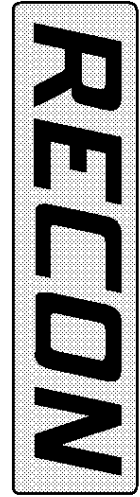


Company **VAUGHN GOOD OIL COMPANY**
 Well **NUSSER #2-16**
 Field **SE HARDNER**
 County **BARBER**
 State **KANSAS**



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

SEC	TWP	RGE	OTHER SERVICES:
16	35S	12W	DIL
Location: 400' FNL & 1320' FWL		S1/2 NW NE NW	
SURF. SAME		AP# 015-007-23856	
Permanent Datum	Ground Level	Elev	1410
Log Measured From	Kelly Bushing		
Drilling Measured From	Kelly Bushing		
		ELEVATIONS	K.B. 1422
			G.L. 1410
			D.F. 1420

Date	29-APR-2012	
Run No.	ONE	
TD Driller	5500	ft
TD RECON	5497	ft
Bot Logged Interval	5496	ft
Top Logged Interval	425	ft
Casing Depth Driller	8 5/8	in. @ 410
Casing Depth RECON	8 5/8	in. @ 425
Bit Size	7 7/8	in.
Drilling Fluid Type	CHEMICAL	
Density	8.8	ppg
Viscosity	11.2	cm ³ /30min
Fluid Loss	PH	10.0 strip
Source Of Sample	Flowline	
RM @ Measured Temp	1.17	Ohmm @ 75
RMF @ Measured Temp	0.88	Ohmm @ 75
RMC @ Measured Temp	1.47	Ohmm @ 75
RM @ MRT	0.68	Ohmm @ 135
Max Recorded Temp	135	DegF
Time Drilling Stopped	29-APR-2012	05:30
Time Circulation Stopped	29-APR-2012	09:45
Time Logger On Bottom	29-APR-2012	16:35
Unit Num	S408	OKLAHOMA CITY, OK
Location	OKLAHOMA CITY, OK	
Recorded By	H. GARCIA	
Witnessed By	MR. M. GOOD	

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#	MENDENHALL DRLG. #3
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GENERAL REMARKS SECTION

FIRST RUN IN THE HOLE
 CNL AND LDT LOGGED IN A LIMESTONE MATRIX
 TOP MARK - 539, BOTTOM MARK - 5442.7
 CNL/LDT LOGGED MATRIX: 2.71 g/cc.

CHLORIDES: 5000 mg/l
 LCM: 8 lb/bbl

THANK YOU FOR USING RECON PETROTECHNOLOGIES LTD.

AHV CALCULATED ON 5.5" PROD. CASING

CREW: J. ROSE

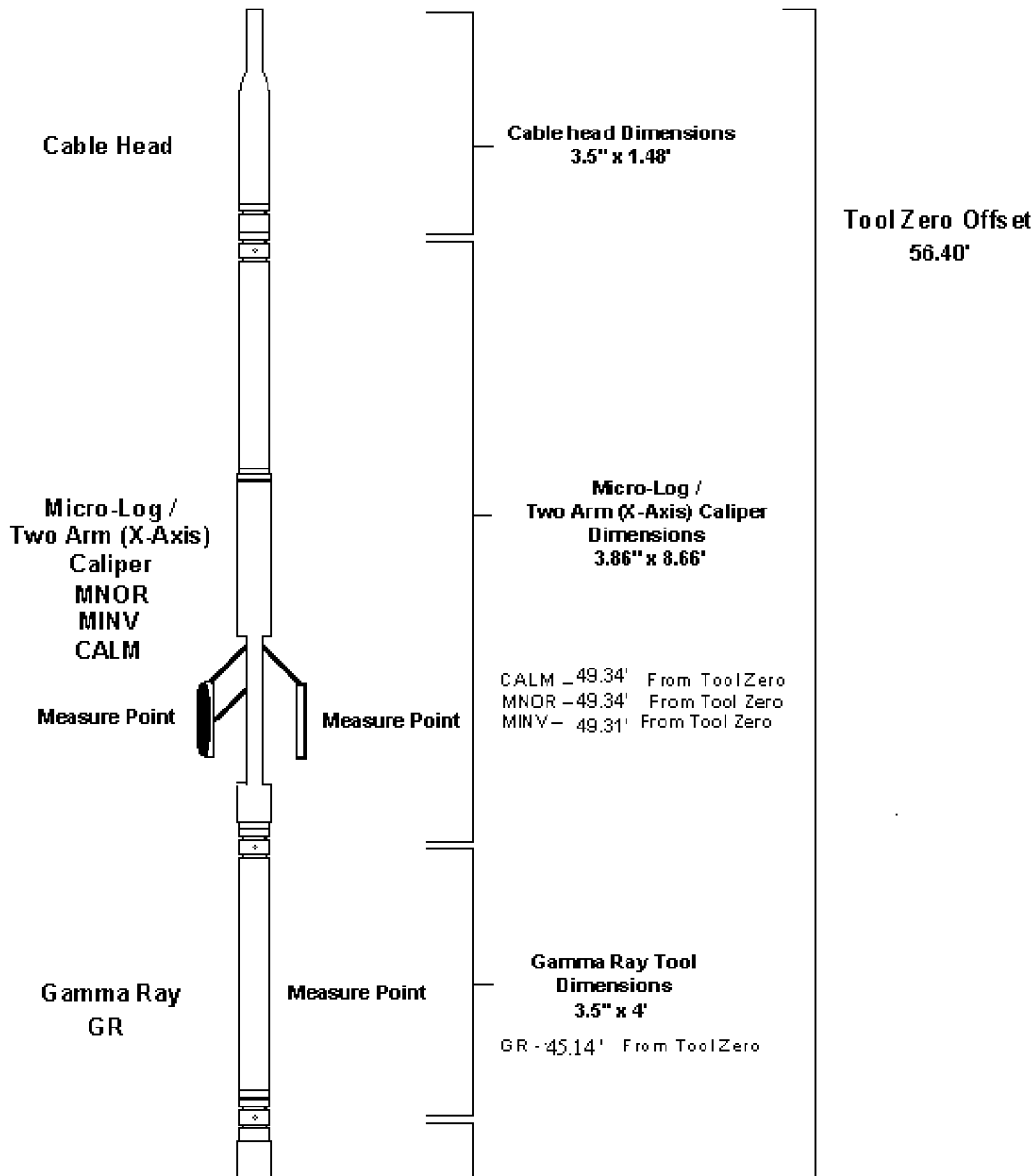
CEMENT VOLUME CALCULATIONS SUMMARY

Tool Type	LDT-CNT	Caliper Type X-Y CALIPERS		
Tool Serial #	RN2008 / RL4107			
	Borehole Total	Annular Volume with Casing	From Depth (MKb)	To Depth (MKb)
VOLUMES	516.830 Cubic Feet	265.784 Cubic Feet	4000	TD 5497

CASING INFORMATION

	SIZE (in)	GRADE	WEIGHT (lbs/ft)	ID (in)	TOP DEPTH	BOT DEPTH
SURFACE CASING	8 5/8	J-55	24	8.097	Surface	425
INTERMEDIATE CASING	N/A	N/A	N/A	N/A	N/A	N/A
PRODUCTION CASING	5 1/2	J-55	17	4.825	Surface	TD

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



Compensated Neutron
Y - Axis Caliper
NP (SS,LS,DL)
CALY

Compensated Neutron
Y-Axis Caliper
Dimensions
3.98" x 10.25'

CALY - 37.14' From ToolZero
CNL LS - 36.32' From ToolZero
CNL SS - 35.73' From ToolZero

Measure Point

Digital Telemetry

Digital Telemetry Section
Dimensions
3.5" x 3.15'

Tool String
Length Total
57.89'

Compensated
Litho-Density (Pe)
X - Axis Caliper

Compensated Litho-Density
X-Axis Caliper
Dimensions
3.98" x 9.35'

DP(SS,LS,DL)
RHOB
DRHO
PE
CALX
Measure Point

CALX - 23.20' From ToolZero
LDT w1 -
LDT w2 - 22.93' From ToolZero
LDT w3 -
LDT w4 -
LDT SS - 22.44' From ToolZero

