



State of New Mexico
ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT
Santa Fe, New Mexico 87505



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

MATTHEW BACA
DEPUTY SECRETARY

February 20, 1992

Geodyne Operating Company
320 South Boston-The Mezzanine
Tulsa, Oklahoma 74103-3708

Attention: Judy McKnight


Re: PFI Amoco "19" SWD No. 2

Dear Ms. McKnight:

I have recently received from Mr. Richard Stamets a copy of the cement bond log run on the subject well. We have evaluated the log and have determined that more information will be necessary in order to adequately demonstrate that the injected fluid will be confined to the injection interval. We therefore request that an injection tracer survey be conducted on the well subsequent to the commencement of injection operations. Please give advanced notice of the date and time such survey will be conducted to the supervisor of the Division's Artesia district office in order that it may be witnessed. In addition, please submit a copy of the survey results to both the Santa Fe and Artesia offices of the Division.

If you should have any questions, please contact myself at (505) 827-5800.

Sincerely,


David Catanach
Engineer

xc: Case File-10433 ✓
OCD-Artesia

VILLAGRA BUILDING - 408 Galisteo

Forestry and Resources Conservation Division
P.O. Box 1948 87504-1948
827-5830

Park and Recreation Division
P.O. Box 1147 87504-1147
827-7465

2040 South Pacheco

Office of the Secretary
827-5950

Administrative Services
827-5925

Energy Conservation & Management
827-5900

Mining and Minerals
827-5970

LAND OFFICE BUILDING - 310 Old Santa Fe Trail

Oil Conservation Division
P.O. Box 2088 87504-2088
827-5800

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on re-
verse side)

Budget Bureau No. 10
Expires August 31, 19
5. LEASE DESIGNATION AND NO
NM-34246
6. IF INDIAN, ALLOTTEE OR TR
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
PFI Amoco 19 Fe
9. WELL NO.
2
10. FIELD AND POOL, OR WIL
Wildcat *Delau*
11. SEC. T., R., M., OR S.E. &
SUBST OR AREA
Sec 19, T22S, R
12. COUNTY OR PARISH 13.
Eddy Ne

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐
2. NAME OF OPERATOR
Primary Fuels, Inc. *✓* JAN 11 '88
3. ADDRESS OF OPERATOR
PO Box 569 Houston TX 77001 O. C. D.
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface
1687' FSL & 2041' FWL of Section 19
14. PERMIT NO. 15. ELEVATIONS (Show whether DP, ST, GR, etc.)
3377.6 GL

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:
TEST WATER SHUT-OFF ☐ PULL OR ALTER CASING ☐
FRACTURE TREAT ☐ MULTIPLE COMPLETE ☐
SHOOT OR ACIDIZE ☐ ABANDON* ☐
REPAIR WELL ☐ CHANGE PLANE ☐
(Other) ☐
SUBSEQUENT REPORT OF:
WATER SHUT-OFF ☐ REPAIRING WELL ☐
FRACTURE TREATMENT ☐ ALTERING CASING ☐
SHOOTING OR ACIDIZING ☐ ABANDONMENT* ☐
(Other) Run & cement casing
(Note: Report results of multiple completion on 1
Completion or Recompletion Report and Log form.)
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of
proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and
nent to this work.)*

12/22/87 Ran 2 jts 5-1/2" 20# P-110 LT&C + 105 jts 5-1/2" 15.50# J&K-55 ST&C
(4606.42'). Land @ 4600'. FC @ 4517'.
RU Halliburton. Pump 10 BFW + 20 sx GS-35 Poz w/Premium Plus (13.8
+ 500 gal Flochek 21 + 20 sx GS-35 Poz w/Premium Plus + 500 gal
Flochek 21 + 610 sx GS-35 Poz w/Premium Plus + 2% gel + .4% Halad 4
+ .2% CFR3 + 5#/sk salt @ 14.1 ppg. Displ w/107.5 BFW. Bump plug
w/1500 PSI. Inc press to 2500 PSI & set ECP. Float held. CIP
1516 hrs MST. Full returns. ND BOP's. Set slips w/75000 lbs.
Cut 5-1/2, NU tbg head. Test to 3000 PSI.

RELEASED RIG 2300 HRS MST 12/22/87. WOCU.

NOTIFIED BLM CARLSBAD - NO WITNESS

18. I hereby certify that the foregoing is true and correct

SIGNED *Stan E. Patten* TITLE Mgr-Drilg & Production DATE 12/23

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ ACCEPTED FOR RECORD
CONDITIONS OF APPROVAL, IF ANY: _____ DATE _____

JAN 5 1988

*See Instructions on Reverse Side

SJS
CARLSBAD, N.M.



ACOUSTIC CEMENT BOND LOG

[illegible]

FOLD HERE

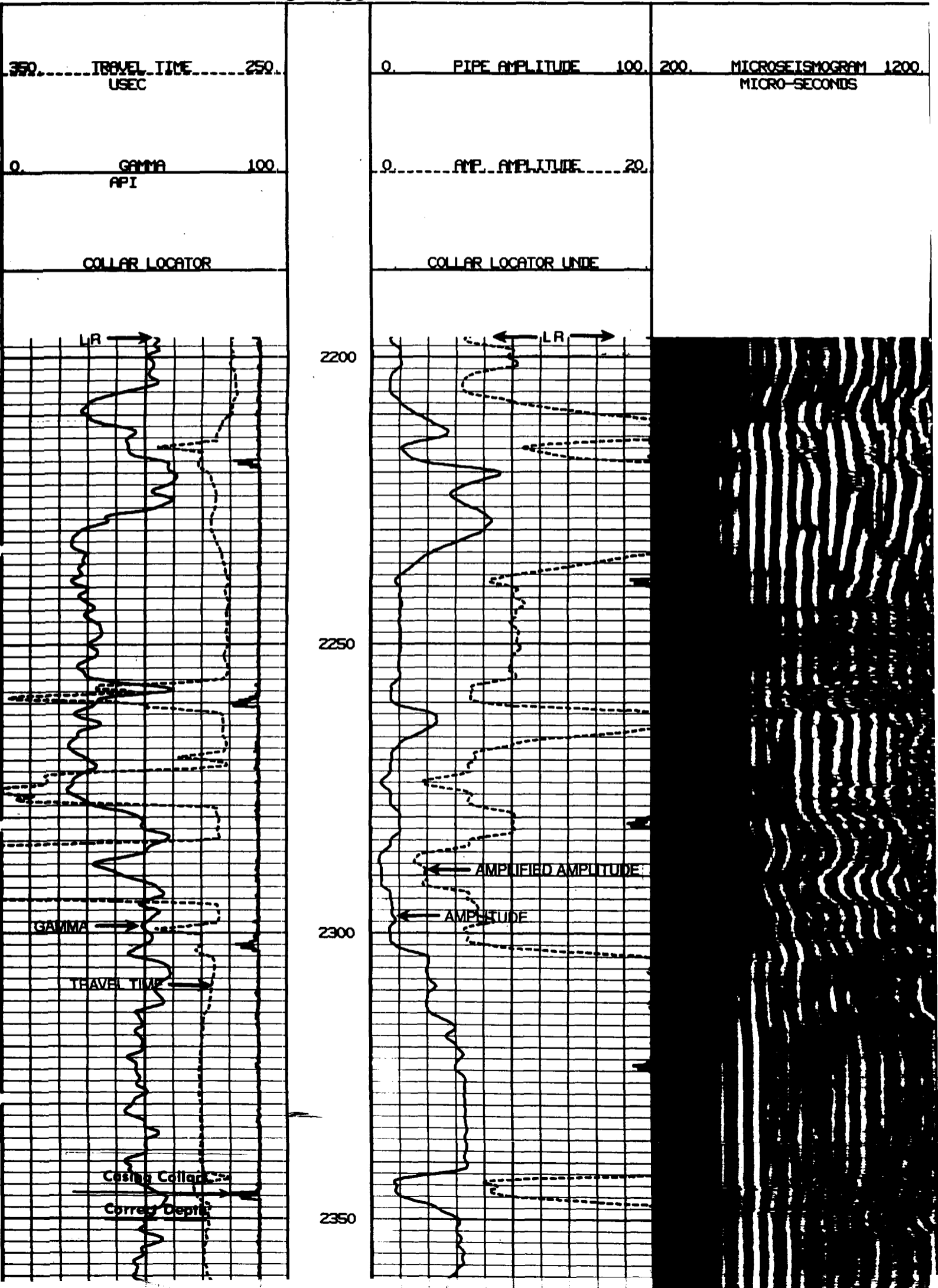
SERVICE TICKET NO.: 44547				API SERIAL NO.: NA				PGM VERSION: V1.00 09/06/85			
THE WELL NAME, LOCATION, CEMENTING DATA AND BOREHOLE DESCRIPTION FURNISHED BY CLIENT											
CEMENTING DATA											
CEMENT PUMPED:		NA		e				/ JOINT FROM		TO	
PRECEDING FLUID		VOLUME		BSL		CENTRALIZERS		/ JOINT FROM		TO	
RETURNING		FULL		PARTIAL		NONE		/ JOINT FROM		TO	
PIPE ROTATED/RECIPITATED:		DURING PUMPING		YES		NO					
		AFTER PLUG DOWN		YES		NO		/ JOINT FROM		TO	
PLUG PUMPED				YES		NO		CENTRALIZERS		/ JOINT FROM TO	
PLUG LANDING PRESSURE:								/ JOINT FROM		TO	
PRESSURE HELD:				HRS AFTER PUMPING							
EQUIPMENT DATA											
GAMMA				NEUTRON				ACOUSTIC			
RUN NO.		ONE		RUN NO.				RUN NO.		ONE	
SERIAL NO.		29173		SERIAL NO.				SERIAL NO.		29173	
MODEL NO.		307		MODEL NO.				MODEL NO.		307	
DIAMETER		3 3/8		DIAMETER				NO. OF CENT		2 IN-LINE	
DETECTOR MODEL NO.		102		LOG TYPE				SPACING		4 FT.	
TYPE		SCINT.		SOURCE TYPE							
LENGTH		4 IN.		SERIAL NO.							
DISTANCE TO SOURCE		NA		STRENGTH							
LOGGING DATA											
GENERAL					GAMMA		NEUTRON		ACOUSTIC		
RUN		DEPTH		WELL HEAD		SPEED		SCALE		SCALE	
NO.		FROM TO		PRESSURE		FT./MIN.		L R		L R	
-1-		4559 2200		0		REC		0 100		0 100	
REMARKS: LOG IS 14 FEET HIGH TO OPEN HOLE ACOUSTIC LOG.											
LOG WAS MEASURED FROM G.L. AND WAS NOT RESET TO OPEN HOLE LOG.											
AT THE REQUEST OF THE COMPANY REPRESENTATIVE.											

