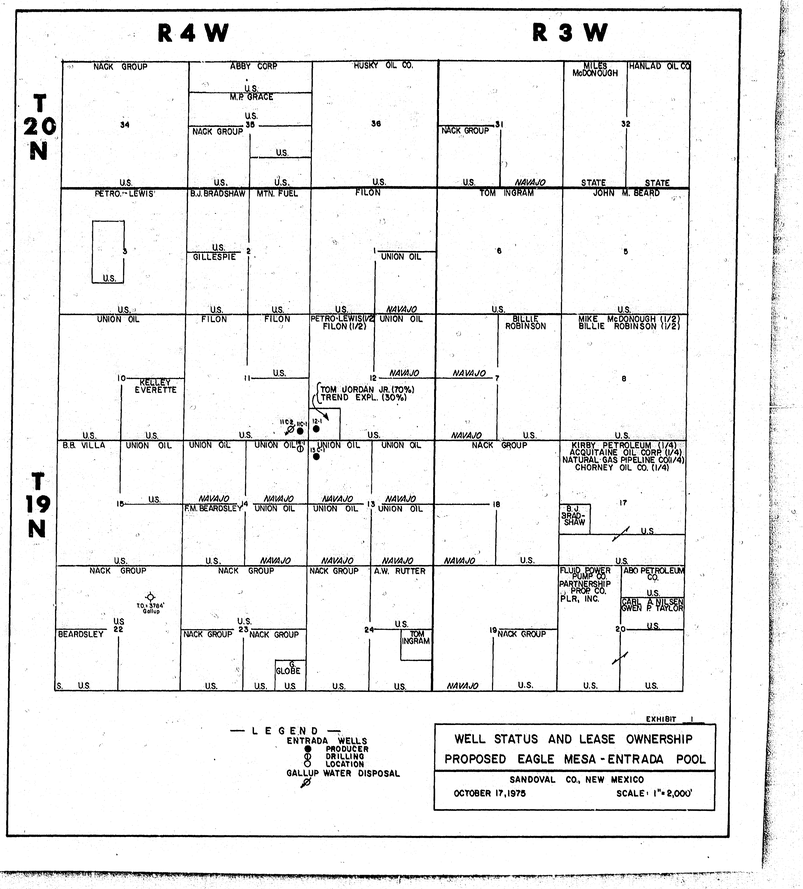
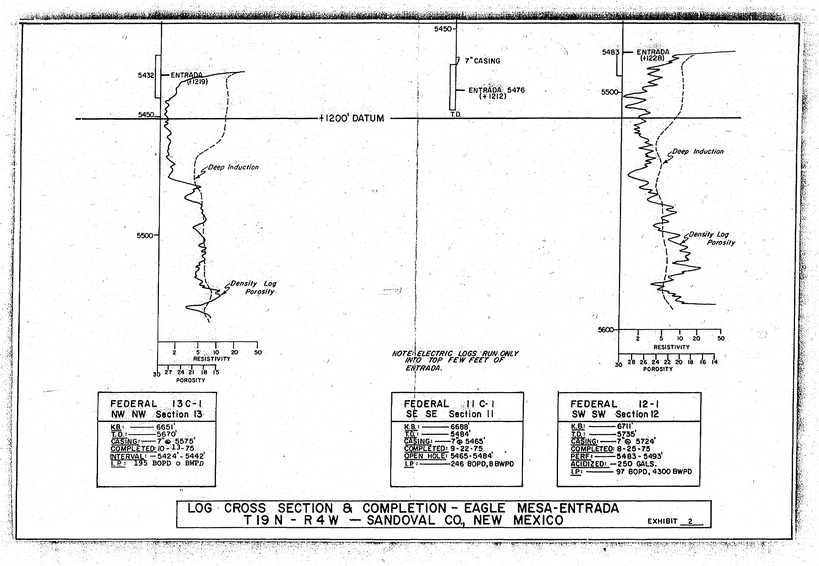
Case No
5574

Large Exhibits


R 4 W
R 3 W
T 20 N
T 19 N
N
NACK GROUP
ABBY CORP
U.S.
M.P GRACE
NACK GROUP
HUSKY OIL CO.
MILES McDONOUGH
HANLAD OIL CO
34
35
36
31
32
NAVAJO
STATE
PETRO.-LEWIS
B.J. BRADSHAW
MTN. FUEL
FILON
TOM INGRAM
JOHN M. BEARD
GILLESPIE
UNION OIL
6
5
1
2
3
UNION OIL
FILON
FILON
PETRO-LEWIS(1/2)
FILON (1/2)
UNION OIL
BILLIE ROBINSON
MIKE McDONOUGH (1/2)
BILLIE ROBINSON (1/2)
KELLEY EVERETTE
TOM JORDAN JR.(70%)
TREND EXPL. (30%)
7
8
10
11
12
B.B. VILLA
UNION OIL
UNION OIL
UNION OIL
UNION OIL
UNION OIL
NACK GROUP
KIRBY PETROLEUM (1/4)
ACQUITAINE OIL CORP (1/4)
NATURAL GAS PIPELINE CO(1/4)
CHORNEY OIL CO. (1/4)
15
14
13
18
17
F.M. BEARDSLEY
UNION OIL
UNION OIL
UNION OIL
B.J. BRADSHAW
NACK GROUP
NACK GROUP
NACK GROUP
A.W. RUTTER
FLUID POWER PUMP CO.
PARTNERSHIP PROD CO.
PLR, INC.
ABO PETROLEUM CO.
CARL A WILSON
OWEN P TAYLOR
TD 5764' Gallup
BEARDSLEY
NACK GROUP
NACK GROUP
TOM INGRAM
NACK GROUP
22
23
24
19
20
GLOBE
— LEGEND —
ENTRADA WELLS
PRODUCER
DRILLING
LOCATION
GALLUP WATER DISPOSAL
EXHIBIT 1
WELL STATUS AND LEASE OWNERSHIP
PROPOSED EAGLE MESA - ENTRADA POOL
SANDOVAL CO, NEW MEXICO
OCTOBER 17, 1975
SCALE: 1"=2,000'



FEDERAL 13C-1 NW NW Section 13
K.B.' —— 6651' T.D. —— 5670' CASING: —— 7" @ 5575' COMPLETED: 10-13-76 INTERVAL — 5424' - 5442' I.P.: 195 BOPD & BWPD

FEDERAL 11C-1 SE SE Section 11
K.B.' —— 6688' T.D. —— 5484' CASING: —— 7" @ 5465' COMPLETED: 9-22-75 OPEN HOLE: 5465-5484' I.P.: —— 246 BOPD, 8 BWPD

FEDERAL 12-1 SW SW Section 12
K.B.' —— 6711' T.D.' —— 5735' CASING: —— 7" @ 5724' COMPLETED: 8-25-75 PERF: —— 5483 - 5493' ACIDIZED: — 250 GALS. I.P.' —— 97 BOPD, 4300 BWPD

LOG CROSS SECTION & COMPLETION - EAGLE MESA-ENTRADA
T 19 N - R 4 W — SANDOVAL CO, NEW MEXICO

EXHIBIT 2

U.S.N.C.P. MICROGRAPHICS

R 4 W — R 3 W

T 20 N

NACK GROUP 34 U.S.	ABBY CORP U.S. M.P. GRACE U.S. 35 NACK GROUP U.S. U.S. U.S.	HUSKY OIL CO. 36 U.S.	31 NACK GROUP U.S. NAVAJO	MILES McDONOUGH / HANLAD OIL CO 32 STATE STATE
PETRO.-LEWIS 3 U.S. U.S.	B.J. BRADSHAW / MTN. FUEL U.S. GILLESPIE 2 U.S. U.S.	FILON 1 UNION OIL U.S. NAVAJO	TOM INGRAM 6 U.S.	JOHN M. BEARD 5 U.S.
UNION OIL 10 KELLEY EVERETTE U.S. U.S.	FILON / FILON 11 U.S. U.S.	PETRO-LEWIS / UNION OIL 12 NAVAJO Applied for Discovery U.S.	BILLIE ROBINSON NAVAJO 7 NAVAJO U.S.	MIKE McDONOUGH (1/2) BILLIE ROBINSON (1/2) 8 U.S.
B.B. VILLA / UNION OIL 15 U.S. U.S.	UNION OIL / UNION OIL NAVAJO NAVAJO F.M. BEARDSLEY / UNION OIL 14 U.S. NAVAJO	UNION OIL / UNION OIL NAVAJO NAVAJO UNION OIL / UNION OIL 13 NAVAJO NAVAJO	NACK GROUP 18 NAVAJO U.S.	KIRBY PETROLEUM (1/4) ACQUITAINE OIL CORP (1/4) NATURAL GAS PIPELINE CO(1/4) CHORNEY OIL CO. (1/4) 17 B.J. BRAD-SHAW U.S. U.S.
NACK GROUP T.D.= 3784' Gallup U.S. BEARDSLEY 22 S. U.S.	NACK GROUP / NACK GROUP U.S. 23 NACK GROUP G. GLOBE U.S. U.S. U.S.	NACK GROUP / A.W. RUTTER 24 U.S. TOM INGRAM U.S. U.S.	19 NACK GROUP NAVAJO U.S.	FLUID POWER PUMP CO PARTNERSHIP PROP CO. PLR, INC. ABO PETROLEUM CO. U.S. CARL A NILSEN GWEN P TAYLOR 20 U.S. U.S. U.S.

T 19 N

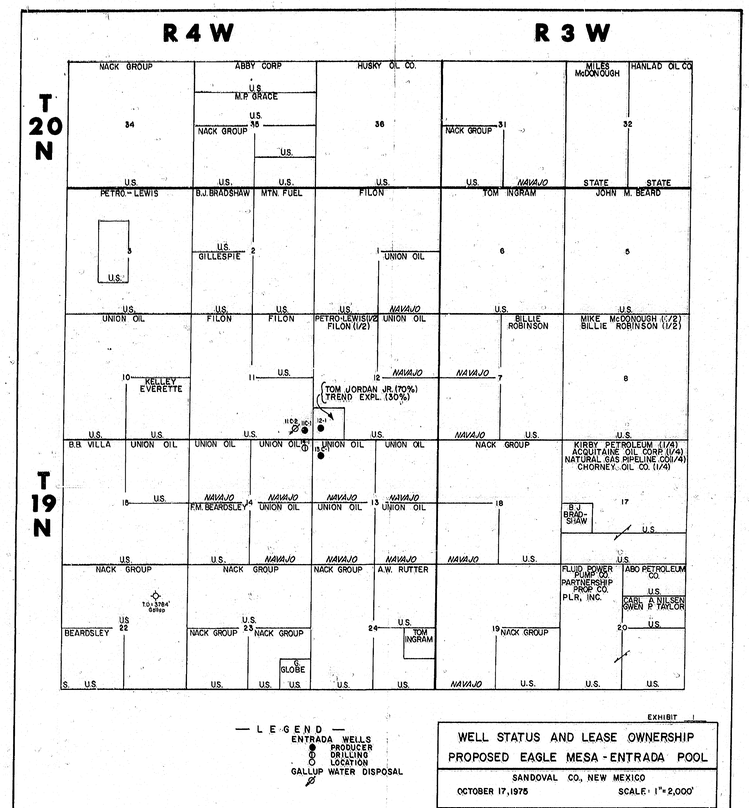
— LEGEND —

ENTRADA WELLS
- ● PRODUCER
- ◐ DRILLING
- ○ LOCATION

GALLUP WATER DISPOSAL
- ⌀

WELL STATUS AND LEASE OWNERSHIP
PROPOSED EAGLE MESA - ENTRADA POOL
SANDOVAL CO., NEW MEXICO
OCTOBER 8, 1975 — SCALE: 1" = 1,000'

U.S.G.S. PHOTOGRAPHIC



— LEGEND —

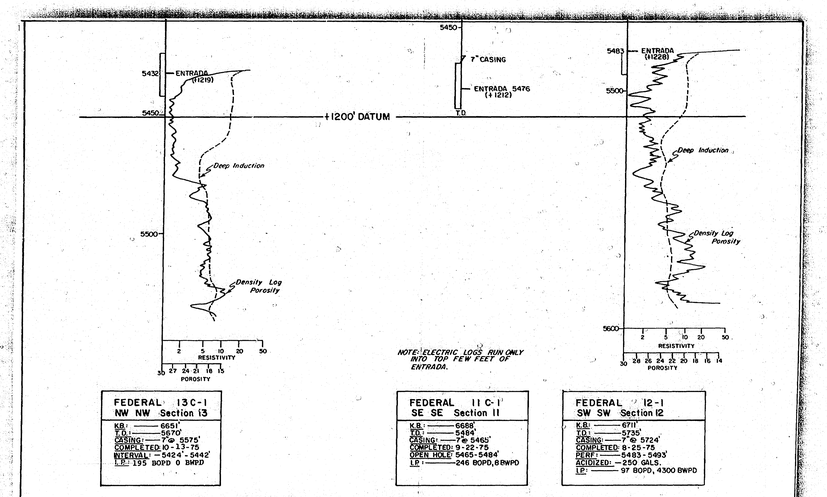
ENTRADA WELLS
- PRODUCER
- DRILLING
- LOCATION

GALLUP WATER DISPOSAL

EXHIBIT

WELL STATUS AND LEASE OWNERSHIP
PROPOSED EAGLE MESA - ENTRADA POOL
SANDOVAL CO., NEW MEXICO
OCTOBER 17, 1975 SCALE: 1" = 2,000'

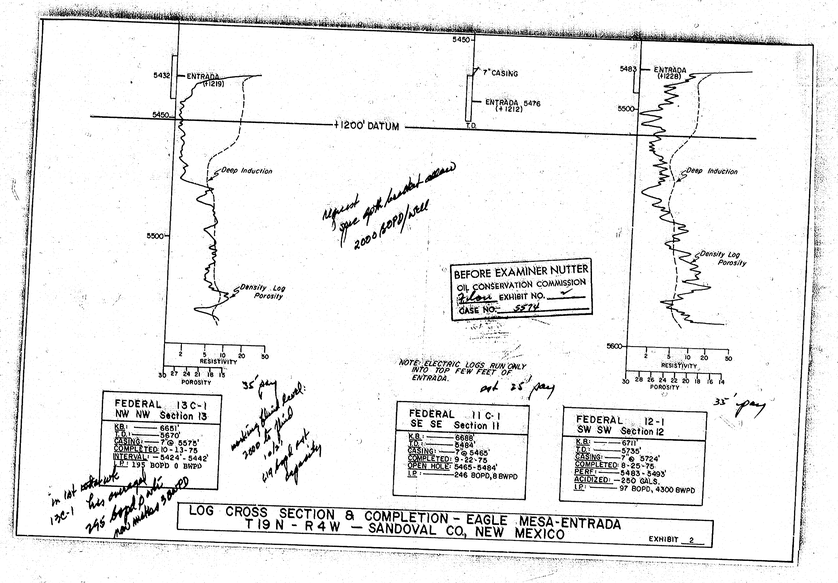
V.R.M.C.F. MICROGRAPHICS



LOG CROSS SECTION & COMPLETION - EAGLE MESA-ENTRADA
T 19 N - R 4 W — SANDOVAL CO, NEW MEXICO

EXHIBIT 2

V.R.C.F. MICROGRAPHICS



BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO. 2
CASE NO. 5574

W.N.M.C.P. MICROGRAPHICS

R 4 W

R 3 W

T 20 N

T 19 N

NACK GROUP — U.S. — 34

ABBY CORP — U.S. — M.P. GRACE — U.S. — NACK GROUP — 35 — U.S. — U.S. — U.S.

HUSKY OIL CO. — U.S. — 36 — U.S.

NACK GROUP — U.S. — 31 — U.S. — NAVAJO

MILES McDONOUGH — HANLAD OIL CO — 32 — STATE — STATE

PETRO.-LEWIS — U.S. — 3 — U.S.

B.J. BRADSHAW — U.S. — GILLESPIE — 2 — U.S. — U.S.

MTN. FUEL — U.S.

FILON — U.S. — 1 — UNION OIL — NAVAJO

TOM INGRAM — 6 — U.S.

JOHN M. BEARD — 5 — U.S.

UNION OIL — U.S. — 10 — KELLEY EVERETTE — U.S.

FILON — U.S. — 11 — U.S. — U.S.

FILON — U.S.

PETRO-LEWIS — U.S. — 12 — NAVAJO — U.S.

UNION OIL — NAVAJO

Applied for Discovery

BILLIE ROBINSON — NAVAJO — 7 — NAVAJO — U.S.

MIKE McDONOUGH (1/2) BILLIE ROBINSON (1/2) — 8 — U.S.

B.B. VILLA — U.S. — 15 — U.S. — U.S.

UNION OIL — U.S.

UNION OIL — NAVAJO — F.M. BEARDSLEY — 14 — NAVAJO — U.S. — NAVAJO

UNION OIL — 14-1 — NAVAJO

UNION OIL — NAVAJO — 13C-1 — 13 — NAVAJO

UNION OIL — NAVAJO

NACK GROUP — NAVAJO — 18 — NAVAJO — U.S.

KIRBY PETROLEUM (1/4)
ACQUITAINE OIL CORP. (1/4)
NATURAL GAS PIPELINE CO (1/4)
CHORNEY OIL CO. (1/4)

B.J. BRADSHAW — 17 — U.S. — U.S.

NACK GROUP — T.D.= 3784' Gallup — U.S. — BEARDSLEY — 22 — U.S. — S. U.S.

NACK GROUP — U.S. — 23 — NACK GROUP — U.S. — U.S.

NACK GROUP — G. GLOBE — U.S. — U.S.

NACK GROUP — A.W. RUTTER — U.S. — 24 — U.S. — TOM INGRAM — U.S.

19 — NACK GROUP — NAVAJO — U.S.

FLUID POWER PUMP CO.
PARTNERSHIP PROP CO.
PLR, INC. — U.S.

ABO PETROLEUM CO. — U.S. — CARL A NILSEN — GWEN P. TAYLOR — 20 — U.S. — U.S.

— L E G E N D —

ENTRADA WELLS
- ● PRODUCER
- ◑ DRILLING
- ○ LOCATION

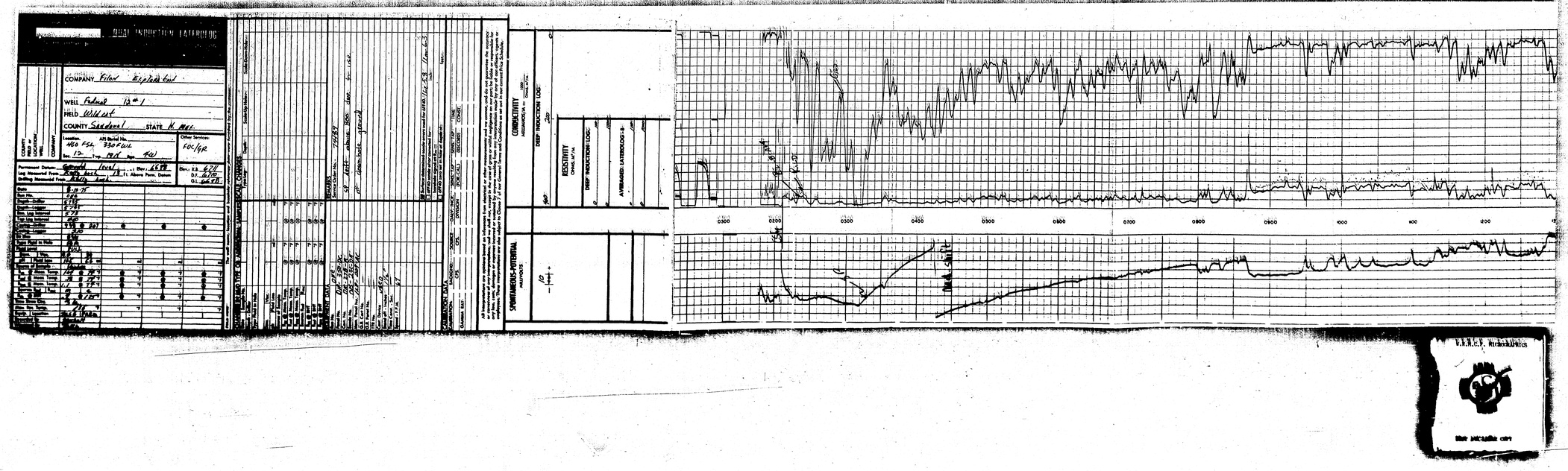
GALLUP WATER DISPOSAL

WELL STATUS AND LEASE OWNERSHIP
PROPOSED EAGLE MESA - ENTRADA POOL

SANDOVAL CO., NEW MEXICO

OCTOBER 8, 1975 — SCALE: 1" = 1,000'