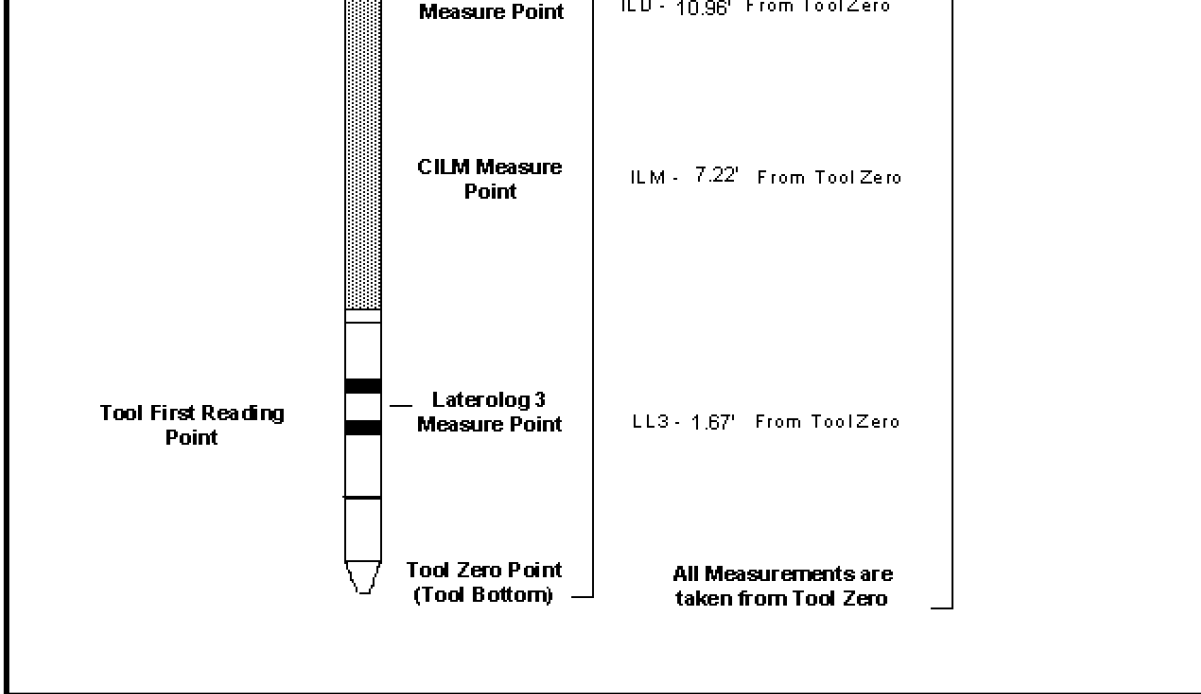
Dual Induction

SP
ILD
ILM
LL3

Dual Induction Tool
Dimensions
3.62" x 21'

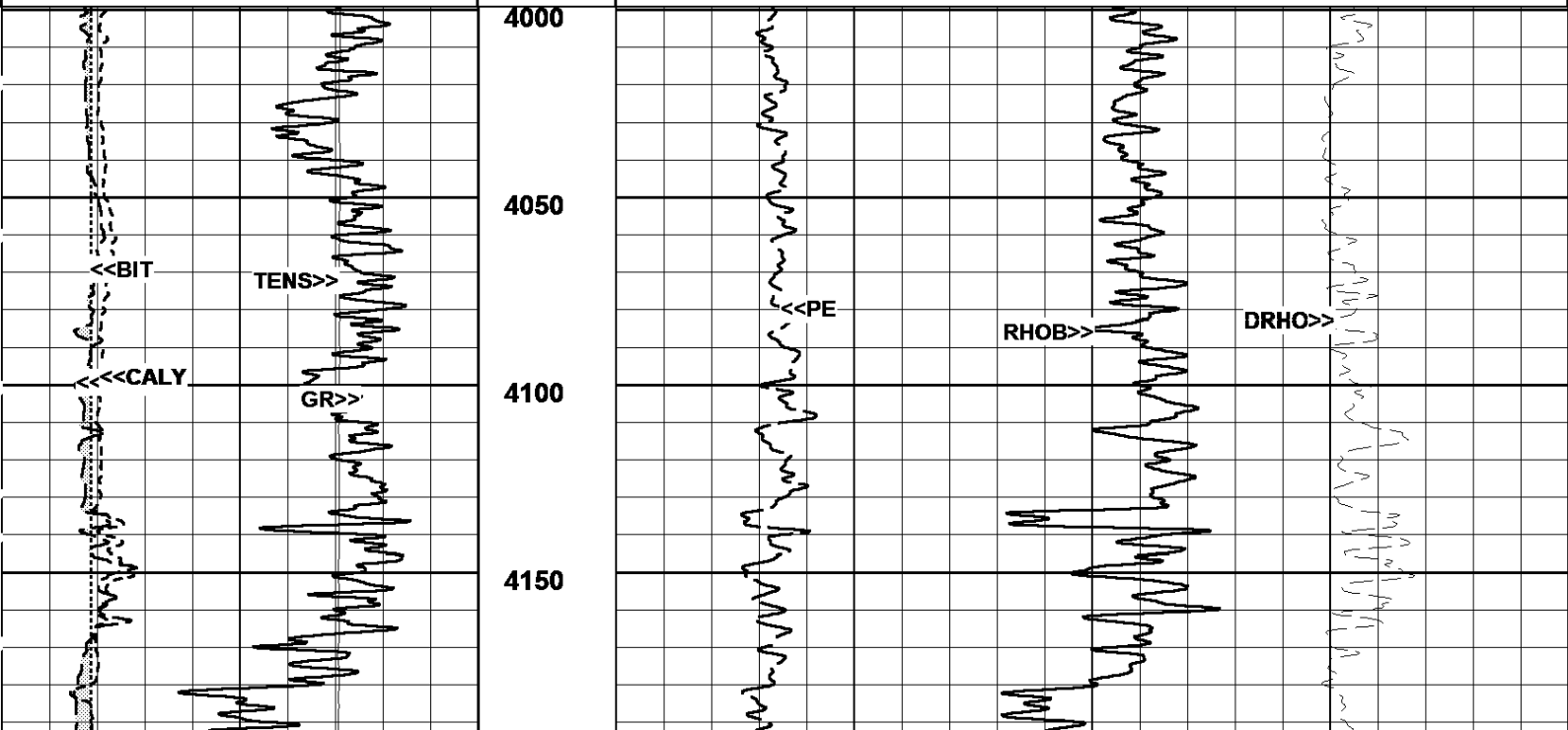
SP - 10.96' From ToolZero

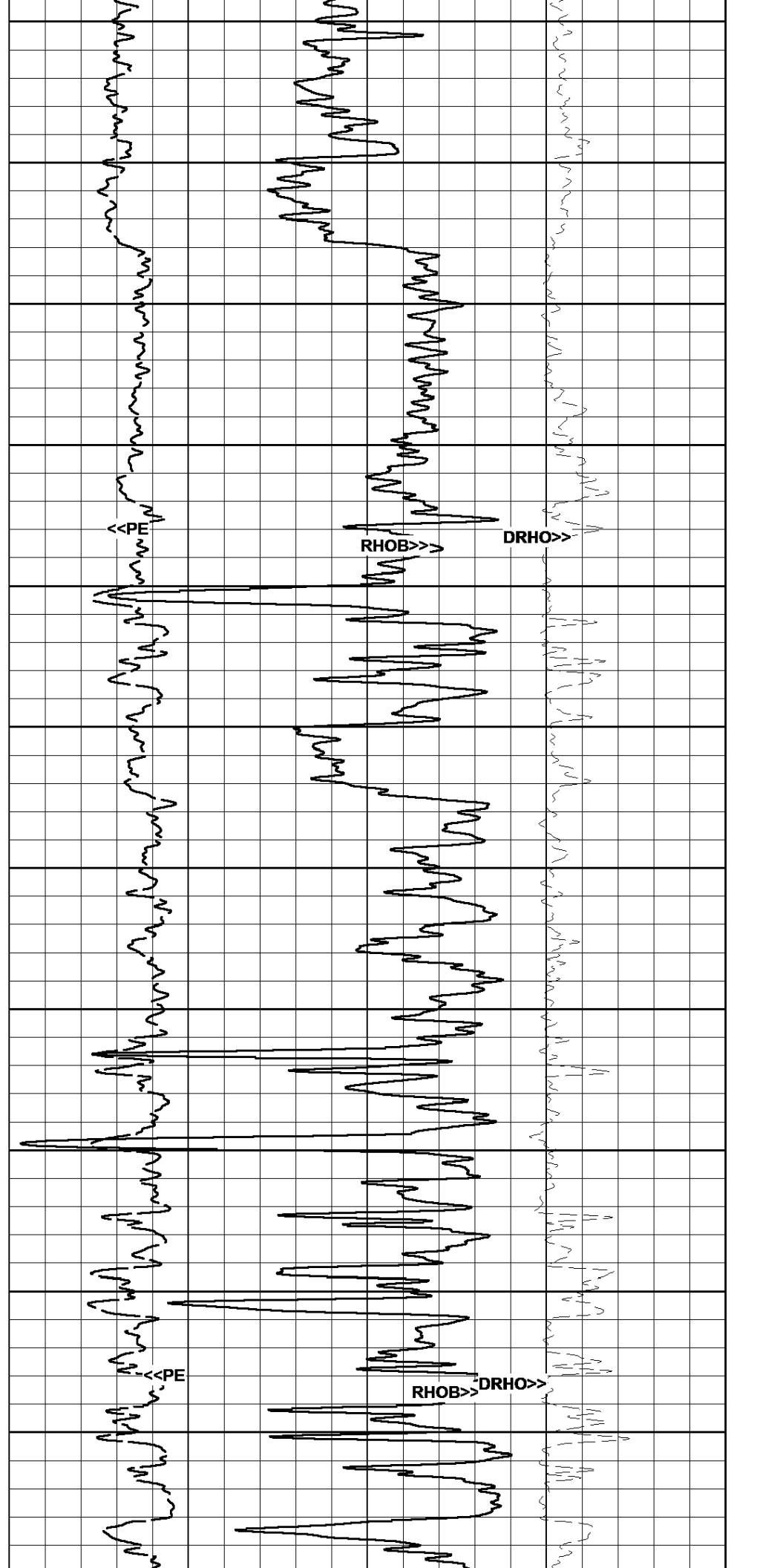
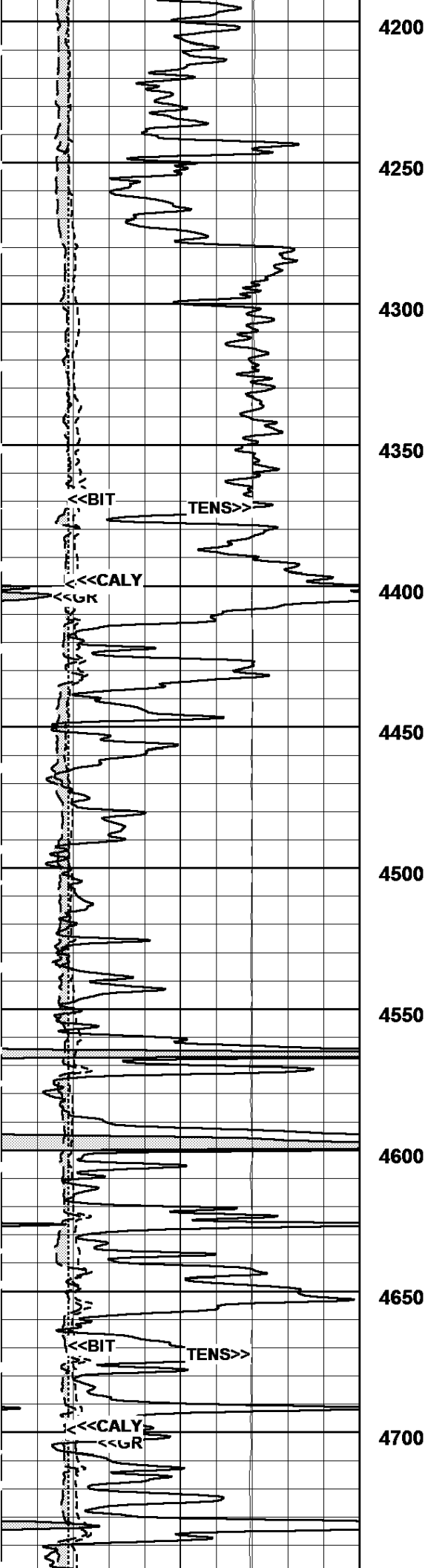
S.P. / CILD

