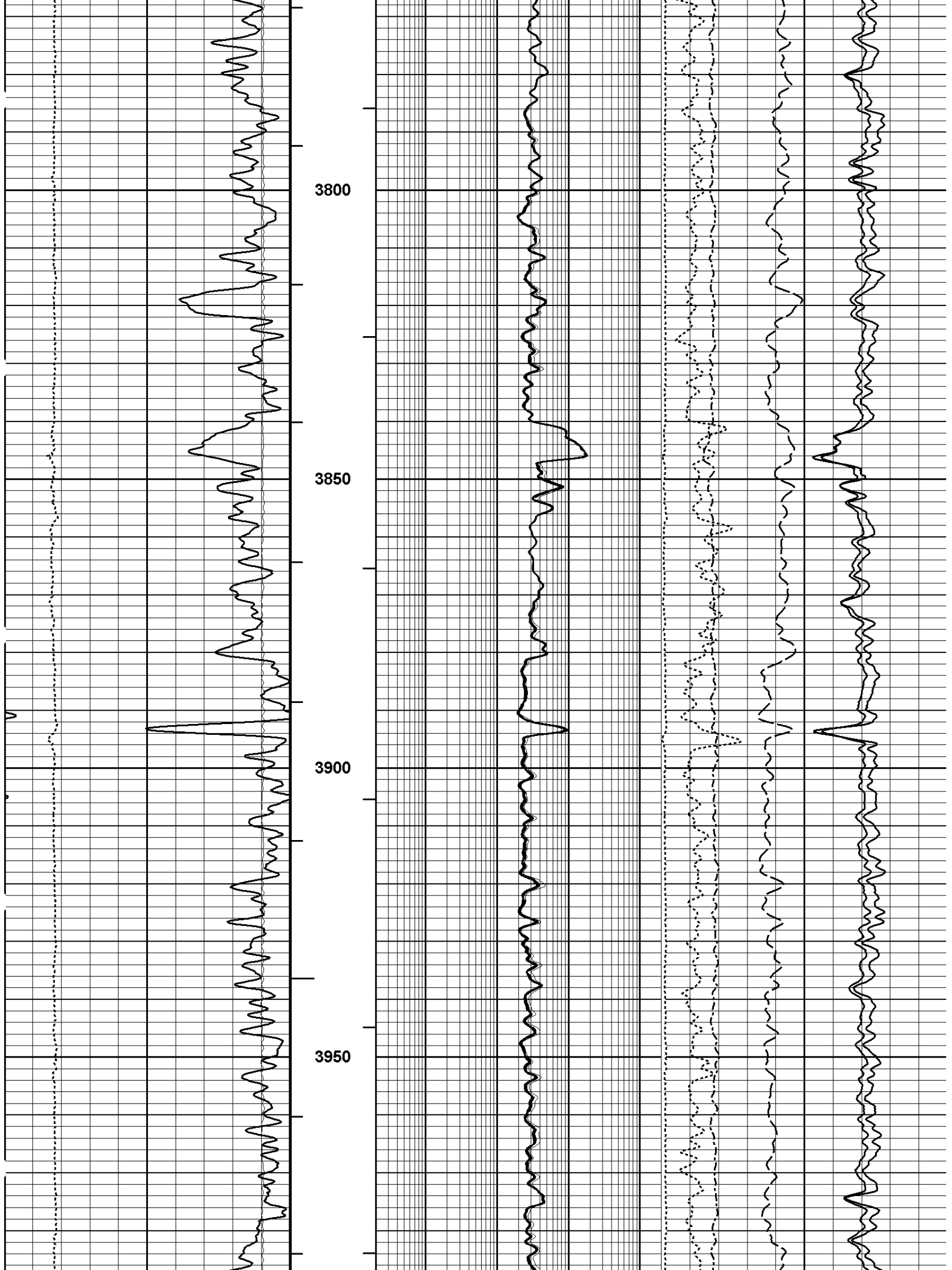
Gamma Ray		
0	100	200
200	300	400
api		
Tension		
21K		1K
pounds		
Caliper		
7		17
inches		