V.N.R.C.P. MICROGRAPHICS
BEST AVAILABLE COPY


DUAL INDUCTION LATEROLOG
COMPANY Filon Exploration
WELL Federal 12 #1
FIELD Wildcat
COUNTY Sandoval STATE N. MEX.
Other Services: FDC/GR
CONDUCTIVITY
RESISTIVITY
SPONTANEOUS-POTENTIAL
DUAL INDUCTION LOG
AVERAGED LATEROLOG-R
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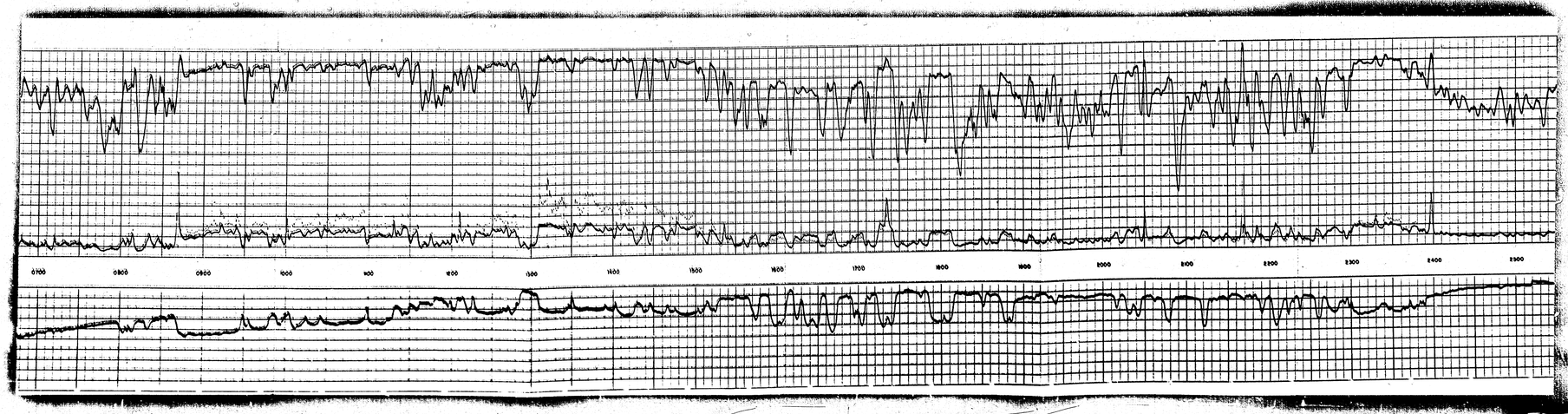
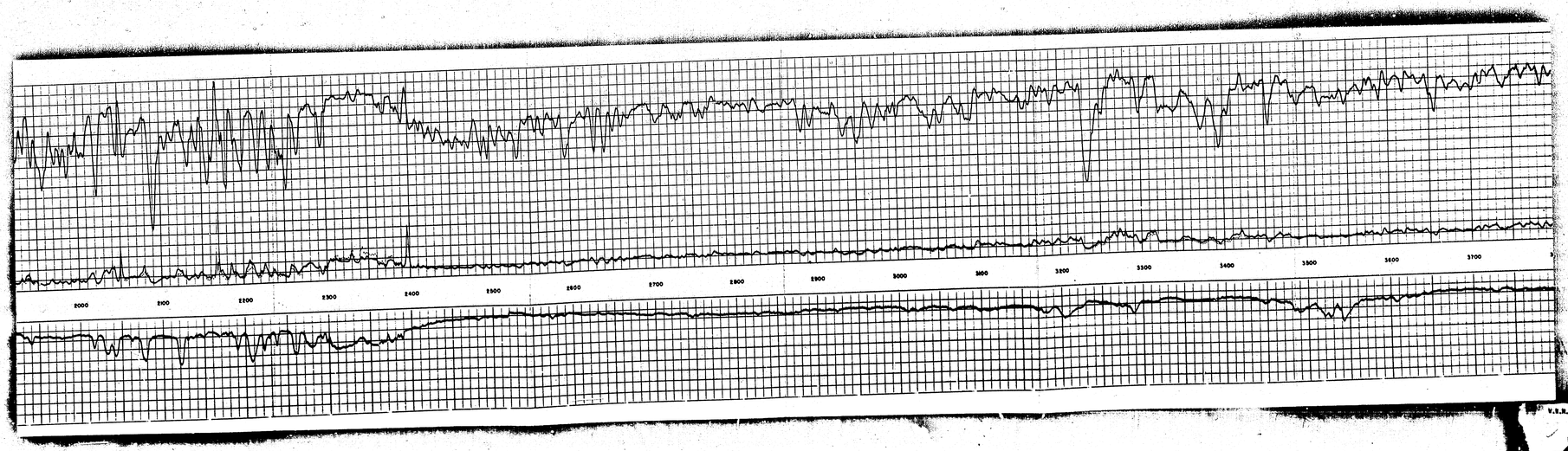
0800
0900
1000
1100
1200



V.R.R.C.P. MICROGRAPHICS



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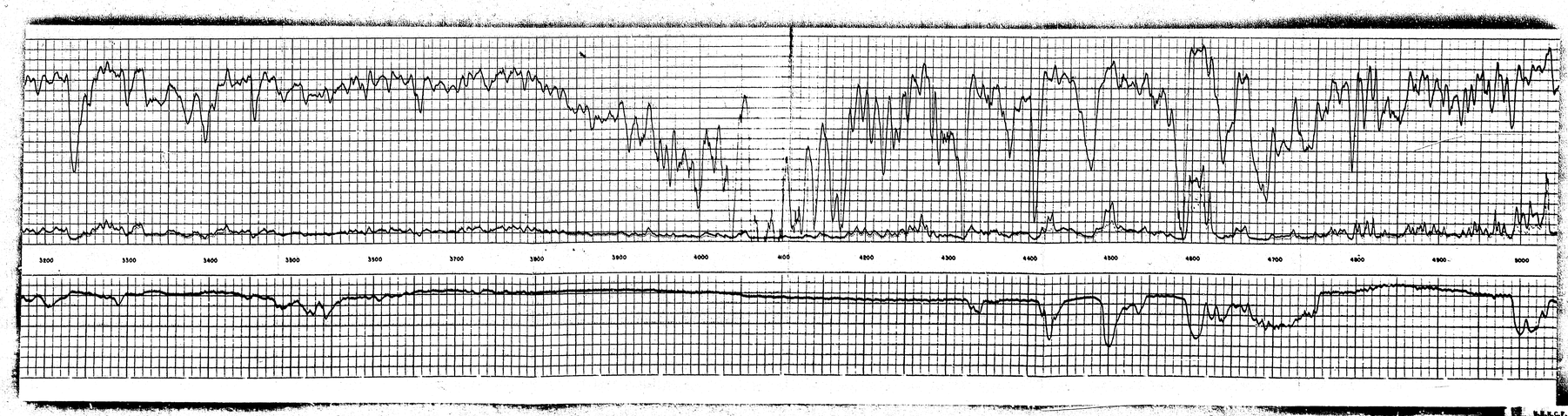
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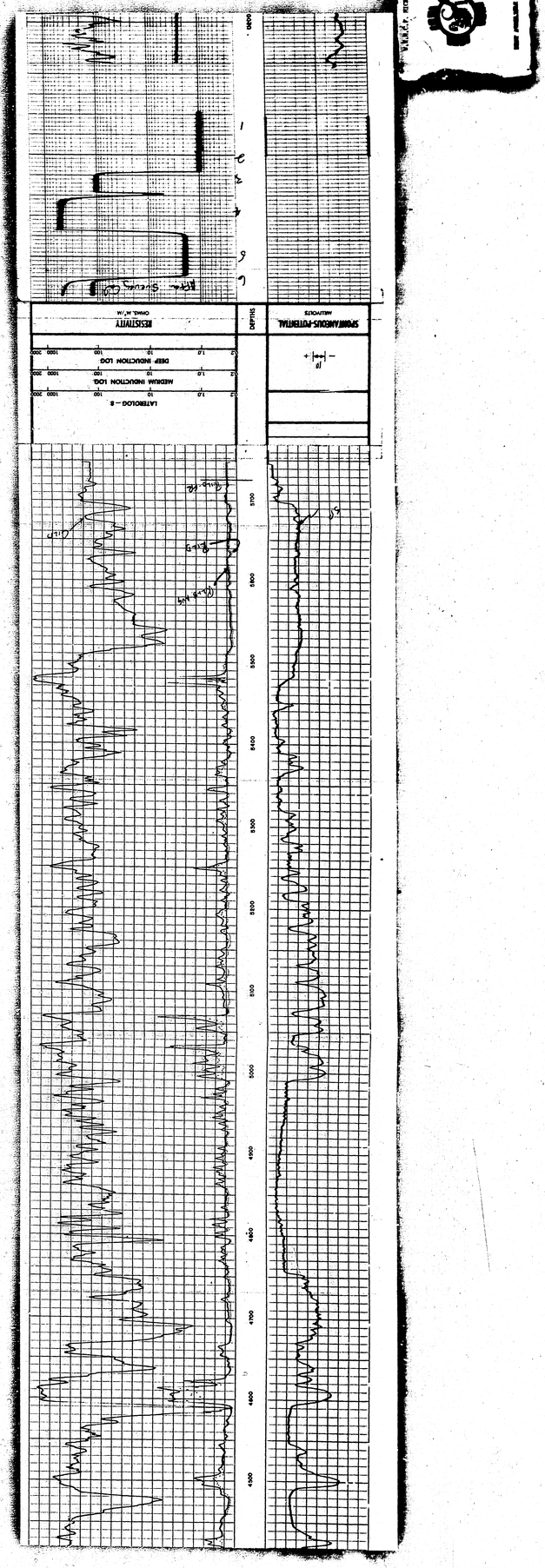
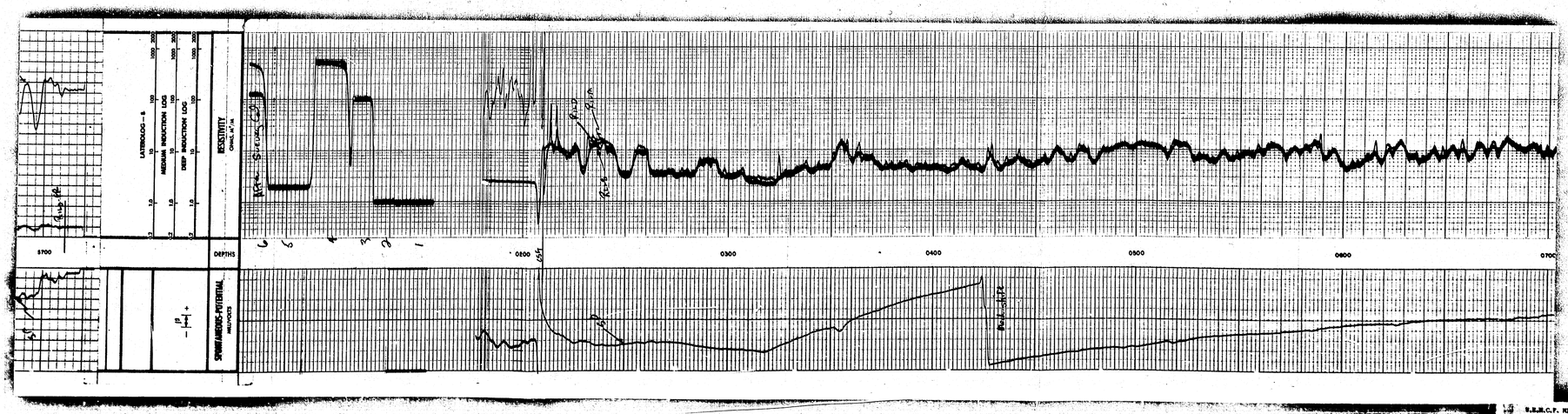
5000


SPONTANEOUS-POTENTIAL
MILLIVOLTS
RESISTIVITY
OHMS, M²/M
DEPTHS
LATEROLOG – R
MEDIUM INDUCTION LOG
DEEP INDUCTION LOG
5700
5600
5500
5400
5300
5200
5100
5000
4900
4800
4700
4600
4500



N.E.M.C.P. MICROGRAPHICS
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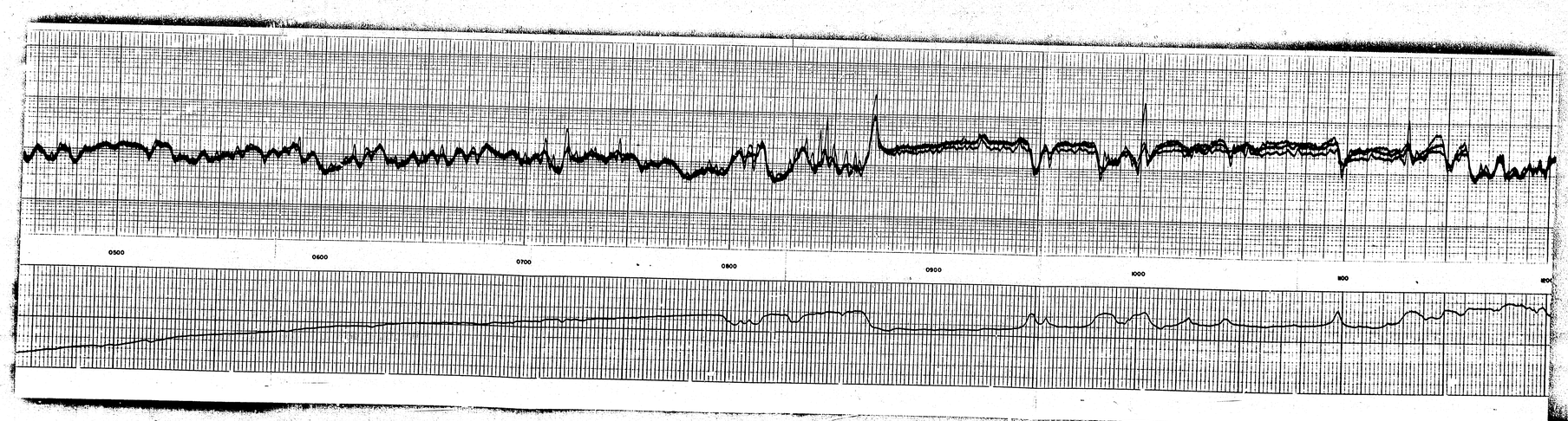

U.S. NAVAL OCEANOGRAPHIC MICROGRAPHICS
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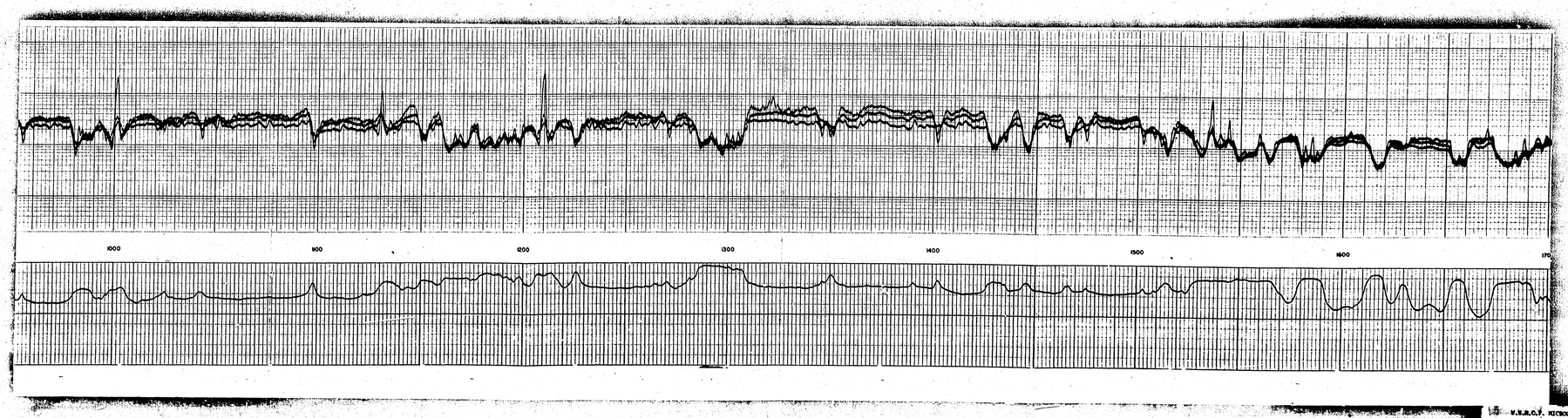

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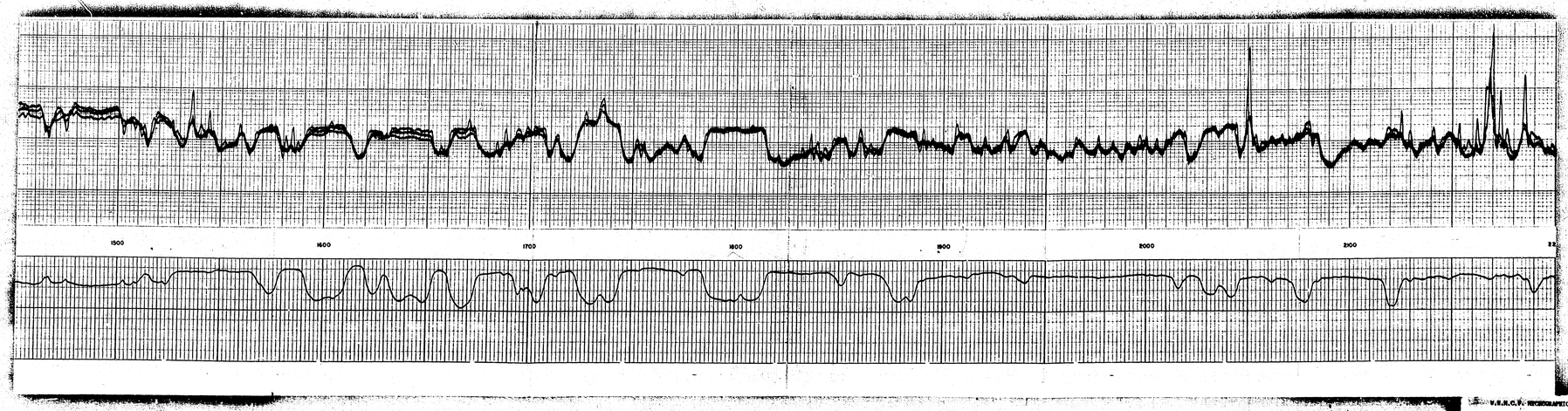

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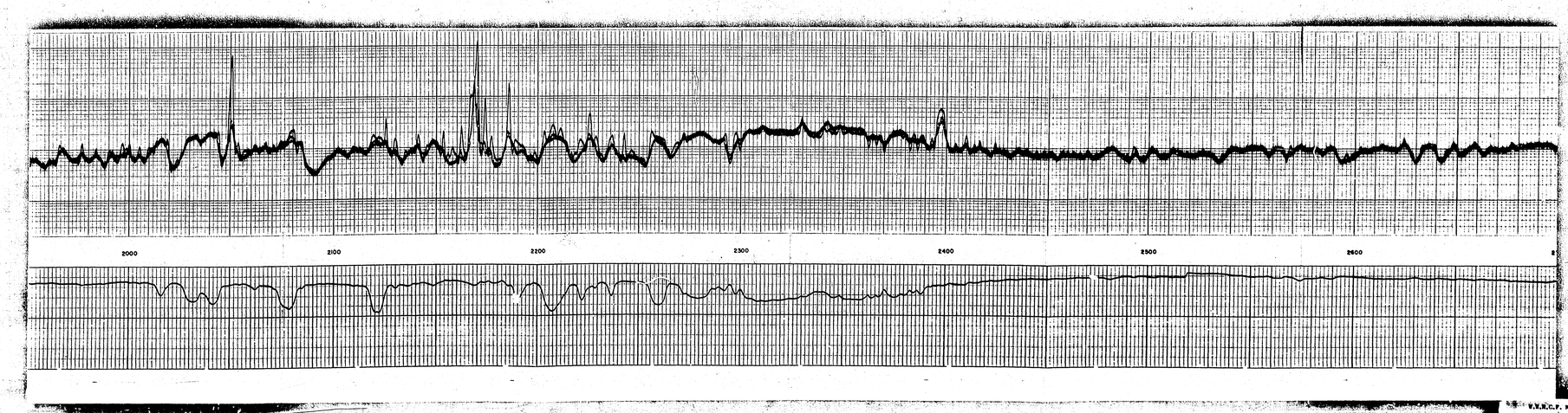

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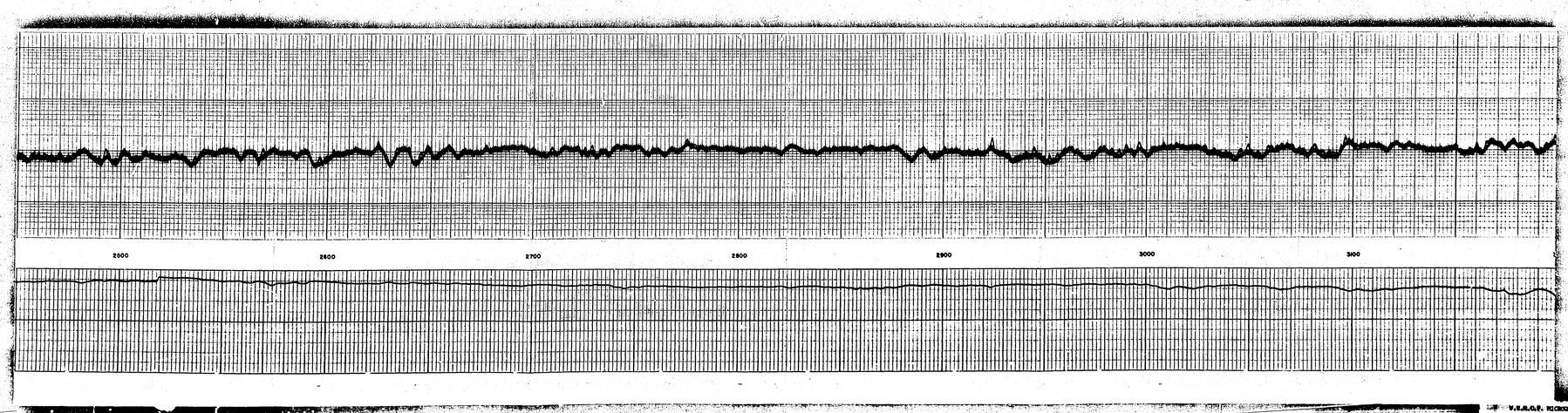

