

Company
Well
Field
County
State

AGRICULTURAL ENERGY SERVICES, INC.
HOPE 1-23
KISMET
SEWARD
KANSAS

RECCON

**COMPENSATED NEUTRON
LITHOLOGY DENSITY
GAMMA RAY XY-CALIPER
MICROLOG**

SEC	TWP	RGE	OTHER SERVICES:
23	33S	31W	DIL EULLWAVE SQUIK
Location: 990' FNL & 990' FWL			SW NE NE
SURF. SAME	API #:	ELEVATIONS K.B. 2756.1 G.L. 2744.1 D.F. N/A	
Permanent Datum	Ground Level	Elevation: 2744.1	
Log Measured From	Kelly Bushing	Latitude: 37.1673543814	
Drilling Measured From	Kelly Bushing	Longitude: -100.657020037	

Date	08-AUG-2021		
Run No.	ONE		
TD Driller	5820	ft.	ft.
TD RECON	5820	ft.	ft.
Bot Logged Interval	5820	ft.	ft.
Top Logged Interval	50	ft.	ft.
Casing Depth Driller	1698	in.	② 8.625
Casing Depth RECON	1698	in.	② 8.625
Bit Size	7.875	in.	in.
Drilling Fluid Type	GEL/CHEM		
Density	Viscosity	60(s)	
Fluid Loss	PH	10	
Source Of Sample	Flowline		
RM @ Measured Temp	4.76	Ohmm	② 75°F
RMF @ Measured Temp	3.57	Ohmm	② 75°F
RMC @ Measured Temp	7.15	Ohmm	② 75°F
RM @ MRT	2.89	Ohmm	② 128°F
Max Recorded Temp	128°F		
Time Drilling Stopped	07-AUG-2021	18:00	
Time Circulation Stopped	08-AUG-2021	00:00	
Time Logger On Bottom	08-AUG-2021	06:00	
Unit Num	Location	ALVARADO, TX	
Recorded By	A. NGUYEN		
Witnessed By	MR. JASON SCHMIDT		

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 Negligence 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 DRILLING

GENERAL REMARKS SECTION	
FIRST RUN IN THE HOLE CNL AND LDT LOGGED IN A LIMESTONE MATRIX CNL/LDT LOGGED MATRIX: 2.71 g/cc. CHLORIDES:	DISPATCH 24 HR: 682-628-4841
THANK YOU FOR USING RECON RETROTECHNOLOGIES INC	CREW: TORTEGA, N MOUGHANI

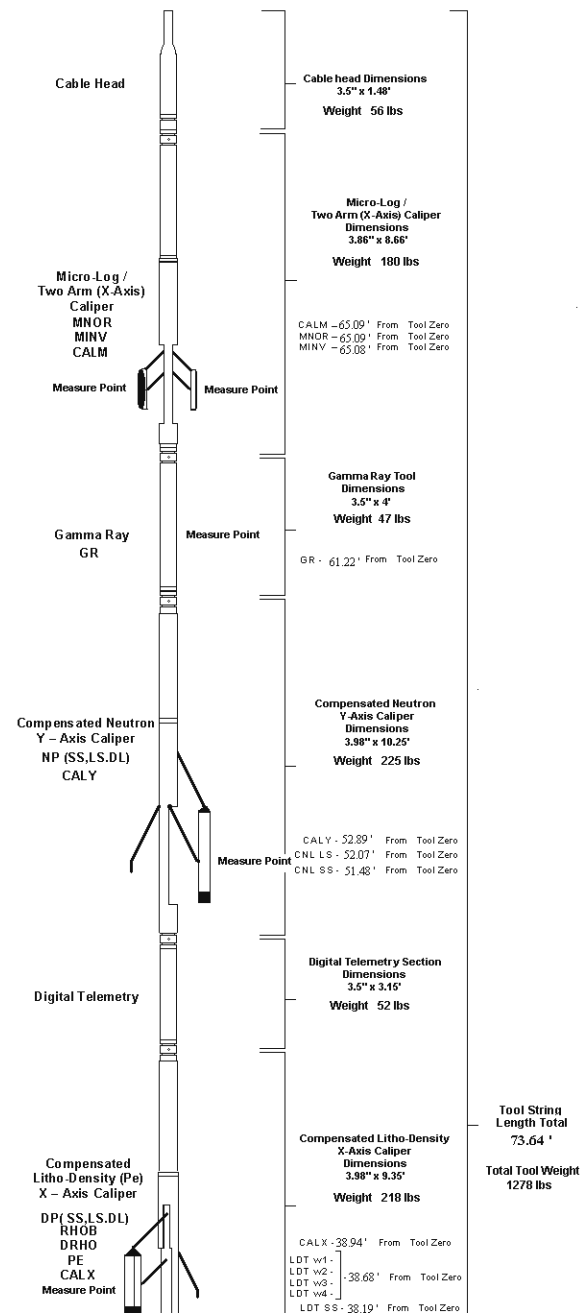
CEMENT VOLUME CALCULATIONS SUMMARY

Tool Type	LDT-CNT	Caliper Type X-Y CALIPERS		
Tool Serial #	RN2XXX / RL4XXX			
	Borehole Total	Annular Volume with Casing	From Depth (MKb)	To Depth (MKb)
VOLUMES	XXX Cubic Feet	XXX Cubic Feet	SCG	TD

CASING INFORMATION

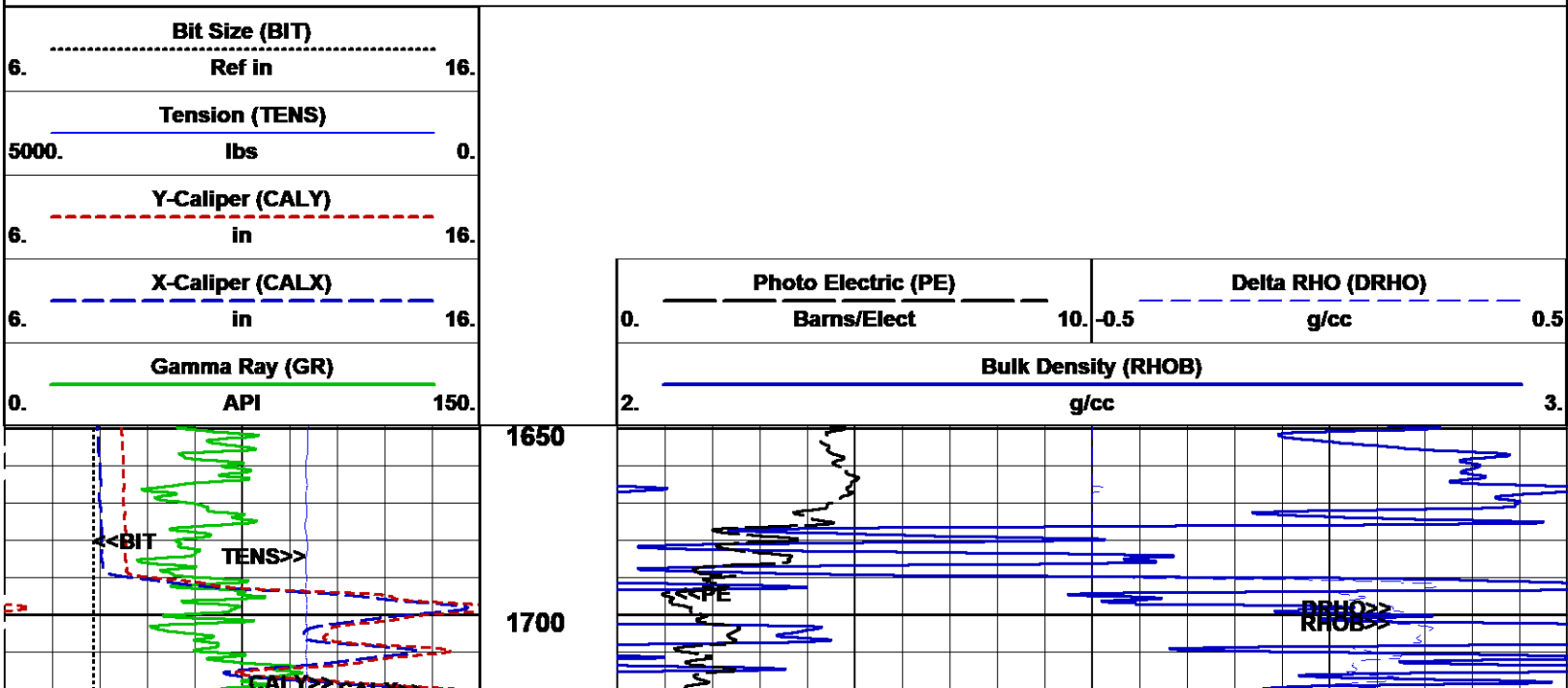
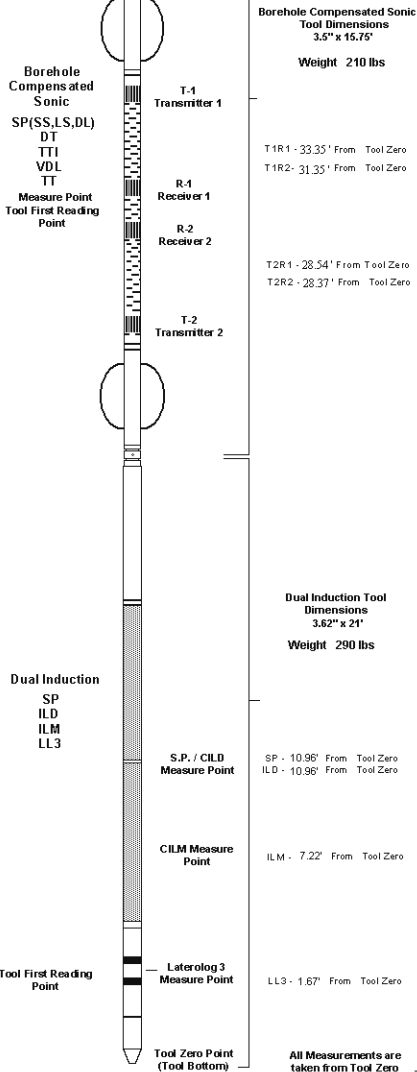
	SIZE (in)	GRADE	WEIGHT (lbs/ft)	ID (in)	TOP DEPTH	BOT DEPTH
SURFACE CASING	8.625	N/A	N/A	N/A	Surface	1698
INTERMEDIATE CASING	N/A	N/A	N/A	N/A	N/A	N/A
PRODUCTION CASING	5.5	N/A	N/A	N/A	Surface	TD

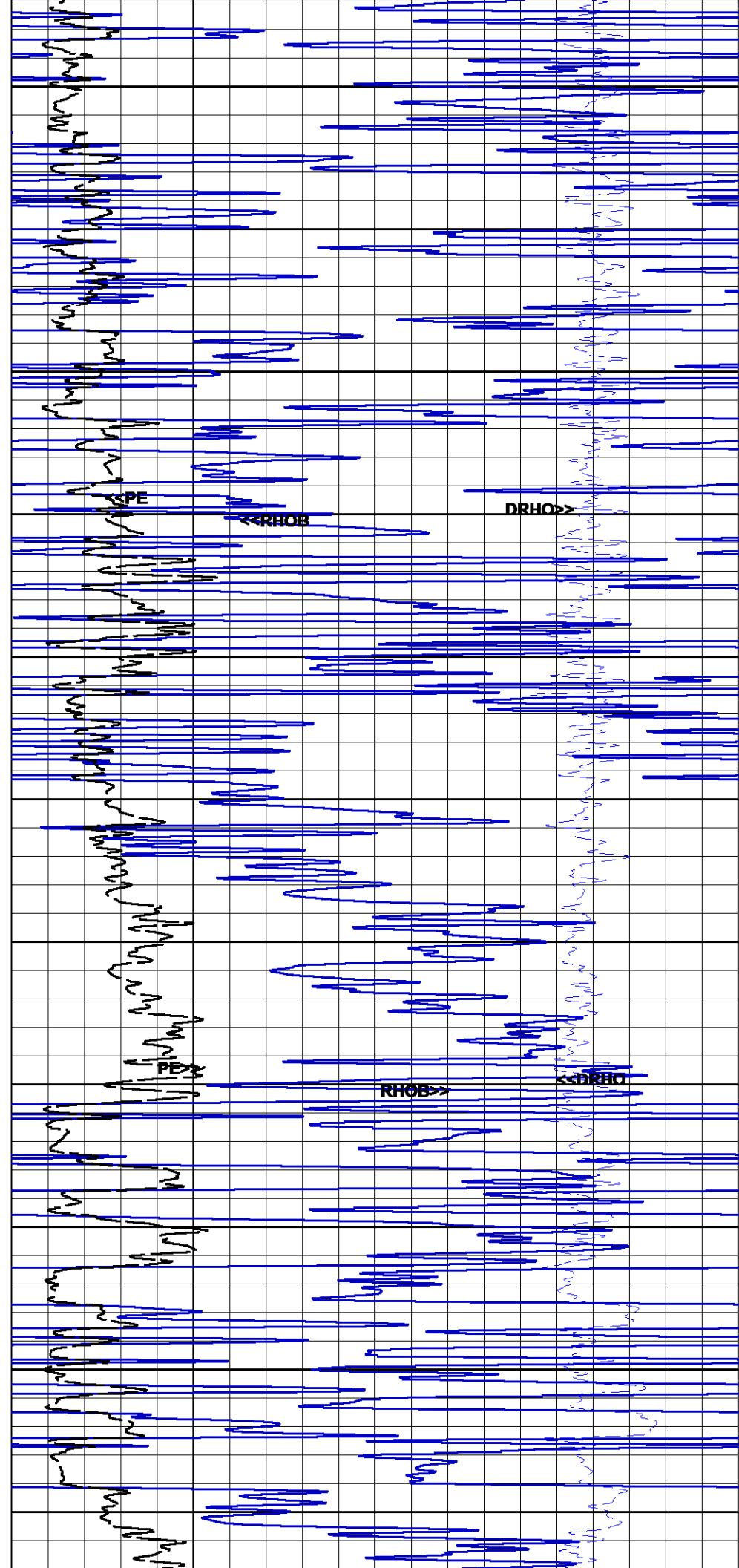
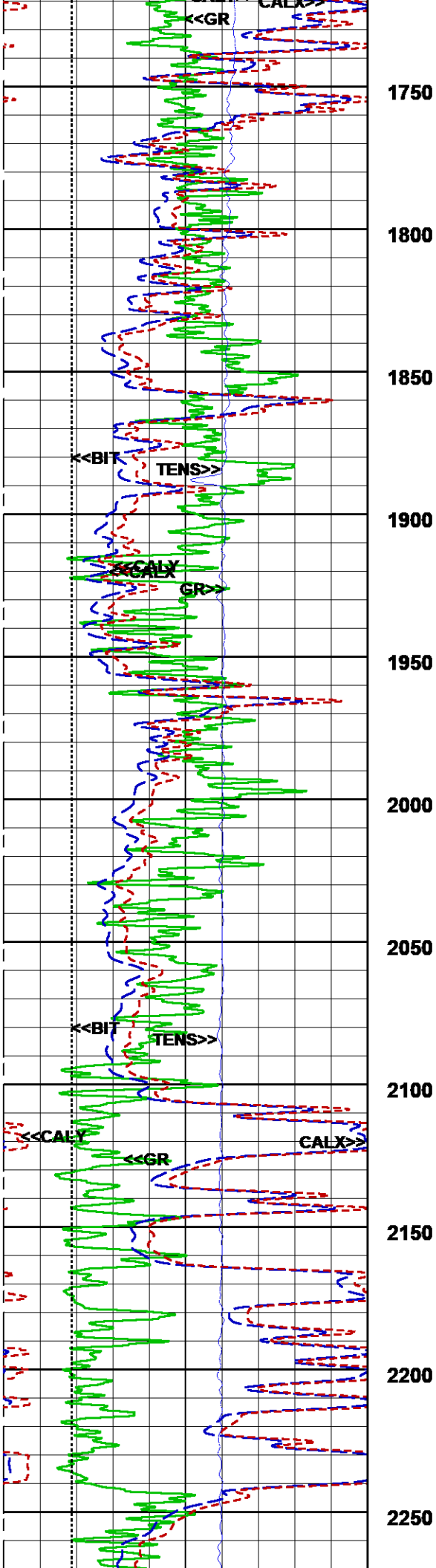
DUAL INDUCTION - SP / BHC SONIC /
 GAMMA RAY / LITHO-DENSITY / X CALIPER
 COMPENSATED NEUTRON / Y-CALIPER
 MICRO-LOG / M-CALIPER