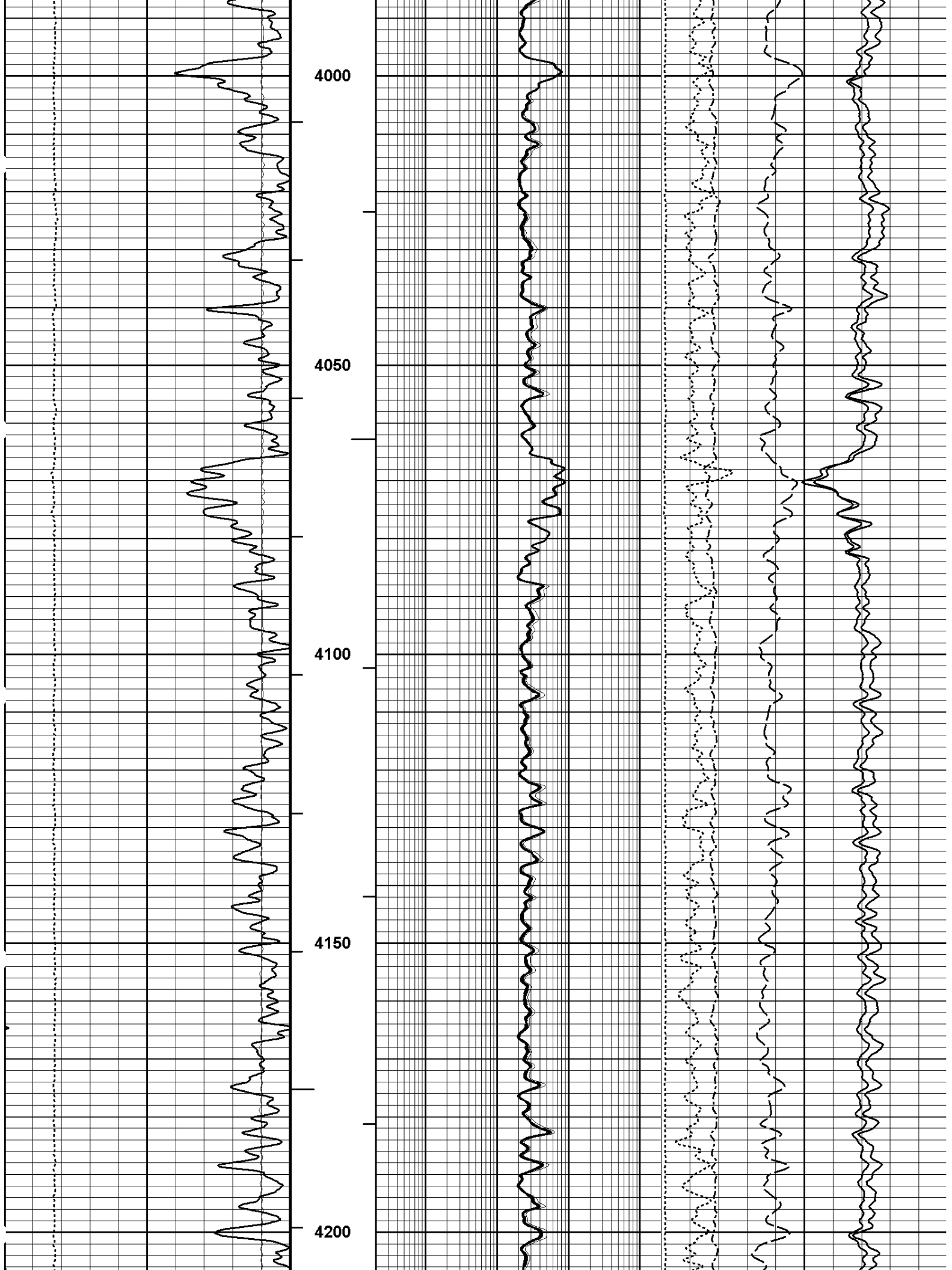
AHVT
 BHVT
 MD
 1 : 240
 ft

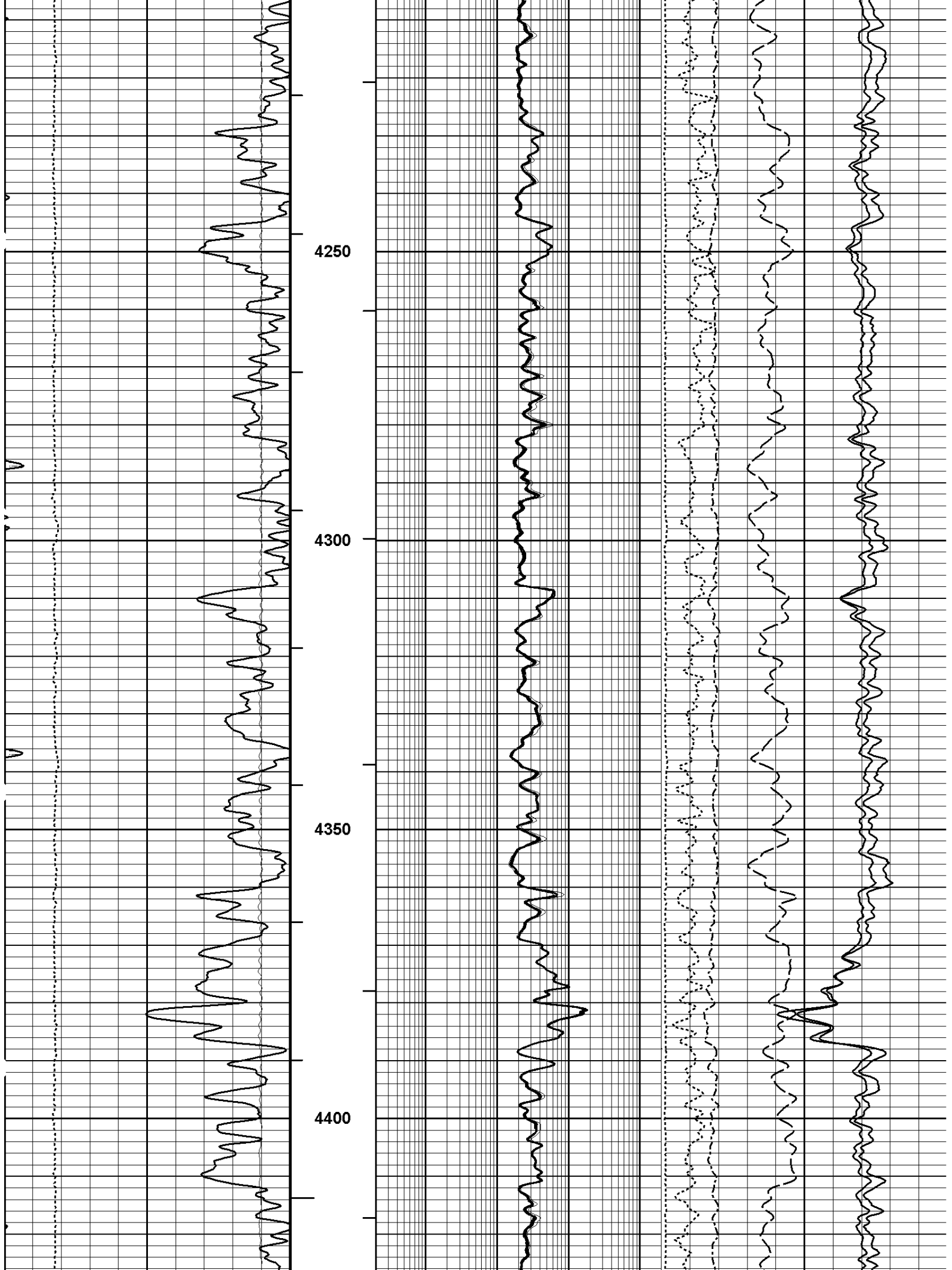


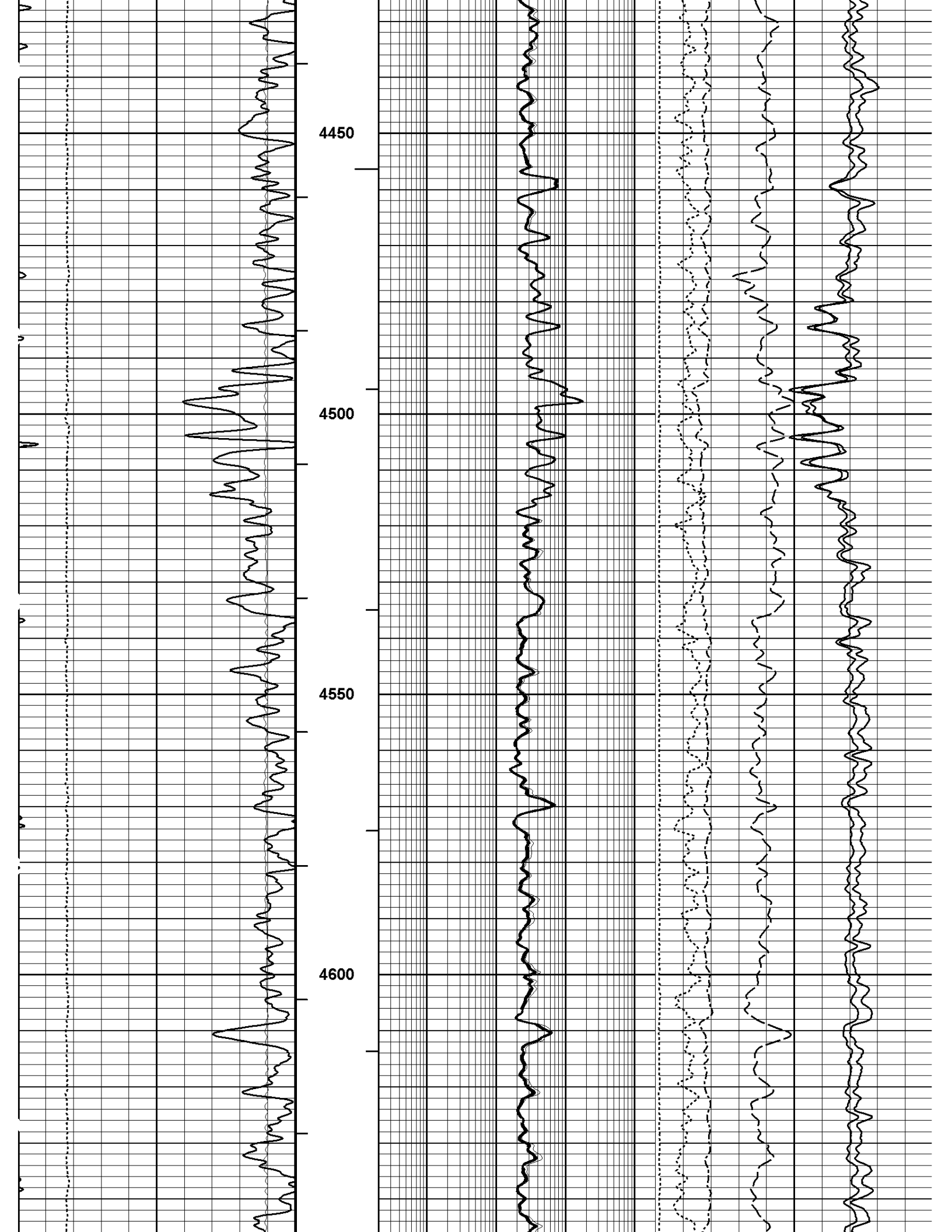


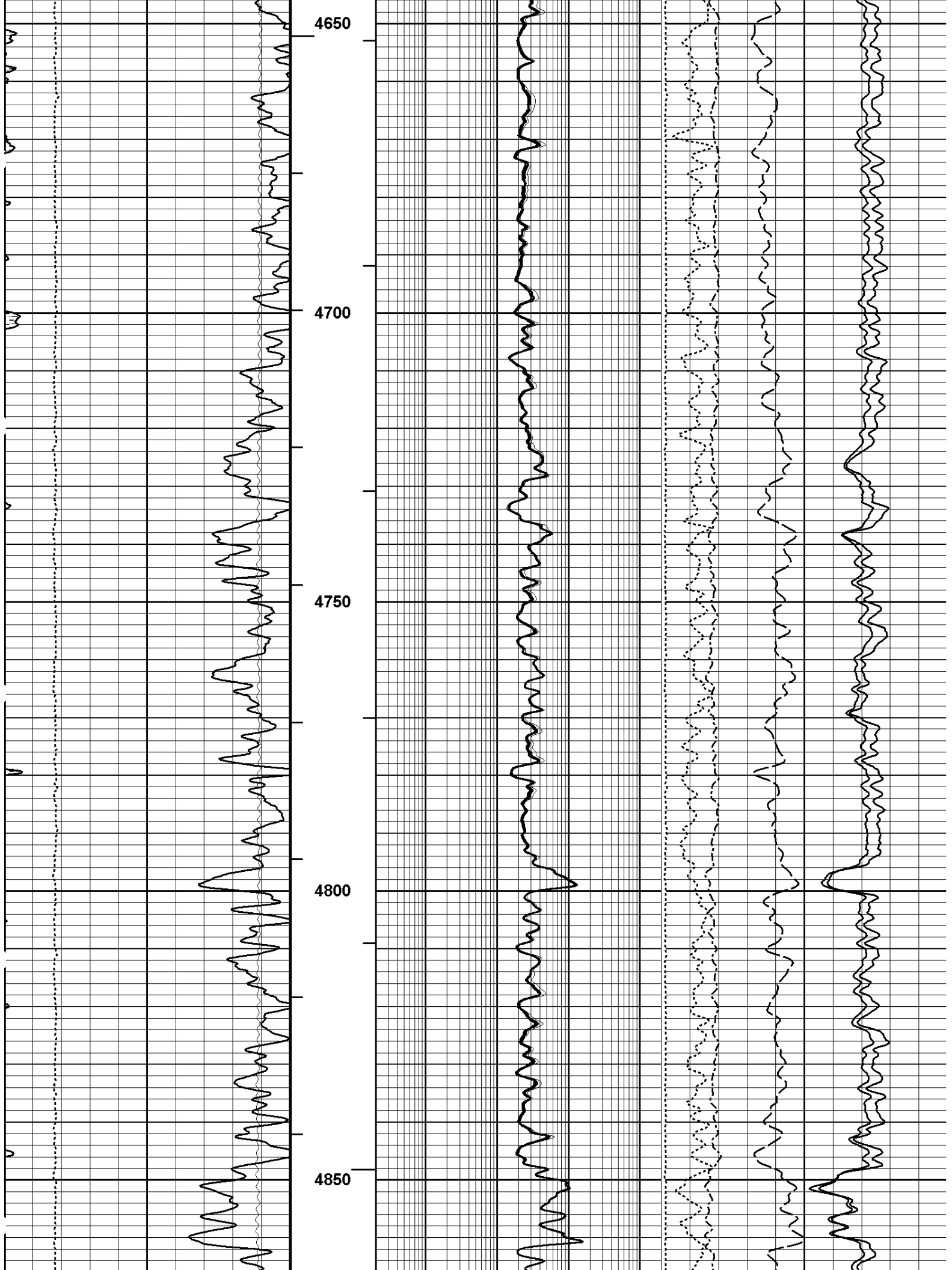


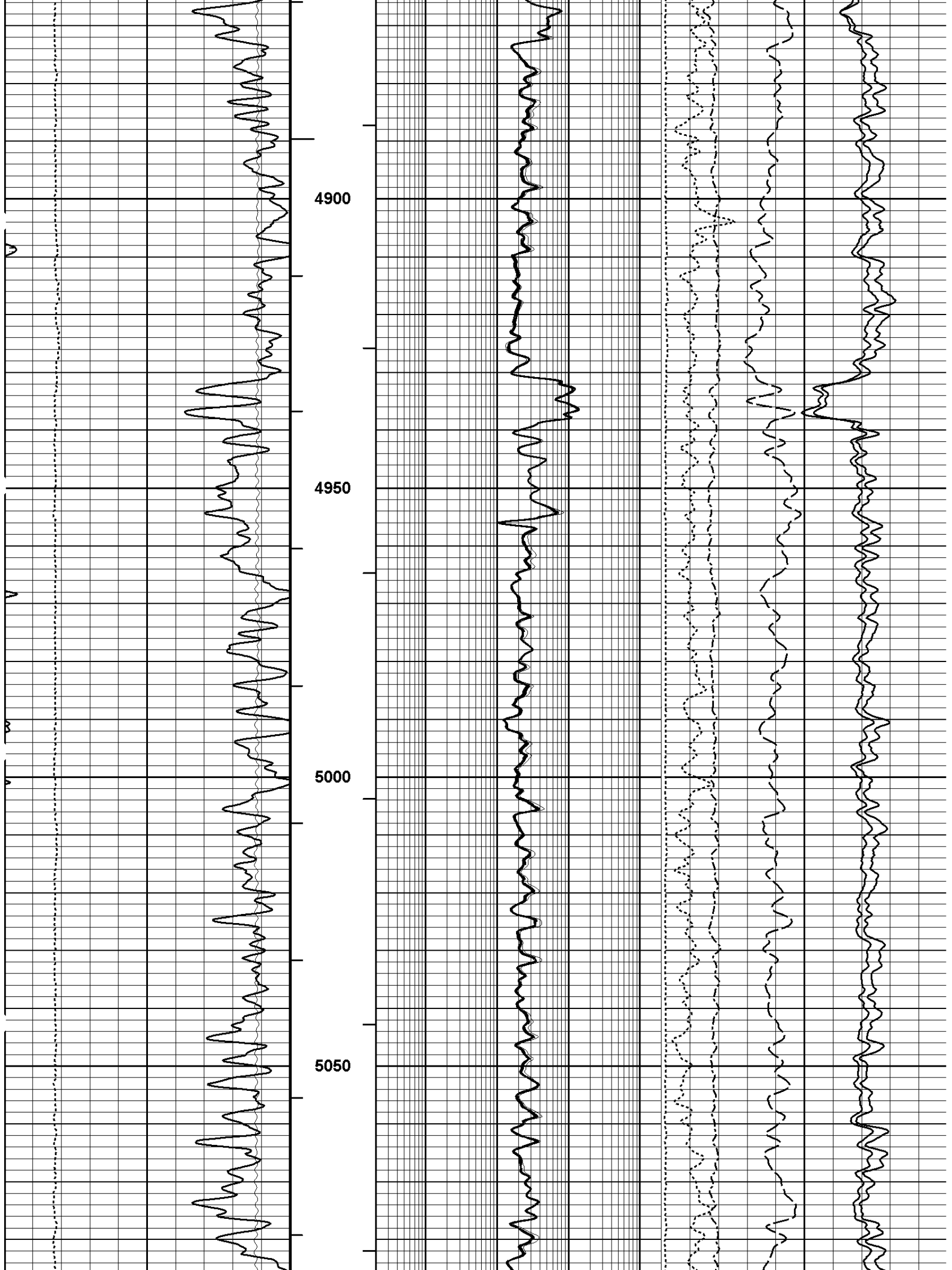


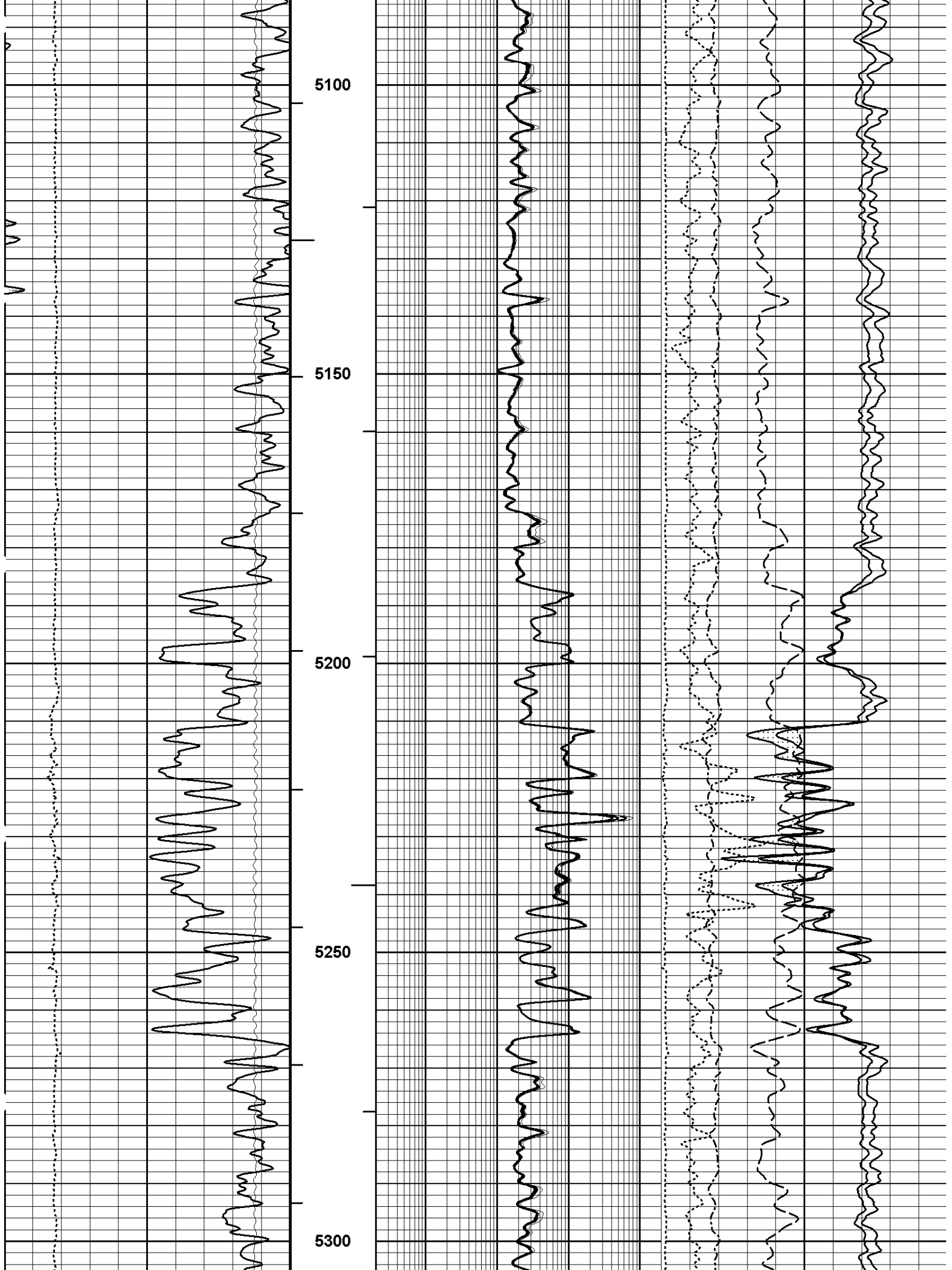


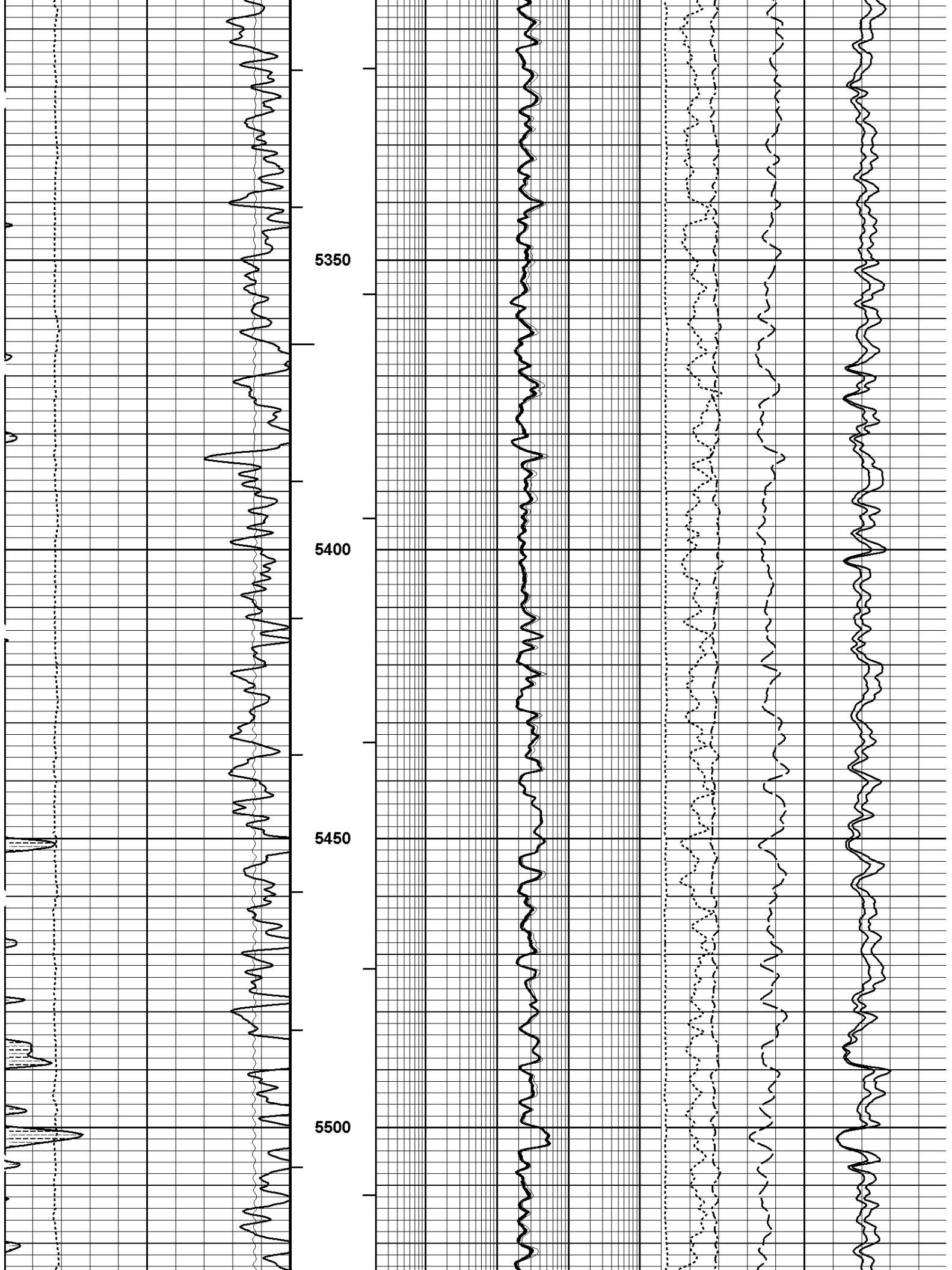