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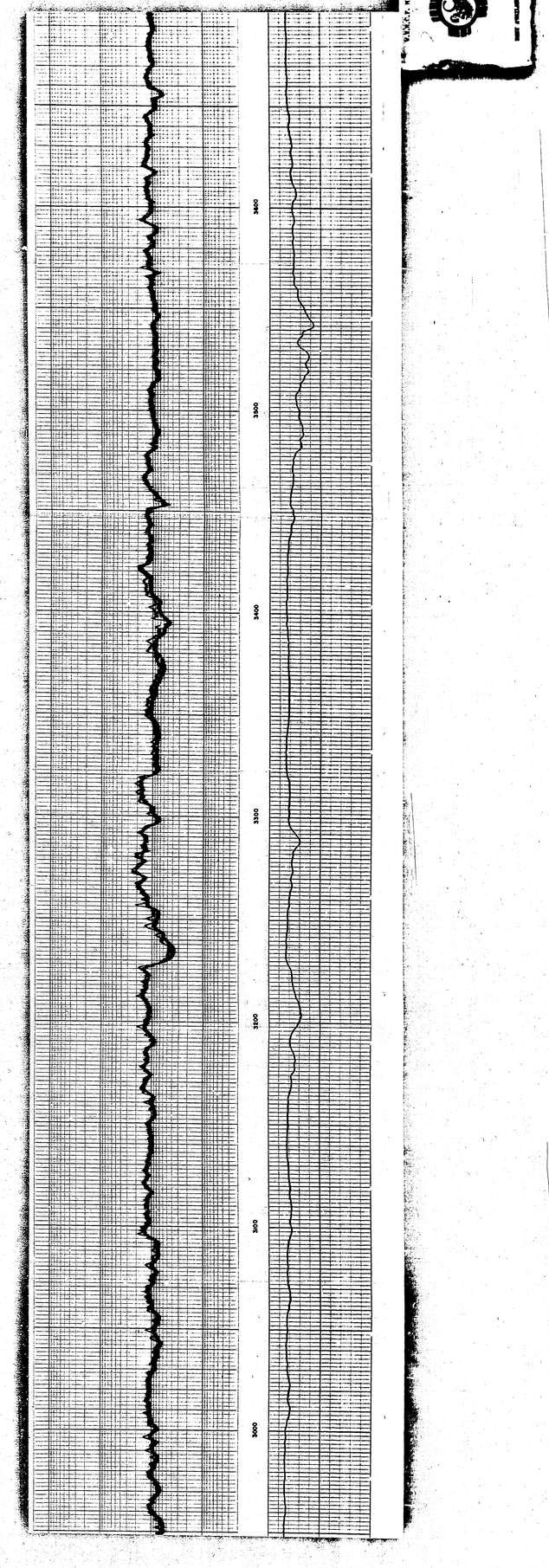
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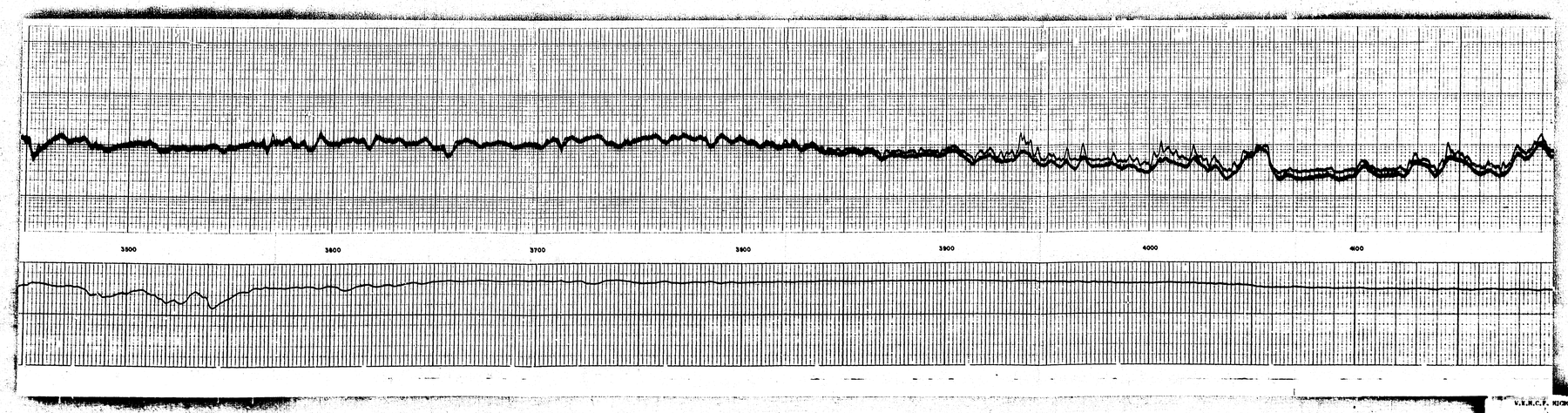

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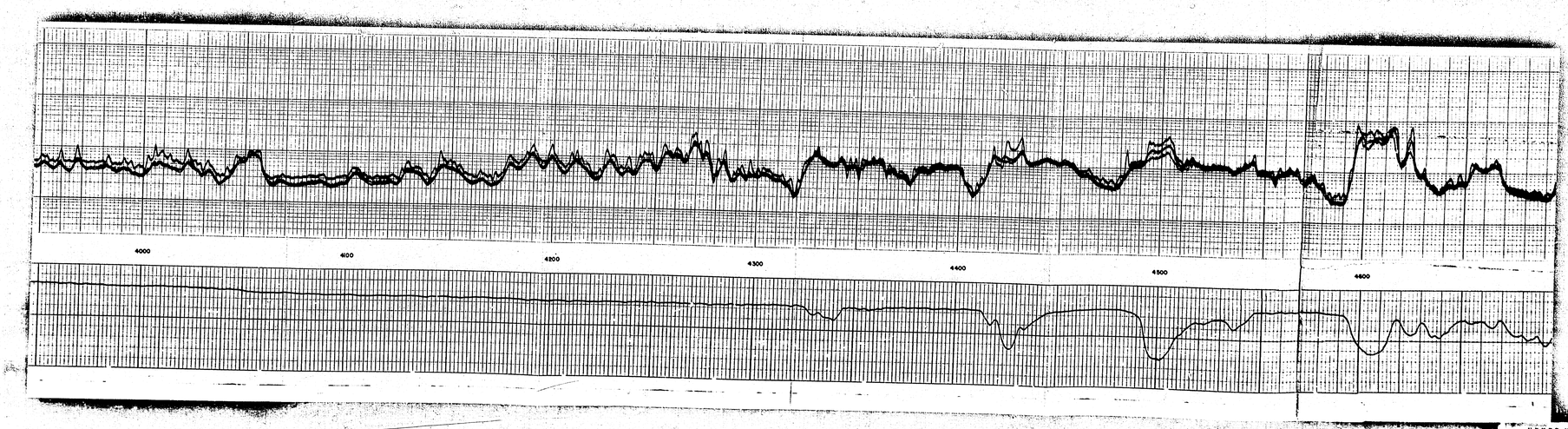

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V.N.M.C.F. MICROGRAPHICS
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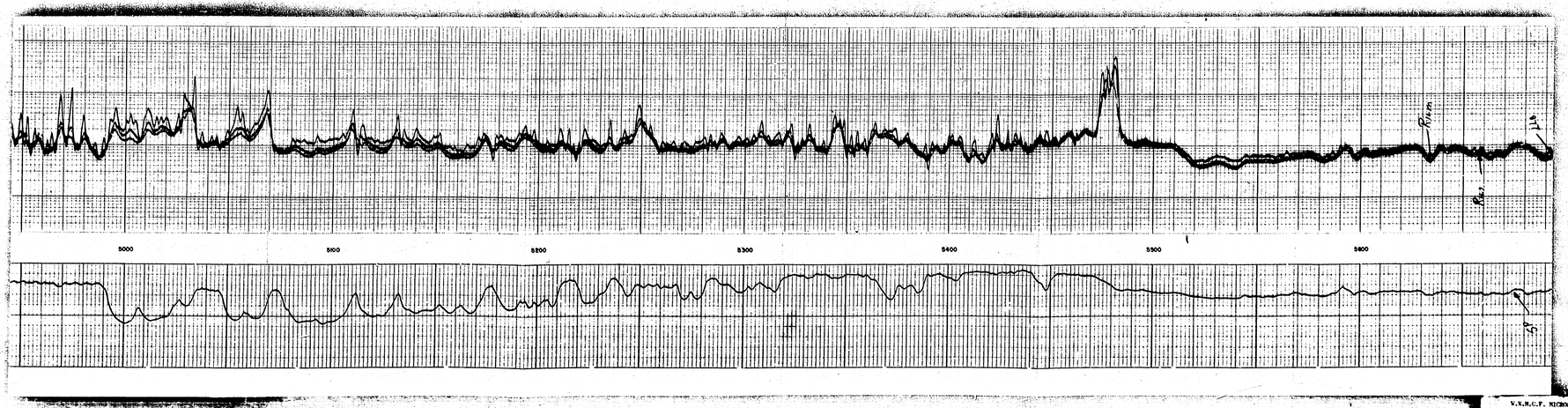

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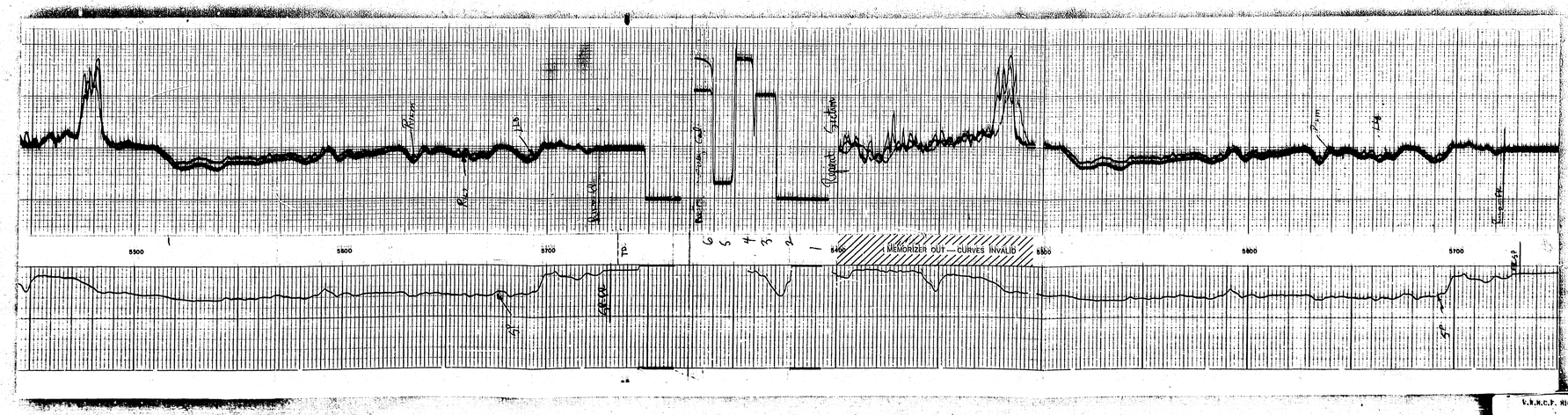

V.R.N.C.F. Microfilms
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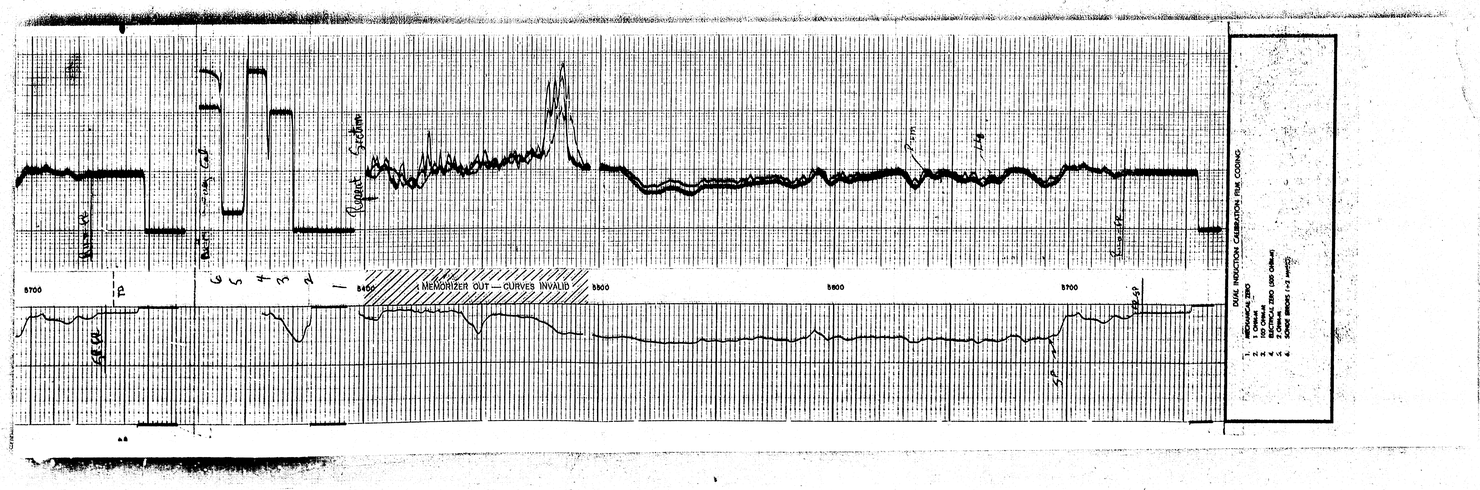


V.E.M.G.P. RADIOGRAPHICS
NOT PURCHASABLE COPY

Schlumberger

DUAL-INDUCTION LATEROLOG
with LINEAR CORRELATION LOG

COMPANY Pilot Exploration
WELL Federal 12-1
FIELD Wildcat
COUNTY Sandoval STATE N. MEX.

Location: 460 FSL 990 FWL
Sec. 12 Twp. 18N Rge. 4W
API Serial No.
Other Services: LDC/GR

Permanent Datum: Ground Level Elev.: K.B. 6711
Log Measured From: KB 13 Ft. Above Perm. Datum D.F. 6710
Drilling Measured From: KB G.L. 6698

Date	8-10-71		
Run No.	One		
Depth—Driller	5750		
Depth—Logger	5795		
Btm. Log Interval	5793		
Top Log Interval	Surface		
Casing—Driller	9 5/8 @ 261		
Casing—Logger	270		
Bit Size	8 1/4		
Type Fluid in Hole	Gel-Chem		
Fluid Level	Full		
Density	9.0		
pH / Fluid Loss	10.5 / 6.4 cc		
Source of Sample	Ditch		
Rm @ Meas. Temp.	.76 @ 74°F		
Rmf @ Meas. Temp.	.78 @ 72°F		
Rmc @ Meas. Temp.	1.1 @ 71°F		
Source: Rmf / Rmc	Rmf		
Rm @ BHT	.7 @ 120°F		
Time Since Circ.	3 hrs		
Max. Rec. Temp.	120°F		
Equip. Location	7665 FARM		
Recorded By	Kennedy		
Witnessed By	Mills		

RELEASED
OCT 20 1971
FROM CONFIDENTIAL

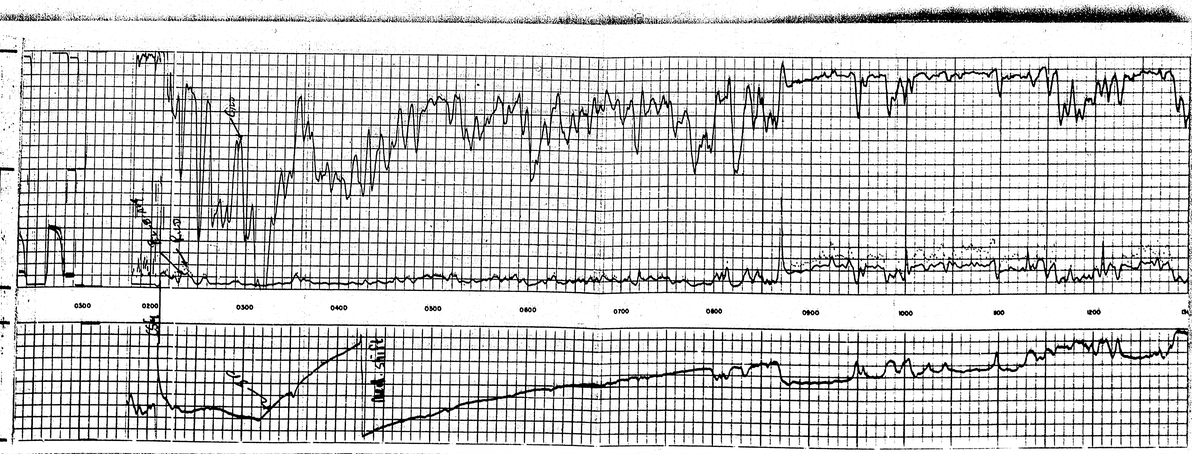
REMARKS
Service Order No. 771989
58' Date shoe. 100' Ave. to use.
Ø Base hole ground

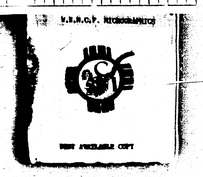
CALIBRATION DATA

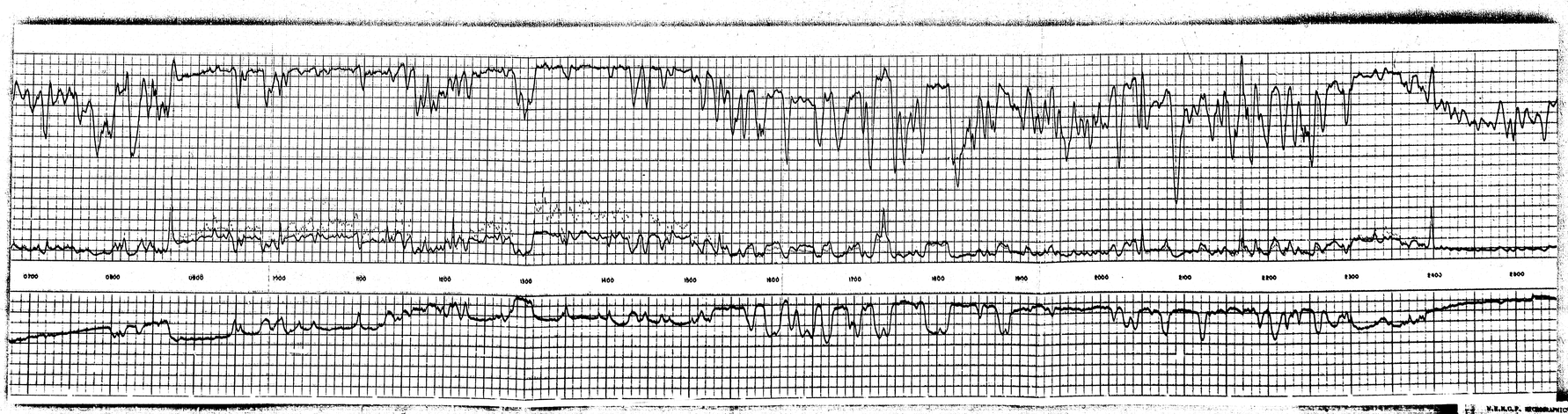
	BEFORE	AFTER
Date	8-10-71	
Run No.	ONE	
DIL Cal. No.	DIL-59-SC	
DIL Cal. No.	DIL-25-SC	
LL-8 Cal. No.	DIL-59-SC	
LL-8 Cal. No.	—	
SFL Cal. No.	—	
Log Start	5790	
Log Stop	260	
Logging Speed	60	
Time Constant	1 Sec.	

CONDUCTIVITY — MILLIMHOS/M — DEEP INDUCTION LOG — 0 / 20
RESISTIVITY — OHMS/M — DEEP INDUCTION LOG — 0 / 20 — AVERAGED LATEROLOG-8 — 0 / 40
SPONTANEOUS-POTENTIAL — MILLIVOLTS — 10 / 0 / -10

All Schlumberger interpretations are opinions based on inferences from electrical or other measurements and, we cannot, and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, cost, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our General Terms and Conditions set forth in our current Price Schedule.



