

Company **CMX INCORPORATED**
Well **CLAFLIN #1-34**
Field **KRAFT-PRUSA**
County **BARTON**
State **KANSAS**

RECON

COMPENSATED NEUTRON
LITHOLOGY DENSITY
GAMMA RAY X-Y CALIPER
MICROLOG

			OTHER SERVICES:	
			DIL	
SEC	TWP	RGE		
34	16S	11W		
Location. 1320' FNL & 1470' FWL				
SURF. SAME		AP#.	W2/W2/E2/NW 015-009-26090-0000	
Permanent Datum	Ground Level	Elev	1933	
Log Measured From	Kelly Bushing		ELEVATIONS K.B. 1946 G.L. 1933 D.F. N/A	
Drilling Measured From	Kelly Bushing			

Date	01-APR-2015		
Run No.	ONE		
TD Driller	3388	ft	ft
TD RECON	3387	ft	ft
Bot Logged Interval	3386	ft	ft
Top Logged Interval	460	ft	ft
Casing Depth Driller	8 5/8	in.	@ 478
Casing Depth RECON	8 5/8	in.	@ 478
Bit Size	7 7/8	in.	in.
Drilling Fluid Type	WBM		
Density	9.0	Viscosity	65
Fluid Loss	PH	6.0	11.4
Source Of Sample	Flowline		
RM @ Measured Temp	1.67	Ohmm	@ 75
RMF @ Measured Temp	1.25	Ohmm	@ 75
RMC @ Measured Temp	2.09	Ohmm	@ 75
RM @ MRT	1.19	Ohmm	@ 107
Max Recorded Temp	107	DegF	Ohmm DegF
Time Drilling Stopped	01-APR-2015	12:00	
Time Circulation Stopped	01-APR-2015	13:00	
Time Logger On Bottom	02-APR-2015	01:38	
Unit Num	Location	S406	OKLAHOMA CITY, OK
Recorded By	K.HELDERMON		
Witnessed By	K.LEBLANC		

FIELD PRINT

FIELD PRINT

All interpretations are based on inferences from electrical or other readings, and therefore, RECON cannot and will not guarantee the accuracy of any interpretations of log data. RECON shall not be liable for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from

interpretations made by any of our officers, agents or employees, except in the case of provable Gross Neglegence or willfull damage. Interpretations are also subject to the terms and conditions of our Price Schedule and General Service Agreement.

RIG INFORMATION

Drill Contr/Rig#

DUKE #7

GENERAL REMARKS SECTION

FIRST RUN IN THE HOLE

CNL AND LDT LOGGED IN A LIMESTONE MATRIX

TOP MARK - 525, BOTTOM MARK - 3227.6

CNL/LDT LOGGED MATRIX: 2.71 g/cc.

CHLORIDES: 3400

LCM: 2

AHV CALCULATED ON 5.5" PROD. CASING

CEMENT VOLUME CALCULATIONS SUMMARY

Tool Type Tool Serial #	LDT-CNT	Caliper Type	X-Y CALIPERS			
	RN2007 / RL4101					
	Borehole Total	Annular Volume with Casing	From Depth (MKb)	To Depth (MKb)		
VOLUMES	1296 Cubic Feet	811 Cubic Feet	460	3387		
CASING INFORMATION						
	SIZE (in)	GRADE	WEIGHT (lbs/ft)	ID (in)	TOP DEPTH	BOT DEPTH
SURFACE CASING	8 5/8	J-55	24	8.098	Surface	478
INTERMEDIATE CASING	N/A	N/A	N/A	N/A	Surface	N/A
PRODUCION CASING	5 1/2	J-55	15.5	4.950	Surface	3388

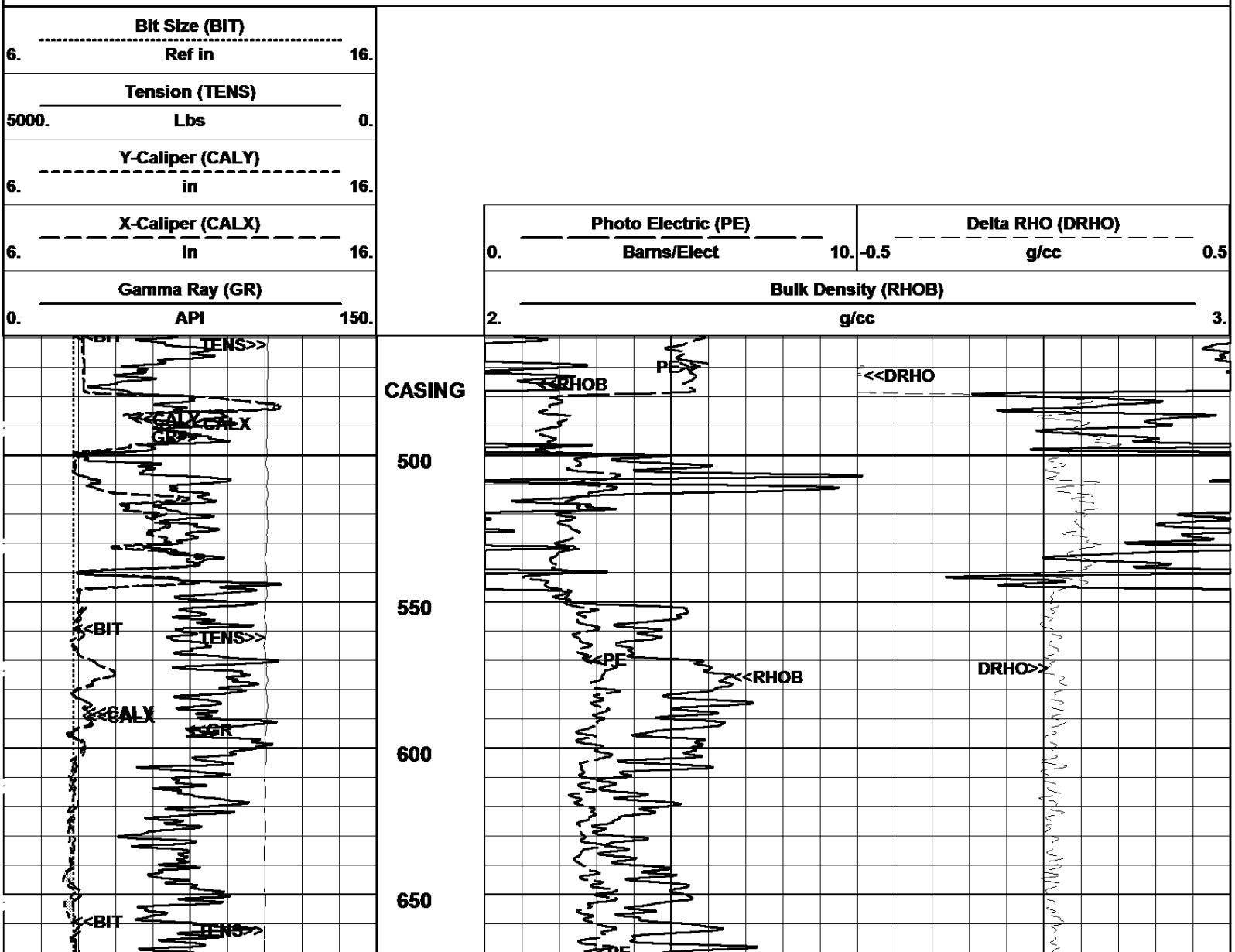
04/02/2015

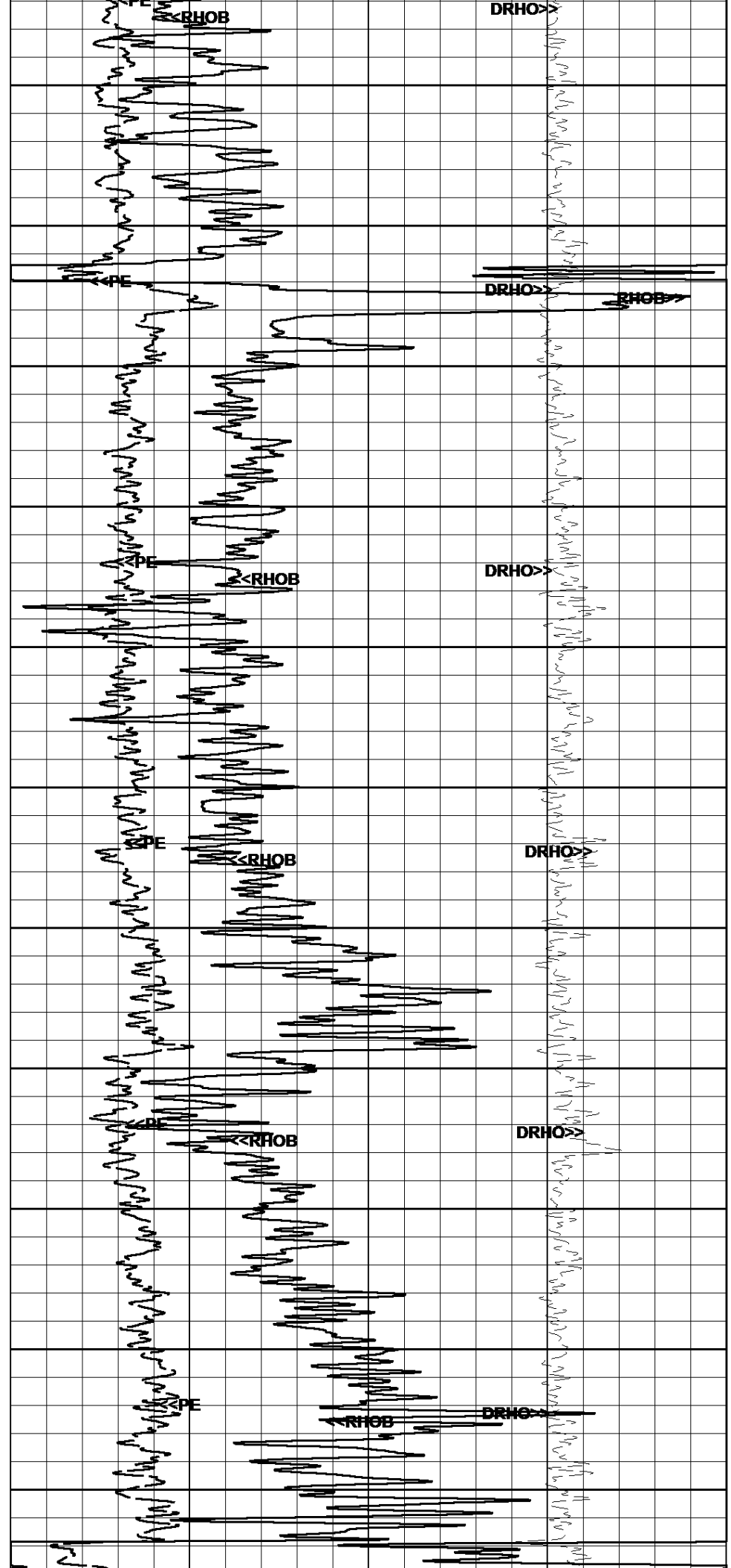
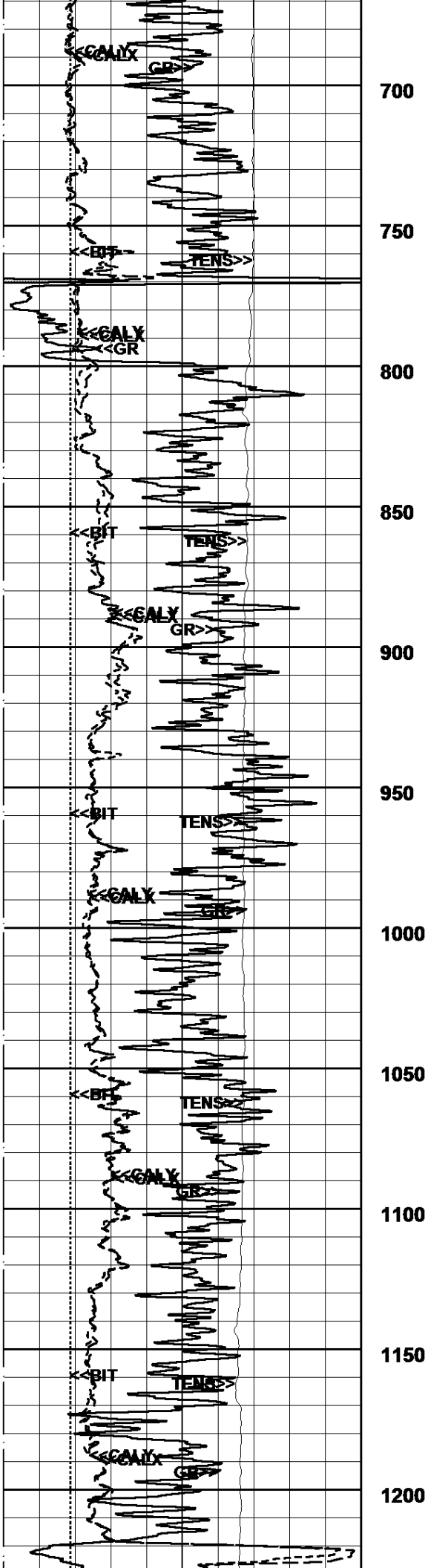
04:22:02 => End Time

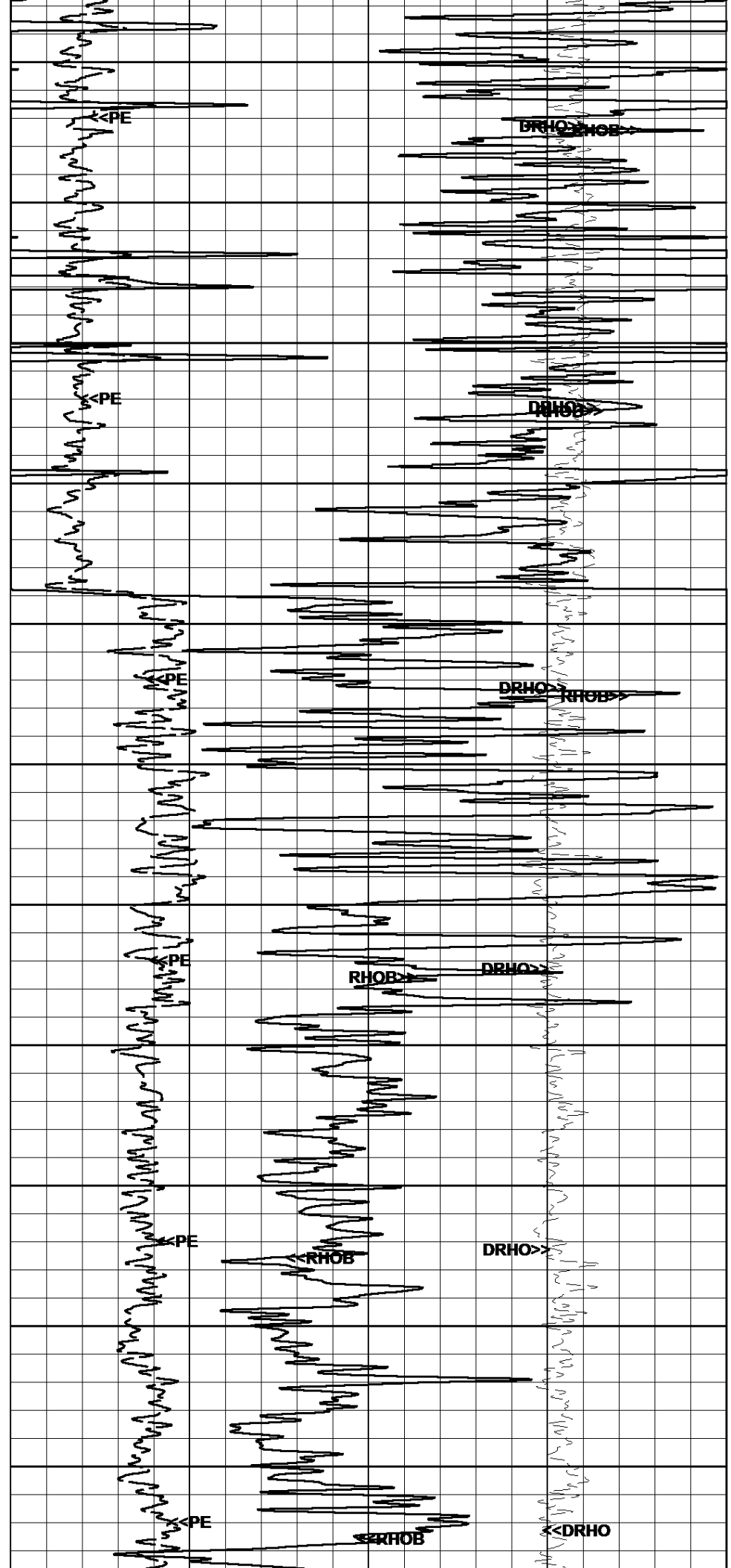
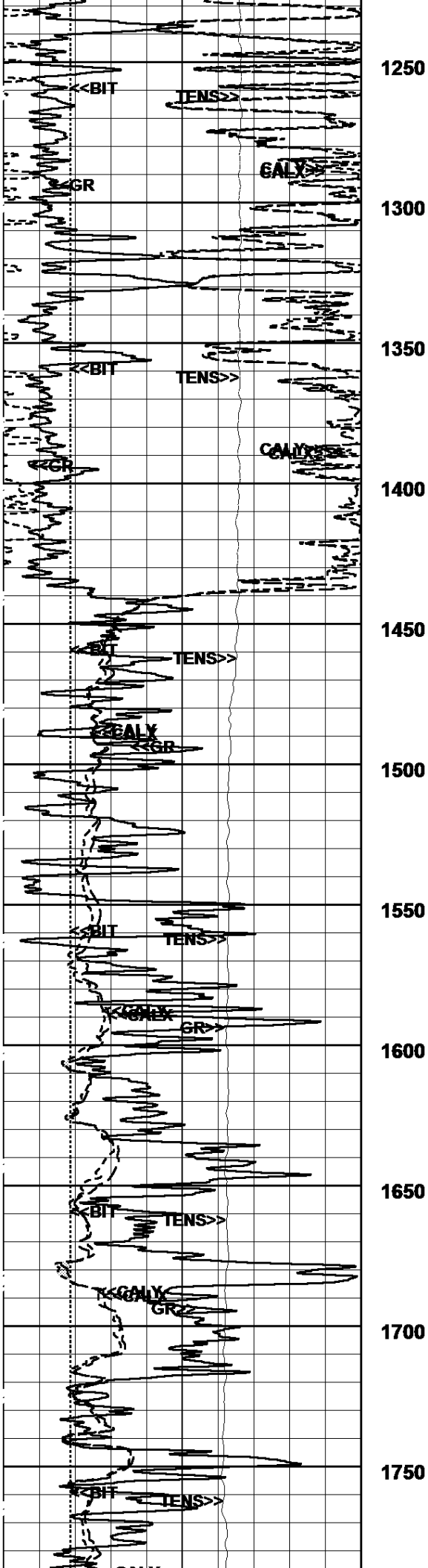
MAIN PASS - RHOB (2"/100ft)