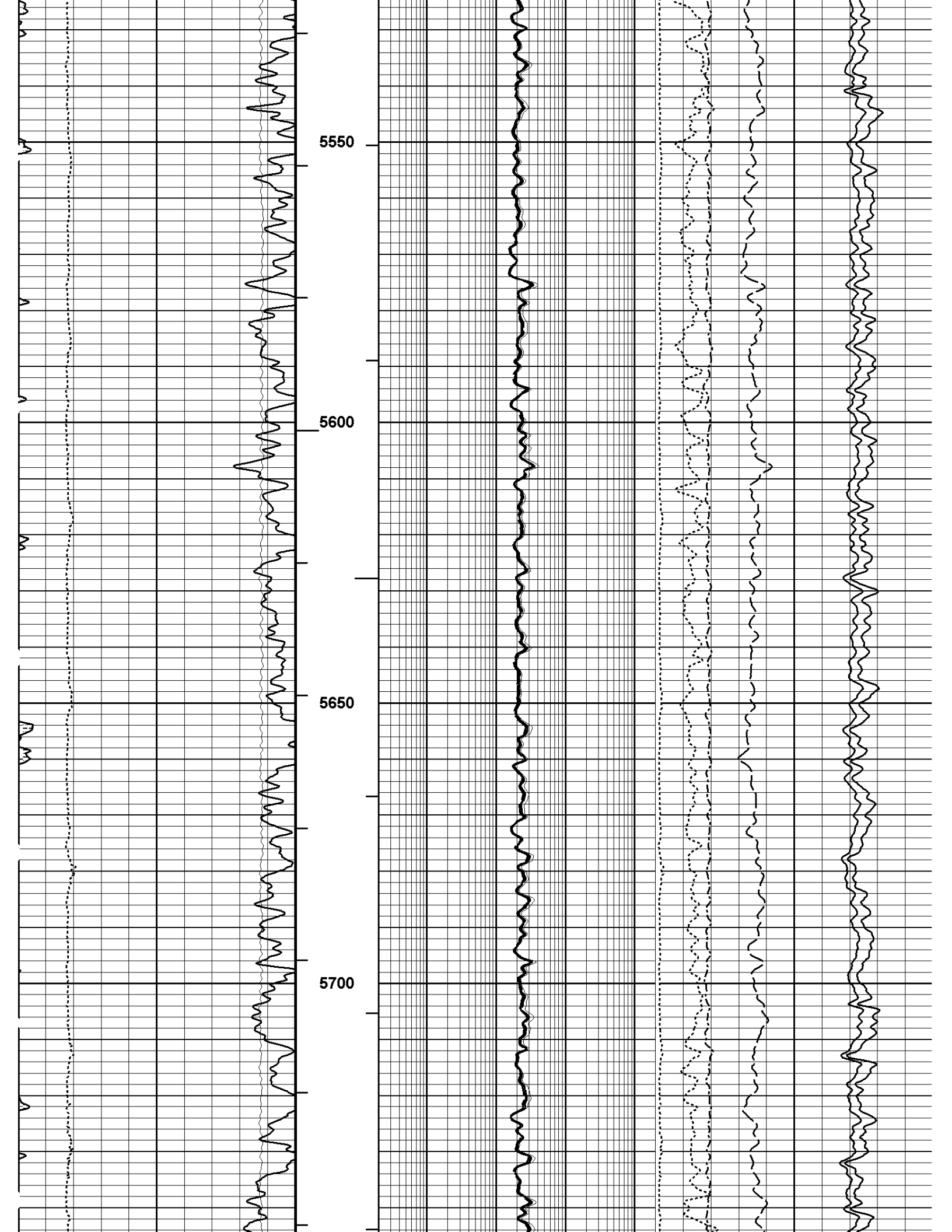


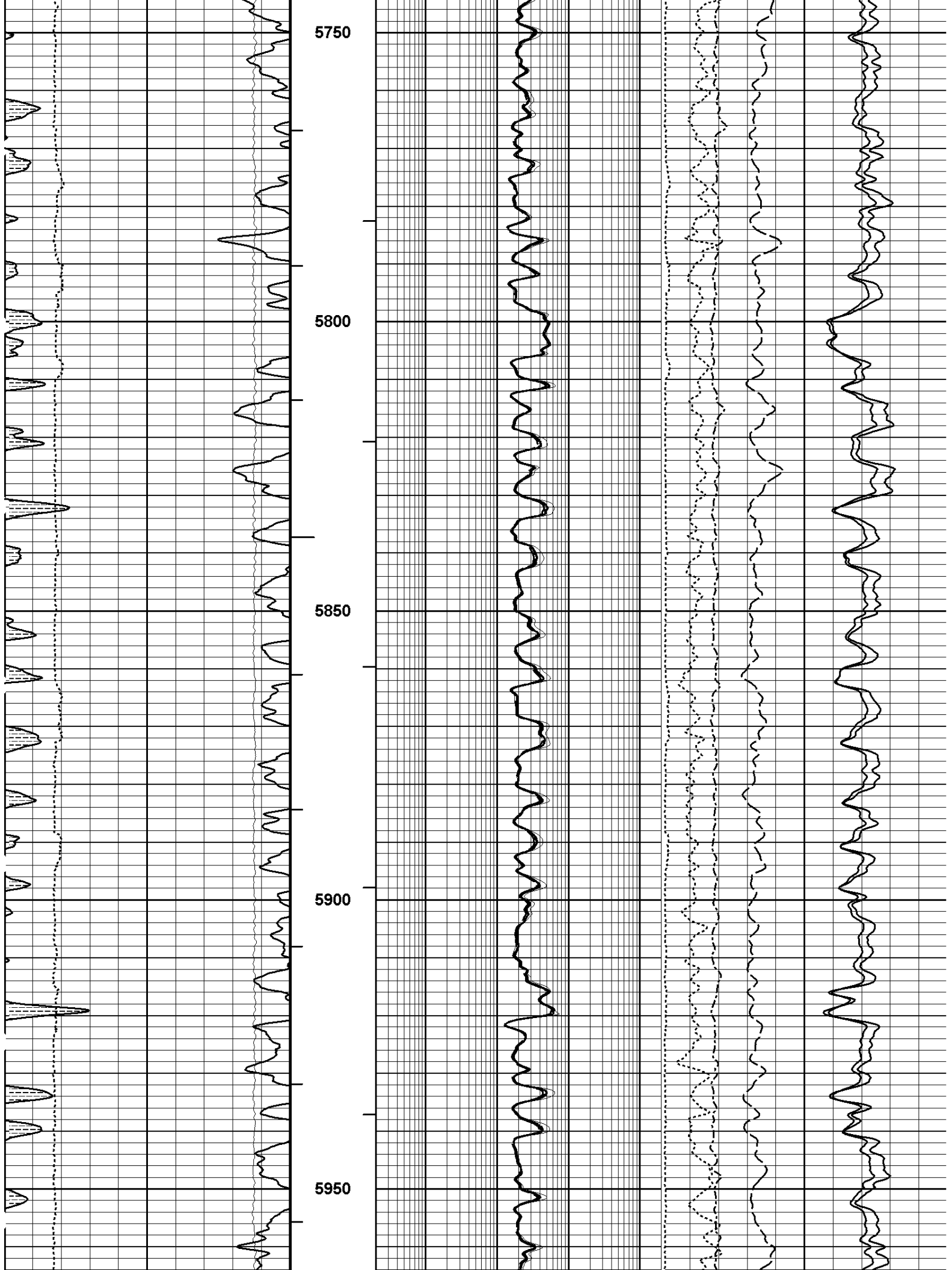


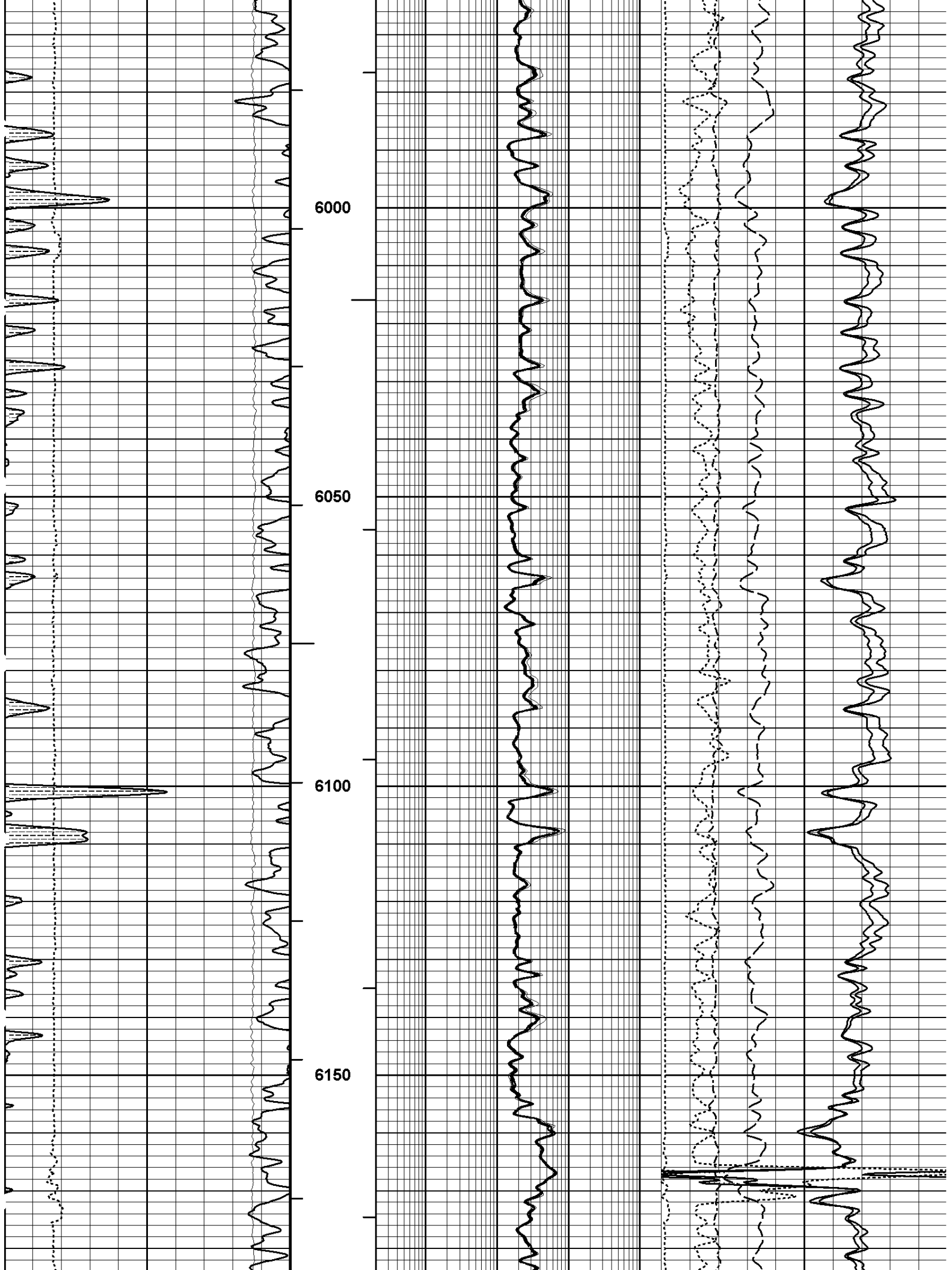


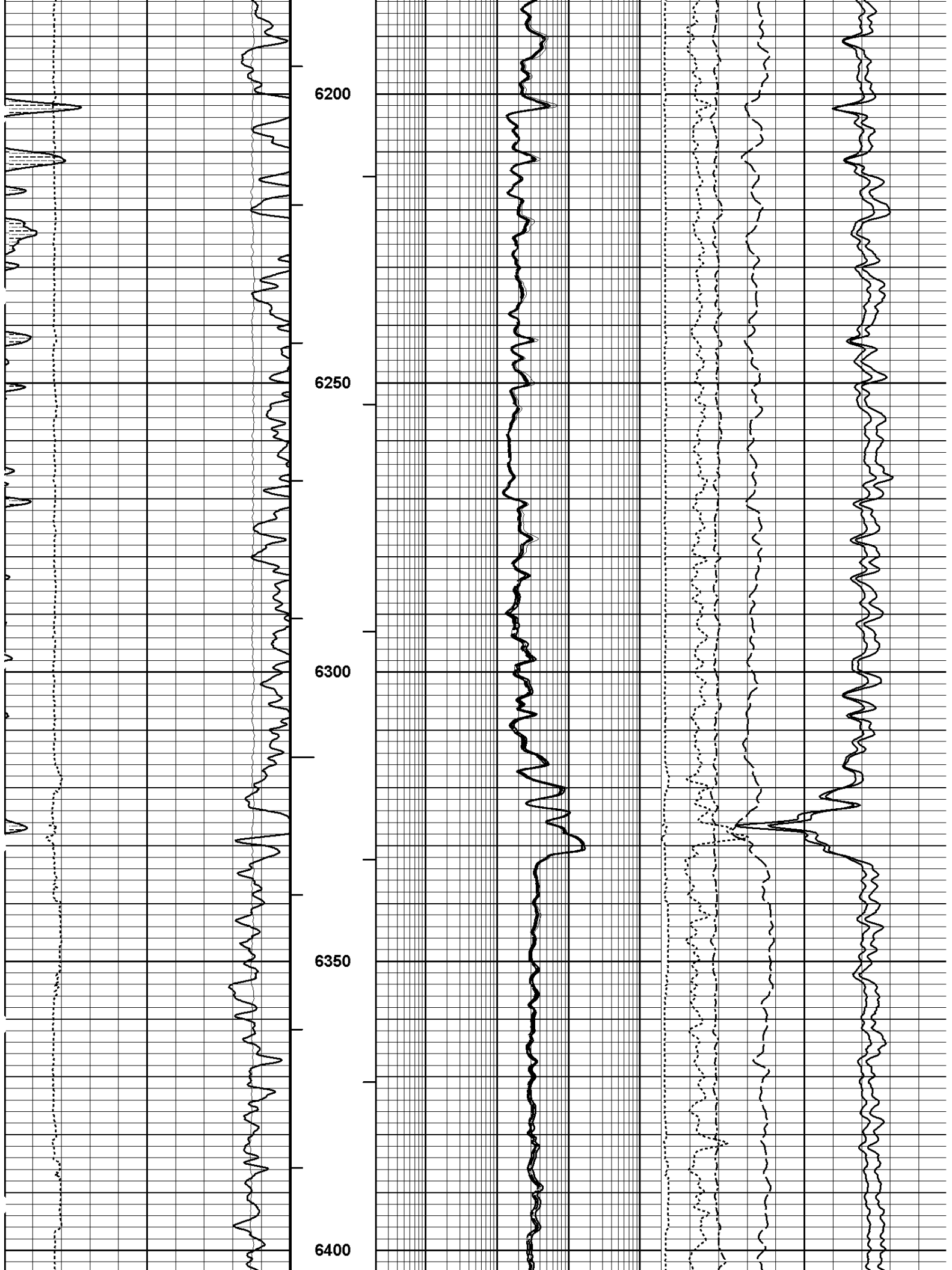


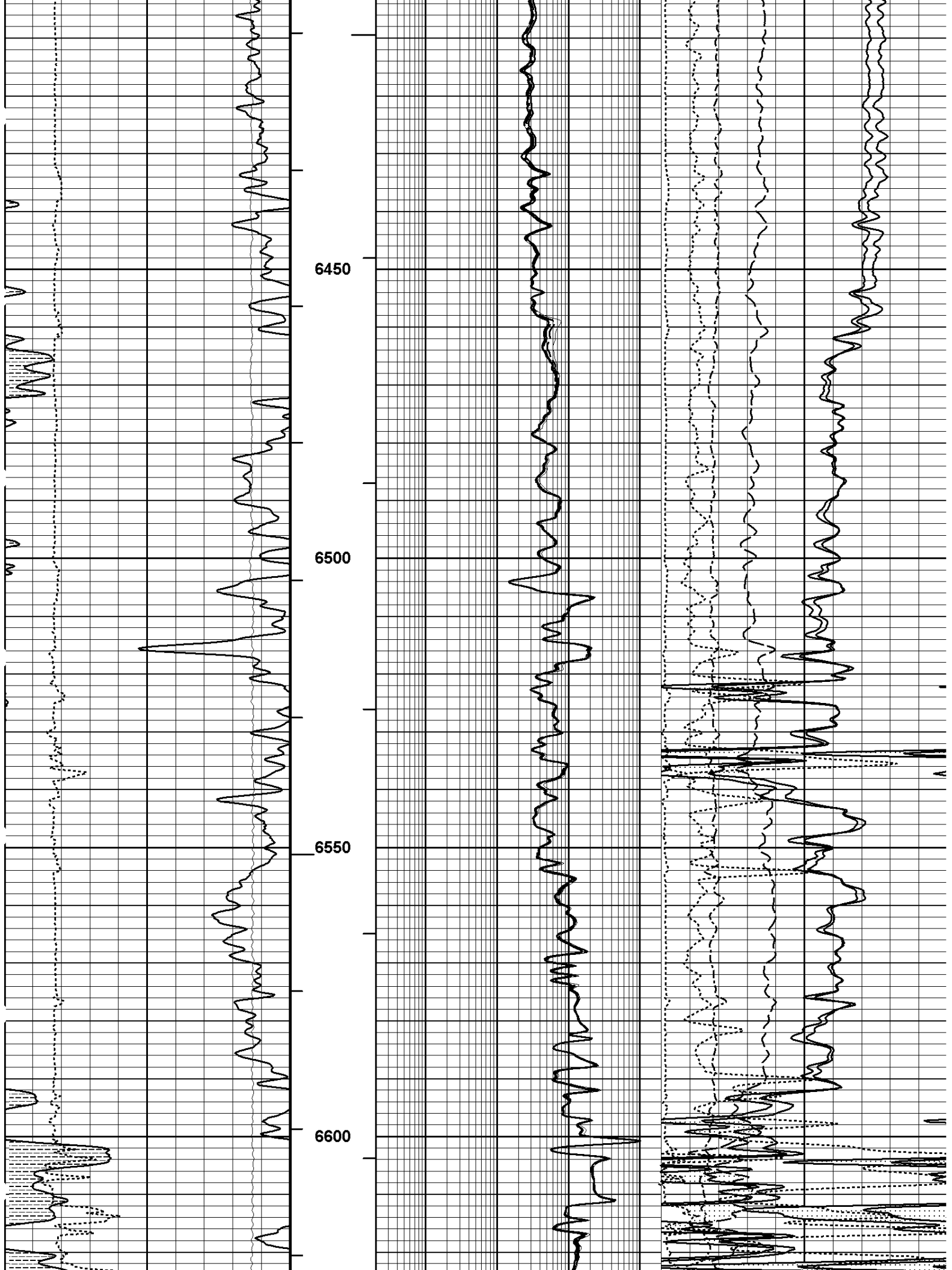


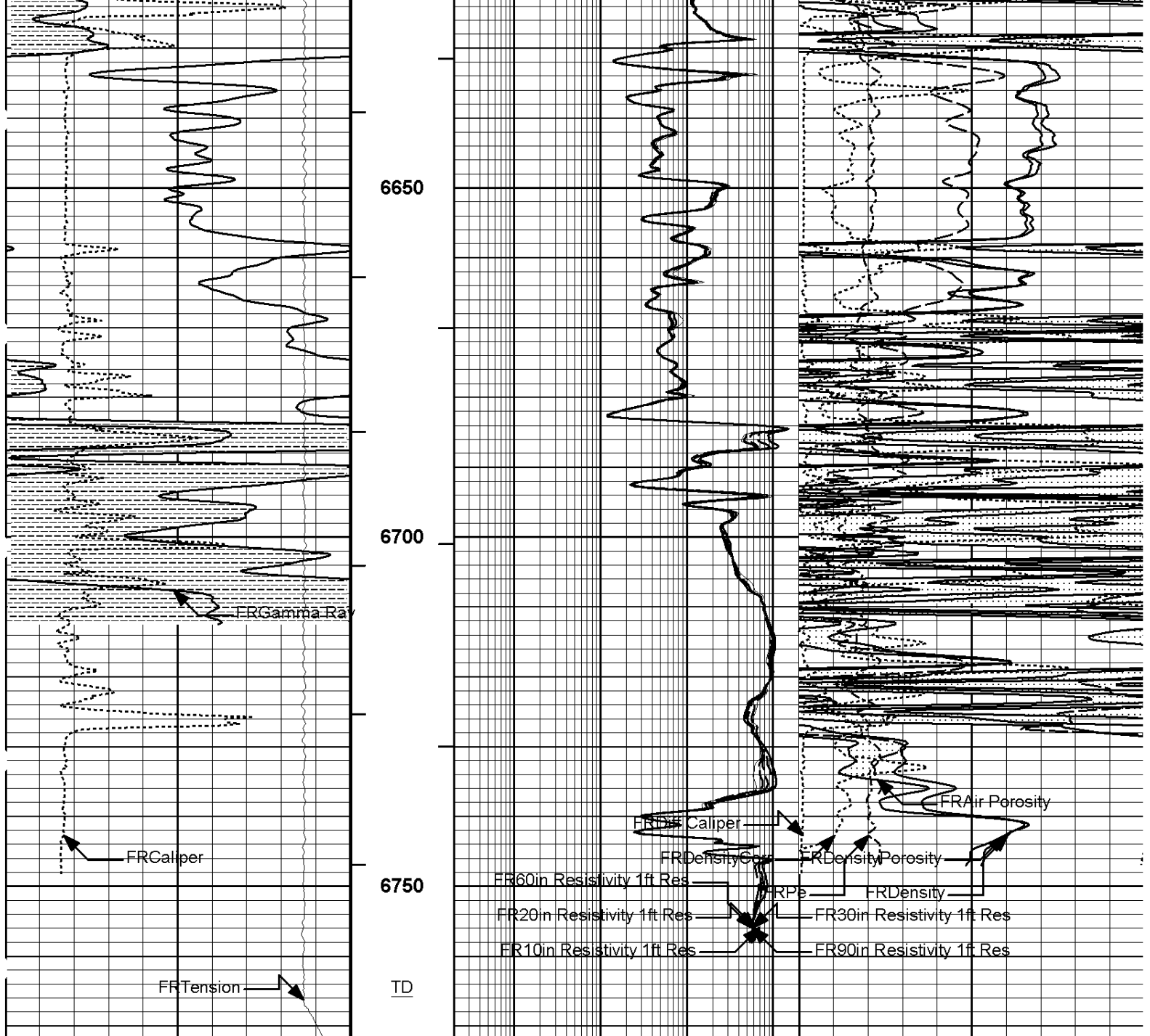












7	Caliper	17	MD	1 : 240	0.2	90in Resistivity 1ft Res	2K 0	10	Pe
