GEARHART

DUAL LATEROLOG

FILING NO.

API # 15-135-22878

COMPANY SOUTHERN STATES OIL COMPANY

WELL MAUCH NO. 1-16

FIELD EAST PAWNEE VALLEY

COUNTY NESS STATE KANSAS

LOCATION:

C E/2 NW SE

SEC 16 TWP 20S RGE 23W

Other Services

CDL/CNS/GR/CAL, MOP

Permanent Datum GL Elev. 2272

Log Measured from KB 6 Ft. Above Perm. Datum

Drilling Measured from KB

Elev.: K.B. 2278 D.F. 2276 G.L. 2272

Date	7-30-85			
Run No.	One			
Depth—Driller	4450			
Depth—Logger	4454			
Bottom Logged Interval	4440			
Top Logged Interval	597			
Casing—Driller	8 5/8@ 608	@	@	@
Casing—Logger	-			
Bit Size	7 7/8			
Type Fluid in Hole	Chem Gel			
Density / Viscosity	9.6 / 46			
ph / Fluid Loss	6.5 / 6 cc	cc	cc	cc
Source of Sample	Flowline			
Rm @ Meas. Temp.	.26 @ 71 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	.20 @ 70 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	.34 @ 70 °F	@ °F	@ °F	@ °F
Source of Rmf / Rmc	M / C			
Rm @ BHT	.16 @ 120°F	@ °F	@ °F	@ °F
Time End Circulation	0420 Hours			
Time Logger on bottom	0804 Hours			

Scale Changes: Type Log | Depth | Scale Up Hole | Scale Down Hole

Types of Mud Type or Additional Samples

Sample No.

Viscosity

Fluid Loss

Source of Sample

Rm @ Meas. Temp.

Rmf @ Meas. Temp.

Rmc @ Meas. Temp.

Source of Rmf / Rmc

Rm @ BHT

Time Circulation Stopped

Time Logger on Bottom

Max. Rec. Temp. Deg. F

Equipment No. / Location

Recorded By

Witnessed By

EQUIPMENT DATA

	DUAL LATEROLOG					GAMMA RAY		OTHER
	Run No.	Tool No.	Tool Type	Tool Position	S. O.	Tool No.	Tool Type	Tool No.
	One	15042	DLT-BA	Cent.	Bow	33061	UGR-DG	18026
					Spring			MSFRA

CALIBRATION DATA

LLD High	LLD Low	LLD Gain	LLS High	LLS Low	LLS Gain	MSFL	MSFL	GAMMA RAY API Scale	GAMMA RAY BKG.	GAMMA RAY STD.
81540	1530	-	84512	1930	-	1002	0.0	15	152.2	610.6

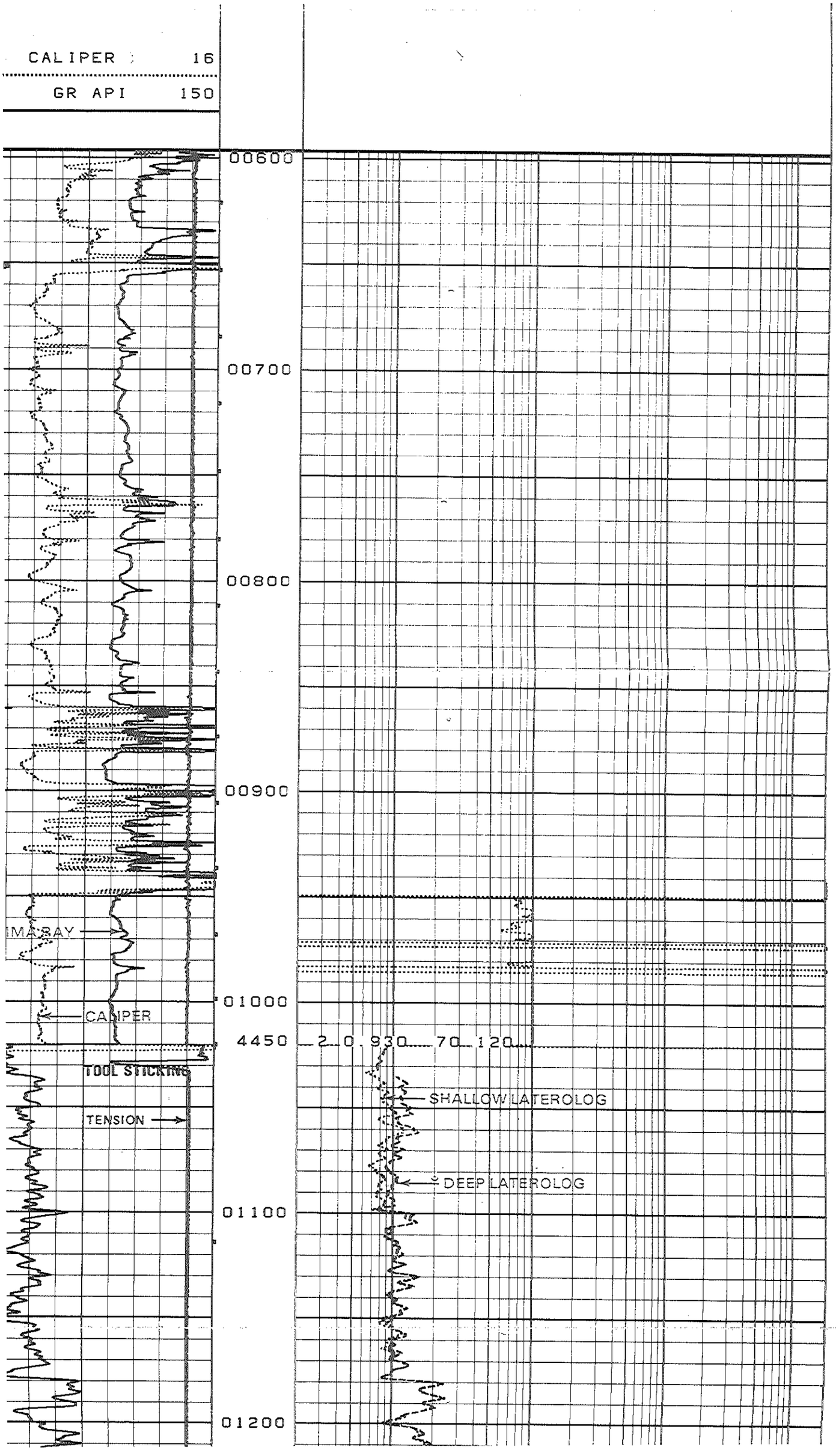
Remarks: PULLED TIGHT AT 1032 LOST TOOL IN HOLE
CDL/CNS LOGGED TO SURFACE CASING. CLOSED CALIPERS TO ENTER CASING.
TENSION SCALE: 10,000-0#.