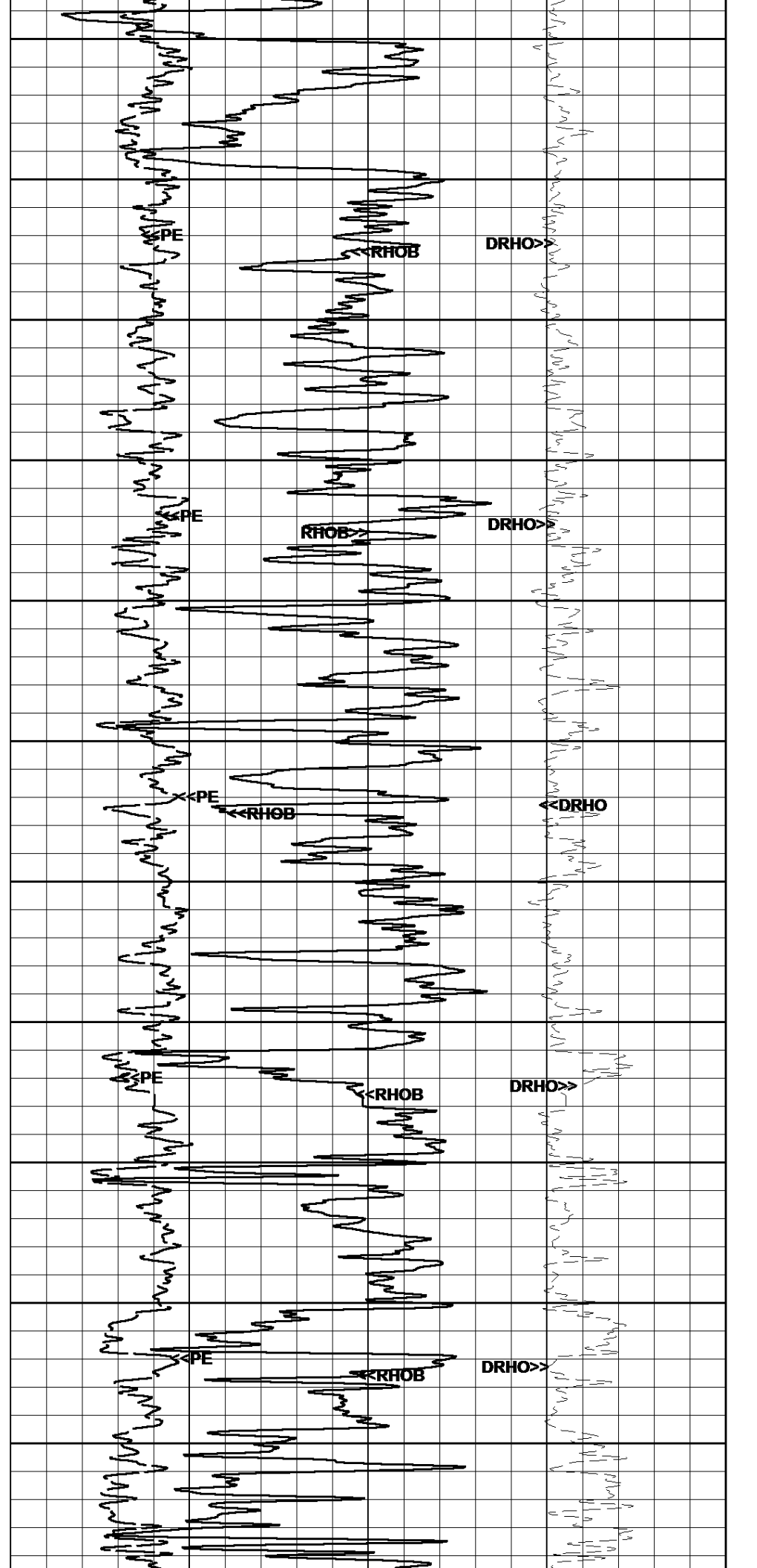
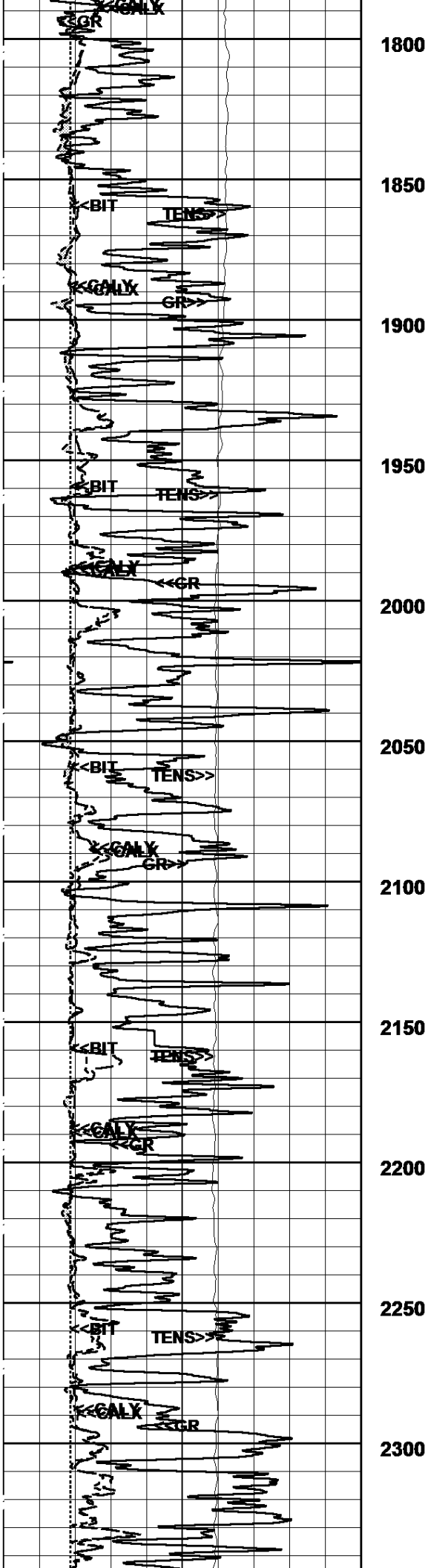
Log UP - (VER 11.19)

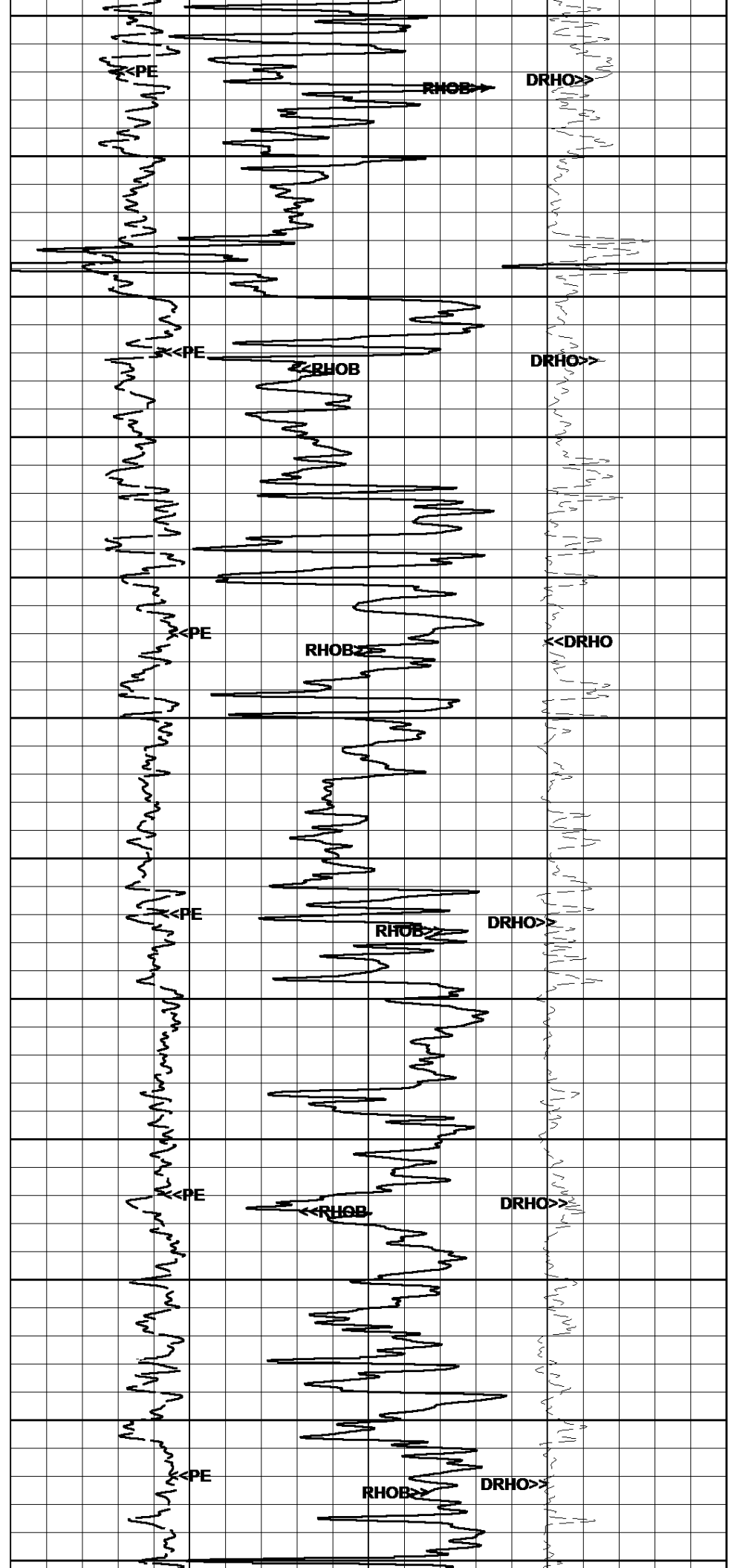
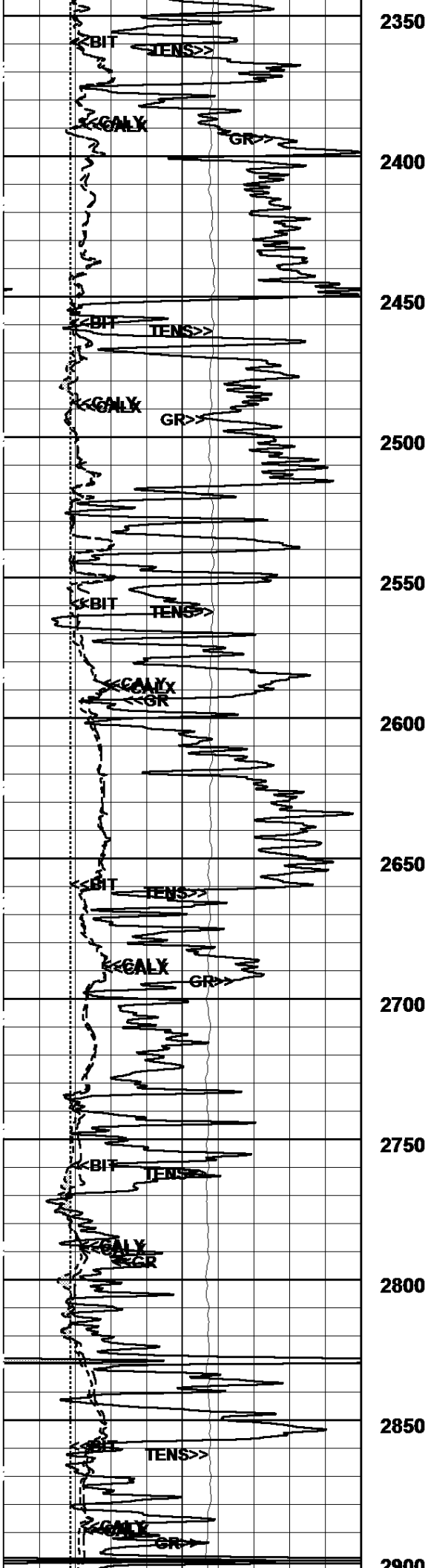
End Depth=> 459.75 Feet

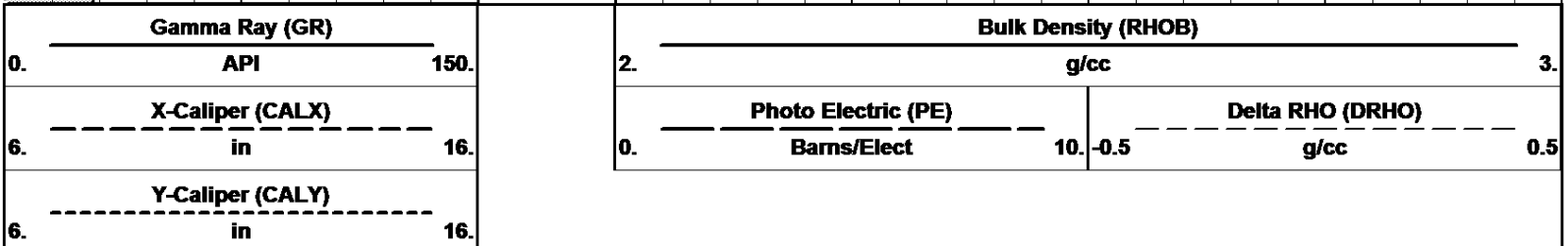
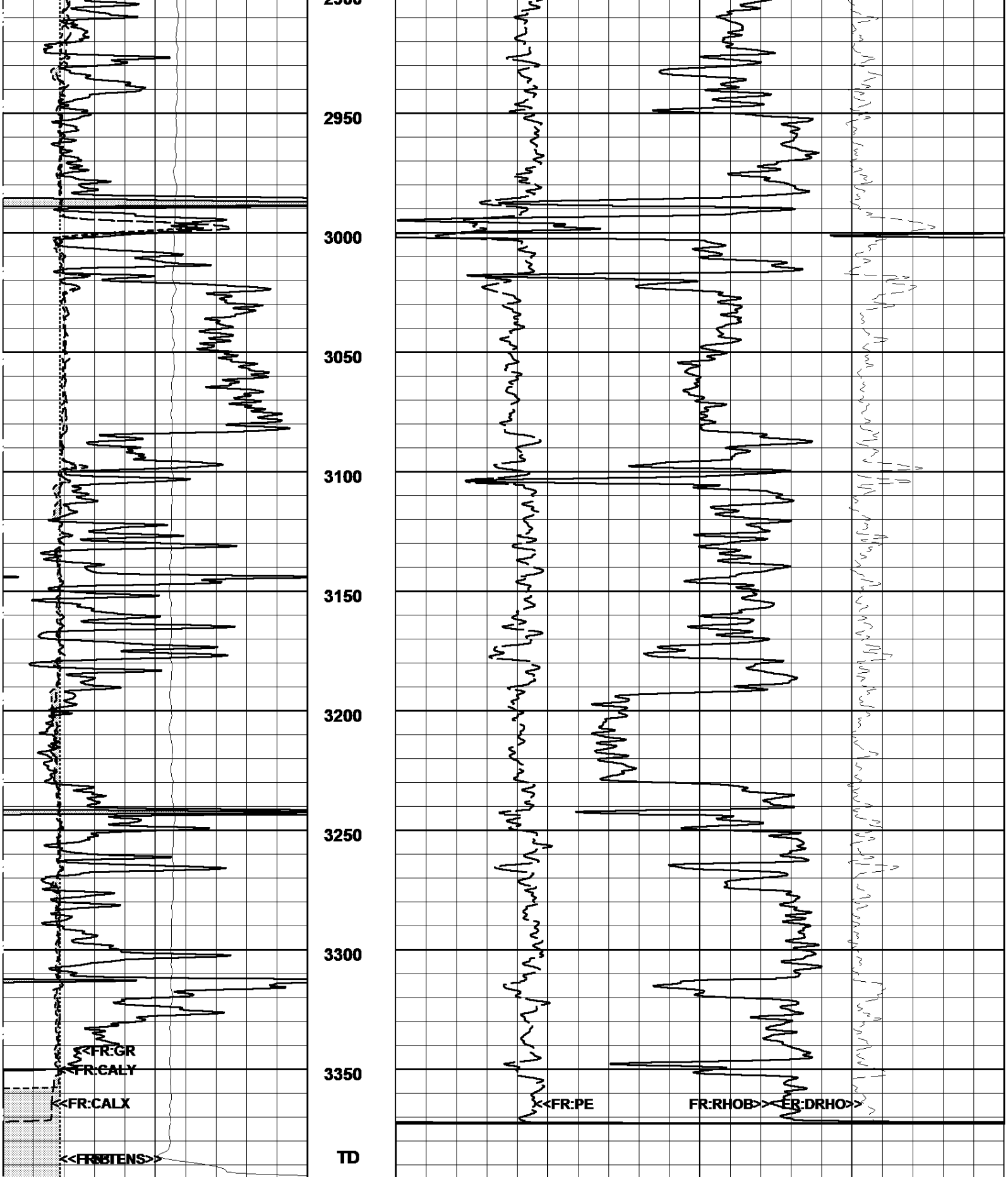