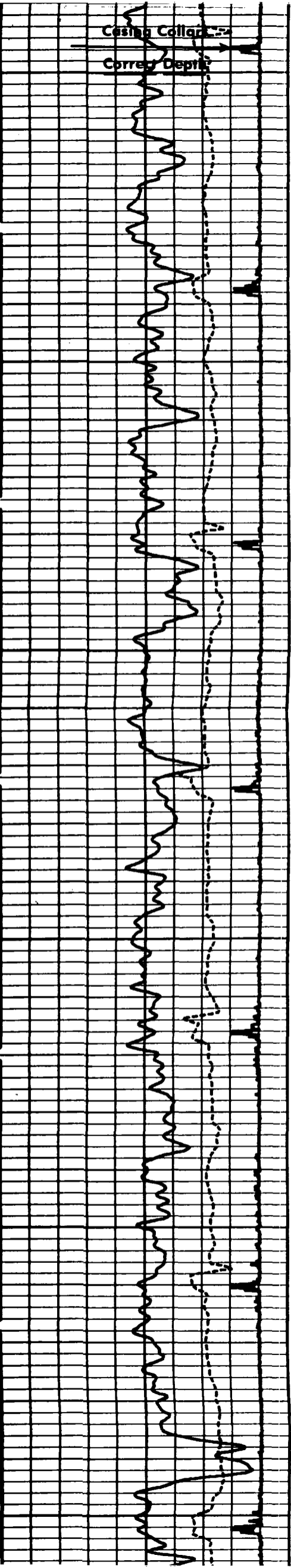
MELEX DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS, OR RECOMMENDATIONS WHICH MAY BE GIVEN BY MELEX PERSONNEL OR WHICH MAY APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, OR CONVERSIONS, OR RECOMMENDATIONS AGREES THAT MELEX IS NOT RESPONSIBLE, EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFULL MISCONDUCT FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.

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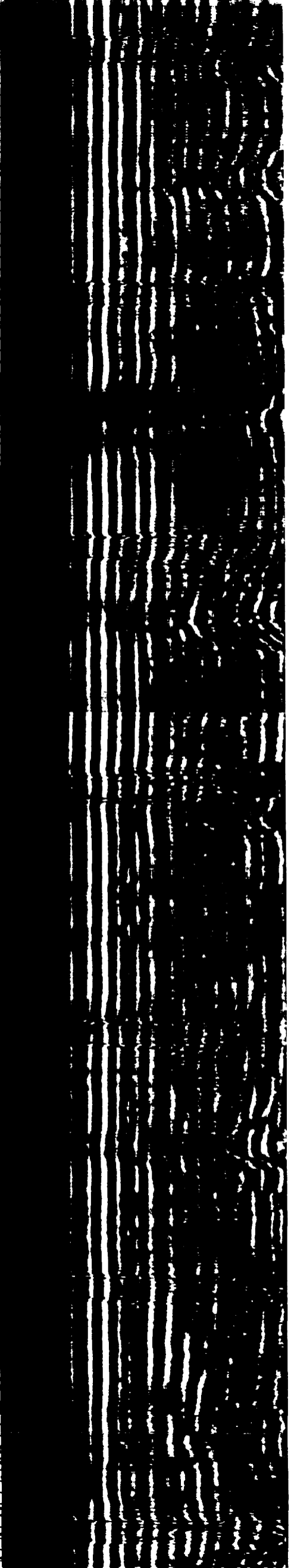
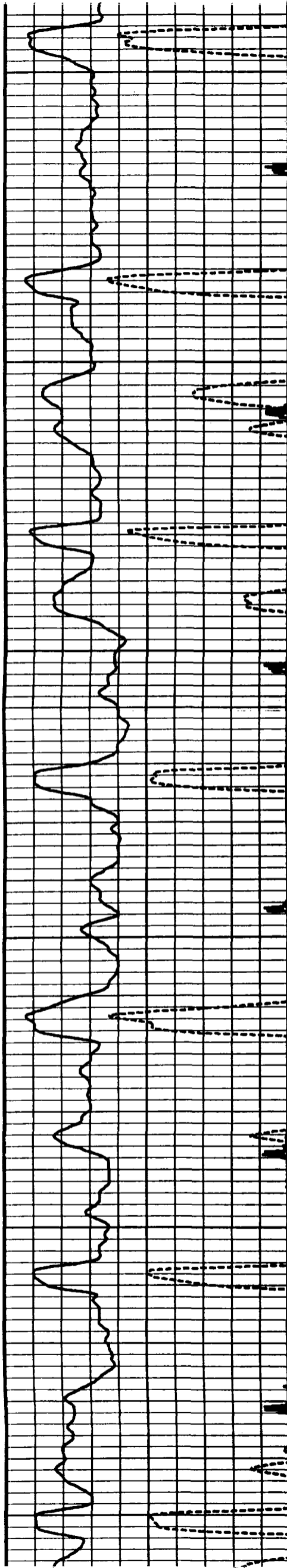
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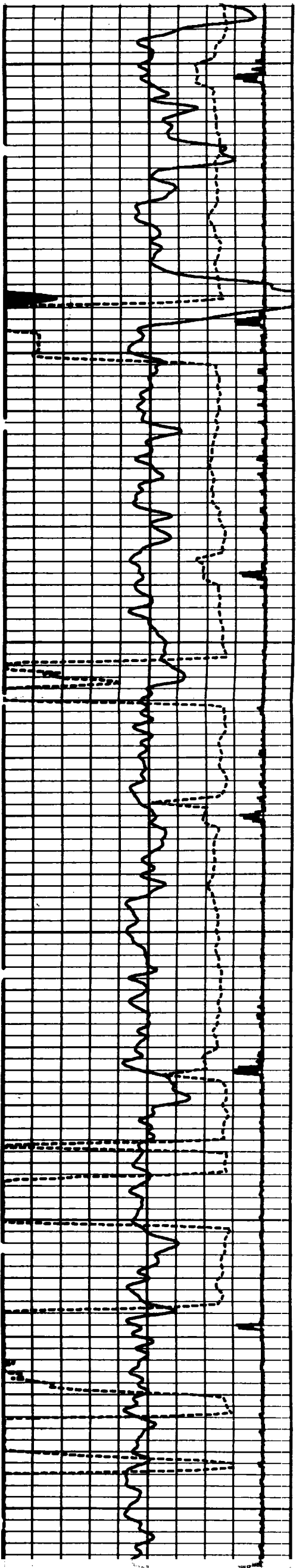
5" = 100'





