Company	CMX INCORPORATED
Well	BUSHTON #1-20
Field	STOLTENBERG
County	ELLSWORTH
State	KANSAS

RECON

COMPENSATED NEUTRON
LITHOLOGY DENSITY
GAMMA RAY X-Y CALIPER
MICROLOG

SEC	TWP	RGE	
20	17S	09W	

OTHER SERVICES:
DIL

Location. 925' FSL & 710' FWL — SW/NE/SW/SW
SURF. SAME — API#. 015-053-21323-00-00

Permanent Datum . Ground Level Elev 1764
Log Measured From . Kelly Bushing
Drilling Measured From Kelly Bushing

ELEVATIONS K.B. 1777
G.L. 1764
D.F. 1775

Date		19-MAY-2015						
Run No.		ONE						
TD Driller		3320	ft.				ft.	
TD RECON		3317	ft.				ft.	
Bot Logged Interval		3316	ft.				ft.	
Top Logged Interval		340	ft.				ft.	
Casing Depth Driller		8 5/8	in.	@ 350			in.	@
Casing Depth RECON		8 5/8	in.	@ 350			in.	@
Bit Size		7 7/8	in.				in.	
Drilling Fluid Type		WBM						
Density	Viscosity	9.2		56				
Fluid Loss	PH	9.0		12.0				
Source Of Sample		Flowline						
RM @ Measured Temp		1.04	Ohmm	@ 75			Ohmm	@
RMF @ Measured Temp		0.78	Ohmm	@ 75			Ohmm	@
RMC @ Measured Temp		1.29	Ohmm	@ 75			Ohmm	@
RM @ MRT		0.74	Ohmm	@ 107.6			Ohmm	@
Max Recorded Temp		107.6	DegF				DegF	
Time Drilling Stopped		19-MAY-2015		11:43				
Time Circulation Stopped		19-MAY-2015		13:10				
Time Logger On Bottom		19-MAY-2015		17:15				
Unit Num	Location	S406		OKLAHOMA CITY, OK				
Recorded By		K.HELDERMON						
Witnessed By		K.LEBLANC						

RIG INFORMATION

Drill Contr/Rig# DUKE DRILLING #7

GENERAL REMARKS SECTION

FIRST RUN IN THE HOLE
CNL AND LDT LOGGED IN A LIMESTONE MATRIX
TOP MARK - 298, BOTTOM MARK - 3301.5
CNL/LDT LOGGED MATRIX: 2.71 g/cc.

CHLORIDES: 5000
LCM: 0

AHV CALCULATED ON 5.5" PROD. CASING

CREW: J.THOMAS

THANK YOU FOR USING RECON PETROTECHNOLOGIES LTD.

CEMENT VOLUME CALCULATIONS SUMMARY

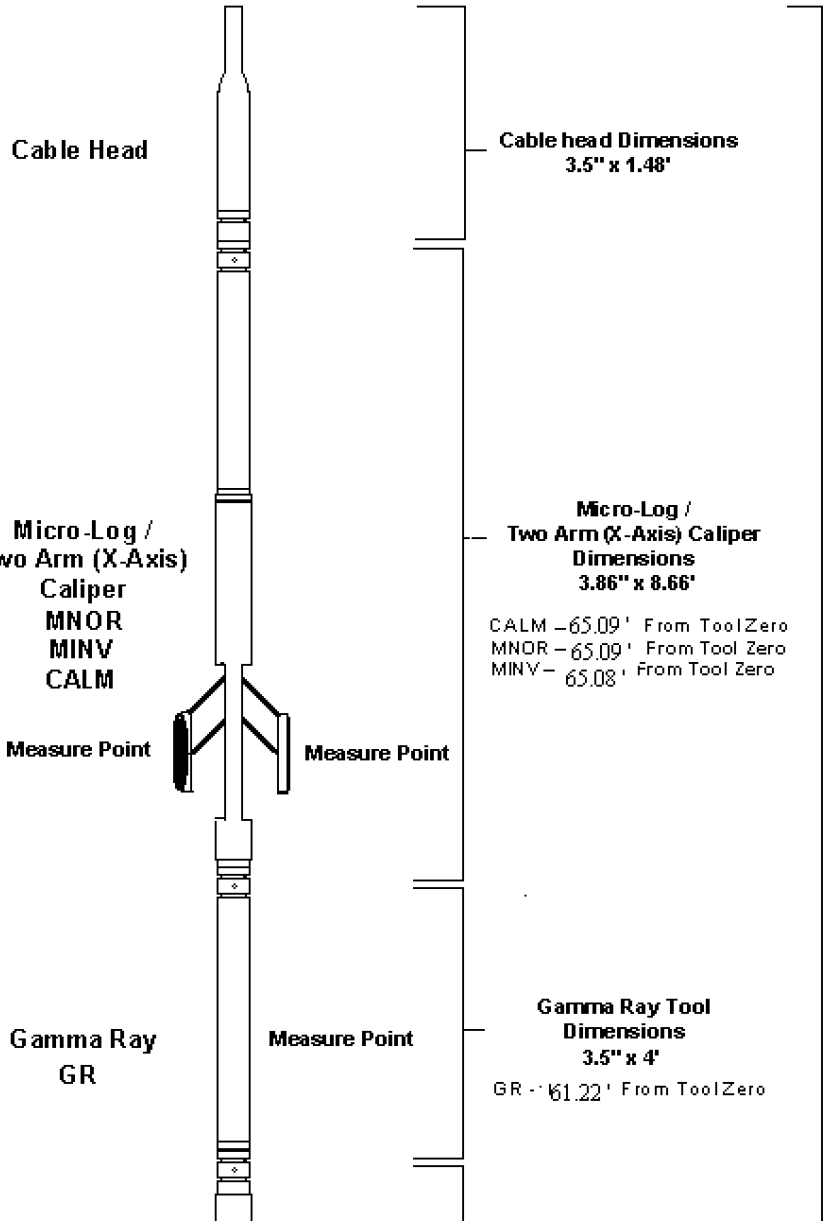
Tool Type	**LDT-CNT**		
Tool Serial #	**RN2007 / RL4101**	**Caliper Type**	**X-Y CALIPERS**

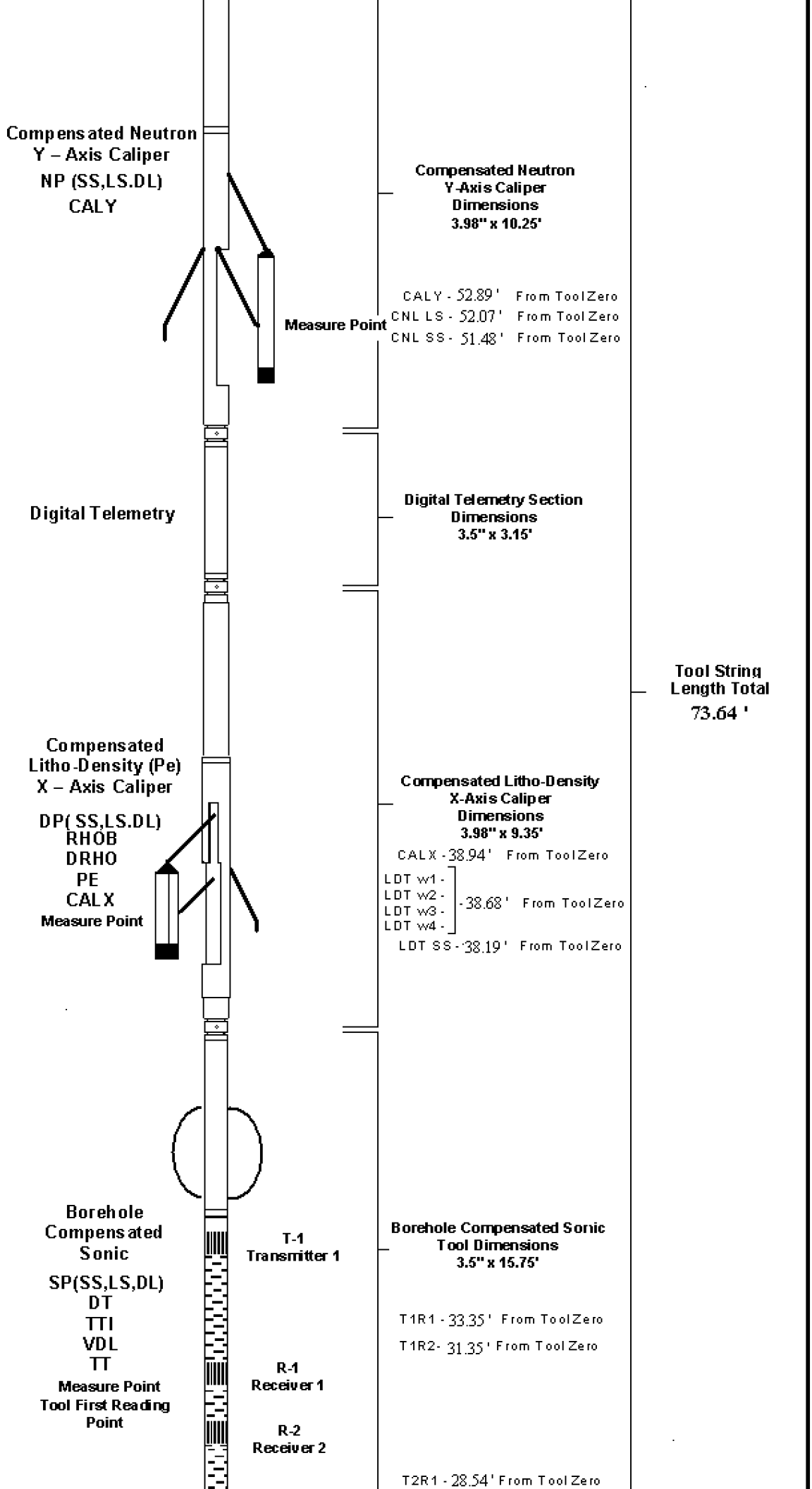
	Borehole Total	Annular Volume with Casing	From Depth (MKb)	To Depth (MKb)
VOLUMES	**1431 Cubic Feet**	**938 Cubic Feet**	**340**	**3317**

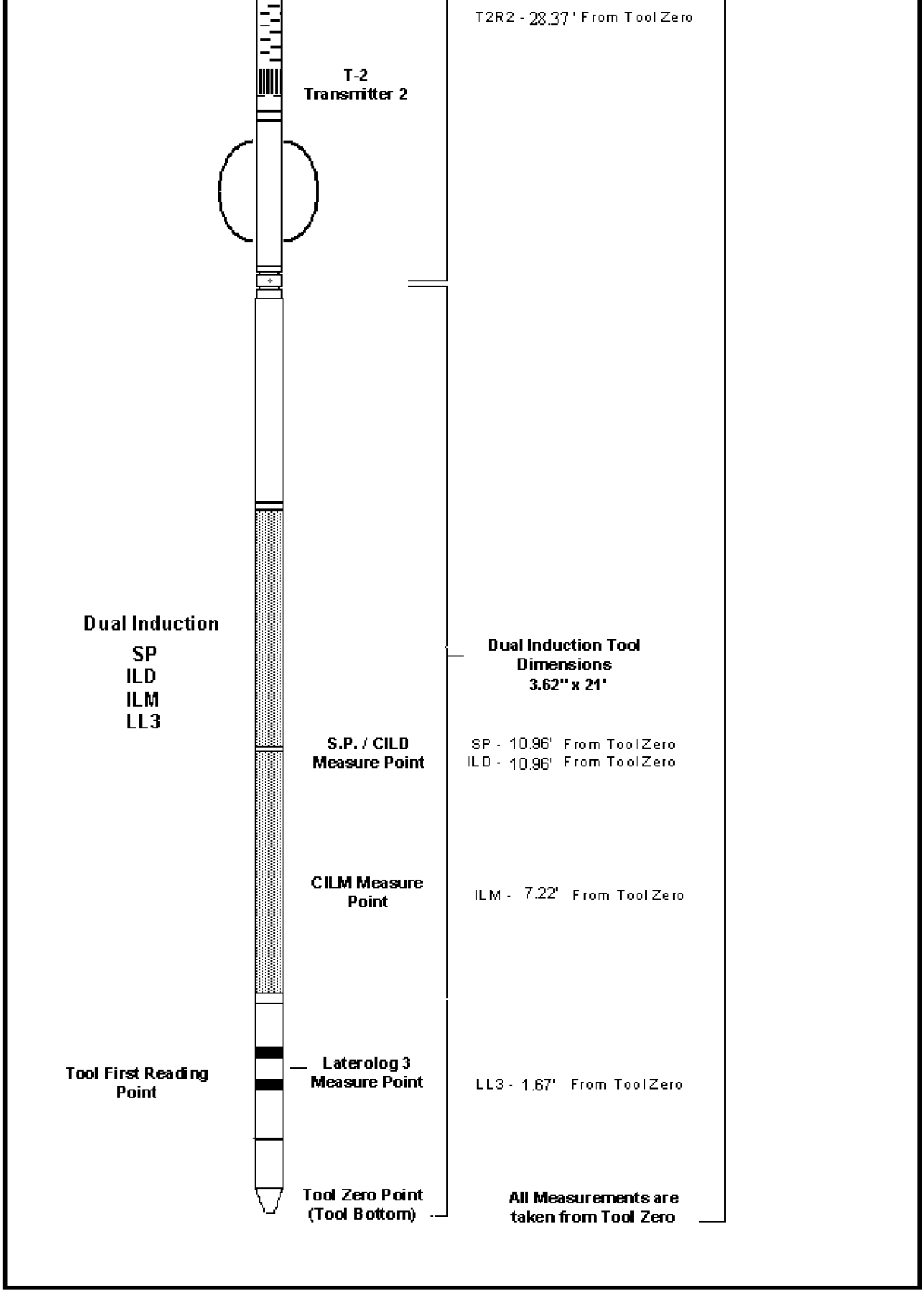
CASING INFORMATION

	SIZE (in)	GRADE	WEIGHT (lbs/ft)	ID (in)	TOP DEPTH	BOT DEPTH
SURFACE CASING	**8 5/8**	**J-55**	**24**	**8.098**	**Surface**	**350**
INTERMEDIATE CASING	**N/A**	**N/A**	**N/A**	**N/A**	**Surface**	**N/A**
PRODUCION CASING	**5 1/2**	**N/A**	**N/A**	**N/A**	**Surface**	**N/A**

DUAL INDUCTION – SP / BHC SONIC /
GAMMA RAY / LITHO-DENSITY / X CALIPER
COMPENSATED NEUTRON / Y-CALIPER
MICRO - LOG / M-CALIPER




Compensated Neutron
Y – Axis Caliper
NP (SS,LS.DL)
CALY
Measure Point
Compensated Neutron
Y-Axis Caliper
Dimensions
3.98" x 10.25'
CALY - 52.89 ' From Tool Zero
CNL LS - 52.07 ' From Tool Zero
CNL SS - 51.48 ' From Tool Zero
Digital Telemetry
Digital Telemetry Section
Dimensions
3.5" x 3.15'
Tool String
Length Total
73.64 '
Compensated
Litho-Density (Pe)
X – Axis Caliper
DP(SS,LS.DL)
RHOB
DRHO
PE
CALX
Measure Point
Compensated Litho-Density
X-Axis Caliper
Dimensions
3.98" x 9.35'
CALX - 38.94 ' From Tool Zero
LDT w1 -
LDT w2 -
LDT w3 -
LDT w4 -
- 38.68 ' From Tool Zero
LDT SS - 38.19 ' From Tool Zero
Borehole
Compensated
Sonic
SP(SS,LS,DL)
DT
TTI
VDL
TT
Measure Point
Tool First Reading
Point
T-1
Transmitter 1
R-1
Receiver 1
R-2
Receiver 2
Borehole Compensated Sonic
Tool Dimensions
3.5" x 15.75'
T1R1 - 33.35 ' From Tool Zero
T1R2 - 31.35 ' From Tool Zero
T2R1 - 28.54 ' From Tool Zero



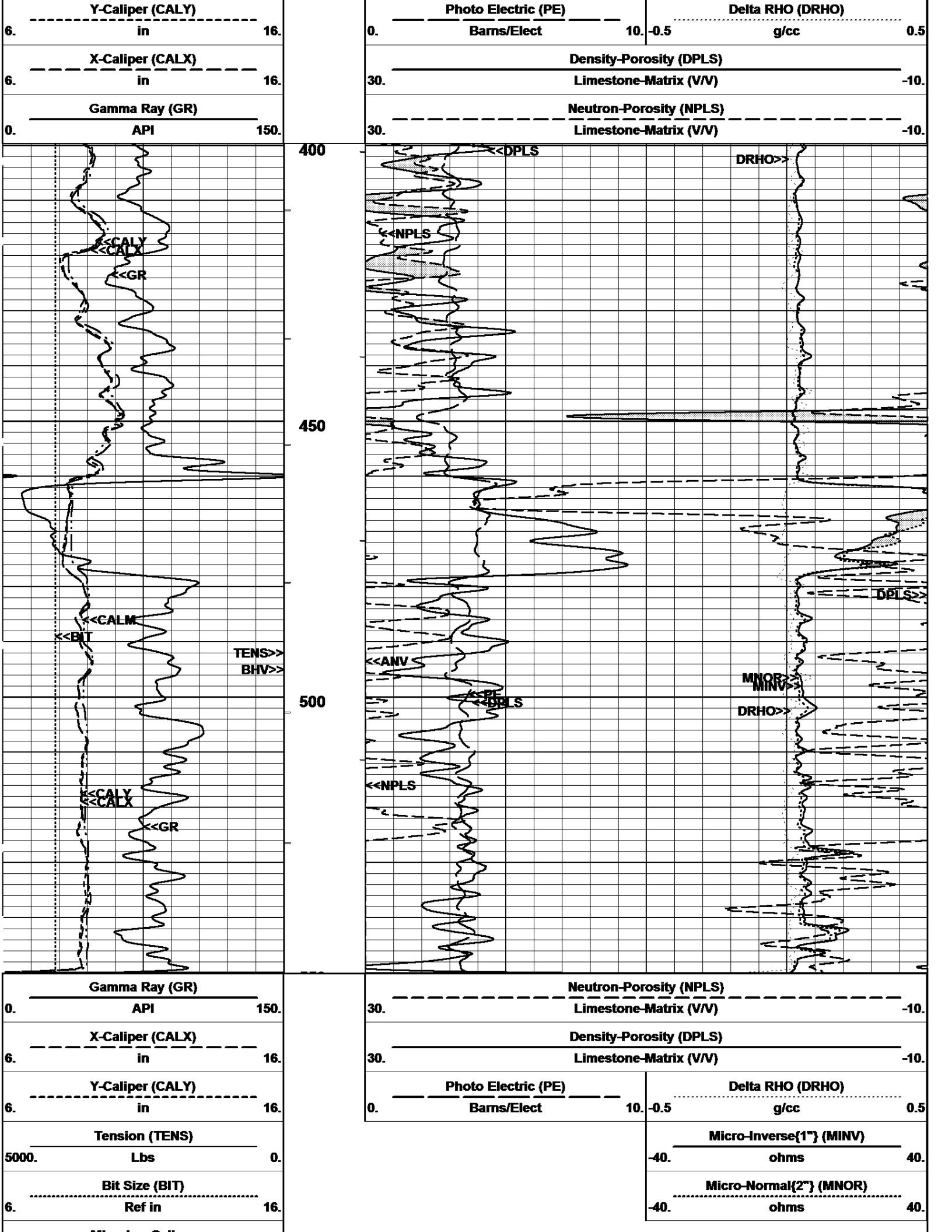
05/20/2015
01:22:29 => End Time

ANHYDRITE MARKER (5"/100Ft)

Log UP - (VER 11.19)
End Depth=> 399.90 Feet

Microlog-Caliper		
6.	in	16.
Bit Size (BIT)		
6.	Ref in	16.
Tension (TENS)		
5000.	Lbs	0.

