

COMPANY LINN ENERGY									
WELL McDONALD C-4 ATU45									
FIELD HUGOTON									
CNTY HAMILTON					STATE KS				
COMPANY LINN ENERGY WELL McDONALD C-4 ATU 45 FIELD HUGOTON COUNTY HAMILTON STATE KANSAS									
LOCATION: API# 15-075-20868					OTHER SERVICES: CRANE TRUCK				
SEC. 24 TWP. 26S RGE.39W									
PERM. DATUM GROUND LEVEL					ELEV. 3322'				
LOG MEASURED FROM K.B. 7 FT. ABOVE PERMANENT DATUM					ELEV.:K.B. 3329'				
DRILLING MEASURED FROM K.B.					D.F. ---- G.L. 3322'				
DATE	10-JUL-2013								
RUN NO.	ONE								
DEPTH DRILLER	3150.3								
DEPTH LOGGER	3100								
BTM. LOG INTERVAL	3100								
TOP LOG INTERVAL	2300								
OPEN HOLE SIZE	N/A								
TYPE FLUID	WATER								
DENS.	8.3								
VISC.	N/A								
MAX. REC. TEMP. ° F	N/A								
EST. CEMENT TOP	NA								
TIME WELL READY	ON ARRIVAL								
TIME LOGGER ON BTM.	0800								
EQUIP. NO.	14058								
LOCATION	LIBERAL, KS								
RECORDED BY	E. HULL								
WITNESSED BY	MR. JASON PHELPS								
BOREHOLE RECORD					TUBING RECORD				
RUN NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO		
CASING RECORD	SIZE	WT/FT	GRADE	TYPE JOINT	TOP	BOTTOM			
SURFACE STRING	8 5/8				SURF	700+			
PROT. STRING									
PROD. STRING	5 1/2	15.5			SURF	3150.3			
LINER									

REMARKS

MAIN LOG

DEPTH SCALE: 5":100'

VERSION: 147R 2.0b"

