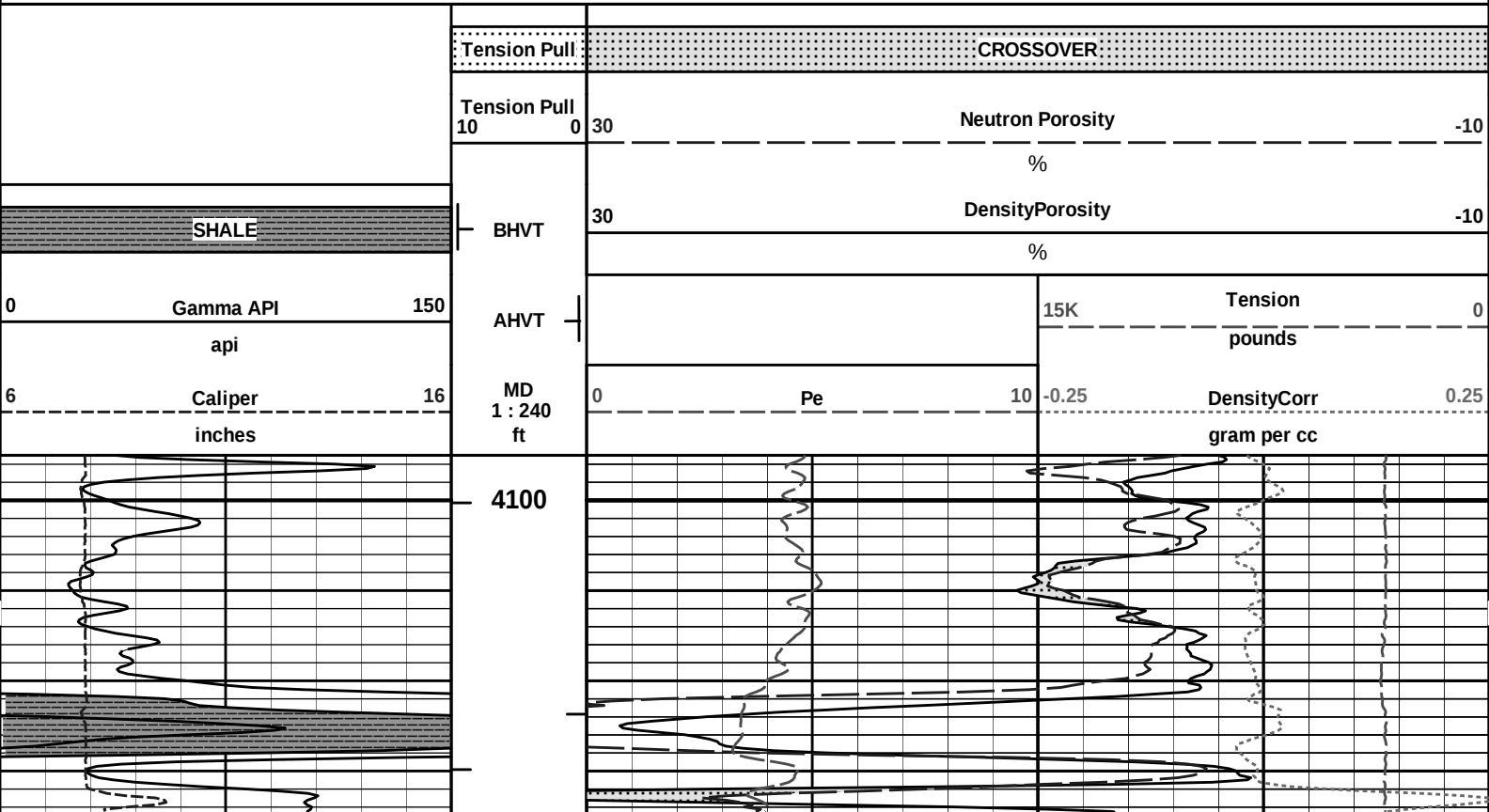


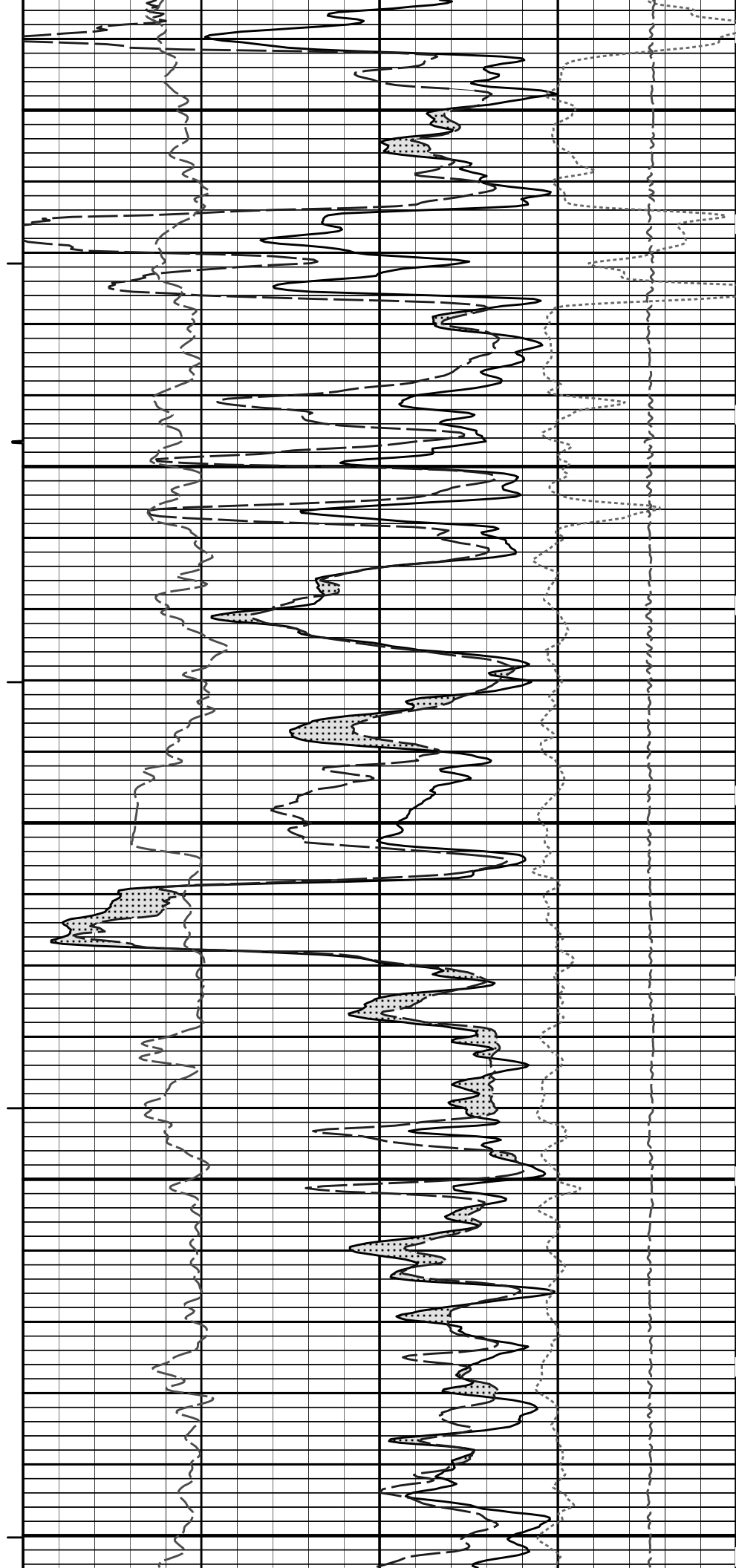
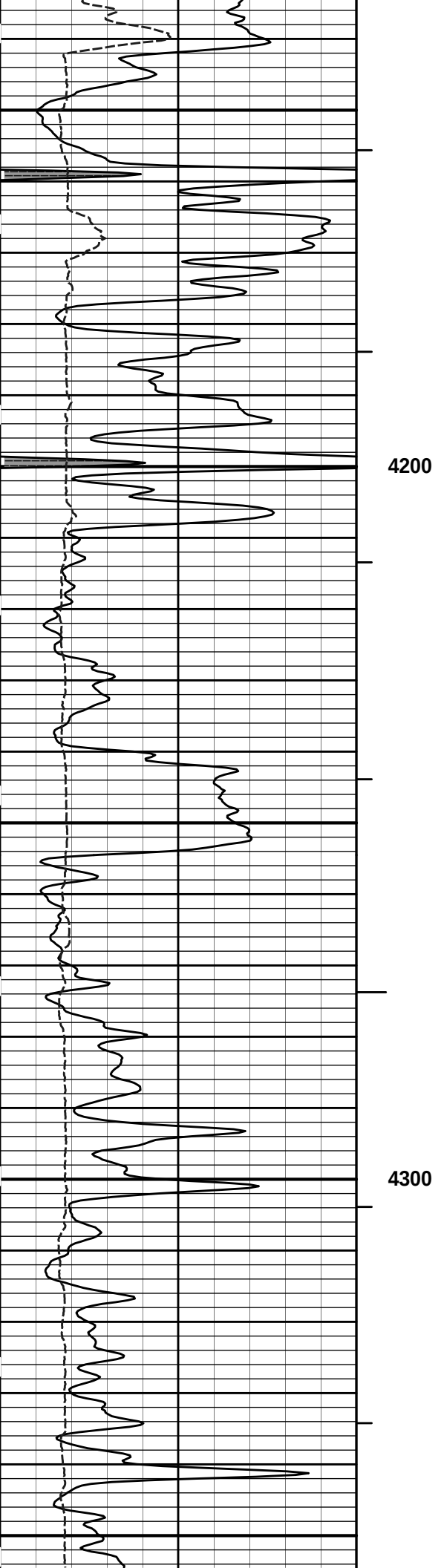
HALLIBURTON

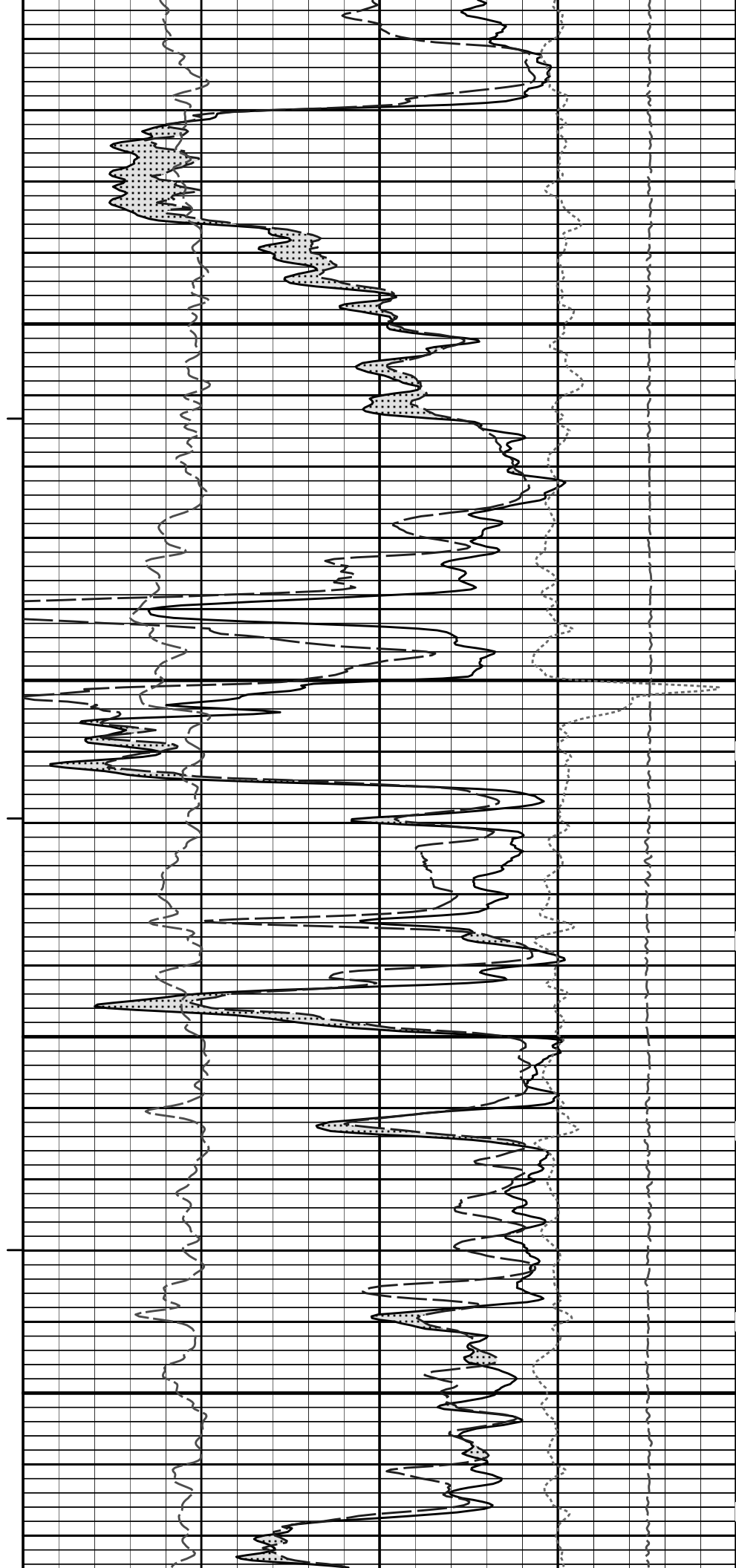
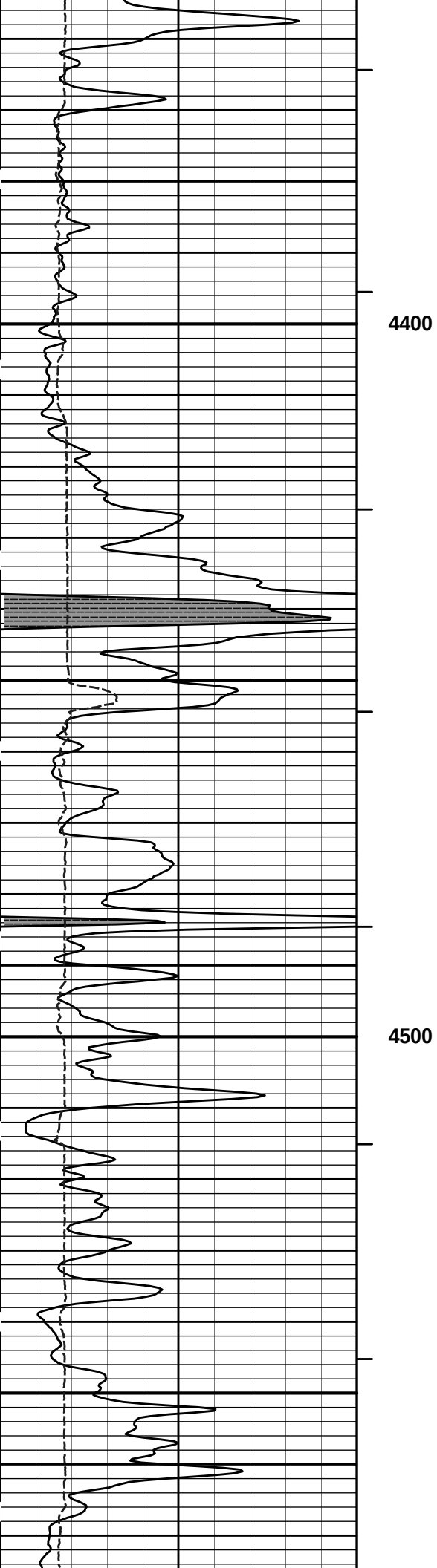
SPECTRAL DENSITY DUAL SPACED NEUTRON LOG