2350
2400
2450
2500
2550
2600





2600

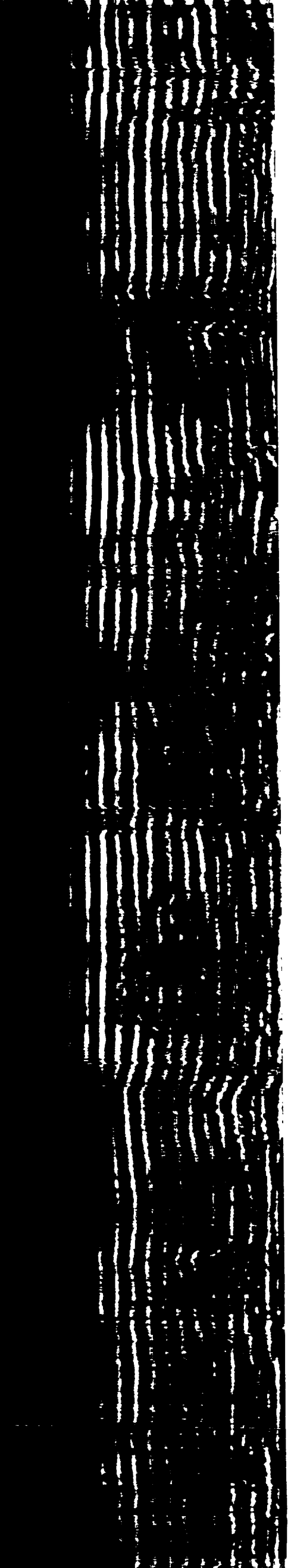
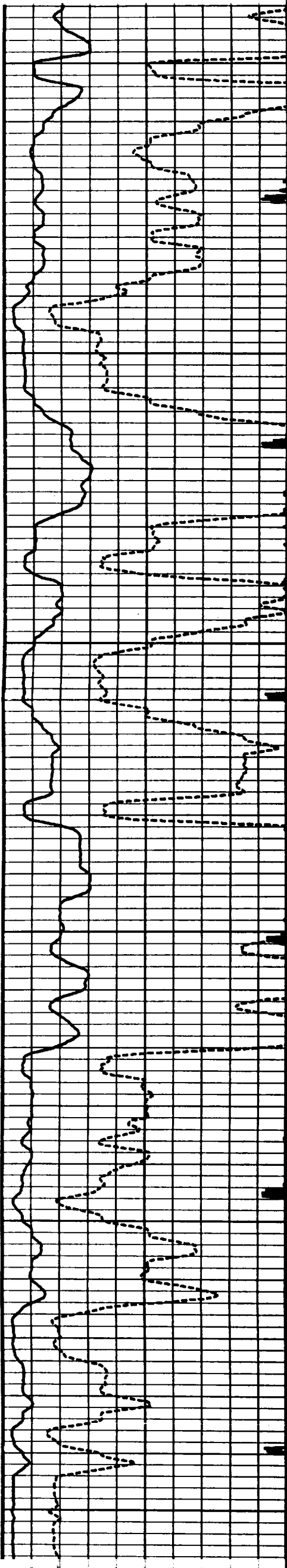
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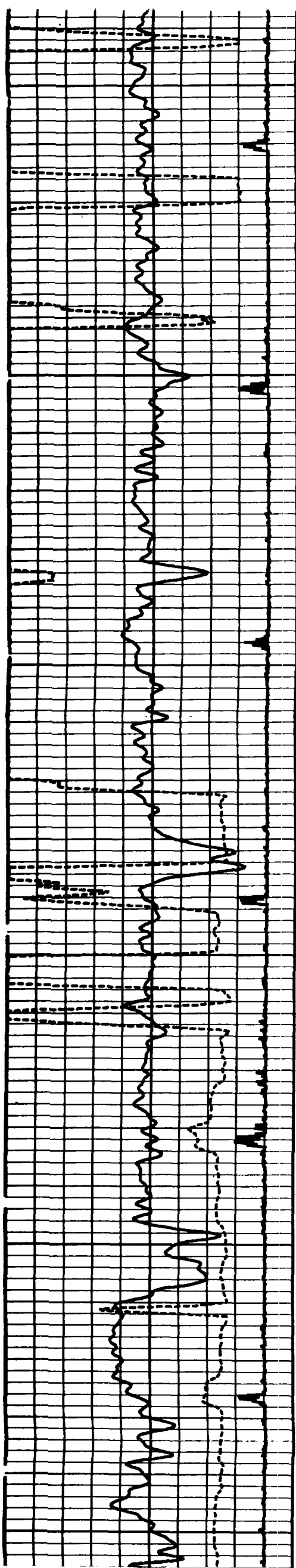
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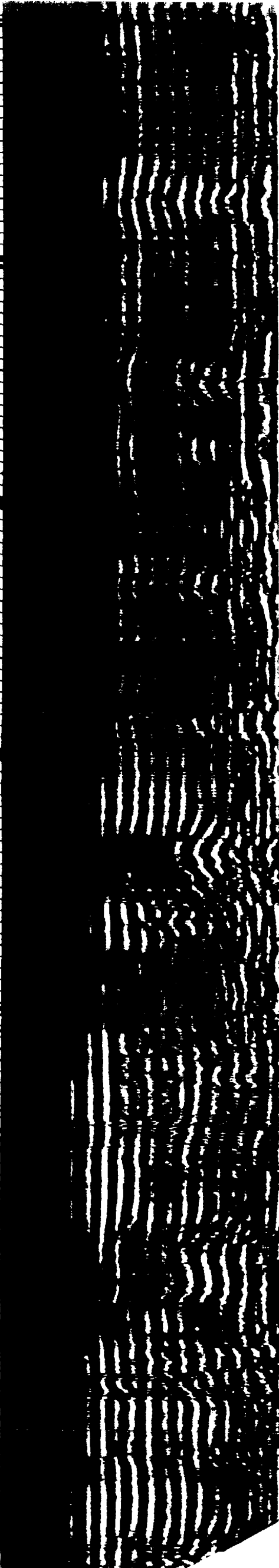
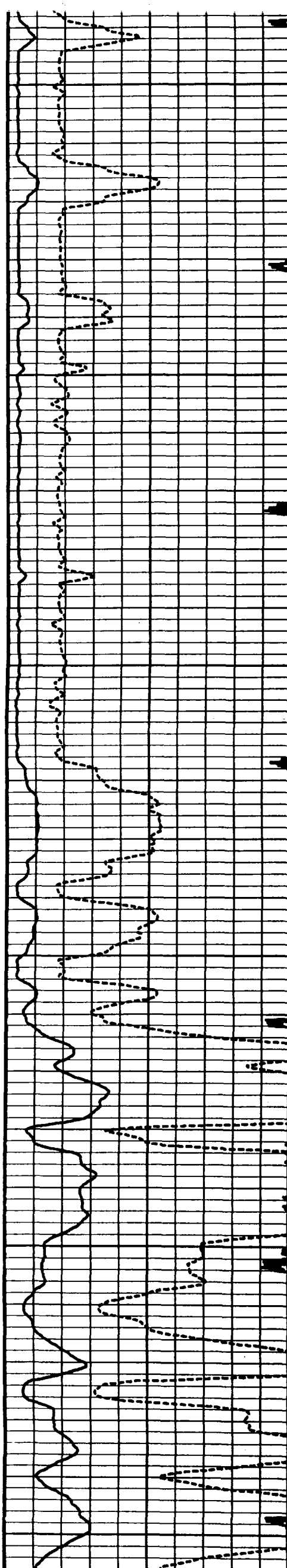
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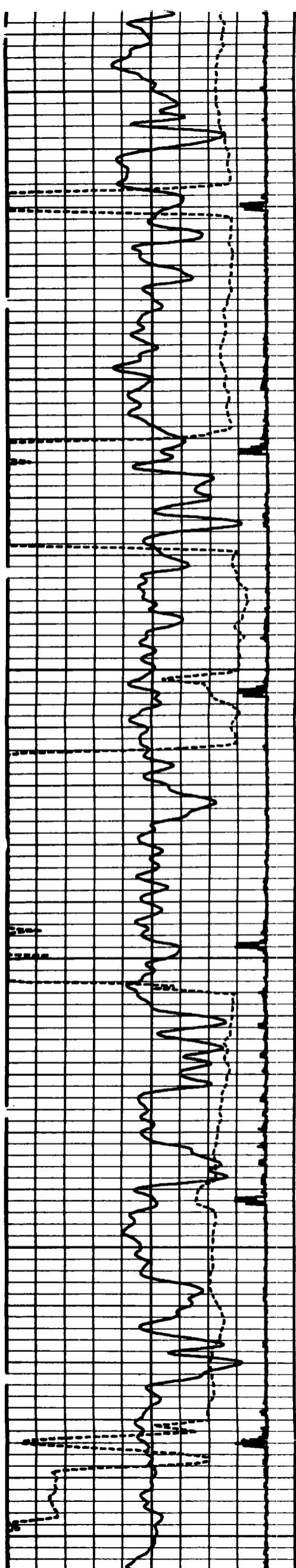
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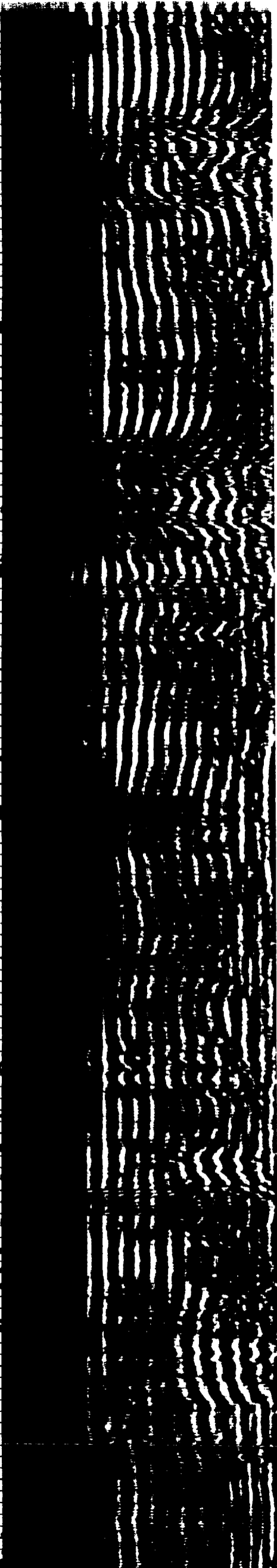
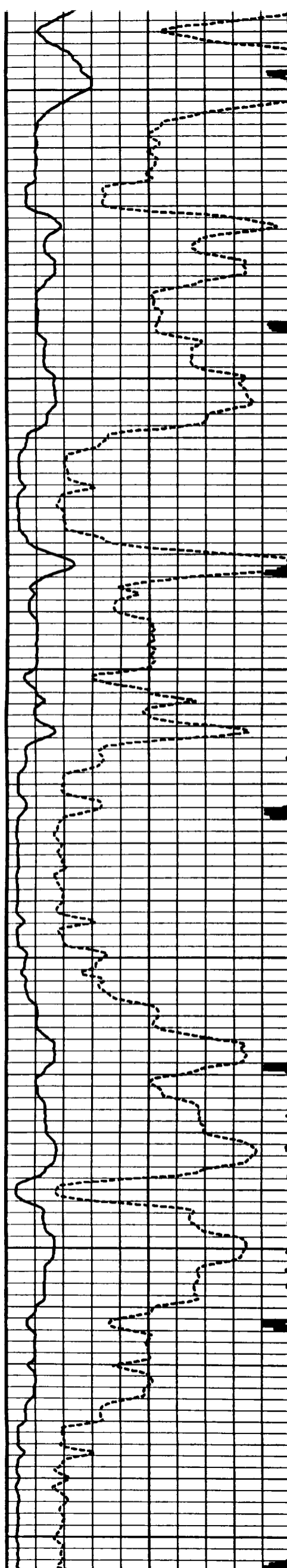