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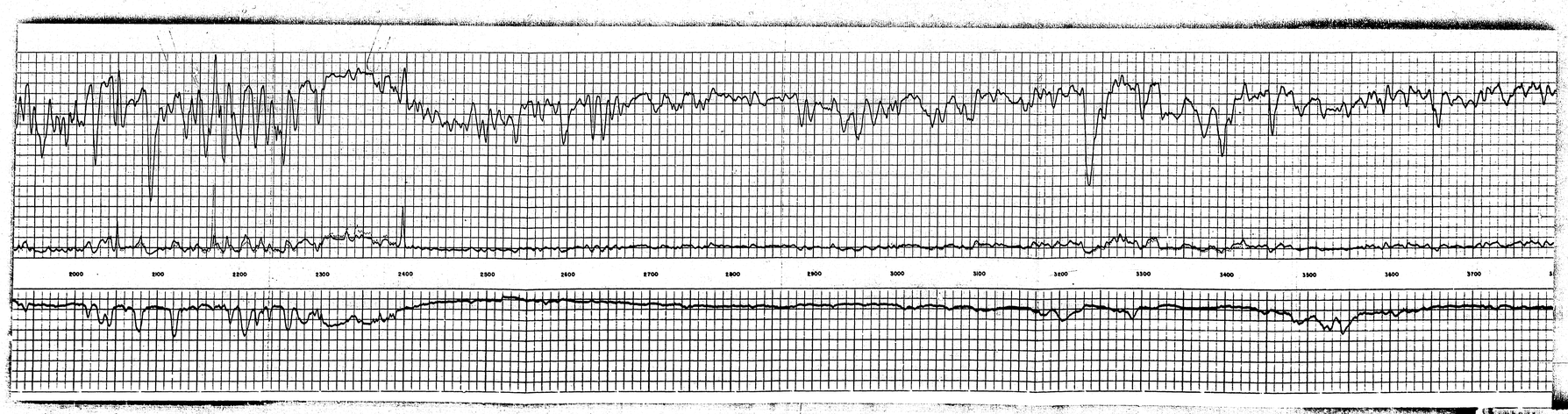
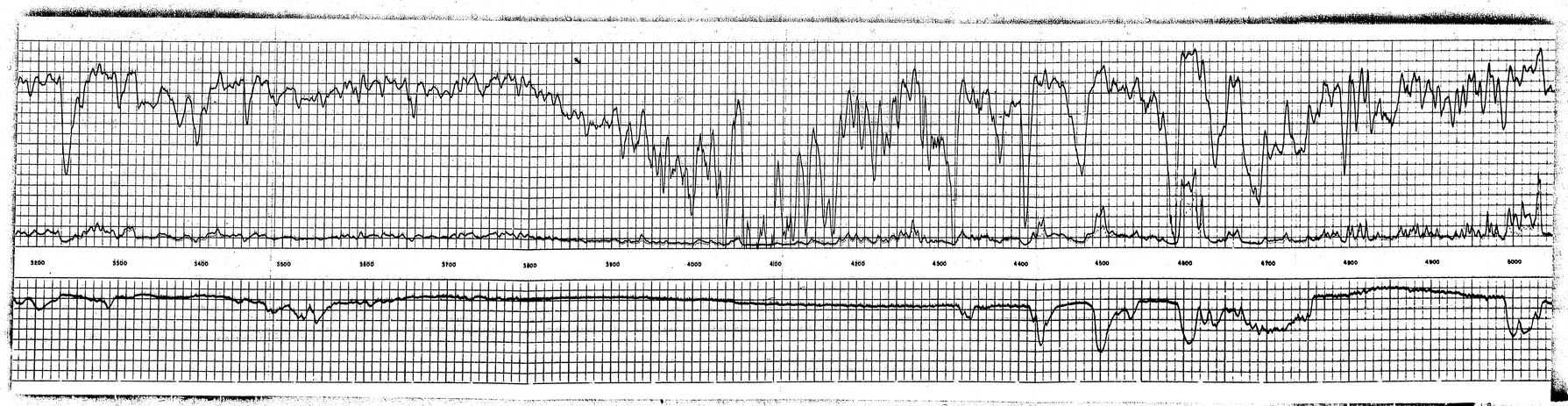


U.S.D.A. MICROGRAPHICS
BEST AVAILABLE COPY



U.S. DEPARTMENT OF COMMERCE
NATIONAL TECHNICAL INFORMATION SERVICE
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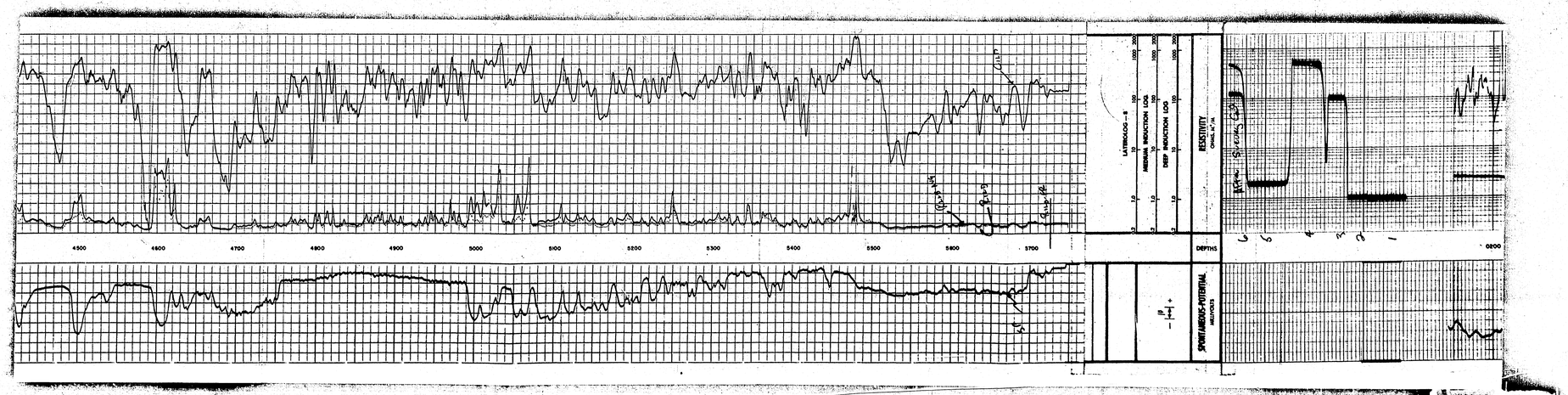

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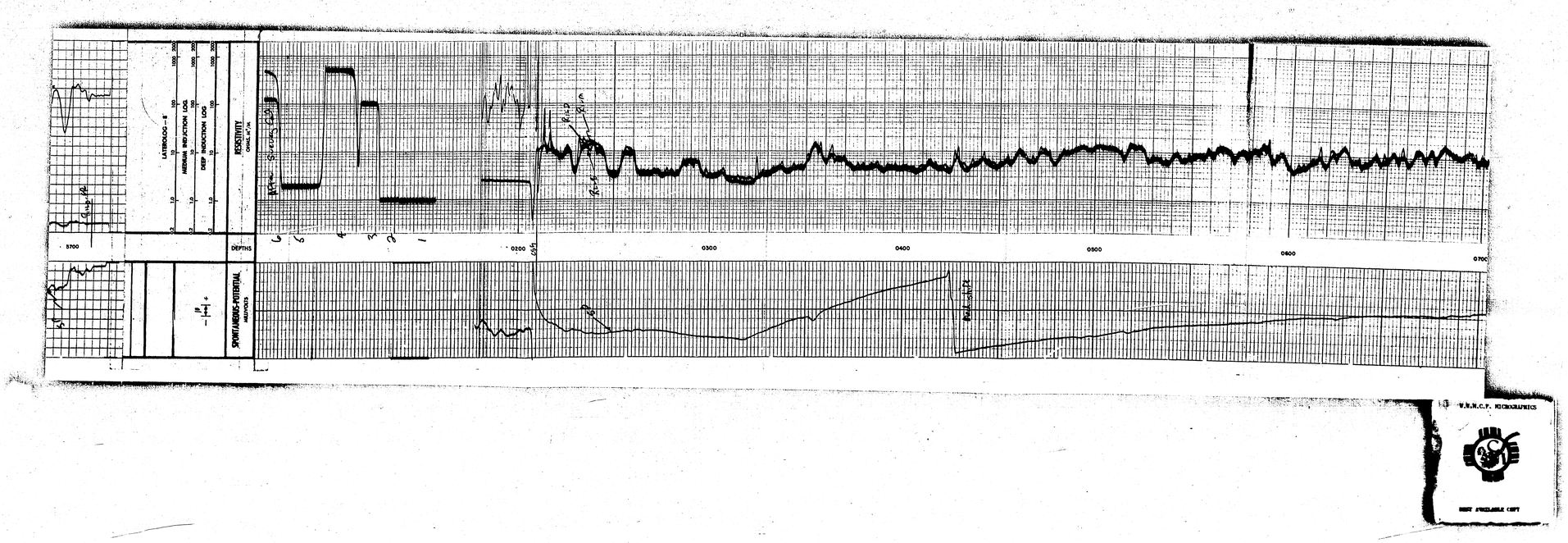

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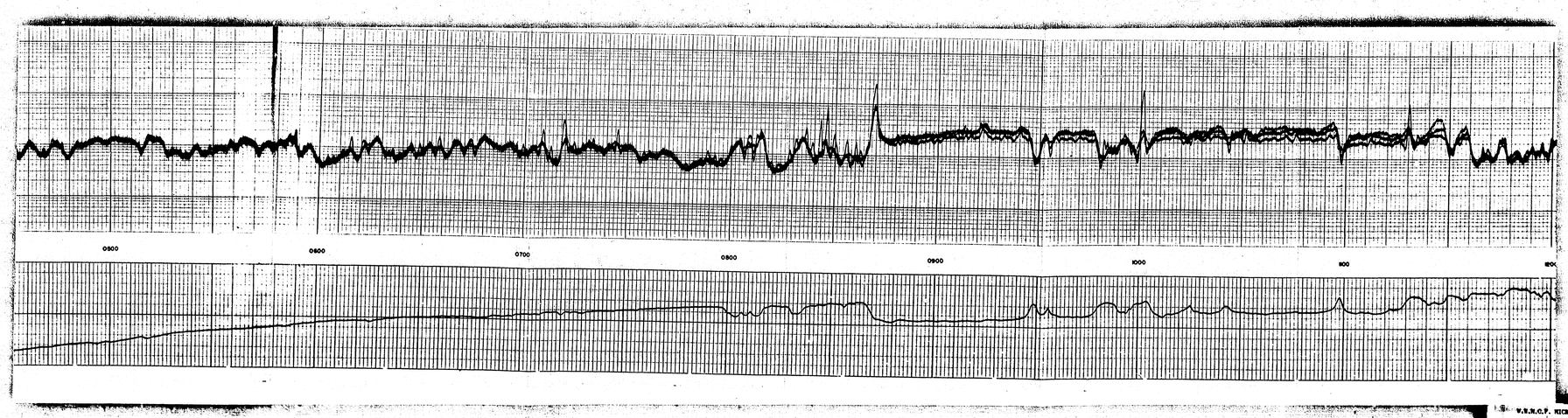

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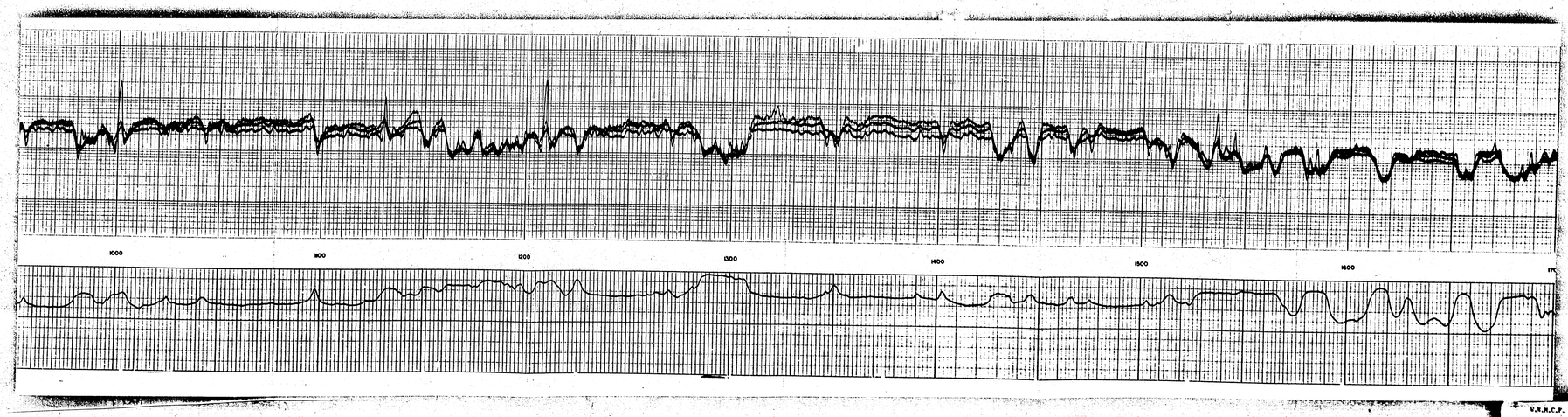

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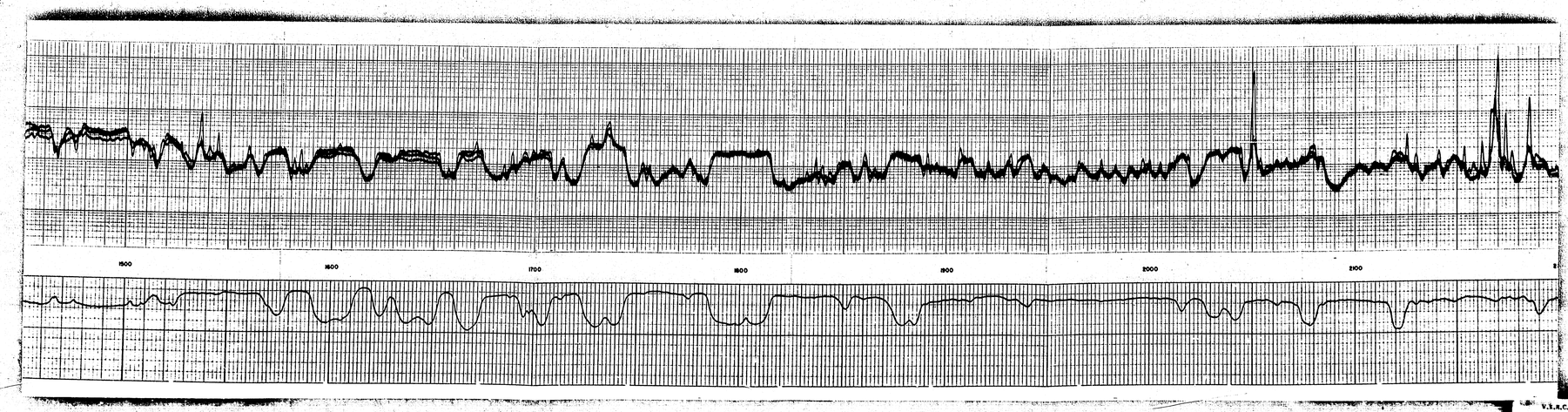

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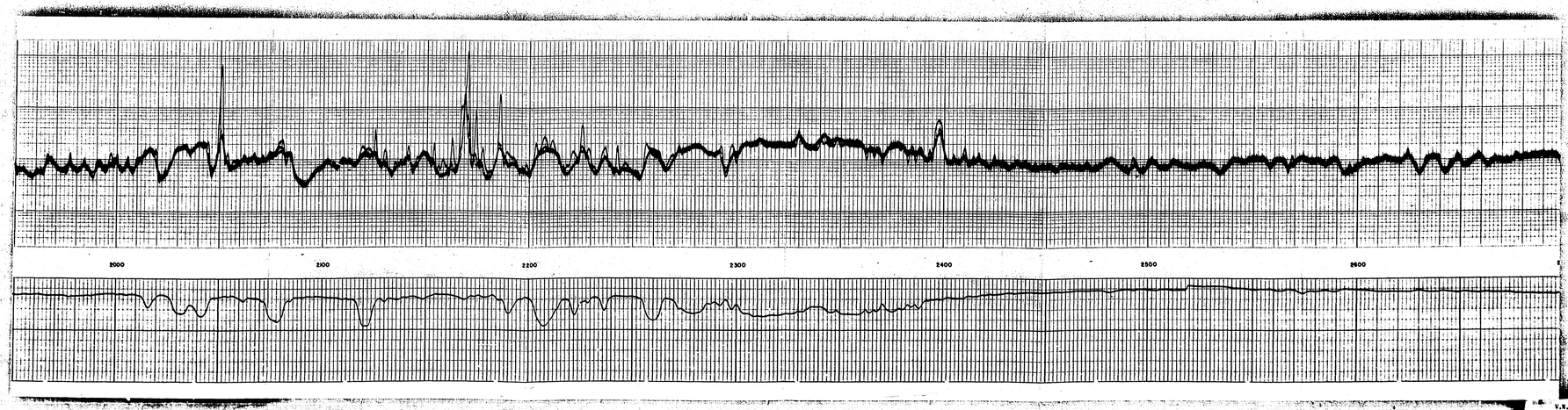

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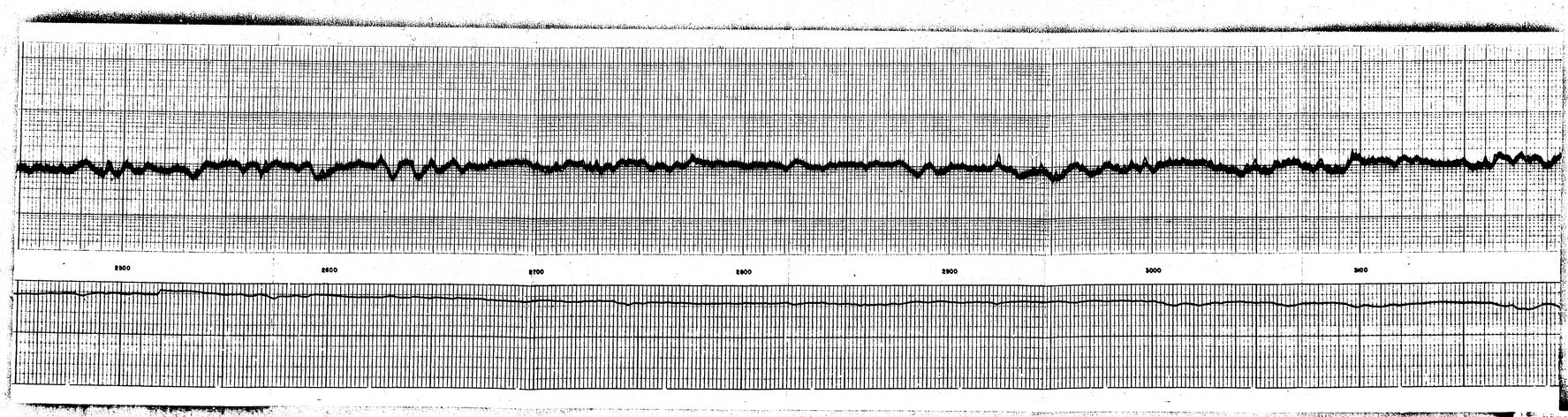

© V.T.N.C.F. MICROGRAPHICS
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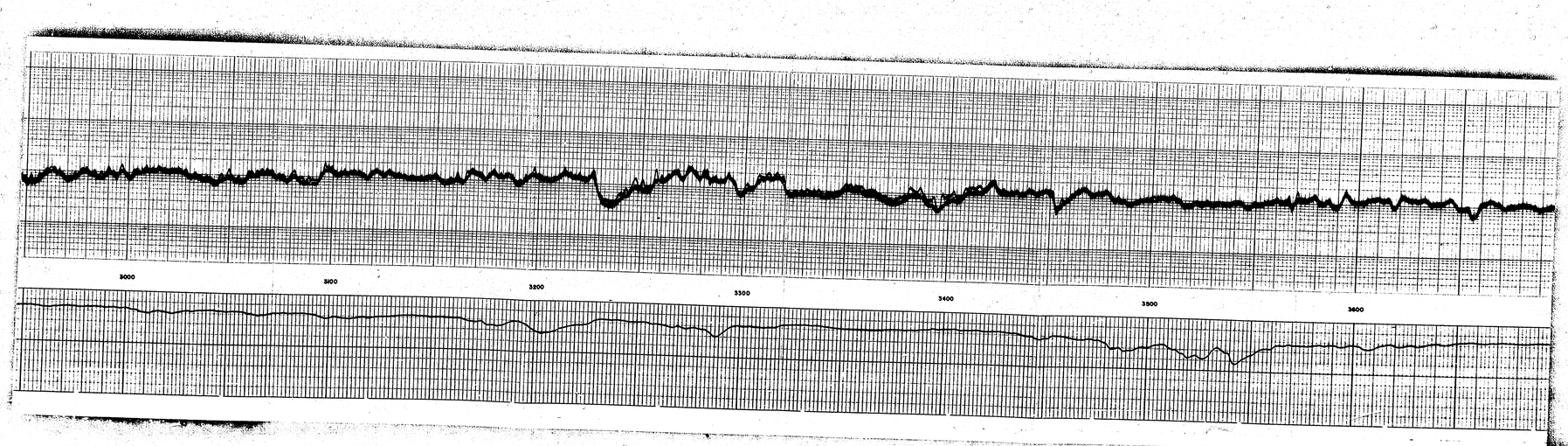