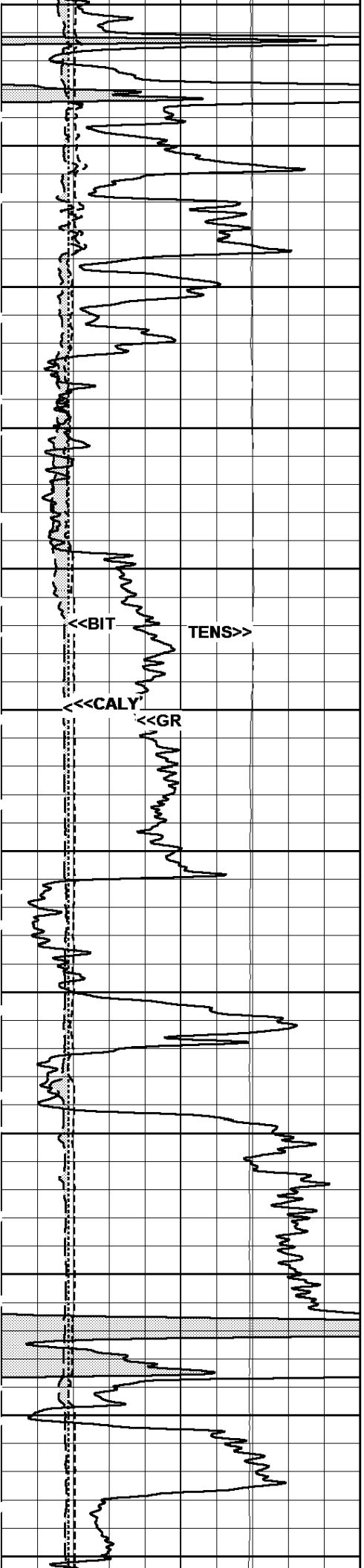


04/29/2012 **MAIN PASS - RHOB (2"/100Ft)** Log UP - (VER 11.08)
 18:25:12 => End Time End Depth=> 3999.75 Feet

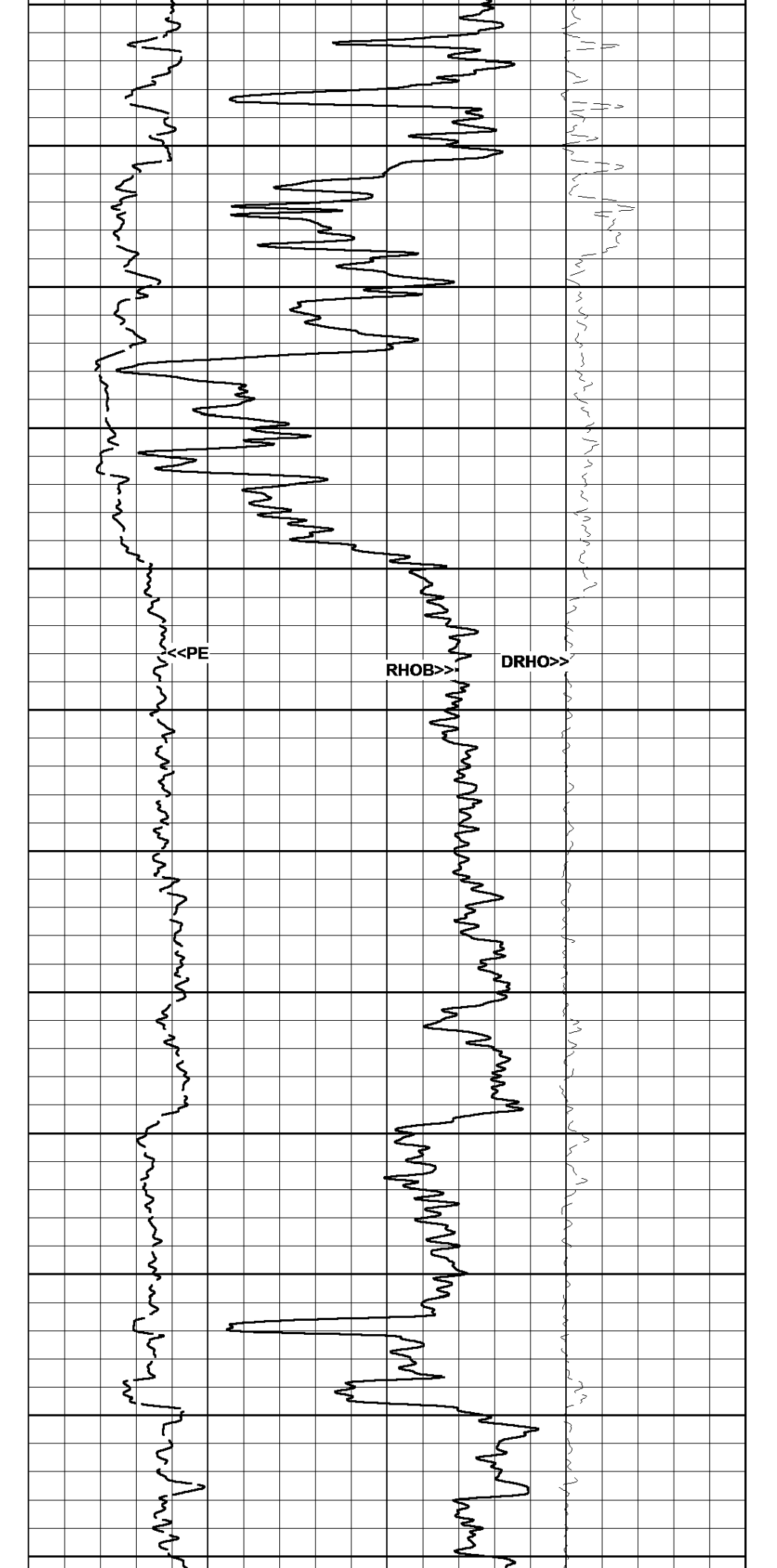
Bit Size (BIT)		Photo Electric (PE)		Delta RHO (DRHO)	
6.	Ref in	0.	Barns/Elect	10.	-0.5 g/cc
16.					0.5
Tension (TENS)		Bulk Density (RHOB)			
10000.	Lbs	0.	2.		g/cc
					3.
Y-Caliper (CALY)					
6.	in				
16.					
X-Caliper (CALX)					
6.	in				
16.					
Gamma Ray (GR)					
0.	API				
150.					