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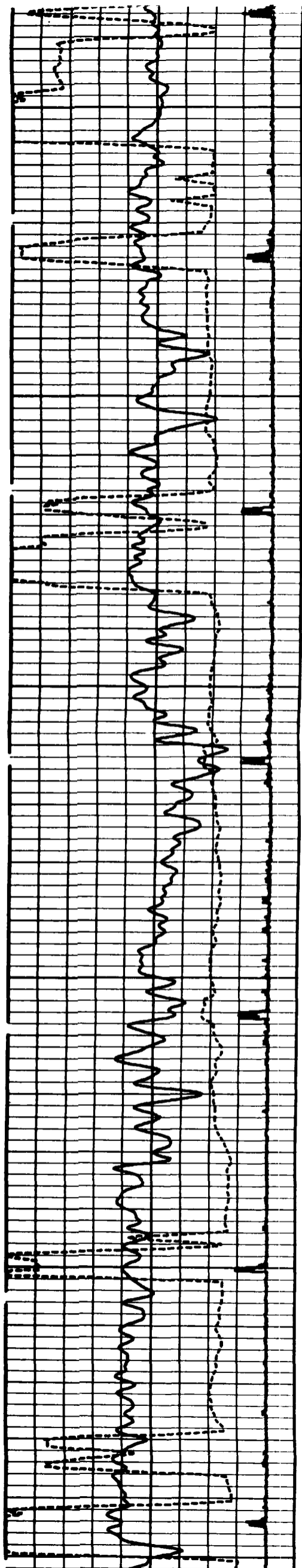
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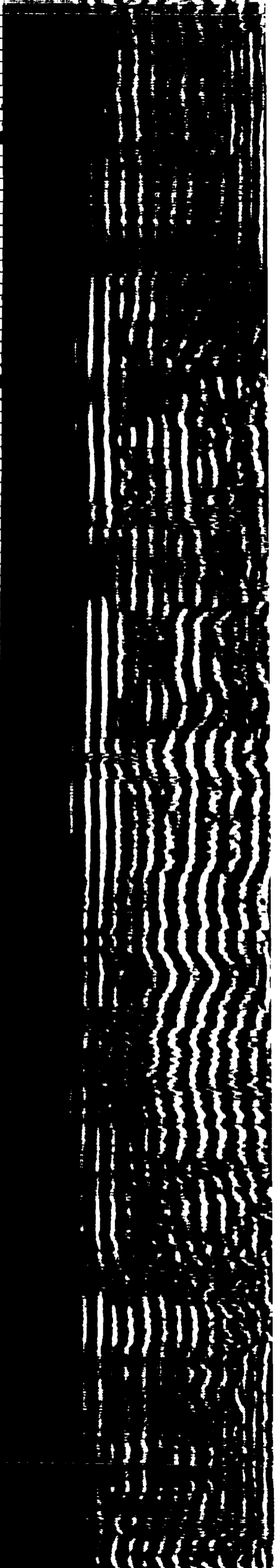
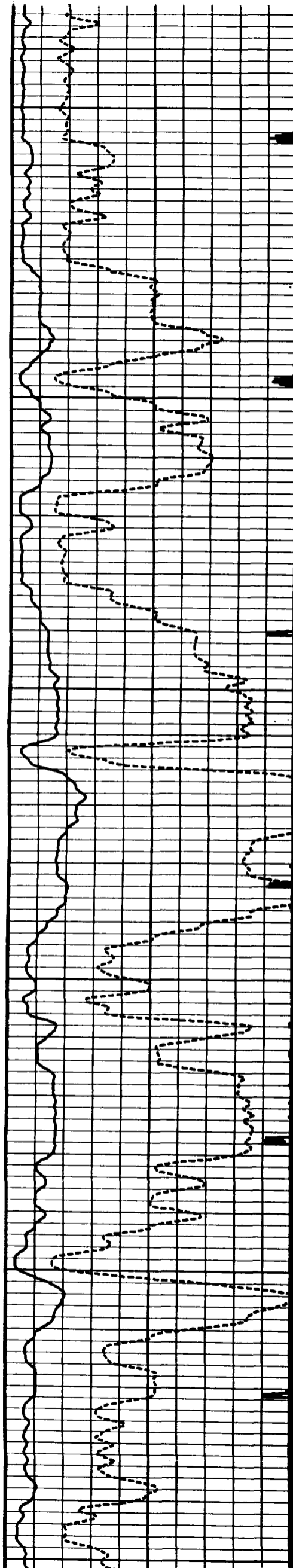
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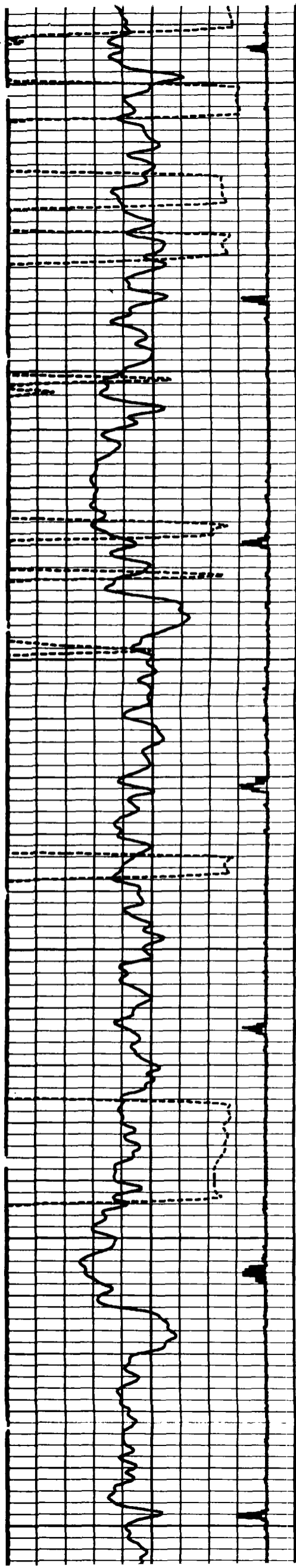
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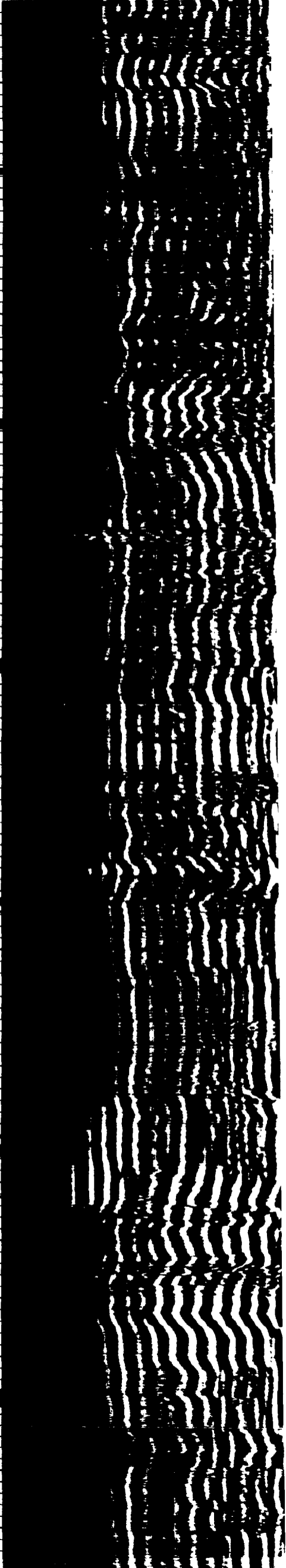
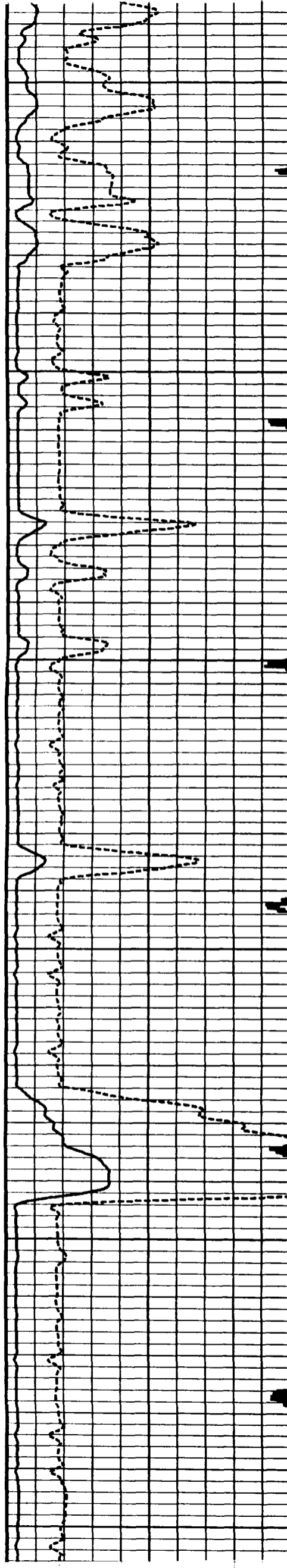
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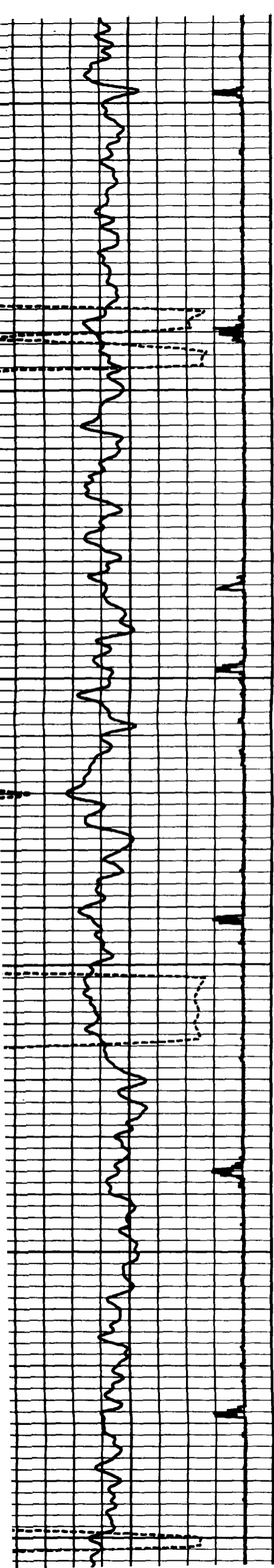
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3850