Micro-Normal{2"} (MNOR)		
-40.	ohms	40.
Micro-Inverse{1"} (MINV)		
-40.	ohms	40.


Y-Caliper (CALY)
6. in 16.
X-Caliper (CALX)
6. in 16.
Gamma Ray (GR)
0. API 150.
Photo Electric (PE)
0. Barns/Elect 10.
Delta RHO (DRHO)
-0.5 g/cc 0.5
Density-Porosity (DPLS)
30. Limestone-Matrix (V/V) -10.
Neutron-Porosity (NPLS)
30. Limestone-Matrix (V/V) -10.
400
450
500
<<CALY
<<CALX
<<GR
<<CALM
<<BIT
TENS>>
BHV>>
<<DPLS
<<NPLS
DRHO>>
DPLS>>
<<ANV
MNOR>>
MINV>>
<<PE
<<DPLS
DRHO>>
<<NPLS
<<CALY
<<CALX
<<GR
Gamma Ray (GR)
0. API 150.
X-Caliper (CALX)
6. in 16.
Y-Caliper (CALY)
6. in 16.
Tension (TENS)
5000. Lbs 0.
Bit Size (BIT)
6. Ref in 16.
Neutron-Porosity (NPLS)
30. Limestone-Matrix (V/V) -10.
Density-Porosity (DPLS)
30. Limestone-Matrix (V/V) -10.
Photo Electric (PE)
0. Barns/Elect 10.
Delta RHO (DRHO)
-0.5 g/cc 0.5
Micro-Inverse{1"} (MINV)
-40. ohms 40.
Micro-Normal{2"} (MNOR)
-40. ohms 40.

Microlog-Caliper
6. in 16.

05/19/2015
23:39:27 => Start Time

ANHYDRITE MARKER (5"/100Ft)

Log UP - (VER 11.19)
Start Depth=> 549.90 Feet

05/20/2015
01:22:29 => End Time

MAIN PASS - LIMESTONE (5"/100Ft)

Log UP - (VER 11.19)
End Depth=> 1199.90 Feet

Microlog-Caliper
6. in 16.

Bit Size (BIT)
6. Ref in 16.

Tension (TENS)
5000. Lbs 0.

Y-Caliper (CALY)
6. in 16.

X-Caliper (CALX)
6. in 16.

Gamma Ray (GR)
0. API 150.

Micro-Normal{2"} (MNOR)
-40. ohms 40.

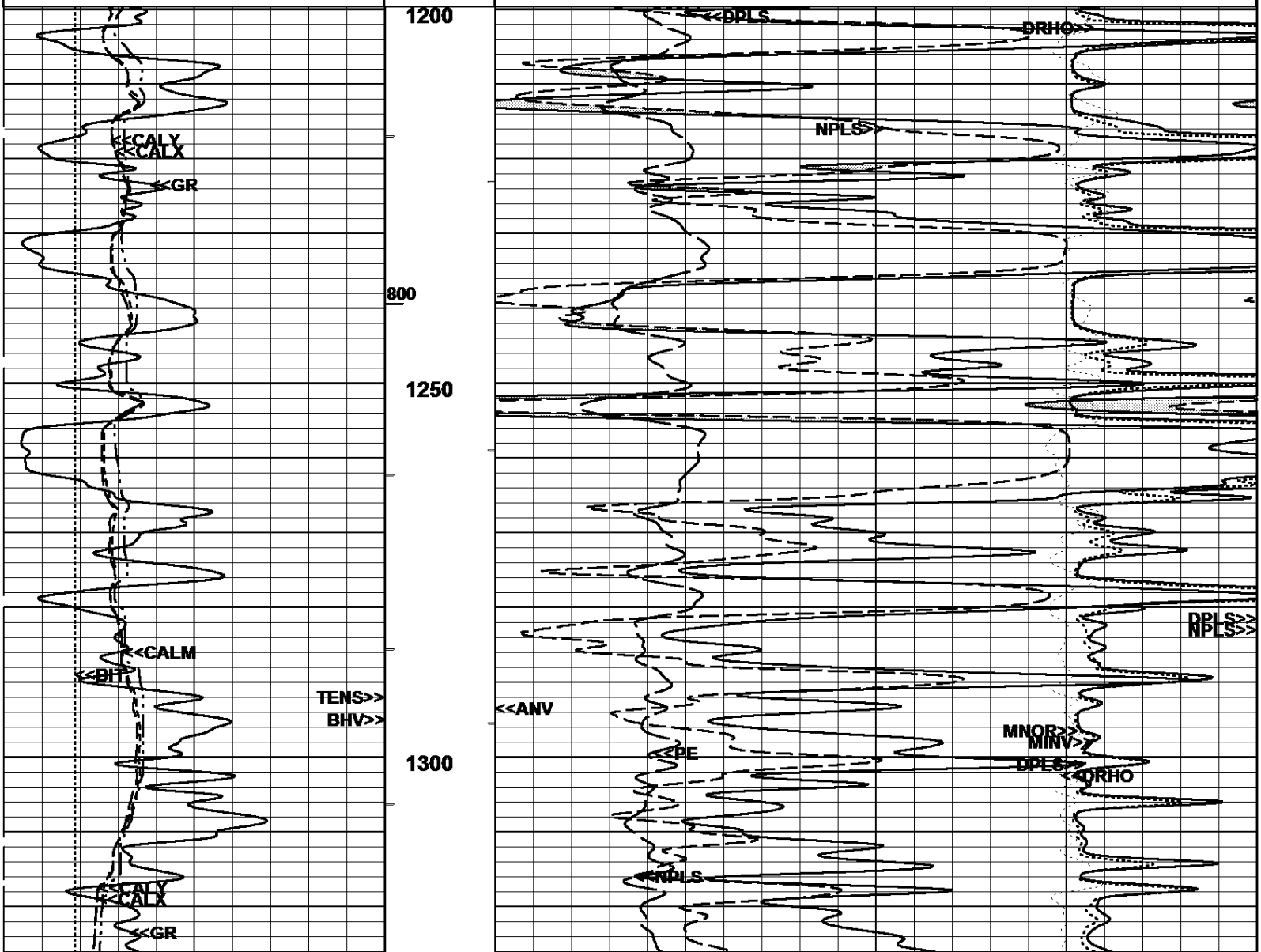
Micro-Inverse{1"} (MINV)
-40. ohms 40.

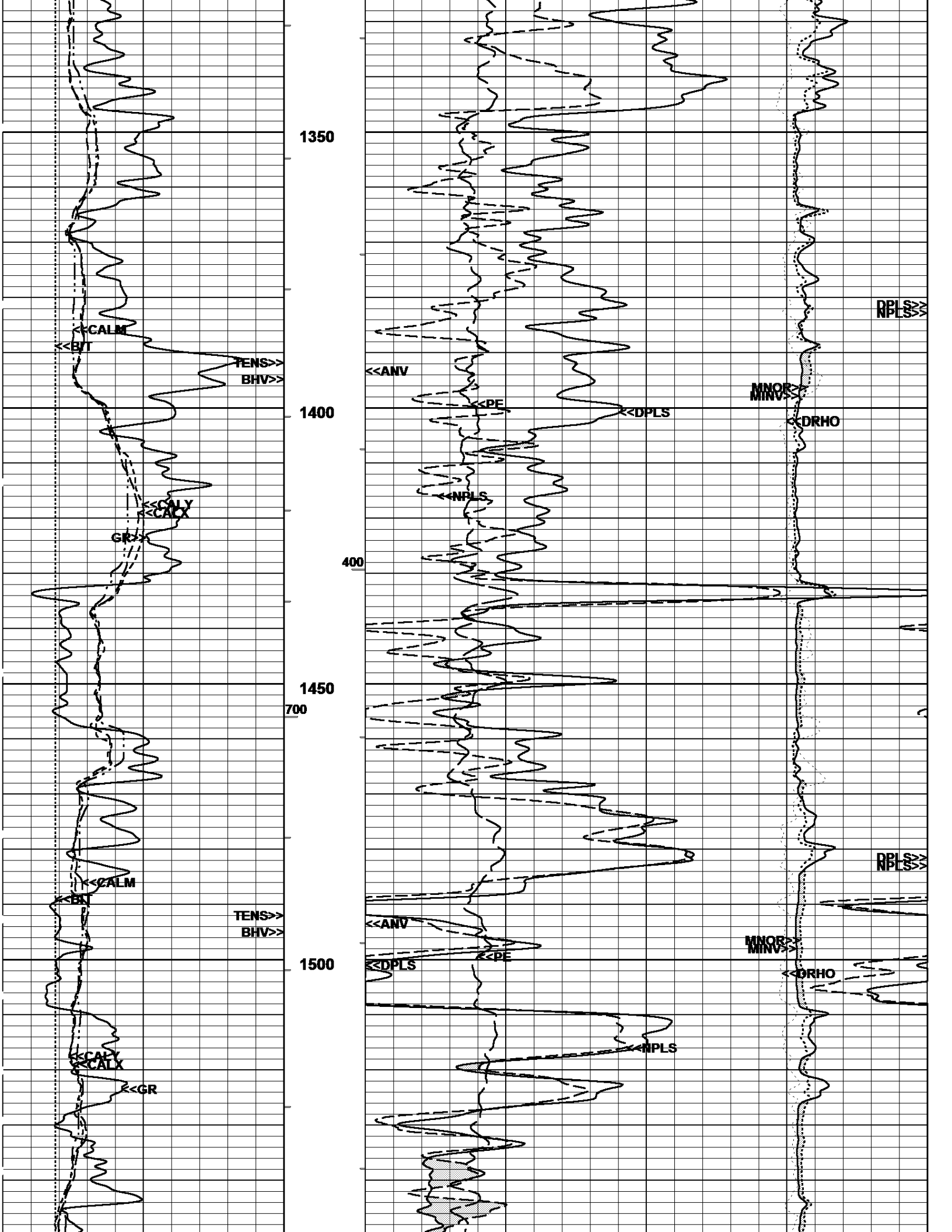
Photo Electric (PE)
0. Barns/Elect 10.

Delta RHO (DRHO)
-0.5 g/cc 0.5

Density-Porosity (DPLS)
30. Limestone-Matrix (V/V) -10.

Neutron-Porosity (NPLS)
30. Limestone-Matrix (V/V) -10.