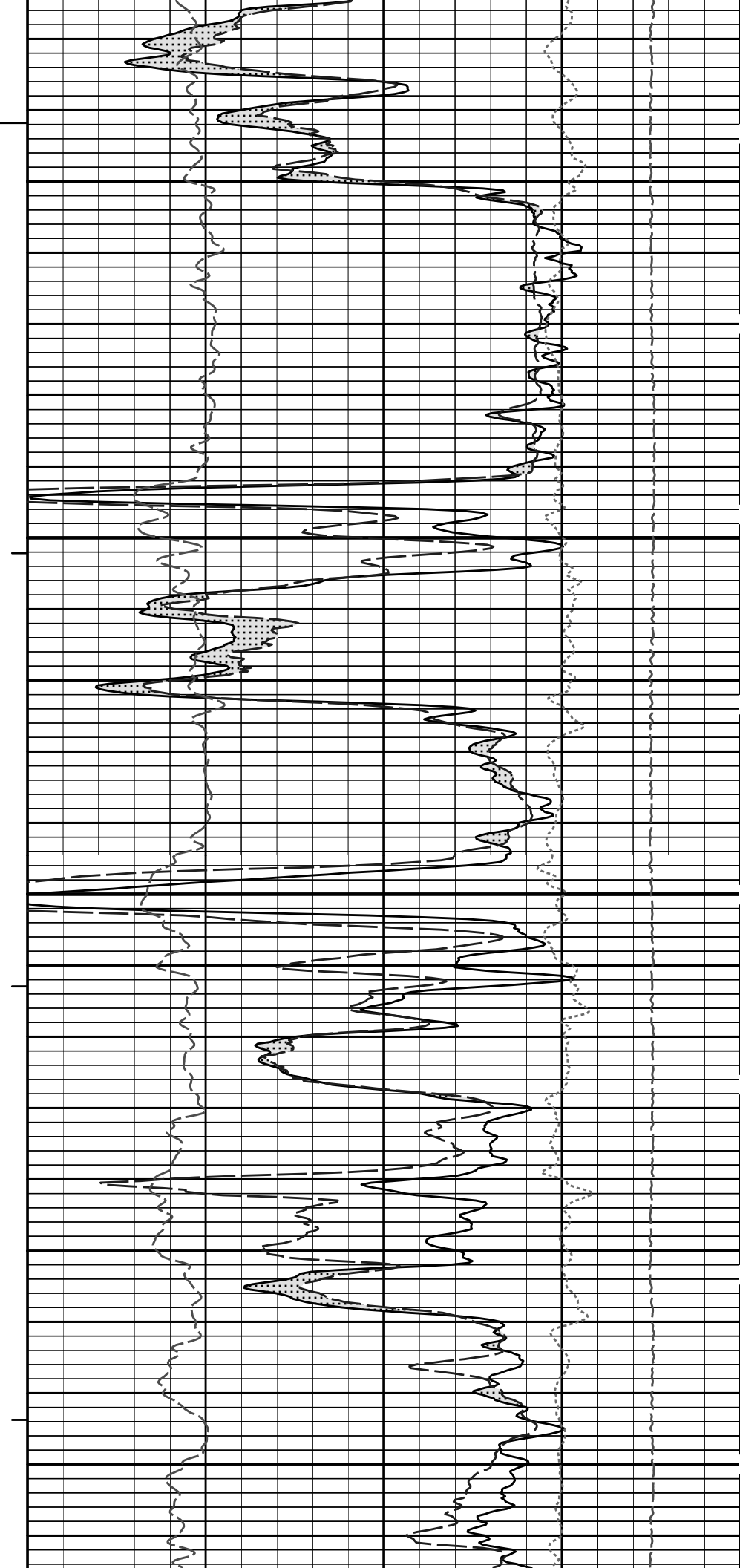
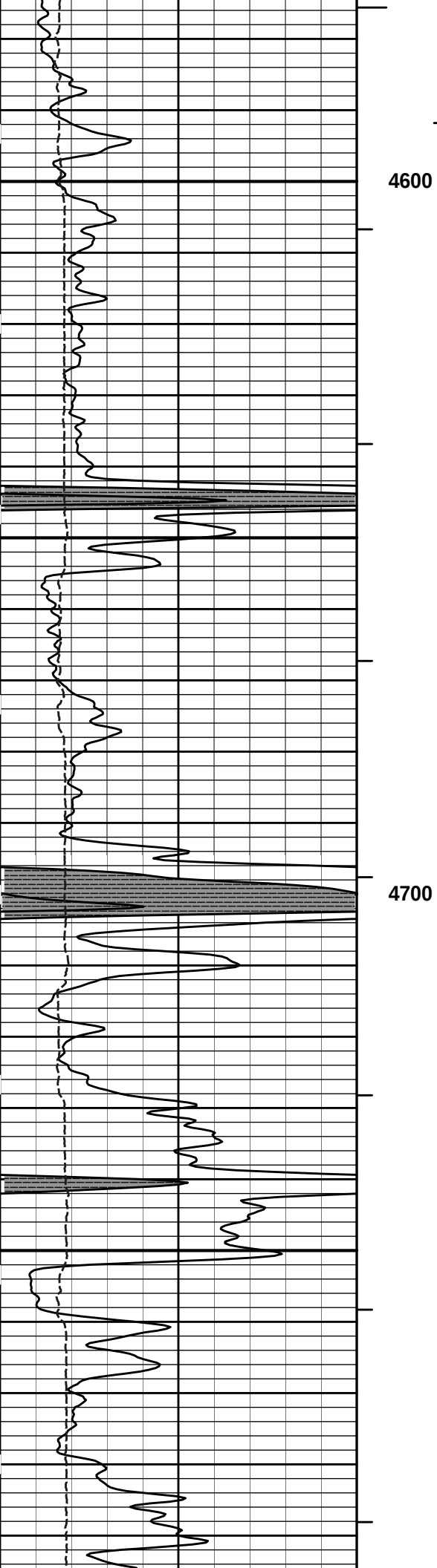
COMPANY		OXY USA INC.	
WELL		DEWELL B-1	
FIELD/BLOCK		VICTORY	
COUNTY		HASKELL	
STATE		KANSAS	
Permanent Datum		G.L.	
Log measured from		KB	
Drilling measured from		KB	
Date		01-Sep-13	
Run No.		ONE	
Depth - Driller		5784.00 ft	
Depth - Logger		5770.0 ft	
Bottom - Logged Interval		5726	
Top - Logged Interval		4100	
Casing - Driller		8.625 in @ 1603.0 ft	
Casing - Logger		1599.0 ft	
Bit Size		7.875 in @	
Type Fluid in Hole		WATER BASED	
Density		9.2 ppg 48.00 s/qt	
PH		10.20 pH 6.0 cp/m	
Source of Sample		MUD PIT	
Rm @ Meas. Temperature		1.090 ohmm @ 85.00 degF @	
Rmf @ Meas. Temperature		0.93 ohmm @ 85.00 degF @	
Rmc @ Meas. Temperature		1.250 ohmm @ 85.00 degF @	
Source Rmf		CALCULATED	
Rm @ BHT		0.69 ohmm @ 138.0 degF @	
Time Since Circulation		14.5 hr	
Time on Bottom		02-Sep-13 01:34	
Max. Rec. Temperature		138.0 degF @ 5770.0 ft @	
Equipment		11072142 LIBERAL	
Recorded By		SHELDON INGERSOLL	
Witnessed By		M. BONNER	

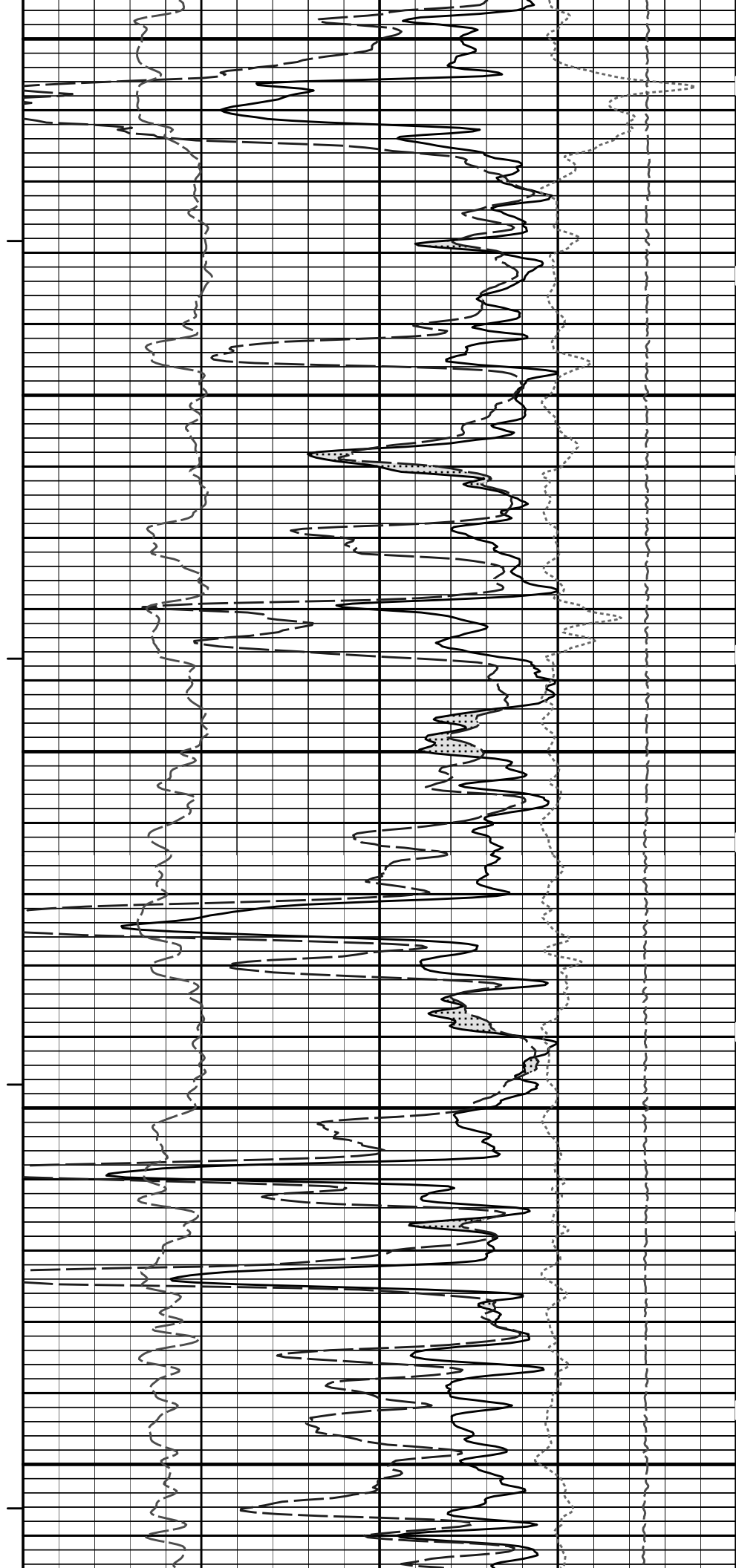
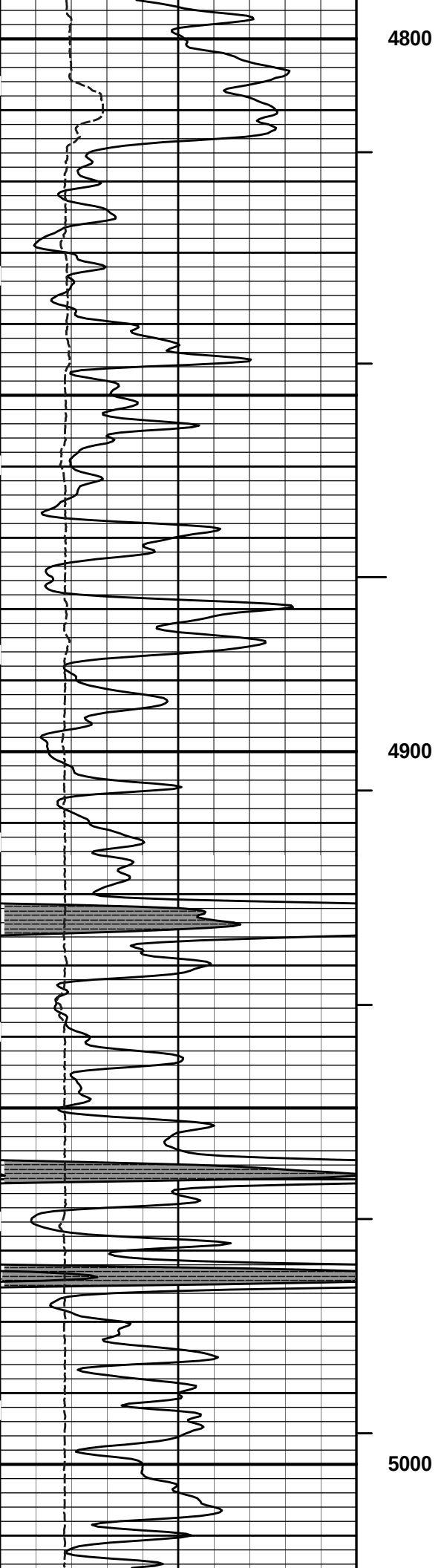
Service Ticket No.: 900707138				API Serial No.: 15081220300000				PGM Version: WL INSITE R3.8.4 (Build 5)							
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE						RESISTIVITY SCALE CHANGES									
Date		Sample No.				Type Log		Depth		Scale Up Hole		Scale Down Hole			
Depth-Driller															
Type Fluid 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.		@		@		ONE		ACRT		N/A		CENT			
Rmc @ Meas. Temp.		@		@				11055059							
Source Rmf		Rmc				ONE		HFDT				ECCENT			
Rm @ BHT		@		@				11997111							
Rmf @ BHT		@		@											
Rmc @ BHT		@		@											
EQUIPMENT DATA															
GAMMA				ACOUSTIC				DENSITY				NEUTRON			
Run No.		ONE		Run No.		ONE		Run No.		ONE		Run No.		ONE	
Serial No.		11048627		Serial No.		10747683		Serial No.		10844781		Serial No.		11019643	
Model No.		GTET		Model No.		BSAT		Model No.		SDLT		Model No.		DSNT	
Diameter		3.625"		No. of Cent.		2		Diameter		5.3"		Diameter		3.625"	
Detector Model No.		T-102		Spacing		.5'		Log Type		GAM-GAM		Log Type		NEU-NEU	
Type		SCINT						Source Type		CS-137		Source Type		AM-241BE	
Length		8"		LSA [Y/N]				Serial No.		5168GW		Serial No.		DSN-424	
Distance to Source		N/A		FWDA [Y/N]				Strength		1.5 CI		Strength		15 CI	
LOGGING DATA															