	inches		ft			ohm-metre			barns/electron
21K	Tension	1K	BHVT		0.2	60in Resistivity 1ft Res	2K	-0.05	DensityCorr
	pounds					ohm-metre			gram per cc
0	Gamma Ray	200	AHVT		0.2	30in Resistivity 1ft Res	2K 2		Density
200	100	300				ohm-metre			gram per cc
	300	400			0.2	20in Resistivity 1ft Res	2K 0.3		Air Porosity
	api					ohm-metre			decp
					0.2	10in Resistivity 1ft Res	2K 0.3		DensityPorosity
						ohm-metre			decp
					-20				Diff Caliper
									inches
									20

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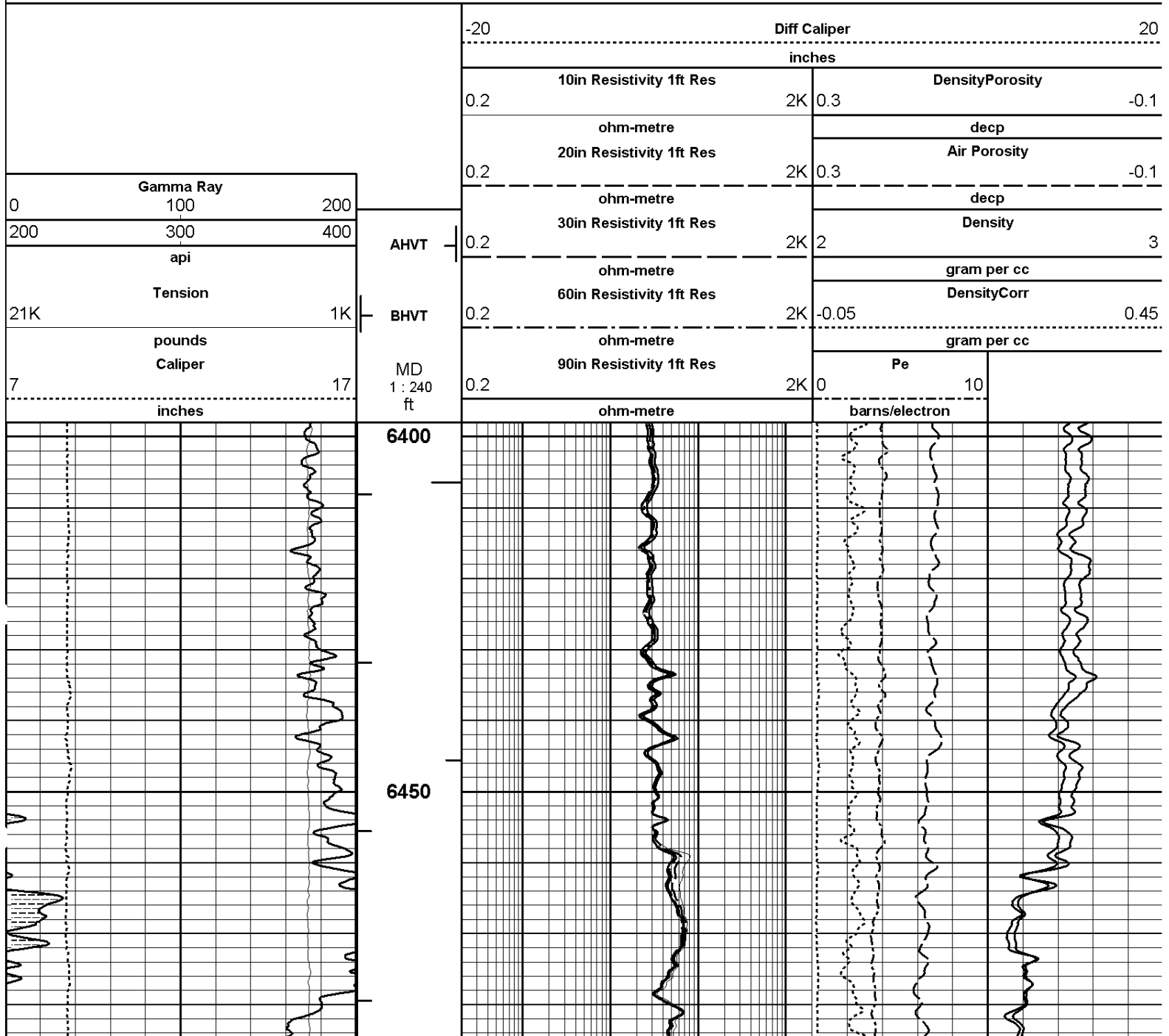
Plot Time: 05-Jun-10 01:50:31
 Plot Range: 3188 ft to 6771.92 ft
 Data: 4701705912_0604\Well Based\DAQ-0001-003*