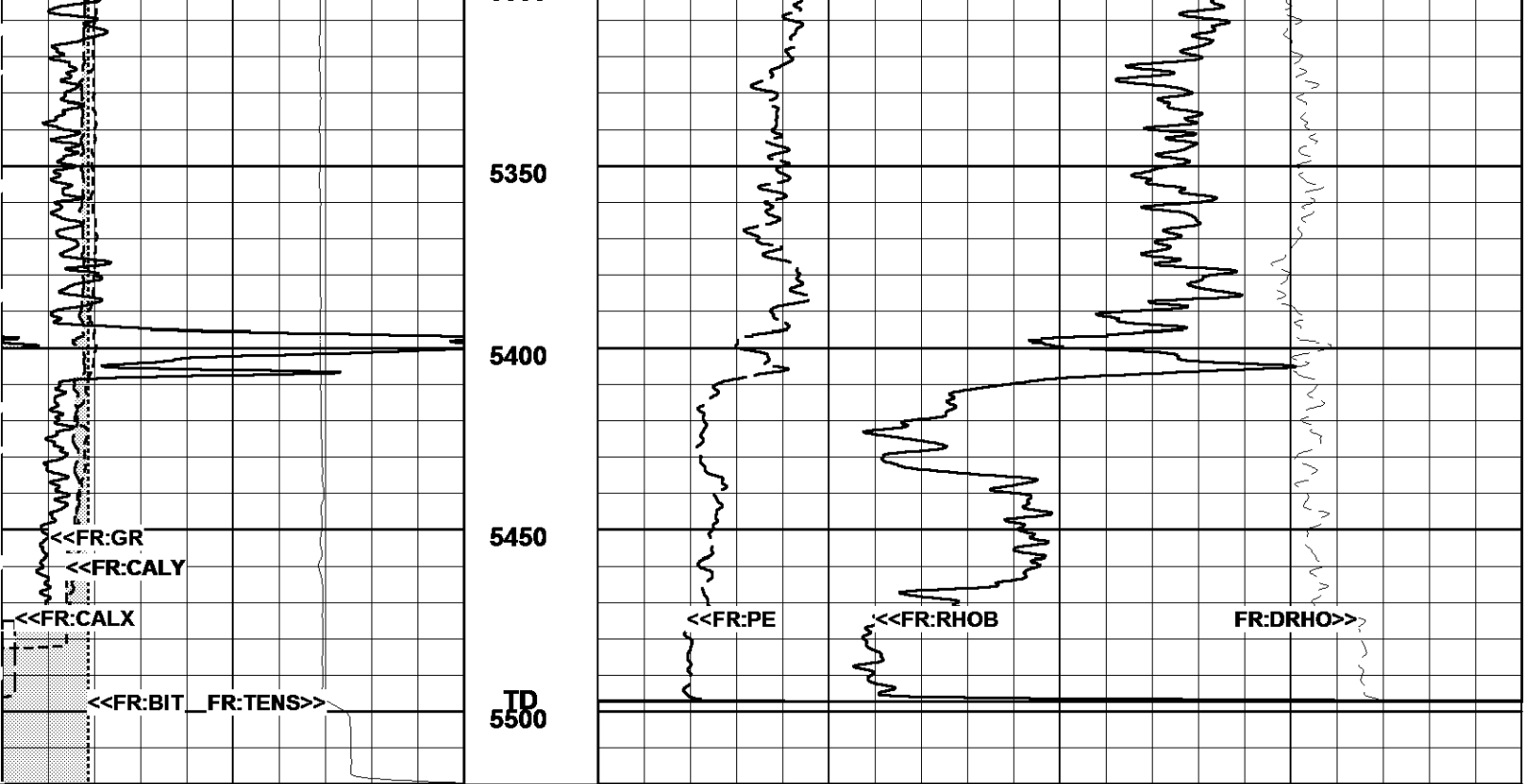






4750
4800
4850
4900
4950
5000
5050
5100
5150
5200
5250
5300





Gamma Ray (GR)		
0.	API	150.
X-Caliper (CALX)		
6.	in	16.
Y-Caliper (CALY)		
6.	in	16.
Tension (TENS)		
10000.	Lbs	0.
Bit Size (BIT)		
6.	Ref in	16.

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

04/29/2012
16:52:36 => Start Time

MAIN PASS - RHOB (2"/100Ft)