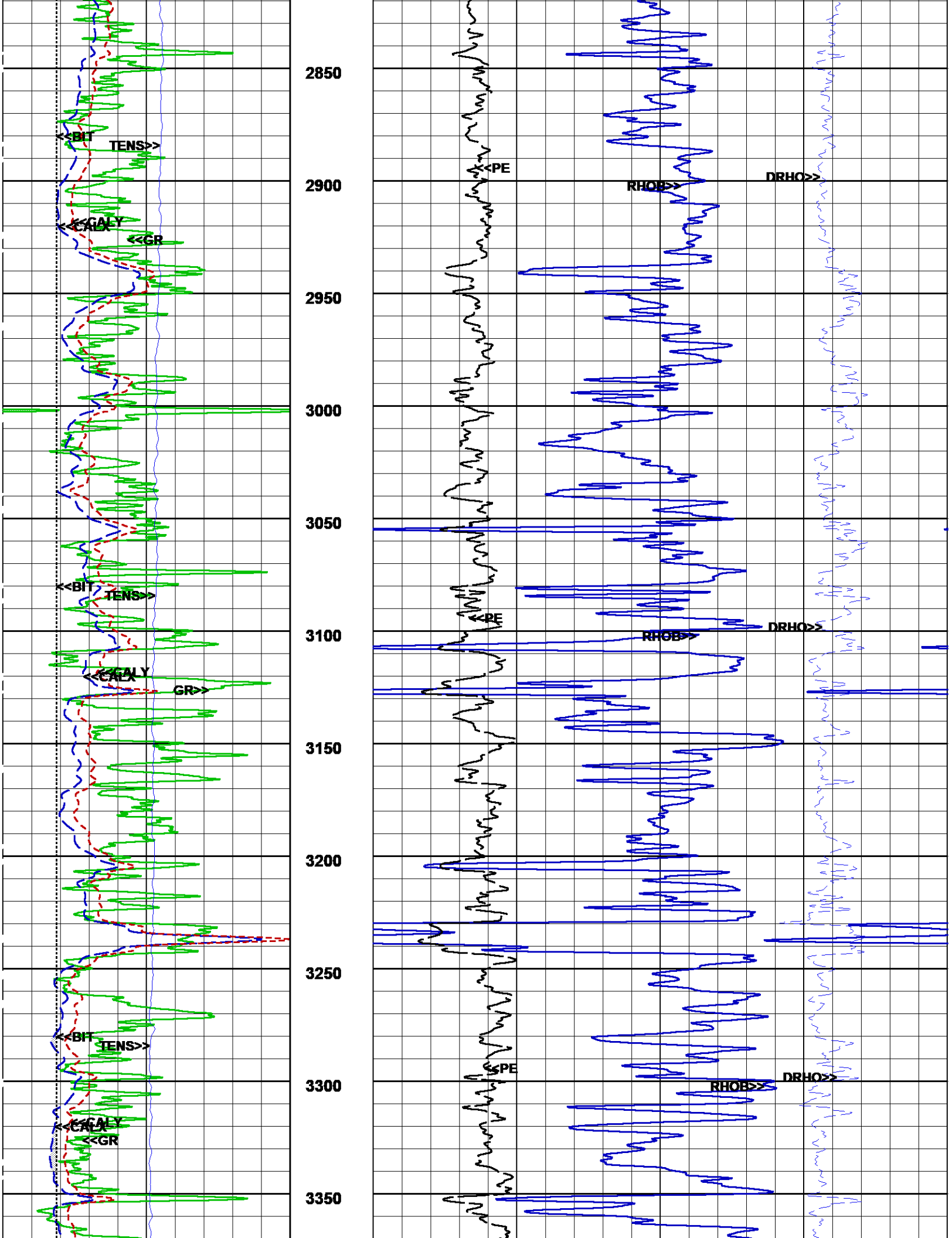


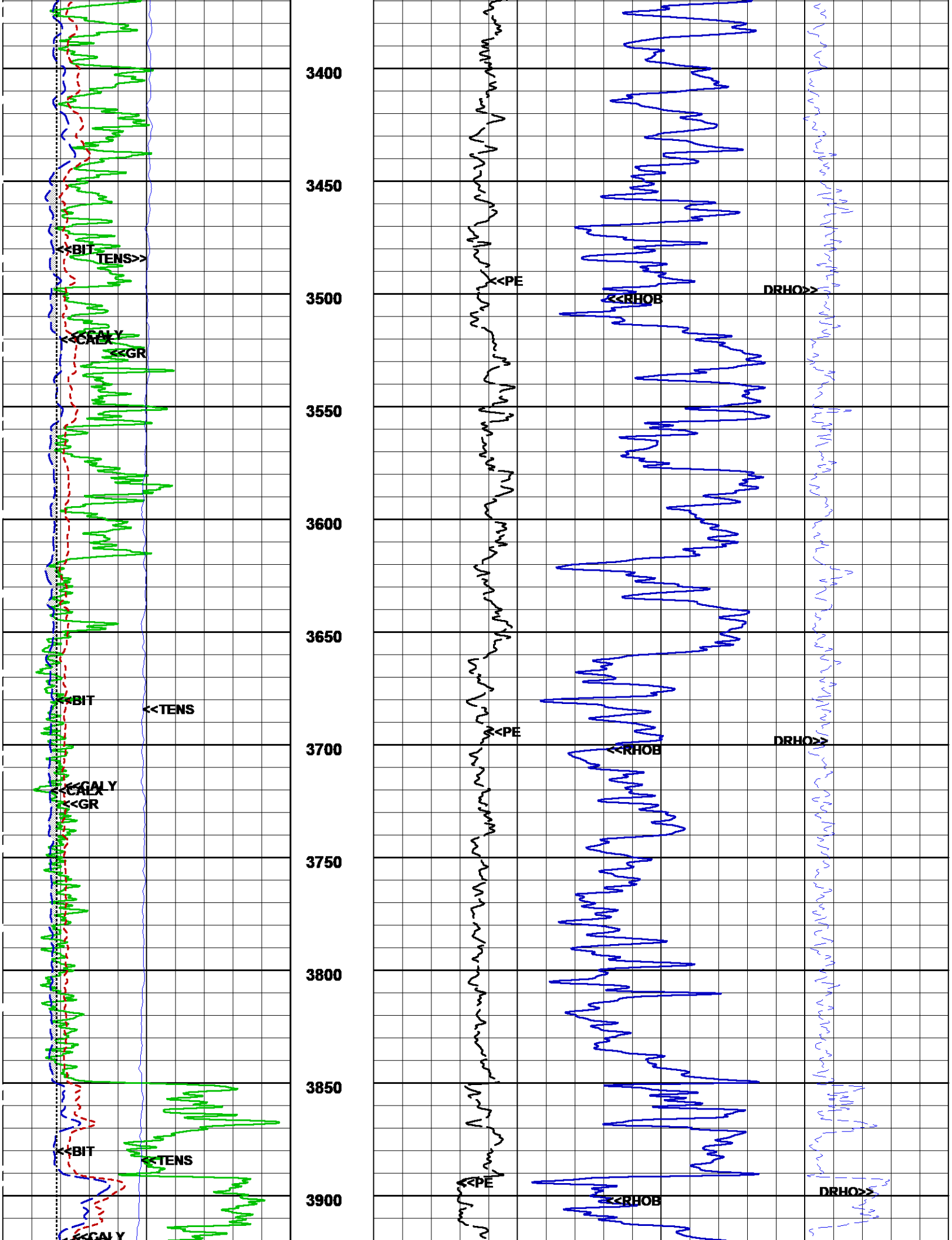
Tool String
 Length Total
73.64'
 Total Tool Weight
1278 lbs

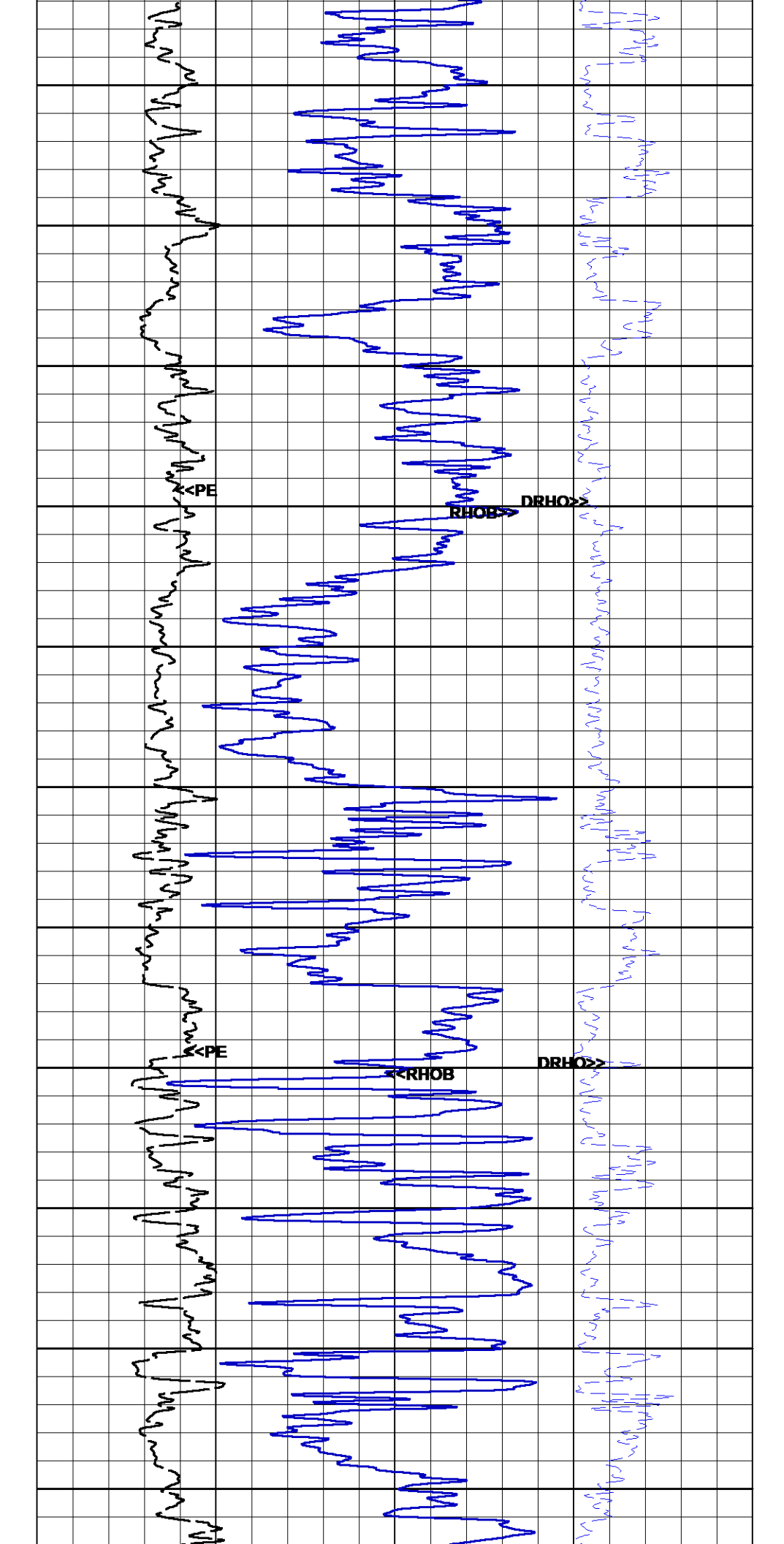
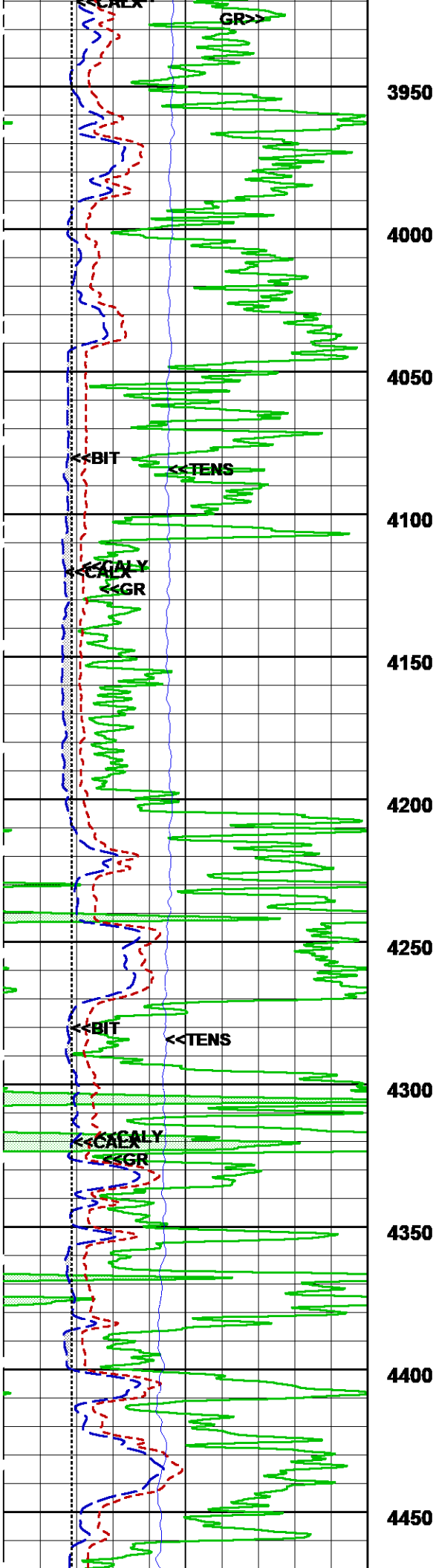
CALX - 38.94' From Tool Zero
 LDT w1 -
 LDT w2 - 38.68' From Tool Zero
 LDT w3 -
 LDT w4 -
 LDT SS - 38.19' From Tool Zero

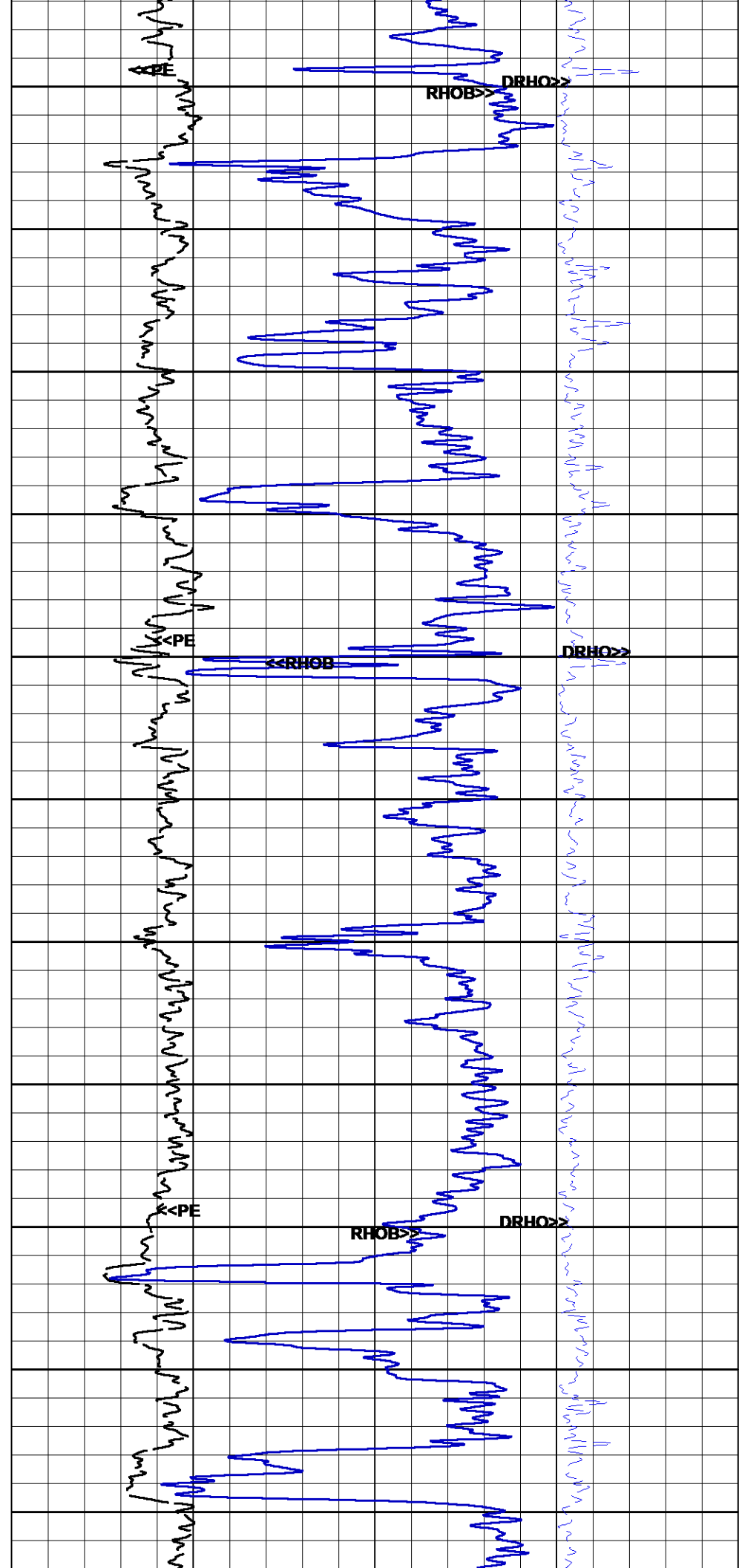
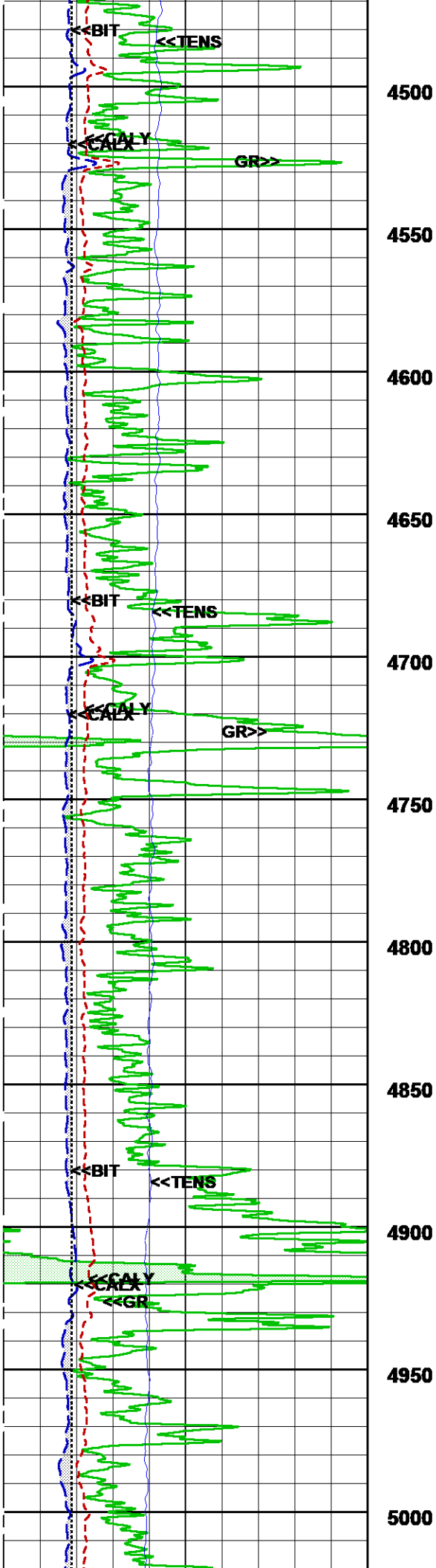