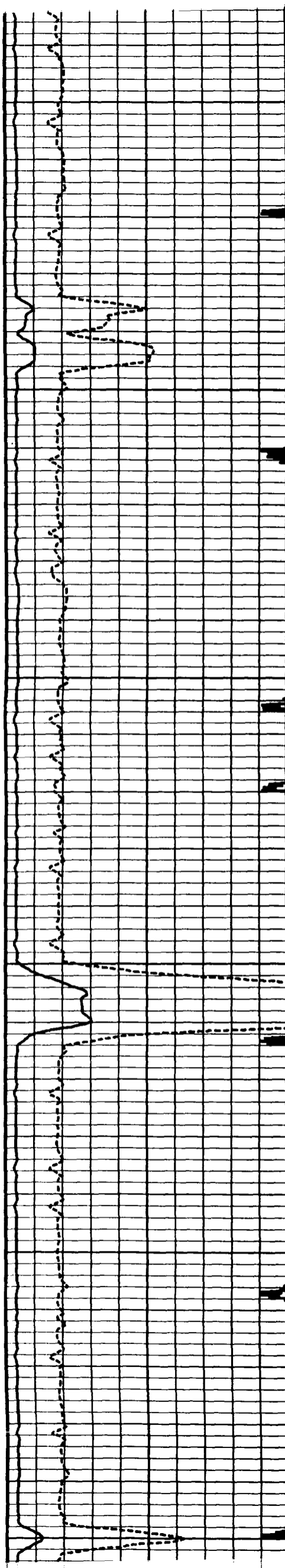
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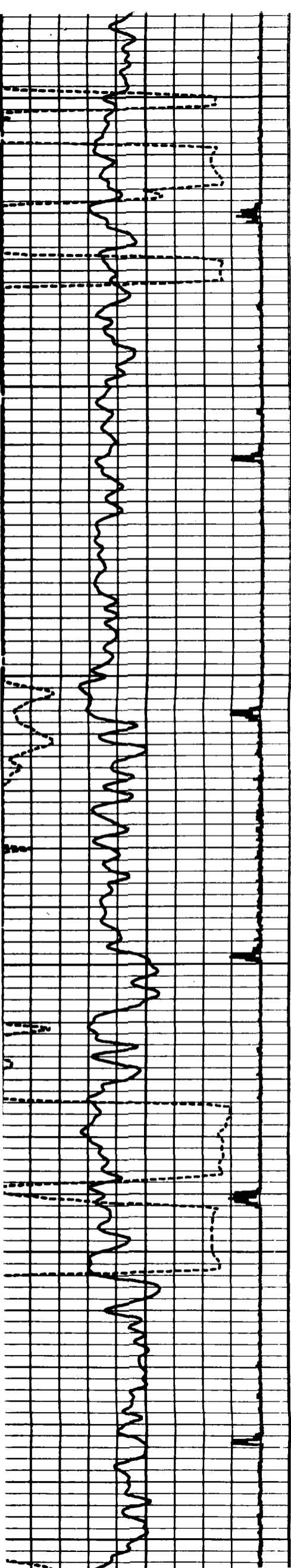
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4100