Log UP - (VER 11.08)
Start Depth=> 5520.00 Feet

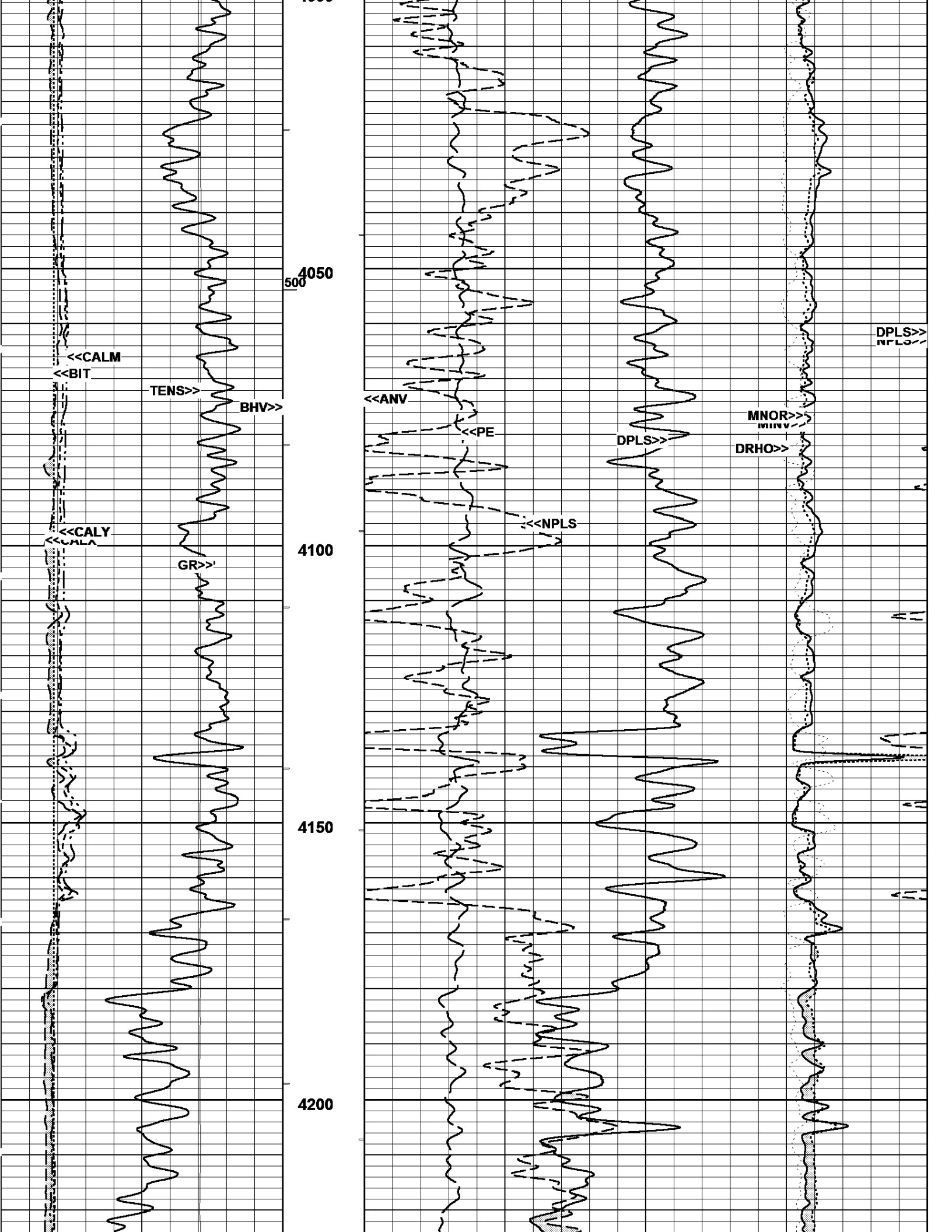
04/29/2012
18:25:12 => End Time

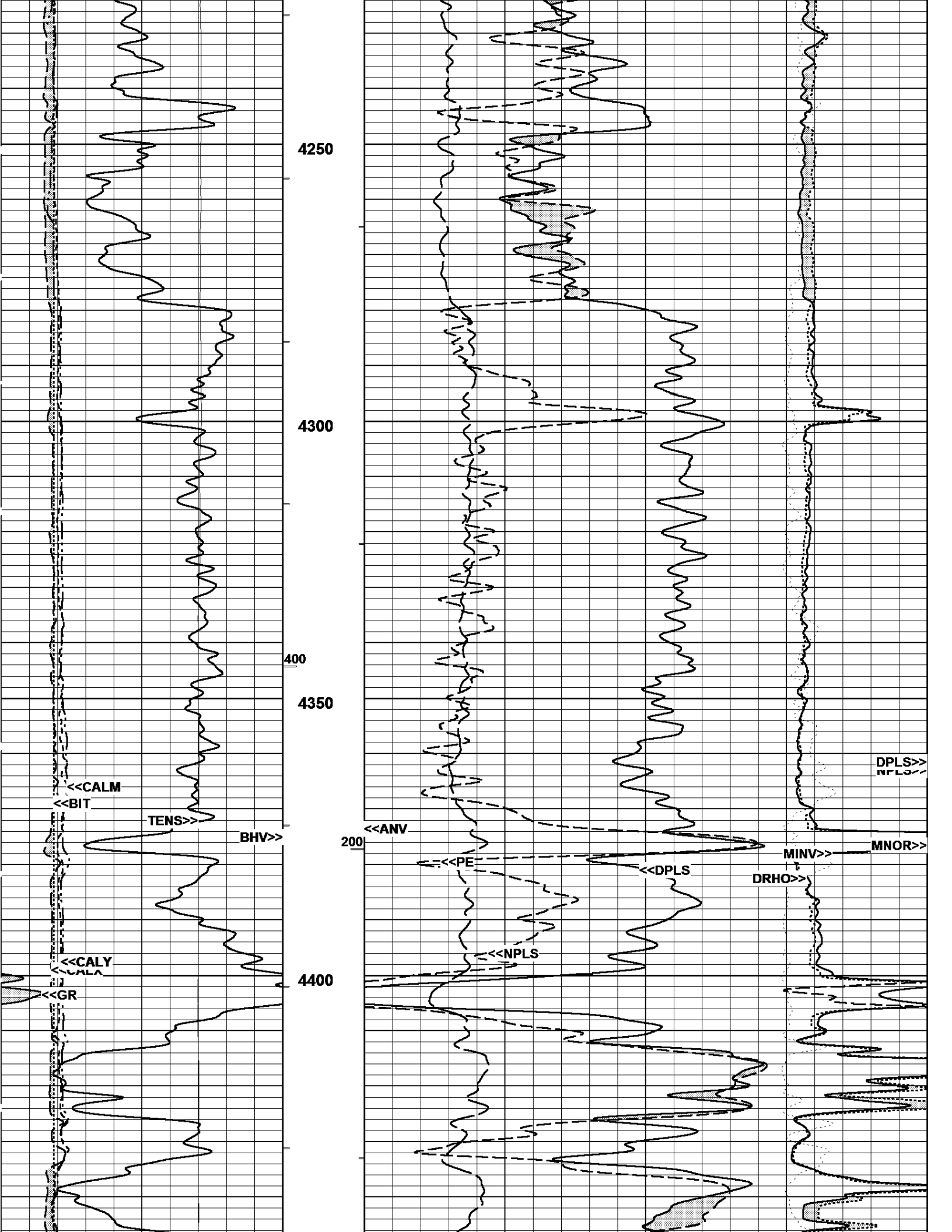
MAIN PASS - LIMESTONE (5"/100Ft)

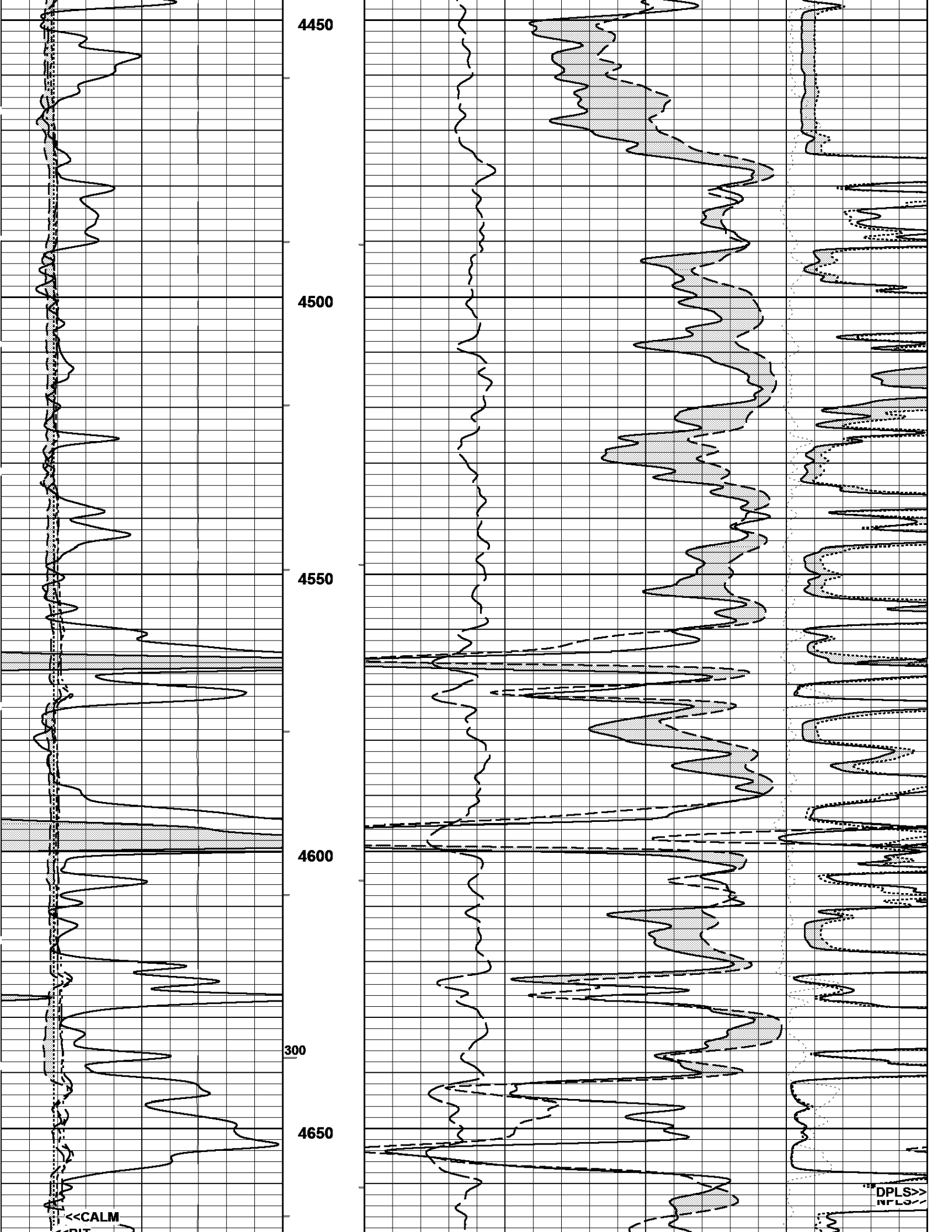
Log UP - (VER 11.08)
End Depth=> 3999.90 Feet

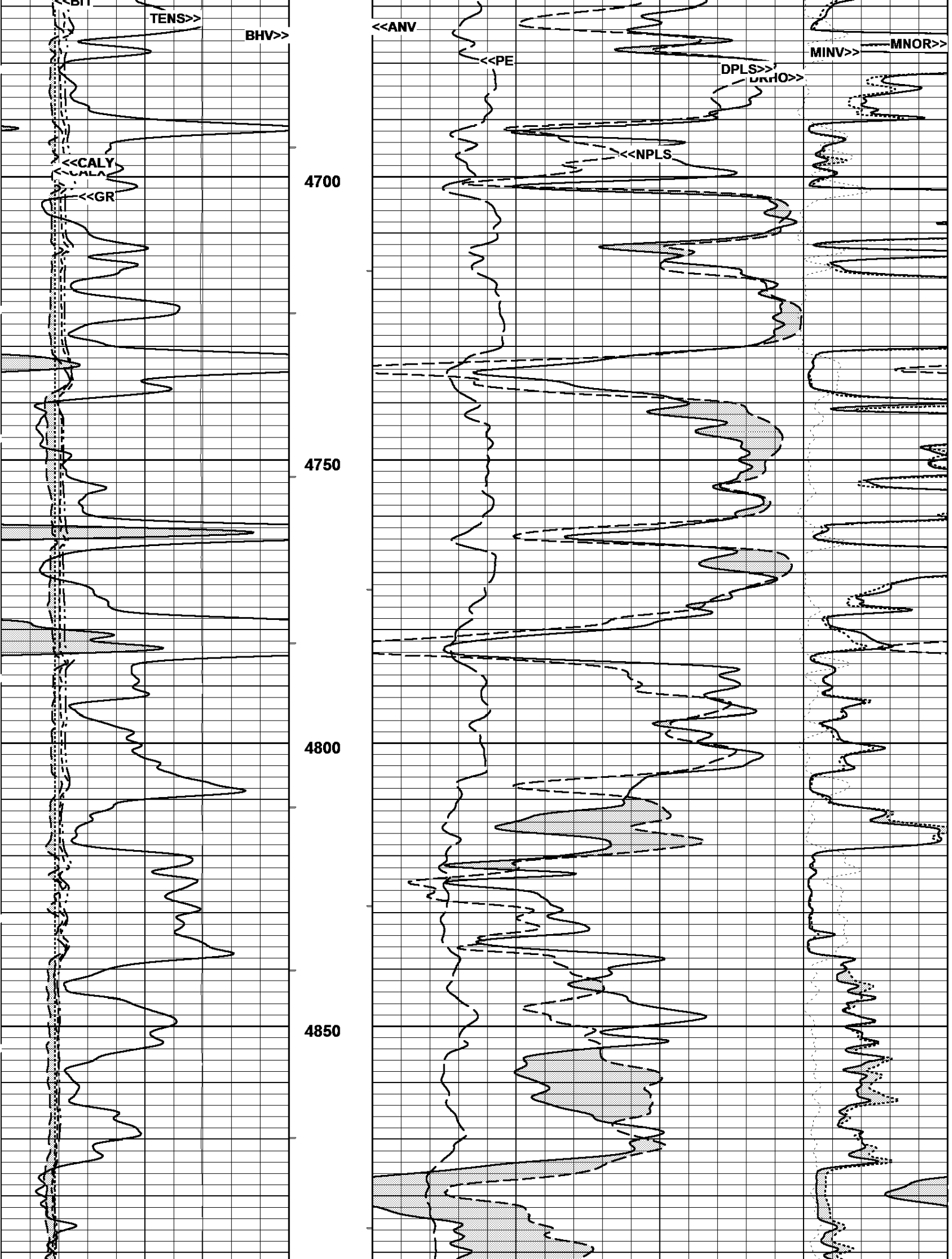
Microlog-Caliper		
6.	in	16.
Bit Size (BIT)		
6.	Ref in	16.
Tension (TENS)		
10000.	Lbs	0.
Y-Caliper (CALY)		
6.	in	16.
X-Caliper (CALX)		
6.	in	16.
Gamma Ray (GR)		
0.	API	150.