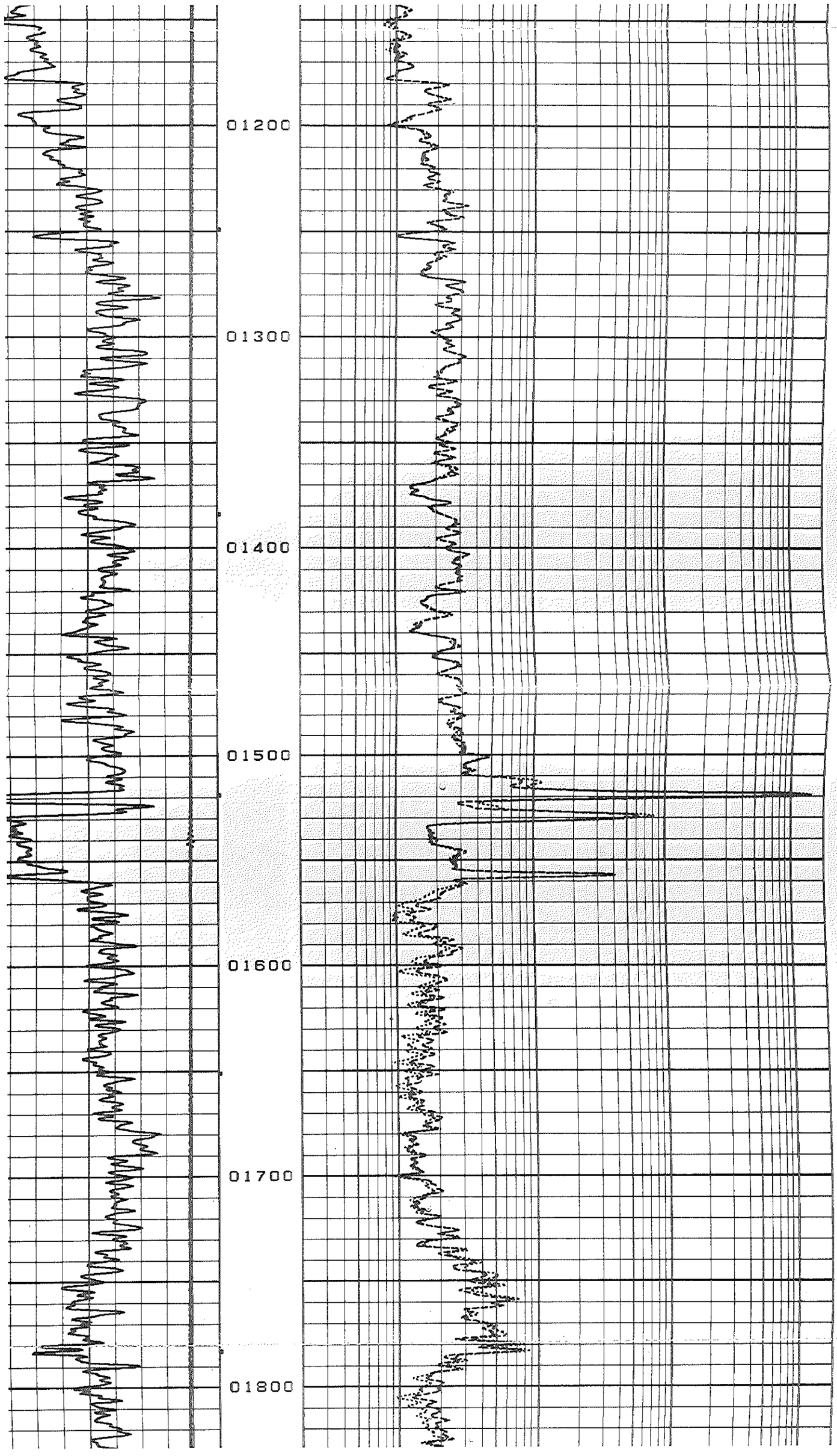
NOTICE: Gearhart Industries, Inc. cannot and does not guarantee the accuracy or correctness of any log data or of any interpretation thereof and shall not be liable or responsible for any loss, cost, damage or expense incurred or sustained by Customer resulting from any log data or interpretation made by Gearhart Industries, Inc. or any of its agents, servants or employees. Neither log data nor interpretation thereof should be relied upon as the sole basis for any drilling, completion, well treatment or production decision or any other procedure. Unless there is presently in effect a master or other specific or general contract intended to extend and apply hereto, this Log is provided in accordance with Gearhart Industries, Inc.'s General Terms and Conditions as set out in its current price schedule.

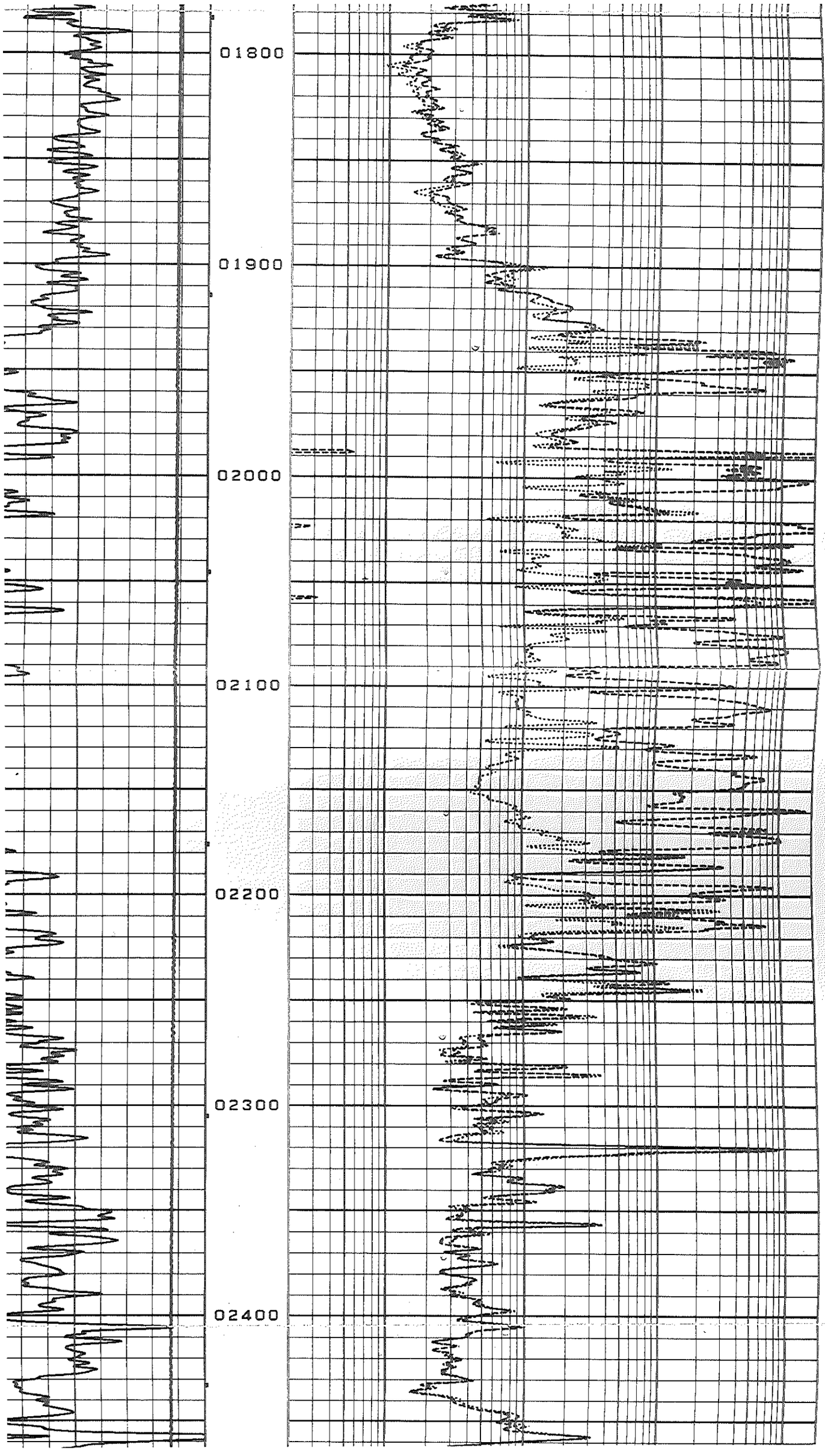
GEARHART INDUSTRIES, INC.