1350
1400
400
1450
700
1500
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<<BIT
TENS>>
BHV>>
<<CALY
<<CALX
GR>>
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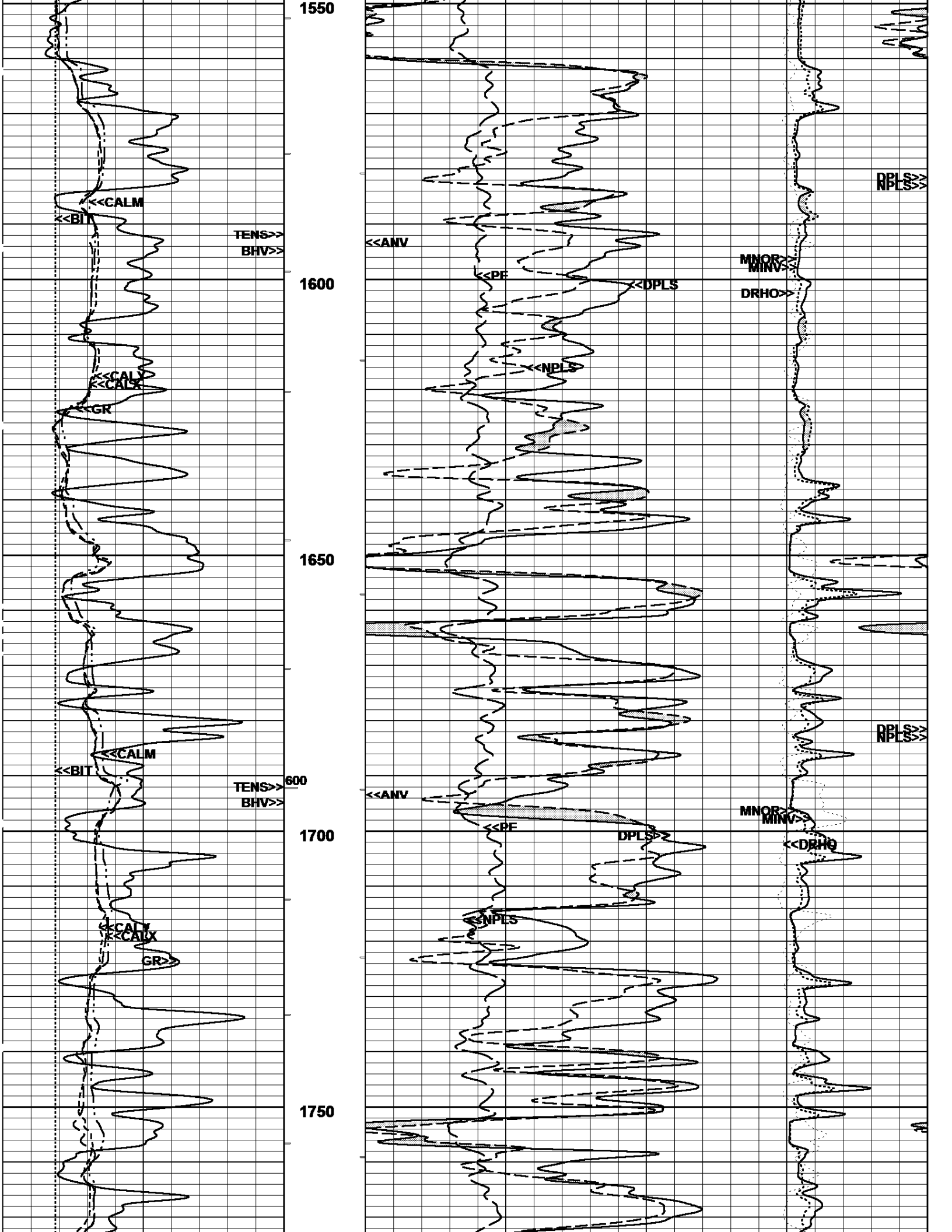
<<PE
<<DPLS
<<NPLS
DPLS>>
NPLS>>
MNOR>>
MINV>>
<<DRHO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DPLS>>
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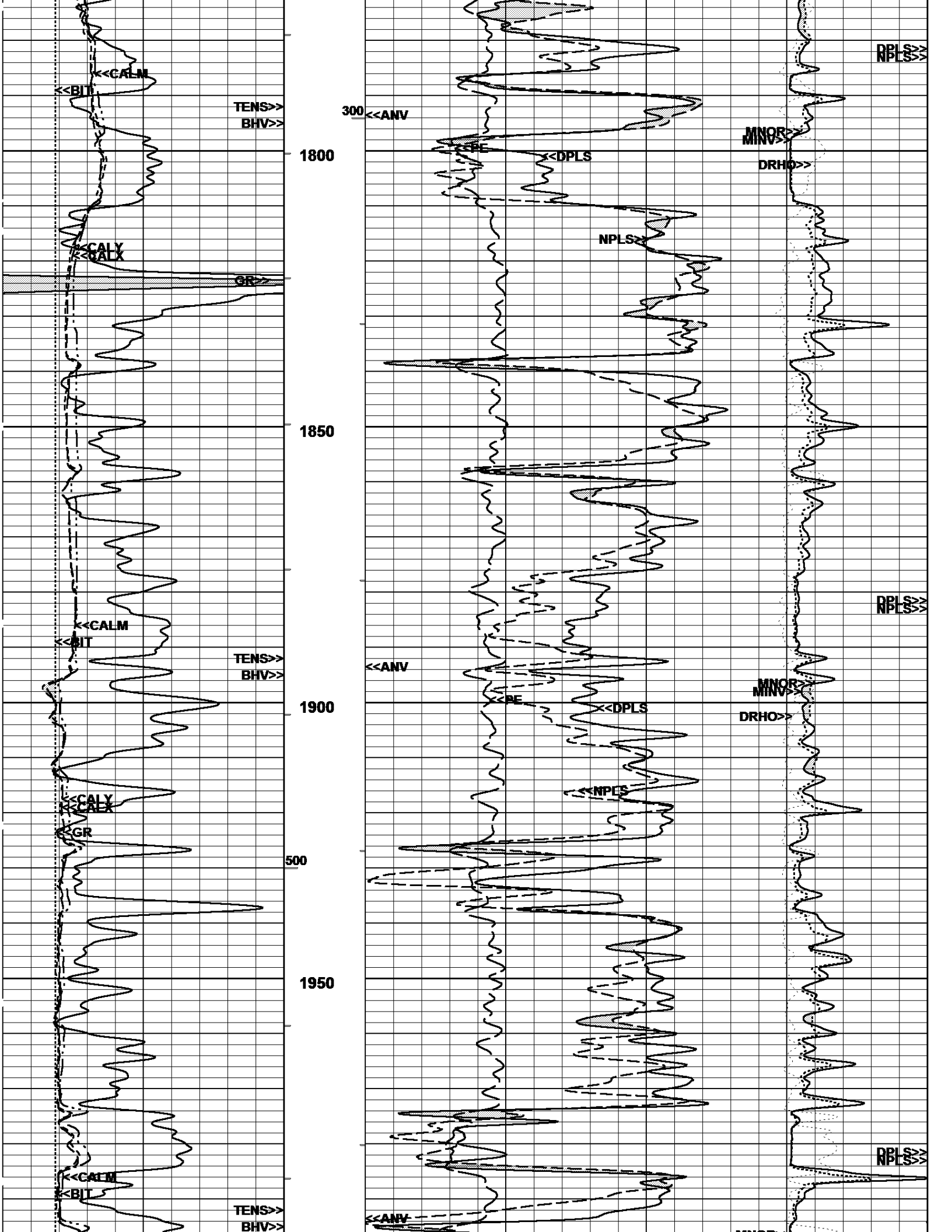
<<NPLS
1750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NPLS>>
MNOR>>
MINV>>
DRHO>>
DPLS>>
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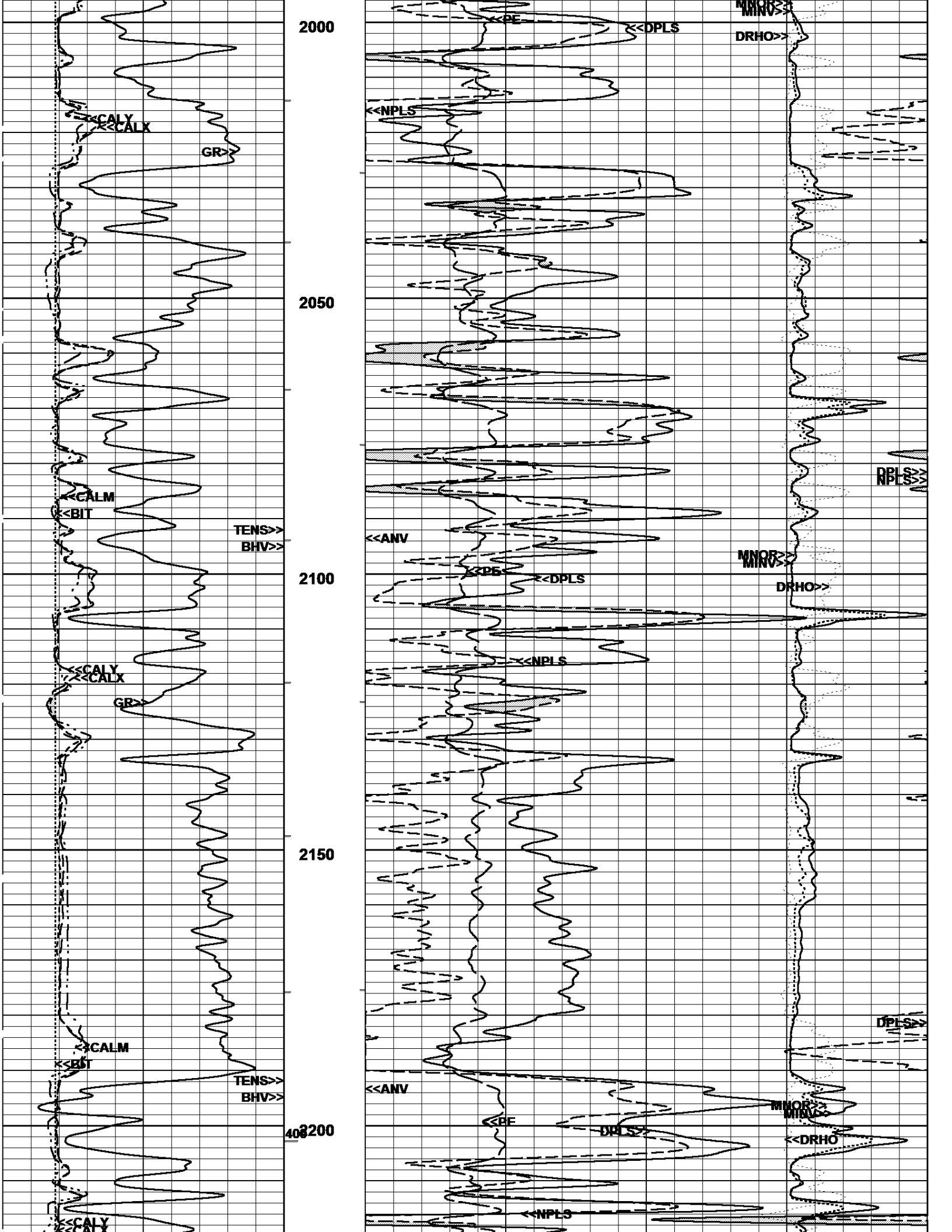
MNOR>>
MINV>>
DRHO>>
DPLS>>
NPLS>>
1800
1850
1900
500
1950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BHV>>
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MNOR>>
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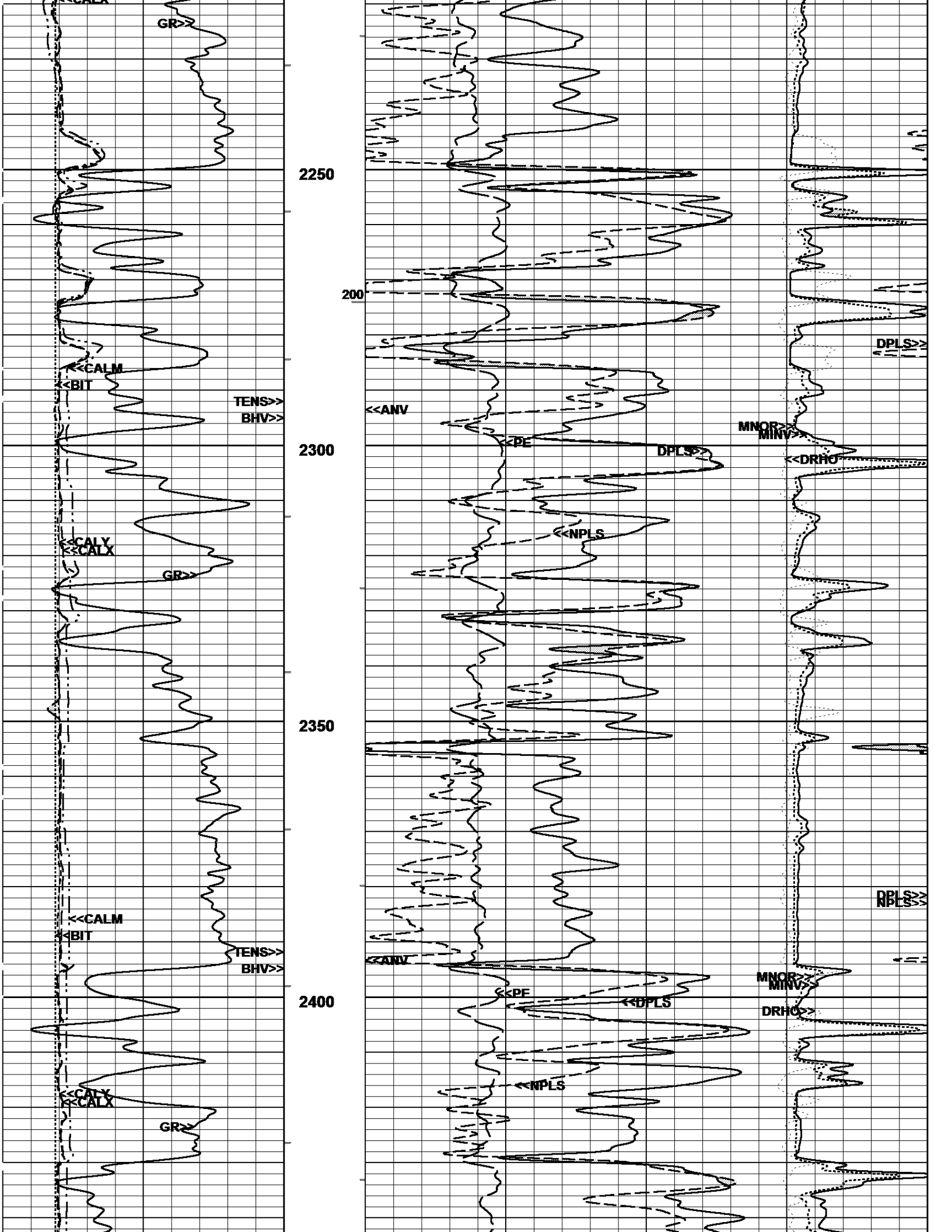
DRHO>>
DPLS>>
NPLS>>
<<DRHO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BHV>>
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DPLS>>
MNOR>>
MINV>>
<<DRHO
<<NPLS
<<CALY
<<CALX
GR>>
2300
2350
<<CALM
<<BIT
TENS>>
BHV>>
<<ANV
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DPLS>>
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MNOR>>
MINV>>
DRHO>>
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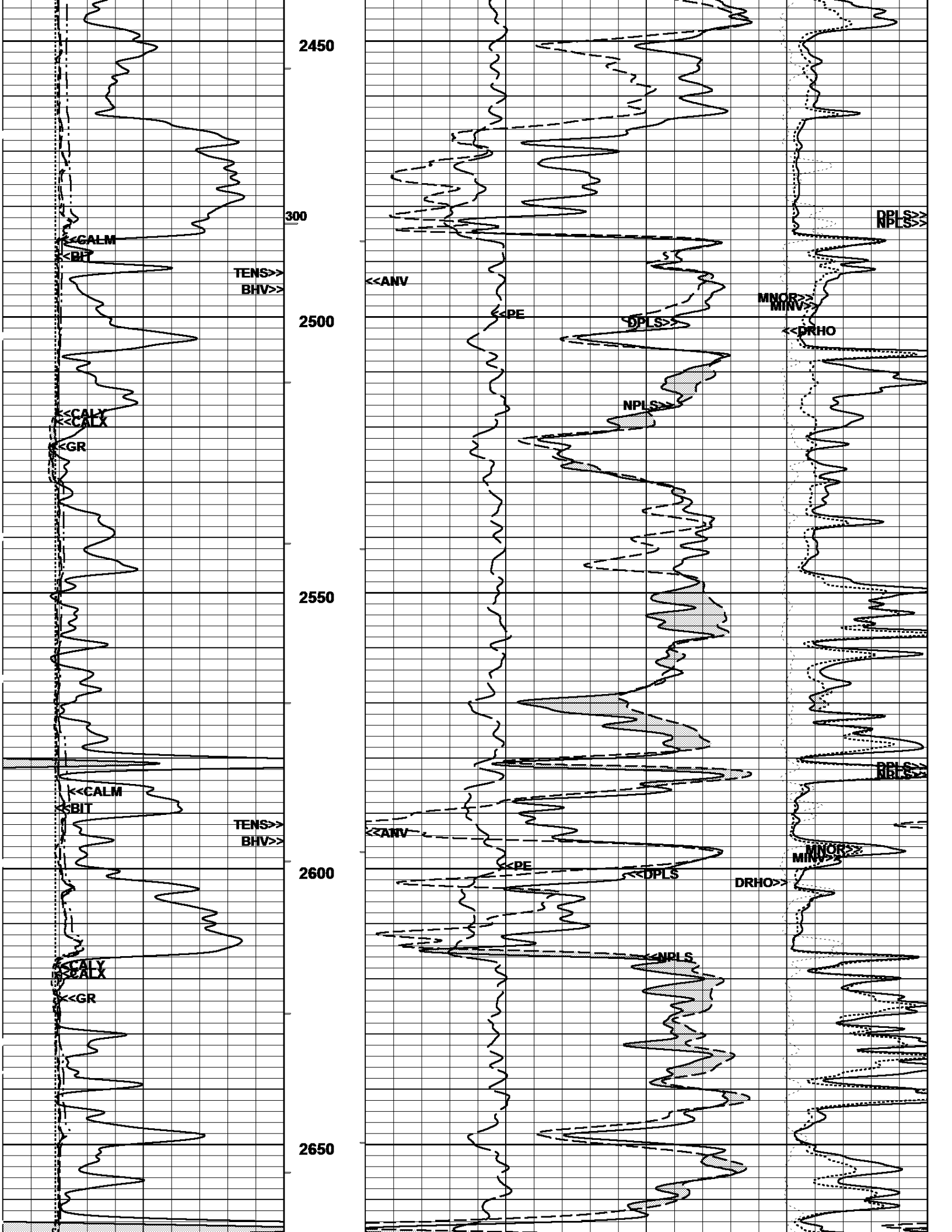
<<CALY
<<CALX
GR>>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MINV>>
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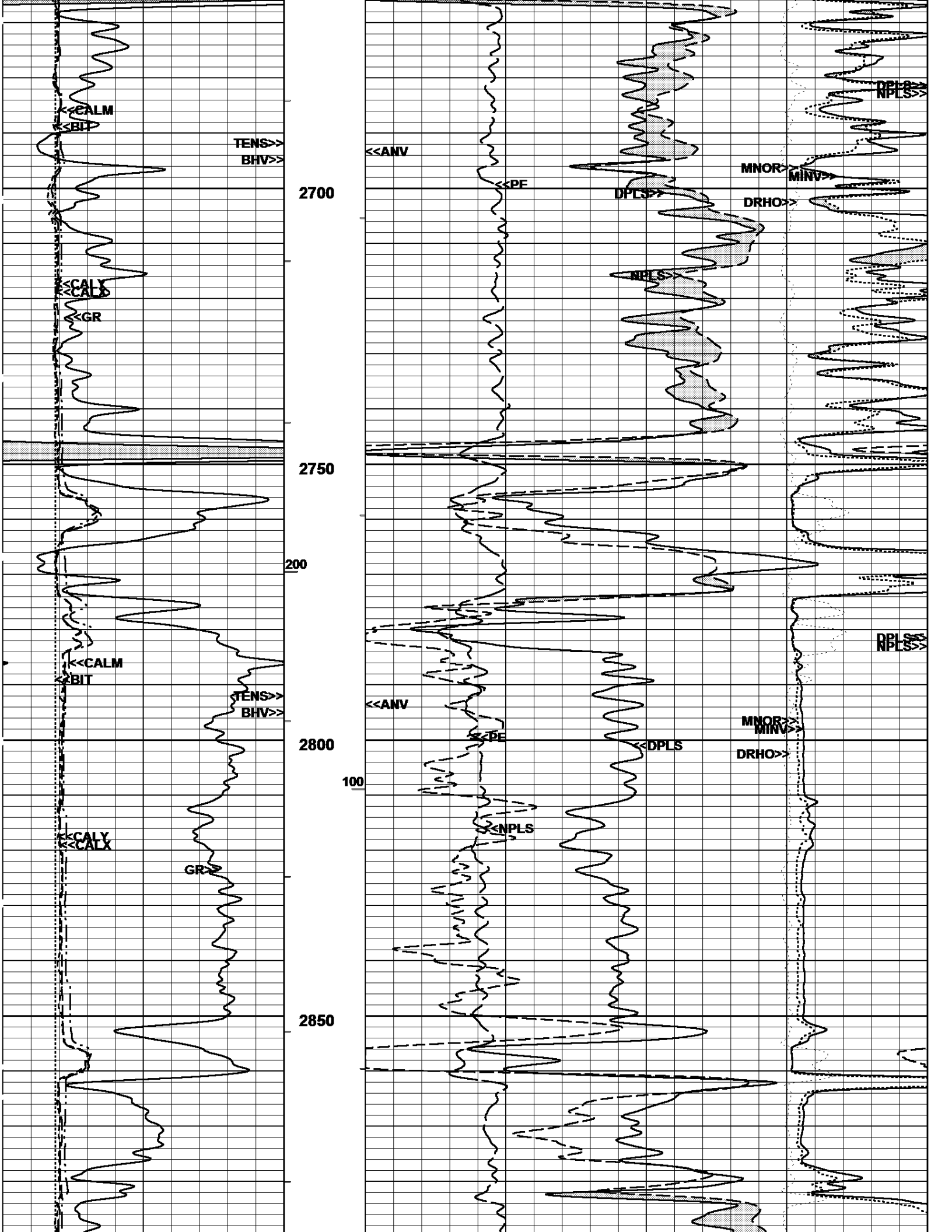
DPLS>>
NPLS>>
MNOR>>
MINV>>
DRHO>>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NPLS>>
MNOR>>
MINV>>
DRHO>>
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DRHO>>
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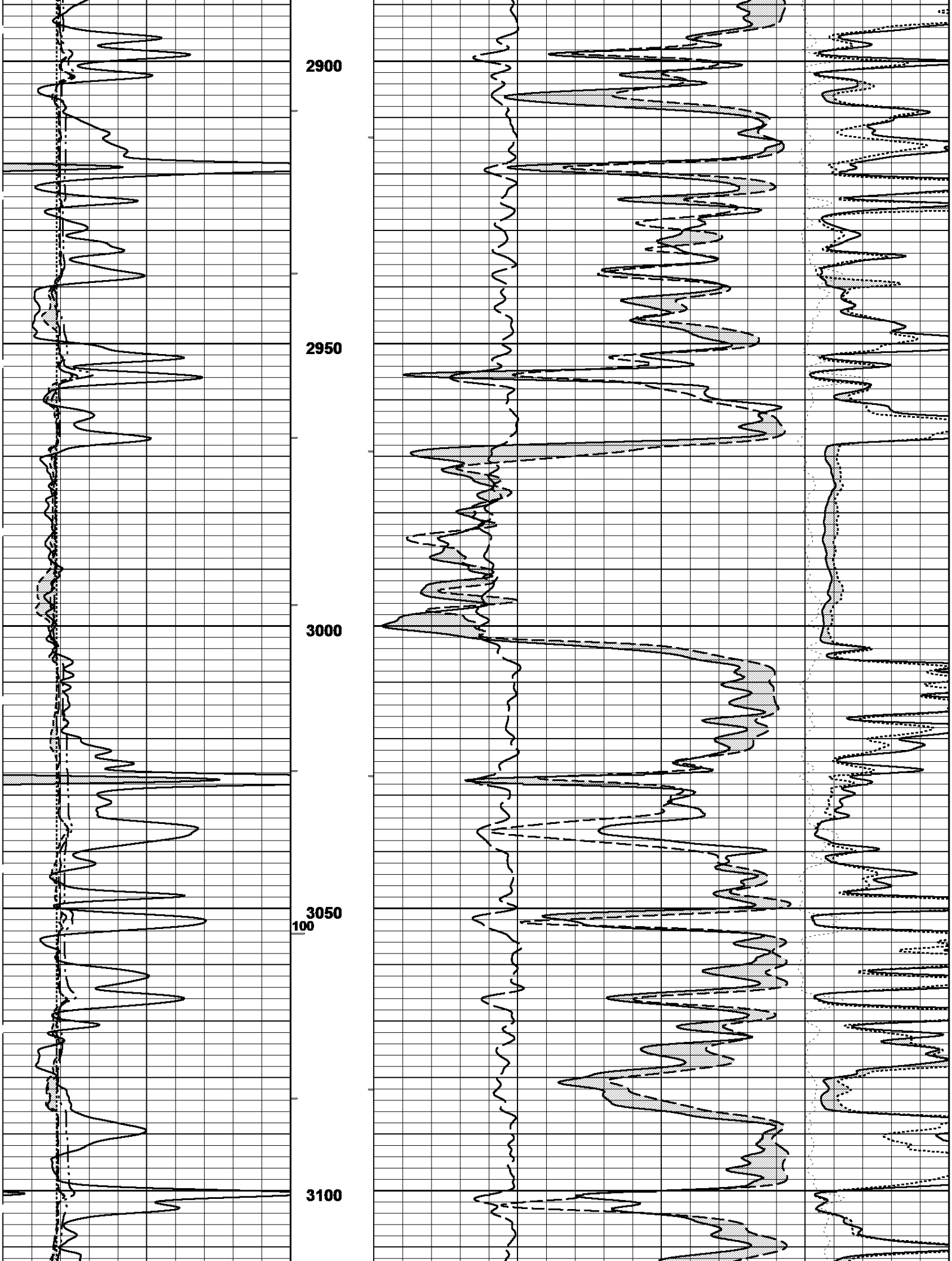
100
2850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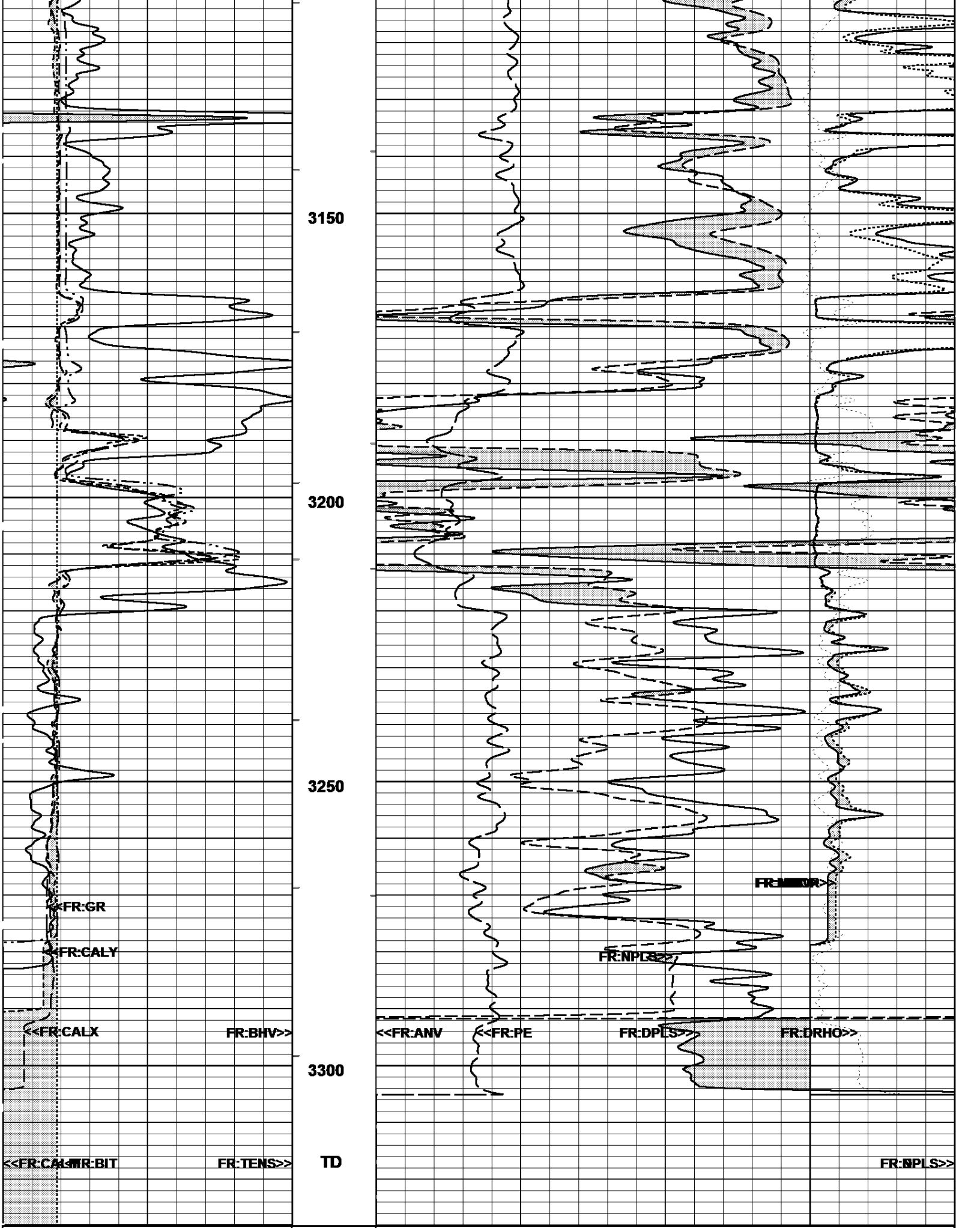
2950
3000
3050
100
3100


3150
3200
3250
3300
TD
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FR:BHV>>
<<FR:CAL
MR:BIT
FR:TENS>>
<<FR:ANV
<<FR:PE
FR:DPLS>>
FR:DRHO>>
FR:NPLS>>
Gamma Ray (GR)
0.
API
150.
Neutron-Porosity (NPLS)
30.
Limestone-Matrix (V/V)
-10.