MAIN PASS

203259 MAIN

FINISH DEPTH: 2283.5 Feet DIRECTION: UP DATE: 07/10/2013 TIME: 10:15 MODE: ORIGINAL

Collar Locator

-5000.0 Millivolts 500.0

Gamma Ray

0 Counts/Second 150

OUTPUT QUALITY

0.0 200000.0

BGD FAR

0.0 3000.0

BGD NEAR

0.0 30000.0

RATIO

6.0 1.0

RBNF

5.0 15.0

FAR 1

40.0 Counts/Second 0.0

NEAR 1

240.0 Counts/Second 0.0

Tension

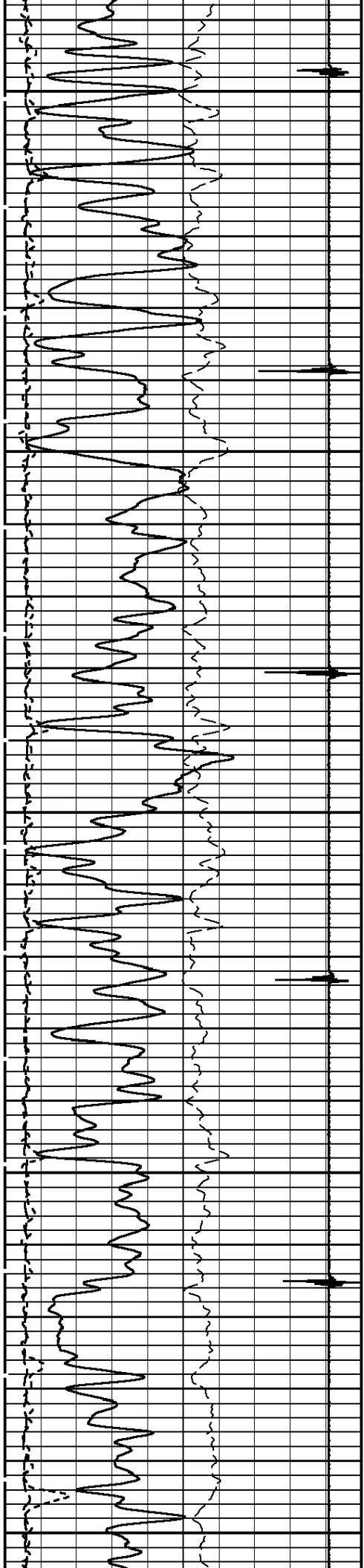
0 2000

