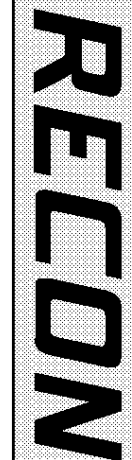


Company VAUGHN GOOD OIL COMPANY
Well NUSSER #5-16
Field S.E. HARDTNER
County BARBER
State KANSAS



MICROLOG
GAMMA RAY
X-Y CALIPER

SEC	TWP	RGE	OTHER SERVICES:	
16	03S	12W	DIL	LDT
Location. 1290' FNL & 1155' FWL			CNL	
SURF. SAME		SE NW NW	ELEVATIONS	
		AP# 015-007-24061-0000	K.B. 1414	G.L. 1401
Permanent Datum		Ground Level	Elev	1401
Log Measured From		Kelly Bushing		D.F. 1412
Drilling Measured From		Kelly Bushing		

Date	15-SEP-2013				
Run No.	ONE				
TD Driller	5675	ft		ft	
TD RECON	5669	ft		ft	
Bot Logged Interval	5668	ft		ft	
Top Logged Interval	550	ft		ft	
Casing Depth Driller	8 5/8	in.	@ 376	in.	@
Casing Depth RECON	8 5/8	in.	@ 388	in.	@
Bit Size	7 7/8	in.		in.	
Drilling Fluid Type	CHEM/GEL				
Density	9.4	ppg	65	sec/qt	
Fluid Loss	8.8	cm/30min	10.5	strip	
Source Of Sample	Flowline				
RM @ Measured Temp	0.690	Ohmm	@ 75	Ohmm	@
RMF @ Measured Temp	0.517	Ohmm	@ 75	Ohmm	@
RMC @ Measured Temp	0.862	Ohmm	@ 75	Ohmm	@
RM @ MRT	0.395	Ohmm	@ 136	Ohmm	@
Max Recorded Temp	136	DegF		DegF	
Time Drilling Stopped	15-SEP-2013	04:00			
Time Circulation Stopped	15-SEP-2013	09:00			
Time Logger On Bottom	15-SEP-2013	13:42			
Unit Num	S409	Location	OKLAHOMA CITY, OK		
Recorded By	H. GARCIA				
Witnessed By	MR. V. 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

GENERAL REMARKS SECTION

FIRST RUN IN THE HOLE
CNL AND LDT LOGGED IN A LIMESTONE MATRIX
TOP MARK - 246.7, BOTTOM MARK - 5550.6
CNL/LDT LOGGED MATRIX: 2.71 g/cc.

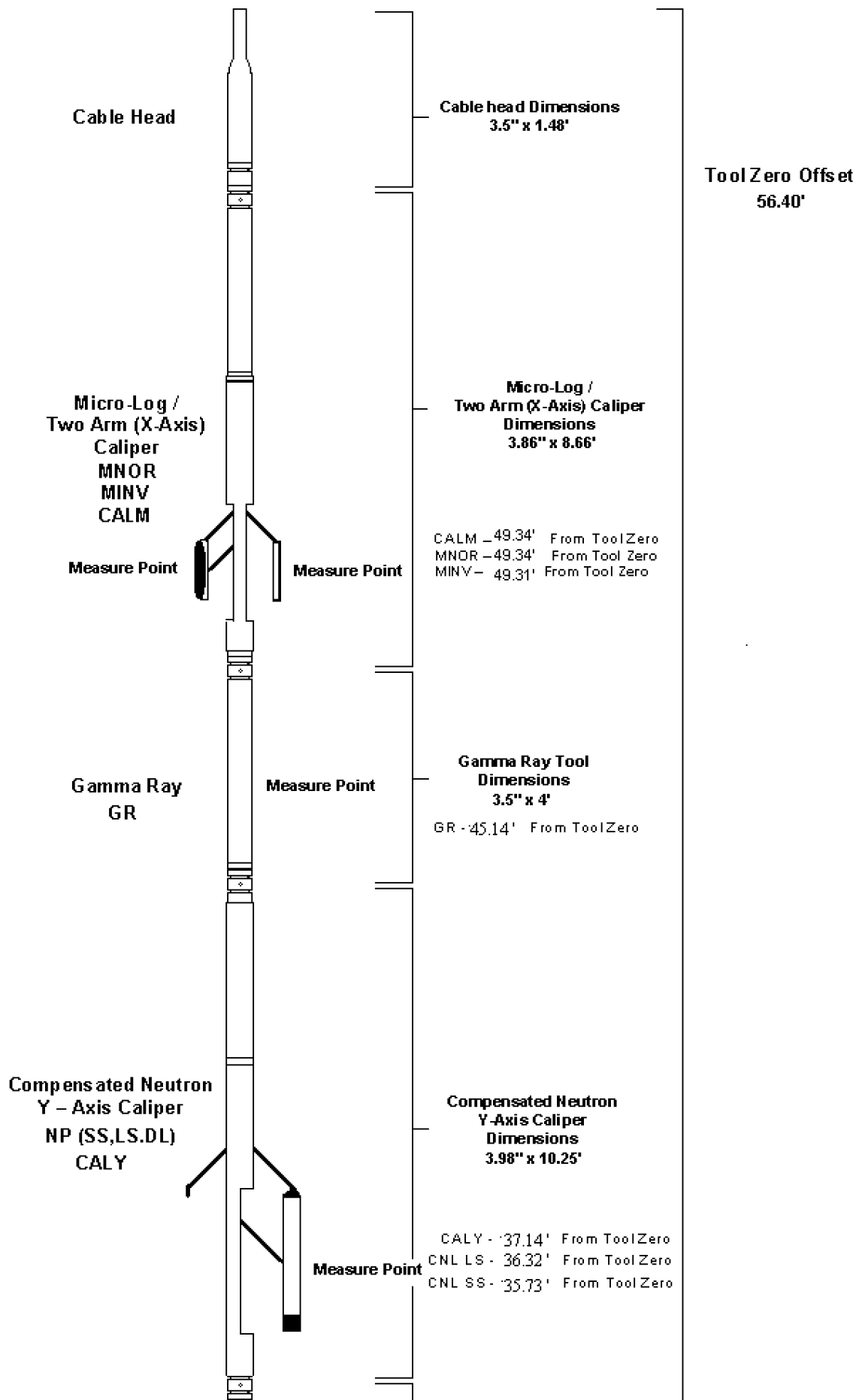
CHLORIDES: 6000 mg/l
LCM: 8 lb/bbl

AHV CALCULATED ON 5.5" PROD. CASING

THANK YOU FOR USING RECON PETROTECHNOLOGIES LTD.

CREW: M. CALLENTINE

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



Digital Telemetry

**Digital Telemetry Section
Dimensions**
3.5" x 3.15'

**Tool String
Length Total**
57.89'

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

Dual Induction

SP
ILD
ILM
LL3

**Dual Induction Tool
Dimensions**
3.62" x 21'

**S.P. / CILD
Measure Point**

SP - 10.96' From ToolZero
ILD - 10.96' From ToolZero

**CILM Measure
Point**

ILM - 7.22' From ToolZero

**Tool First Reading
Point**

**Laterolog 3
Measure Point**

LL3 - 1.67' From ToolZero

**Tool Zero Point
(Tool Bottom)**

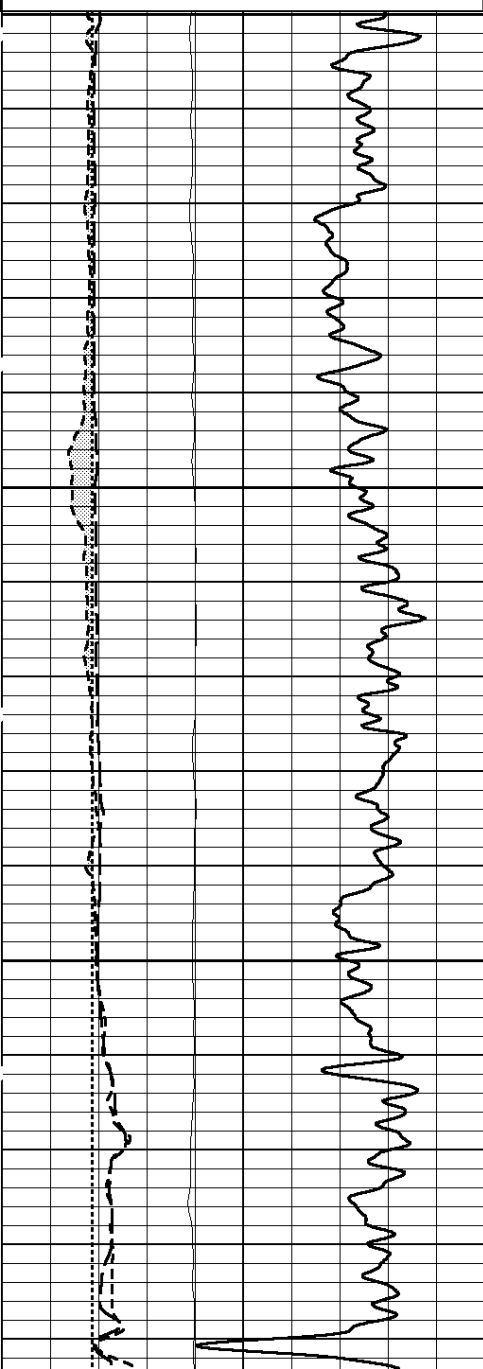
**All Measurements are
taken from Tool Zero**