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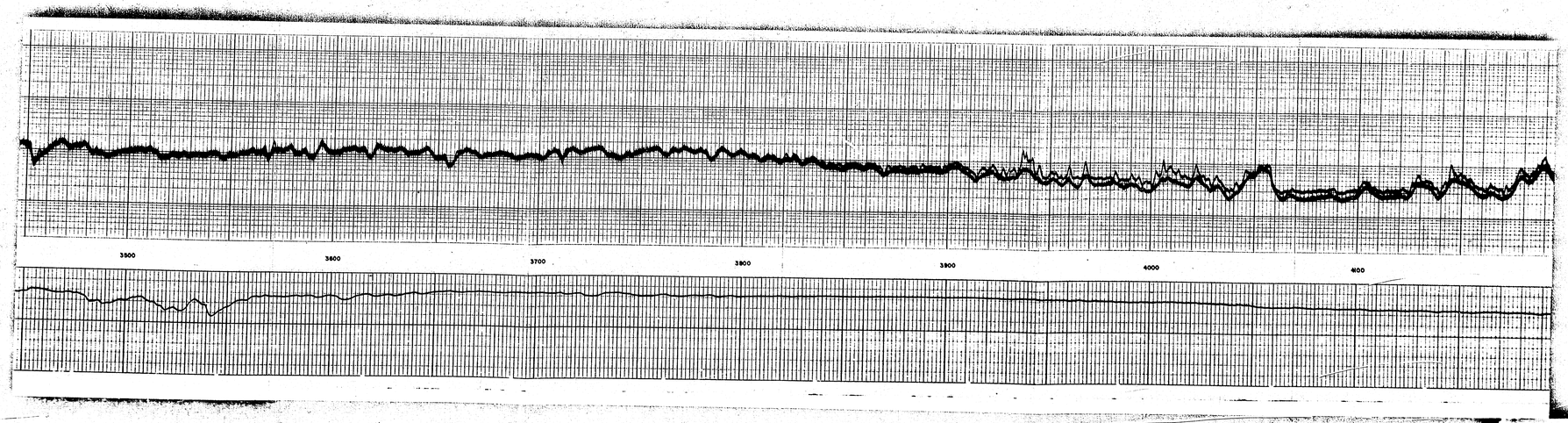

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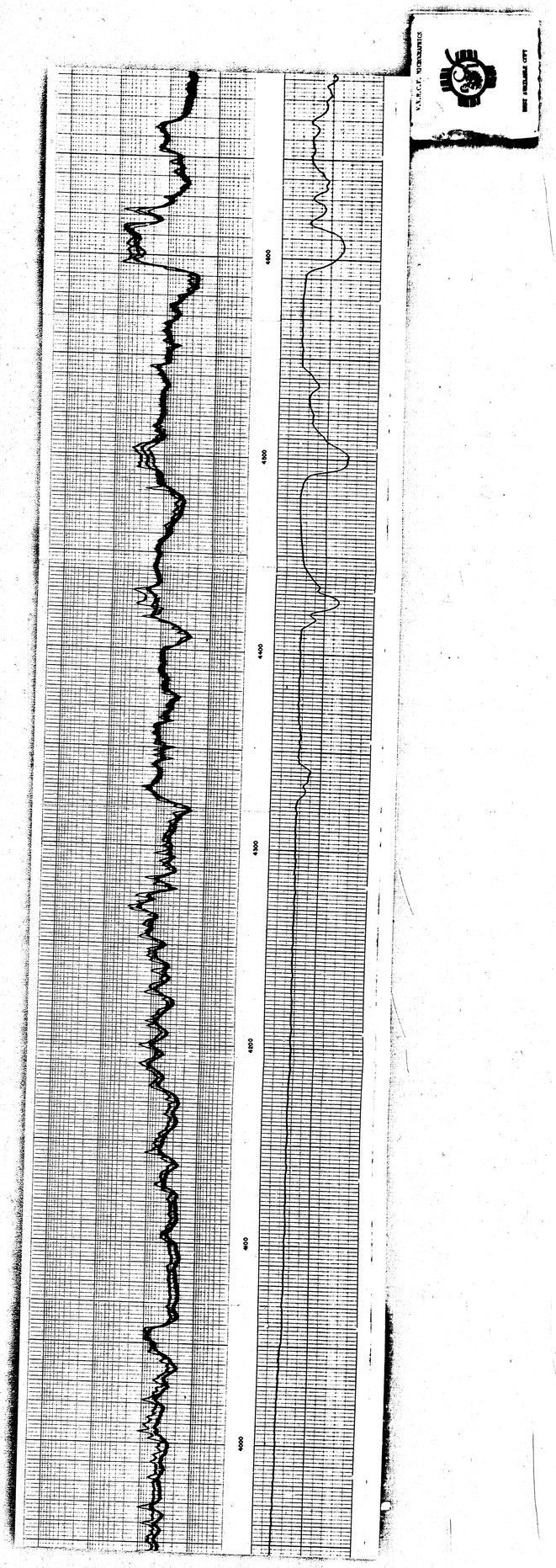
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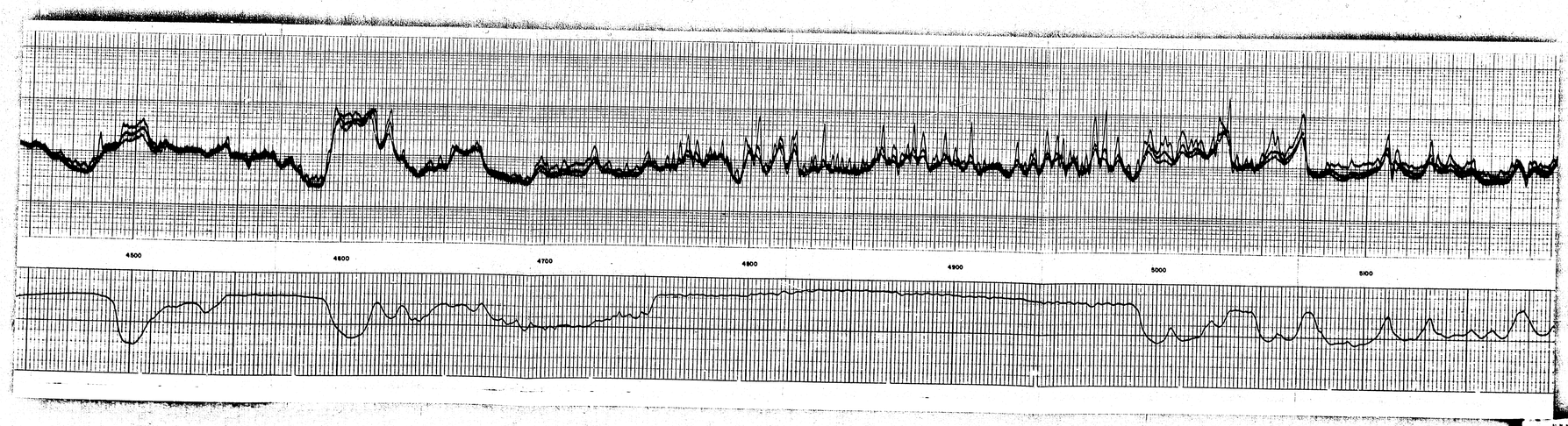

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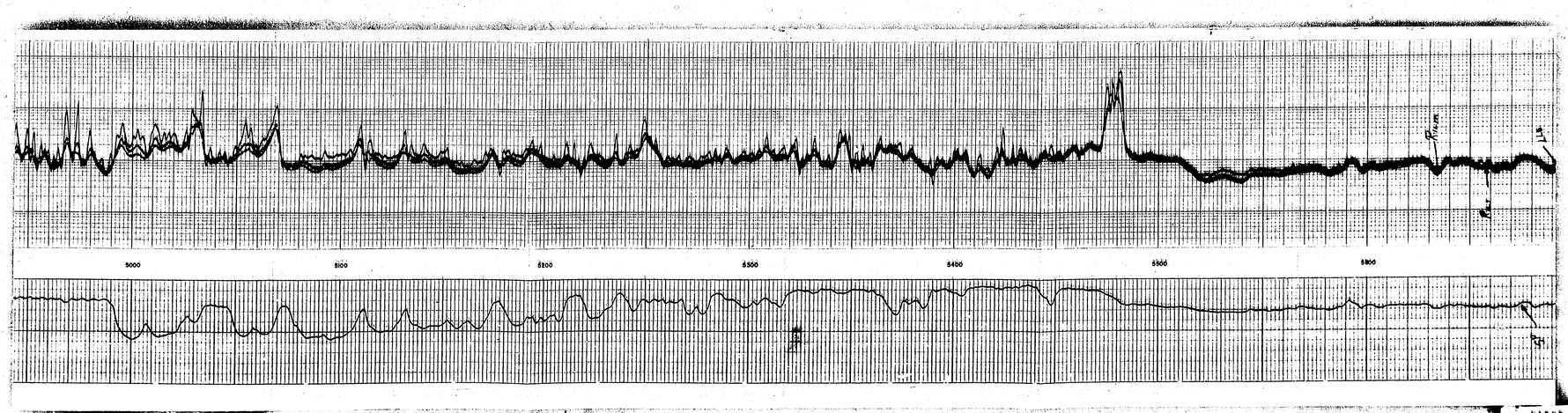
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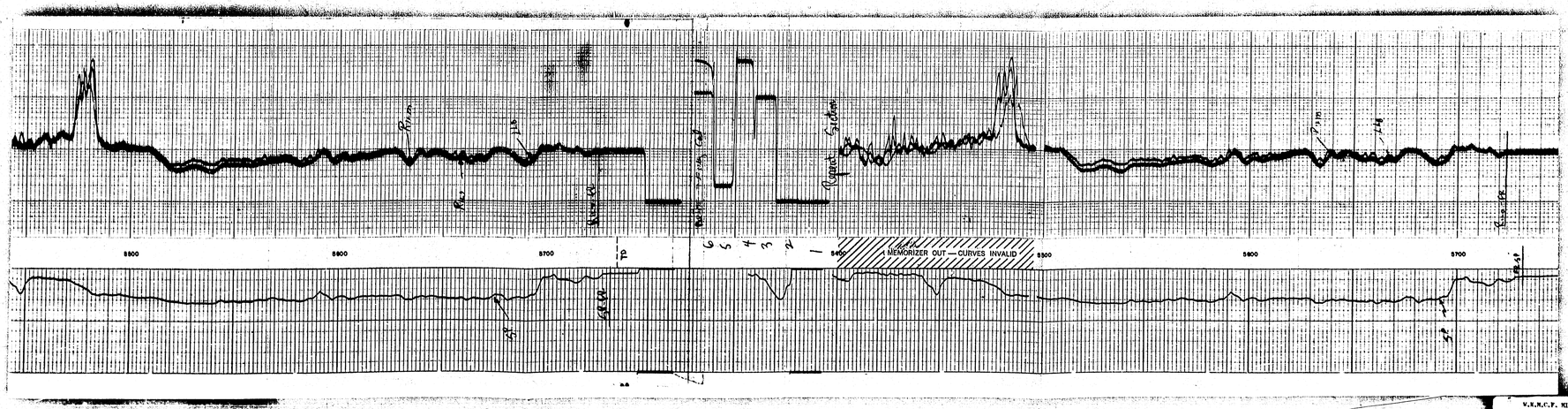

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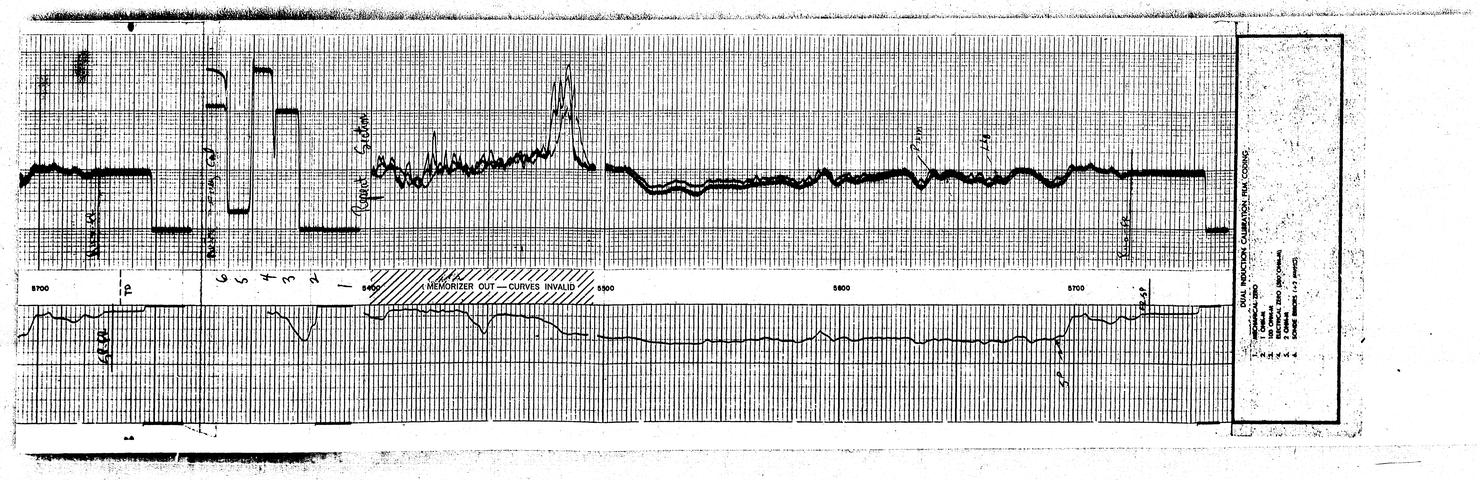

W.N.R.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

TOPS

Schlumberger

COMPENSATED FORMATION DENSITY LOG

Gamma Gamma

COMPANY Filed Exploration

WELL Federal 12 #1

FIELD Wildcat

COUNTY Goddard STATE N. Mex.

Location: 960 FSL 350 FWL

Sec. 12 Twp. 19N Rge. 4W

API Serial No.

Other Services: DIL

Permanent Datum: Ground Level Elev.: 6678

Log Measured from: Kelly bush 12 Ft. Above Perm. Datum

Drilling Measured from: Kelly bush.

Elev.: K.B. 6711 D.F. 6710 G.L. 6678

Date	6-10-76				
Run No.	ONE				
Depth - Driller	6795				
Depth - Logger	6795				
Btm. Log Interval	6795				
Top Log Interval	3000				
Casing - Driller	9 5/8 @ 301	@	@	@	
Casing - Logger	320				
Bit Size	8 3/4				
Type Fluid in Hole	GEL				
Fluid Level	FULL				
Density / Visc.	8.9 39				
pH / Fluid Loss	10.5 5.2 ml	ml	ml	ml	ml
Source of Sample	Flowline				
R_m @ Meas. Temp.	1.82 @ 74 °F	@ °F	@ °F	@ °F	@ °F
R_mf @ Meas. Temp.	.78 @ 74 °F	@ °F	@ °F	@ °F	@ °F
R_mc @ Meas. Temp.	1.3 @ 74 °F	@ °F	@ °F	@ °F	@ °F
Source: R_mf / R_mc	M C				
R_m @ BHT	.9 @ 158 °F	@ °F	@ °F	@ °F	@ °F
Time Since Circ.	10 hr.	hr.	hr.	hr.	hr.
Max. Rec. Temp.	158 °F	°F	°F	°F	°F
Equip. Location	7168 Artesia				
Recorded By	Hall Pinkston				
Witnessed By					

Side Door Hole — Side Up Hole

CHANGES IN MUD TYPE OR ADDITIVES SCALE CHANGES

	From	To
Depth		
Type Fluid		
Density		
Visc.		
Fluid Loss		
pH		

LOGGING DATA

	From	To
FDC Depth		3000
Density Matrix Fluid		
Gamma Source		
Casing Thickness		
Liquid Density		

REMARKS

Service No. 771190

RECORDED DATA

Run No.	ONE
Depth Driller	6795
Depth Logger	6795
Bottom Log Interval	6795
Top Log Interval	3000
Casing Driller	9 5/8 @ 301
Casing Logger	320
Bit Size	8 3/4
Type Fluid in Hole	GEL
Density	8.9
Viscosity	39
Fluid Loss	10.5
Source of Sample	Flowline
R_m @ Meas. Temp.	1.82 @ 74 °F
R_mf @ Meas. Temp.	.78 @ 74 °F
R_mc @ Meas. Temp.	1.3 @ 74 °F
R_m @ BHT	.9 @ 158 °F
Time Since Circ.	10 hr.
Max. Rec. Temp.	158 °F
Equip. Location	7168 Artesia
Recorded By	Hall Pinkston
Witnessed By	

RUN NO. CASING DATA

	Bit	From	To
1	12 1/4	Surface	301
2	8 3/4	301	6795
3			

CALIBRATION DATA

	Gamma Ray	FDC-CNS	FDC-Micro Log
Shop Std.	200	150	4.78
Background	20	46	1.00
API Units	180	150	4.78
No.	1	1	1

FDC – Micro Log – ADS: 6.00 / 1.00

All interpretations are opinions based on inferences from electrical or other measurements, and we cannot, and do not guarantee the accuracy and correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our General Terms and Conditions set out in our current Price Schedule.

The well name, location and borehole reference data were furnished by the customer.

POROSITY – PERCENT

CORRECTION GRAMS/CC

BULK DENSITY GRAMS/CC

GAMMA RAY API UNITS

CALIPER HOLE DIAM. IN INCHES

DEPTHS

3000 3100 3200 3300 3400 3500 3600 3700 4300 4400 4500

V.R.N.C.F. MICROGRAPHICS

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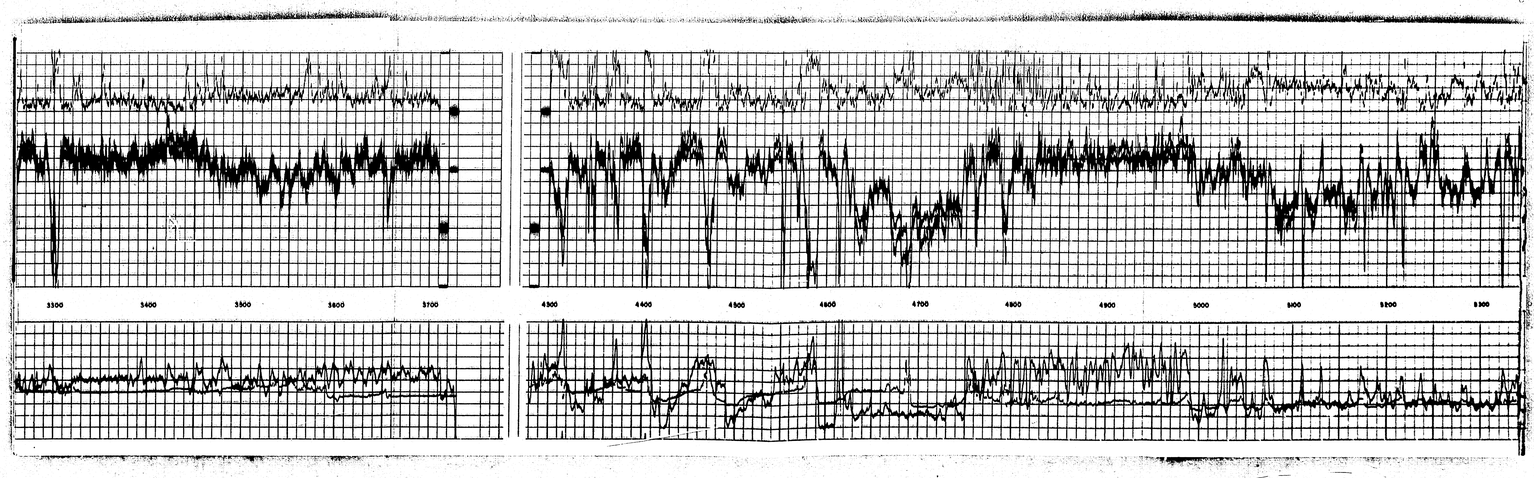

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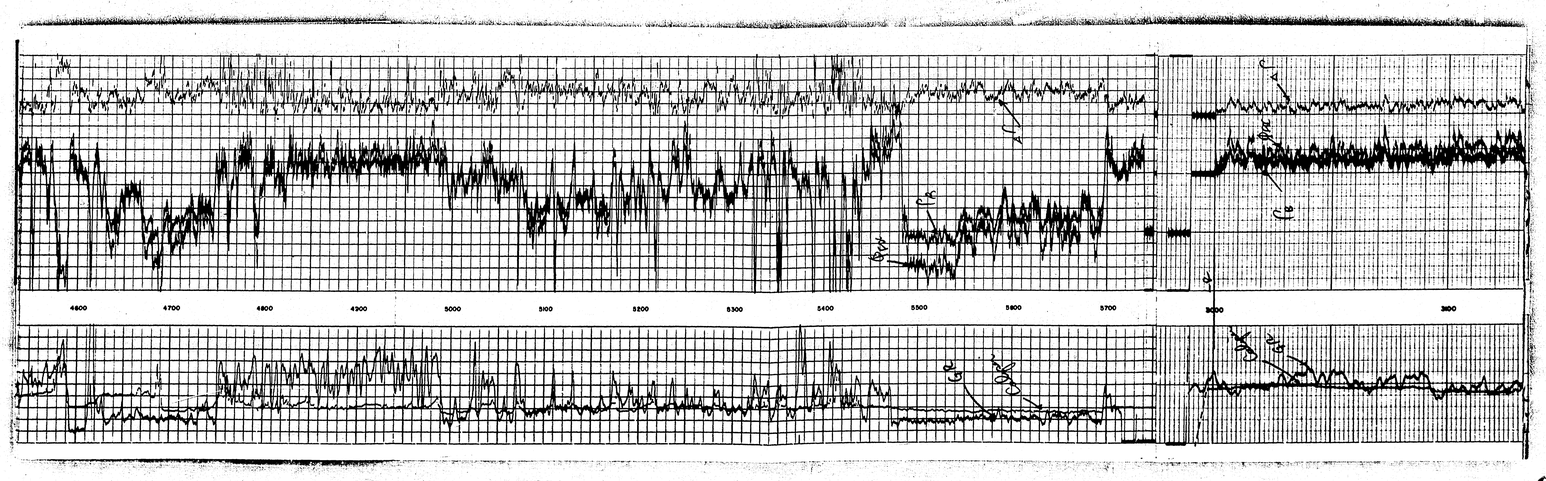