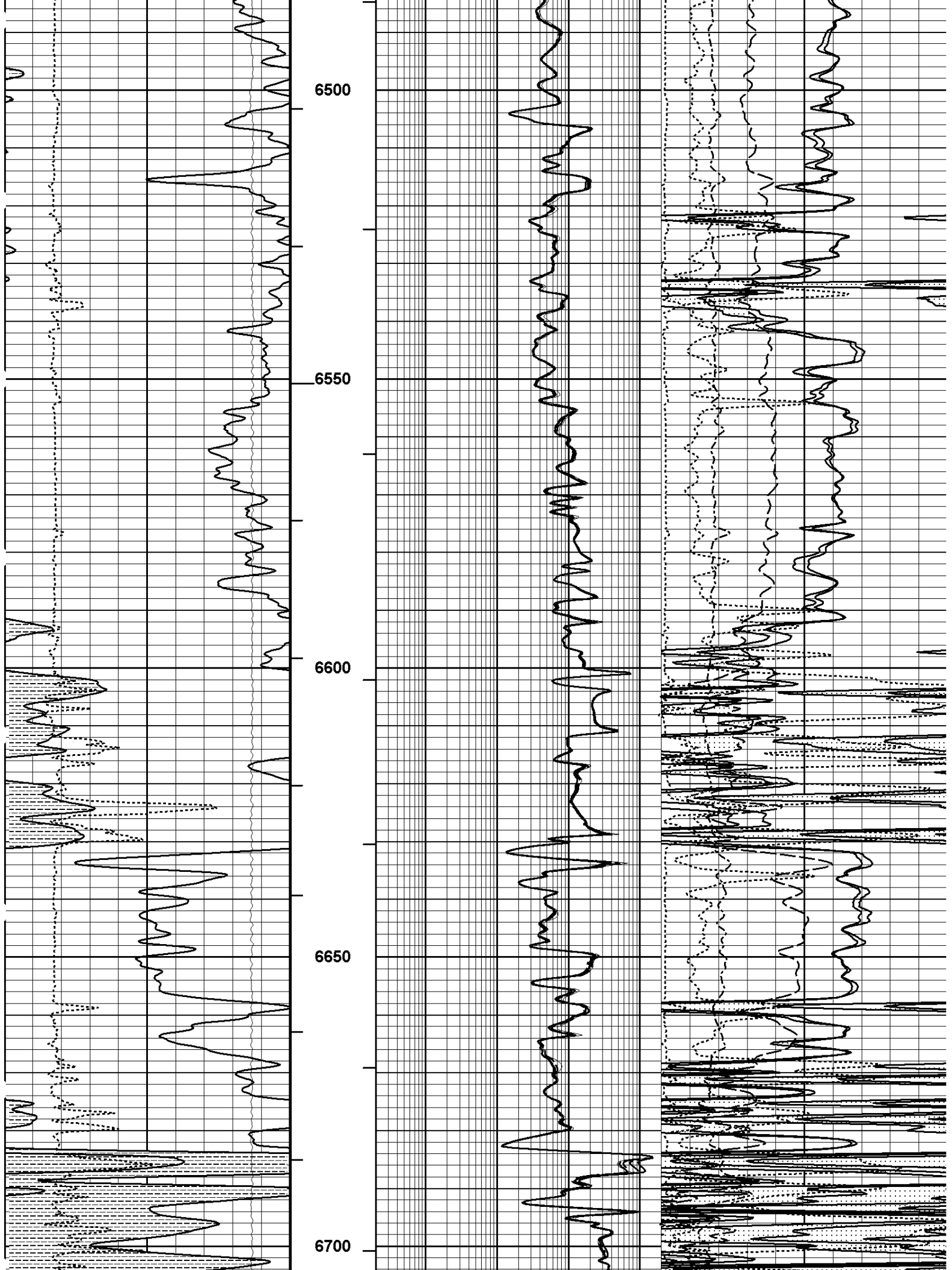
MAIN PASS 5" = 100'

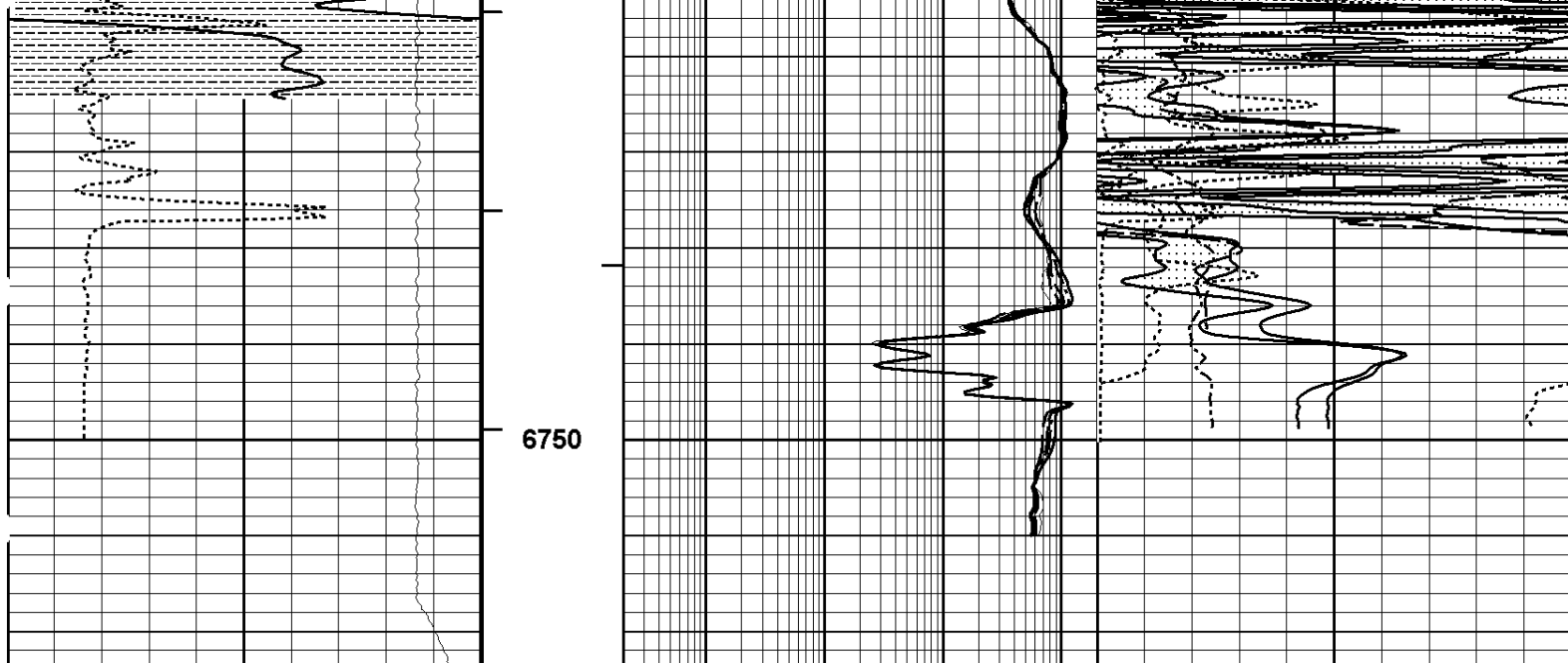
HALLIBURTON

Plot Time: 05-Jun-10 01:50:31
 Plot Range: 6398 ft to 6773.92 ft
 Data: 4701705912_0604\Well Based\DAQ-0001-002*
 Plot File: \\-LOCAL-4701705912_0531\0001 triplecombobhpt(not saved)\5in_IILC_ACRT_R_jmack

REPEAT PASS 5" = 100'







7	Caliper	17	MD	90in Resistivity 1ft Res	2K	0	Pe	10
	inches		1 : 240	ohm-metre			barns/electron	
21K	Tension	1K	ft	60in Resistivity 1ft Res	2K	-0.05	DensityCorr	0.45
	pounds			ohm-metre			gram per cc	
0	Gamma Ray	200	BHVT	30in Resistivity 1ft Res	2K	2	Density	3
	100			ohm-metre			gram per cc	
200	300	400	AHVT	20in Resistivity 1ft Res	2K	0.3	Air Porosity	-0.1
	api			ohm-metre			decp	
				10in Resistivity 1ft Res	2K	0.3	DensityPorosity	-0.1
				ohm-metre			decp	
				-20	Diff Caliper			20
					inches			

HALLIBURTON

Plot Time: 05-Jun-10 01:50:37
 Plot Range: 6398 ft to 6773.92 ft
 Data: 4701705912_0604\Well Based\DAQ-0001-002\
 Plot File: \\-LOCAL-4701705912_0531\0001 triplecombobhpt(not saved)\5in_IILC_ACRT_R_jmack

REPEAT PASS 5" = 100'

HALLIBURTON

PARAMETERS REPORT

Depth (ft)	Tool Name	Mnemonic	Description	Value	Units
TOP					
	SHARED	BS	Bit Size	8.500	in
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	MDWT	Borehole Fluid Weight	0.300	ppg
	SHARED	OBM	Oil Based Mud System?	No	
	SHARED	RMLUD	Mud Resistivity	2.000	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	84.0	degF
SHARED	TD	Total Well Depth	6762.00	ft
SHARED	BHT	Bottom Hole Temperature	200.0	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	
Rwa / CrossPlot	XPOK	Process Crossplot?	Yes	
Rwa / CrossPlot	FCHO	Select Source of F	Density	
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
Rwa / CrossPlot	ADP	Use Air Porosity to calculate CrossplotPhi	Yes	
GTET	GROK	Process Gamma Ray?	Yes	
GTET	GRSO	Gamma Tool Standoff	0.000	in
GTET	GEOK	Process Gamma Ray EVR?	No	
GTET	POTA	Potassium	0.00	%
GTET	MDTP	Mud Type	Natural	
GTET	TPOS	Tool Position	Standoff	
CSNG	CGOK	Process CSNG Data?	Yes	
CSNG	CENT	Is Tool Centralized?	No	
CSNG	MUDT	Mud Type?	Natural	
CSNG	KPCT	Percent K in Mud by Weight?	0.00	%
CSNG	GBOK	Gamma Enviromental Corrections?	Yes	
CSNG	BARF	Barite Correction Factor	1.00	
BHPT-I	CASO	Compute BHPT Results	Yes	
BHPT-I	TTMP	Internal Tool Temperature	0.0	degF
BHPT-I	TOLP	Tool Pressure	0.00	
BHPT-I	UFIN	Use fixed inclination?	Yes	
BHPT-I	DEVF	Fixed Inclination Value	0.0	deg
BHPT-I	TEME	Process High Resolution Temperature Tool?	Yes	
DSEN-I	DSEE	Process DSEN?	Yes	
DSEN-I	DEOK	Process DSEN EVR?	No	
DSEN-I	NLIT	Neutron Lithology	Limestone	
SDLT	DNOK	Process Density?	Yes	
SDLT	DNOK	Process Density EVR?	No	
SDLT	AD	Is Hole Air Drilled?	Yes	
SDLT	CB	Logging Calibration Blocks?	No	
SDLT	SPVT	SDLT Pad Temperature Valid?	Yes	
SDLT	DTWN	Disable temperature warning	No	
SDLT	MDTP	Weighted Mud Correction Type?	None	
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	

Logging Source S/N: 5227GW

Aluminum Block S/N: CARM.

Magnesium Block S/N: CARM.