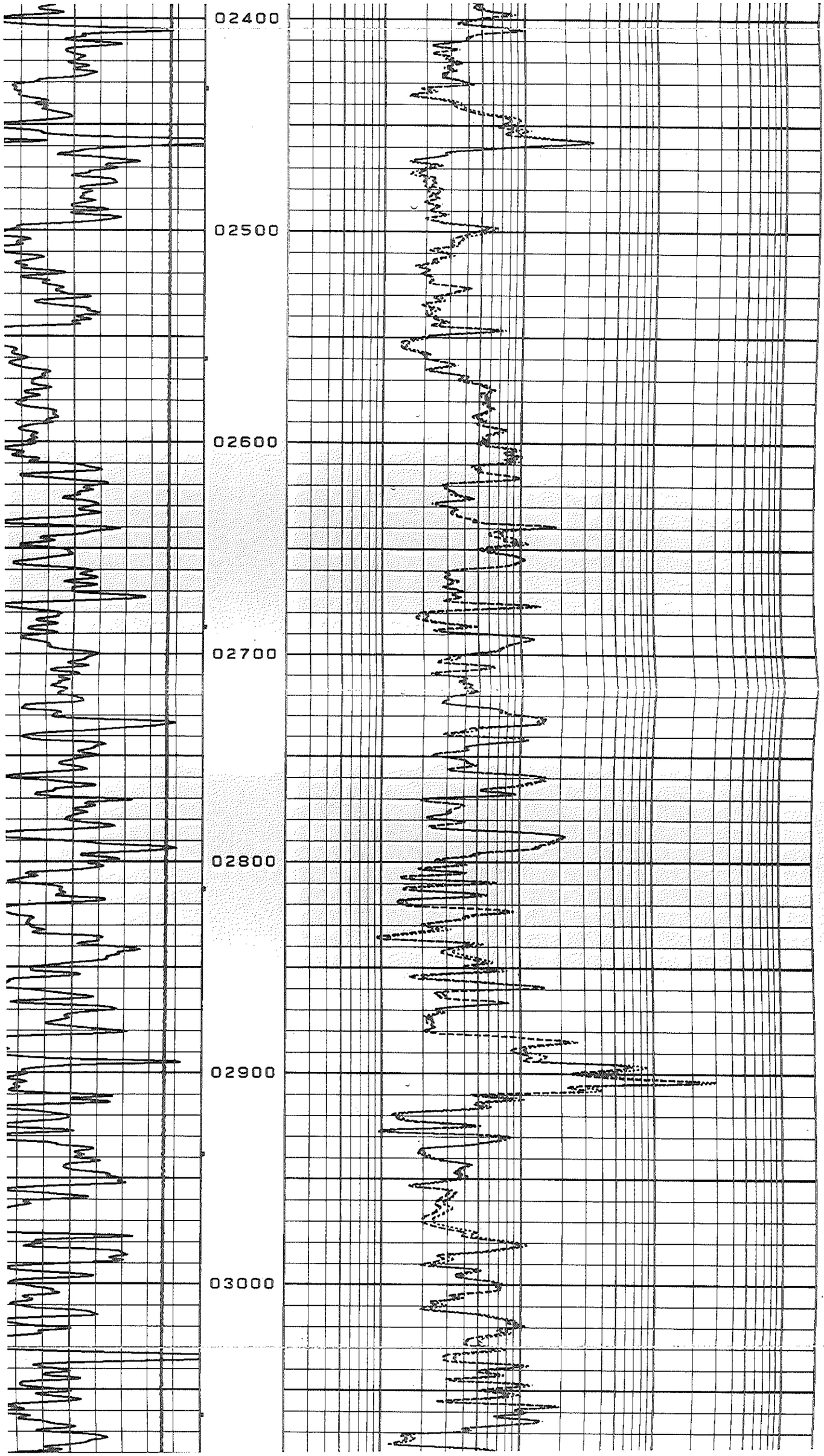
7-31-85 04:53 596.5 32422 0093-60 0 0001-19 0