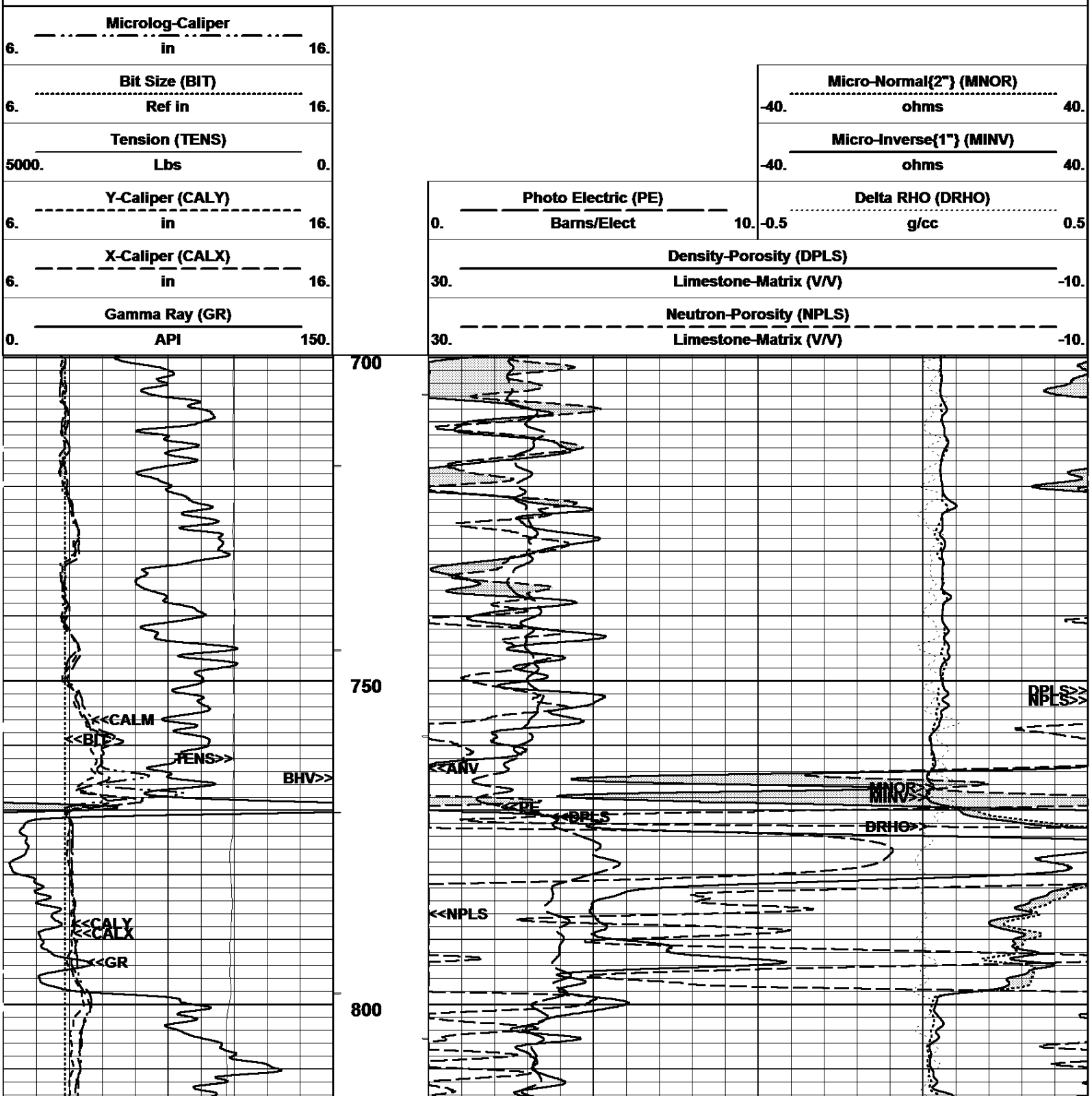


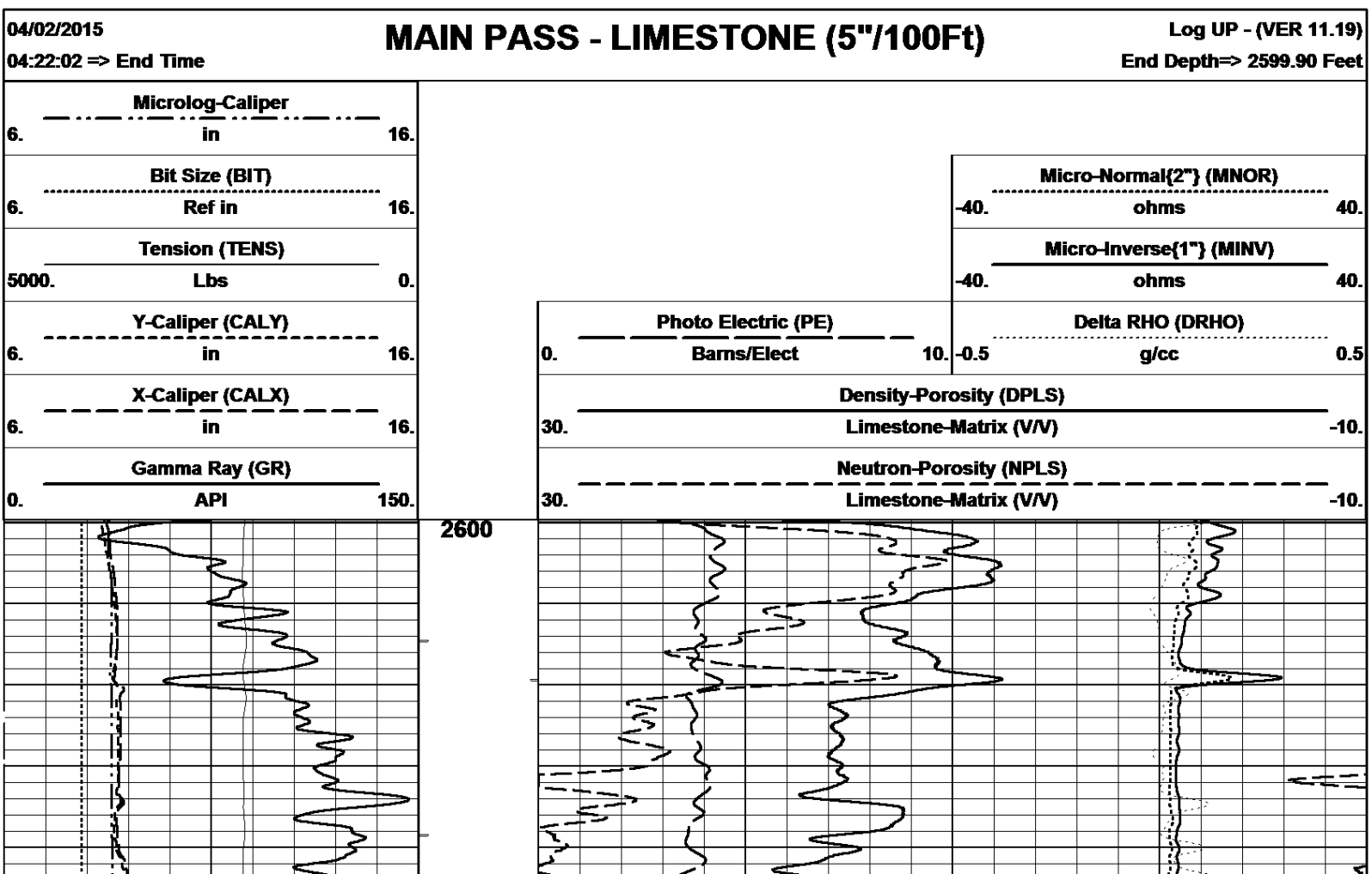
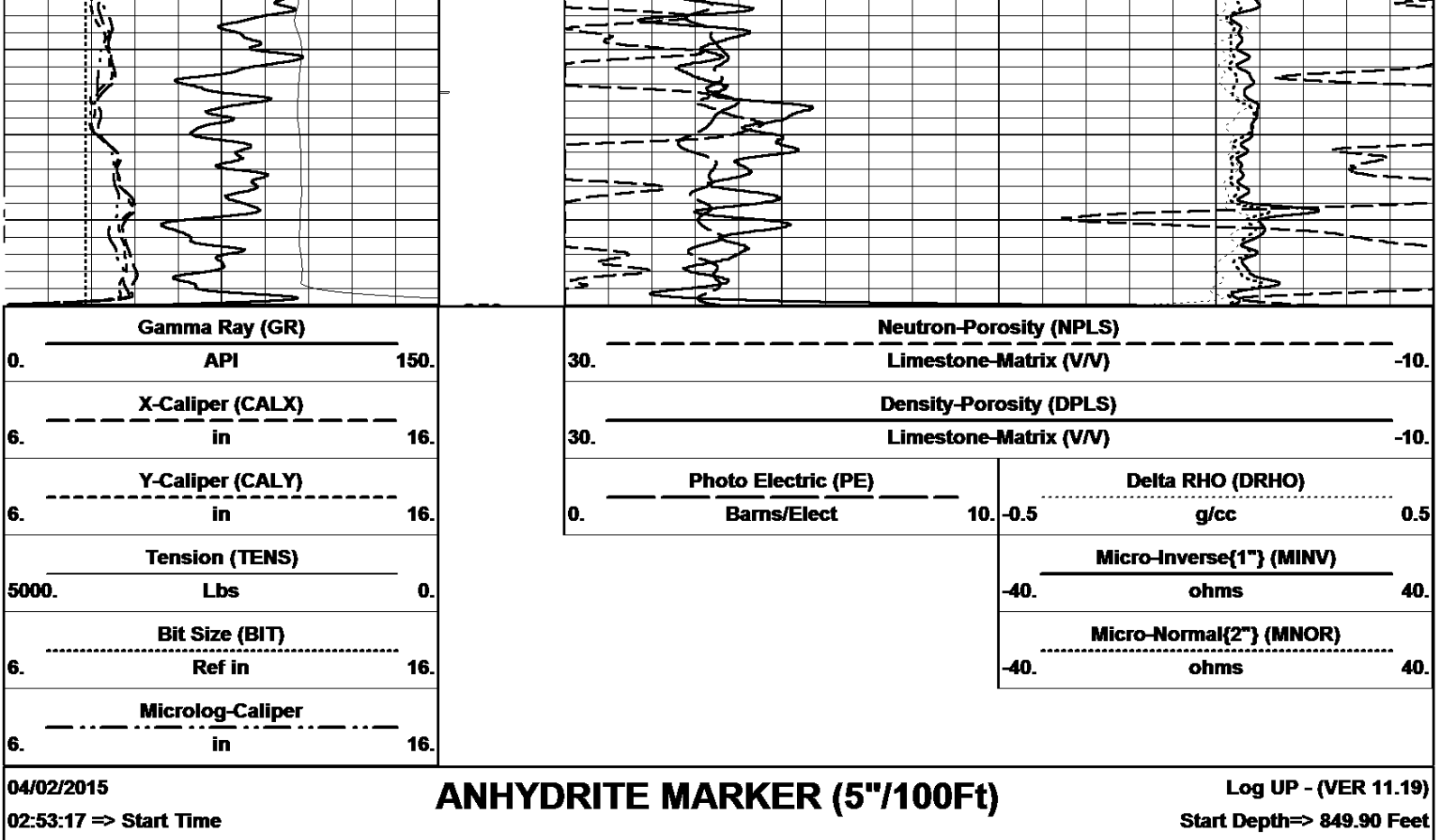