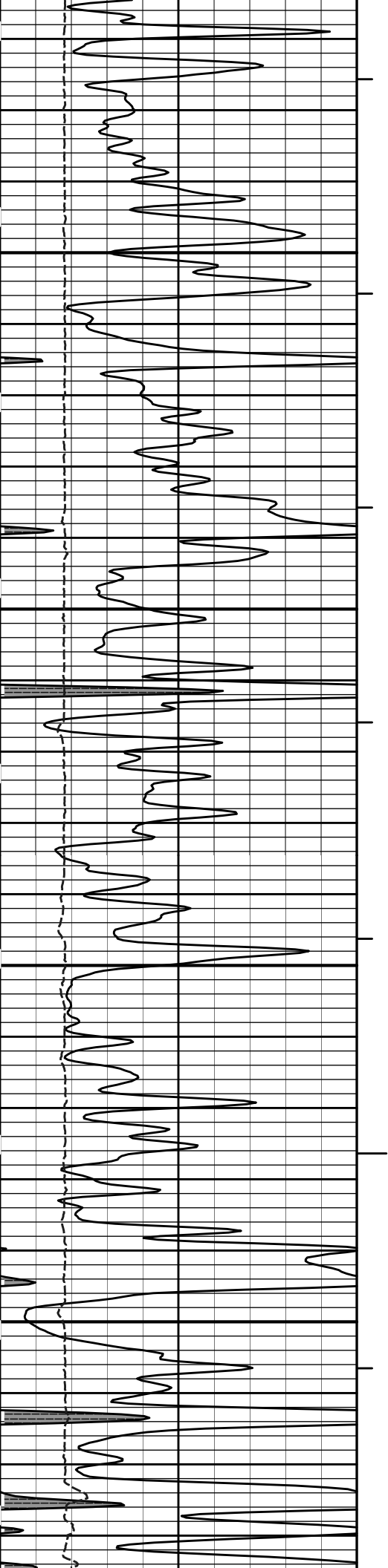






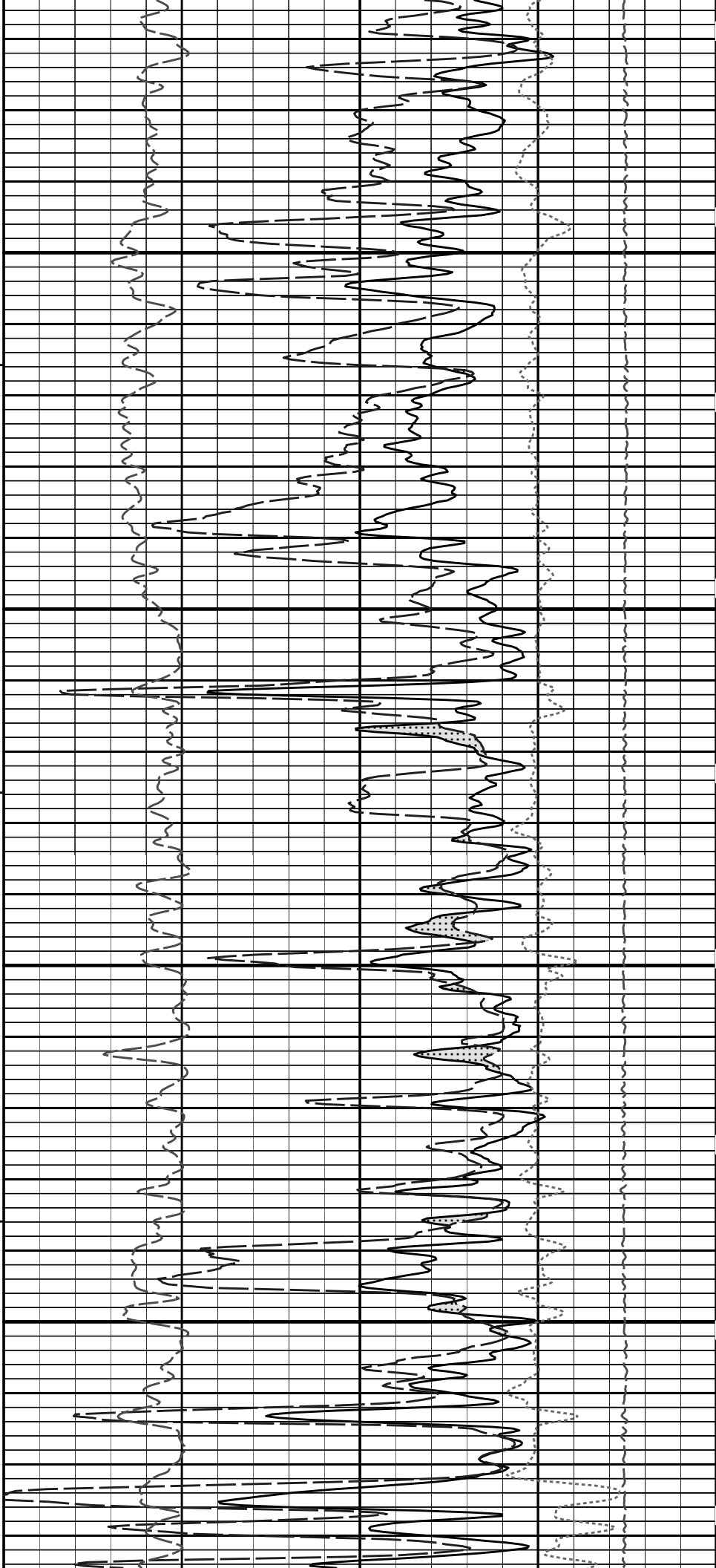


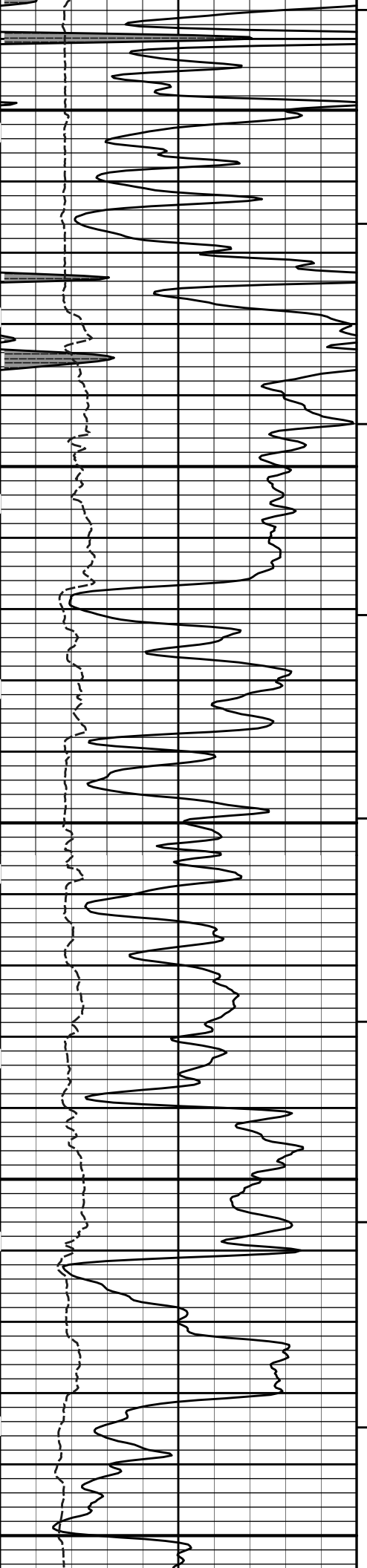




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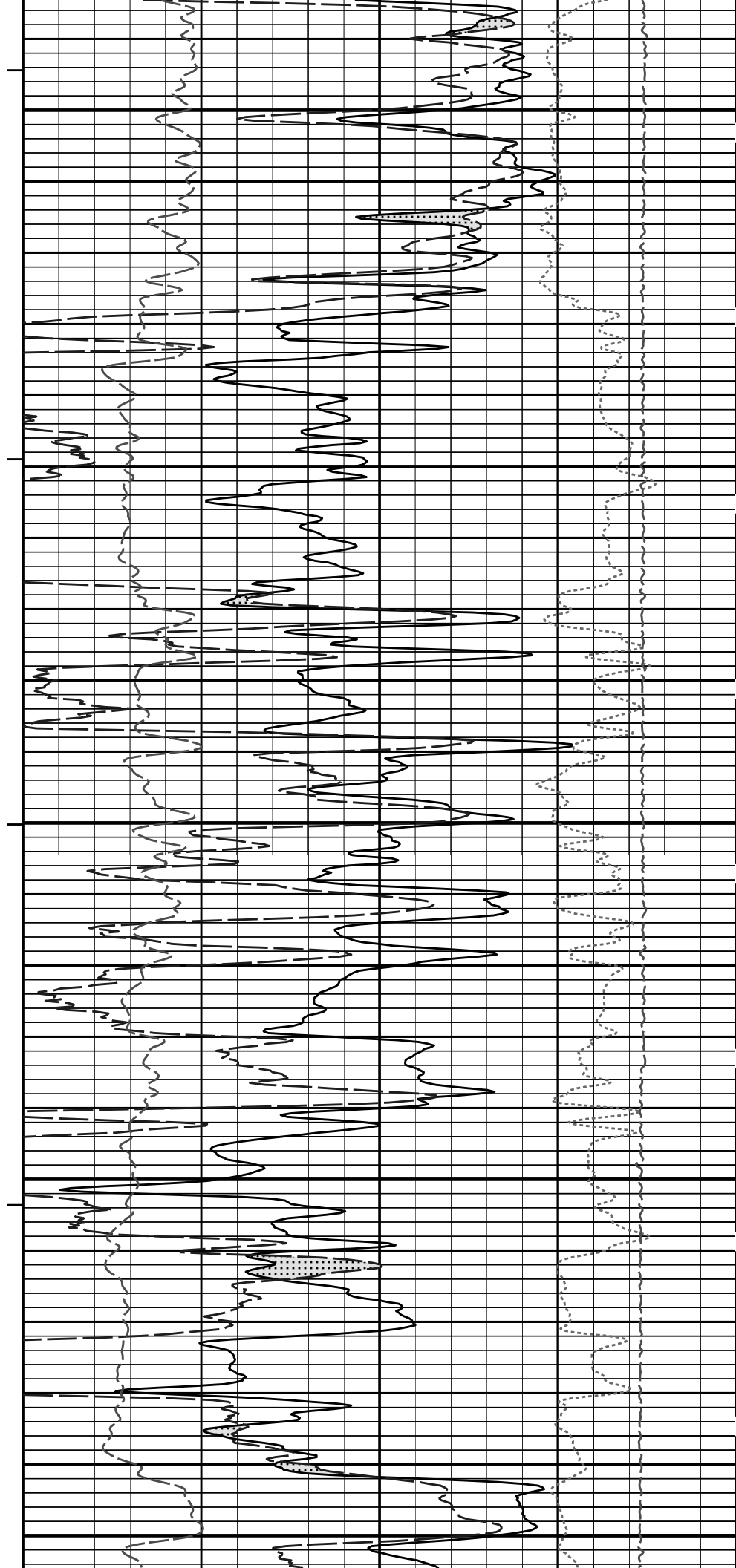
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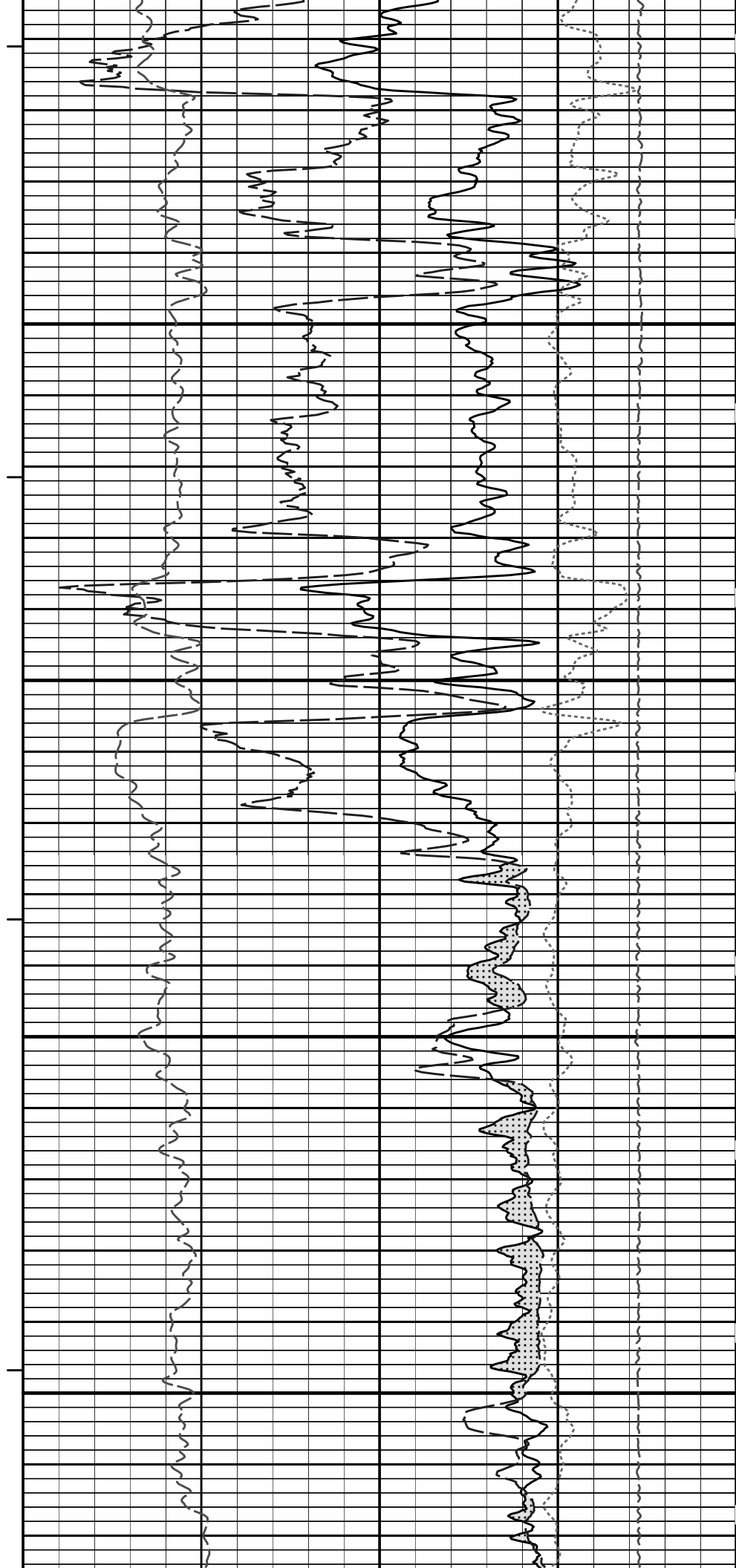
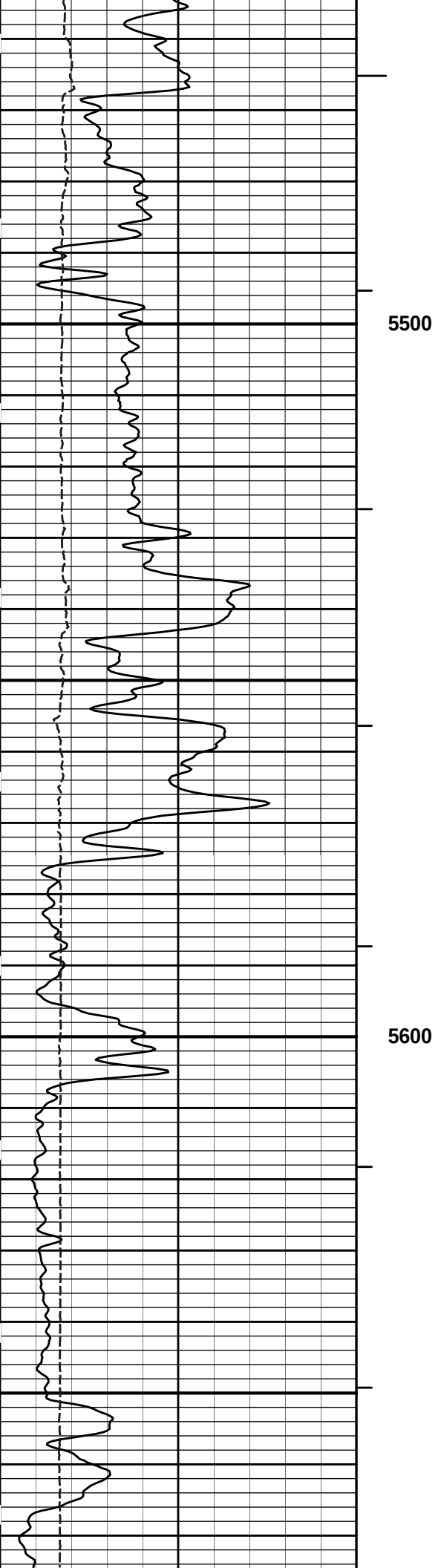




5300

5400





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

HALLIBURTON

Plot Time: 02-Sep-13 06:52:44
Plot Range: 4095 ft to 5773.08 ft
Data: DEWELL B-1\Well Based\RI DETAIL
Plot File: \IPOROSITY\Porosity_Q_5_MAIN_LIB

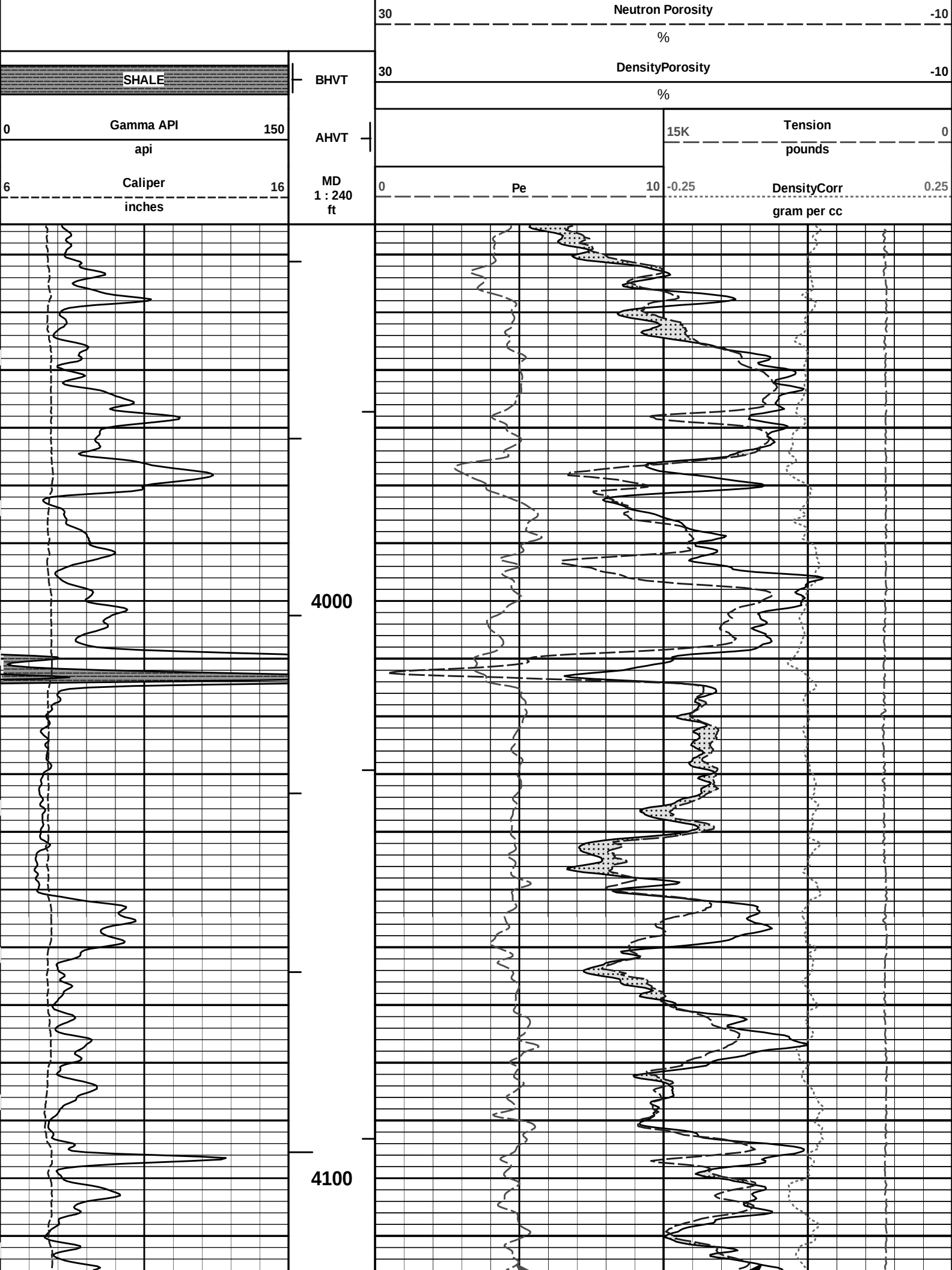
5 INCH MAIN LOG

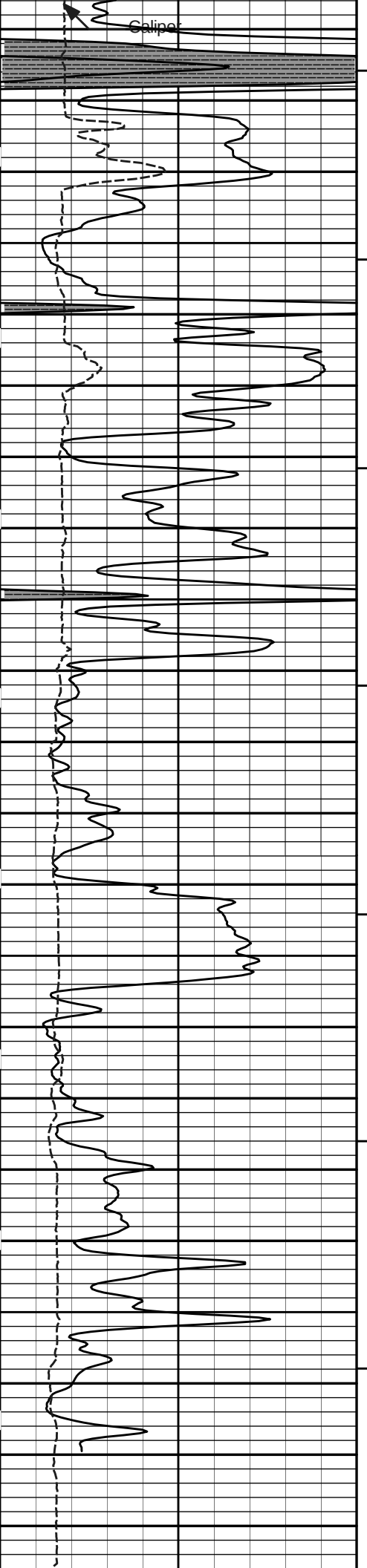
HALLIBURTON

Plot Time: 02-Sep-13 06:52:44
Plot Range: 3934.75 ft to 4400.42 ft
Data: DEWELL B-1\Well Based\IR1 REPEAT\IR1
Plot File: \\POROSITY\Porosity_Q_5_REP_LIB