Density: 2.609g/cc

Density: 1.683g/cc

Pe: 3.240

Pe: 2.594

DENSITY CALIBRATION SUMMARY

Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	0.9883	0.9808	0.90 - 1.10
Near Dens Gain	0.9853	0.9804	0.90 - 1.10
Near Peak Gain	0.9837	0.9807	0.90 - 1.10
Near Lith Gain	0.9635	0.9664	0.90 - 1.10
Far Bar Gain	1.0077	1.0088	0.90 - 1.10
Far Dens Gain	1.0004	0.9994	0.90 - 1.10
Far Peak Gain	0.9947	0.9926	0.90 - 1.10
Far Lith Gain	0.9717	0.9713	0.90 - 1.10
Near Bar Offset	-0.0094	0.0628	NONE
Near Dens Offset	-0.0307	0.0145	NONE
Near Peak Offset	-0.0425	-0.0167	NONE
Near Lith Offset	0.1076	0.0859	NONE
Far Bar Offset	-0.1877	-0.1973	NONE
Far Dens Offset	-0.1378	-0.1260	NONE
Far Peak Offset	-0.1276	-0.1086	NONE
Far Lith Offset	0.0099	0.0126	NONE
Near Bar Background	868.61	864.52	700 - 1450
Near Dens Background	283.45	283.33	230 - 480
Near Peak Background	124.04	122.44	100 - 210
Near Lith Background	154.15	153.53	125 - 260
Far Bar Background	544.95	544.07	450 - 900
Far Dens Background	213.56	214.02	175 - 345
Far Peak Background	85.09	85.61	70 - 140
Far Lith Background	88.49	87.73	75 - 145

CALIBRATION BLOCK SUMMARY

Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.684	1.683	-0.001	+/- 0.015
Pe	2.612	2.590	-0.022	+/- 0.150
ALUMINUM				
Density (g/cc)	2.609	2.609	-0.000	+/- 0.01500
Pe	3.243	3.237	-0.006	+/- 0.150

TOOL SUMMARY

Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	0.0003	+/- 0.0110	-0.0006	+/- 0.0140
Magnesium Block	0.0015	+/- 0.0110	-0.0014	+/- 0.0140
Aluminum Block	-0.0012	+/- 0.0110	0.0009	+/- 0.0140
Resolution	9.14	6.00 - 11.50	8.85	6.00 - 11.50
Internal Verifier(B+D+P+L)	1424	1200 - 2700	931	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 - I073P423	Reference Calibration Date: 15-Apr-10 09:29:51
Engineer: L. BUTLER JR.	Calibration Date: 15-Apr-10 09:34:55
Software Version: WL INSITE R3.0.3 (Build 5)	Calibration Version: 1

CALIBRATION COEFFICIENTS

Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-2490.47	-2509.69	-7000.00 - -1000.00
Pad Gain	0.0003901	0.0003889	0.000200 - 0.000600
Arm Offset	-2094.02	-2152.02	-5000.00 - 3000.00
Arm Gain	0.0004712	0.0004797	0.000300 - 0.000700
Arm Power	-0.000000001	-0.000000638	-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)	2.01	2.00	-0.01	+/- 0.20
Medium Ring (in)	3.77	3.75	-0.02	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.50	6.50	0.00	+/- 0.20
Medium Ring (in)	8.23	8.25	0.02	+/- 0.20
Large Ring (in)	15.00	15.00	0.00	+/- 0.20

PASS/FAIL SUMMARY

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

PASS/FAIL SUMMARY

Calibration-Coefficients Range Check:	Passed
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ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION

Tool Name: ACRT - I853S410	Reference Calibration Date: 20-May-10 10:57:05
Engineer: J.SERNA	Calibration Date: 20-May-10 11:03:42
Software Version: WL INSITE R3.0.3 (Build 5)	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	1.0015	1.05	0.95	1.0063	1.05	0.95	1.0039	1.05
A2 (50")	0.95	1.0075	1.05	0.95	1.0127	1.05	0.95	1.0132	1.05
A3 (29")	0.95	1.0020	1.05	0.95	1.0070	1.05	0.95	1.0062	1.05

A4 (17")	0.95	0.9949	1.05	0.95	0.9984	1.05	0.95	1.0013	1.05
A5 (10")	N/A	N/A	N/A	0.95	0.9977	1.05	0.95	1.0004	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9800	1.05	0.95	0.9829	1.05

TYPICAL SONDE OFFSET RANGE

Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	-5	-1.431	2	-6	-4.273	-2	-8	-4.871	-2
A2 (50")	-7	-3.328	-2	-6	-4.194	-2	-7	-4.139	-2
A3 (29")	-27	-6.634	-9	-9	-1.927	-3	-7	-2.629	-1
A4 (17")	-180	-107.738	-60	-45	-33.856	-15	-39	-25.634	-13
A5 (10")	N/A	N/A	N/A	-150	-71.456	-50	-80	-34.056	-10
A6 (6")	N/A	N/A	N/A	175	253.917	525	90	134.020	270

TRANSMITTER CURRENT GAIN

Signal	Lower	R	Upper
12K	0.6	0.9681	1.3
36K	1.0	1.2617	2.0
72K	1.0	1.4573	2.0

R-MUD VERIFICATION

Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
Mud Cell	0.95	1.002	1.05

CALIBRATION SUMMARY

Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-070						
Gamma Ray Calibrator	244.2	-----	-----	0.0	+/- 9.00	api
DSEN-I-789_S415						
Short Space Porosity	0.46	-----	-----	0.00	+/- 0.7	decp
Long Space Porosity	0.09	-----	-----	0.00	+/- 0.3	decp
SDLT-I073P423						
Near(B+D+P+L)	1423.820	-----	-----	0.000	+/-13.324	cps
Far(B+D+P+L)	931.427	-----	-----	0.000	+/-14.968	cps
Pad Extension	3.75	-----	-----	0.00	+/-0.20	in
Ring Diameter	8.25	-----	-----	0.00	+/-0.20	in
ACRt-I853S410						
Mud Cell	1.002	-----	-----	0.000	-----	ohm-m

Data: 4701705912_0604\0001 air triple combo w csng bhpt\IDLE

Date: 04-Jun-10 22:16:15

HALLIBURTON

CUSTOMER EVENT LOG

Event Type	Time & Date	Depth (ft)	Event Description
	04-Jun-10 22:41:19	3031.25	Logging 001 04-Jun-10 22:41 Dn @3031.3f
	04-Jun-10 23:31:34	6773.80	Halting 001 04-Jun-10 22:41 Dn @3031.3f
	04-Jun-10 23:32:54	6774.25	Logging 002 04-Jun-10 23:32 Up @6774.3f
	04-Jun-10 23:47:59	6328.62	Halting 002 04-Jun-10 23:32 Up @6774.3f
	04-Jun-10 23:57:33	6772.25	Logging 003 04-Jun-10 23:57 Up @6772.3f
	05-Jun-10 01:37:17	2636.24	Halting 003 04-Jun-10 23:57 Up @6772.3f

Data: 4701705912_0604\0001 air triple combo w csng bhpt\HWI0855

Date: 05-Jun-10 01:42:05

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
Cable Head Tension-Hostile 30.00 lbs		Ø 3.625 in →		← Load Cell @ 65.74 ft	3.08 ft	67.82 ft
GTET-070 165.00 lbs		Ø 3.625 in →		← GammaRay @ 58.67 ft	8.52 ft	64.74 ft
CSNG-023 114.00 lbs		Ø 3.625 in →		← CSNG @ 50.59 ft	8.17 ft	56.22 ft
BHPT-I-11420829 140.00 lbs		Ø 3.375 in →		↙ Temperature @ 43.86 ft ↙ Resistivity @ 43.73 ft ↙ Pressure @ 43.48 ft ← Audio @ 42.54 ft	6.77 ft	48.05 ft
DSEN-I-789_S415 174.00 lbs	DSN Decentralizer- 789_S415 6.60 lbs	Ø 3.625 in* → Ø 3.625 in →		← DSEN Far @ 34.34 ft ← DSEN Near @ 33.59 ft	9.69 ft	41.28 ft
SDLT-I073P423 360.00 lbs		Ø 4.500 in → Ø 4.750 in →		↙ SDL Microlog @ 23.78 ft ↙ SDL Caliper @ 23.60 ft ↙ SDL @ 23.59 ft	10.81 ft	31.59 ft
						20.78 ft

ACRt-I853S410
250.00 lbs

Ø 3.625 in →

← Mud Resistivity @ 14.39 ft

← ACRt @ 10.41 ft

19.25 ft

SP Ring-I353S304
0.00 lbs

Ø 3.625 in* →

← SP @ 2.81 ft

TEMP SUB-METAL
20.00 lbs

Ø 0.000 in →

0.95 ft

1.53 ft

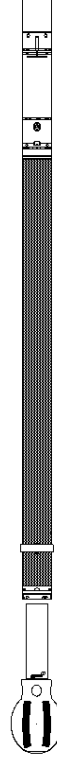
Cabbage Head-103
10.00 lbs

Ø 3.625 in →
Ø 6.000 in →

0.58 ft

0.58 ft

0.00 ft



Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
CHT	Cable Head with Load Cell	Hostile	30.00	3.08	64.74	300.00
GTET	Gamma Telemetry Tool	070	165.00	8.52	56.22	60.00
CSNG	Compensated Spectral Natural Gamma	023	114.00	8.17	48.05	15.00
BHPT	Borehole Properties Tool - Insite	11420829	140.00	6.77	41.28	100.00
DSEN-IB	Dual Spaced Epithermal Neutron	789_S415	174.00	9.69	31.59	60.00
DCNT	DSN Decentralizer	789_S415	6.60	5.13	34.92	300.00
SDLT	Spectral Density Tool	I073P423	360.00	10.81	20.78	60.00
ACRt	Array Compensated True Resistivity	I853S410	250.00	19.25	1.53	300.00
SP	SP Ring	I353S304	0.00	0.25	2.81	300.00
TMSB	TEM SUB METAL	METAL	20.00	0.95	0.58	100.00
CBHD	Cabbage Head	103	10.00	0.58	0.00	300.00
Total			1,269.60	67.82		

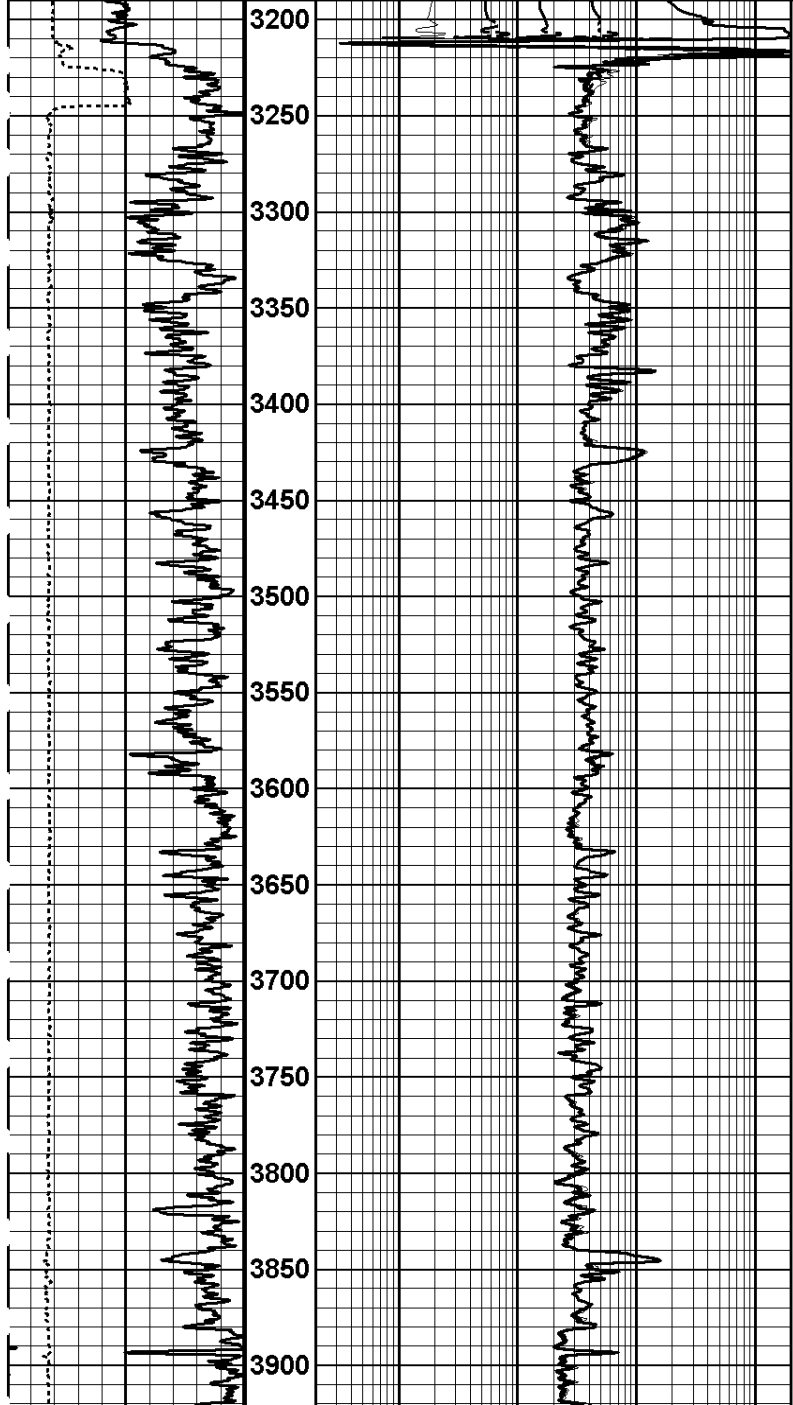
* Not included in Total Length and Length Accumulation.