09/15/2013
16:01:11 => End Time

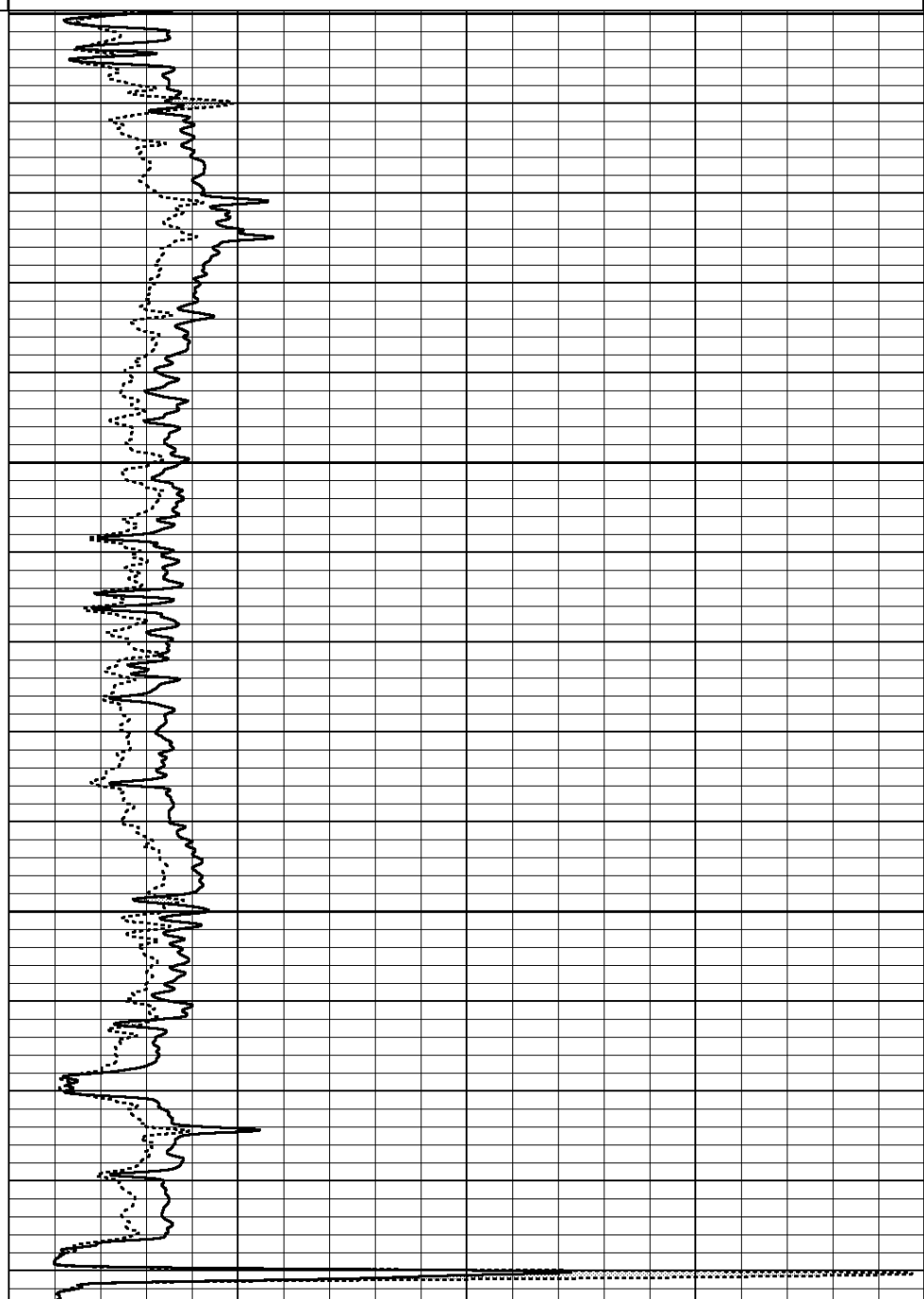
MAIN PASS (5"/100Ft)

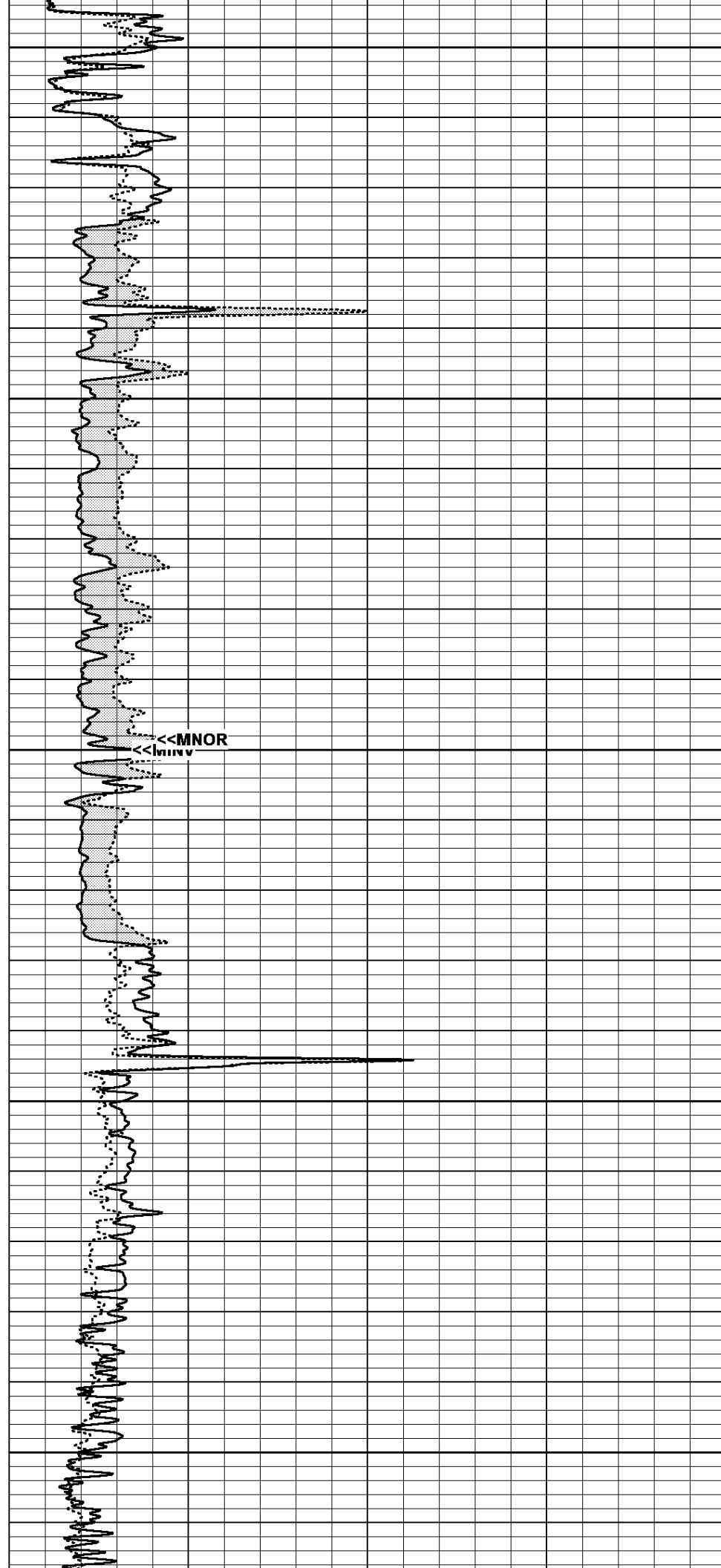
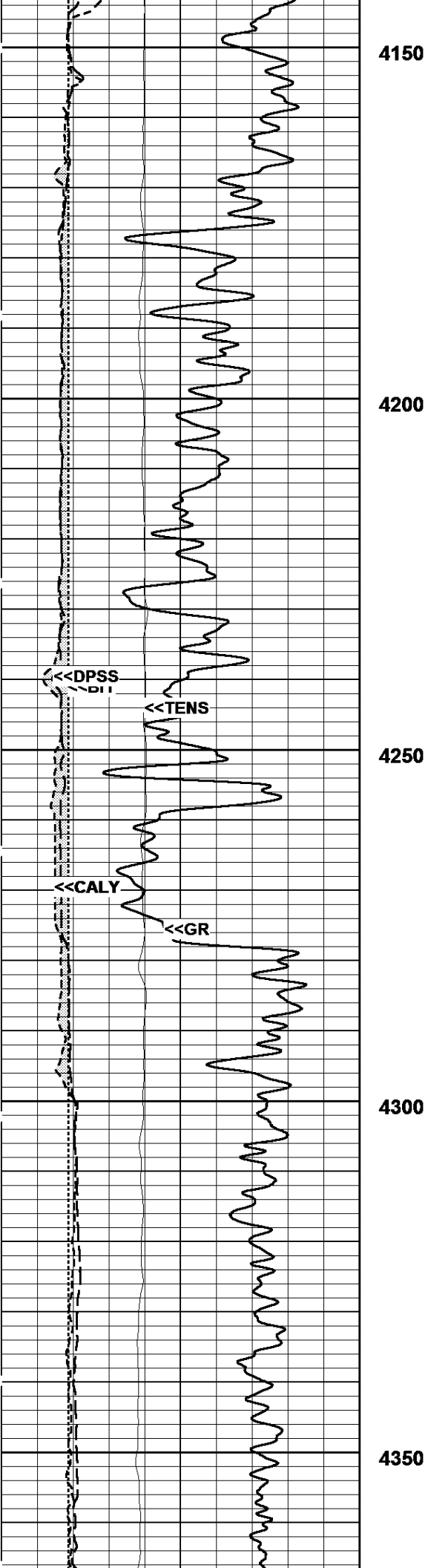
Log UP - (VER 11.14a)
End Depth=> 3999.90 Feet