REPEAT SECTION

	CROSSOVER

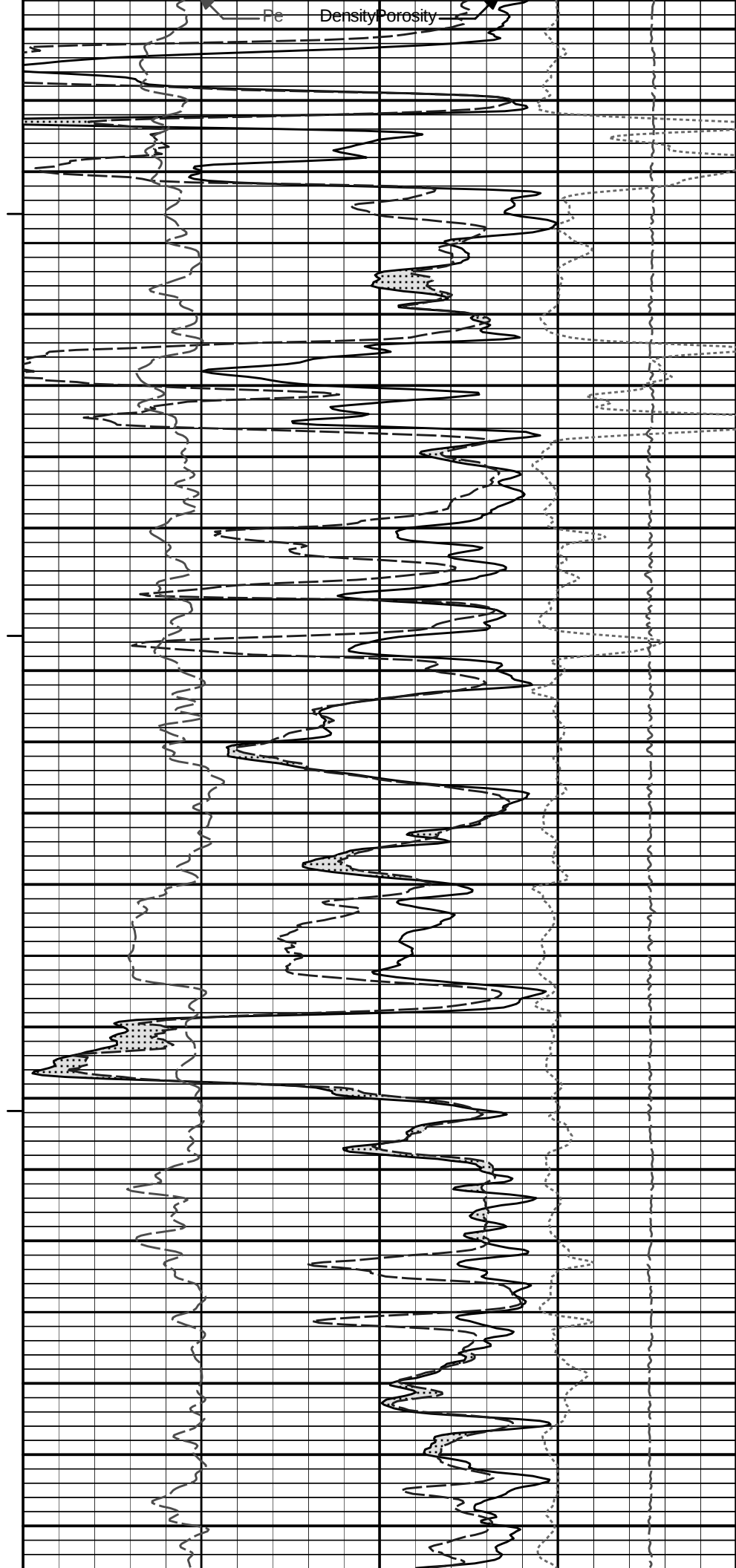




Galiper

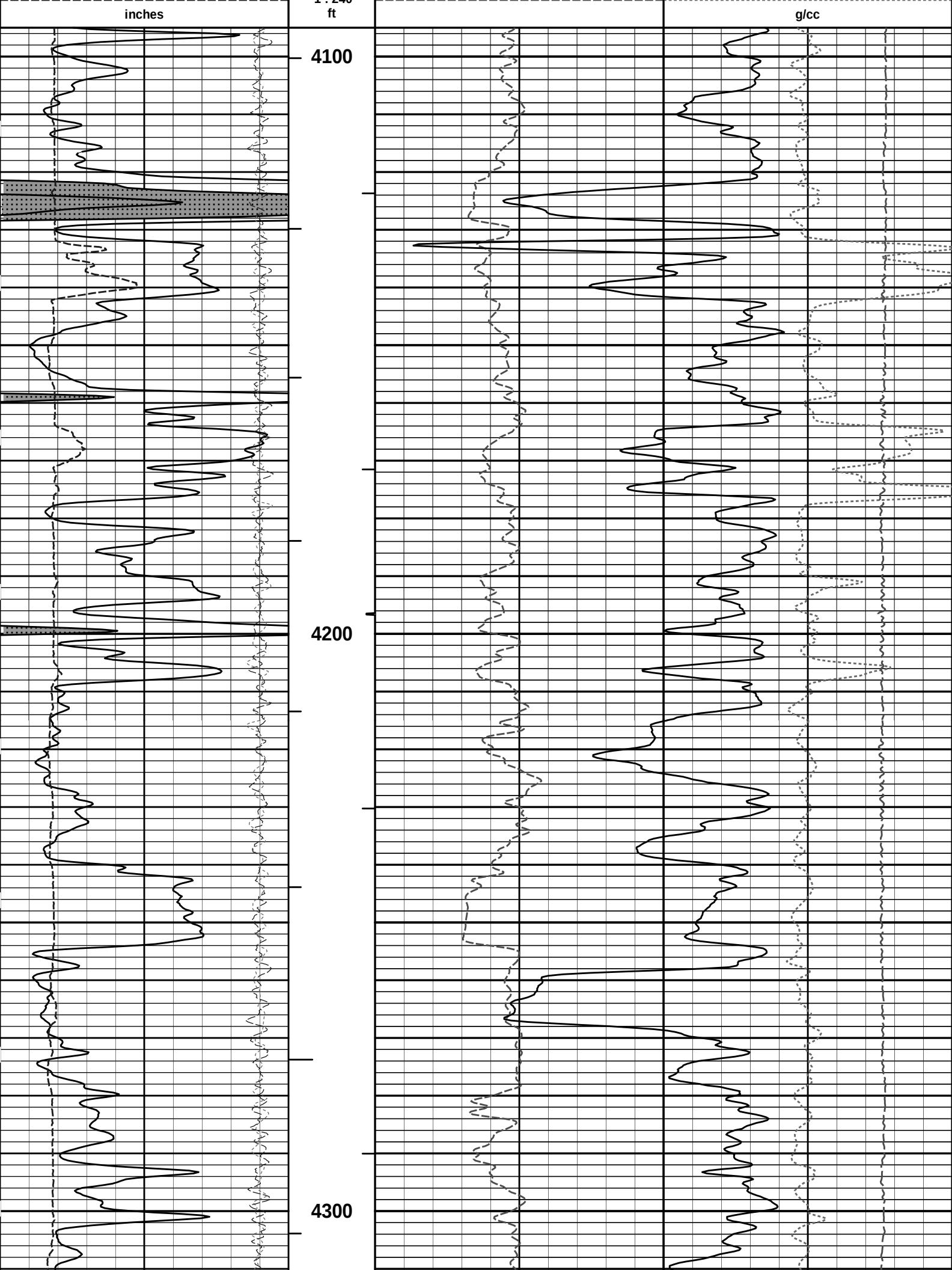
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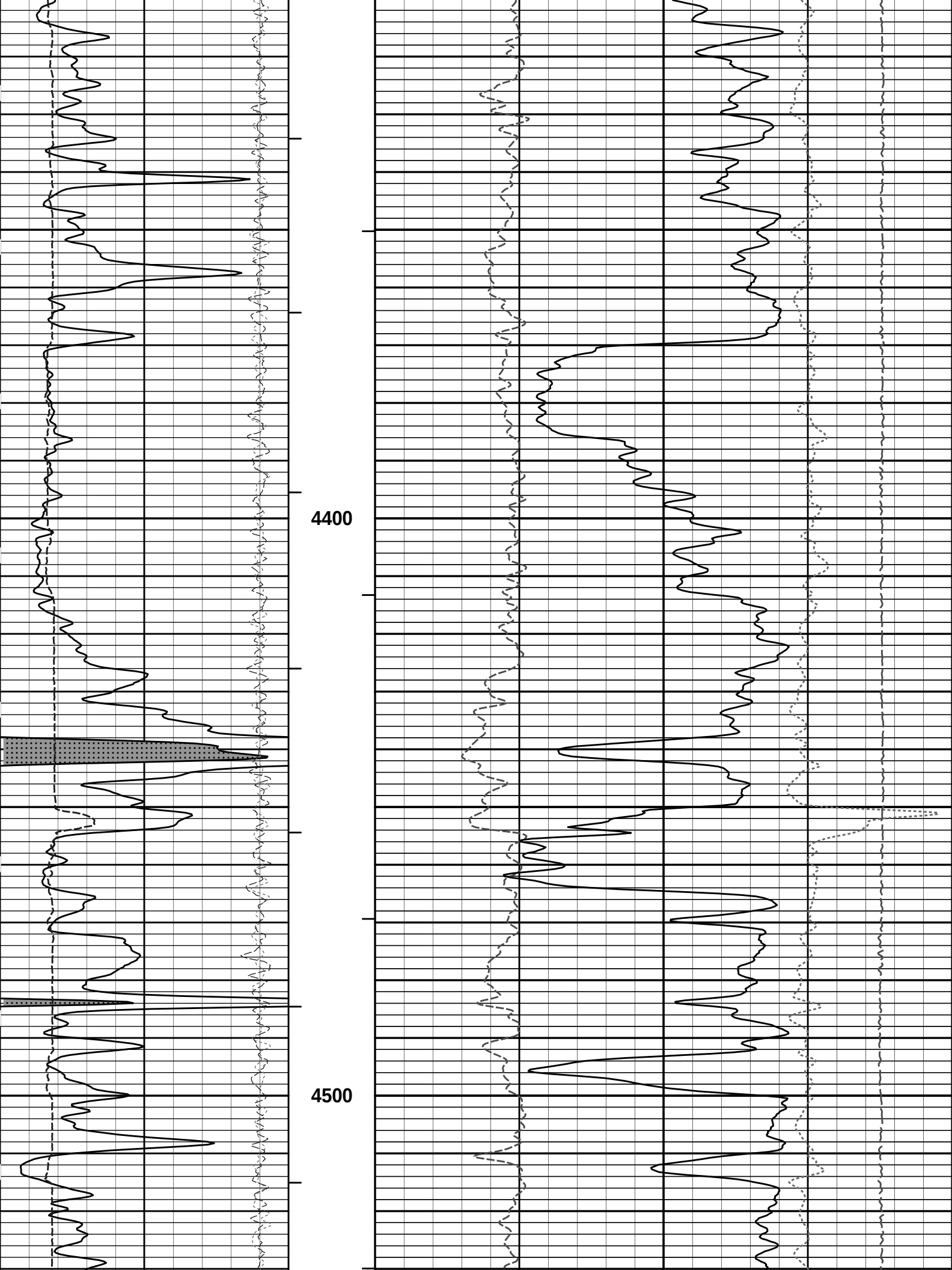
4300

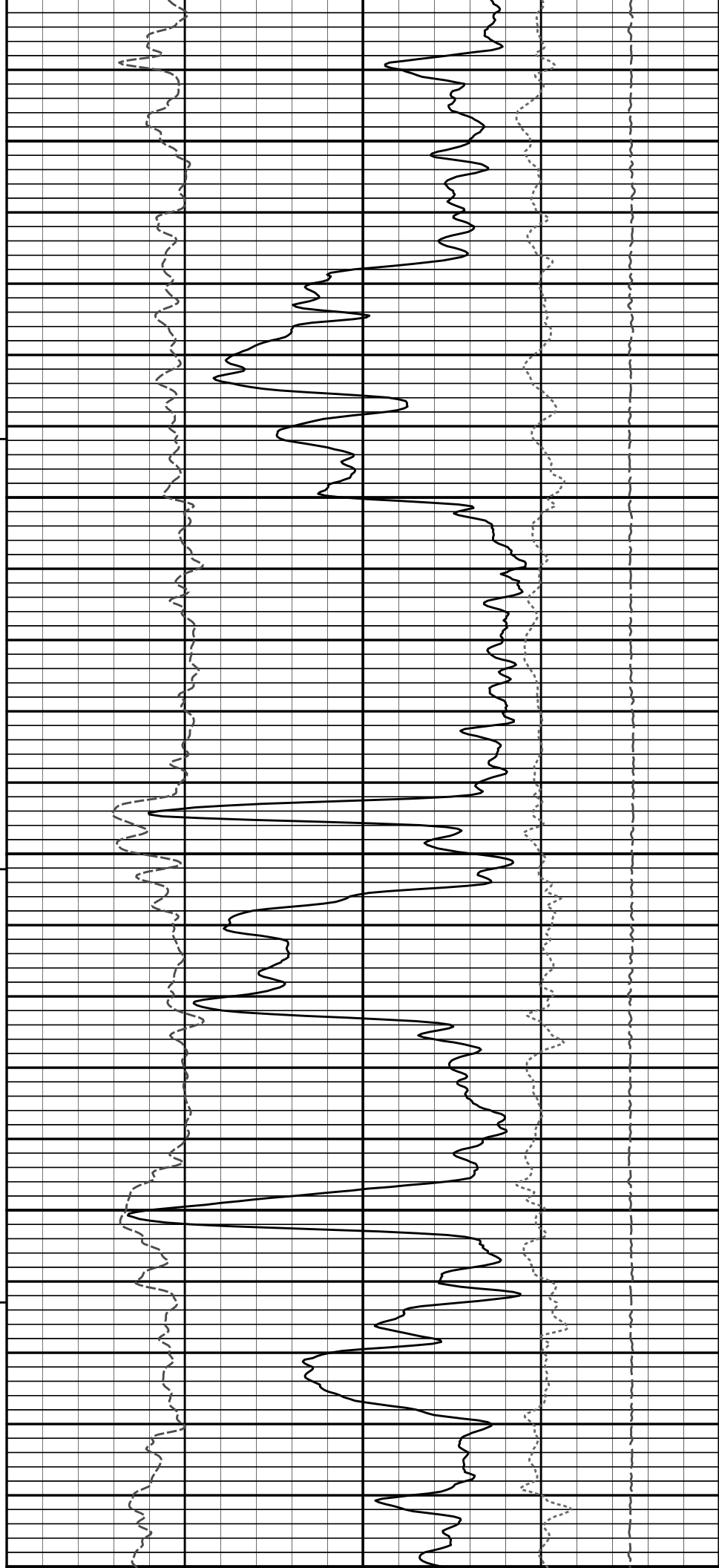
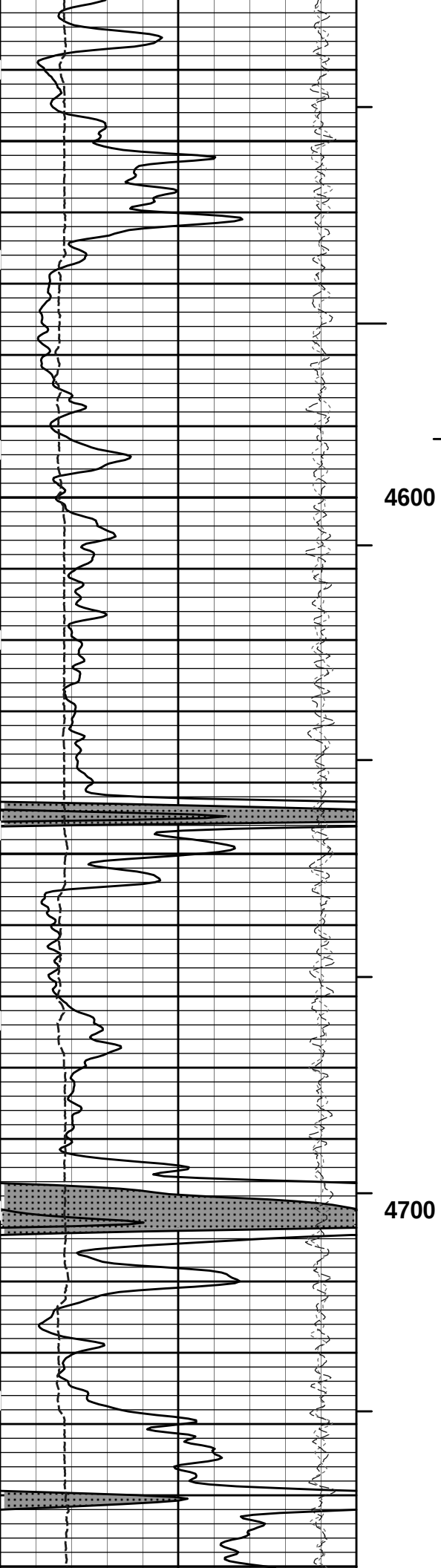