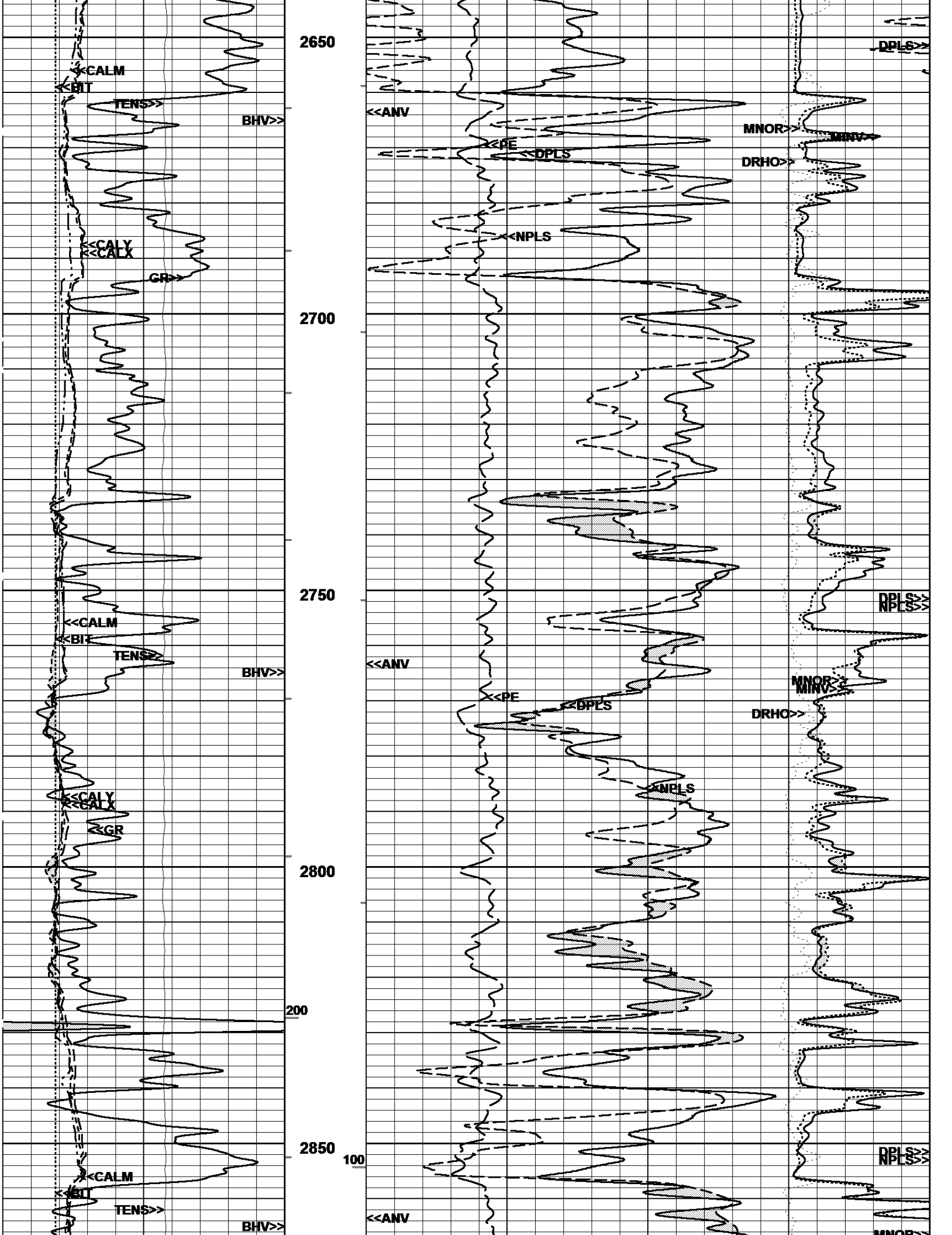


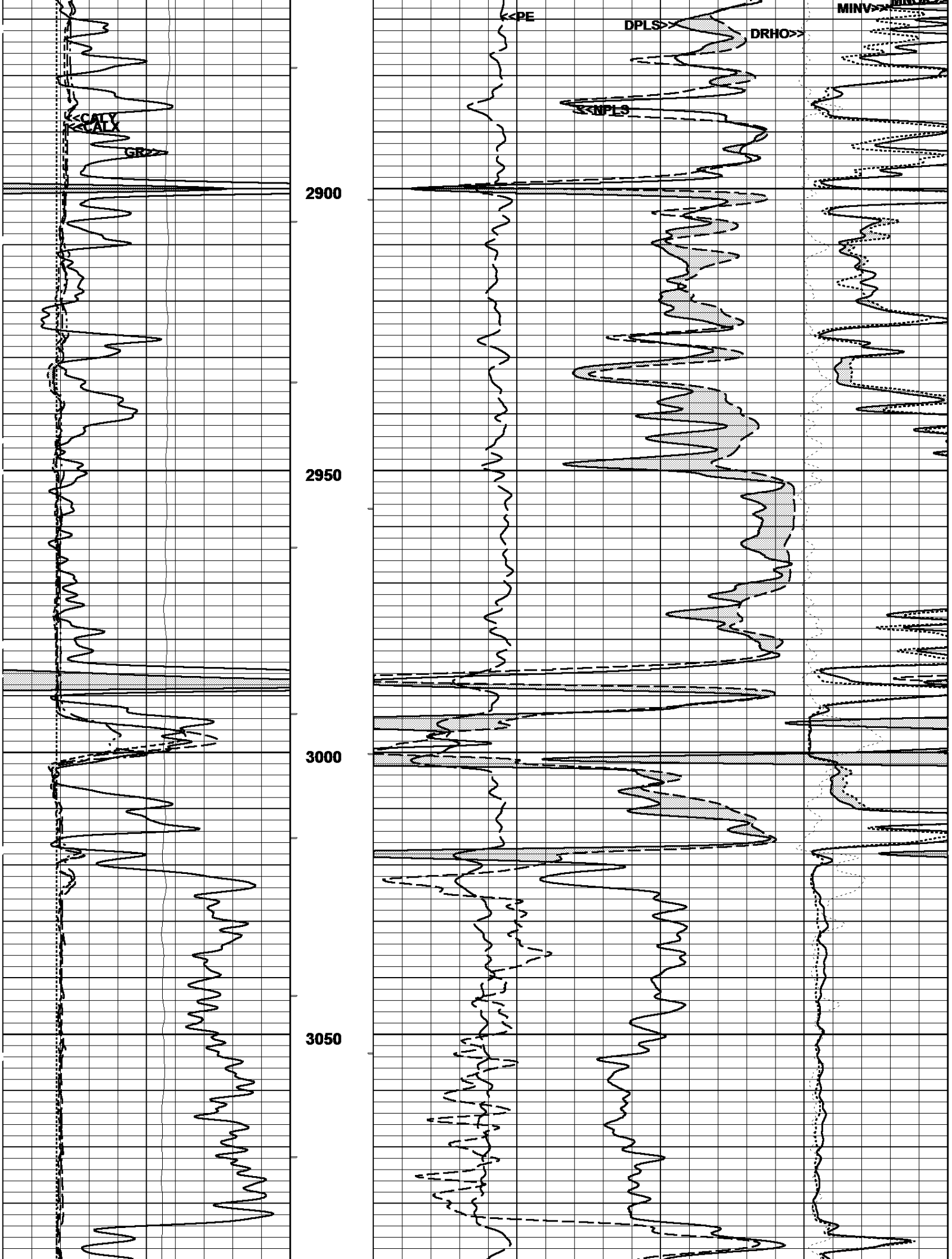
Tension (TENS)		
5000.	Lbs	0.
Bit Size (BIT)		
6.	Ref in	16.
04/02/2015		
02:53:17 ⇒ Start Time		MAIN PASS - RHOB (2"/100Ft)
		Log UP - (VER 11.19)
		Start Depth⇒ 3395.50 Feet

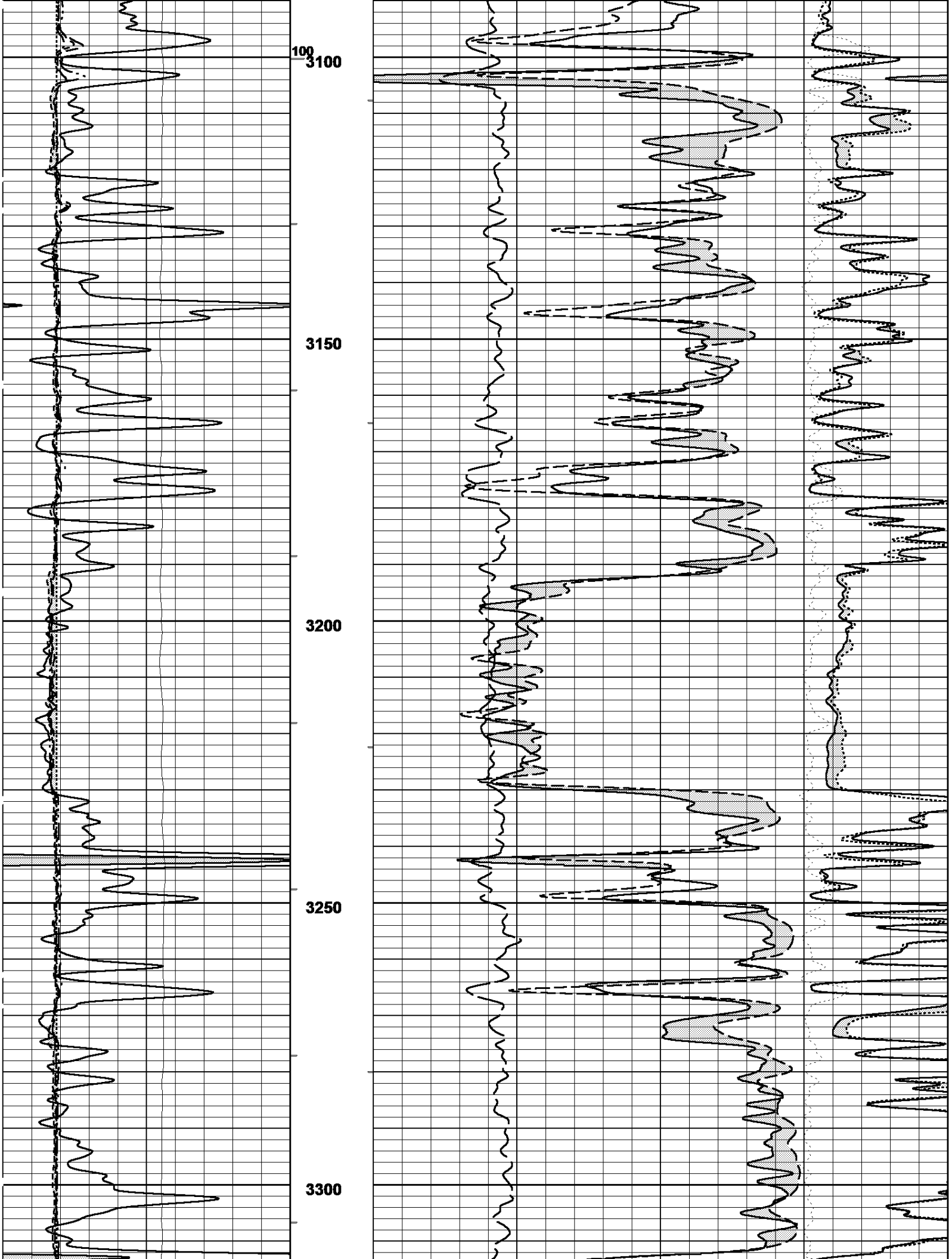
04/02/2015		
04:22:02 ⇒ End Time		ANHYDRITE MARKER (5"/100Ft)
		Log UP - (VER 11.19)
		End Depth⇒ 699.90 Feet

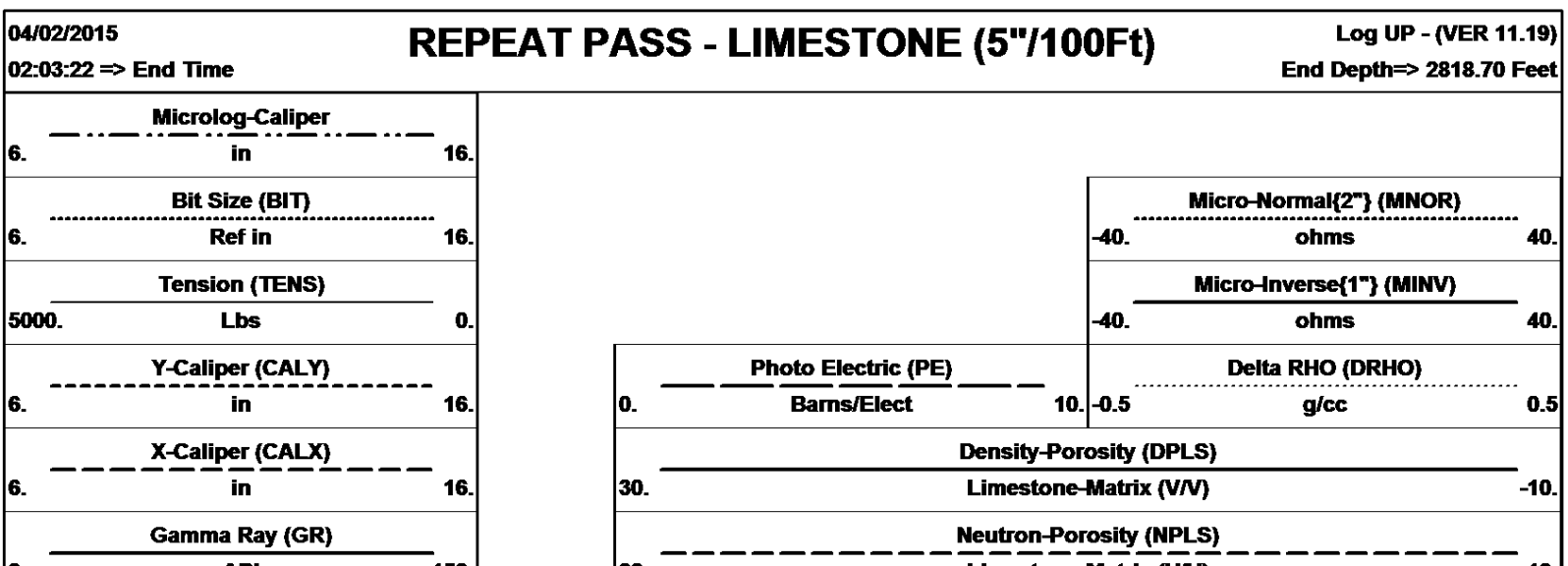
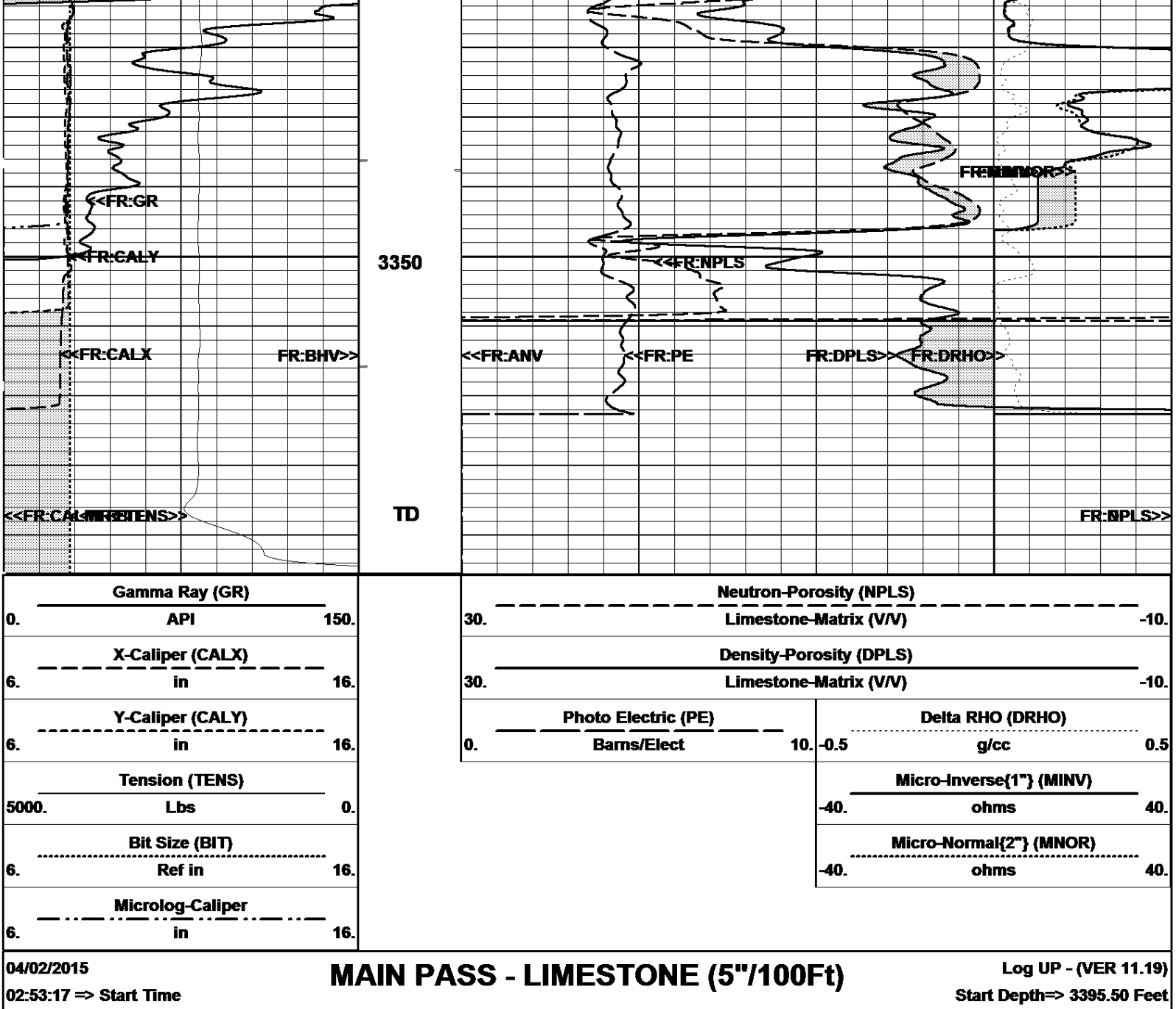


