108-025-08 ENFORCEMENT ACTION FILES
207b UIC - EAST POPLAR OIL FIELD ENFORCEMEN
SDWA SEC. 1431

Region 8
64428

Release in Full

108-025-08 ENFORCEMENT ACTION FILES
207b UIC - EAST POPLAR OIL FIELD ENFORCEMEN
SDWA SEC. 1431
Folder ID: 64428 1984 Privileged

Rec.
8-24-81.

Region 8
64428

TEXAS OIL & GAS CORP.

Inter-Office Memorandum

Date 8/19/81

To: Ron Becker

Billings, Montana

From: Donald Chase

Re: BUCKLES SWD #1 (SUPPLEMENT #1)

ROOSEVELT COUNTY, MONTANA

Attached is approved AFE No. 818653 (Supplement #1) to drill and complete the above referenced well.

Donald Chase

DC/wb

cc: Leonard Landrum (2)
Steve Haworth
Ethel Nuttall
Lelah Sartain
Steve Graham
H. Adair
W. Webb
File

MAR02-0028

TXO-81

MAR-28

TEXAS OIL & GAS CORP.
FORM 24
Rev. 9/01/79

AUTHORITY FOR EXPENDITURE
DRILLING WELL

Date August 6, 1981 Co. Cd.

District MONTANA/NORTH DAKOTA Well Name BUCKLES SWD Well No. 1

Well Location T37N, R8E, M.P. MS 33 Depth 960'

Field E. POPLAR County ROOSEVELT State MONTANA

Prepared By: J.O. Dyk Submitted By: R.G. Becker Dallas X District

CAT. NO.	NATURE OF EXPENDITURE	QUANTITY	ACTUAL CASH		ESTIMATED COST APPROVED APE MAT'L ON HAND		SUPPLEMENTAL TOTAL	
	DRILLING			650		200		450
01	Casing							
02	Casinghead							
03	Location, Road & Dirt Work		3	500		400	3	100
04	Drilling - Footage/Turnkey							
05	Drilling - Daywork		58	870	12	000	46	870
06	Drilling - Rig Support		21	187	2	000	19	187
07	Bits		2	500		400	4	100
08	Supervision			250		200		50
09	Overhead			100		100	--	---
10	Mud & Chemicals		11	970		400	11	570
11	Cementing Services & Supplies							
12	Testing & Logging							
13	Rentals		8	500		300	8	200
14	Other IDC							
15	Other Equipment							
	TOTAL DRILLING		107	527	16	000	93	527
	COMPLETION							
17	Casing		9	234	10	600	(1	366)
18	Tubing		6	383	4	900	1	483
19	Wellhead			800		800	-	---
20	Subsurface Equipment		2	767	1	400	1	367
21	Supervision			200		200	-	---
22	Mud & Chemicals			100		200		(100)
23	Testing, Logging & Perforating		8	500	3	000	5	500
24	Stimulation		2	000	3	000	(1	000)
25	Overhead			100		100	--	---
26	Rentals		---	---	1	000	(1	000)
27	Service Rig		4	000	4	000	--	---
28	Cementing Services & Supplies		29	537	4	800	24	737
29	Other IDC							
	TOTAL COMPLETION		63	621	34	000	29	621
	PRODUCTION EQUIPMENT							
32	Pumping Unit							
33	Engine & Motor							
34	Rods							
35	Flow Lines		1	900	1	000		900
36	Meters			400	-	---		400
37	Installation		3	500	2	000	1	500
38	Storage							
39	Separation & Treating							
40	Other Equipment		48	000	48	000	--	---
	TOTAL PRODUCTION EQUIPMENT		53	800	51	000	2	800
	TOTALS		224	948	101	000	125	948

TEXAS OIL & GAS CORP.
AUG 1 1981
DALLAS - OPERATIONS

OWNER NAME	WORKING INTEREST	DATE APPROVED
TXO	100%	8-14-81

APPROVED:

A.D. Carter, Jr., President

MAR02-0029

MAR-29

8/17/

AFE No. 81-8653 Property No. 7839

TXO

TXO PRODUCTION CORP.
1800 LINCOLN CENTER BUILDING
DENVER, COLORADO 80264

TELEPHONE (303) 861-4246

+PB copy

District Well File via AKP

July 2, 1984

Chief, Drinking Water Branch
U.S. Environmental Protection Agency (8WM-DW)
1860 Lincoln Street
Denver, Colorado 80295

Re: Buckles SWD No. 1
SE/4 NW/4 Sec. 22-T28N-R51E
Roosevelt County, Montana

Gentlemen:

The enclosed Sundry Notice is submitted pursuant to your June 25, 1984 letter request for a permit application for the referenced salt water disposal well. The well was plugged and abandoned on May 26, 1984. The enclosed Sundry Notice describes the plugs which were set. A copy of the BLM approval is also enclosed for your records.

If you have any questions, please contact me at this office.

Very truly yours,

TXO PRODUCTION CORP.

K.P. Bow
Environmental Scientist

KPB/jy

Enclosures/as stated

MAR02-0030

A SUBSIDIARY OF TEXAS OIL & GAS CORP.

MAR-30

TXO

TXO PRODUCTION CORP.
1800 LINCOLN CENTER BUILDING
DENVER, COLORADO 80264

TELEPHONE (303) 861-4246

July 10, 1984

MONTANA BOARD OF OIL & GAS CONSERVATION
2535 St. Johns Avenue
Billings, Montana 52102

RE: Buckles "SWD" #1
SE NW Section 22, T28N-R51E
Roosevelt County, Montana

Dear Sirs:

Enclosed please find two copies of a sundry notice and two copies each of two electric logs. This should complete your files on the above referenced well.

If you have any further questions, please contact me at this office.

Sincerely,

TXO PRODUCTION CORP.

M. David Clouatre

M. David Clouatre
Drilling & Production Engineer

Encl.
MDC/tlw

MAR02-0031

A SUBSIDIARY OF TEXAS OIL & GAS CORP.

WF MAR 1984 MAR-31

Form 3160-5
November 1983)
Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE (Other instructions reverse side)

Form approved. WRF-999
Budget Bureau No. 1004-0135
Expires August 31, 1985

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.)

5. LEASE DESIGNATION AND SERIAL NO.: Contract No. 14-20-0256-5066

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Austin R. Buckles

7. UNIT AGREEMENT NAME: - - -

8. FARM OR LEASE NAME: Buckles

9. WELL NO.: SWD #1

10. FIELD AND POOL, OR WILDCAT: - - -

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 22-T28N-R51E

1. OIL WELL ☐ GAS WELL ☐ OTHER: Salt Water Disposal Well

2. NAME OF OPERATOR: TXO Production Corp. Attn: C.K. Curlee

3. ADDRESS OF OPERATOR: 1800 Lincoln Center Bldg. Denver, CO 80264

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1803' FNL, 1853' FWL (SE/NW) Section 22-T28N-R51E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 2085' G.R.

12. COUNTY OR PARISH: Roosevelt

13. STATE: MT

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Final Abandonment Notice (FAN)			X
(Other)			☐	(Note: Report results of multiple completion on Well 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 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.)*

This is to notify you that TXO Production Corp. has completed restoration of the disturbed surface area for this P&A'd well. The well site is ready for final abandonment and bond release.

FINAL ABANDONMENT APPROVED

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

SIGNED Charles K. Curlee TITLE Environmental Manager DATE June 8, 1988

(This space for Federal or State office use)

APPROVED BY Arnold E. Dengan TITLE ADM - Minerals DATE JUN 1 1992

CONDITIONS OF APPROVAL, IF ANY:

MAR02-0032

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

MAR-32

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
MILES CITY DISTRICT OFFICE
P.O. BOX 940
MILES CITY, MONTANA 59301-0940

TAKE PRIDE IN AMERICA

WF

IN REPLY TO:

3160
14-20-0256-5066

1988

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

TXO Production Corp.
1660 Lincoln, Ste. 1800
Denver, Colorado 80264

RECEIVED
APR 18 89
DENVER, ENV DEPT.

RE: Indian Lease No. 14-20-0256-5066
Well Name and No. SWD No. 1
SE¼NW¼, Section 22, T. 28 N, R. 51 E.
Roosevelt County, Montana

Gentlemen:

We have not received certain required reports for the above referenced location. Please submit the reports which are indicated below:

_____ Monthly Report of Operations. (Form 3160-6, 2 copies) Required by 43 CFR 3162.4-3

_____ Well Completion or Recompletion Report covering drilling operations, and well status. (Form 3160-4, 2 copies) Required by 43 CFR 3160

_____ E-logs, wire line logs, sample logs, mud logs, drill time logs, and well surveys. (2 copies) Required by 43 CFR 3162.4-2

_____ Geologists Report. (Geological and engineering summaries) Required by 43 CFR 3162.4-2

_____ Notice of Intention to Abandon. (Form 3160-5, Sundry Notices and Reports on Wells, 4 copies) Required by 43 CFR 3162.3-2

_____ Subsequent Report of Abandonment. (Form 3160-5, Sundry Notices and Reports on Wells, 4 copies) Required by 43 CFR 3162.3-2

__XX__ Final Abandonment Notice. (Form 3160-5, Sundry Notices and Reports on Wells, 4 copies) Required by 43 CFR 3162.3-2

_____ Present Status and Plans

MAR02-0033

MAR-33

Please submit these reports to this office within 20 days upon receipt of this letter. Failure to submit these reports within the specified timeframe will incur an assessment of $250.00 in accordance with 43 CFR 3163.1(a).

If you have any questions, contact Bernice Knopp at 406-232-4331.

Sincerely yours,

Arnold E. Danger

Assistant District Manager
Division of Mineral Resources

MAR02-0034

MAR-34

Buckles SWD #1

P A

TXO-110

MAR02-0035

MAR-35

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved. WRF-111
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.
Contract No. 14-20-0256-5066

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.)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Austin R. Buckles

1. OIL WELL ☐ GAS WELL ☐ OTHER Salt Water Disposal Well

7. UNIT AGREEMENT NAME
— — —

2. NAME OF OPERATOR
TXO Production Corp. Attn: C.K. Curlee

8. FARM OR LEASE NAME
Buckles

3. ADDRESS OF OPERATOR
1800 Lincoln Center Bldg. Denver, CO 80264

9. WELL NO.
SWD #1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1803' FNL, 1853' FWL (SE/NW) Section 22-T28N-R51E

10. FIELD AND POOL, OR WILDCAT
— — —

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 22-T28N-R51E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
2085' G.R.

12. COUNTY OR PARISH
Roosevelt

13. STATE
MT

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 PLANS	☐
(Other)			☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
(Other) Final Abandonment Notice (FAN)			X

(NOTE: Report results of multiple completion on Well 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 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.)*

This is to notify you that TXO Production Corp. has completed restoration of the disturbed surface area for this P&A'd well. The well site is ready for final abandonment and bond release.

FINAL ABANDONMENT APPROVED

JUN 1992

MAR02-0036

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

SIGNED Charles K. Curlee TITLE Environmental Manager DATE June 8, 1988

(This space for Federal or State office use)

APPROVED BY Arnold E. Dougan TITLE ADM - Minerals DATE JUN 1 1992

CONDITIONS OF APPROVAL, IF ANY:

TAC-90

*See Instructions on Reverse Side

MAR-36

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Buckles SWD #1

BEFORE THE BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA

IN THE MATTER OF THE APPLICATION) OF TEXAS OIL & GAS CORPORATION) FOR AN ORDER PERMITTING THE) DISPOSAL OF PRODUCED WATER FROM) THE EAST POPLAR FIELD, ROOSEVELT) COUNTY, MONTANA INTO THE JUDITH) RIVER FORMATION.)	Order No. 121-A-81 ADMINISTRATIVE

In this matter, TEXAS OIL & GAS CORPORATION, applicant, seeks permission from the Board to dispose of water produced from its operation in the East Poplar Field, Roosevelt County, Montana by injecting said water into its Buckles SWD No. 1 well located in the SE¼NW¼ Section 22, Township 28 North, Range 51 East, Roosevelt County, Montana. The application is complete in all respects and satisfies the provisions and requirements of Board Rules No. 36.22.1226 and 36.22.1228. All pertinent information concerning said application has been supplied to the Board and the same does not pertain to secondary recovery or a waterflood plan and it appearing to the Board that the application is in order, the following order is hereby made:

IT IS THEREFORE ORDERED by the Board of Oil and Gas Conservation of the State of Montana that the application of TEXAS OIL & GAS CORPORATION to dispose of water produced with oil from its operations in the East Poplar Field, Roosevelt County, Montana by injection into its well described above for ultimate disposal in the Judith River Formation between the depths of 785 feet to 846 feet be and the same is hereby approved.

IT IS FURTHER ORDERED that at such time as injection is commenced that the operator file its Report of Subsurface Injections through the use of Board Form No. 5 to be submitted to the Board office in Billings, Montana.

Dated at Helena, Montana this 29th day of September, 1981.

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA

D. Rickman, Executive Secretary

(SEAL)

file

Form No. 2

(SUBMIT IN QUADRUPLICATE)

MAC 36-3.18(10)-S18020
MAC 36-3.18(10)-S18030
MAC 36-3.18(10)-S18140
MAC 36-3.18(10)-S18170
MAC 36-3.18(10)-S18200
MAC 36-3.18(10)-S18310
MAC 36-3.18(10)-S18330
MAC 36-3.18(14)-S18380

NOTICE
THIS FORM BECOMES A PERMIT WHEN STAMPED APPROVED BY AN AGENT OF THE BOARD.

TEXAS OIL & GAS CORP.
BILLINGS DISTRICT

SEP 29 1981

TO

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

MAY 1981
RECEIVED
OIL & GAS CONS. COMM. OF MONT.
BILLINGS

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill Water Disp. Well	XX	Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repairing	
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment	
Notice of Intention to Pull or Alter Casing		Supplementary Well History	
Notice of Intention to Abandon Well		Report of Fracturing	

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

AMOUNT RECEIVED 25.00
CHECK NO. 66251
DRILLING PERMIT NO. 810489
EXPIR. DATE 12-27-81

May 8, 19 81

Following is a {notice of intention to do work} on land {~~owned~~ leased} described as follows:

LEASE Buckles

MONTANA (State) Roosevelt (County) E. Poplar (Field)

Well No. SWD #1 22 (m. sec.) T28N (Township) R51E (Range) MPM (Meridian)

The well is located 1803 ft. from {N/S} line and 1853 ft. from {E/W} line of Sec. 22

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground above the sea level is 2085

READ CAREFULLY — DETAILS OF PLAN OF WORK — READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing.)

DETAILS OF WORK
RESULT

1. Drill 8 3/4" hole to ± 950'. Set 7", 20#, K-55 casing and cement to surface.
2. Perforate the Judith River Formation and complete as a salt water disposal well, at an estimated rate of 1000 BWPD at ± 400 psi.

FILING WITH THE COMMISSION ALL LOGS REPORTS, SURVEYS AND ANALYSES [illegible] OR RUN IS REQUIRED IN ACCORDANCE WITH RULE NO. 230.

SALTWATER PITS SHALL BE IMPERMEABLE

Approved subject to conditions on reverse of form

Date SEP 28 1981

ORIGINAL SIGNED BY
CHARLES G. MAIO, Petroleum Geologist
By District Office Agent Title

Company Texas Oil & Gas Corp.
By H. J. Kagie
H. J. Kagie
Title Drilling Engineer
Address 2705 Montana Avenue, Suite 300
Billings, Montana 59101

MAR02-0038

BOARD USE ONLY
API WELL NUMBER
25 0815 21336
STATE COUNTY WELL

NOTE:—Reports on this form to be submitted to the appropriate Distr[illegible]

WHEN USED AS PERMIT TO DRILL, PERMIT EXPIRES 90 DAYS APPROVAL IF WELL NOT SPUDDED OR EXTENSION REC[illegible]

OVER

MAR-38

Locate well by footage measurement from legal subdivision (Section) line and nearest drilling or producible well, if any.

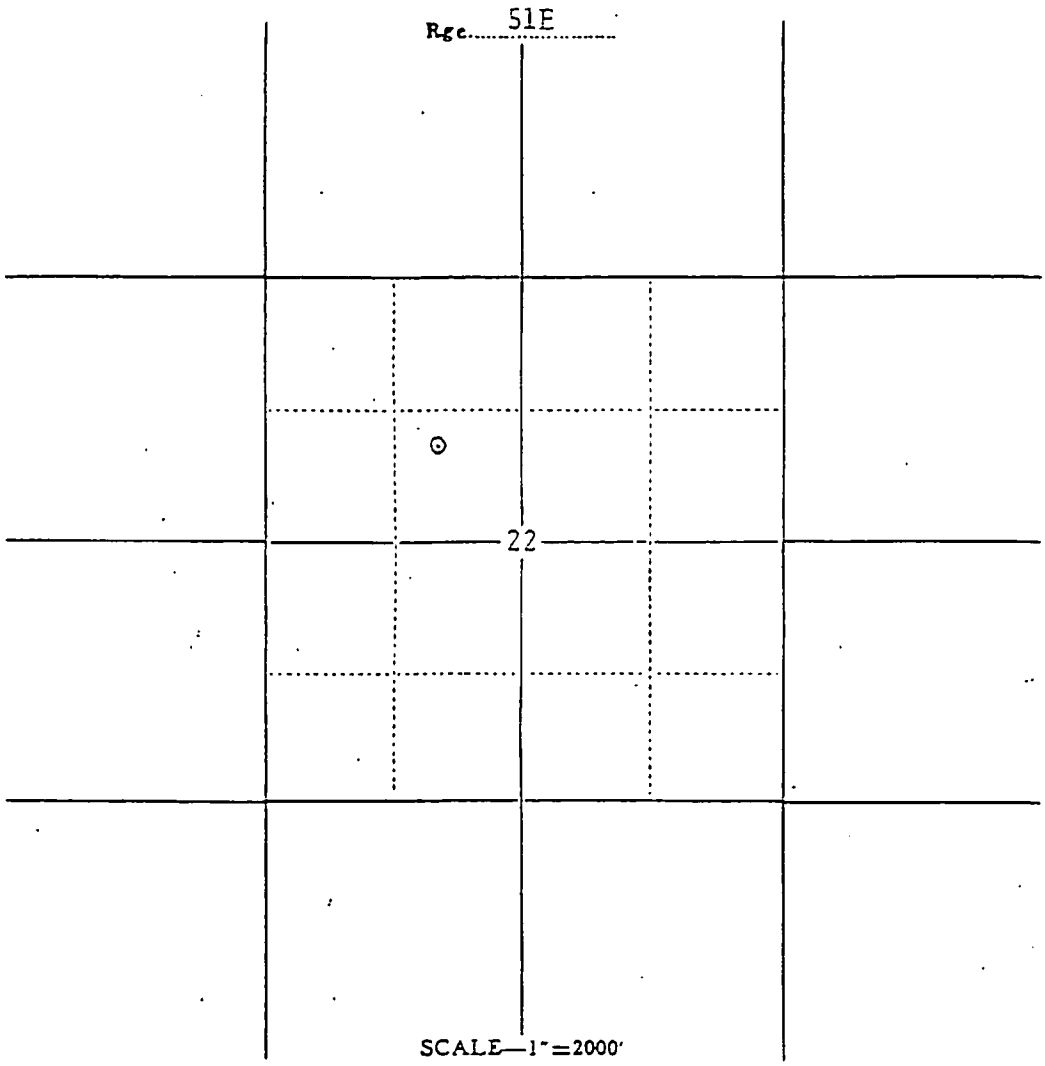
Form No. 2
File at
Billings
or Shelby

Rge. 51E

Form No. 2
File at
Billings
or Shelby

Locate
Well
Correctly

Twp. 28N



THE NOTICE OF INTENTION TO DRILL THIS WELL IS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:

1. Any person, before commencing the drilling of any oil or gas well or water source or injection well shall secure from the Board a drilling permit and shall pay to the Board the following amounts: for each well whose estimated depth is thirty-five hundred (3,500) feet or less: twenty-five dollars ($25.00); from thirty-five hundred and one (3,501) feet to seven thousand (7,000) feet, seventy-five dollars ($75.00); seven thousand and one (7,001) feet and deeper, one hundred fifty dollars ($150.00).

2. No well is to be spudded in unless the proper surety drilling bond has been posted and approved by the Board of Oil and Gas Conservation of the State of Montana.

3. Cable tool operators must construct an adequate sump to contain all mud and water bailed from the hole.

4. Surface or conductor casing must be properly cemented by an approved method and pressure tested to determine a tight bond with the surrounding formations in case an unexpected flow of oil, gas or water should be encountered, unless special permission has been granted for formation shut-off.

5. Any production casing must be cemented unless a formation shut-off or packer is approved by the Board. Sufficient cement must be used to protect the casing and all possible productive and fresh water bearing formations exposed in the process of drilling and not otherwise protected.

6. All production casing must be tested by bailing or pressure to determine if there is a tight bond with the surrounding formations or possible leaks in the casing. The results of the test must be reported on Form No. 2, said report to include the size, weight, thread and length of casing, amount of cement used, and date work is done. If test shows failure, the defect must be corrected before any drilling operations are resumed.

7. Any contemplated change in status of a well such as to plug and abandon, deepen, plug back, redrill, alter casing, etc. must be presented on Form No. 2 for approval by the Board prior to commencement of work.

8. A satisfactory drilling record must be kept for each tour, showing top and thickness of each and all formations drilled and all other information of value, one copy of which is to be kept at the rig while drilling is in progress for examination by any authorized agent of the Board.

9. All producing wells must be marked with name of the operator, number of the well and location, using reasonable precautions to preserve these markings at all times.

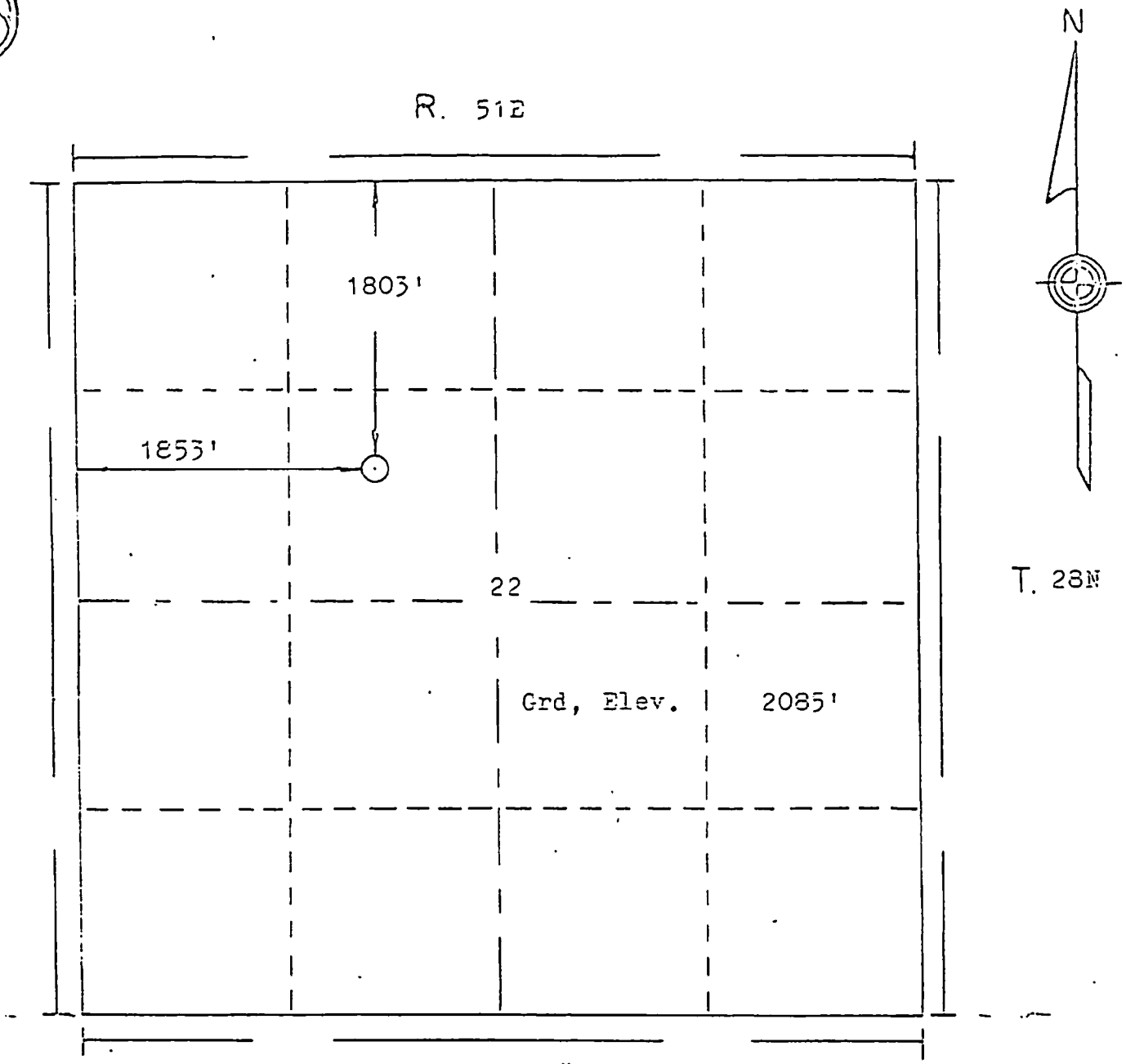
10. Delivery to the Board of two copies of all surveys, reports, analyses, logs, tests, samples and core descriptions, etc., as described in Rule 230 and one copy of all cementing records as furnished by the cementing company and described in Rule 234.

11. All work must be done in conformity with the regulations of the Board of Oil and Gas Conservation of the State of Montana, as contained in "General Rules and Regulations," and amendments thereto, as well as regulations prescribed in lieu thereof.

MAR02-0039

MAR-39

FORM F-106



Scale··· 1" = 1000'

Powers Elevation of Denver, Colorado
has in accordance with a request from Joe Kagie
for Texas Oil & Gas
determined the location of Buckles S.W.D. #1
to be 1803'fN 1853'fW Section 22 Township 28N
Range 51E of the Montana prinicipal Meridian
Roosevelt County, Montana

I hereby certify that this plat is an
accurate representation of a correct
survey showing the location of
Buckles S.W.D. #1

MAR02-0040

Date: 6May81

Licensed Land Surveyor No MAR-40
State of Montana

Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE (See other instructions on reverse side)

Form approved. Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL [ ] GAS WELL [ ] DRY [ ] Other S.W. Disposal

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR: Texas Oil & Gas Corp.

3. ADDRESS OF OPERATOR: 2705 Montana Avenue, Suite 300, Billings, Montana 59101

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 1803' FNL, 1853' FWL
At top prod. interval reported below
At total depth 1803' FNL, 1853' FWL

14. PERMIT NO. | DATE ISSUED

5. Contract No. 14-20-0256-5066

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Austin R. Buckles

7. UNIT AGREEMENT NAME: N/A

8. FARM OR LEASE NAME: Buckles

9. WELL NO.: "SWD" #1

10. FIELD AND POOL, OR WILDCAT: N/A

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 22-T28N-R51E

12. COUNTY OR PARISH: Roosevelt

13. STATE: Montana

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
5-13-81	5-25-81	6-2-81	2085' GR	2086'

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
960'	850'		→	Surf → TD	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
785' - 846'; Judith River

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: CBL, GR, CCL

27. WAS WELL CORED: No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
7"	17#	960	8 3/4"	1310 Sacks	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8"	680'	685'

31. PERFORATION RECORD (Interval, size and number)
785' - 90'; 0.41"; 21
794' - 97'; 0.41"; 13
807' - 11'; 0.41"; 17
822' - 24'; 0.41"; 9
839' - 46'; 0.41"; 29

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
785' - 846'	500 gal 15% acid

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
6-16-81	Injection-with pump	Active Injection

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
6-16-81	1	2"	→			222	

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
650		→			3.7 bbl/min	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY: Jeff Dyke

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED H. J. Kagie TITLE Drilling Engineer DATE 6-18-81

*(See Instructions and Spaces for Additional Data on Reverse Side)

MAR02-0041

MAR-41

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal *and/or State office.* See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core *analysis, all types electric, etc.*), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be *separately* produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Judith River	776	T.D.	Saline Water

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH

LOCATE WELL CORRECTLY

Form No. 4
(Gen. Rule 206.3 and 230)

(SUBMIT IN TRIPLICATE)
TO
BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

COMPLETION REPORT

npany Texas Oil & Gas Corp. Lease Buckles "SWD" Well No. 1
2705 Montana Avenue, Suite 300
dress Billings, MT 59101 Field (or Area) E. Poplar

: well is located 1803 ft. from (N) line and 1853 ft. from (W) line of Sec. 22

22 ; T. 28N ; R. 51E ; County Roosevelt ; Elevation 2085' GL (D.F., R.B. or G.L.)

nmenced drilling 5-13, 19 81; Completed 5-25, 19 81

The information given herewith is a complete and correct record of the well. The summary on this page is for the condition the well at the above date.

npleted as injection well (oil well, gas well, dry hole)

Signed H. J. Kagie
H.J. Kagie
Title Drilling Engineer
Date June 18, 1981

IMPORTANT ZONES OF POROSITY

(denote oil by O, gas by G, water by W; state formation if known)

m 776 to T.D.; W; Judith River From to
m to From to
m to From to
m to From to

CASING RECORD

Size Casing	Weight Per Ft.	Grade	Thread	Casing Set	From	To	Sacks of Cement	Cut and Pulled from
7"	17#	J-55	8rd	960'	Surf.	960'	1310	

TUBING RECORD

Size Tubing	Weight Per Ft.	Grade	Thread	Amount	Perforations
2 7/8"	6.5#	J-55	8rd	677'	

COMPLETION RECORD

tary tools were used from surface to total depth
ble tools were used from to
tal depth 960 ft.; Plugged back to 850' T.D.; Open hole from to

PERFORATIONS			ACIDIZED, SHOT, SAND FRACED, CEMENTED			
Interval From	Interval To	Number and Size and Type	Interval From	Interval To	Amount of Material Used	Pressure
785	790	4 JSPF w/				
794	797	2 1/8" expen.				
807	811	tbg. gun. (0.41")				
822	824					
839	846					

(If P&A show plugs above)

INITIAL PRODUCTION

injecting into Judith River
ll is ~~producing from~~ (pool) formation.

3.7 barrels of ~~oil~~ wtr per minute ~~hours~~ at 650 psi tubing pressure
(pumping or flowing)

Mcf of gas per hours.
barrels of water per hours, or % W.C.

(OVER)

MAR02-0043

MAR-43

MAR02-0044

INITIAL PRODUCTION—(Continued)

itial 10-day average production _____ (bbl./day) (if taken)
essures (if measured): Tubing 650 psi ~~flowing;~~ _____ psi shut-i
Casing _____ psi flowing; _____ psi shut-i
ravity _____ ° API (corrected to 60° F.)

DRILL STEM TESTS

D.S.T. No.	From	To	Tool Open (Min.)	Shut-In	F.P.	S.I.P.	Recovery	Cushion

CORES

No.	Interval	Recovered

LOG RUNS

Type	From	To
CBL	910'	0'
GR, CCL	850'	0'

FORMATION RECORD

(Need not be filled out if Geologist sample description filed with Commission)

From	To	SAMPLE AND CORE NO. AND DESCRIPTION	Top of Formation

(Use additional sheets where needed to complete description)

MAR-44

CORES

No.	Interval	Recovered

LOG RUNS

Type	From	To
CBL	910'	0'
GR, CCL	850'	0'

FORMATION RECORD

(Need not be filled out if Geologist sample description filed with Commission)

From	To	SAMPLE AND CORE NO. AND DESCRIPTION	Top of Formation

(Use additional sheets where needed to complete description)

MAR-44

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Contract No.
5. ~~LEASE DESIGNATION AND SERIAL NO.~~
14-20-0256-5066

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Austin R. Buckles

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

U. S. Geological Survey
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MAY 8 1981
Billings, Montana

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [ ] OTHER S.W. Disposal SINGLE ZONE [X] MULTIPLE ZONE [ ]

7. UNIT AGREEMENT NAME: N/A

8. FARM OR LEASE NAME: Buckles

2. NAME OF OPERATOR: Texas Oil & Gas Corp.

9. WELL NO.: "SWD" #1

3. ADDRESS OF OPERATOR: Suite 300, 2705 Montana Avenue, Billings, Montana 59101

10. FIELD AND POOL, OR WILDCAT: N/A

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1803' FNL, 1853' FWL
At proposed prod. zone: 1803' FNL, 1853' FWL

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 22-T28N-R51E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approximately 6 miles NNE of Poplar, Montana

12. COUNTY OR PARISH: Roosevelt

13. STATE: Montana

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 483'

16. NO. OF ACRES IN LEASE: 160

17. NO. OF ACRES ASSIGNED TO THIS WELL: 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.:

19. PROPOSED DEPTH: 950

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 2085' GR

22. APPROX. DATE WORK WILL START*: May 11, 1981

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8 3/4"	7"	17#	950'	250 sxs

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.
SIGNED R. L. Becker TITLE Project Manager DATE 5-8-81

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY [signature] TITLE DISTRICT SUPERVISOR DATE 5-8-81

CONDITIONS OF APPROVAL, IF ANY:

MAR02-0045

MAR-45

TEXAS OIL & GAS CORP.
MULTIPOINT SURFACE USE AND OPERATIONS PLAN

DATE: January 15, 1981

WELL NAME: Buckles

LOCATION: 1803 ' FNL, 1853' FWL, Section 22-T28N-R51E, Roosevelt Co., Montana

1. EXISTING ROADS

A. Proposed well site as staked. Refer to Exhibit 1. The well has been staked 1803' FNL and 1853' FWL of Section 22-T28N-R51E.

B. Route and distance from nearest town or locatable reference point to where proposed access route leaves main road: From Poplar, east on Highway 2 approximately 4.5 miles to Flaxville blacktop road. Turn north, proceed 4.5 miles to section road. Turn west, proceed 2.0 miles to section road. Turn north for 0.5 mile to drill site access road. The proposed drill site access road proceeds east for 0.38 mile, then 0.13 mile north.

C. Access route to location color coded in red and labeled. Refer to Map 2.

D. For development well, all existing roads within one mile color coded in yellow. Refer to Map 1.

E. Plans for improvement and maintenance of existing roads: The roads leading to the access road are well traveled. The road from Highway 2 is a blacktop county road. The section roads are graded, gravelled and well traveled. Only the access road will require any maintenance. During wet periods, some maintenance may be required to allow travel by drilling rigs and well service vehicles. During dry periods, wetting the access road may be required for dust suppression.

2. PLANNED ACCESS ROAD

Show all necessary roads to be constructed or reconstructed: An access road approximately 0.5 mile long will be constructed from the west section line of Section 22-T28N-R51E. The road will follow the center line of the Section east to the SE/4, NW/4 section line then north to the drill site. The road will be 18-20 feet wide, with minimal grade. No drainages will be crossed. If the well is commercially productive, the road will be bar-ditched and crowned to facilitate drainage.

3. LOCATION OF EXISTING WELLS

Map 3 is a one-mile radius locating and identifying the following:

A. Water Wells - None
B. Abandoned Wells - None
C. Temporarily Abandoned Wells - None

MAR02-0046

D. Disposal Wells - None
E. Drilling Wells - None
F. Producing Wells - Mesa 1-22 Biere, Sec. 22-T28N-R51E
Juniper #1-21 Poplar, Sec. 21-T28N-R51E
Murphy Oil Unit #22, Sec. 14-T28N-R51E
Murphy Oil Unit #55, Sec. 23-T28N-R51E
G. Shut-In Wells - None
H. Injection Wells - Mesa, Sec. 22-T28N-R51E
I. Monitoring or Observation Wells for Other Reasons - None

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

A. Map 3 is a one-mile radius locating the following existing facilities owned by the lessee/operator:

1. Tank Batteries - None
2. Production Facilities - None
3. Oil Gathering Lines - None
4. Gas Gathering Lines - None
5. Injection Lines - None
6. Disposal Lines - NOne

B. If new facilities are contemplated, in the event of production show:

1. Proposed location and attendant lines by flagging them off the well pad. Refer to Exhibit 1.

2. Dimensions of facilities. Refer to Exhibit 2.

3. Construction methods and materials: Water production will be contained in a bar production pit according to NTL-2B specifications. A production unit will be set. All connection work will be done by an oilfield service company using standard oilfield materials.

4. Protective devices and measures to protect livestock and wildlife: The burn pit will be fenced with small mesh wire and flagged to protect animals. The reserve pit will be fenced to protect animals until it can be properly restored. The reserve pit will be fenced on three sides while drilling and on the fourth side after the rig moves off location.

5. LOCATION AND TYPE OF WATER SUPPLY

A. Location and type of water supply: Water for drilling purposes will be purchased and hauled from a commercial water hauler. If additional state or federal permits are required, they will obtained from the appropriate Montana State authority, or the BLM Resource Area Headquarters.

B. Method of transporting water: Water will be transported via truck over the access road described above. No new roads will be required.

C. If water well is to be drilled, so state: No water well is contemplated.

6. SOURCES OF CONSTRUCTION MATERIALS

A. Show information either on map or by written description: It is not anticipated that any materials for construction will be required beyond materials from the minimal cut on the location.

B. Identify it from Federal or Indian Land: The surface is owned by Austin R. Buckles.

C. Describe where materials such as sand, gravel, stone and soil material are to be obtained and used: None to be transported.

D. Show any needed access roads crossing Federal or Indian lands. Refer to Map 1.

7. METHODS OF HANDLING WASTE DISPOSAL

A. Cuttings will be separated by screen and gravity and contained in metal tanks and/or a small earthen pit to be located on the existing location.

B. Drilling fluids to be contained in metal tanks and trucked out upon completion of the well.

C. Produced fluids: N.A.

D. Sewage - Portable toilet will be provided.

E. Garbage will be placed in a trash pit, fenced and covered with small mesh wire for burning and burial after completion of the well.

F. Statement regarding proper cleanup when rig moves out. When the rig moves out, all trash and surface refuse will be disposed of by burial in the trash pit or by removal from the location.

8. ANCILLARY FACILITIES

Identify all proposed camps and airstrips on a map as to their location, area required and construction methods: None planned.

9. WELL SITE LAYOUT ATTACHMENT AND PROPOSED RIG LAYOUT

A. Cross-section and plan view of drill pad Refer to Exhibit 3.

B. Location of mud tank, burn pit, trash pit, and pipe racks: Refer to Exhibit 4.

C. Rig orientation, parking area: Refer to Exhibit 4.

D. Statement regarding pit lining: N.A.

10. PLANS FOR RESTORATION OR SURFACE

A. Backfilling, levelling, contouring and waste disposal: This work will be done as approved in the NTL-6 for the Buckles "A" #1.

B. Revegetation and rehabilitation: This work will be done as approved in the NTL-6 for the Buckles "A" #1.

C. Pit fencing: This work will be done as approved in the NTL-6 for the Buckles "A" #1.

D. Oil on pit: This work will be done as approved in the NTL-6 for the Buckles "A" #1.

E. Time for commencement and completion of the rehabilitation operations: This work will be done as approved in the NTL-6 for the Buckles "A" #1.

11. OTHER INFORMATION

General description of:

A. Topography, soil characteristics, geologic features, flora, fauna: The proposed well site is located in a flat wheat field. The land slopes slightly to the west from the drill site, toward the Poplar River. The land is currently being cultivated. The nearest water source is the Poplar River, approximately 2 miles west. In addition, there are numerous intermittent (drainage) streams that follow a low ridge 0.5 mile to the east. The ridge runs north-south and has an elevation of about 80-120 feet above the elevation of the well pad. Dominant fauna includes rabbits, small mammals, small and raptorial birds, and rodents.

B. Other surface-use activities: The surface is privately-owned by Austin R. Buckles; it is currently being farmed by the Buckles family. Texas Oil & Gas Corp. will execute a surface damage agreement with Mr. Buckles after the amount of surface disturbance is determined. This determination will not take place until the joint on-site inspection.

C. Proximity of water, occupied dwellings, archeological, historical or cultural sites: The Poplar River is located approximately 2.0 miles west of the drill site; in addition, there are a number of intermittent streams east of the drill site. There is a ranch house located approximately 0.6 mile south-southwest of the drill site. The Bureau of Indian Affairs has conducted an environmental survey of the area and has determined that since the drill site is located in an active agricultural area, that any archeological, historical, or cultural values would have been destroyed or disturbed. Therefore, an archeological survey will not be required.

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JAN 21 1981
Billings, Montana

12. LESSEE'S OR OPERATOR'S REPRESENTATIVES

Include the name, address and phone number of the lessee's or operator's field representative who is responsible for assuring compliance with the approved surface use and operations plan.

Ronald Becker
Leo Heath - 406/656-9917 - Residence
Texas Oil & Gas Corp.
2705 Montana Ave., Suite 300
Billings, Montana 59101
406/248-4330 - Business

13. CERTIFICATES

The following statement is to be included in the plan and must be signed by the lessee's or operator's field representative who is identified in Item No. 12 of the plan.

I hereby certify that I, or persons under by direct supervision have inspected the proposed drill site and access roads; that I am familiar with the conditions which presently exist; and that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Texas Oil & Gas Corp. and its contractors, subcontractors in conformity with this plan and the terms and conditions under which it is approved.

DATE: 5/8/81

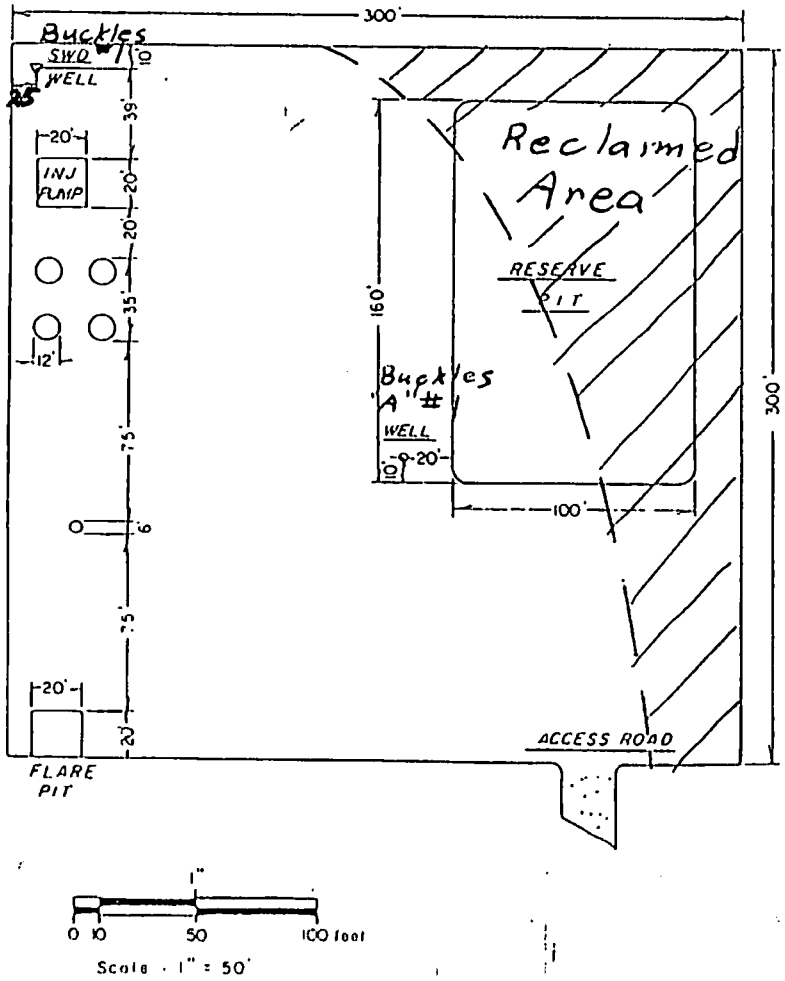
R Becker
Ronald Becker
Project Manager

MAR02-0050

MAR-50

Exhibit #2

BUCKLES
PLOT PLAN



TEXAS OIL & GAS CORP.
BILLINGS DISTRICT

PLOT PLAN FOR DRILLING SITE

ENGR
L.H.

3-9-81

MAR02-0051

MAR-51

Texas Oil & Gas Corp
Buckles "SWD" #1
Plan View of Drill Pad

Exhibit 3

U. S. Geological Survey
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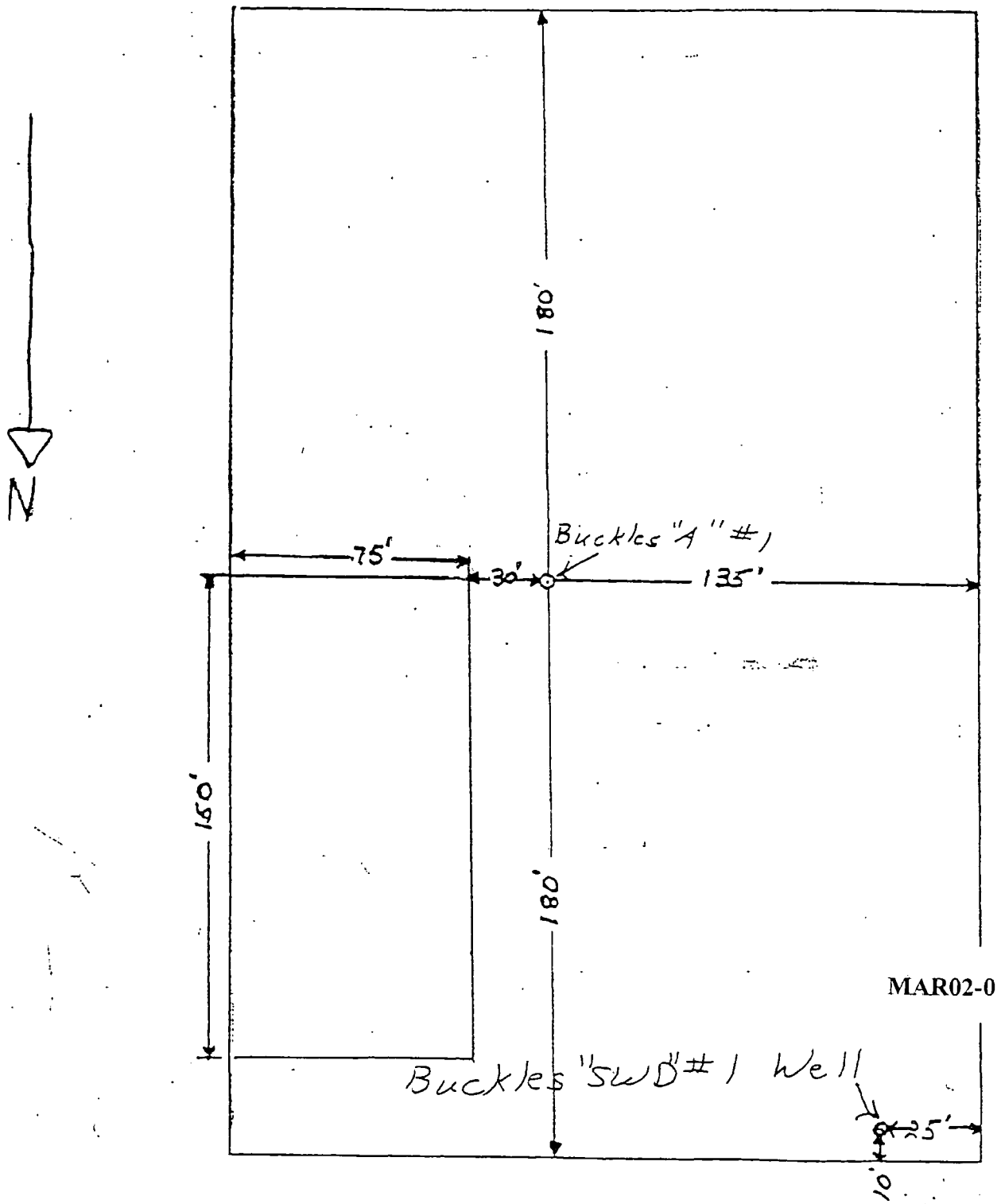
Billings, Montana



MAR02-0052

MAR-52

Texas Oil & Gas - Corpo
Buckles "SWD" #1
Rig Layout

Exhibit 4

U. S. Geological Survey
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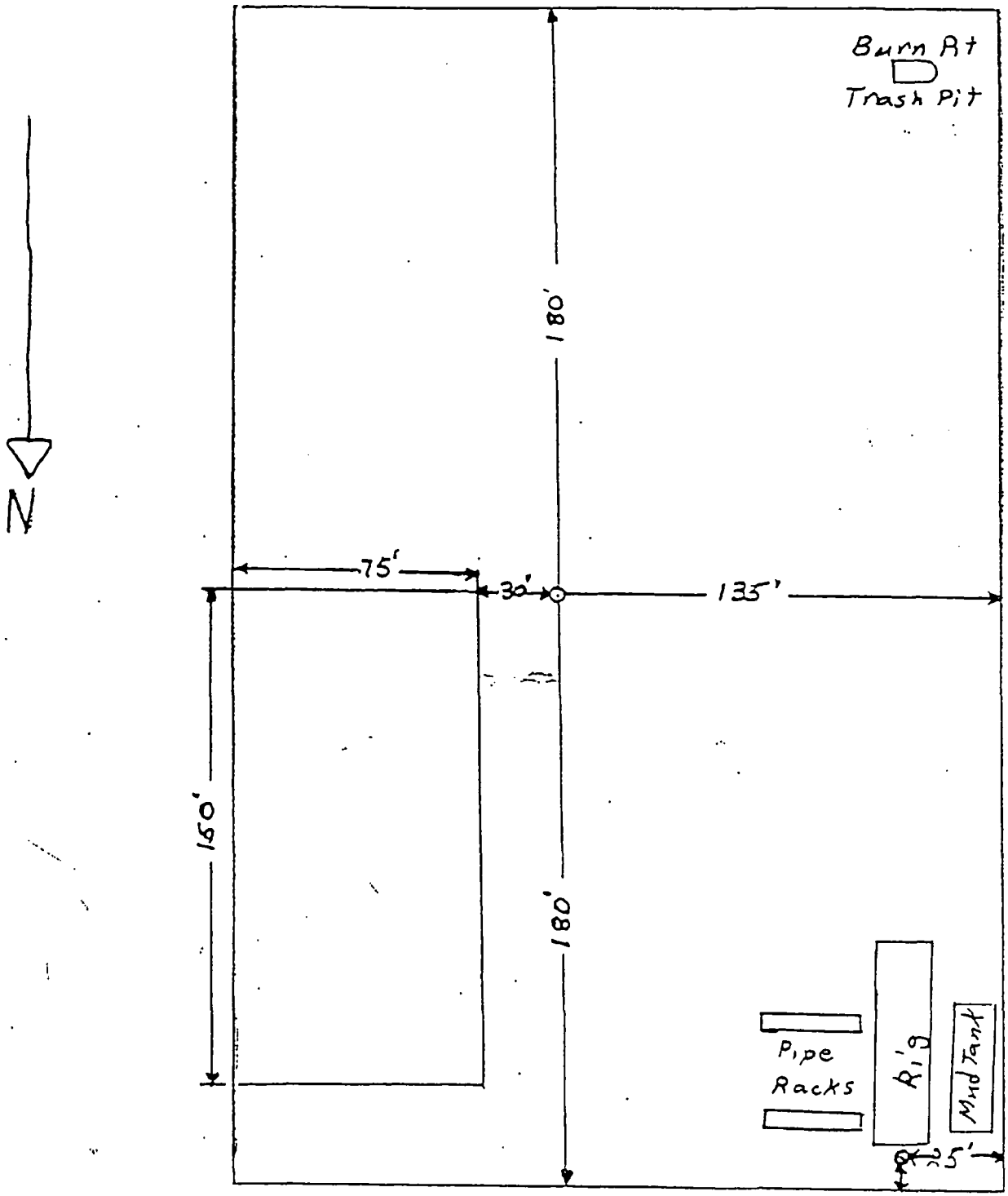
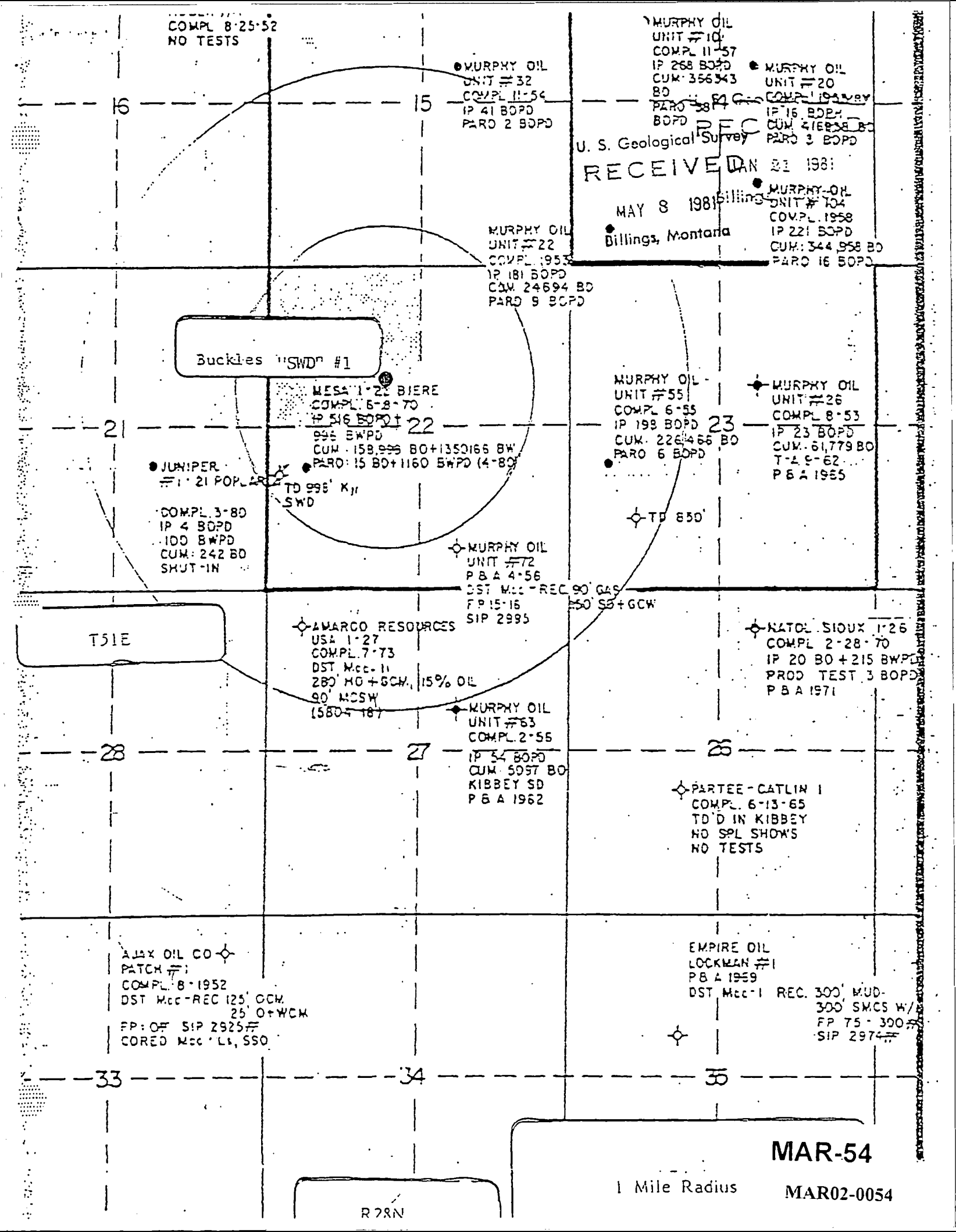
Billings, Montana




COMPL 8-25-52
NO TESTS
MURPHY OIL
UNIT #32
COMPL 11-54
IP 41 BOPD
PARO 2 BOPD
MURPHY OIL
UNIT #10
COMPL 11-57
IP 268 BOPD
CUM 356343
BO
PARO 38
BOPD
MURPHY OIL
UNIT #20
IP 16 BOPD
CUM 476938 BO
PARO 3 BOPD
U. S. Geological Survey
RECEIVED
JAN 21 1981
Billings
MAY 8 1981
Billings, Montana
MURPHY OIL
UNIT #104
COMPL 1958
IP 221 BOPD
CUM 344,958 BO
PARO 16 BOPD
MURPHY OIL
UNIT #22
COMPL 1953
IP 181 BOPD
CUM 24694 BO
PARO 9 BOPD
16
15
Buckles "SWD" #1
MESA 1-22 BIERE
COMPL 6-8-70
IP 516 BOPD
996 BWPD
CUM 158,996 BO+1350166 BW
PARO: 15 BO+1160 BWPD (4-80)
MURPHY OIL
UNIT #55
COMPL 6-55
IP 198 BOPD
CUM 226466 BO
PARO 6 BOPD
MURPHY OIL
UNIT #26
COMPL 8-53
IP 23 BOPD
CUM 61,779 BO
T-A 9-62
P & A 1965
21
22
23
JUNIPER
#1-21 POPLAR
TD 998' K
SWD
COMPL 3-80
IP 4 BOPD
100 BWPD
CUM: 242 BO
SHUT-IN
TD 850'
MURPHY OIL
UNIT #72
P & A 4-56
DST Mcc-REC 90' GAS
FP 15-16
SIP 2995
50' SO+GCW
T51E
AMARCO RESOURCES
USA 1-27
COMPL 7-73
DST Mcc-11
280' HO+GCW, 15% OIL
90' MCSW
(5804-18)
NATOL SIOUX 1-26
COMPL 2-28-70
IP 20 BO+215 BWPD
PROD TEST 3 BOPD
P & A 1971
MURPHY OIL
UNIT #63
COMPL 2-55
IP 54 BOPD
CUM 5097 BO
KIBBEY SD
P & A 1962
28
27
26
PARTEE-CATLIN 1
COMPL 6-13-65
TD'D IN KIBBEY
NO SPL SHOWS
NO TESTS
AJAX OIL CO
PATCH #1
COMPL 8-1952
DST Mcc-REC 125' GCW
25' O+WCW
FP: 0# SIP 2925#
CORED Mcc-Ls, SSO
EMPIRE OIL
LOCKMAN #1
P & A 1959
DST Mcc-1 REC. 300' MUD-
300' SMCS W/
FP 75-300#
SIP 2974#
33
34
35
MAR-54
1 Mile Radius
MAR02-0054
R 28N

PETROLEUM CHEMICALS DIVISION
VISCO CHEMICALS

NALCO CHEMICAL COMPANY
POST OFFICE BOX 1806 □ DICKINSON, NORTH DAKOTA 58601 □ AREA 701-264-7272

TEXAS OIL & GAS CORP.
BILLINGS DISTRICT
JAN 12 1982

January 11, 1982

Mr. Tom Croft
TXO Oil & Gas
2705 Montana Avenue
Suite 300
Billings, Montana 59101

Mr. Croft:

SUBJECT: BUCKLES A #1 SWD CORROSION COUPON REPORT

Recently, the corrosion coupon at the Buckles A #1 Salt Water Disposal which had been installed on September 10, 1981, was changed and sent in for analysis. Please find attached the corrosion coupon report which shows a severe localized type of corrosion taking place. At present, a scale inhibitor is being continuously injected into the Buckles A #1 treater.