X-Caliper (CALX)
6. in 16.

Y-Caliper (CALY)
6. in 16.

Tension (TENS)
5000. Lbs 0.

Bit Size (BIT)
6. Ref in 16.

Microlog-Caliper
6. in 16.

Density-Porosity (DPLS)
30. Limestone-Matrix (V/V) -10.

Photo Electric (PE)
0. Barns/Elect 10.

Delta RHO (DRHO)
-0.5 g/cc 0.5

Micro-Inverse{1"} (MINV)
-40. ohms 40.

Micro-Normal{2"} (MNOR)
-40. ohms 40.

05/19/2015
23:39:27 => Start Time

MAIN PASS - LIMESTONE (5"/100Ft)

Log UP - (VER 11.19)
Start Depth=> 3328.00 Feet

05/19/2015
23:32:34 => End Time

REPEAT PASS - LIMESTONE (5"/100Ft)

Log UP - (VER 11.19)
End Depth=> 2649.90 Feet

Microlog-Caliper
6. in 16.

Bit Size (BIT)
6. Ref in 16.

Tension (TENS)
5000. Lbs 0.

Y-Caliper (CALY)
6. in 16.

X-Caliper (CALX)
6. in 16.

Gamma Ray (GR)
0. API 150.

Micro-Normal{2"} (MNOR)
-40. ohms 40.

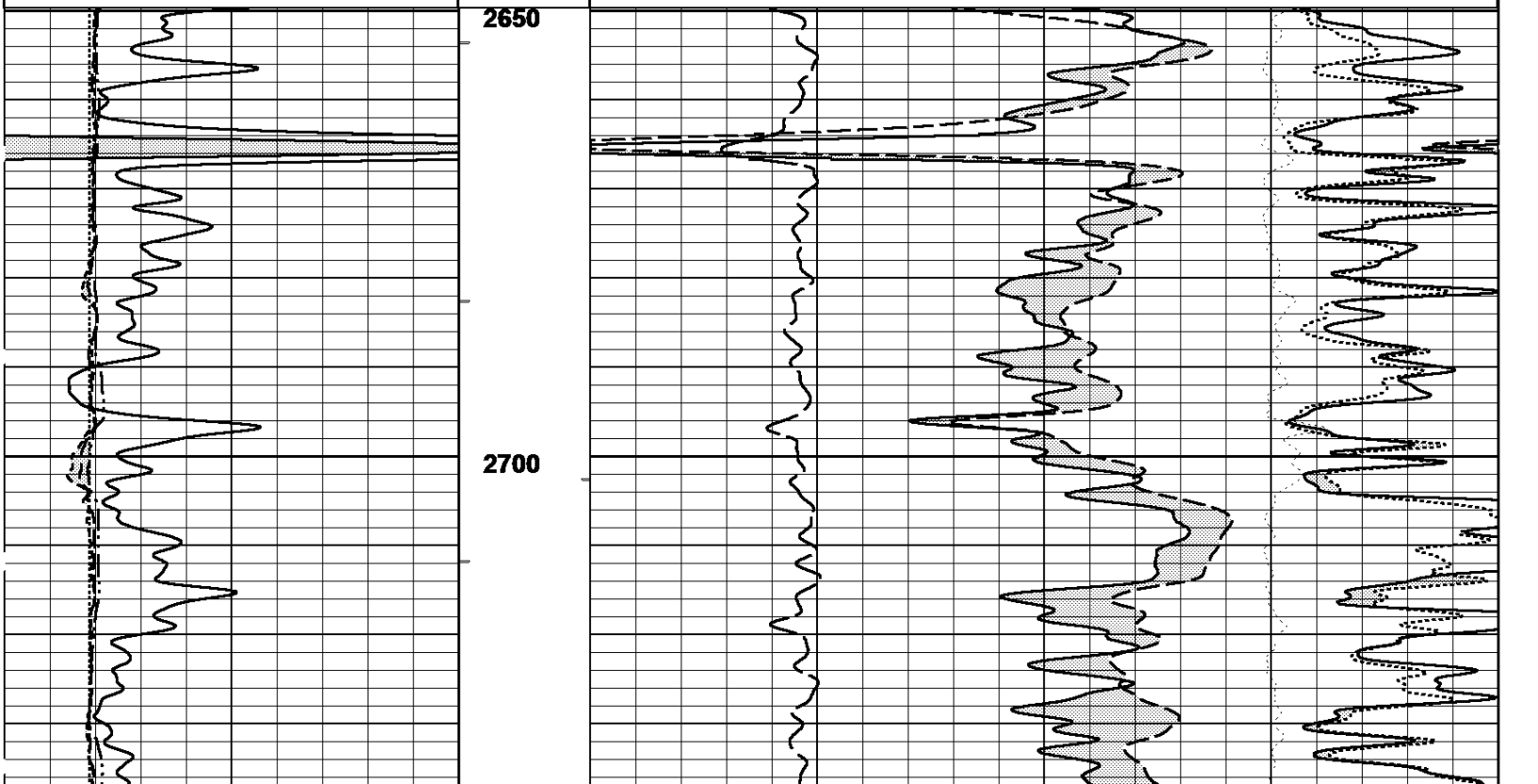
Micro-Inverse{1"} (MINV)
-40. ohms 40.

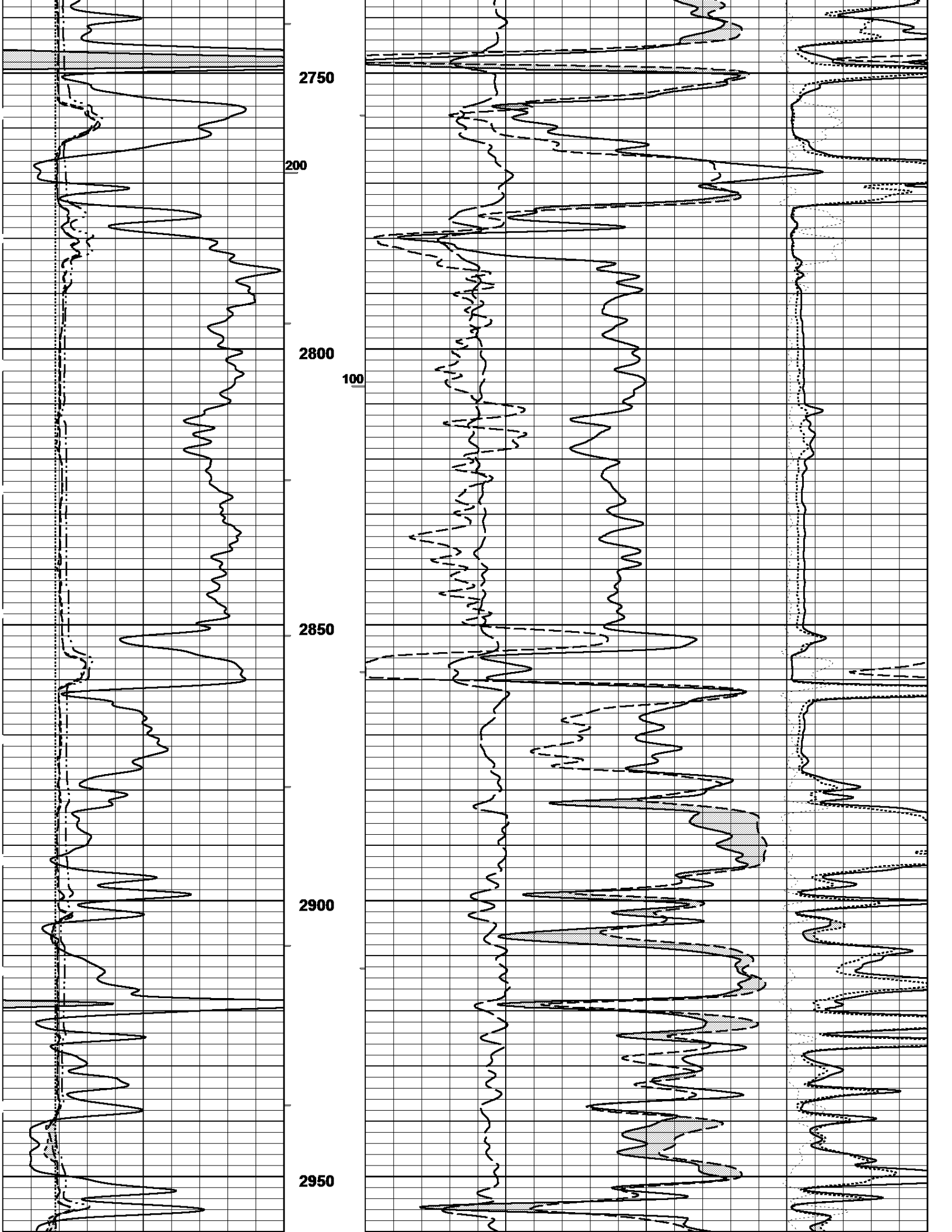
Photo Electric (PE)
0. Barns/Elect 10.

Delta RHO (DRHO)
-0.5 g/cc 0.5

Density-Porosity (DPLS)
30. Limestone-Matrix (V/V) -10.

Neutron-Porosity (NPLS)
30. Limestone-Matrix (V/V) -10.

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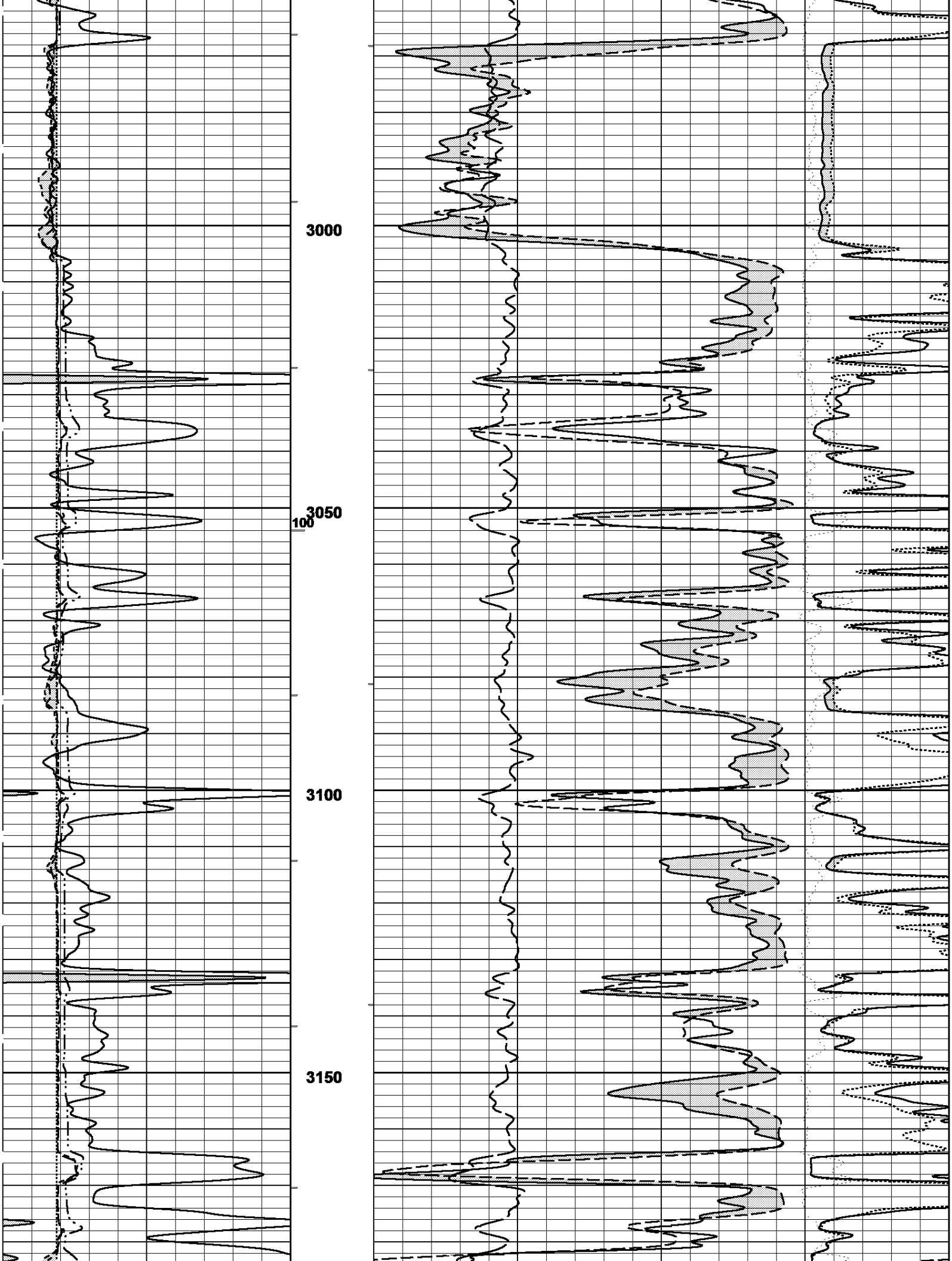
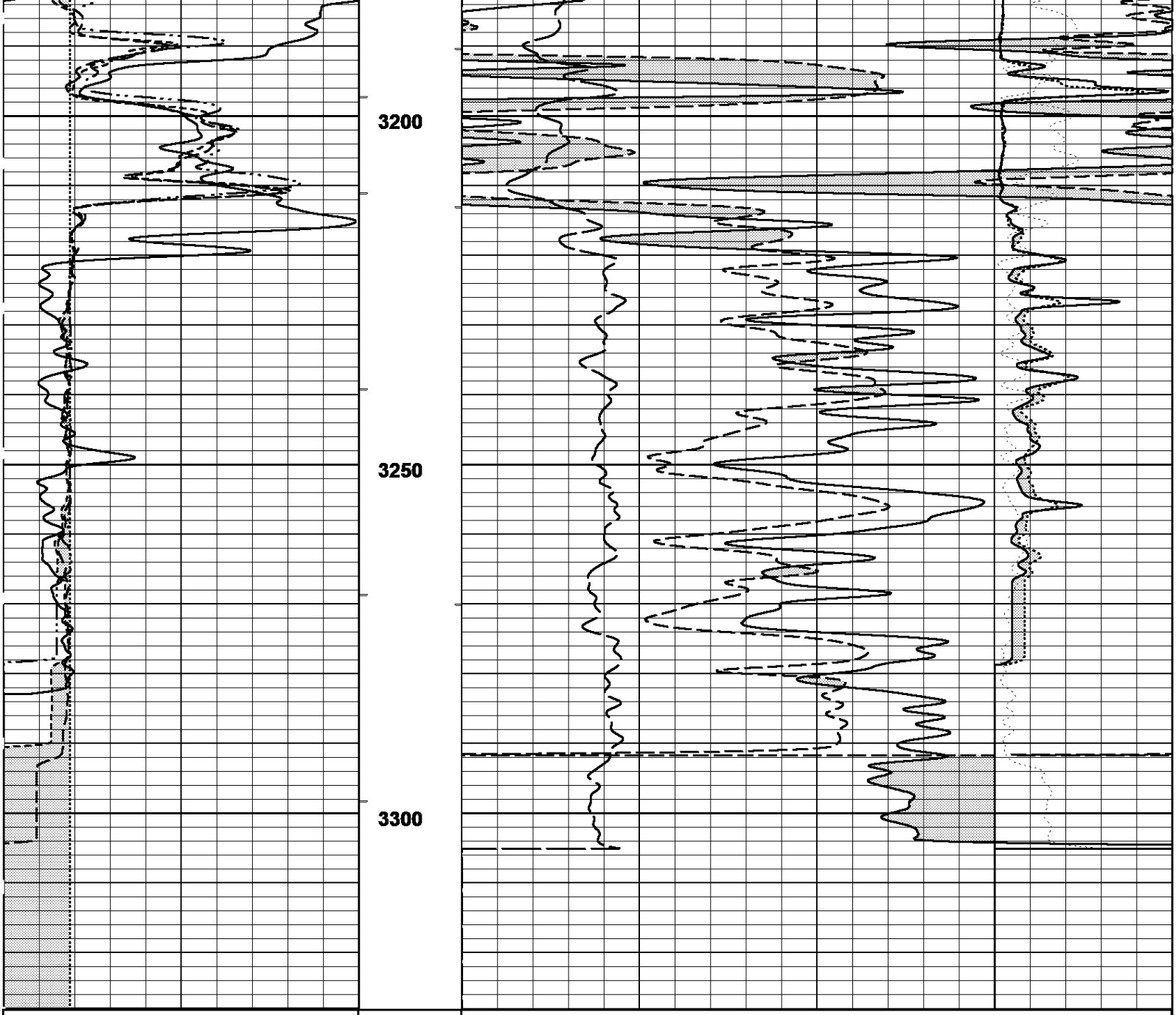
200
2800
100
2850
2900
2950


3000
3050
100
3100
3150



Gamma Ray (GR)		
0.	API	150.
X-Caliper (CALX)		
6.	in	16.
Y-Caliper (CALY)		
6.	in	16.
Tension (TENS)		
5000.	Lbs	0.
Bit Size (BIT)		
6.	Ref in	16.
Microlog-Caliper		
6.	in	16.