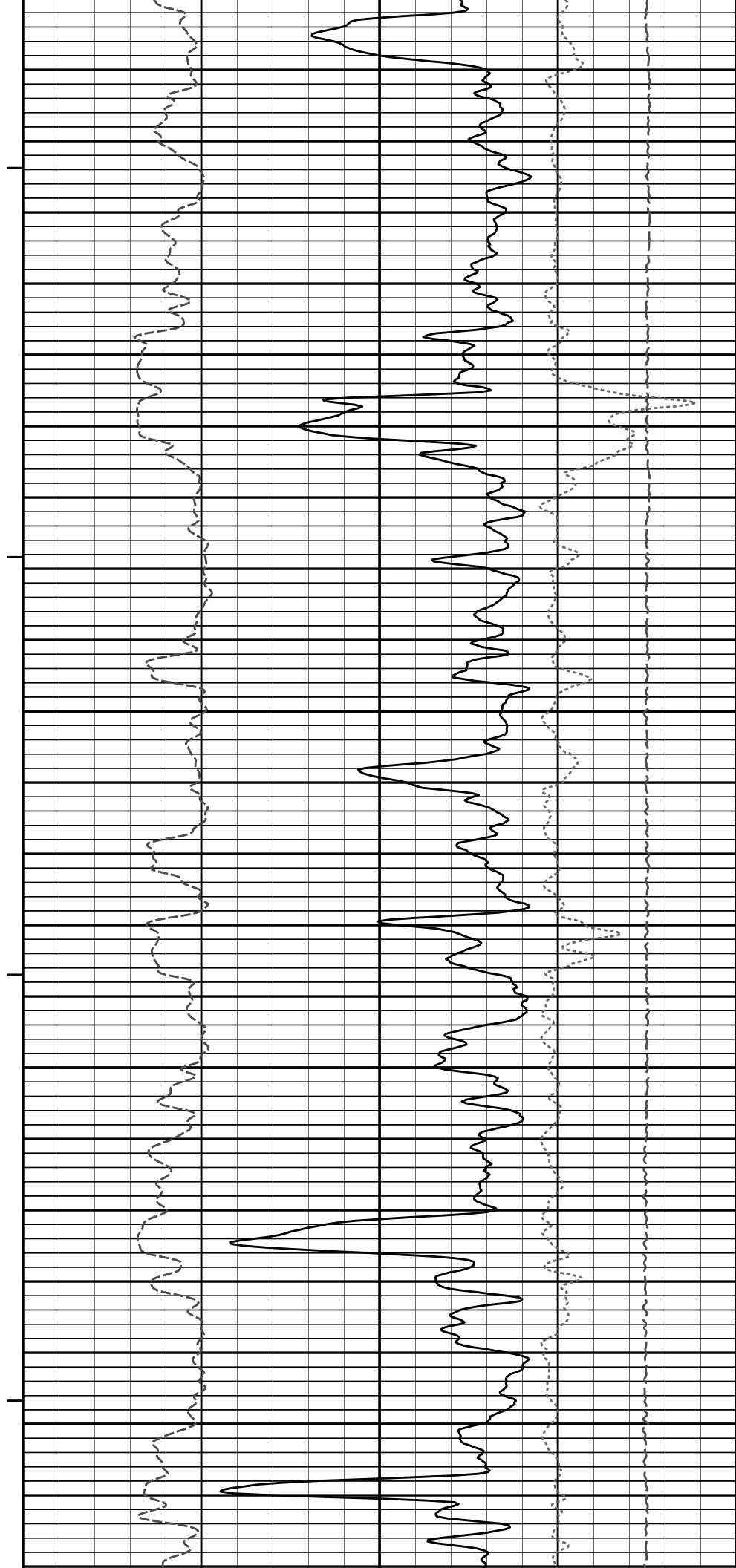
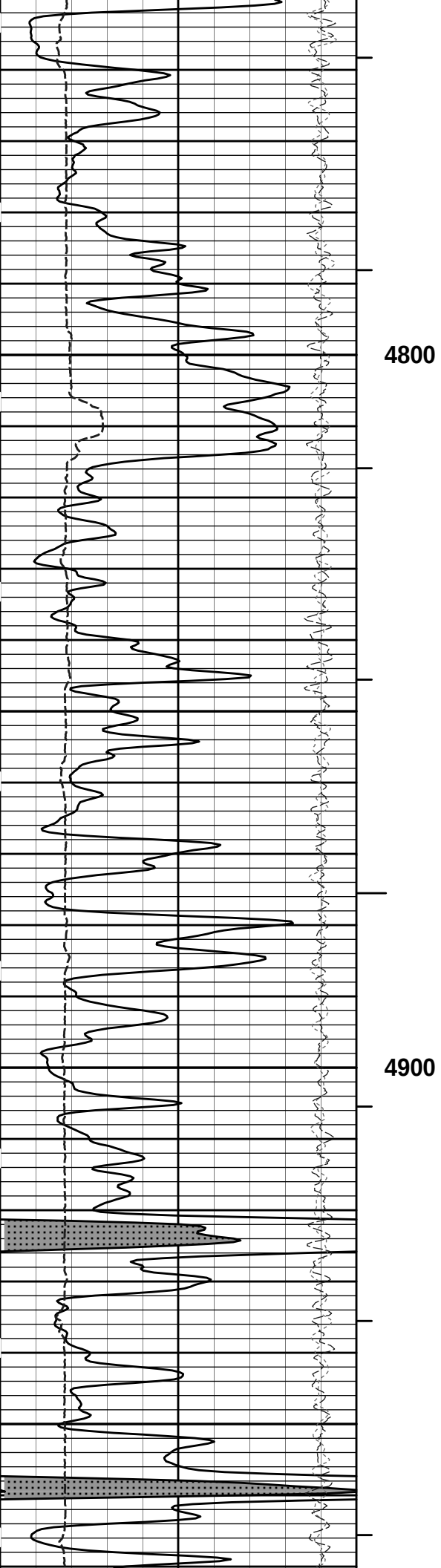
Fe

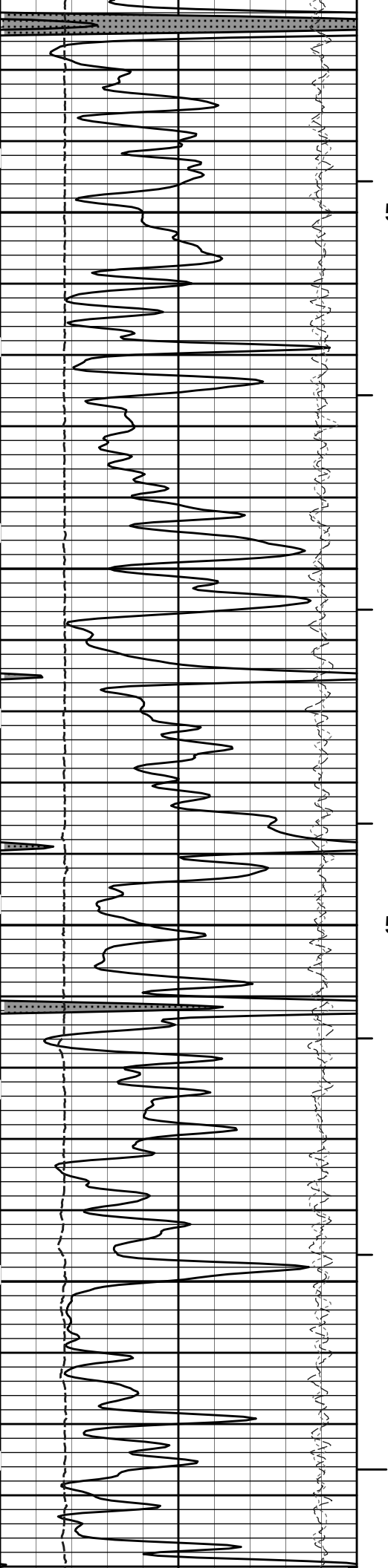
Density Porosity





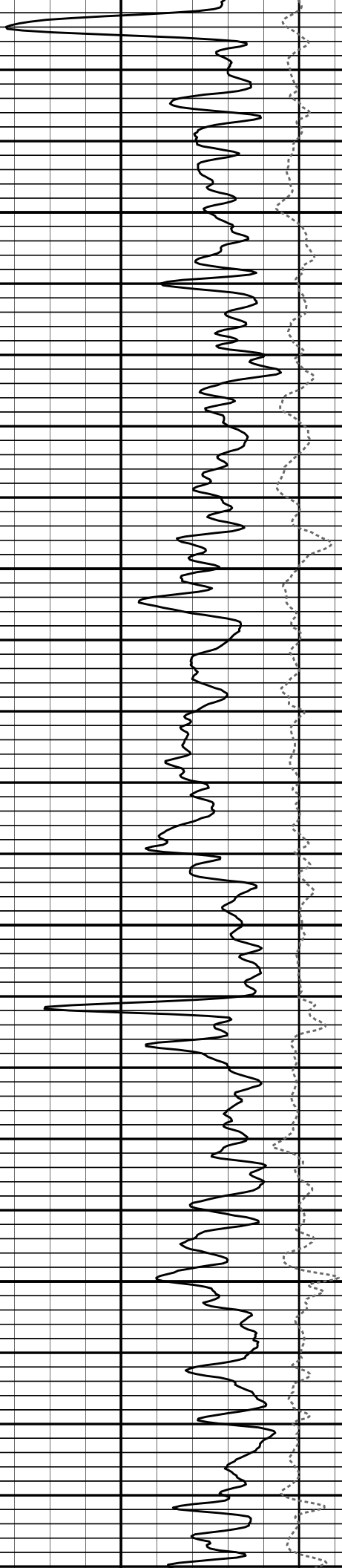
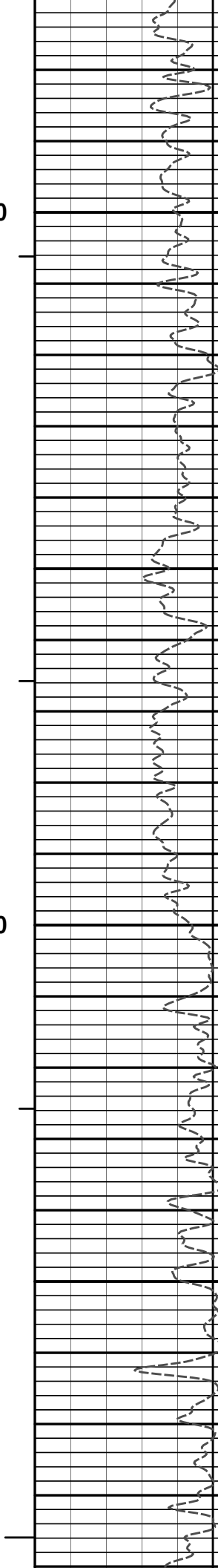


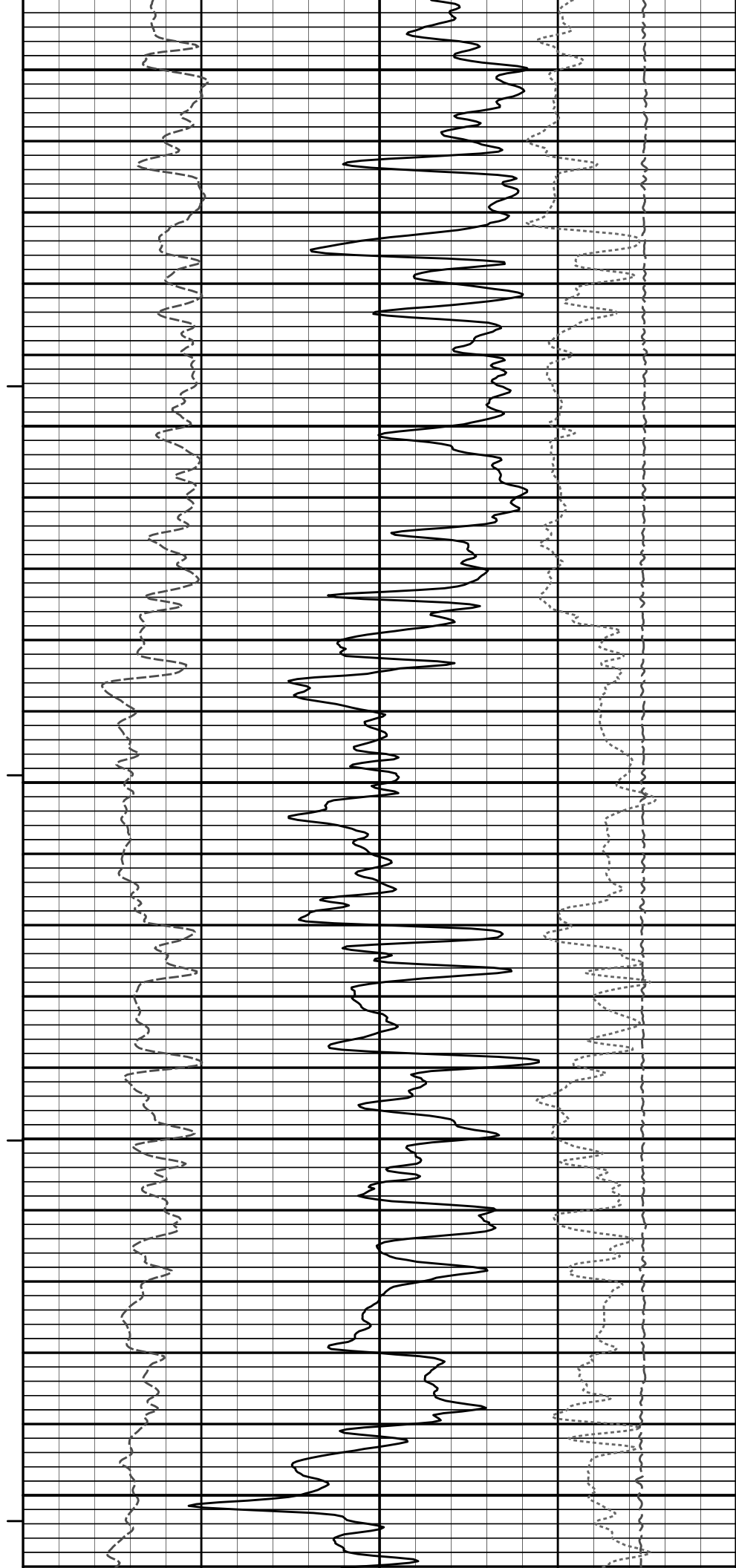
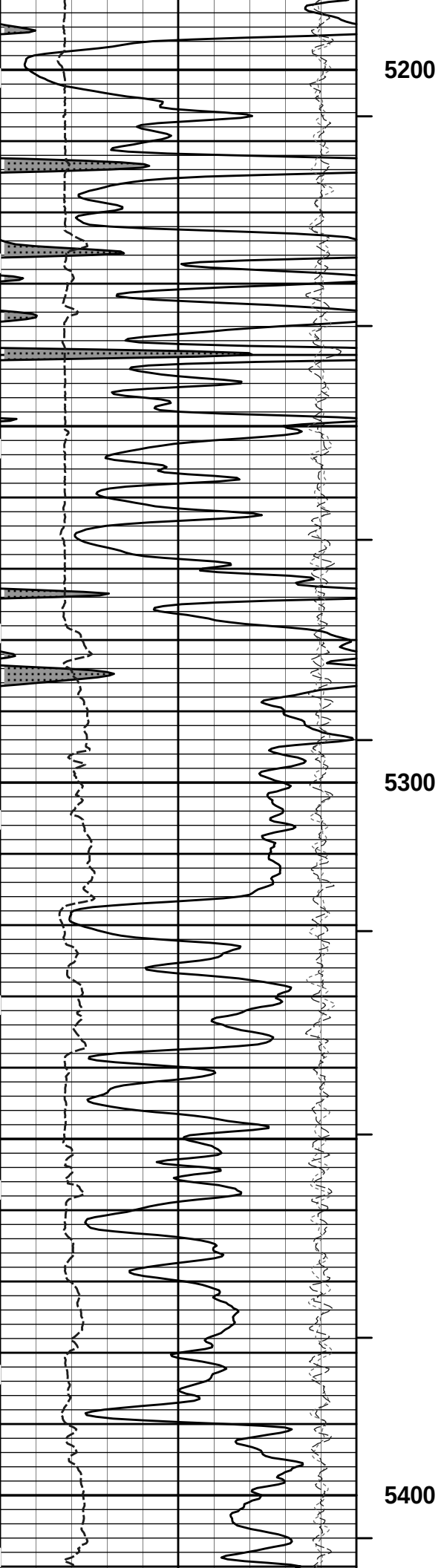