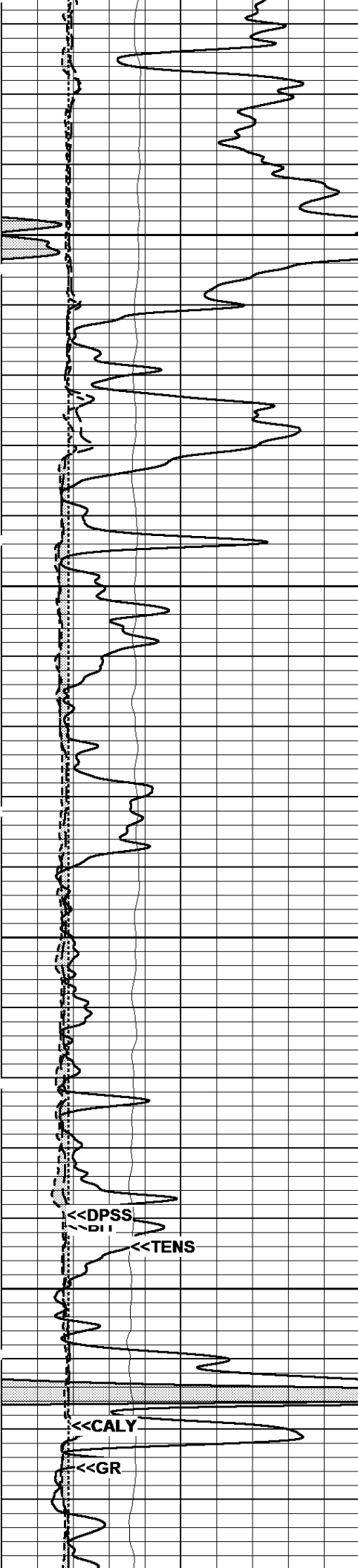
MicroLog-Caliper		
6.	in	16.
Bit Size (BIT)		
6.	Ref in	16.
Tension (TENS)		
5000.	Lbs	0.
Y-Caliper (CALY)		
6.	in	16.
Gamma Ray (GR)		
0.	API	150.