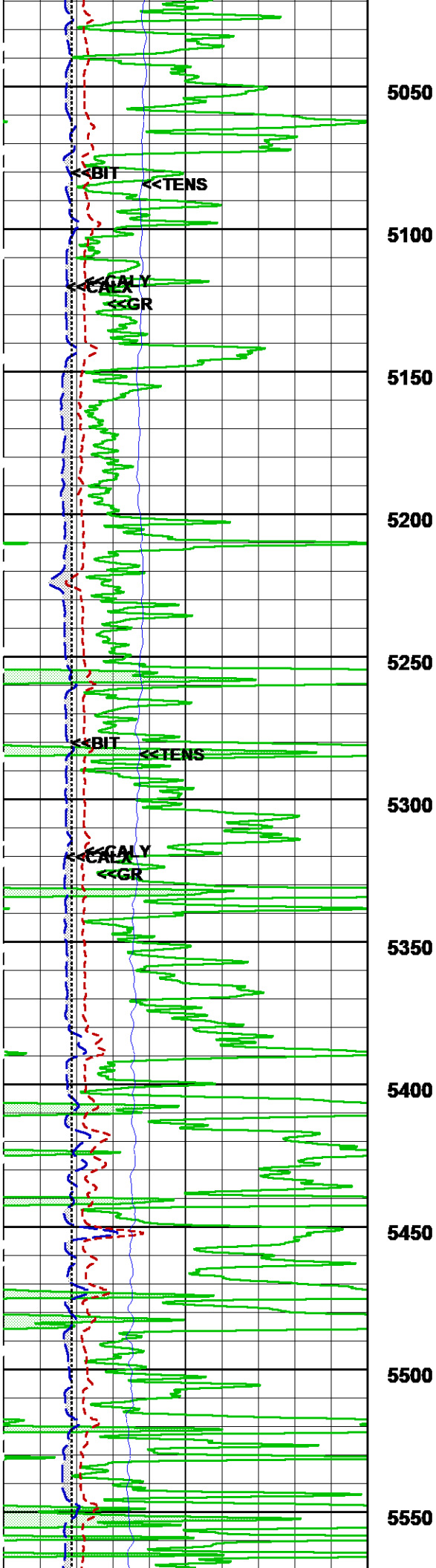




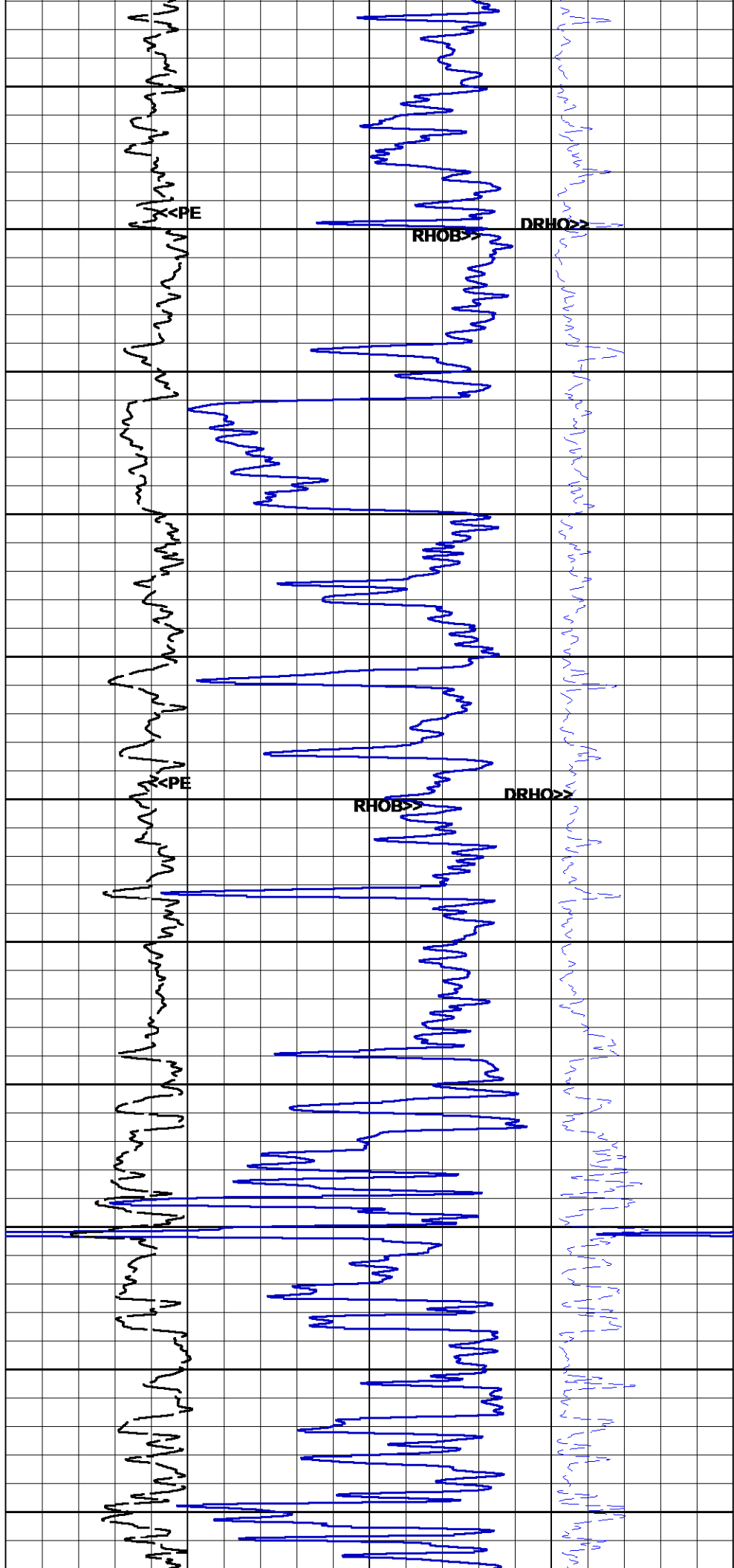




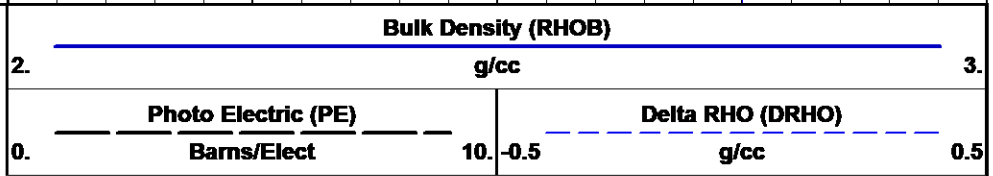
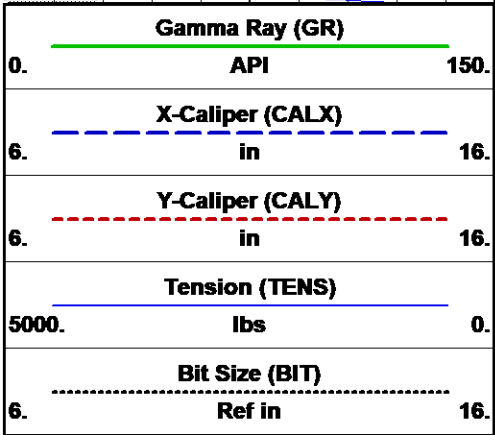
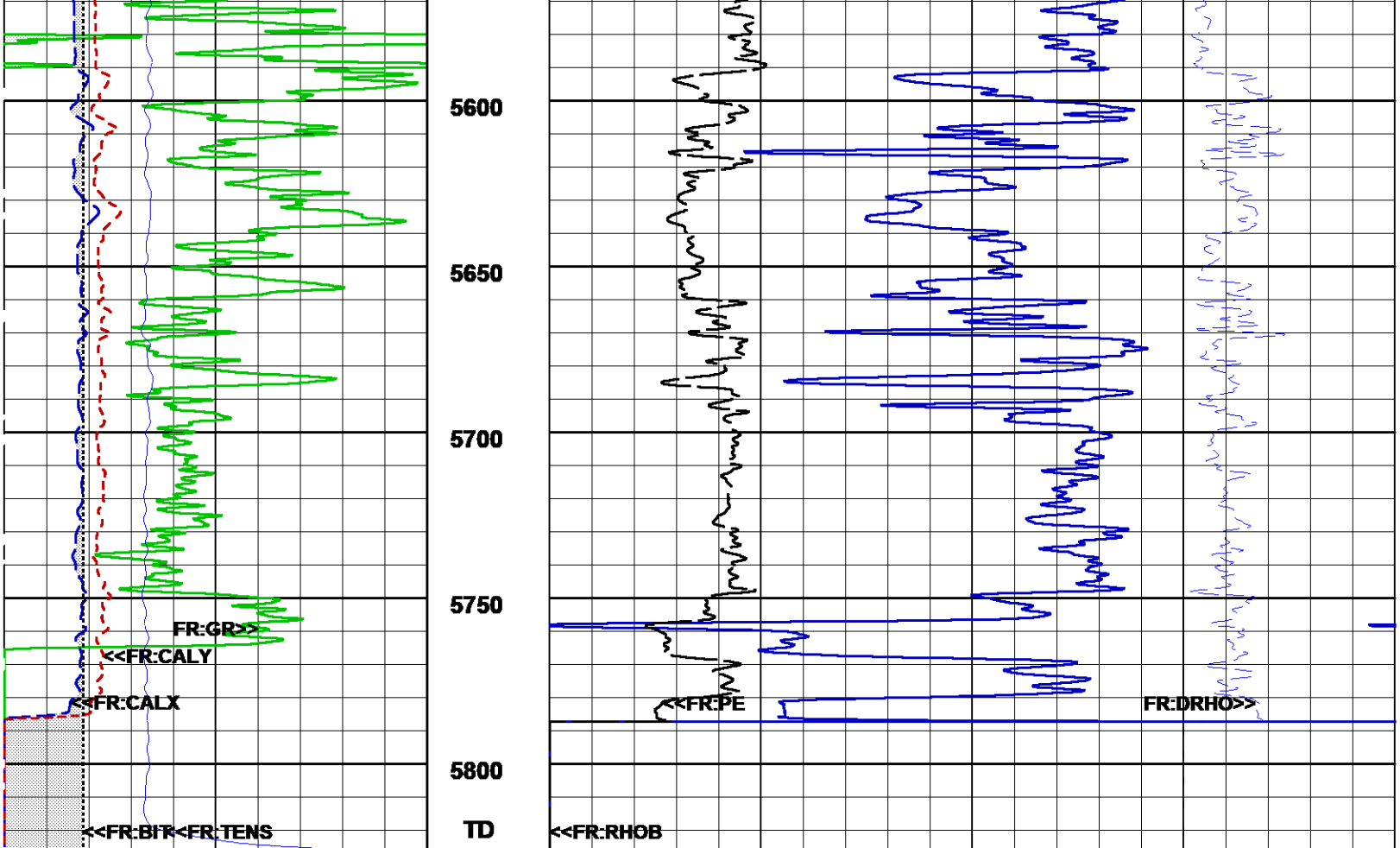




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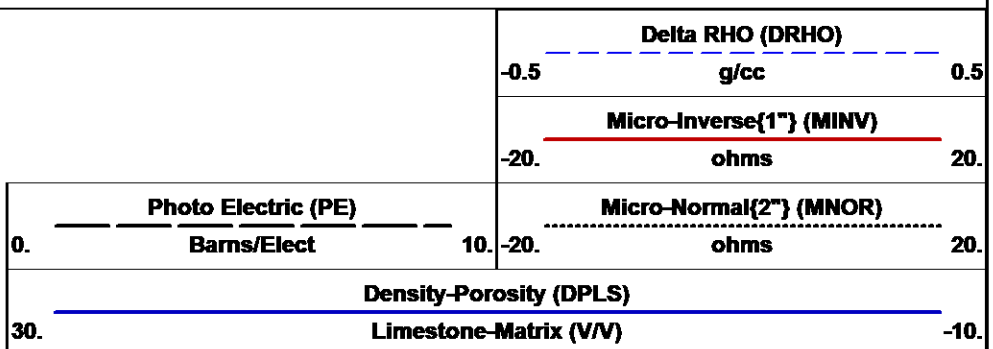
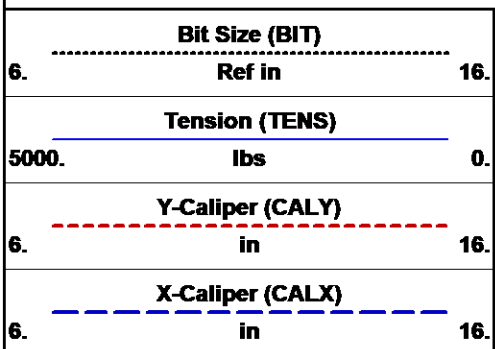


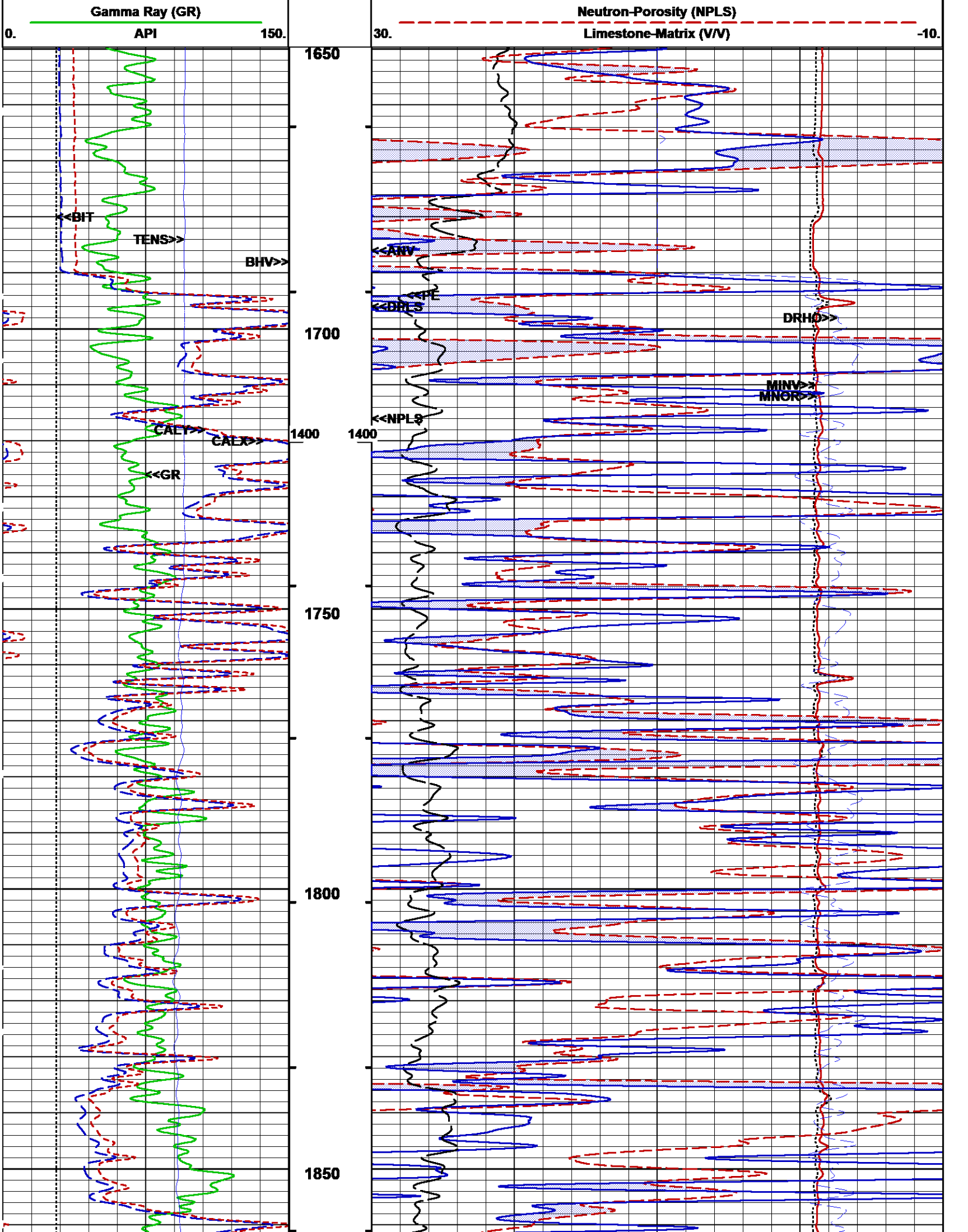
$\langle \text{PE} \rangle$
$\langle \text{RHOBS} \rangle$ $\langle \text{DRHO} \rangle$
$\langle \text{PE} \rangle$ $\langle \text{RHOBS} \rangle$ $\langle \text{DRHO} \rangle$