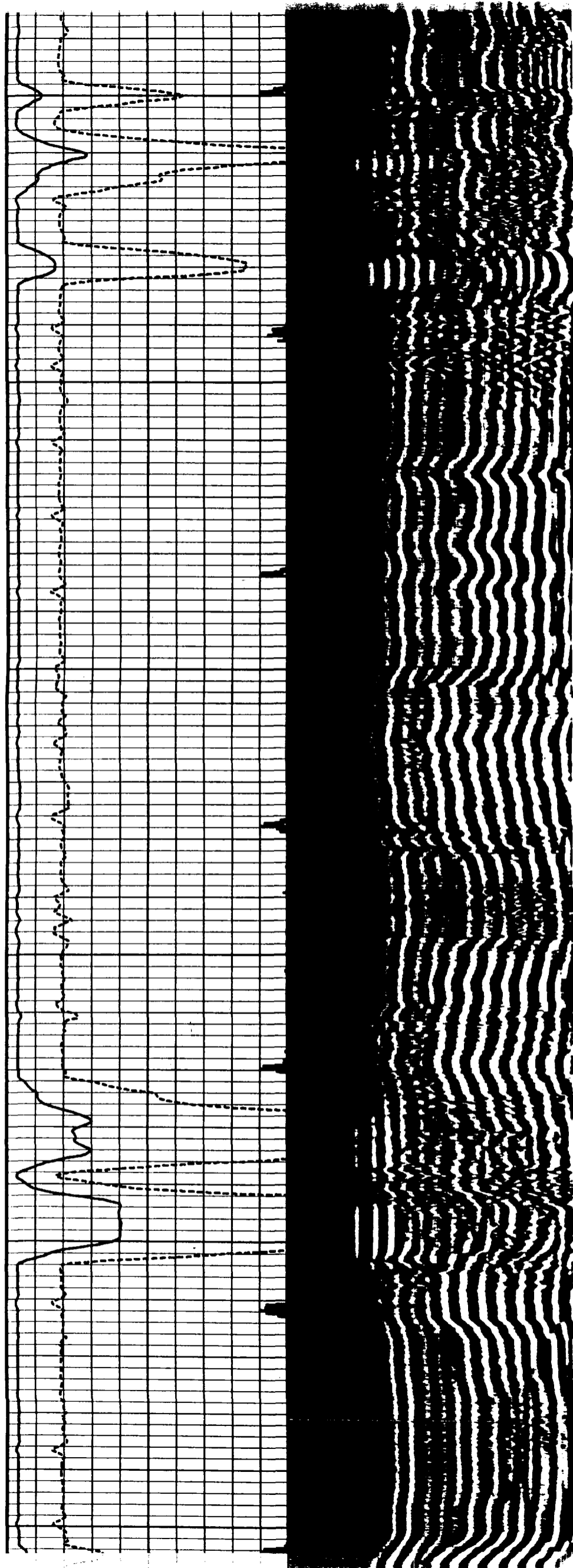
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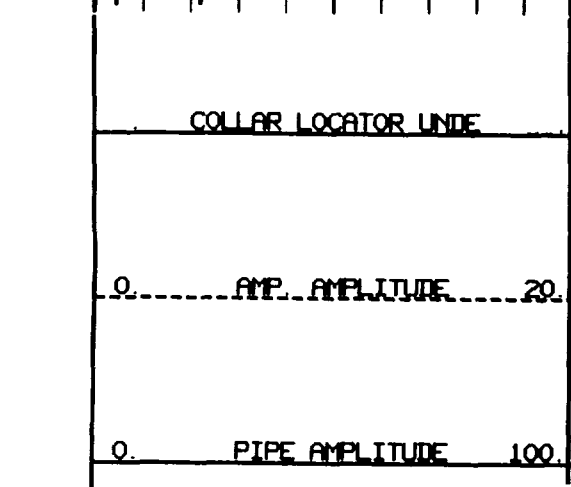
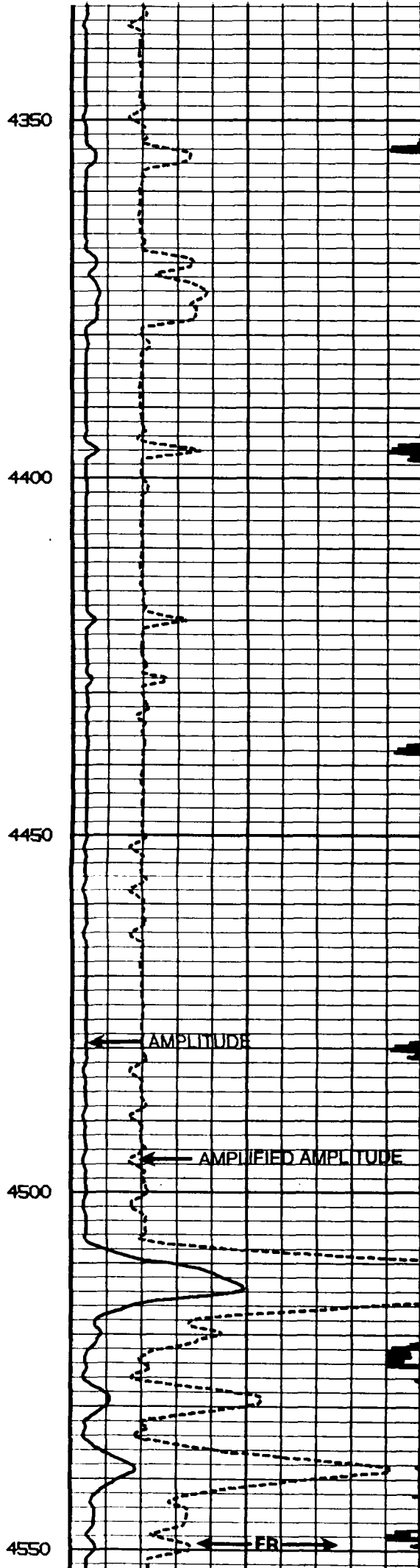
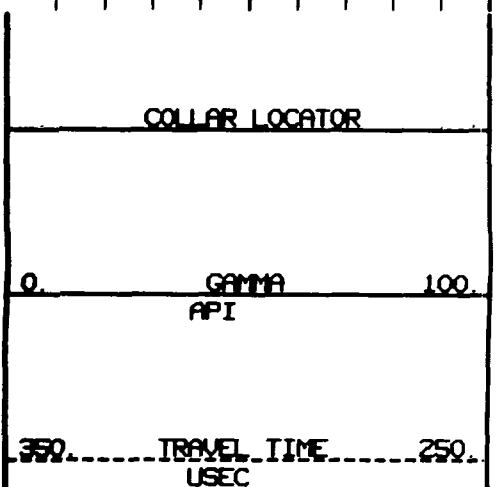
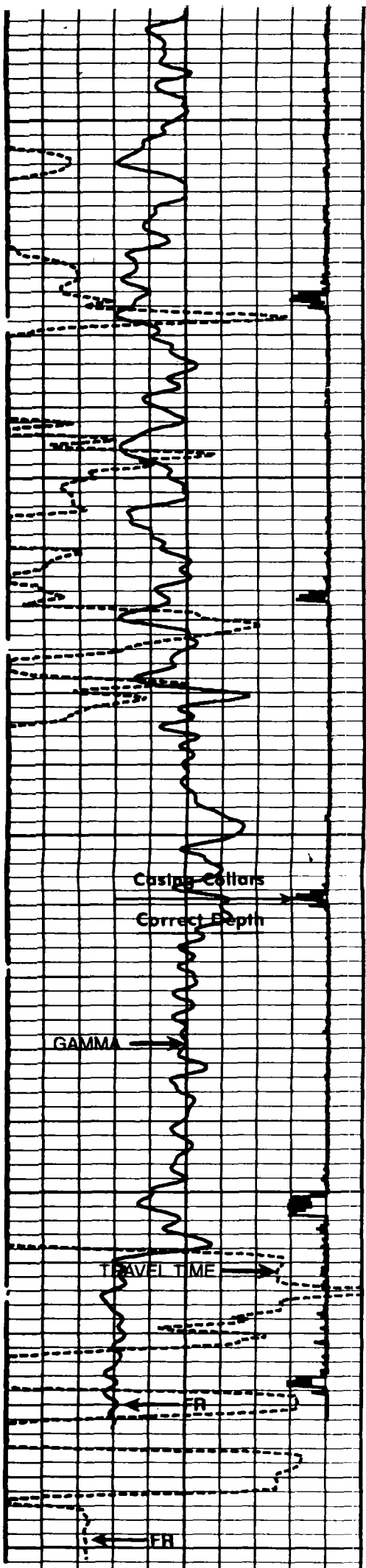
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4250