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





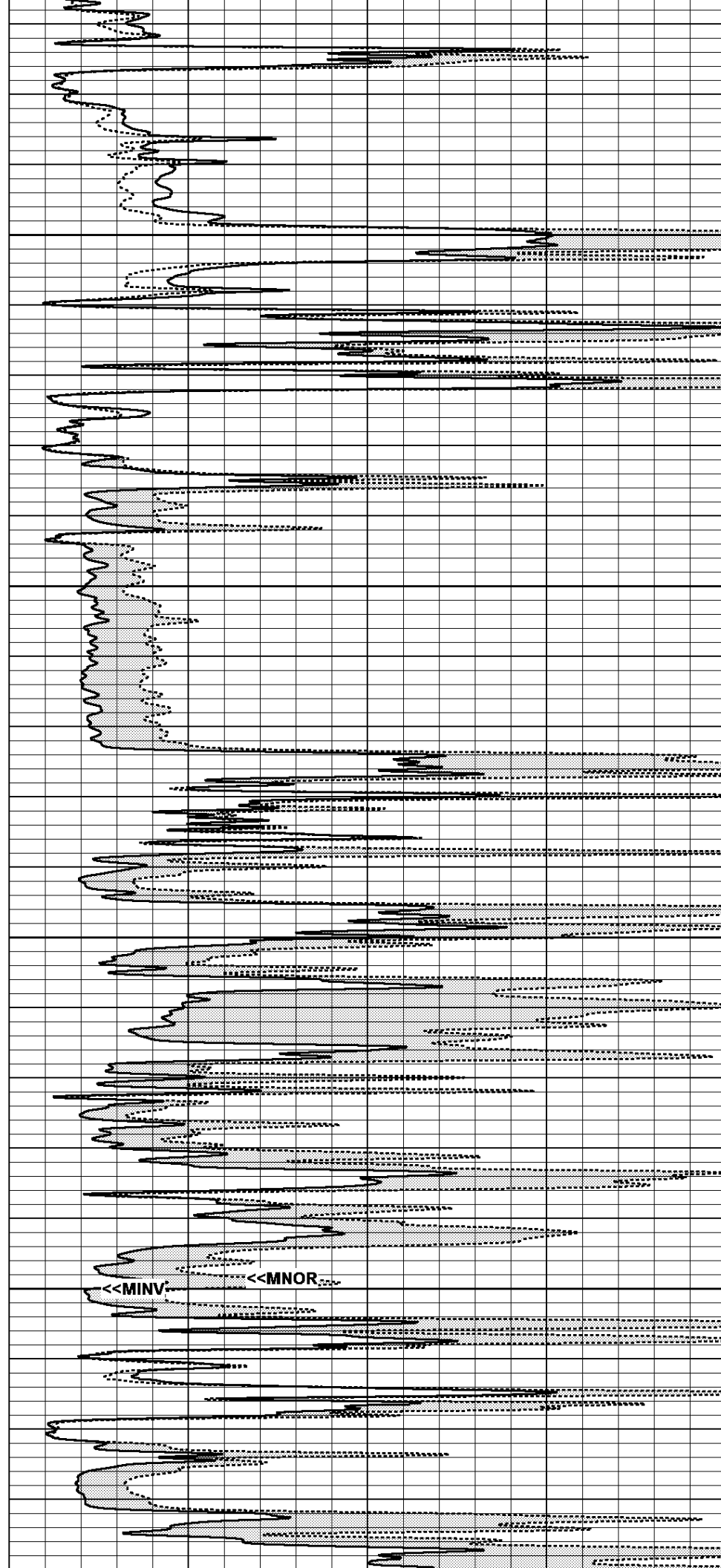


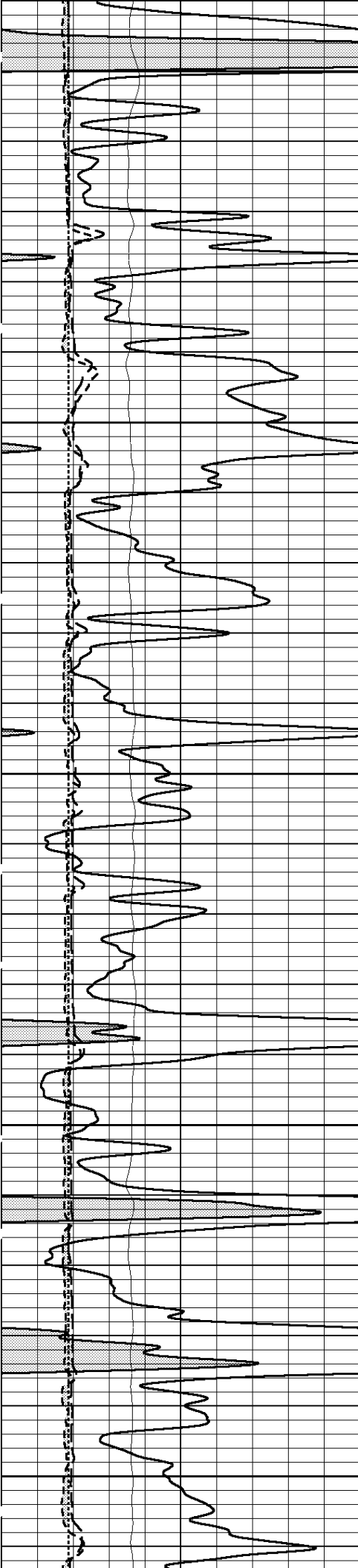
4400

4450

4500

4550





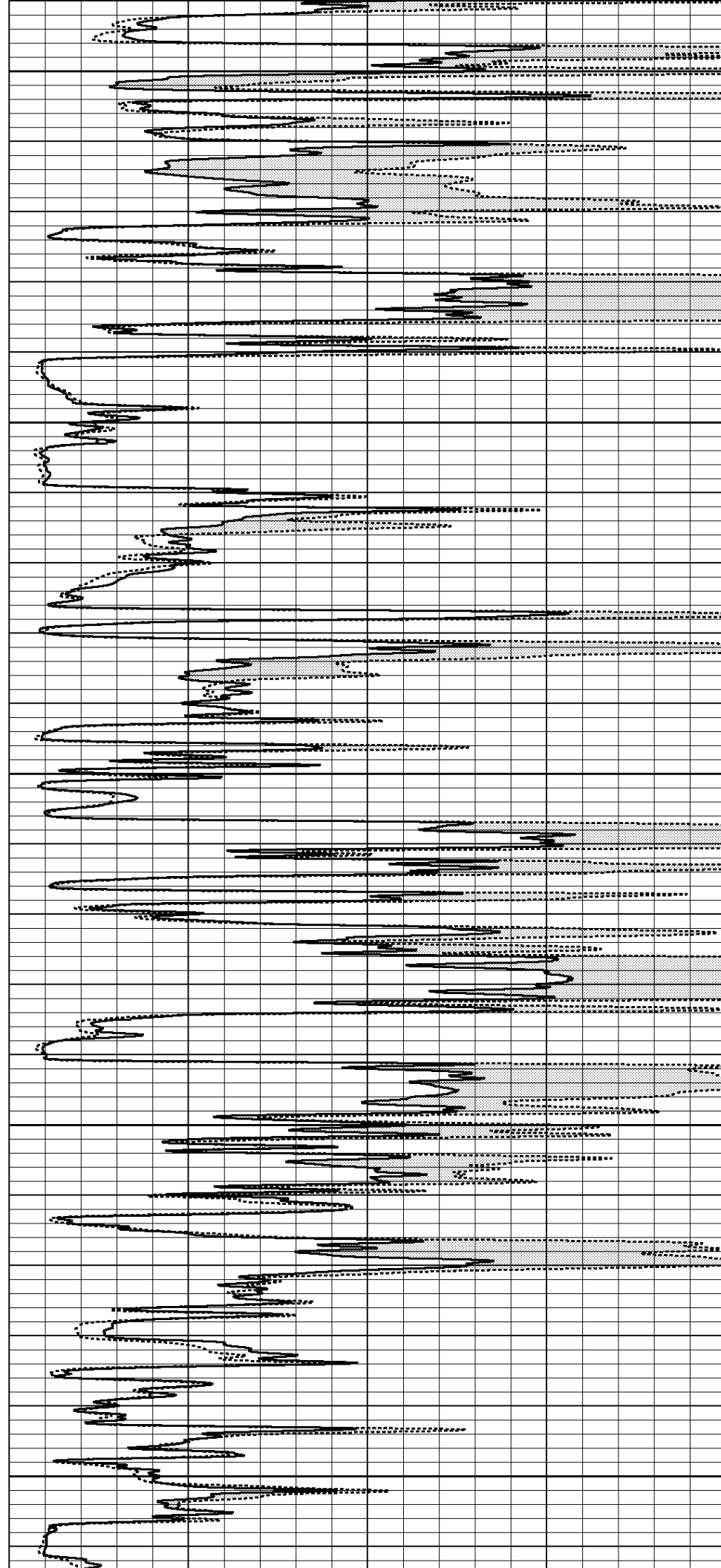
4600

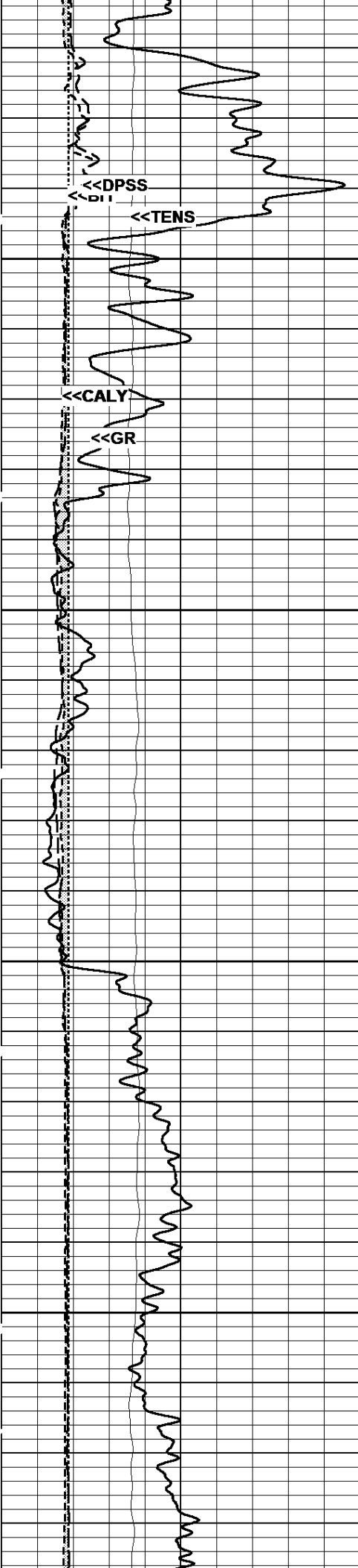