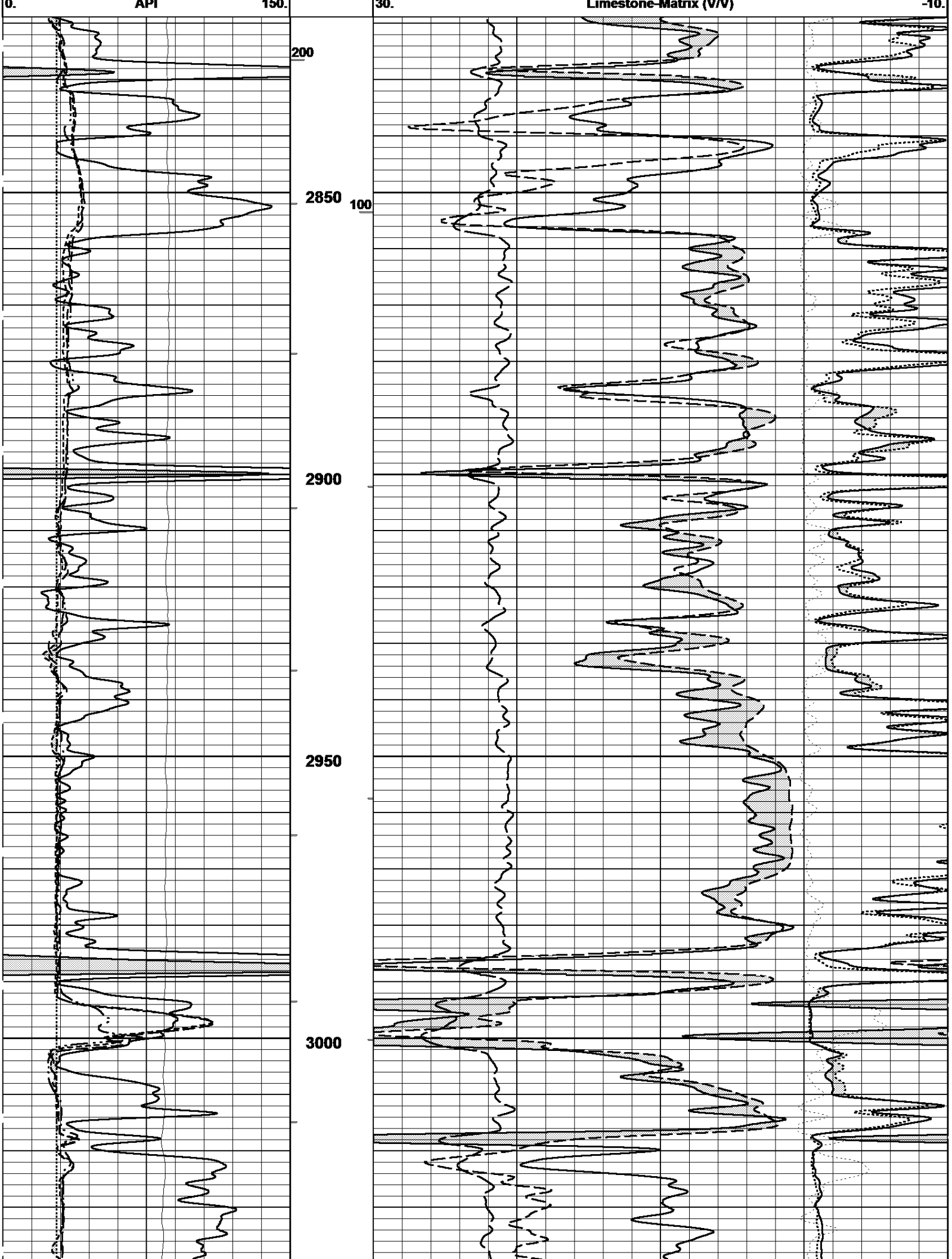


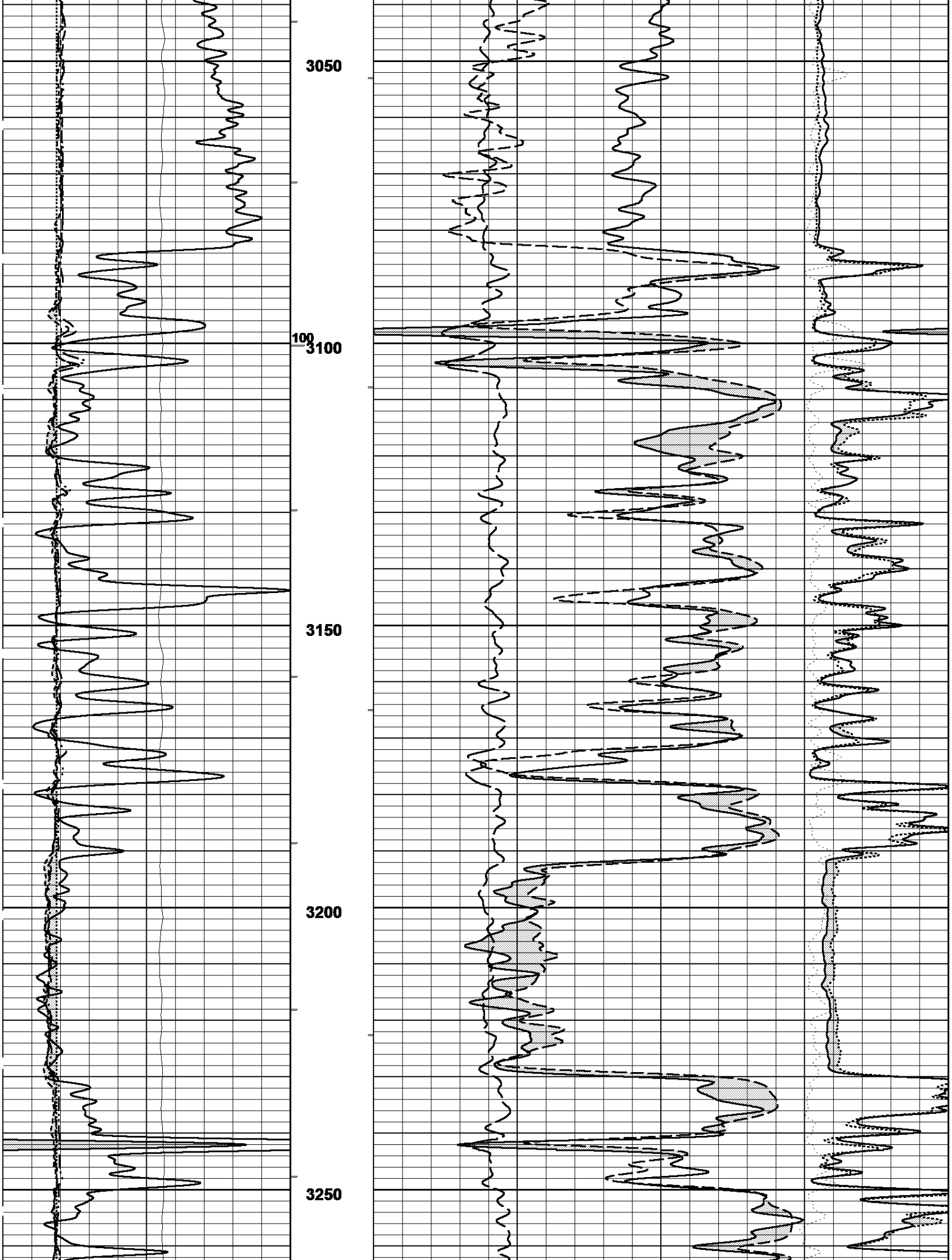


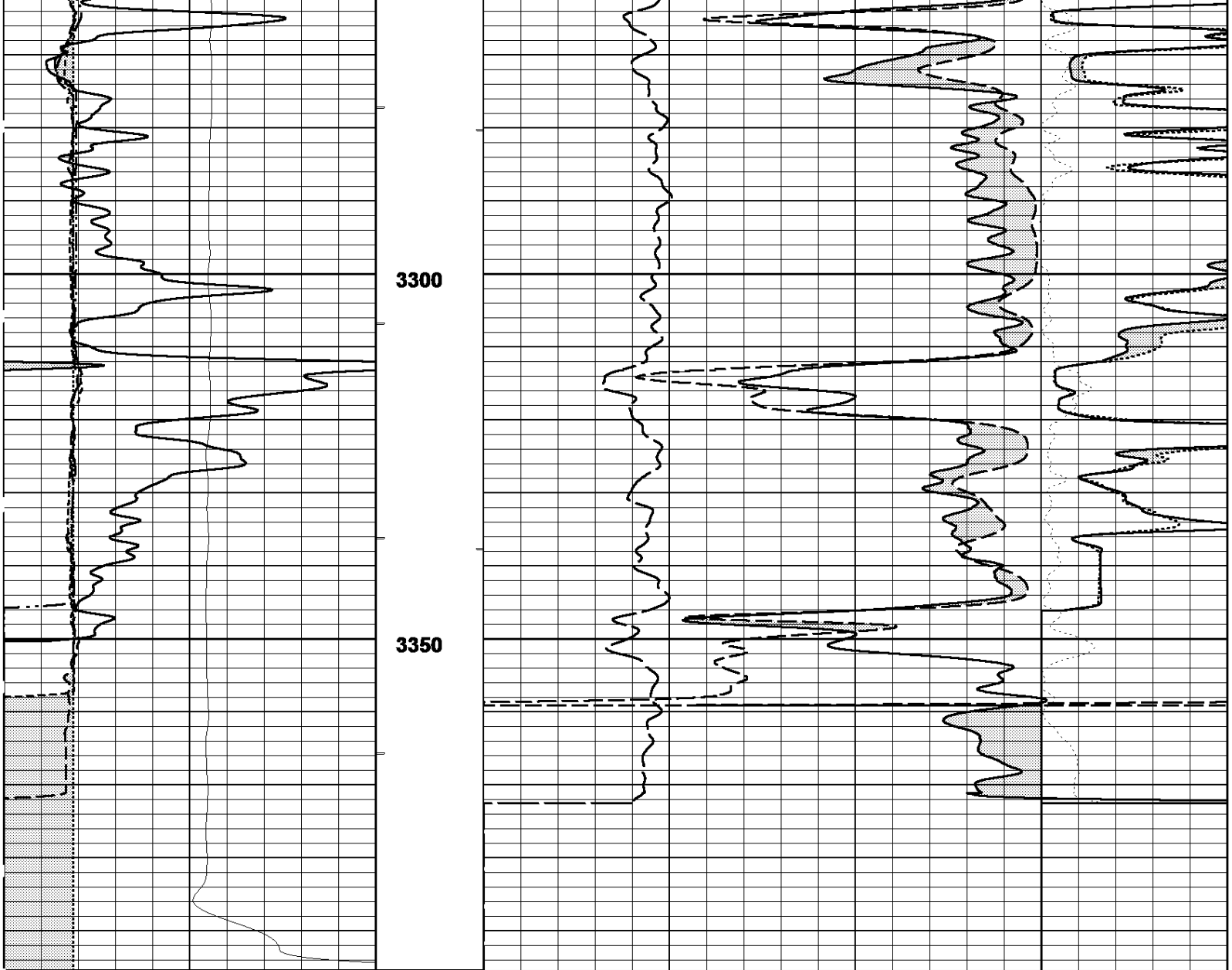








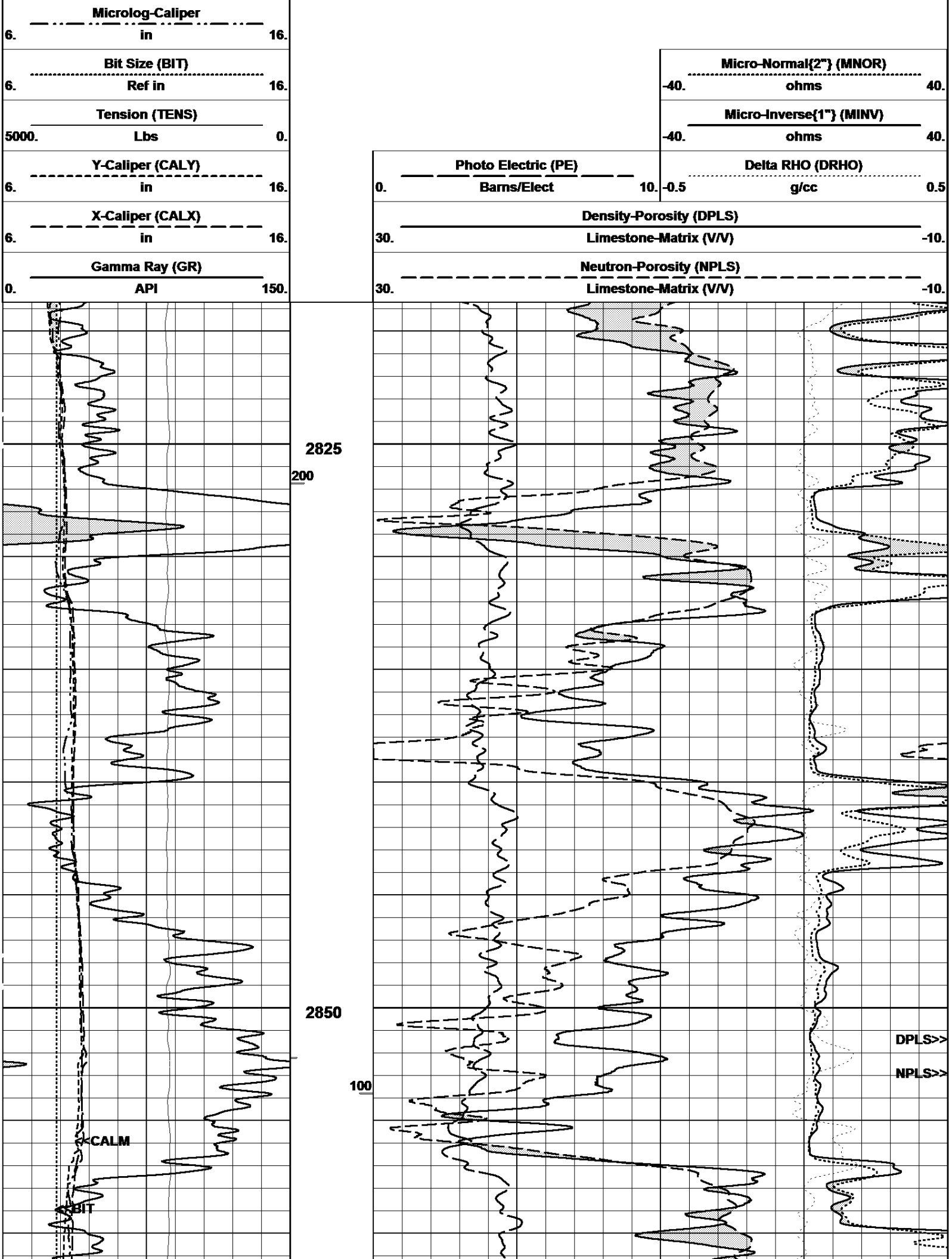


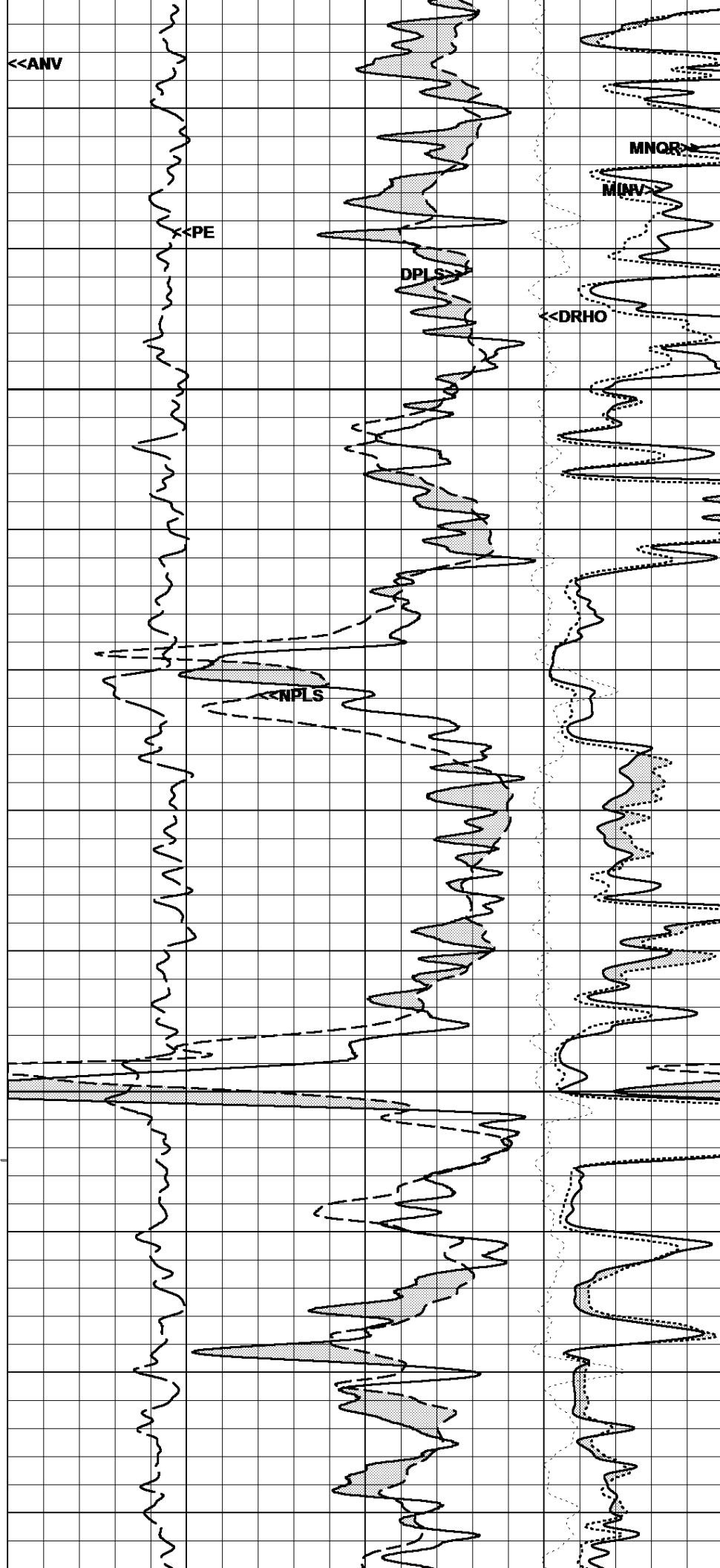
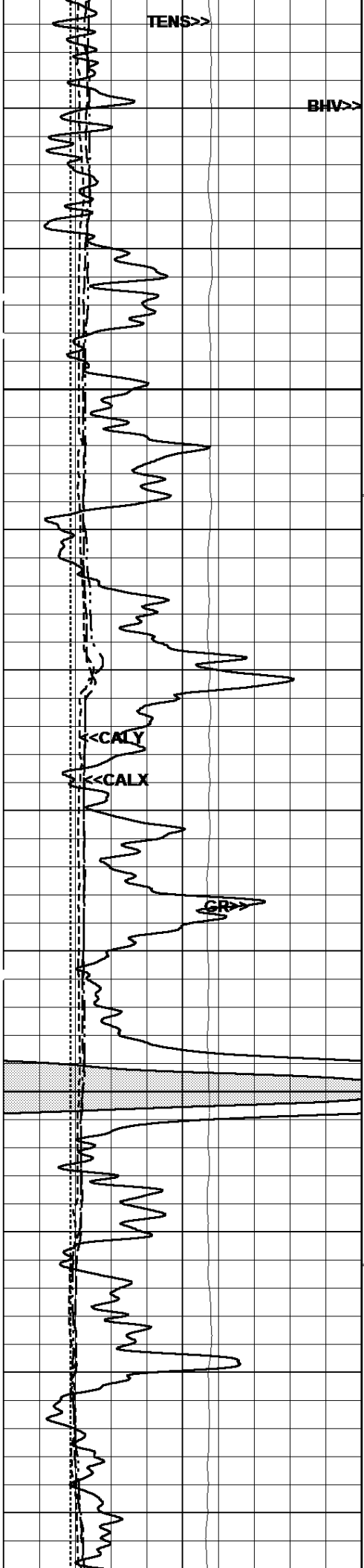


Gamma Ray (GR)		Neutron-Porosity (NPLS)	
0.	API 150.	30.	Limestone-Matrix (V/V) -10.
X-Caliper (CALX)		Density-Porosity (DPLS)	
6.	in 16.	30.	Limestone-Matrix (V/V) -10.
Y-Caliper (CALY)		Photo Electric (PE)	
6.	in 16.	0.	Barns/Elect 10.
Tension (TENS)		Delta RHO (DRHO)	
5000.	Lbs 0.	-0.5	g/cc 0.5
Bit Size (BIT)		Micro-Inverse{1"} (MINV)	
6.	Ref in 16.	-40.	ohms 40.
Microlog-Caliper		Micro-Normal{2"} (MNOR)	
6.	in 16.	-40.	ohms 40.