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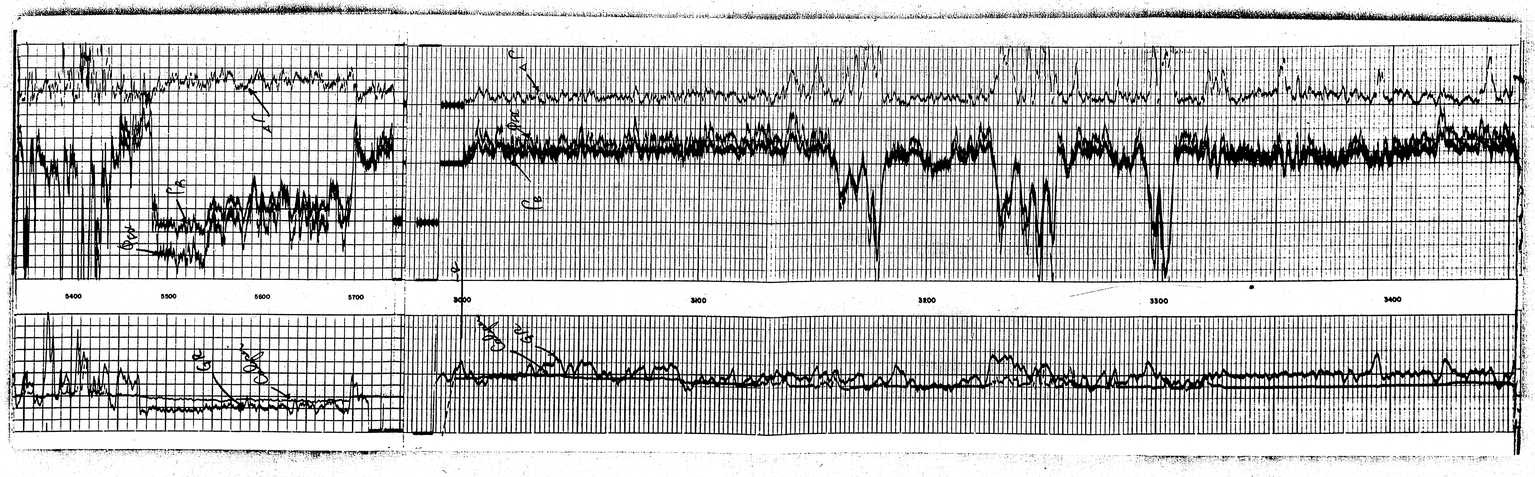

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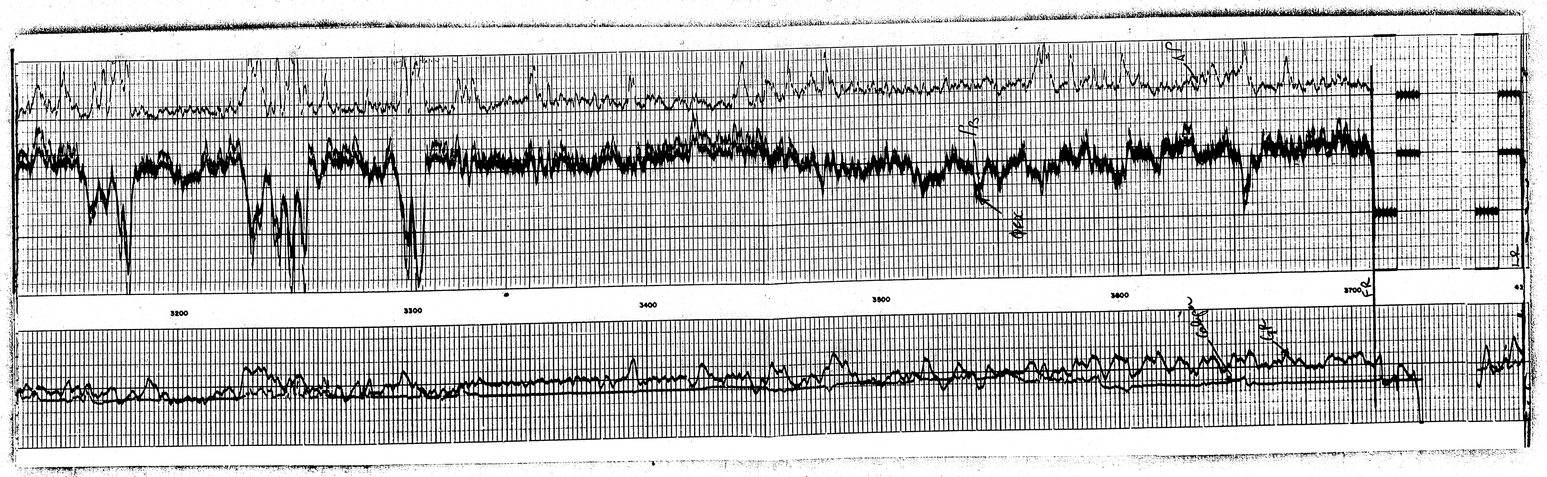

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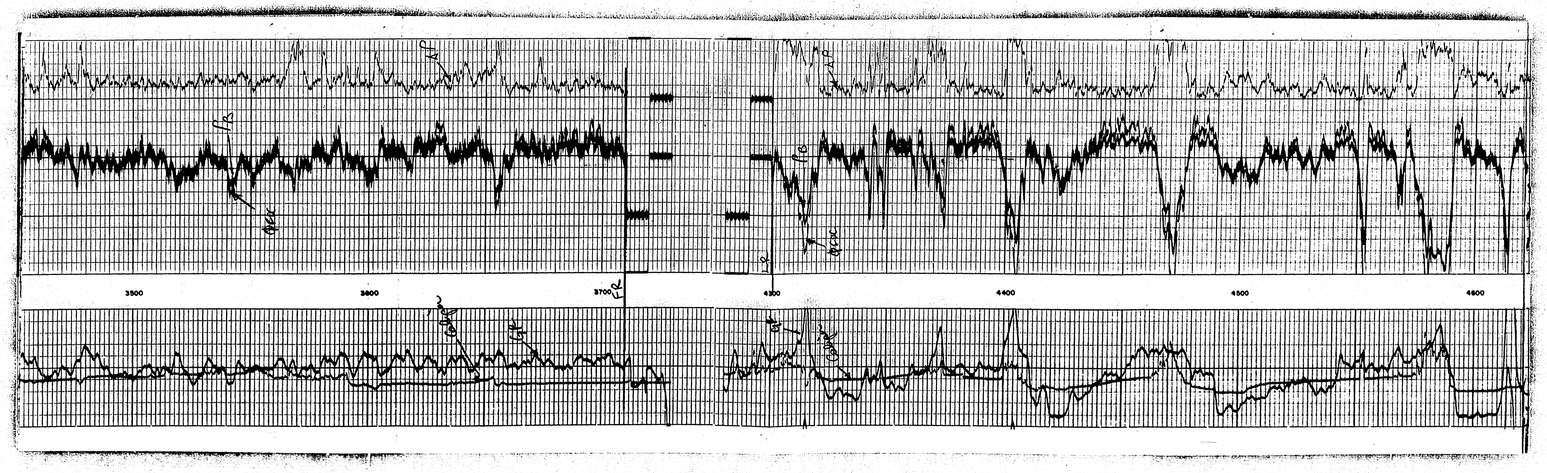

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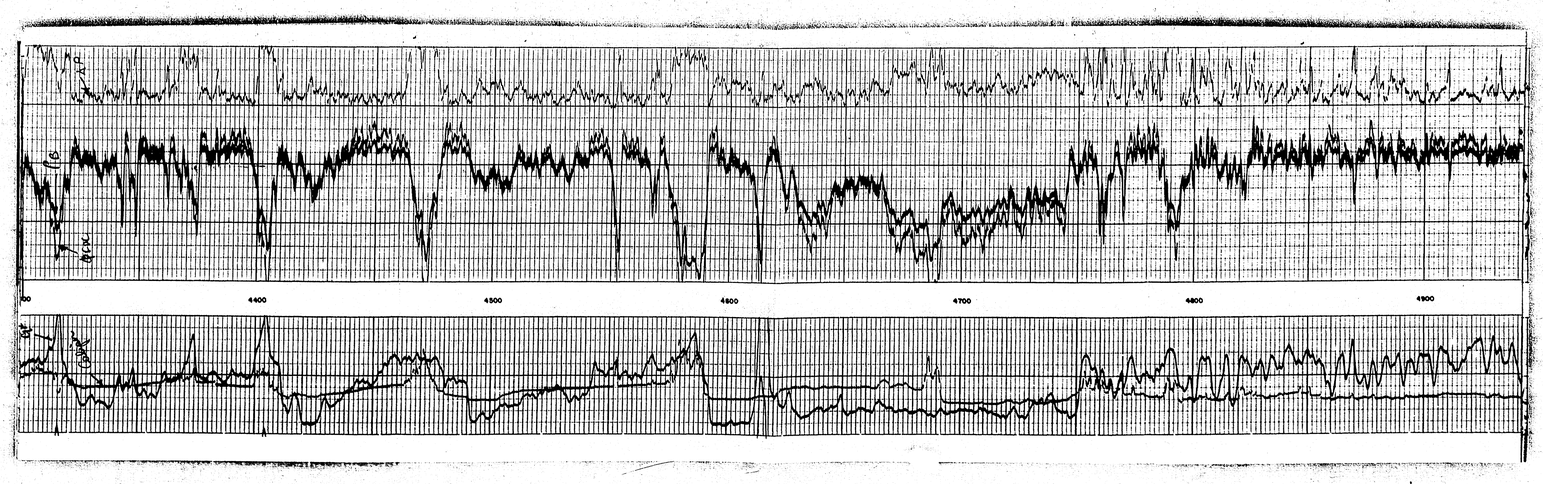

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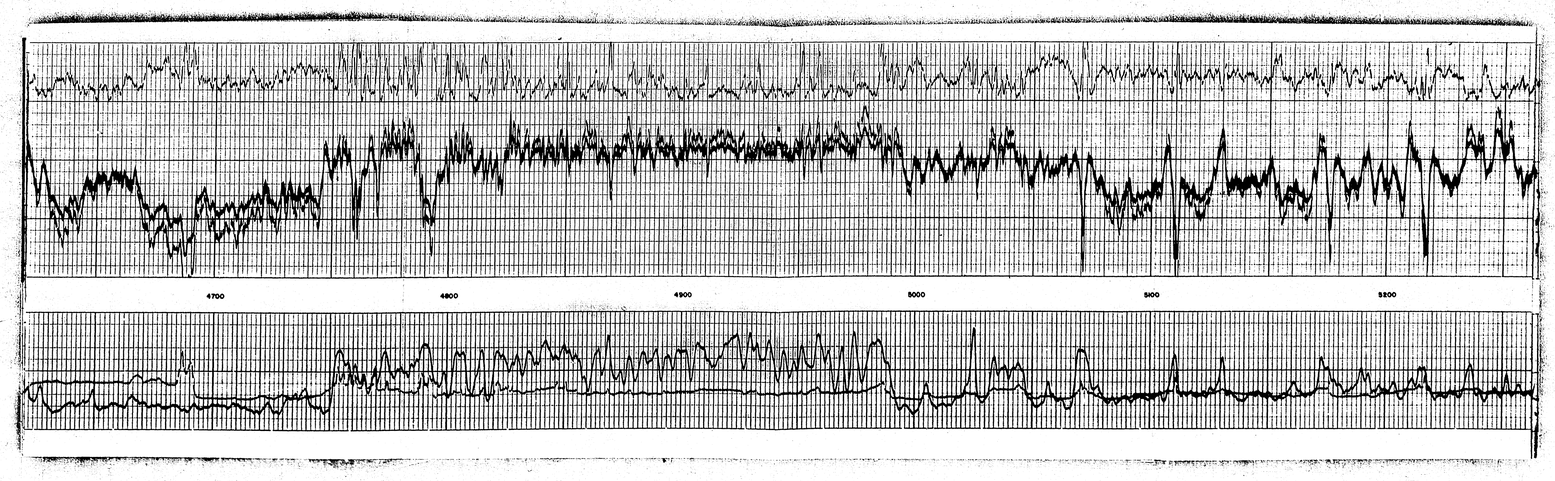

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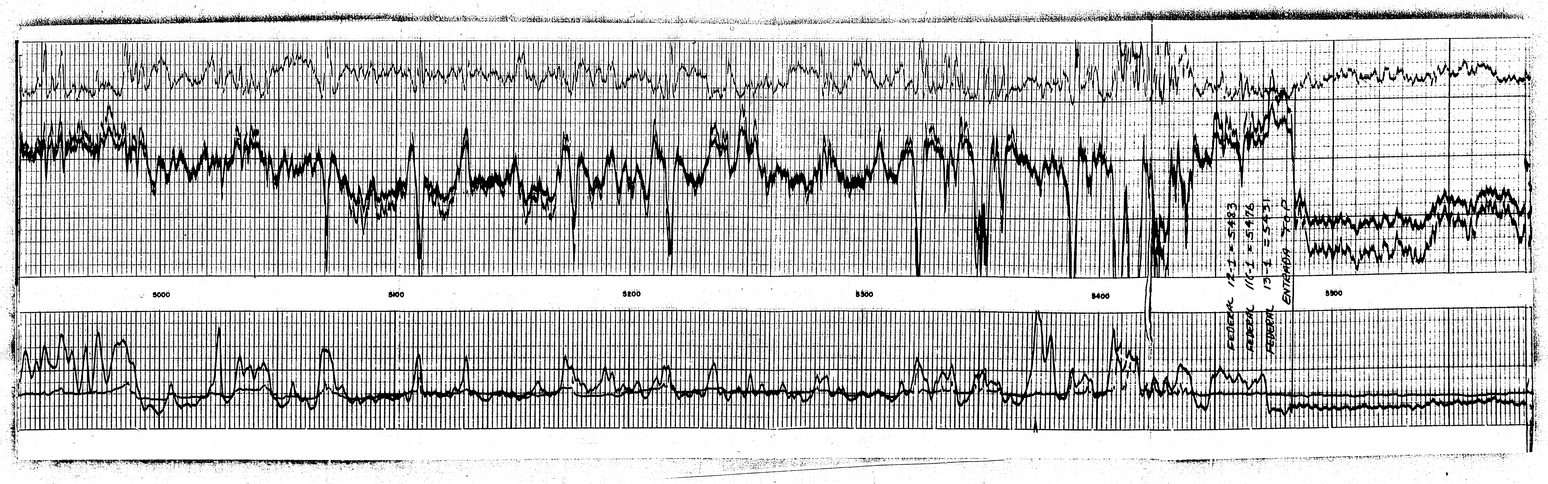

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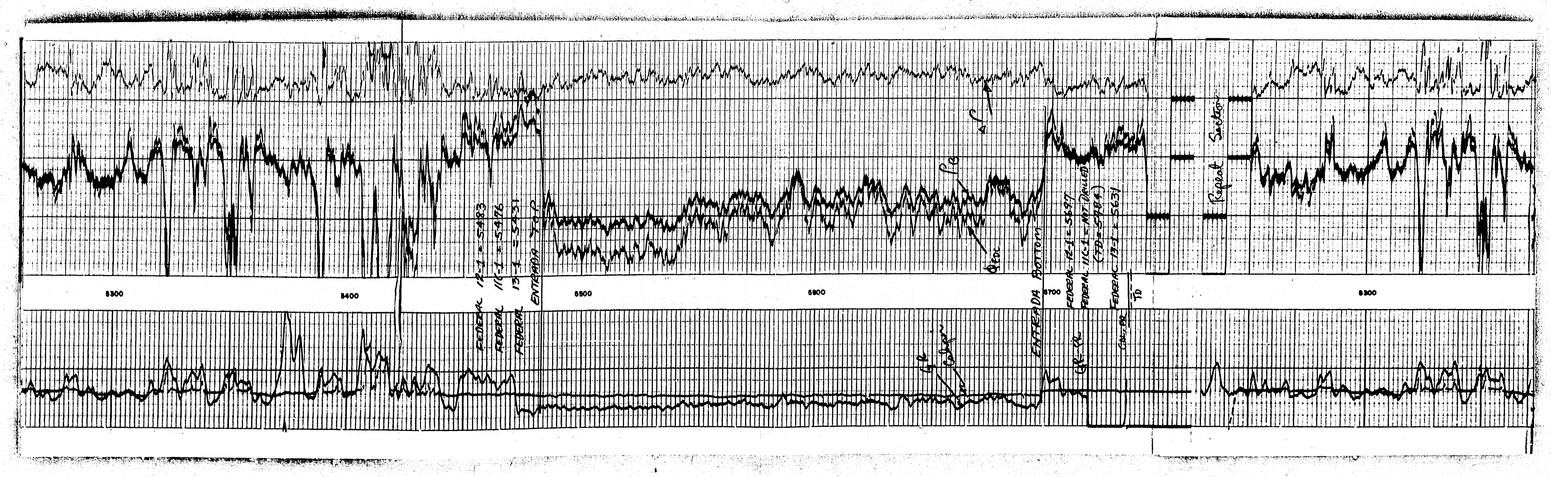

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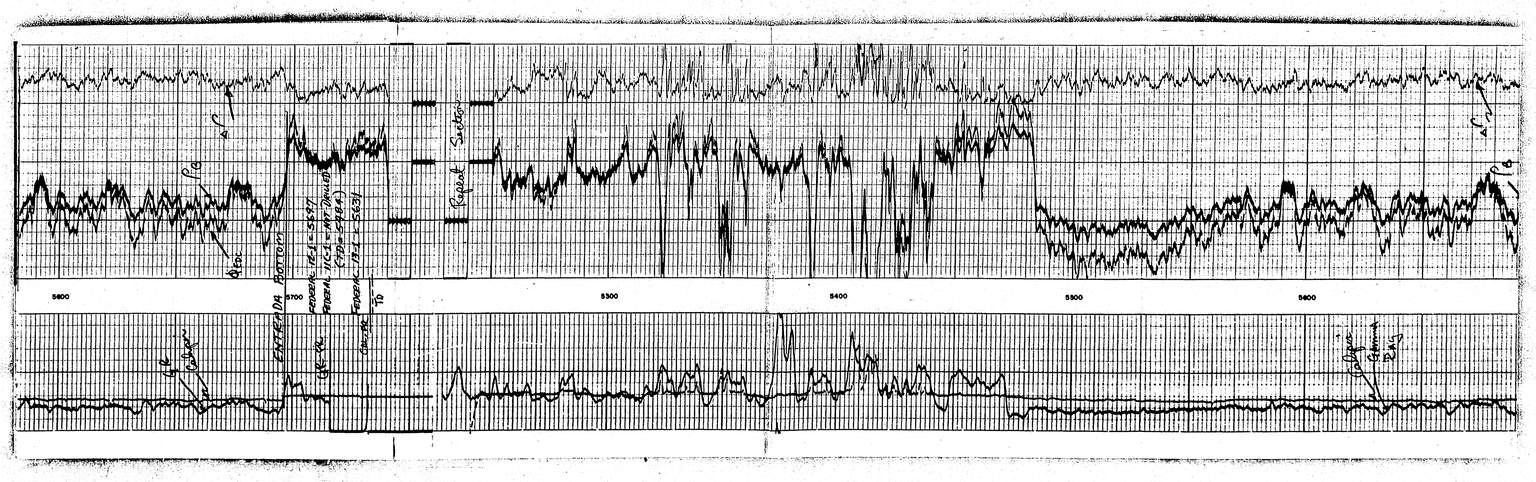
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5600
5700
5300
5400
5500
5600
EXTENSION BOTTOM
Qe
Qb
Qa
Qd
Qc
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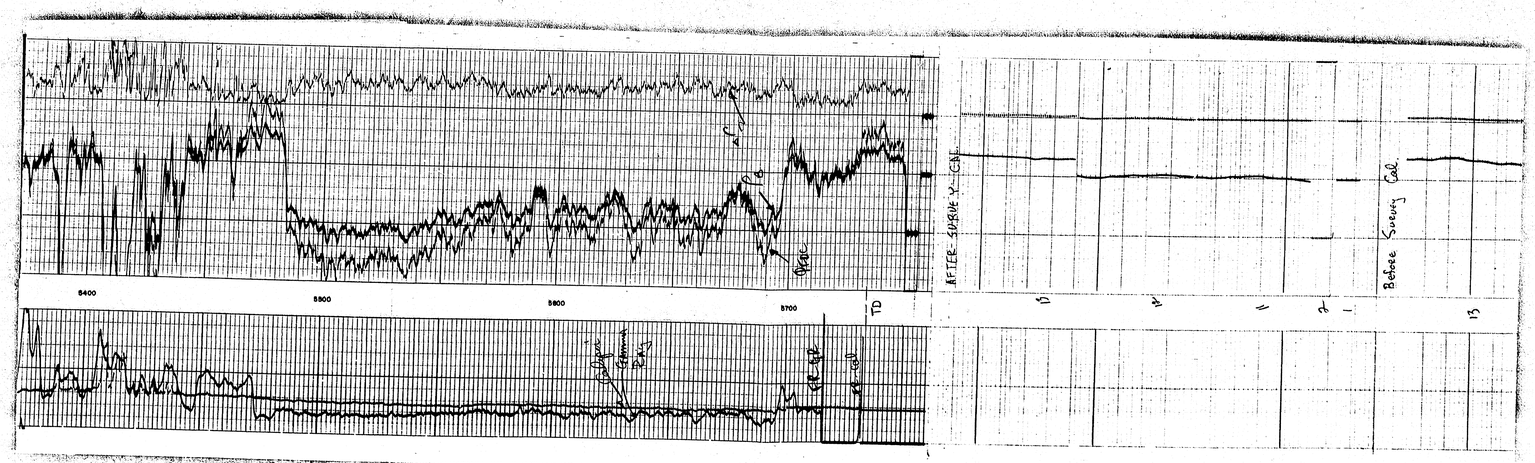
Qb
Qa
Qd
Qc