4650

4700

4750

4800



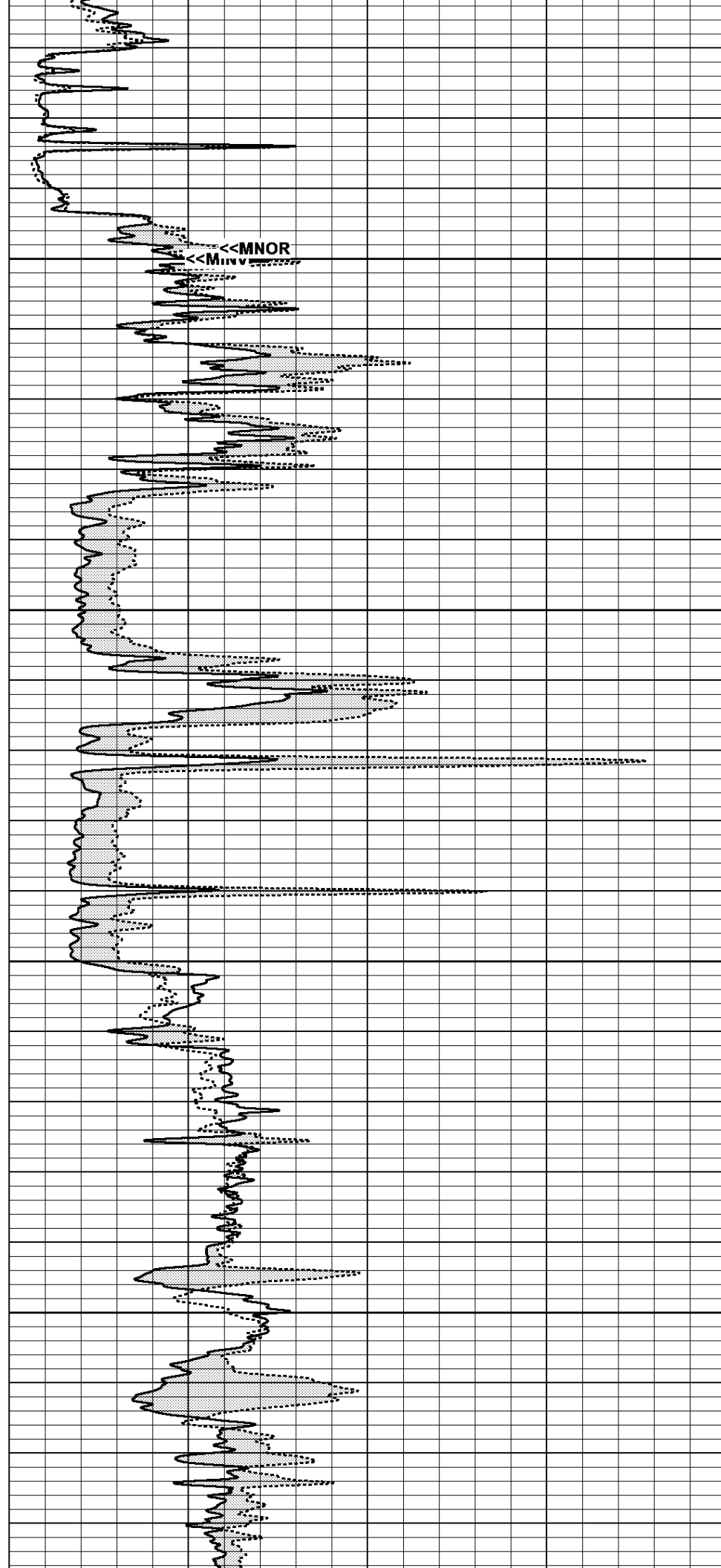


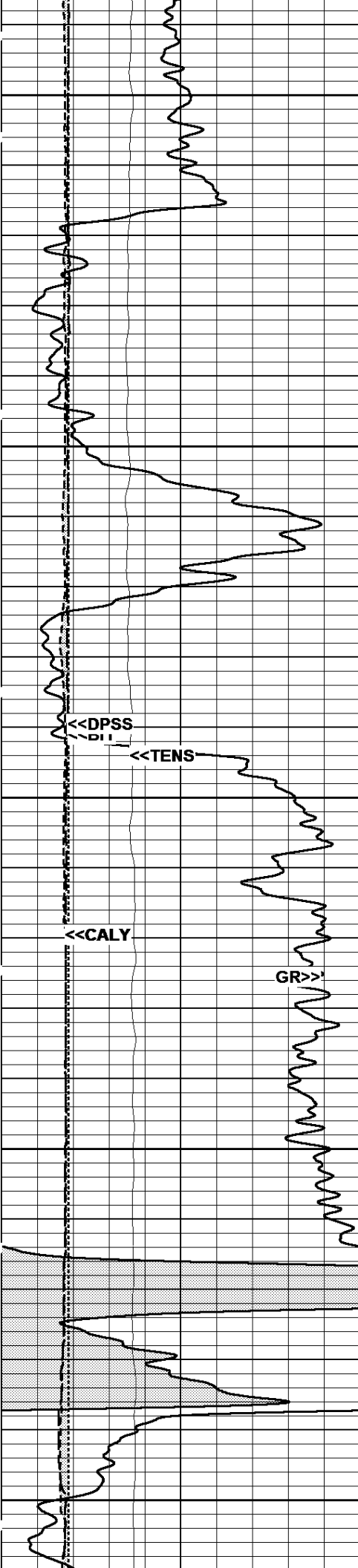
4850

4900

4950

5000





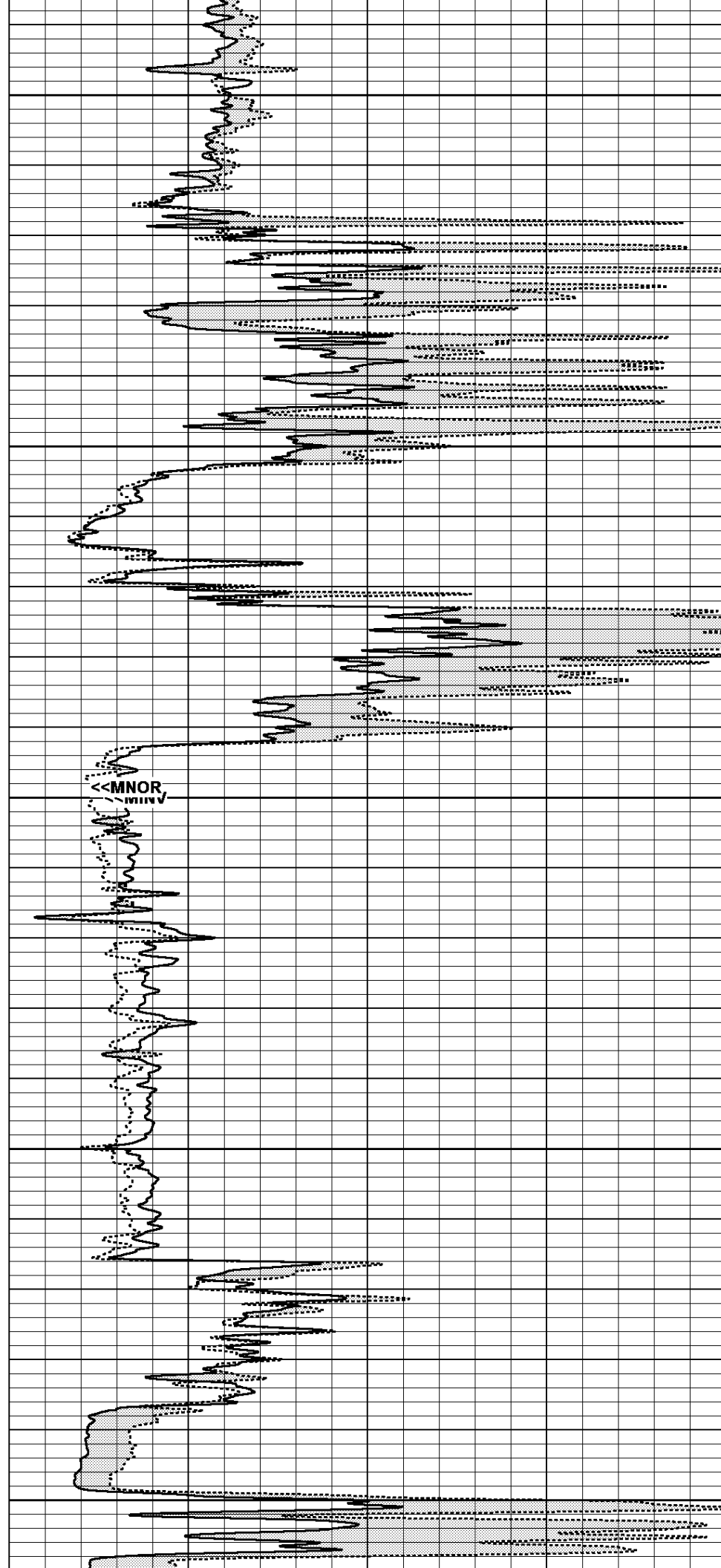
5050

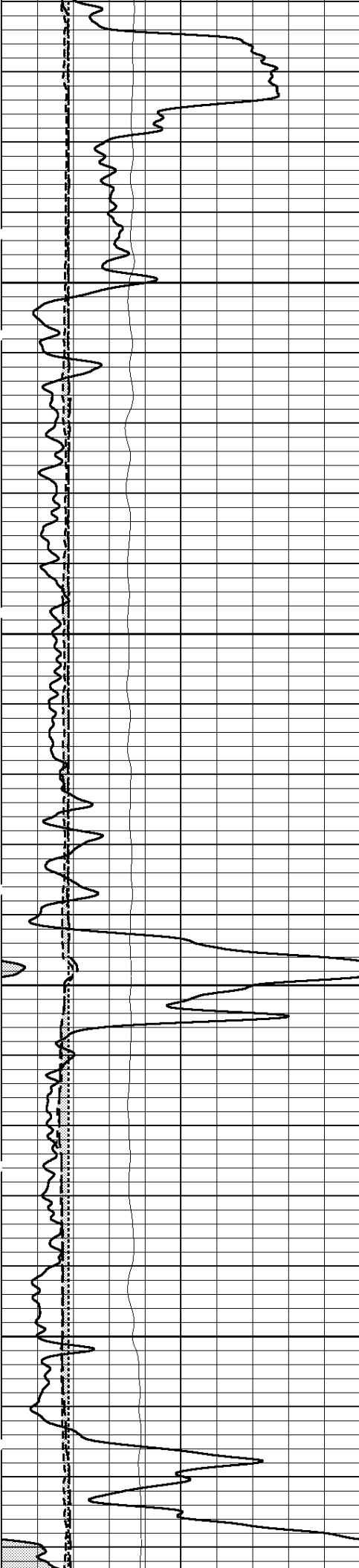
5100