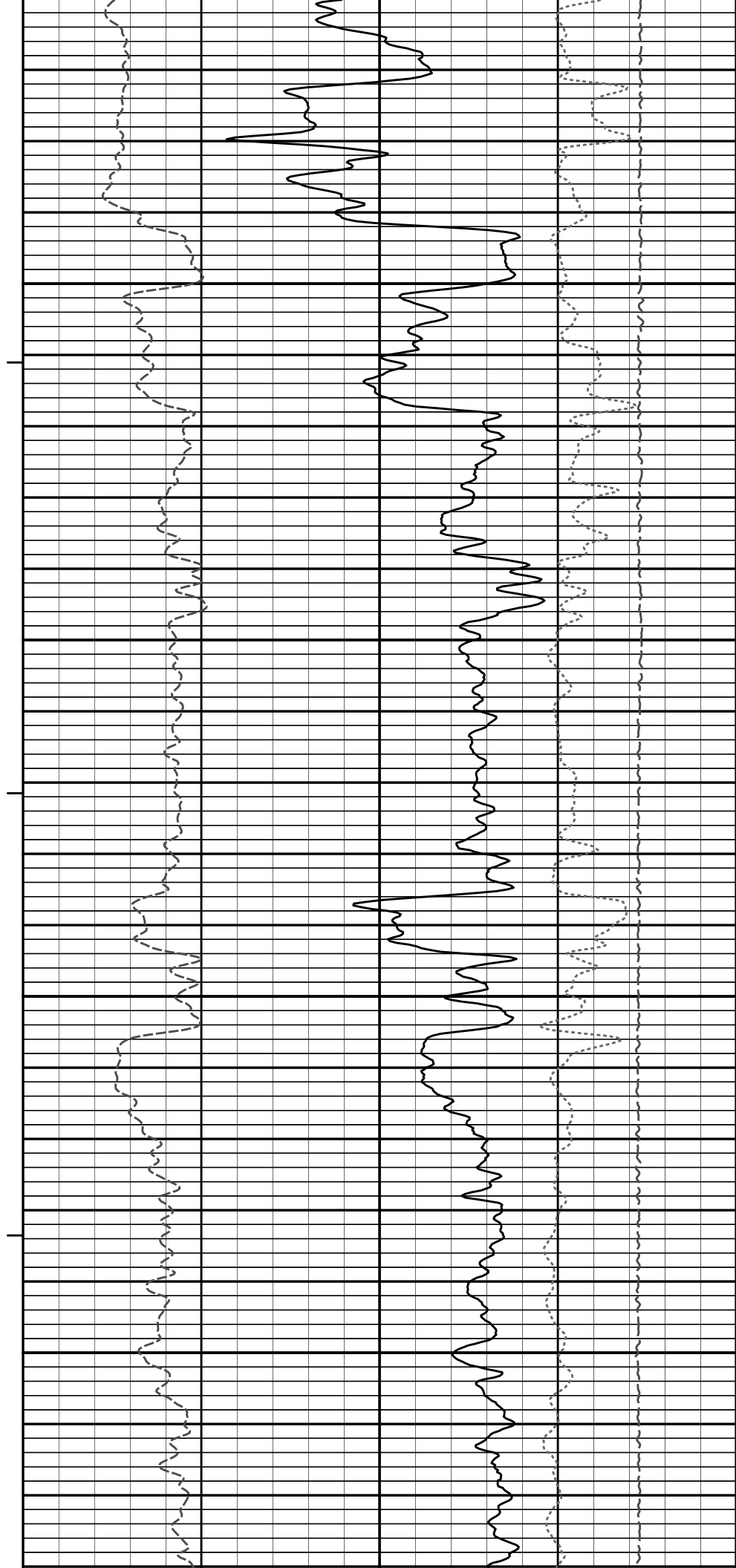
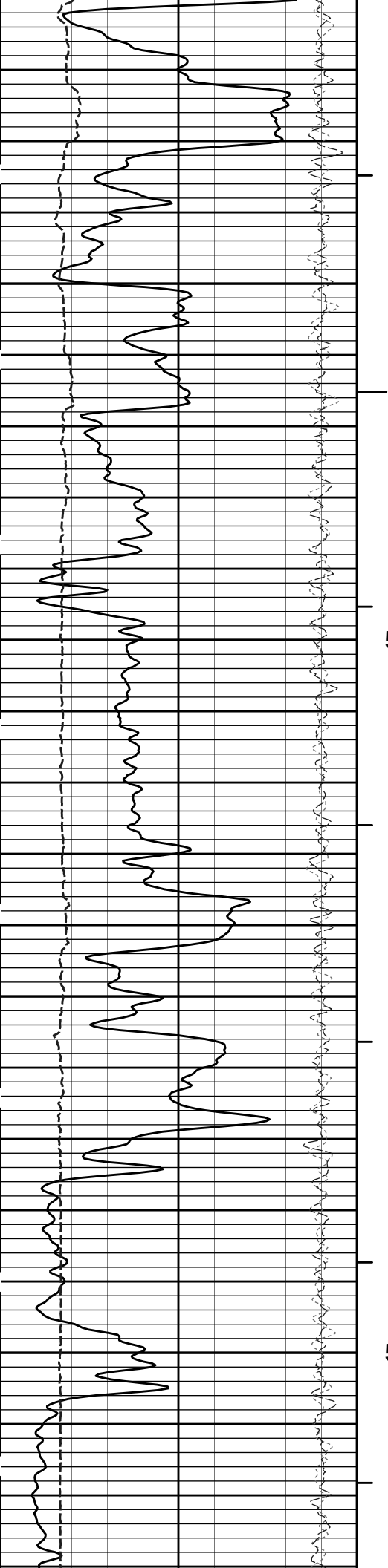


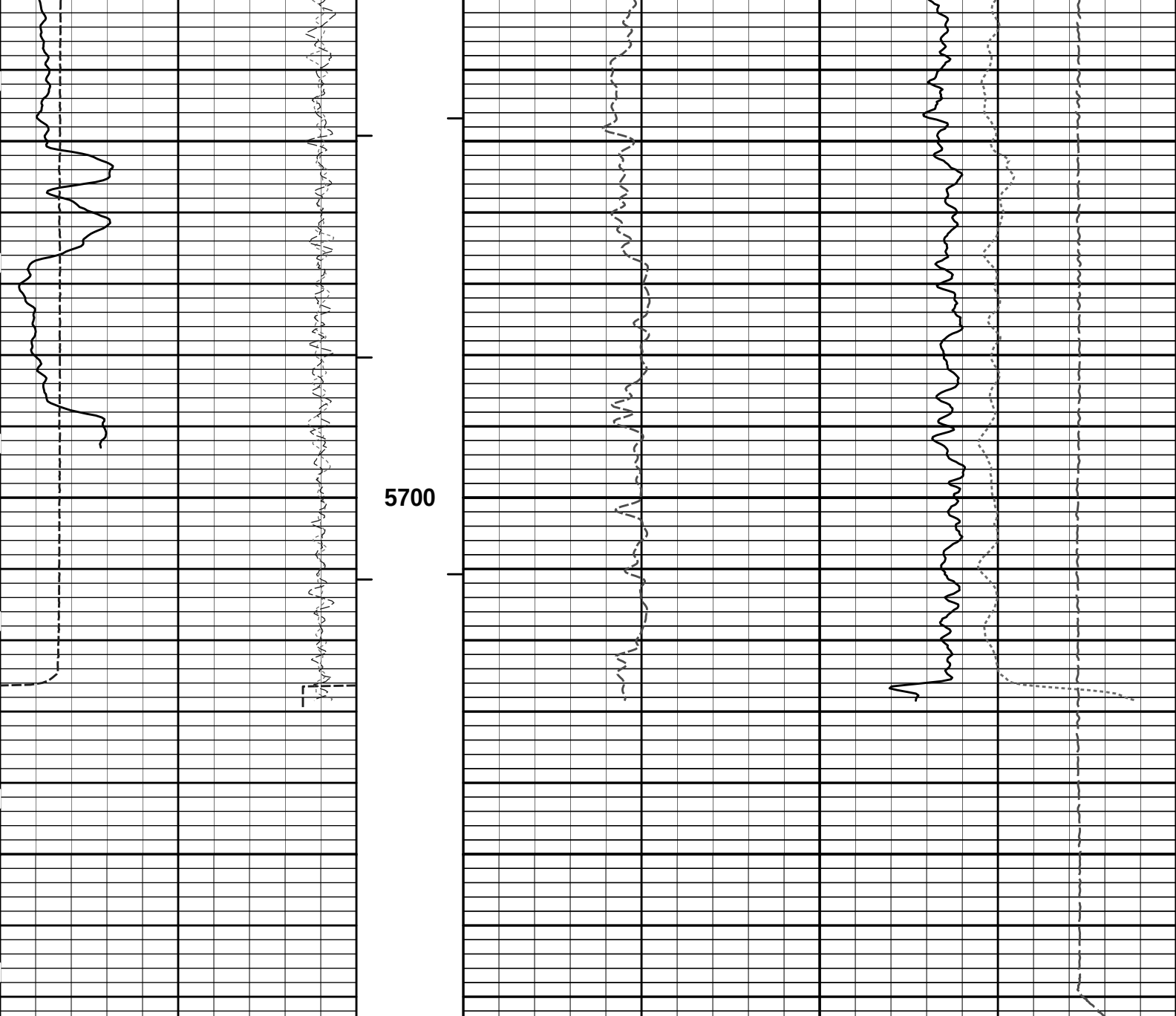
5000

5100









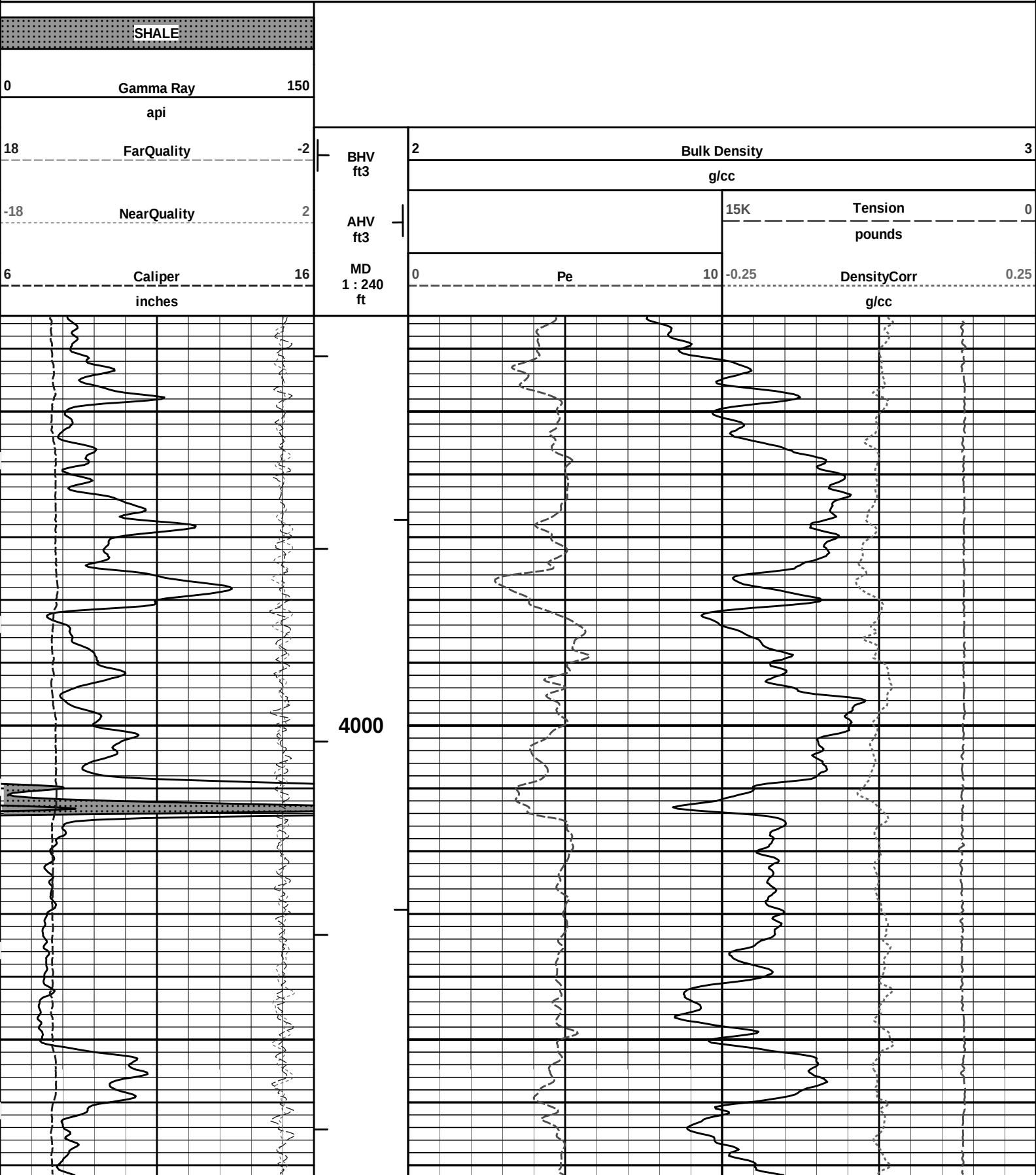
6	Caliper	16	MD	0	Pe	10	-0.25	DensityCorr	0.25
	inches		1 : 240					g/cc	
-18	NearQuality	2	AHV				15K	Tension	0
			ft3					pounds	
18	FarQuality	-2	BHV	2	Bulk Density				
			ft3		g/cc				
0	Gamma Ray	150	Tension Pull	3					
	api		10						
	SHALE		Tension Pull						