RECOMMENDATION: Nalco recommends that Visco 3901, a combination water soluble corrosion inhibitor and scale inhibitor, be continuously injected in place of the present scale inhibitor at the Buckles A #1 treater to protect treater bottoms, lines, injection equipment, and injection well against both scale and localized corrosion. With the use of Visco 3901 at the rate of 60 ppm (one (1) quart per 100 barrels water) initially, protection against scaling and corrosion will be achieved.

Nalco will continue to monitor the corrosion rates by the use of corrosion coupons to ensure that proper protection is being achieved. If you should have any questions concerning this matter, please contact me at your convenience.

Thank you, Tom, for using Nalco Chemicals.

Respectfully,

Dale J. Kasowski

Dale J. Kasowski
District Salesman
Williston, North Dakota

DJK/mg

MAR02-0055

Enclosure: Report #81C-1260 & Visco 3901 Tech Data Sheet

cc: T. Lainen
M. Olson

MAR-55

PETROLEUM CHEMICALS DIVISION
VISCO CHEMICALS

NALCO CHEMICAL COMPANY
POST OFFICE BOX 1806 □ DICKINSON, NORTH DAKOTA 58601 □ AREA 701-234-7272

December 21, 1981

TEXAS OIL & GAS CORP.
BILLINGS DISTRICT
DEC 22 1981

Mr. Tom Croft
Texas Oil & Gas
2705 Montana Avenue
Suite 300
Billings, Montana 59101

Dear Mr. Croft:

SUBJECT: BUCKLES PARAFFIN PROBLEM

Paraffin can cause problems in oil treating and heavy bottoms in production tanks. Upon visiting with Mr. Tom Lainen, it is found that extremely heavy bottoms (paraffin) were found in the production tanks which made it extremely difficult to sell the oil. Treater cut was checked and it was found that 2% paraffin was being carried over to the production tank.

RECOMMENDATION: Nalco recommends that Visco 4480, the emulsion breaker presently being used at the Buckles A #1, be substituted with Visco 4433, a combination emulsion breaker, paraffin control chemical to help in treating of heavy bottoms in the production tank. Visco 4433 has proven extremely successful in the past in helping keep bottoms loose so that recycling will eliminate any free water being held up.

If you should have any questions concerning this matter, please contact me at your convenience.

Thank you, Tom, for using Nalco Chemicals.

Respectfully,

Dale J. Kasowski

Dale J. Kasowski
District Salesman
Williston, North Dakota

DJK/mg

cc: T. Lainen
M. Olson

MAR02-0056

MAR-56

NALCO

ANALYTICAL SERVICE LABORATORY REPORT
COUPON REPORT

Company TXO Oil and Gas
Address Poplar, Montana

Date 12/28/81
Report No. 81C-1260

COUPON LOCATION	PERIOD EXPOSED	CHEMICAL IN USE	COUPON NUMBER	CORROSION RATE (mpy)	TYPE OF CORROSION
Buckles A #1 SWD	9/10/81 to 12/22/81	None	01770	15.7	Localized

4cc: D. J. Kasowski
M. R. Olson

/cw

$$MPY = \frac{(\text{Area factor}) \times (\text{wt. loss in mg})}{(\text{Days exposure})}$$

One mpy = 0.001 inch per year

MAR02-0057

MAR-57

P. O. BOX 87 • SUGAR LAND, TEXAS 77478

FORM S-4

NALCO trademarks of Nalco Chemical Company.

NALCO CHEMICAL COMPANY
REGIONAL ANALYTICAL LABORATORIES
2111 E. Dominguez St. Carson, CA 90745
6216 W. 66th Place Chicago, Illinois 60638
Box 16A Paulsboro, NJ 08066
Box 87 Sugar Land, TX 77478

TEXAS OIL & GAS CORP.
2705 MONTANA AVENUE · SUITE 300
406 · 248 · 4330
BILLINGS, MONTANA 59101

May 11, 1981

Juniper Petroleum Corp.
Ste. 2410, Lincoln Center
1660 Lincoln St.
Denver, CO 80264

Attn: Bob Jarrett, Vice President-Land

Dear Sir:

As per our telephone conversation of May 8, 1981, you were notified of our intention to dispose of produced water into the Judith River formation in the proposed Buckles "SWD" #1 well in the SE, NW, Sec. 22, T28N-R51E, Roosevelt County, Montana. It is our understanding from this conversation, that Juniper Petroleum Corp. does not intend to object to our disposal well plans. Attached is a copy of our Sundry Notice to the Montana Oil and Gas Commission.

I appreciate your assistance in this matter.

Sincerely,

TEXAS OIL & GAS CORP.

H. J. Kagie

H.J. Kagie
Drilling Engineer

HJK/blj

Enclosure

cc: File
Charles Maio, Montana Oil & Gas Commission
HJK

MAR02-0058

MAR-58

TEXAS OIL & GAS CORP.
2705 MONTANA AVENUE - SUITE 300
406 - 248 - 4330
BILLINGS, MONTANA 59101

May 11, 1981

Murphy Oil Corp.
200 Jefferson Ave., L
El Dorado, AR 71730

Attn: Alvin W. Simpson, Oper. Supr.

Dear Sir:

As per our telephone conversation of May 8, 1981, you were notified of our intention to dispose of produced water into the Judith River formation in the proposed Buckles "SWD" #1 well in the SE, NW, Sec. 22, T28N-R51E, Roosevelt County, Montana. It is our understanding from this conversation, that Murphy Oil Corp. does not intend to object to our disposal well plans. Attached is a copy of our Sundry Notice to the Montana Oil and Gas Commission.

I appreciate your assistance in this matter.

Sincerely,

TEXAS OIL & GAS CORP.

H.J. Kagie

H.J. Kagie
Drilling Engineer

HJK/blj

Enclosure

cc: File
Montana Oil & Gas Commission, Charles Maio
HJK

MAR-59

MAR02-0059

TEXAS OIL & GAS CORP.
2705 MONTANA AVENUE · SUITE 300
406 · 248 · 4330
BILLINGS, MONTANA 59101

May 11, 1981

Mesa Petroleum Co.
2800 Lincoln Center Bldg.
1660 Lincoln St.
Denver, CO 80203

Attn: Art Brewster, Division Land Manager

Dear Sir:

As per our telephone conversation of May 8, 1981, you were notified of our intention to dispose of produced water into the Judith River formation in the proposed Buckles "SWD" #1 well in the SE, NW, Sec. 22, T28N-R51E, Roosevelt County, Montana. It is our understanding from this conversation, that Mesa Petroleum Co. does not intend to object to our disposal well plans. Attached is a copy of our Sundry Notice to the Montana Oil and Gas Commission.

I appreciate your assistance in this matter.

Sincerely,

TEXAS OIL & GAS CORP.

H.J. Kagie

H.J. Kagie
Drilling Engineer

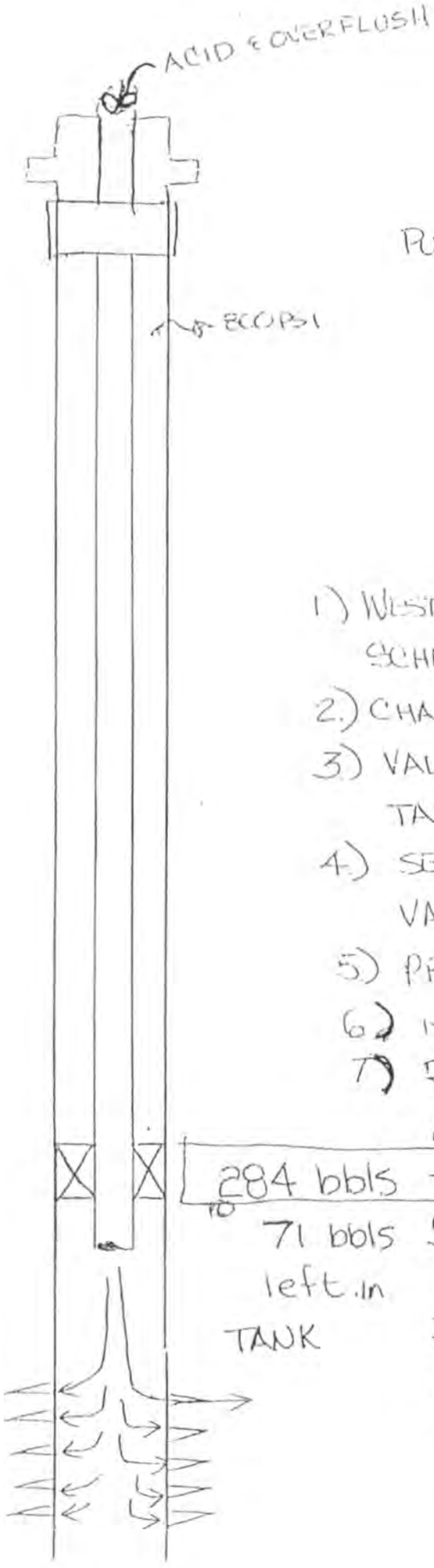
HJK/blj

Enclosure

cc: File
Charles Maio, Montana Oil & Gas Commission
HJK

MAR02-0060

MAR-60



ACID JOB
BUCKLES SWD #1

PUMP

1.) PREFLUSH W/ SALT WATER
2.) ACID JOB 500 gal (SPEAR-HEAD 15%)
3) 320 BBLS OVERFLUSH.

1) WESTERN ON LOCATION AT 10:15 AS SCHEDULED.
2.) CHAIN UP TRUCK TO GET THROUGH MUD
3) VALVE UP PUMP TRUCK TO SALT WATER TANK.
4.) SET PRESSURE TO 1000 PSI ON RELIEF VALVE (POP OFF TYPE)
5) PRESSURE UP BACKSIDE TO 800 PSI
6.) HOOK UP RECORDER ON TUBING.
7) RATE TAKING AT → 800 750 BROKE TO HELD AT ABOUT .2 BBL/MIN

284 bbls TOTAL PUMPED BBLS.

71 bbls left in TANK

5.4 BBLS WATER PRE FLUSH
1100 PSI 3.7 BBL/MIN
PRESSURE BREAK TO 650 PSI
PUMP LOAD IN AT 3.7 BBL/MIN
SINCE PUMP IS SO FAR FROM TANK
STAYED AT 600 POUNDS W/ 3.1 BBL/MIN
DROPPED TO 2 BBL/MIN
DROPPED 50 PSI TO 500 PSI
AT 1 BBL/MIN DROPPED 75 PSI TO 425 PSI.

CASING - 17#, 7", J-55
TUBING - 2 7/8"

file:
Buckles SWD #1

MAR02-0061

MAR-61

Buckles SWD 1 mt

BUCKLES SLTWR.
DISPOSAL #1
Film ✓
Sepia
Blue In. ✓

Smead
No. 1536G
HASTINGS, MN. LOS ANGELES
LOGAN, OH. McGREGOR, TX. U.S.A.

TXO-90

MAR02-0062
MAR-62

Form No. 2

NOTICE
THIS FORM BECOMES A PERMIT WHEN STAMPED APPROVED BY AN AGENT OF THE BOARD.

(SUBMIT IN QUADRUPLICATE)

TO

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA

BILLINGS OR SHELBY

ARM 36.22.307	ARM 36.22.1003
ARM 36.22.601	ARM 36.22.1004
ARM 36.22.602	ARM 36.22.1013
ARM 36.22.603	ARM 36.22.1301
ARM 36.22.604	ARM 36.22.1306
ARM 36.22.605	ARM 36.22.1309

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill		Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment	
Notice of Intention to Pull or Alter Casing		Supplementary Well History	
Notice of Intention to Abandon Well	XXXXX	Report of Fracturing	

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

May 21, 19 84

Following is a {notice of intention to do work / report of work done} on land {owned / leased} described as follows:

LEASE Buckles

MONTANA (State) Roosevelt (County) East Poplar (Field)

Well No. "SWD" #1 SE NW 22 (m. sec.) 28N (Township) 51E (Range) (Meridian)

The well is located 1803 ft. from {N / SX} line and 1853 ft. from {EX / W} line of Sec. 22

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is 2085'

READ CAREFULLY — DETAILS OF PLAN OF WORK — READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing.)

DETAILS OF WORK
RESULT

TXO Production Corp. proposes to P & A this well. During plugging operations, the existing perforations will be squeezed and the following plugs will be set:

Set 35 sxs cmt plug above perfs.
Set 30 sxs cmt plug @ surface.

Verbal approval was given by Claire Houghey at the Montana Board of Oil & Gas Conservation in Billings on 5-21-84.

MAR02-0063

Approved subject to conditions on reverse of form

Date JUN 18 1984
ORIGINAL COPY SIGNED BY:
By Claire F. Haughey, Field Supervisor
District Office Agent Title

Company TXO Production Corp.
By M. David Clouatre
M. David Clouatre
Title Drilling & Production Engineer
1800 Lincoln Center Building
Address Denver, CO 80264

BOARD USE ONLY
API WELL NUMBER
2 5
STATE COUNTY WELL

NOTE:—Reports on this form to be submitted to the appropriate District for approval

DRILLING PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL. UPON WRITTEN REQUEST PRIOR TO EXPIRATION DATE, ONE 90 DAY EXTENSION MAY BE GRANTED.

OVER

MAR-63

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

JUN 1984
Bureau of Land Management
Miles City, Montana

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 Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☐ other SWD Well

2. NAME OF OPERATOR
TXO Production Corp.

3. ADDRESS OF OPERATOR
1800 Lincoln Center Bldg., Denver, CO 80264

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1803' FNL & 1853' FWL (SE NW)
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same

5. LEASE
14-20-0256-5066 Ft. Peck

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Austin R. Buckles

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Buckles

9. WELL NO.
"SWD" #1

10. FIELD OR WILDCAT NAME

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 22, T28N-R51E

12. COUNTY OR PARISH: Roosevelt
13. STATE: Montana

14. API NO.
25-085-21336

15. ELEVATIONS (SHOW DF, KDB, AND WD)
2085' GL

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	☐	☐
FRACTURE TREAT	☐	☐
SHOOT OR ACIDIZE	☐	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☐	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☐	☐
ABANDON*	☐	☒
(other)		

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details

CONDITIONS OF APPROVAL:

Please be advised that final abandonment shall not be approved until the surface reclamation work required by the approved drilling permit or approved subsequent report of abandonment notice has been completed to the satisfaction of the surface management agency. Upon completion of reclamation work, the lessee or operator shall notify the Bureau of Land Management, Miles City District, Division of Minerals via Sundry Notice (form 3160-5) when the location is ready for inspection as per Operating Order # 1, Section V. Bond liability for the location shall not be terminated until approval of final abandonment by the Miles City BLM.

SIGNED M. David Clouatre TITLE Drlg & Prod Engineer June 1, 1984
M. David Clouatre

(This space for Federal or State office use)

APPROVED BY TITLE ADM-MINERALS DATE JUN 13 1984
CONDITIONS OF APPROVAL, IF ANY:

MAR02-0064

MAR-64

*See Instructions on Reverse Side

P & A - MONTANA

BUCKLES "SWD" #1
Roosevelt Co./22-28N-51E

05/24/84 SITP 240#, SICP 235#. RU Halliburton. Test lines to 2000#. Pump 20 bbls fresh wtr. Had 500# @ 4 BPM. Pump 25 sxs Cl "G" cmt. Flush w/ 5 bbls fresh wtr. Start to stage for squeeze. Couldn't obtain squeeze after 10 bbls fresh wtr pumped. Pump 25 sxs Cl "G" cmt. Flush w/ 5 bbls fresh wtr. Start to stage for squeeze. Obtain squeeze w/ 5.5 bbls total flush @ 1000#. SWI for 20 min. Bled press to 500#. SWI. SDFN. DW: 2900. CW: 2900.

05/26/84 RU Allison Rig #8. ND wellhead. NU BOP. Attempt to release pkr. No tension on tbg. TOOH w/ 2-7/8" tbg & Model "AD-1" pkr. TIH w/ tbg to 685'. RU Halliburton. Pump 35 sxs Cl "G" cmt from 685-615'. TOOH & LD tbg. Pump 30 sxs surf plug. RD Halliburton. ND BOP. RD Allison & RR @ 2 PM 5/25/84. Well P & A'd on 5/25/84. FINAL REPORT!!! DW: 8778. CW: 11,678.

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

JUN 1984
Bureau of Land Management
Miles City, Montana

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 Form 9-331-C for such proposals.)

1. LEASE: 14-20-0256-5066 Ft. Peck
2. INDIAN, ALLOTTEE OR TRIBE NAME: Austin R. Buckles
3. UNIT AGREEMENT NAME:
4. FARM OR LEASE NAME: Buckles
5. WELL NO.: "SWD" #1
6. FIELD OR WILDCAT NAME:
7. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 22, T28N-R51E
8. COUNTY OR PARISH: Roosevelt
9. STATE: Montana
10. API NO.: 25-085-21336
11. ELEVATIONS (SHOW DF, KDB, AND WD): 2085' GL

1. oil well ☐ gas well ☐ other SWD Well

2. NAME OF OPERATOR
TXO Production Corp.

3. ADDRESS OF OPERATOR
1800 Lincoln Center Bldg., Denver, CO 80264

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1803' FNL & 1853' FWL (SE NW)
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	☐	☐
FRACTURE TREAT	☐	☐
SHOOT OR ACIDIZE	☐	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☐	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☐	☐
ABANDON*	XX	☐
(other)		

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. 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.)*

TXO Production Corp. proposes to P & A this well. During plugging operations, the existing perforations will be squeezed and the following plugs will be set:

Set 35 sxs cmt plug above perfs.
Set 30 sxs cmt plug @ surf.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED M. David Clouatre TITLE Drlg & Prod. Engineer DATE June 1, 1984
M. David Clouatre

(This space for Federal or State office use)

APPROVED BY _____ TITLE ADM-MINERALS DATE JUN 13 1984
CONDITIONS OF APPROVAL, IF ANY:

MAR02-0066

MAR-66

*See Instructions on Reverse Side

WF

MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

OIL AND GAS CONSERVATION DIVISION

TO: TXO Production Corp.
Attn: M David Chastain
1800 Lincoln Center Bldg
Denver Colorado 80264

DATE 6-12-84
BY Ethel Lagers
OFFICE 2535 St. Johns Ave.
Billings, MT 59102

LEASE: Buckles SWD #1

LOCATION SE NW 22-28N-51E

COUNTY: Roosevelt

FIELD REPORTS:

I. Drilling, producing, and storage areas that require attention

		Well Head			Circulating pump			Sour Gas
		Pump Jack Unit			Drill Location			Flow Line
		Tank Battery			Reserve Pit			Pipe Line
		Fire Walls			Evaporation Pit			Brine Water Line
		Lease Dyke			Emergency Pit			Gas Flare
		Treater			Brine Water Tank			Pit Liner
		Treater Pit			Water Disposal System			Seismic Hole

OTHER

II. REQUIRED FORMS, REPORTS, AND DATA:

		Form #4 Completion Report			Water Analysis
		Form #2 Notice of Intent to Abandon			Change of Operator (Form #2)
		Form #2 Subsequent Report of Abandonment			Oil Spill (50 bbls. or more)
					Water Well Release (6 copies)
	✓	Geological Report (2 copies) (or tops)			Flow or Pipeline rupture
		Drill Stem Tests (2 copies)			Contamination, Stream - Reservoir
		Cement invoices (1 copy @)			Fire, Well-storage tank
	✓	Electric logs (2 copies each)			Follow-up Written Report

OTHER In order to remove this well from your bond we have to complete the file. The above requested data is required in order that we may complete it.

INDEX:

1. Breached
2. Condemned
3. Emergency Action
4. Fence
5. Leaking
6. No Scare Devices
7. No Well indintification sign
8. No Dry Hole Marker
9. Oil On Surface
10. Repair
11. Re-seed
12. Restoration (method used)
13. Request C.O.R.
14. Ruptured
15. Safety Guard
16. Soil Contamination
17. Sour Gas Sign Required
18. Syphon Trouble
19. Trash not buried
20. Unauthorized
21. Unsatisfactory
22. Venting
23. Water Flow
24. Install
25. Oil Spill
26. Delinquent
27. Approved

OTHER:

REPORT ACTION TAKEN TO:

MAR02-0067

MAR-67

Form No. 2

NOTICE
THIS FORM BECOMES A PERMIT WHEN STAMPED APPROVED BY AN AGENT OF THE BOARD.

(SUBMIT IN QUADRUPLICATE)
TO
BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

ARM 36.22.307	ARM 36.22.1003
ARM 36.22.601	ARM 36.22.1004
ARM 36.22.602	ARM 36.22.1013
ARM 36.22.603	ARM 36.22.1301
ARM 36.22.604	ARM 36.22.1306
ARM 36.22.605	ARM 36.22.1309

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill		Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment SWD	XXXX
Notice of Intention to Pull or Alter Casing		Supplementary Well History	
Notice of Intention to Abandon Well		Report of Fracturing	

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

May 29, 19 84

Following is a {notice of intention to do work / report of work done} on land {owned / leased} described as follows:

LEASE Buckles

MONTANA (State) Roosevelt (County) East Poplar (Field)

Well No. "SWD" #1 SE NW (m. sec.) 22 (Township) 28N (Range) 51W (Meridian)

The well is located 1803 ft. from {N / XSX} line and 1853 ft. from {XXXX / W} line of Sec. 22

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is 2085'.

READ CAREFULLY — DETAILS OF PLAN OF WORK — READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing.)

DETAILS OF WORK
RESULT

The well was plugged on 5-25-84. The well history of the plugging operations is attached. The following is a summary of the cement plugs:

1. 50 sxs cmt through perfs (785'-846').
2. 35 sxs cmt 685'-615'.
3. 30 sxs cmt @ surface.

Casing was cutoff below surface.

MAR02-0068

LOCATION INSPECTED & APPROVED

Approved subject to conditions on reverse of form

Date JUN 18 1984
ORIGINAL COPY SIGNED BY:
By Claire F. Haughey, Field Supervisor
District Office Agent — Title

Company TXO Production Corp.
By M. David Clouatre
Title Drilling & Production Engineer
Address 1800 Lincoln Center Building, Denver, CO 80264

BOARD USE ONLY
API WELL NUMBER
25 — STATE — COUNTY — WELL

NOTE:—Reports on this form to be submitted to the appropriate District for approval

DRILLING PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL. UPON WRITTEN REQUEST PRIOR TO EXPIRATION DATE, ONE 90 DAY EXTENSION MAY BE GRANTED.

OVER

MAR-68

P & A - MONTANA

BUCKLES "SWD" #1
Roosevelt Co./22-28N-51E

05/24/84 SITP 240#, SICP 235#. RU Halliburton. Test lines to 2000#. Pump 20 bbls fresh wtr. Had 500# @ 4 BPM. Pump 25 sxs Cl "G" cmt. Flush w/ 5 bbls fresh wtr. Start to stage for squeeze. Couldn't obtain squeeze after 10 bbls fresh wtr pumped. Pump 25 sxs Cl "G" cmt. Flush w/ 5 bbls fresh wtr. Start to stage for squeeze. Obtain squeeze w/ 5.5 bbls total flush @ 1000#. SWI for 20 min. Bled press to 500#. SWI. SDFN. DW: 2900. CW: 2900.

05/26/84 RU Allison Rig #8. ND wellhead. NU BOP. Attempt to release pkr. No tension on tbg. TOOH w/ 2-7/8" tbg & Model "AD-1" pkr. TIH w/ tbg to 685'. RU Halliburton. Pump 35 sxs Cl "G" cmt from 685-615'. TOOH & LD tbg. Pump 30 sxs surf plug. RD Halliburton. ND BOP. RD Allison & RR @ 2 PM 5/25/84. Well P & A'd on 5/25/84. FINAL REPORT!!! DW: 8778. CW: 11,678.

Form No. 2

NOTICE
THIS FORM BECOMES A PERMIT WHEN STAMPED APPROVED BY AN AGENT OF THE BOARD.

(SUBMIT IN QUADRUPLICATE)
TO
BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

ARM 36.22.307 ARM 36.22.1003
ARM 36.22.601 ARM 36.22.1004
ARM 36.22.602 ARM 36.22.1013
ARM 36.22.603 ARM 36.22.1301
ARM 36.22.604 ARM 36.22.1306
ARM 36.22.605 ARM 36.22.1309

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill		Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment	
Notice of Intention to Pull or Alter Casing		Supplementary Well History Formation Tops	XXXXX
Notice of Intention to Abandon Well		Report of Fracturing	

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

July 7, 19 84

Following is a {notice of intention to do work / report of work done} on land {owned / leased} described as follows:

LEASE Buckles

MONTANA (State) Roosevelt (County) East Poplar (Field)

Well No. "SWD" #1 22 (m. sec.) 28N (Township) 51E (Range) (Meridian)

The well is located 1803 ft. from {N / S} line and 1853 ft. from {E / W} line of Sec. 22

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is 2085'

READ CAREFULLY — DETAILS OF PLAN OF WORK — READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing.)

DETAILS OF WORK
RESULT

The formations & tops are as follows:

Bear Paw	Surface
Judith River	776' KB
TD	960' KB

MAR02-0070

Approved subject to conditions on reverse of form

Date JUL 13 1984
ORIGINAL COPY SIGNED BY:
By Claire F. Haughey, Field Supervisor
District Office Agent Title

Company TXO Production Corp.
By M. David Clouatre
Title Drilling & Production Engineer
Address 1800 Lincoln Center Building
Denver, Colorado 80264

BOARD USE ONLY
API WELL NUMBER
25
STATE COUNTY WELL

NOTE:—Reports on this form to be submitted to the appropriate District for approval
DRILLING PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL. UPON WRITTEN REQUEST PRIOR TO EXPIRATION DATE, ONE 90 DAY EXTENSION MAY BE GRANTED.

OVER

MAR-70

Locate well by footage measurement from legal subdivision (Section) line and nearest drilling or producible well, if any.

Form No. 2
File at
Billings
or Shelby

Rge.....

Form No. 2
File at
Billings
or Shelby

Locate
Well
Correctly

Twp.....

SCALE—1"=2000'

THE NOTICE OF INTENTION TO DRILL THIS WELL IS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:

1. Any person, before commencing the drilling of any oil or gas well or water source or injection well shall secure from the Board a drilling permit and shall pay to the Board the following amounts: for each well whose estimated depth is thirty-five hundred (3,500) feet or less, twenty-five dollars ($25.00); from thirty-five hundred and one (3,501) feet to seven thousand (7,000) feet, seventy-five dollars ($75.00); seven thousand and one (7,001) feet and deeper, one hundred fifty dollars ($150.00).

2. No well is to be spudded in unless the proper surety drilling bond has been posted and approved by the Board of Oil and Gas Conservation of the State of Montana.

3. Cable tool operators must construct an adequate sump to contain all mud and water bailed from the hole.

4. Surface or conductor casing must be properly cemented by an approved method and pressure tested to determine a tight bond with the surrounding formations in case an unexpected flow of oil, gas or water should be encountered, unless special permission has been granted for formation shut-off.

5. Any production casing must be cemented unless a formation shut-off or packer is approved by the Board. Sufficient cement must be used to protect the casing and all possible productive and fresh water bearing formations exposed in the process of drilling and not otherwise protected.

6. All production casing must be tested by bailing or pressure to determine if there is a tight bond with the surrounding formations or possible leaks in the casing. The results of the test must be reported on Form No. 2, said report to include the size, weight, thread and length of casing, amount of cement used, and date work is done. If test shows failure, the defect must be corrected before any drilling operations are resumed.

7. Any contemplated change in status of a well such as to plug and abandon, deepen, plug back, redrill, alter casing, etc. must be presented on Form No. 2 for approval by the Board prior to commencement of work.

8. A satisfactory drilling record must be kept for each tour, showing top and thickness of each and all formations drilled and all other information of value, one copy of which is to be kept at the rig while drilling is in progress for examination by any authorized agent of the Board.

9. All producing wells must be marked with name of the operator, number of the well and location, using reasonable precautions to preserve these markings at all times.

10. Delivery to the Board of two copies of all surveys, reports, analyses, logs, tests, samples and core descriptions, etc., as described in Rule 36.22.1013 and one copy of all cementing records as furnished by the cementing company and described in Rule 36.22.1241.

11. All work must be done in conformity with the regulations of the Board of Oil and Gas Conservation of the State of Montana, as contained in "General Rules and Regulations," and amendments thereto, as well as regulations prescribed in lieu thereof.

MAR-71

MAR02-0071

Locate well by footage measurement from legal subdivision (Section) line and nearest drilling or producible well, if any.

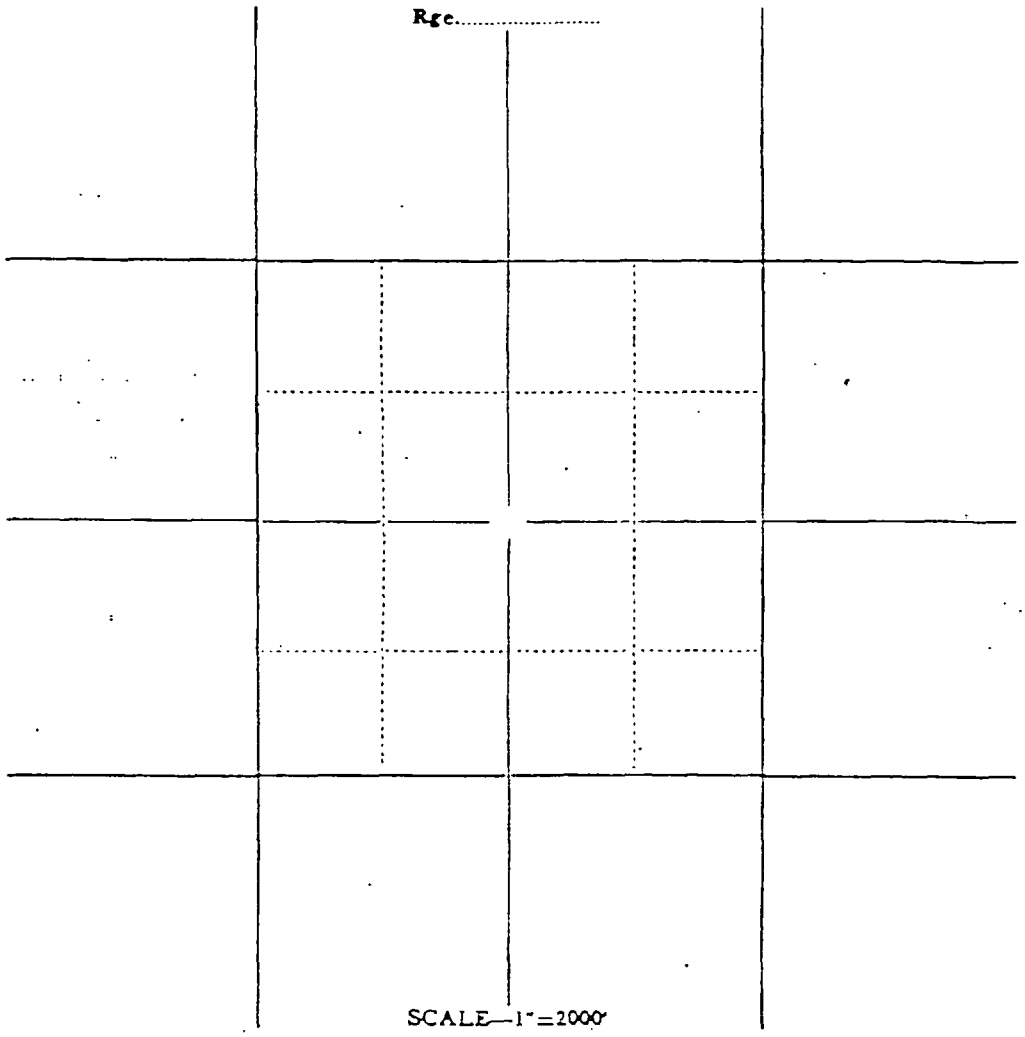
Form No. 2
File at
Billings
or Shelby

Rge.....

Form No. 2
File at
Billings
or Shelby

Locate
Well
Correctly

Twp.....



THE NOTICE OF INTENTION TO DRILL THIS WELL IS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:

1. Any person, before commencing the drilling of any oil or gas well or water source or injection well shall secure from the Board a drilling permit and shall pay to the Board the following amounts: for each well whose estimated depth is thirty-five hundred (3,500) feet or less, twenty-five dollars ($25.00); from thirty-five hundred and one (3,501) feet to seven thousand (7,000) feet, seventy-five dollars ($75.00); seven thousand and one (7,001) feet and deeper, one hundred fifty dollars ($150.00).

2. No well is to be spudded in unless the proper surety drilling bond has been posted and approved by the Board of Oil and Gas Conservation of the State of Montana.

3. Cable tool operators must construct an adequate sump to contain all mud and water bailed from the hole.

4. Surface or conductor casing must be properly cemented by an approved method and pressure tested to determine a tight bond with the surrounding formations in case an unexpected flow of oil, gas or water should be encountered, unless special permission has been granted for formation shut-off.

5. Any production casing must be cemented unless a formation shut-off or packer is approved by the Board. Sufficient cement must be used to protect the casing and all possible productive and fresh water bearing formations exposed in the process of drilling and not otherwise protected.

6. All production casing must be tested by bailing or pressure to determine if there is a tight bond with the surrounding formations or possible leaks in the casing. The results of the test must be reported on Form No. 2, said report to include the size, weight, thread and length of casing, amount of cement used, and date work is done. If test shows failure, the defect must be corrected before any drilling operations are resumed.

7. Any contemplated change in status of a well such as to plug and abandon, deepen, plug back, redrill, alter casing, etc. must be presented on Form No. 2 for approval by the Board prior to commencement of work.

8. A satisfactory drilling record must be kept for each tour, showing top and thickness of each and all formations drilled and all other information of value, one copy of which is to be kept at the rig while drilling is in progress for examination by any authorized agent of the Board.

9. All producing wells must be marked with name of the operator, number of the well and location, using reasonable precautions to preserve these markings at all times.

10. Delivery to the Board of two copies of all surveys, reports, analyses, logs, tests, samples and core descriptions, etc., as described in Rule 36.22.1013 and one copy of all cementing records as furnished by the cementing company and described in Rule 36.22.1241.

11. All work must be done in conformity with the regulations of the Board of Oil and Gas Conservation of the State of Montana, as contained in "General Rules and Regulations," and amendments thereto, as well as regulations prescribed in lieu thereof.

MAR-72

MAR02-0072

Form No. 2

NOTICE
THIS FORM BECOMES A PERMIT WHEN STAMPED APPROVED BY AN AGENT OF THE BOARD.

(SUBMIT IN QUADRUPLICATE)
TO
BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

ARM 36.22.307	ARM 36.22.1003
ARM 36.22.601	ARM 36.22.1004
ARM 36.22.602	ARM 36.22.1013
ARM 36.22.603	ARM 36.22.1301
ARM 36.22.604	ARM 36.22.1306
ARM 36.22.605	ARM 36.22.1309

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill		Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment	
Notice of Intention to Pull or Alter Casing		Supplementary Well History	
Notice of Intention to Abandon Well	XXXXX	Report of Fracturing	

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

May 21 19 84

Following is a {notice of intention to do work / report of work done} on land {owned / leased} described as follows:

LEASE Buckles

MONTANA (State) Roosevelt (County) East Poplar (Field)

Well No. "SWD" #1 22 (m. sec.) 28N (Township) 51E (Range) (Meridian)

The well is located 1803 ft. from {N / S} line and 1853 ft. from {E / W} line of Sec. 22

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is 2085'

READ CAREFULLY — DETAILS OF PLAN OF WORK — READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing.)

DETAILS OF WORK
RESULT

TXO Production Corp. proposes to P & A this well. During plugging operations, the existing perforations will be squeezed and the following plugs will be set;

Set 35 sxs cmt plug above perfs.
Set 30 sxs cmt plug @ surface.

Verbal approval was given by Claire Houghey at the Montana Board of Oil & Gas Conservation in Billings on 5-21-84.

Approved subject to conditions on reverse of form

Date

By
District Office Agent Title

Company TXO Production Corp.

By M. David Clouatre
M. David Clouatre

Title Drilling & Production Engineer
1800 Lincoln Center Building

Address Denver, CO 80264

BOARD USE ONLY
API WELL NUMBER
STATE COUNTY WELL

NOTE:—Reports on this form to be submitted to the appropriate District for approval

DRILLING PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL. UPON WRITTEN REQUEST PRIOR TO EXPIRATION DATE, ONE 90 DAY EXTENSION MAY BE GRANTED.

OVER

MAR02-0073 MAR-73

Form No. 2

NOTICE
THIS FORM BECOMES A PERMIT WHEN STAMPED APPROVED BY AN AGENT OF THE BOARD.

(SUBMIT IN QUADRUPLICATE)
TO
BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

ARM 36.22.307	ARM 36.22.1003
ARM 36.22.601	ARM 36.22.1004
ARM 36.22.602	ARM 36.22.1013
ARM 36.22.603	ARM 36.22.1301
ARM 36.22.604	ARM 36.22.1306
ARM 36.22.605	ARM 36.22.1309

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill		Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment	XXXX
Notice of Intention to Pull or Alter Casing		Supplementary Well History	
Notice of Intention to Abandon Well		Report of Fracturing	

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

May 29, 19 84

Following is a {notice of intention to do work / report of work done} on land {owned / leased} {described as follows:

LEASE Buckles

MONTANA (State) Roosevelt (County) East Poplar (Field)

Well No. "SWD" #1 22 (m. sec.) 28N (Township) 51W (Range) (Meridian)

The well is located 1803 ft. from {N / XSX} line and 1853 ft. from {XXXX / W} line of Sec. 22

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is 2085'.

READ CAREFULLY — DETAILS OF PLAN OF WORK — READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing.)

DETAILS OF WORK
RESULT

The well was plugged on 5-25-84. The well history of the plugging operations is attached. The following is a summary of the cement plugs:

1. 50 sxs cmt through perfs (785'-846').
2. 35 sxs cmt 685'-615'.
3. 30 sxs cmt @ surface.

Casing was cutoff below surface.

Approved subject to conditions on reverse of form

Date

By
District Office Agent Title

Company TXO Production Corp.

By M. David Clouatre

Title Drilling & Production Engineer

Address 1800 Lincoln Center Building
Denver, CO 80264

BOARD USE ONLY
API WELL NUMBER
2 3 1
STATE COUNTY WELL

NOTE:—Reports on this form to be submitted to the appropriate District for approval

DRILLING PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL. UPON WRITTEN REQUEST PRIOR TO EXPIRATION DATE, ONE 90 DAY EXTENSION MAY BE GRANTED.

OVER

MAR02-0074 MAR-74

P & A - MONTANA

BUCKLES "SWD" #1
Roosevelt Co./22-28N-51E

05/24/84 SITP 240#, SICP 235#. RU Halliburton. Test lines to 2000#. Pump 20 bbls fresh wtr. Had 500# @ 4 BPM. Pump 25 sxs Cl "G" cmt. Flush w/ 5 bbls fresh wtr. Start to stage for squeeze. Couldn't obtain squeeze after 10 bbls fresh wtr pumped. Pump 25 sxs Cl "G" cmt. Flush w/ 5 bbls fresh wtr. Start to stage for squeeze. Obtain squeeze w/ 5.5 bbls total flush @ 1000#. SWI for 20 min. Bled press to 500#. SWI. SDFN. DW: 2900. CW: 2900.

05/26/84 RU Allison Rig #8. ND wellhead. NU BOP. Attempt to release pkr. No tension on tbg. TOOH w/ 2-7/8" tbg & Model "AD-1" pkr. TIH w/ tbg to 685'. RU Halliburton. Pump 35 sxs Cl "G" cmt from 685-615'. TOOH & LD tbg. Pump 30 sxs surf plug. RD Halliburton. ND BOP. RD Allison & RR @ 2 PM 5/25/84. Well P & A'd on 5/25/84. FINAL REPORT!!! DW: 8778. CW: 11,678.

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☐ other SWD Well
2. NAME OF OPERATOR
TXO Production Corp.
3. ADDRESS OF OPERATOR
1800 Lincoln Center Bldg., Denver, CO 80264
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1803' FNL & 1853' FWL (SE NW)
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same

5. LEASE
14-20-0256-5066 Ft. Peck
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Austin R. Buckles
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Buckles
9. WELL NO.
"SWD" #1
10. FIELD OR WILDCAT NAME
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 22, T28N-R51E
12. COUNTY OR PARISH: Roosevelt
13. STATE: Montana
14. API NO.
25-085-21336
15. ELEVATIONS (SHOW DF, KDB, AND WD)
2085' GL

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	☐	☐
FRACTURE TREAT	☐	☐
SHOOT OR ACIDIZE	☐	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☐	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☐	☐
ABANDON*	☒	☐
(other)		

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. 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.)*

TXO Production Corp. proposes to P & A this well. During plugging operations, the existing perforations will be squeezed and the following plugs will be set:

Set 35 sxs cmt plug above perfs.
Set 30 sxs cmt plug @ surf.

Subsurface Safety Valve: Manu. and Type: _____ Set @ _____ Ft.

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

SIGNED M. David Clouatre TITLE Drlg & Prod Engineer DATE June 1, 1984
M. David Clouatre

(This space for Federal or State office use)

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

MAR02-0076

*See Instructions on Reverse Side

MAR-76

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☐ other SWD Well
2. NAME OF OPERATOR: TXO Production Corp.
3. ADDRESS OF OPERATOR: 1800 Lincoln Center Bldg., Denver, CO 80264
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
   AT SURFACE: 1803' FNL & 1853' FWL (SE NW)
   AT TOP PROD. INTERVAL: Same
   AT TOTAL DEPTH: Same
5. LEASE: 14-20-0256-5066 Ft. Peck
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Austin R. Buckles
7. UNIT AGREEMENT NAME:
8. FARM OR LEASE NAME: Buckles
9. WELL NO.: "SWD" #1
10. FIELD OR WILDCAT NAME:
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 22, T28N-R51E
12. COUNTY OR PARISH: Roosevelt
13. STATE: Montana
14. API NO.: 25-085-21336
15. ELEVATIONS (SHOW DF, KDB, AND WD): 2085' GL

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	☐	☐
FRACTURE TREAT	☐	☐
SHOOT OR ACIDIZE	☐	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☐	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☐	☐
ABANDON*	☐	☒
(other)		

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. 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.)*

The well was plugged on 5-25-84. The well history of the plugging operations is attached. The following is a summary of the cement plugs:

1. 50 sxs cmt through perfs (785' - 846').
2. 35 sxs cmt 685' - 615'.
3. 30 sxs cmt @ surface.

Casing was cutoff below surface.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED M. David Clouatre TITLE Drlg. & Prod. Engineer DATE June 1, 1984

(This space for Federal or State office use)

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

MAR02-0077

MAR-77

*See Instructions on Reverse Side

P & A - MONTANA

BUCKLES "SWD" #1
Roosevelt Co./22-28N-51E

05/24/84 SITP 240#, SICP 235#. RU Halliburton. Test lines to 2000#. Pump 20 bbls fresh wtr. Had 500# @ 4 BPM. Pump 25 sxs Cl "G" cmt. Flush w/ 5 bbls fresh wtr. Start to stage for squeeze. Couldn't obtain squeeze after 10 bbls fresh wtr pumped. Pump 25 sxs Cl "G" cmt. Flush w/ 5 bbls fresh wtr. Start to stage for squeeze. Obtain squeeze w/ 5.5 bbls total flush @ 1000#. SWI for 20 min. Bled press to 500#. SWI. SDFN. DW: 2900. CW: 2900.

05/26/84 RU Allison Rig #8. ND wellhead. NU BOP. Attempt to release pkr. No tension on tbg. TOOH w/ 2-7/8" tbg & Model "AD-1" pkr. TIH w/ tbg to 685'. RU Halliburton. Pump 35 sxs Cl "G" cmt from 685-615'. TOOH & LD tbg. Pump 30 sxs surf plug. RD Halliburton. ND BOP. RD Allison & RR @ 2 PM 5/25/84. Well P & A'd on 5/25/84. FINAL REPORT!!! DW: 8778. CW: 11,678.

TXO DRILLING:

BUCKLES "SWD" #1 (950')
Prop. #7839, AFE #81-8653
Roosevelt Co, MT/TXO 100%
22-T28N-R51E

5/14/81	110' (70'). Drlg. Spud 8:25 pm 5/13/81. Day 1. (CWC: $13,353).
5/15/81	180' (70'). Prep to TOOH. Day 2. (CWC: $18,535).
5/16/81	280' (100'). TOOH. 9.4/38. TOOH w/ 4-3/4" DC, PU & TIH w/6-6¼" DC. Resumed drlg. Penetration rate dropped off-inadequate power swivel & mud pump. Prep to SDR until adequate drlg equip is obtained. Day 3. (CWC $24,899).
5/17/81	280' Rep Rig. TOOH & SDR. Day 4. (CWC: $26,343).
5/18/81	MOR. Unable to RU. WO Drlg. Rig. Day 5. (CWC: $27,39
5/19/81	280'. WO Drlg Rig. Allied Drlg. should be on location this pm. Day 6. (CWC: $27,893).
5/20/81	RU Allied Drlg. Day 7. (CWC: $27,893).
5/21/81	280'. WODC. Surface. RU Allied Explor. Drlg. Rig. RIH w/6¼" drl. collars & 8-3/4" bit. Hit fill @ 90'. Wash & ream to 195'. SD to rep mud pump. Pull & LD 6¼" drl. collars. WO 4-3/4" DC. (CWC: $31,913). Day 8
5/22/81	280'. Reaming Hole. 9.3/55. TIH w 8-3/4" bit & 4-3/4" DC. Wash & ream hole to 100'. Bit plgd. POOH. Rep mud pump eng. TIH w/bit. Wash & ream from 100-130'. Day 9. (CWC: $36,963).
5/23/81	328' (48'). Drlg. Day 10. (CWC: $42,463).
5/24/81	341' (13'). Drlg. Day 11. (CWC: $47,963).
5/25/81	589' (261'). Drlg. Day 12. (CWC: $53,463).

TXO DRILLING:

BUCKLES "SWD" #1 (950')
Prop. #7839, AFE #81-8653
Roosevelt Co, MT/TXO 100%
22-T28N-R51E

5/26/81 960' (371'). TD 960'. Cond. hole. LDDC. Ran 7" 17# csg. RU Howco, tried 250 sxs CaC #G cmt. Day 13. ($74,703).

5/27/81 Cem w/Western Co., 50 sx 1st run, no cem ret, 2nd run, 100 sx, some ret, 3rd run, 250 sx, good ret. (CWC: $87,203).

5/28/81 Cem held 8 hrs, wtr strtd flowing to surf when pulled 1" & 3/4" pipe out from between conductor pipe & 7" csg. Went back down between conductor pipe & 7" w/50 sxs. Cem held 3 hrs. before well strtd flowing water behind the conductor pipe. Est rate approaching 1800 BPD. (CWC: $87,20

5/29/81 Cem held 3 hrs, wtr flow broke thru to surf again-wtr cut w/ flammable gas. Pmpd 150 sx barite down 1" flow string into 7" x 10-3/4" annulus, followed w/ 300 sx Thixotropic cmt, good circ rets throughout. Cem held 15 mins, wtr flow resumed. Prep to run logs in 7" csg to evaluate wtr flow. (CWC: $111,020).

5/30/81 Temp log indicates wtr flow from Judith River, CBL indicates lack of cem from base of Judith River 880' to 420'. Perf 7" csg @ 875' w/4 holes, cem down 7" csg w/Class G, 3% CaCl, & 1/2# sk Tuf-Plug, pumped 6 BPM @ 250 psi w/full returns. Cmt. returns to surf @ 360 sx; perfs squeezed off @ 1000 psi, ran 6¼" bit to wash out cmt from csg No wtr flow @ surf. (CWC: $117,720).

5/31/81 Drld solid cmt inside 7" csg from surf to 500'. CBL log indicates full or partial cmt to surf. No wtr flow @ surf. (CWC: $133,100).

TXO DRILLING:

BUCKLES "SWD" #1 (950')
Prop. #7839, AFE #81-8653
Roosevelt Co, MT/TXO 100%
22-T28N-R51E

6/1/81 Drlg cmt to 850' KB, Prep to run CBL. (CWC: $140,200).

6/2/81 RU Prairie Wireline. Run CDL. Cmt ok. SD due to rain & muddy roads. (CWC: $143,700).

6/3/81 Cut off cond pipe. Run Baker Model AD-1 pkr w/Model F SN below pkr (2.31" ID). Ran 22 jts 2 7/8" 6.5# K-55 tbg. Int plastic coated. Pkr set @ 685' GL, SN @ 689' GL. Circ. hole w/ inhibited pkr fluid. Set pkr w/30,000# tension. Instl wlhd. RU Prairie Wireline. Perf 7" csg in Judith River formation @ 785-90', 794-97', 807-11', 822-24', 839'-46' w/4 SPF, using 2 1/8" expendable tbg gun. Well flwng back small stream of water. SITP 100 psi in 1 hr. RD Allied Drlg. RR @ 5 pm 6/2/81. DROP FROM REPORT UNTIL INJECTION PUMP FACILITY INSTALLED. (CWC: $160,870)

DAILY DRILLING REPORT

DATE 6-3-81

DAY 19

OPERATOR TXO

WELL Buckles SWD #1

DEPTH _____ OPERATIONS REPORT TIME _____

_____ FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: _____

MUD: WT ___; VIS ___; WL ___; FC ___; PH ___; SOLIDS ___; CL ___; PV ___

YP ___; GELS ___; OIL ___; LCM ___; _____

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET	HOURS

WEIGHT ON BIT _____ RPM _____ NO. 1 PUMP PRESSURE _____ PUMP ___"X___"X___ SPM

NO 2 PUMP PRESSURE _____ PUMP ___"X___"X___ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

Cut off conductor pipe.

REMARKS: [illegible] Run Baker model 9D-1 pkr. with model F S.N. below ((2.31" ID)). Ran 22 jts 2 7/8" 6.5# K55 tbg. Int. plastic coated. pkr. set @ 685' GL SN @ 689' GL Circ hole w/ inhibited pkr fluid. Set pkr. with 30,000# tension. Instld. wellhead RU Prairie Wireline. Perf 7" csg. In Judith River

DAILY COSTS

RIG _____

MUD _____

WATER _____

BITS _____

LOGGING _____

TESTING _____

CEMENTING _____

RENTALS _____

MATERIALS (csg & wh) _____

MAR02-0082

MAR-82

DAILY TOTAL $17,170

CUMULATIVE $160,870

DATE_____ WELL NAME_____ OPERATOR_____

DRILLING____ COMPLETIONS____ OPERATIONS____

formation @ 785-90', 794 to 797', 807' to 811', 832-834', 839' to ~~83~~ 846' 4/4' SPF, using 2 1/8" expendable tbg. gun. Well flowing back small stream of water. SITP 100 psi in 1 hr. RD Allied Dslg. RR @ 5pm 6-3-81. Drop Well from Report until injection pump facility installed.

MAR02-0083

MAR-83

Buckles SWD #1
June 2

Rig up. Prairie Wire Line
Run CDL
Cement ok. shut down
due to rain and muddy
roads.

Daily cost $3,500.00

Leo

CWC $143,700

MAR02-0084

MAR-84

DAILY DRILLING REPORT

DATE 6-1-81

DAY

OPERATOR TXO

WELL Buckles SWD #1

DEPTH _____ OPERATIONS REPORT TIME _____

_____ FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: _____

MUD: WT ___; VIS ___; WL ___; FC ___; PH ___; SOLIDS ___; CL ___; PV ___

YP ___; GELS ___; OIL ___; LCM ___; _____

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET	HOURS

WEIGHT ON BIT ___ RPM ___ NO. 1 PUMP PRESSURE ___ PUMP ___ "X ___ "X ___ SPM

NO. 2 PUMP PRESSURE ___ PUMP ___ "X ___ "X ___ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: Drilled cmt to 850' KB, Prep to run CBL.

DAILY COSTS

RIG

MUD

WATER

BITS

LOGGING

TESTING

CEMENTING

RENTALS

MATERIALS (csg & wh)

MAR02-0085

MAR-85

DAILY TOTAL $7100

CUMULATIVE $140,200

DATE_____ WELL NAME_____ OPERATOR_____

DRILLING____ COMPLETIONS____ OPERATI. .S____

111,030

MAR02-0086

MAR-86

DAILY DRILLING REPORT

DATE 5-31-81

DAY

OPERATOR TXO

WELL Buckles SWD #1

DEPTH _____ OPERATIONS REPORT TIME _____

_____ FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: _____

MUD: WT ___; VIS ___; WL ___; FC ___; PH ___; SOLIDS ___; CL ___; PV ___

YP ___; GELS ___; OIL ___; LCM ___; _____

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET	HOURS

WEIGHT ON BIT ___ RPM ___ NO. 1 PUMP PRESSURE ___ PUMP ___ "X ___ "X ___ SPM

NO. 2 PUMP PRESSURE ___ PUMP ___ "X ___ "X ___ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: Drilled solid cmt inside 7" csg from surface to 500'. CBL log indicates full or partial cmt to surf. No water flow to surface.