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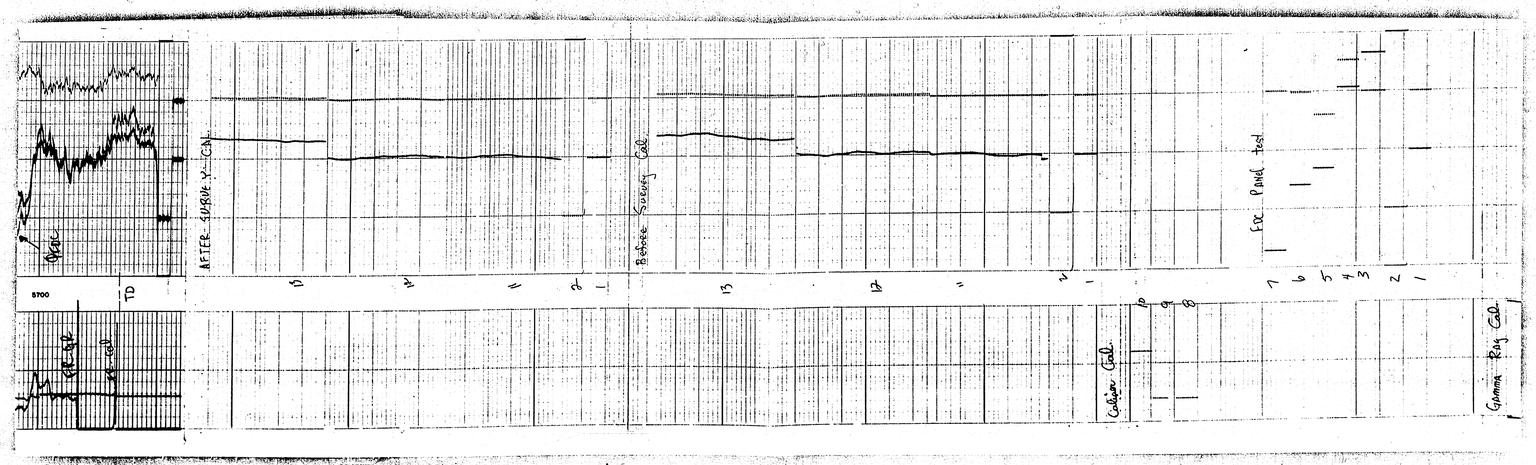

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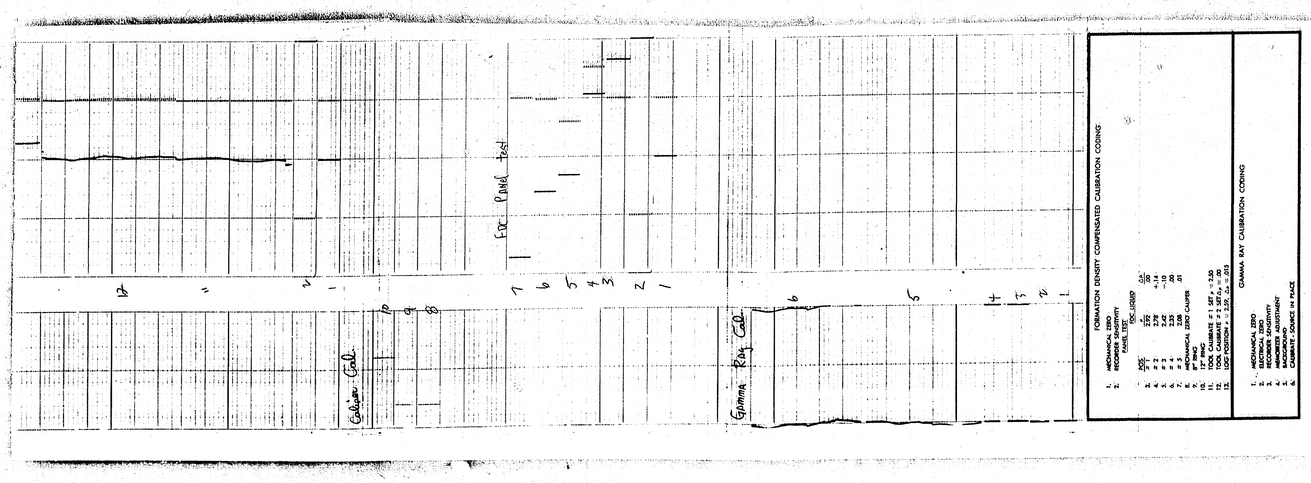

FORMATION DENSITY COMPENSATED CALIBRATION CODING

1. MECHANICAL ZERO
2. ELECTRICAL ZERO
   PANEL TEST

DOC	ρb	Δρb
1.	1.95	.00
2.	2.28	+.14
3.	2.62	−.10
4.	2.33	.00
5.	2.62	.01

6. MECHANICAL ZERO CHAMB
7. 8" RING
8. MECHANICAL ZERO CHAMB
9. TOOL CALIBRATE if 1.95 = 2.50
10. TOOL CALIBRATE if 2.62 = 2.65
11. LOCK POSITION + 2.20 Δρ = .253

GAMMA RAY CALIBRATION CODING

1. MECHANICAL ZERO
2. ELECTRICAL ZERO
   RECORDER SENSITIVITY
3. MICROREC ADJUSTMENT
4. MICROREC ADJUSTMENT
5. CALIBRATE - SOURCE IN PLACE

V.A.R.C.T. MICROGRAPHICS
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CRETACEOUS TOP:

Schlumberger

COMPENSATED FORMATION-DENSITY LOG

Gamma Gamma

COMPANY Filed Exploration

WELL Federal 12 #1

FIELD Wildcat

COUNTY Sandoval STATE N. Mex.

Location: 460 FSL 330 FWL

Sec. 12 Twp. 19N Rge. 4W

API Serial No.

Other Services: DIL

Permanent Datum: Ground Level Elev.: 6678

Log Measured from: Kelly Bush 13 ft. Above Perm. Datum

Drilling Measured from: Kelly Bush

Elev.: K.B. 6691 D.F. 6690 G.L. 6678

Date	11-10-76						
Run No.	ONE						
Depth-Driller	6755						
Depth-Logger	6711						
Btm. Log Interval	6334						
Top Log Interval	3000						
Casing-Driller	9 5/8 @ 327	@	@	@			
Casing-Logger	327						
Bit Size	8 1/4	6 1/2					
Type Fluid in Hole	GEL						
Fluid Level	FULL						
Dens. / Visc.	9.0 / 39						
pH / Fluid Loss	9.5 / 6.2	cc		cc		cc	
Source of Sample	FLOWLINE						
R_m @ Meas. Temp.	1.46 @ 72 °F	@ °F	@ °F	@ °F			
R_{mf} @ Meas. Temp.	.78 @ 72 °F	@ °F	@ °F	@ °F			
R_{mc} @ Meas. Temp.	@ °F	@ °F	@ °F	@ °F			
Source: R_{mf} / R_{mc}	M / C						
R_m @ BHT	1.0 @ 158°F						
Time Since Circ.	12 hrs.						
Max. Rec. Temp.	158°F						
Equip. Location	5402 FARM						
Recorded By	Pickett						
Witnessed By	Davis						

The well name, location and borehole record are furnished by the customer.

CHANGES IN MUD TYPE OR ADDITIONAL SAMPLES

SCALE CHANGES

Run	Bit	From	To
ONE	8 1/4	327	3000

CASING DATA

Run	Casing	Bit Size	Wgt.	Grade	From	To
ONE	9 5/8	8 1/4	32.3	H-40	SURF.	327

REMARKS

TYPE LOG

MATRIX DATA

Run	Matrix	Δt	ρ_{ma}
ONE	LIME	47.5	2.71

FLUID CORRECTION DATA

Run	Fluid	Δt_f	ρ_f
ONE	WATER	189	1.00

CALIBRATION DATA

Run	Tool	Before Log: Det.	Before Log: Ref.	After Log: Det.	After Log: Ref.
ONE	3700	1.70	1.70	1.70	1.70
	3700	1.70	1.70	1.70	1.70

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretation, and we shall not be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our General Terms and Conditions set out in our current Price Schedule.

DENSITY - PERCENT

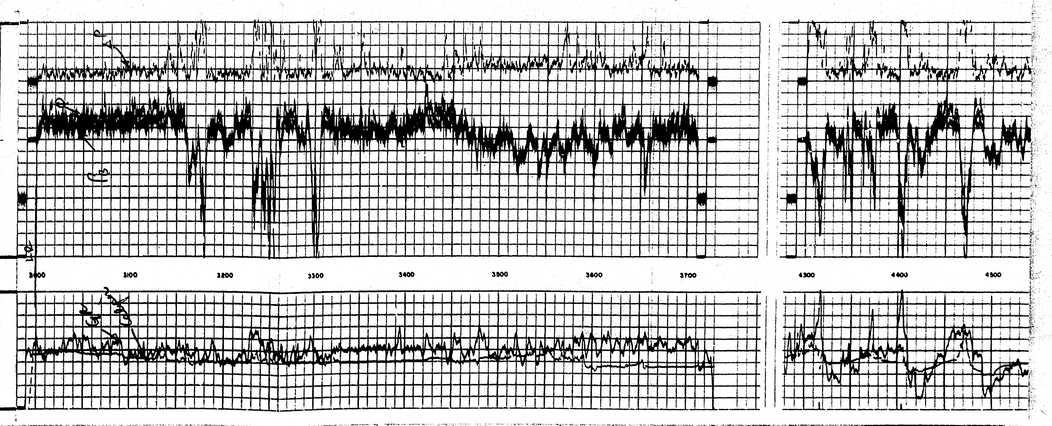
CORRECTION (DENSITY)

BULK DENSITY (GRAMS/CC)

DEPTHS

CALIPER (HOLE DIAM. IN INCHES)

GAMMA RAY (API UNITS)



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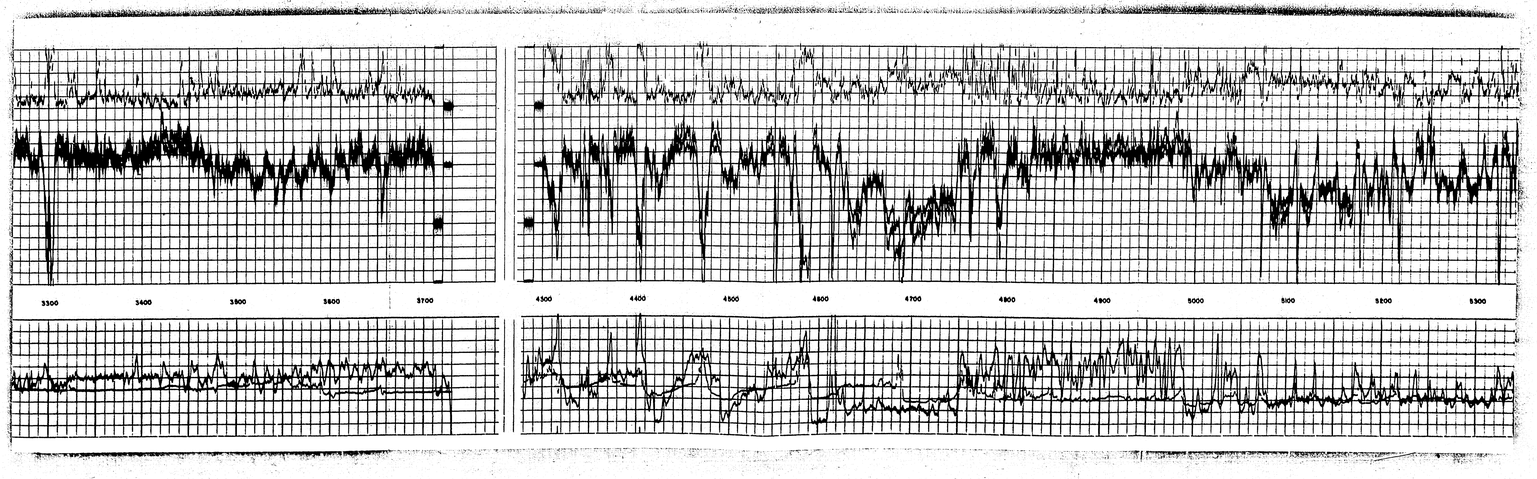

U.S.N.C.F. MICROFRAMES
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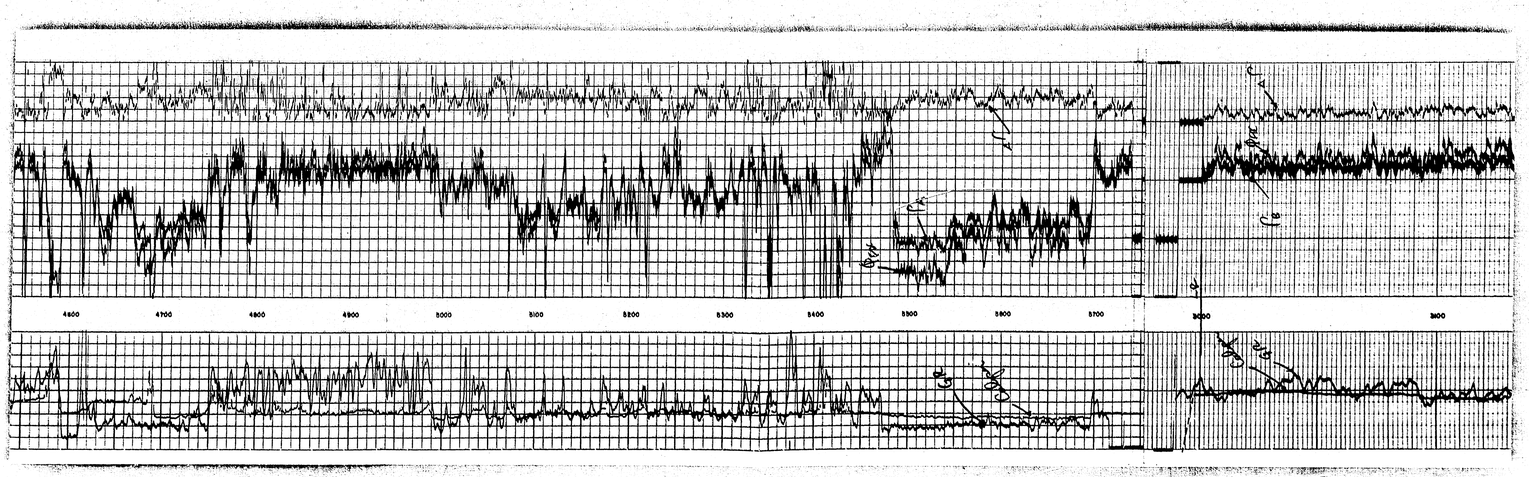

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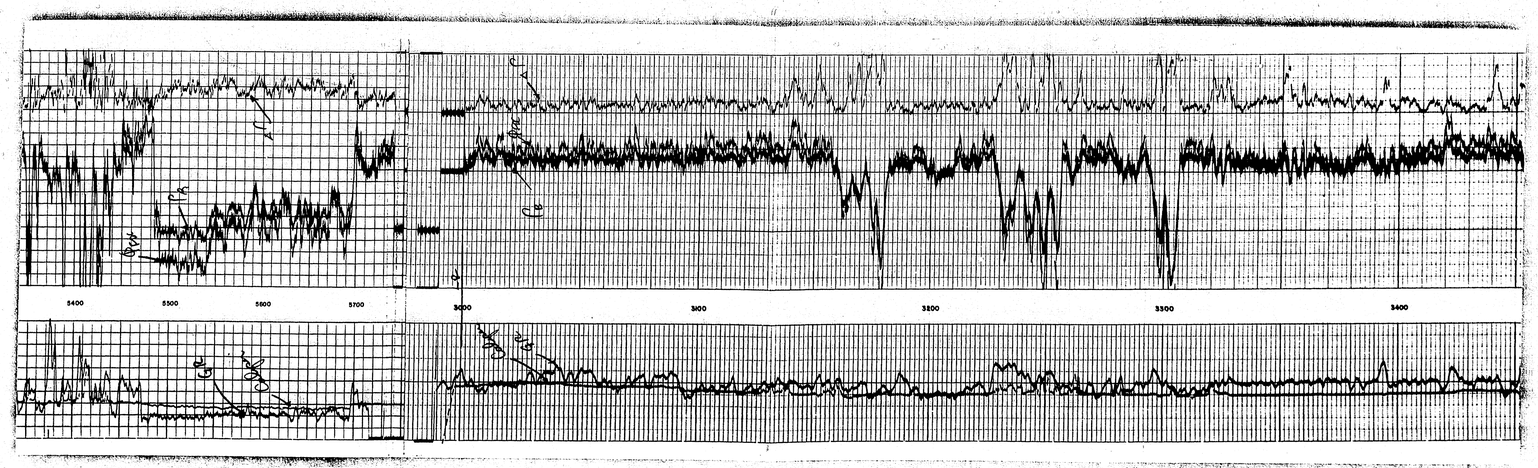

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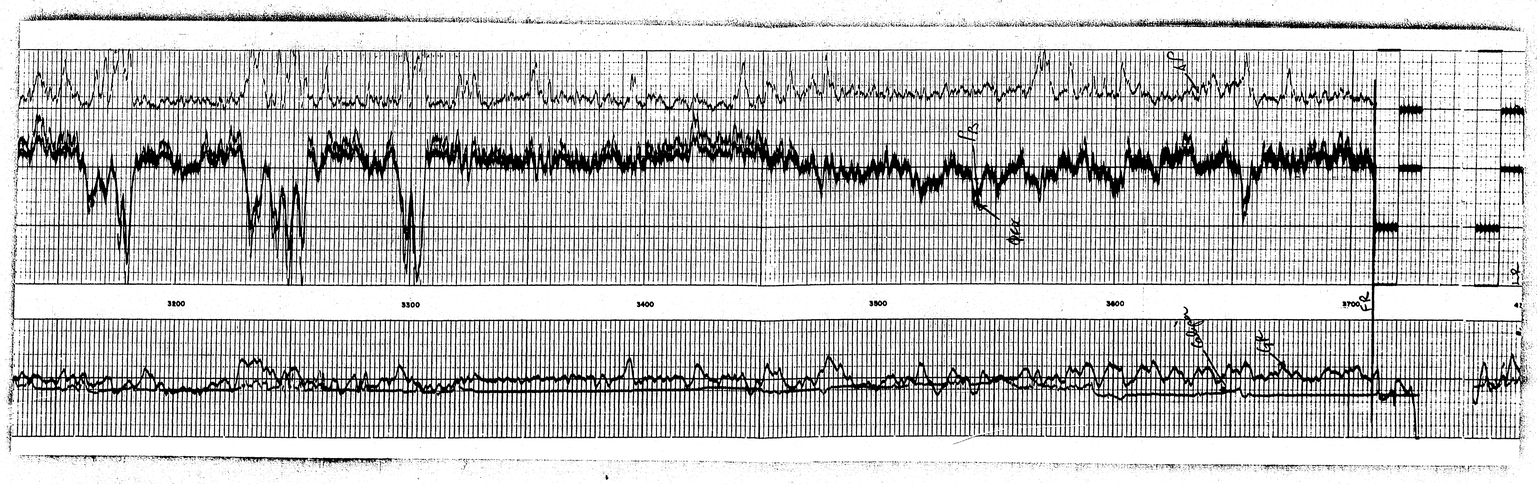