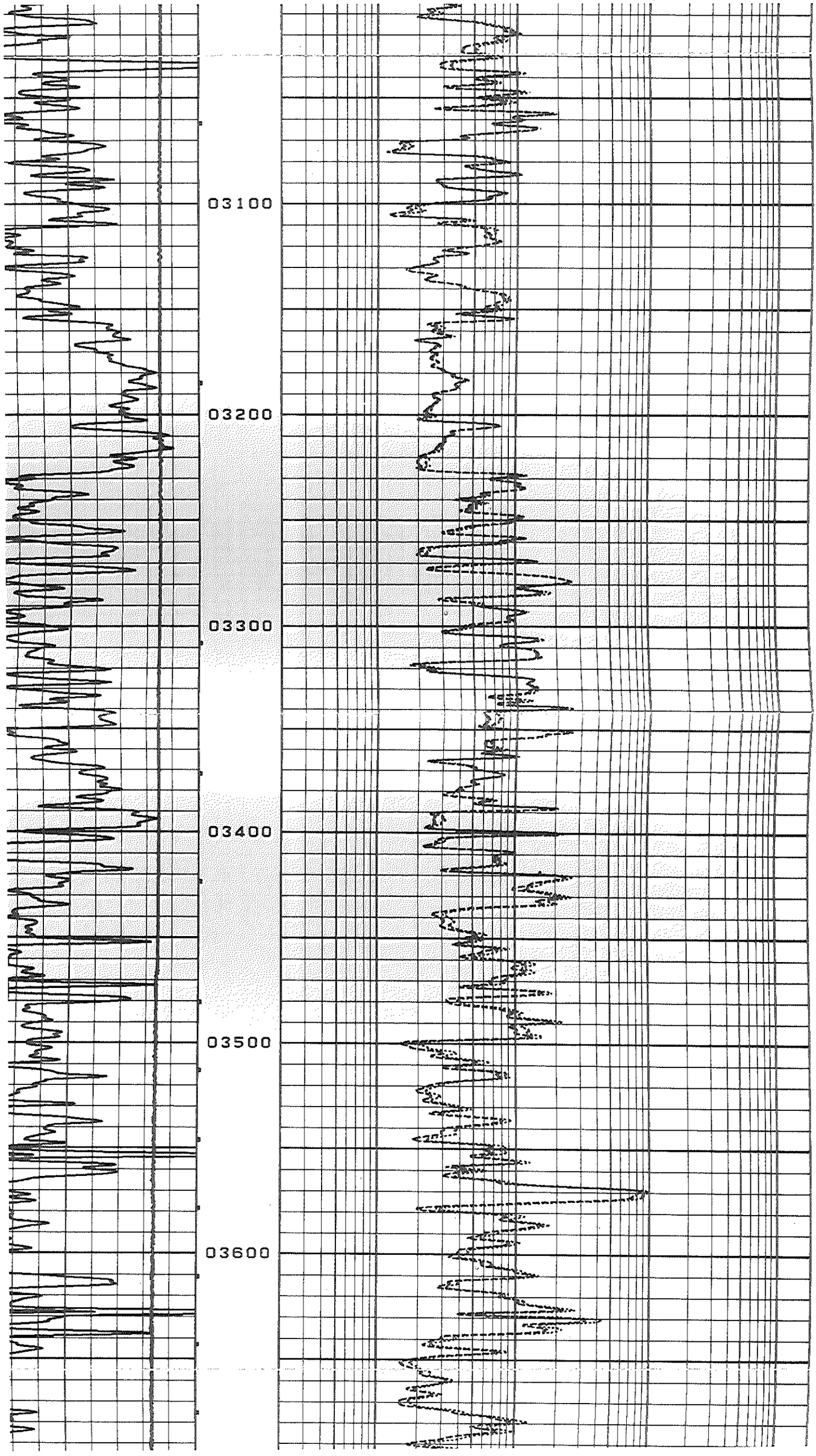
CALIPER 16

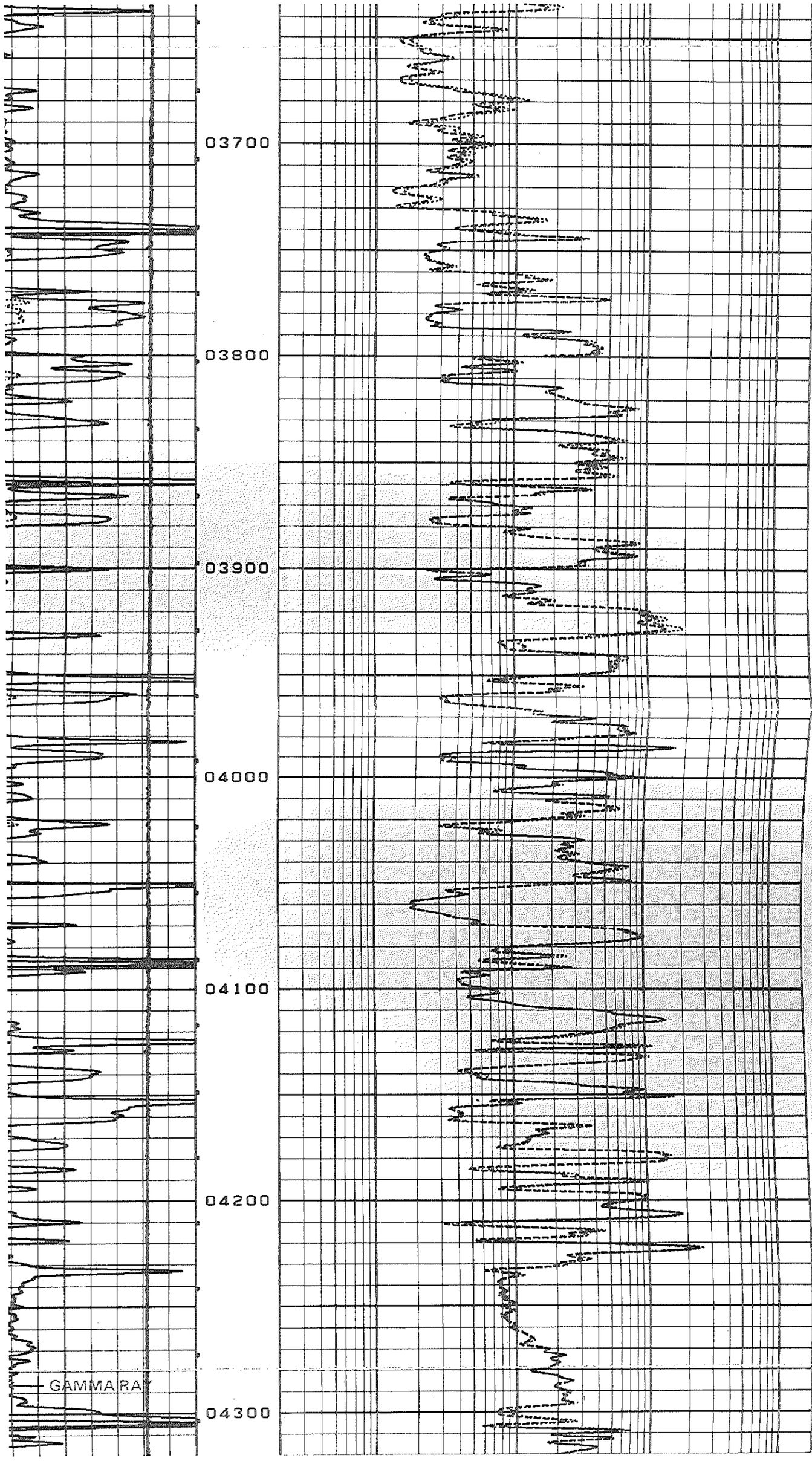

CALIPER 16
GR API 150
00600
00700
00800
00900
IMA RAY
CALIPER
01000
4450
2 0.930 70 120
TOOL STICKING
TENSION
SHALLOW LATEROLOG
DEEP LATEROLOG
01100
01200