04/02/2015	REPEAT PASS - LIMESTONE (5"/100ft)	Log UP - (VER 11.19)
01:38:48 => Start Time		Start Depth=> 3395.40 Feet

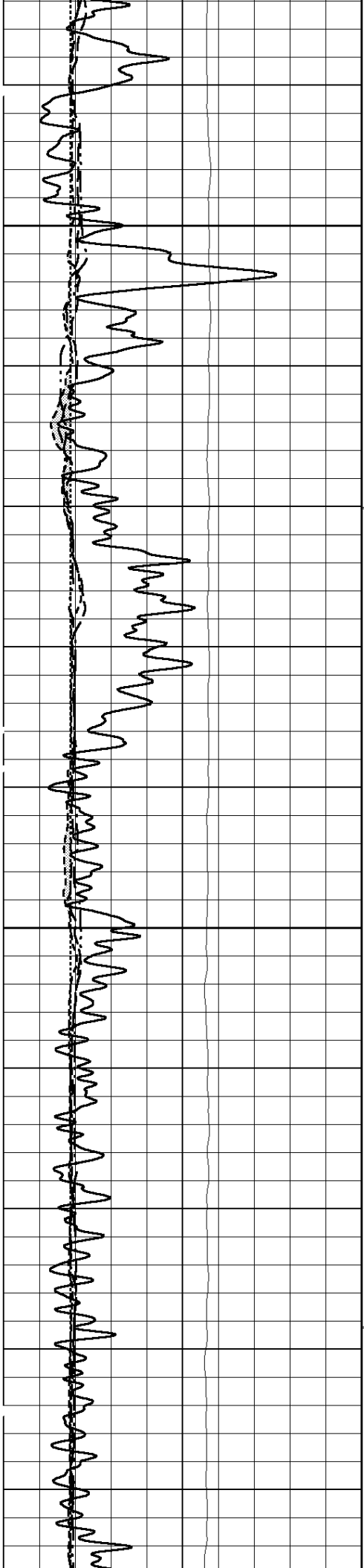
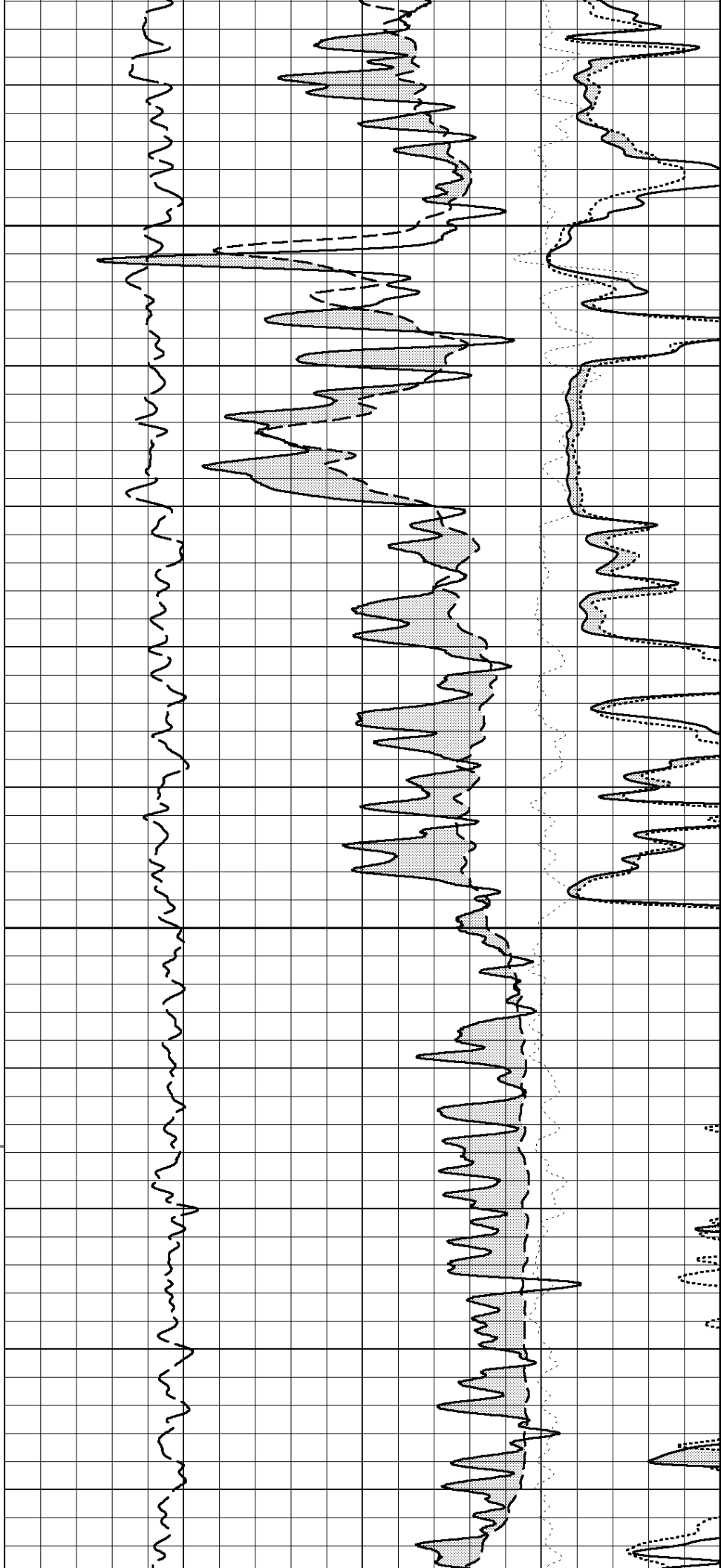
04/02/2015	HIGH DEFINITION PASS - LIMESTONE (20"/100ft)	Log UP - (VER 11.19)
02:03:22 => End Time		End Depth=> 2818.70 Feet

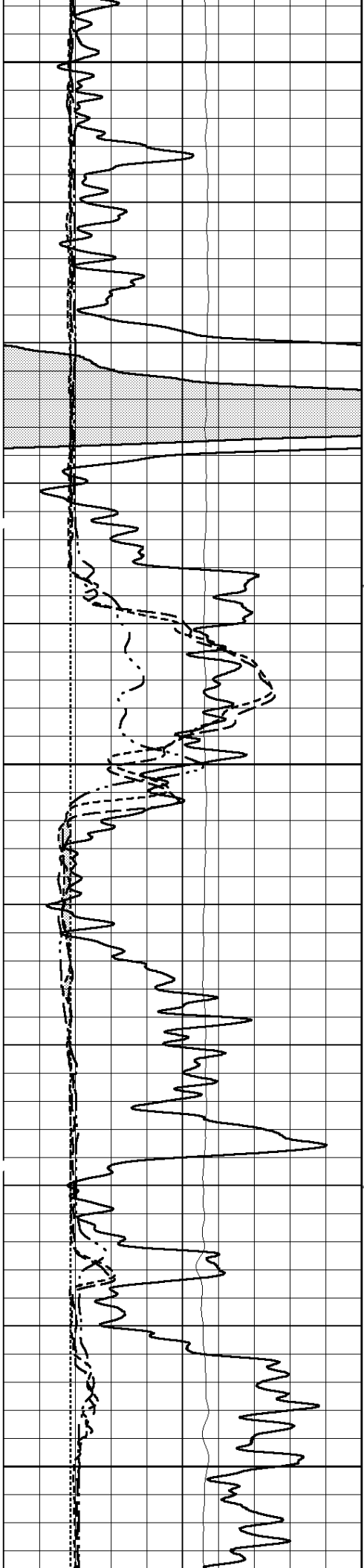




2925

2950

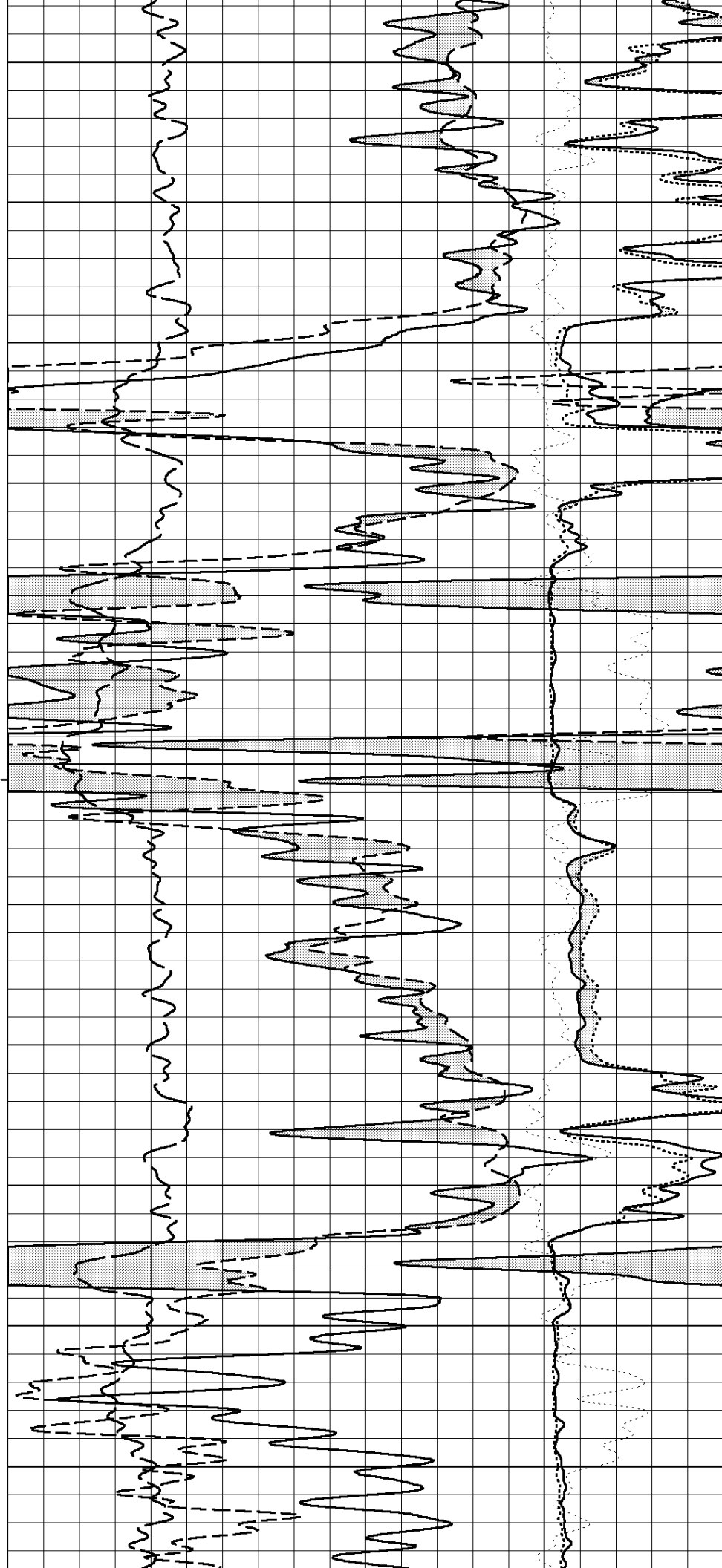


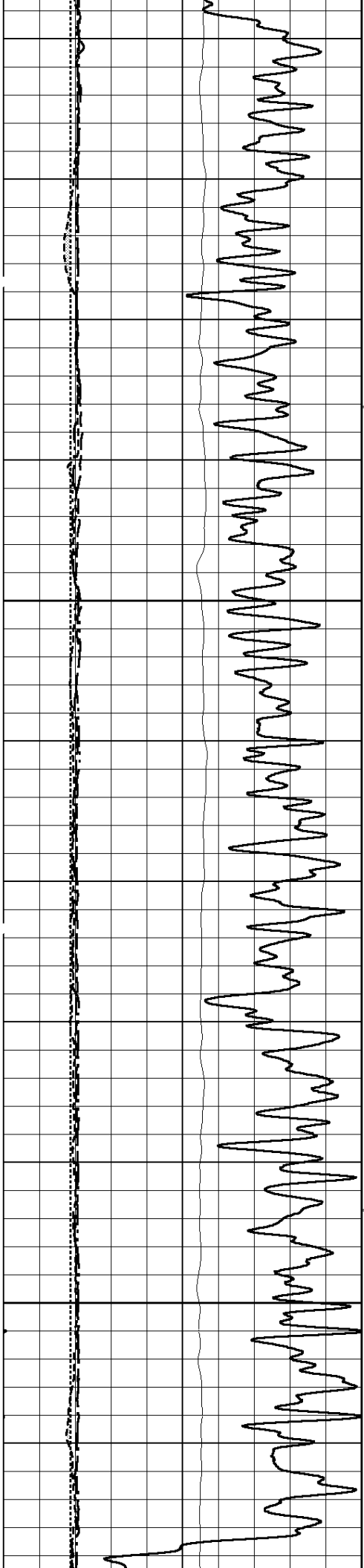


2975

3000

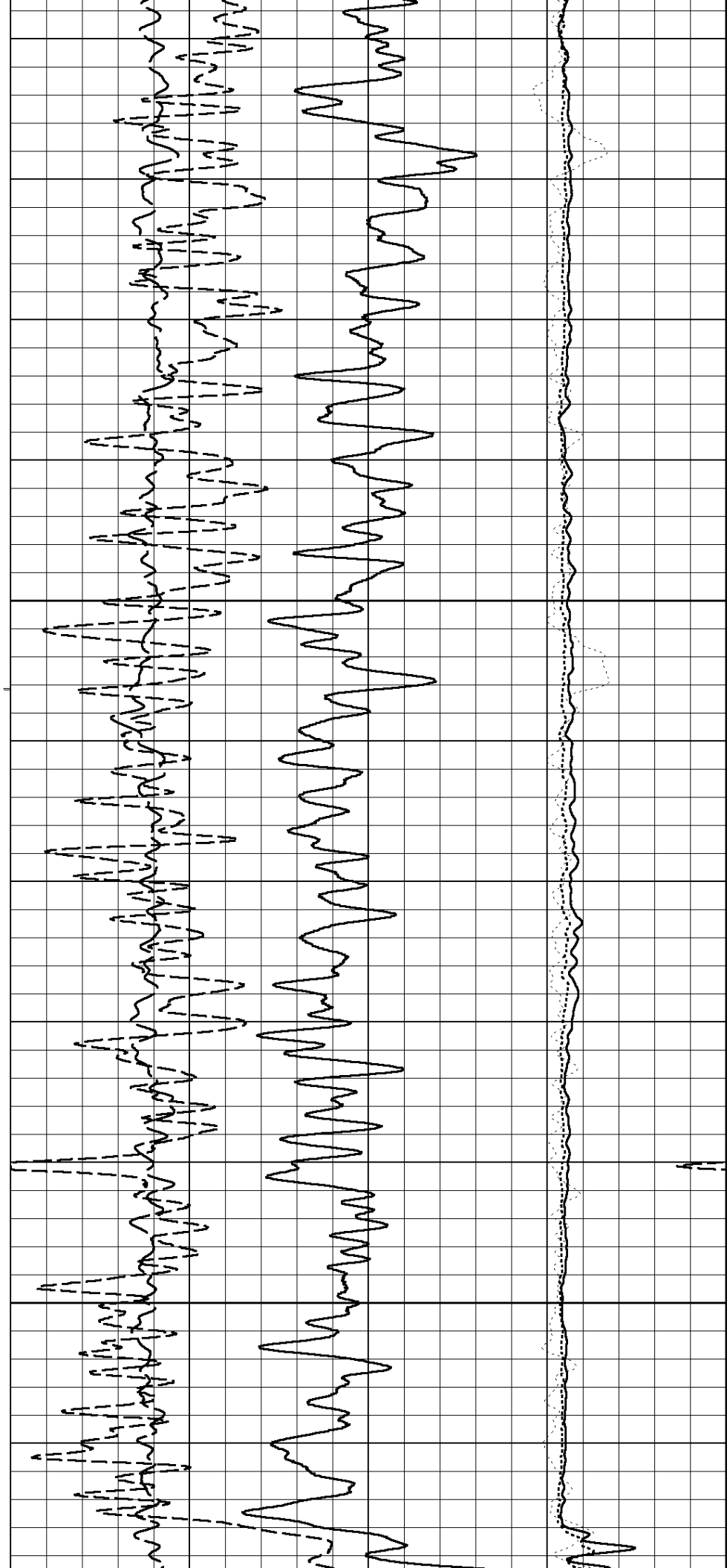
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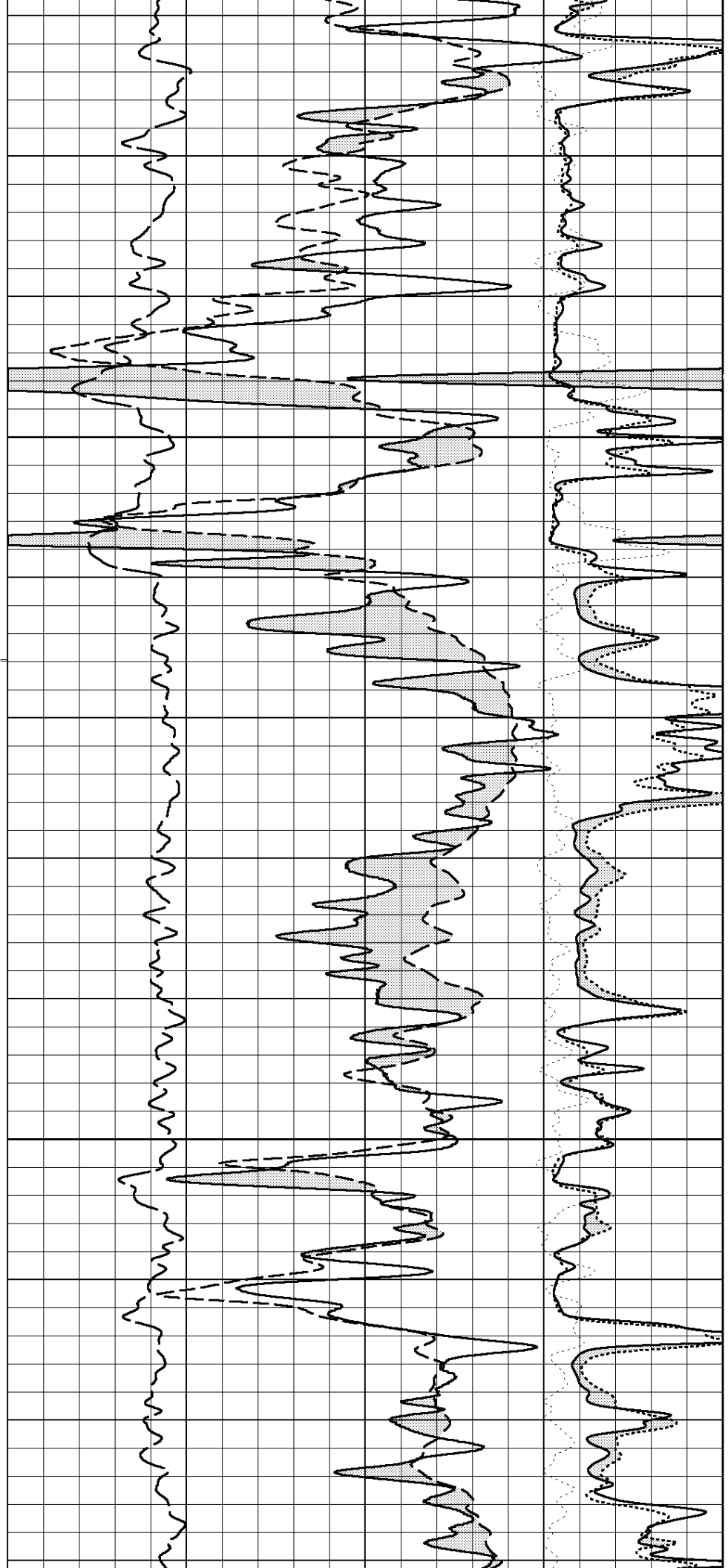
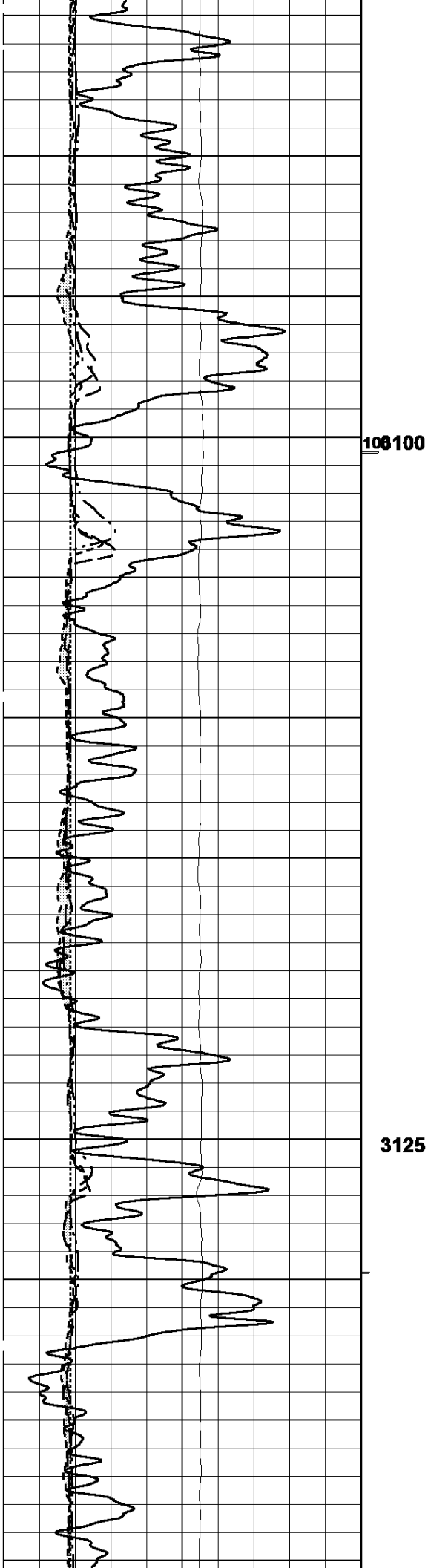