DAILY COSTS

RIG

MUD

WATER

BITS

LOGGING

TESTING

CEMENTING

RENTALS

MATERIALS (csg & wh)

MAR02-0087

MAR-87

DAILY TOTAL $15,200

CUMULATIVE $133,100

DAILY DRILLING REPORT

DATE 5-30-81

DAY

OPERATOR TXO

WELL Buckles SWD #1

DEPTH _____ OPERATIONS REPORT TIME _____

_____ FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: _____

MUD: WT ___; VIS ___; WL ___; FC ___; PH ___; SOLIDS ___; CL ___; PV ___

YP ___; GELS ___; OIL ___; LCM ___; _____

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET	HOURS

WEIGHT ON BIT ___ RPM ___ NO. 1 PUMP PRESSURE ___ PUMP ___ "X ___ "X ___ SPM

NO. 2 PUMP PRESSURE ___ PUMP ___ "X ___ "X ___ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: Temperature log indicates wtr flow from Judith River, CBL indicates lack of cement from base of Judith River - 880' to 420'. Perf 7" csg @ 875' w/ 4 holes, cemented down 7" csg w/ Class "G", 3% CaCl2, & 1/2 lb/sk Jet-Plug; pumped 6 BPM @ 250 psi w/ full returns. Cmt returns to surf @ 360 sx; perfs squeezed off @ 1000 psi. Ran 6 1/4" bit to wash out cmt from csg. No wtr flow at surface.

DAILY COSTS

RIG

MUD

WATER

BITS

LOGGING

TESTING

CEMENTING

RENTALS

MATERIALS (csg & wh)

MAR02-0088

MAR-88

DAILY TOTAL $6700

CUMULATIVE $117,720

DATE_____ WELL NAME_____ OPERATOR_____

DRILLING____ COMPLETIONS____ OPERATIONS____

111,020
6,700
$117,720

MAR02-0089

MAR-89

DAILY DRILLING REPORT

DATE 5-29-81

DAY 14

OPERATOR TXO

WELL Buckles SWD #1

DEPTH _____ OPERATIONS REPORT TIME Logging

_____ FEET DRILLED IN LAST TWENTY-FOUR HOURS

FORMATION: Judith River

MUD: WT ___; VIS ___; WL ___; FC ___; PH ___; SOLIDS ___; CL ___; PV ___

YP ___; GELS ___; OIL ___; LCM ___; ___

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET	HOURS

WEIGHT ON BIT ___ RPM ___ NO. 1 PUMP PRESSURE ___ PUMP ___"X___"X___ SPM

NO. 2 PUMP PRESSURE ___ PUMP ___"X___"X___ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: Cement held 3 hrs, wtr flow broke thru to surface again - wtr cut w/ flammable gas. Pumped 150 sx barite down 1" flow string into 7"x/9 3/8" annulus, followed w/ 300 sx Thixotropic cmt, good circ returns throughout. Cement held 15 mins, wtr flow resumed. Prepare to run logs in 7" csg to evaluate wtr flow.

DAILY COSTS

RIG ___

MUD ___

WATER ___

BITS ___

LOGGING ___

TESTING ___

CEMENTING ___

RENTALS ___

MATERIALS (csg & wh) ___

MAR02-0090

MAR-90

DAILY TOTAL

CUMULATIVE $111,020

DAILY DRILLING REPORT

DATE 5-28

DAY 13

OPERATOR TX II

WELL Buckles, SWD

DEPTH 960' OPERATIONS REPORT TIME WOC

_____ FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: _____

MUD: WT ___; VIS ___; WL ___; FC ___; PH ___; SOLIDS ___; CL ___; PV ___

YP ___; GELS ___; OIL ___; LCM ___; _____

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET	HOURS

WEIGHT ON BIT ___ RPM ___ NO. 1 PUMP PRESSURE ___ PUMP ___"X ___"X ___ SPM

NO. 2 PUMP PRESSURE ___ PUMP ___"X ___"X ___ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: cem w/ Western, 50sks, PD 5 a.m.

~~[illegible]~~ 50sks - NR

100sks - Same

250sks - Good - 8 hrs. brake

~~[illegible]~~ Still flowing 1800 BW/D

~~[illegible]~~ behind

DAILY COSTS

RIG _____

MUD _____

WATER _____

BITS _____

LOGGING _____

TESTING _____

CEMENTING _____

RENTALS _____

MATERIALS (csg & wh) _____

MAR02-0091

MAR-91

DAILY TOTAL $13,000

CUMULATIVE $100,203

DATE_____ WELL NAME_____ OPERATOR_____

DRILLING____ COMPLETIONS____ OPERATI...IS____

765-2810

Room 121

MAR02-0092

MAR-92

DAILY DRILLING REPORT

DATE 5-28-81

DAY

OPERATOR TXO

WELL Buckles SWD

DEPTH _____ OPERATIONS REPORT TIME _____

_____ FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: _____

MUD: WT ___; VIS ___; WL ___; FC ___; PH ___; SOLIDS ___; CL ___; PV ___

YP ___; GELS ___; OIL ___; LCM ___; _____

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET	HOURS

WEIGHT ON BIT _____ RPM _____ NO. 1 PUMP PRESSURE _____ PUMP ___ "X ___ "X ___ SPM

NO 2 PUMP PRESSURE _____ PUMP ___ "X ___ "X ___ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: Cem. held 8 hrs. Water strtd. flowing to surface ~~out~~ when pulled 1" + 3/4" pipe out from between conductor pipe & 7" csg. Work back down between conductor pipe & 7" w/ 50 sps cem, held 3 hrs, before well strtd. flowing water behind the conductor pipe. Est rate approaching 1800 BPD.

DAILY COSTS

RIG _____

MUD _____

WATER _____

BITS _____

LOGGING _____

TESTING _____

CEMENTING _____

RENTALS _____

MATERIALS (csg & wh) _____

MAR-93

DAILY TOTAL

CUMULATIVE

MAR02-0093

DAILY DRILLING REPORT

DATE 5-27-81

DAY 12

OPERATOR TXO

WELL Buckles SWD #1

DEPTH _____ OPERATIONS REPORT TIME _____

_____ FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: _____

MUD: WT ___; VIS ___; WL ___; FC ___; PH ___; SOLIDS ___; CL ___; PV ___

YP ___; GELS ___; OIL ___; LCM ___; _____

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET	HOURS

WEIGHT ON BIT ___ RPM ___ NO. 1 PUMP PRESSURE ___ PUMP ___ "X ___ "X ___ SPM

NO 2 PUMP PRESSURE ___ PUMP ___ "X ___ "X ___ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: Cementing w/ Western Co. 50 sks 1st run. No cement return. 2nd run, 100 sks. Some return. 3rd run, 250 sks. good return.

(Not quite filled, let sit for 8 hrs)

DAILY COSTS

RIG _____

MUD _____

WATER _____

BITS _____

LOGGING _____

TESTING _____

CEMENTING _____

RENTALS _____

MATERIALS (csg & wh) _____

MAR02-0094

MAR-94

[redacted] $12,500

CUMULATIVE $87,203

DATE_____ WELL NAME_____ OPERATOR_____

DRILLING____ COMPLETIONS____ OPERATI..IS____

Not quite filled, let sit for 8 hrs

MAR02-0095

MAR-95

DAILY DRILLING REPORT

DATE 5-26-81

DAY 13

OPERATOR TXO

WELL Buckles SWD #1

DEPTH 960' OPERATIONS REPORT TIME

371' FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION:

MUD: WT ; VIS ; WL ; FC ; PH ; SOLIDS ; CL ; PV

YP ; GELS ; OIL ; LCM ;

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET	HOURS

WEIGHT ON BIT RPM NO 1 PUMP PRESSURE PUMP "X "X SPM

NO 2 PUMP PRESSURE PUMP "X "X SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: TD @ 960'. Cond hole. LDDC. Ran 7" 17# csg. RU Howco. Tried 250 sks Class H cmt.

DAILY COSTS

RIG

MUD

WATER

BITS

LOGGING

TESTING

CEMENTING

RENTALS

MATERIALS (csg & wh)

MAR02-0096

MAR-96

DAILY TOTAL

CUMULATIVE $74,703

DAILY DRILLING REPORT

DATE 5-25-81

DAY 12

OPERATOR TXO

WELL Buckles SWD #1

DEPTH 589' OPERATIONS REPORT TIME 261'

Dolg. FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: _____

MUD: WT ___; VIS ___; WL ___; FC ___; PH ___; SOLIDS ___; CL ___; PV ___

YP ___; GELS ___; OIL ___; LCM ___; _____

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET	HOURS

WEIGHT ON BIT ___ RPM ___ NO. 1 PUMP PRESSURE ___ PUMP ___"X___"X___ SPM

NO 2 PUMP PRESSURE ___ PUMP ___"X___"X___ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: _____

DAILY COSTS

RIG ___

MUD ___

WATER ___

BITS ___

LOGGING ___

TESTING ___

CEMENTING ___

RENTALS ___

MATERIALS (csg & wh) ___

MAR02-0097

MAR-97

DAILY TOTAL

CUMULATIVE $53,463

DAILY DRILLING REPORT

DATE 5-24-81

DAY 11

OPERATOR TYO

WELL Buckles SWD #1

DEPTH 341' OPERATIONS REPORT TIME 13'

Dolg FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: _____

MUD: WT ___; VIS ___; WL ___; FC ___; PH ___; SOLIDS ___; CL ___; PV ___

YP ___; GELS ___; OIL ___; LCM ___; _____

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET	HOURS

WEIGHT ON BIT ___ RPM ___ NO. 1 PUMP PRESSURE ___ PUMP ___"X ___"X ___ SPM

NO 2 PUMP PRESSURE ___ PUMP ___"X ___"X ___ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: Change bit

DAILY COSTS

RIG ___

MUD ___

WATER ___

BITS ___

LOGGING ___

TESTING ___

CEMENTING ___

RENTALS ___

MATERIALS (csg & wh) ___

MAR02-0098

MAR-98

DAILY TOTAL

CUMULATIVE $47,963

DAILY DRILLING REPORT

DATE 5-23-81

DAY 10

OPERATOR TXO

WELL Buckles SWD #1

DEPTH 328' OPERATIONS REPORT TIME Dilg.

48' FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: _____

MUD: WT ___; VIS ___; WL ___; FC ___; PH ___; SOLIDS ___; CL ___; PV ___

YP ___; GELS ___; OIL ___; LCM ___; _____

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET	HOURS

WEIGHT ON BIT ___ RPM ___ NO. 1 PUMP PRESSURE ___ PUMP ___ "X ___ "X ___ SPM

NO. 2 PUMP PRESSURE ___ PUMP ___ "X ___ "X ___ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: _____

DAILY COSTS

RIG ___

MUD ___

WATER ___

BITS ___

LOGGING ___

TESTING ___

CEMENTING ___

RENTALS ___

MATERIALS (csg & wh) ___

MAR02-0099

MAR-99

DAILY TOTAL

CUMULATIVE $42,463

23- (8) 328' (48') Drlg.
42463

24- 341 (13') Drlg.
Change bit 47963

25- 589' (261') Drlg.
53463

26- 960' (3701')
TD @ 960', Cond hole, LD
collars. R 7" 17# csg.
RU Howco, tried 250 sch
Ca C#G cmt.
(74703)

MAR-100

MAR02-0100

DAILY DRILLING REPORT

DATE 5-22-81

DAY 7 9.

OPERATOR TXO

WELL Buckles SWD #1

DEPTH 280' OPERATIONS REPORT TIME Reaming hole

0' FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION:

MUD: WT 9.3; VIS 55; WL ; FC ; PH ; SOLIDS ; CL ; PV

YP ; GELS ; OIL ; LCM ;

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET	HOURS

WEIGHT ON BIT RPM NO. 1 PUMP PRESSURE PUMP "X "X SPM
NO 2 PUMP PRESSURE PUMP "X "X SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS:

WO 4 ¾" drl. collars
TIH w/ 8 ¾" bit &
4 ¾" drl. collars
Wash & Ream hole
to 1 1m". Bit plug
POOH. Rep. mud
pump engine TIH
w/ bit wash & ream
from 100' - 130'

DAILY COSTS

RIG	3 000
MUD	
WATER	
BITS	
LOGGING	
TESTING	
CEMENTING	
RENTALS	1 500
MATERIALS (csg & wh)	
Tran	500
M, sr	50
DAILY TOTAL	5, 050
CUMULATIVE	36 963

MAR02-0101

MAR-101

DAILY DRILLING REPORT

DATE 5-21-81

DAY ~~6~~ ~~7~~ 8

OPERATOR TXO

WELL Buckles SWD #1

DEPTH 280' OPERATIONS REPORT TIME Rep. pump, WO Drill Collar

0' FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: Surface

MUD: WT 9.3; VIS 45; WL ____; FC ____; PH ____; SOLIDS ____; CL 62/000; PV ____

YP ____; GELS ____; OIL ____; LCM ____; Salt 102,000

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET	HOURS

WEIGHT ON BIT ____ RPM ____ NO. 1 PUMP PRESSURE ____ PUMP ____"X ____"X ____ SPM

NO 2 PUMP PRESSURE ____ PUMP ____"X ____"X ____ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: RU Allied Explor Srlg rig RIH w/ 6¼" drl. collars + 8¾" bit Hit fill at 90'. Wash + ream to 195'. SD to rep mud pump Pull + laid down 6¼" drl collars WO 4¾" drl collars

DAILY COSTS

RIG 3,000

MUD 150

WATER 130

BITS

LOGGING

TESTING

CEMENTING

RENTALS 1000

MATERIALS (csg & wh)

Trucker 2500

Welder 40

Dirt work 700

DAILY TOTAL 4520

CUMULATIVE 31913

MAR-102

MAR02-0102

DAILY DRILLING REPORT

DATE 5-20-81

DAY 7

OPERATOR TXO

WELL Burkes SWD #1

DEPTH _____ OPERATIONS REPORT TIME _____

_____ FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: _____

MUD: WT ___; VIS ___; WL ___; FC ___; PH ___; SOLIDS ___; CL ___; PV ___

YP ___; GELS ___; OIL ___; LCM ___; _____

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET	HOURS

WEIGHT ON BIT ___ RPM ___ NO. 1 PUMP PRESSURE ___ PUMP ___ "X ___ "X ___ SPM

NO 2 PUMP PRESSURE ___ PUMP ___ "X ___ "X ___ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: RU Allied Explor. rig.

DAILY COSTS

RIG _____

MUD _____

WATER _____

BITS _____

LOGGING _____

TESTING _____

CEMENTING _____

RENTALS _____

MATERIALS (csg & wh) _____

DAILY TOTAL

CUMULATIVE

MAR02-0103

MAR-103

DAILY DRILLING REPORT

DATE 5-19-81

DAY 6

OPERATOR TXO

WELL Buckles "SWD" #1

DEPTH 280 OPERATIONS REPORT TIME W.O. Drlg Rig

0 FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION:

MUD: WT___; VIS ___; WL ___; FC ___; PH ___; SOLIDS ___; CL ___; PV ___

YP___; GELS___; OIL ___; LCM ___;

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET	HOURS

WEIGHT ON BIT___ RPM___ NO. 1 PUMP PRESSURE___ PUMP___"X___"X___ SPM

NO 2 PUMP PRESSURE___ PUMP___"X___"X___ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: Allied Drilling should be on location this p.m.

DAILY COSTS

RIG

MUD

WATER

BITS

LOGGING

TESTING

CEMENTING

RENTALS 500

MATERIALS (csg & wh)

MAR-104

MAR02-0104

200,883

DAILY TOTAL 500

CUMULATIVE $ 160,383

DAILY DRILLING REPORT

DATE 5-18-81

DAY 5

OPERATOR TXO

WELL Burkle "SWD" #1

DEPTH _____ OPERATIONS REPORT TIME Moving out Rig

_____ FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: _____

MUD: WT ___; VIS _____; WL _____; FC _____; PH _____; SOLIDS _____; CL ____; PV _____

YP ___; GELS: _____; OIL _____; LCM _____; _____

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET	HOURS

WEIGHT ON BIT _____ RPM _____ NO. 1 PUMP PRESSURE _____ PUMP ____"X ____"X ____ SPM

NO 2 PUMP PRESSURE _____ PUMP ____"X ____"X ____ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: Unable to rig up [illegible] drilling equip. ~~[illegible]~~ [illegible] down [illegible] moved out rig. W.O. [illegible] [illegible]

DAILY COSTS

RIG	350
MUD	
WATER	200
BITS	
LOGGING	
TESTING	
CEMENTING	
RENTALS	500
MATERIALS (csg & wh)	

MAR02-0105

MAR-105

DAILY TOTAL	1050
CUMULATIVE	27,393

DAILY DRILLING REPORT

DATE 5-17-81

DAY 4

OPERATOR TXO

WELL Buckle & WD #1

DEPTH 280 OPERATIONS REPORT TIME Repairing Rig

_____ FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: _____

MUD: WT___; VIS _____; WL _____; FC _____; PH _____; SOLIDS _____; CL _____; PV _____

YP___; GELS _____; OIL _____; LCM _____; _____

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET	HOURS

WEIGHT ON BIT _____ RPM _____ NO. 1 PUMP PRESSURE _____ PUMP ___"X___"X___ SPM

NO 2 PUMP PRESSURE _____ PUMP ___"X___"X___ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: TOOH & shut rig down.

DAILY COSTS

RIG 344

MUD

WATER 360

BITS

LOGGING

TESTING

CEMENTING

RENTALS 500

MATERIALS (csg & wh)

Tundins 240

MAR02-0106 MAR-106

DAILY TOTAL 1444

CUMULATIVE 26343

DAILY DRILLING REPORT

DATE: 5-16-81

DAY: 3

OPERATOR: TXO

WELL: Burkle SWD #1

DEPTH: 280   OPERATIONS REPORT TIME: TOOH

100' FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION:

MUD: WT 8.4; VIS 38; WL ; FC ; PH ; SOLIDS ; CL ; PV

YP ; GELS ; OIL ; LCM ;

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET	HOURS

WEIGHT ON BIT ____ RPM ____ NO. 1 PUMP PRESSURE ____ PUMP ____"X____"X____ SPM
NO 2 PUMP PRESSURE ____ PUMP ____"X____"X____ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: TOOH w/ 4 3/4" D.C. P.U. & TIH w/ 6 - 6 1/4" D.C. Resumed drlg. Rate decreased due ~~[illegible]~~ to [illegible] in rotary swivel & mud pump. Preparing to shut down [illegible] [illegible] equip. [illegible] obtained

DAILY COSTS	
RIG	5504
MUD	
WATER	360
BITS	
LOGGING	
TESTING	
CEMENTING	
RENTALS	500
MATERIALS (csg & wh)	
DAILY TOTAL	6364
CUMULATIVE	24899

MAR02-0107

MAR-107

DAILY DRILLING REPORT

DATE 5-15-81

DAY 2

OPERATOR TXO

WELL Buckles Sub #1

DEPTH 180' OPERATIONS REPORT TIME Prep to TOOH for heavier drill collars.

70' FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION:

MUD: WT 9.4; VIS 45; WL ; FC ; PH ; SOLIDS ; CL ; PV

YP ; GELS ; OIL ; LCM ;

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET	HOURS
1	913580	8 3/4"	Reed	Y-11S	3-32/64",	new	40' - 180'	140'	

WEIGHT ON BIT all RPM 100 NO. 1 PUMP PRESSURE 400 PUMP "X "X SPM

NO 2 PUMP PRESSURE PUMP "X "X SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: Down -6 hrs. - mud pump. ~~Have~~ Replaced mud pump - resumed drlg.

DAILY COSTS

RIG $4472

MUD

WATER 360

BITS

LOGGING

TESTING

CEMENTING

RENTALS 350

MATERIALS (csg & wh)

MAR02-0108

MAR-108

DAILY TOTAL $5182

CUMULATIVE $18,535

DAILY DRILLING REPORT

DATE 5-14-81

DAY 1

OPERATOR TXO

WELL Burklar "SWD" #1

DEPTH 110' OPERATIONS REPORT TIME Drlg.

70' FEET DRILLED IN LAST TWENTY-FOUR HOURS. 24 hrs.

FORMATION:

MUD: WT ; VIS ; WL ; FC ; PH ; SOLIDS ; CL ; PV

YP ; GELS ; OIL ; LCM ;

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET	HOURS
1	913580	8 3/4	Reed	Y11-S	32/64	new	40 - 110'	70'	11

WEIGHT ON BIT all of it RPM 100 NO. 1 PUMP PRESSURE 300 PUMP "X "X SPM

NO 2 PUMP PRESSURE PUMP "X "X SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS: Natural mud

Spud 8:25 pm 5-13-81

Set Headman airhor

$768 welding $360

Trucking $1600

DAILY COSTS

RIG 7504

MUD 425

WATER 540

BITS 870

LOGGING

TESTING

CEMENTING 286

RENTALS 500

MATERIALS (csg & wh)

MAR02-0109

MAR-109

DAILY TOTAL 13,353

CUMULATIVE

DAILY DRILLING REPORT

DATE 5-13-81

DAY

OPERATOR TXO

WELL Buckles Sun #1

DEPTH _____ OPERATIONS REPORT TIME _____

_____ FEET DRILLED IN LAST TWENTY-FOUR HOURS.

FORMATION: _____

MUD: WT___; VIS _____; WL _____; FC _____; PH _____; SOLIDS _____; CL ____; PV _____

YP___; GELS_____; OIL _____; LCM _____; _____

BIT NO.	SERIAL NO.	SIZE	MAKE	TYPE	JET SIZES	NEW/ USED	FROM - TO	FEET	HOURS

WEIGHT ON BIT _____ RPM _____ NO. 1 PUMP PRESSURE _____ PUMP ____"X ____"X _____ SPM

NO 2 PUMP PRESSURE _____ PUMP ____"X ____"X _____ SPM

SURVEYS:

DEPTH	ANGLE	DEPTH	ANGLE

REMARKS:

All equip. on location

Prep. to R.U.

DAILY COSTS

RIG

MUD

WATER

BITS

LOGGING

TESTING

CEMENTING

RENTALS

MATERIALS (csg & wh)

MAR-110

DAILY TOTAL

CUMULATIVE

MAR02-0110

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PAGE 1 OF 1 PAGES

INVOICE NO. 804967

SWD-1 Buckles | Roosevelt | 717 | 5-23-84

TXO Production Corp. | SAME

Box 1165 | 1 Glendive | 55530

Williston N.D. 58801 | Halco | 2

Location | 3

TEXAS OIL & GAS CORP
1900 LINCOLN CENTER BLDG.
DENVER, CO 80264

882417

B-

Salt Water Disposal | DS

Squeeze + PTA

PRICE REFERENCE	SECONDARY REF. OR PART NO.	DESCRIPTION	UNITS 1 QTY	UNITS 1 MEAS	UNITS 2 QTY	UNITS 2 MEAS	UNIT PRICE	AMOUNT	
		MILEAGE (None Infield)							
R009-134	R009-DA	Pump Chg	846	FT	864			867	60
R009-019		PUMP CHARGE 5-25-84	662	FT				760	20
		AS PER ATTACHED B TICKET NO.							

TAX REFERENCES

SUB TOTAL 1627 80

TOTAL 1627 10

Gerald Scarpelli

MAR-111

MAR02-0111

JOB SUMMARY

5	17	7	KB	850	
4	6.5	2 7/8	KB	685	
			785-846	4	

Baker AD-1 set at 685

JOB DATA

Called Out	On Location	Job Started	Job Completed
Date 5-22-84	Date 5-23-84	Date 5-23-84	Date 5-25-84
Time	Time 0900	Time 1015	Time 1230

PERSONNEL AND SERVICE UNITS

Name	Unit No. & Type	Location
G. Scarbrough	39798	Glendive
R. Horner	2201-5941	"
D. Hunter	2250-7567	"

Cmt. Squeeze & PTA

X Bill Cmt

G. Scarbrough

CEMENT DATA

					Neat	1.15	15.8
					Neat	1.15	15.8
					Neat	1.15	15.8
					Neat	1.15	15.8

REMARKS

Set Cmt Plug

HALLIBURTON

WORK ORDER CONTRACT AND PRE-TREATMENT DATA

FORM 1911-G4

ATTACH TO INVOICE & TICKET NO. 804967

DISTRICT Glendive DATE 5-23-84

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO TXO AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. A-1 SWD-1 LEASE Buckles SEC. 22 TWP. 28N RANGE 51E

FIELD COUNTY Roosevelt STATE MT OWNED BY SAME

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME TYPE

FORMATION THICKNESS FROM TO

PACKER: TYPE Baker AD-1 SET AT 685

TOTAL DEPTH MUD WEIGHT

BORE HOLE

INITIAL PROD: OIL BPD, H2O BPD, GAS MCF

PRESENT PROD: OIL BPD, H2O BPD, GAS MCF

	New/Used	Weight	Size	From	To	Size Hole Made
Casing	U	17	7	KB	850	
Liner					829	
Tubing	4	6.5	2 7/8	KB	685	
Open Hole						Shots/Ft.
Perforations				785	846	4
Perforations						
Perforations						

PREVIOUS TREATMENT: DATE TYPE MATERIALS

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ☐ ANNULUS ☐ CASING ☐ TUBING/ANNULUS ☒ HYDRAULIC HORSEPOWER ORDERED

Squeeze & PTA

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS AND SERVICES

THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THIS JOBS AS CUSTOMER'S AGENT

SIGNED T. Smith DATE 5-23-84

410

MAR02-0113

1230							[illegible]
[illegible]							FRESH H_2O
[illegible]							MIX CMT 35 SKS "G" w/ WEAT
[illegible]							DISP
[illegible]							PULL TAG
[illegible]							FRESH H_2O
[illegible]							MIX 30 SKS "G" 60'
[illegible]							CMT TO SURFACE
[illegible]							5 SKS FOR GROUND
1[illegible]							JOB COMPLETE

HALLIBURTON SERVICES

JOB LOG

WELL NO. 1 LEASE SWD SHOT NO. 80

CUSTOMER TXO

JOB TYPE Squeeze DATE 5-23-84

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	0900							[illegible] Rig up
	1015					2000		Test wellhead + pump + lines
	1040	4	20			500		20 Fresh H2O
	1045	3	5			400		mix + pump cmt 25 sks
	1051	2				200	100	disp w/ Fresh
	1055		5.5			350	100	stage
	1110	.25				250	100	pump
	1111		5.75			270	100	stage
	1127	.25				250	100	pump
	1128		6.00			270	100	stage
	1235	.25				240	100	pump
	1236		6.25			270	100	stage
	1309	.25				200	100	pump
	1310		6.50			250	100	stage
	1330		9			300	100	pump to bottom Perf
	1345	3	5			450	100	mix + pump cmt
	1352	1				150	100	disp to squeeze w/ Fresh H_2O
	1357		5			450	100	stage
	1413	.25	5.25			300	100	pump
	1415		5.25			400	100	stage
	1445	.25				250	100	pump
	1446		5.5			600	100	stage
	1457					500		press on squeeze less than 1/8 bbl
	1458					800	650	stage, have communication w/ [illegible]
	1528					550	600	press
	1529					900	850	stage
	1543					0	0	Bleed off press. squeeze holding
	1546					1000	1000	press squeeze
						500	500	bleed off,
	1600							Shut in well, Released

Buckles SWD Well

Plugging Procedure

1.) MIRU Workover Unit

2.) Squeeze 25 sxs Cement Into Perfs.

3.) Release Packer, and Spot 25 sxs Cement Plug @ 685'

4.) Tooh w/ 2 7/8" Tubing and Spot 10 sxs Cement Plug @ surface

5.) Cut Surface Casing 4' Below Surface

6.) Weld Cap, Bury, And Do Not Leave Dry Hole Marker

7.) Release Rig

8.) Transfer Tubulars And Surface Equipment To Raymond Yard.

MAR-114

MAR02-0114

	Buckles SWD	Roosevelt County, M.

Plugging Cost

Workover Rig	$ 200
Supervision	$ 50
Welder	$ 12
CIBP	$ 65
Cementing	$ 200
Total Plugging Cost	$ 527

NATIONAL 42-381 50 SHEETS 5 SQUARE 42-382 100 SHEETS 5 SQUARE 42-389 200 SHEETS 5 SQUARE

	Buckles SWD #1	Roosevelt County Montana

Salvage Value

Tubing Head 'Huber' 7" x 2 7/8" Type HFC	$103
Portable Inj. Plant w/J-60 triplex pump S/N7146 w/3" plungers	$20,903
Chemical Pumps 3/8" single head pump w/ 1/3 hp elec. motor S/N w 4851	$500
2 1/2" EUE 2000# valve	$461
Total Txo Value	$21,967

Txo WI = 100%

MAR-116

MAR02-0116

TEXAS OIL & GAS CORP.
1800 LINCOLN CENTER BUILDING
DENVER, COLORADO 80264

TELEPHONE (303) 861-4246

November 26, 1980

U.S. Geological Survey
Post Office Box 2550
Billings, Montana 59103

Re: Preliminary Environmental Reviews
Buckles "B" #1, et. al.
Section 22-T28N-R51E
Roosevelt County, Montana

Gentlemen:

Texas Oil & Gas Corp. request a Preliminary Environmental Review for proposed wells in Section 22-T28N-R51E. Locations of the proposed wells are as follows:

Buckles "A" #1	CSE/NW Section 22
Unnamed Offset #1	CSW/NW Section 22
Unnamed Offset #2	CNW/NW Section 22
Unnamed Offset #3	CNE/NW Section 22

A photocopy of a portion of the Badger Creek and Poplar NE, Montana USGS 7.5 topographic maps is attached on which the proposed well locations and access roads are illustrated.

The proposed wells lie within the boundary of the Fort Peck Indian Reservation. Texas Oil & Gas Corp. has received a lease for oil and gas development on the lands indicated and has established initial contact with the BIA Superintendent, Ft. Peck, Poplar, Montana. Permission to proceed with the permit process was received.

We would appreciate an expeditious response to this request so that survey staking and other reconnaissance work can be completed prior to snowcover. If you have any questions or need additional information, please contact either John Gilbert (406) 248-4330 or me (303) 861-4246.

Very truly yours,

TEXAS OIL & GAS CORP.

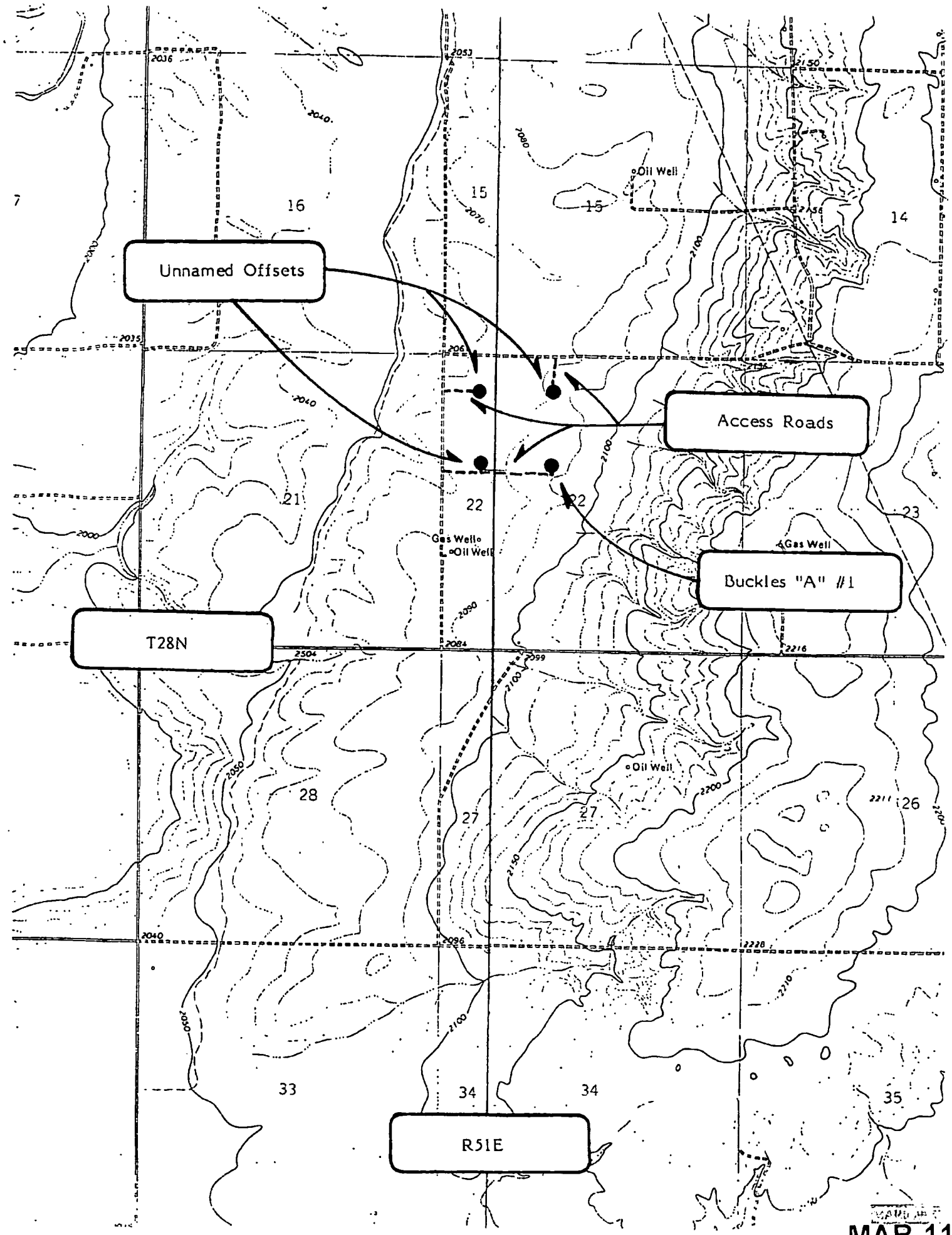
Charles K. Curlee

Charles K. Curlee
Environmental Administrator

CKC/bs
Enclosure/as stated
cc/John Gilbert, Billings TXO

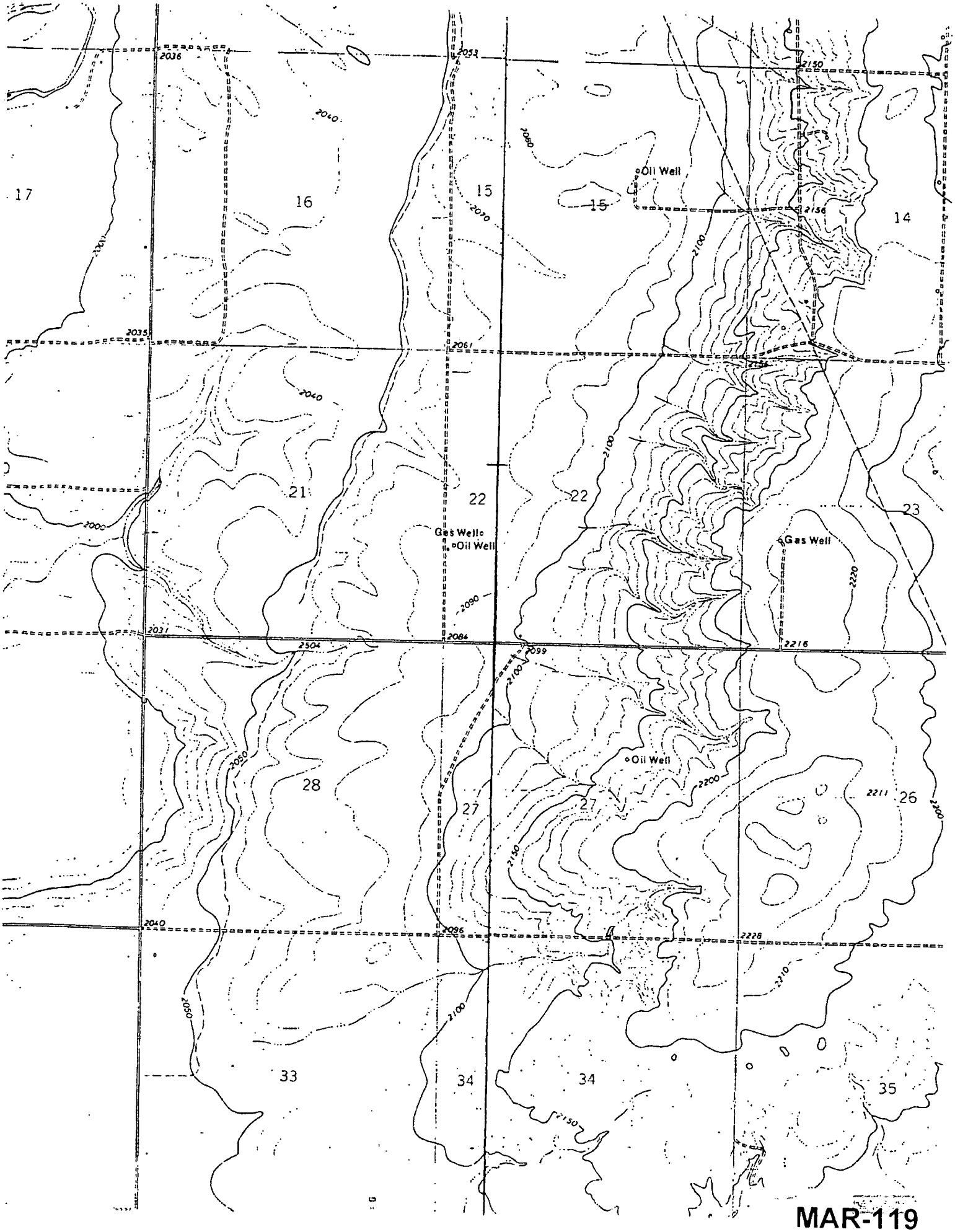
MAR02-0117

MAR-117



MAR-118

MAR02-0118



MAR-119

MAR02-0119

TEXAS OIL & GAS CORP.
1800 LINCOLN CENTER BUILDING
DENVER, COLORADO 80264

TELEPHONE (303) 861-4246

May 4, 1981

Bureau of Indian Affairs
Superintendent, Ft. Peck
Post Office Box 637
Poplar, Montana 59255

Attention: Ms. Francis Eagleman

Re: Preliminary Environmental Review
Buckles "B" #1
Section 22-T28N-R51E
Roosevelt County, Montana

Dear Ms. Eagleman:

Enclosed for your use is a copy of the Preliminary Environmental Review request letter that Texas Oil & Gas Corp. filed with the Billings USGS regarding the above referenced proposed oil and gas development on the Ft. Peck Indian Reservation.

If you have any questions concerning the enclosure, please contact me at this office.

Very truly yours,

TEXAS OIL & GAS CORP.

Paul Urban
Environmental Scientist

PU/bs
Enclosure/as stated

MAR02-0120

MAR-120

EWF

TEXAS OIL & GAS CORP.
1800 LINCOLN CENTER BUILDING
DENVER, COLORADO 80264

TELEPHONE (303) 861-4246

May 4, 1981

U.S. Geological Survey
Post Office Box 2250
Billings, Montana 59103

Re: Buckles "B" #1
Section 22-T28N-R51E
Roosevelt County, Montana

Gentlemen:

Texas Oil & Gas Corp. requests a Preliminary Environmental Review for the above-mentioned well. A photocopy of a portion of the Badger Creek and Poplar NE, Montana USGS 7.5 topographic maps on which the proposed well location and access road are illustrated are attached.

The proposed wells lie within the boundary of the Ft. Peck Indian Reservation. Texas Oil & Gas Corp. has received a lease for oil and gas development on the lands indicated and has established initial contact with the BIA superintendent, Ft. Peck, Poplar, Montana. Permission to proceed with the permit process was received.

We request permission to proceed with survey staking and archeological work for this well prospect.

If you should have any questions regarding this request, please contact me at this office.

Very truly yours,

TEXAS OIL & GAS CORP.

Paul Urban

Paul Urban
Environmental Scientist

PU/bs
Enclosures/as stated

MAR02-0121

MAR-121

TEXAS OIL & GAS CORP.
1800 LINCOLN CENTER BUILDING
DENVER, COLORADO 80264

TELEPHONE (303) 861-4246

June 1, 1981

Powers Elevation
Post Office Box 1611
Williston, North Dakota 58801

Attention: Leo Horgan

Re: Buckles "B" #1
Buckles "B" #2
Section 22-T28N-R51E
Roosevelt County, Montana

Dear Mr. Horgan:

This is to confirm Texas Oil & Gas Corp.'s request to stake the above-mentioned well locations. As we discussed on 29 May 1981, the Buckles "B" #1 well location is in the center of the NW/NE of Section 22 (660' FNL, 1980' FEL); the Buckles "B" #2 is in the center of the SW/NE of Section 22 (1980' FNL, 1980' FEL). Because these two well locations will require federal permits, we request pad diagrams showing cut and fill at the respective corners, cross sections sheets and an estimate of earth moving volumes, in addition to the regular survey plat sheets. The required pad size will be the same as those staked for the Buckles "A" #1 and "A" #2. Please send the survey information to me at this office.

If you have any questions or need additional information, please contact me at (303) 861-4246.

Very truly yours,

TEXAS OIL & GAS CORP.

Charles K. Curlee

Charles K. Curlee
Environmental Administrator

CKC/BS
cc/Leo Heath, TXO Billings

MAR02-0122

MAR-122

TEXAS OIL & GAS CORP.

Inter-Office Memorandum

Date: December 1, 1981

To: Rick Walworth/Kim Scott
Leases & Contracts
Dallas

From: Montana Project

Re: CHECK REQUEST

Please prepare a check in the amount of $5,500.00

Payable to: Bureau of Indian Affairs
P.O. Box 637
Poplar, Montana 59255

For: [ ] Bonus consideration for oil & gas lease
[ ] Competitive lease bid
[X] Other Surface damages - Location & Road (See remarks)

Re: Lease # 46665-000 /Description: W½NE¼, 22-28N-51E
Lessor:
Lessee:
Net Acres:
Price per acre:
Prospect/Area: East Poplar 0202081
County/State: Roosevelt County, Montana
Broker:

Other instructions/Remarks: Return check to W.H. Helmer

Buckles B-1	AFE #811217	Property #92287	$3,500.00
Buckles B-2	Location prepared		$2,000.00

Requested by Warren H. Helmer

APPROVED: W. H. Helmer, Project Land Manager

APPROVED: R. M. Becker, Project Manager

12/18/81

cc: Loretta Schwehr

MAR-123

MAR02-0123

CERTIFIED MAIL
RETURN RECEIPT REQ NTED

TEXAS OIL & GAS CORP.
2705 MONTANA AVENUE · SUITE 300
406 · 248 · 4330
BILLINGS, MONTANA 59101

December 18, 1981

Bureau Of Indian Affairs
P.O. Box 637
Poplar, Montana 59255

ATTN: Realty Officer

Gentlemen:

Enclosed, please find this office's check in the amount of $5,500.00, which represents full settlement for the damages resulting from drilling of the referenced well on the check.

Please tender Austin S. Buckles $4,500.00 and Robert Kern $1,000.00.

Very truly yours,

TXO PRODUCTION CORP.

Warren H. Helmer
kn

Warren H. Helmer
Project Land Manager

WHH:kn
Enclosure

MAR02-0124

MAR-124

TE...S OIL AND GAS CORP.
FIDELITY UNION TOWER DALLAS, TEXAS 75201

VENDOR 127102 4827 No. 01250

VOUCHER NUMBER	VENDOR REFERENCE INVOICE	VENDOR REFERENCE DATE	DUE VENDOR	VOUCHER NUMBER	VENDOR REFERENCE INVOICE	VENDOR REFERENCE DATE	DUE VENDOR
111095	811217	120881	5,500.00				

Surface Damages - Location & Road
Buckles B-1 3,500.00
Buckles B-2 Location prepared 2,000.00
East Poplar 81 02020, Roosevelt County, Montana
Property #92287 Lease Number 46665-000

By: Warren H. Helmer

TX O-146 TOTAL

ACCOUNTS PAYABLE

TEXAS OIL & GAS CORP. No. 01250

FIDELITY UNION TOWER DALLAS, TEXAS 75201

FIRST NATIONAL BANK IN DALLAS
OR
DALLAS COUNTY STATE BANK

DATE	AMOUNT
12/8/81	**$5,500.00**

PAY TO Bureau of Indian Affairs
P. O. Box 637
Poplar, Montana 59255

R. H. Schwellers

⑈001250⑈ ⑆111922307⑆ 88 0198 7⑈

MAR02-0125

MAR-125

Bureau of Indian Affairs

(Bureau or Office)

Date 4/13/82

Fort PeckAgency, Poplar, Mt. 59255

(Address)

CV#2-C56-1398

PAYER:

Texas Oil & Gas Corp.
2705 Montana Avenue - Suite 300
Billings, Montana 59101

To be issued as official receipt for all cash remittances and for all other remittances when required by applicable procedures.

Date	DESCRIPTION	Quantity	Unit Price Cost	Unit Price Per	Amount
	Road and location damages resulting from drilling well. Contract 14-20-0256-5066.				$5500 00
	Dep.				
	206-A02293 Austin Buckles.....$4500.00				
	206-U05026 Robert H. Kirn.....$1000.00				
	amt.				

TEXAS OIL & GAS CORP.
BILLINGS DISTRICT
APR 15 1982

OFFICIAL RECEIPT

Co. ck. #01250 dtd 12/8/81 in ~~XXX~~ of $5500.00 on 1st Natl. Bk., Dallas, TX.

AMOUNT DUE THIS BILL, $ 5500 00

$ 5500.00

RECEIVED as payment on above bill,

4/13/82 Signature Anita Archdale Title Authorized Collector

MAR02-0126

MAR-126

TEXAS OIL & GAS CORP.

Inter-Office Memorandum

Date: June 19, 1981

To: Leo Heath

Billings

From: Charles K. Curlee

Re: Buckles "B" #1

Attached please find five copies of the Buckles "B" #1 NTL-6 permit. These permits will require Ron Becker's signature, or yours in his absence, on the first page (APD form) and on the last page of the MSUOP. After all five of these permits have been signed, please forward them to the U.S. Geological Survey office in Billings. I have attached a cover letter and envelope. I have also attached a copy of the permit for your use.

CKC CKC

CKC/BS
Enclosures/as stated

MAR02-0127

MAR-127

TEXAS OIL & GAS CORP.
1800 LINCOLN CENTER BUILDING
DENVER, COLORADO 80264

TELEPHONE (303) 861-4246

June 19, 1981

U.S. Geological Survey
Post Office Box 2550
Billings, Montana 59103

Attention: Mr. Tom Richmond

Re: Buckles "B" #1
Section 22-T28N-R51E
Roosevelt County, Montana

Gentlemen:

Enclosed for your review are five copies of an APD package for the above-referenced well. Contained in this package are an Application for Permit to Drill, a 9331-C Addendum (subsurface plan), and a Multipoint Surface Use and Operation Plan.

We would appreciate an expeditious review of this application due to rig commitments we have made. If you have any questions or need additional information, please contact either Leo Heath in our Texas Oil & Gas Corp. Billings office (406/248-4330) or myself (303/861-4246).

Very truly yours,

TEXAS OIL & GAS CORP.

Charles K. Curlee

Charles K. Curlee
Environmental Administrator

CKC/BS
Enclosures/as stated

MAR02-0128

MAR-128

REHABILITATION PLAN

Contract # Lease No.: 14-20-0256-5439 ; Well Name and No.: Buckles "B" #1

Subdivision: 1980' FNL 1980 FEL , Section 22 , T. 28 N., R. 51 XE.

County Roosevelt , State Montana

Texas Oil & Gas Corp. Oil Company intends to drill a well on surface owned by Austin S. Buckles The lessee/operator agrees to complete the following rehabilitation work if the well is a producer:

/X/ Yes / / No Maintain access road and provide adequate drainage from road.

/X/ Yes / / No Reshape and seed any area not needed for maintenance of the production facilities.

Other requirements: [illegible]

The following well will be completed [illegible] the well is a [illegible]:

[illegible]

/X/ Yes / / No Pit will be [illegible] filled to conform to surrounding topography.

/X/ Yes / / No Water bars will be [illegible] as deemed necessary.

/X/ Yes / / No Site will require reshaping to conform to surrounding topography.

/ / Yes /X/ No Entire disturbed area will be seeded with the following seed mixture:

No, as acreage is cultivated land

[illegible]

/ / Yes / / No * [illegible] road will be closed, [illegible] and seeded using [illegible] seed mixture [illegible].

/ / Yes / / No * [illegible] road as deemed [illegible].

[illegible] * at owners option

[illegible]		[illegible]	
Name:	Austin S. Buckles	Name:	Texas Oil & Gas Corp.
Address:	P.O. Box 252	Address:	2705 Montana Avenue, Suite 300
City:	Poplar	City:	Billings
State:	Montana, 59255	State:	Montana, 59101
Phone:		Phone:	(406) 248-4330
Date:	June 27, 1981	Date:	

I CERTIFY rehabilitation has been discussed [illegible] the surface owner:

X Howard Helmer
Howard Helmer

X Audrey Buckles
Audrey Buckles

Austin S. Buckles
Right Thumb Print
(Surface owner's signature)

This plan covers rehabilitation requirements only and does not affect any other agreements between the lessee/operator and surface owner.

[illegible]

MAR-129

MAR02-0129

PROOF OF POSSESSION

STATE OF Montana
COUNTY OF Roosevelt } SS. (TO BE EXECUTED BY DISINTERESTED PARTY)

The undersigned, of lawful age, being first duly sworn, deposes and says: That Austin R. Buckles is the owner of the following described land in Roosevelt County, Montana, to-wit:

Township 28 North, Range 51 East
Section 22: W½NE¼

The undersigned further says that he is familiar with said land and that he knows that said owner has been in the actual open, peaceable and undisturbed possession of all of said land and that no other person claims or occupies said land adversely to said owner and that said owner has possession of said land as follows:

This land is not fenced, there are no improvements of any kind such as churches, schools, railroads, power lines. The land is currently being utilized by strip farming with wheat.

(Here insert whether owner actually resides upon said land or held by tenant, or otherwise; and if by tenant, the name and nature and extent of such tenancy. Show extent of improvements on the land and where made. Also note if there are any churches, schools, railroads, or improvements on the land and not owed by the owner. Also give a history of the possession of said land for the past ____ years.)

Disinterested third party x Kenneth Helen

Subscribed and sworn to before me this 27 th day of June, 19 81.
My commission expires HOWARD HELMER NOTARY PUBLIC for the State of Montana Residing at Billings, Montana My Commission Expires Feb. 4, 1982

x Howard Helmer
Notary Public
Residing At

STATE OF Montana
COUNTY OF Roosevelt } SS. Farm Lease (TO BE EXECUTED BY TENANT)

The undersigned, of lawful age, being first duly sworn, deposes and says: That he occupies the above described land as tenant of Austin R. Buckles, the owner thereof: that he became such tenant on the 1st day of January, 19 81, and that his tenancy is for 5 years and will expire on the 31st day of December, 19 85. That he claims no title to said land other than as tenant as aforesaid, and does hereby state and declare that his right to possession in no way interferes with the right of said owner to lease said lands for oil and gas development purposes, and that his possession as tenant is subject to the rights of any lessee or assignee under any oil and/or gas lease executed by such owner.

x Robert H. Kirn
Robert H. Kirn

Subscribed and sworn to before me this 27 th day of June, 19 81
My commission expires HOWARD HELMER NOTARY PUBLIC for the State of Montana Residing at Billings, Montana My Commission Expires Feb. 4, 1982

Howard Helmer
Notary Public

STATE OF Montana
COUNTY OF Roosevelt } SS. (TO BE EXECUTED BY OWNER)

The undersigned, of lawful age, being first duly sworn, deposes and says: That he is the owner of said above described lands, and that he has read the above and foregoing affidavits and certificates and personally knows that the statements made therein are true and correct, and he has owned and been in possession of the above described land for 9 years.

Witnesses: x Audrey Buckles
Audrey R. Buckles

Right Thumb Print
x
Austin R. Buckles
(Address)

Subscribed and sworn to before me this 27 th day of June, 19 81
My commission expires HOWARD HELMER NOTARY PUBLIC for the State of Montana Residing at Billings, Montana My Commission Expires Feb. 4, 1982

Howard Helmer
Notary Public

UL-1

MAR-130

MAR02-0130

AFFIDAVIT OF IDENTITY

STATE OF Montana }
} ss
COUNTY OF Roosevelt }

Howard Helmer, of lawful age and being first duly sworn upon his oath, deposes and says:

That (X)he is well acquainted with Austin S. Buckles, resident of Poplar, Montana, and that such acquaintanceship extended over a period of 35 years.

That (X)he is familiar with the land situated in Roosevelt County, State of Montana, described as follows:

Township 28 North, Range 51 East
Section 22: W½NE¼

That Austin S. Buckles, owns an interest in the above described lands is one and the same person as Austin R. Buckles, and is known by such names and uses such names in signing instruments and in transacting business.

That affiant is informed that the name of the person hereinabove mentioned appears in the records of said county relating to the above described lands as follows:

As Austin R. Buckles in that certain instrument recorded in Book 110 Deeds at Page 61.

As Austin S. Buckles in that certain instrument recorded in Book 412 Deeds at Page 265-270.

Further affiant sayeth not.

Howard Helmer

Subscribed and sworn to before me this 10th day of July, 19 81.

My commission expires 2-27-83.

John P. Gilbert
Notary Public for the
State of Montana
Residing at Billings, MT

MAR02-0131

MAR-131

TEXAS OIL & GAS CORP.
2705 MONTANA AVENUE · SUITE 300
406 · 248 · 4330
BILLINGS, MONTANA 59101

July 6, 1981

Mr. Austin R. Buckles
P.O. Box 252
Poplar, Montana 59255

RE: Notice of Intent to Drill
Buckles "B" #1
Roosevelt County, Montana

Dear Mr. Buckles:

This letter is to advise that Texas Oil & Gas Corp. will commence drilling a 6,000' Madison test in the near future on the NW¼NE¼ of Section 22, Township 28 North, Range 51 East, Roosevelt County, Montana.

Arrangements will be made with Mr. Robert H. Kirn for access.

Additionally, I have enclosed for your personal files, copies of the Rehabilitation Plan and Proof of Possession form previously executed.

Very truly yours,

TEXAS OIL & GAS CORP.

John P. Gilbert

John P. Gilbert
Area Landman

JPG:kn
Enclosure

cc: Leo Heath

TEXAS OIL & GAS CORP.
2705 MONTANA AVENUE - SUITE 300
406 - 248 - 4330
BILLINGS, MONTANA 59101

July 7, 1981

Board of Oil & Gas Conservation
State of Montana
2535 St. John's Avenue
Billings, MT 59102

Re: Intention to Drill
Buckles "B" #1
Sec. 22, T28N, R51E
Roosevelt County, Montana

Gentlemen:

Enclosed you will find the original and three copies of the "Intention to Drill" with check #69261 in the amount of $25.00 for the above mentioned well.

Thank you.

Sincerely,

TEXAS OIL & GAS CORP.

Leo A. Heath (blj)

Leo A. Heath
Project Engineer

LAH/blj

Enclosures

MAR02-0133

MAR-133

TEXAS OIL & GAS CORP.

No. 69261

FIDELITY UNION TOWER DALLAS, TEXAS 75201

REGULAR ACCOUNT
FIRST NATIONAL BANK IN DALLAS
DALLAS, TEXAS

32-1
1110

DATE	AMOUNT
7/2/81	**$25.00**

PAY TO Board of Oil & Gas Conservation
State of Montana
2535 St. John's Avenue
Billings, MT 59102

AUTHORIZED SIGNATURE

⑈069261⑈ ⑆111000012⑆ 07 3369 1⑈

MAR02-0134

MAR-134

DATE REQUESTED June 24, 1981 DATE REQUIRED ASAP AMOUNT $ 25.00

PAYABLE TO: Board of Oil & Gas Conservation
State of Montana

ADDRESS 2535 St. John's Avenue
Billings, MT 59102

FOR Buckles "B" #1
Section 22 T28N R51E
Roosevelt County, Montana

Drilling Permit

BILLING INSTRUCTIONS
(TO BE COMPLETED PRIOR TO APPROVAL)

TXO-

☐ PRODUCING ASSET ACQUISITION ☐ UNDEVELOPED LEASE ACQUISITION ☐ OTHER

MEMORANDUM	ACCOUNT	T/C	LSE. NO.	WELL	AMOUNT

CHECK REQUEST

TXO-42

REQUESTED BY Leo A. Heath, Project Engineer

APPROVED R M Becker

RETURN CHECK TO Leo A. Heath, Texas Oil & Gas Corp.
2705 Montana Ave. Suite 300
Billings, MT 59101

MAR02-0135

MAR-135

TEXAS OIL & GAS CORP
BILLINGS DISTRICT

file

TEXAS OIL & GAS CORP.