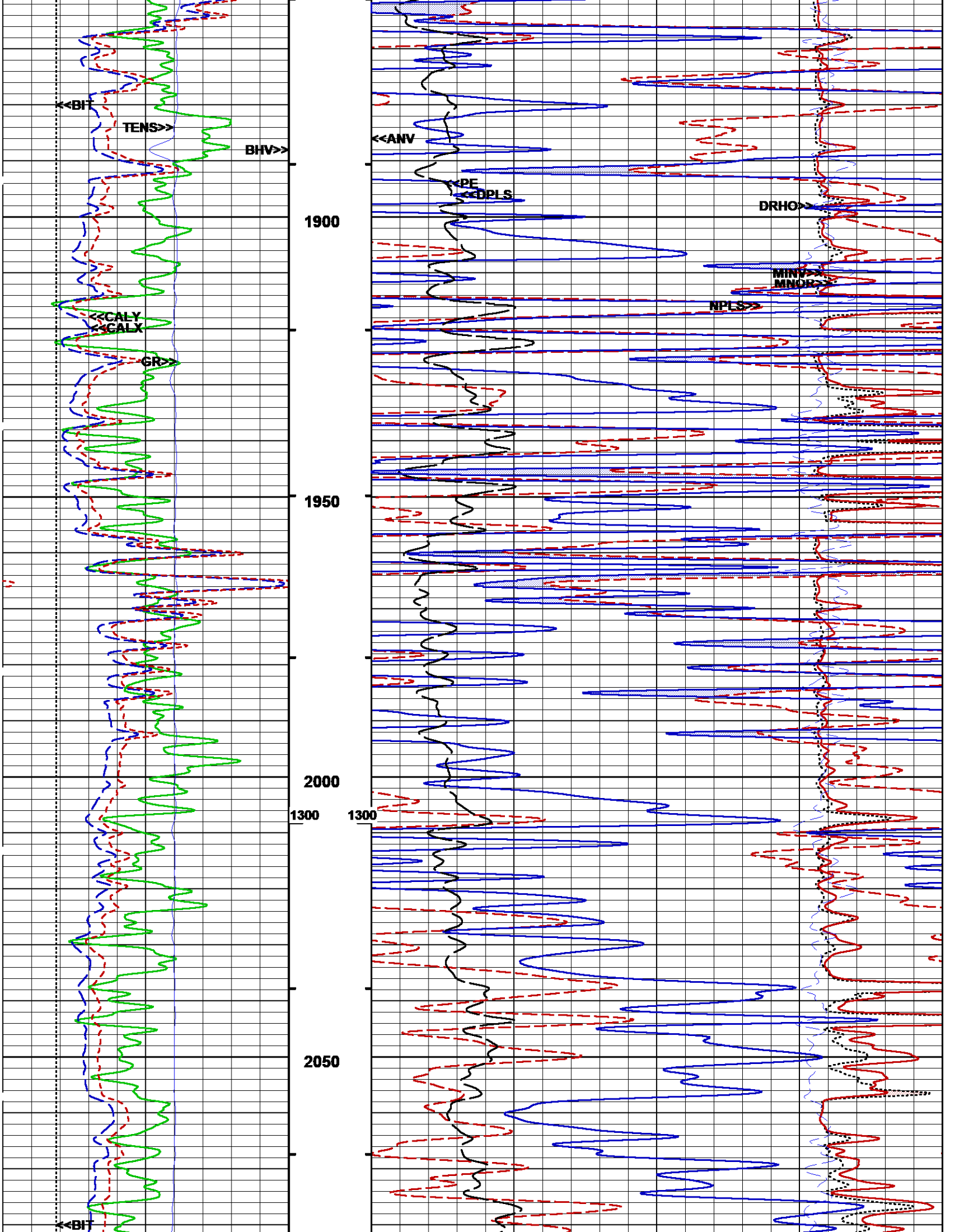


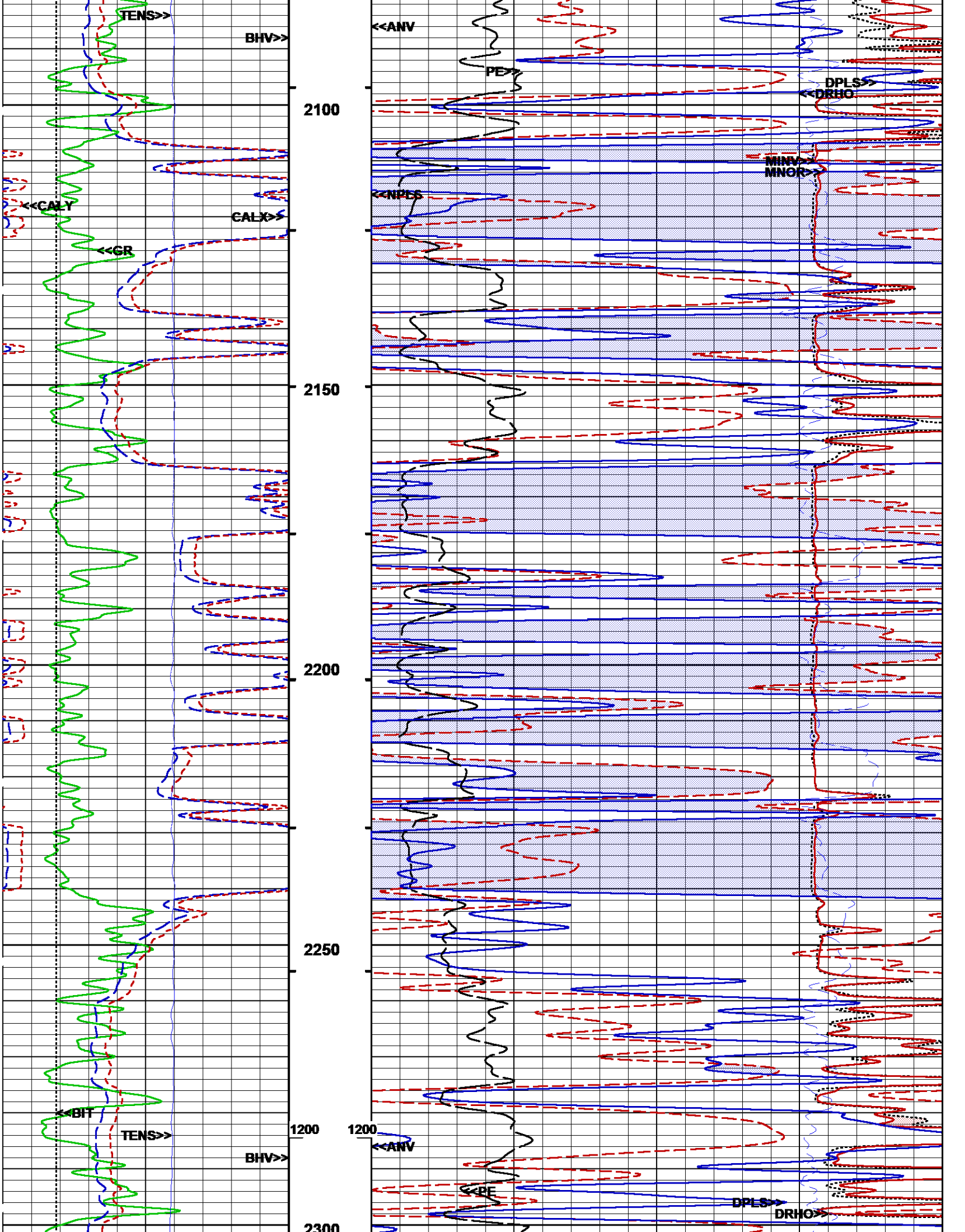
08/08/2021 **MAIN PASS - RHOB (2"/100ft)** Log UP - (VER 12.43)
06:22:45 => Start Time Start Depth=> 5825.75 Feet

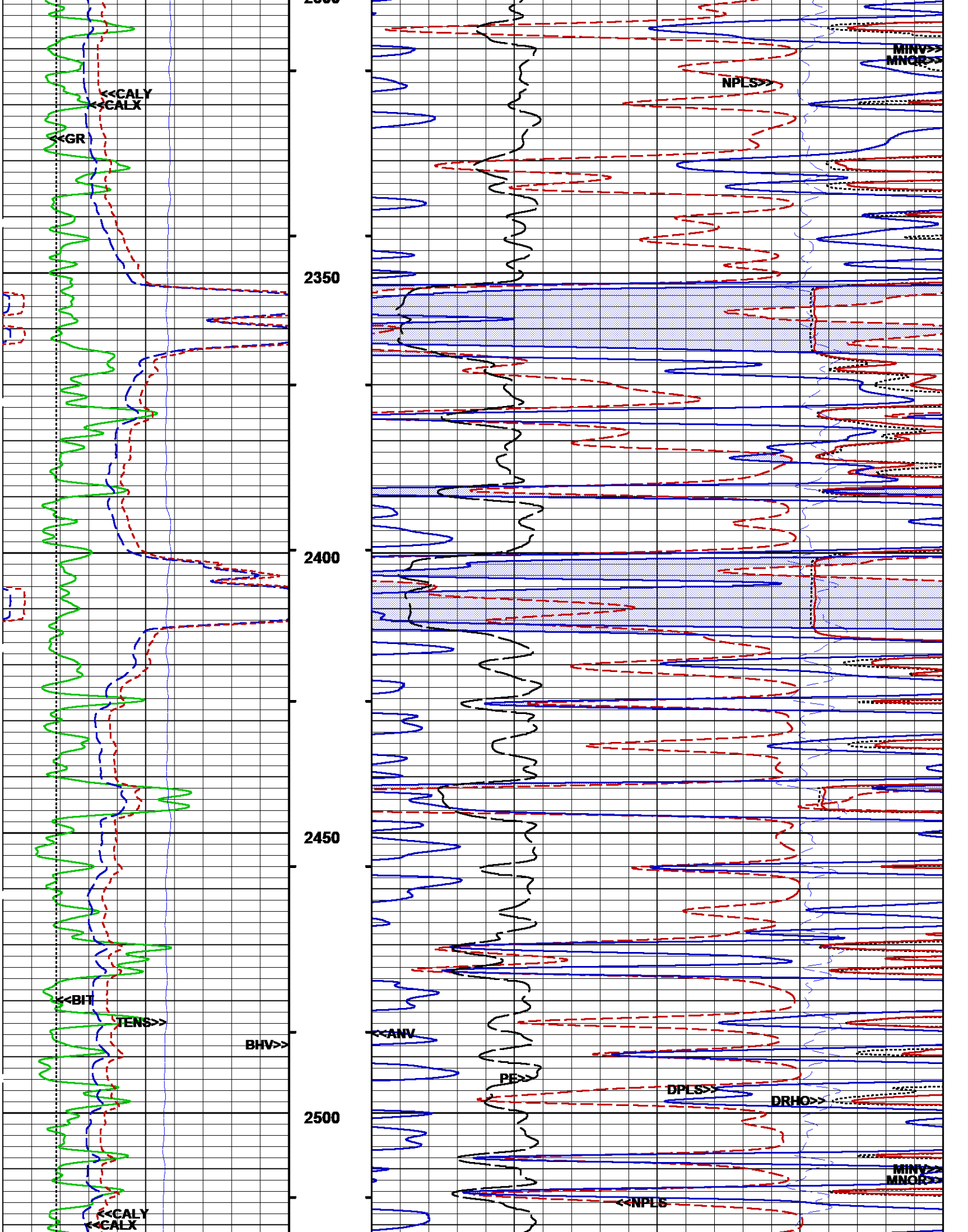
08/08/2021 **MAIN PASS - LIMESTONE (5"/100ft)** Log UP - (VER 12.43)
09:19:23 => End Time End Depth=> 1649.90 Feet