Neutron-Porosity (NPLS)		
30.	Limestone-Matrix (V/V)	-10.
Density-Porosity (DPLS)		
30.	Limestone-Matrix (V/V)	-10.
Photo Electric (PE)		
0.	Barns/Elect	10.
Delta RHO (DRHO)		
-0.5	g/cc	0.5
Micro-Inverse{1"} (MINV)		
-40.	ohms	40.
Micro-Normal{2"} (MNOR)		
-40.	ohms	40.

05/19/2015
22:57:15 => Start Time

REPEAT PASS - LIMESTONE (5"/100Ft)

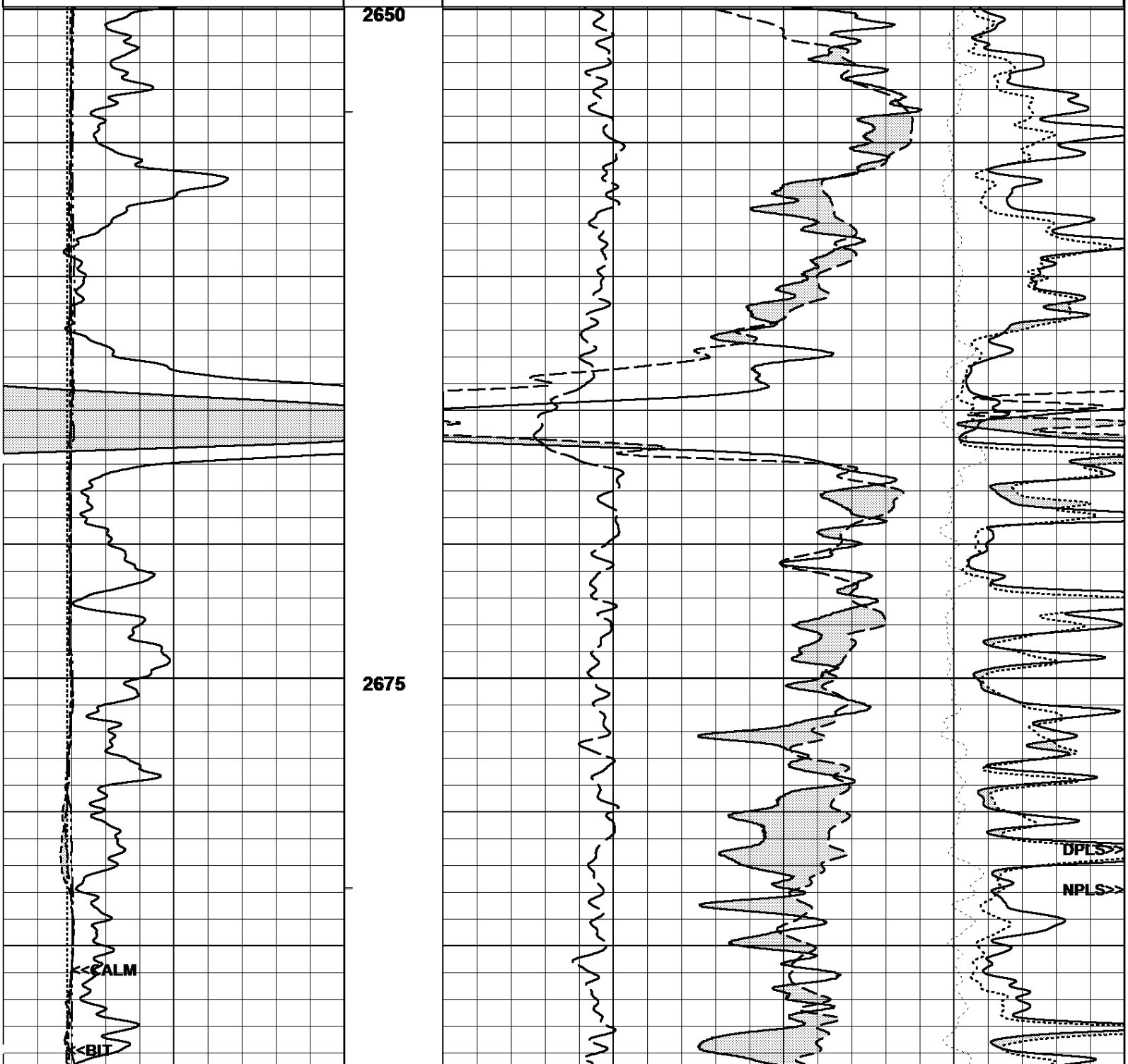
Log UP - (VER 11.19)
Start Depth=> 3328.00 Feet

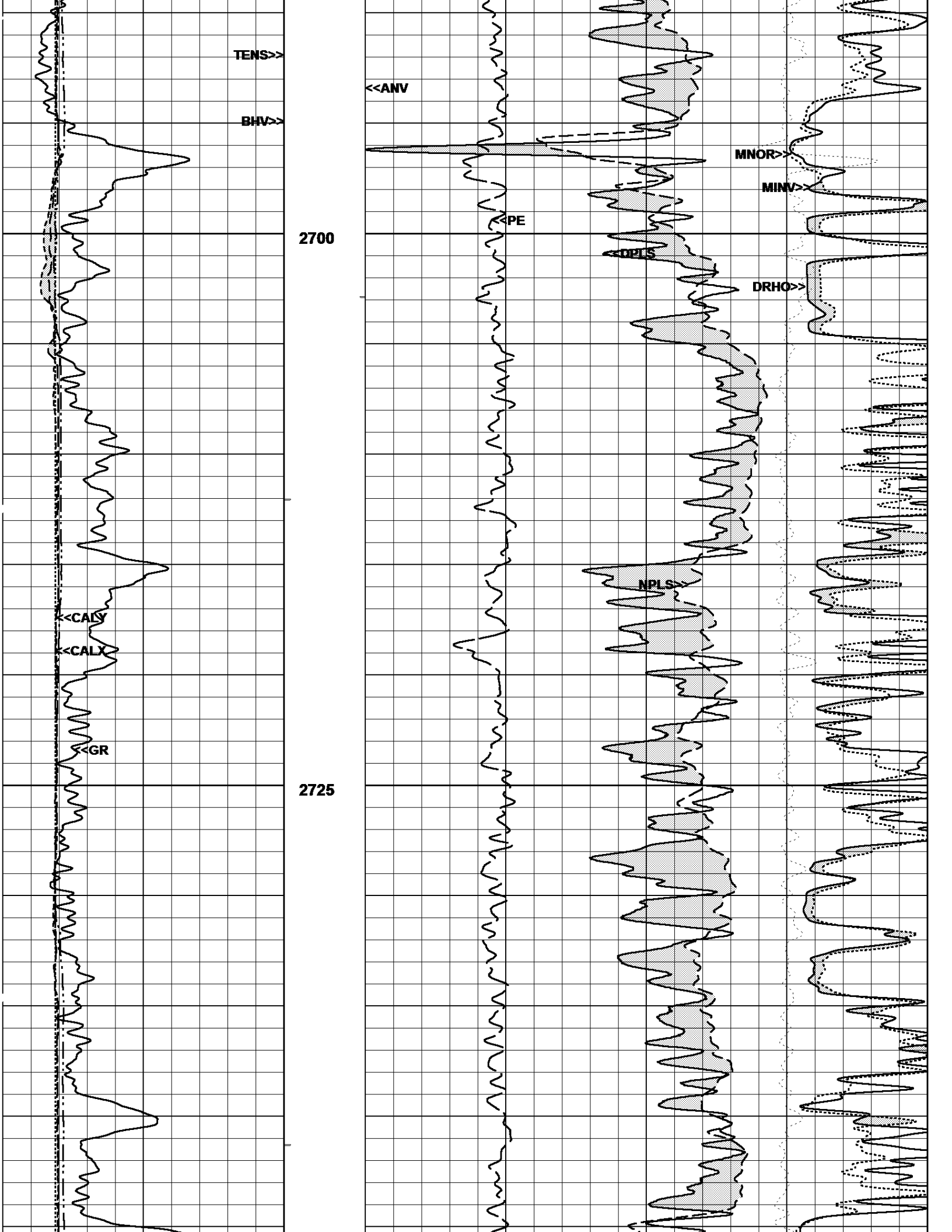
05/19/2015
23:32:34 => End Time

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

Log UP - (VER 11.19)
End Depth=> 2649.97 Feet

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




TENS>>
BHV>>
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<<CALX
<<GR
2700
2725
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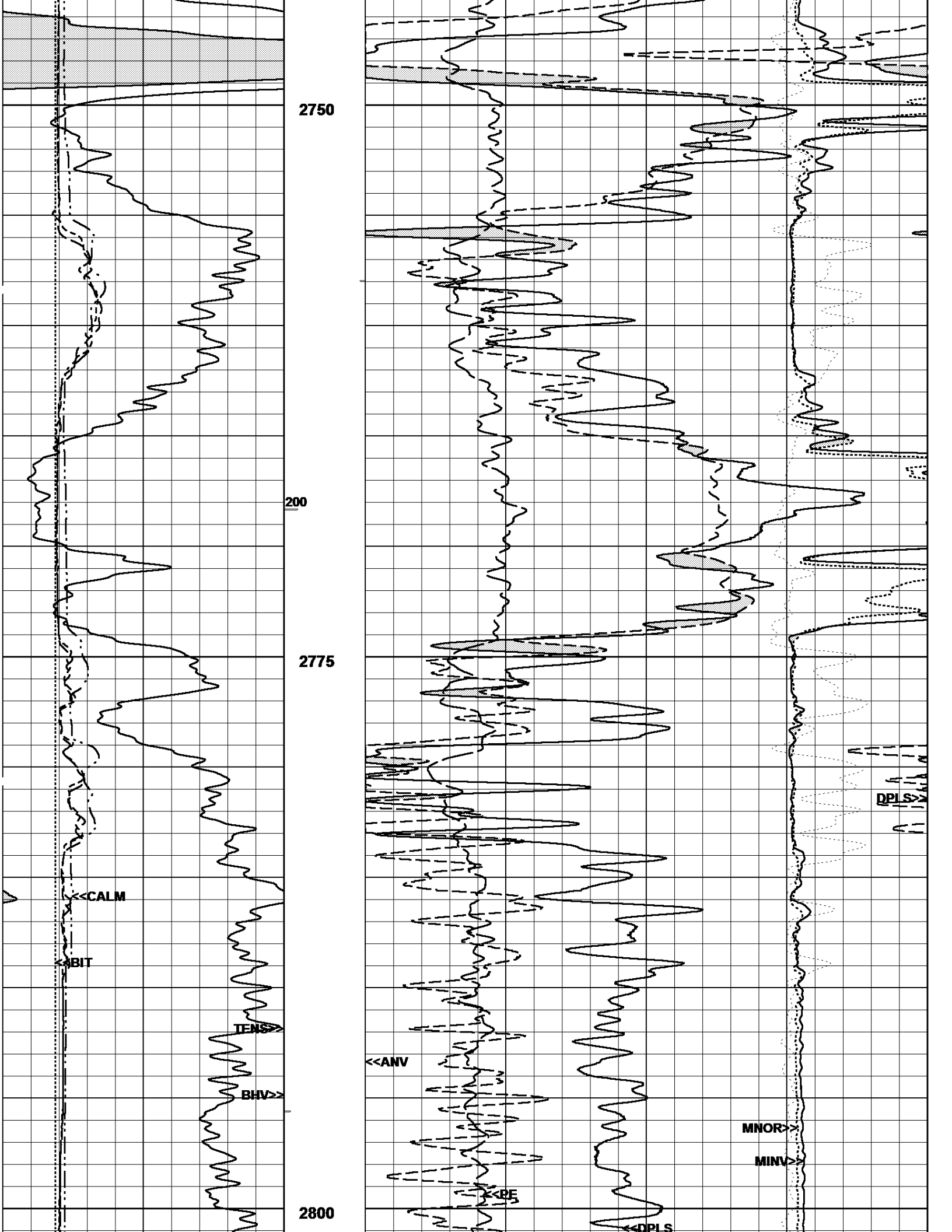
<DPLS
NPLS>>
MNOR>>
MINV>>
DRHO>>


2750
200
2775
2800
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TENS>>
BHV>>
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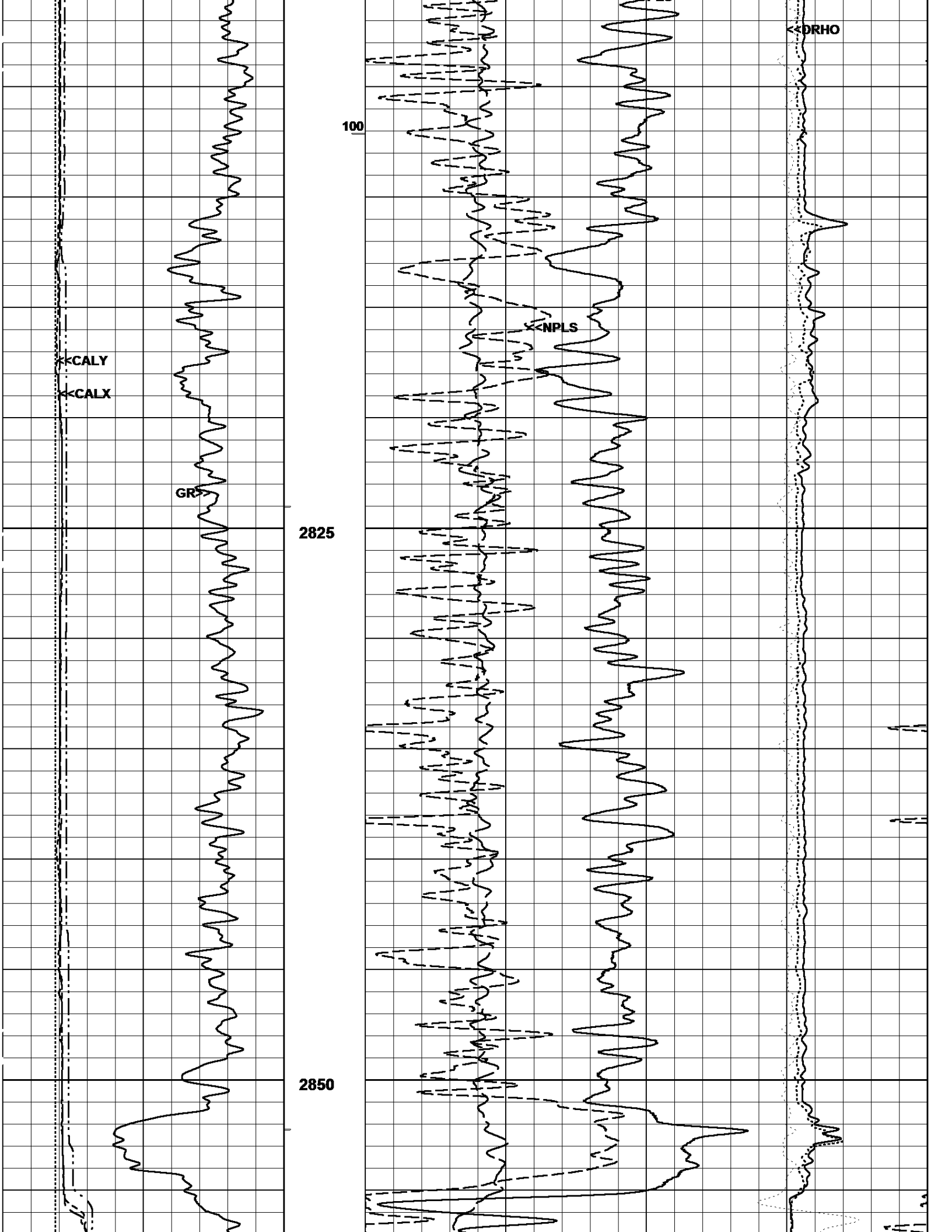
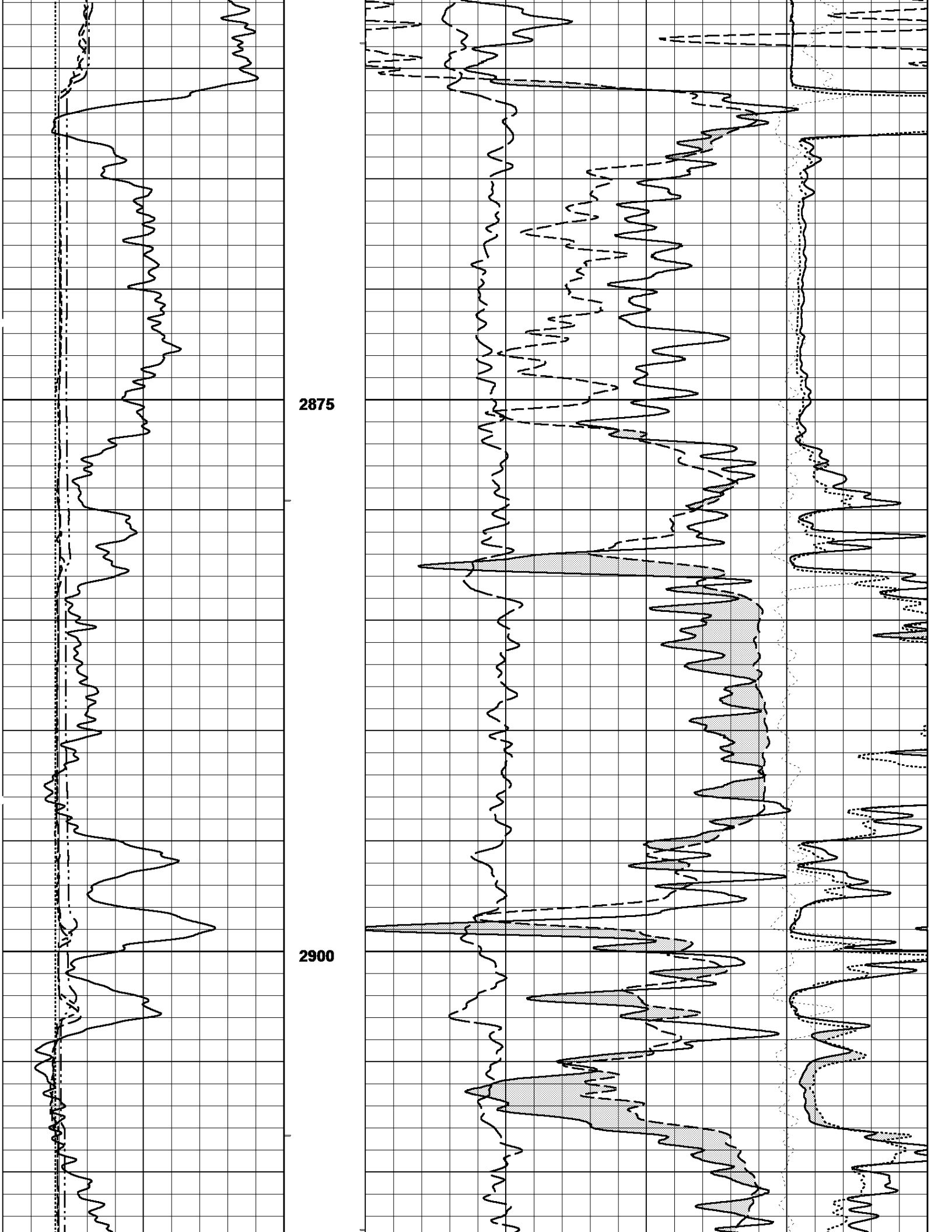
DPLS>>
MNOR>>
MINV>>