JUL 27 1981

Inter-Office Memorandum

Date: July 22, 1981

To: Leo Heath
Billings

From: C.K. Curlee

Re: Buckles "B" #1
Section 22-T28N-R51E
Roosevelt County, Montana

Enclosed for your information and files are the following:

1) Memo documentation of the on-site inspection held 8 July 1981.

2) Sundry Notice and cover letter submitted to the USGS regarding potential H_2S hazard.

If you have any questions or comments, please advise.

CKC CKC

CKC/BS
Enclosures/as stated

MAR02-0136

MAR-136

TEXAS OIL & GAS CORP.
1800 LINCOLN CENTER BUILDING
DENVER, COLORADO 80264

TELEPHONE (303) 861-4246

July 9, 1981

Mr. Warren Korinek
Environmental Scientist
U.S. Geological Survey
Post Office Box 2550
Billings, Montana 59103

Re: Buckles "B" #1
Section 22-T28N-R51E
Roosevelt County, Montana

Dear Mr. Korinek:

Enclosed for your use is a Sundry Notice, submitted in triplicate, regarding a modification to the subsurface plan for the above-referenced well. This modification is submitted at your request, as discussed during the joint on-site inspection for the location on July 8, 1981.

If you have any questions or need additional information, please contact either Leo Heath in our TXO Billings office (406-248-4330) or me at 303-861-4246.

Very truly yours,

TEXAS OIL & GAS CORP.

Charles K. Curlee

Charles K. Curlee
Environmental Administrator

CKC/BS
Enclosures/as stated
Express Mail No. B49381645

EWF

TEXAS OIL & GAS CORP.

Inter-Office Memorandum

Date July 14, 1981

To: Charlie Curlee
Denver

From: Leo A. Heath

Re: Buckles B #1 Well

Enclosed you will find the Application for Permit to Drill for the Buckles "B" #1 well.

LAH

RECEIVED
JUL 16 1981
TEXAS OIL & GAS CORP.
DENVER DISTRICT

LAH/blj

Enclosure

MAR02-0138

TXO-81

MAR-138

TEXAS OIL & GAS CORP.
2705 MONTANA AVENUE - SUITE 300
406 - 248 - 4330
BILLINGS, MONTANA 59101

July 15, 1981

Board of Oil & Gas Conservation
State of Montana
2535 St. John's Avenue
Billings, MT 59102

Re: Buckles "B" #1 Well
Sec. 22, T28N, R51E
Roosevelt County, Montana

Gentlemen:

Enclosed you will find check #220 in the amount of $50.00 which is the additional fee for the drilling permit for the above mentioned well.

Thank you for your cooperation in this matter.

Sincerely,

TEXAS OIL & GAS CORP.

Leo A. Heath (BLJ)

Leo A. Heath
Project Engineer

LAH/blj
Enclosure

MAR02-0139

MAR-139

No. 220

TEXAS OIL & GAS CORP.
2705 MONTANA AVE., SUITE 300 245-4330
BILLINGS, MT 59101

7-17 1981 93-119/921

PAY TO THE ORDER OF Oil & Gas Commission - State of Montana $ 50 00/

Fifty + 00/100ths DOLLARS

FIRST CITIZENS BANK
1ST AVENUE NORTH AT BROADWAY
BILLINGS, MONTANA 59101
(406) 252-5631

add'l. fee - drilling permit
Buckles "B" #1

Marion L. Taylor

⑆092101195⑆ 127⑈503⑈

MAR02-0140

MAR-140

TEXAS OIL & GAS CORP.

Inter-Office Memorandum

Date: July 22, 1981

To: Leo Heath

Billings

From: C.K. Curlee

Re: Buckles "B" #1
Section 22-T28N-R51E
Roosevelt County, Montana

Enclosed for your information and files are the following:

1) Memo documentation of the on-site inspection held 8 July 1981.

2) Sundry Notice and cover letter submitted to the USGS regarding potential H_2S hazard.

If you have any questions or comments, please advise.

CKC CKC

CKC/BS
Enclosures/as stated

MAR02-0141

MAR-141

TEXAS OIL & GAS CORP.

Inter-Office Memorandum

TEXAS OIL & GAS CORP.
BILLINGS DISTRICT

Date 7/30/81
AUG 3 1981

To: Ron Becker
Billings, Montana

From: Donald Chase

Re: BUCKLES "B" #1
ROSSEVELT COUNTY, MONTANA

Attached is approved AFE No. 811217 to drill and complete the above referenced well. Approval of this AFE is subject to District obtaining Title Approval.

Donald Chase
Donald Chase

DC/wb

cc: Leonard Landrum (2)
Steve Haworth
Ethel Nuttall
Lelah Sartain
Steve Graham
H. Adair
W. Webb
File

MAR02-0142

TXO-81

MAR-142

TEXAS OIL & GAS CORP.
FORM 24
Rev. 9/01/79

AUTHORITY FOR EXPENDITURE
DRILLING WELL

Date July 7, 1981 A [15] Co. Cd.

District Montana/North Dakota Well Name Buckles "B" Well No. 1

Well Location NW, NE, Sec. 22, T28N - R51E Depth 6000'

Field East Poplar County Roosevelt State Montana

Prepared By: H. J. Kagie Submitted By: R. G. Becker Dallas X District

CAT. NO.	NATURE OF EXPENDITURE	QUANTITY	ESTIMATED COST CASH	MAT.L ON HAND	TOTAL
	DRILLING				
01	Casing 8-5/8", 24#, K-55, ST&C	1200'	14,800.00		14,800.00
02	Casinghead		3,200.00		3,200.00
03	Location, Road & Dirt Work		30,000.00		30,000.00
04	Drilling - Footage/Turnkey		120,000.00		120,000.00
05	Drilling - Daywork		20,000.00		20,000.00
06	Drilling - Rig Support		71,000.00		71,000.00
07	Bits		----		----
08	Supervision		5,000.00		5,000.00
09	Overhead		2,000.00		2,000.00
10	Mud & Chemicals		20,000.00		20,000.00
11	Cementing Services & Supplies		20,000.00		20,000.00
12	Testing & Logging		30,000.00		30,000.00
13	Rentals		15,000.00		15,000.00
14	Other IDC		2,000.00		2,000.00
15	Other Equipment		2,000.00		2,000.00
	TOTAL DRILLING		355,000.00		355,000.00
	COMPLETION				
17	Casing 5½", 15.5# & 17.0#, K-55, ST&C	6060'	48,350.00		48,350.00
18	Tubing 2-7/8", 6.5#, J-55, EUE	6010	26,050.00		26,050.00
19	Wellhead		8,000.00		8,000.00
20	Subsurface Equipment		4,000.00		4,000.00
21	Supervision		3,000.00		3,000.00
22	Mud & Chemicals		2,500.00		2,500.00
23	Testing, Logging & Perforating		10,000.00		10,000.00
24	Stimulation		12,000.00		12,000.00
25	Overhead		2,000.00		2,000.00
26	Rentals		5,000.00		5,000.00
27	Service Rig		9,000.00		9,000.00
28	Cementing Services & Supplies		20,000.00		20,000.00
29	Other IDC		3,100.00		3,100.00
	TOTAL COMPLETION		153,000.00		153,000.00
	PRODUCTION EQUIPMENT				
32	Pumping Unit				
33	Engine & Motor				
34	Rods				
35	Flow Lines		10,000.00		10,000.00
36	Meters		2,000.00		2,000.00
37	Installation		40,000.00		40,000.00
38	Storage		16,000.00		16,000.00
39	Separation & Treating		20,000.00		20,000.00
40	Other Equipment		12,000.00		12,000.00
	TOTAL PRODUCTION EQUIPMENT		100,000.00		100,000.00
	TOTALS		608,000.00		608,000.00

TEXAS OIL & GAS CORP.
JUL 24 1981
DALLAS - OPERATIONS

OWNER NAME	WORKING INTEREST	DATE APPROVED
TXO	100%	7-30-81

APPROVED:

MAR02-0143

AFE APPROVAL

Senior VP

AFE No. 811217 Property No. 92287

APPROVED AFE

MAR-143

NOTICE OF PROPERTY NUMBER ASSIGNMENT

TO: Bud Helmer
Billings

From: Pam Foster

Re: Well name & no. : Burkes B 01

Operator: TXO

Location: 22-28N-51E

County & State: Roosevelt / Mont

AFE # (When Applicable): 811217

Property Number Assigned: 5132287

Requested by: Barbie Jacobs 07-22-81

Reason required and/or remarks: NEW DEVELOPMENT WELL

Note! If number assigned herewith replaces a number previously assigned to this well, the number being replaced was
#_____.

cc: Donald Chase
Paul Guillory
Ethel Nuttall
Lelah Sartain
Joyce Young
Jan Cason
Joe Peterson
Barbie Jacobs

TEXAS OIL & GAS CORP.
BILLINGS DISTRICT
AUG 6 1981

MAR02-0144

MAR 144

TEXAS OIL & GAS CORP.
2705 MONTANA AVENUE - SUITE 300
406 - 248 - 4330
BILLINGS, MONTANA 59101

August 4, 1981

Mr. Kneelon Teague
P. O. Drawer K
Shelby, Montana 59474

RE: TXO Pearson #1
TXO Buckles "B" #1
TXO Alexander "B" #1

Dear Mr. Teague,

I have enclosed the prognosis, type log and location map for each of the above referenced wells. We will be spudding the Pearson #1 on or about August 7th and I would like your man on location at approximately 5000' drilling depth (about August 13th). In addition, we will be drilling the Buckles "B" #1 concurrently. We plan to spud it on August 10th and your man should be there about August 16th. I will keep you posted as to the progress of these wells.

Please instruct each of your geologists to call in the morning report to me by 9:00 A.M. Billings time. This report should include depth drilling or other rig activity, formation tops, sample and mud gas shows, mud properties and any drilling breaks.

Sincerely yours,

TEXAS OIL & GAS CORP.

Michael Walen

Michael B. Walen
Project Geologist

MBW/dg

TEXAS OIL & GAS CORP.
2705 MONTANA AVENUE · SUITE 300
406 · 248 · 4330
BILLINGS, MONTANA 59101

August 4, 1981

Mr. Harold Levin
Analex Logging
910 Sixteenth Street, #522
Denver, Colorado 80202

RE: TXO Pearson #1
TXO Buckles "B" #1
TXO Alexander "B" #1

Dear Mr. Levin,

I have enclosed the well prognosis for each of the above referenced wells. Specified instructions and distribution lists are noted on each prognosis. The Pearson #1 will be spudded on August 7th and we would like you on location about August 13th at approximately 5000 feet. The Buckles "B" #1 will spud on August 10th and you should be on location about August 16th. The Alexander "B" #1 will be spudded about August 25th. In any event I will keep you posted as to our progress.

Very truly yours,

TEXAS OIL & GAS CORP.

Michael B. Walen

Michael B. Walen
Project Geologist

MBW/dg

MAR02-0146

MAR-146

INSTRUCTIONS

Buckles "B" #1

1. On location at 5000' drilling depth.

2. 2 ft. drilling time log.

3. 30 ft. samples - Base Surface Casing to 5300'
   10 ft. samples - 5300' to TD.

4. Prepare 2 dry sample cuts and 1 wet cut. Send 1 dry cut and the wet cut to Texas Oil & Gas Corp. in Billings. Send the other dry cut to the Montana Oil & Gas Commission in Billings, Montana.

5. Send one copy of each mudlog page as it is completed to Texas Oil & Gas Corp. in Billings.

DISTRIBUTION

Buckles "B" #1

Texas Oil & Gas Corp. 2705 Montana Avenue, Suite 300 Billings, Montana 59101 ATTN: Mike Walen	4 Prints
Board of Oil & Gas Conservation 2535 St. John's Avenue Billings, Montana 59102	3 Prints
Dorrance D. Steele Oil & Gas Supervisor Fort Peck Agency Box 637 Poplar, Montana 59255	1 Print

TEXAS OIL & GAS CORP.
2705 MONTANA AVENUE - SUITE 300
406 - 248 - 4330
BILLINGS, MONTANA 59101

August 14, 1981

U.S. Dept. of Interior
Geological Survey
P.O. Box 2550
Billings, MT 59103

ATTN: District Engineer

RE: Buckles "B" #1
Section 22 T18N R51E
Roosevelt County, MT

Dear Sir:

Enclosed you will find the original and two copies of the Sundry Notices and Reports on Wells for the above mentioned well.

Thank you.

Sincerely,

TEXAS OIL & GAS CORP.

Leo A. Heath

Leo A. Heath
Project Engineer

LAH/blj
Enclosures

MAR02-0149

MAR-149

8345
8-21-81

SCHLUMBERGER WELL SERVICES
A DIVISION OF SCHLUMBERGER TECHNOLOGY CORPORATION
HOUSTON, TEXAS 77001

PLEASE REPLY TO
SCHLUMBERGER WELL SERVICES

P.O. BOX 908
WILLISTON, NORTH DAKOTA
58801

TEXAS OIL AND GAS CORPORATION
2705 MONTANA AVENUE, SUITE 300
BILLINGS, MONTANA 59101
Attention: MIKE WALEN

Gentlemen:

Enclosed are 4 prints of the DLL, MSFL, FDC, CNL, on:
Company TEXAS OIL AND GAS CORP.
Well BUCKLE B. NO. 1
Field EAST POPLAR County ROOSEVELT State MONTANA

Additional prints are being sent to:

2 prints
BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHN'S AVENUE
BILLINGS, MONTANA 59102

prints

1 prints
DORRANCE D. STEELE
OIL AND GAS SUPERVISOR
FORT PECK AGENCY
BOX 637
POPLAR, MONTANA 59255

prints

prints

prints

prints

prints

prints

The film is SENT TO

TEXAS OIL AND GAS CORP.
2705 MONTANA AVENUE, SUITE 300
BILLINGS, MONTANA 59101
ATTN: MIKE WALEN

We appreciate the privilege of serving you.

Very truly yours,
SCHLUMBERGER WELL SERVICES
P.O. BOX 908
WILLISTON, NORTH DAKOTA 58801
DISTRICT MANAGER

SWS-1327-E

MAR-150

MAR02-0150

kneelon e. teague **petroleum geologist**

shelby, montana 59474

P. O. BOX K PHONE (406) 434-2047

August 31, 1981

Texas Oil and Gas Corp.
2705 Mt. Ave. - Suite 300
Billings, Montana 59101

TEXAS OIL & GAS CORP.
BILLINGS DISTRICT

SEP 1 1981

Attention: Mike Walen

Re: Buckles "B" #1
C NW NE Section 22-28N-51E
Roosevelt County, Montana

Enclosed herewith please find eight (8) copies of the well history for the above named well.

As mentioned in my letter of last week, drill time logs will be coming to you directly from Billings Blueprint in Billings, Montana for this well.

TEAGUE GEOLOGICAL, INC.

Kneelon E. Teague

BY:
Kneelon E. Teague By GK
Petroleum Geologist

/gk
Enc: 8 sets

MAR02-0151

MAR-151

TEXAS OIL & GAS CORP.
2705 MONTANA AVENUE · SUITE 300
406 · 248 · 4330
BILLINGS, MONTANA 59101

August 25, 1981

U.S. Dept. of Interior
Geological Survey
P.O. Box 2550
Billings, MT 59103

Attn: District Engineer

Re: Buckles "B" #1
Section 22, T18N, R51E
Roosevelt County, MT

Dear Sir:

Enclosed you will find an original and two copies of the "Sundry Notice and Reports on Wells" for the subject well.

Thank you.

Sincerely,

TEXAS OIL & GAS CORP.

H. J. Kagie

H.J. Kagie
Drilling Engineer

HJK/blj

Enclosures

cc: File
HJK
LAH

MAR02-0152

MAR-152

INTERSTATE ENGINEERING, INC.
P. O. Box 648
SIDNEY, MONTANA 59270

(406) 482-5617

LETTER OF TRANSMITTAL

file

DATE	JOB NO.
9/30/81	81-2-237

ATTENTION: Leo Heath

RE: Section 22, T28N, R51E
Roosevelt County, Montana

TEXAS OIL & GAS CORP.
BILLINGS DISTRICT
OCT 2 1981

TO 2705 Montana Ave.
Suite 300
Billings, Montana 59101

WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via _____ the following items:

☐ Shop drawings ☒ Prints ☐ Plans ☐ Samples ☐ Specifications
☐ Copy of letter ☐ Change order ☐ _____

COPIES	DATE	NO.	DESCRIPTION
3	9/30/81		Buckles B #1 Oilwell Grade Elevation

THESE ARE TRANSMITTED as checked below:

☐ For approval ☐ Approved as submitted ☐ Resubmit _____ copies for approval
☒ For your use ☐ Approved as noted ☐ Submit _____ copies for distribution
☒ As requested ☐ Returned for corrections ☐ Return _____ corrected prints
☐ For review and comment ☐ _____
☐ FOR BIDS DUE _____ 19 _____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS Enclosed find 3 copies of Buckles B #1 Oil well grade elevation of 2096 at given location of 660' F.N.L. and 1980' F.E.L. in Section 22, T28N, R51E in Roosevelt County, Montana.

Thanks

MAR02-0153

COPY TO _____

SIGNED: [signature]

PRODUCT 240-2 NEBS Inc. Groton Mass 01450

If enclosures are not as noted, kindly notify us at once.

MAR-153

TO: OPERATIONS FILE CLERK FROM: Pam Philips

RE: WELL FILE INITIATION DATA SHEET DATE: 10-12-81

DISTRICT: Montana

WELL NAME & NO. Buckles B-1 OPERATOR: TXO

COUNTY & STATE Roosevelt Co., Montana

LOCATION (S-T-R): 22-28N-51E PROPERTY NO.: 92287

AFE NO.: 811217 PTD: 6000'

TXO WI? Yes X No____ If "Yes", what is TXO WI 100%

TXO FARMOUT? Yes____ No____

MAR02-0154

MAR-154

WELL SERVICING REPORT

AREA Billings, MT.

TEXAS OIL & GAS CORP
BILLINGS DISTRICT

LEASE Buckles WELL NO. B-1 DATE

TYPE JOB

PUMP CHANGE ROD TBG. SWAB

OTHER

UCT 14 1981

REASON FOR JOB No Oil

DESCRIPTION

EQUIPMENT CONDITION

TRIED THREE (3) SQUEEZE JOBS @ 5806-5808 No SQUEEZE
PERF @ 5808-5806 - 200gal SPEARHEAD No RESULTS
500 gal. SPEARHEAD + Apollo 40 (200gal) + 300# WESTBLOCK III, + 9 BALLS. RATE 1.6-3 bbl/min
FORMATION BROKE @ 8200# ISDP. 650# Flowing RESTRICTION 8/64 CHOKE
@ 880-300# TANK GAUGE 6'7"

TUBING	NUMBER	SIZE	FEET	
TBG. JTS.	186	2 7/8	5735'	GOOD
TBG. SUBS	—			

TBG. ANCHOR MAKE & DESC.

TBG. BELOW ~~ANCHOR~~ PACKER 1 JT. 31.1'

SEATING NIPPLE SET AT

PERF. SUB OR SLEEVE

MUD ANCHOR OR (TAIL PIPE) 1 JT. 31.1 5766'

PACKER TYPE BASIN MODEL R 10,000# SET ON JT. SET AT 5735' SHOT

TBG. STUNG INTO PKR. OR HANGING FREE

TOTAL TBG. 187 JTS.

STATE ANY CHANGE MADE IN TBG. STRING 10' TUBING NOT RERUN No SOFT Nipple

RODS	NUMBER	SIZE	FEET	
ROD				
ROD				
ROD				
ROD SUB				
ROD SUB				
POLISH ROD				
TOTAL RODS				

STATE ANY CHANGE IN ROD STRING

PUMP

PUMP TYPE

TYPE HOLD DOWN OR ANCHOR

CONDITION OF PUMP PULLED

STATE ANY CHANGE MADE IN PUMP

WELL SERVICE CONTRACTOR: HRS. ON JOB

ESTIMATED COST OF JOB $

REMARKS

MAR02-0155

REPORTED BY W. Dyer

MAR-155

TEXAS OIL & GAS CORP.
2705 MONTANA AVENUE · SUITE 300
406 · 248 · 4330
BILLINGS, MONTANA 59101

December 4, 1981

Mr. William MacPheat
U.S. Dept. of Interior
Geological Survey
P.O. Box 2550
Billings, MT 59103

Re: Buckles "B" #1
Lease #14-20-0256-5439
Roosevelt County, Montana

Dear Mr. MacPheat:

This letter is to update your files concerning the subject well. Buckles "B" #1 is shut-in and temporarily abandoned until such time as we are certain of having no further use for the wellbore.

Upon completion in the Charles "C" zone, the well tested non-commercial amounts of oil and water. We do however, intend to keep the well as temporarily abandoned, with possible future use as a salt water disposal well.

Sincerely,

TXO PRODUCTION CORP.

Leo A. Heath

Leo A. Heath
Project Engineer

LAH/blj

Lea - 46665-000

MAR02-0156

MAR-156

TEXAS OIL & GAS CORP.
2705 MONTANA AVENUE - SUITE 300
406 - 248 - 4330
BILLINGS, MONTANA 59101

December 8, 1981

Ms. Ethel Rogers
Oil & Gas Commission
Dept. of Natural Resources &
Conservation
2535 St. John's Avenue
Billings, MT 59102

Re: Buckles "B" #1
Sec. 22, T28N, R51E
Roosevelt County, Montana

Dear Ms. Rogers:

Attached is the Geologists Report for the subject well as you requested. There were no DST's run on this well.

Thank you.

Sincerely,

TXO PRODUCTION CORP.

Barbara L. Jacobsen

Barbara L. Jacobsen
Production Secretary

Enclosure

TEXAS OIL & GAS CORP.
2705 MONTANA AVENUE - SUITE 300
406 - 248 - 4330
BILLINGS, MONTANA 59101

January 14, 1982

Mr. Thomas P. Richmond
United States Department of Interior
Geological Survey
Conservation Division
P.O. Box 2550
Billings, MT 59103

Re: Buckles "B" #1
14-20-0256-5439

Dear Mr. Richmond:

Enclosed you will find two sets of logs and two copies of the geologists report for the above mentioned well as requested.

Thank you.

Sincerely,

TXO PRODUCTION CORP.

Barbara Jacobsen

Barbara L. Jacobsen
Production Secretary

Enclosures

MAR02-0158

MAR-158

TEXAS OIL & GAS CORP.

Inter-Office Memorandum

Date February 23, 1982

To: LeVerne Saint - Dallas

From: John P. Gilbert - Billings

Division Orders

Re: Buckles "B" #1
Roosevelt County, Montana
Property No. 92287

You have requested a Connect Notice regarding the referenced well.

Please note that the referenced well is pending plugging and abandonment and there never has been nor will there ever be any production sold from the property.

John P. Gilbert

jl

MAR02-0159

TXO-81

MAR-159

TXO

TXO PRODUCTION CORP.

DENVER DISTRICT
INTER-OFFICE MEMORANDUM

Date: August 5, 1982

To: Simianne Johnson
Lease & Contract Administration Dept.

From: Lori Zacher

Re: Receipt and Release
Buckles A #1
Buckles B #1

Please be advised to pay the draft for $1,000.00 payable to Robert H. Kirn for damages suffered by the drilling of the Buckles A #1 and Buckles B #1 wells in Roosevelt County, Montana.

WELL NAME:	Buckles A #1
LESSOR:	Robert H. Kirn
AFE:	810514
PROPERTY #:	46529
PROSPECT NAME:	East Poplar Prospect 82-0202 D-82
DESCRIPTION:	Township 28 North, Range 51 East Section 22: SE/4NW/4 Roosevelt County, Montana

WELL NAME:	Buckles B #1
LESSOR:	Robert H. Kirn
AFE:	811217
PROPERTY #:	92287
PROSPECT NAME:	East Poplar Prospect 82-0202 D-82
DESCRIPTION:	Township 28 North, Range 51 East Section 22: SW/4NE/4 Roosevelt County, Montana

The draft is due to be paid on 8/20. Please see that it is paid promptly. Thank you.

Lori
LZ

APPROVED BY:

T.G.W. AUG 5 1982

/lz
Attachments

MAR02-0160

MAR-160

RECEIPT AND RELEASE

Received from TXO Production Corp., the sum of _____ One thousand and 00/100 ($1000.00), being full settlement, satisfaction and discharge of any and all claims against it for any and all injury or damage suffered by the undersigned, occasioned by the drilling of the Buckles well (s) on the following described land in Roosevelt County, State of Montana, to-wit:

Section 22, Township 28 North, Range 51 East,
Roosevelt County, Montana.

especially including, but not limited to, injury or damage to growing crops as a result of said operations to TXO Production Corp., and in consideration of said sum paid to me, I hereby remise, release and forever discharge and give full acquittance to the said TXO Production Corp., its successors and assigns from all and every action, cause of action, claim and demand against it as aforesaid.

EXECUTED THIS 17th day of July, 1982

Robert H Kirn

WITNESS:

Thomas E. Craft

Jeanette E. Craft

MAR02-0161

Buckles A #1
AFE: 810514
Prop # 46529

Buckles B #1
AFE # 21-17
Prop. 92287

East Poplar 82-0202

MAR-161

days after sight, upon TXO of the attachments and the

THIS IS NOT A CASH ITEM

July 17, 1982

PAY TO THE ORDER OF Robert H Kirn

Box 884 Poplar MT 59255

$1000.00

Thousand and no/100 DOLLARS

Thornquist: Ask Croft who Kirn is ? Can't be surface owner

Thomas E. Croft

Not later than Production of title conveyed

Forward to:
FIRST NATIONAL
Collection Department
DALLAS, TEXAS

METROPOLITAN BUSINESS FORMS - 523-6690

NEGOTIABLE

Kirn is Mr Buckles Sur. IN - DAN

TXO-20 REV 6/81

FOLD HERE

STATE OF MONTANA
COUNTY OF ROOSEVELT

DO NOT DETACH

This draft is total consideration for damages incurred to the surface by the 19__ from the payees to TXO Production Corp. preparation of location and drilling of the Buckles well, County, State of the payees hereby appoint the collecting bank their escrow agent to hold this draft and any attachments for the time herein specified and no party hereto shall have the right to demand return of this draft prior to the expiration of such period. All parties hereto agree that the collecting bank shall not incur any liability whatsoever to any party by its refusal to return this draft and any attachments during said period of time. Upon timely acceptance and payment hereof, the collecting bank shall deliver this draft and any attachments to TXO Production Corp., but if this draft is not paid within said time the collecting bank shall return this draft and any attachments to the payee or forwarding bank and all further obligations of the parties hereto shall terminate.

ATTACHMENTS

NONE THE LEASE OTHER

Robert H Kirn

MAR02-0162

MAR-162

Mont

THIS IS NOT A CASH ITEM 2710

July 17 1982

PAY TO THE ORDER OF Robert H Kirn

Box 884 Poplar MT 59255 33298

$1000.00

One Thousand and 00/100 8-20 DOLLARS

City Collection Dept.
JUL 23 1982
InterFirst Bank Dallas, N.A.

To: TXO PRODUCTION CORP.
Forward to: FIRST NATIONAL BANK
Collection Department
DALLAS, TEXAS

Thomas E. Croft

Thomas E. Croft

Not later than 20 banking days after sight, upon TXO Production Corp.'s approval of the attachments and the title conveyed thereby →

LAS

TXO-20 REV 6/81

FOLD HERE

STATE OF MONTANA
COUNTY OF ROOSEVELT

DO NOT DETACH

ENDORSEMENTS

This draft is total consideration for damages incurred to the surface by the preparation of location and drilling of the Buckles well, the payees hereby appoint the collecting bank their escrow agent to hold this draft and any attachments for the time herein specified and no party hereto shall have the right to demand return of this draft prior to the expiration of such period. All parties hereto agree that the collecting bank shall not incur any liability whatsoever to any party by its refusal to return this draft and any attachments during said period of time. Upon timely acceptance and payment hereof, the collecting bank shall deliver this draft and any attachments to TXO Production Corp., but if this draft is not paid within said time the collecting bank shall return this draft and any attachments to the payee or forwarding bank and all further obligations of the parties hereto shall terminate.

x Robert H Kirn

AFE 810514
46529
Buckles A #1
EF 81217
092287
Buckles A #2
East Poplar
82-2202

ATTACHMENTS
THE LEASE
OTHER
NONE

MAR02-0163

MAR-163

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
MILES CITY DISTRICT OFFICE
P.O. BOX 940
MILES CITY, MONTANA 59301-0940

WF

IN REPLY TO:
3160
14-20-0256-5439

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

RECEIVED
APR 18 89
DENVER, ENV DEPT.

TXO Production Corp.
1660 Lincoln, Ste. 1800
Denver, Colorado 80264

RE: Indian Lease No. 14-20-0256-5439
Buckles Well Name and No. "B" 1
NW¼NE¼, Section 22, T. 28 N, R. 51 E.
Roosevelt County, Montana

Gentlemen:

We have not received certain required reports for the above referenced location. Please submit the reports which are indicated below:

_____ Monthly Report of Operations. (Form 3160-6, 2 copies) Required by 43 CFR 3162.4-3

_____ Well Completion or Recompletion Report covering drilling operations, and well status. (Form 3160-4, 2 copies) Required by 43 CFR 3160

_____ E-logs, wire line logs, sample logs, mud logs, drill time logs, and well surveys. (2 copies) Required by 43 CFR 3162.4-2

_____ Geologists Report. (Geological and engineering summaries) Required by 43 CFR 3162.4-2

_____ Notice of Intention to Abandon. (Form 3160-5, Sundry Notices and Reports on Wells, 4 copies) Required by 43 CFR 3162.3-2

_____ Subsequent Report of Abandonment. (Form 3160-5, Sundry Notices and Reports on Wells, 4 copies) Required by 43 CFR 3162.3-2

__XX__ Final Abandonment Notice. (Form 3160-5, Sundry Notices and Reports on Wells, 4 copies) Required by 43 CFR 3162.3-2

_____ Present Status and Plans

MAR02-0164

MAR-164

Please submit these reports to this office within 20 days upon receipt of this letter. Failure to submit these reports within the specified timeframe will incur an assessment of $250.00 in accordance with 43 CFR 3163.1(a).

If you have any questions, contact Bernice Knopp at 406-232-4331.

Sincerely yours,

Assistant District Manager
Division of Mineral Resources

MAR02-0165

MAR-165

FORM C2
1979, Second (SI) Edition (Revised)

CONTRACT NUMBER

OPERATOR	CONTRACTOR

EXHIBIT A
BID SHEET AND WELL SPECIFICATIONS
FOR
STANDARD DRILLING CONTRACT

TO: (Contractor)
Bird Drilling Inc.
800 - 304 - 8th Ave. S.W.
Calgary, Alberta T2P 1C2

FROM: (Operator)
Texas Oil & Gas Corporation
300 - 2705 Montana Ave.
Billings, Montana 59101

Gentlemen:

We solicit your bid to drill and complete the hereinafter designated well. This bid form has been filled in by us to the extent necessary to disclose the manner in which we desire the well to be drilled. If you desire to submit a bid, please complete this instrument in every respect, execute the original and two copies, and return to our office at _____ not later than _____ hours, _____, 19____.

Very truly yours,
Texas Oil & Gas Corporation
Operator
By: _____

1. NAME AND LOCATION OF WELL:

Well Name Buckles B #1 Province State of Montana -Roosevelt Cty.

Well Location and Land Description NW/NE Sec. 22, 28N, 51E

2. COMMENCEMENT DATE:

Contractor agrees to commence actual drilling operations at the above location on or before to be determined 19____, or, in the event Operator is to clear and grade and furnish roadway or other ingress or egress facilities within _____ days from the date of completion of the clearing and grading and construction of roadway, or such other ingress or egress facilities, whichever is the later.

3. DEPTH:

Subject to right of Operator to abandon the well or to have the well completed at a lesser depth, Contractor agrees to drill the well to a total contract depth of 6,000 feet ~~metres~~. Contractor will drill the well on a drilling basis (see Section 13 hereof) to _____ metres or the top of the _____ formation, or _____ metres into _____ formation, whichever is first reached. Drilling between the drilling contract depth and final contract depth, if any, shall be at daywork rates as specified in Section 13 hereof.

4. RIG AND EQUIPMENT TO BE FURNISHED BY CONTRACTOR:

4.1 Contractor's rig # 5 or 7 and inventory attached or see Item 4.2.

4.2 Contractor's rig # _____

Drawworks _____
Engines — number, make and models _____
Slush pumps — make, model and size _____
Auxiliary pump and power _____
Derrick or mast — make, size and capacity _____
Substructure — height and capacity _____
Drill pipe — sizes and amounts _____
Drill collars — sizes and numbers _____
Present location of rig _____
Estimated availability of rig _____

4.3 Blowout preventers — power actuated.

Casing String	BOP Size	Pressure Rating	No. & Style	BOP Pressure Tests Frequency	kPa
Surface:	10"	900	Shaffer	24 hours	1,000 psi
Intermediate:					
Production:	10"	900	Hydril	24 hours	1,000 psi

5. EQUIPMENT, MATERIALS AND SERVICES TO BE FURNISHED BY DESIGNATED PARTY:

The machinery, equipment, tools, materials, supplies, instruments, servicing and labour listed as the following numbered items include any transportation required for such items unless otherwise specified and shall be provided at the location and at the expense of the party hereto as designated by an "X" in the appropriate column. (Also see Section 2.4 of the Drilling Contract).

Item	To Be Provided By: Contractor	To Be Provided By: Operator	At the Expense of: Contractor	At the Expense of: Operator
5.1 Provision for and maintenance of adequate roadway to location, rights of way including road tolls, highway crossings, cattleguards and gates.		O		O
5.2 Clearing and grading of location.		O		O

C2-79-01

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MAR-166

MAR02-0166

Item	To Be Provided By: Contractor	To Be Provided By: Operator	At the Expense of: Contractor	At the Expense of: Operator
5.3 (a) Cellar and matting	C		C	
(b) Rathole, conductor, mousehole expense to $ ____ (1)		O		O
(c) Rathole, conductor, mousehole expense in excess of $ ____ (1)		O		O
(1) Includes expenses of materials, drilling, setting and cementing same.				
5.4 Slush pits or special steel pits.		O		O
5.5 Transportation of Contractor's rig: Operator will be responsible to move Contractors rig to the above location including trucking and rig up labour. Extra labour or trucking costs to move in or off location resulting from adverse lease or weather conditions will be charged to the Operator.				
(a) Move in and rig up costs of $				
(b) Move out costs of $				
(c) Stack out costs of $ cased well.				
(d) Labour costs of $				
(e) Labour costs of $				
(f) Leveling of rig				
(g)				
5.6 Towing services to include truck charges for rig or additional equipment.		O		O
5.7 Special moving equipment for rig supplies or personnel if road becomes impassable by normal transportation means or vehicles.		O		O
5.8 Steel mud & circulating tanks of ____ m³ volume.	C		C	
5.9 Fuel: Rig and camp		O		O
Boiler				
Other				
Normal fuel storage of 1,500 gals. litres	C		C	
Additional fuel storage of ____ litres				
The cost of fuel is included in the quoted drilling and/or daywork rates based on $ .45c per gal. litre of diesel fuel, F.O.B. location. Operator will reimburse Contractor for any additional fuel costs above $ .45c per gal. litre, F.O.B. location.				
5.10 Total water costs (1) for rig and camp to $ ____ per day.		O		O
Total water costs (1) for rig and camp in excess of $ ____ per day.				
(1) Calculated from spud to release of rig and total water costs include hauling costs prior to spud.				
5.11 Water storage at location 250 bbls. m³	C		C	
5.12 Bits — drilling	C		C	
— daywork		O		O
5.13 Reamers, stabilizers, special drilling tools:				
— drilling	C		C	
— daywork		O		O
5.14 Diamond core barrel, handling tools and accessories		O		O
5.15 Casing, essentially as specified herein		O		O
5.16 Casing shoes, floats, centralizers, scratchers		O		O
5.17 Casing tools (as per casing program)		O		O
5.18 Power casing tongs for — surface casing		O		O
— intermediate casing		O		O
— long string		O		O
5.19 Tubing		O		O
5.20 Tubing tools		O		O
5.21 Tubing power tongs		O		O
5.22 Cement and cementing services for — surface casing		O		O
— intermediate casing		O		O
— long string		O		O
5.23 Extra labour for casing jobs		O		O
5.24 Swabbing unit with swab line		O		O
5.25 Swabbing accessories to include cups, lubricators, sinker bar, etc.		O		O
5.26 Electrical logging and other wire line formation survey services		O		O
5.27 Drill stem formation testing services		O		O
5.28 Gun or jet perforating services		O		O
5.29 Inspection services for Contractor's drill string	C		C	
5.30 Special strings of drill pipe and drill collars as follows:		O		O
5.31 Kelly joints, subs, elevators, slips and handling tools for use with special strings of drill pipe and drill collars		O		O
5.32 Drill pipe protectors for kelly joints and each joint of drill pipe running inside of casing for use with normal strings of drill pipe		O		O
5.33 Drill pipe protectors for kelly joints and each joint of drill pipe running inside of casing for use with above noted special strings of drill pipe		O		O
5.34 Fishing tools and services—drilling	C		C	
—daywork		O		O
5.35 One pen penetration and recording device		O		O
5.36 Conventional drift indicator	C		C	

MAR02-0167

C2-79-01

MAR-167

8. STRAIGHT HOLE SPECIFICATIONS:

Well Depth From	Well Depth To	Maximum Distance Between Surveys, metres	Maximum Deviation from Vertical, Degrees	Maximum Change of Angle (or Over-All Angle) Between Any Two Surveys, Degrees*
			2°	½°
As determined by Operator.			5°	1°

Contractor will make every effort to insure that the hole remains within Operators deviation limits, however should deviation occur greater than specified above, the rig will immediately go on Daywork. metres shall be

*Reduce proportionately for survey intervals less than 30 metres, but do not use intervals less than 10 metres. The foregoing rate of change shall not be limiting in case of whipstocking approved by Operator.

9. PROPOSED CORING PROGRAM:

Approx. Depth	Formation	Type Core	Size	metres
To be determined by	the Operator			

10. PROPOSED WIRE LINE SURVEYS:

Type or Kind	From	To	Remarks
To be determined by the	Operator		

11. PROPOSED FLUID PRODUCTION TESTS:

Type or Kind	From	To	Zone to be tested
To be determined by the	Operator		

12. DESIGNATED REPRESENTATIVES:

Operator	Contractor
Leo Heath (name)	T. Ulrichsen or R. Currie (name)
300 - 2705 Montana Ave., Billings, Montana (address)	800 - 304 - 8th Ave. S.W., Calgary, Alberta (address)
(406) 248-4330 (day telephone number)	(403) 269-1411 or (403) 271-6897 (day telephone number)
(night telephone number)	(night telephone number)

13. COMPENSATION TO BE PAID CONTRACTOR:

(a) For work performed on a drilling basis, the sum of $ 20.00 per ~~metre~~ foot for each linear ~~metre~~ foot of hole drilled. Such linear measure shall be determined by steel line measurement and such measurement shall be from top of rotary drive bushing to the total depth drilled less distance from ground level or water bottom to the top of the rotary drive bushing and less metres drilled while work is performed on a daywork basis. If a cellar is furnished by Operator, ground level shall be construed to mean the bottom of such cellar.

(b) For all work performed with a full crew on a daywork basis, as defined in the contract, Contractor shall be paid a rate for each twenty-four (24) hour day as follows:

Depth Intervals From	Depth Intervals To	With Drill Pipe	Without Drill Pipe	Using Operator's Pipe
0	T.D.	$6,600.00	$6,600.00	$6,600.00

(c) A full crew shall consist of 5 men. Each shift shall consist of 8 hours. For each man the crew is short, Contractor's day rate shall be reduced by the daily rate of pay for such man.

(d) If it becomes necessary to shut down Contractor's rig for repairs while Contractor is performing work on a daywork basis, Contractor shall be allowed compensation during such repairs at the applicable daywork rate commensurate with the stage of operations then in effect.
The number of hours for which Contractor is to be compensated shall be limited as follows:
For any one repair job: - hours
Total hours per month: -
Total hours in the aggregate for the well: 18

(e) For standby time while waiting on orders or materials, services or other items to be furnished by Operator, a standby rate of $ 6,600.00 per twenty-four (24) hour day with full crew or $ 4,080.00 per twenty-four (24) hour day with no crew. Watchmen shall be charged at $ /man/twenty-four (24) hour day. Other standby:

(f) If the formation drilled to on a drilling basis is unproductive and Operator elects to plug and abandon the hole, Contractor agrees to furnish up to 12 hours of rig time without charge for such abandonment. This period begins as soon as orders are received to either run casing or abandon & continues until 5 hours after the casing is satisfactorily cemented or the last plug is run on abandonment - any additional time required to set casing or abandon will be on a Daywork basis.

C2-79-01

MAR-168

MAR02-0168

Item	To be Provided By: Contractor	To be Provided By: Operator	At the Expense of: Contractor	At the Expense of: Operator
5.37 Normal storage for mud and chemicals				
5.38 Well head connections and all equipment to be installed in or on well head or on the premises for use in completion of the well				
5.39 Well site restoration to include pits				
5.40 Welding services for casing jobs and/or well head connection				
5.41 Casing bowl: size _____ type _____				
5.42 Crew transportation and subsistence expense $ 50.00 per manday or $ including toolpush per day.	C			O
5.43 Camp: 4 unit camp (20 men) while in use, chargeable at $ _____ per day.				
____ unit camp (____ men) while in use, chargeable at $ _____ per day.				
Camp standby at $ _____ per day				
Camp transportation				
Camp personnel transportation				
Transportation of groceries				
Separate light plant (if required) at $ _____ per day				
Other				
5.44 Boiler and normal winterization:				
____ boilers while in use, chargeable at $ _____ per day.				
Special winterization of				
5.45 Desander: _____ type at $ _____ per day.		O		O
5.46 Desilter: _____ type at $ 175.00 per day.	C			O
5.47 Degasser: _____ type at $ _____ per day.		O		O
5.48 High Speed Shale Shaker _____ type at $ _____ per day.				
5.49 Shock Sub: _____ type at $ _____ per day.				
5.50 Special mud-treating equipment of		O		O
5.51 BOP bleed-off manifold: size 2"	C		C	
5.52 Special manifold equipment as follows:				
at $ _____ per day.		O		O
5.53 Overtime crew labor charge for Statutory Holidays or at Operator's request		O		O
5.54 Breathing and safety apparatus:				
(a) Normal required by Worker's Compensation Board.		O		O
(b) Special breathing or safety equipment apparatus and supervision required because of hydrogen sulphide testing, hole conditions, well site remoteness, etc.		O		O
5.55 Special allowance for oil-based or invert mud:				
(a) $ _____ per man per day clothing allowance based on _____ men.				
(b) $ _____ per day for additional rig expense.				
5.56 Municipal well tax & inhibitors or chemicals for drilling string.				
5.57 Protection-oxygen scavenger plus H2S protection. Any				
5.58 damage to drill string due to H2S gas or corrosive drilling				
5.59 fluids will be charged to the Operator.				
5.60 Additional equipment and services:				

6. CASING AND CEMENTING PROGRAM:

Minimum Hole Diameter mm	Casing OD mm	kg/m	Approx. Setting Depth mm	Running of Casing: Drilling or Daywork	WOC Hrs. Cut Off	Drill Out	WOC Time on Contractor or Operator
12-1/4"	8-5/8"	24 lb.	As determined		8	12	C
7-7/8"	5-1/2"	20 lb.	by Operator				

It is understood should the picking up and running of tubing be performed after the plug is down on the long string, Contractor shall be deemed to be on daywork and shall be allowed compensation as set forth under the applicable daywork rates.

7. MUD CONTROL PROGRAM (see Section 8.3 of the Drilling Contract)

Operator agrees to furnish all mud conditioners/additives and chemicals necessary for drilling the well and will arrange to purchase all necessary mud conditioning materials.

Depth Interval (metres) From	To	Type Mud	Density kg/m³	Viscosity s/L	Water Loss cm³
0	Dakota	Salt Water			Water loss
Dakota	T.D.	Gel-Starch			control over the
					bottom 300' only

It is understood, in the event it becomes necessary to discontinue drilling operations and to suddenly raise the mud density _____ above the density currently being used or to raise the mud density at any time to 11.0 lb./gal. kg/m³, it will conclusively constitute "abnormal pressure" as that term is employed in Section 9.2 of the Drilling Contract. Operations will thereafter go forward under the terms of such provision (Section 9.2 of the Drilling Contract) until such condition has been overcome, the well is under control and the mud system stable. Should the new stabilized density be in excess of 11.0 lb./gal. kg/m³, all subsequent operations shall be conducted on a daywork basis.

Other Mud Specifications: _____

C2-79-01

MAR-169

MAR02-0169

(g) During the term of the Drilling Contract, the rates set forth herein shall be revised to compensate Contractor for any escalation in its cost of labour, catering, fuel, motor oil, insurance, and transportation should such escalation be general throughout the drilling industry. The date of revision is to be the date of escalation.

(h) The basis for payment to Contractor for equipment lost or damaged in the hole while on daywork or for equipment lost or damaged in any other circumstances where Operator is liable or responsible for Contractor's equipment under or by reason of any provision of the Drilling Contract shall be 90 percent of new replacement costs at the time of delivery, F.O.B. wellsite.

(i) Surface Hole Clause 9.2:
All time spent in excess of 12 hours calculated from spud to plug down after the setting and cementing of the surface casing will be charged to Operator at the applicable daywork rate.
Operator will be charged for all bits in excess of One *bits to drill the surface hole.*

(j) Loss of circulation time (See Section 9.4 of the Drilling Contract) shall be NIL hours.

(k) Should Contractor purchase for Operator at Operator's request any materials, supplies, services or equipment, including tubular goods, which Operator is obligated to furnish under the terms of this Agreement, Operator agrees to pay Contractor within thirty (30) days after date of receipt of Contractor's invoice the actual cost of such materials, supplies, services, or equipment, plus NIL % handling charge, and NIL % handling charge for tubular goods.

(l) Any sum or sums not paid within Sec. 4.2 & 4.3 of contract days after the due date herein specified shall bear interest at the rate of 1-1/2 percent per month from such due date until paid.

14. SPECIAL PROVISIONS:

1. All rig time lost through delays caused by adverse weather conditions will be charged to the Operator on a Daywork basis.
2. Extra labour costs resulting from overtime to run casing, move and rig up or out will be charged to the Operator at cost plus 20% Payroll Burden.
3. All rig time that is employed in waiting on services or supplies, including fuel and water, for reasons beyond the control of Contractor (such as conditions resulting from weather, breakdown of service company equipment, failure of service equipment to arrive on schedule, etc.) shall be charged to the Operator, in addition to the footage price on a daywork basis.
4. In the case of any lost circulation or water flows from any formation, the rig will immediately go on a daywork basis and footage drilled during this period will be deducted from the footage invoice.
5. Any extra costs incurred as a result of any casing failures will be the responsibility of the Operator.
6. Schock-Sub rental will be charged to the Operator.
7. In the event of any casing failure, the rig will immediately go on Daywork.

In response to the above request, our bid for the drilling of the well hereinabove described is submitted as set forth above.

Bird Drilling Inc.

Contractor

By: [signature]

Date: July 2, 1981

ACCEPTED this 23rd day of July

A.D. 19 81

Texas Oil & Gas Corporation

Operator

By: [signature]

MAR02-0170

C2-79-01

MAR-170

FORM C1
1979, Second (SI) Edition (Revised)

CONTRACT NUMBER	
OPERATOR	CONTRACTOR

STANDARD DRILLING CONTRACT

THIS AGREEMENT made and entered into by and between Texas Oil & Gas Corp~~oration~~
2705 Montana Avenue
Suite 300
Billings, Montana 59101 USA

hereinafter called Operator, and Bird Drilling Inc.
800 - 304 - 8th Ave. S.W.
Calgary, Alberta
T2P 1C2

hereinafter called Contractor

WITNESSETH THAT:

WHEREAS Operator is the owner, and/or Operator, of certain property or properties on which it desires to have a well drilled and completed in search of oil or gas; and

WHEREAS Contractor represents that it has adequate equipment in good working order and personnel capable of efficiently operating such equipment with which it desires to drill and complete such well for Operator;

NOW THEREFORE the parties hereto, each in consideration of the covenants and agreements of the other, mutually agree as follows:-

1. WORK TO BE DONE, LOCATION, COMMENCEMENT DATE AND DEPTH:

1.1 Contractor agrees to drill and complete the hereinafter designated well in accordance with all the provisions hereof and other conditions and specifications set forth in the Bid Sheet and Well Specifications, identified as Exhibit A attached to and made part of this Agreement.

1.2 Contractor further agrees to commence operations for the drilling of the well at the location, on the date and to the depth agreed upon in Sections 1, 2 and 3 of Exhibit A hereof.

2. LABOUR, EQUIPMENT, MATERIALS, SUPPLIES AND SERVICES:

2.1 Contractor shall furnish the labour, equipment, materials, supplies and services described in Exhibit A.

2.2 Additional material, equipment, special tools, supplies and services necessary or proper to the drilling and completion of the well shall be furnished at the drill site by the party designated in Section 5 of Exhibit A. Should other tools, materials, equipment, supplies, apparatus or services be necessary to the drilling or completion of the well, the cost of such tools, materials, equipment, supplies, apparatus or services and the manner in which they are to be furnished are to be agreed upon by the parties hereto.

2.3 Operator shall stake the location of the well and shall furnish such labour, materials, supplies and services as are specifically set out in Section 5 of Exhibit A.

2.4 Should Contractor purchase for Operator at Operator's request any materials, supplies, services or equipment, including tubular goods, which Operator is obligated to furnish under the terms of this Agreement, Operator agrees to pay Contractor within thirty (30) days after date of receipt of Contractor's invoice the actual cost of such materials, supplies, services, equipment, or tubular goods, plus handling charge specified in Exhibit A. Contractor agrees to furnish Operator copies of suppliers', vendors' or third party invoices covering such materials, supplies, services or equipment.

3. DRILLING RATE, DAYWORK RATE, STANDBY RATE, BASIS OF DETERMINING AMOUNTS PAYABLE TO CONTRACTOR:

3.1 Subject to all of the other provisions hereof, Operator agrees to pay Contractor for the work performed, services rendered, and the materials, equipment and supplies furnished by Contractor, a sum computed as hereafter prescribed.

3.2 For work performed on a drilling basis, Contractor shall be paid the rate agreed upon and specified in Section 13(a) of Exhibit A, multiplied by the linear measure of the hole drilled. Such linear measure of hole drilled shall be determined in the manner specified in Exhibit A.

3.3 For work performed on a daywork basis, Contractor shall be paid the daywork rate per twenty-four (24) hour day agreed upon and specified in Section 13(b) of Exhibit A.

3.4 If it is necessary to shut down Contractor's rig for repairs while Contractor is performing work on a daywork basis, Contractor shall be allowed compensation in the manner set out in Section 13(d) of Exhibit A.

3.5 When Contractor's rig is shut down, although in readiness to resume operations, but Contractor is awaiting orders of Operator, or materials, services or other items which Operator is obligated to furnish, Operator agrees to pay Contractor the standby rate specified in Section 13(e) of Exhibit A.

3.6 If loss of circulation occurs while operations are being conducted on a drilling basis, all operations until circulation is restored are to be conducted in accordance with the provisions set forth in Section 9 hereof.

3.7 The term "daywork" shall mean the work performed by Contractor at a stipulated sum per day as distinguished from work for which Contractor is compensated at a stipulated price per metre of hole drilled. Unless otherwise provided herein, the term "daywork" shall include, but not be limited to, the following work performed by Contractor:

(a) All drilling below the contract drilling depth as provided in Exhibit A, including the setting of any string of casing below such depth.

(b) All work performed by Contractor, whether or not prior to reaching the contract drilling depth, in an effort to restore the hole to such condition that further drilling or other operations may be conducted, in the event of loss or damage to the hole as a result of the failure of Operator's casing or equipment either during or after the running and setting of such casing, or as a result of the subsequent failure of the cementing job resulting in parted casing.

(c) All other work performed by Contractor at the request of Operator, regardless of depth, which is not within the scope of the work to be performed on a drilling basis including, but not limited to, all coring, drill stem testing, bailing, gun or jet perforating, electric logging, acid treatment, cleaning out, hydraulic fracturing, plugging, running tubing, setting liners, squeeze cementing, abandoning well and installation of well head equipment.

3.8 In determining the amount of daywork time for which Contractor is to be compensated, it is agreed, except as provided in Section 9 hereof, that such daywork time shall begin when Contractor, at the request of Operator, suspends normal drilling operations being conducted on a drilling basis, and shall include the time required to restore the hole to the same drilling conditions which existed when operations on a drilling basis were suspended. For daywork comprising less than a twenty-four (24) hour day, Contractor shall be paid the proper fractional part of the amount specified for a twenty-four (24) hour day. The proper fractional part of the time shall be computed to the nearest one-quarter (¼) hour.

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MAR-171

MAR02-0171

4. TIME OF PAYMENT:

4.1 Conditional upon Contractor's compliance with the terms and conditions of this Agreement, Operator agrees to make payments to Contractor, as herein set out, until such time as the designated well is completed or abandoned.

4.2 Payment for work performed on a drilling basis shall be due and payable when Contractor completes performance of drilling work provided for by this contract. If Contractor performs any daywork prior to reaching the drilling contract depth, payment for such daywork shall be due and payable at the close of each calendar month.

4.3 If the duration of the hole is more than one month, payment shall be due and payable at the close of each calendar month for the metres drilled in such month.

4.4 Any sum or sums not paid after the due date herein specified shall bear interest at the rate specified in Exhibit A.

5. STOPPAGE OF WORK BY OPERATOR:

5.1 Notwithstanding the provisions of Section 3 of Exhibit A, Operator shall have the right to direct the stoppage of the work to be performed by Contractor hereunder at any time prior to reaching the specified depth, and even though Contractor has made no default hereunder. In such event Operator shall be under no obligation to Contractor except as follows:-

5.2 If such work stoppage occurs prior to spudding of the well, Operator shall pay to Contractor the sum of the following:- (a) all expenses reasonably and necessarily incurred by Contractor by reason of the contract and by reason of the premature stoppage of the work excluding, however, expenses of normal drilling crew and supervision; (b) fifteen percent (15%) of the amount of the expenses of item 5.2(a); and (c) a sum calculated at the standby rate with crews for all time from the date upon which Contractor commences any work hereunder down to such date subsequent to the date of work stoppage as will afford Contractor reasonable time to dismantle his rig and equipment.

5.3 If such work stoppage occurs after the spudding of the well, Operator shall pay to Contractor the sum of the following:- (a) all expenses reasonably and necessarily incurred by Contractor by reason of the contract and by reason of the premature stoppage of the work excluding, however, expenses of normal drilling crew and supervision; (b) fifteen percent (15%) of the amount of the expenses in item 5.3 (a); and (c) a sum calculated at the daywork rate or standby rate with crews, whichever is applicable at the time, for all time from the date upon which Contractor commences any work hereunder down to such date subsequent to the date of work stoppage as will afford Contractor reasonable time to dismantle his rig and equipment.

6. TAKE-OVER BY OPERATOR:

6.1 In the event of default on the part of Contractor in the performance of the work Operator shall give Contractor written notice thereof which shall specify in detail the nature of the default. Contractor shall have seven (7) days after receipt of such notice in which to correct or remedy the matter specified in such notice. If contractor within the said seven (7) days period fails to correct or remedy the matter specified in such notice to Operator's satisfaction, Operator may take possession of any or all of Contractor's tools, rig, machinery and equipment at the well site and, with Operator's own employees or the employees of some other contractor, complete all or any portion of the work contemplated by this Agreement. If Operator takes over Contractor's tools, rig, machinery and equipment as herein provided, Operator shall pay Contractor during such take-over the standby with crew rate as provided in Section 13(d) of Exhibit A, less Operator's direct labour charges.

6.2 Operator shall, either at the completion or abandonment of the hole or in accordance with item 6.5 hereof, whichever is the sooner, return to Contractor all tools, rig, machinery and equipment so taken over in as good condition as when taken over, normal wear and tear excepted.