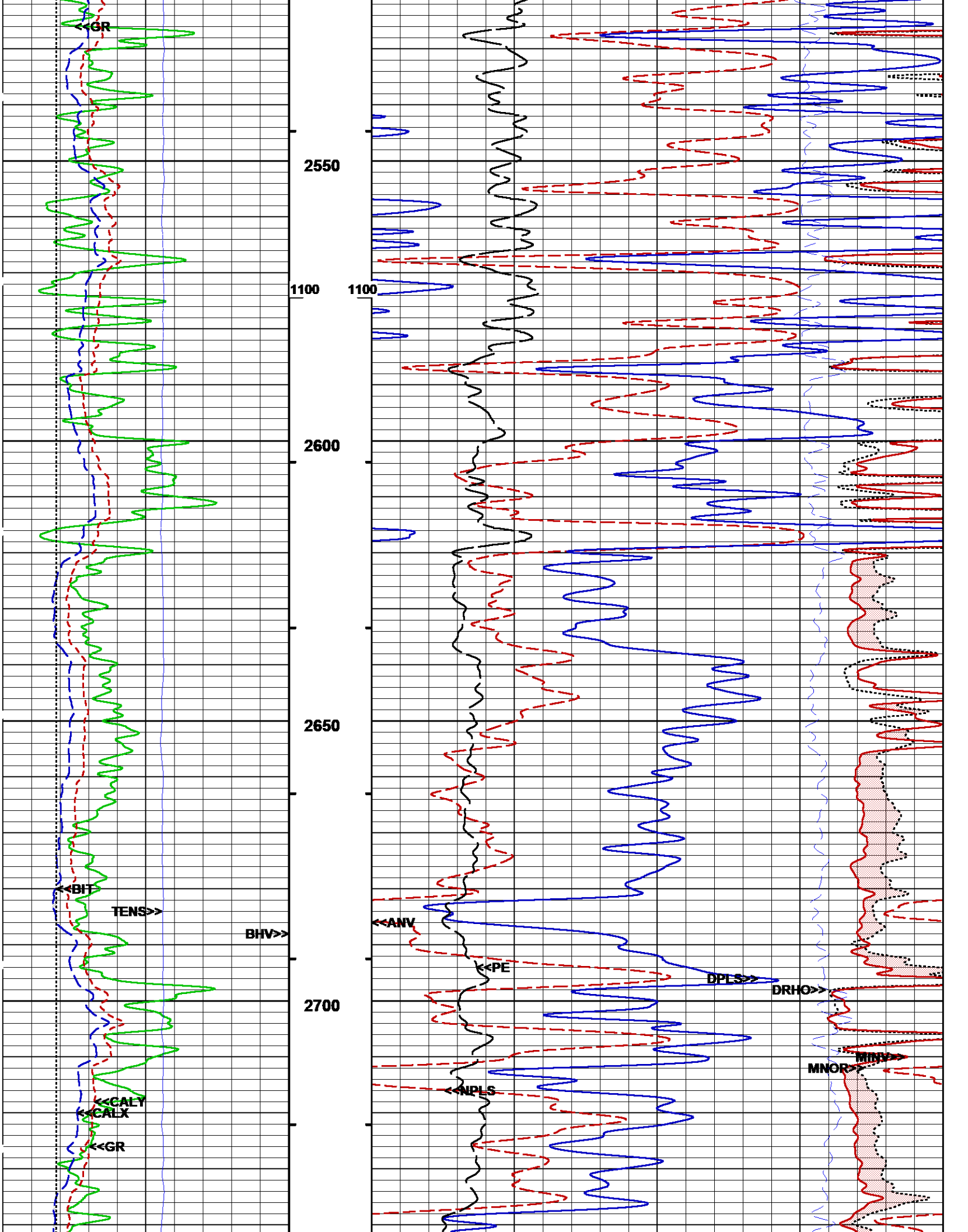


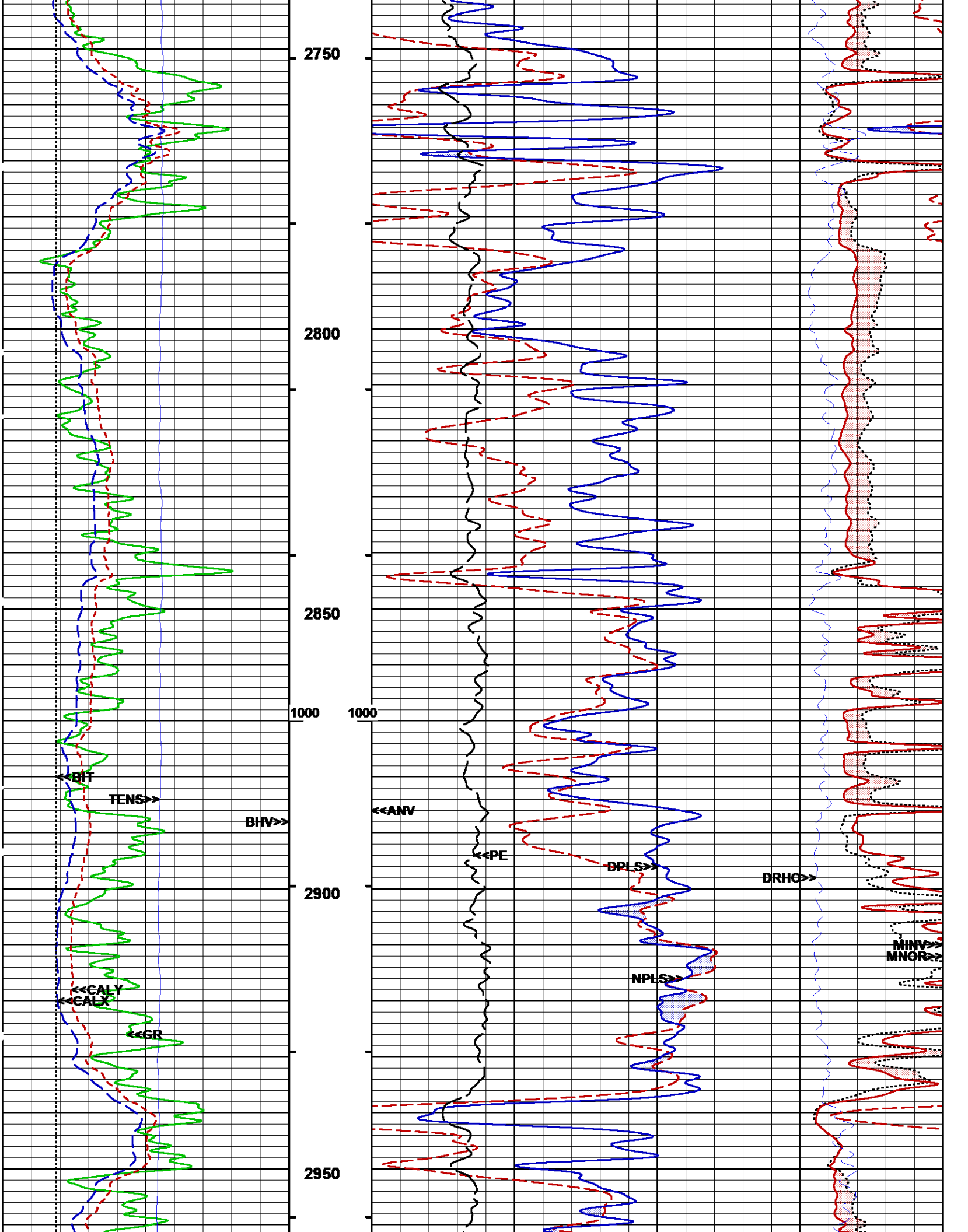


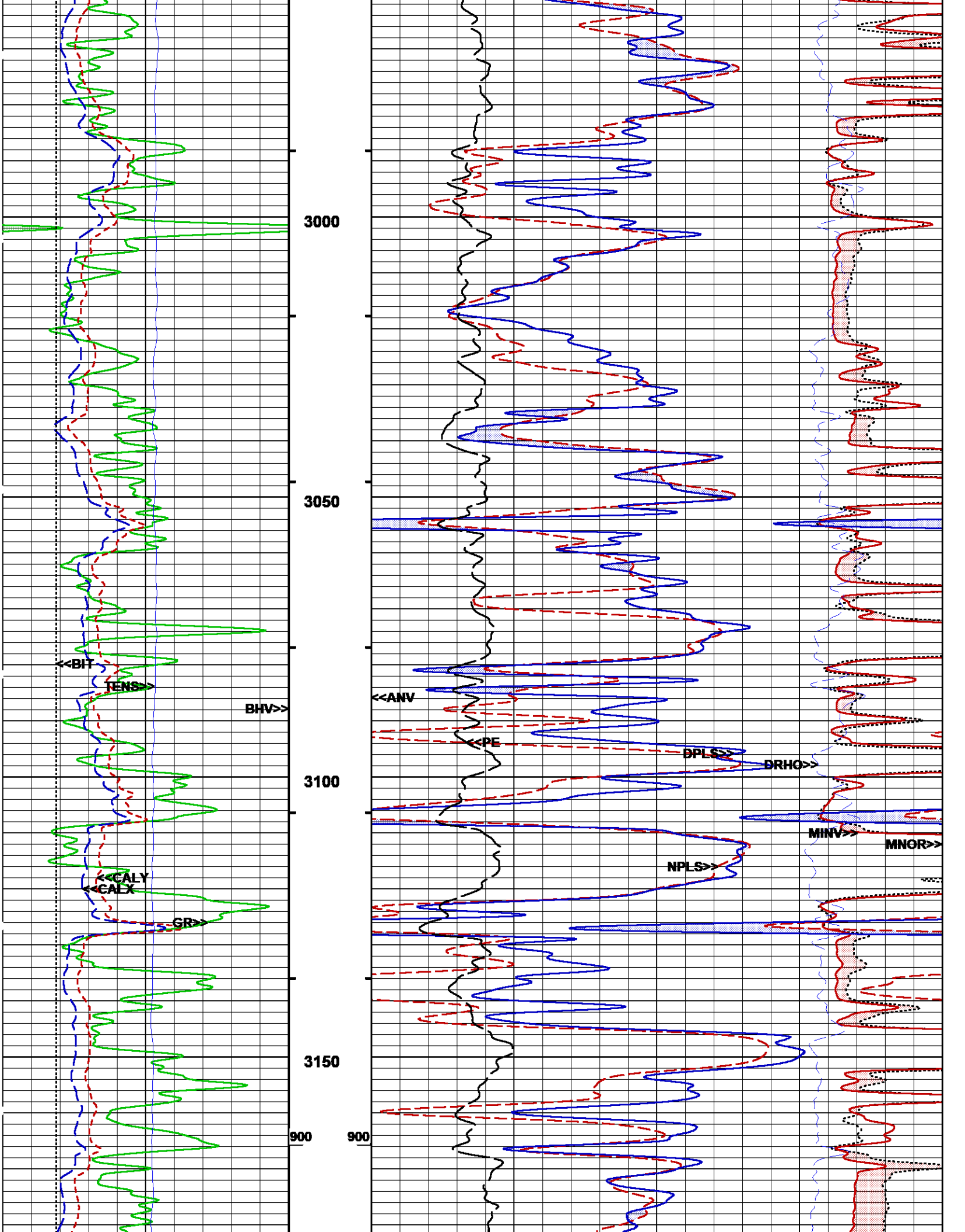


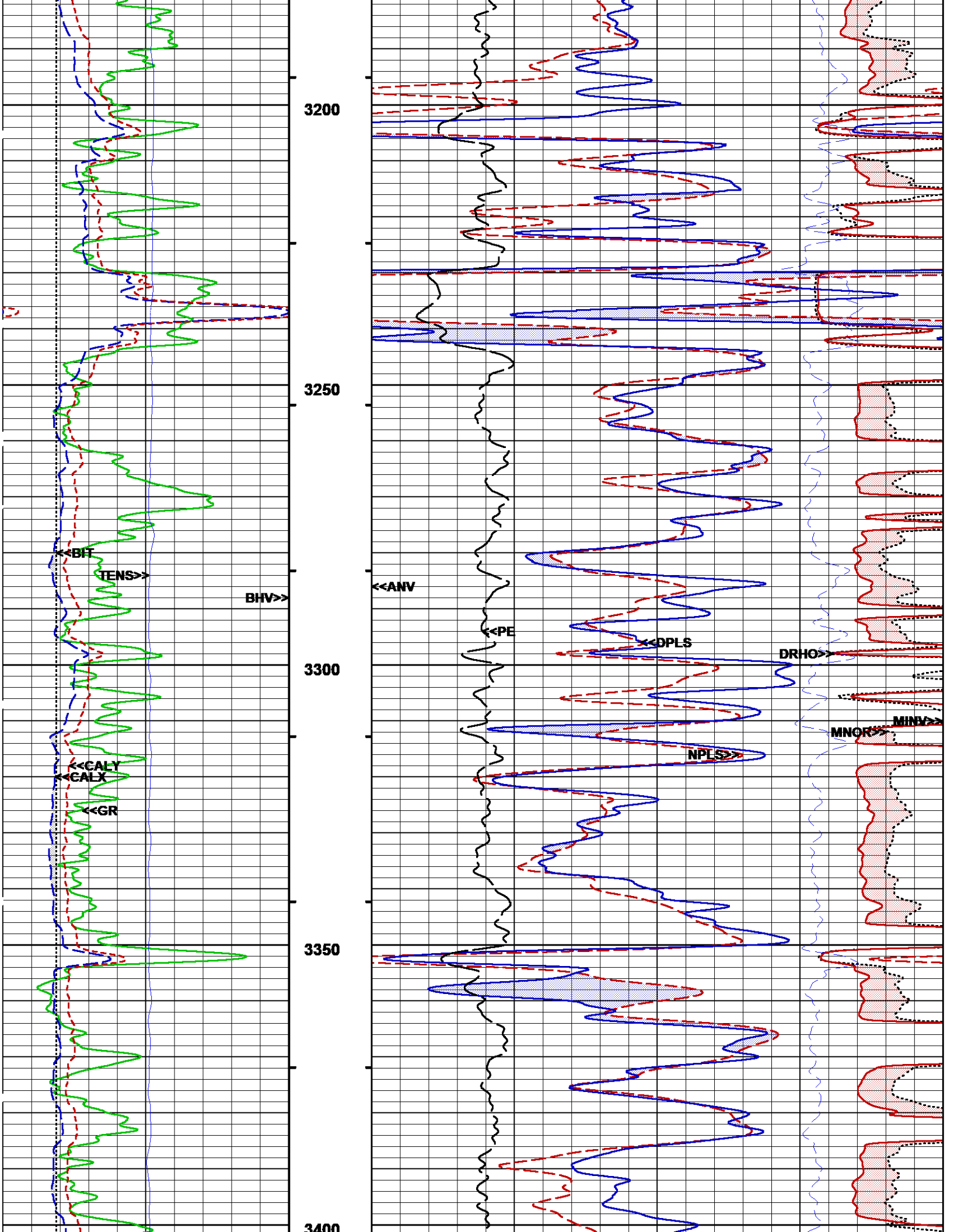


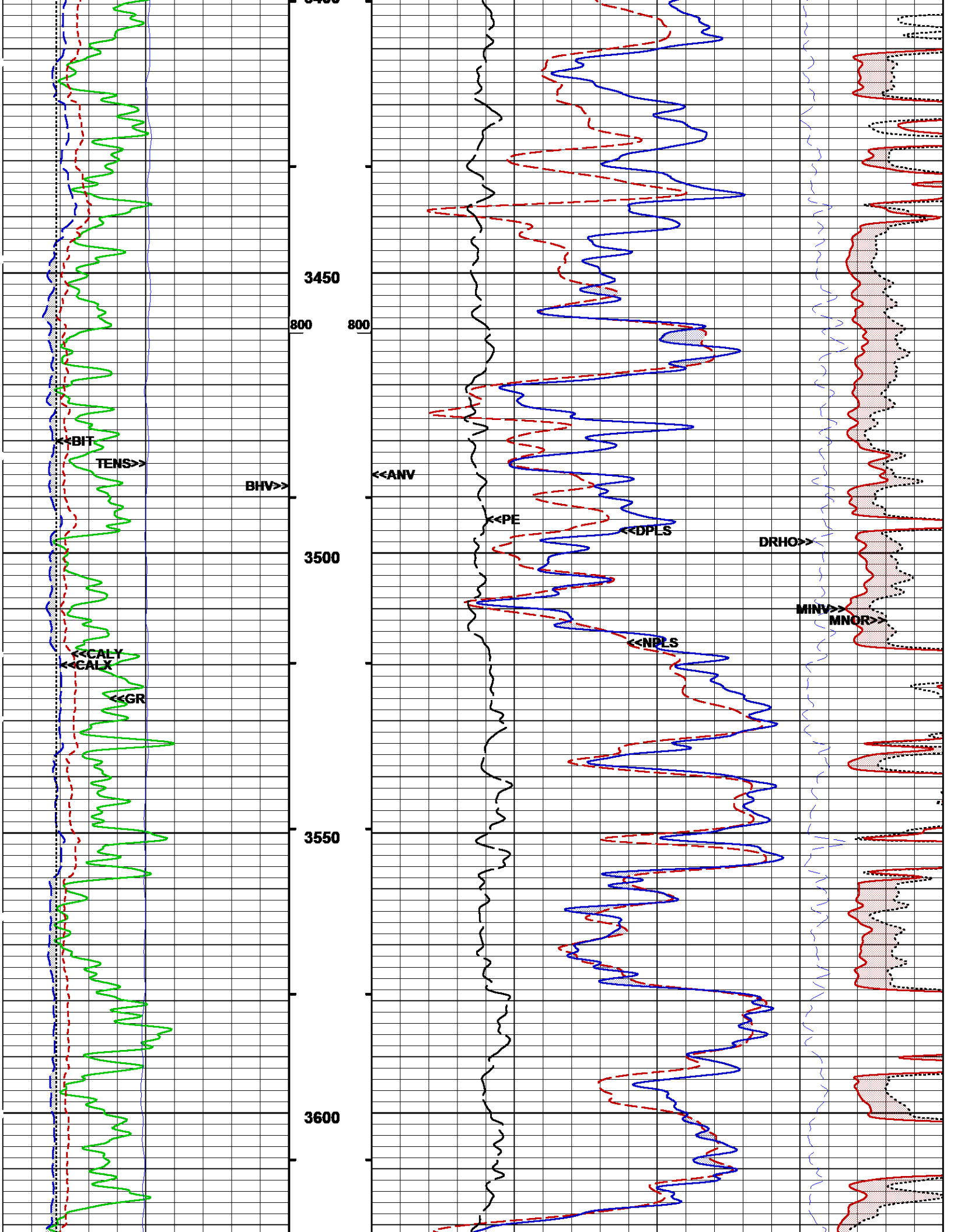