Formation Sigma

60.0 0.0

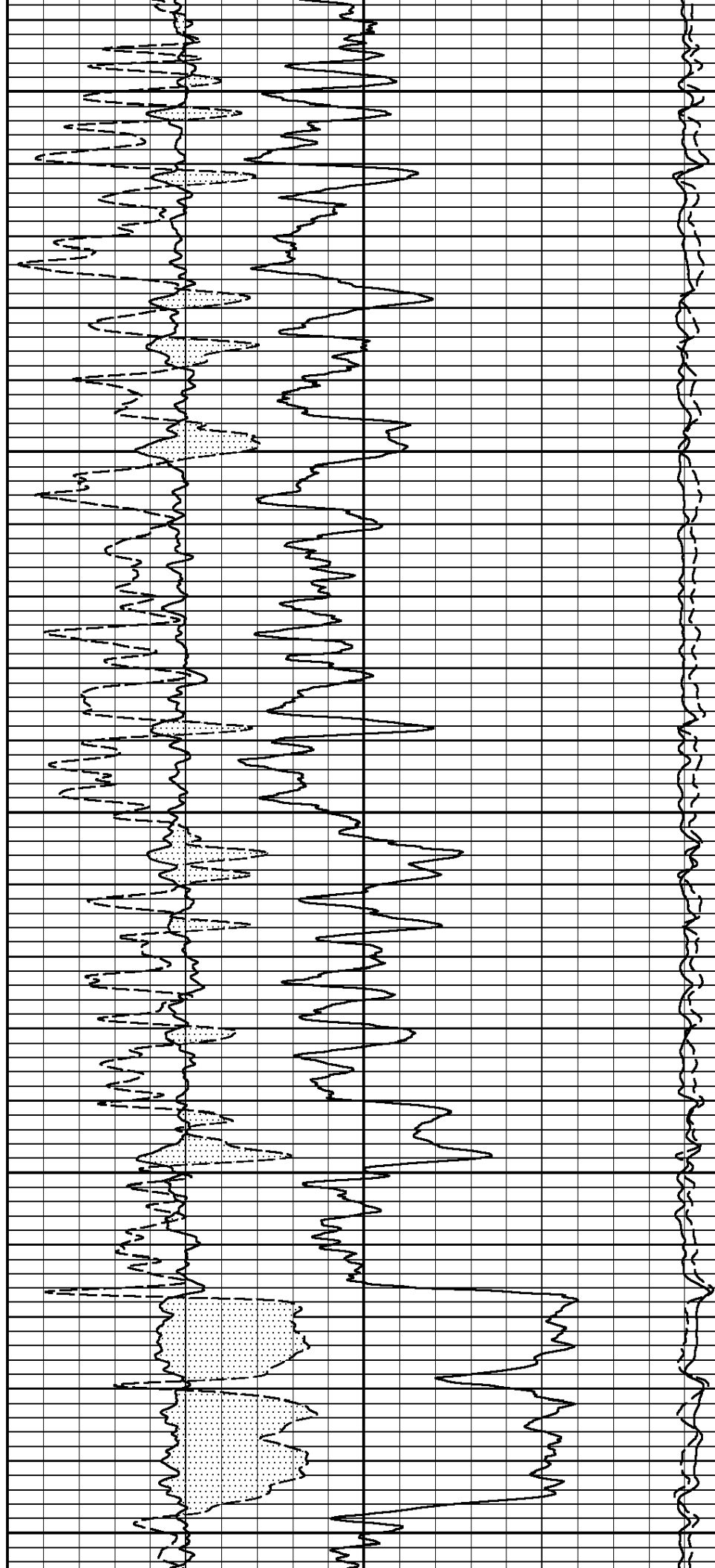
SHORT JOINT

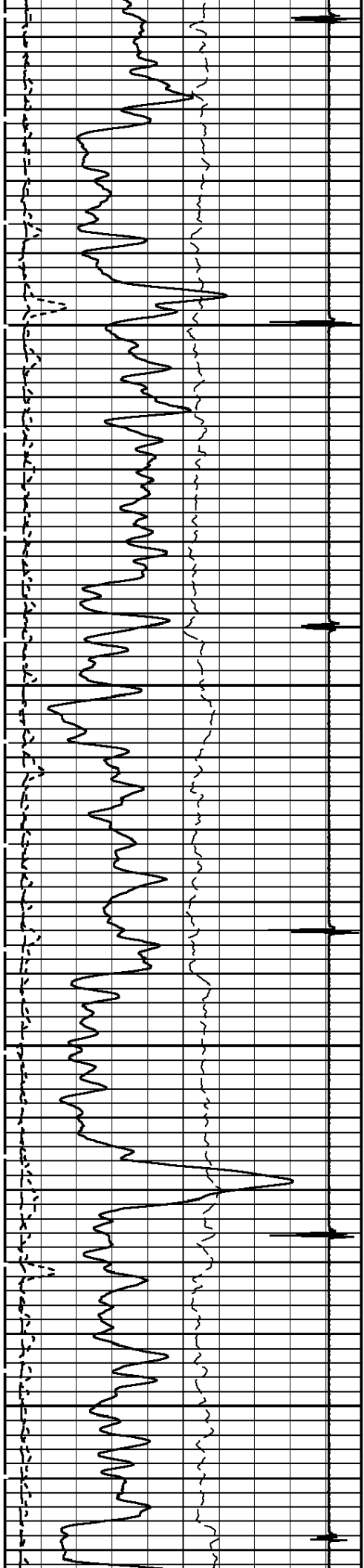
2300



2400

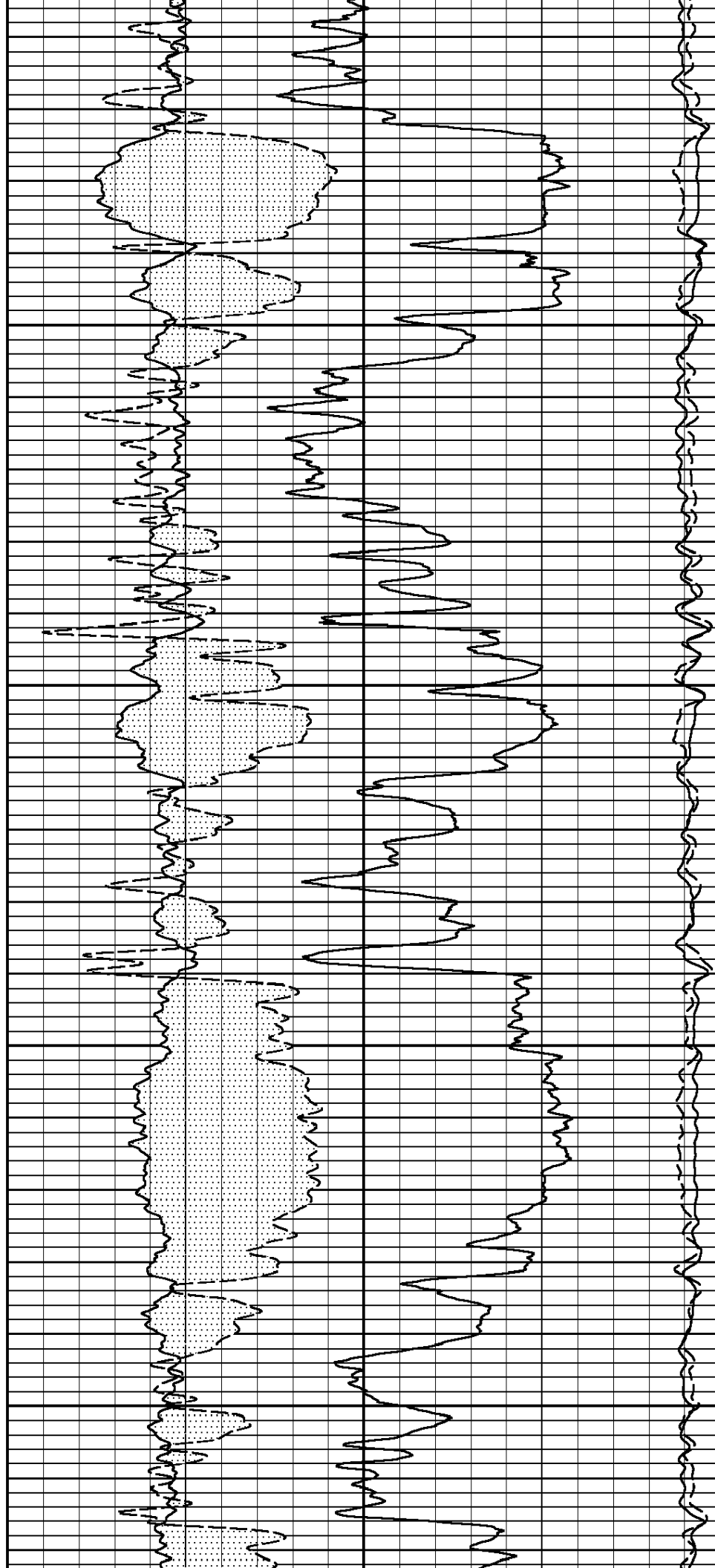
2500

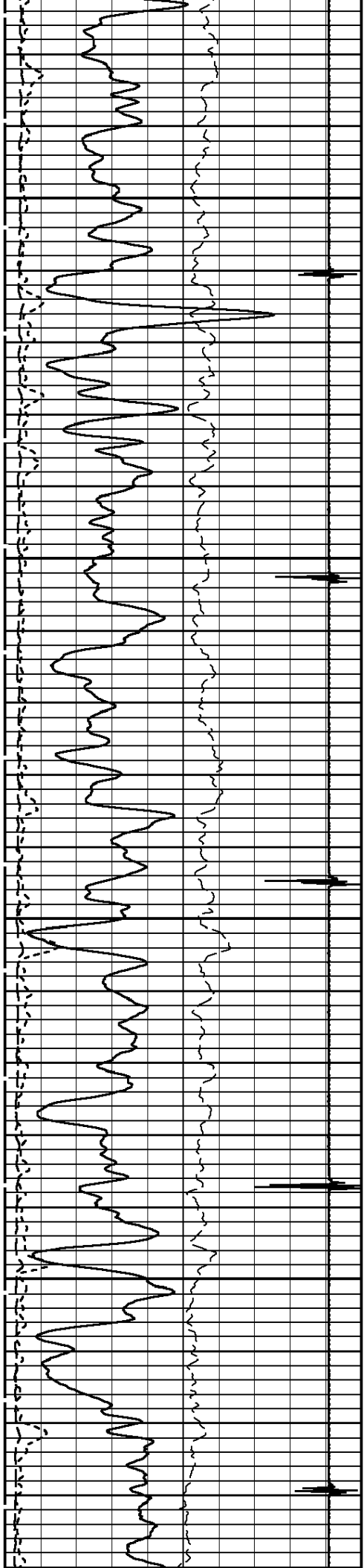




2600

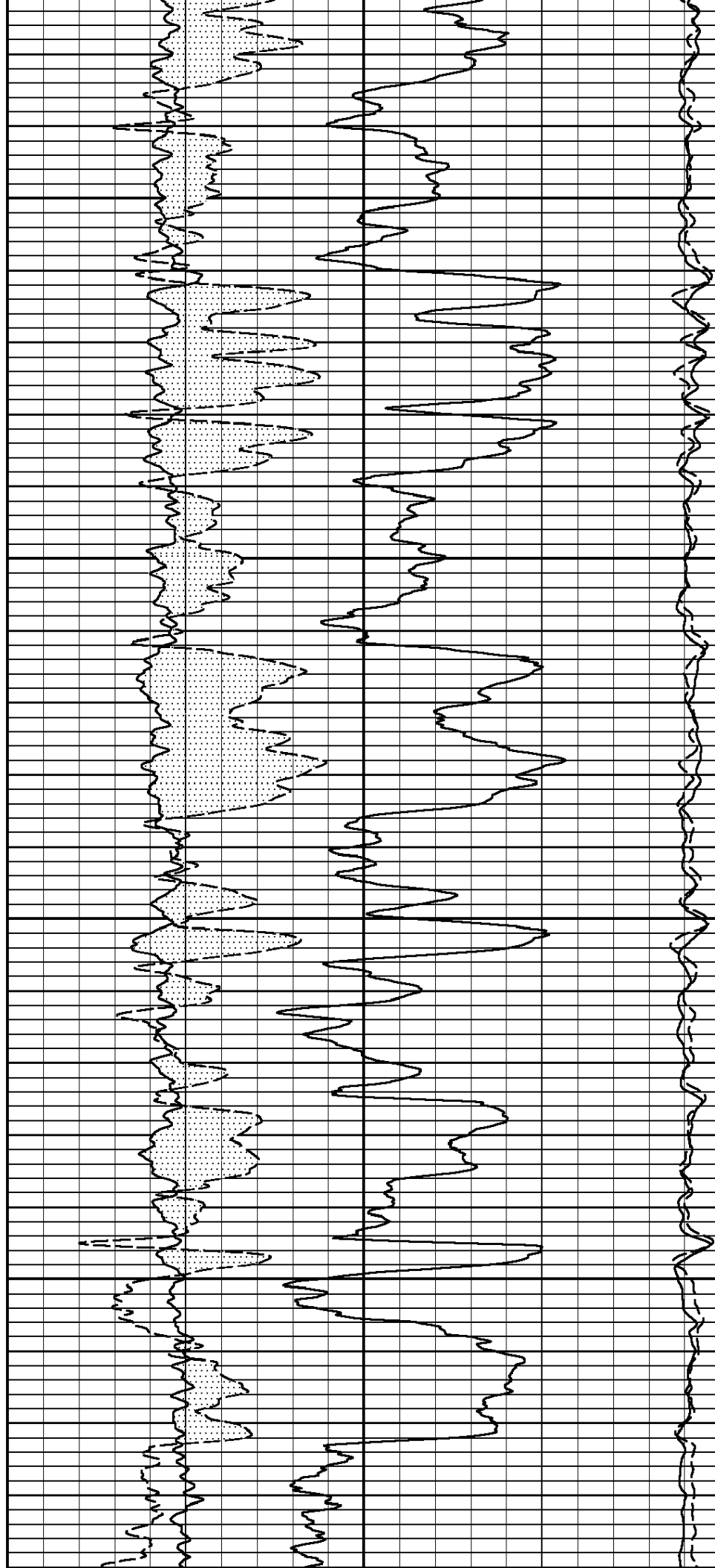
2700

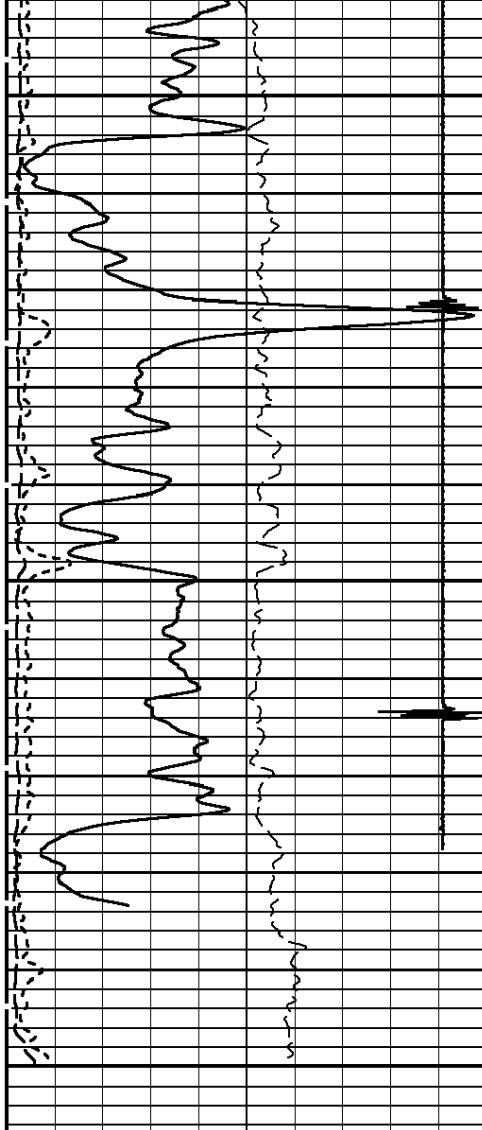




2800

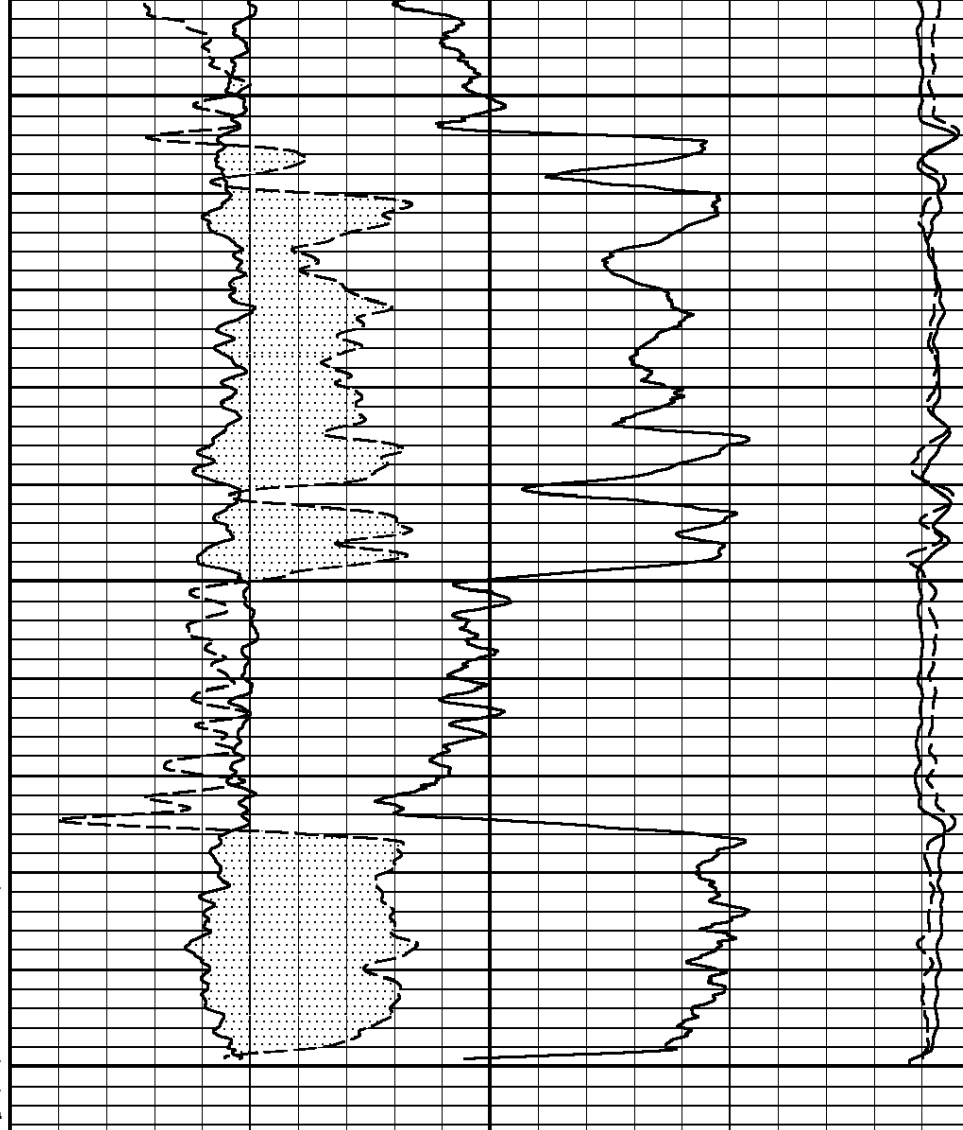
2900





3000

3100



BGD NEAR

Tension

Formation Sigma

0.0 30000.0

0 2000

60.0

0.0

BGD FAR

RBNF

NEAR 1

0.0 3000.0

5.0

15.0

240.0

Counts/Second

0.0

OUTPUT QUALITY

RATIO

FAR 1

0.0 200000.0

6.0

1.0

40.0

Counts/Second

0.0

Gamma Ray

0 Counts/Second 150

Collar Locator

-5000.0 Millivolts 500.0

START DEPTH: 3107.0 DIRECTION: UP DATE: 07/10/2013 TIME: 10:15 MODE: ORIGINAL

203259 MAIN

MAIN PASS

DEPTH SCALE: 5":100'