4300

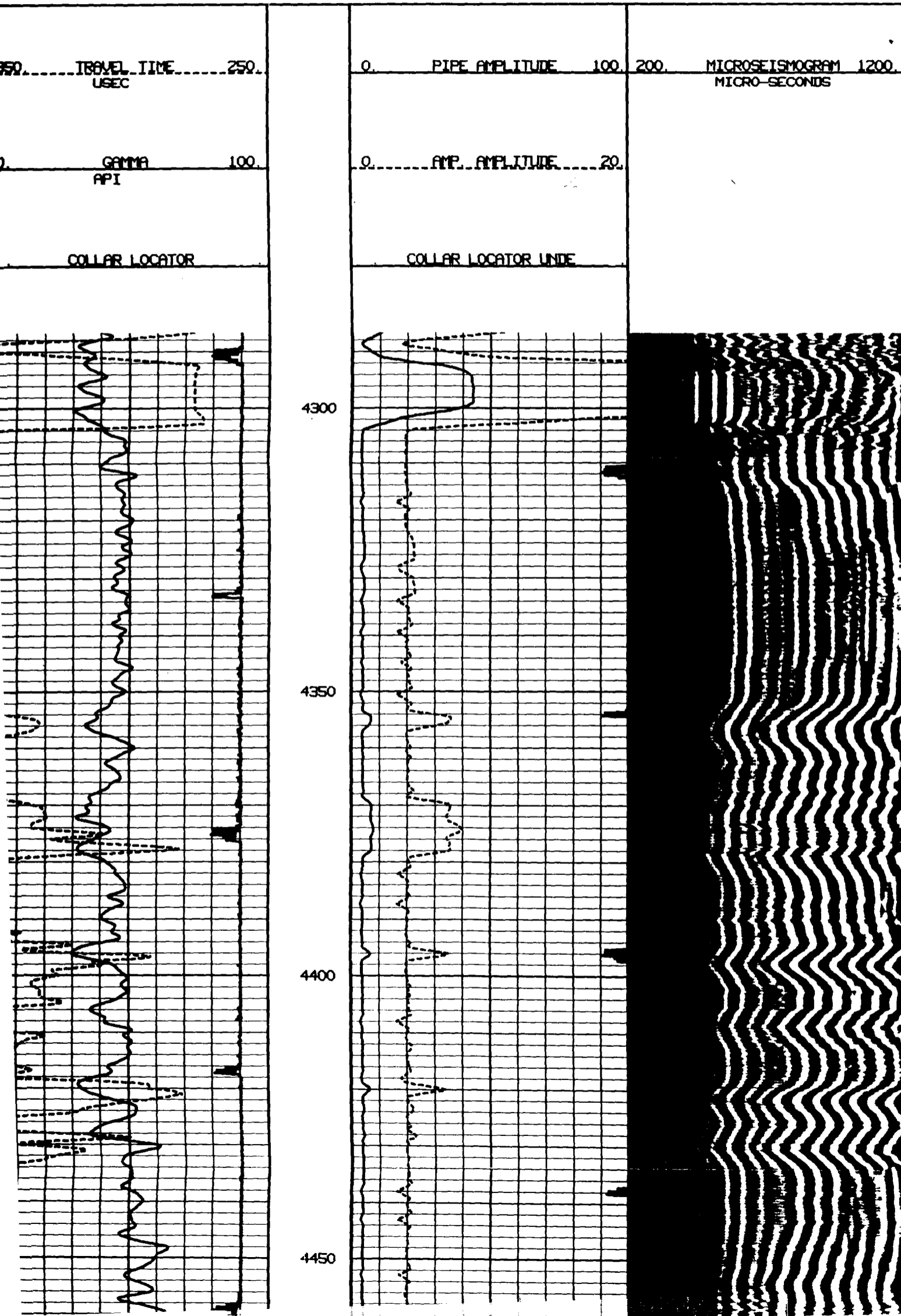
4350





0. TRAVEL TIME 250. USEC	0. PIPE AMPLITUDE 100.	200. MICROSEISMOGRAM 1200. MICRO-SECONDS
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REPEAT SECTION



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: September 30, 1990

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Geodyne Operating Company

3. Address and Telephone No.

(918) 583-5525

320 So. Boston Ave., The Mezzanine Tulsa, OK 74103-3708

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

5. Lease Designation and Serial No.

NM-34246

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Amoco 19 Federal No. 2

9. API Well No.

30-015-25846

10. Field and Pool, or Exploratory Area

Filaree Dome (Delaware)

11. County or Parish, State

Sec 19, T22S, R26E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☒ Conversion to Injection

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

See Attached.

14. I hereby certify that the foregoing is true and correct

Signed

James B. Carr Title Area Superintendent

Date 3-26-92

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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Budget Bureau No. 1004-0135
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Conditions of approval, if any:

WORKOVER SUMMARY

Amoco 19 Fed #2 AFE #801064

02/05/92 Installed valve on the bradenhead, RU Rowland pmp truck, loaded annulus w/1 bbl wtr; press to 300 psi for 15 mins, held, flowed back 1/2 bbl wtr; RD Rowland truck.

E.D.C.-\$300 E.C.C.-\$500

02/06/92 RU Pride Well Service; NU BOP, RU Thomasom Wireline; ran ga ring to 2600'; set CIBP @ 2550', spotted 3 sxs cmt on plug; PBT 2525', perf 2370', 74', 86', 98', 2408', 20', 26', and 46'; PU SN & pkr and started in the hole; SDFN.

E.D.C.-\$6,431 E.C.C.-\$6,931

02/07/92 SITP=25 psi; blew well dn; RU swab, made 2 runs, rec 4 bbls, RIH w/tbg, set pkr @ 2487', test CIBP & cement plug to 750 psi for 15 mins, pull up to 2300', circ pkr fluid, att to set pkr, would not set, TOOH w/pkr, put 40 bbls oil in tank, SDFN.