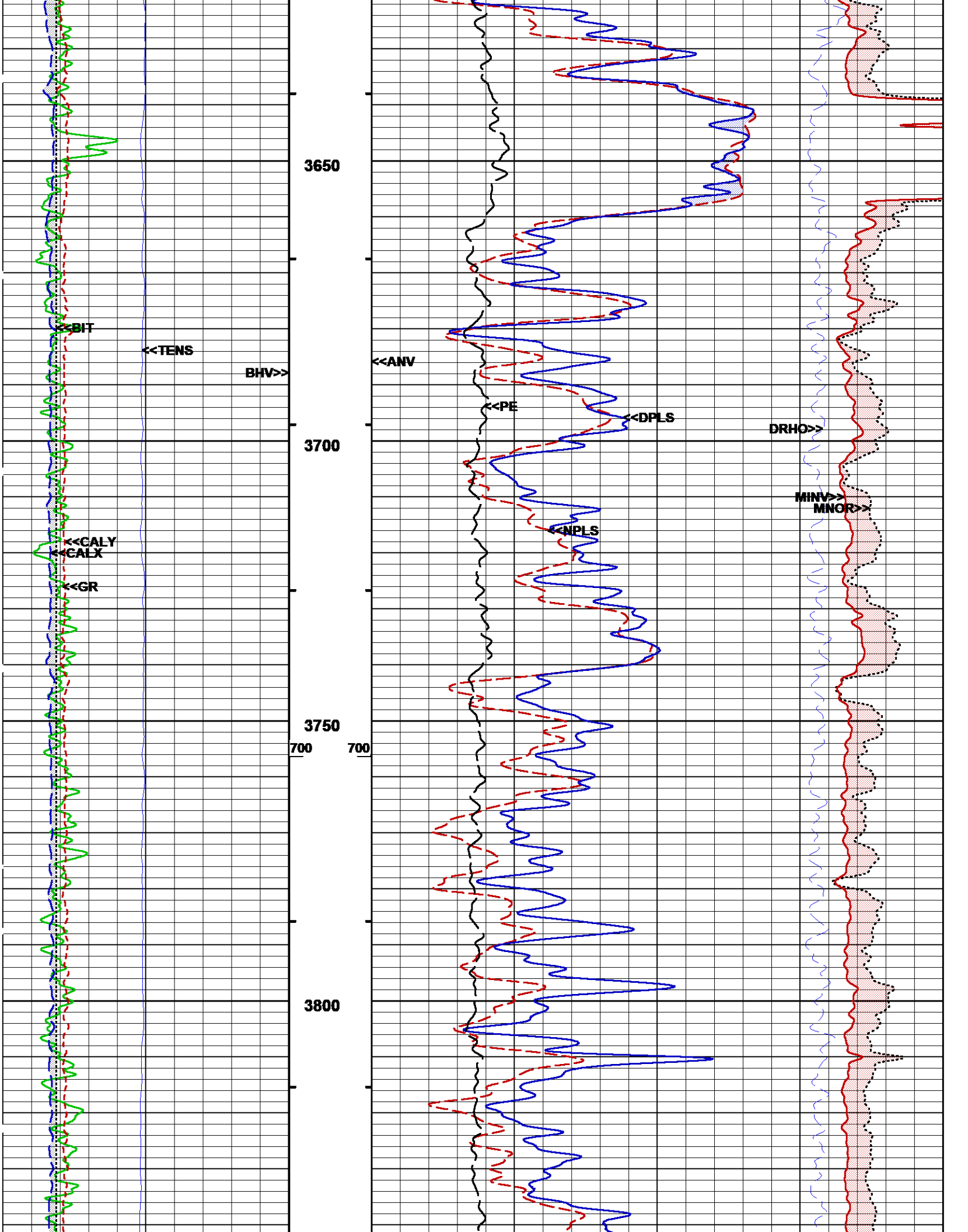


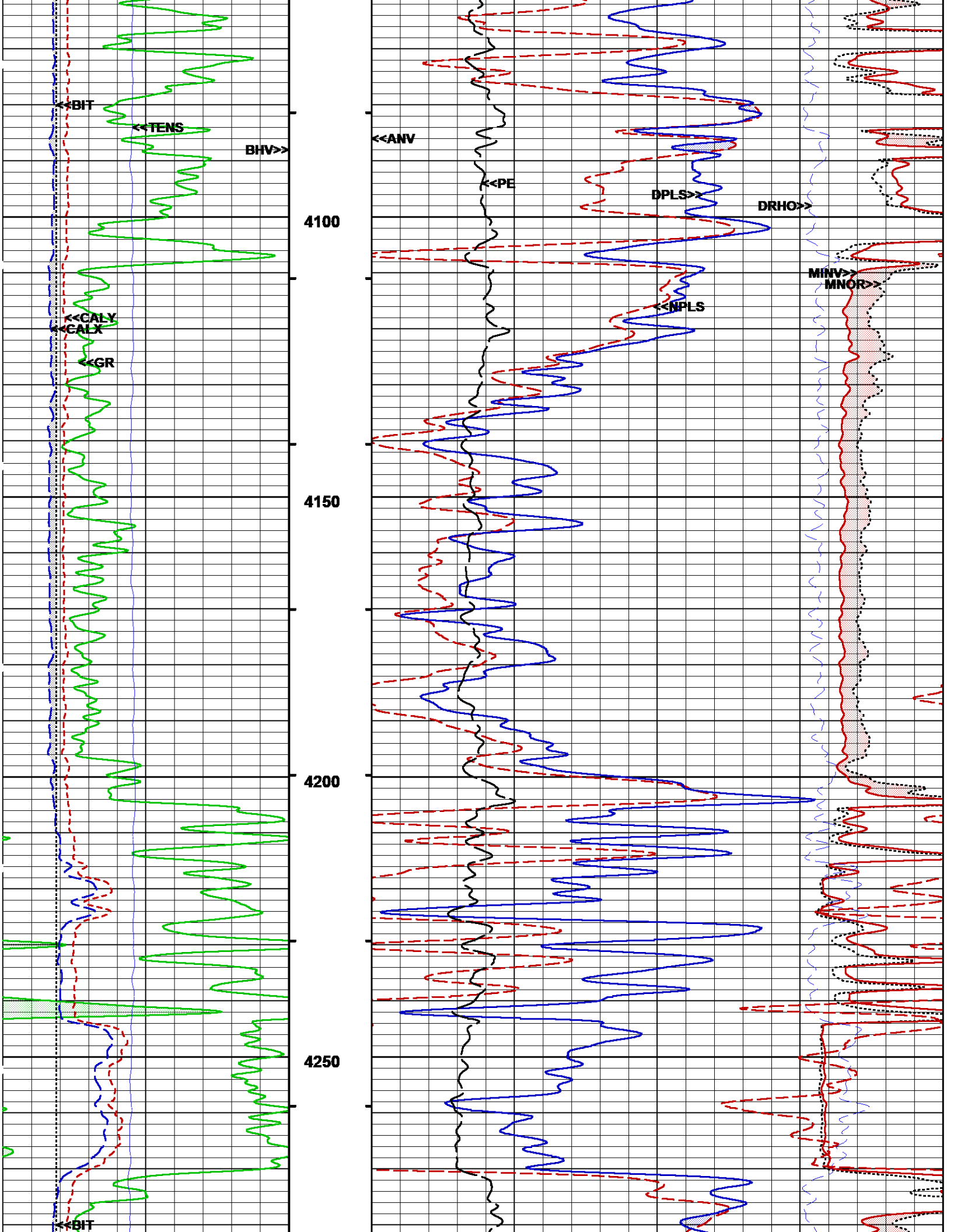


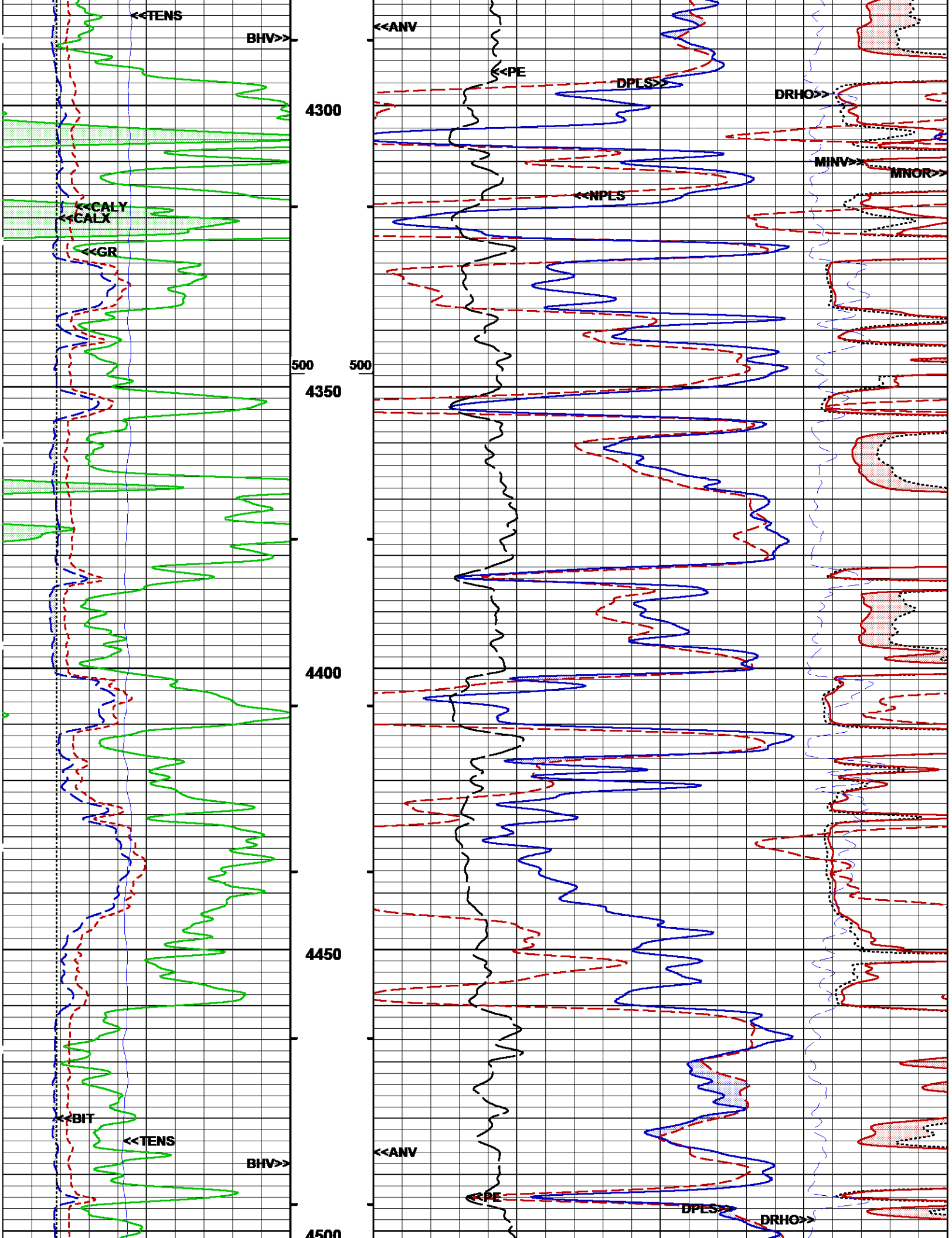


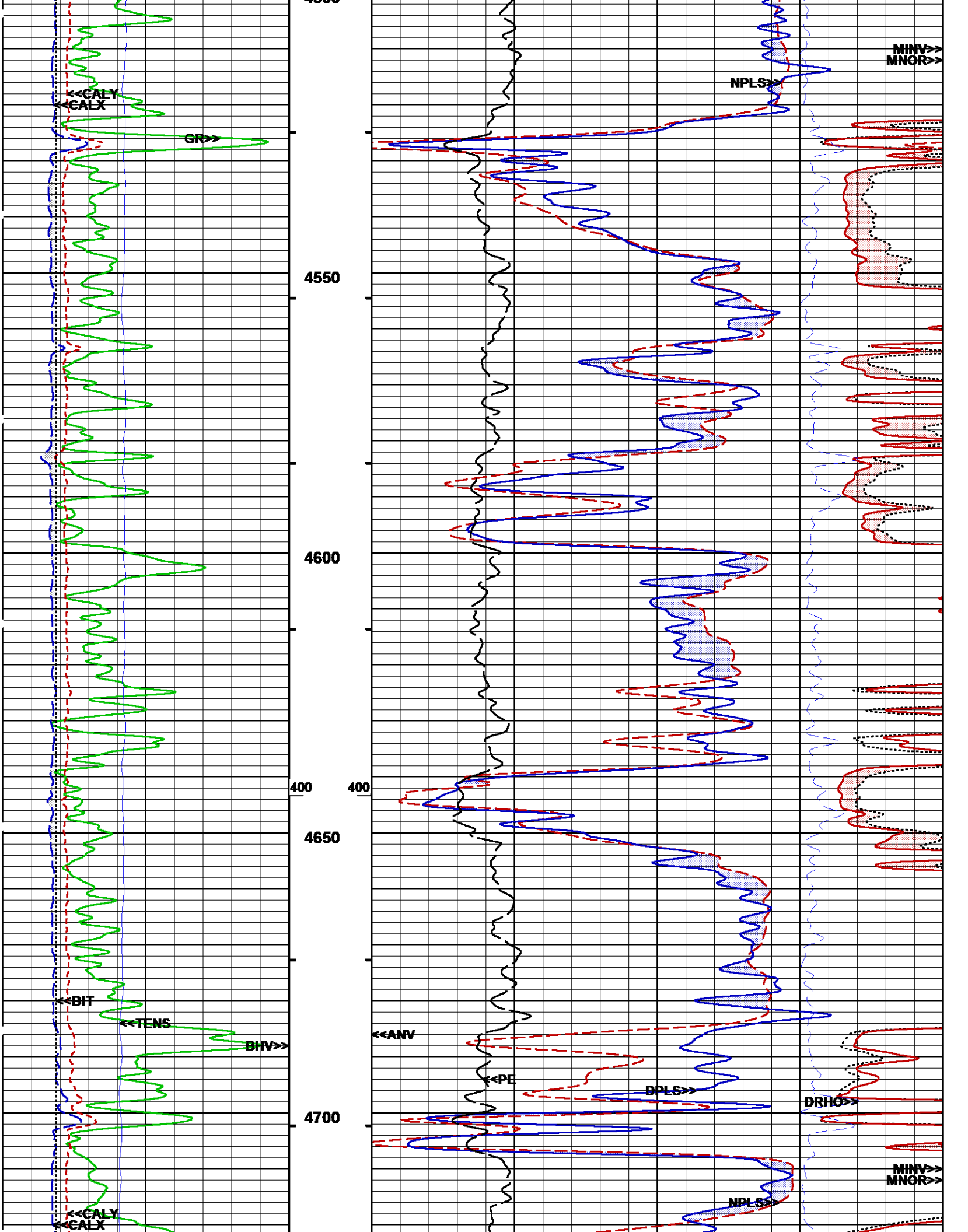


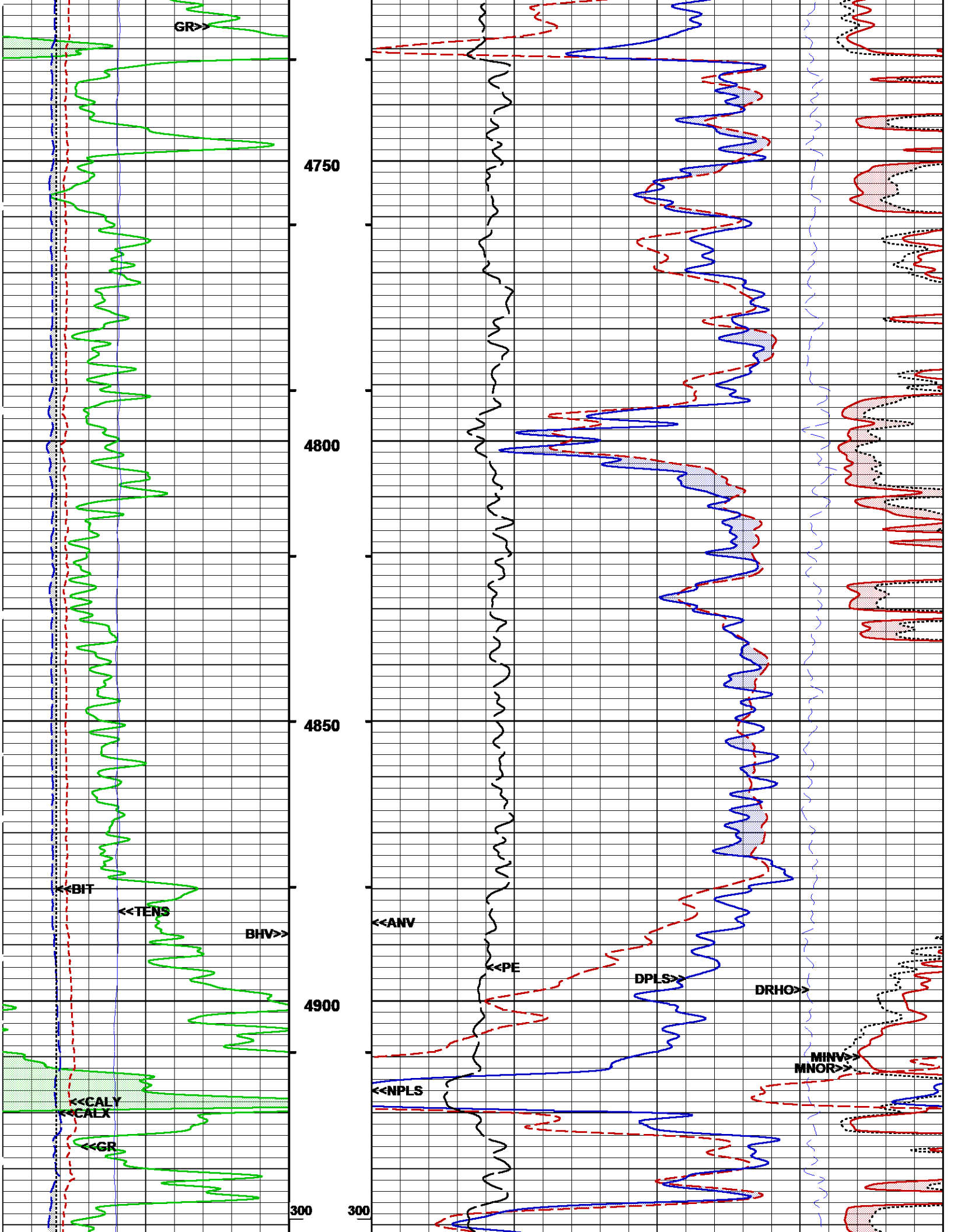


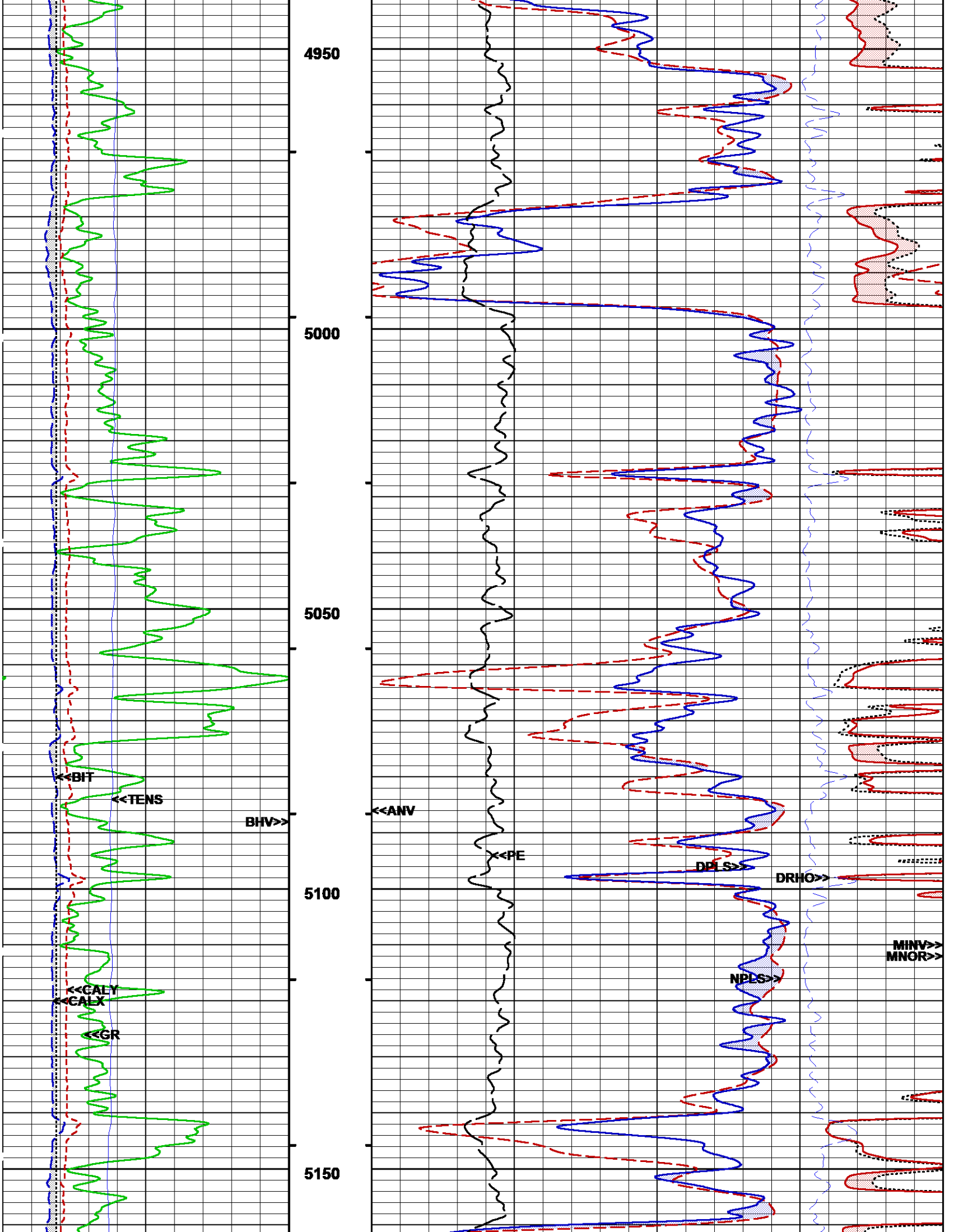