VERSION: 147R 2.0b"

DEPTH SCALE: 5":100'

VERSION: 147R 2.0b"

MERGED PASS

203259 ACTIVATION

FINISH DEPTH: 2250.9 Feet DIRECTION: UP DATE: 07/10/2013 TIME: 11:13 MODE: ORIGINAL

Collar Locator

-7500.0 Millivolts 750.0

Gamma Ray

0 Counts/Second 150

OUTPUT QUALITY

0.0 200000.0

BGD FAR

0.0 3000.0

BGD NEAR

0.0 30000.0

Tension

0 2000

RATIO

6.0 1.0

RBNF

5.0 15.0

FAR 1

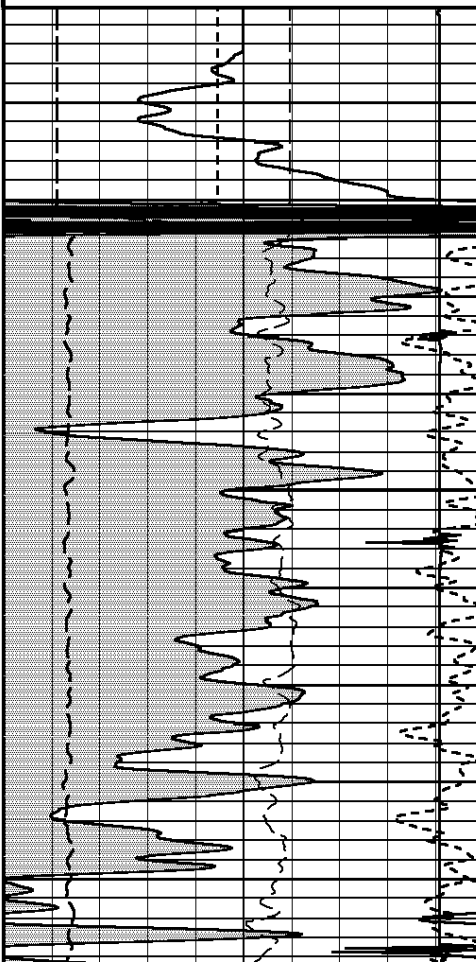
40.0 Counts/Second 0.0

NEAR 1

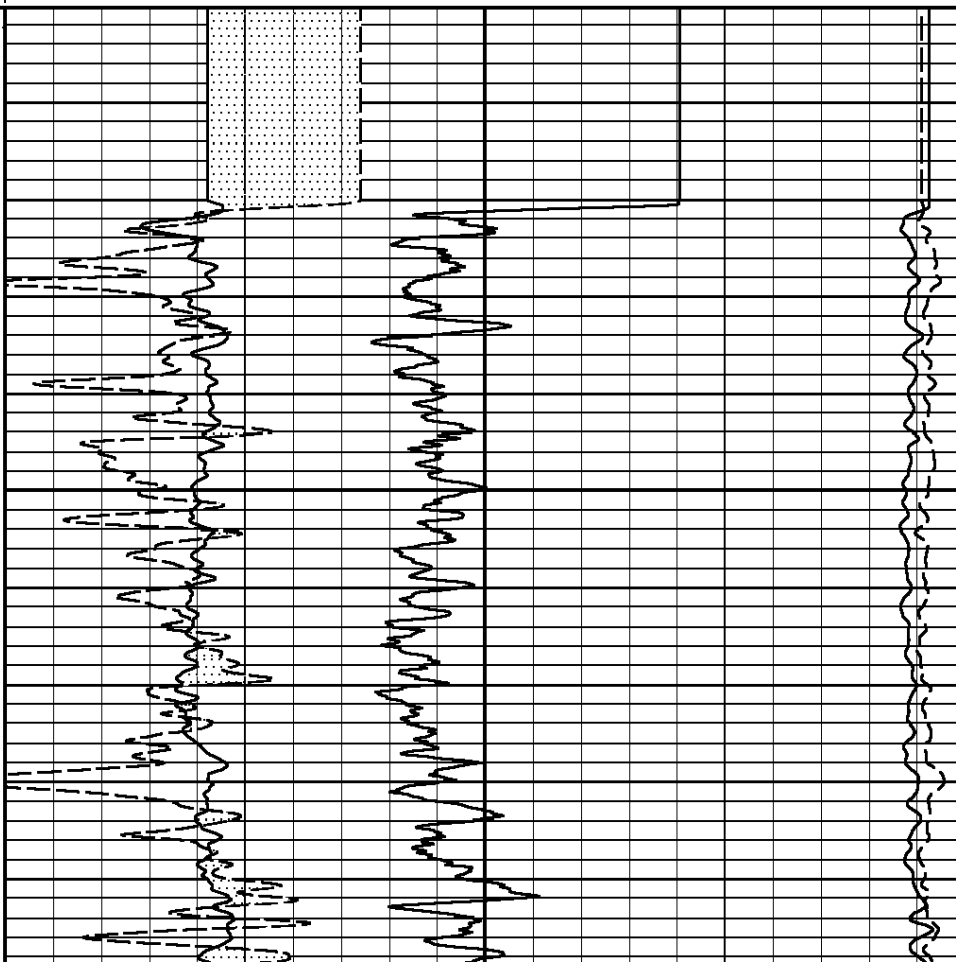