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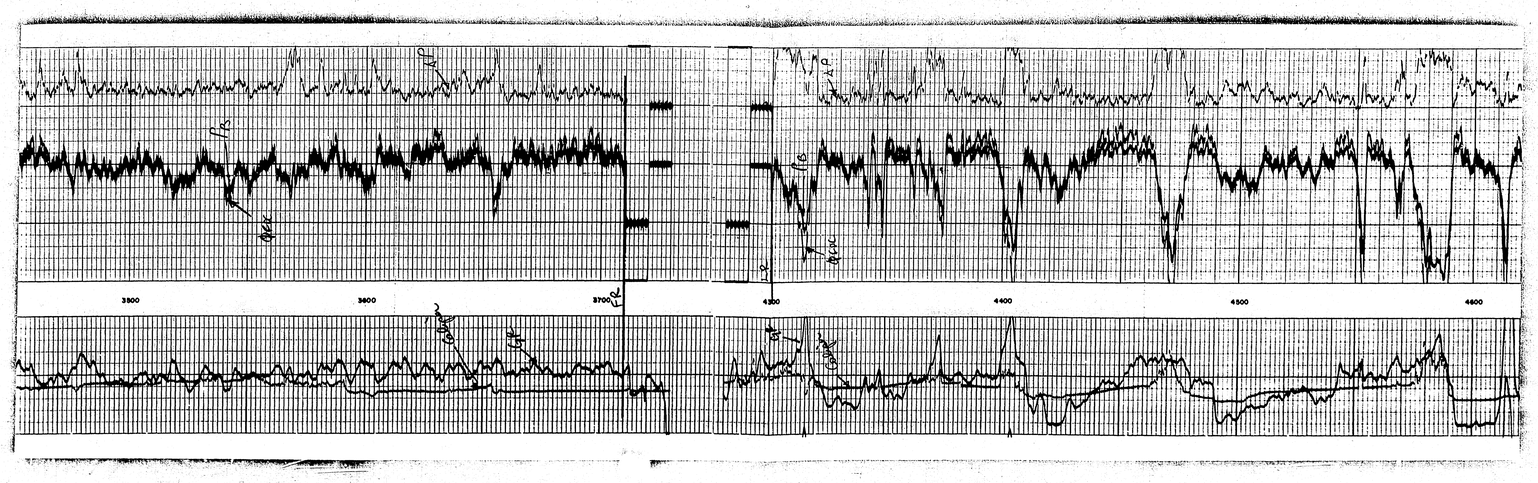
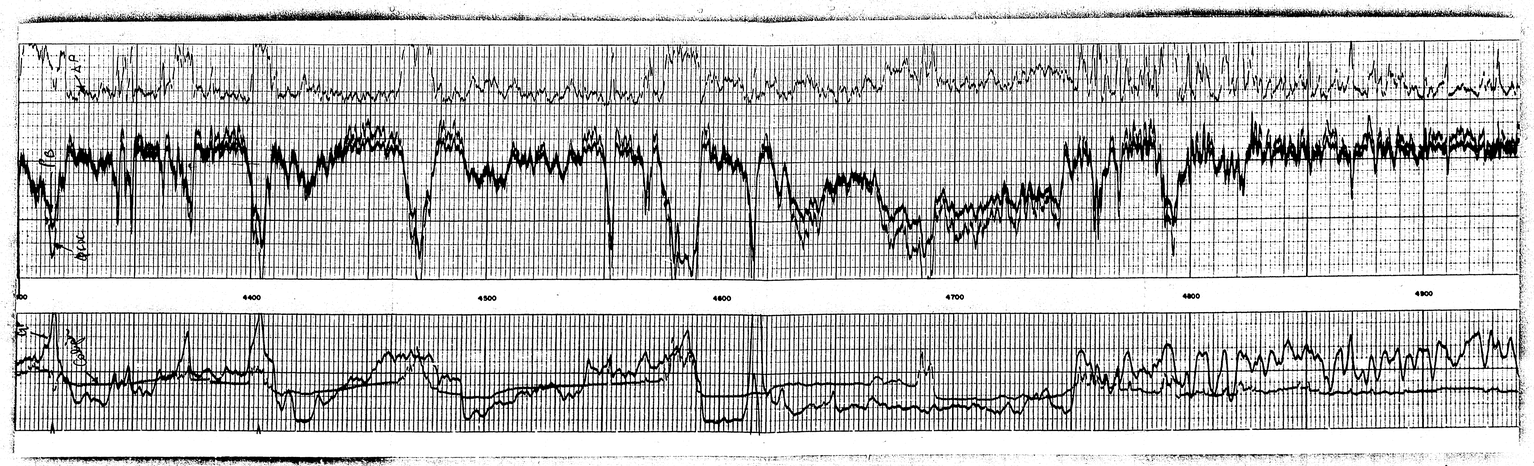


U.S.N.C.F. MICROGRAPHICS
BEST AVAILABLE COPY



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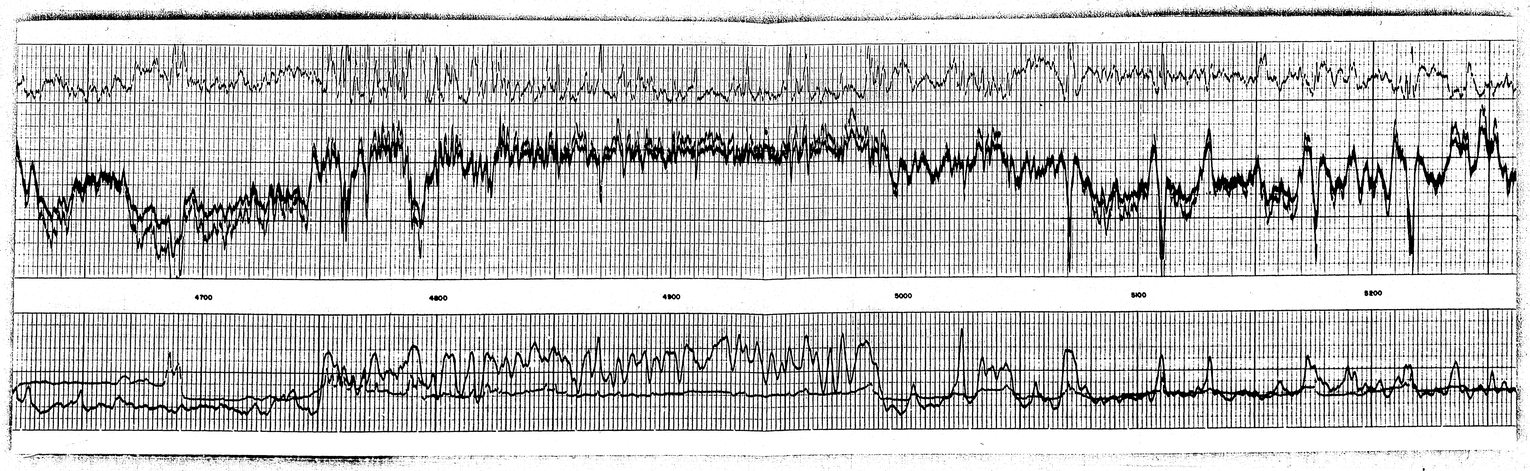

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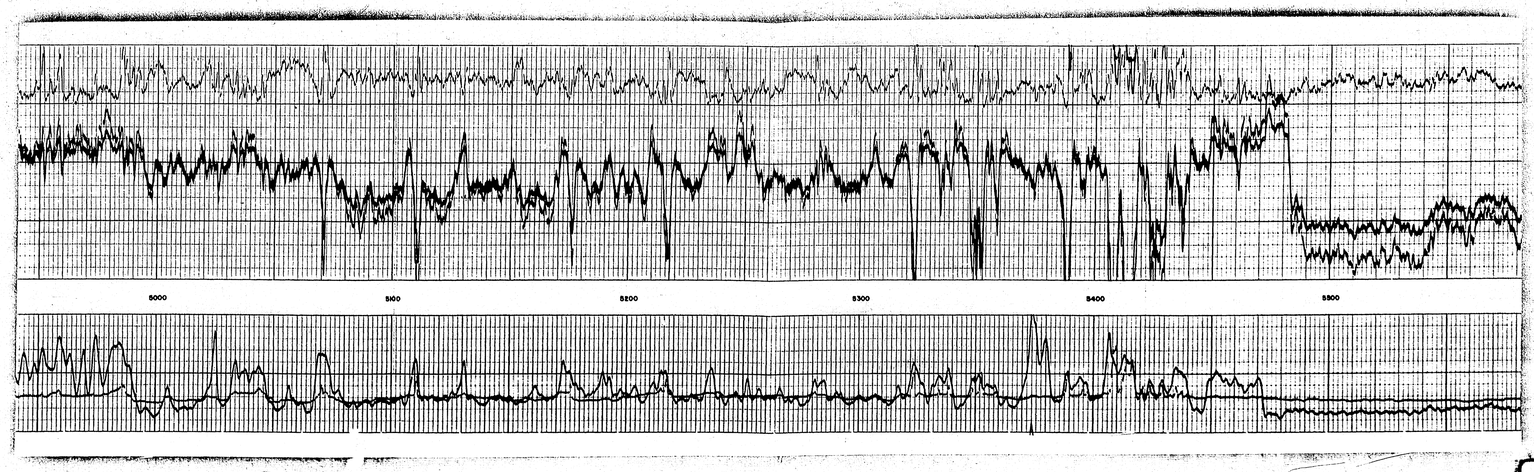

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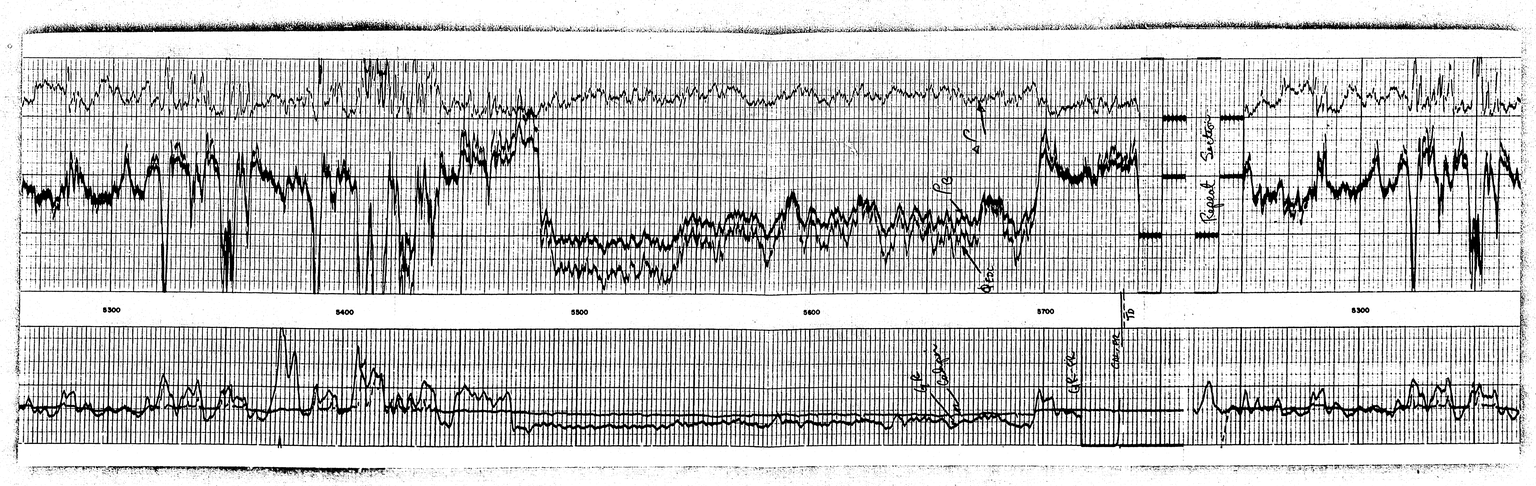

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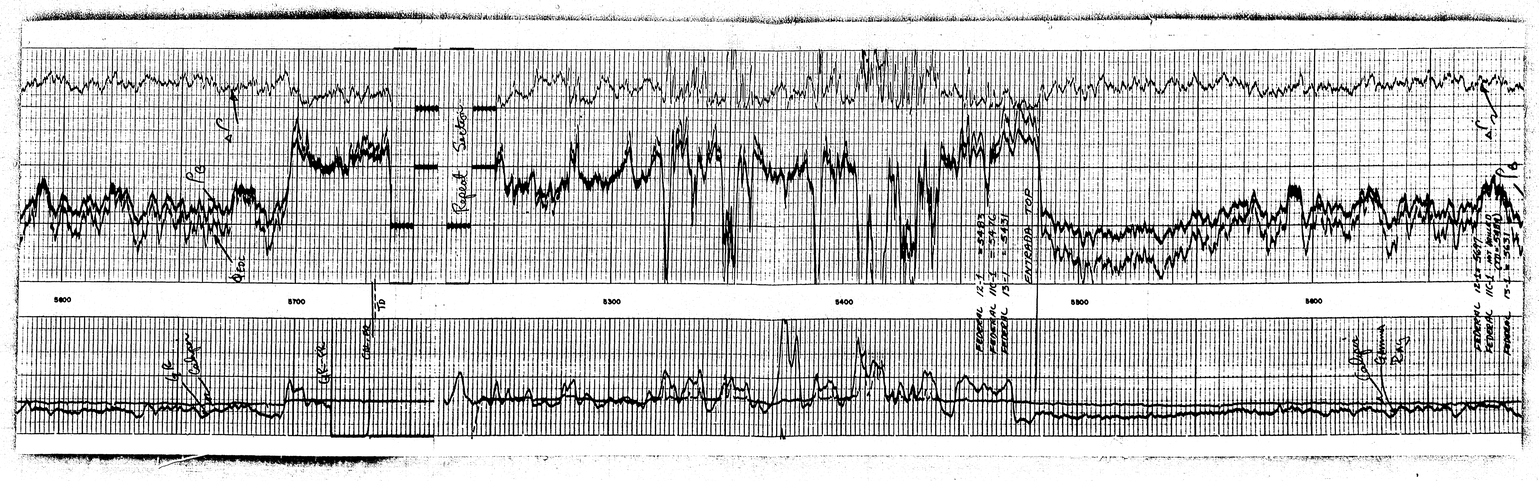

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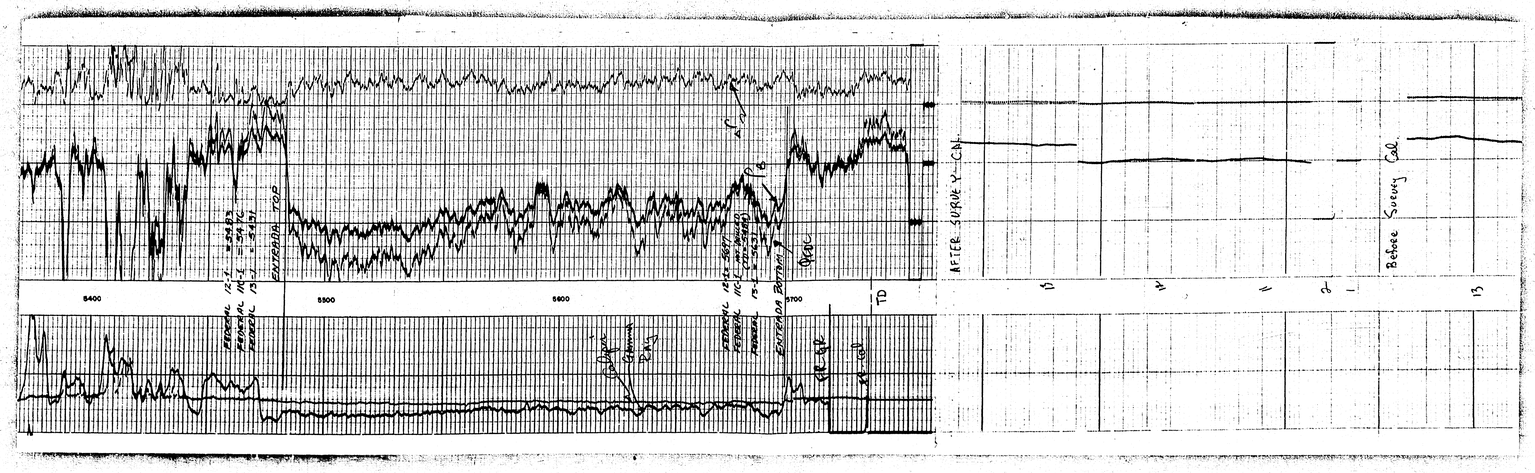

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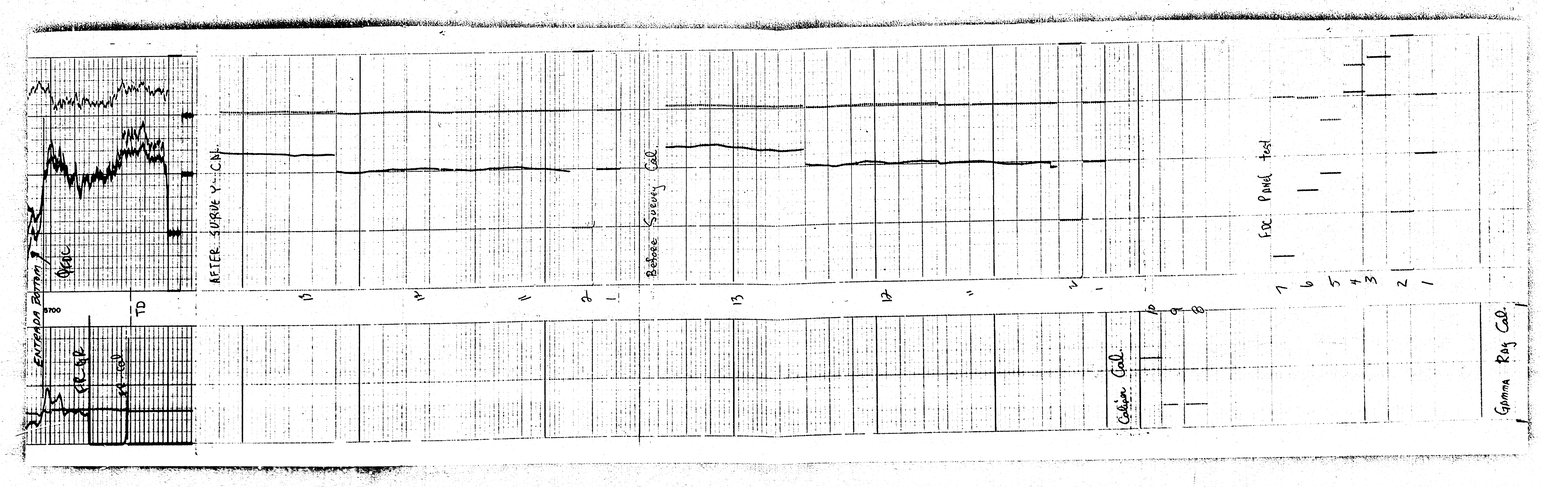

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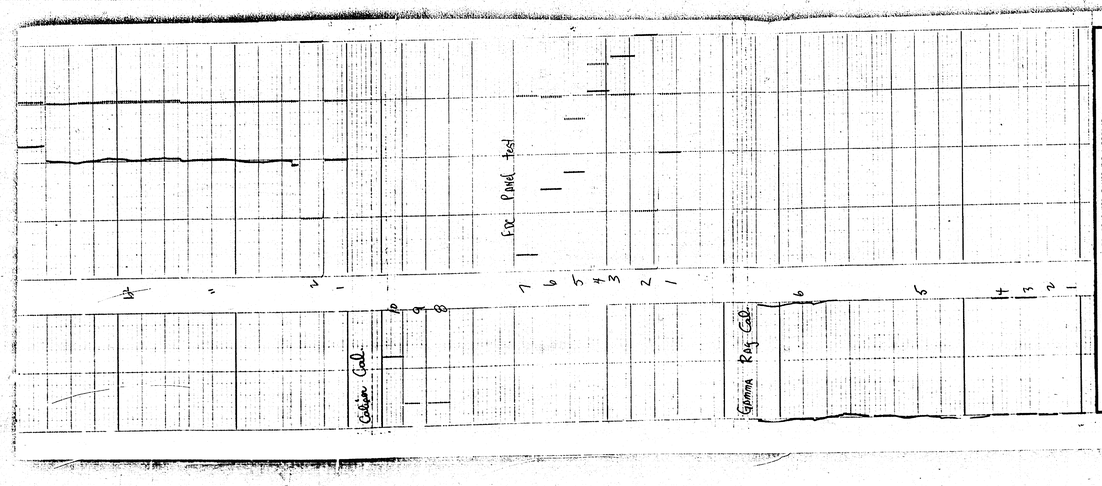

FORMATION DENSITY COMPENSATED CALIBRATION CODING

1. MECHANICAL ZERO
2. RECORDER SENSITIVITY
   TOOL NO. 10000

	DEN	COR
3.	# 1	.05
4.	# 2	.10
5.	# 3	.20
6.	# 4	.30
7.	# 5	.40

8. MECHANICAL ZERO CALIPER
9. 8" RING
10. 12" RING
11. TOOL CALIBRATE # 1 SET ρ_b = 1.95
12. TOOL CALIBRATE # 2 SET ρ_b = 2.30
13. LOG POSITION # = 2.95, $\Delta\rho$ = .015

GAMMA RAY CALIBRATION CODING

1. MECHANICAL ZERO
2. ELECTRICAL ZERO
3. RECORDER SENSITIVITY
4. MAGNETIC SUSCEPTIBILITY
5. BACKGROUND
6. GAMMA RAY SOURCE IN PLACE

V.R.M.C.F. MICROGRAPHICS
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