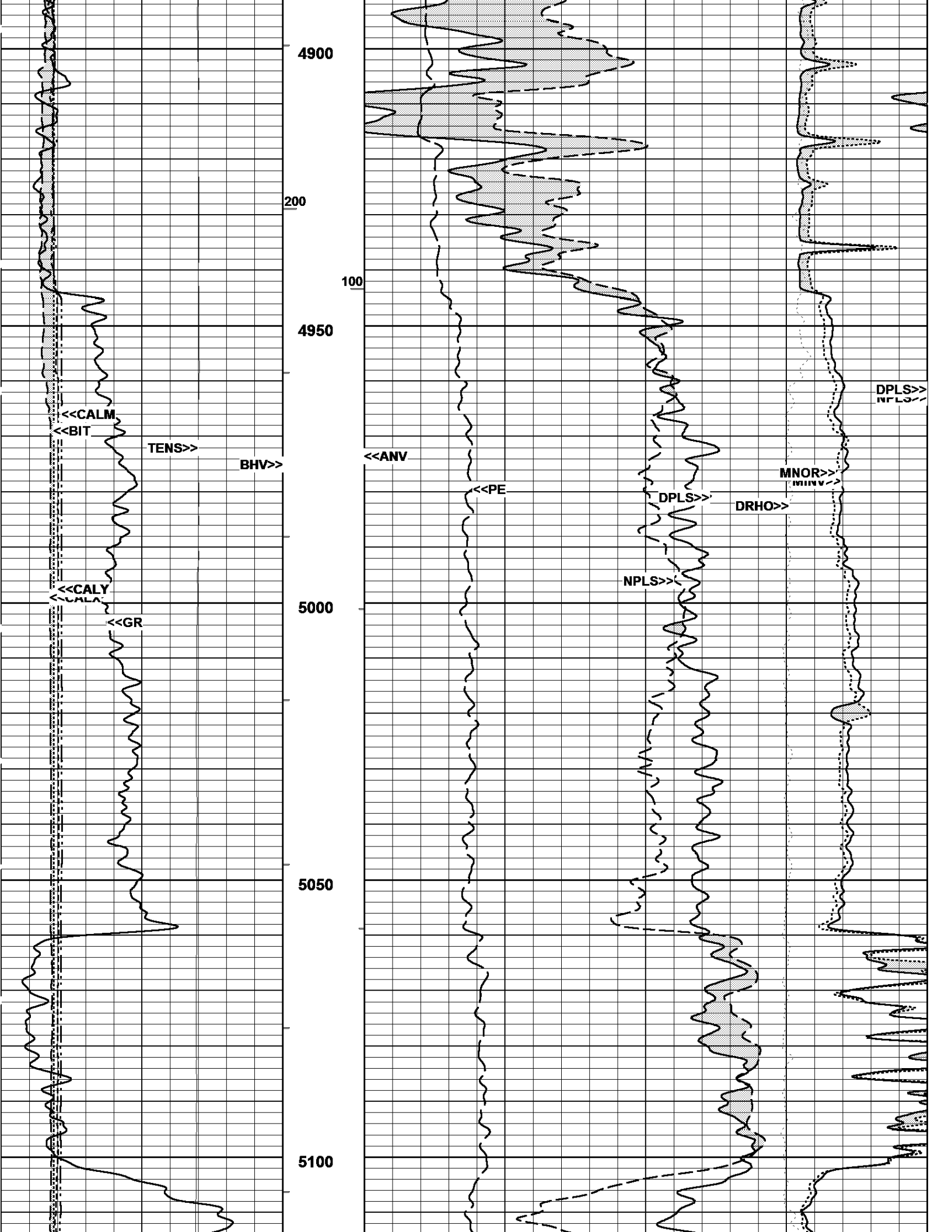
Micro-Normal{2"} (MNOR)		
-40.	ohms	40.
Micro-Inverse{1"} (MINV)		
-40.	ohms	40.
Photo Electric (PE)		Delta RHO (DRHO)
0.	Barns/Elect	10. -0.5 g/cc 0.5
Density-Porosity (DPLS)		
30.	Limestone-Matrix (V/V)	-10.
Neutron-Porosity (NPLS)		
30.	Limestone-Matrix (V/V)	-10.