DRHO
100
NPLS
CALY
CALX
GR
2825
2850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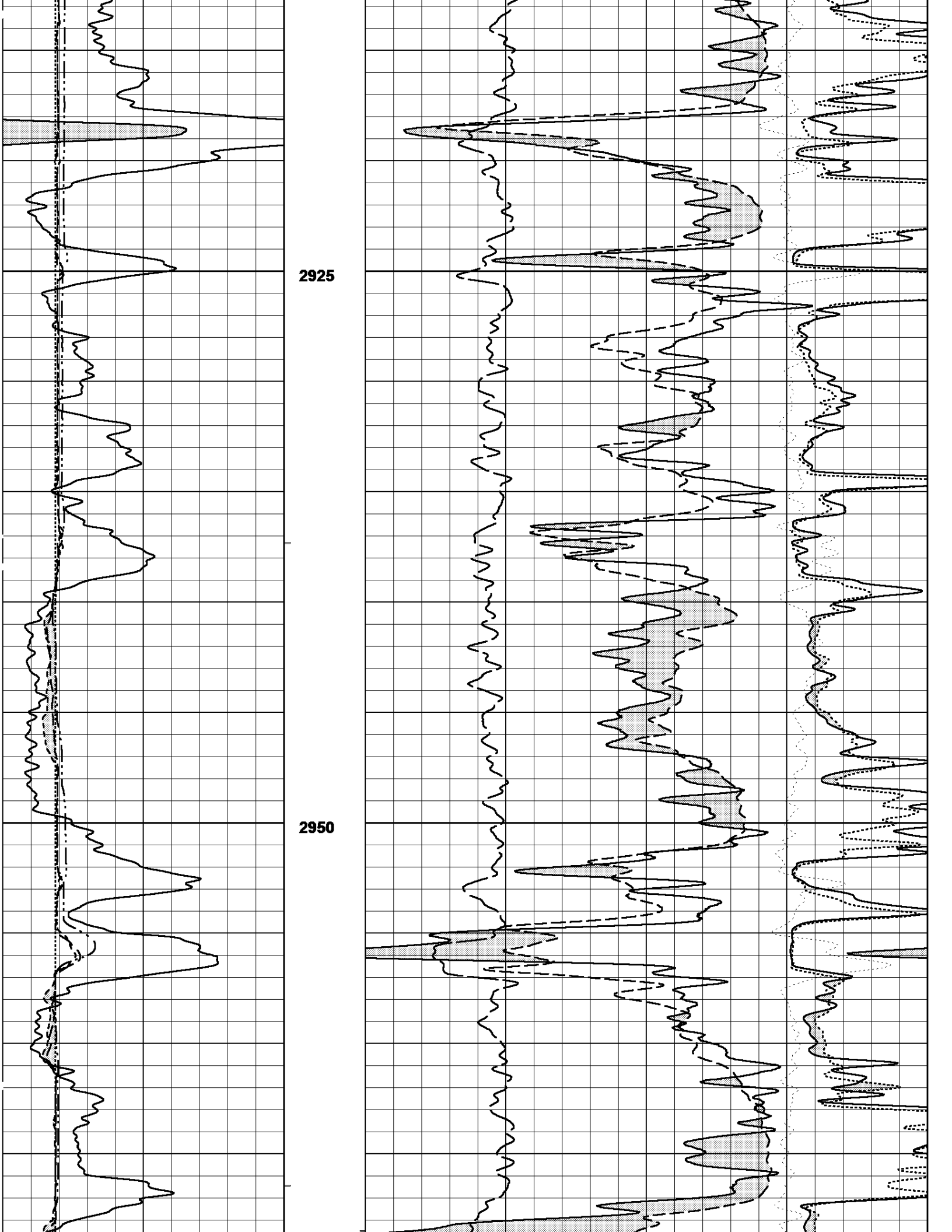
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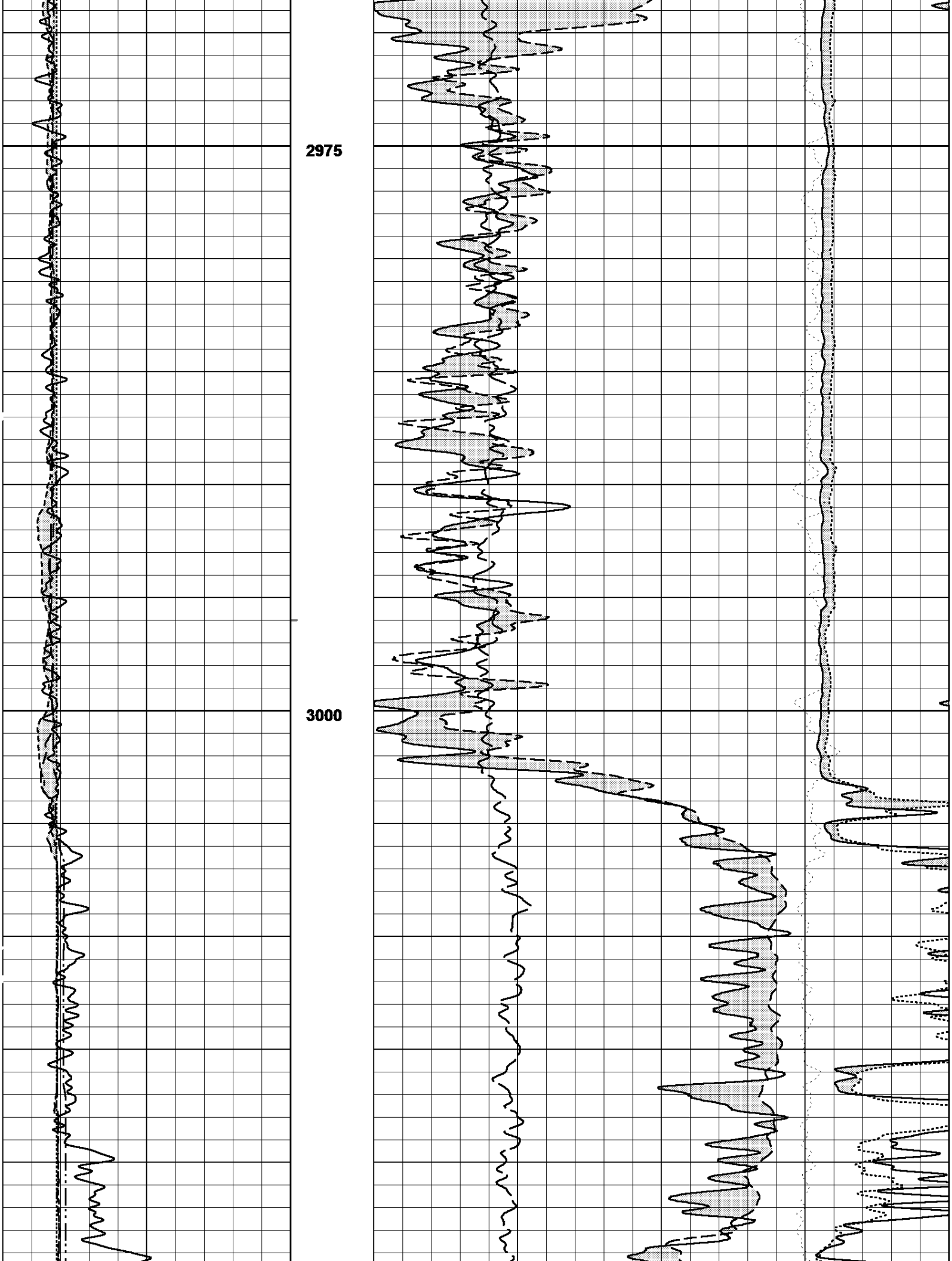
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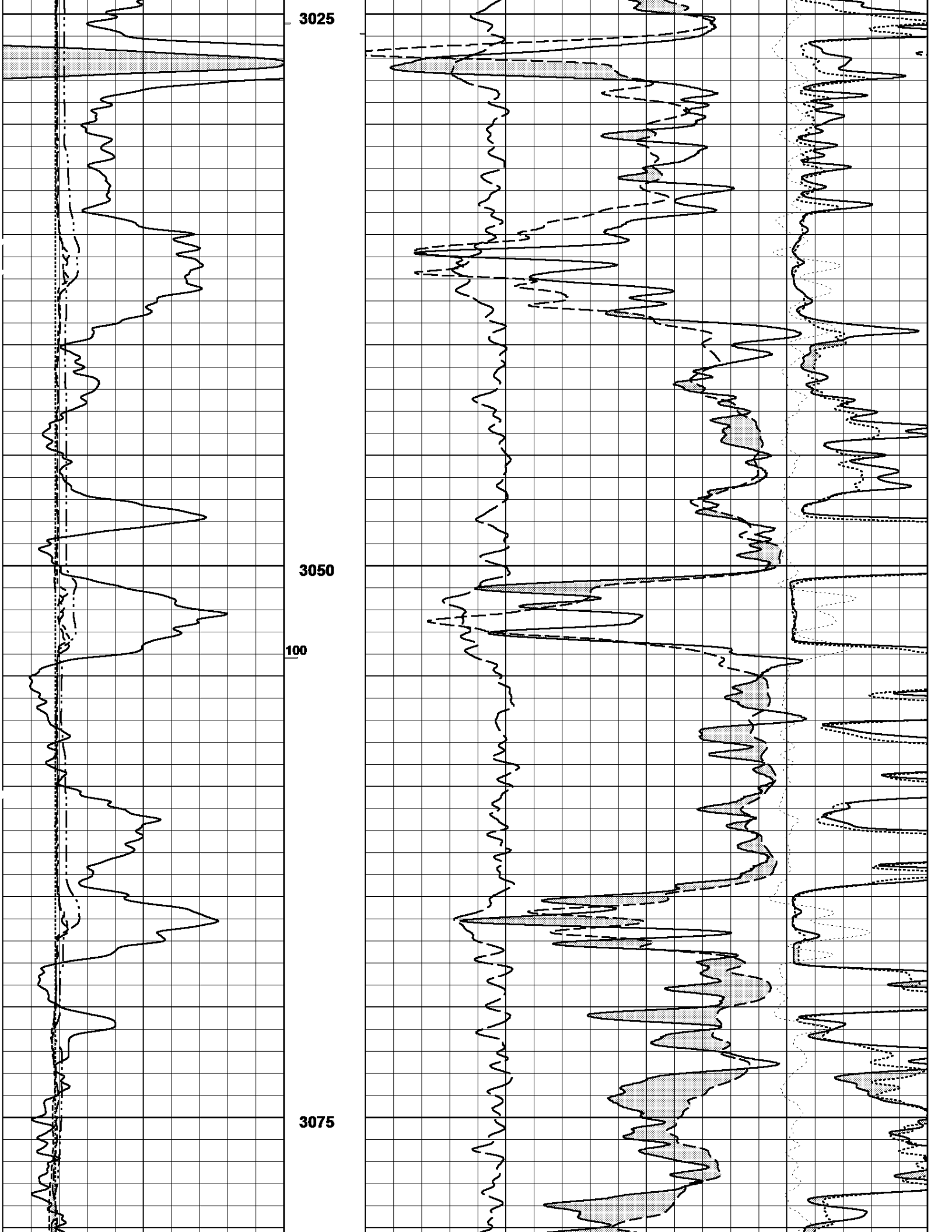
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3050
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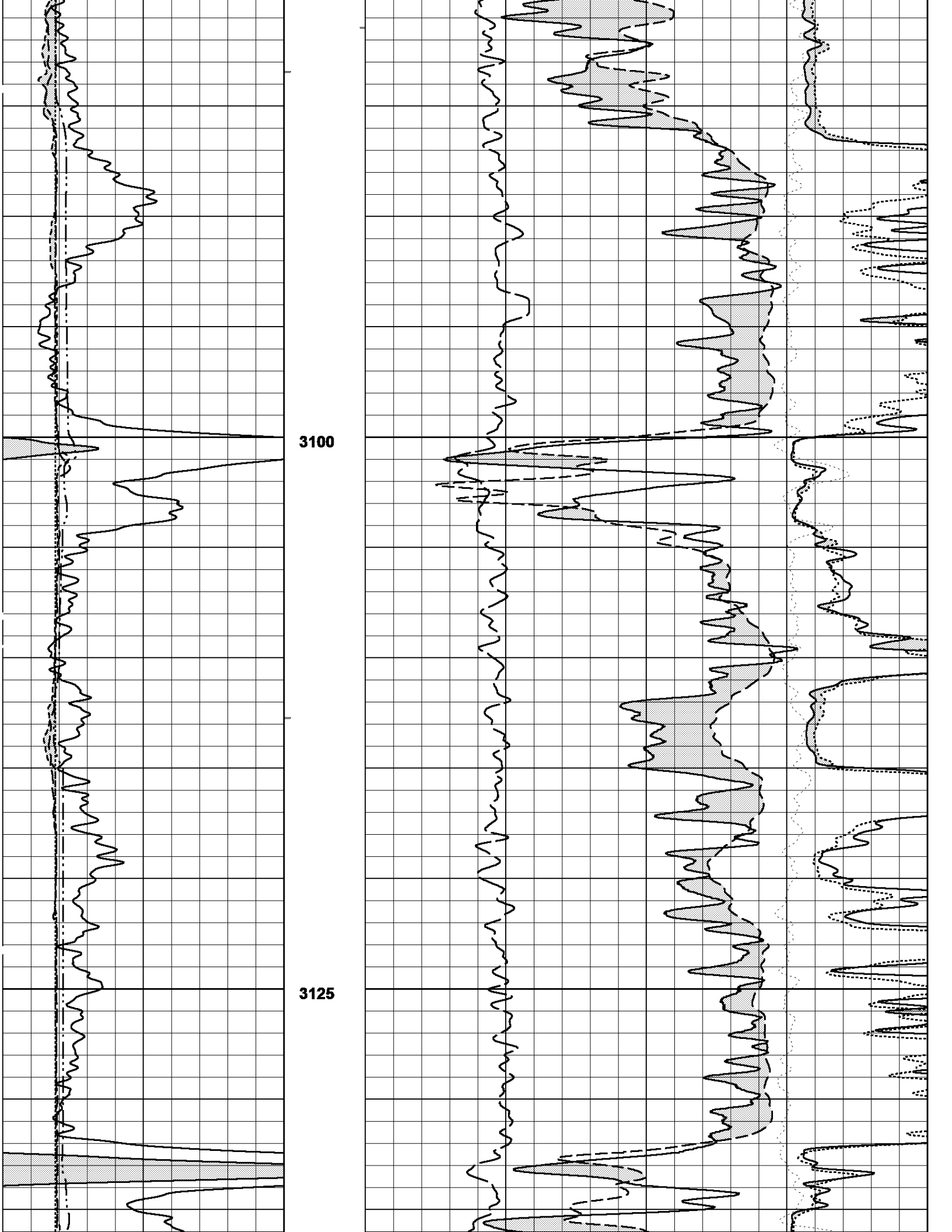
3075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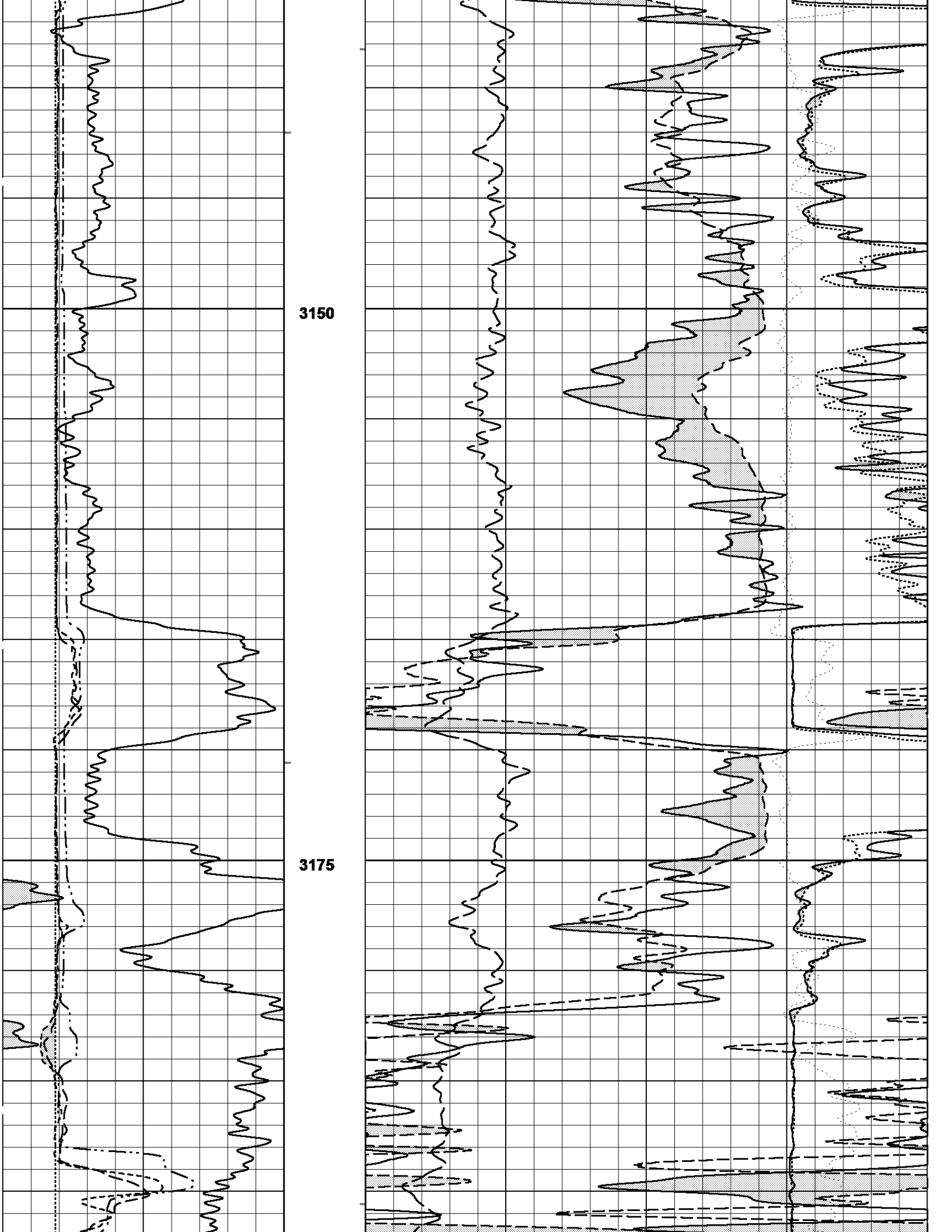
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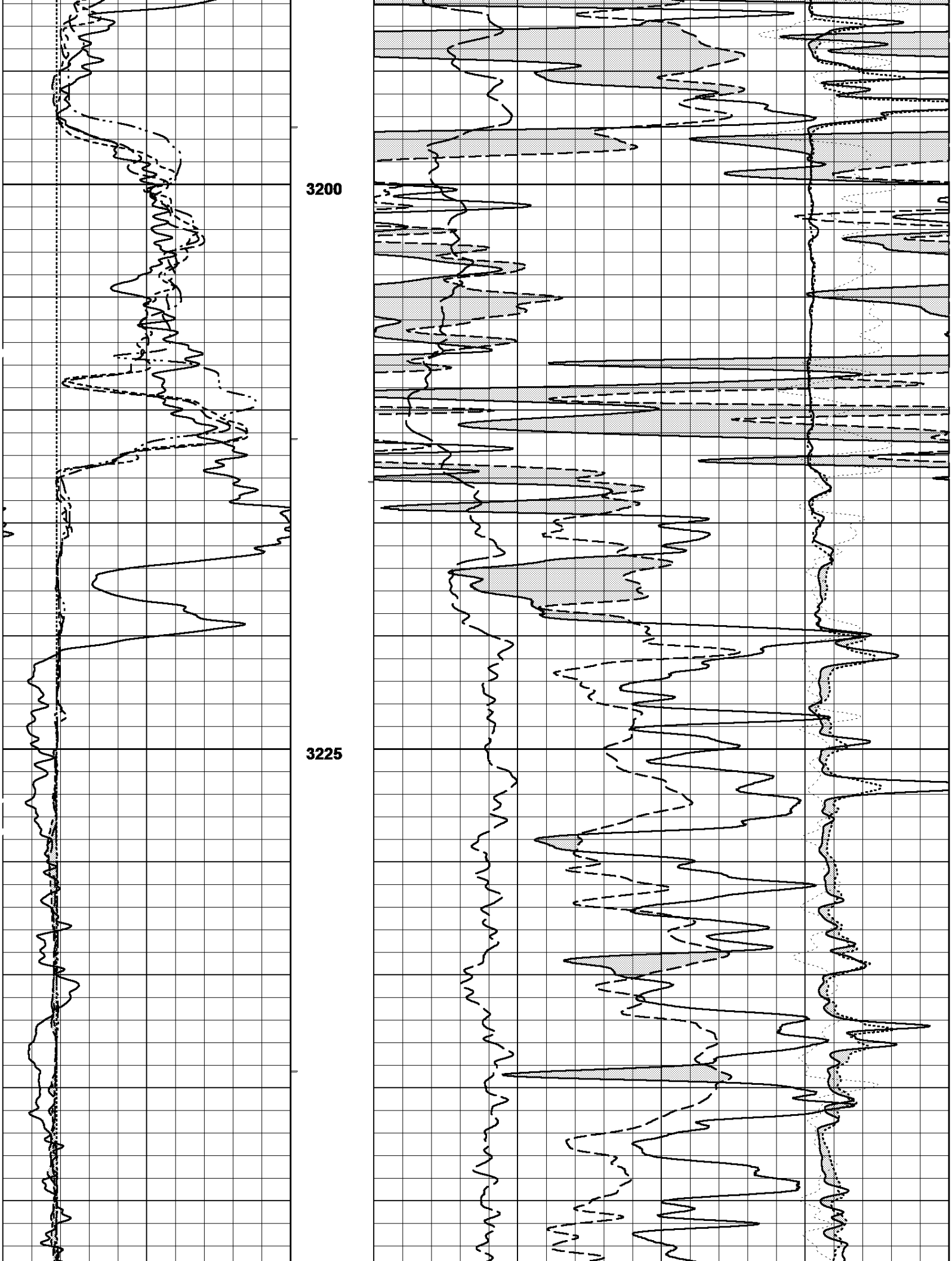
3175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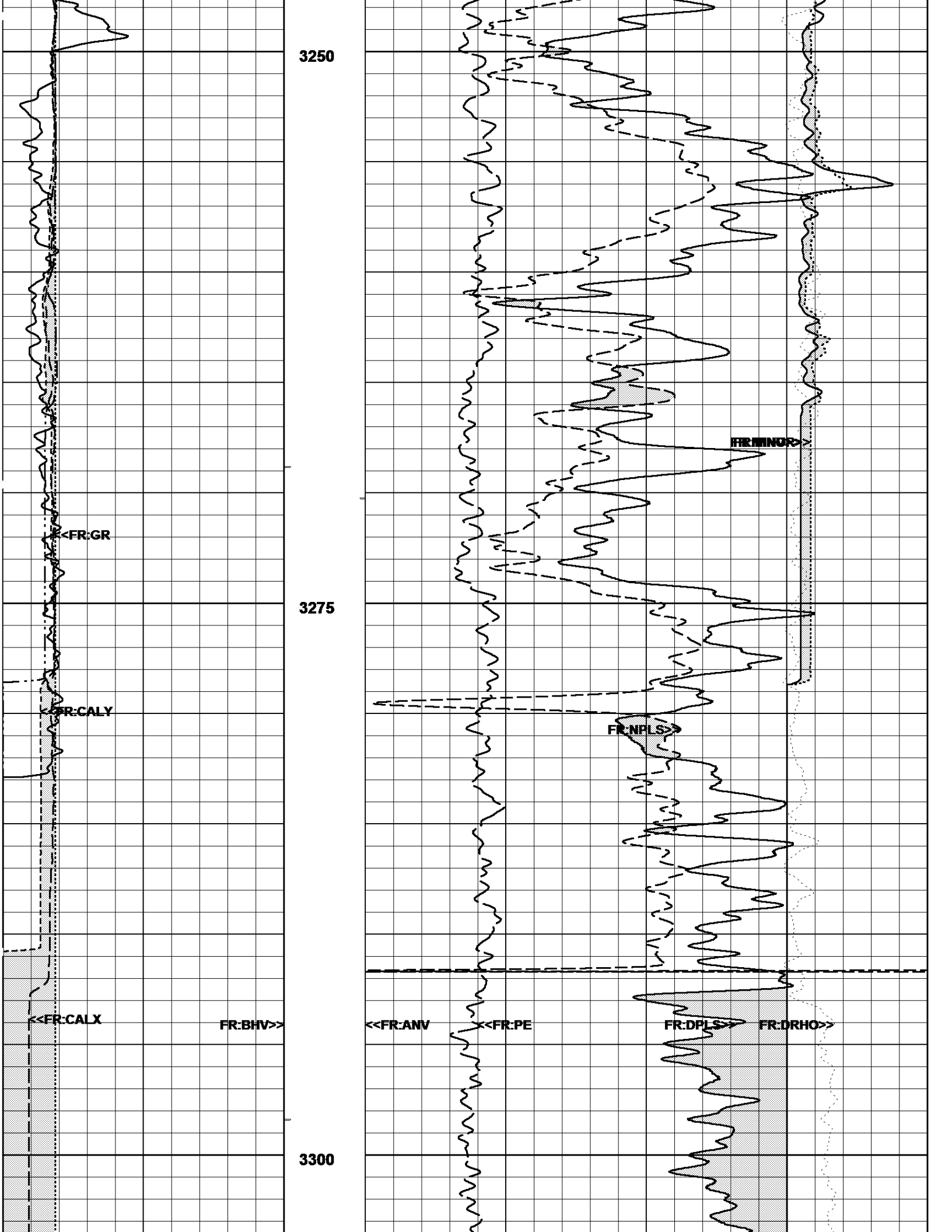
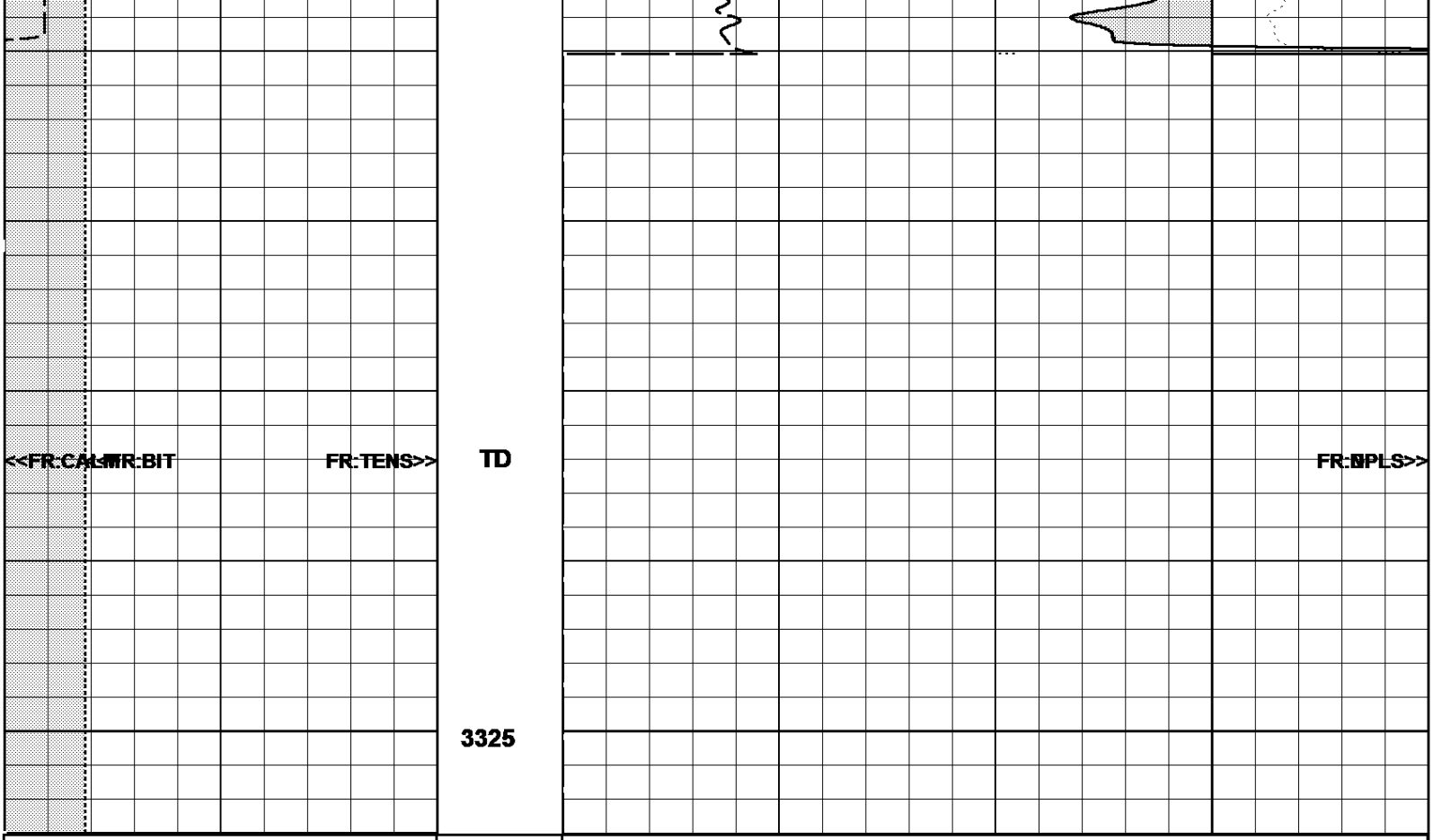
3225