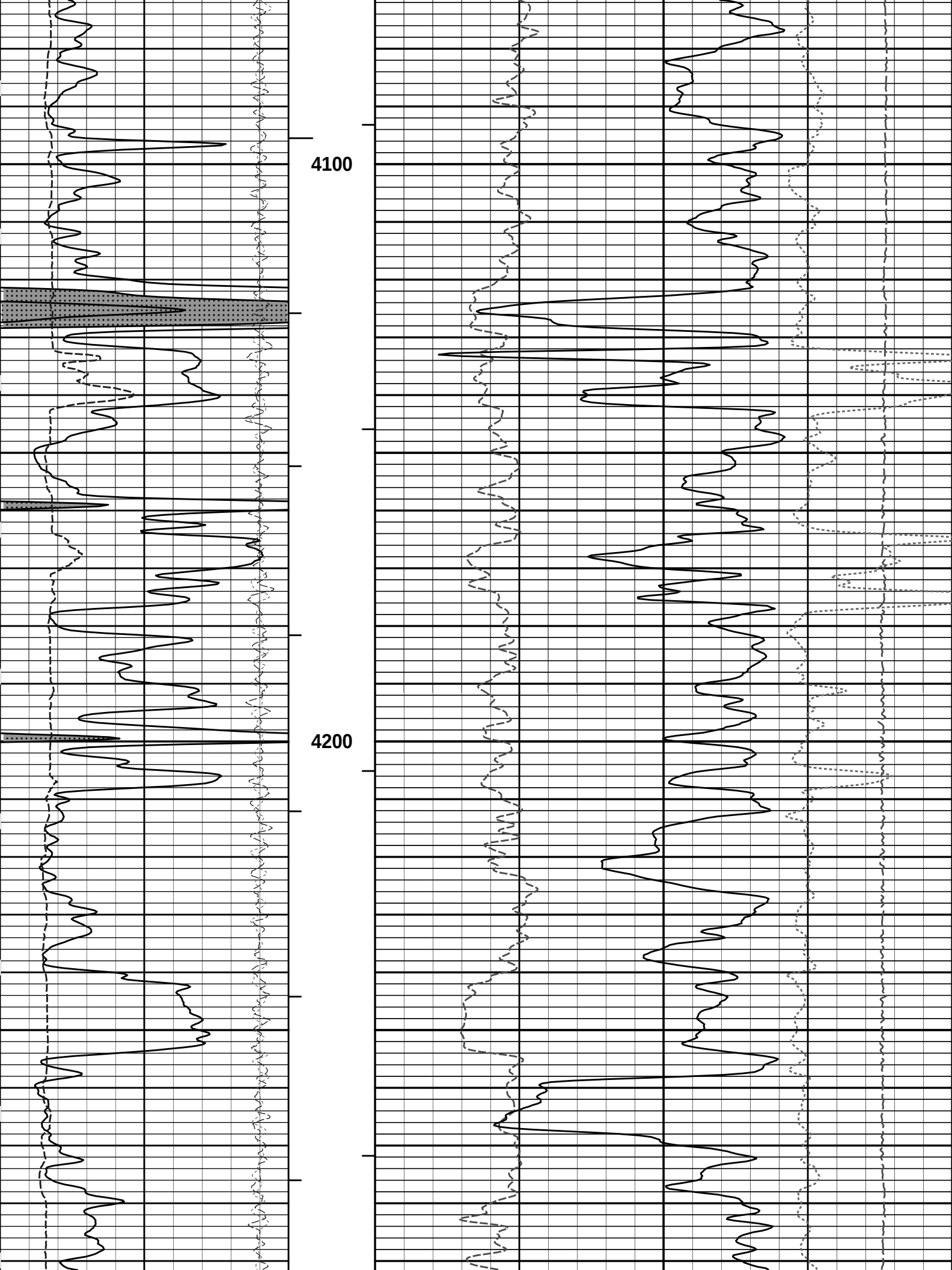
HALLIBURTON

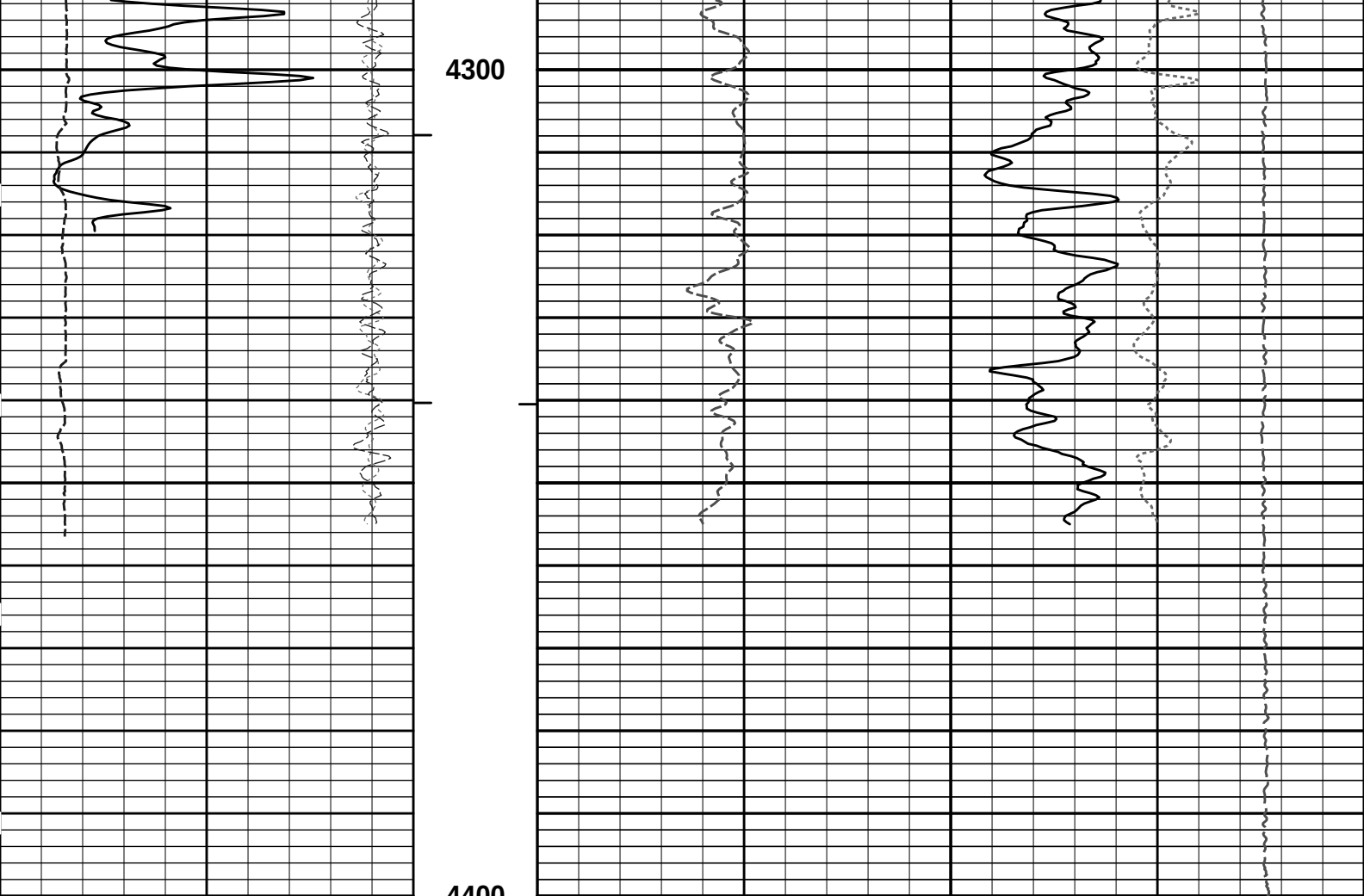
Plot Time: 02-Sep-13 06:52:50
Plot Range: 4095 ft to 5773.08 ft
Data: DEWELL B-1\Well Based\IR1 DETAIL\
Plot File: \\-LOCAL-\\DEWELL B-1\Well Based\POROSITY\BULKD_5_MAIN_LIB

5 INCH MAIN LOG

REPEAT SECTION







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

RWCH-12156658
135.00 lbs

Ø 3.625 in →

← Load Cell @ 92.49 ft
← BH Temperature @ 91.92 ft

6.25 ft

89.92 ft

SP Sub-11441455
60.00 lbs

Ø 3.625 in →

← SP @ 88.14 ft

3.74 ft

86.18 ft

GTET-11048627
165.00 lbs

Ø 3.625 in →

← GammaRay @ 80.12 ft

8.52 ft

77.66 ft

HFDT-I-11997111
435.00 lbs

Ø 4.500 in →

16.14 ft

61.53 ft

Ø 4.750 in →

Receiver Upper @ 64.69 ft
HFDT-I Receiver @ 64.59 ft
Receiver Middle @ 64.59 ft
HFDT Microlog @ 64.53 ft
Receiver Lower @ 64.49 ft
HFDT-I Caliper @ 64.34 ft
HFDT-I Pad @ 63.81 ft

DSNT-11019643
174.00 lbs

DSN Decentralizer-
10755066
6.60 lbs

Ø 5.000 in* →

Ø 3.625 in →

9.69 ft

51.84 ft

← DSN Far @ 54.59 ft
← DSN Near @ 53.84 ft

SDLT-10950489
360.00 lbs

SDLT Pad-10844781
65.00 lbs
Microlog Pad-10950489
8.00 lbs

Ø 4.500 in →

Ø 4.750 in* →

Ø 4.750 in* →

10.81 ft

Microlog @ 44.03 ft
SDL Caliper @ 43.84 ft
SDL @ 43.83 ft

41.03 ft

IQ Flex-00000696
140.00 lbs

Ø 3.625 in →

5.67 ft

Centralizer 25-00000027
8.00 lbs

Ø 4.000 in* →

35.36 ft

BSAT-10747683
300.00 lbs

Ø 3.625 in →

← Sonic Receivers @ 26.84 ft

15.77 ft

ACRt Instrument-11055059
50.00 lbs

Centralizer 25-00000029
8.00 lbs

Ø 4.000 in* →
Ø 3.625 in →

19.58 ft

5.03 ft

ACRt Sonde-11038385
200.00 lbs

Ø 3.625 in →

← Mud Resistivity @ 13.19 ft

14.55 ft

← ACRt @ 9.21 ft

14.22 ft

Bull Nose-000000029
5.00 lbs

Ø 2.750 in →

0.33 ft

0.33 ft

0.00 ft

Mnemonic		Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
RWCH	Releasable Wireline Cable Head		12156658	135.00	6.25	89.92	300.00
SP	SP Sub		11441455	60.00	3.74	86.18	300.00
GTET	Gamma Telemetry Tool		11048627	165.00	8.52	77.66	60.00
HFDT	High Frequency Dielectric Tool		11997111	435.00	16.14	61.53	30.00
DSNT	Dual Spaced Neutron		11019643	174.00	9.69	51.84	60.00
DCNT	DSN Decentralizer		10755066	6.60	5.13	* 55.17	300.00
SDLT	Spectral Density Tool		10950489	360.00	10.81	41.03	60.00
MICP	Microlog Pad		10950489	8.00	1.00	* 43.53	60.00
SDLP	Density Insite Pad		10844781	65.00	2.55	* 43.24	60.00
IQF	IQ Flex tool		00000696	140.00	5.67	35.36	300.00
BSAT	Borehole Sonic Array Tool		10747683	300.00	15.77	19.58	60.00
OBCEN	Centralizer - 25 in. Overbody		00000027	8.00	2.08	* 32.52	300.00
ACRt	Array Compensated True Resistivity Instrument Section		11055059	50.00	5.03	14.55	300.00

ACRT	Array Compensated True Resistivity Instrument Section	11038385	200.00	14.22	0.33	300.00
OBCEN	Centralizer - 25 in. Overbody	00000029	8.00	2.08	*	300.00
ACRT	Array Compensated True Resistivity Sonde Section	11038385	200.00	14.22	0.33	300.00
BLNS	Bull Nose	00000029	5.00	0.33	0.00	300.00
Total			2,119.60	96.17		
* Not included in Total Length and Length Accumulation.						
Data: DEWELL B-1\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BN\IDLE						Date: 02-Sep-13 00:20:36

HALLIBURTON					
INPUTS, DELAYS AND FILTERS TABLE					
Mnemonic		Input Description	Delay (ft)	Filter Type	Filter Length (ft)
Depth Panel					
TENS	Tension		0.00	NO	
RWCH					
DHTN	DownholeTension		0.00	BLK	0.000
SP Sub					
PLTC	Plot Control Mask		88.14	NO	
SP	Spontaneous Potential		88.14	BLK	1.250
SPR	Raw Spontaneous Potential		88.14	NO	
SPO	Spontaneous Potential Offset		88.14	NO	
GTET					
TPUL	Tension Pull		80.12	NO	
GR	Natural Gamma Ray API		80.12	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API		80.12	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution		80.12	W	1.416 , 0.750
ACCZ	Accelerometer Z		0.00	BLK	0.083
DEVI	Inclination		0.00	NO	
HFDT-I					
TPUL	Tension Pull		64.59	NO	
IUXU	HFDT Insite In-phase Component of Upper Receiver - TXUon TXLoff		64.59	NO	
QUXU	HFDT Insite Quadrture Component of Upper Receiver - TXUon TXLof		64.59	NO	
IMXU	HFDT Insite In-phase Component of Middle Receiver TXUon TXLoff		64.59	NO	
QMXU	HFDT Insite Quadrture Component of Middle Receiver TXUon TXLof		64.59	NO	
ILXU	HFDT Insite In-phase Component of Lower Receiver TXUon TXLoff		64.59	NO	
QLXU	HFDT Insite Quadrture Component of Lower Receiver TXUon TXLoff		64.59	NO	
IUXL	HFDT Insite In-phase Component of Upper Receiver TXUoff TXLon		64.59	NO	
QUXL	HFDT Insite Quadrture Component of Upper Receiver TXUoff TXLon		64.59	NO	
IMXL	HFDT Insite In-phase Component of Middle Receiver TXUoff TXLon		64.59	NO	
QMXL	HFDT Insite Quadrture Component of Middle Receiver TXUoff TXLo		64.59	NO	
ILXL	HFDT Insite In-phase Component of Lower Receiver TXUoff TXLon		64.59	NO	
QLXL	HFDT Insite Quadrture Component of Lower Receiver TXUoff TXLon		64.59	NO	
TEX1	HFDTInsite External Pad Temperature Measurement 1		63.81	NO	

TEX2	HFDTInsite External Pad Temperature Measurement 2	63.81	NO	
STAT	HFDT Insite Pad Status Word	64.59	NO	
TPUL	Tension Pull	64.34	NO	
PCAL	Pad Caliper	64.34	TRI	0.250
ACAL	Arm Caliper	64.34	TRI	0.250
TPUL	Tension Pull	64.53	NO	
MINV	Microlog Lateral	64.53	BLK	0.750
MNOR	Microlog Normal	64.53	BLK	0.750
DSNT				
TPUL	Tension Pull	53.74	NO	
RNDS	Near Detector Telemetry Counts	53.84	BLK	1.417
RFDS	Far Detector Telemetry Counts	54.59	TRI	0.583
DNTT	DSN Tool Temperature	53.84	NO	
DSNS	DSN Tool Status	53.74	NO	
ERND	Near Detector Telemetry Counts EVR	53.84	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	54.59	BLK	0.000
ENTM	DSN Tool Temperature EVR	53.84	NO	
SDLT				
TPUL	Tension Pull	43.84	NO	
PCAL	Pad Caliper	43.84	TRI	0.250
ACAL	Arm Caliper	43.84	TRI	0.250
BSAT				
TPUL	Tension Pull	26.84	NO	
STAT	Status	26.84	NO	
DLYT	Delay Time	26.84	NO	
SI	Sample Interval	26.84	NO	
TXRX	Raw Telemetry 10 Receivers	26.84	NO	
FRMC	Tool Frame Count	26.84	NO	
GMOD	Gain processing mode	19.58	NO	
ACRt Sonde				
TPUL	Tension Pull	2.73	NO	
F1R1	ACRT 12KHz - 80in R value	8.98	BLK	0.000
F1X1	ACRT 12KHz - 80in X value	8.98	BLK	0.000
F1R2	ACRT 12KHz - 50in R value	6.48	BLK	0.000
F1X2	ACRT 12KHz - 50in X value	6.48	BLK	0.000
F1R3	ACRT 12KHz - 29in R value	4.98	BLK	0.000
F1X3	ACRT 12KHz - 29in X value	4.98	BLK	0.000
F1R4	ACRT 12KHz - 17in R value	3.98	BLK	0.000
F1X4	ACRT 12KHz - 17in X value	3.98	BLK	0.000
F1R5	ACRT 12KHz - 10in R value	3.48	BLK	0.000
F1X5	ACRT 12KHz - 10in X value	3.48	BLK	0.000
F1R6	ACRT 12KHz - 6in R value	3.23	BLK	0.000
F1X6	ACRT 12KHz - 6in X value	3.23	BLK	0.000
F2R1	ACRT 36KHz - 80in R value	8.98	BLK	0.000
F2X1	ACRT 36KHz - 80in X value	8.98	BLK	0.000
F2R2	ACRT 36KHz - 50in R value	6.48	BLK	0.000
F2X2	ACRT 36KHz - 50in X value	6.48	BLK	0.000
F2R3	ACRT 36KHz - 29in R value	4.98	BLK	0.000
F2X3	ACRT 36KHz - 29in X value	4.98	BLK	0.000
F2R4	ACRT 36KHz - 17in R value	3.98	BLK	0.000
F2X4	ACRT 36KHz - 17in X value	3.98	BLK	0.000
F2R5	ACRT 36KHz - 10in R value	3.48	BLK	0.000

F2X5	ACRT 36KHz - 10in X value	3.48	BLK	0.000
F2R6	ACRT 36KHz - 6in R value	3.23	BLK	0.000
F2X6	ACRT 36KHz - 6in X value	3.23	BLK	0.000
F3R1	ACRT 72KHz - 80in R value	8.98	BLK	0.000
F3X1	ACRT 72KHz - 80in X value	8.98	BLK	0.000
F3R2	ACRT 72KHz - 50in R value	6.48	BLK	0.000
F3X2	ACRT 72KHz - 50in X value	6.48	BLK	0.000
F3R3	ACRT 72KHz - 29in R value	4.98	BLK	0.000
F3X3	ACRT 72KHz - 29in X value	4.98	BLK	0.000
F3R4	ACRT 72KHz - 17in R value	3.98	BLK	0.000
F3X4	ACRT 72KHz - 17in X value	3.98	BLK	0.000
F3R5	ACRT 72KHz - 10in R value	3.48	BLK	0.000
F3X5	ACRT 72KHz - 10in X value	3.48	BLK	0.000
F3R6	ACRT 72KHz - 6in R value	3.23	BLK	0.000
F3X6	ACRT 72KHz - 6in X value	3.23	BLK	0.000
RMUD	Mud Resistivity	12.52	BLK	0.000
F1RT	Transmitter Current Raw 12K X Receiver	2.73	BLK	0.000
F1XT	Transmitter Reference 12 KHz Imaginary Signal	2.73	BLK	0.000
F2RT	Transmitter Reference 36 KHz Real Signal	2.73	BLK	0.000
F2XT	Transmitter Reference 36 KHz Imaginary Signal	2.73	BLK	0.000
F3RT	Transmitter Reference 72 KHz Real Signal	2.73	BLK	0.000
F3XT	Transmitter Reference 72 KHz Imaginary Signal	2.73	BLK	0.000
TFPU	Upper Feedpipe Temperature Calculated	2.73	BLK	0.000
TFPL	Lower Feedpipe Temperature Calculated	2.73	BLK	0.000
ITMP	Instrument Temperature	2.73	BLK	0.000
TCVA	Temperature Correction Values Loop Off	2.73	NO	
TIDV	Instrument Temperature Derivative	2.73	NO	
TUDV	Upper Temperature Derivative	2.73	NO	
TLDV	Lower Temperature Derivative	2.73	NO	
TRBD	Receiver Board Temperature	2.73	NO	
SDLT Pad				
TPUL	Tension Pull	43.83	NO	
NAB	Near Above	43.66	BLK	0.920
NHI	Near Cesium High	43.66	BLK	0.920
NLO	Near Cesium Low	43.66	BLK	0.920
NVA	Near Valley	43.66	BLK	0.920
NBA	Near Barite	43.66	BLK	0.920
NDE	Near Density	43.66	BLK	0.920
NPK	Near Peak	43.66	BLK	0.920
NLI	Near Lithology	43.66	BLK	0.920
NBAU	Near Barite Unfiltered	43.66	BLK	0.250
NLIU	Near Lithology Unfiltered	43.66	BLK	0.250
FAB	Far Above	44.01	BLK	0.250
FHI	Far Cesium High	44.01	BLK	0.250
FLO	Far Cesium Low	44.01	BLK	0.250
FVA	Far Valley	44.01	BLK	0.250
FBA	Far Barite	44.01	BLK	0.250
FDE	Far Density	44.01	BLK	0.250
FPK	Far Peak	44.01	BLK	0.250
FLI	Far Lithology	44.01	BLK	0.250
PTMP	Pad Temperature	43.84	BLK	0.920
NHV	Near Detector High Voltage	43.24	NO	
FHV	Far Detector High Voltage	43.24	NO	
ITMP	Instrument Temperature	43.24	NO	

DDHV	Detector High Voltage	43.24	NO	
Microlog Pad				
TPUL	Tension Pull	44.03	NO	
MINV	Microlog Lateral	44.03	BLK	0.750
MNOR	Microlog Normal	44.03	BLK	0.750
Data: DEWELL B-1\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BN\005 02-Sep-13 02:08 Up @5774.5f			Date: 02-Sep-13 03:16:59	

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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	MDBS	Mud Base	Water	
	SHARED	MDWT	Borehole Fluid Weight	9.200	ppg
	SHARED	WAGT	Weighting Agent	Natural	
	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	1.090	ohmm
	SHARED	TRM	Temperature of Mud	85.0	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	5784.00	ft
	SHARED	BHT	Bottom Hole Temperature	135.0	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	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
	Rwa / CrossPlot	ADP	Use Air Porosity to calculate CrossplotPhi	No	
	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 for Gamma Ray Tools.	Eccentered	
	HFDT-I	HFOK	Do HFDT Calculations?	Yes	
	HFDT-I	RMF	Mud Filtrate Resistivity	0.93	ohmm
	HFDT-I	RMFT	Temperature of Mud Filtrate	85.00	degF
	HFDT-I	MDU	Matrix Dielectric Constant	7.700	