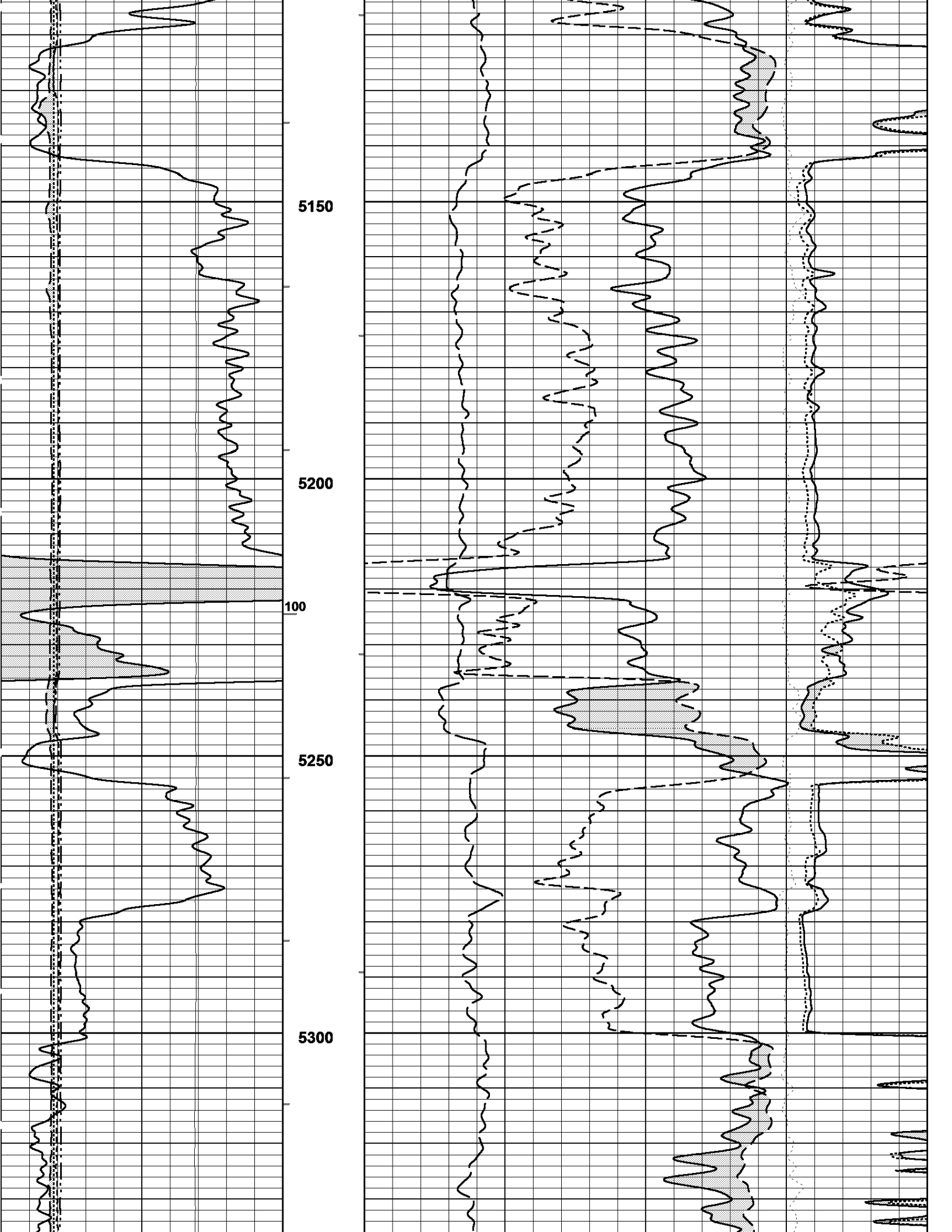


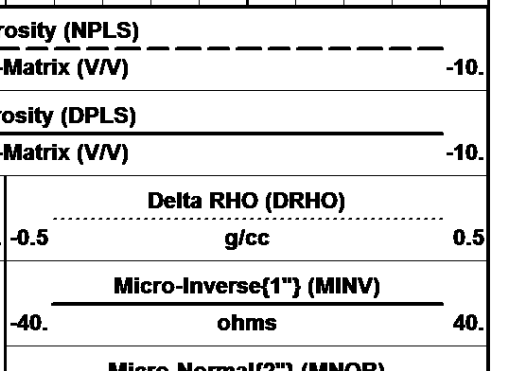
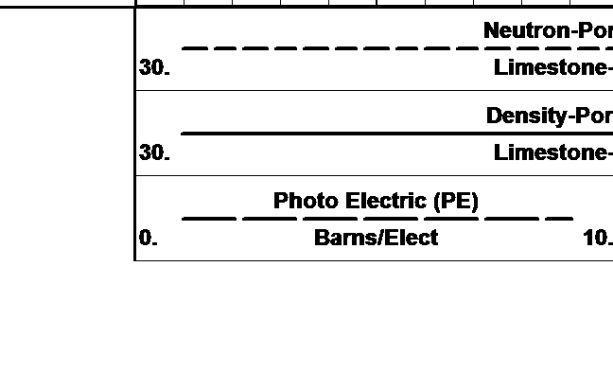
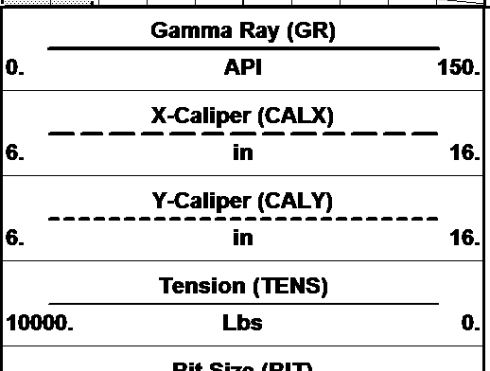
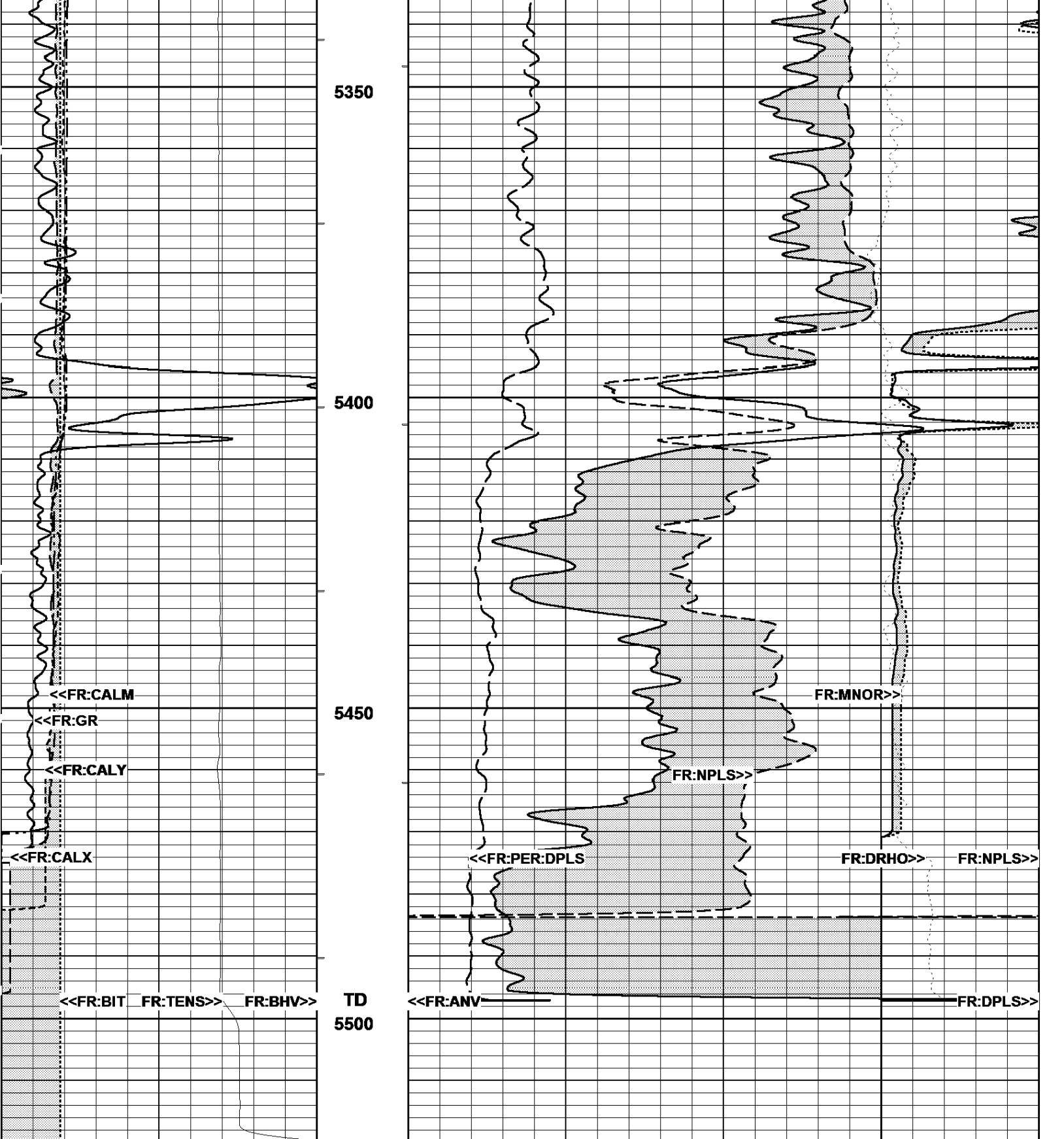












6.	Bit Size (BIT)	16.
	Ref in	
6.	Microlog-Caliper	16.
	in	

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

04/29/2012 **MAIN PASS - LIMESTONE (5"/100Ft)** Log UP - (VER 11.08)
 16:52:36 => Start Time Start Depth=> 5520.00 Feet

04/29/2012 **REPEAT PASS - LIMESTONE (5"/100Ft)** Log UP - (VER 11.08)
 16:46:46 => End Time End Depth=> 5182.40 Feet

6.	Microlog-Caliper	16.
	in	
6.	Bit Size (BIT)	16.
	Ref in	
10000.	Tension (TENS)	0.
	Lbs	
6.	Y-Caliper (CALY)	16.
	in	
6.	X-Caliper (CALX)	16.
	in	
0.	Gamma Ray (GR)	150.
	API	