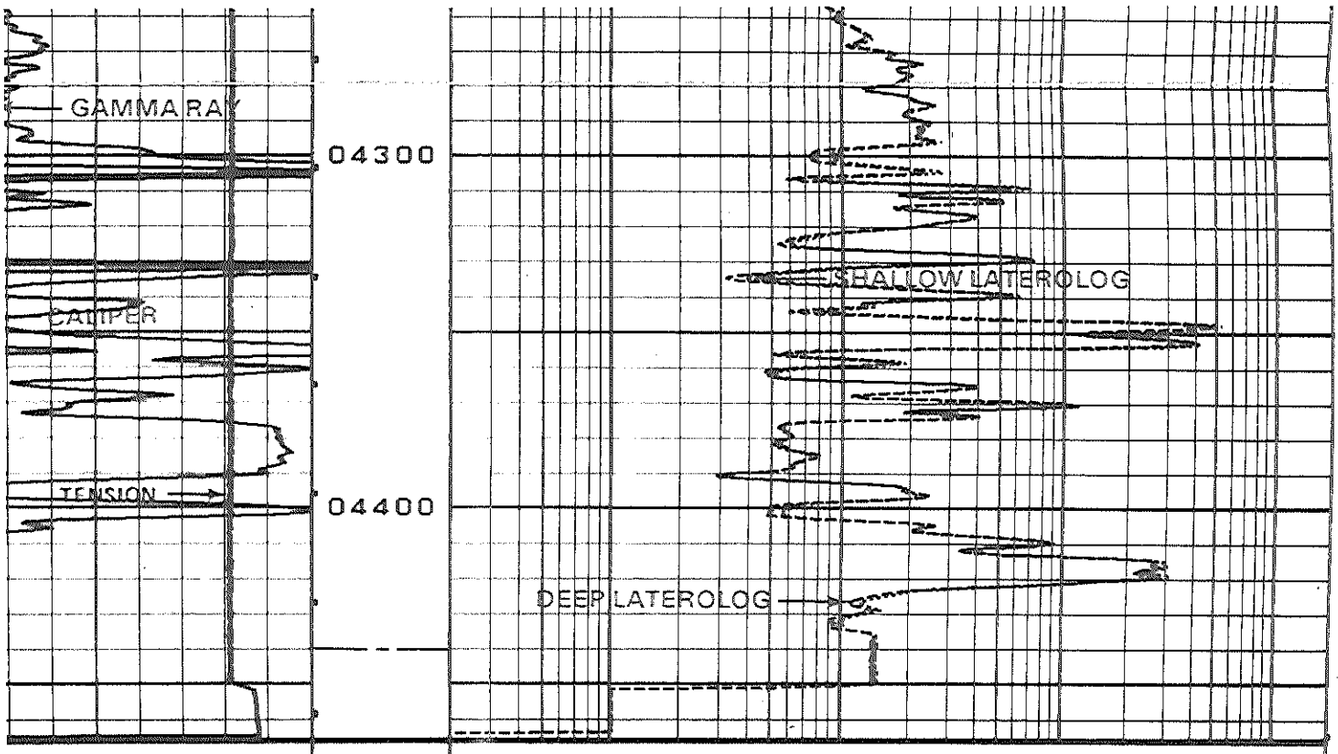

01200
01300
01400
01500
01600
01700
01800


01800
01900
02000
02100
02200
02300
02400


02400
02500
02600
02700
02800
02900
03000


03100
03200
03300
03400
03500
03600


03700
03800
03900
04000
04100
04200
GAMMA RAY
04300



CALIPER . 16

GR API 150

0.2 R(LLS) Ω-M 2000

0.2 R(LLD) Ω-M 2000

)-85 08:15 4465.0 322422 0093-60 0 0001-19 0

-85 08:51 3489.0 322422 0093-60 0 0001-19 3

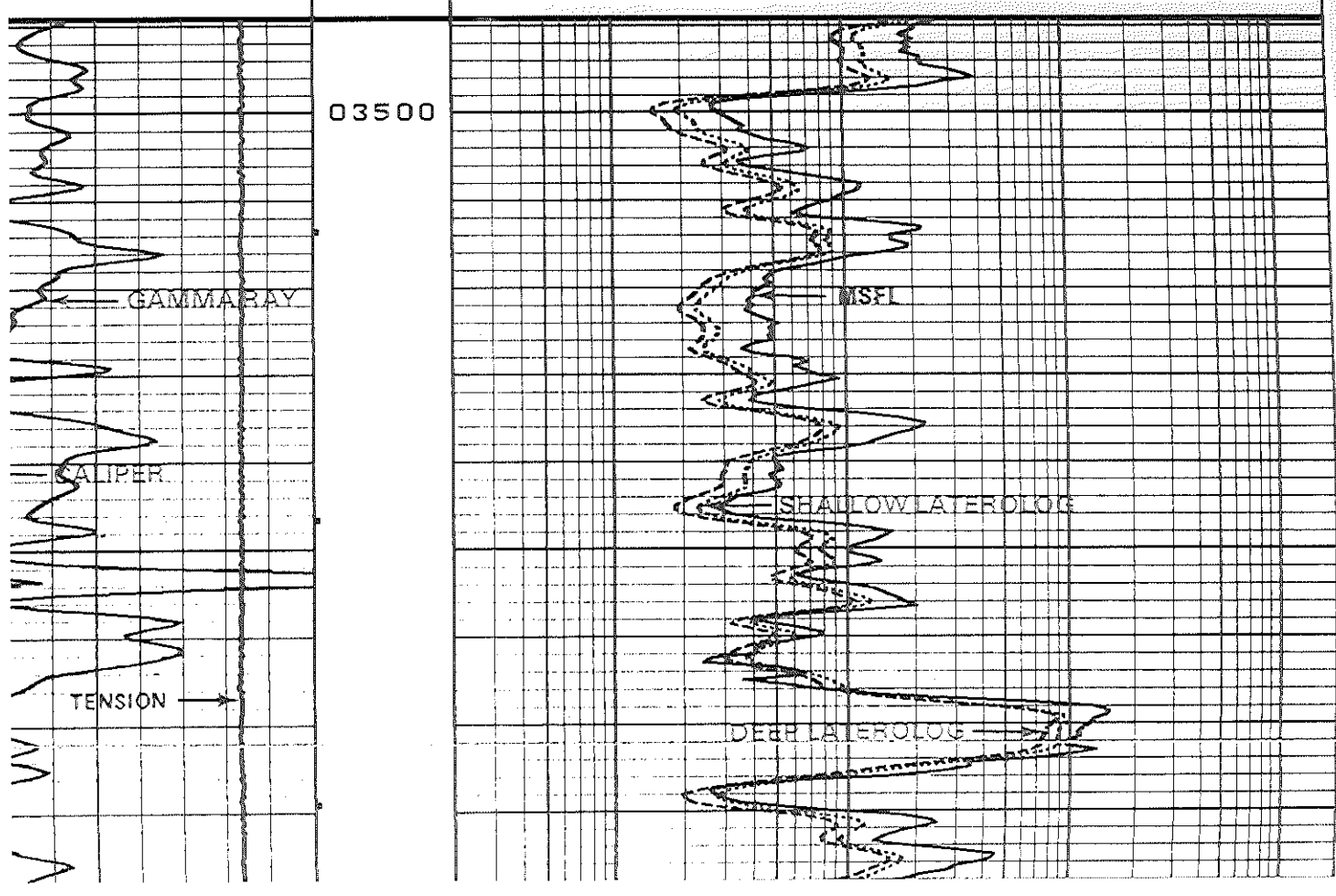
ALIPER 16

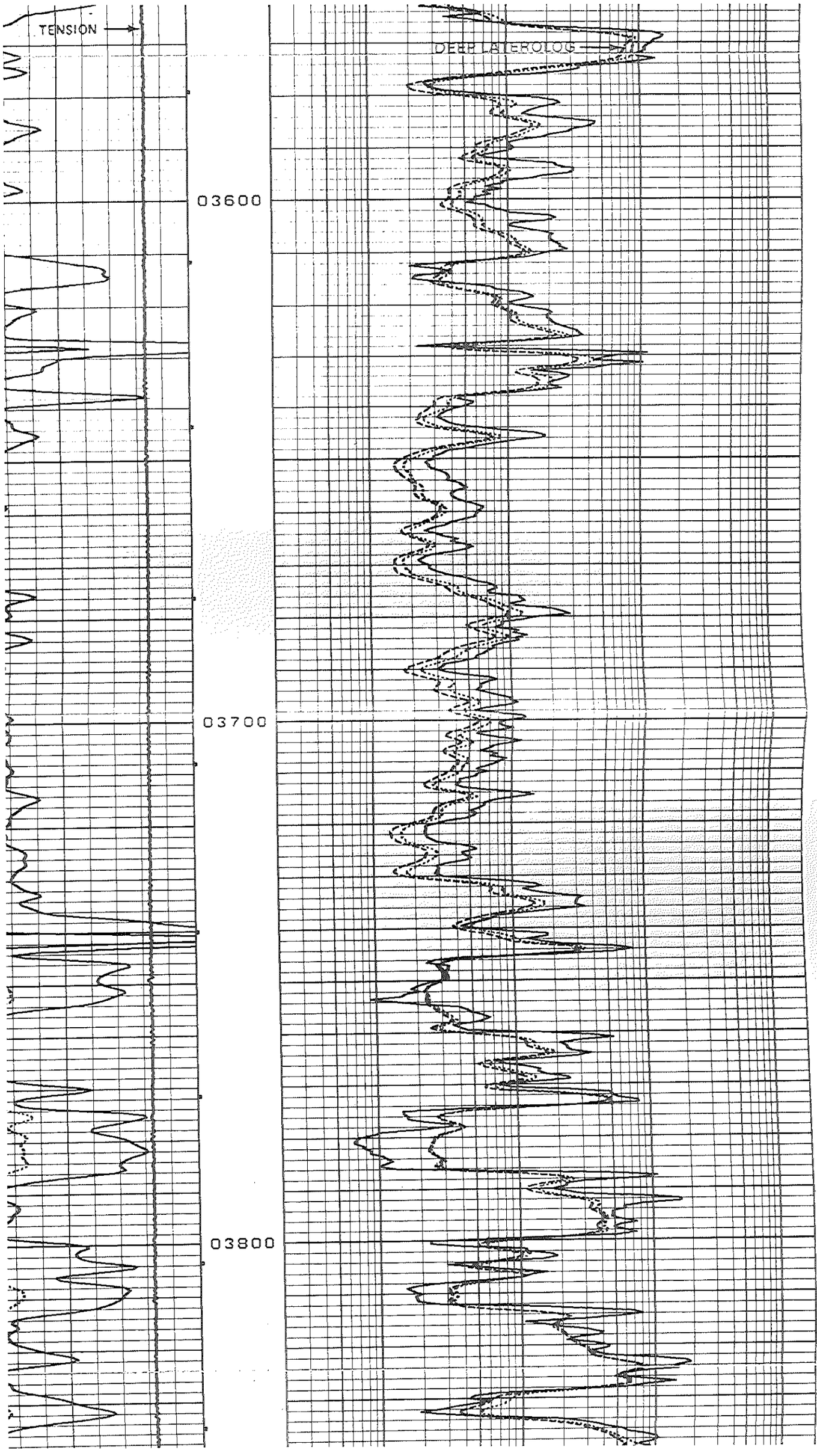
GR API 150

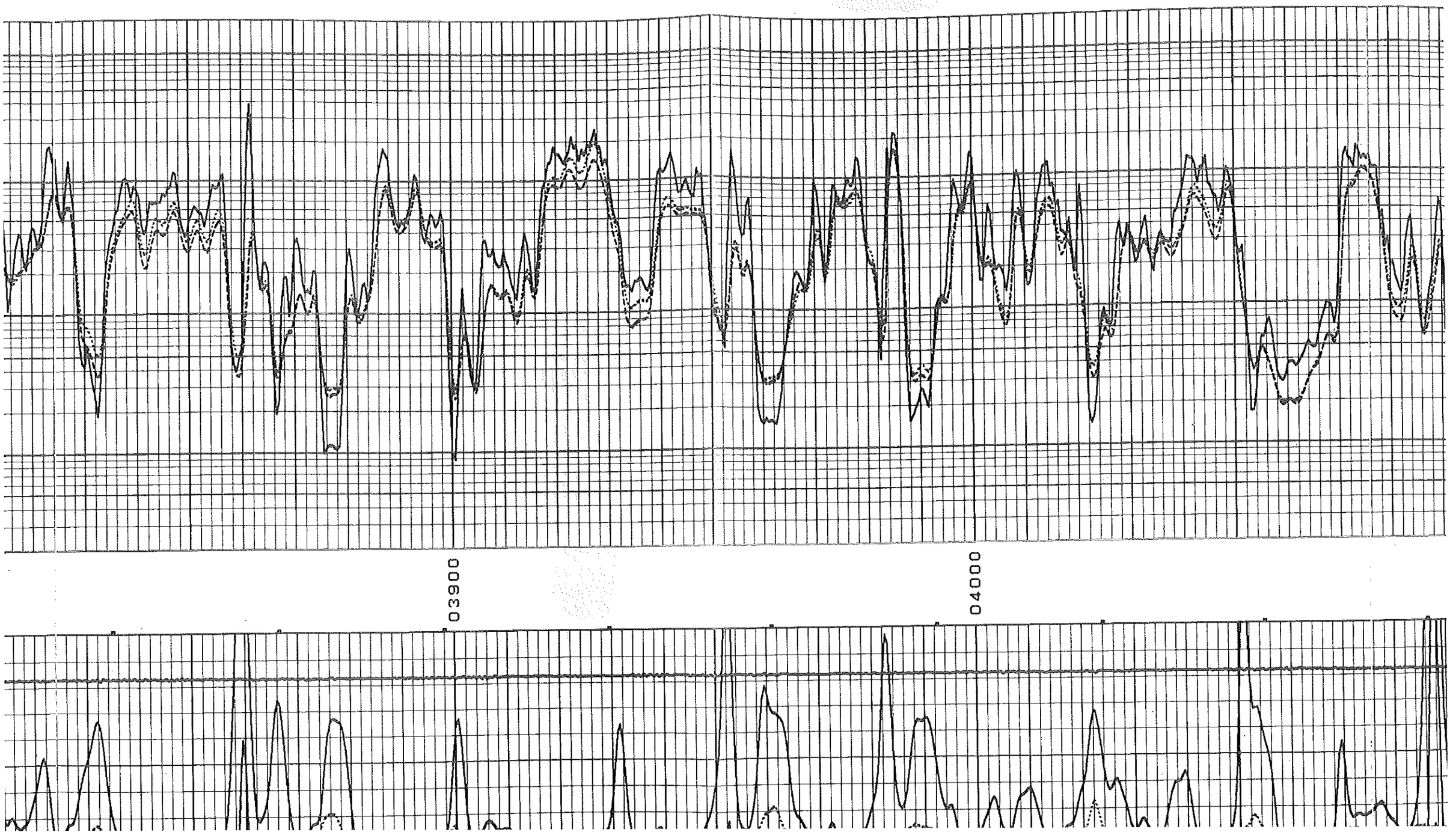
0.2 R(RXO) Ω-M 2000

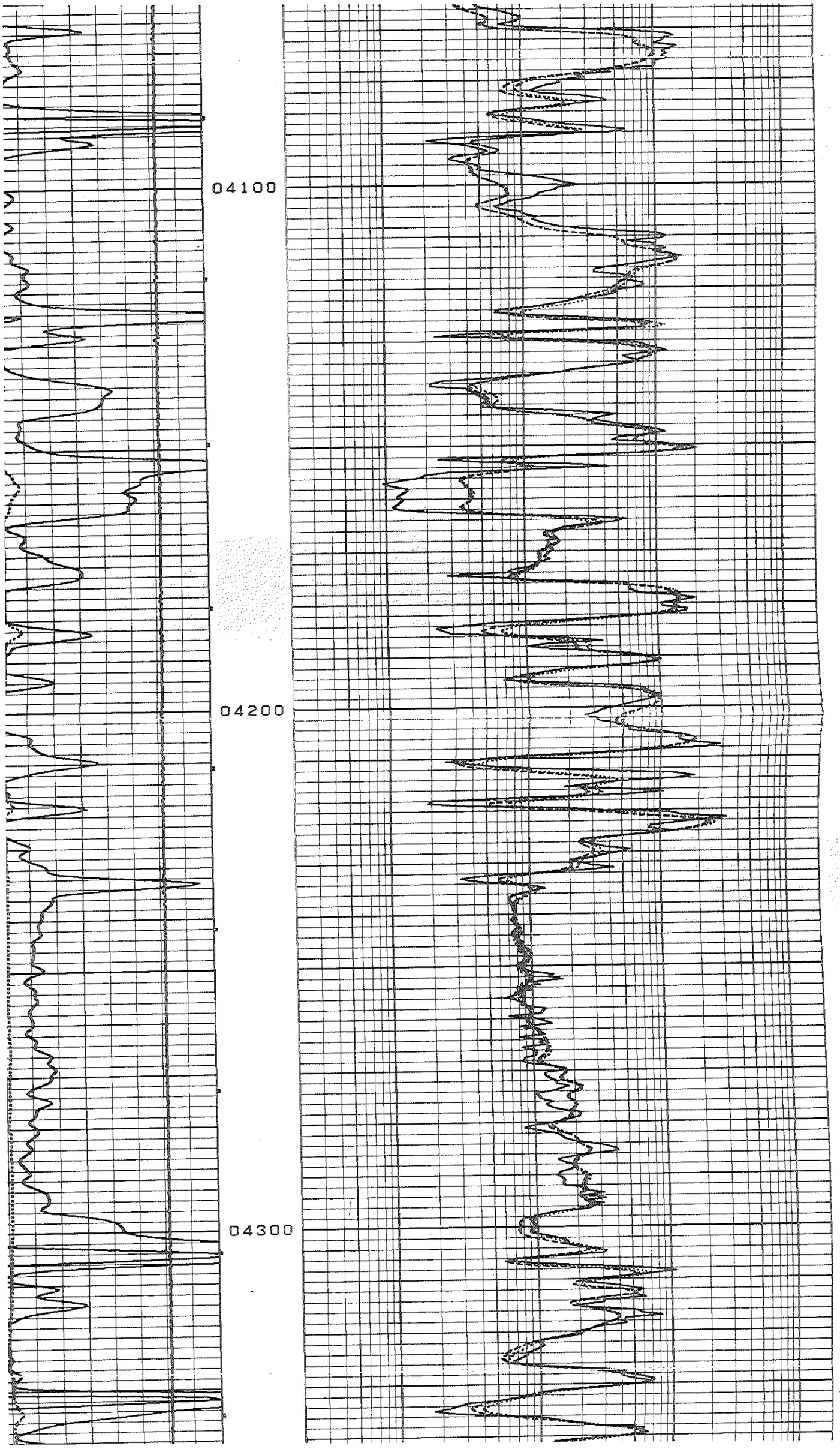
0.2 R(LLS) Ω-M 2000

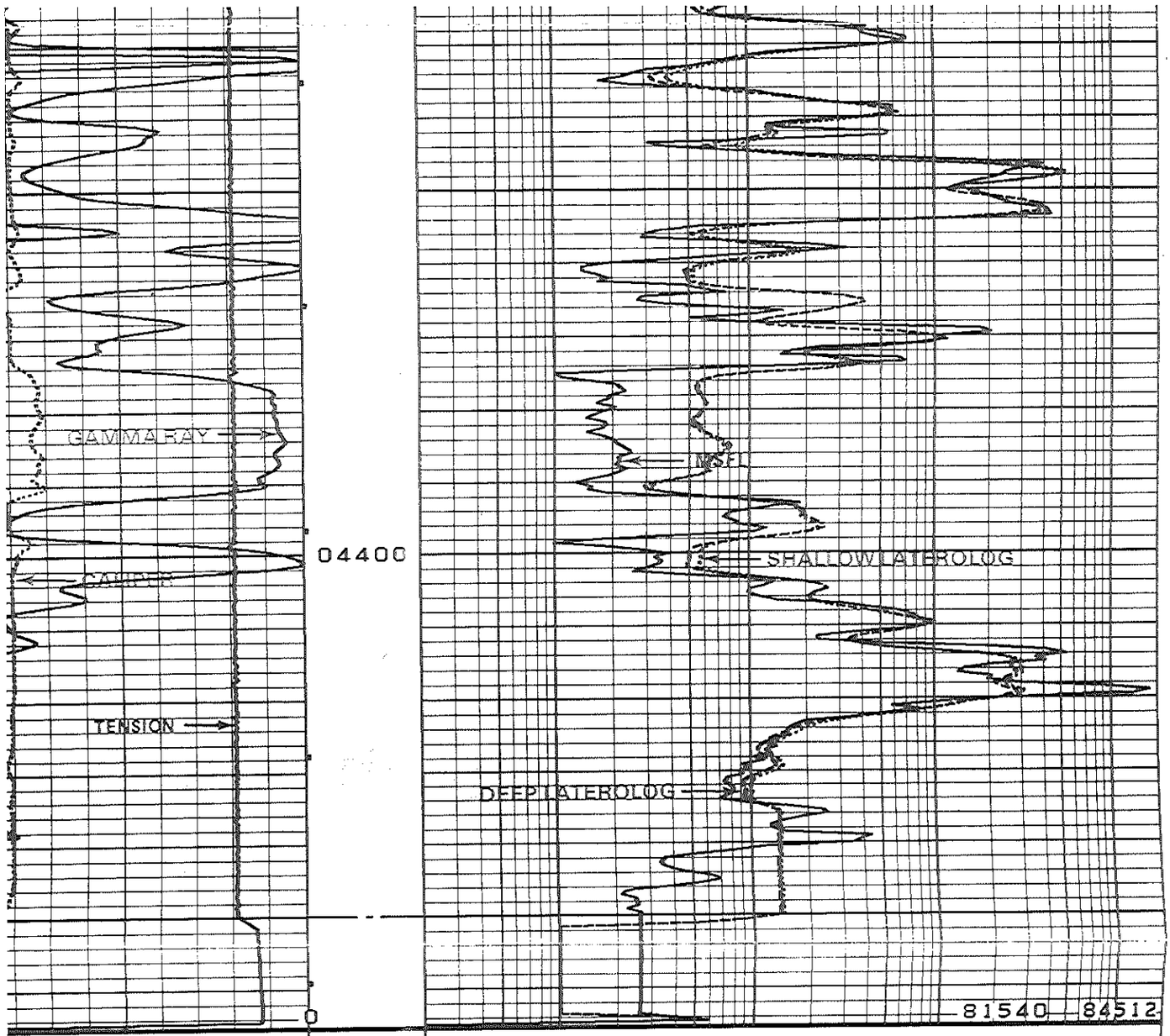