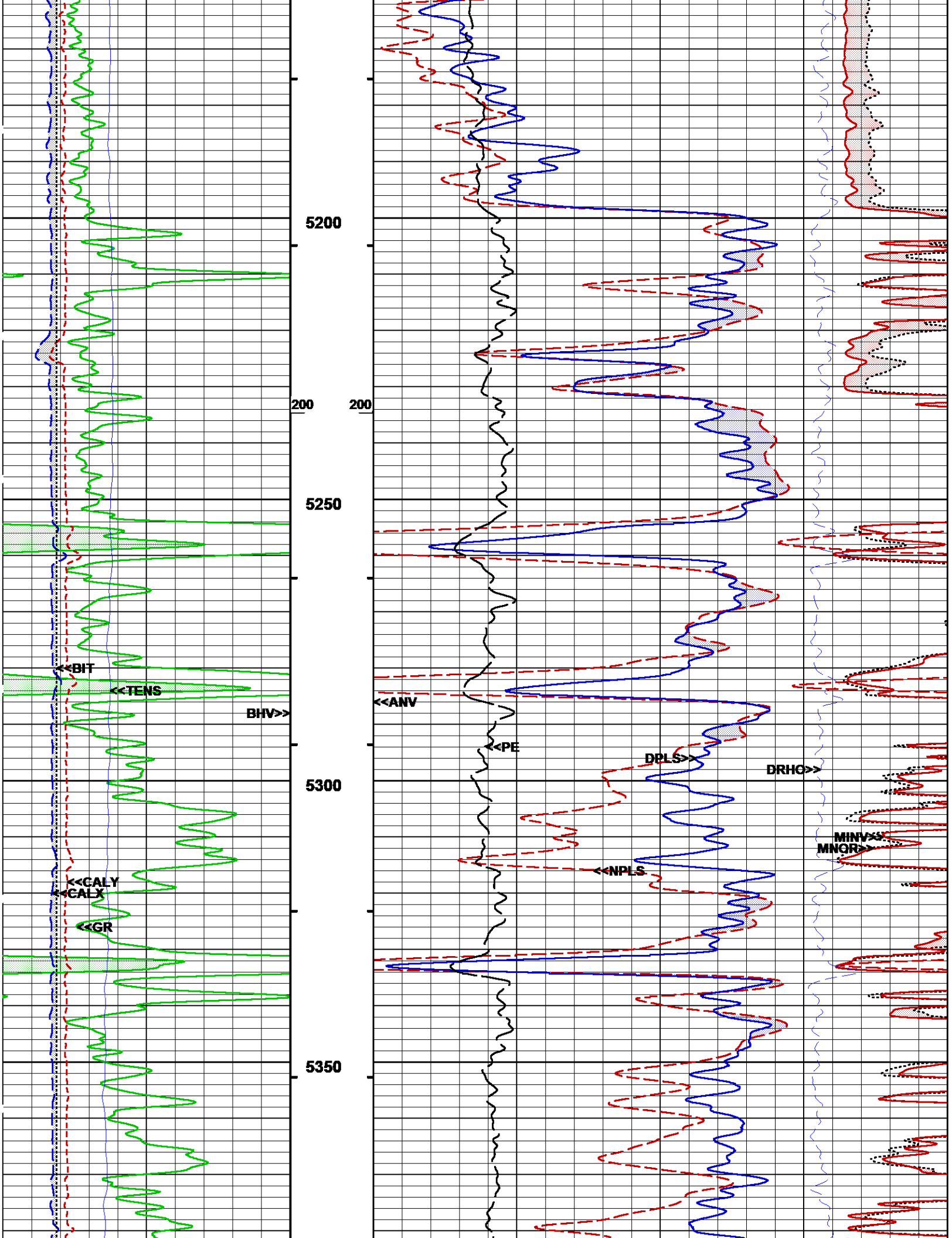


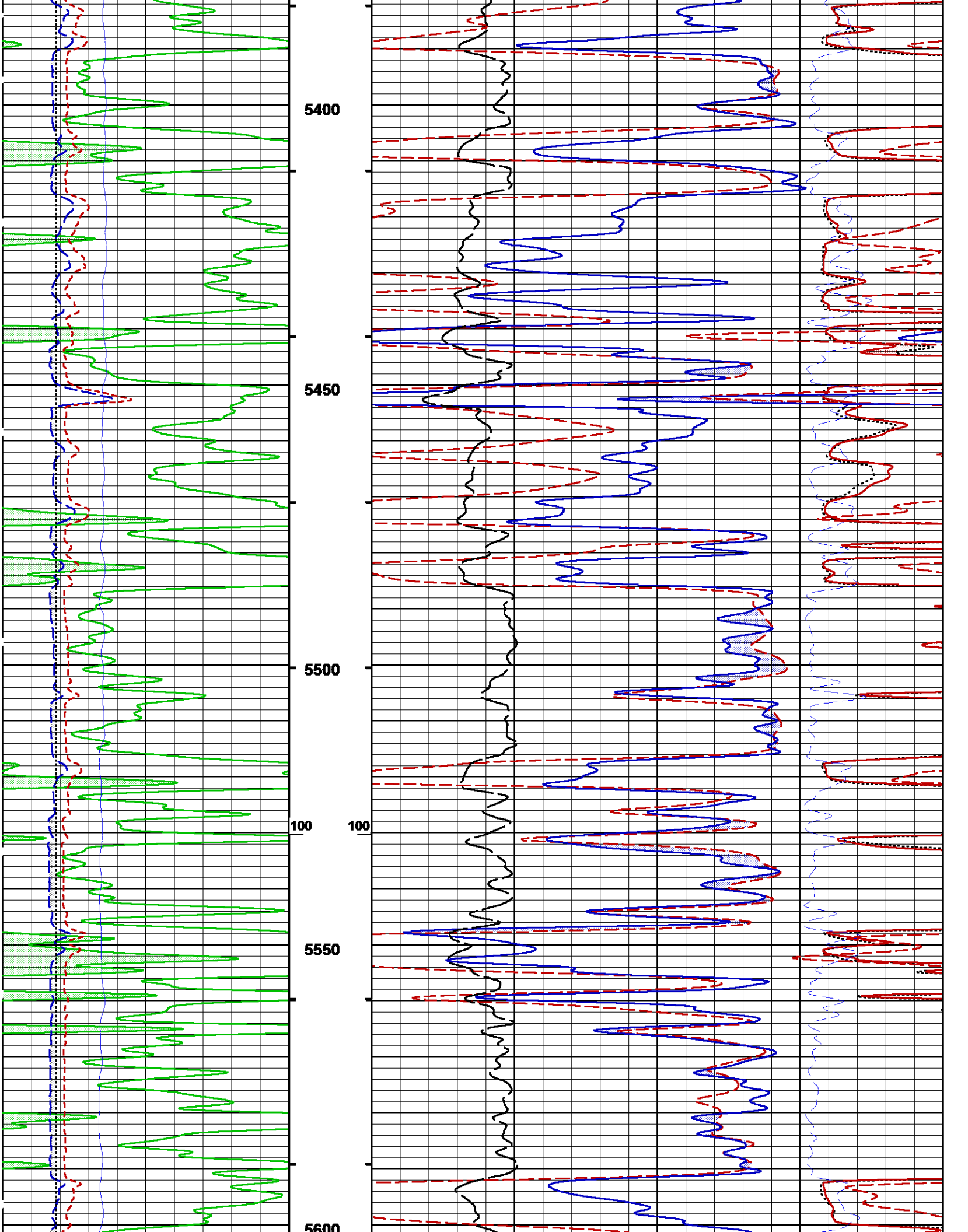


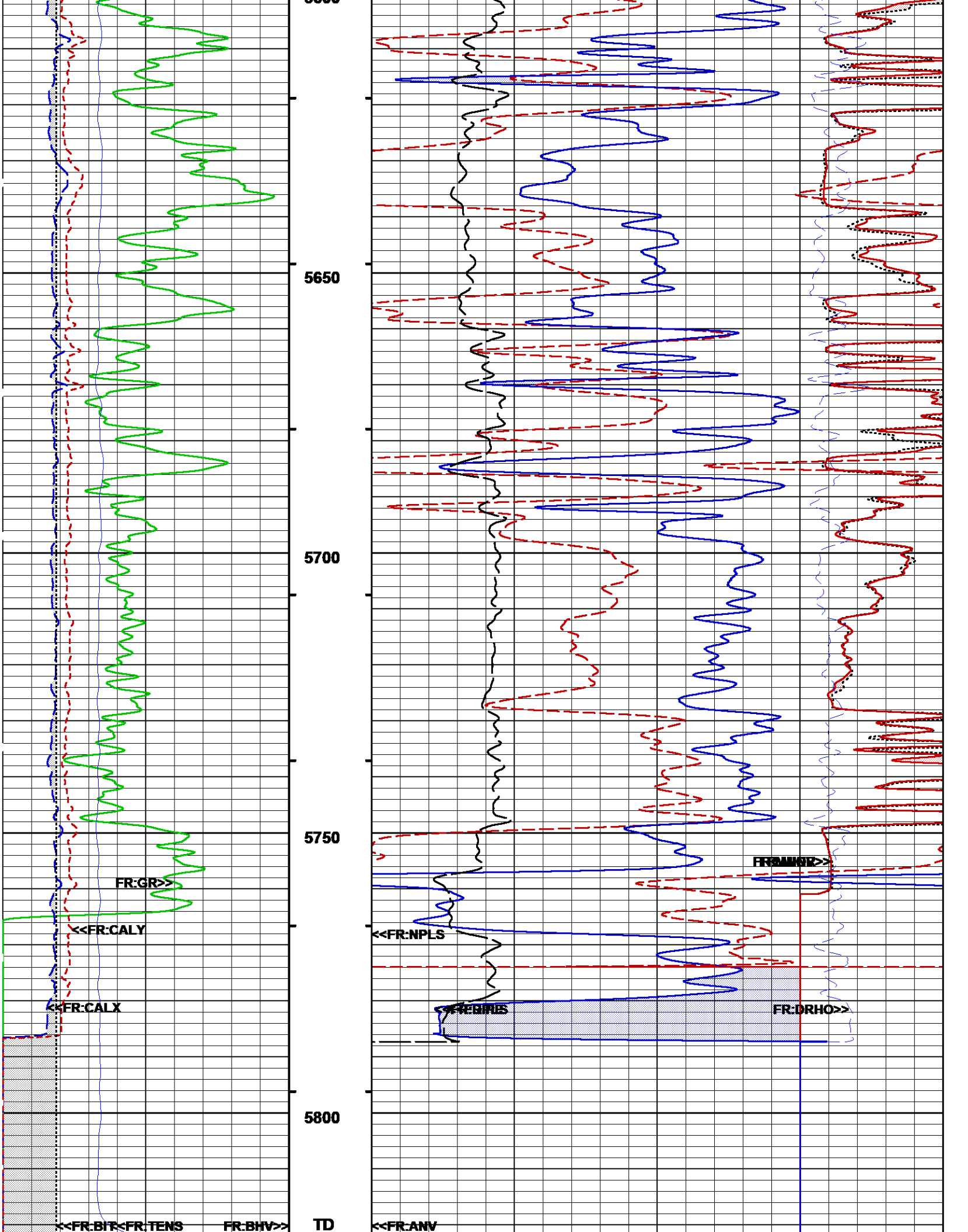


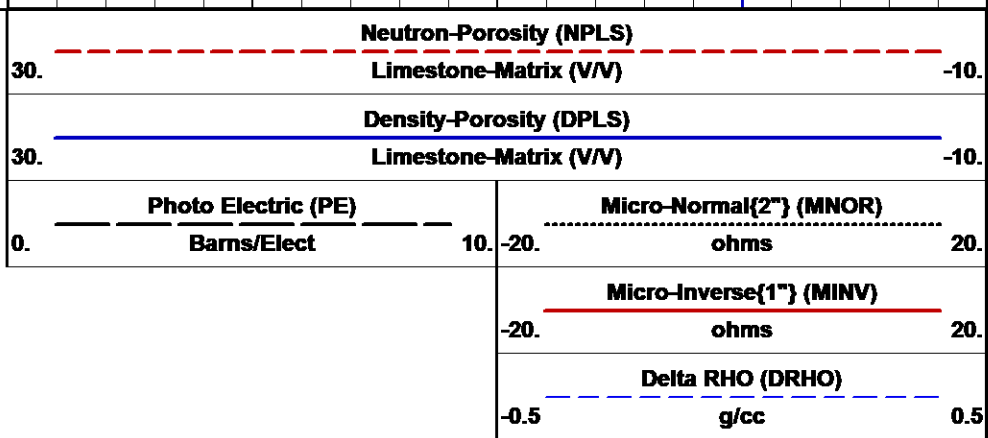
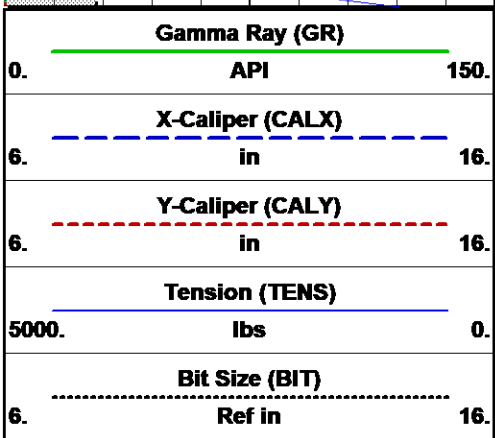