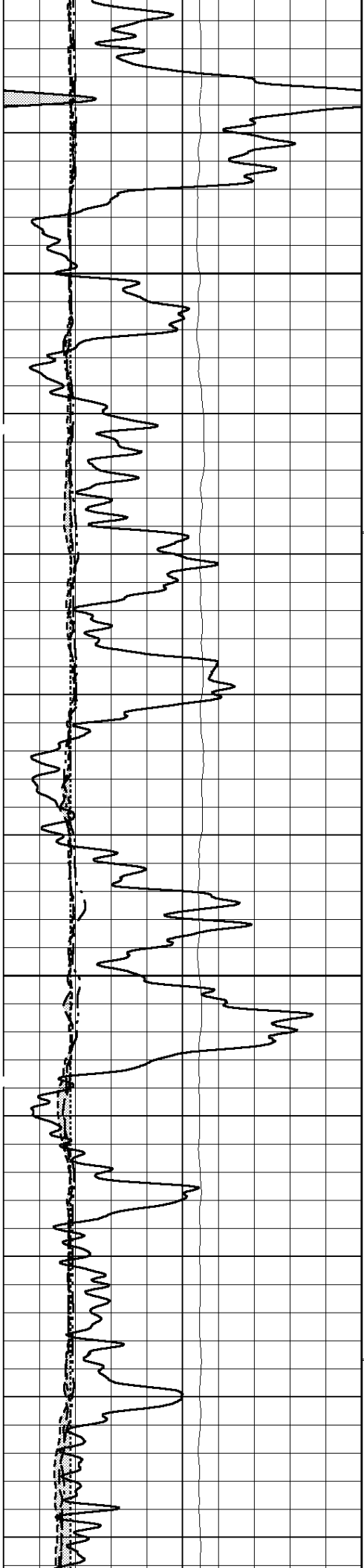


3050

3075

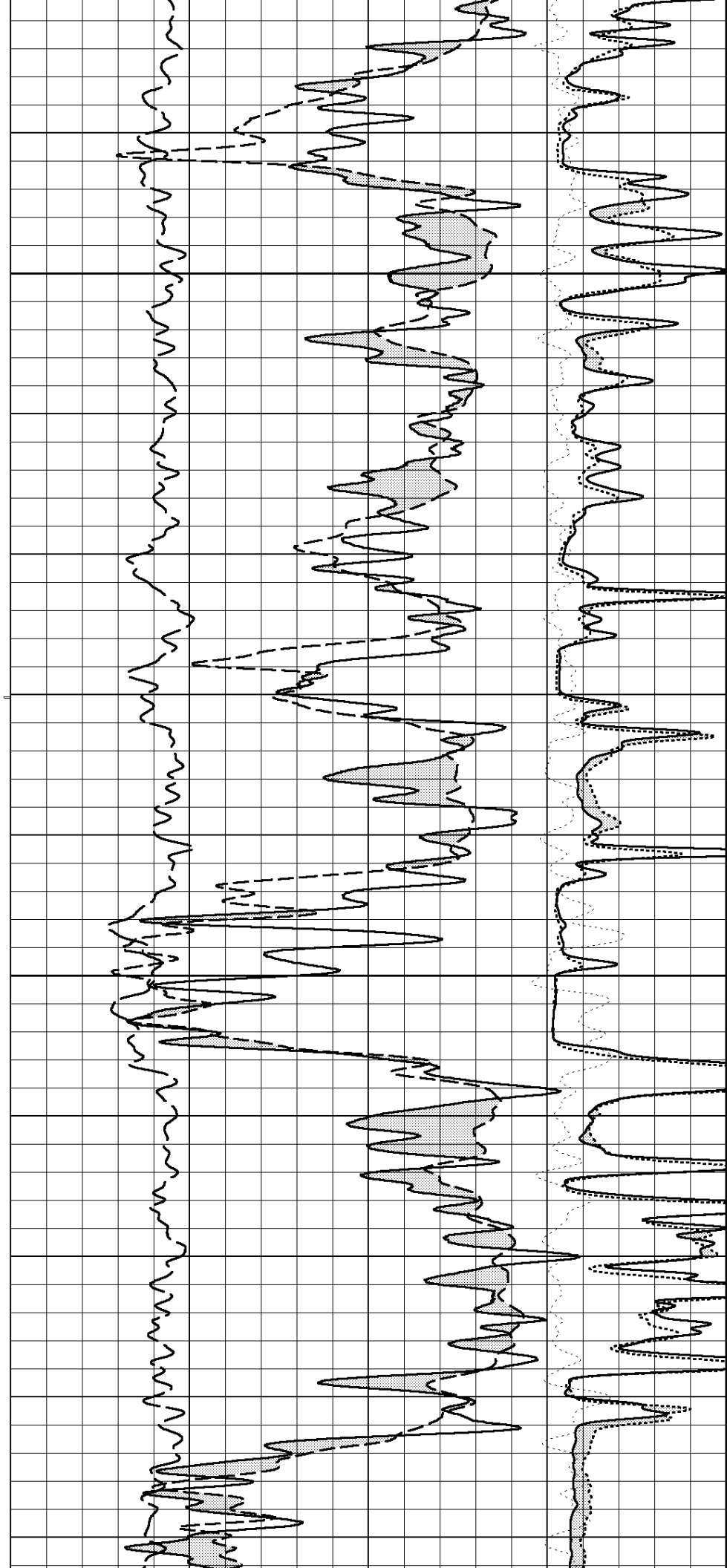


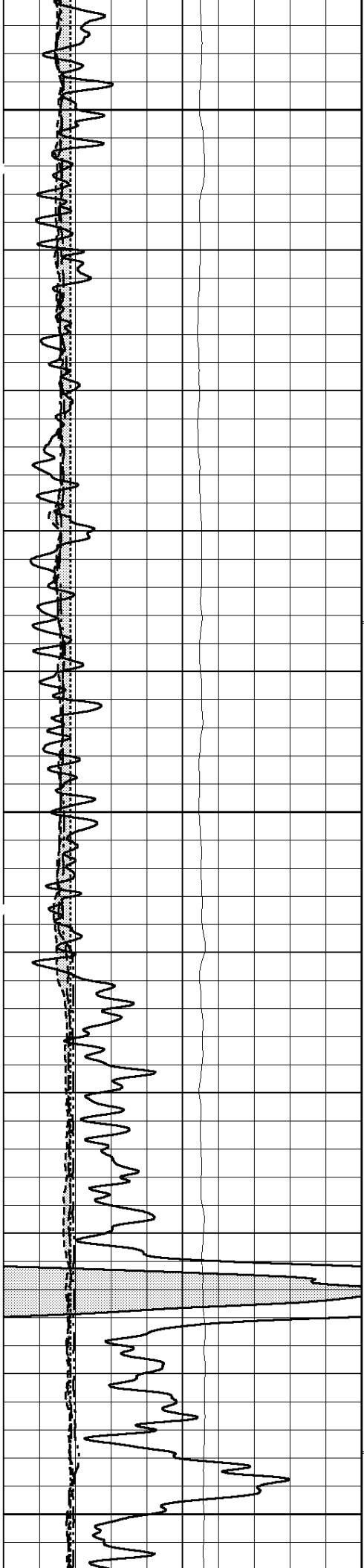




3150

3175

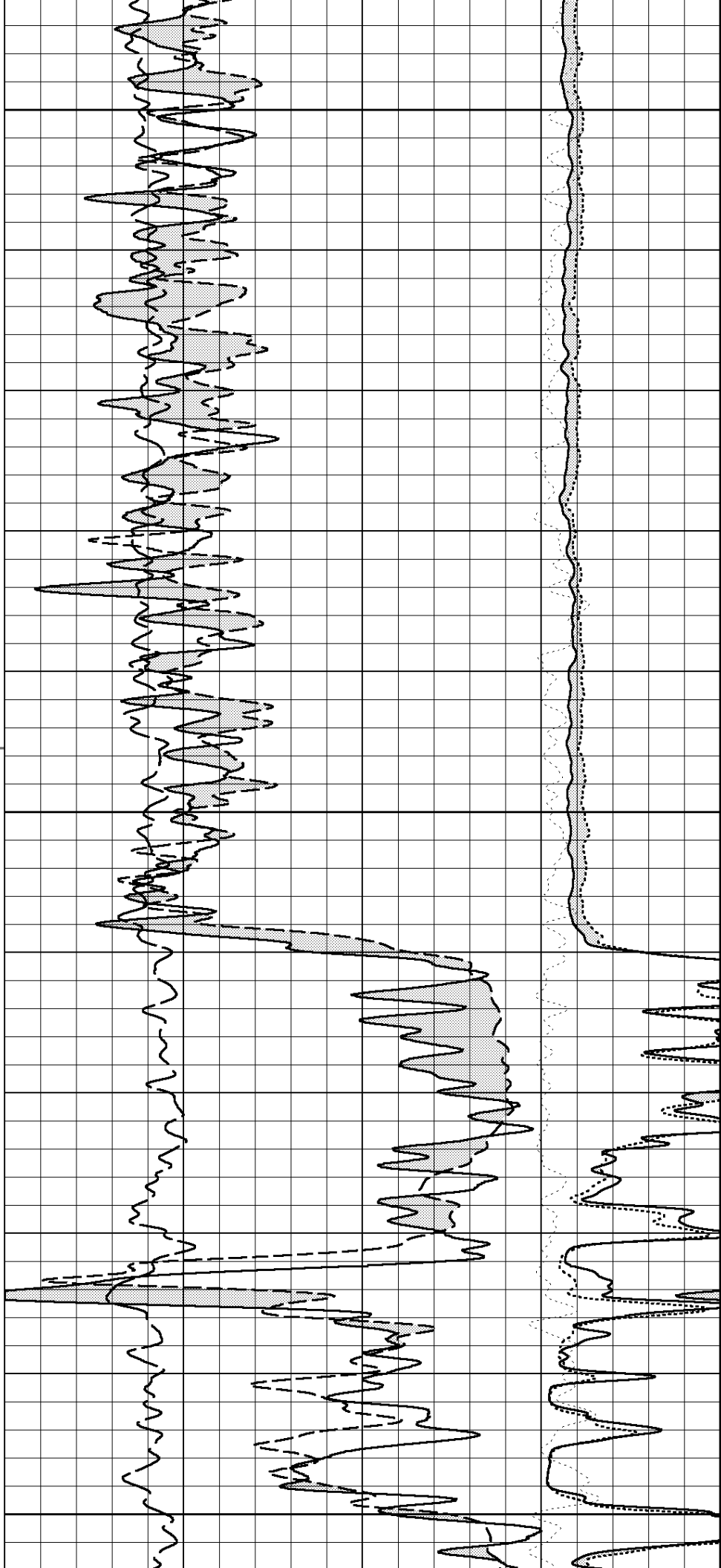


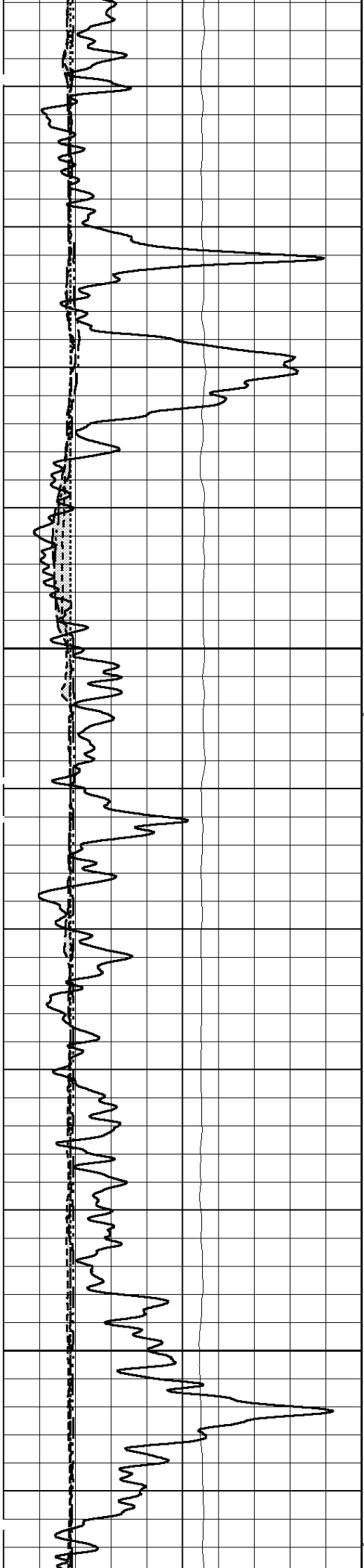


3200

3225

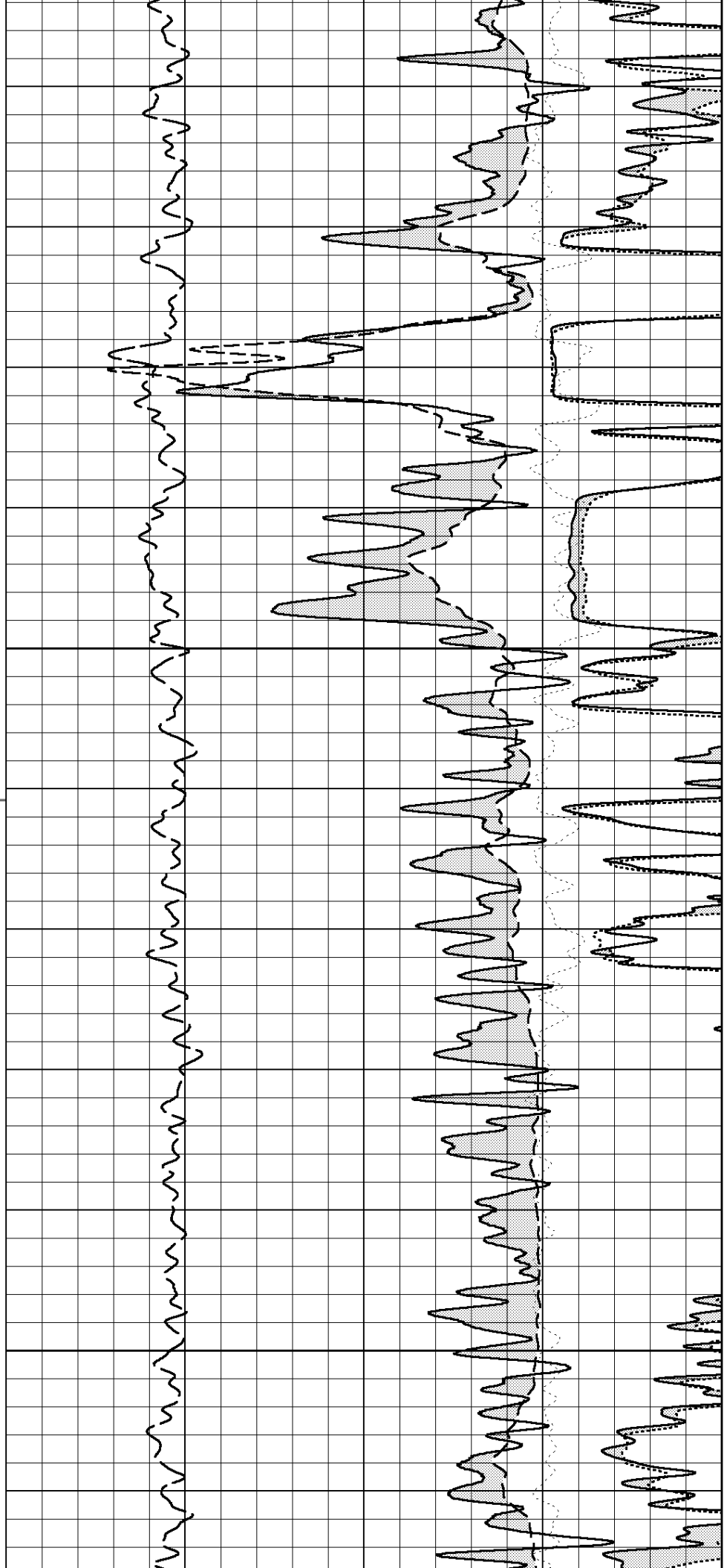
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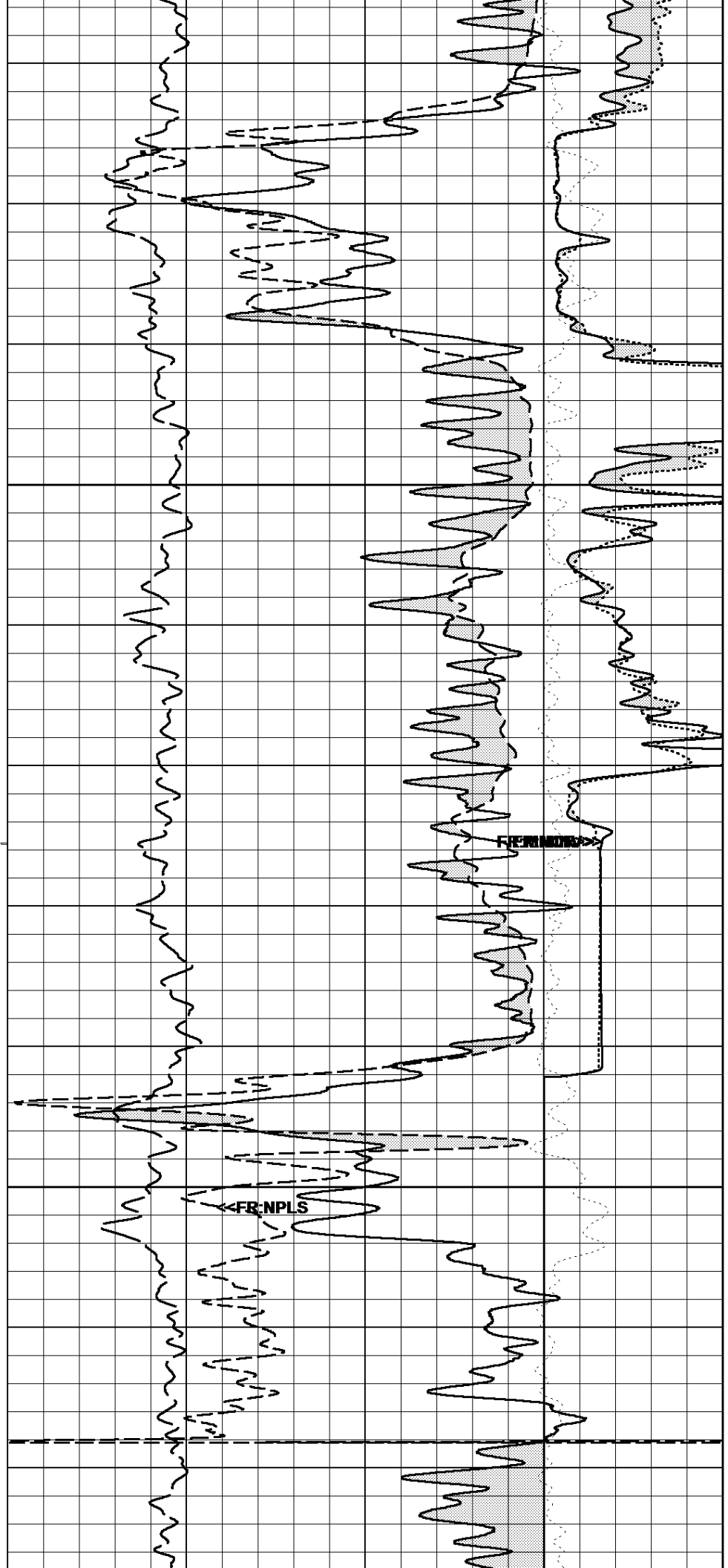
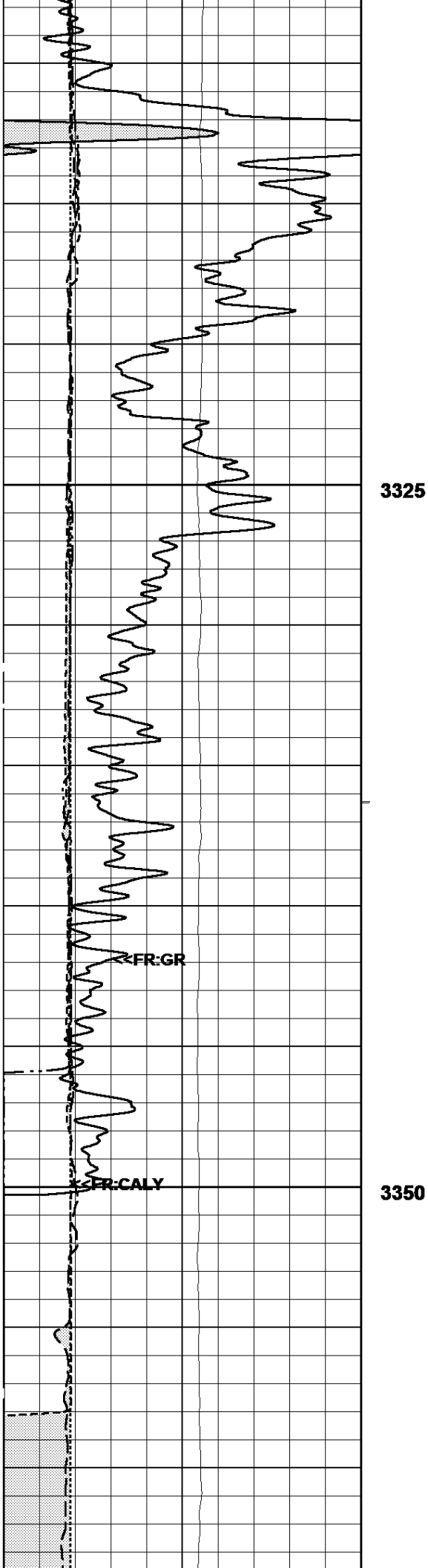


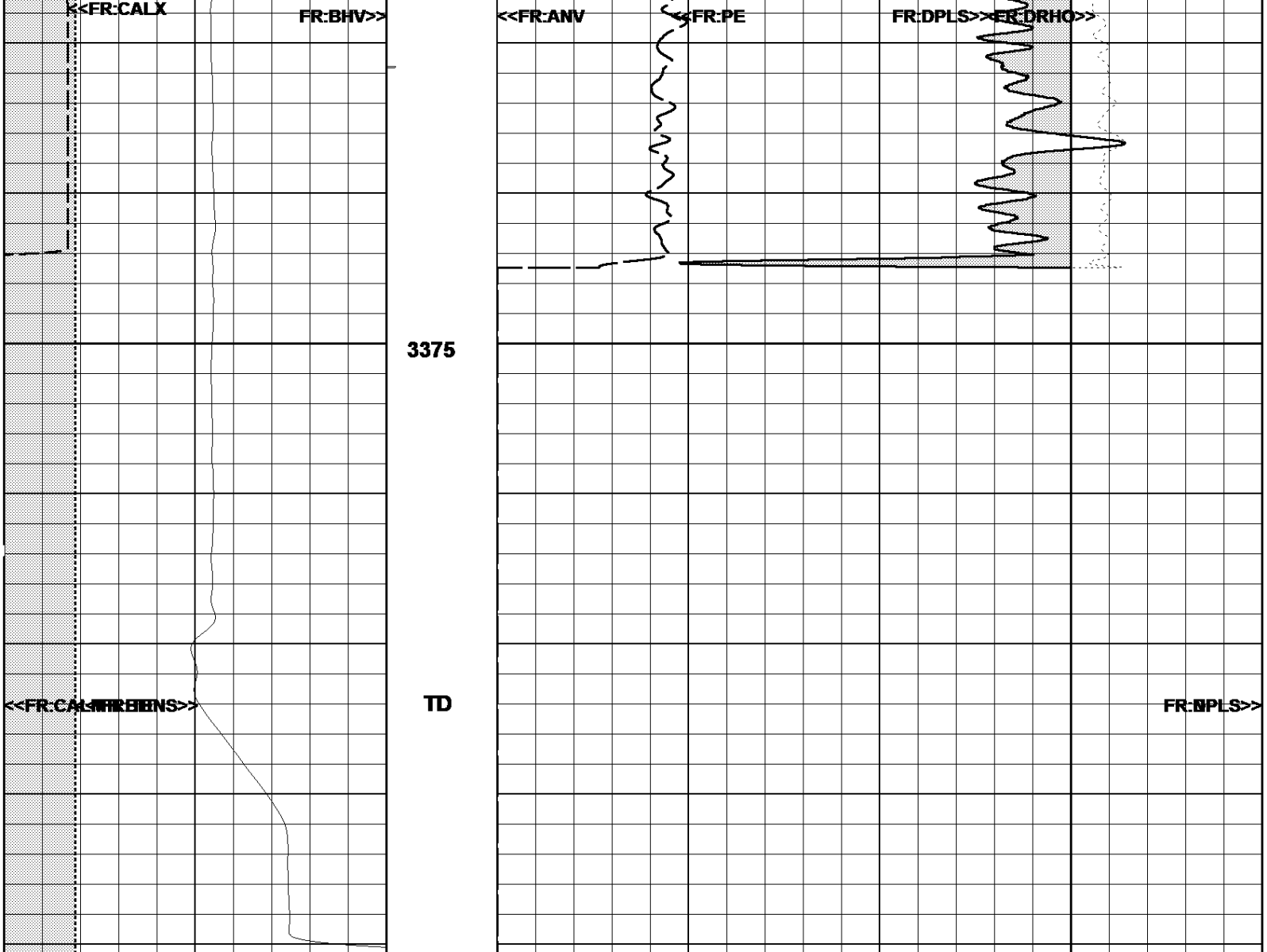


3275

3300







Gamma Ray (GR)		Neutron Porosity (NPLS)	
0.	API	150.	30.
X-Caliper (CALX)		Limestone-Matrix (V/V)	
6.	in	16.	-10.
Y-Caliper (CALY)		Density Porosity (DPLS)	
6.	in	16.	30.
Tension (TENS)		Limestone-Matrix (V/V)	
5000.	Lbs	0.	-10.
Bit Size (BIT)		Photo Electric (PE)	
6.	Ref in	16.	0.
Microlog-Caliper		Delta RHO (DRHO)	
6.	in	16.	10.
		Micro-Inverse{1"} (MINV)	
		-40.	
		ohms	
		40.	
		Micro-Normal{2"} (MNOR)	
		-40.	
		ohms	
		40.	

04/02/2015
01:38:48 => Start Time

HIGH DEFINITION PASS - LIMESTONE (20"/100ft)

Log UP - (VER 11.19)
Start Depth=> 3395.40 Feet

Litho-Density/PE Calibrations

TOOL TYPE
SERIAL NUM

LFDC/Pe
RL4101

SOURCE TYPE
SOURCE NUM

CESIUM 137

SOURCE STRGTH 2 CURIE

MASTER BLOCK CALIBRATIONS								
	W1(cps)	W2(cps)	W3(cps)	W4(cps)	SS	UNITS	CALIBRATION DATE	CALIBRATION TIME
ALUMINUM	4319.513	3739.580	1913.353	3.963	3312.6183	2.523(g/cc)	M/D/Y> 3/13/2015	H:M:S> 13:38:31
MAGNESIUM	12790.189	10883.634	4889.902	4.273	4853.9815	1.679(g/cc)		
BACKGROUND	1395.798	1234.616	858.899	3.788	4.2428			
SAND	12790.047	10889.672	4898.519	4.075		1.739(PE)		
IRON	3879.644	3400.750	1803.010	3.924		4.530(PE)		
FIELD VERIFIER(cps)	1614.960	1433.200	973.680	4.560	5.1200			
VER NUM LDP-4102								

WELL SITE CALIBRATIONS									
VER NUM	LDP-4102	W1(cps)	W2(cps)	W3(cps)	W4(cps)	SS		CALIBRATION DATE	CALIBRATION TIME

Compensated Neutron Calibrations			
TOOL TYPE	CNT-B	SOURCE TYPE	AM241BE
SERIAL NUM	RN2007	SOURCE NUM	

MASTER TANK CALIBRATIONS							
		NEAR(cps)	FAR(cps)	RATIO	K VALUE	CALIBRATION DATE	CALIBRATION TIME