5150

5200

5250



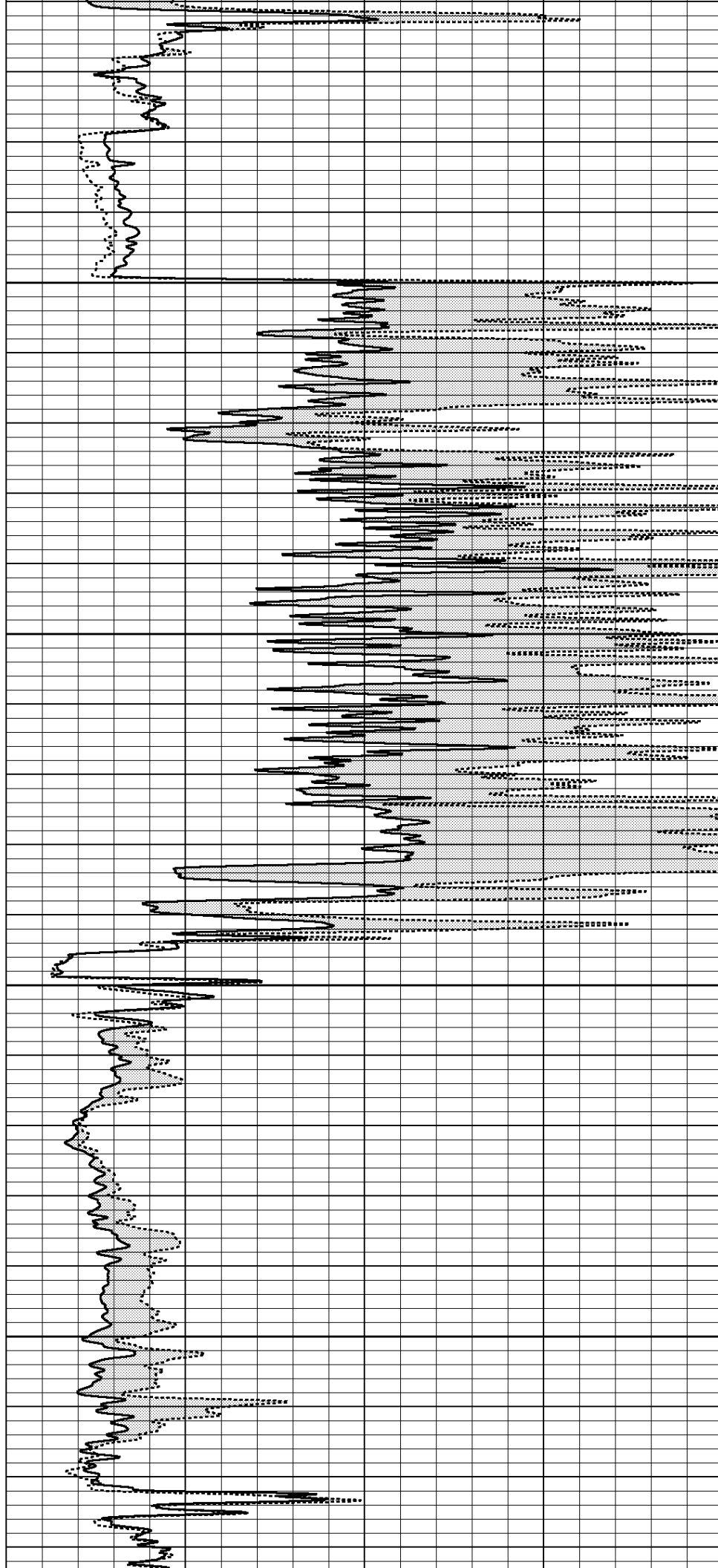


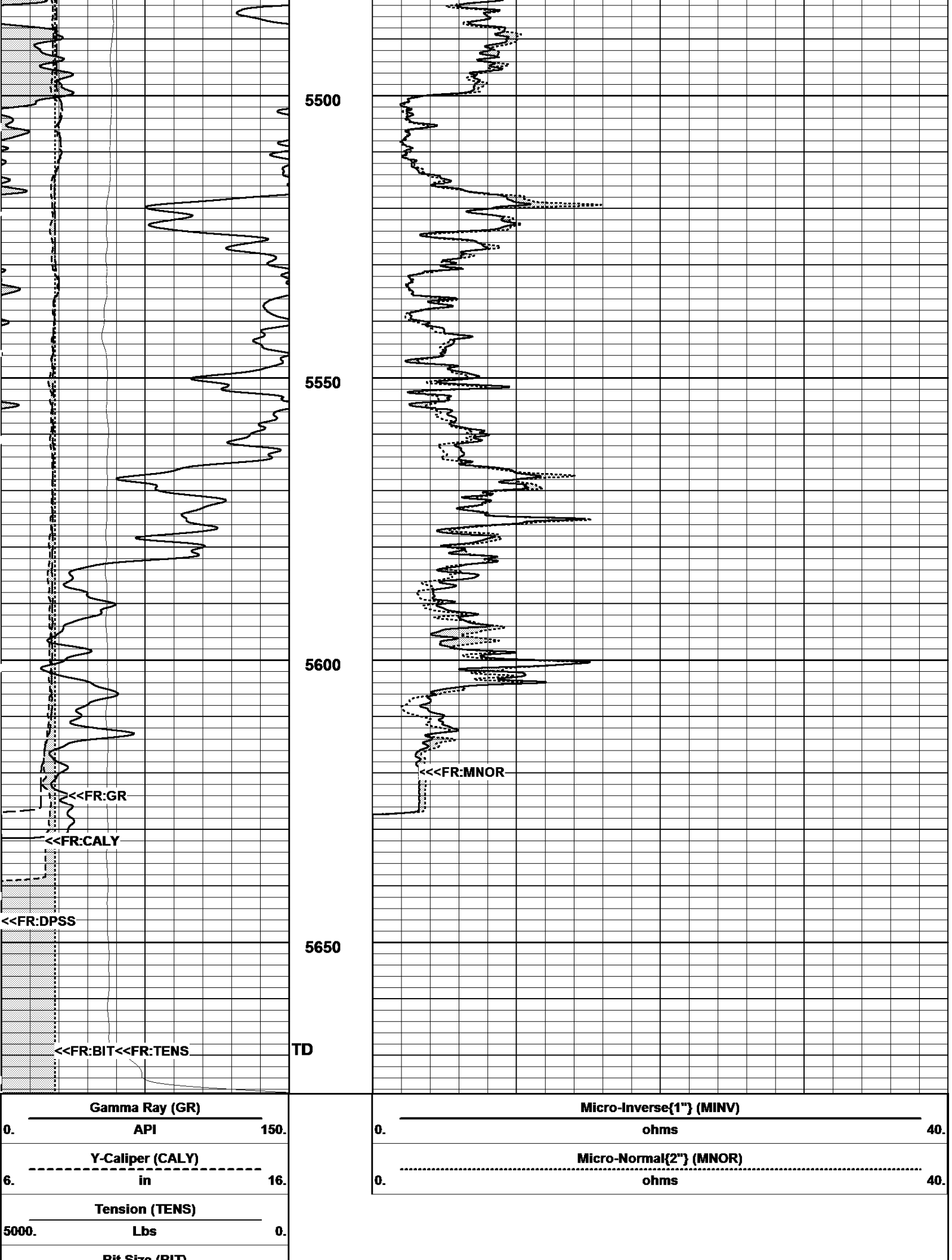
5300

5350

5400

5450





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

09/15/2013
14:04:48 ⇒ Start Time

MAIN PASS (5"/100Ft)