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

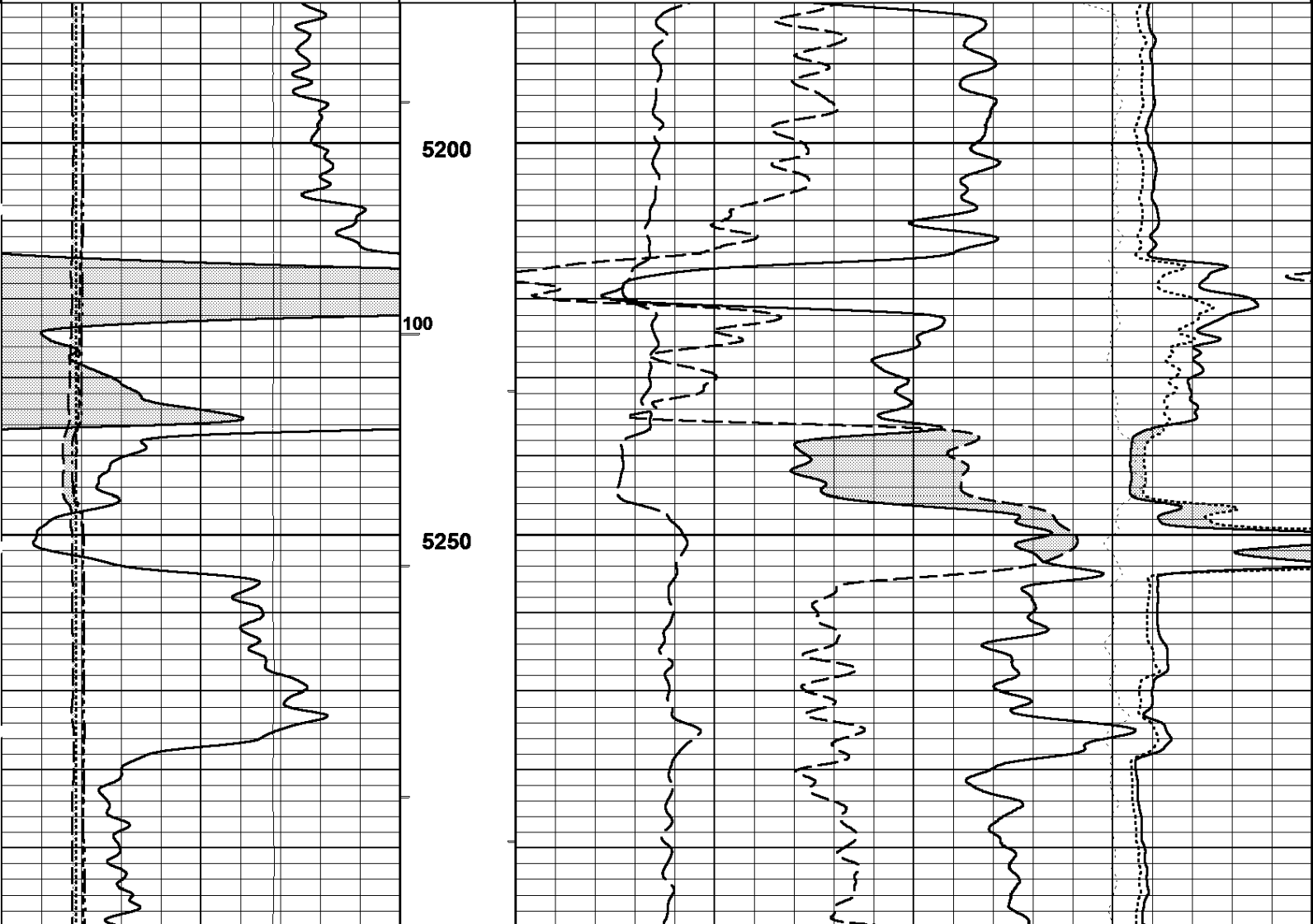
-40.	Micro-Inverse{1"} (MINV)	40.
	ohms	

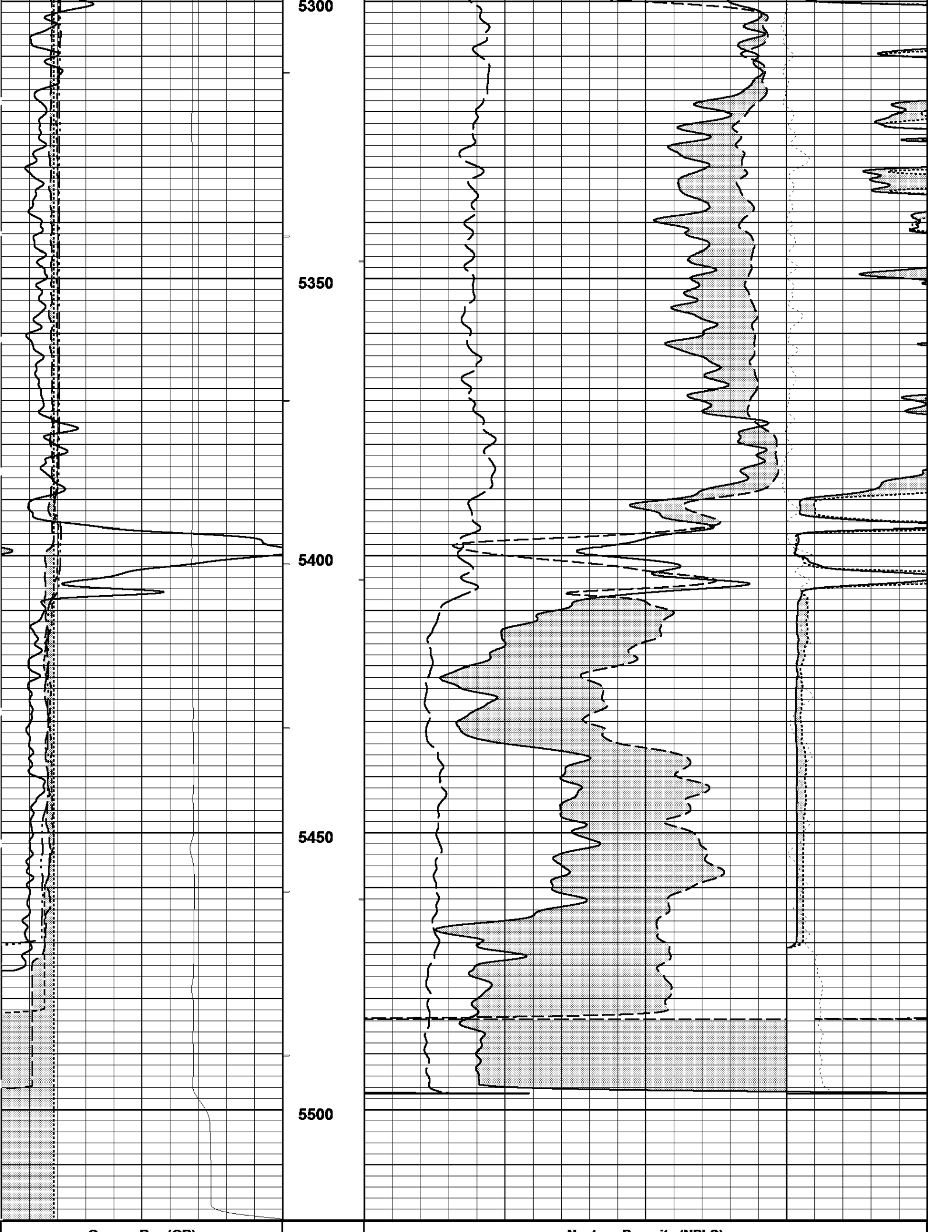
0.	Photo Electric (PE)	10.
	Barns/Elect	

-0.5	Delta RHO (DRHO)	0.5
	g/cc	

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

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





0.	Gamma Ray (GR)	150.	30.	Neutron-Porosity (NPLS)	-10.
	API			Limestone-Matrix (V/V)	
6.	X-Caliper (CALX)	16.		Density-Porosity (DPLS)	
	in		30.	Limestone-Matrix (V/V)	-10.
6.	Y-Caliper (CALY)	16.	0.	Photo Electric (PE)	10.
	in			Barns/Elect	-0.5
10000.	Tension (TENS)	0.		Delta RHO (DRHO)	0.5
	Lbs			Micro-Inverse{1"} (MINV)	-40.
6.	Bit Size (BIT)	16.		ohms	40.
	Ref in			Micro-Normal{2"} (MNOR)	-40.
6.	Microlog-Caliper	16.		ohms	40.
	in				

04/29/2012 **REPEAT PASS - LIMESTONE (5"/100ft)** Log UP - (VER 11.08)
16:36:54 => Start Time Start Depth=> 5520.00 Feet

Litho-Density/PE Calibrations

TOOL TYPE: LFDC/Pe SOURCE TYPE: CESIUM 137 SOURCE STRGTH: 2 CURIE
SERIAL NUM: RL4107 SOURCE NUM:

MASTER BLOCK CALIBRATIONS

	W1(cps)	W2(cps)	W3(cps)	W4(cps)	SS	UNITS	CALIBRATION DATE	CALIBRATION TIME
ALUMINUM	6154.173	5099.187	2380.867	4.753	5654.9333	2.528(g/cc)	M/D/Y> 4/20/2012	H:M:S> 14:30:4
MAGNESIUM	18527.666	14867.281	6237.275	4.928	8275.7633	1.693(g/cc)		
BACKGROUND	1719.813	1521.747	992.720	4.673	4.4800			
SAND	18535.255	14850.676	6210.221	5.007		1.800(PE)		
IRON	5403.720	4567.533	2217.240	4.173		4.600(PE)		
FIELD VERIFIER(cps)	1692.000	1497.760	1026.880	4.600	4.1600			
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: RN2002 SOURCE NUM:

MASTER TANK CALIBRATIONS

		NEAR(cps)	FAR(cps)	RATIO	K VALUE	CALIBRATION DATE	CALIBRATION TIME
LOW PHI	3.150			0.5200	0.7915	M/D/Y> 7/11/2011	H:M:S> 16:15:13
MED PHI	19.130			0.8909	0.7915		
HIGH PHI	31.300			1.0679	0.7916		

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	RG3010
BLANKET NUM	1A

MASTER CALIBRATIONS

	BackGrnd	CalVal: 122.000 API	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	112.627 - raw	699.200 - raw	0.208 - gain 0.000 - off	M/D/Y> 2/1/2012	H:M:S> 8:47:22

WELL SITE CALIBRATIONS

	BackGrnd	CalVal: 100.000 Mknu	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
PRE CAL	-0.059 - raw	26.967 - raw	3.700 - gain	M/D/Y> 11/12/2004	H:M:S> 12:40:27

X CALIPER

SERIAL NUM	RL4107

MASTER CALIBRATIONS

	ZeroVal: 6.000 mm	CalVal: 10.000 mm	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	4480.798 - raw	6368.637 - raw	0.002 - gain -3.494 - off	M/D/Y> 9/21/2011	H:M:S> 11:54:23

Y CALIPER CALIBRATIONS

SERIAL NUM	RN2002

MASTER CALIBRATIONS

	ZeroVal: 6.000 mm	CalVal: 12.000 mm	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	1142.560 - raw	2310.576 - raw	0.005 - gain 0.131 - off	M/D/Y> 7/11/2011	H:M:S> 16:15:34

MICRO NORMAL CALIBRATIONS

SERIAL NUM	RM8006

MASTER CALIBRATIONS

	ZeroVal: 0.200 ohmm	CalVal: 10.000 ohmm	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	40.840 - raw	405.560 - raw	0.027 - gain -0.897 - off	M/D/Y> 2/10/2012	H:M:S> 13:13:22

MICRO INVERSE CALIBRATIONS

SERIAL NUM

RM8006

MASTER CALIBRATIONS

	ZeroVal: 0.200 ohmm	CaIVal: 10.000 ohmm	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	16.461 - raw	292.800 - raw	0.035 - gain -0.384 - off	M/D/Y> 2/10/2012	H:M:S> 13:7:37

Company

VAUGHN GOOD OIL COMPANY

Well

NUSSER #2-16

Field

SE HARDNER

County

BARBER

State

KANSAS

The logo for RECON, featuring the word "RECON" in a bold, italicized, sans-serif font, enclosed within a rectangular border.

COMPENSATED NEUTRON
LITHOLOGY DENSITY
GAMMA RAY XY-CALIPER
MICROLOG

The logo for RECON PETROTECHNOLOGIES LTD, featuring the word "RECON" in a large, bold, italicized, sans-serif font, with "PETROTECHNOLOGIES LTD" in a smaller, bold, sans-serif font below it, all enclosed within a rectangular border.

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