0.2 R(LLD) Ω-M 2000




TENSION
DEEP LATEROLOG
03600
03700
03800


03900
04000


04100
04200
04300



CALIPER	16	0.2	R(RXO) Ω-M 2000
GR API	150	0.2	R(LLS) Ω-M 2000
		0.2	R(LLD) Ω-M 2000

-30-85 08:15 4465.0 322422 0093-60 0 0001-19 3

ompany SOUTHERN STATES OIL COMPANY

ell MAUCH NO. 1-16

eld EAST PAWNEE VALLEY

ounty NESS State KANSAS

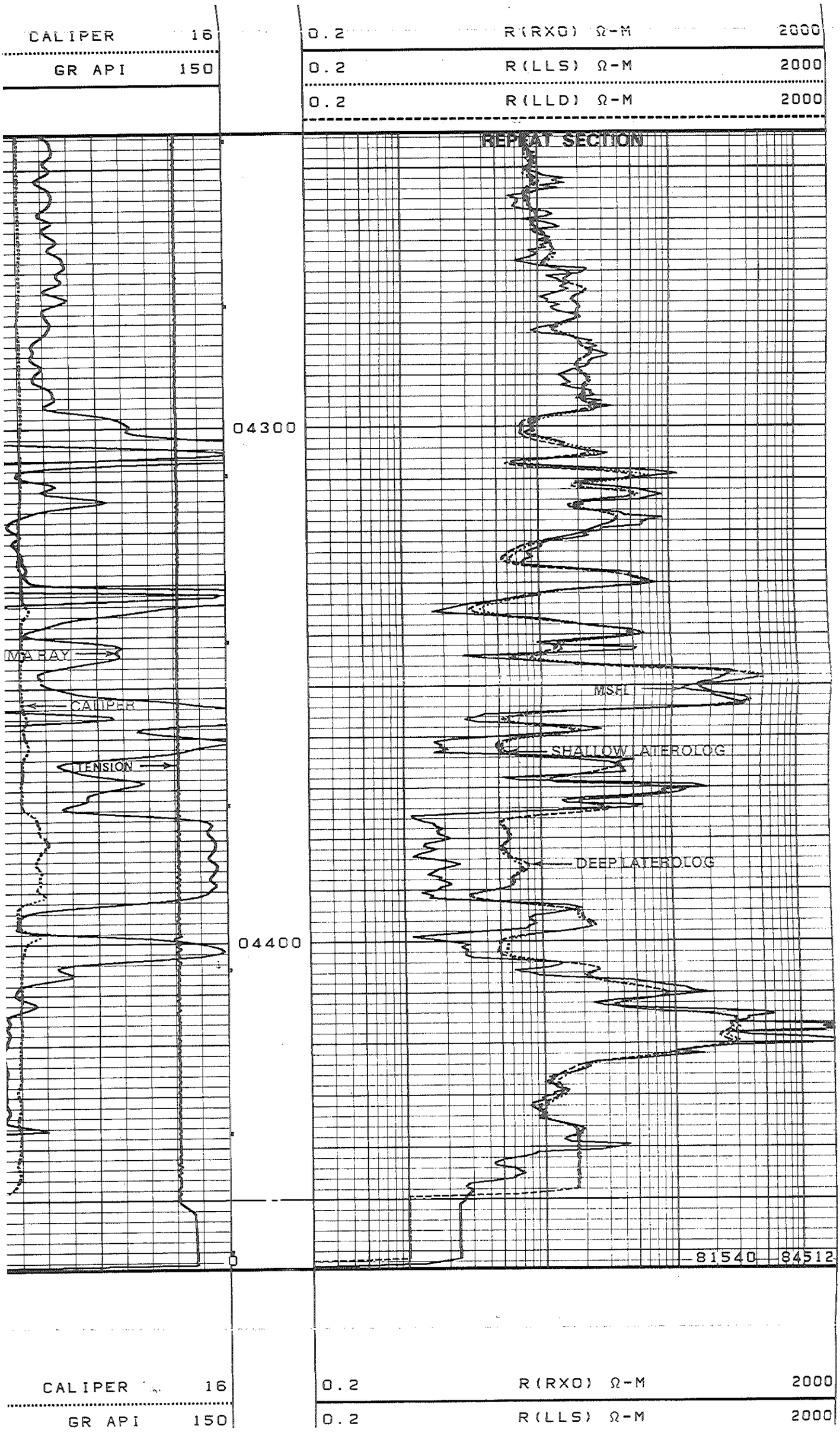
GO FR 4440
GO TD 4454
DRLR TD 4450
Elev:

KB 2278
DF 2276
GL 2272

-30-85 08:11 4243.0 322422 0093-60 0 0001-19 2

CALIPER	16	0.2	R(RXO) Ω-M 2000
GR API	150	0.2	R(LLS) Ω-M 2000
		0.2	R(LLD) Ω-M 2000

REPEAT SECTION


CALIPER 16
GR API 150
0.2 R(RXO) Ω-M 2000
0.2 R(LLS) Ω-M 2000
0.2 R(LLD) Ω-M 2000
REPEAT SECTION