6.3 If Contractor carries insurance on Contractor's tools, rig, machinery and equipment such insurance shall be continued in effect during such take-over and Operator shall reimburse Contractor for the cost of such insurance during such take-over.

6.4 If Contractor's tools, rig, machinery and equipment are taken over by Operator as herein provided, all operations performed therewith during such take-over period shall be wholly at Operator's risk. Contractor's covenants of indemnity contained in this Agreement shall not apply during such take-over period.

6.5 If, after Operator has taken over possession of any or all of Contractor's tools, rig, machinery and equipment as herein provided, Contractor demonstrates to the satisfaction of Operator that Contractor can correct or remedy the matter specified on Operator's notice pursuant to item 6.1 above, Operator shall return to Contractor all tools, rig, machinery and equipment so taken over and thereafter the provisions of this Agreement shall again apply.

7. CASING PROGRAM:

7.1 The casing program shall be as provided in Section 6 of Exhibit A. The exact setting depth of each string of casing, the amount of cement, and the process to be used in cementing shall be specified by Operator at the time of each casing setting. Operator may modify said casing program but any modification thereof which materially increases Contractor's hazard or costs of performing its obligations hereunder can only be made by mutual agreement of Contractor and Operator.

7.2 Contractor shall run and cement all strings of casing and shall be compensated therefor either at drilling rates or at daywork rates as set out in Section 6 of Exhibit A. If casing is run and cemented at drilling rates, Contractor shall at its expense condition the hole (except following daywork operations), run and cement the casing and wait on cement to harden, with prescribed waiting time to commence when plug hits bottom. If casing is run and cemented at daywork rates, Contractor shall be paid for all time consumed in the process at applicable daywork rates. Recementing or time requested by Operator in excess of allowed cement hardening time shall be paid at applicable daywork rates. The setting of any string of casing below the contract depth shall be performed by Contractor under the direction of Operator and Operator shall pay for all time so consumed at the applicable daywork rate.

7.3 Contractor agrees to keep thread protectors on the casing until the casing is taken from the racks to be run into the hole, and to grease the thread with a suitable pipe lubricant as it is made up. Contractor further agrees to preserve all protectors and, after well is completed, to break down all surplus casing, put protectors on same as it is broken down and return such casing to the pipe racks at the rig.

7.4 If the hole is lost or damaged as a result of the failure of Operator's casing or equipment either during the running and setting of such casing or as a result of subsequent failure of the cement job or as a result of casing wear, such loss shall be borne by Operator.

8. DRILLING METHODS AND PRACTICES:

8.1 Contractor agrees to perform all work to be conducted by it under the terms of this Agreement with due diligence and care in a good and workmanlike manner and in accordance with good drilling practices.

8.2 Contractor agrees to maintain its well control equipment in good operating condition at all times, testing it as prescribed in Section 4 of Exhibit A, and shall use all reasonable means to control and prevent fire and blowouts.

8.3 Subject to the terms hereof, Contractor agrees that at all times during the drilling of the well the Operator shall have the right to control the mud program. The drilling fluid must be of a type and have characteristics acceptable to Operator and be maintained by Contractor in accordance with the specifications shown in Section 7 of Exhibit A. No change or modification of said specifications which would materially increase Contractor's hazards or Contractor's costs of performing its obligations hereunder shall be made by Operator without consent of Contractor. Both Contractor and Operator shall have the right to make any tests of the drilling fluid which may be necessary. Should no mud control program be specified by Operator in Exhibit A, Contractor shall have the right to determine the mud program and the type and character of the drilling fluid during the time that Contractor is performing work upon a drilling basis under the terms of this Agreement.

8.4 Contractor agrees to keep a drilling time log of the well noting the depth and to save and label samples of formations as Operator may request. Such log shall at all times be subject to inspection of Operator or its representative; and, upon completion or abandonment of the well to which it pertains, shall become the exclusive property of Operator.

8.5 Contractor agrees that every effort will be made to drill a straight hole and to make diligent effort to maintain its slope within the allowable limits specified in Exhibit A. Contractor agrees to make slope tests as specified in Section 8 of Exhibit A, with the cost of making such slope tests to be included in the drilling rate if the well is being drilled on a drilling basis. If the slope of the hole is found to be beyond the limits specified in Exhibit A while work is being conducted on a drilling basis and if requested by Operator prior to running casing, Contractor agrees at its cost to cement off, redrill, or correct the slope of the hole to the satisfaction of Operator. Operator reserves the right to require slope tests additional to those specified in Exhibit A. In making such additional slope tests, if it is found that the slope of the hole is beyond the prescribed limits set forth in Exhibit A, the cost of such tests is to be borne by Contractor, and, if requested by Operator, prior to running casing, Contractor agrees at its own cost to cement off, redrill or correct the slope of the hole to Operator's satisfaction. If the slope of the hole is found to be within the prescribed limits of Exhibit A, rig time used to make the test shall be paid for at the applicable daywork rate.

9. FORMATIONS DIFFICULT OR HAZARDOUS TO DRILL:

9.1 If chert, pyrite, quartzite, igneous rock or other impenetrable substances are encountered while drilling on a drilling basis and the metres drilled during each twenty-four (24) hour period multiplied by the drilling rate does not equal the applicable daywork rates plus the costs of bits, all drilling operations shall be conducted on a daywork basis at the applicable daywork rate with the Operator furnishing the bits until normal drilling operations and procedures can be resumed. The metres so drilled on daywork shall be deducted from the drilling charge.

9.2 If gravel, boulders, loss of circulation or deviation difficulties due to gravel or flowing water is encountered during the drilling of the surface hole, all time spent in excess of hours as set forth in Exhibit A, calculated from spud to plug down after the setting and cementing of surface casing will be charged to Operator at the applicable daywork rate. Operator will be charged for all bits in excess of number of bits as set forth in Exhibit A to drill the surface hole. In addition, the applicable drilling rate will apply to the total depth of the surface hole should such conditions prevail during the drilling of the surface hole.

9.3 If water flow, domal formation, abnormal pressure, underground mine or cavern, heaving shale, coal, or other similar condition is encountered under the surface casing shoe which makes drilling abnormally difficult or hazardous, causes sticking of drill pipe or casing, or other similar difficulty which precludes drilling ahead under reasonably normal procedures, Contractor shall, in all cases, without delay, exert every reasonable effort to overcome such difficulty and so notify Operator. When such condition or conditions are encountered, further operations shall be conducted on a daywork basis at the applicable daywork rate until such conditions have been overcome and normal drilling operations can be resumed. Operator shall assume the risks of loss of or damage to the hole and to Contractor's equipment in the hole from the time such condition is encountered. The metres drilled while on such daywork operations shall be deducted from the drilling charge.

9.4 If loss of circulation or partial loss of circulation is encountered under the surface casing shoe, Contractor shall, without undue delay, exert every reasonable effort to overcome such difficulty. Immediately when such condition is encountered, Operator shall assume the risks of loss of or damage to the hole and to Contractor's equipment in the hole. Should such condition persist in spite of Contractor's efforts to overcome it, then after a cumulative period of time has been consumed in such efforts, further operations shall be conducted on a daywork basis at the applicable daywork rate until such condition has been overcome and normal drilling operations can be resumed.

10. CORINGS AND CUTTINGS:

10.1 Contractor agrees to take cores as set out in Section 9 of Exhibit A and, in so doing, to utilize a type of equipment specified therein. All coring shall be paid for at the applicable daywork rate unless otherwise specified in Exhibit A.

11. REPORTS TO BE FURNISHED BY CONTRACTOR:

11.1 Contractor shall keep and furnish to Operator a daily drilling report showing depth of the hole and such other data as required by Operator. Drilling report forms shall be furnished or specified by Operator. In the absence of specifications by Operator, the C.A.O.D.C. Daily Drilling Report Form shall be used.

11.2 Delivery tickets covering any materials or supplies furnished by Operator or furnished by vendors for which Operator is obligated to reimburse Contractor and showing the quantity, description and condition of materials and supplies so furnished shall be verified and visually checked as to receipt by Contractor's representative.

12. INSURANCE AND INDEMNITY:

12.1 At all times during the term of this Agreement, Contractor agrees to carry insurance of types and in minimum amounts as follows:

(a) Comprehensive General Liability insurance with limits of $300,000 inclusive, for bodily injury and property damage, or with limits as specified in Exhibit A hereto.

(b) Employer's Liability insurance with limits of $300,000 inclusive, for bodily injury and property damage, or with limits as specified in Exhibit A hereto.

(c) Automobile Liability insurance with limits of $300,000 inclusive, for bodily injury and property damage, or with limits as specified in Exhibit A hereto.

(d) Adequate Worker's Compensation Insurance covering all Contractor's employees working under this Agreement which complies with Provincial, Territorial or Federal laws and regulations applicable to this Agreement.

(e) Other insurance as specified in Exhibit A hereto.

(f) All such insurance shall be carried in a company or companies acceptable to Operator and shall be maintained in full force and effect during the terms of this Agreement. Contractor agrees to have its insurance carrier and/or agent furnish Operator with a certificate or certificates evidencing insurance coverage in accordance with the above requirements.

12.2 In the event Contractor is a self-insurer and Operator has consented to Contractor being a self-insurer as to any one or more of the risks as to which coverage is herein required, evidence of such consent must be in writing and approved by a representative of Operator authorized to enter into such consent agreement.

12.3 Each party shall furnish to the other, on written request, copies of all its insurance policies relating to its operations hereunder and, if charged to the other party, premium receipts in respect thereof.

12.4 All insurance taken out by Contractor hereunder and any insurance taken out by Operator relating to this Agreement or any related subcontract shall be for the benefit of both parties. Provision shall be made that the underwriters thereof waive their rights of recourse against the other party hereto and against all persons for whom such other party is responsible in connection with this Agreement.

13. TAXES AND CLAIMS:

13.1 Contractor agrees to pay all taxes, licenses and fees levied or assessed on Contractor in connection with or incidental to the performance of this contract by any governmental agency for unemployment compensation insurance, old age benefits or any other taxes upon the wages of Contractor, its agents, employees, or representatives. Contractor agrees to require the same agreements and be liable for any breach of such agreements by any of its subcontractors.

13.2 Contractor agrees to pay all claims for labour, material, services and supplies furnished by Contractor hereunder and agrees to allow no lien or charge to be fixed upon the lease, the well or the land on which the well is to be drilled. Contractor agrees to indemnify, protect and save Operator harmless from and against all such claims and liens. If Contractor shall fail or refuse to pay any bona fide claims or indebtedness incurred by Contractor in connection with the drilling of any well or wells hereunder, it is agreed that Operator shall have the right to pay any such bona fide claims or indebtedness out of any money due or to become due to Contractor hereunder. No assignment or transfer by Contractor of rights to monies due Contractor hereunder shall have any force or effect as far as Operator's rights are concerned until all such claims and indebtedness incurred by Contractor shall have been completely liquidated and discharged.

13.3 Operator may require Contractor to furnish proof that there are no unsatisfied claims for labour, materials, services and supplies.

13.4 Operator may withhold a percentage of the price agreed to be paid Contractor for the purpose, in the manner, and for the time provided in applicable mechanic's or builder's lien legislation of the area where the work is performed, said percentage to be ultimately released in accordance with such legislation.

14. RESPONSIBILITY FOR LOSS OF OR DAMAGE TO THE EQUIPMENT OR TO THE HOLE:

14.1 Contractor's Surface Equipment: Contractor shall be liable at all times for damage or destruction of Contractor's surface equipment including all drilling tools, machinery, and appliances for use above the surface, and for any other type of equipment, including in-hole equipment when such in-hole equipment is above the surface regardless of when or how such damage or destruction occurs except loss or damage thereto caused by the gross negligence or wilful acts or omissions of Operator or Operator's agents, servants or employees or any loss or damage thereto occurring during the time that operations have been taken over by Operator as provided in Paragraph 6 hereof and except as provided in Paragraph 14.4 and 18.2 hereof.

14.2 Contractor's In-Hole Equipment — Drilling Basis: Contractor shall be liable at all times while work is being performed on a drilling basis for loss of, damage to or destruction of Contractor's in-hole equipment, including drill pipe, drill collars and tool joints. Operator shall be under no liability to reimburse Contractor for any such loss, damage or destruction except such as is caused by gross negligence or wilful acts or omissions of Operator or Operator's agents, servants or employees.

14.3 Contractor's In-Hole Equipment — Day Work Basis: Operator shall assume liability at all times for damage to or destruction of Contractor's in-hole equipment while such equipment is below the surface including but not limited to drill pipe, drill collars and tool joints, regardless of fault or negligence or alleged fault or negligence. The basis of reimbursement shall be as specified in Section 13(h) of Exhibit A.

14.4 Contractor's Equipment — Environmental Loss or Damage: Operator shall assume liability at all times and reimburse Contractor for damage to or destruction of Contractor's equipment both surface and in-hole equipment caused by exposure to corrosive or otherwise destructive or abrasive elements which are introduced into the drilling fluid from subsurface formations or the use of corrosive, destructive or abrasive additives in the drilling fluid. The basis of reimbursement shall be as specified in Section 13(h) of Exhibit A.

14.5 Operator's Equipment: All machinery, tools, material and equipment furnished by Operator shall, at the completion or abandonment of the well, be returned to Operator in as good condition as when received by Contractor, ordinary wear and tear excepted; provided that Contractor shall not be liable to Operator for any loss or damage to such machinery, tools, material and equipment over and beyond ordinary wear and tear except that due to gross negligence of Contractor and Contractor's employees.

14.6 The Hole — Drilling Basis: Except as provided in Section 9 and Section 14.8 hereof, should the hole for any cause attributable to Contractor's operations be lost or damaged while Contractor is engaged in the performance of work hereunder on a drilling basis, all such loss or damage to the hole shall be borne by the Contractor; and if the hole as the result of such cause is not in condition to be carried to the contract depth as herein provided, Contractor shall, if requested by Operator, commence a new hole without delay at Contractor's cost; and the drilling of the new hole shall be conducted under the terms and conditions of this contract in the same manner as though it were the first hole. In such case Contractor shall not be entitled to any payment or compensation for expenditures made or incurred by Contractor on or in connection with the abandoned hole, except for daywork earned in coring, testing, logging, or other daywork for which Contractor would have been compensated had such hole not been junked and abandoned.

14.7 The Hole — Daywork Basis: In the event the hole is lost or damaged while Contractor is working on a daywork basis or as a result of work performed on a daywork basis, Operator shall be responsible for such loss or damage to the hole including casing in the hole and any underground reservoir formation or stratum; and if the hole as the result of such cause is not in condition to be carried to the contract depth as herein provided, Contractor shall, if requested by Operator, commence a new hole without delay at Operator's cost; and the drilling of the new hole shall be conducted under the terms and conditions of this contract in the same manner as though it were the first hole.

14.8 Liability for Wild Well: Operator shall be liable for the cost of gaining control of any wild well, as well as the cost of removal of any debris and re-drilling expenses and Operator shall indemnify and save harmless Contractor against and from all such costs.

14.9 Personnel: Each party shall be responsible at all times for, and shall hold harmless and indemnify the other party from and against, loss of life or personal injury to its own personnel regardless of fault or negligence or alleged fault or negligence.

15. INDEPENDENT CONTRACTOR RELATIONSHIP:

15.1 Contractor shall be an independent contractor with respect to performance of all work hereunder and neither Contractor nor anyone employed by Contractor shall be deemed for any purpose to be the employee, agent, servant or representative of Operator in the performance of any work or service or any part thereof in any manner dealt with hereunder. Operator shall have no direction or control of Contractor or its employees and agents except in the results to be obtained. The work contemplated herein shall meet the approval of Operator and be subject to the general right of inspection herein provided for Operator to secure the satisfactory completion thereof.

16. LAWS, RULES AND REGULATIONS:

16.1 Contractor and Operator respectively agree to comply with all laws, rules and regulations, Federal, Provincial and Territorial, which are now or may become applicable to operations covered by this agreement or arising out of the performance of such operations.

17. FORCE MAJEURE:

17.1 Neither Operator nor Contractor shall be liable for failure to perform its obligations under this Agreement when performance is hindered or prevented by strikes, lock-outs, riots, war (declared or undeclared), acts of God, insurrection, fire, storm, hurricane, orders or regulations of any governmental authority, delays in transportation, inability to obtain the necessary materials and supplies on the open market or any other cause, whether similar or dissimilar to those specifically enumerated, beyond the reasonable control of the party affected; but lack of funds shall not be considered a cause beyond the reasonable control of a party. The performance of any such suspended obligation shall be resumed as soon as reasonably possible after such cause ceases to exist. Nothing in this item 15.1 shall relieve (a) Operator of its obligation under this Agreement to pay the appropriate dayrate(s) or (b) either party of its respective indemnification provisions specified in this Agreement.

18. SOUND LOCATION, INGRESS AND EGRESS:

18.1 Operator shall secure for Contractor rights of ingress and egress to the tract of land on which the well is to be drilled. Operator shall advise Contractor of any limitations or restrictions affecting ingress and egress and Contractor shall abide by such limitations or restrictions. Should Contractor be denied free access to the location for any reason not within the control of Contractor, time lost by such denial shall be paid for at a rate in keeping with the stage of operations at the time.

18.2 Operator shall be responsible (except as otherwise noted in Section 5 of Exhibit A) for preparing a sound location fully capable of supporting a drilling rig of the type and size specified in Exhibit A as well as a fully adequate conductor pipe program to assure that any soil or subsoil will not wash out. It is also recognized that Operator has superior knowledge of the location and must advise Contractor of any known subsurface conditions such as, but not limited to, mines, caverns, streams or springs that might be encountered which result in the cratering or the shifting of the location surface during the course of operations. If such conditions are encountered and result in the cratering or shifting of the location surface, Operator shall assume responsibility and pay all cost necessary to protect the drilling rig, its associated equipment and personnel from damage or harm. Operator shall be liable for all loss resulting from the conditions referred to in this paragraph and shall protect, indemnify and save harmless Contractor from and against all claims, demands and causes of action of any nature arising therefrom, including all associated legal costs.

19. POLLUTION AND CONTAMINATION:

19.1 It is understood and agreed by and between both parties that the responsibility for pollution or contamination shall be as follows:-

(a) Contractor shall assume responsibility for, including the control and removal of, and protect, defend and save harmless Operator against, all claims, demands and causes of action of every kind and character arising from pollution or contamination which originates above the surface of the ground from spills of fuels, lubricants, motor oils, wire cuttings, pipe dope, water, paints, solvents and garbage wholly in possession and control and directly associated with Contractor's equipment and facilities; expressly excepting slush pit breakage or seepage.

(b) Operator shall assume responsibility for, including control and removal of, and protect, defend and save Contractor harmless from and against, all claims, demands and causes of action of every kind and character arising from all other pollution or contamination which occurs during the conduct of operations hereunder including, but not limited to, that which may result from slush pit breakage or seepage, fire, blowout, cratering, or any other uncontrolled flow of oil, gas, water or other substance as well as the use or disposition of oil emulsion, water or oil base chemically treated drilling fluids, cuttings or caving and lost circulation materials or fluids, and the items of equipment wholly in possession and control of Operator and directly associated with Operator's equipment or facilities. Operator shall provide a suitable site for the removal, burning or burying of any garbage, oil waste products or other similar pollutants normally associated with a drilling rig operation. The site so designated shall be built at the sole cost of Operator; Contractor shall be advised by Operator as to any Provincial, Territorial or Federal regulations governing the use of such a site; Operator shall protect, indemnify and save harmless Contractor from and against all claims arising from its use.

20. PATENTS AND LICENSES:

20.1 Contractor represents and warrants that the use or construction of any and all tools and equipment furnished by Contractor and used in the work provided for herein does not infringe on any license or patent which has been issued or applied for. Contractor agrees to indemnify and hold Operator harmless from any and all claims, demands, and causes of action of every kind and character in favor of or made by any patentee, licensee or claimant of any right or priority to any such tool or equipment, or the use or construction thereof, which may result from or arise out of the furnishing or use of any such tool or equipment by Contractor in connection with the work under this agreement.

21. INFORMATION CONFIDENTIAL:

21.1 All information obtained by Contractor in the conduct of drilling operations on this well including, but not limited to, depth, formations penetrated, the results of coring, testing, surveying, the running of casing and the running of abandonment plugs, shall be considered confidential and shall not be divulged by Contractor, or his employees, to any person, firm or corporation other than Operator's designated representative.

22. ENTIRE AGREEMENT:

22.1 This agreement (including Exhibit A hereto) constitutes the entire agreement between Operator and Contractor in connection with the subject matter hereof and supersedes all prior agreements, arrangements, negotiations, representations or understandings by or between them, whether written or otherwise.

23. INTERPRETATION:

23.1 Whenever the singular or masculine or neuter is used in this agreement, the same shall be construed as meaning plural, feminine or body politic or corporate and vice versa where the context so requires.

WITNESS the signatures of the parties hereto in DUPLICATE ORIGINALS, this 23rd day of July, A.D. 19 81.

WITNESS: (unless signed under seal)

E. G. Hayes

Texas Oil & Gas Corporation
Operator

By:

By:

WITNESS: (unless signed under seal)

Bird Drilling Inc.
Contractor

By:

By:

APD FILING CHECKSHEET

Well Name: [illegible] "B" 1 USGS District: [illegible]
Location: BLM District:
County & State: Land Status:

Location Staking Limits:

PROCESS ACTIVITIES	Date Requested/Scheduled		Date Received/Performed	
Preliminary Environment Review	[illegible]			
Location Survey (Contr: [illegible])	[illegible]		[illegible]	[illegible]
Archeology Survey (Contr:)				
Joint On-site Inspection				7/8/81
Designation of Operator/Agent				
ROW Permit (for:)				
Surface Owner Agreement				
Water Permit (type:)				
State APD and Filing Fee				
Spacing Exception				
Federal APD/MSUOP	[illegible]		7/13/81	
Sundry Notice for:				
[illegible]	[illegible]			
Other:				
Sundry [illegible]	[illegible]			

Special Stipulations on Approved Permit:

Drilling & Production Manager Notified of Permit Completion/Requirements:

Copy of Approved Permit with Stipulations to Dirt Contractor:
(Contractor:) Date:
BLM Notification 24 hours before initiating construction:
(Contact:) Date:
Compliance Status: Inspection Date: Staff:
Compliance Certified: Declined:

MAR02-0175

MAR-175

TEXAS OIL & GAS CORP.

Inter-Office Memorandum

Date: July 22, 1981

To: Well File
Denver

From: C.K. Curlee

Re: Buckles "B" #1
Section 22-T28N-R51E
Roosevelt County, Montana

On 8 July 1981 an on-site inspection was held for the Buckles "B" #1 well location. In attendance were the following:

Warren Korinek	USGS, Environmental Scientist
Jim Lundberg	BIA, Supervisory Soil Conservationist
Bill Sherrodd	Dirt Contractor
Leo Heath	TXO, Billings
Joe Kagee	TXO, Billings
C.K. Curlee	TXO, Denver

Major points of discussion during the on-site inspection included access, production facilities, pad layout, and potential H_2S hazard.

The access route was changed. The access will follow the recently upgraded road to the Buckles "A" #1. The new access road will continue east along the half section line (a disturbed plow line) and turn north to proceed past the "B" #2 location to the "B" #1 location (see attached map).

The production facilities were also changed. Separate production facilities will not be set at the pad for the Buckles "B" #1. Instead, a separate tank battery will be established at the location of the Buckles "A" #1 and pipelines carrying oil and produced water will be constructed to the Buckles "A" #1 location. Produced water will be injected into the salt water disposal well and oil will be stored in the new tank battery, separate from the tank battery for the Buckles "A" #1 lease. Only a treater will be required at the location of the Buckles "B" #1 with a minimum access road to the location.

The major change in the pad layout was the inclusion of a fresh water/wash water pit. This pit will be approximately 20' x 60' x 8' deep and will be constructed south of the reserve pit. A small ditch will be dug from the rig to this wash water pit. The pit will be unlined and will hold fresh water that is used to wash down the derrick and rig area. Use of the wash water pit to hold fresh water reduces the cost of drilling muds and other additives which are concentrated in the reserve pit. Since the pit will hold fresh water, the BIA representative had no concerns about the water seeping into the surrounding ground.

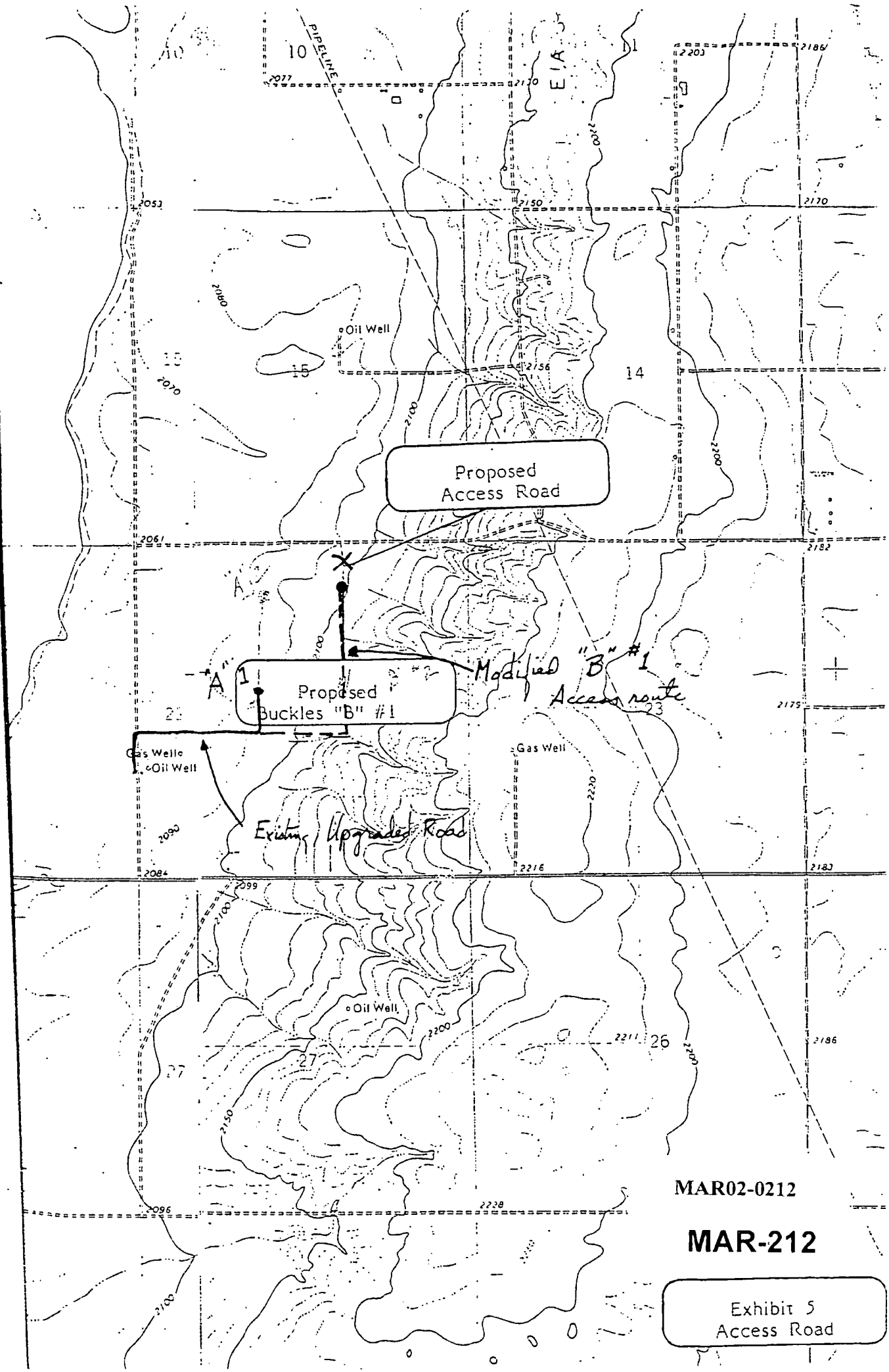
The potential for an H_2S hazard was briefly discussed. Leo Heath indicated that a small trace of H_2S was present in the oil bearing Charles River Formation. The crude hauler for the Buckles "A" #1 reported that the concentration in the oil was 4 ppm, considered sweet oil in the region. USGS, however, requested a revision to the APD package indicating that a contingency plan would be implemented in the event higher concentrations of H_2S are encountered.

The schedule for permit approval was discussed. USGS and BIA were made aware of our goal to commence construction about 15 July 1981. BIA stated that they would forward stipulations by close of business 8 July 1981. Korinek indicated that he would be in the office 10 July 1981 and that he would prepare the permit documents for signature on 13 July 1981. Based on this scheduling, the approved permit would be ready to be picked up either late on Monday, the 13th of July, or on Tuesday the 14th.

CKC

CKC

CKC/BS
cc/Leo Heath



MAR02-0212

MAR-212

Exhibit 5
Access Road

OPERATIONAL SUMMARY

AND

GEOLOGICAL WELL HISTORY

TEXAS OIL AND GAS CORP.
Buckles "B" #1
C NW NE Section 22-28N-51E
(660'Fnl - 1980'- Fel)
Roosevelt County, Montana

TEAGUE GEOLOGICAL, INC.
147 Main Street
Shelby, Montana
Carter Stewart, Geologist

MAR02-0213

MAR-213

RESUME'

Spud Date:	August 11, 1981
Completion Date:	August 23, 1981 (Ran 4½" production casing)
Status:	Probable Charles "C" Zone Oil Well(W.O.C.T.)
Elevation:	2106' G.L. 2119' K.B.
Total Depth:	5920' Driller 5905' Logger
Casing:	8 5/8", 24#/ft., 26 joints set @1149' K.B. w/700 sx 4½", 19 joints, 11.6#/ft. 122 jts. 10.5#/ft. set at 5910' KB w/720 sx
Contractor:	Bird Drilling Company, Ltd. Rig No. 5
Type Rig:	National 370
Type Mud Pumps:	Emsco DB 550 (16"x5½") Emcso D375(14"x5½")
Mud Program:	Chemical and Gel (salt mud)
Hole Size:	12¼" (0-1210') sfc; 7 7/8"(1210'-5920') Main
Size Drill Pipe:	4½" X-hole 4½" O.D.x 2¼" I.D.
Size Drill Collars:	4½" h-90 6¼" O.D. x 2¼" I.D.
No. Drill Collars:	19 (590')
Sample Interval:	30' (5000;-5300') 10' (5300'-5820')
Sample Quality:	Fair
Cores:	None
Drill Stem Tests:	None

SAMPLE DISTRIBUTION

Texas Oil and Gas Corporation, 2705 Montana Ave., Ste #300, Billings, Montana 59101

Montana Oil and Gas Commission, 2385 St. Johns Ave., Billings, Montana 59102

LOGGING PROGRAM

Ran Schlumberger Logs: Simultaneous Compensated Neutron Formation Density from 5902' to 4600' - Simultaneous Dual Laterolog Micro-SFL from 0-5904'. Syberlook from 5500' tp 5905'

MUD SUMMARY

Salt Gel	353 sx	Starch	192 sx
Lime	6 sx	Preservative	1 sx
Salt	349 sx	Chromate	6 sx
Floculant	3 sx	Mica	50 sx
Cedar Fiber	18 sx		

MAR02-0214

MAR-214

BIT RECORD

No.	Size	Make	Type	Interval	Footage	Hours	Jet Size	Serial No.
1A	12 1/4	HTC	OSC3-A	0-859	859	13 1/4	3(20)	RT
1B	12 1/4	HTC	OSC3-A	859-1210	381	3 1/4	3(20)	MV 089
1	7 7/8	STC	SDS	1210-3485	2275	13	3(16)	BC 814
2	7 7/8	STC	SDS	3485-3984	499	12 3/4	3(15)	BC 7562
3	7 7/8	STC	S84F	3984-5087	1103	71 1/4	3(15)	788809
4	7 7/8	HTC	J-22	5087-5890	804	61 1/4	3(15)	MF 732
5	7 7/8	STC	F-3	5890-5920	30	2	3(15)	BL 5411

VERTICAL HOLE DEVIATION SURVEYS

Depth	Degrees
1210	2
1800	1
2328	2
2981	1½
3356	1¼
3485	1
3984	1
4611	1½
5081	1
5567	1
5920	1

ELECTRICAL LOG FORMATION TOPS

	Depth	Datum
Cretaceous:		
Greenhorn	2366	- 247
Muddy	2958	- 839
Jurassic:		
Rierdon	4128	-2009
Piper Lime	4366	-2247
Permian:		
Amsden	4744	-2625
Pennsylvanian:		
Tyler	4864	-2745
Mississippian:		
Otter	4912	-2793
Kibby Sandstone	5174	-3055
Kibby Limestone	5306	-3187
Charles	5481	-3362
'B' Zone	5648	-3525
Greenpoint Anhydrite	5717	-3598
'C' Zone	5804	-3685
Total Depth:	5905	-3786

MAR02-0215

MAR-215

DAILY ACTIVITY SUMMARY(CALENDAR DAYS)

August 8, 1981	Move in and rig up Bird Drilling Company, Ltd. Rig No. 5: Work on rig
August 9, 1981	Put draw works together and work on rig
August 10, 1981	Work on rig
August 11, 1981	Work on rig: Rig up to drill
August 12, 1981	Spud 12¼" surface hole:drilled 12¼" surface hole from 0-859': tripped for Bit 1B:drilled 12¼" surface hole from 859;-1210': Ran 26 jts. 8 5/8" casing, 24#/ft set at 1149' KB; cemented with 700 sx 2% CaCl, type G cement; plugged down 10:30 p.m.: good returns
August 13, 1981	W.O.C.:nipple up: pressure up BOP: drilled out at 10:00 P.M.: drilled 7 7/8" hole from 1210' to 1612'
August 14, 1981	Drilled 7 7/8" hole from 1612-3485': Come out of hole; put on shock sub and Bit No. 2: drilled 7 7/8" hole from 3485' to 3737'
August 15, 1981	Drilled 7 7/8" hole from 3737' to 3984': trip for Bit No. 3: Drilled 7 7/8" hole from 3984' to 4192'
August 16, 1981	Drilled 7 7/8" hole from 4192' to 4569'
August 17, 1981	Drilled 7 7/8" hole from 4569' to 4847'
August 18, 1981	Drilled 7 7/8" hole from 4847' to 5087' Trip for Bit No. 4: drilled 7 7/8" hole from 5087' to 5093
August 19, 1981	Drilled 7 7/8" hole from 5093' to 5411'
August 20, 1981	Drilled 7 7/8" hole from 5411' to 5722'
August 21, 1981	Drilled 7 7/8" hole from 5722' to 5884': Lost circulation: Circulate LCM: Drilled 7 7/8" hole from 5884' to 5890': Trip for Bit No. 5
August 22, 1981	Drilled 7 7/8" hole from 5890' to 5920' T.D.: Condition hole for loggers: Ran Schlumberger Logs. Condition hole for casing
August 23, 1981	Ran 4½" production casing; 19 joints 11.6#/ft, 122 joints 10.5#/ft. stage collar set at 5398' K.B.; shoe set at 5910' K.B., cemented with 110 sacks Class G cement; lead, 485 sacks 65-35 fac; tail, 125 sacks Class G cement: Report Ends.

MAR-216

MAR02-0216

LITHOLOGY

Sample descriptions begin at 5000' in Mississippian Otter beds. Samples are corrected for drill time lag. Samples were examined and described wet. Carbonates were described dry. Formation tops were determined from electrical logs.

SAMPLES CAUGHT IN 30' INTERVALS:

5000-30	Shale, green to grayish green, firm, chunky, waxy, silty in part, somewhat calcareous, variegated in part. Also tan, fragmental, firm to hard, massive to somewhat granular, very calcareous limestone that is oolitic in part, no shows
5030-60	Shale, dk gray to greenish gray, gritty, silty in part, chunky, dense, firm to soft, somewhat calcareous. Also limestone as above
5060-90	Shale, dk gray to lt gray, earthy to gritty, chunky, firm to soft, marly, very calcareous, dense
5090-5120	Shale, dk gray to light gray, gritty, chunky, firm, calcareous in part, dense. Some brown to light brown, cryptocrystalline, massive in part, fragmental, firm, very calcareous, tight, lime stringers
5120-50	Siltstone, light gray, friable, shaly, abrasive, gritty, quartzose, slightly calcareous matrix. Also limestone, tan, massive to granular, cryptocrystalline to microcrystalline in part, fragmental, firm, dull yellow mineral fluorescence but no cuts

5174 - E LOG TOP -KIBBY SANDSTONE

5150-80	Sandstone, white to lavender to red, very fine to fine grained, poorly sorted, firm to friable, subrounded quartzose grains, calcareous matrix, appears tight; much tan to light brown fragmental, cryptocrystalline to sublithographic firm, dense limestone. Dull yellow mineral fluorescence, no cuts
5180-5210	Sandstone, white to lavender to red, very fine to medium grained, poorly sorted, subrounded, quartzose, clear to somewhat frosted grains, friable with a calcareous matrix, intergranular porosity seems poor, no shows
5210-40	Sandstone, red, very fine to medium grained, poorly sorted, subrounded quartzose grains, clear to milky, trace green grains, friable, calcareous matrix, intergranular porosity seems poor, trace coarse grains, many quartz grains stained red, no shows
5240-70	Sandstone as above
5270-5300	Sandstone as above, becoming slightly finer grained

BEGIN 10' SAMPLES:

5306 - E LOG TOP - KIBBY LIMESTONE

MAR02-0217

MAR-217

5300- 10	Sandstone, red, silt to fine grained, poorly sorted, subrounded, calcareous matrix, friable, quartzose, clear to milky grains, appears tight, no shows
5310-20	Limestone, white to tan to light brown, fragmental, cryptocrystalline to microcrystalline, sucrosic in part, firm, very calcareous, granular and massive in part, no good intercrystalline porosity noticeable, trace bright yellow fluorescence producing slow flowing cuts. May be contamination
5320-30	Sandstone, white to dirty white, silt to fine grained, trace medium grains, subangular to subrounded, clear to somewhat frosted quartzose grains, very calcareous matrix, friable, appears tight, poorly sorted, poor intergranular porosity, no shows. Much limestone as above
5330-40	Sandstone, red, silt to very fine grained, poorly sorted, friable to firm, quartzose, matrix is slightly calcareous, appears tight, no shows
5340-50	Sandstone as above, also limestone; tan, fragmental, firm, cryptocrystalline to sucrosic, sublithographic in part, also massive in part, poor intercrystalline porosity, no shows
5350-60	Sandstone as above, red
5360-70	Sandstone as above, red
5370-80	Sandstone as above, red
5380-90	Siltstone, red, chunky, firm, some very fine sand, moderately sorted, calcareous, gritty, abrasive somewhat, trace medium and fine grained quartz grains within, no shows
5390-5400	Siltstone as above, no shows
5400-10	Sandstone, red, very fine grained, moderately sorted to poorly sorted, quartzose, calcareous matrix, trace fine to medium grains, friable, appears tight, no shows
5410-20	Sandstone as above, no shows
5420-30	Sandstone as above, no shows
5430-40	Sandstone as above, no shows
5440-50	Limestone, dirty white to gray, fragmental, firm, cryptocrystalline to microcrystalline, sucrosic and sublithographic in part, intergranular porosity seems poor, very calcareous, scattered bright yellow fluorescence, weak, very faint cuts, fossiliferous in part
5450-60	Limestone, dirty white to gray brown, fragmental firm, microcrystalline to sucrosic, cryptocrystalline in part, fossiliferous in part, no good intercrystalline porosity noticeable, no show
5460-70	Limestone, gray, microcrystalline to chalky, cryptocrystalline to sucrosic in part, firm, fragmental, no intercrystalline porosity noticeable, no shows. Many coarse, angular, conchoidally fractured, unconsolidated, quartz grains

MAR02-0218 MAR-218

5470-80	Limestone as above, many quartz fragments as above

5481 - E LOG TOP - CHARLES

5480-90	Limestone, gray to gray brown, microcrystalline to sucrosic, massive in part, firm, fragmental, no good inter intercrystalline porosity noticeable, scattered bright yellow fluorescence producing slow flowing cuts
5490-5500	Limestone, medium gray to dark gray brown, cryptocrystalline to microcrystalline, sucrosic in part and chalky in part, some noticeable intercrystalline porosity, fragmental, firm, scattered fluorescence producing slow flowing cuts. Trace pink colored lime fragments
5500-5510	Limestone, light gray brown to dark gray brown, cryptocrystalline to microcrystalline, firm, fragmental, massive in part, sucrosic in part, no intergranular porosity noticeable, trace fluorescence, no cuts
5510-20	Limestone, as above, with scattered bright yellow fluorescence that produce slow flowing cuts
5520-30	Limestone, tan to dark gray brown, microcrystalline to cryptocrystalline, massive to sublithographic in part, firm, fragmental, no good intercrystalline porosity noticeable, scattered bright yellow fluorescence producing slow flowing cuts
5530-40	Limestone, dark graybrown, cryptocrystalline to microcrystalline, sucrosic to sublithographic in part, massive, firm, fragmental, no intercrystalline porosity noticeable, appears dense and tight, no shows
5540-50	Limestone as above, no shows
5550-60	Limestone, dark gray brown, microcrystalline to sucrosic, sublithographic in part, vuggy in part, appears to have fair intercrystalline porosity in some fragments, firm, fragmental, no shows
5560-70	Limestone, light gray brown to dark gray brown, cryptocrystalline to microcrystalline, sublithographic in part, massive, firm, fragmental, argillaceous, no good intercrystalline porosity noticeable, dull mineral fluorescence noticeable, no cuts
5570-80	Limestone as above, no shows
5580-90	Limestone, tan to light brown, some dark brown, firm, fragmental, microcrystalline to sucrosic, massive, chalky in part, cryptocrystalline in part, no noticeable intercrystalline porosity, trace fluorescence, no cuts, argillaceous
5590-5600	Limestone as above, also anhydrite: White, amorphous, soft, chunky, noncalcareous, scattered bright yellow fluorescence, producing slow flowing cuts
5600-10	Dolomite, tan to very light dull brown, earthy textured, massive, fragmental, firm, slow fizz in HCl. Also anhydrite as above, trace fluorescence producing slow flowing cuts

MAR02-0219

MAR-219

5610-20 Limestone, tan to lt. gray, firm, fragmental; microcrystalline to cryptocrystalline, sucrosic and sublithographic in part, trace micropyritic specks, massive in part, no noticeable intercrystalline porosity, trace scattered fluorescence that produce weak slow flowing cuts

5620-30 Limestone, tan to brown, cryptocrystalline to microcrystalline, sub-lithographic in part, massive, firm, fragmental, trace pink lime fragments, micropyritic in part, no noticeable intercrystalline porosity or vugs, trace fluorescence but no cuts

5630-40 Limestone, white to tan, microcrystalline to granular, sucrosic in part, firm, fragmental, appears to have some intercrystalline porosity (poor to fair), scattered dull fluorescence but no cuts. Also anhydrite; white, soft, crystalline to massive and chalky

5644' - E LOG TOP CHARLES 'B' ZONE

5640-50 Limestone, tan to graybrown, firm, fragmental, cryptocrystalline to sublithographic, sucrosic to microcrystalline in part, argillaceous, no good porosity noticeable, no shows. Scattered anhydrite as above. Also, coarse, angular, clear, conchoidally fractured, unconsolidated quartz grains

5650-60 Limestone, tan to dark gray brown, firm, fragmental, cryptocrystalline to microcrystalline, sucrosic in part, coarsely crystalline in rare fragments, appears tight, maybe some intercrystalline porosity, no shows. Scattered quartz as above

5660-70 Limestone, tan to dark brown, cryptocrystalline to microcrystalline, sucrosic in part, sublithographic in part, firm, fragmental, vuggy in part, many have some porosity, scattered bright yellow fluorescence producing slow flowing cuts. Some anhydrite; white, soft, crystalline to chalky and massive

5670-80 Limestone, tan to dark graybrown, microcrystalline to sucrosic, sublithographic, cryptocrystalline in part, firm, fragmental, massive in part, no noticeable intercrystalline porosity, no shows. Trace anhydrite as above

5680-90 Limestone as above, no shows. Also anhydrite as above

5690-5700 Limestone as above, no shows

5700-10 Limestone, tan to white, microcrystalline to sucrosic, coarsely crystalline and granular in part, sublithographic in part, fragmental, firm, many have some intercrystalline porosity, poor if any, trace fluorescence with some very weak cuts

5717' - E LOG TOP - GREENPOINT ANHYDRITE

5710-20 Limestone, tan to dark gray brown, cryptocrystalline to microcrystalline, sublithographic and massive in part, firm, fragmental, no apparent porosity, scattered bright yellow fluorescence producing slow flowing cuts

MAR02-0220 MAR-220

5720-30	Limestone, tan to dark graybrown, cryptocrystalline to microcrystalline, coarsely crystalline in part, also sucrosic and sublithographic in part, also sucrosic and sublithographic in part, firm, fragmental, trace vugs, no apparent porosity, trace bright yellow fluorescence but no cuts
5730-40	Dolomite, tan to light gray, firm, fragmental, microcrystalline to sublithographic and massive, micropyritic in part, slow fizz in HCl, some limestone, no noticeable porosity, sucrosic in part, no shows
5740-50	Limestone, tan to gray to brown, cryptocrystalline to microcrystalline, sublithographic and massive in part, dolomitic in part, firm, fragmental, no noticeable porosity, no shows, micropyritic in part, trace white, massive to crystalline, soft, anhydrite
5750-60	Limestone, tan to dark gray brown, microcrystalline to sucrosic, firm, fragmental, coarsely crystalline in part, may be some small amounts of intercrystalline porosity, dull mineral fluorescence, no cuts
5760-70	Limestone as above
5770-80	Limestone, medium gray to dark graybrown, firm, fragmental, microcrystalline to sublithographic, massive in part, sucrosic in part, no noticeable porosity, trace fluorescence, no cuts, trace white, crystalline to massive, soft anhydrite
5780-90	Limestone, gray to dark gray brown, firm, fragmental, cryptocrystalline to very finely microcrystalline, sucrosic in part, dolomitic in part, no noticeable porosity, no shows
5790-5800	Limestone as above, no shows

5904' E LOG TOP CHARLES 'C' ZONE

5800-10	Limestone as above, trace micropyrite, no shows

BEGIN 5' SAMPLES:

5810-15	Limestone, dk brown, cryptocrystalline to sublithographic, massive in part, somewhat sucrosic in part, micropyritic in part, firm, fragmental, trace microcrystalline fragments, no noticeable porosity, scattered bright yellow fluorescence that produce weak slow flowing cuts
5815-20	Limestone, dk graybrown, cryptocrystalline to microcrystalline, sucrosic in part, firm, fragmental, trace coarsely crystalline fragments, micropyritic, no noticeable intercrystalline porosity, scattered bright yellow fluorescence, very weak cuts
5820-25	Dolomite, light brown, very finely microcrystalline to sucrosic. soft, vuggy in part, some scattered, black tarry residue within, slow fizz in HCl, scattered fluorescence that produce slow greenish yellow flowing cuts
5825-26	Dolomite, light brown to brown, very finely microcrystalline to sucrosic, soft, vuggy in part, scattered black tarry residue within, slow fizz in HCl, scattered bright greenish yellow fluorescence that produce slow flowing greenish yellow cuts

MAR02-0221

MAR-221

5826-32	Limestone, brown, very finely microcrystalline to sucrosic, firm, fragmental, no noticeable porosity, no shows, trace amounts of dolomite as above
5832-37	Dolomite, lt brown to brown, very finely microcrystalline to sucrosic, soft, poor to fair intercrystalline porosity, scattered yellowishgreen fluorescence that produce slow flowing cuts. Some black tarry residue within fragments
5837-40	Dolomite, as above, fluorescence and cuts as above
5840-50	Limestone, gray to graybrown, firm, fragmental, dolomitic in part, microcrystalline to sublithographic, massive in part, micropyritic in part, no noticeable porosity, no shows
5850-60	Limestone as above, no shows
5860-70	Limestone, dk gray to gray brown, very finely microcrystalline to massive, firm, fragmental, sublithographic in part, no noticeable porosity, no shows
5870-80	Limestone, dk gray to dk graybrown, cryptocrystalline to microcrystalline, sucrosic in part, massive in part, firm, fragmental, no noticeable porosity, no shows
5880-90	No sample recovered due to L.C.M.
5890-5900	No sample recovered due to L.C.M.
5900-10	Limestone, tan to very dark gray brown, cryptocrystalline to microcrystalline to massive, sucrosic in part, soft to firm, chalky in some soft fragments, no noticeable porosity, scattered bright yellow fluorescence, producing weak slow flowing cuts
5910-20	Limestone, white to tan to dark gray, microcrystalline to cryptocrystalline to massive, coarsely crystalline in part, sucrosic in part, many have some intercrystalline porosity, scattered bright yellowish white fluorescence, producing slow flowing cuts.

5920' Total depth by driller

5905' Total Depth by logger

14' Depth discrepancy from pipe strap

MAR02-0222

MAR-222

LOCATE WELL CORRECTLY

	22		

Form No. 4
(Gen. Rule 206.3 and 230)

(SUBMIT IN TRIPLICATE)
TO
BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

COMPLETION REPORT

npany TXO Production Corp. Lease Buckles "B" Well No. 1

dress 2705 Montana Ave. Suite 300 Billings, MT 59101 Field (or Area) East Poplar

e well is located 660 ft. from ~~(S)~~ (N) line and 1980 ft. from ~~(W)~~ (E) line of Sec. 22

22; T. 28N; R. 51E; County Roosevelt; Elevation 2106 ~~KB~~ or G.L.)

mmenced drilling August 11, 19 81, Completed October 19, 19 81

The information given herewith is a complete and correct record of the well. The summary on this page is for the condition the well at the above date.

mpleted as Temporarily Abandoned (oil well, gas well, dry hole)

Signed Leo A. Heath

Title Project Engineer

Date October 30, 1981

IMPORTANT ZONES OF POROSITY

(denote oil by O, gas by G, water by W; state formation if known)

om 5802 to 5808' O & W From to

om to From to

om to From to

om to From to

CASING RECORD

Size Casing	Weight Per Ft.	Grade	Thread	Casing Set	From	To	Sacks of Cement	Cut and Pulled from
8-5/8"	24	K-55	ST&C	1146	Surf	1146'	760	None
4-1/2"	10.5 & 11.6	K-55	ST&C	5913	Surf	5913'	585	None

TUBING RECORD

Size Tubing	Weight Per Ft.	Grade	Thread	Amount	Perforations
2-3/8"	4.7	J-55	EUE 8rd	5735'	None

COMPLETION RECORD

otary tools were used from Surface to 5913'

able tools were used from to

otal depth 5913 ft.; Plugged back to 5835' T.D.; Open hole from to

PERFORATIONS			ACIDIZED, SHOT, SAND FRACED, CEMENTED			
Interval From	Interval To	Number and Size and Type	Interval From	Interval To	Amount of Material Used	Pressure
5806	5808	2 JSPF	5806	5808	200 gal Acid	3100 to 1800 psi
			5806	5808	Squeezed w/185 sx cmt	2100 psi
5802	5804	2 JSPF	5802	5804	200 gal Acid	800 psi

(If P&A show plugs above)

INITIAL PRODUCTION

ell is producing from Charles "C" (pool) formation.

P 6 barrels of oil per 24 hours flowing - well temporarily abandoned (pumping or flowing)

TSTM Mcf of gas per hours.

622 barrels of water per 24 hours, or 99 % W.C.

(OVER)

MAR02-0223

MAR-223

INITIAL PRODUCTION—(Continued)

.tial 10-day average production Temporarily Abandoned (bbl./day) (if taken)
essures (if measured): Tubing 200 psi flowing; 500 psi shut-in
Casing 0 psi flowing; packer psi shut-in
'avity 39.6 ° API (corrected to 60° F.)

DRILL STEM TESTS

D.S.T. No.	From	To	Tool Open (Min.)	Shut-In	F.P.	S.I.P.	Recovery	Cushion

CORES

No.	Interval	Recovered

LOG RUNS

Type	From	To
GR-DLL-MSFL		
GR-CNL-FDC-CAL		

FORMATION RECORD

(Need not be filled out if Geologist sample description filed with Commission)

From	To	SAMPLE AND CORE NO. AND DESCRIPTION	Top of Formation

MAR02-0224

MAR-224

TEXAS OIL & GAS CORP. DRILLING PROGNOSIS

DATE: 8-5-81 WELL NAME & NO.: Buckles "B" #1 COUNTY: Roosevelt

AFE NO: 81-1217 LOCATION: NW NE Sec. 22, T28N, R51E STATE: Montana

FIELD: TOTAL DEPTH: 6000' ELEV.: 2106 GL

KB

CASING PROGRAM

STRING	SIZE	SECTION LENGTH	WT.	GRADE	COUPLING	THREAD	HOLE SIZE	SUPPLIER & LOCATION
"Revision"								
Production	4½"	5200' 800'	10.5 11.6	K-55 K-55	ST&C ST&C	8rd 8rd	7 7/8" 7 7/8"	Stock Stock

CEMENTING PROGRAM

CASING STRING	SET @ FT.	CEMENT VOLUME	% EXCESS	TOP OF CEMENT	TYPE OF CEMENT	ADD. NO.	YIELD / WATER	WOC HRS.	COMPANY
"Revision"									
Production	6000'								
1st Stage									
Slurry		160 sxs*	10						
2nd Stage									
Lead		425 sxs*	10						
Tail		125 sxs							

* Same as 5½"

SPECIAL EQUIPMENT:

4½": Same as 5½"

ADDITIVES:

MUD PROGRAM

COMPANY:

INTERVAL	TYPE MUD	MUD WT.	VIS.	W.L.	LCM (PPB)	NaCl Conc.	PH	CHEMICALS

MAR02-0225

MAR-225

LOGGING PROGRAM & ESTIMATED FORMATION TOPS

COMPANY: _____

FORMATION	DEPTH	TYPE LOG	INTERVAL

TESTING AND CORING PROGRAM

DRILL STEM TESTING PROGRAMS — TESTING COMPANY: _____

CORING PROGRAM — CORING COMPANY: _____

SAMPLE AND DRILLING TIME PROCEDURE

PERSONNEL

NAME	POSITION	HOME PHONE	OFFICE PHONE

MISCELLANEOUS

Roads and location inspected by _____ before MIRT.

MAR02-0226

MAR-226

DATE: 6-29-81 | WELL NAME & NO.: Buckles "B" #1 | COUNTY: Roosevelt

AFE NO: 81-1217 | LOCATION: NW NE Sec. 22, T28N R51E | STATE: Montana

FIELD: East Poplar | TOTAL DEPTH: 6000' | ELEV.: 2106 GL

KB

CASING PROGRAM

STRING	SIZE	SECTION LENGTH	WT.	GRADE	COUPLING	THREAD	HOLE SIZE	SUPPLIER & LOCATION
Surface	8 5/8"	1200'	24#	K-55	ST & C	8RD	12 1/4"	Stock
Production	5½"	5200'	15.5	K-55	ST & C	8RD	7 7/8"	Stock
		800'	17.0	K-55	ST & C	8RD	7 7/8"	Stock

CEMENTING PROGRAM

CASING STRING	SET @ FT.	CEMENT VOLUME	% EXCESS	TOP OF CEMENT	TYPE OF CEMENT	ADD. NO.	YIELD / WATER	WOC HRS.	COMPANY
urface	1200'								Western
st Stage	1200'								
Slurry		360 sxs	100	700	Class "G"	(1)	1.15/5.0	4	
nd Stage	700'								
Lead		400 sxs	100	Surface	Class "G"	(1)	1.15/5.0	12	
Tail		100 sxs			Class "G"	(2)	1.15/5.0		
roduction	6000'								Western
st Stage	6000'								
Spacer		20 bbls			Salt Wtr.				
Flush		20 bbls			Mud Flush				
Slurry		120 sxs*	10	5200'	1-2 Talc	(3)	1.45/6.0	4	
nd Stage									
Spacer		10 bbls			Salt Wtr.				
Flush		10 bbls			Mud Flush				
Lead		340 sxs*	10	3200'	TXl Lite	(4)	1.45/7.65		
Tail		100 sxs			Class "G"	(5)	1.15/5.0	24	

The values shown are estimated. Actual values will be calculated caliper volumes plus 10% excess.

SPECIAL EQUIPMENT:

8 5/8": guide shoe, insert type orifice fill float, two model "RTS" Lynes external casing packers (one above (700') and one below (900') the Judith River), 6-8 centralizers as needed.