3250
3275
3300
<<FR:GR
<<FR:CALY
<<FR:CALX
FR:BHV>>
FR:MINOR>>
FR:NPLS>>
<<FR:ANV
<<FR:PE
FR:DPLS>>
FR:DRHO>>



Gamma Ray (GR)		
0.	API	150.
X-Caliper (CALX)		
6.	in	16.
Y-Caliper (CALY)		
6.	in	16.
Tension (TENS)		
5000.	Lbs	0.
Bit Size (BIT)		
6.	Ref in	16.
Microlog-Caliper		
6.	in	16.

Neutron-Porosity (NPLS)		
30.	Limestone-Matrix (V/V)	-10.
Density-Porosity (DPLS)		
30.	Limestone-Matrix (V/V)	-10.
Photo Electric (PE)		
0.	Barns/Elect	10.
Delta RHO (DRHO)		
-0.5	g/cc	0.5
Micro-Inverse{1"} (MINV)		
-40.	ohms	40.
Micro-Normal{2"} (MNOR)		
-40.	ohms	40.

05/19/2015
22:57:15 => Start Time

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

Log UP - (VER 11.19)
Start Depth=> 3328.00 Feet

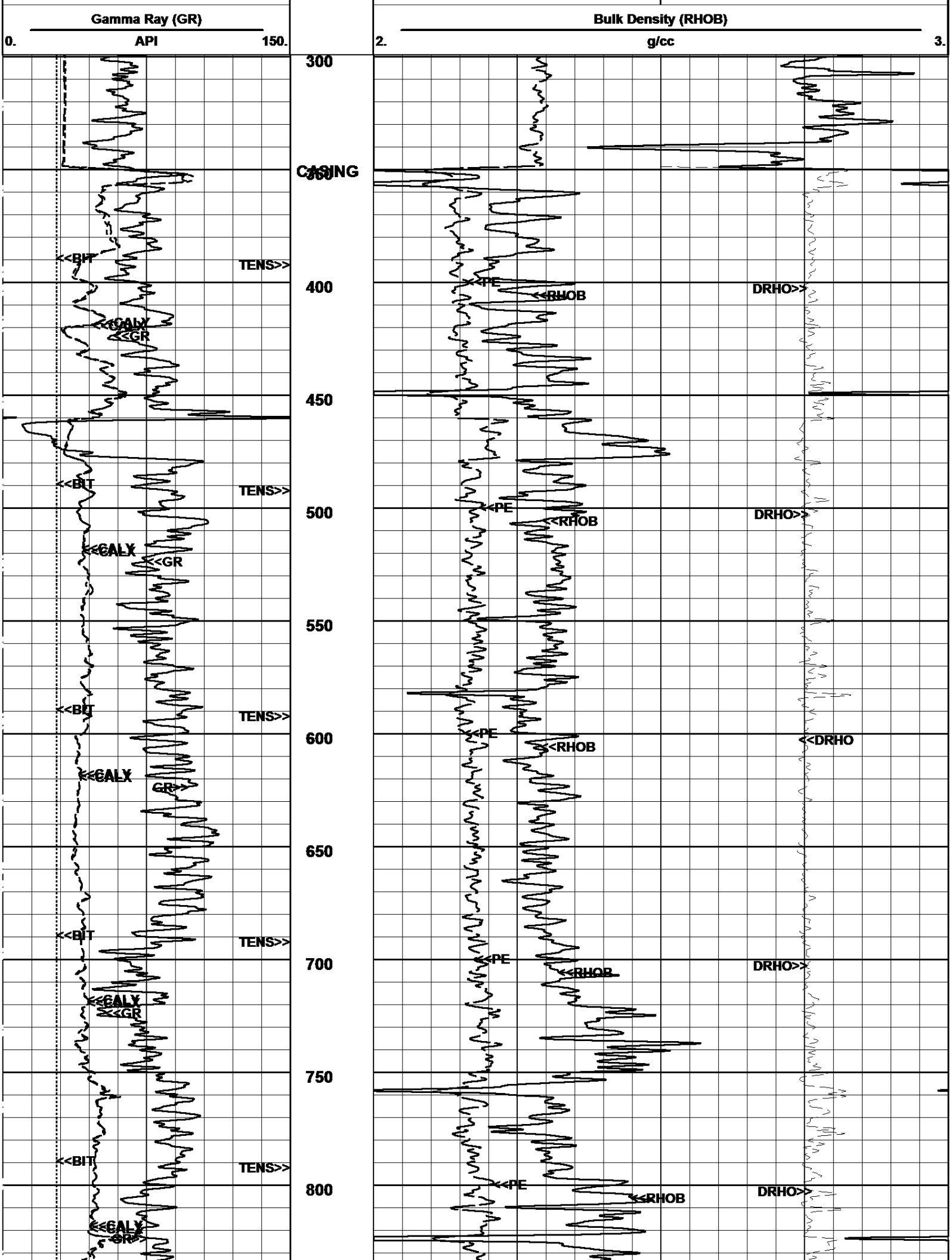
05/20/2015
01:22:29 => End Time

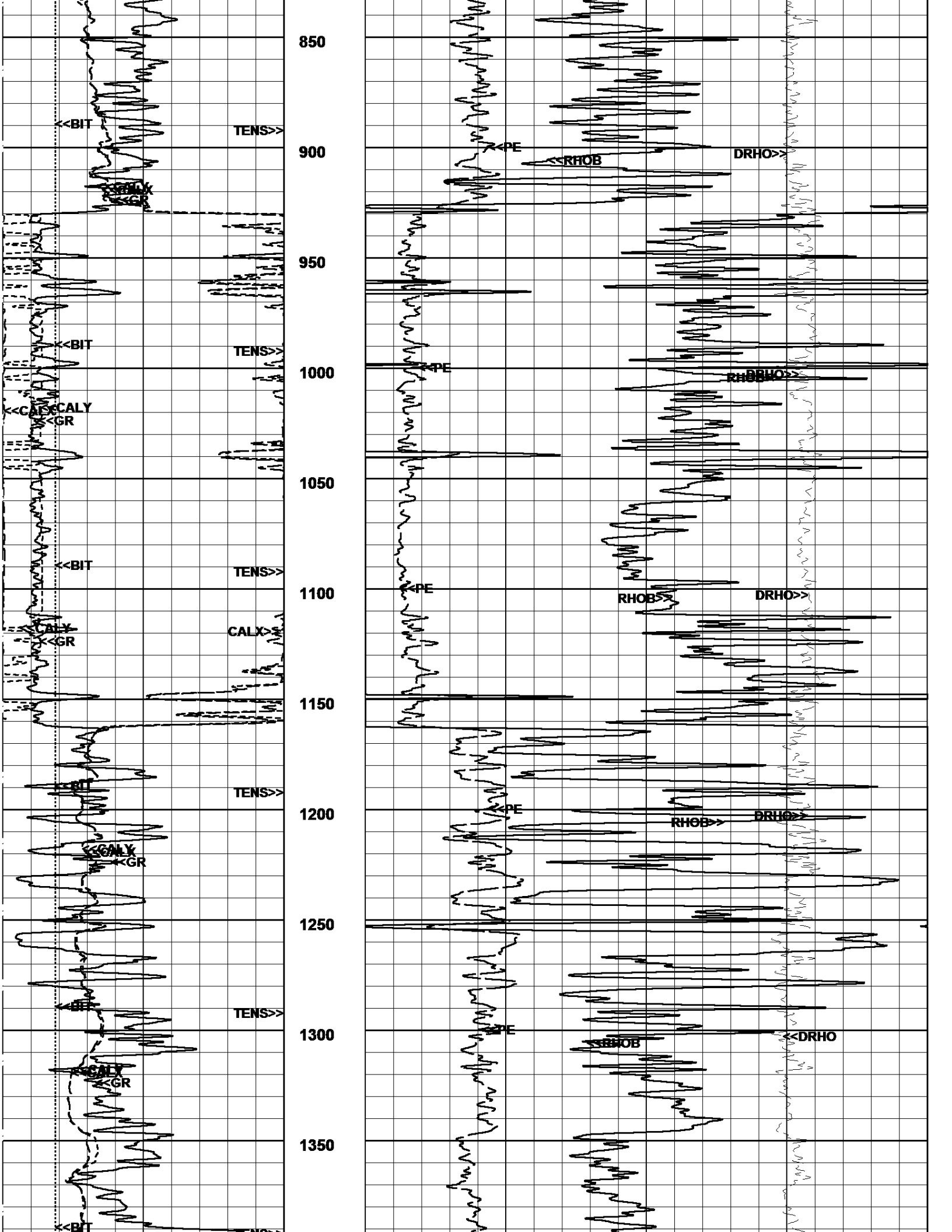
MAIN PASS - RHOB (2"/100Ft)

Log UP - (VER 11.19)
End Depth=> 299.75 Feet

Bit Size (BIT)		
6.	Ref in	16.
Tension (TENS)		
5000.	Lbs	0.
Y-Caliper (CALY)		
6.	in	16.
X-Caliper (CALX)		
6.	in	16.