E.D.C.-\$5,139 E.C.C.-\$12,070

02/08/92 PU repaired pkr; TIH w/74 jts 2-7/8" EUE 6.7# plastic coated tbg to 2300.31'; RU Rowland pmp truck; circ pkr fluid containing 2% Kcl, 10 gal. chem. corrosion inhib. & oxygen scavenger, (TH377), set pkr 6000# comp. test pkr to 550 psi witnessed by Mike Stubblefield-State of New Mexico Energy Minerals & natural Resources Dept.; RD Rowland truck; SDFN.

E.D.C.-\$1,493 E.C.C.-\$13,564

02/09/92 RU Acid Engineering & Rowland kill truck; press annulus to 450 psi; test lines to 3500 psi; pmp 2000 gal 15% Hcl NEFE acid; ave rate 5.1 BPM @ 1000 psi; flushed w/48 bbls, ran pmp in test after flush as follows:

Rate, BPM	Press	Bbl Pmpd After Stabalized
9.7	2000	21
8.0	1600	64
5.0	1100	60
3.0	850	50
2.0	800	27
1.0	775	10

Total volume pmpd=280 bbls

RD Acid Engineering; back flowed 150 bbls to tank LTR 226 bbls, RD Pride Well Svc., left SI w/300 psi @ 16:45.

02/10/92 SITP=70 psi yesterday.

SITP=20 psi today.

E.D.C.-\$6,072 E.C.C.-\$19,636

02/11/92 SITP=20 psi.

02/12/92 SITP=48 psi; RU Rowland Trucking; pmp 3.2 bbls prod wtr & press to 60 psi; pmp add'l 2.2 bbls @ .28 BPM; press incr to 450 psi; SD; RD Rowland Trucking; press dropped to 340 psi in 5 mins; 180 psi in 30 mins; 38 psi in 1 hr.

E.D.C.-\$389 E.C.C.-\$20,025

02/13/92 Workover abandoned.

UNITED STATES
DEPARTMENT OF THE INTERIOR
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02/06/92 RU Pride Well Service; NU BOP, RU Thomasom Wireline; ran ga ring to 2600'; set CIBP @ 2550', spotted 3 sxs cmt on plug; PBT 2525', perf 2370', 74', 86', 98', 2408', 20', 26', and 46'; PU SN & pkr and started in the hole; SDFN.

E.D.C.-\$6,431 E.C.C.-\$6,931

02/07/92 SITP=25 psi; blew well dn; RU swab, made 2 runs, rec 4 bbls, RIH w/tbg, set pkr @ 2487', test CIBP & cement plug to 750 psi for 15 mins, pull up to 2300', circ pkr fluid, att to set pkr, would not set, TOOH w/pkr, put 40 bbls oil in tank, SDFN.

E.D.C.-\$5,139 E.C.C.-\$12,070

02/08/92 PU repaired pkr; TIH w/74 jts 2-7/8" EUE 6.7# plastic coated tbg to 2300.31'; RU Rowland pmp truck; circ pkr fluid containing 2% Kcl, 10 gal. chem. corrosion inhib. & oxygen scavenger, (TH377), set pkr 6000# comp. test pkr to 550 psi witnessed by Mike Stubblefield-State of New Mexico Energy Minerals & natural Resources Dept.; RD Rowland truck; SDFN.

E.D.C.-\$1,493 E.C.C.-\$13,564

02/09/92 RU Acid Engineering & Rowland kill truck; press annulus to 450 psi; test lines to 3500 psi; pmp 2000 gal 15% Hcl NEFE acid; ave rate 5.1 BPM @ 1000 psi; flushed w/48 bbls, ran pmp in test after flush as follows:

Rate, BPM	Press	Bbl Pmpd After Stabalized
9.7	2000	21
8.0	1600	64
5.0	1100	60
3.0	850	50
2.0	800	27
1.0	775	10

Total volume pmpd=280 bbls

RD Acid Engineering; back flowed 150 bbls to tank LTR 226 bbls, RD Pride Well Svc., left SI w/300 psi @ 16:45.

02/10/92 SITP=70 psi yesterday.

SITP=20 psi today.

E.D.C.-\$6,072 E.C.C.-\$19,636

02/11/92 SITP=20 psi.

02/12/92 SITP=48 psi; RU Rowland Trucking; pmp 3.2 bbls prod wtr & press to 60 psi; pmp add'l 2.2 bbls @ .28 BPM; press incr to 450 psi; SD; RD Rowland Trucking; press dropped to 340 psi in 5 mins; 180 psi in 30 mins; 38 psi in 1 hr.

E.D.C.-\$389 E.C.C.-\$20,025

02/13/92 Workover abandoned.

March 26, 1992

CASE FILE-10433

Mr. David Catanach, Engineer
State of New Mexico
Energy, Minerals and Natural Resources Department
Santa Fe, new Mexico 87505

Re: Geodyne Operating Co.- Amoco "19" Federal No. 2
Conversion to Water Disposal

Dear Mr. Catanach,


We have received your letter of February 20, 1992 requiring that an injection tracer survey be run on the referenced well to verify that water is entering the desired interval. Please be advised that Geodyne is terminating work on the well and will not finish the conversion to water disposal.

Geodyne was seeking approval to return Delaware produced water to the Delaware formation in an interval that had been previously proved to be 100% water saturated. Because an offset operator had not covered the lower part of the Delaware with cement, the permit required Geodyne to cement the interval in the other operators well. It was our feeling that the water offered no threat to the other well since (1) it was being returned to the zone from which it came and (2) it would require many years past the economic life of the property for the water to migrate to the other well. Our application, however, was revised to provide for injection into an upper zone covered and protected in all wells involved.

The attached sundry notice describes the work that followed your approval of this proposal. Unfortunately the permeability of the zone is such that it will not accept the required volume at without extensive stimulation.

Due to the marginal nature of the production, Geodyne has decided to abandon the operation. We are currently looking for a purchaser for the property. If none can be found the wells will be plugged and abandoned.

Yours very truly,


James B. Sellers, PE
Area Superintendent

xc: Artesia District

WORKOVER SUMMARY

Amoco 19 Fed #2 AFE #801064

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02/13/92 Workover abandoned.



State of New Mexico
ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT
Santa Fe, New Mexico 87505



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

MATTHEW BACA
DEPUTY SECRETARY

January 27, 1992

CAMBELL & BLACK
Attorneys at Law
P. O. Box 2208
Santa Fe, New Mexico 87504

RE: CASE NO. 10433
ORDER NO. R-9629

Dear Sir:

Enclosed herewith are two copies of the above-referenced Division order recently entered in the subject case.

Sincerely,

Florene Davidson
OC Staff Specialist

FD/sl

cc: BLM Carlsbad Office
Jesse Rayroux

VILLAGRA BUILDING - 408 Galisteo
Forestry and Resources Conservation Division
P.O. Box 1948 87504-1948
827-5830
Park and Recreation Division
P.O. Box 1147 87504-1147
827-7465

2040 South Pacheco
Office of the Secretary
827-5950
Administrative Services
827-5925
Energy Conservation & Management
827-5900
Mining and Minerals
827-5871

LAND OFFICE BUILDING - 310 Old Santa Fe Trail
Oil Conservation Division
P.O. Box 2088 87504-2088
827-5800

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

December 17, 1991

Mr. Jesse F. Rayroux
P.O. Box 644
Carlsbad, New Mexico 88220

Case 10433

Dear Mr. Rayroux:

I have received your letter dated November 21, 1991, whereby you protested Geodyne Operating Company using the PFI Amoco "19" Federal Well No. 2 as a salt water disposal well. Please be advised that during the time that the application was being processed, I did not receive any written or verbal communication from anyone stating any objections to the application, or requesting a public hearing on the matter. It is my understanding that you were in communication with personnel from our Artesia district office. It is further my understanding that there may have been some confusion between yourself and Division personnel as to the correct procedure for protesting such an application. If you did not receive accurate information as to the procedures for protesting the application, I apologize.

Please be advised that Geodyne Operating Company has applied to the Division to amend the existing salt water disposal permit. They have requested that the matter be set for public hearing on January 9, 1992. I am enclosing a copy of their request for your review.

If you feel you have a basis for protesting the application, I suggest that you attend the hearing scheduled for January 9 in Santa Fe. If you do not attend the hearing, you will be precluded from challenging this matter at a later date. If I can be of further assistance, please contact me at (505) 827-5800.

Sincerely,

David Catanach
Engineer