5 1/2": guide shoe, diff. fill collar, centralizers TD to 100' above pay zone at 80' spacing.

ADDITIVES:

(1) 2% CaCl
(2) 2% CaCl, 13% Thixad
(3) 10% NaCl, 0.6% CF-2, 0.3% WR-15, 35% Silica flour, 1½#/sk Permachek, 0.2% AF-11
(4) 1% CF-10, 0.2% AF-11, 2% CaCl
(5) 10% NaCl, 0.6% CF-2, 2% $CaCl_2$, 1½#/sk Permachek

MUD PROGRAM

COMPANY: Red River Mud Company

MAR02-0227

INTERVAL	TYPE MUD	MUD WT.	VIS.	W.L.	LCM (PPB)	NaCl Conc.	PH	CHEMICALS
0' - 100'	Salt Water	8.8 - 9.4	28-32	N.A.			+ 7	Lime and/or gel in sweeps
100' - 1200'	Brine Mud	9.3 - 9.8	30-33	N.A.	*		± 7	Salt gel and gel.
200' - 3100'	Salt Water	8.8 - 9.4	28-32	N.A.			± 7	Lime &/or gel in sweeps.
100' - 5600'	Brine Mud	9.2 - 10.0	30-38	25-30			+ 7	Salt gel, gel, starch
600' - TD	Brine Mud	9.6 - 11.4	10-15		**		± 7	Salt gel, gel, starch

Water flows may be encountered from 150' down to 850 with an almost certain flow at 850'.
Mud weights in excess of 11.0 ppg may be necessary.
* Before approx. 5750' the system should be pre-treated with 2.0# LCM per barrel and the mud weight should be 10.8 - 10.9 ppg.

MAR-227

MPANY: Schlumberger

ORMATION	DEPTH	TYPE LOG	INTERVAL
enhorn	2370'	DLL + Micro SFL-GR-CAL	Base surf. csg to TD.
dy	2969'	FDC-CNL-GR-CAL	4000' to TD.
rdon	4134'		
er Lm	4378'		
den	4750'		
er	4878'		
er	5032'		
bey Ls.	5328'		
rles	5479'		
enpoint	5710'		
rles "C" Ø	5815'		

TESTING AND CORING PROGRAM

RILL STEM TESTING PROGRAMS — TESTING COMPANY: Max's Testing (Glendive)

ossible DST of top Charles "C" interval

ORING PROGRAM — CORING COMPANY:

ONE

SAMPLE AND DRILLING TIME PROCEDURE

PERSONNEL

AME	POSITION	HOME PHONE	OFFICE PH
on Becker	Project Manager Mobile Phone:	406-652-3623 406-259-8599	406-248-4330
ike Walen	Project Geologist	406-652-2405	406-248-4330
eo Heath	Project Engineer Mobile Phone	406-656-9917 406-259-8620	406-248-4330
oe Kagie	Drilling Engineer Mobile Phone	406-656-2224 406-259-8845	406-248-4330
alt Dyer	Foreman	406-768-2434	

MISCELLANEOUS

oads and location inspected by Walt Dyer before MIRT.

MAR02-0228

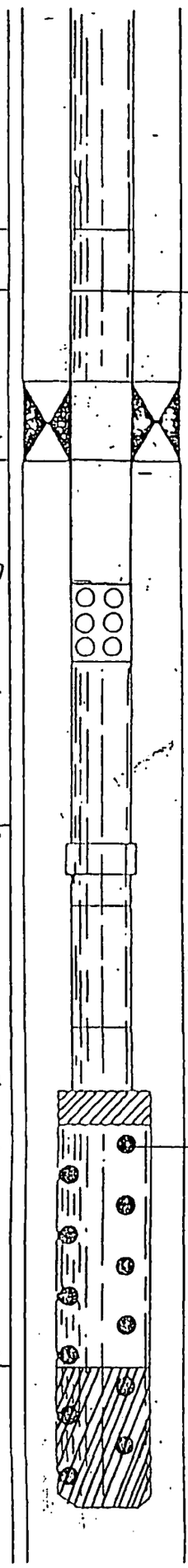
MAR-228

GEO Vann

COMPANY Texas Oil & Gas
WELL Buckles "B" #1
FIELD East Poplar
COUNTY Roseruelt STATE Montana

ermanent Datum	Elev	Elev.	KB
ng Measured From	Ft. Above Perm. Datum		DF
rilling Measured From			CL

TE	9/2/81	TYPE FLUID IN HOLE	BFSW 9.5
IN NO.		LEVEL	Full
CORDED BY:	James P. Whisenhunt	MAX. REC. TEMP. DEG F.	240
TNESSED BY:			



5,710.26		
5,711.20	.94	Baker "F" nipple w/ 1.875 profile
		2 3/8 Tubing Joint
5,739.86	28.66	
5,745.61	5.75	Baker model (R) Single Grip
		2 3/8 10'-J55 Tubing Sub
5755.68	10.07	
5,756.38	.70	Field Disc Assy w/4 1" Holes
		2 3/8 Tubing Joint
5,786.73	30.35	
5,788.36	1.63	VANNTage® Tubing Release w/1.875 profile
		2 3/8 10' N-80 Tubing Sub
5,798.46	10.10	
5804.38	5.92	6' N-80 Tubing Sub
5806	1.62	3 3/8" O.D VANNTage Firing Head
		3 3/8" 4' Steel Carrier Guns w/4 JSF
5808	2.00	
		3 3/8" O.D Steel Bull plug
5809.47	1.47	

Strapped Distance From R.A marker to Top shot

94.80

MAR02-0229

MAR-229

EWF

TEXAS OIL & GAS CORP.

Inter-Office Memorandum

Date: March 18, 1981

To: Leo Heath
Billings

From: Paul Urban

Re: Buckles "A" #2 Permit

Attached please find five copies of the Buckles "A" #2 NTL-6 permit. These permits will require Ron Becker's signature on the first page (APD form) and on the last page of the MSUOP. After all five of these permits have been signed, please forward them to the U.S. Geological Survey office in Billings. I have attached a cover letter and envelope. I have also attached a copy of the permit for your use.

If you have any questions, please advise.

PU

PU/bs
Attachments/as stated

MAR02-0753

MAR-753

EWF

TEXAS OIL & GAS CORP.
1800 LINCOLN CENTER BUILDING
DENVER, COLORADO 80264

TELEPHONE (303) 861-4246

March 18, 1981

U.S. Geological Survey
Post Office Box 2550
Billings, Montana 59103

Attention: Mr. Tom Richmond

Re: Buckles "A" #2
Section 22-T28N-R51E
Roosevelt County, Montana

Gentlemen:

Enclosed for your review are five copies of an APD package for the above-referenced well. Contained in this package are an Application for Permit to Drill, a 9331-C Addendum (subsurface plan), and a Multipoint Surface Use and Operation Plan.

We would appreciate an expeditious review of this application due to rig commitments we have made. If you have any questions or need additional information, please contact either Leo Heath in our Texas Oil & Gas Corp. Billings office (telephone 406-248-4330) or myself (303-861-4246).

Very truly yours,

TEXAS OIL & GAS CORP.

Paul Urban

Paul Urban
Environmental Scientist

PU/bs
Enclosures/as stated

MAR02-0754

MAR-754

TEXAS OIL & GAS CORP.

Inter-Office Memorandum

Date: March 18, 1981

To: Jim Sherrard

Dallas

From: Paul Urban

Re: Buckles "A" #2 Permit

Attached please find your copy of the Buckles "A" #2 NTL-6 permit.

If you have any questions, please advise.

PU

PU/bs
Attachment/as stated

MAR02-0755

MAR-755

TEXAS OIL & GAS CORP.
2705 MONTANA AVENUE · SUITE 300
406 · 248 · 4330
BILLINGS, MONTANA 59101

May 1, 1981

Oil & Gas Commission
Dept. of Natural Resources & Conservation
2535 St. John's Avenue
Billings, MT 59102

Re: Buckles "A" #2 Well
Sec. 22, T28N, R51E
Roosevelt County, Montana

Gentlemen:

We are enclosing our check no. 64794 in the amount of $75.00 which is in payment of the filing fee for the above entitled well. Also enclosed is the Notice of Intention to Drill in quadruplicate.

Thank you for your attention to this matter.

Sincerely,

TEXAS OIL & GAS CORP.

Leo A. Heath
Leo A. Heath
Project Engineer

LAH/blj

Enclosures

MAR02-0756

MAR-756

VENDOR 590511

TEXAS OIL AND GAS CORP.
FIDELITY UNION TOWER DALLAS, TEXAS 75201

No. 64794

VOUCHER NUMBER	VENDOR REFERENCE INVOICE	VENDOR REFERENCE DATE	DUE VENDOR	VOUCHER NUMBER	VENDOR REFERENCE INVOICE	VENDOR REFERENCE DATE	DUE VENDOR
040129	112010	040781	75.00				
			Drilling Permit Buckles "A" #2 Section 22-T28N-R51E Roosevelt County, Montana 6000' Test				

TXO-148

ACCOUNTS PAYABLE

TOTAL 75.00

TEXAS OIL & GAS CORP.

No. 64794

FIDELITY UNION TOWER DALLAS, TEXAS 75201
REGULAR ACCOUNT
FIRST NATIONAL BANK IN DALLAS
DALLAS, TEXAS

32-1
1110

DATE	AMOUNT
4/10/81	*****$75.00*****

PAY TO Board of Oil & Gas Conservation
State of Montana
2535 St. John's Avenue
Billings, Montana 59102

R. H. Schwellen
AUTHORIZED SIGNATURE

⑈064794⑈ ⑆111000062⑆ 07 3369 1⑈

MAR02-0757

MAR-757

ESTED 4/7/81 DATE REQUIRED ASAP

BLE TO: Board of Oil & Gas Conservation
State of Montana
ESS 2535 St. John's Avenue
Billings, Montana 59102

AMOUNT $ 75.00

Drilling Permit
Buckles "A" #2
Section 22-T28N-R51E
Roosevelt County, Montana
6000' Test

BILLING INSTRUCTIONS
(TO BE COMPLETED PRIOR TO APPROVAL)

TXO.

ODUCING ASSET
QUISITION

☐ UNDEVELOPED LEASE ACQUISITION

☐ OTHER

ORANDUM	ACCOUNT	T/C	LSE. NO.	WELL	AMOUNT

CHECK REQUEST

TXO-42

REQUESTED BY Leo A. Heath

APPROVED R. G. Becker

RETURN CHECK TO R. G. Becker - Project Manager
Texas Oil & Gas Corp.
2705 Montana Avenue, Suite 300
Billings, Montana 59101

MAR02-0758

MAR-758

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

SEP 24 1981

1. oil well ☒ gas well ☐ other

2. NAME OF OPERATOR
TXO Production Corp.

3. ADDRESS OF OPERATOR
Suite 300, 2705 Montana Avenue, Billings, Montana

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) 660' FNL, 1980' FWL
AT SURFACE: Sec. 22-T28N-R51E
AT TOP PROD. INTERVAL same
AT TOTAL DEPTH: same

5. ~~XRASX~~ Contract No.
14 20 -256 5066 FT. PECK AL.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Austin R. Buckles

7. UNIT AGREEMENT NAME
—

8. FARM OR LEASE NAME
Buckles

9. WELL NO.
"A" #2

10. FIELD OR WILDCAT NAME
East Poplar Field

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 22-T28N-R51E

12. COUNTY OR PARISH
Roosevelt

13. STATE
Montana

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
2089' Gr

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	☐	☐
FRACTURE TREAT	☐	☐
SHOOT OR ACIDIZE	☐	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☐	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☐	☐
ABANDON*	☐	☐
(other) Operator Name Change		

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. 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.)*

Effective September 1, 1981, the exploration and production activities of Texas Oil & Gas Corp. have been reorganized into a new corporate branch, TXO Production Corp. As a consequence, the operator name for this well is changed to "TXO Production Corp.", as indicated above in Item 2.

TEXAS OIL & GAS CORP.
BILLINGS DISTRICT

SEP 28 1981

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED Charles K. Curlee TITLE Environmental Adm. DATE Sept. 21, 1981
Charles K. Curlee

(This space for Federal or State office use)

APPROVED BY Charles E. Lankes TITLE ACTING DISTRICT SUPERVISOR DATE 9/25/81
CONDITIONS OF APPROVAL, IF ANY:

MAR02-0759

*See Instructions on Reverse Side

MAR-759

Form No. 2

NOTICE
THIS FORM BECOMES PERMIT WHEN STAMPED APPROVED BY AN AGENT OF THE BOARD

TEXAS OIL & GAS CORP.
BILLINGS DISTRICT
NOV 25 1981

(SUBMIT IN QUADRUPLICATE)
TO
BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

MAC 36-3.18(10)-S18020
MAC 36-3.18(10)-S18030
MAC 36-3.18(10)-S18140
MAC 36-3.18(10)-S18170
MAC 36-3.18(10)-S18200
MAC 36-3.18(10)-S18310
MAC 36-3.18(10)-S18330
MAC 36-3.18(14)-S18380

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill		Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment	
Notice of Intention to Pull or Alter Casing		Supplementary Well History	
Notice of Intention to Abandon Well		Report of Fracturing	
		Change of Operator Name	XX

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

October 14, 1981

Following is a {notice of intention to do work / report of work done} on land {owned / leased} described as follows:

LEASE Buckles "A"

MONTANA (State) Roosevelt (County) E. Poplar (Field)

Well No. 2 22 (m. sec.) T28N (Township) R51E (Range) MPM (Meridian)

The well is located 660 ft. from {N / S} line and 1980 ft. from {E / W} line of Sec. 22

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground ~~XXXXX~~ above the sea level is 2089

READ CAREFULLY **DETAILS OF PLAN OF WORK** READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing.)

DETAILS OF WORK
RESULT

Effective September1, 1981, the exploration and production activities of Texas Oil & Gas Corp. have been reorganized into a new corporate branch, TXO Production Corp. As a consequence, the operator name for this well is changed to "TXO Production Corp."

Approved subject to conditions on reverse of form

Date NOV 23 1981
ORIGINAL SIGNED BY:
By Doe Rickman, Executive Secretary
District Office Agent Title

Company TXO Production Corp.
By Leo A. Heath Leo A. Heath
Title Project Engineer
Address 2705 Montana Avenue, Suite 300
Billings, MT 59101

BOARD USE ONLY
API WELL NUMBER
2 5
STATE COUNTY WELL

NOTE:—Reports on this form to be submitted to the appropriate District for approval

WHEN USED AS PERMIT TO DRILL, PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL IF WELL NOT SPUDDED OR EXTENSION REQUESTED.

OVER

MAR-760

MAR02-0760

Locate wel .ootage measurement from legal subdivisi. ..ection) line and nearest drilling or producible well, if any.

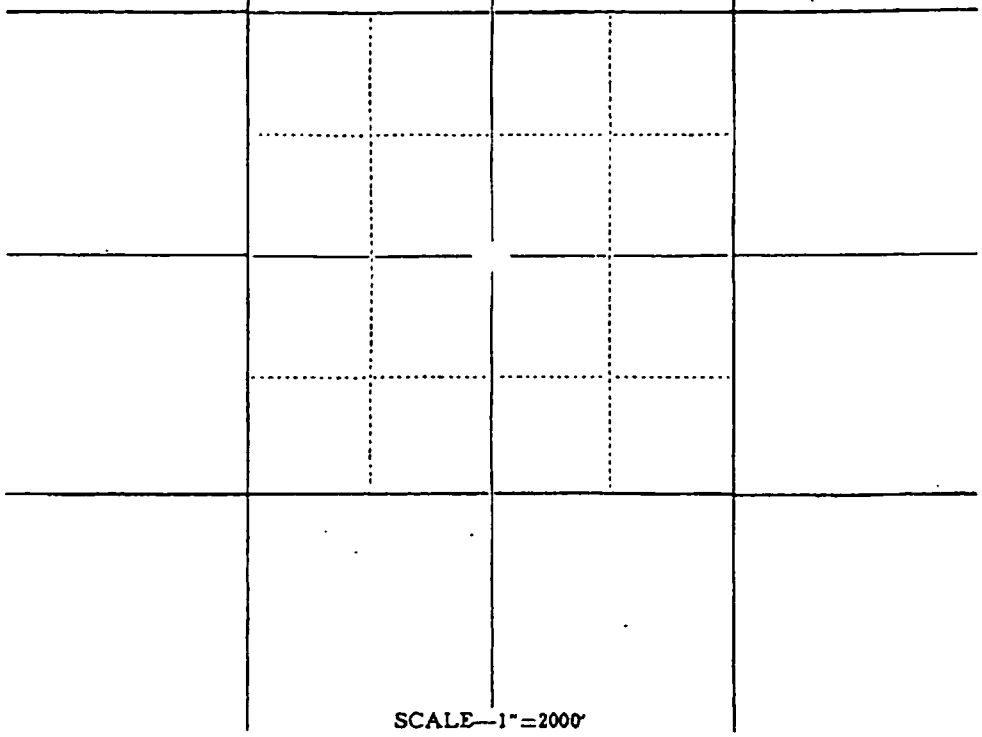
Form No. 2
File at
Billings
or Shelby

Rge.....

Form No. 2
File at
Billings
or Shelby

Locate
Well
Correctly

Twp.....



THE NOTICE OF INTENTION TO DRILL THIS WELL IS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:

1. Any person, before commencing the drilling of any oil or gas well or water source or injection well shall secure from the Board a drilling permit and shall pay to the Board the following amounts: for each well whose estimated depth is thirty-five hundred (3,500) feet or less, twenty-five dollars ($25.00); from thirty-five hundred and one (3,501) feet to seven thousand (7,000) feet, seventy-five dollars ($75.00); seven thousand and one (7,001) feet and deeper, one hundred fifty dollars ($150.00).

2. No well is to be spudded in unless the proper surety drilling bond has been posted and approved by the Board of Oil and Gas Conservation of the State of Montana.

3. Cable tool operators must construct an adequate sump to contain all mud and water bailed from the hole.

4. Surface or conductor casing must be properly cemented by an approved method and pressure tested to determine a tight bond with the surrounding formations in case an unexpected flow of oil, gas or water should be encountered, unless special permission has been granted for formation shut-off.

5. Any production casing must be cemented unless a formation shut-off or packer is approved by the Board. Sufficient cement must be used to protect the casing and all possible productive and fresh water bearing formations exposed in the process of drilling and not otherwise protected.

6. All production casing must be tested by bailing or pressure to determine if there is a tight bond with the surrounding formations or possible leaks in the casing. The results of the test must be reported on Form No. 2, said report to include the size, weight, thread and length of casing, amount of cement used, and date work is done. If test shows failure, the defect must be corrected before any drilling operations are resumed.

7. Any contemplated change in status of a well such as to plug and abandon, deepen, plug back, redrill, alter casing, etc., must be presented on Form No. 2 for approval by the Board prior to commencement of work.

8. A satisfactory drilling record must be kept for each tour, showing top and thickness of each and all formations drilled and all other information of value, one copy of which is to be kept at the rig while drilling is in progress for examination by any authorized agent of the Board.

9. All producing wells must be marked with name of the operator, number of the well and location, using reasonable precautions to preserve these markings at all times.

10. Delivery to the Board of two copies of all surveys, reports, analyses, logs, tests, samples and core descriptions, etc., as described in Rule 230 and one copy of all cementing records as furnished by the cementing company and described in Rule 234.

11. All work must be done in conformity with the regulations of the Board of Oil and Gas Conservation of the State of Montana, as contained in "General Rules and Regulations," and amendments thereto, as well as regulations prescribed in lieu thereof.

MAR-761

MAR02-0761

TXO

TXO PRODUCTION CORP.
1800 LINCOLN CENTER BUILDING
DENVER, COLORADO 80264

TELEPHONE (303) 861-4246

May 20, 1982

U.S. Minerals Management Service
P.O. Box 2550
Billings, Montana 59103 - 2550

Re: Buckles "A" #2
NE/NW Section 22-T28N-R51E
Roosevelt County, Montana

Gentlemen:

Please be advised that TXO Production Corp. has decided not to drill the above-referenced well at this time. An extension of the approved Permit to Drill for this well is not required.

If you have any questions, please contact me at this office.

Very truly yours,

TXO PRODUCTION CORP.

Charles K. Curlee

Charles K. Curlee
Environmental Administrator

CKC/JY

MAR02-0762

A SUBSIDIARY OF TEXAS OIL & GAS CORP.

MAR-762

DEPARTMENT C ATURAL RESOURCES & NSERVATION

BOARD OF OIL & GAS C ERVATION

OIL & GAS CONSERVAT. DIVISION

Texas Oil & Gas Corp
Suite 300
2705 Montana Ave
Billings, Mont 59101

Russ Gillis
Suite 1800
1660 Lincoln St
Denver, Colo 80264

10-5-1982

Please be advised that your drilling permit(s) for the well(s) listed below has expired pursuant to Board Rule No. 36.22.604(3) Permit Issuance - Expiration - Extension which states "If drilling is not commenced, no such permit to drill shall be valid after the expiration of a period of ninety (90) days from the date of the issuance thereof by the Board or its authorized agents unless application for an extension of time, in writing, is made therefor by the permittee. No more than one 90-day extension shall be granted, and any permittee who fails to commence drilling within the 90-day period of the permit or the 90-day extension, if granted, must file a new Notice of Intention to Drill and pay the fee therefor."

PERMIT NO.	WELL AND LOCATION	EXPIRED
S-10133	Buckles A #2 NENW Sec 22 28N 51E, Roosevelt Co, Mt	8-3-1981
S-10775	Tommerup 1 SWNE Sec 30 35N 58E, Sheridan Co, Mt	5-9-1982

Yours very truly,

Dee Rickman
Executive Secretary

DIVISION OFFICE
25 SOUTH EWING
P.O. BOX 217
HELENA, MONTANA 59601
(406) 449-2611

TECHNICAL AND
SOUTHERN FIELD OFFICE
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102
(406) 656-0040

NORTHERN FIELD OFFICE
218 MAIN STREET
P.O. BOX 690
SHELBY, MONTANA 59474
(406) 434-2422

"AN EQUAL OPPORTUNITY EMPLOYER"

MAR-763

MAR02-0763

CO NO	PROPERTY ID	WELL NO	OWNER ID	SALES DATE	PROD CODE	INT TYP	PAY COD	GROSS AMOUNT	SEVERANCE TAX	OTHER DEDUCTS	NET AMOUNT	O T
								AMOUNTS SUSPENDED				
01	046516	01	944219	08/85	10	4	6	5.08	.28	.30	4.50	*
01	046516	01	944219	10/85	10	4	6	5.20	.29	.39	4.52	*
01	046516	01	944219	12/85	10	4	6	5.49	.31	.47	4.71	*
01	046516	01	944219	03/86	10	4	6	2.64	.15	.00	2.49	
01	046516	01	944219	05/86	10	4	6	2.52	.14	.00	2.38	
			OWNER TOTAL					165.55	9.96	22.40	133.19	*
01	046516	01	977382	04/81	10	4	6	24.38-	1.23-	7.19-	15.96-	*
01	046516	01	977382	04/81	10	4	6	24.38	1.35	7.15	15.88	*
01	046516	01	977382	08/81	10	4	6	43.24-	2.18-	11.06	52.12-	*
01	046516	01	977382	08/81	10	4	6	43.25	2.40	11.12-	51.97	*
01	046516	01	977382	11/81	10	4	6	22.54	1.25	5.86	15.43	*
01	046516	01	977382	12/81	10	4	6	21.74	1.20	.00	20.54	
01	046516	01	977382	04/82	10	4	6	34.43	1.91	7.03	25.49	*
01	046516	01	977382	05/82	10	4	6	19.67	1.09	.00	18.58	
01	046516	01	977382	06/82	10	4	6	17.12	.95	3.48	12.69	*
01	046516	01	977382	07/82	10	4	6	19.02	1.06	3.81	14.15	*
01	046516	01	977382	08/82	10	4	6	20.08	1.11	4.02	14.95	*
01	046516	01	977382	10/82	10	4	6	32.50	1.79	4.72	25.99	*
01	046516	01	977382	10/82	10	4	6	32.50-	1.79-	.00	30.71-	
01	046516	01	977382	10/82	10	4	6	20.81	1.15	.00	19.66	
01	046516	01	977382	12/82	10	4	6	20.53	1.13	3.97	15.43	*
01	046516	01	977382	06/83	10	4	6	18.50	1.22	2.91	14.37	*
01	046516	01	977382	07/83	10	4	6	18.36	1.21	2.79	14.36	*
01	046516	01	977382	09/83	10	4	6	18.54	1.22	2.83	14.49	*
01	046516	01	977382	10/83	10	4	6	18.70	1.23	2.84	14.63	*
01	046516	01	977382	11/83	10	4	6	17.79	1.17	2.65	13.97	*
01	046516	01	977382	02/84	10	4	6	15.75	1.04	2.29	12.42	*
01	046516	01	977382	05/84	10	4	6	38.45	2.53	5.90	30.02	*
01	046516	01	977382	06/84	10	4	6	18.05	1.19	2.77	14.09	*
01	046516	01	977382	08/84	10	4	6	18.89	1.24	2.83	14.82	*
01	046516	01	977382	10/84	10	4	6	18.93	1.25	2.56	15.12	*
01	046516	01	977382	04/85	10	4	6	17.66	.99	1.25	15.42	*
01	046516	01	977382	05/85	10	4	6	17.99	1.00	1.51	15.48	*
01	046516	01	977382	06/85	10	4	6	12.63	.70	.91	11.02	*
01	046516	01	977382	07/85	10	4	6	16.53	.92	1.01	14.60	*
01	046516	01	977382	08/85	10	4	6	16.26	.91	.96	14.39	*
01	046516	01	977382	10/85	10	4	6	16.64	.93	1.26	14.45	*
01	046516	01	977382	12/85	10	4	6	17.57	.98	1.54	15.05	*
01	046516	01	977382	03/86	10	4	6	8.45	.48	.00	7.97	
01	046516	01	977382	05/86	10	4	6	8.07	.45	.00	7.62	
			OWNER TOTAL					529.71	31.85	71.60	426.26	*
	PROPERTY TOTAL							1,241.99	65.92	227.50	948.57	*
01	046529	000	900010	05/81	10	4	2	5,913.37	298.62	.00	5,614.75	
01	046529	000	900010	05/81	10	4	2	5,913.37-	189.22-	.00	5,724.15-	

C 02 ***C 02*** ***C 02***

MAR01085

MAR-764

MAR02-0764

TXO PRODUCTION CORP.
DETAIL LEGAL SUSPENSE LIST BY PROPERTY
PERIOD ENDING 09/86

MAR01086

CO NO	PROPERTY ID	WELL NO	OWNER ID	SALES DATE	PROD CODE	INT TYP	PAY COD	* * * GROSS AMOUNT	AMOUNTS SUSPENDED SEVERANCE TAX	OTHER DEDUCTS	* * * NET AMOUNT *	OTH TAX
01	046529	000	900010	05/81	10	4	2	5,913.37	189.22	.00	5,724.15	
01	046529	000	900010	05/81	10	4	2	5,902.66-	188.88-	.00	5,713.78-	
01	046529	000	900010	05/81	10	4	2	5,902.66	188.88	.00	5,713.78	
01	046529	000	900010	05/81	30	4	2	.00	.00	787.10	787.10-	*
01	046529	000	900010	05/81	30	4	2	.00	.00	787.10-	787.10	*
01	046529	000	900010	05/81	30	4	2	.00	.00	772.06	772.06-	*
01	046529	000	900010	06/81	10	4	2	1,042.65	33.36	.00	1,009.29	
01	046529	000	900010	06/81	10	4	2	2,904.57	146.68	.00	2,757.89	
01	046529	000	900010	06/81	10	4	2	1,042.65-	33.36-	.00	1,009.29-	
01	046529	000	900010	06/81	30	4	2	.00	.00	344.45	344.45-	*
01	046529	000	900010	06/81	30	4	2	.00	.00	129.18	129.18	*
01	046529	000	900010	06/81	30	4	2	.00	.00	129.18-	129.18	*
01	046529	000	900010	07/81	10	4	2	6,106.37	308.37	.00	5,798.00	
01	046529	000	900010	07/81	10	4	2	6,107.96	195.45	.00	5,912.51	
01	046529	000	900010	07/81	10	4	2	6,107.96-	195.45-	.00	5,912.51-	
01	046529	000	900010	07/81	30	4	2	.00	.00	698.08-	698.08	*
01	046529	000	900010	07/81	30	4	2	.00	.00	684.64	684.64-	*
01	046529	000	900010	07/81	30	4	2	.00	.00	698.08	698.08-	*
01	046529	000	900010	08/81	10	4	2	3,914.94	197.70	.00	3,717.24	
01	046529	000	900010	08/81	30	4	2	.00	.00	447.89	447.89-	*
01	046529	000	900010	09/81	10	4	2	2,692.82	149.45	301.18	2,242.19	*
01	046529	000	900010	09/82	10	4	2	3,276.70	103.87	239.94	2,932.89	*
01	046529	000	900010	09/82	10	4	2	3,276.69-	180.87-	.00	3,095.82-	
01	046529	000	900010	10/82	10	4	2	1,810.11	99.92	131.81	1,578.38	*
01	046529	000	900010	10/82	10	4	2	1,810.11-	99.92-	.00	1,710.19-	
			OWNER TOTAL					21,532.08	1,023.82	2,921.97	17,586.29	*
01	046529	01	900010	05/81	10	4	2	5,913.39-	298.63-	767.99	6,382.75-	*
01	046529	01	900010	05/81	10	4	2	5,913.38-	189.23-	787.10-	4,937.05-	*
01	046529	01	900010	05/81	10	4	2	5,913.38	328.19	772.05-	6,357.24	*
01	046529	01	900010	06/81	10	4	2	2,904.57-	161.20-	.00	2,743.37-	
01	046529	01	900010	06/81	10	4	2	1,861.92	103.34	.00	1,758.58	
01	046529	01	900010	06/81	10	4	2	2,904.57-	146.68-	342.64	3,100.53-	*
01	046529	01	900010	06/81	10	4	2	2,904.57-	146.68-	344.45-	2,413.44-	*
01	046529	01	900010	06/81	10	4	2	2,904.57	161.20	344.45-	3,087.82	*
01	046529	01	900010	07/81	10	4	2	6,106.37-	308.37-	684.64-	5,113.36-	*
01	046529	01	900010	07/81	10	4	2	6,107.97-	195.46-	698.44-	5,214.07-	*
01	046529	01	900010	07/81	10	4	2	6,106.37	338.90	681.04	5,086.43	*
01	046529	01	900010	08/81	10	4	2	3,914.95-	197.71-	437.24	4,154.48-	*
01	046529	01	900010	08/81	10	4	2	3,914.95-	197.71-	439.56-	3,277.68-	*
01	046529	01	900010	08/81	10	4	2	3,914.95	217.28	439.56-	4,137.23	*
01	046529	01	900010	09/81	10	4	2	2,692.83	135.99	.00	2,556.84	
01	046529	01	900010	09/81	10	4	2	2,692.82-	149.45-	301.18-	2,242.19-	*
01	046529	01	900010	09/81	10	4	2	2,692.82	149.45	301.18	2,242.19	*
01	046529	01	900010	10/81	10	4	2	1,873.82	94.63	203.92	1,575.27	*
01	046529	01	900010	10/81	10	4	2	3,441.02-	190.98-	.00	3,250.04-	
01	046529	01	900010	10/81	10	4	2	2,823.25	156.69	.00	2,666.56	

MAR-765

MAR02-0765

TXO PRODUCTION CORP.
DETAIL LEGAL SUSPENSE LIST BY PROPERTY
PERIOD ENDING 09/86

MAR01087

CO NO	PROPERTY ID	WELL NO	OWNER ID	SALES DATE	PROD CODE	INT TYP	PAY COD *	* * * GROSS AMOUNT	AMOUNTS SUSPENDED SEVERANCE TAX	OTHER DEDUCTS	NET AMOUNT * * *	OTH TAX
01	046529	01	900010	10/81	10	4	2	3,441.02-	190.98-	480.76-	~~2,769.28-~~	*
01	046529	01	900010	10/81	10	4	2	1,873.82-	104.00-	202.84-	~~1,566.98-~~	*
01	046529	01	900010	10/81	10	4	2	3,441.02	190.98	480.76	~~2,769.28~~	*
01	046529	01	900010	10/81	10	4	2	2,823.25-	156.69-	.00	~~2,666.56-~~	
01	046529	01	900010	10/81	10	4	2	3,441.02	190.98	.00	~~3,250.04~~	
01	046529	01	900010	12/82	10	4	2	790.71	43.65	57.85	639.21	*
01	046529	01	900010	12/82	10	4	2	790.71-	43.65-	.00	747.06-	
			OWNER TOTAL					17,190.70-	566.14-	2,222.41-	14,402.15-	*
01	046529	01Z	900010	09/81	10	4	2	2,692.83-	135.99-	.00	2,556.84-	
01	046529	01Z	900010	04/83	10	4	2	703.33	39.25	.00	664.08	
01	046529	01Z	900010	04/83	10	4	2	703.33-	46.28-	.00	657.05-	
			OWNER TOTAL					2,692.83-	143.02-	.00	2,549.81-	
	PROPERTY TOTAL							1,648.55	314.66	699.56	634.33	*
01	048221	01	949759	06/86	20	4	5	2.65	.13	.00	2.52	
01	048221	01	949759	07/86	20	4	5	2.75	.14	.00	2.61	
01	048221	01	949759	08/86	20	4	5	2.54	.13	.00	2.41	
01	048221	01	949759	09/86	20	4	5	2.16	.11	.00	2.05	
			OWNER TOTAL					10.10	.51	.00	9.59	
01	048221	05Z	949759	06/86	10	4	5	4.74	.24	.00	4.50	
01	048221	05Z	949759	07/86	10	4	5	3.89	.19	.00	3.70	
01	048221	05Z	949759	08/86	10	4	5	3.72	.19	.00	3.53	
01	048221	05Z	949759	09/86	10	4	5	4.78	.24	.00	4.54	
			OWNER TOTAL					17.13	.86	.00	16.27	
	PROPERTY TOTAL							27.23	1.37	.00	25.86	
01	048223	01	994598	06/86	20	4	5	12.73	.64	.00	12.09	
01	048223	01	994598	07/86	20	4	5	11.95	.60	.00	11.35	
01	048223	01	994598	08/86	20	4	5	10.83	.54	.00	10.29	
01	048223	01	994598	09/86	20	4	5	6.84	.34	.00	6.50	
			OWNER TOTAL					42.35	2.12	.00	40.23	
	PROPERTY TOTAL							42.35	2.12	.00	40.23	
01	050022	000	941079	11/85	20	4	6	5.58	.00	.00	5.58	
01	050022	000	941079	12/85	20	4	6	27.56	.02	.00	27.54	
01	050022	000	941079	01/86	20	4	6	29.01	.02	.00	28.99	
01	050022	000	941079	02/86	20	4	6	15.91	.01	.00	15.90	
			OWNER TOTAL					78.06	.05	.00	78.01	

Rev. 7/85

TXO PRODUCTION CORP.

PROPERTY ABANDONMENT ADVICE

FROM: TO: LEASE ADMIN. Joyce Young (19) FROM: DALLAS PROPERTY ACCTG. (20)

Please complete Sec. (B) & forward to ---

PROPERTY ACCOUNTING (20)

SEC. (A)- PROPERTY ACCTG. ADVICE 12/10/85

Unless otherwise noted under remarks the below listed well at the time of its abandonment was, according to the best information available to me, the last or only existing unabandoned well carried under the below designated property number. If you have any information to the contrary that indicates the possibility of other unabandoned well bores under this property number, please advise the undersigned before proceeding with the processing of this advice.

TXO DISTRICT	PROPERTY #	WELL NAME & NO.	P & A DATE
Denver	046529	Buckles A #1	5/25/84

REMARKS: Oil Well SEC 22-28N-51E
ROOSEVELT COUNTY
MONTANA

Approved by: Jim Crowson

SEC. (B)- LEASE ADMIN. DEPT. ADVICE 4/10/86

Leases relative to the above abandonment, their current status and recommended disposition of costs, are as follows:

LEASE NO.	ACTIVE OR EXPIRED	GROSS BONUS	TXO NET BONUS
46529-000	EXPIRED (12-15-85)	$96,000.00	100%

Completed by: [signature]

If leases are indicated as expired, then costs are to be written off. If leases are active, then Gross Bonus and TXO Net Bonus is shown.

~~PROPERTY ACCTG. NOTE: PLEASE FURNISH BAK DEPT. WITH COPY OF COMPLETED ADVICE.~~

cc: (19) Dallas-Division Orders (NO.) SC.)

(25) Dallas- Engineering

(20) Dallas-Gen. Ledger Control

Dallas- Drlg. Oper. file

MAR767

MAR02-0767

TXO

TEXAS OIL & GAS CORP.

East Poplar

I $ 96,000 Acquis Cost = 6.6 : 1 ROI.

II $ 338,000 Acquis Cost = 4.1 : 1 ROI

187	187
124	400
116	
400	
587	
1414	

From the desk of

Mike Walen

MAR02-0768

MAR-768

TXO

TEXAS OIL & GAS CORP.

40 ac x $500/ac = $20,000 + $80,000
80 ac x $750/ac = $60,000

$866 = 6.0 : 1

40 ac x $750/ac $30,000
80 ac x $900/ac $72,000
102,000

$888 = 5.8 : 1

From the desk of *Mike Wallen*

MAR02-0769

MAR-769

Project Name: E. POPLAR PROSPECT
Prepared By: LAH
Date: 9-25-80

TXO INVESTMENT APPRAISAL PROCEDURE
Discounted Cash Flow (DCF) Worksheet
(Volume In MBO ; Amounts in M$)

Initial rate of prod.: 100 BOPD
Remarks: Similar to offset Mesa - Biere #1-22

Column 1. PERIOD	2 GROSS VOLUME UNIT / YEAR	3 NET VOLUME UNIT / YEAR	4 REVENUE PRICE /UNIT	5 REVENUE	6 CASH OPERATING EXPENSES VARIABLE TAX	7 VARIABLE O&A EXPENSE	8 VARIABLE OTHER	9 FIXED	10 TOTAL	11 CASH OPERATING REVENUE	11a AFTER NET PROC TAX 11 %	12 CAPITAL OUTLAYS	13 NET CASH FLOW	14 PRESENT VALUE AT ___	15 PRESENT VALUE AT ___
1981 0												806	(806)		
1	34	28.3	39.00	1104	31	1.7		12	45	1059	116	7	936		
2	28	23.3		909	25	1.4			38	871	96		775		
3	22	18.3		714	20	1.1			33	681	75		606		
4	19	15.8		616	17	0.9			30	586	64		522		
5	15	12.5		488	14	0.8			27	461	51		410		
6	13	10.8		421	12	0.6			25	396	44		352		
7	10	8.3		324	9	0.5			22	302	33		269		
8	9	7.5		293	8	0.5			21	272	30		242		
9	7	5.8		226	6	0.3			19	207	23		184		
10	6	5.0		195	5	0.3			17	178	20		158		
1994 11-14	7	5.8		226	6	0.3		48	54	172	19	(7) (20)	180		
											571				
TOTAL	170	141.4		5516						5185		786 (1270)	3828	(I)	(II)

MEMO:
TXO NET INTEREST = WI = 100% .83333
TAX RATE = 2.8%
NET PROCEEDS TAX = 11%
O&A EXPENSE RATE = $.06/net Bo
OTHER VARIABLE EXPENSE (DEFINE):

(I)

DCF RATE OF RETURN = 100+ PER CENT
ROI = 6.6
PAY BACK = 10 MONTHS

(II) ROI = 4.1

FIXED IS COMPOSED OF:

	ITEM	$ AMOUNT
A.	OPEX	$1000/mo.
B.		
C.		
TOTAL FIXED EXPENSES		$12,000/yr.

LIST INITIAL CAPITAL OUTLAYS:

	AMOUNT	
DRILLING	187	187
COMPLETION	124	124
PRODUCTION EQUIPMENT	116	116
ACQUISITION	96	338
RISK ($\frac{1}{SPF}$ X (DRLG+ACQ))	283	525
SUBTOTAL INITIAL CAPITAL OUTLAYS	806	1290

SPF: 50 %

LIST ADDITIONAL CAPITAL OUTLAYS: WORKOVER.

LESS SALVAGE VALUE 20 (20)
TOTAL CAPITAL OUTLAYS: 786 1270

WORKING CAPITAL (INVESTED IN YR. 1 & RECOUPED IN LAST YEAR OF THE PROJECT)
AVERAGE ANNUAL REVENUE X RATE = WORKING CAPITAL OUTLAY.
394 x .018 = 7

MAR-770

MAR02-0770

Data Sheet: Drilling Evaluation
Cal' 'ation of ROI, Payback, and IX

Field EAST Poplar Well

Productive Zones Charles

Gross Res MBbl 79.8 Int* .833 Net MBbl 66.5 Price $ 40 Net Value $ 2659 (1)

Gross Res MMCF Int* Net MMCF Price $ Net Value $ (2)

Operating Expense is 10 % of revenue (1) + (2) x 10 % ($) (3)

Subtotal ST 92 $ 2417

Net Proceeds Tax 2.8 % $ 2217 (3a)

Total Net Value (1) + (2) - (3) - (3a) $ 2157 (4)

Success Probability Factor (SPF) 60 %

Investment Over Life of Well -- ($000)

a. Drilling $ 187 (6a)
b. Completion 124 (6b)
c. Lease Equipment 116 (6c)
d. Acquisition 100 (6d)
e. Connection Cost (if borne by operator) — (6e)

Total AFE Investment (6a) + (6b) + (6c) + (6d) + (6e) $ 527 (6f)

Other Investment See $ — (6g)

Total Investment (6f) + (6g) $ 527 (6h)

[Drilling (6a) + Acquisition (6d)] x ($\frac{1}{SPF}$ - 1) 192 (6i)

Total Expected Investment (6h) + (6i) $ 719 (6j)

ROI = $\frac{\text{Total Net Value (4)}}{\text{Total Expected Investment (6j)}}$ = $\frac{\$\ 2157}{\$\ 719}$ = 3.0 (7)

Initial Monthly Production --

Gross Oil MBbl/mo. Int* Net MBBl Price $ Net Value $ /mo. (8)

Gross Gas MMCF/mo. Int* Net MMCF Price $ Net Value $ /mo. (9)

Operating Expense is % of revenue [(8) + (9)] x % ($ (10)

Subtotal $

Net Proceeds Tax % $ (10a)

Initial Monthly Net Value (8) + (9) - (10) - (10a) $

Payback = $\frac{\text{Total Expected Investment (6j)}}{\text{Initial Monthly Net Value (11)}}$ = $\frac{\$}{\$\ \ /mo.}$ = mo. (12)

Production Decline Rate %

Applicable DCF Chart Number

DCF Rate of Return (before federal income tax) %

TXO Net Interest

Geologist/Engineer

Prepared By Date

TXO-218

MAR-771

MAR02-0771

Buckles A# + SWD
Total Cost Histor, since Sep 82

Day	Rev. or cost item.		Cost $	Revenue			
	Company Rev till Feb 83 From Sep 82			25434.00			25434
	Sev. Tax		1019				24415
	Adv. Tax		2231				22184
	Buckles SWD well cost Sep-Feb		3420				19953
	Power + Fuel (Sep-Feb)		1959				16533
	Workover Labor		9318				14574
	Pumper (Sep.-Feb)		2400				5256
	Repairs + Supplies		504				2856
	SWD-Buckles A-1		3744				2352
	Rent		52				<1392>
	Auto + Travel		1731				<1444>
	After Feb Rev. + Cost						<1959>
APR.	Contract Labor (TL)		495				<2454>
"	Supervision (TC)		135				<2589>
"	(TC)		46				<2635>
"	Ins		3				<2638>
APR	351 BF of Oil 292 → TXO's	* $29/BBL		8468			5830
	Sev Tax → 5.5%		466				5364
Mar	Pumper		400				4964
May	Pumper		400				4564
"	Elect		233				4331
"	Ins		3				4328
"	Supervision (TC)		22				4306
"	510' 3' Fiberglass Line		1551				2755
Jun.	Pumper		400				2355
	New Electric Motor		986				1369
	Installation		400				969
Jul.	Pumper		400				569

MAR-772

MAR02-0772

UNIT AGREEMENT
FOR THE DEVELOPMENT AND OPERATION
OF THE EAST POPLAR UNIT AREA
COUNTY OF ROOSEVELT
STATE OF MONTANA

I—Sec. No.....

THIS AGREEMENT entered into as of the 2nd day of April, 1951, by and between the parties subscribing, ratifying, or consenting hereto, and herein referred to as the "parties hereto",

WITNESSETH

WHEREAS, the parties hereto are the owners of working, royalty, or other oil or gas interests in the unit area subject to this agreement; and

WHEREAS, The Act of February 25, 1920, 41 Stat. 437, as amended by the Act of August 8, 1946, 60 Stat. 950, 30 U.S.C. Secs. 181 et seq., authorizes Federal lessees and their representatives to unite with each other, or jointly or separately with others, in collectively adopting and operating under a cooperative or unit plan of development or operation of any oil or gas pool, field, or like area, or any part thereof, for the purpose of more properly conserving the natural resources thereof whenever determined and certified by the Secretary of the Interior to be necessary or advisable in the public interest; and

WHEREAS, the Act of August 7, 1947, 61 Stat. 913, 30 U.S.C., Secs. 351 et seq. has extended the application of the Act of February 25, 1920, as amended, to include certain lands acquired by the United States; and

WHEREAS, the East Poplar Unit Area consists in part of lands which were acquired by the United States; and

WHEREAS, the Tribal Land Mineral Leasing Act of May 11, 1938, 52 Stat. 347, 25 U.S.C. Sec. 396a et seq. provides that in the discretion of the Secretary of the Interior, any lease for oil or gas issued under the provisions of that Act shall be made subject to the terms of any reasonable co-operative unit or other plan approved or prescribed by the Secretary prior or subsequent to the issuance of any such lease which involves the development or production of oil or gas from land covered by such lease; and

WHEREAS, the allotted land mineral leasing Act of March 2, 1909, 35 Stat. 783, 25 U.S.C. Sec. 396, authorizes the leasing of restricted allotted Indian lands subject to rules and regulations prescribed by the Secretary of the Interior; and

WHEREAS, Section 9 of the oil and gas lease issued to cover Tribal Indian lands of the Assiniboine-Sioux Indian Tribes of the Fort Peck Indian Reservation in Montana lying within the unit area hereinafter described, and Section 11 of the oil and gas leases issued to cover restricted Allotted Indian lands of the Assiniboine-Sioux Indian Tribes within the unit area hereinafter described obligate the parties to such leases to subscribe to and abide by any agreement for the co-operative or unit development of the field or area affecting the leased lands, or any pool thereof, if and when collectively adopted by a majority operating interest therein and approved by the Secretary of the Interior, during the period of supervision; and

WHEREAS, Section 2(b) of oil and gas leases issued to cover acquired lands of the United States lying within the unit area hereinafter described obligate the parties to such leases to subscribe to and to operate under such reasonable cooperative or unit plan for the development and operation of the area, field or pool or part thereof embracing the lands subject to said leases as the Secretary of the Interior may determine to be practicable and necessary or advisable; and

WHEREAS, the parties hereto hold sufficient interests in the East Poplar Unit Area covering the land hereinafter described to give reasonably effective control of operations therein; and

WHEREAS, it is the purpose of the parties hereto to conserve natural resources, prevent waste, and secure other benefits obtainable through development and operation of the area subject to this agreement under the terms, conditions, and limitations herein set forth;

NOW, THEREFORE, in consideration of the premises and the promises herein contained, the parties hereto commit to this agreement their respective interests in the below defined unit area, and agree severally among themselves as follows:

ENABLING ACT AND REGULATIONS

1. The Acts of March 3, 1909, February 25, 1920, May 11, 1938, and August 7, 1947, supra, or any existing amendments thereof, and all valid pertinent regulations, including operating and unit plan regulations, heretofore issued thereunder or valid pertinent and reasonable regulations hereafter issued thereunder are accepted and made a part of this agreement as to Indian and Federal lands, provided such regulations are not inconsistent with the terms of this agreement; and, as to non-Indian and non-Federal lands, the oil and gas operating regulations in effect as of the effective date hereof governing drilling and producing operations, not inconsistent with the terms hereof or the laws of the State of Montana, are hereby accepted and made a part of this agreement.

UNIT AREA

2. The following described land in Roosevelt County, Montana, is hereby designated and recognized as constituting the unit area:

Principal Meridian, Montana
Township 28 North, Range 51 East

Secs. 1, 2, 3 and 4, all
Sec. 5, Lots 1, 5, 6, S½NE¼, SE¼
Sec. 8, E½
Secs. 9 to 16, incl., all
Sec. 17, E½E½, NW¼NE¼
Sec. 21, E½, NW¼, E½SW¼
Secs. 22, 23, 24, 25, 26 and 27, all
Sec. 28, E½, E½NW¼
Sec. 33, NE¼, NE¼SE¼
Sec. 34, all
Sec. 35, N½, SW¼, N½SE¼
Sec. 36, N½

Township 28 North, Range 52 East

Sec. 5, Lots 3 and 4, S½NW¼, SW¼
Secs. 6 and 7, all
Sec. 8, W½
Sec. 17, W½
Secs. 18 and 19, all
Sec. 20, W½
Sec. 29, NW¼, N½SW¼, SW¼SW¼
Sec. 30, all
Sec. 31, Lots 1 and 2, N½NE¼, SW¼NE¼, E½NW¼

MAR02-0773

MAR-773

Township 29 North, Range 50 East

Sec. 11, SE¼SE¼
Sec. 12, S½
Sec. 13, all
Sec. 14, E½NE¼, SW¼NE¼, SE¼
Sec. 23, E½
Secs. 24 and 25, all
Sec. 26, NE¼, E½SE¼
Sec. 36, E½, E½W½, W½NW¼

Township 29 North, Range 51 East

Sec. 7, Lots 3, 4, E½SW¼, SE¼
Sec. 8, S½SW¼
Sec. 16, SW¼NW¼, SW¼, SW¼SE¼
Secs. 17, 18, 19, 20 and 21, all
Sec. 22, NW¼NW¼, S½NW¼, SW¼, NW¼SE¼, S½SE¼
Sec. 26, NW¼NW¼, S½NW¼, SW¼, NW¼SE¼, S½SE¼
Secs. 27 to 35, incl., all
Sec. 36, W½SW¼

Total Unit Area—34,142.96 acres, more or less.

Exhibit A attached hereto is a map showing the unit area and the boundaries and identity of tracts and leases in said area to the extent known to the Unit Operator. Exhibit B attached hereto is a schedule showing to the extent known to the Unit Operator the acreage, percentage and kind of ownership of oil and gas interests in all land in the unit area. However, nothing herein or in said schedule or map shall be construed as a representation by any party hereto as to the ownership of any interest other than such interest or interests as are shown in said map or schedule as owned by such party. Exhibits A and B shall be revised by the Unit Operator whenever changes in the unit area render such revision necessary, or when requested by the Oil and Gas Supervisor, United States Geological Survey, hereinafter referred to as Supervisor, and not less than seven (7) copies of the revised exhibits shall be filed with the Supervisor.

The above described unit area shall when practicable be expanded to include therein any additional tract or tracts regarded as reasonably necessary or advisable for the purposes of this agreement, or shall be contracted to exclude lands not within any participating area whenever such expansion or contraction is necessary or advisable to conform with the purposes of this agreement. Such expansion or contraction shall be effected in the following manner:

(a) Unit Operator, on its own motion or on demand of the Director of the Geological Survey, hereinafter referred to as Director, shall prepare a notice of proposed expansion or contraction describing the contemplated changes in the boundaries of the unit area, the reasons therefor, and the proposed effective date thereof.

(b) Said notice shall be delivered to the Supervisor, the Superintendent of the Fort Peck Agency of the Fort Peck Indian Reservation, Montana, and to the Chairman of the Executive Board of the Assiniboine-Sioux Indian Tribes of the Fort Peck Indian Reservation, Montana, and copies thereof shall be mailed to the last known address of each working interest owner, lessee and lessor whose interests are affected, advising that thirty (30) days will be allowed for submission to the Unit Operator of any objections.

(c) Upon expiration of the 30-day period provided in the preceding item (b) hereof, Unit Operator shall file with the Supervisor evidence of mailing of the notice of expansion or contraction and a copy of any objections thereto which have been filed with the Unit Operator.

(d) After due consideration of all pertinent information, the expansion or contraction shall, upon approval by the Director become effective as of the date prescribed in the notice thereof.

All lands committed to this agreement shall constitute land referred to herein as "unitized land" or "land subject to this agreement."

UNITIZED SUBSTANCES

3. All oil, gas, natural gasoline and associated fluid hydrocarbons in any and all formations of the utilized lands are unitized under the terms of this agreement and herein are called "unitized substances."

UNIT OPERATOR

4. C. H. Murphy, Jr. is hereby designated as Unit Operator and by signature hereto commits to this agreement all interests in unitized substances vested in it as set forth in Exhibit B, and agrees and consents to accept the duties and obligations of Unit Operator for the discovery, development and production of unitized substances as herein provided. Whenever reference is made herein to the Unit Operator, such reference means the Unit Operator acting in that capacity and not as an owner of interests in unitized substances, and the term "working interest owner" when used herein shall include or refer to Unit Operator as the owner of a working interest when such interest is owned by it.

RESIGNATION OR REMOVAL OF UNIT OPERATOR

5. Unit Operator shall have the right to resign at any time prior to the establishment of a participating area or areas hereunder, but such resignation shall not become effective so as to release it from its duties and obligations and terminate its rights as such for a period of six (6) months after notice of intention to resign has been served by it on all working interests owners subject hereto, the Chairman of the Executive Board of the Assiniboine-Sioux Indian Tribes of the Fort Peck Indian Reservation, Montana, the Superintendent of the Fort Peck Agency of the Fort Peck Indian Reservation, Montana, and the Director, and until all wells then drilled hereunder are placed in a satisfactory condition for suspension or abandonment, whichever is required by the Supervisor, unless a new Unit Operator shall have been selected and approved and shall have taken over and assumed the duties and obligations of Unit Operator prior to expiration of said period.

Unit Operator shall have the right to resign after a participating area or areas have been established provided a successor unit operator has been selected and approved and has agreed to accept the duties and responsibilities of Unit Operator effective upon the termination of such duties and responsibilities of the retiring Unit Operator. The resignation of Unit Operator shall not release Unit Operator from any liability for any default by it hereunder occurring prior to the effective date of its resignation.

The Unit Operator may, upon default or failure in the performance of its duties or obligations hereunder, be subject to removal by the same percentage vote of the owners of working interests determined in like manner as herein provided for the selection of a new unit operator. Such removal shall be effective upon notice thereof to the Director. If removal because of default or failure occurs during the existence of a participating area established hereunder, the working interest owners jointly shall be responsible for performance of the duties of the unit operator until a successor unit operator is selected and approved as herein provided and shall, not later than the effective date of such removal, appoint a common agent to represent them in any action to be taken hereunder.

The resignation or removal of Unit Operator under this agreement shall not terminate his right, title, or interest as the owner of a working interest or other interest in unitized substances, but upon the resignation or removal of Unit Operator becoming effective, such Unit Operator shall deliver possession of all equipment, materials and appurtenances used in conducting the unit operations and owned by the working interest owners to the new duly qualified successor Unit Operator or to the owners thereof if no such new unit operator is elected, to be used for the purpose of conducting unit operations hereunder. Nothing herein shall be construed as authorizing removal of any material, equipment and appurtenances needed for the preservation of any wells.

MAR-774

MAR02-0774

SUCCESSOR UNIT OPERATOR

6. Whenever the Unit Operator shall resign as Unit Operator or shall be removed as hereabove provided, the owners of the working interests in the participating area or areas according to their respective acreage interests in such participating area or areas, or, until a participating area shall have been established, the owners of the working interests according to their respective acreage interests in all unitized land, shall, by majority vote select a successor unit operator; provided, that, if a majority but less than 75 percent of the working interests qualified to vote are owned by one party to this agreement, a concuring vote of sufficient additional parties, so as to constitute in the aggregate not less than 75 percent of the total working interests, shall be required to select a new operator. Such selection shall not become effective until

(a) a unit operator so selected shall accept in writing the duties and responsibilities of Unit Operator, and

(b) the selection shall have been approved by the Director.