Photo Electric (PE)		
0.	Barns/Elect	10.
Delta RHO (DRHO)		
-0.5	g/cc	0.5


Gamma Ray (GR)
0.
API
150.
Bulk Density (RHOB)
2.
g/cc
3.
300
350
400
450
500
550
600
650
700
750
800
CASING
<<BIT
TENS>>
<<CALY
<<GR
<<PE
<<RHOB
DRHO>>
<<DRHO


850
900
950
1000
1050
1100
1150
1200
1250
1300
1350
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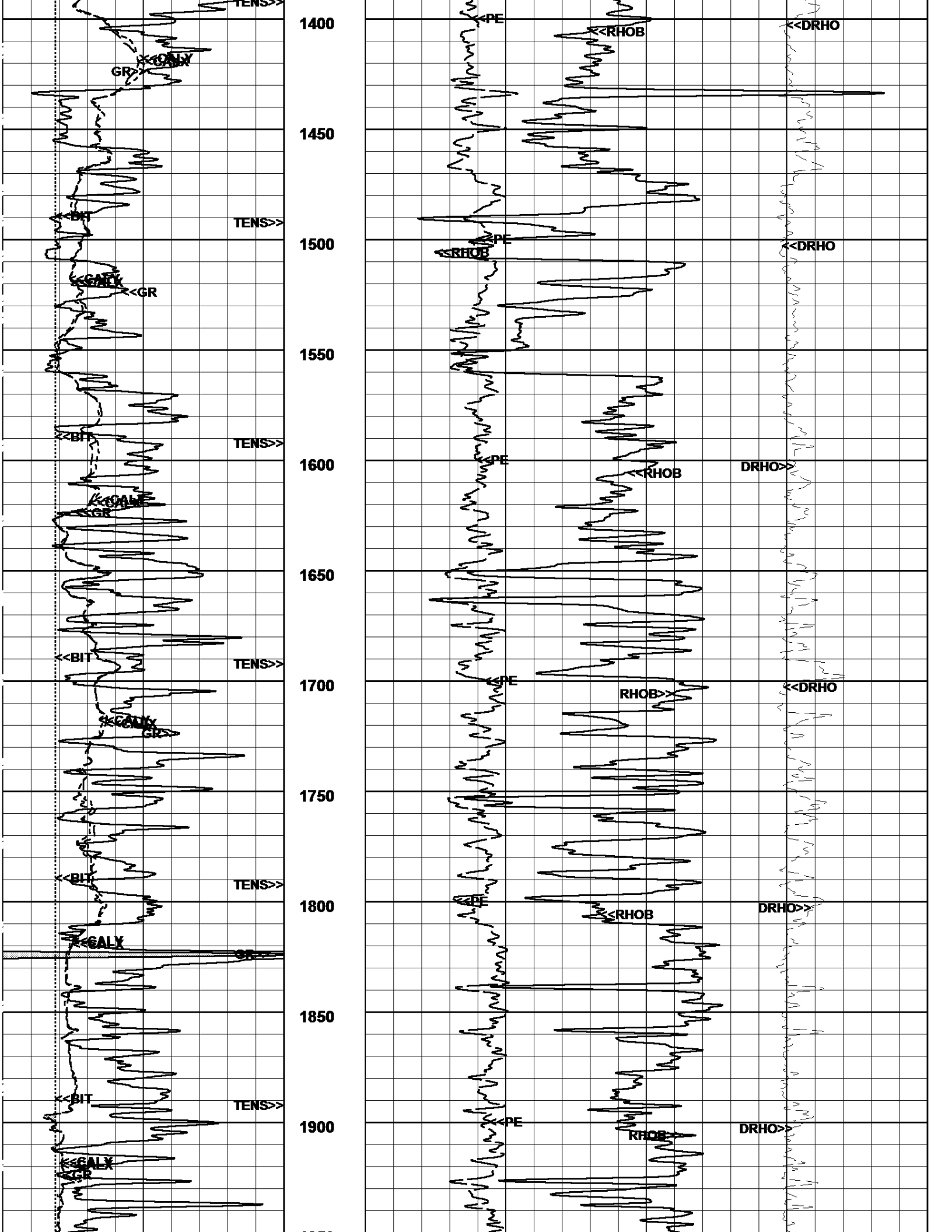
<<CALX
<<CALY
<<GR
<<PE
<<RHOB
DRHO>>
CALX>>
<<DRHO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GR>>
<PE
<<RHOB
<<DRHO
1450
<<BIT
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1500
<<CALX
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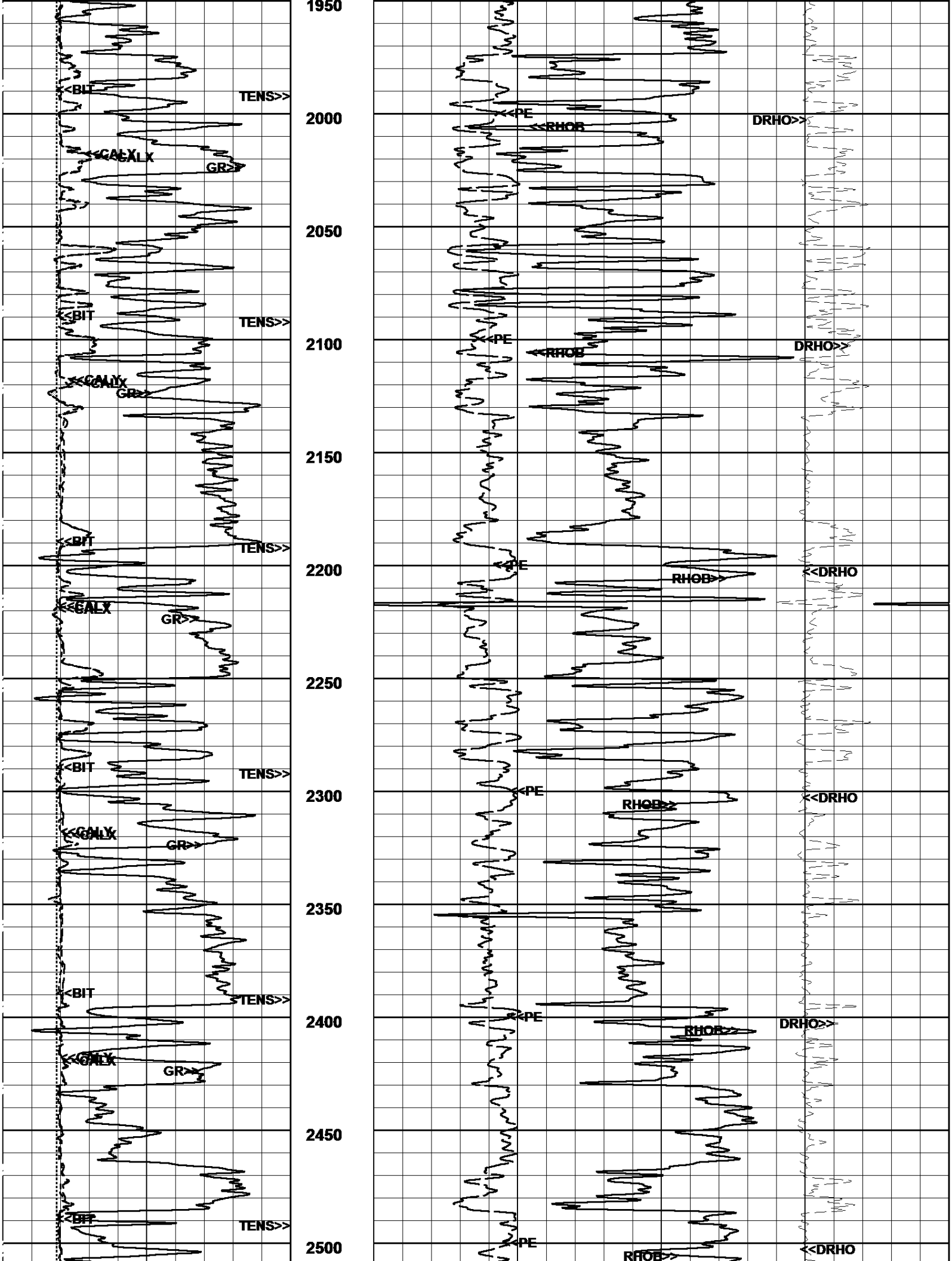
RHOB>>
DRHO>>


1950
2000
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2100
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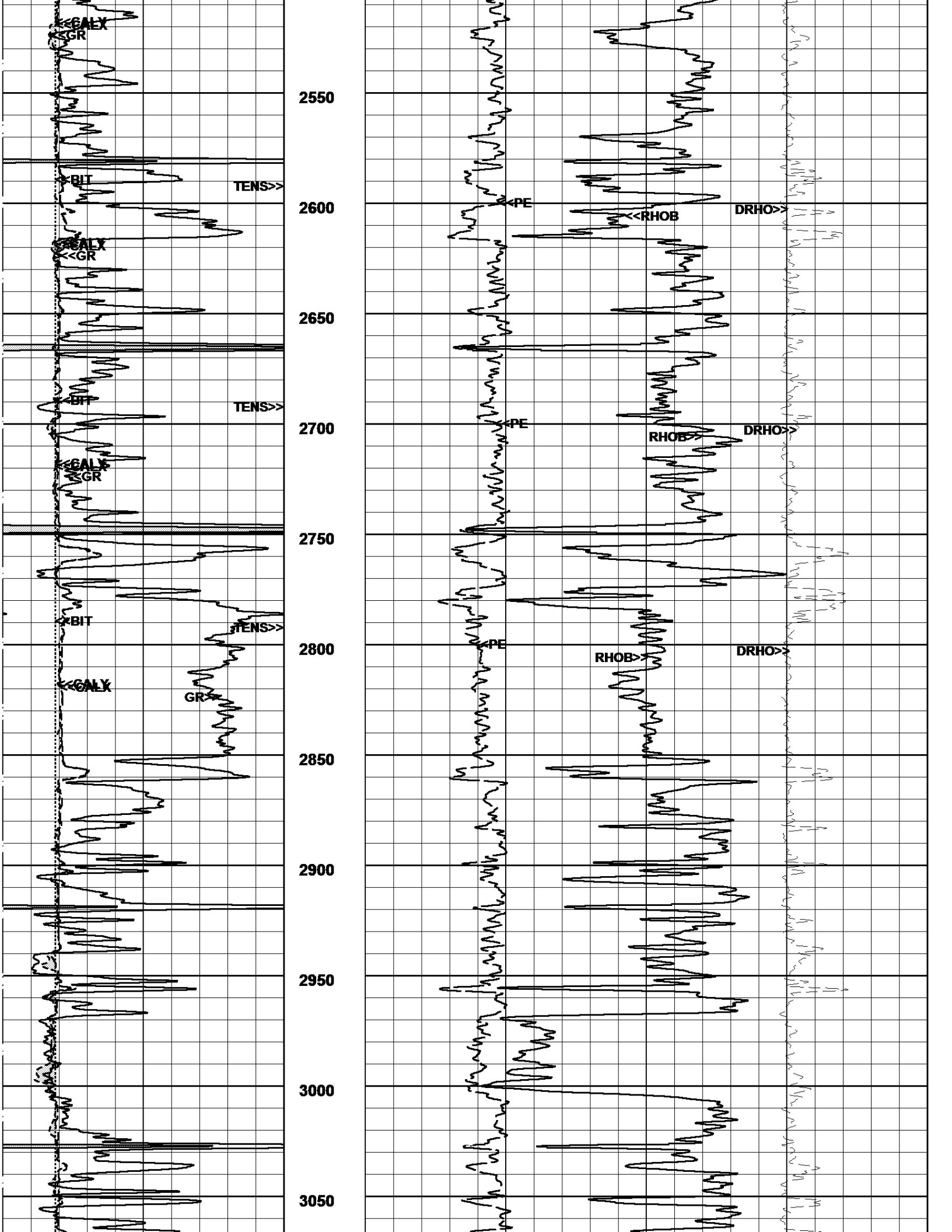
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<<GR
2550
<BIT
TENS>>
<PE
<<RHOB
DRHO>>
2600
<<CALX
<<GR
2650
<BIT
TENS>>
<PE
RHOB>>
DRHO>>
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<<GR
2750
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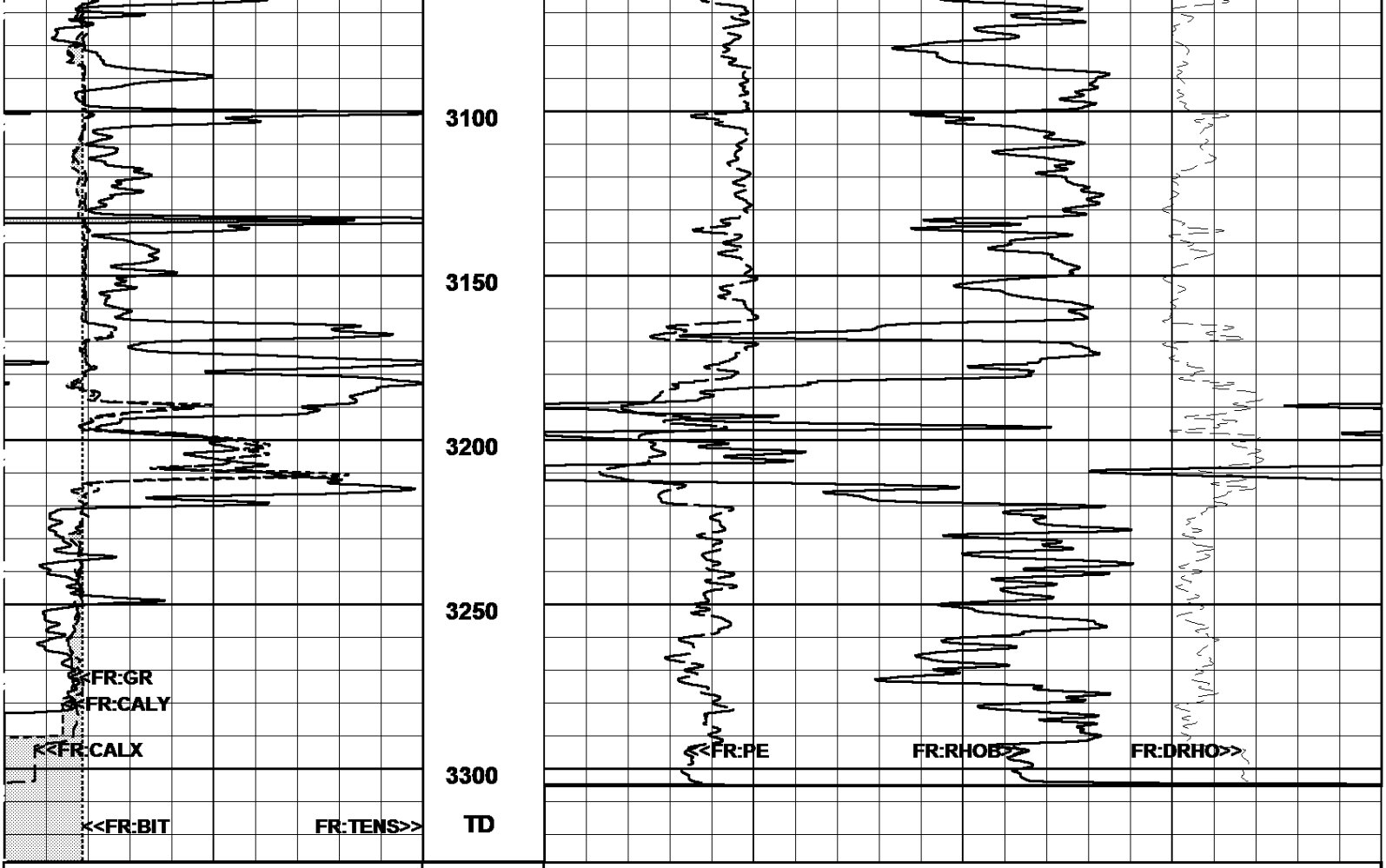
TENS>>
<PE
RHOB>>
DRHO>>
2800
<<CALX
GR
2850
2900
2950
3000
3050



Gamma Ray (GR)		
0.	API	150.
X-Caliper (CALX)		
6.	in	16.
Y-Caliper (CALY)		
6.	in	16.
Tension (TENS)		
5000.	Lbs	0.
Bit Size (BIT)		
6.	Ref in	16.

Bulk Density (RHOB)		
2.	g/cc	3.
Photo Electric (PE)		
0.	Barns/Elect	10.
Delta RHO (DRHO)		
-0.5	g/cc	0.5

05/19/2015
23:39:27 => Start Time

MAIN PASS - RHOB (2"/100Ft)

Log UP - (VER 11.19)
Start Depth=> 3328.00 Feet

Litho-Density/PE Calibrations

TOOL TYPE	LFDC/Pe	SOURCE TYPE	CESIUM 137	SOURCE STRGTH	2 CURIE
SERIAL NUM	RL4101	SOURCE NUM			

MASTER BLOCK CALIBRATIONS

	W1(cps)	W2(cps)	W3(cps)	W4(cps)	SS	UNITS	CALIBRATION DATE	CALIBRATION TIME
ALUMINUM	4302.143	3706.407	1881.395	3.929	3331.6543	2.523(g/cc)	M/D/Y> 5/18/2015	H:M:S> 15:54:4
MAGNESIUM	12826.128	10859.213	4834.089	4.006	4949.0817	1.679(g/cc)		
BACKGROUND	1399.682	1235.921	854.160	3.775	4.7151			

SAND	12821.058	10856.096	4840.258	4.051		1.739(PE)		
IRON	3848.667	3355.053	1759.629	3.753		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	SOURCE STRGTH	20 CURIE
SERIAL NUM	RN2007	SOURCE NUM	5929NE		

MASTER TANK CALIBRATIONS

		NEAR(cps)	FAR(cps)	RATIO	K VALUE	CALIBRATION DATE	CALIBRATION TIME
LOW PHI	3.150			0.6746	1.0268	M/D/Y> 4/10/2015	H:M:S> 13:48:43
MED PHI	19.130			1.1557	1.0268		
HIGH PHI	31.300			1.3854	1.0269		
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	35.381 - raw	215.417 - raw	0.972 - gain 0.000 - off	M/D/Y> 4/7/2015	H:M:S> 11:44:55

X CALIPER

SERIAL NUM	RL4101

MASTER CALIBRATIONS

	ZeroVal: 6.000 In	CalVal: 10.000 In	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	2713.692 - raw	4888.636 - raw	0.002 - gain 1.009 - off	M/D/Y> 5/18/2015	H:M:S> 16:14:55

Y CALIPER CALIBRATIONS

SERIAL NUM	RN2007

MASTER CALIBRATIONS					
	ZeroVal: 6.000 in	CalVal: 10.000 in	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	772.886 - raw	1456.720 - raw	0.006 - gain 1.479 - off	M/D/Y> 4/10/2015	H:M:S> 13:57:43

MICRO INVERSE CALIBRATIONS

SERIAL NUM	RM8007

MASTER CALIBRATIONS					
	ZeroVal: 0.200 ohmm	CalVal: 10.000 ohmm	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	14.853 - raw	278.493 - raw	0.037 - gain -0.352 - off	M/D/Y> 4/7/2015	H:M:S> 11:0:54

MICRO NORMAL CALIBRATIONS

SERIAL NUM	RM8007

MASTER CALIBRATIONS					
	ZeroVal: 0.200 ohmm	CalVal: 10.000 ohmm	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	28.036 - raw	367.563 - raw	0.029 - gain -0.609 - off	M/D/Y> 4/7/2015	H:M:S> 11:5:56

MICRO CALIPER CALIBRATIONS

SERIAL NUM	RM8007

MASTER CALIBRATIONS					
	ZeroVal: 6.000 in	CalVal: 10.000 in	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	2626.944 - raw	4610.595 - raw	0.002 - gain 0.703 - off	M/D/Y> 4/7/2015	H:M:S> 11:13:19

Company	CMX INCORPORATED
Well	BUSHTON #1-20
Field	STOLTENBERG
County	ELLSWORTH
State	KANSAS

RECON

COMPENSATED NEUTRON
LITHOLOGY DENSITY
GAMMA RAY X-Y CALIPER
MICROLOG