Log UP - (VER 11.14a)
Start Depth⇒ 5676.60 Feet

09/15/2013
14:00:31 ⇒ End Time

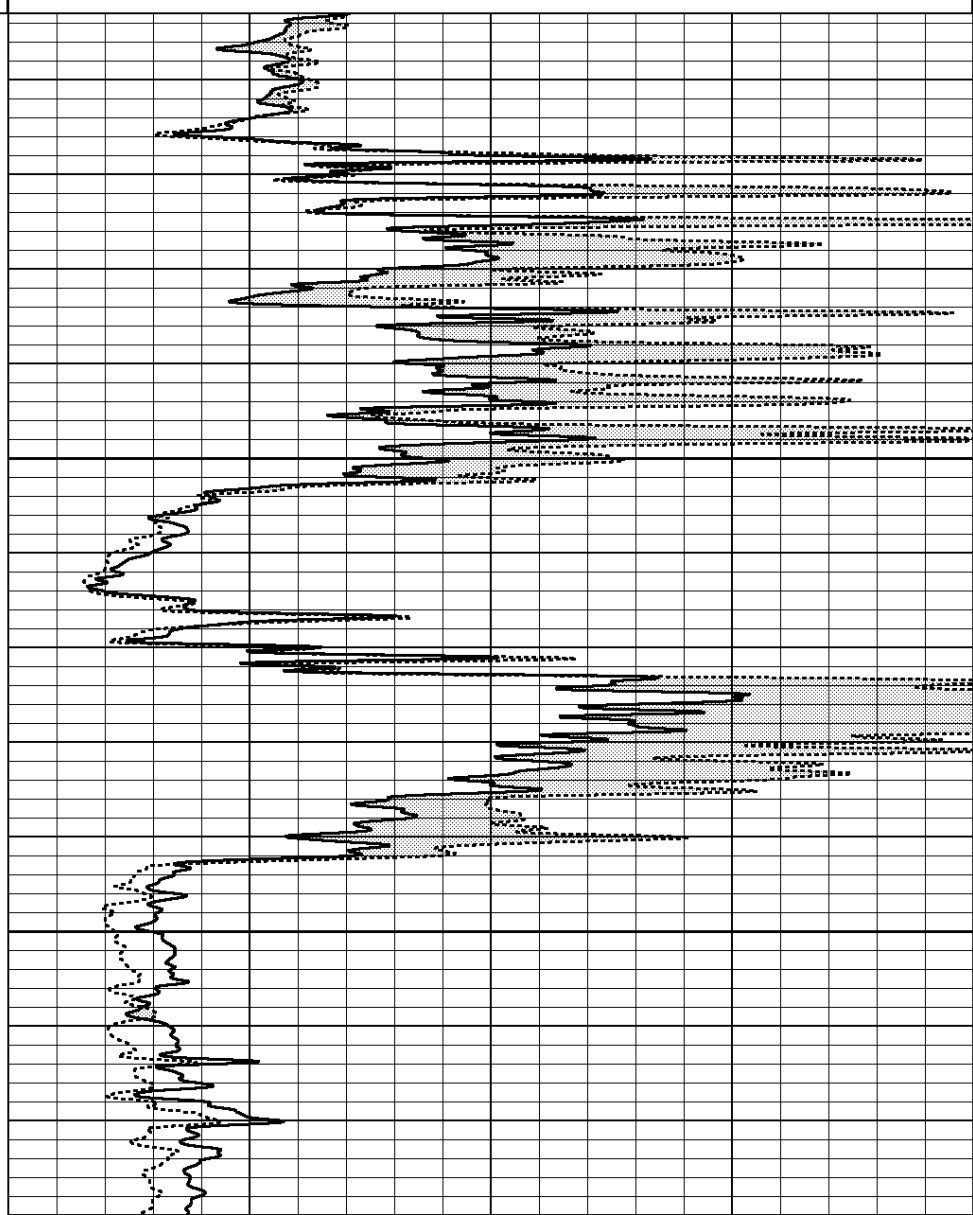
REPEAT PASS (5"/100Ft)

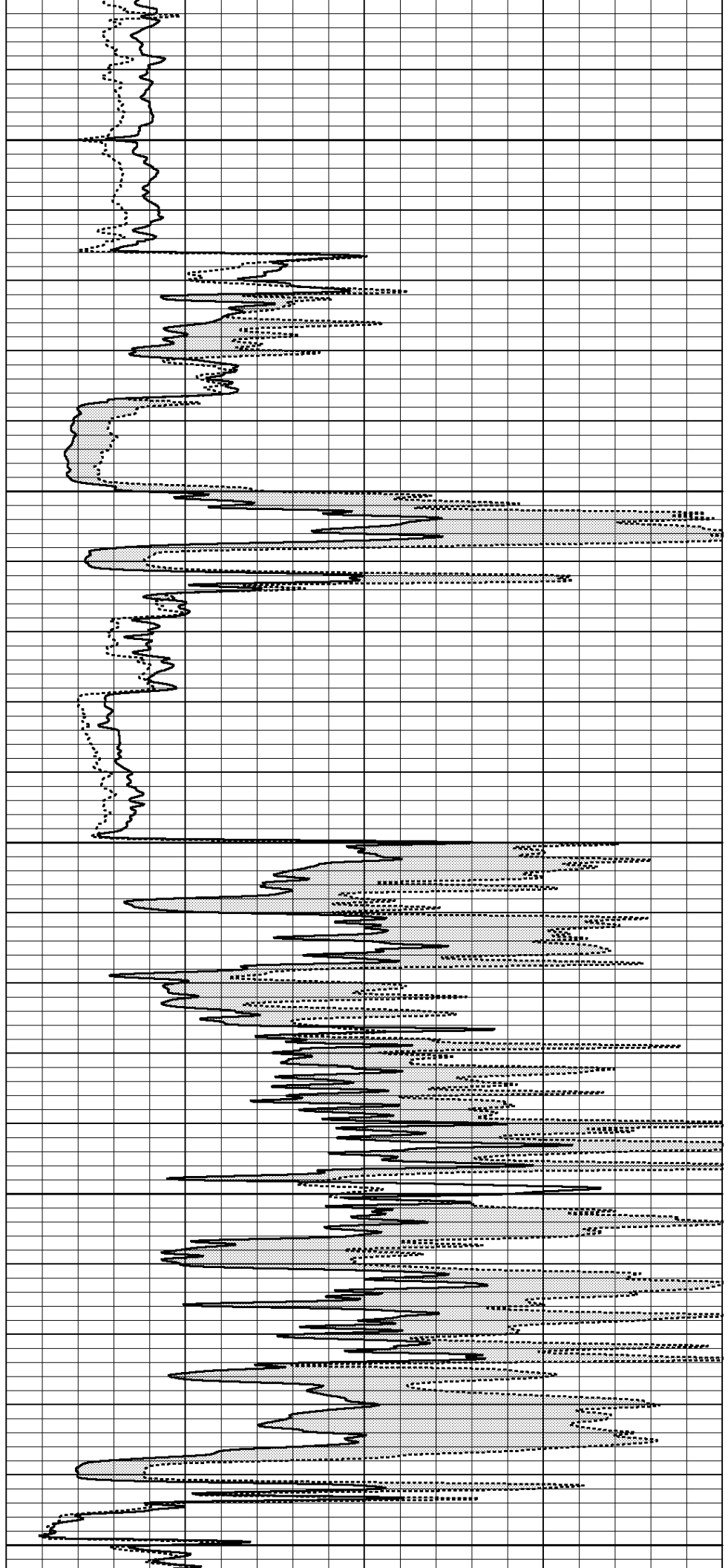
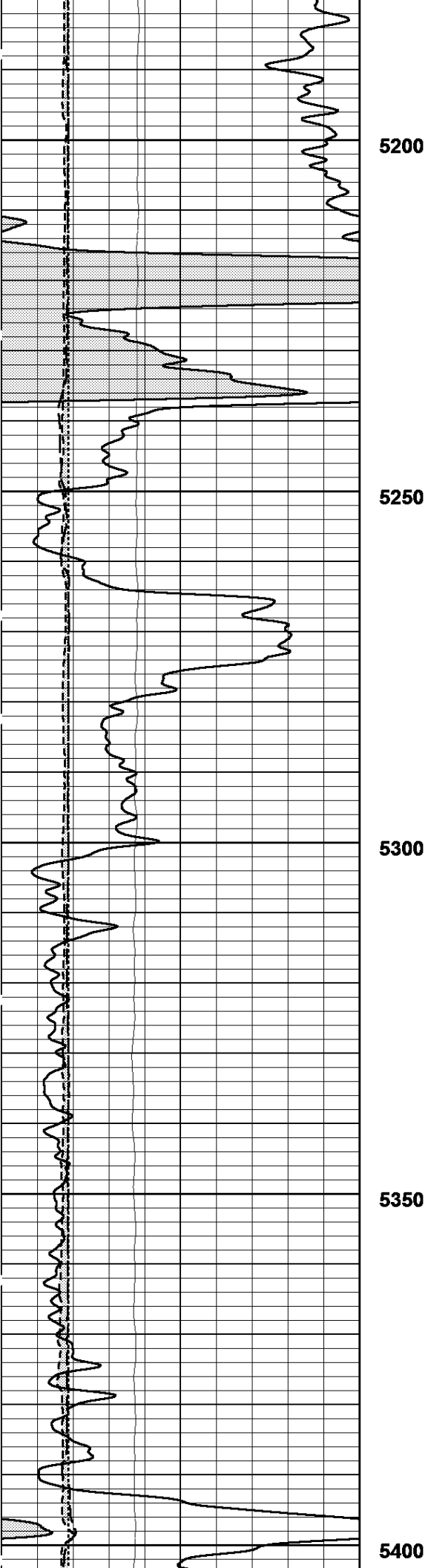
Log UP - (VER 11.14a)
End Depth⇒ 5053.20 Feet