If no successor Unit Operator is selected and qualified as herein provided, the Director at his election may declare this unit agreement terminated.

ACCOUNTING PROVISIONS AND UNIT OPERATING AGREEMENT

7. If the Unit Operator is not the sole owner of working interests, costs and expenses incurred in conducting unit operations hereunder shall be paid in the first instance by Unit Operator, and such costs and expenses so paid by Unit Operator shall be apportioned among and borne by the owners of working interests and the Unit Operator reimbursed, all in accordance with the agreement or agreements entered into by and between the Unit Operator and the owners of working interests, whether one or more, separately or collectively. Any agreement or agreements entered into between the working interest owners and the Unit Operator as provided in this section, whether one or more, are herein referred to as the "unit operating agreement." Such unit operating agreement shall also provide the manner in which the working interest owners shall be entitled to receive their respective proportionate and allocated shares of the benefits accruing hereto in conformity with their underlying operating agreements, leases, or other independent contracts and as between the working interest owners and Unit Operator may provide for such limitations upon the power of the Unit Operator respecting the liability of the working interest owners for cost of operations hereunder as may be agreed upon by Unit Operator and the working interest owners; however, no such unit operating agreement shall be deemed either to modify any of the terms and conditions of this unit agreement or to relieve the Unit Operator of any right or obligation established under this unit agreement, and in case of any inconsistency or conflict between the unit agreement and the unit operating agreement this unit agreement shall prevail. Three true copies of any unit operating agreement executed pursuant to this section shall be filed with the Supervisor.

RIGHTS AND OBLIGATIONS OF UNIT OPERATOR

8. Except as otherwise specifically provided herein, the exclusive right, privilege and duty of exercising any and all rights of the parties hereto which are necessary or convenient for prospecting for, producing, storing, allocating and distributing the unitized substances are hereby delegated to and shall be exercised by the Unit Operator as herein provided. Acceptable evidence of title to said rights shall be deposited with said Unit Operator and, together with this agreement, shall constitute and define the rights, privileges and obligations of Unit Operator. Nothing herein, however, shall be construed to transfer title to any land or to any lease or operating agreement, it being understood that under this agreement the Unit Operator, in its capacity as Unit Operator, shall exercise the rights of possession and use vested in the parties hereto only for the purposes herein specified.

All parties hereby agree that each and every one of the owners of the working interests in lands unitized under this agreement shall

(a) have the right to take in kind that proportionate share of the unitized substances which is allocated or allocable to its working interest in accordance with the provisions of this agreement, and

(b) have the right to personally sell such proportionate share of the unitized substances which is allocated or allocable to his working interest.

DRILLING TO DISCOVERY

9. Withing six (6) months after the effective date hereof, the Unit Operator shall commence the drilling of an adequate test well at a location on restricted Tribal or Allotted Indian land approved by the Supervisor and continue such drilling diligently until the Dakota-Lakota formation has been tested, unless

(a) at a lesser depth unitized substances shall be discovered which can be produced in paying quantities (to-wit: quantities sufficient to repay the cost of drilling and producing operations, with a reasonable profit), or

(b) the Unit Operator shall at any time establish to the satisfaction of the Supervisor that further drilling of said well would be unwarranted or impracticable, provided, however, that the Unit Operator shall not in any event be required to drill said well to a depth in excess of 4,500 feet, or

(c) on such effective date a well is being drilled conformably with the terms hereof.

Until the discovery of a deposit of unitized substances capable of being produced in paying quantities, the Unit Operator shall continue drilling diligently one well at a time, allowing not more than six (6) months between the completion of one well and the commencement of the drilling of the next well, until a well capable of producing unitized substances in paying quantities is completed to the satisfaction of said Supervisor, or until it is reasonably proved that the unitized land is incapable of producing unitized substances in paying quantities in the formations drilled hereunder. Nothing in this Section shall be deemed to limit the right of the Unit Operator to resign as provided in Section 5 hereof, or as requiring Unit Operator to commence or continue any drilling during the period pending such resignation becoming effective in order to comply with the requirements of this section. The Director may modify the drilling requirements of this section by granting reasonable extensions of time when, in his opinion, such action is warranted. Upon failure to comply with the drilling provisions of this section, the Director may, after reasonable notice to the Unit Operator, and each working interest owner lessee, and lessor at their last known addresses, declare this unit agreement terminated.

PLAN OF FURTHER DEVELOPMENT AND OPERATION

10. Within six (6) months after completion of a well capable of producing unitized substances in paying quantities, the Unit Operator shall submit for the approval of the Supervisor an acceptable plan of development and operation for the unitized land which, when approved by the Supervisor, shall constitute the further drilling and operating obligations of the Unit Operator under this agreement for the period specified therein. Thereafter, from time to time before the expiration of any existing plan, the Unit Operator shall submit for the approval of the Supervisor a plan for an additional specified period for the development and operation of the unitized land. Any plan submitted pursuant to this section shall provide for the exploration of the unitized area and for the determination of the area thereof capable of producing unitized substances in paying quantities in each and every productive formation and shall be as complete and adequate as the Supervisor may determine to be necessary for the timely development and proper conservation of the oil and gas resources of the unitized area and shall

(a) specify the number and locations of any wells to be drilled and the proposed order and time for such drilling; and

(b) to the extent practicable specify the operating practices regarded as necessary and advisable for proper conservation of natural resources.

Separate plans may be submitted for separate productive zones, subject to the approval of the Supervisor. Said plan or plans shall be modified or supplemented when necessary to meet changed conditions or to protect the interest of all parties to this agreement. Reasonable diligence shall be exercised in complying with the obligations of the approved plan of development. The Supervisor is authorized to grant a reasonable extension of the 6-month period herein prescribed for submission of an initial plan of development where such action is justified because of unusual conditions or circumstances. After completion hereunder of a well capable of producing unitized substances in paying quantities no further wells, except such as may be necessary to afford protection against operations not under this agreement or such as may be specifically approved by the Supervisor, shall be drilled except in accordance

MAR-775

MAR02-0775

with a plan of development approved as herein provided. In any event Unit Operator shall not be required by any provisions of the plan of development or otherwise to drill any well, other than as provided in Section 8 above, that does not afford a reasonable prospect of encountering a unitized substance in paying quantities.

PARTICIPATING AFTER DISCOVERY

11. Upon completion of a well capable of producing unitized substances in paying quantities or as soon thereafter as required by the Supervisor, the Unit Operator shall submit for approval by the Director a schedule, based on subdivisions of the public land survey or aliquot parts thereof, of all unitized land then regarded as reasonably proved to be productive of unitized substances in paying quantities; all land in said schedule on approval of the Director to constitute a participating area, effective as of the date of first production. Said schedule also shall set forth the percentage of unitized substances to be allocated as herein provided to each unitized tract in the participating area so established, and shall govern the allocation of production from and after the date the participating area becomes effective. A separate participating area shall be established in like manner for each separate pool or deposit of unitized substances or for any group thereof produced as a single pool or zone, and any two or more participating areas so established may be combined into one with the consent of the owners of all working interests in the lands within the participating areas so to be combined, on approval of the Director. The participating area or areas so established shall be revised from time to time, subject to like approval, whenever such action appears proper as a result of further drilling operations or otherwise, to include additional land then regarded as reasonably proved to be productive in paying quantities, or to exclude land then regarded as reasonably proved not to be productive, and the percentage of allocation shall also be revised accordingly. The effective date of any revision shall be the first of the month in which is obtained the knowledge or information on which such revision is predicated, unless a more appropriate effective date is specified in the schedule. Subject to Section 27 hereof, no land in a participating area established hereunder shall be eliminated therefrom on account of depletion of the unitized substances.

It is the intent of this section that a participating area shall represent the area known or reasonably estimated to be productive in paying quantities; but, subject to Section 27 hereof, regardless of any revision of the participating area, nothing herein contained shall be construed as requiring any retroactive adjustment for production obtained prior to the effective date of revision of the participating area.

In the absence of agreement at any time between the Unit Operator and Director as to the proper definition or redefinition of a participating area, or until a participating area has, or areas have, been established as provided herein, the portion of all payments affected thereby may be impounded in a manner mutually acceptable to the owners of working interests, except royalties due the United States or the Assiniboine-Sioux Indian Tribes of the Fort Peck Indian Reservation, Montana, and to the owners of restricted Allotted Assiniboine-Sioux Indian lands, which shall be determined by the Supervisor and the amount thereof deposited as directed by the Supervisor to be held in a special deposits account by the appropriate Federal agency until a participating area is finally approved and then applied as earned or returned in accordance with a determination of the sum due as royalty to the United States, Indian Tribes, or allottees on the basis of such approved participating area.

Whenever it is determined, subject to the approval of the Supervisor, that a well drilled under this agreement is not capable of production in paying quantities and inclusion of the land on which it is situated in a participating area is unwarranted, production from such well shall, for the purposes of settlement among all parties other than the working interest owners, be allocated to the land on which the well is located so long as that well is not within a participating area established for the pool or deposit from which such production is obtained. Settlement for working interest benefits from such well shall be made as provided in the Unit Operating Agreement.

ALLOCATION OF PRODUCTION

12. All unitized substances produced from each participating area established under this agreement, except any part thereof used in conformity with good operating practices within the unitized area for drilling, operating, camps and other production or development purposes, for repressuring or recycling in accordance with a plan of development approved by the Supervisor, or unavoidably lost, shall be deemed to be produced equally on an acreage basis from the several tracts of unitized land of the participating area established for such production and, for the purpose of determining any benefits accruing under this agreement each such tract of unitized land shall have allocated to it such percentage of said production as the number of acres of such tract included in said participating area bears to the total acres of unitized land in said participating area. It is hereby agreed that production of unitized substances from a participating area shall be allocated as provided herein regardless of whether any wells are drilled on any particular part or tract of said participating area. If any gas produced from one participating area is used for repressuring or recycling purposes in another participating area, the first gas withdrawn from such last mentioned participating area for sale during the life of this agreement shall be considered to be the gas so transferred until an amount equal to that transferred shall be so produced for sale and such gas shall be allocated to the participating area from which initially produced as constituted at the time of such final production.

DEVELOPMENT OR OPERATION OF NON-PARTICIPATING LAND OR FORMATIONS

13. Any party or parties hereto other than the Unit Operator owning or controlling a majority of the working interests in any unitized land having thereon a regular well location in accordance with a well-spacing pattern established under an approved plan of development and operation may, with the approval of the Supervisor and at such party's sole risk, cost and expense, drill a well to test any formation for which a participating area has not been established or to test any formation for which a participating area has been established if such location is not within said participating area, unless within 60 days of receipt of notice from said party or parties of its or their intention to drill the well the Unit Operator elects and commences to drill such well in like manner as other wells are drilled by the Unit Operator under this agreement.

If any well drilled as aforesaid by a working interest owner or owners results in production such that the land upon which it is situated may properly be included in a participating area, such participating area shall be established or enlarged as provided in this agreement, the party or parties paying the cost of drilling such well shall be reimbursed as provided in the unit operating agreement for the cost of drilling such well, and the well shall thereafter be operated by Unit Operator in accordance with the terms of this agreement and the unit operating agreement.

If any well drilled as aforesaid by a working interest owner or owners obtains production in quantities insufficient to justify inclusion of the land upon which such well is situated in a participating area, such well may be operated and produced by the party or parties drilling the same subject to the conservation requirements of this agreement. The royalties in amount or value of production from any such well shall be paid as specified in the underlying lease and agreements affected.

ROYALTIES AND RENTALS

14. The United States and the Assiniboine-Sioux Indian Tribes of the Fort Peck Indian Reservation, Montana, and all royalty owners who, under existing contract, are entitled to take in kind a share of the substances now unitized hereunder produced from any tract, shall hereafter be entitled to the right to take in kind their share of the unitized substances allocated to such tract, and Unit Operator, or in case of the operation of a well by a working interest owner as herein in special cases provided for, such working interest owner, shall make deliveries of such royalty share taken in kind in conformity with applicable contracts, laws and regulations. Settlement for royalty interests not taken in kind shall be made by working interest owners responsible therefor under existing contracts, laws and regulations, on or before the last day of each month for unitized substances produced during the preceding calendar month; provided, however, that nothing herein contained shall operate to relieve the lessees of Federal land and Indian land from their respective lease obligations for the payment of rentals and royalties due under their Federal and Indian leases as such leases are herein modified.

If gas obtained from lands not subject to this agreement is introduced into any participating area hereunder, for use in repressuring, stimulation of production, or increasing ultimate recovery, which shall be in conformity with a plan first approved by the Supervisor, a like amount of gas, after settlement as herein provided for any gas

MAR02-0776 MAR-776

transferred from any other participating area, with due allowance for loss or depletion from any cause, may withdrawn from the formation into which the gas was introduced, royalty free as to dry gas, but not as to the produc extracted therefrom; provided that such withdrawal shall be at such time as may be provided in the plan of oper tions or as may otherwise be consented to by the Supervisor as conforming to good petroleum engineering practic and provided further, that such right of withdrawal shall terminate on the termination of this unit agreement.

Royalty due the United States and the Assiniboine-Sioux Tribes of the Fort Peck Indian Reservation, Montana; and to the owners of restricted Allotted Assiniboine-Sioux Indian lands shall be computed as provided in the operating regulations and paid in value or delivered in kind as to all unitized substances on the basis of the amounts thereof allocated to unitized Federal and Indian land as provided herein at the rates specified in the respective leases, or as to Federal leases at such lower rate or rates as may be authorized by law or regulation; provided, that for leases on which the royalty rate depends on the daily average production per well, said average production shall be determined in accordance with the operating regulations as though each participating area were a single consolidated lease.

Annual rental and any minimum royalties due under leases on Indian land subject to this agreement shall be paid by the working interest owners responsible therefor under existing leases, contracts, laws and regulations, at the rates as specified in the respective leases.

Rentals or minimum royalties due on other leases committed hereto shall be paid by working interest owners responsible therefor under existing contracts, laws, and regulations, provided that nothing herein contained shall operate to relieve the lessees of any land from their respective lease obligations for the payment of any rental or minimum royalty in lieu thereof due under their leases. Rentals or minimum royalties due for lands of the United States subject to this agreement shall be paid at the rate specified in the respective leases from the United States, unless such rental or minimum royalty is waived, suspended, or reduced by law or by approval of the Secretary.

The parties hereto holding interests in privately owned land (the term "privately owned lands" as used herein shall not be construed to include restricted tribal or allotted Indian land) within the unit area consent and agree, to the extent of their respective interests, that each lease thereon which is committed hereto may be continued in effect beyond the primary term of such lease and during the term of this agreement, provided, however, that as to any portion of privately owned land subject to a lease committed to this agreement which lies outside a participating area, the lessee shall pay the delay rentals provided in the lease, reduced in the proportion that the mineral or royalty acre interests subject to such lease in the land located in a participating area bears to the total mineral or royalty acre interest in all lands subject to such lease, in the time, manner and amount provided by said lease, subject to the right of surrender provided for in Section 30.

CONSERVATION

15. Operations hereunder and production of unitized substances shall be conducted to provide for the most economical and efficient recovery of said substances without waste, as defined by or pursuant to State or Federal law or regulation.

DRAINAGE

16. The Unit Operator shall take appropriate and adequate measures to prevent drainage of unitized substances from unitized land by wells on land not subject to this agreement, or pursuant to applicable regulations pay a fair and reasonable compensatory royalty as determined by the Supervisor.

LEASES AND CONTRACTS CONFORMED TO AGREEMENT

17. The terms, conditions and provisions of all leases, subleases, and other contracts relating to exploration, drilling, development or operation for oil or gas of lands committed to this agreement are hereby expressly modified and amended to the extent necessary to make the same conform to the provisions hereof, but otherwise to remain in full force and effect, and the parties hereto hereby consent that the Secretary shall and by his approval hereof or by the approval hereof by his duly authorized representative, does hereby establish, alter, change or revoke the drilling, producing, rental, minimum royalty and royalty requirements of Federal and Indian leases committed hereto and the regulations in respect thereto to conform said requirements to the provisions of this agreement, and, without limiting the generality of the foregoing, all leases, subleases and contracts are particularly modified in accordance with the following:

(a) The development and operation of lands subject to this agreement under the terms hereof shall be deemed full performance of all obligations for development and operation with respect to each and every part or separately owned tract subject to this agreement, regardless of whether there is any development of any particular part or tract of the unit area, nothwithstanding anything to the contrary in any lease, operating agreement or other contract by and between the parties hereto, or their respective predecessors in interest, or any of them.

(b) Drilling and producing operations performed hereunder upon any tract of unitized lands will be accepted and deemed to be performed upon and for the benefit of each and every tract of unitized land, and no lease shall be deemed to expire by reason of failure to drill or to produce wells situated on land therein embraced.

(c) Suspension of drilling or producing operations on all unitized lands pursuant to direction or consent of the Secretary or his duly authorized representative shall be deemed to constitute such suspension pursuant to such direction or consent as to each and every tract of unitized land.

(d) Each lease, sublease, or contract relating to the exploration, drilling, development or operation for oil or gas of lands other than those of the United States and restricted Tribal and allotted Indian committed to this agreement, which, by its terms might expire prior to the termination of this agreement, is hereby extended beyond any such term so provided therein so that it shall be continued in full force and effect for and during the term of this agreement, subject to the rental provisions of Sections 14 hereof.

(e) Any Federal lease for a fixed term of twenty (20) years or any renewal thereof or any part of such lease which is made subject to this agreement shall continue in force beyond the term provided therein until the termination hereof. Any other Federal lease or any restricted Tribal or allotted Indian lease committed hereto shall continue in force beyond the term so provided therein or by law as to the committed land so long as such land remains committed hereto, provided a valuable deposit of unitized substances is discovered within the unit area prior to the expiration date of the primary term of such lease.

(f) Each sublease or contract relating to the operation and development of unitized substances from lands of the United States committed to this agreement, which by its terms would expire prior to the time at which the underlying lease, as extended by the immediately preceding paragraph will expire, is hereby extended beyond any such term so provided therein so that it shall be continued in full force and effect for and during the term of the underlying lease as such term is hereby extended.

(g) The drilling of an initial test well as provided in Section 9 hereof, located on restricted tribal or allotted lands of the Assiniboine-Sioux Tribes, shall constitute full satisfaction of the express obligation to drill a test well contained in all the oil and gas leases covering such restricted Indian lands lying within the unit area.

LEASE SEGREGATION

18. Notwithstanding any other provisions, including but not limited to Sections 14 and 17 of this unit agreement, it is expressly understood and agreed that any lease having only a portion of its lands committed hereto shall be segregated as to the portion committed and the portion not committed, and the terms of such lease shall apply separately to such segregated portions commencing as of the effective date hereof for all intents and purposes as fully and effectively as if they had been issued as separate leases. In the event any such lease provides for a lump sum rental payment, such payment shall be prorated between the portions so segregated in proportion to the acreage in the respective tracts.

MAR-777

MAR02-0777

COVENANTS RUN WITH LAND

19. The covenants herein shall be construed to be covenants running with the land with respect to the interests of the parties hereto and their successors in interest until this agreement terminates, and any grant, transfer, or conveyance of interest in land or leases subject hereto shall be and hereby is conditioned upon the assumption of all privileges and obligations hereunder by the grantee, transferee, or other successor in interest, and as to the Tribal Indian land and restricted Allotted Indian lands shall be subject to approval by the Commissioner or his duly authorized representative. No assignment or transfer of any working, royalty, or other interest subject hereto shall be binding upon Operator until the first day of the next calendar month after Unit Operator is furnished with the original, photostatic, or certified copy of the instrument of transfer.

EFFECTIVE DATE AND TERM

20. This agreement shall become effective upon approval by the Director, and shall be for a term of five (5) years from date of approval unless

(a) such date of expiration is extended by the director, or

(b) it is reasonably determined prior to the expiration of the fixed term or any extension thereof that the unitized land is incapable of production of unitized substances in paying quantities and after notice of intention to terminate the agreement on such ground is given by the Unit Operator to all parties in interest at their last known addresses, the agreement is terminated with the approval of the Director, or

(c) a valuable discovery of unitized substances has been made on unitized land during said initial term or any extension thereof, in which event the agreement shall remain in effect for such term and so long as unitized substances can be produced from the unitized land in paying quantities, that is, in this particular instance, quantities sufficient to pay for the cost of producing same from existing wells on unitized land within any participating area established hereunder, and, should production cease, so long thereafter as diligent operations are in progress for the restoration of production or discovery of new production and so long thereafter as the unitized substances so discovered can be produced as aforesaid; or

(d) it is terminated as provided in Section 8, Section 9 or Section 20 hereof, or

(e) this agreement may be terminated at any time by not less than seventy-five precent (75%), on an acreage basis, of the owners of working interest signatory hereto with the approval of the Director.

RATE OF PROSPECTING DEVELOPMENT AND PRODUCTION

21. The Director is hereby vested with authority to alter or modify from time to time in his discretion the quantity and rate of production under this agreement when such quantity and rate is not fixed pursuant to Federal or State law or does not conform to any statewide voluntary conservation or allocation program which is established, recognized and generally adhered to by the majority of operators in such State, such authority being hereby limited to alteration or modification in the public interest, the purpose thereof and the public interest to be served thereby to be stated in the order of alteration or modification. Without regard to the foregoing the Director is also hereby vested with authority to alter or modify from time to time in his discretion the rate of prospecting and development and the quantity and rate of production under this agreement when such alteration or modification is in the interest of attaining the conservation objectives stated in this agreement.

APPEARANCES

22. Unit Operator shall, after notice to other parties affected, have the right to appear for or on behalf of any and all interests affected hereby before the Department of the Interior and to appeal from orders issued under the regulations of said Department or to apply for relief from any of said regulations or in any proceedings relative to operations before the Department of the Interior or any other legally constituted authority; provided, however, that any other interested party shall also have the right at his own expense to be heard in any such proceeding.

NOTICES

23. All notices, demands, or statements required hereunder to be given or rendered to the parties hereto shall be deemed fully given if given in writing and personally delivered to the party or sent by postpaid registered mail, addressed to such party or parties at their respective addresses set forth in connection with the signatures hereto or to the ratification or consent hereof or to such other address as any such party may have furnished in writing to party sending the notice, demand, or statement.

NO WAIVER OF CERTAIN RIGHTS

24. Nothing in this agreement contained shall be construed as a waiver by any party hereto of the right to assert any legal or constitutional right or defense as to the validity or invalidity of any law of the State wherein said unitized lands are located, or of the United States, or regulations issued thereunder in any way affecting such party, or as a waiver by any such party of any right beyond his or its authority to waive.

UNAVOIDABLE DELAY

25. All obligations under this agreement requiring the Unit Operator to commence or continue drilling or to operate on or produce unitized substances from any of the lands covered by this agreement shall be suspended while, but only so long as, the Unit Operator despite the exercise of due care and diligence is prevented from complying with such obligations, in whole or in part, by strikes, lockouts, acts of God, Federal, State, or municipal laws or agencies, unavoidable accidents, uncontrollable delays in transportation, inability to obtain necessary materials in open market, or other matters beyond the reasonable control of the Unit Operator whether similar to matters herein enumerated or not.

FAIR EMPLOYMENT

26. The Unit Operator shall not discriminate against any employee or applicant for employment because of race, creed, color, or national origin, and an identical provision shall be incorporated in all sub-contracts.

LOSS OF TITLE

27. In the event title to any tract of unitized land or substantial interest therein shall fail and the true owner cannot be induced to join this unit agreement, so that such tract is not committed to this unit agreement, or the operation thereof hereunder becomes impractical as a result thereof, such tract shall automatically be regarded as not committed to the unit agreement and there shall be such readjustment of costs and benefits as may be required on account of the loss of such title. In the event of a dispute as to title as to any royalty, working or other interests subject thereto, the Unit Operator may withhold payment or delivery on account thereof without liability for interest until the dispute is finally settled; provided, that, as to Federal or Indian land or leases, no payment of funds due the United States or the Assiniboine-Sioux Indian Tribes of the Fort Peck Indian Agency, Montana, and to the owners of restricted Allotted Assiniboine-Sioux Indian lands shall be withheld, but such funds shall be deposited as directed by the Supervisor to be held in a special deposits account by the appropriate Federal Agency pending final settlement of the title dispute, and then applied as earned or returned in accordance with such final settlement.

Unit Operator as such is relieved from any responsibility for any defect or failure of any title hereunder.

NON-JOINDER AND SUBSEQUENT JOINDER

28. If the owner of any substantial interest in a tract within the unit area fails or refuses to subscribe or consent to this agreement, the working interest owner in that tract may withdraw said tract from this agreement by written notice to the Director and the Unit Operator prior to the approval of this agreement by the Director. Any oil or gas interests in lands within the unit area not committed hereto prior to submission of this agreement for final approval may thereafter be committed hereto by the owner or owners thereof subscribing or consenting to this agreement and, if the interest is a working interest, by the owner of such interest also subscribing to the Unit Operating Agreement. After operations are commenced hereunder, the right of subsequent joinder, as provided in this section, by a working interest owner is subject to such requirements or approvals, if any, pertaining to such joinder,

MAR02-0778

MAR-778

as may be provided for in the Unit Operating Agreement. After final approval hereof, joinder to this agreement by a non-working interest owner must be consented to in writing by the working interest owner committed hereto responsible for the payment of any benefits that may accrue hereunder in behalf of such non-working interest. Prior to final approval hereof, joinder by any owner of non-working interest must be accompanied by appropriate joinder by the owner of the corresponding working interest in order to be regarded as effectively committed hereto. A subsequent joinder shall be effective as of the first day of the month following the filing with the Supervisor of duly executed counterparts of all or any papers necessary to establish effective commitment of any tract to this agreement unless objection to such joinder is duly made within sixty (60) days by the Director.

COUNTERPARTS

29. This agreement may be executed in any number of counterparts no one of which needs to be executed by all parties or may be ratified or consented to by separate instrument in writing specifically referring hereto and shall be binding upon all those parties who have executed such a counterpart, ratification, or consent hereto with the same force and effect as if all such parties had signed the same document and regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands within the above described unit area.

SURRENDER

30. No right to surrender any lease or operating agreement reserved in any such instrument shall be exercised as to any lands within a participating area established pursuant to this agreement. There shall be no restriction on the right to surrender any lease or operating agreement embracing non-participating lands if that right is reserved in such instrument, subject, however, to the conditions hereinafter prescribed:

(a) If a lease or portion thereof embracing non-participating lands is terminated as a result of a surrender to the lessor, such lands shall not be deemed committed to this agreement unless and until such lands are recommitted hereto by an agreement with the Unit Operator;

(b) If operating rights are surrendered to a lessee, said lessee shall have the right to become a party to a unit operating agreement with the Unit Operator, effective as of the date of such surrender, or may with the consent of the lessor, withdraw such lease from the unit agreement and operate such lease independently but in accord with the conservation provisions of the unit agreement; provided, that if neither of these alternatives is adopted within a period of six (6) months following the effective date of surrender, the lease shall automatically terminate as to the lands remaining in the unit area.

TAXES

31. The working interest owners shall render and pay for their account and the account of the royalty owners all valid taxes on or measured by the unitized substances in and under or that may be produced, gathered and sold from the land subject to this contract after the effective date of this agreement, or upon the proceeds or net proceeds derived therefrom. Except as to Federal and restricted Tribal and allotted Indian lands, the working interest owners on each tract shall and may charge the proper proportion of said taxes to the royalty owners having interests in said tract, and may currently retain and deduct sufficient of the unitized substances or derivative products, or net proceeds thereof from the allocated share of each royalty owner to secure reimbursement for the taxes so paid. Taxes on land or on mineral interests in place shall be paid by the owners thereof.

NO PARTNERSHIP

32. It is expressly agreed that the relation of the parties hereto is that of independent contractors and nothing in this agreement contained, expressed or implied, nor any operations conducted hereunder, shall create or be deemed to have created a partnership or association between the parties hereto or any of them.

IN WITNESS WHEREOF, the parties hereto have caused this agreement to be executed and have set opposite their respective names the date of execution.

WORKING INTEREST OWNERS

_____, 1951
Address:
First National Bank Bldg.
El Dorado, Arkansas

C. H. MURPHY, JR.

As Unit Operator and as an Owner of Working Interest

THE CARTER OIL COMPANY, a corporation

By_____
Vice President

_____, 1951
Address:
P. O. Box 801
Tulsa, Oklahoma

ATTEST:

_____
Assistant Secretary

PHILLIPS PETROLEUM COMPANY, a corporation

By_____
Vice President

_____, 1951
Address:

ATTEST:

_____
Assistant Secretary

PLACID OIL COMPANY, a corporation

By_____
Vice President

_____, 1951
Address:
Mercantile National Bank Building
Dallas, Texas

ATTEST:

_____
Assistant Secretary

GENERAL PETROLEUM CORPORATION, a corporation

By_____
Vice President

_____, 1951
Address:

ATTEST:

_____
Assistant Secretary

_____, 1951
Address:

C. F. LUNDGREN

As Owners of Working Interests

MAR02-0779

MAR-779

OTHER PARTIES:

ASSINIBOINE-SIOUX TRIBES OF INDIANS of
The Fort Peck Indian Reservation, Montana

By _____

_____ Secretary, Executive Board, Fort Peck Tribal Council	Chairman, Executive Board, Fort Peck Tribal Council
_____ Member, Executive Board, Fort Peck Tribal Council	_____ Member, Executive Board, Fort Peck Tribal Council
_____ Member, Executive Board, Fort Peck Tribal Council	_____ Member, Executive Board, Fort Peck Tribal Council
_____ Member, Executive Board, Fort Peck Tribal Council	_____ Member, Executive Board, Fort Peck Tribal Council
_____ Member, Executive Board, Fort Peck Tribal Council	_____ Member, Executive Board, Fort Peck Tribal Council
_____ Member, Executive Board, Fort Peck Tribal Council	_____ Member, Executive Board, Fort Peck Tribal Council
_____ Member, Executive Board, Fort Peck Tribal Council	_____ Member, Executive Board, Fort Peck Tribal Council

Witnesses to signatures of Chairman, Secretary and Members of the Executive Board of the Fort Peck Tribal Council:

_____ Address:

_____ Address:

The undersigned _____, wife of C. H. Murphy, Jr., does hereby consent and agree to the terms of the within and foregoing instrument.

_____, 1951 _____

Address:
First National Bank Building
El Dorado, Arkansas

The undersigned _____, wife of C. F. Lundgren does hereby consent and agree to the terms of the within and foregoing instrument.

_____, 1951 _____

Address:

STATE OF ARKANSAS)
) SS
COUNTY OF UNION)

On this _____ day of _____, 1951 before me personally appeared C. H. MURPHY, JR. and _____, his wife, to me known to be the persons described in and who executed the foregoing instrument, and acknowledged that they executed the same as their free act and deed.

Given under my hand and seal this _____ day of _____, A.D. 19_____.
My commission expires:

_____ _____
Notary Public

Residing at _____

STATE OF _____)
) SS
COUNTY OF _____)

On this _____ day of _____, 1951 before me personally appeared C. F. LUNGREN _____, to me known to be the person(s) described in and who executed the foregoing instrument and acknowledged that _____ he _____ executed the same as _____ free act and deed.

Given under my hand and seal this _____ day of _____, A.D. 19_____.
My commission expires:

_____ _____
Notary Public

Residing at _____

MAR02-0780

MAR-780

STATE OF.....)
) SS
COUNTY OF.....)

On this.....day of....., in the year..... , before me .....,
a Notary Public, personally appeared....., known to me to be the
.....President of The Carter Oil Company, one of the corporations that executed the within instrument and acknowledged to me that such corporation executed the same.

Witness my hand and notarial seal the date last aforesaid.

My commission expires:

.....

.....
Notary Public in and for the
State of .....
Residing at.....

STATE OF.....)
) SS
COUNTY OF.....)

On this ..... day of ..... , in the year....., before me.....,
a Notary Public, personally appeared....., known to me to be the
..... President of the Phillips Petroleum Company, one of the corporations that executed the within instrument and acknowledged to me that such corporation executed the same.

Witness my hand and notarial seal the date last aforesaid.

My commission expires:

.....

.....
Notary Public in and for the
State of.....
Residing at.....

STATE OF.....)
) SS
COUNTY OF.....)

On this.....day of....., in the year....., before me.....,
a Notary Public, personally appeared....., known to me to be the
.....President of the Placid Oil Company, one of the corporations that executed the within instrument and acknowledged to me that such corporation executed the same.

Witness my hand and notarial seal the date last aforesaid.

My commission expires:

.....

.....
Notary Public in and for the
State of .....
Residing at .....

STATE OF.....)
) SS
COUNTY OF.....)

On this.....day of....., in the year ....., before me .....,
a Notary Public, personally appeared....., known to me to be the
.....President of the General Petroleum Corporation, one of the corporations that executed the within instrument and acknowledged to me that such corporation executed the same.

Witness my hand and notarial seal the date last aforesaid.

My commission expires:

.....

.....
Notary Public in and for the
State of .....
Residing at .....

STATE OF.....)
) SS
COUNTY OF .....)

On this.....day of....., in the year ..... , before me .....,
a Notary Public, personally appeared....., Chairman, Executive Board, Fort Peck Tribal Council, ..., Secretary, Executive Board, Fort Peck Tribal Council and .....

.....

.....

.....

..... Members of the Executive Board, Fort Peck Tribal Council, known to me to be the Chairman, Secretary and Members of the Executive Board of the Fort Peck Tribal Council that executed the within instrument for and in behalf of the Assiniboine-Sioux Tribes of Indians of the Fort Peck Indian Reservation, Montana, and acknowledged to me that the Fort Peck Tribal Council executed the same in such behalf.

Witness my hand and notarial seal the date last aforesaid.

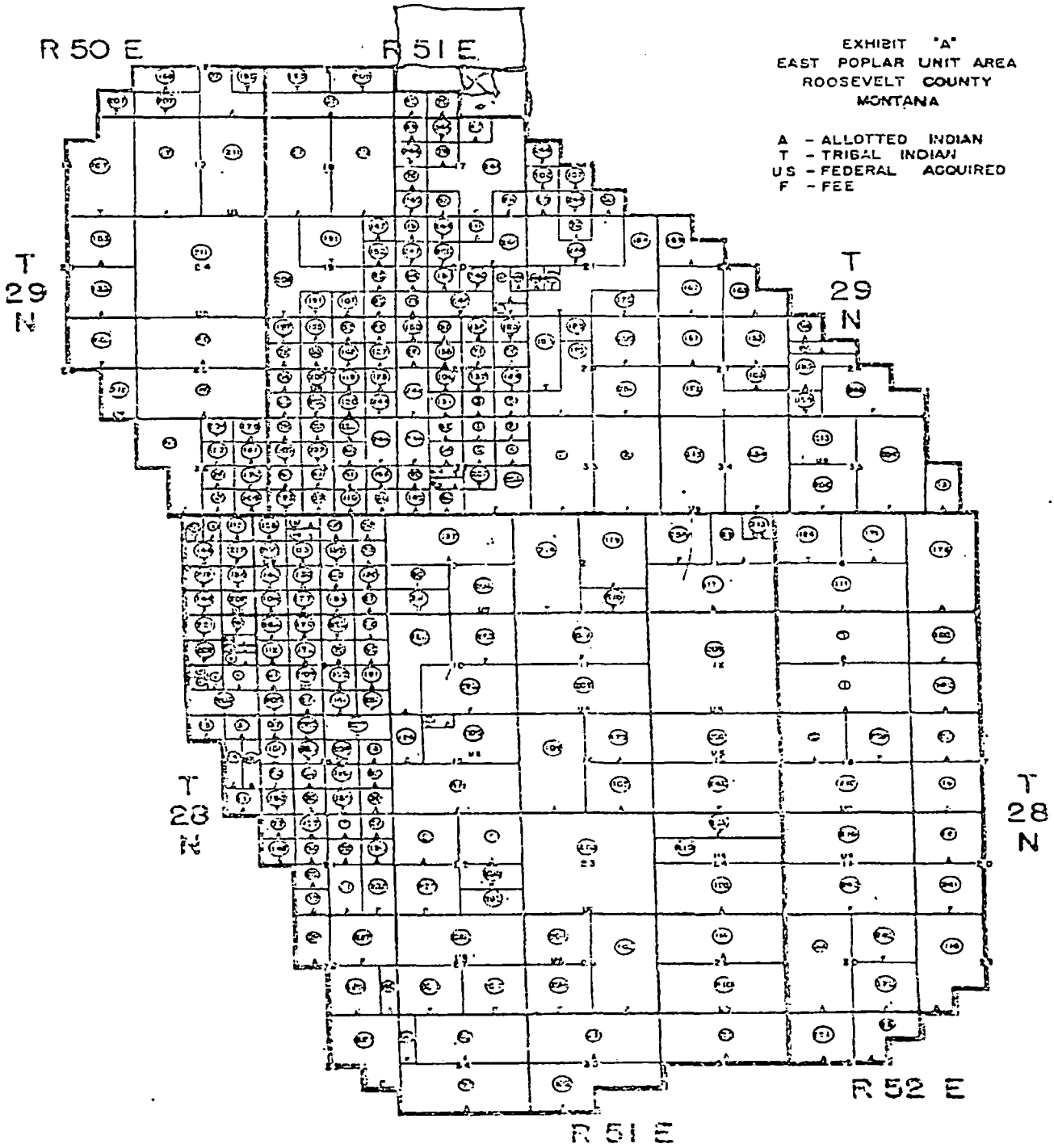
My commission expires:

.....

.....
Notary Public in and for the
State of .....
Residing at .....

MAR02-0781

MAR-781



MAR02-0782

MAR-782

EXHIBIT "2"

SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND GAS INTEREST IN ALL LAND IN THE EAST POPLAR UNIT AREA, ROOSEVELT COUNTY, MONTANA

ALLOTTED INDIAN LANDS

Tract No.	Description of Allotted Indian Lands	No. of Acres	Contract No. & Effective Date of Lease	Owners of Basic 12½% Royalty and Interest in Basic Royalty Owned by Each		Original Lessee of Record	Owners of Overriding Royalty & Percentage	Owners of Net Working Interest and Percentage
1	T29N-R52E Sec. 7: Lots 3, 4, E½SW¼, SE¼ T29N-R51E Sec. 32: NW¼NE¼ (Allotment 53)	351.55	I-37-Ind-12714 3-8-50	Estelle Bad Temper Brien	All	C. H. Murphy, Jr.	None	C. H. Murphy, Jr. 80% Florida Oil Co. 20%
2	T29N-R51E Sec. 32: NE¼NE¼ Sec. 33: E½ (Allotment 36)	360.00	I-37-Ind-12715 3-8-50	Estelle Bad Temper Brien	All	"	"	"
3	T28N-R52E Sec. 7: Lots 1, 2, E½NW¼, NE¼ T29N-R51E Sec. 29: SW¼SE¼ (Allotment 34)	390.93	I-37-Ind-12716 3-8-50	Estelle Bad Temper Brien	All	"	"	"
4	T29N-R51E Sec. 32: SE¼NE¼ (Allotment 37)	40.00	I-37-Ind-12717 3-8-50	Estelle Bad Temper Brien	All	"	"	"
5	T28N-R52E Sec. 18: Lots 1, 2, E½NW¼ T29N-R51E Sec. 32: SW¼NE¼ (Allotment 31)	191.67	I-37-Ind-12718 3-8-50	Estelle Bad Temper Brien	All	"	"	"
6	T29N-R51E Sec. 29: SE¼SE¼ Sec. 33: W½ (Allotment 33)	360.00	I-37-Ind-12719 3-31-50	Estelle Bad Temper Brien	All	"	"	"
7	T28N-R51E Sec. 21: NW¼NW¼ (Allotment 43)	40.00	I-37-Ind-12720 3-31-50	Charity Laddiker Wing	All	"	"	"
8	T28N-R51E Sec. 8: E½NW¼SE¼, S½SE¼NE¼ Sec. 22: NW¼ (Allotment 129)	200.00	I-37-Ind-12721 3-8-50	Maude Foote Buckles	All	"	"	"
9	T28N-R51E Sec. 6: NE¼SE¼ Sec. 22: NE¼ (Allotment 128)	200.00	I-37-Ind-12722 3-31-50	Maude Foote Buckles Austin A. Buckles	50% 50% 100%	"	"	"
10	T28N-R51E Sec. 5: Lot 5 (Allotment 143)	20.00	I-37-Ind-12724 3-8-50	Benjamin Bandola	All	"	"	"
11	T29N-R51E Sec. 35: N½ (Allotment 257)	320.00	I-37-Ind-12725	Lewis E. Evans	All	"	"	"
12	T29-R51E Sec. 34: SW¼ (Allotment 261)	320.00	I-37-Ind-12726 6-8-50	William A. Davis	All	"	"	"
13	T29N-R51E Sec. 36: W½SW¼ (Allotment 251)	80.00	I-37-Ind-12727 6-8-50	Francis W. Dupree	All	"	"	"
14	T29N-R51E Sec. 17: W½SE¼NE¼, W½NE¼SE¼ (Allotment 307)	40.00	I-37-Ind-12728 3-8-50	Charles Eder	All	"	"	"
15	T29N-R51E Sec. 17: NW¼NW¼ (Allotment 310)	40.00	I-37-Ind-12729 3-8-50	Benjamin Gary Hawk	All	"	"	"
16	T28N-R51E Sec. 17: SW¼ T29N-R51E Sec. 20: NW¼NW¼ (Allotment 412)	200.00	I-37-Ind-12730 3-8-50	Howard L. Holmes	All	"	"	"
17	T29N-R50E Sec. 13: W½ (Allotment 472)	320.00	I-37-Ind-12731 3-8-50	George Elm Angelia Elm	50% 50% 100%	"	"	"
18	T29N-R51E Sec. 16: S½NE¼ (Allotment 795)	40.00	I-37-Ind-12732 3-16-50	Charles Eder	All	"	"	"
19	T29N-R51E Sec. 20: NW¼ T29N-R51E Sec. 20: NW¼NW¼ (Allotment 411)	200.00	I-37-Ind-12733 3-8-50	James Helmer	All	"	"	"
20	T29N-R51E Sec. 30: N½ T29N-R51E Sec. 21: NE¼NW¼ (Allotment [illegible])	300.00	I-37-Ind-12734 3-8-50	Charles Gabbins	All	"	"	"
21	T28N-R51E Sec. 30: N½ (Allotment 870)	320.00	I-37-Ind-12735 3-8-50	John Smith	All	"	"	"
22	T29N-R51E Sec. 9: SE¼SW¼ (Allotment 1377)	40.00	I-37-Ind-12736 3-8-50	Elizabeth Tessum Inst Cancel	All	"	"	"
23	T28N-R51E Sec. 31: SW¼NE¼, NW¼NE¼ (Allotment 671)	120.00	I-37-Ind-12737 3-8-50	Joseph Monkin	All	"	"	"
24	T29N-R51E Sec. 34: NW¼SE¼ (Allotment 200[illegible])	40.00	I-37-Ind-12739 3-8-50	George Dorey	All	"	"	"
25	T29N-R51E Sec. 9: NE¼NE¼ (Allotment 2[illegible])	40.00	I-37-Ind-12740 3-8-50	Fannie Buckles Charette	All	"	"	"
26	T29N-R51E Sec. 9: SW¼NW¼ (Allotment 2[illegible])	40.00	I-37-Ind-12741 3-8-50	Howard E. Trinder	All	"	"	"

MAR-783

MAR02-0783

EXHIBIT "B"—ALLOTTED INDIAN LANDS—Continued

Tract No.	Description of Allotted Indian Lands	No. of Acres	Contract No. & Effective Date of Lease	Owners of Basic 12½% Royalty and Interest in Basic Royalty Owned by Ind.		Original Lessee of Record	Owners of Overriding Royalty & Percentage	Owners of Net Work Int. Interest and Percentage
27	T29N-R31E Sec. 4; SE¼SE¼ (Allotment 2419)	40.00	I-37-Ind-12742 5-8-50	Walter Alias Bubiau	All	C. H. Murphy, Jr.	None	C. H. Murphy, Jr. Pinal Oil Co. 50%
28	T29N-R31E Sec. 17; SE¼SE¼ (Allotment 2500)	40.00	I-37-Ind-12743 5-8-50	Jean Vernon Parsons	All	"	"	"
29	T29N-R31E Sec. 20; E½NW¼ (Allotment 841)	80.00	I-37-Ind-12744 5-8-50	Josephine Jacob Grinagre	All	"	"	"
30	T29N-R31E Sec. 16; SW¼SW¼ (Allotment 2100)	40.00	I-37-Ind-12791 5-11-50	Kate Wine Simons	All	"	"	"
31	T29N-R31E Sec. 17; NE¼NE¼ (Allotment 1090)	40.00	I-37-Ind-12792 5-8-50	Helen Youpee Brushbone	All	"	"	"
32	T29N-R31E Sec. 21; SW¼NE¼ (Allotment 2027)	40.00	I-37-Ind-12793 5-18-50	Phillipsene McClemmy Phillipsene Dulula McClemmy Weare	50% 50% 100%	"	"	"
33	T29N-R31E Sec. 20; SE¼NW¼ (Allotment 201)	40.00	I-37-Ind-12794 5-8-50	Betty C. Akers, also known as Sarah Smith Akers	All	"	"	"
34	T29N-R31E Sec. 24; NW¼NW¼ (Allotment 1786)	40.00	I-37-Ind-12795 5-8-50	Mabel Dupree Daniels	All	"	"	"
35	T29N-R31E Sec. 33; E½NW¼ Lots 1, 2, 3, 4 (Allotment 1921)	225.12	I-37-Ind-12796 5-8-50	John J. Akers	All	"	"	"
36	T29N-R31E Sec. 4; Lot 1 (Allotment 2001)	40.00	I-37-Ind-12797 5-8-50	Alice Annie Frost	All	"	"	"
37	T29N-R31E Sec. 16; NW¼NW¼ (Allotment 2046)	40.00	I-37-Ind-12798 5-8-50	Mattie Rider Bower	All	"	"	"
38	T29N-R31E Sec. 14; SE¼SE¼ (Allotment 2274)	40.00	I-37-Ind-12799 5-8-50	Walter Broad Darrin	All	"	"	"
39	T29N-R31E Sec. 4; SE¼NW¼ (Allotment 2293)	40.00	I-37-Ind-12800 5-12-50	Austin E. Buckles	All	"	"	"
40	T29N-R31E Sec. 4; Lot 2 (Allotment 2445)	20.90	I-37-Ind-12801 5-8-50	Mabel B. Foote Bighorn	All	"	"	"
41	T29N-R31E Sec. 31; NW¼SE¼ (Allotment 2572)	40.00	I-37-Ind-12802 5-8-50	William Youngman No. 2	All	"	"	"
42	T29N-R31E Sec. 8; SW¼SW¼ (Allotment 2474)	40.00	I-37-Ind-12803 5-8-50	Esther Walking Eagle Bruised Bull	All	"	"	"
43	T29N-R31E Sec. 21; SE¼NW¼ (Allotment 2741)	40.00	I-37-Ind-12804 5-8-50	John Guiney McClemmy	All	"	"	"
44	T29N-R31E Sec. 30; NW¼, E½SW¼ (Allotment 243)	240.00	I-37-Ind-12805 5-8-50	William Bakes Andrew Red Bull, also known as Andrew Red Thunder	50% 50% 100%	"	"	"
45	T29N-R31E Sec. 33; E½E½SE¼ Sec. 34; NE¼, E½NW¼, E½W½NW¼ (Allotment 262)	320.00	I-37-Ind-12806 5-8-50	Bernard Davis	All	"	"	"
46	T29N-R31E Sec. 17; NW¼NE¼ (Allotment 471)	40.00	I-37-Ind-12807 5-8-50	Edna Kennedy Corbett	All	"	"	"
47	T29N-R31E Sec. 13; S½ (Allotment 491)	320.00	I-37-Ind-12808 5-8-50	William Knerr No. 2	All	"	"	"
48	T29N-R31E Sec. 31; Lot 3 (Allotment 3347)	39.97	I-37-Ind-12809 6-13-50	Carson Walking Eagle	All	"	"	"
49	T29N-R31E Sec. 31; NE¼SW¼ (Allotment 2929)	40.00	I-37-Ind-12810 5-8-50	Douglas Youngman	All	"	"	"
50	T29N-R31E Sec. 29; SE¼NE¼ (Allotment 3000)	40.00	I-37-Ind-12811 5-8-50	Mercedes Taylor Running Bear	All	"	"	"
51	T29N-R31E Sec. 21; W½NW¼ (Allotment 3040)	80.00	I-37-Ind-12812 5-8-50	Lucille Lester Brown	All	"	"	"
52	T29N-R31E Sec. 30; NW¼NE¼ (Allotment 3044)	40.00	I-37-Ind-12813 5-8-50	Raymond Edward Smith	All	"	"	"
53	T29N-R31E Sec. 17; NW¼ (Allotment 1007)	160.00	I-37-Ind-12814 5-8-50	Jennie V. Walking Eagle Russell	All	"	"	"
54	T29N-R31E Sec. 30; Lot 3 (Allotment 3001)	39.85	I-37-Ind-12815 5-8-50	Jennie V. Walking Eagle Russell	All	"	"	"
55	T29N-R31E Sec. 32; SE¼SW¼ (Allotment 3246)	40.00	I-37-Ind-12816 9-26-50	James Melbourne Emelia Red Temper Brien	50% 50% 100%	"	"	"
56	T29N-R31E Sec. 30; Lot 4 (Allotment 3457)	39.77	I-37-Ind-12817 5-8-50	Caroline Red	All	"	"	"

MAR02-0784

MAR-784

EXHIBIT "B"—ALLOTTED INDIAN LANDS—Continued

Tract No.	Description of Allotted Indian Lands	No. of Acres	Contract No. & Effective Date of Lease	Owners of basic 12½% royalty and interest in basic royalty Owners by tract		Original Lessee of Record	Owners of Overriding Royalty & Percentage	Owners of Net Working Interest and Percentage
57	T29N-R31E Sec. 7: S½SE¼, SE¼SW¼, Lot 4 T29N-R30E Sec. 12: S½SE¼, NW¼SE¼ (Allotment 3420)	279.38	I-37-Ind-12830 3-15-50	Malcolm Daniel Smith	All	C. H. Murphy, Jr.	None	C. H. Murphy, Jr. 75% Fleetwood Oil Co. 25%
58	T28N-R31E Sec. 16: NE¼SW¼ (Allotment 41)	40.00	I-37-Ind-12831 9-18-50	Michel Shields Redden Florence Redden, a minor Yvonne Redden, a minor David Redden, Jr., a minor Timothy Redden, a minor	33-1/3% 16-2/3% 16-2/3% 16-2/3% 16-2/3% 100 %	"	"	"
59	T29N-R31E Sec. 31: SE¼SW¼ (Allotment 1847)	40.00	I-37-Ind-12832 6-8-50	Alta E. Keiser	All	"	"	"
60	T29N-R31E Sec. 31: SE¼SE¼ (Allotment 2759)	40.00	I-37-Ind-12833 5-11-50	Raymond Buckley Cerrora	All	"	"	"
61	T29N-R31E Sec. 17: E½SE¼NE¼, E½NE¼SE¼ (Allotment 2894)	40.00	I-37-Ind-12834 5-8-50	Marcelia Eder	All	"	"	"
62	T29N-R31E Sec. 32: NE¼NW¼ (Allotment 3396)	40.00	I-37-Ind-12835 5-8-50	Remedine Stanford Huggins	All	"	"	"
63	T29N-R31E Sec. 17: SE¼SW¼ (Allotment 409)	40.00	I-37-Ind-12836 5-8-50	John Heimer	All	"	"	"
64	T29N-R31E Sec. 30: NW¼SW¼ (Allotment 557)	40.00	I-37-Ind-12837 5-8-50	Gladys Kellenbaum	All	"	"	"
65	T29N-R31E Sec. 19: NE¼SE¼ (Allotment 510)	40.00	I-37-Ind-12838 5-8-50	Cosmo Kellenbaum	All	"	"	"
66	T29N-R31E Sec. 30: NE¼NE¼ (Allotment 2016)	40.00	I-37-Ind-12839 5-8-50	Lizzie Kellenbaum Bond	All	"	"	"
67	T28N-R31E Sec. 21: NE¼NE¼ (Allotment 2056)	40.00	I-37-Ind-12840 9-28-50	Lucille Gibbs St. Pierre Maxine Lillian Renz, a minor Roberta Lyone Renz, a minor Anna Jean Renz, a minor	33-1/3% 22-2/9% 22-2/9% 22-2/9% 100 %	"	"	"
68	T29N-R31E Sec. 31: SW¼NE¼ (Allotment 2190)	40.00	I-37-Ind-12841 5-8-50	James Alvin McDonald	All	"	"	"
69	T29N-R31E Sec. 17: NW¼NW¼ (Allotment 2476)	40.00	I-37-Ind-12842 6-8-50	Amelia Keyes	All	"	"	"
70	T29N-R31E Sec. 8: SE¼SW¼ (Allotment 2853)	40.00	I-37-Ind-12843 5-8-50	Amos Henry Kennedy	All	"	"	"
71	T29N-R31E Sec. 29: SW¼NE¼ (Allotment 3097)	40.00	I-37-Ind-12844 10-16-50	Leonard Smith	All	"	"	"
72	T29N-R31E Sec. 30: Lot 2 (Allotment 3247)	39.74	I-37-Ind-12845 6-27-50	Winifred Abbott Swindell	All	"	"	"
73	T29N-R31E Sec. 20: SW¼SW¼ (Allotment 306)	40.00	I-37-Ind-12846 5-8-50	Louise Kellenbaum Forrest	All	"	"	"
74	T29N-R30E Sec. 25: S½ T29N-R31E Sec. 31: Lot 1 (Allotment 823)	358.84	I-37-Ind-12847 8-8-50	Vera Robbins Sherrod	All	"	"	"
75	T28N-R31E Sec. 9: SW¼NE¼ (Allotment 1060)	40.00	I-37-Ind-12848 5-8-50	William Whitright No. 2	All	"	"	"
76	T29N-R31E Sec. 21: NE¼NW¼ (Allotment 1873)	40.00	I-37-Ind-12849 5-8-50	Bessie Brown Parks Willie Taylor Roger Brown	33-1/3% 33-1/3% 33-1/3% 100 %	"	"	"
77	T28N-R31E Sec. 21: SE¼SW¼ (Allotment 1967)	40.00	I-37-Ind-12850 5-8-50	Lynn Morse	All	"	"	"
78	T29N-R31E Sec. 17: NW¼SW¼ (Allotment 2002)	40.00	I-37-Ind-12851 6-8-50	Acie M. Brooten	All	"	"	"
79	T29N-R31E Sec. 17: SE¼NW¼ (Allotment 2067)	40.00	I-37-Ind-12852 10-16-50	Lewis James Sayers	All	"	"	"
80	T29N-R31E Sec. 18: SW¼SW¼ (Allotment 2300)	40.00	I-37-Ind-12853 5-11-50	Marie Pereau Smith	All	"	"	"
81	T28N-R31E Sec. 9: NW¼NW¼ (Allotment 2269)	40.00	I-37-Ind-12854 5-8-50	Joseph C. Reddoor	All	"	"	"
82	T28N-R31E Sec. 16: NE¼SE¼ (Allotment 2860)	40.00	I-37-Ind-12855 5-8-50	Lincoln H. Hurley	All	"	"	"
83	T29N-R31E Sec. 34: SW¼SE¼ (Allotment 3847)	40.00	I-37-Ind-12856 5-8-50	Amos Denny	All	"	"	"
84	T29N-R31E Sec. 32: SE¼NW¼ (Allotment 3033)	40.00	I-37-Ind-12857 5-8-50	Richard H. Stanford	All	"	"	"
85	T29N-R31E Sec. 19: SE¼SE¼ (Allotment 509)	40.00	I-37-Ind-12858 5-8-50	Frank Kellenbaum	All	"	"	"