04300
04400
MTA RAY
CALIPER
TENSION
MSFL
SHALLOW LATEROLOG
DEEP LATEROLOG
81540
84512
CALIPER 16
GR API 150
0.2 R(RXO) Ω-M 2000
0.2 R(LLS) Ω-M 2000

CALIPER 16		0.2	R(RXO) Ω-M 2000
GR API 150		0.2	R(LLS) Ω-M 2000
		0.2	R(LLD) Ω-M 2000

-30-85	08:05	4463.0	322422	0093-60	0	0001-19 2
-30-85	09:46	543.5	322422	0093-60	0	0001-19 0

MMA RAY

BACKGROUND	CALIBRATOR	STANDARD	UNITS
152.2	610.6	140.0	GAPI

LTA COUNTS PER SEC: 458.4 CPS/API = 3.274

-30-85	07:35	543.5	322422	0093-60	0	0001-19 0

MICRO-SPHERICALLY FOCUSED BEFORE SURVEY CALIBRATION

ESISTIVITY

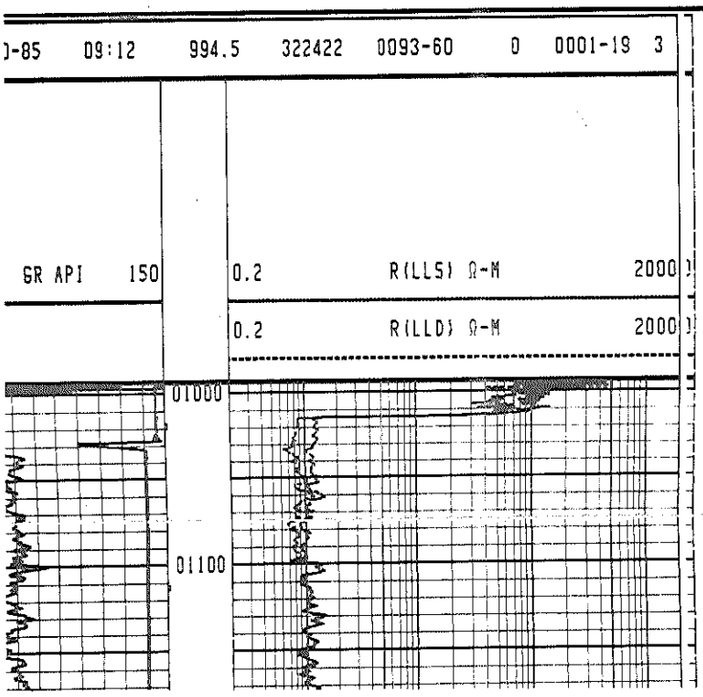
	MEASURED LOW	MEASURED HIGH	CALIBRATED LOW	CALIBRATED HIGH	UNITS
MSFL	1.0	502.0	0.0	499.9	MM/M