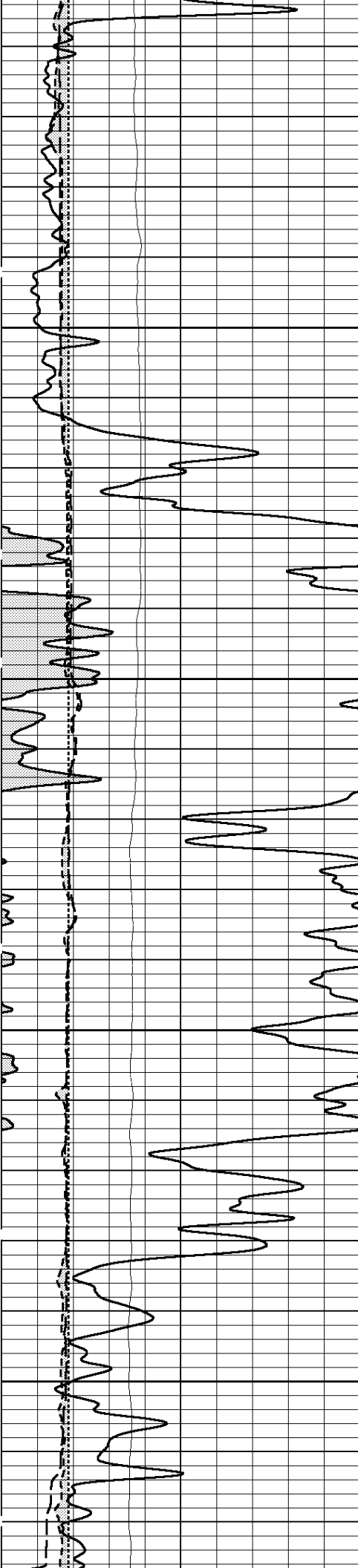
6.	MicroLog-Caliper	16.
	in	
6.	Bit Size (BIT)	16.
	Ref in	
5000.	Tension (TENS)	0.
	Lbs	
6.	Y-Caliper (CALY)	16.
	in	
0.	Gamma Ray (GR)	150.
	API	



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





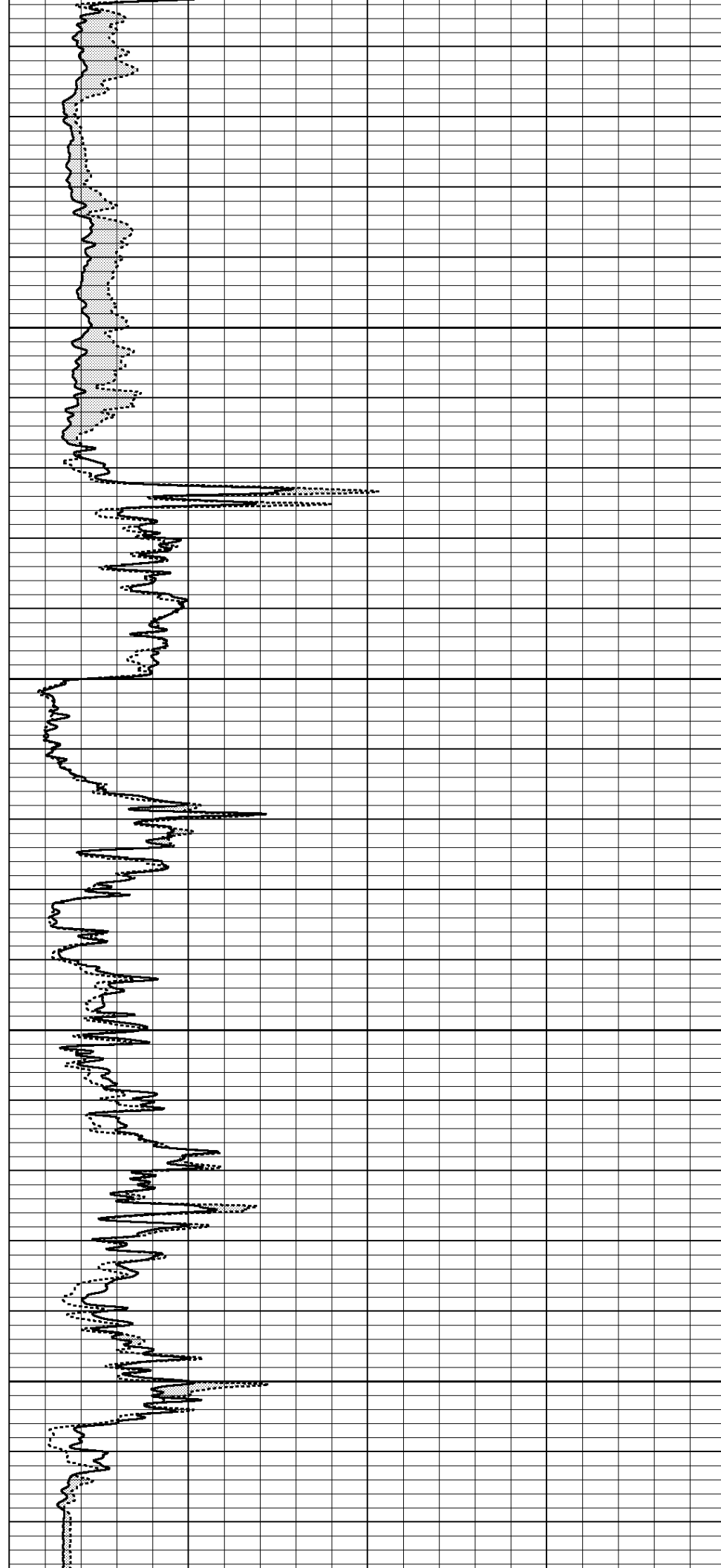


5450

5500

5550

5600



MASTER CALIBRATIONS

	BackGrnd	CalVal: 135.000 API	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	63.747 - raw	438.653 - raw	0.360 - gain 0.000 - off	M/D/Y> 8/27/2013	H:M:S> 15:31:34

WELL SITE CALIBRATIONS

	BackGrnd	CalVal: 100.000 Mknuts	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

Y CALIPER CALIBRATIONS

SERIAL NUM

RN2016

MASTER CALIBRATIONS

	ZeroVal: 6.500 IN	CalVal: 9.000 IN	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	1007.959 - raw	1479.160 - raw	0.005 - gain 1.152 - off	M/D/Y> 8/27/2013	H:M:S> 14:16:8

MICRO CALIPER CALIBRATION

SERIAL NUM

RM8008

MASTER CALIBRATIONS

	ZeroVal: 6.500 mm	CalVal: 9.000 mm	Gain/Offset	CALIBRATION DATE	CALIBRATION TIME
BASE CALS	2028.094 - raw	3466.727 - raw	0.002 - gain 2.976 - off	M/D/Y> 9/11/2013	H:M:S> 11:23:56

Company

VAUGHN GOOD OIL COMPANY

Well

NUSSE #5-16

Field

S.E. HARDTNER

County

BARBER

State

KANSAS

RECON

**MICROLOG
GAMMA RAY
X-Y CALIPER**

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