LOW PHI	3.150			0.5943	0.9045	M/D/Y> 3/13/2015	H:M:S> 11:5:47
MED PHI	19.130			1.0181	0.9045		
HIGH PHI	31.300			1.2205	0.9046		
FIELD VERIFIER(cps)	294.161		282.345	1.0418			
VER NUM 7430							

WELL SITE CALIBRATIONS						
VER NUM	7430	NEAR(cps)	FAR(cps)	RATIO	CALIBRATION DATE	CALIBRATION TIME

GAMMA RAY CALIBRATION					
SERIAL NUM	RG3007				
BLANKET NUM	1A				
MASTER CALIBRATIONS					
	BackGrnd	CalVal: 175.000 API	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	29.340 - raw	207.814 - raw	0.981 - gain 0.000 - off	M/D/Y> 3/12/2015	H:M:S> 12:17:54

X CALIPER	
SERIAL NUM	RL4101

MASTER CALIBRATIONS					
	ZeroVal: 6.000 In	CalVal: 10.000 In	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	2693.410 - raw	4852.950 - raw	0.002 - gain 1.011 - off	M/D/Y> 3/13/2015	H:M:S> 13:58:58

Y CALIPER CALIBRATIONS					
SERIAL NUM		RN2007			
MASTER CALIBRATIONS					
	ZeroVal: 6.000 in	CalVal: 10.000 in	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	738.301 - raw	1455.113 - raw	0.006 - gain 1.880 - off	M/D/Y> 3/13/2015	H:M:S> 10:16:22

MICRO NORMAL CALIBRATIONS					
SERIAL NUM		RM8003			
MASTER CALIBRATIONS					
	ZeroVal: 0.020 ohmm	CalVal: 10.000 ohmm	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	37.619 - raw	394.686 - raw	0.028 - gain -1.031 - off	M/D/Y> 3/17/2015	H:M:S> 11:57:31

MICRO INVERSE CALIBRATIONS					
SERIAL NUM		RM8003			
MASTER CALIBRATIONS					
	ZeroVal: 0.020 ohmm	CalVal: 10.000 ohmm	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	17.550 - raw	274.753 - raw	0.039 - gain -0.661 - off	M/D/Y> 3/17/2015	H:M:S> 11:54:0

MICRO CALIPER CALIBRATIONS					
SERIAL NUM	RM8003				
MASTER CALIBRATIONS					
	ZeroVal: 6.000 In	CalVal: 10.000 In	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	2470.188 - raw	4533.491 - raw	0.002 - gain 1.211 - off	M/D/Y> 3/17/2015	H:M:S> 12:3:53

Company	CMX INCORPORATED
Well	CLAFLIN #1-34
Field	KRAFT-PRUSA
County	BARTON
State	KANSAS

RECON

COMPENSATED NEUTRON
LITHOLOGY DENSITY
GAMMA RAY X-Y CALIPER
MICROLOG

FIELD PRINT***FIELD PRINT***