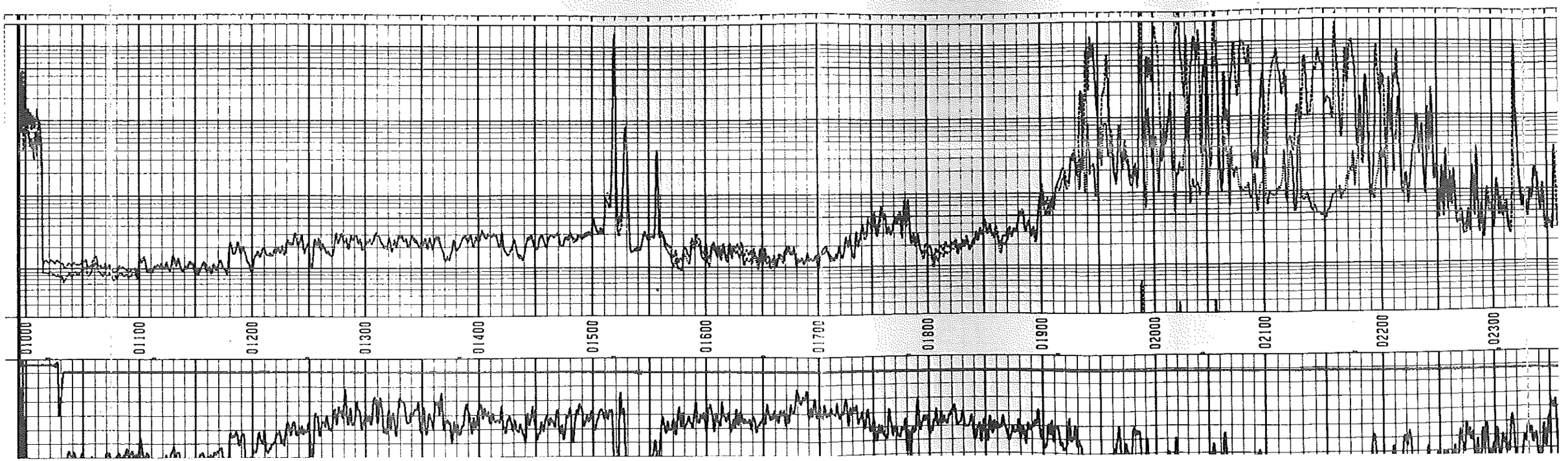
7-30-85	07:35	543.5	322422	0093-60	0	0001-19 0

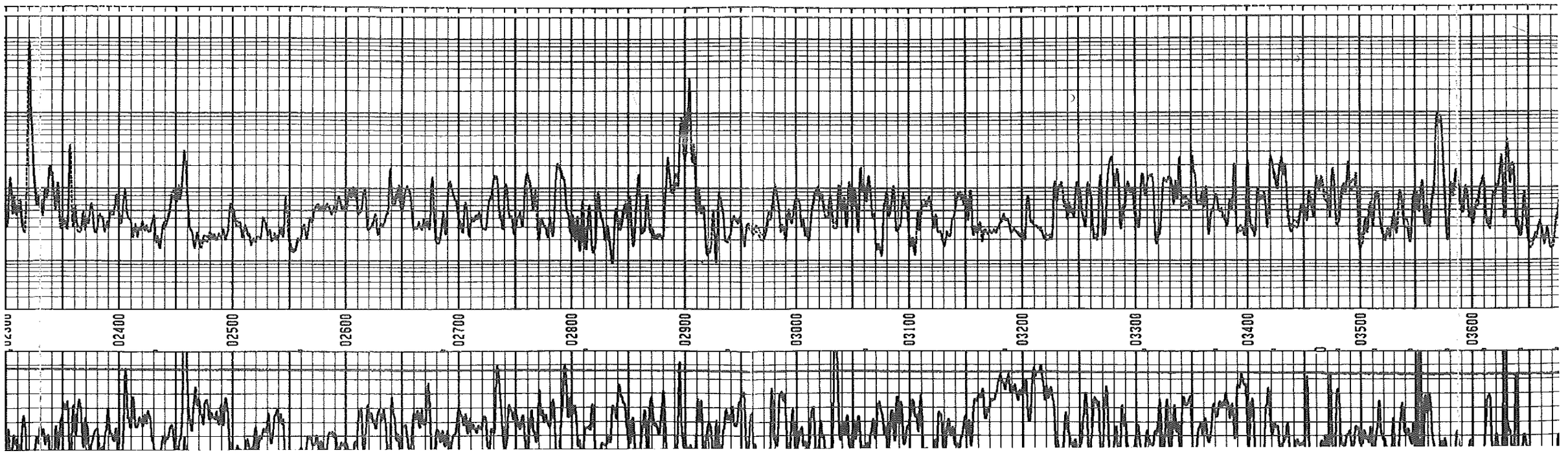
DUAL LATEROLOG BEFORE SURVEY CALIBRATION

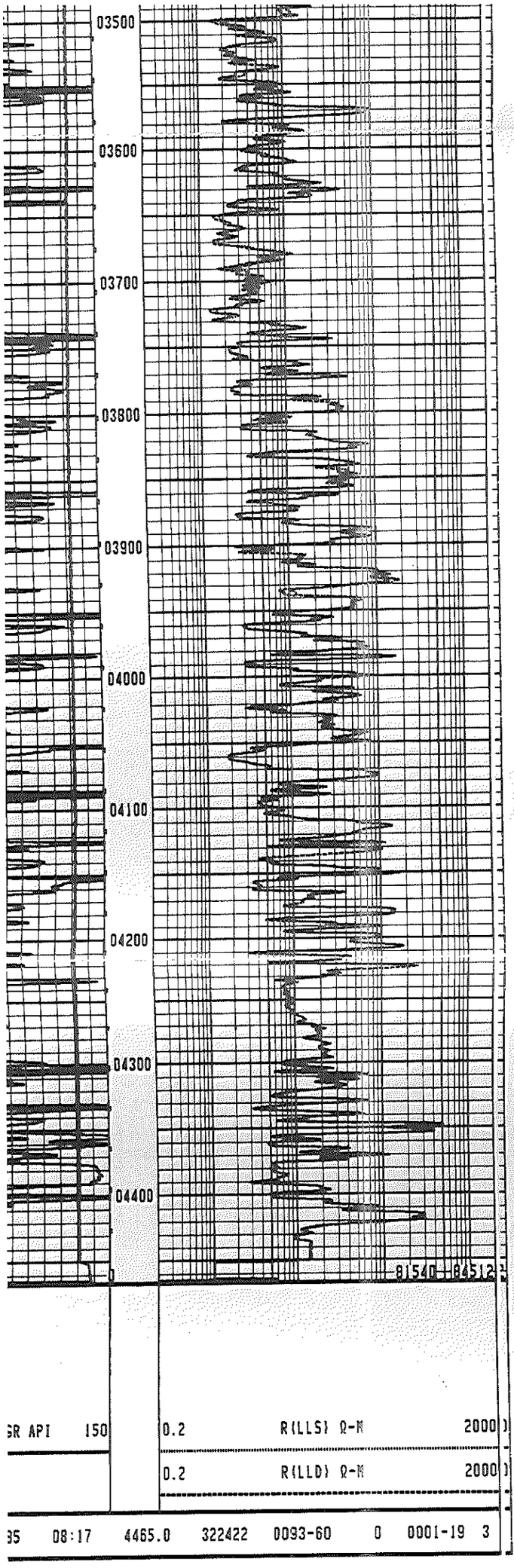
100 OHM-METER CAL

	MEASURED	CALIBRATED	UNITS
LLD	111	100	OHM-M
LLS	109	100	OHM-M




01000
01100
01200
01300
01400
01500
01600
01700
01800
01900
02000
02100
02200
02300


2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600


03500
03600
03700
03800
03900
04000
04100
04200
04300
04400
8154 - 8451
GR API 150
0.2 R(LLS) Ω-M 2000
0.2 R(LLD) Ω-M 2000
85 08:17 4465.0 322422 0093-60 0 0001-19 3