HFDT-I	MDIE	Matrix Dielectric Constant	7.700	
HFDT-I	HRTC	HFDT Insite Temperature Correction Source	PADTEMP1	
HFDT-I	CLOK	Process Caliper Outputs?	Yes	
HFDT-I	SAO	SDL Backup Arm Offset	-0.20	in
HFDT-I	PAO	Pad Arm Offset	0.00	in
HFDT-I	MLOK	Process MicroLog Outputs?	No	
HFDT-I	MINO	Microlog Lateral Offset	0.00	ohmm
HFDT-I	MNOO	Microlog Normal Offset	0.00	ohmm
DSNT	DNOK	Process DSN?	Yes	
DSNT	DEOK	Process DSN EVR?	No	
DSNT	NLIT	Neutron Lithology	Limestone	
DSNT	DSNO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.250	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	CLOK	Process Caliper Outputs?	Yes	
SDLT Pad	DNOK	Process Density?	Yes	
SDLT Pad	DNOK	Process Density EVR?	No	
SDLT Pad	CB	Logging Calibration Blocks?	No	
SDLT Pad	SPVT	SDLT Pad Temperature Valid?	Yes	
SDLT Pad	DTWN	Disable temperature warning	No	
SDLT Pad	DMA	Formation Density Matrix	2.710	g/cc
SDLT Pad	DFL	Formation Density Fluid	1.000	g/cc
Microlog Pad	MLOK	Process MicroLog Outputs?	Yes	
BSAT	MBOK	Compute BCAS Results?	Yes	
BSAT	FLLO	Frequency Filter Low Pass Value?	5000	Hz
BSAT	FLHI	Frequency Filter High Pass Value?	27000	Hz
BSAT	DTFL	Delta -T Fluid	189.00	uspf
BSAT	DTMT	Delta -T Matrix Type	User define	
BSAT	DTMA	Delta -T Matrix	47.60	uspf
BSAT	DTSH	Delta -T Shale	100.00	uspf
BSAT	SPEQ	Acoustic Porosity Equation	Wylie	
ACRt Sonde	RTOK	Process ACRt?	Yes	
ACRt Sonde	MNSO	Minimum Tool Standoff	1.50	in
ACRt Sonde	TCS1	Temperature Correction Source	FP Lwr & FP Up	
ACRt Sonde	TPOS	Tool Position	Free Hanging	
ACRt Sonde	RMOP	Rmud Source	Mud Cell	
ACRt Sonde	RMIN	Minimum Resistivity for MAP	0.20	ohmm
ACRt Sonde	RMIN	Maximum Resistivity for MAP	200.00	ohmm
ACRt Sonde	THQY	Threshold Quality	0.50	
ACRt Sonde	MRFX	Fixed mud resistivity	2000	ohmm

BOTTOM

Data: DEWELL B-1\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BN\005 02-Sep-13 02:08 Up @5774.5f

Date: 02-Sep-13 03:17:37

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CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:	GTET - 11048627	Reference Calibration Date:	02-Jul-13 07:19:00
Engineer:	THOMAS HYDE	Calibration Date:	14-Aug-13 07:16:10
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1

Software Version: WL INSITE R3.8.4 (Build 5)

Calibration Version: 1

Calibrator Source S/N: TB146

Calibrator API Reference:265.00 api

Equivalent Calibrator API Reference:269.6 api

Measurement	Measured	Calibrated	Units
Background	51.1	50.6	api
Background + Calibrator	323.4	320.2	api
Calibrator	272.3	269.6	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION			
Tool Name:	GTET - 11048627	Reference Calibration Date:	14-Aug-13 07:16:10
Engineer:	SHELDON INGERSOLL	Calibration Date:	01-Sep-13 06:33:52
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1

Calibrator Source S/N: TB146			
Calibrator API Reference:265.00 api			
Equivalent Calibrator API Reference:269.6 api			
Field Verification	Shop	Field	Units
Background	50.6	32.9	api
Background + Calibrator	320.2	303.5	api
Calibrator	269.6	270.6	api
Shop	Field	Difference	Tolerance
269.6	270.6	-1.0	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION			
Tool Name:	DSNT - 11019643	Reference Calibration Date:	03-Jul-13 10:31:49
Engineer:	J. BOLLLOM	Calibration Date:	08-Aug-13 10:49:53
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1

Logging Source S/N: 696			
Tank Serial Number: LIBERAL_NEUTRON			
Reference value assigned to Tank: 51.680			
Snow Block S/N: 696			
Calibration Tank Water Temperature: 72 degF			
Min. Tool Housing Outside Diameter: 3.620 in			

CALIBRATION CONSTANTS			
Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.952	0.951	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):	0.2108	0.2107	0.0002	+/- 0.0020
Calibrated Ratio:	9.72	9.72	0.006	+/- 0.050

VERIFIER		
Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0610	0.02000 - 0.09000

PASS/FAIL SUMMARY	
Background Check:	Passed
Gain Range Check:	Passed

Gain-Range Check:		Passed	
Snow-Block Check:		Passed	
DUAL SPACED NEUTRON FIELD CALIBRATION			
Tool Name:	DSNT - 11019643	Reference Calibration Date:	08-Aug-13 10:49:53
Engineer:	SHELDON INGERSOLL	Calibration Date:	01-Sep-13 06:36:54
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1
Logging Source S/N: 696			
Snow Block S/N: 696			
NEUTRON FIELD-CHECK SUMMARY			
	Shop	Field	Control Limit On Change
Snow-Block Porosity (decp):	0.0610	0.0503	-0.0107 +/- 0.0150
PASS/FAIL SUMMARY			
Block Change Check:		Passed	
Snow Block Stat Check:		Passed	
Temperature Check:		Passed	
DENSITY CALIPER SHOP CALIBRATION			
Tool Name:	SDLT - 10950489	Reference Calibration Date:	14-Aug-13 08:53:05
Engineer:	THOMAS HYDE	Calibration Date:	14-Aug-13 08:57:28
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1
Host Tool Name:	DSNT - 11019643		
CALIBRATION COEFFICIENTS			
Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-2554.79	-2495.11	-7000.00 - -1000.00
Pad Gain	0.0004067	0.0004034	0.000200 - 0.000600
Arm Offset	-926.62	-1424.54	-5000.00 - 3000.00
Arm Gain	0.0004885	0.0005585	0.000300 - 0.000700
Arm Power	-0.000004102	-0.000008458	-0.000010000 - 0.000010000
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)	1.99	2.00	0.01 +/- 0.20
Medium Ring (in)	3.76	3.75	-0.01 +/- 0.20
RING DIAMETER:			
Small Ring (in)	6.47	6.50	0.03 +/- 0.20
Medium Ring (in)	8.08	8.25	0.17 +/- 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	
SDLT CALIPER FIELD CALIBRATION			
Tool Name:	SDLT - 10950489	Reference Calibration Date:	14-Aug-13 08:57:28

Engineer:	SHELDON INGERSOLL	Calibration Date:	01-Sep-13 06:42:11
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1

MEASURED CALIPER VALUES				
Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.71	-0.04	+/- 0.10
Ring Diameter	8.25	8.15	-0.10	+/- 0.15

PASS/FAIL SUMMARY	
Pad Extension Check:	Passed
Diameter Check:	Passed

SPECTRAL DENSITY SHOP CALIBRATION			
Tool Name:	SDLT Pad - 10844781	Reference Calibration Date:	14-Aug-13 08:04:01
Engineer:	THOMAS HYDE	Calibration Date:	14-Aug-13 08:21:45
Software Version:	WL INSITE R3.8.4 (Build 5)	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: 2.598

DENSITY CALIBRATION SUMMARY			
Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0335	1.0418	0.90 - 1.10
Near Dens Gain	1.0169	1.0162	0.90 - 1.10
Near Peak Gain	0.9990	1.0059	0.90 - 1.10
Near Lith Gain	0.9872	0.9783	0.90 - 1.10
Far Bar Gain	1.0128	1.0130	0.90 - 1.10
Far Dens Gain	1.0009	1.0002	0.90 - 1.10
Far Peak Gain	0.9928	0.9937	0.90 - 1.10
Far Lith Gain	0.9692	0.9663	0.90 - 1.10

Near Bar Offset	-0.1146	-0.1911	NONE
Near Dens Offset	0.0225	0.0299	NONE
Near Peak Offset	0.1675	0.1100	NONE
Near Lith Offset	0.2484	0.3218	NONE
Far Bar Offset	0.0191	0.0166	NONE
Far Dens Offset	0.1093	0.1166	NONE
Far Peak Offset	0.1392	0.1304	NONE
Far Lith Offset	0.2744	0.2996	NONE

Near Bar Background	802.49	796.49	700 - 1450
Near Dens Background	260.59	260.68	230 - 480
Near Peak Background	114.10	113.78	100 - 210
Near Lith Background	141.57	140.91	125 - 260
Far Bar Background	521.79	521.17	450 - 900
Far Dens Background	203.52	206.44	175 - 345
Far Peak Background	81.77	82.11	70 - 140
Far Lith Background	84.28	85.11	75 - 145

CALIBRATION BLOCK SUMMARY				
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				

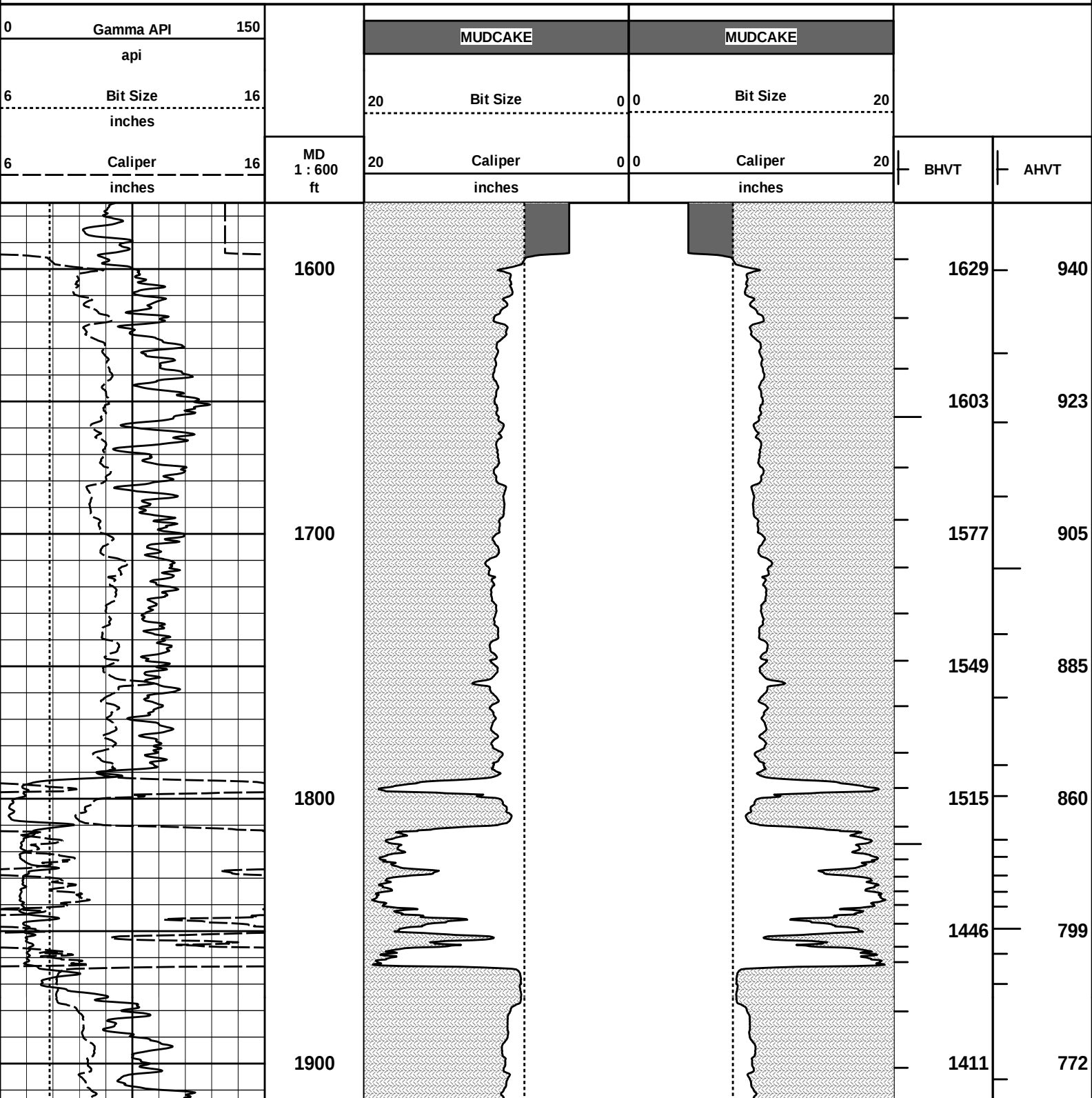
Pad Extension	3.75	3.71	-----	0.04	+/-0.10	in
Ring Diameter	8.25	8.15	-----	0.10	+/-0.15	in
SDLT Pad-10844781						
Near(B+D+P+L)	1311.852	1313.114	-----	-1.262	+/-14.659	cps
Far(B+D+P+L)	894.829	886.810	-----	8.019	+/-16.281	cps

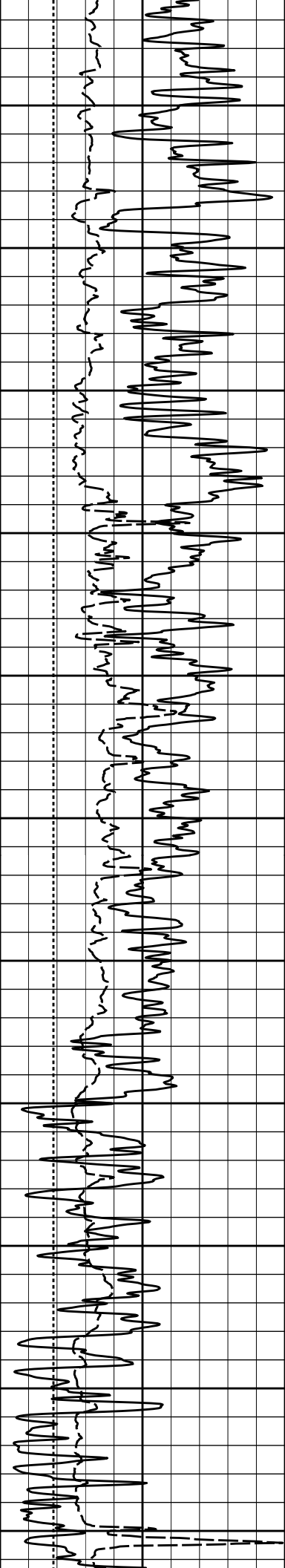
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Date: 02-Sep-13 03:23:24

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Plot Time: 02-Sep-13 06:52:53
Plot Range: 1575 ft to 5773.08 ft
Data: DEWELL B-1\Well Based\IR1 CASING\
Plot File: \\-LOCAL-IDEWELL B-1\Well Based\POROSITY\AHV_2_IQ_LIB

ANNULAR HOLE VOLUME PLOT





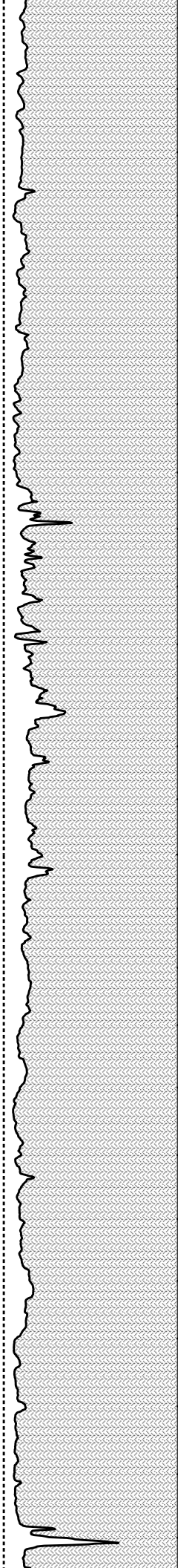
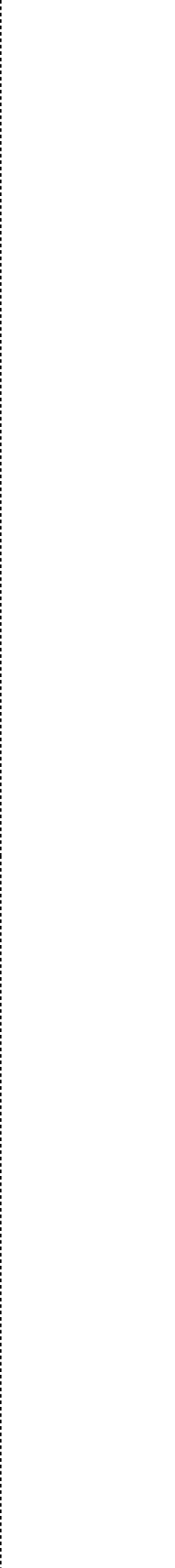
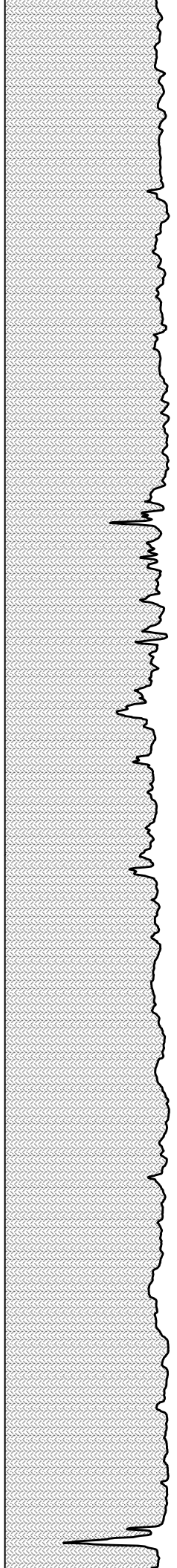
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