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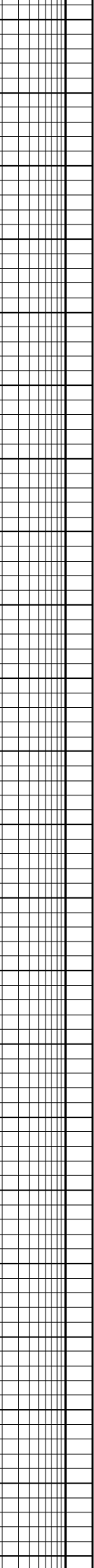
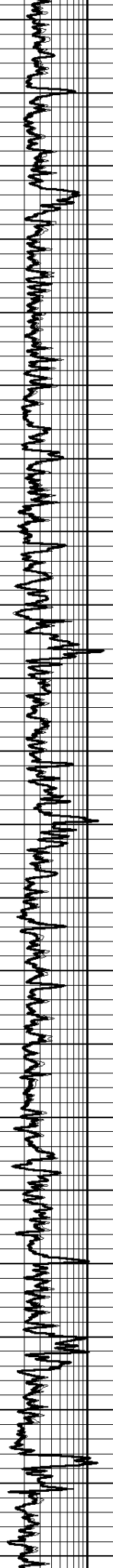
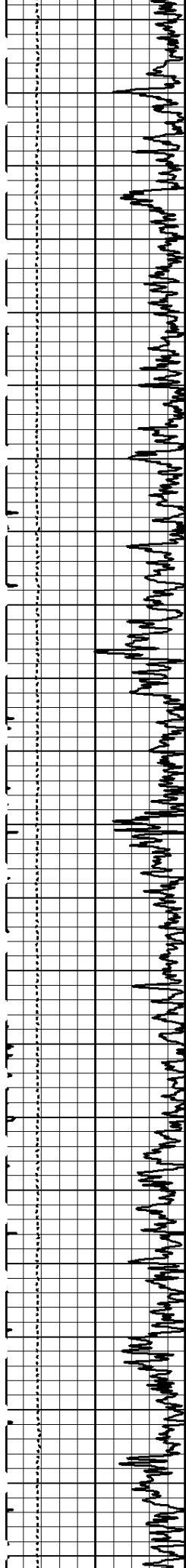
COMPANY	EQT PRODUCTION COMPANY		
WELL	WV 512513		
FIELD	WESTON		
COUNTY	DODDRIDGE	STATE	WEST VIRGINIA
HALLIBURTON		ARRAY COMP RESISTIVITY SPECTRAL DENSITY DUAL SPACED EPITHERMAL NEUTRON LOG	

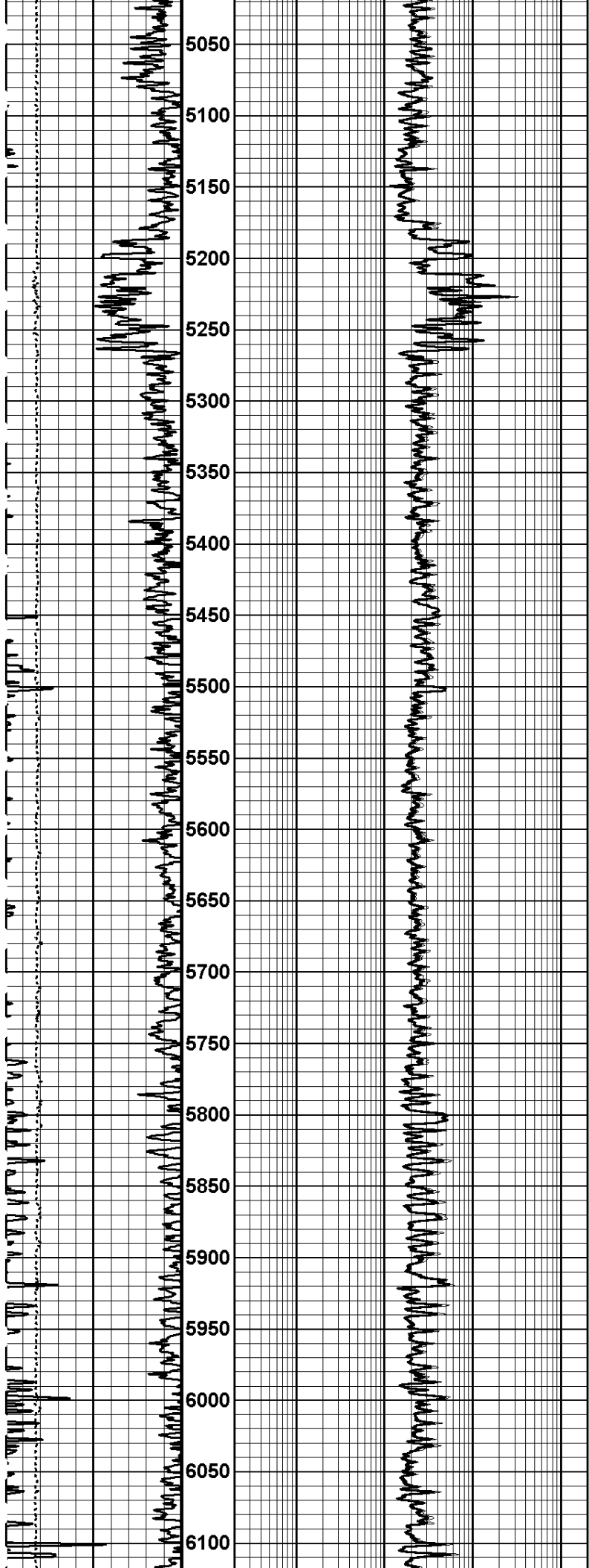
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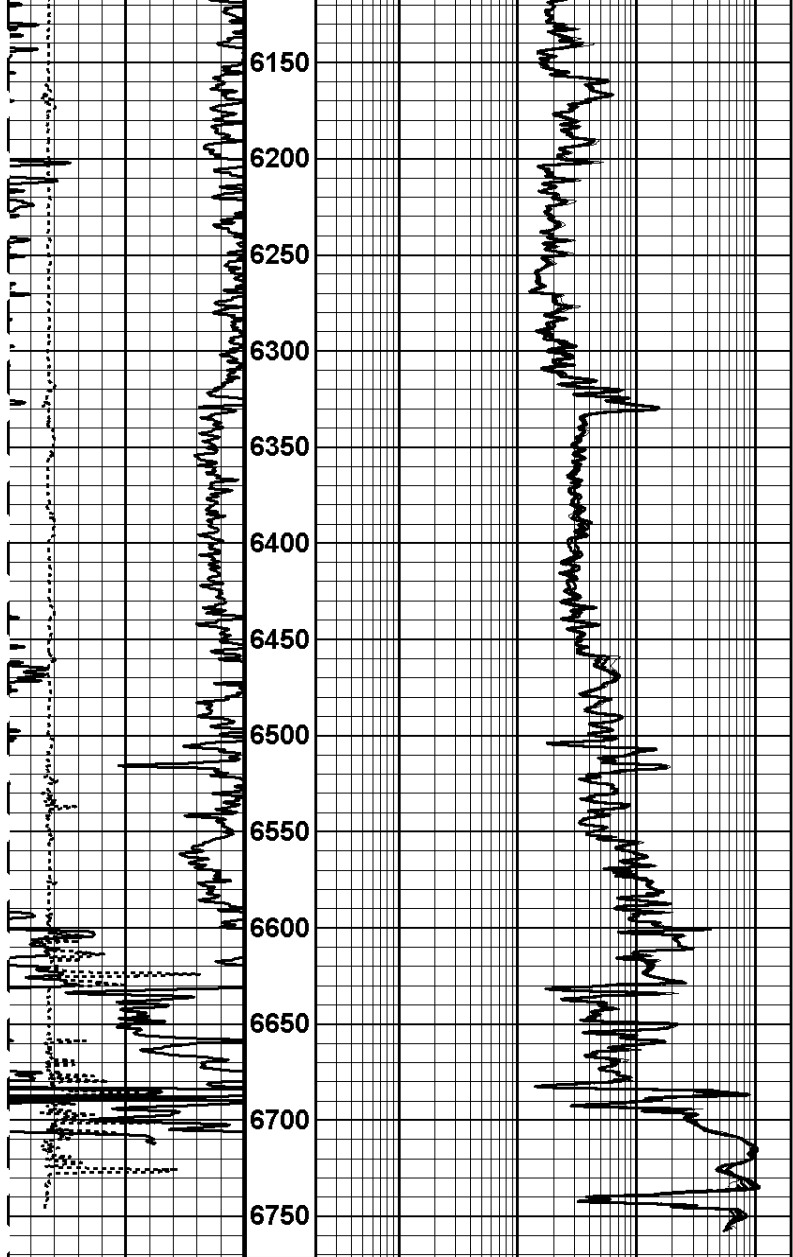
		10in Resistivity 2ft Res		0.2	2K
		ohm-metre			
		20in Resistivity 2ft Res		0.2	2K
		ohm-metre			
		30in Resistivity 2ft Res		0.2	2K
		ohm-metre			
		60in Resistivity 2ft Res		0.2	2K
		ohm-metre			
		90in Resistivity 2ft Res		0.2	2K
		ohm-metre			
Gamma Ray 0 100 200 200 300 400		MD 1: 1200 ft			
api Caliper 7 17					
inches					



3950
4000
4050
4100
4150
4200
4250
4300
4350
4400
4450
4500
4550
4600
4650
4700
4750
4800
4850
4900
4950
5000







Caliper	MD	90in Resistivity 2ft Res	0.2	2K
7	1: 1200	ohm-metre		
17	ft	60in Resistivity 2ft Res	0.2	2K
inches		ohm-metre		
Gamma Ray		30in Resistivity 2ft Res	0.2	2K
0 100 200		ohm-metre		
200 300 400		20in Resistivity 2ft Res	0.2	2K
api		ohm-metre		
		10in Resistivity 2ft Res	0.2	2K
		ohm-metre		

HALLIBURTON

Plot Time: 05-Jun-10 01:50:40
 Plot Range: 3190 ft to 6771.92 ft
 Data: 4701705912_0604\Well Based\DAQ-0001-003*
 Plot File: \\-LOCAL-4701705912_0531\0001 triplecombobhpt(not saved)\1in_ACRT_M_jmack

MAIN PASS 1" = 100'