240.0 Counts/Second 0.0

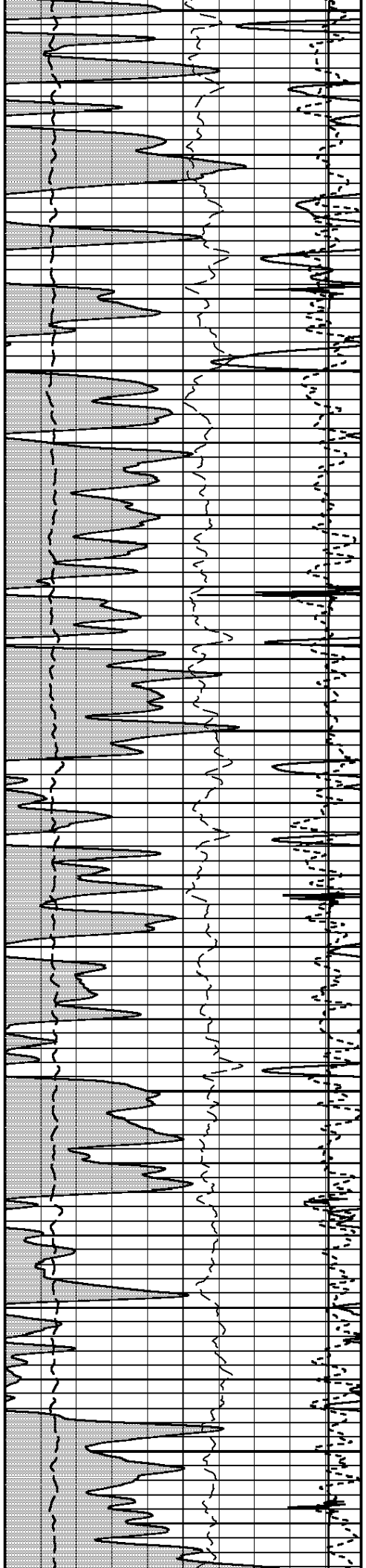
Formation Sigma

60.0 0.0



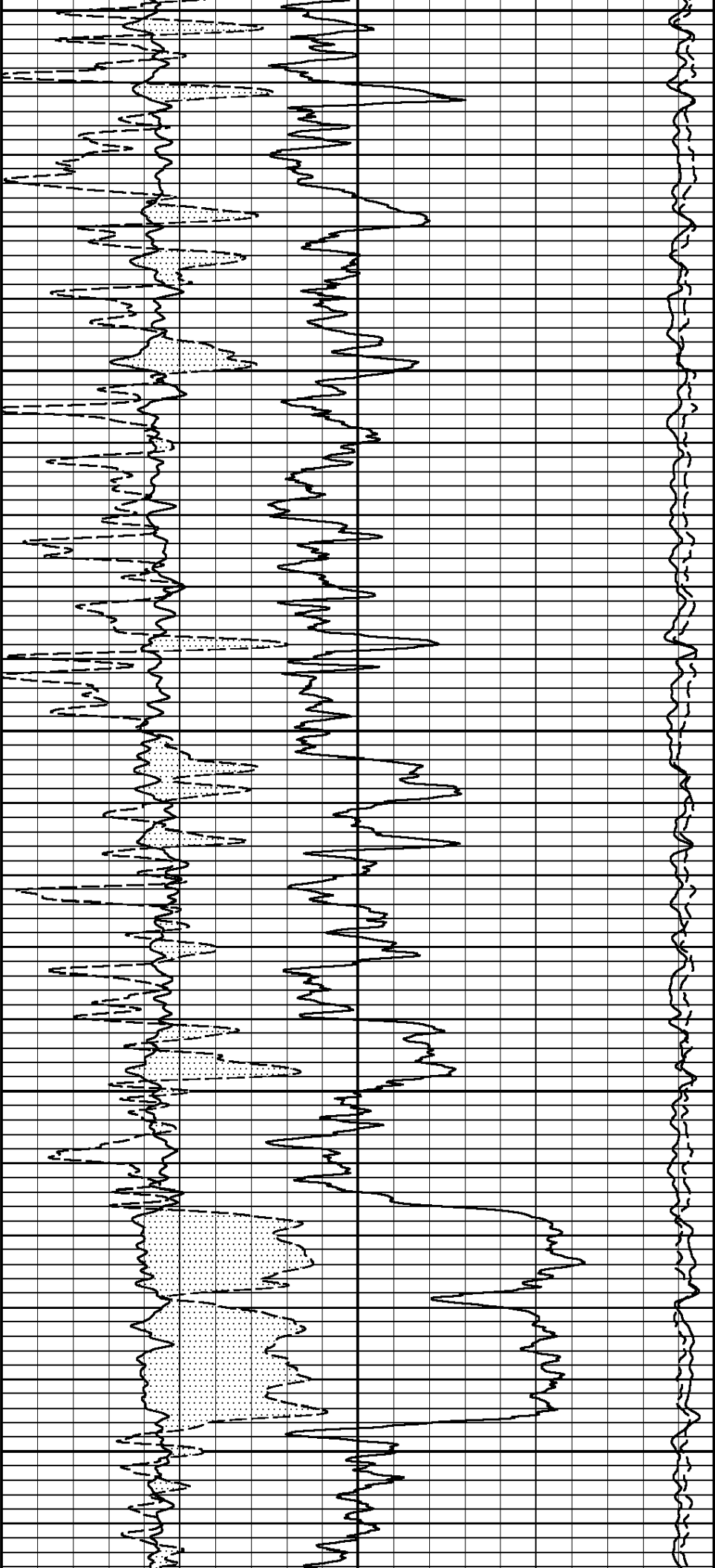
2300

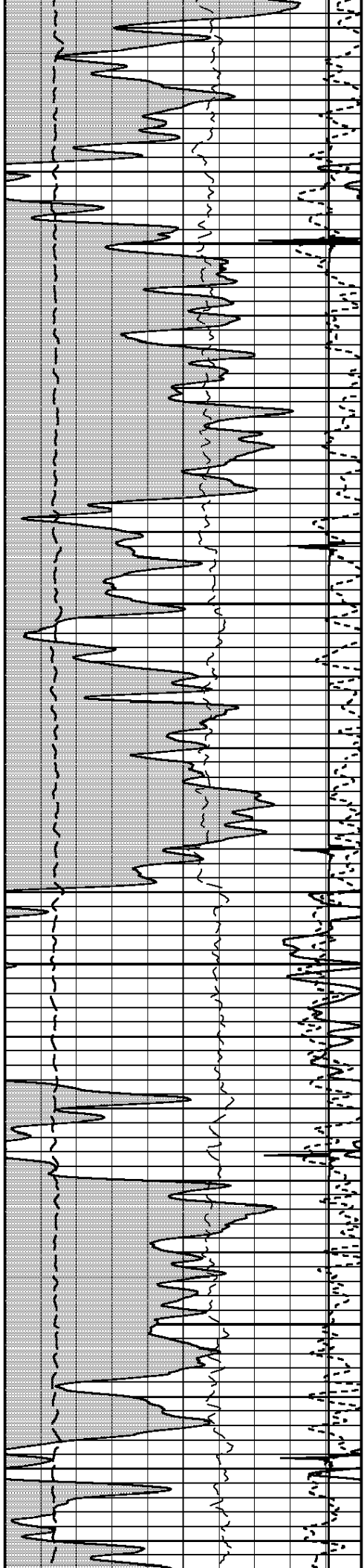




2400

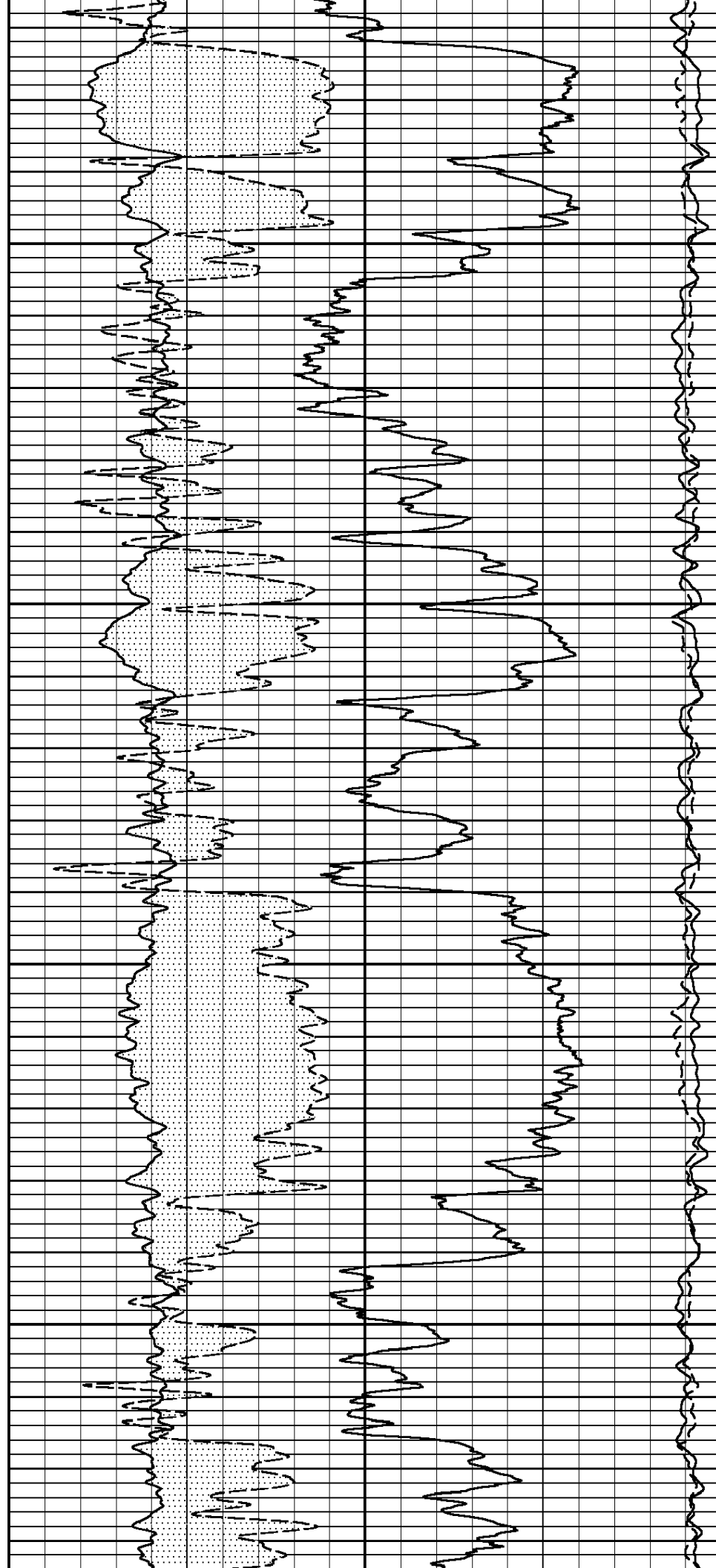
2500

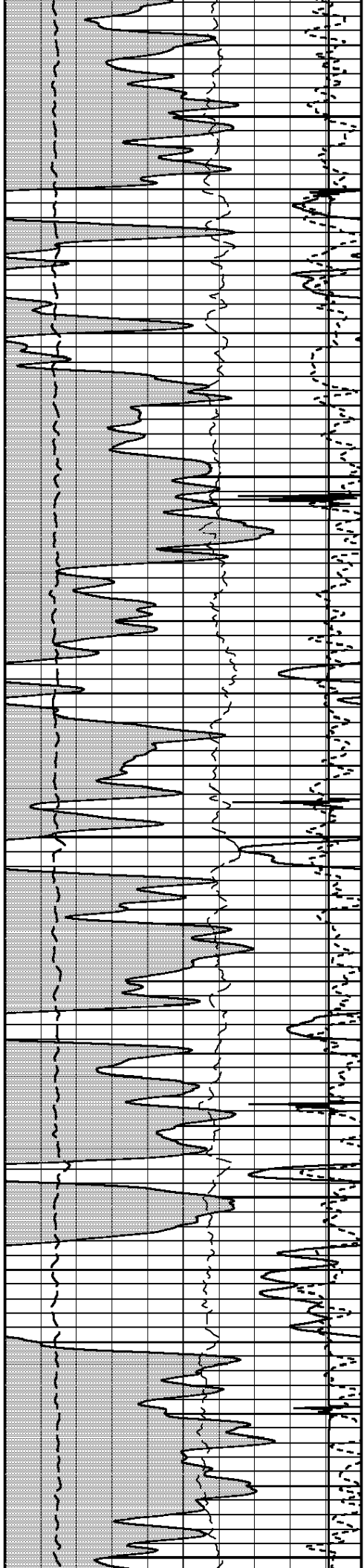




2600

2700

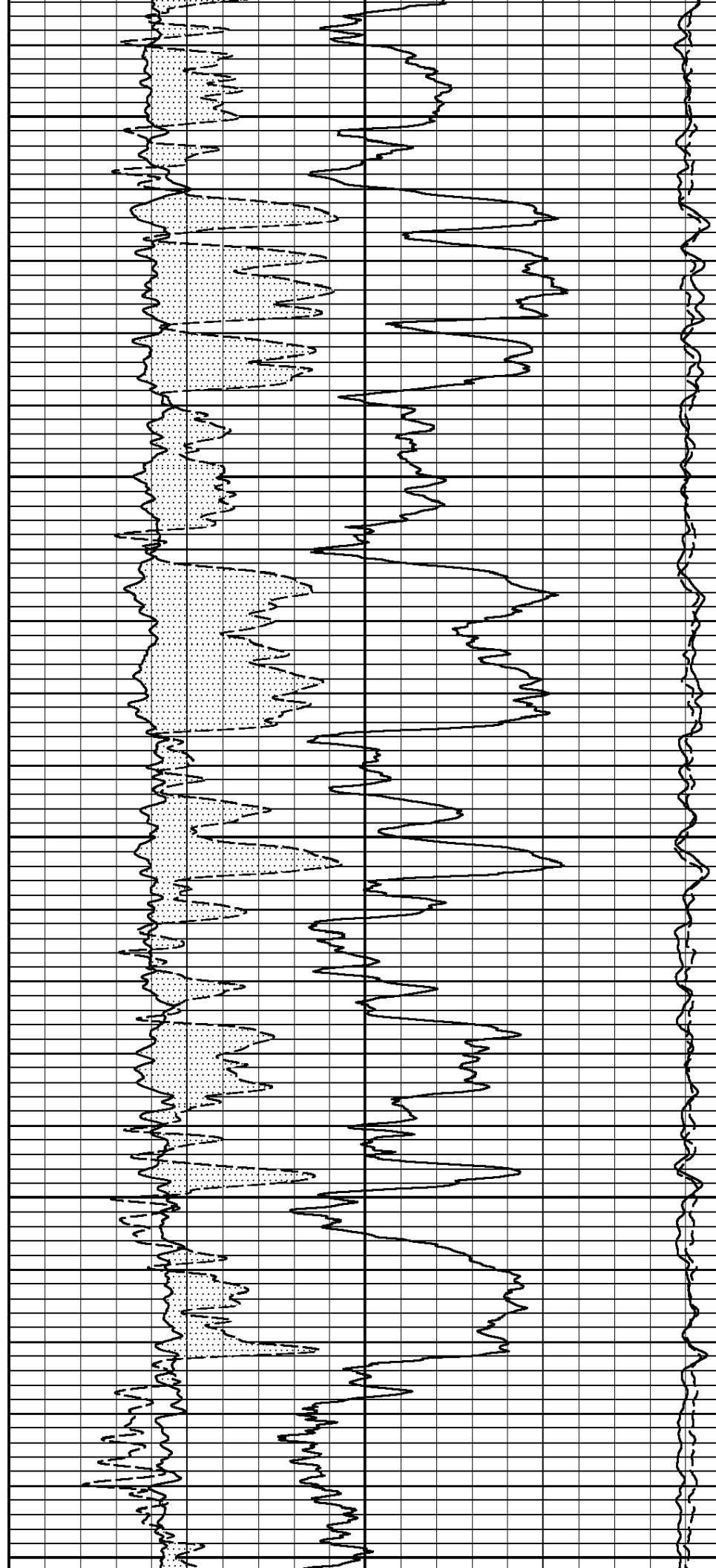


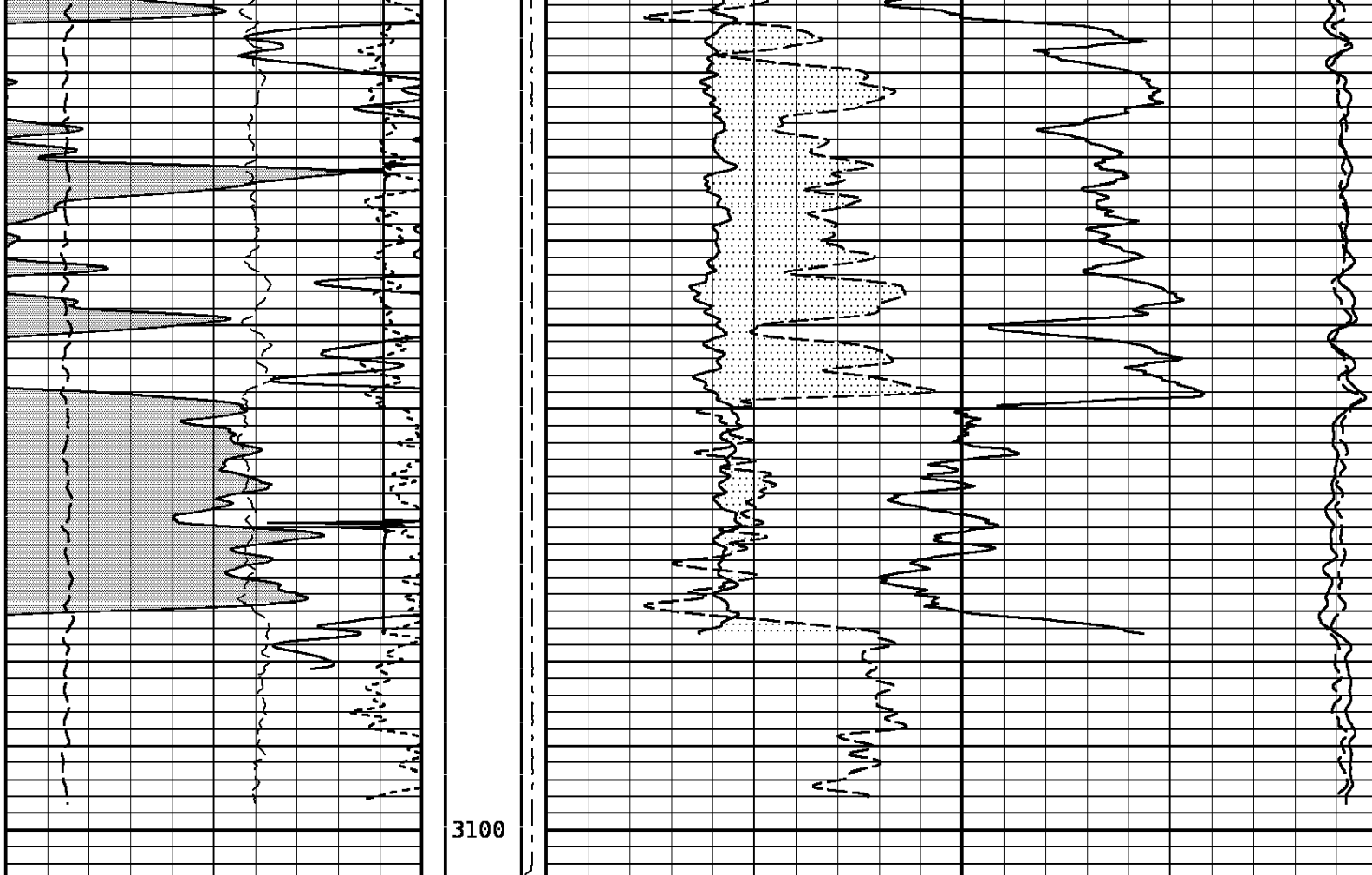


2800

2900

3000





BGD NEAR			Tension	Formation Sigma						
0.0		30000.0		0	2000	60.0				0.0
BGD FAR				RBNF			NEAR 1			
0.0		3000.0		5.0		15.0	240.0	Counts/Second		0.0
OUTPUT QUALITY				RATIO			FAR 1			
0.0		200000.0		6.0		1.0	40.0	Counts/Second		0.0
Gamma Ray										
0	Counts/Second	150								
Collar Locator										
-7500.0	Millivolts	750.0								

START DEPTH: 3106.5 DIRECTION: UP DATE: 07/10/2013 TIME: 11:13 MODE: ORIGINAL

203259 ACTIVATION

MERGED PASS

DEPTH SCALE: 5":100'

VERSION: 147R 2.0b"

REMARKS

REPEAT SECTION

DEPTH SCALE: 5":100'

VERSION: 147R 2.0b"