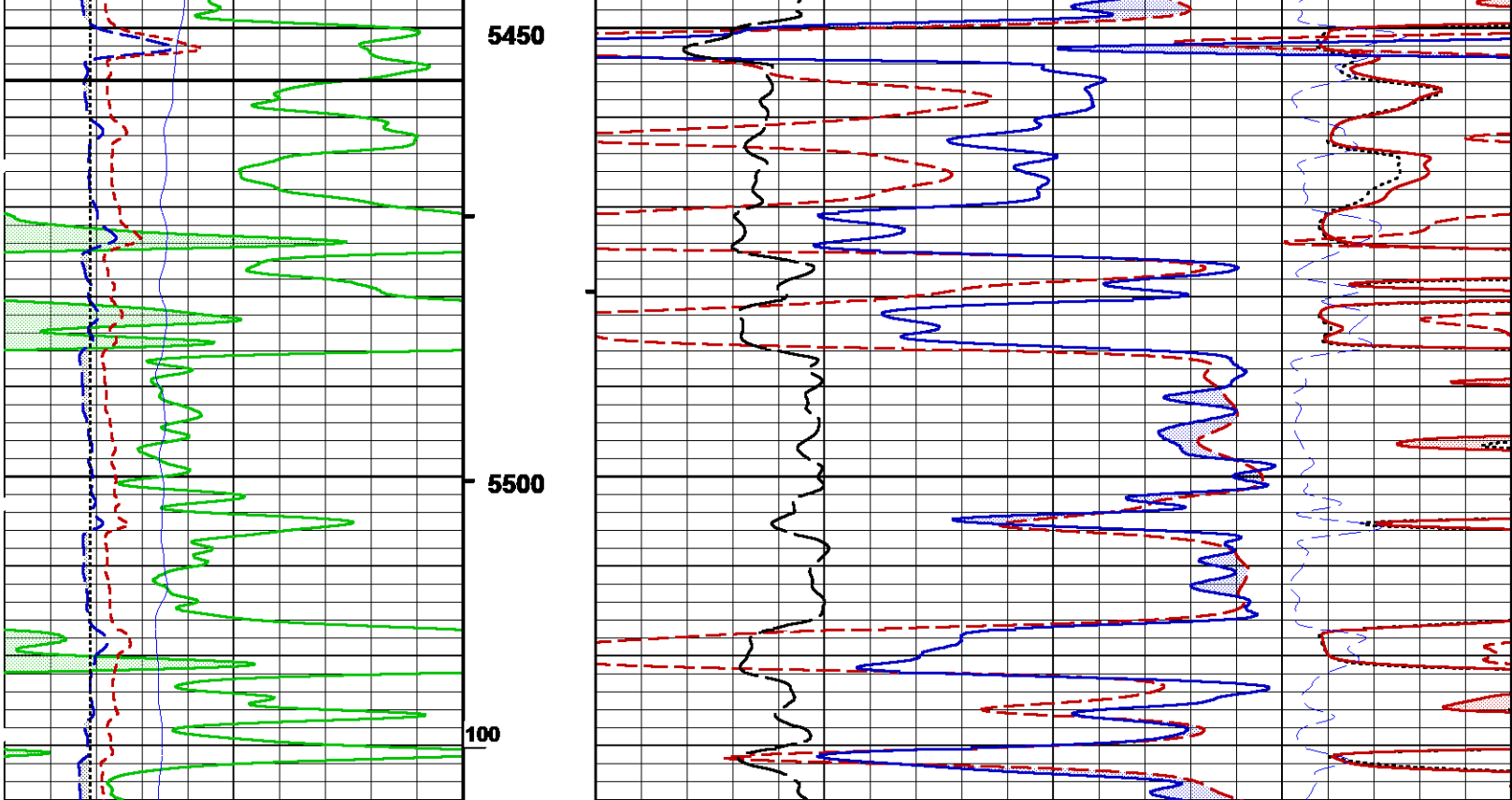
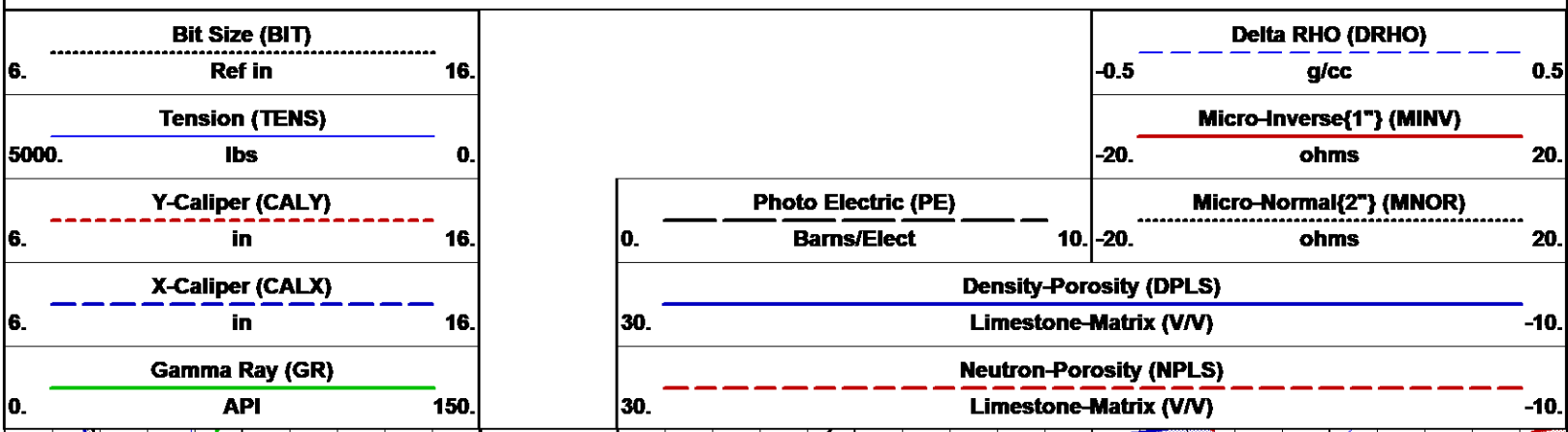


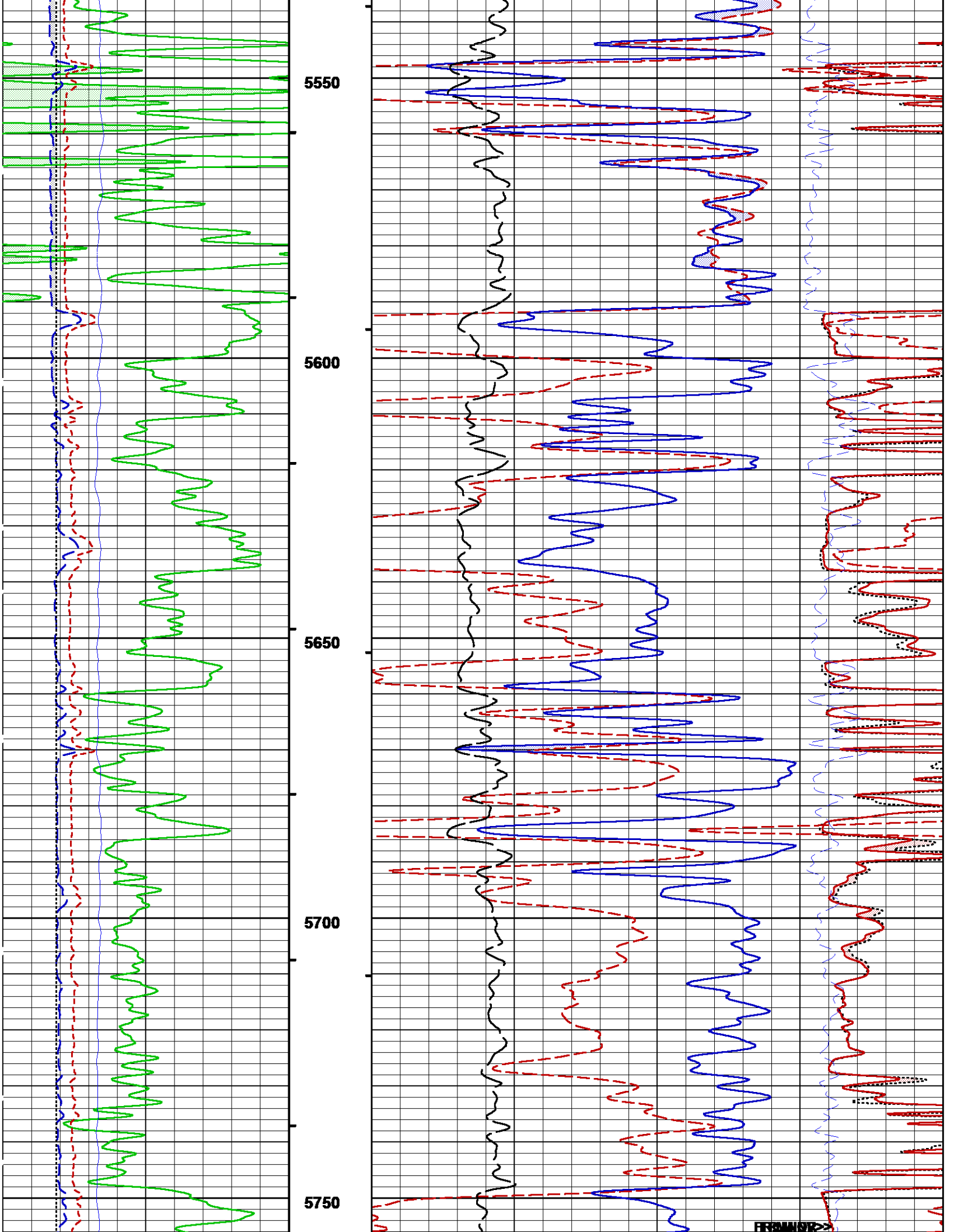


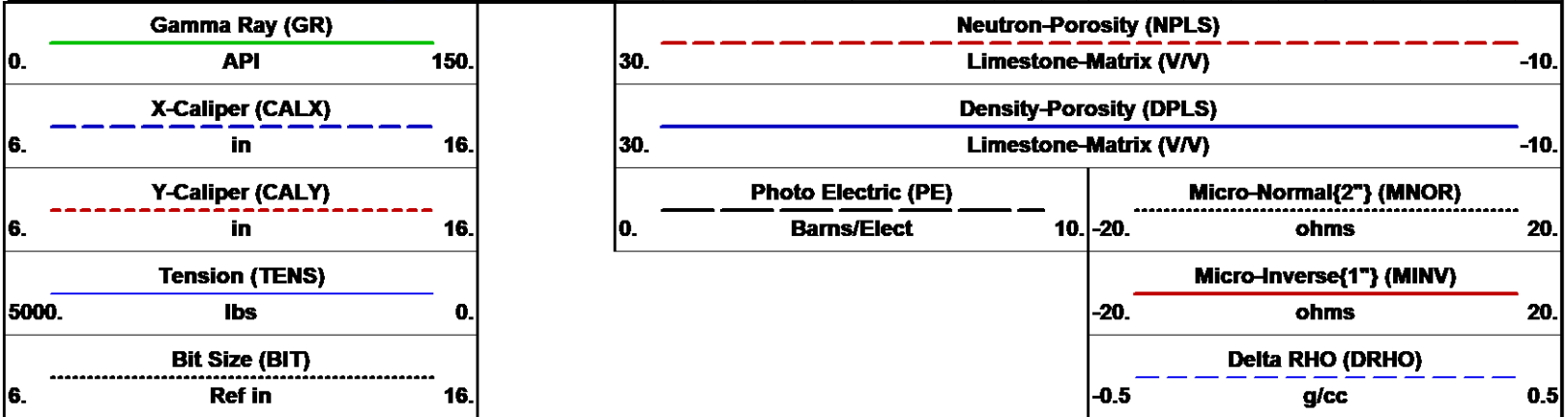
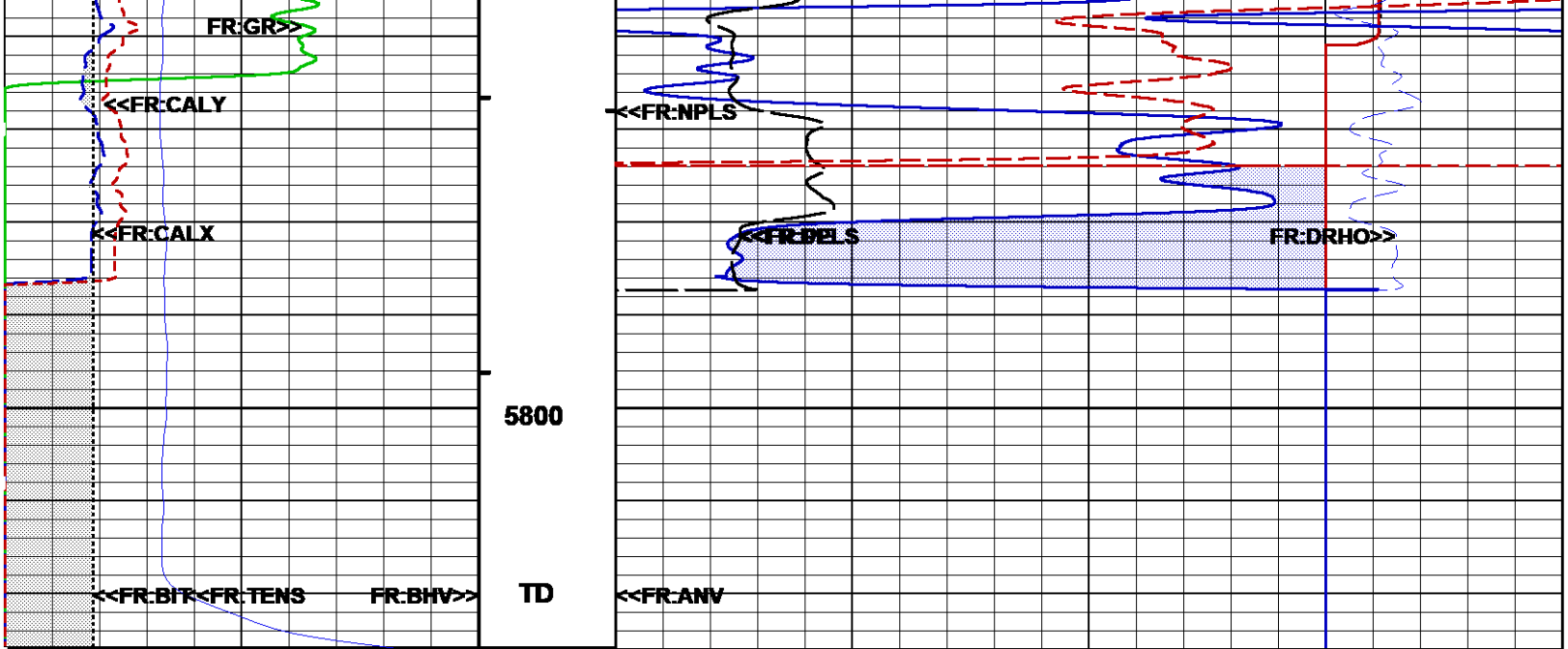


08/08/2021 **MAIN PASS - LIMESTONE (5"/100ft)** Log UP - (VER 12.43
 06:22:45 => Start Time Start Depth=> 5825.90 Feet

08/08/2021 **REPEAT PASS - LIMESTONE (5"/100ft)** Log UP - (VER 12.43
 06:17:10 => End Time End Depth=> 5446.90 Feet







08/08/2021 **REPEAT PASS - LIMESTONE (5"/100ft)** Log UP - (VER 12.43
 06:05:31 => Start Time Start Depth=> 5825.90 Feet

Litho-Density/PE Calibrations

TOOL TYPE SERIAL NUM **LFDC/Pe RL4116** SOURCE TYPE SOURCE NUM **CESIUM 137 L-85** SOURCE STRGTH **2 CURIE**

MASTER BLOCK CALIBRATIONS

	W1(cps)	W2(cps)	W3(cps)	W4(cps)	SS	UNITS	CALIBRATION DATE	CALIBRATION TIME
ALUMINUM	5415.327	4406.596	2026.204	6.658	4486.8730	2.508g/cc	M/D/Y> 7/27/2021	H:M:S> 8:50:56
MAGNESIUM	17148.155	13530.543	5555.973	7.514	6447.5442	1.693g/cc		
BACKGROUND	1223.420	1079.791	748.084	6.803	4.7458			
SAND	17137.654	13519.483	5545.957	7.318		1.500(PE)		
IRON	4522.410	3805.621	1841.485	5.810		4.500(PE)		
FIELD VERIFIER(cps)	1259.906	1109.743	759.057	7.714	5.0865			
VER NUM RL								

WELL SITE CALIBRATIONS

VER NUM	RL	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	RN2012	SOURCE NUM			

MASTER TANK CALIBRATIONS

		NEAR(cps)	FAR(cps)	RATIO	K VALUE	CALIBRATION DATE	CALIBRATION TIME
LOW PHI	3.150			0.6439	0.9800	M/D/Y> 7/7/2021	H:M:S> 15:57:53
MED PHI	19.130			1.1031	0.9800		
HIGH PHI	31.300			1.3223	0.9801		
FIELD VERIFIER(cps)		66.208	60.333	1.0974			
VER NUM	7430						

WELL SITE CALIBRATIONS

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

SP

SERIAL NUM	Type-SerNum
BLANKET NUM	1A

MASTER CALIBRATIONS

	ZeroVal: 0.000 mV	CalVal: 1.000 mV	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	0.000 - raw	0.000 - raw	1.000 - gain 0.000 - off	M/D/Y> 0/0/0	H:M:S> 0:0:0

X-CALIPER CALIBRATION

SERIAL NUM	RL4116

MASTER CALIBRATIONS

	ZeroVal: 6.000 IN	CalVal: 10.000 IN	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	1244.531 - raw	2418.874 - raw	0.003 - gain 1.761 - off	M/D/Y> 7/27/2021	H:M:S> 9:27:49

Y CALIPER CALIBRATIONS

SERIAL NUM	RN2012

MASTER CALIBRATIONS

	ZeroVal: 6.000 IN	CalVal: 13.250 IN	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
			0.010 - gain		

BASE CALS	720.000 - raw	1419.224 - raw	0.010 - gain -1.465 - off	M/D/Y> 7/7/2021	H:M:S> 16:4:34
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MICRO INVERSE CALIBRATION

SERIAL NUM

RM8010

MASTER CALIBRATIONS

	ZeroVal: 0.010 mVs	CaIVal: 10.000 mVs	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	26.828 - raw	214.634 - raw	0.053 - gain -1.417 - off	M/D/Y> 10/19/2020	H:M:S> 12:40:29

MICRO NORMAL CALIBRATION

SERIAL NUM

RM8010

MASTER CALIBRATIONS

	ZeroVal: 0.010 mVs	CaIVal: 10.000 mVs	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	11.702 - raw	138.073 - raw	0.079 - gain -0.915 - off	M/D/Y> 10/19/2020	H:M:S> 12:39:50

MICRO CALIPER CALIBRATION

SERIAL NUM

RM8010

MASTER CALIBRATIONS

	ZeroVal: 6.000 IN	CaIVal: 10.000 IN	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	2209.988 - raw	3280.953 - raw	0.004 - gain -2.254 - off	M/D/Y> 10/19/2020	H:M:S> 12:26:20

Company

AGRICULTURAL ENERGY SERVICES, INC.

Well

HOPE 1-23

Field

KISMET

County

SEWARD

State

KANSAS



**COMPENSATED NEUTRON
LITHOLOGY DENSITY
GAMMA RAY XY-CALIPER
MICROLOG**