203259

FINISH DEPTH: 2872.5 Feet DIRECTION: UP DATE: 07/10/2013 TIME: 11:20 MODE: ORIGINAL

Collar Locator

-5000.0 Millivolts 500.0

Gamma Ray

0 Counts/Second 150

OUTPUT QUALITY

0.0 300000.0

BGD FAR

0.0 3000.0

BGD NEAR

0.0 30000.0

RATIO

6.0 1.0

RBNF

5.0 15.0

FAR 1

40.0 Counts/Second 0.0

NEAR 1

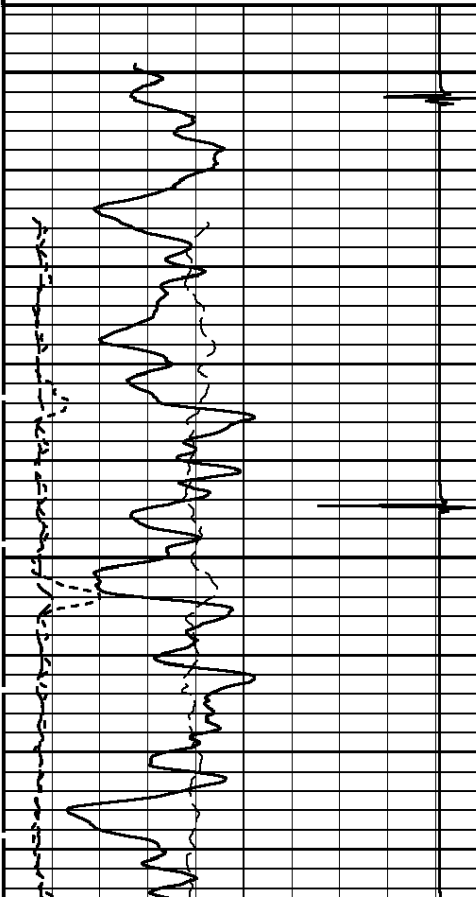
240.0 Counts/Second 0.0

Tension

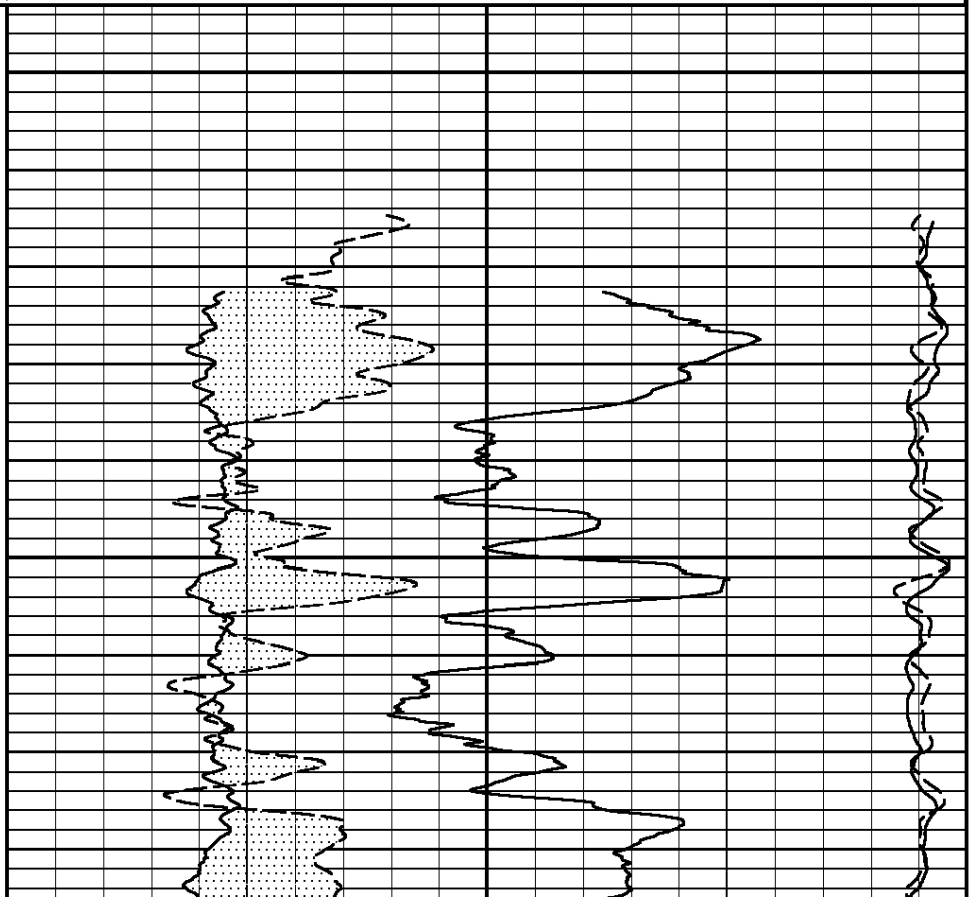
0 2000

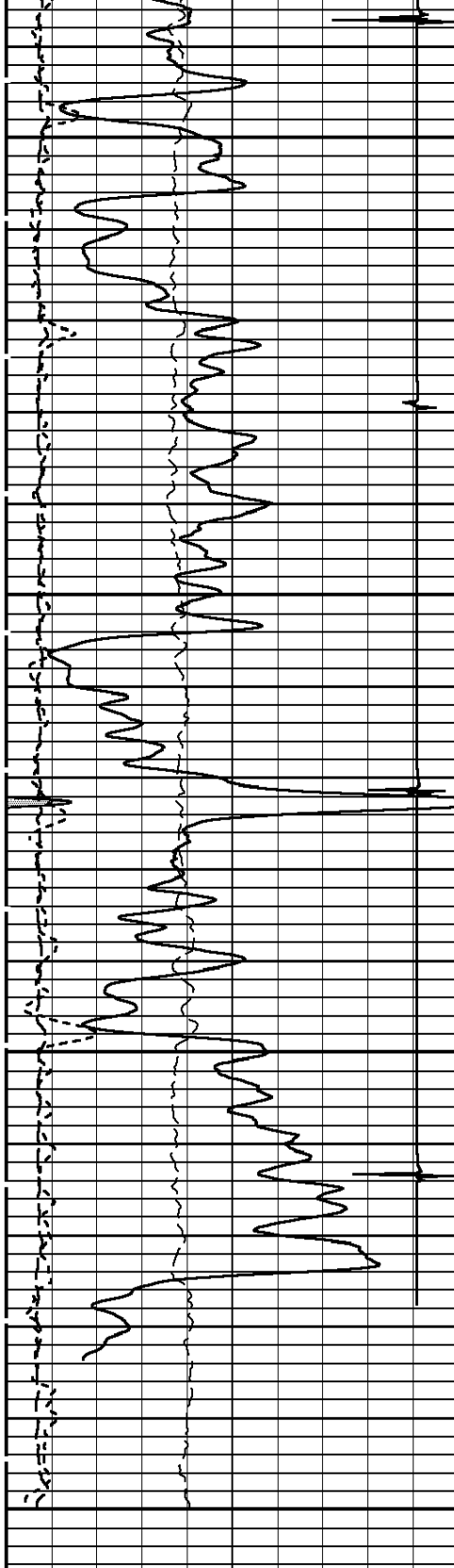
Formation Sigma

60.0 0.0



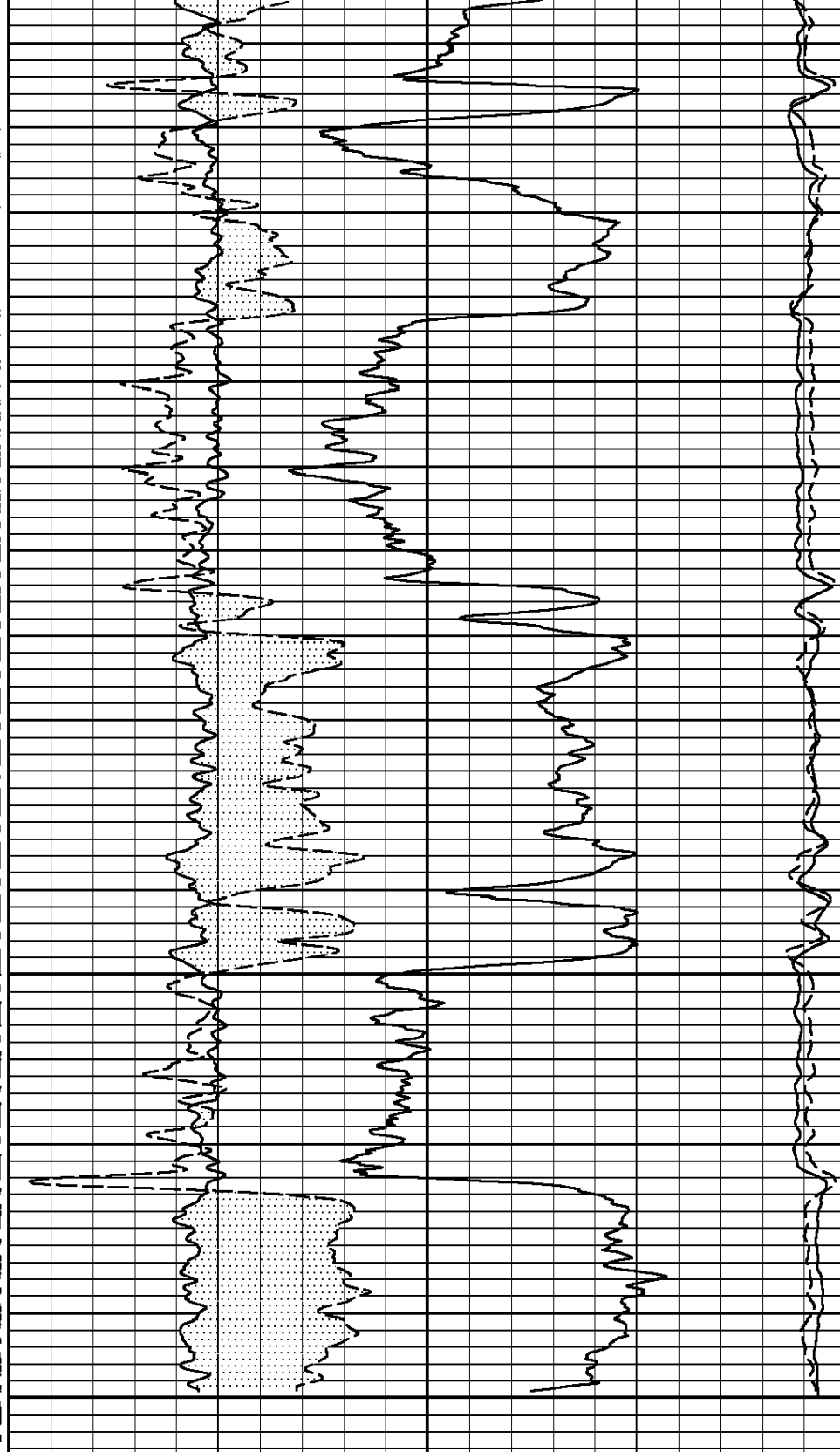
2900





3000

3100



BGD NEAR		Tension	Formation Sigma			
0.0	30000.0		60.0			0.0
BGD FAR		Tension	RBNF		NEAR 1	
0.0	3000.0		5.0	15.0	240.0	Counts/Second 0.0
OUTPUT QUALITY		Tension	RATIO		FAR 1	
0.0	300000.0		6.0	1.0	40.0	Counts/Second 0.0
Gamma Ray						

0	Counts/Second	150
Collar Locator		
-5000.0	Millivolts	500.0

START DEPTH: 3107.0	DIRECTION: UP	DATE: 07/10/2013	TIME: 11:19	MODE: ORIGINAL
203259				

DEPTH SCALE: 5":100'	VERSION: 147R 2.0b"
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COMPANY	LINN ENERGY		
WELL	McDONALD C-4 ATU 45		
FIELD	HUGOTON		
COUNTY	HAMILTON	STATE	KANSAS