MAR02-0785

MAR-785

EXHIBIT "B"—ALLOTTED INDIAN LANDS—Continued

Tract No.	Description of Allotted Indian Lands	No. of Acres	Contract No. & Effective Date of Lease	Owners of Basic 12½% Royalty and Interest in Basic Royalty Owned by Lessee		Original Lessee of Record	Owners of Overriding Royalty & Percentage	Owners of Net Working Interest and Percentage
86	T20N-R31E Sec. 3: N½SW¼ (Allotment 710)	83.00	I-37-Ind-12859 6-12-50	Lewis Spotted Dog Florence Butchie Jennie Spotted Dog	33-1/3% 33-1/3% 33-1/3% 100 %	C. H. Murphy, Jr.	None	C. H. Murphy, Jr. 50% Placid Oil Co. 50%
87	T29N-R31E Sec. 10: E½W½ Lots 1, 2, 3, 4 (Allotment 2936)	317.00	I-37-Ind-12860 5-8-50	Maude Caroline Boyd Hollow	All	"	"	"
88	T29N-R31E Sec. 16: SE¼SW¼ (Allotment 43)	40.00	I-37-Ind-12861 5-7-50	Arlene June Beddoor	All	"	"	"
89	T28N-R31E Sec. 1: S½NE¼ Lot 2 (Allotment 189)	170.08	I-37-Ind-12862 10-16-50	George B. Blount Philipena McClammy Henry Blount Addie M. Moverhall Sanders Phillipena Long Denny Anna Rose Long Lower	25 % 12-2/3% 25 % 12-2/3% 8-1/3% 8-1/3% 100 %	"	"	"
90	T28N-R31E Sec. 16: NW¼SW¼ (Allotment 348)	40.00	I-37-Ind-12863 5-8-50	Albert Foote	All	"	"	"
91	T29N-R31E Sec. 17: SE¼SE¼ (Allotment 1994)	40.00	I-37-Ind-12864 5-8-50	Mary Ellen Moll Williams	All	"	"	"
92	T29N-R31E Sec. 32: NW¼SW¼ (Allotment 2335)	40.00	I-37-Ind-12865 5-8-50	Clement D. Stanford	All	"	"	"
93	T29N-R31E Sec. 8: NW¼SE¼ (Allotment 2079)	40.00	I-37-Ind-12866 5-8-50	Rose Fontaine Littlefield Shelley	All	"	"	"
94	T29N-R31E Sec. 21: NE¼NW¼ (Allotment 2106)	40.00	I-37-Ind-12867 5-8-50	Mildred Torrey Doore	All	"	"	"
95	T28N-R31E Sec. 6: SW¼NW¼SE¼, SW¼NW¼SE¼NE¼ T29N-R31E Sec. 32: S½NE¼SW¼ (Allotment 2927)	40.00	I-37-Ind-12868 5-8-50	Catherine Erler	All	"	"	"
96	T28N-R31E Sec. 9: SE¼NE¼ (Allotment 1057)	40.00	I-37-Ind-12869 5-8-50	Chauncy Whitright	All			"
97	T28N-R31E Sec. 21: NW¼NW¼ (Allotment 2322)	40.00	I-37-Ind-12870 5-8-50	Harry Moll	All	"	"	"
98	T29N-R31E Sec. 21: NE¼SW¼ (Allotment 2360)	40.00	I-37-Ind-12871 5-8-50	Marion Morse Lees	All	"	"	"
99	T29N-R31E Sec. 18: E½ (Allotment 2787)	320.00	I-37-Ind-12872 5-8-50	Eugene Leonard Dupree	All	"	"	"
100	T29N-R31E Sec. 29: NE¼SW¼ (Allotment 2992)	40.00	I-37-Ind-12873 5-8-50	Rose Mary Trinder Schmid	All	"	"	"
101	T29N-R31E Sec. 19: SW¼SE¼ (Allotment 3327)	40.00	I-37-Ind-12874 5-13-50	Shirley K. Helmer Smith	All	"	"	"
102	T29N-R31E Sec. 24: S½ (Allotment 152)	320.00	I-37-Ind-12875 5-8-50	Louise Cain Kirn	All	"	"	"
103	T28N-R31E Sec. 35: SW¼, N½SE¼ (Allotment 260)	240.00	I-37-Ind-12876 5-8-50	Rosalind Sears Randolph	All	"	"	"
104	T29N-R31E Sec. 4: SW¼SW¼ (Allotment 2353)	40.00	I-37-Ind-12877 5-8-50	Louise Duprez Albert Frank Albert	50% 50% 100%	"	"	"
105	T29N-R31E Sec. 14: W½ (Allotment 400)	320.00	I-37-Ind-12878 11-30-50	Mary Foote Maude E. Buckles Kate F. Redbear Alice Foote Mabel F. Bighorn Agnes S. Steele Trivien M. Graves Austin S. Buckles	33-3/9% 13-3/9% 13-3/9% 13-3/9% 13-3/9% 4-4/9% 4-4/9% 4-4/9% 100 %	"	"	"
106	T29N-R31E Sec. 14: SE¼ (Allotment 481)	160.00		Mary W. Foote Maude Buckles Kate Redbear Alice Foote Mabel Foote Bighorn Agnes Steele Trivien Marie Graves Austin Scott Buckles	33-3/9% 13-3/9% 13-3/9% 13-3/9% 13-3/9% 4-4/9% 4-4/9% 4-4/9% 100 %	"	"	"
[illegible]	T29N-R31E Sec. 16: NW¼SW¼ (Allotment 1322)	40.00	I-37-Ind-12880 9-29-50	Alice V. Pereau Merle P. Smith Jesse V. Pereau	33-1/3% 33-1/3% 33-1/3% 100 %	"	"	"
	T29N-R31E Sec. 16: NW¼NW¼ (Allotment 1392)	40.00	I-37-Ind-12881 5-8-50	Martha L. Pereau	All	"	"	"
	T29N-R30E Sec. 36: E½SE¼ (Allotment 1770)	40.00	I-37-Ind-12882 5-8-50	William J. Denny	All	"	"	"
	T29N-R31E Sec. 33: SW¼SE¼ (Allotment 2031)	40.00	I-37-Ind-12883 5-11-50	Fred Georgine Connors, a minor Anita Sharon Connors, a minor Carol Arlene Connors, a minor	33-1/3% 33-1/3% 33-1/3% 100 %	"	"	"

MAR02-0786

MAR-786

EXHIBIT "B"—ALLOTTED INDIAN LANDS—Continued

Tract No.	Description of Allotted Indian Lands	No. of Acres	Contract No. & Effective Date of Lease	Owners of Basic 12½% Royalty and Interest in Their Royalty Owned by Each		Original Lessee of Record	Owners of Overriding Royalty & Percentage	Owners of Net Working Interest and Percentage
111	T29N-R51E Sec. 9: Lots 6, 7, SE¼, E½SW¼ (Allotment 301)	316.64	I-37-Ind-12824 5-8-50	John Keen	All	C. H. Murphy, Jr.	None	C. H. Murphy, Jr. 50% Flada Oil Co. 50%
112	T29N-R51E Sec. 9: SW¼NW¼ (Allotment 85J)	40.00	I-37-Ind-12825 5-8-50	Frank Eagle	All	"	"	"
113	T29N-R51E Sec. 4: SE¼NW¼ (Allotment 307J)	40.00	I-37-Ind-12833 5-8-50	Mary Red Feather Iron Bear	All	"	"	"
114	T29N-R51E Sec. 25: N½ (Allotment 154)	320.00	I-37-Ind-12887 5-9-50	Susan Cain Moore	All	"	"	"
115	T29N-R51E Sec. 3: Lot 1 (Allotment 326)	30.97	I-37-Ind-12884 5-8-50	John Half Red	All	"	"	"
116	T28N-R52E Sec. 39: NW¼, N½SW¼, SW¼SW¼ (Allotment 158)	280.00	I-37-Ind-12939 9-23-50	Anna Thompson Red Fox Leon Spotted Bull	75% 25% 100%	"	"	"
117	T28N-R51E Sec. 1: S½ (Allotment 1420)	320.00	I-37-Ind-12870 5-12-50	Addie M. Hovermell Sanders	All	"	"	"
118	T28N-R51E Sec. 15: N½NS¼NW¼ (Allotment 497)	20.00	I-37-Ind-12851 5-8-50	William Knorr No. 1	All	"	"	"
119	T29N-R51E Sec. 2: N½SE¼, S½NE¼, Lots 1,2 T29N-R51E Sec. 30: NW¼SE¼ (Allotment 1777)	200.35	I-37-Ind-12892 5-8-50	Thomas Trinder	All	"	"	"
120	T29N-R51E Sec. 30: SW¼SE¼ (Allotment 1630)	40.00	I-37-Ind-12893 5-8-50	Bessie F. McDonald Palmer	All	"	"	"
121	T29N-R52E Sec. 31: Lots 1, 2, E½NW¼ (Allotment 680)	152.84	I-37-Ind-12894 6-13-50	Joseph Mustrot	All	"	"	"
122	T29N-R52E Sec. 36: SW¼NE¼ (Allotment 2300)	40.00	I-37-Ind-12895 5-8-50	Mark Denny	All	"	"	"
123	T29N-R52E Sec. 24: SE¼ (Allotment 2695)	160.00	I-37-Ind-12896 5-8-50	George Dupree	All	"	"	"
124	T28N-R51E Sec. 19: NW¼, W½SW¼ Sec. 15: W½NW¼ Sec. 31: SE¼NE¼ (Allotment 2340)	360.00	I-37-Ind-12897 7-31-50	Birdie Lester Vance	All	"	"	"
125	T29N-R51E Sec. 30: NE¼SE¼ (Allotment 3270)	40.00	I-37-Ind-12898 5-11-50	George Thompson, Jr.	All	"	"	"
126	T28N-R52E Sec. 8: NW¼ (Allotment 731)	160.00	I-37-Ind-12899 11-22-50	Mary Cutbair Owens	All	"	"	"
127	T29N-R51E Sec. 30: SE¼NE¼ (Allotment 2237)	40.00	I-37-Ind-12904 6-16-50	Claude R. Trinder	All	"	"	"
128	T29N-R51E Sec. 31: NW¼NE¼ (Allotment 1987)	40.00	I-37-Ind-12905 5-11-50	Benjamin Franklin McDonald	All	"	"	"
129	T28N-R51E Sec. 25: W½E½SE¼, W½SE¼ (Allotment 2191)	120.00	I-37-Ind-12906 6-11-50	Catherine Sears	All	"	"	"
130	T28N-R51E Sec. 4: NE¼SE¼ (Allotment 2597)	40.00	I-37-Ind-12907 5-11-50	Ben F. Eder	All	"	"	"
131	T29N-R51E Sec. 29: SE½SW¼ (Allotment 2921)	40.00	I-37-Ind-12908 5-11-50	Lontona Trinder Christensen	All	"	"	"
132	T28N-R51E Sec. 4: Lot 5 (Allotment 151)	19.98	I-37-Ind-12909 5-13-50	George Burshla	All	"	"	"
133	T29N-R51E Sec. 20: N½SE¼SE¼, W½NE¼SE¼ (Allotment 3143)	40.00	I-37-Ind-12910 5-11-50	Louise V. K. Burge Lindemann	All	"	"	"
134	T29N-R51E Sec. 20: NE¼SW¼ (Allotment 2816)	40.00	I-37-Ind-12911 5-11-50	Vivian Kollenbaum Patterson	All	"	"	"
135	T29N-R51E Sec. 21: NW¼NE¼ (Allotment 1512)	40.00	I-37-Ind-12912 5-11-50	Sophia Brough Kempfer	All	"	"	"
136	T28N-R51E Sec. 4: NE¼SW¼ (Allotment 2536)	40.00	I-37-Ind-12913 5-15-50	David Roy Archambeau	All	"	"	"
137	T28N-R51E Sec. 3: Lots 1, 2, 3, 4, S½NW¼ (Allotment 2307)	320.20	I-37-Ind-12914 5-11-50	Nellie Eva Jarman de Urena	All	"	"	"
138	T29N-R51E Sec. 29: SE¼NW¼ (Allotment 2921)	40.00	I-37-Ind-12915 5-11-50	Stephen C. Proctor	All	"	"	"
39	T29N-R51E Sec. 29: NW¼SE¼ (Allotment 2330)	40.00	I-37-Ind-12916 6-8-50	Charles Smith	All	"	"	"
40	T29N-R51E Sec. 26: E½ (Allotment 843)	320.00	I-37-Ind-12917 5-13-50	Emmett Vernell Sears Rose M. Sears Jones	80% 20% 100%	"	"	"

MAR02-0787

MAR-787

EXHIBIT "B"—ALLOTTED INDIAN LANDS—Continued

Tract No.	Description of Allotted Indian Lands	No. of Acres	Contract No. & Effective Date of Lease	Owners of Basic 12½% Royalty and Interest in Basic Royalty Owned by Each		Original Lessee of Record	Owners of Overriding Royalty & Percentage	Owners of Net Working Interest and Percentage
141	T29N-R31E Sec. 9: SW¼SE¼ (Allotment 1099)	40.00	I-37-Ind-12918 6-16-50	Edith Youpee Sigrow	All	C. H. Murphy, Jr.	None	C. H. Murphy, Jr. 50% Placid Oil Co. 50%
142	T29N-R31E Sec. 30: SW¼NE¼ (Allotment 2603)	40.00	I-37-Ind-12919 6-8-50	Alice I. Murin	All	"	"	"
143	T29N-R31E Sec. 9: NW¼NW¼ (Allotment 2703)	40.00	I-37-Ind-12920 5-11-50	Edith Abbott Stallings	All	"	"	"
144	T29N-R31E Sec. 5: SW¼SE¼ (Allotment 149)	40.00	I-37-Ind-12921 5-11-50	John W. Jones	All	"	"	"
145	T29N-R31E Sec. 5: SW¼NE¼ (Allotment 150)	40.00	I-37-Ind-12922 5-18-50	John W. Jones	All	"	"	"
146	T29N-R31E Sec. 4: NW¼SW¼ (Allotment 3183)	40.00	I-37-Ind-12923 5-11-50	John W. Jones	All	"	"	"
147	T29N-R31E Sec. 19: N½NE¼ (Allotment 3368)	40.00	I-37-Ind-12924 5-11-50	Genevieve Kellenbaum Brodale	All	"	"	"
148	T29N-R31E Sec. 21: SW¼NW¼ (Allotment 3565)	40.00	I-37-Ind-12925 5-11-50	Willis Helmon McClammy	All	"	"	"
149	T29N-R31E Sec. 27: SW¼SW¼ (Allotment 2750)	40.00	I-37-Ind-12926 5-11-50	Vivian Frances Stanford Britt	All	"	"	"
150	T29N-R31E Sec. 29: NW¼NW¼ (Allotment 3150)	40.00	I-37-Ind-12927 10-16-50	Jeannie A. Culbertson Cooper	All	"	"	"
151	T29N-R31E Sec. 16: SW¼NW¼ (Allotment 223)	40.00	I-37-Ind-12928 5-11-50	Patrick Lee Foote	All	"	"	"
152	T29N-R31E Sec. 13: SE¼NE¼ (Allotment 2184)	40.00	I-37-Ind-12929 5-11-50	Violet Kellenbaum Sola	All	"	"	"
153	T29N-R30E Sec. 24: N½ (Allotment 2958)	160.00	I-37-Ind-12930 5-11-50	Patrick Lee Foote	All	"	"	"
154	T29N-R31E Sec. 5: NE¼SE¼ (Allotment 3050)	40.00	I-37-Ind-12931 5-11-50	Albert Silver, Jr.	All	"	"	"
156	T29N-R31E Sec. 4: Lot 4 (Allotment 3334)	29.96	I-37-Ind-12932 5-11-50	Gladys Owens Medicine	All	"	"	"
155	T29N-R31E Sec. 14: NW¼SE¼ (Allotment 37)	40.00	I-37-Ind-12933 11-24-50	Joseph O. Reddoor Arlene Jane Reddoor Edwin Reddoor Charity R. Wing Mabel S. Reddoor Florence Reddoor, a minor Yvonne Reddoor, a minor David Reddoor, Jr., a minor Timothy Reddoor, a minor	20% 20% 20% 20% 6-2/3% 3-1/3% 3-1/3% 3-1/3% 3-1/3% 100%	"	"	"
157	T29N-R31E Sec. 21: NE¼NW¼ (Allotment 40)	40.00	I-37-Ind-12934 6-14-50	Joseph O. Reddoor Arlene Jane Reddoor Edwin Reddoor Charity R. Wing Mabel S. Reddoor Florence Reddoor, a minor Yvonne Reddoor, a minor David Reddoor, Jr., a minor Timothy Reddoor, a minor	20% 20% 20% 20% 6-2/3% 3-1/3% 3-1/3% 3-1/3% 3-1/3% 100%	"	"	"
158	T29N-R31E Sec. 14: SW¼SE¼ (Allotment 44)	40.00	I-37-Ind-12935 6-14-50	Joseph O. Reddoor Arlene Jane Reddoor Edwin Reddoor Charity R. Wing Mabel S. Reddoor Florence Reddoor, a minor Yvonne Reddoor, a minor David Reddoor, Jr., a minor Timothy Reddoor, a minor	20% 20% 20% 20% 6-2/3% 3-1/3% 3-1/3% 3-1/3% 3-1/3% 100%	"	"	"
159	T29N-R31E Sec. 27: S½SE¼ (Allotments 810 and 811)	80.00	I-37-Ind-12936 7-6-50	Harry Red Bear Ella Alice Belcher Archie Red Tree Eunice H. C. Mustrat	[illegible] [illegible] [illegible] [illegible] 100 %	"	"	"
160	T29N-R31E Sec. 9: NW¼SE¼ (Allotment 1039)	40.00	I-37-Ind-12937 6-16-50	Jennette Whitright Brown	All	"	"	"
161	T29N-R31E Sec. 35: SE¼NE¼ (Allotment 2633)	40.00	I-37-Ind-12938 6-16-50	Mary Denny Lee	All	"	"	"
162	T29N-R31E Sec. 30: E½NE¼SE¼ Sec. 31: W½NW¼NW¼ (Allotment [illegible])	40.00	I-37-Ind-12939 6-16-50	Oneta Irene Burce Michael	All	"	"	"
163	T29N-R31E Sec. 32: W½SE¼, SE¼SE¼ Sec. 33: NE¼ (Allotment 1877)	280.00	I-37-Ind-12940 10-27-50	Julius Youngman Howard Russell Bessie Brown Parks Willis Taylor Amos Brown John Longtree, Jr. John Longtree Clarence Dale Longtree Ira Longtree Alice Marie Longtree Crowe	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] 100.0000%	"	"	"

MAR02-0788

MAR-788

EXHIBIT "2"—ALLOTTED INDIAN LANDS—Continued

Tract No.	Description of Allotted Indian Lands	No. of Acres	Contract No. & Effective Date of Lease	Owners of Basic 12½% Royalty and Interest in Basic Royalty Owned by Each		Original Lessee of Record	Owners of Overriding Royalty & Percentage	Owners of Net Working Interest and Percentage
164	T28N-R31E Sec. 4: SW¼SE¼ (Allotment 1061)	40.00	I-37-Ind-12962 7-18-50	Ethel Whitright Atkinson	All	C. H. Murphy, Jr.	None	C. H. Murphy, Jr. 50% Placid Oil Co. 50%
165	T29N-R31E Sec. 24: NE¼NW¼ (Allotment 2405)	40.00	I-37-Ind-12963 7-12-50	Vina Coulter Wakan	All	"	"	"
166	T29N-R31E Sec. 21: NE¼SE¼ (Allotment 2470)	40.00	I-37-Ind-12964 9-28-50	William Youngman No. 1 Charles Jones, Sr.	50% 50% 100%	"	"	"
167	T29N-R31E Sec. 22: SW¼ Sec. 27: NW¼ (Allotment 803)	320.00	I-37-Ind-12965 7-12-50	Mark Longtree Clarence Dale Longtree Ida Longtree Alice Marie Longtree Crowe	25% 25% 25% 25% 100%	"	"	"
168	T29N-R30E Sec. 12: N½SW¼ (Allotment 2850)	80.00	I-37-Ind-12966 10-12-50	Angeline Tolas The Shield Iron Bear Carmelita Lambert, a minor Magdalene Strongbear Hawk, a minor Charles Hall, Jr. Elizabeth Cantrell Sr. Germaine Elwood Gene Hall, a minor Charlene Lou Hall, a minor Melvin James Hall, a minor Everett Hall, a minor Gladys Rena Hall, a minor Lucille Hall, a minor	66.66666% 8.33333% 8.33333% 8.33333% 1.50730% 1.50730% 1.50730% 1.50730% 1.50730% 1.50730% 1.50730% 100.0000%	"	"	"
169	T29N-R31E Sec. 22: S½NW¼, NW¼NW¼ (Allotment 834)	120.00	I-37-Ind-12967 7-12-50	John Longtree, Jr. Mark Longtree Clarence Dale Longtree Ida Longtree Alice Marie Longtree Crowe	33-1/3% 16-2/3% 16-2/3% 16-2/3% 16-2/3% 100 %	"	"	"
170	T29N-R31E Sec. 14: NE¼ (Allotment 511)	160.00	I-37-Ind-12968 7-12-50	James Seeds	All	"	"	"
171	T28N-R32E Sec. 6: NE¼ (Allotment 691)	160.12 See Note 1	I-37-Ind-12969	Joshua Spotted Dog Agnes Spotted Elk John Keon Louisa Kalsenhaum Mabel C. Dupree Kate Winn Simons Margaret W. Pickett Herman K. Winn Lewis A. Winn Paul Vertlen Charles Kicker Theodore Bicker, Sr. Hazel Moll Cuckins Ida Moll Keiser Winona Moll Hutchinson Mary Pilen Moll Williams Gordon Russell Moll Harry Moll	16-6/99% 16-6/99% 13-3/99% 13-3/99% 13-3/99% 2-2/99% 2-2/99% 2-2/99% 2-2/99% 4-4/99% 1-6/99% 1-6/99% 1-6/99% 1-6/99% 1-6/99% 1-6/99% 1-6/99% 100 %	"	"	"
172	T28N-R31E Sec. 9: S½NW¼ (Allotment 830)	40.00	I-37-Ind-12970 7-18-50	Rose Pentaine Shofley David Roy Archambeau, Jr. David Roy Archambeau, Sr.	33-1/3% 33-1/3% 33-1/3% 100 %			
173	T28N-R32E Sec. 30: S½ (Allotment 864)	160.00	I-37-Ind-12971 9-26-50	Charles Shields Jeannette C. Bartlett Benjamin Carrier Rose C. Limtons Beverly C. Calvin	50 % 12-1/2% 12-1/2% 12-1/2% 12-1/2% 100 %		"	"
174	T29N-R30E Sec. 36: NE¼SE¼ (Allotment 2008)	40.00 See Note 2	I-37-Ind-12974 11-10-50 Not Leased	Eva Denny White William J. Denny George Denny Mark Denny Mary Denny Lee Amos Denny See Note 2	11.11111% 11.11111% 11.11111% 11.11111% 11.11111% 11.11111% 33.33333% 100.0000%	" Not leased	" Not leased	C. H. Murphy, Jr. 33-1/3% Placid Oil Co. 33-1/3% (Lessee owners 2/3 working interest.) Not leased
175	T29N-R31E Sec. 21: S½SE¼ Sec. 28: S½SW¼ N2½SW¼, SE¼NW¼ (Allotment 3424)	240.00	I-37-Ind-12979 9-25-50	Betty Lou Eder Welch	All	C. H. Murphy, Jr.	None	C. H. Murphy, Jr. 50% Placid Oil Co. 50%
176	T28N-R32E Sec. 8: FW¼, S½NW¼, Lots 3, 4 (Allotment 792)	320.02	I-37-Ind-13000 10-27-50	James Red Fish	All	"	"	"
177	T28N-R31E Sec. 4: SE¼SW¼ (Allotment 2444)	40.00	I-37-Ind-13001 10-27-50	Rose Pentaine Shofley David Roy Archambeau, Jr. David Roy Archambeau, Sr.	16-2/3% 16-2/3% 66-2/3% 100 %	"	"	"
178	T29N-R31E Sec. 9: NE¼NW¼ (Allotment 2373)	40.00	I-37-Ind-13002	David Roy Archambeau, Sr.	All	"	"	"
179	T29N-R30E Sec. 36: NE¼NE¼ (Allotment 2679)	40.00 See Note 3	I-37-Ind-13004 1-10-51 Not Leased	Eva Denny White William J. Denny George Denny Mark Denny Mary Denny Lee Amos Denny See Note 3	15.87302% 15.87302% 15.87302% 15.87302% 15.87301% 15.87301% 4.76190% 100.0000%	" Not leased	" Not leased	C. H. Murphy, Jr. 47.61905% Placid Oil Co. 47.61905% (Lessee owners 2/3 working interest) Not leased

MAR02-0789

MAR-789

EXHIBIT "B"—ALLOTTED INDIAN LANDS—Continued

Tract No.	Description of Allotted Indian Lands	No. of Acres	Contract No. & Effective Date of Lease	Owners of Basic 12½% Royalty and Interest in Basic Royalty Owned by Each		Original Lessee of Record	Owners of Overriding Royalty & Percentage	Owners of Net Working Interest and Percentage
180	T29N-R5E Sec. 6: SW¼ (Allotment 1029)	160.00	I-37-Ind-13025	Joshua White Feather Richard Benedict Lucy White Feather Pear Bear Lillian Bighy Jennie Walking Eagle Russell Beverly Walking Eagle Buck Elk Howard Chewspine Willard Drum Alice Smith Lester Chester Lester Ada Lester Ralph Walking Eagle, Jr. Regina Streaked Eye Brave Bull, Jr. Alice Black Duck Lester	6.66667% 1.66667% 6.66667% 1.66667% 44.61481% 10.85470% 4.07407% 2.71605% 1.11111% .74074% .74074% 10.85470% 6.66667% .74074% 100.00000%	C. H. Murphy, Jr.	None	C. H. Murphy, Jr. 50% Placid Oil Co. 50%
181	T26N-R5E Sec. 9: NE¼SE¼ (Allotment 1038)	40.00	Not Leased	See Note 4		Not leased See Note 4	Not leased See Note 4	C. H. Murphy, Jr. 50% Placid Oil Co. 50% See Note 4
182	T29N-R5E Sec. 26: N½S½NW¼	40.00	Not Leased	See Note 4		Not leased See Note 4	Not leased See Note 4	"
183	T29N-R5E Sec. 26: S½S½NW¼, NW¼SW¼ Sec. 27: N½SE¼ (Allotment 1935)	160.00	I-37-Ind-12757	Winona Simons Shanley	All	C. H. Murphy, Jr.	None	C. H. Murphy, Jr. 50% Placid Oil Co. 50%

183 Allotted Indian Tracts: 12,718.26 Acres, or 54.022319% of Unit Area (See Notes 1, 2 and 3)

NOTE 1: Restriction on an undivided 2/43 interest in Tract 171 as Allotted Indian lands was removed by descent of ownership to non-Indians. However, for purposes of computing total Allotted Indian lands and percentage of Unit area, Tract 171 has been treated as though it were entirely restricted Allotted Indian lands.

NOTE 2: Unverified information as to remaining ownership of basic 12½% royalty:

Frank Denny (non-Indian)	11.11111%
Lootie S. Hutchinson, also known as Mrs. T. P. Hutchinson (non-Indian)	11.11111%
Mabel Atchinson (non-Indian)	11.11111%
	33.33333%

Restriction on an undivided 1/3 interest in Tract 174 as Allotted Indian lands was removed by descent of ownership to non-Indians. However, for purposes of computing total Allotted Indian lands and percentage of Unit area, Tract 174 has been treated as though it were entirely restricted Allotted Indian lands.

NOTE 3: Unverified information as to remaining ownership of basic 12½% royalty:

Frank Denny (non-Indian)	1.58730%
Lootie S. Hutchinson, also known as Mrs. T. P. Hutchinson (non-Indian)	1.58730%
Mabel Atchinson (non-Indian)	1.58730%
	4.76190%

Restriction on an undivided 40/43 interest in Tract 179 as Allotted Indian lands was removed by descent of ownership to non-Indians. However, for purposes of computing total Allotted Indian lands and percentage of Unit area, Tract 179 has been treated as though it were entirely restricted Allotted Indian lands.

NOTE 4: Basic 12½% royalty in Tracts 181 and 182 is owned by heirs of Lucille Sibbins Whitright Aserro, deceased, whose heirship has not yet been ascertained or administratively determined by the Office of Indian Affairs. Upon determination of heirship, and execution of leases by heirs in favor of C. H. Murphy, Jr. (pursuant to terms of Allotted Indian leases sale held at Poplar, Montana, on December 10, 1969), net working interest will be owned as stated above, with no overriding royalty.

MAR02-0790

MAR-790

EXHIBIT "B"

SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND GAS INTEREST IN ALL LAND IN THE EAST POPLAR UNIT AREA, ROOSEVELT COUNTY, MONTANA

Continued

TRIBAL INDIAN LANDS

Tract No.	Description of Tribal Indian Lands	No. of Acres	Contract No. & Effective Date of Lease	Owners of Basic 12½% Royalty and Interest in Basic Royalty Owned by Each	Original Lessee of Record	Owners of Overriding Royalty and Percentage	Owners of Net Working Interest and Percentage
184	T29N-R51E Sec. 21: SW¼SW¼, SE¼NE¼, SE¼SW¼, NW¼SE¼, NE¼SW¼, NE¼SE¼, NE¼NE¼ Sec. 28: NW¼SW¼, SW¼NW¼, NW¼NW¼ Sec. 29: NE¼SE¼	440.00	I-37-Ind-13045 1-11-51	U.S.A., in trust for the Assiniboine-Sioux Tribes of Indians of the Fort Peck Indian Reservation.	C. H. Murphy, Jr.	None	C. H. Murphy, Jr. 50% Placid Oil Co. 50%
185	T29N-R51E Sec. 29: NE¼NE¼	40.00	I-37-Ind-13046 1-8-51	"	"	"	"
186	T28N-R52E Sec. 6: Lots 3,4,5 SE¼NW¼	150.52	I-37-Ind-13047 12-21-50	"	"	"	"
187	T29N-R50E Sec. 14: E½NE¼, SW¼NE¼, SE¼	200.00	I-37-Ind-13048 1-8-51	"	"	"	"
188	T29N-R51E Sec. 20: NE¼NW¼	40.00	I-37-Ind-13049 1-9-51	"	"	"	"
189	T28N-R51E Sec. 4: SW¼NE¼, S½NE¼NW¼	60.00	I-37-Ind-13050 1-8-51	"	"	"	"
190	T29N-R51E Sec. 16: SW¼SW¼	40.00	I-37-Ind-13051 1-8-51	"	"	"	"
191	T29N-R51E Sec. 19: SE¼SW¼, E½NW¼, W½NE¼	200.00	I-37-Ind-13052 1-9-51	"	"	"	"
192	T29N-R51E Sec. 31: SE¼NW¼	40.00	I-37-Ind-13053 1-9-51	"	"	"	"
193	T29N-R51E Sec. 31: SW¼SW¼	40.00	I-37-Ind-13054 1-10-51	"	"	"	"
194	T29N-R51E Sec. 32: N½NE¼SW¼	20.00	I-37-Ind-13055 1-10-51	"	"	"	"
195	T29N-R50E Sec. 12: NE¼SE¼ T29N-R51E Sec. 7: Lot 3, NE¼SW¼	119.19	I-37-Ind-13056 1-10-51	"	"	"	"
196	T28N-R51E Sec. 8: NW¼NW¼SE¼	10.00	I-37-Ind-13057 1-10-51	"	"	"	"
197	T29N-R51E Sec. 30: Lot 1	39.69	I-37-Ind-13058 1-10-51	"	"	"	"
198	T29N-R51E Sec. 5: W½NW¼NE¼	20.00		"	"	"	"
199	T29N-R51E Sec. 26: SW¼SW¼, Sec. 27: SW¼, S½SE¼	320.00		"	"	"	"
200	T29N-R51E Sec. 34: NW¼SE¼	40.00		"	"	"	"
201	T29N-R51E Sec. 20: S½SE¼SE¼	20.00		"	"	"	"
202	T29N-R51E Sec. 21: E½NW¼SW¼	20.00		"	"	"	"
203	T29N-R51E Sec. 31: Lot 2	39.92		"	"	"	"
204	T29N-R50E Sec. 36: NW¼NE¼	40.00	I-37-Ind-13063 2-28-51	"	"	"	"
205	T29N-R51E Sec. 7: N½SE¼	80.00	I-37-Ind-13061 1-18-51	"	"	"	"
206	T29N-R51E Sec. 19: Lots 1,2,3,4, NE¼SW¼, NW¼SE¼	238.46		"	"	"	"
207	T29N-R50E Sec. 11: SE¼SE¼ Sec. 12: S½SW¼	120.00		"	"	"	"
208	T28N-R51E Sec. 8: S½SE¼ Sec. 9: SW¼SW¼	120.00	I-37-Ind-13044 1-12-51	"	"	"	"

23 Tribal Indian Tracts—2,537.84 acres or 7.43299% of Unit Area.

MAR02-0791

MAR-791

EXHIBIT "B"

SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND GAS INTEREST IN ALL LAND IN THE EAST POPLAR UNIT AREA, ROOSEVELT COUNTY, MONTANA

Continued

FEDERAL ACQUIRED LANDS

Tract No.	Description of Federal Acquired Lands	No. of Acres	Serial No. & Effective Date of Lease	Owners of Basic 12½% Royalty and Interest in Basic Owned by Each	Royalty	Original Lessee of Record or Applicant	Owners of Overriding Royalty and Percentage	Owners of Net Working Interest and Percentage
209	T28N-R51E Sec. 3; SE¼ Sec. 4; SW¼NW¼ Sec. 5; SE¼SE¼ Sec. 9; NE¼SW¼ Sec. 11; S½ Sec. 12; All Sec. 13; N½ Sec. 13; NE¼, SE¼NW¼, S½NE¼NW¼ Sec. 14; SW¼NE¼ Sec. 26; NW¼ Sec. 27; N½ T29N-R51E Sec. 30; NE¼SW¼	2340.00	BLM-A 012244 8-1-50	United States of America	All	Esther S. Schmidt	Esther S. Schmidt 1% See Note 1	The Carter Oil Co. 50% Phillips Petroleum Co. 50% See Note 1
210	T28N-R51E Sec. 23; All Sec. 24; S½N½ Sec. 25; S½ T28N-R52E Sec. 12; Lots 3, 4, E½SW¼, SE¼ Sec. 19; Lots 1, 2, E½NW¼, NE¼	1743.99	BLM-A 012245 10-1-49	United States of America	All	Henry H. Forsman	Henry H. Forsman 1%	The Carter Oil Co. 50% Phillips Petroleum Co. 50%
211	T29N-R50E Sec. 13; E½ Sec. 24; All	960.00	BLM-A 012246 7-1-50	United States of America	All	Rockwood Brown	Rockwood Brown 1% See Note 2	The Carter Oil Co. 50% Phillips Petroleum Co. 50% See Note 2
212	T29N-R50E Sec. 26; E½SE¼	80.00	BLM-A 015939 7-1-50	United States of America	All	Charlotte D. Edmonson	Charlotte D. Edmonson ½ of 1% See Note 3	The Carter Oil Co. 50% Phillips Petroleum Co. 50% See Note 3
213	T28N-R51E Sec. 1; Lot 1 T29N-R51E Sec. 34; W½ Sec. 35; NW¼	520.02	BLM-A 015960 See Note 4	United States of America	All	Guy R. Campbell, Jr.	Guy R. Campbell, Jr. ½ of 1% See Note 4	The Carter Oil Co. 50% Phillips Petroleum Co. 50% See Note 4

5 Federal Acquired Tracts—3,644.01 acres or 16.33057% of Unit Area

NOTE 1: The Carter Oil Company holds option, dated December 13, 1948, to acquire assignment within two years after issuance of lease, and, upon effectuation of the unit, will exercise the same, so as to create overriding royalty ownership and net working interest ownership as above stated in Tract 209.

NOTE 2: The Carter Oil Company holds option, dated December 13, 1948, to acquire assignment within two years after issuance of lease, and, upon effectuation of the unit, will exercise the same, so as to create overriding royalty ownership and net working interest ownership as above stated in Tract 211.

NOTE 3: Phillips Petroleum company holds option, dated February 15, 1949, to acquire assignment within two years after issuance of lease, and, upon effectuation of the unit, will exercise the same, so as to create overriding royalty ownership and net working interest ownership as above stated in Tract 212.

NOTE 4: Application was filed August 12, 1948, but lease has not yet issued. Phillips Petroleum Company holds option, dated August 16, 1948, to acquire assignment within two years after issuance of lease, and following lease issuance and effectuation of the unit, will exercise the same, so as to create overriding royalty ownership and net working interest ownership as above stated in Tract 213.

MAR02-0792

MAR-792

EXHIBIT "B"

SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND GAS INTEREST IN ALL LAND IN THE EAST POPLAR UNIT AREA, ROOSEVELT COUNTY, MONTANA

Continued

FEE LANDS

Tract No.	Description of Fee Lands	No. of Acres	Expiration Date of Lease	Owners of Basic 12½% Royalty and Interest in Basic Royalty Owned by Each		Original Lessee of Record	Owners of Overriding Royalty and Percentage	Oil Lessee of Record and Working Interest Percentage	
214	T29N-R51E Sec. 2: W½	320.23	12-11-52	Ben Zimmerman & Edith May Zimmerman Allen Zimmerman & Ella M. Zimmerman Jos. Comuc A. V. Appelgren M. E. Lutscher P. P. Luthers Merle Nelson or Effie M. Nelson, husband & wife	11½% BR½% 2 % 2 % 2 % 2 % 2 % 100%	Mesaverde Oil & Gas Co.	Maverick Oil & Gas Co. 2½%	The Carter Oil Co. Phillips Petroleum Co.	[illegible] [illegible]
215	T28N-R51E Sec. 21: S½SE¼	81.00	12-10-59	J. Allen Zimmerman & Ella Zimmerman, his wife Alex Verdon & Mary Verdon, his wife Roosevelt County	25% 25% 50% 100%	C. H. Murphy, Jr.	None	C. H. Murphy, Jr. Placid Oil Co. The Carter Oil Co. Phillips Petroleum Co.	25% 25% 25% 25%
216	T28N-R51E Sec. 3: S½SW¼	80.00	10-29-51	Florence Marie Bess Rorb	All	The Carter Oil Co.	None	The Carter Oil Co. Phillips Petroleum Co.	50% 50%
217	T28N-R51E Sec. 3: SE¼NE¼	40.00	1-13-55	Fenner Livestock Company; a corporation	All	"	"	The Carter Oil Co. Phillips Petroleum Co.	50% 50%
218	T28N-R51E Sec. 5: NW¼SE¼	40.00	3-16-56	John M. Liddle & William H. Hartley	All	The Carter Oil Co.	None	The Carter Oil Co. Phillips Petroleum Co.	50% 50%
219	T28N-R51E Sec. 8: N½S½NE¼NE¼, N½N½SE¼NE¼	20.00	12-14-59	Robert J. O'Connor & Charlene Fenner O'Connor, his wife	All	C. H. Murphy, Jr.	"	C. H. Murphy, Jr. Placid Oil Co.	50% 50%
220	T28N-R51E Sec. 6: N½NE¼NE¼, N½S½NE¼NE¼	30.00	12-13-59	Mrs. Marvin Reibhoff Roosevelt County, Montana	See Note 1 See Note 1	C. H. Murphy, Jr.	"	C. H. Murphy, Jr. Placid Oil Co. The Carter Oil Co. Phillips Petroleum Co.	25% 25% 25% 25%
			3-10-52	Frank Abbott & Louise D. Abbott	See Note 1	The Carter Oil Co.	"	C. H. Murphy, Jr. Placid Oil Co. The Carter Oil Co. Phillips Petroleum Co.	25% 25% 25% 25%
221	T28N-R51E Sec. 8: NW¼NE¼	40.00	1-23-59	See Note 2	All	General Petroleum Corp.	"	General Pet. Corp.	All
222	T28N-R51E Sec. 8: SW¼NE¼	40.00	1-21-59	See Note 3	All	General Petroleum Corp.	"	General Pet. Corp.	All
223	T28N-R51E Sec. 9: NW¼NE¼ Sec. 10: SE¼, E½SW¼	200.00	2-13-52	Fred J. Reynolds & Mary F. Reynolds, his wife Roosevelt County, Mont.	50% 50% 100%	The Carter Oil Co.	"	The Carter Oil Co. Phillips Petroleum Co.	50% 50%
224	T29N-R51E Sec. 9: SE¼SE¼	40.00	12-10-57	Isaac Hawley & Imelda M. Hawley, husband & wife	All	C. H. Murphy, Jr.	"	C. H. Murphy, Jr. Placid Oil Co.	50% 50%
225	T29N-R51E Sec. 10: NE¼	160.00	Not leased	See Note 4		Not leased	Not leased	Not leased	
226	T29N-R51E Sec. 11: N½	320.00	9-5-51	Fred J. Reynolds & Mary F. Reynolds, his wife Roosevelt County, Mont.	50% 50% 100%	Hunt Oil Co.	Hunt Oil Co. 12½%	C. H. Murphy, Jr. Placid Oil Co.	50% 50%
227	T29N-R51E Sec. 16: N½NE¼	80.00	3-31-59	Sec. 16: NW¼NE¼ Alice West Danielsen Sec. 16: NE¼NE¼ Alice West Danielsen Roosevelt County, Montana	33 1/3% 16-2/3% 16-2/3% 33 1/3%	The Carter Oil Co.	None	C. H. Murphy, Jr. Placid Oil Co. The Carter Oil Co. Phillips Petroleum Co. (Lease covers 1/3 working interest)	8-1/3% 8-1/3% 8-1/3% 8-1/3%
			12-15-59	Sec. 16: NW¼NE¼ Theodor L. Danielsen Vivian W. Daniels, also known as Vivian Williams Sec. 16: NE¼NE¼ Theodor L. Danielsen Vivian W. Daniels, also known as Vivian Williams Roosevelt County, Montana	33 1/3% 33 1/3% 65-2/3% 16-2/3% 16-2/3% 33 1/3% 66-2/3%	C. H. Murphy, Jr.	None	C. H. Murphy, Jr. Placid Oil Co. The Carter Oil Co. Phillips Petroleum Co. (Lease covers 2/3 working interest)	16-2/3% 16-2/3% 16-2/3% 16-2/3%
228	T29N-R51E Sec. 16: NE¼NW¼	40.00	1-16-59	Viggo Danielsen	1%	The Carter Oil Co.	None	The Carter Oil Co. Phillips Petroleum Co. (Lease covers 1% working interest)	½ of 1% ½ of 1%
			Not leased	See Note 5	99% 100%	Not leased	Not leased	Not leased	
229	T29N-R51E Sec. 16: SE¼NW¼	40.00	Not leased	See Note 6		Not leased	Not leased	Not leased	
230	T29N-R51E Sec. 21: E½SE¼	80.00	1-22-59	Adolph C. Hibl & Martha M. Hibl, his wife	All	The Carter Oil Co.	None	The Carter Oil Co. Phillips Petroleum Co.	50% 50%
231	T29N-R51E Sec. 22: SW¼	160.00	3-16-54	Carl Sieve	All	Maverick Oil & Gas Co.	Maverick Oil & Gas Co. 2½%	The Carter Oil Co. Phillips Petroleum Co.	50% 50%
232	T29N-R51E Sec. 22: N½SE¼	80.00	9-5-51	Carl Sieve Roosevelt County, Mont.	50% 50% 100%	Hunt Oil Co.	Hunt Oil Co. 12½%	C. H. Murphy, Jr. Placid Oil Co.	50% 50%
233	T29N-R51E Sec. 24: N½N½	160.00	9-5-51	James O. Connor Roosevelt County, Mont.	50% 50% 100%	Hunt Oil Co.	Hunt Oil Co. 12½%	C. H. Murphy, Jr. Placid Oil Co.	50% 50%

MAR-793

MAR02-0793

EXHIBIT "B"—FEE LANDS—Continued

Tract No.	Description of Fee Lands	No. of Acres	Exploration Date of Lease	Owners of Basic 12½% Royalty and Interest in Basic Royalty Owned by each		Original Lessee of Record	Owners of Overriding Royalty and Percentage	Owners of Net Working Interest and Percentage	
232	T29N-R31E Sec. 26: SW¼	160.00	1-17-59	Kane S. Catlin	All	The Carter Oil Co.	None	The Carter Oil Co. Phillips Petroleum Co.	50% 50%
233	T29N-R31E Sec. 27: SW¼	160.00	5-7-54	Earl C. Lockman & Frances Lockman, his wife	All	C. F. Lundgren	C. F. Lundgren 3%	C. H. Murphy, Jr. Placid Oil Co. The Carter Oil Co. Phillips Petroleum Co.	25% 25% 25% 25%
236	T29N-R31E Sec. 27: SE¼	160.00	5-7-54	Earl C. Lockman & Frances Lockman, his wife	All	C. F. Lundgren	None	C. F. Lundgren	All
237	T29N-R31E Sec. 28: NE¼	160.00	1-21-59	Carl Blore	50%	The Carter Oil Co.	None	The Carter Oil Co. Phillips Petroleum Co. (Lease covers ½ working interest)	25% 25%
			3-24-54	E. J. Lander & Co.	50% 100%	The Carter Oil Co.	None	The Carter Oil Co. Phillips Petroleum Co. (Lease covers ½ working interest)	25% 25%
238	T29N-R31E Sec. 33: NE¼, NE¼SE¼ Sec. 34: W½W½NW¼	200.00	Not leased	See Note 7		Not leased	Not leased	Not leased	
239	T29N-R32E Sec. 18: NE¼	160.00	5-7-52	Chris Jensen	All	The Carter Oil Co.	None	The Carter Oil Co. Phillips Petroleum Co.	50% 50%
240	T29N-R32E Sec. 19: S½	312.30	1-17-59	Emily H. Morse	All	The Carter Oil Co.	None	The Carter Oil Co. Phillips Petroleum Co.	50% 50%
241	T29N-R32E Sec. 20: SW¼	160.00	Not leased	See Note 8		Not leased	Not leased	Not leased	
242	T29N-R32E Sec. 30: NE¼ T29N-R31E Sec. 13: S½	400.00	1-18-59	John D. O'Connor	All	The Carter Oil Co.	None	The Carter Oil Co. Phillips Petroleum Co.	50% 50%
243	T29N-R30E Sec. 26: NE¼	160.00	10-27-51	Joseph Dolezilek	All	The Carter Oil Co.	None	The Carter Oil Co. Phillips Petroleum Co.	50% 50%
244	T29N-R31E Sec. 16: SW¼NW¼, SE¼SW¼ Sec. 17: NE¼NE¼, S½NE¼, N½SE¼, SW¼SE¼, SW¼NW¼, NE¼NW¼, N½SW¼ Sec. 20: NE¼NW¼, SW¼NE¼, E½NE¼, SE¼SW¼, SW¼SE¼ Sec. 21: W½NW¼, SE¼NW¼, W½NE¼ Sec. 27: W½SW¼ Sec. 30: SE¼SE¼ Sec. 31: E½NE¼ Sec. 32: W½NW¼	1160.00	10-22-54	Sec. 16: SW¼NW¼, SE¼SW¼ Sec. 17: NE¼NE¼, S½NE¼, N½SE¼, SW¼SE¼, SW¼NW¼, NE¼NW¼, N½SW¼ Sec. 20: NE¼NW¼, SW¼NE¼, E½NE¼ Sec. 21: W½NW¼, SE¼NW¼, W½NE¼ Ed Kiles & Martha Kiles, his wife William M. Johnson & Henry H. Johnson	80% 20% 100%	The Carter Oil Co.	None	The Carter Oil Co. Phillips Petroleum Co.	50% 50%
				Sec. 20: SE¼SW¼, SW¼SE¼ Ed. Kiles & Martha Kiles, his wife William M. Johnson & Henry H. Johnson Joe Conrad Gordon Montgomery	60% 20% 8% 4% 100%				
				Sec. 30: SE¼SE¼ Sec. 31: E½NE¼ Sec. 32: W½NW¼ Ed Kiles & Martha Kiles his wife William M. Johnson & Henry H. Johnson J. W. McKee & Emily L. McKee M. B. Listerud A. V. Appelgren C. F. Swedberg	60% 20% 4% 2-2/3% 2-2/3% 2-2/3% 100%				
				Sec. 29: W½SW¼ Ed. Kiles & Martha Kiles, his wife William M. Johnson & Henry H. Johnson M. B. Listerud A. V. Appelgren C. F. Swedberg J. W. McKee & Emily L. McKee	60% 20% 2-2/3% 2-2/3% 2-2/3% 4% 100%				
245	T29N-R31E Sec. 17: SW¼SW¼	40.00	10-22-51	John M. Helmer	All	The Carter Oil Co.	None	The Carter Oil Co. Phillips Petroleum Co.	50% 50%
246	T29N-R31E Sec. 20: SE¼NW¼	40.00	10-7-54	Lillian Helmer	All	The Carter Oil Co.	None	The Carter Oil Co. Phillips Petroleum Co.	50% 50%
247	T29N-R31E Sec. 20: SW¼NW¼	40.00	3-6-52	Leo Combs C. R. Bennett	25% 75% 100%	The Carter Oil Co.	None	The Carter Oil Co. Phillips Petroleum Co.	50% 50%
248	T29N-R31E Sec. 20: NW¼SE¼	40.00	10-22-51	Leo Combs Roosevelt County, Mont.	25% 25%	The Carter Oil Co.	None	The Carter Oil Co. Phillips Petroleum Co. (Lease covers ½ working interest)	25% 25%
			1-19-59	L. R. Graham Roosevelt County, Mont.	25% 25% 100%	The Carter Oil Co	None	The Carter Oil Co. Phillips Petroleum Co. (Lease covers ½ working interest)	25% 25%
249	T29N-R31E Sec. 21: E½SW¼, S½SE¼, NW¼SE¼	200.00	8-27-51	Fred Frelich & Mary Frelich James M. Haughey	81-1/4% 18-3/4% 100 %	Hunt Oil Co.	Hunt Oil Co. 12½%	C. H. Murphy, Jr. Placid Oil Co.	50% 50%
250	T29N-R31E Sec. 26: NE¼	160.00	8-14-52	Frank P. Sherburne	All	The Carter Oil Co.	None	The Carter Oil Co. Phillips Petroleum Co.	50% 50%
251	T29N-R31E Sec. 28: SE¼	160.00	1-27-59	Glenn W. Zimmerman	All	The Carter Oil Co.	None	The Carter Oil Co. Phillips Petroleum Co.	50% 50%

MAR-794

MAR02-0794

EXHIBIT "B"—FEE LANDS—Continued

Tract No.	Description of Fee Lands	No. of Acres	Expiration Date of Lease	Owners of Basic 12½% Royalty and Interest in Those Owned by Each	Royalty	Original Lessee of Record	Owners of Overriding Royalty and Percentage	Owners of Net Working Interest and Percentage	
222	T29N-R57E Sec. 30: SE¼SW¼	40.00	9-5-51	Sec. 30: W½SE¼SW¼		Hunt Oil Co.	Hunt Oil Co. 12½%	C. H. Murphy, Jr.	50%
				Leo Combs	12%			Placid Oil Co.	50%
				H. F. Lowe	8%				
				M. B. Listerud	16%				
				F. E. Burkart & A. V. Appelgren	12%				
				J. H. Frerich	20%				
				A. V. Appelgren	4%				
				Joe Cormud	20%				
				Paul Verdon	8%				
					100%				
				Sec. 30: E½SE¼SW¼					
				Leo Combs	12%				
				J. H. Frerich	28%				
				H. F. Lowe	8%				
				M. B. Listerud	16%				
				F. E. Burkart & A. V. Appelgren	4%				
				Joe Cormud	20%				
				A. V. Appelgren	4%				
				Paul Verdon	8%				
					100%				
223	T29N-R57E Sec. 31: E½SE¼, NE¼SW¼	120.00	9-5-51	Paul Verdon	17%	Hunt Oil Co.	Hunt Oil Co. 12½%	C. H. Murphy, Jr.	50%
				A. V. Appelgren	4%			Placid Oil Co.	50%
				M. E. Listerud	4%				
				W. B. Walker	25%				
				Roosevelt County, Mont.	50%				
					100%				
224	T29N-R57E Sec. 34: E½ Sec. 35: E½	640.00	1-27-54	Sec. 34: E½		The Carter Oil Co.	None	The Carter Oil Co.	50%
				J. H. Frerich	73-1/4%			Phillips Petroleum Co.	50%
				James M. Haughey	18-3/4%				
				E. O. Knapp	8 %				
					100 %				
			1-19-54	Sec. 35: E½		"	"	See Note 9	
				J. H. Frerich	73 %				
				James M. Haughey	18-3/4%				
				Poplar Lumber & Implement Company	6-1/4%				
					100 %				
225	T29N-R57E Sec. 35: SW¼	160.00	3-16-54	Joe H. Frerich	40-5/8%	Maverick Oil & Gas Co.	Maverick Oil & Gas Co. 2½%	The Carter Oil Co.	50%
				Howard Alger & Maude Alger	40-5/8%			Phillips Petroleum Co.	50%
				James M. Haughey	18-3/4%				
					100 %				
226	T29N-R57E Sec. 1: NW¼	160.00	1-19-57	Fred Frerich	81-1/4%	The Carter Oil Co.	None	The Carter Oil Co.	50%
				James M. Haughey	18-3/4%			Phillips Petroleum Co.	50%
					100 %				

45 Fee Tracts—7,342.63 acres, or 21.31250% of unit area (See Note 10)

NOTE 1: Ownership of basic 12½% royalty in Tract 220 is in question as between the following claimants:

Mrs. Marvin Reinhart 50%
Roosevelt County, Montana 50%
Frank Abbott & Louise D. Abbott 100%

NOTE 2: Unverified information as to ownership of basic 12½% royalty in Tract 221:

James J. O'Connor and Pauline O'Connor ..... All

NOTE 3: Unverified information as to ownership of basic 12½% royalty in Tract 222:

Robert J. O'Connor ..... All

NOTE 4: Unverified information as to ownership of basic 12½% royalty in Tract 223:

A. E. Kelsey & Cecilia Grace Kelsey 50%
Albert Huber & Karla Huber 47%
Fred J. Reynolds & Mary F. Reynolds 1%
100%

NOTE 5: Unverified information as to remaining 97% ownership of basic 12½% royalty in Tract 223:

A. E. Kelsey & Cecilia Grace Kelsey 50%
Albert Huber 47%
97%

NOTE 6: Unverified information as to ownership of basic 12½% royalty in Tract 229:

Viggo Danielsen 1%
A. E. Kelsey & Cecilia Grace Kelsey 50%
Albert Huber 49%
100%

NOTE 7: Unverified information as to ownership of basic 12½% royalty in Tract 233:

E. E. Petch ..... All

NOTE 8: Unverified information as to ownership of basic 12½% royalty in Tract 241:

Alice Hall Gregory ..... All

NOTE 9: Lease, expiring January 19, 1954, from Poplar Lumber & Investment Company covers 50% working interest in E½ 35-29N-51E only; not working interest in all of Tract 234 is owned as stated above.

NOTE 10: These totals exclude unverified interests in Tracts 171, 174 and 179 of Allotted Indian lands. For further description of those interests, see Notes, 1, 2 and 3 in Allotted Indian lands portion of this Exhibit "B".

EXHIBIT "B"—RECAPITULATION

183 Allotted Indian tracts	18,716.26 acres, or	54.8[illegible]19% of unit area.
23 Tribal Indian tracts	2,527.84 acres, or	7.4[illegible]% of unit area.
5 Federal Acquired tracts	5,644.01 acres, or	16.5[illegible]% of unit area.
45 Fee Tracts	7,342.63 acres, or	21.31250% of unit area.
256 Tracts:	34,142.14 acres, or	100.00000% of unit area.

NOTE: The above Exhibit "B" is believed to be an accurate statement of the ownership of oil and gas interests in the East Poplar Unit Area, and, except where unverified information is indicated, is based on the following:

1. In the case of Allotted Indian and Tribal Indian lands, check of records in the office of the Fort Peck Indian Agency, Poplar, Montana, and the Office of Indian Affairs, Washington, D.C., made in 1950 and 1951.

2. In the case of Federal Acquired lands, check of records of Roosevelt County, Montana, records in the Bureau of Land Management, Washington, D.C., and records in the office of the Department of Agriculture, Washington, D.C., made in 1950 and 1951.

3. In the case of Fee lands, examination of abstracts, certified to various dates in 1950 and 1951, and examined by licensed abstractors from the records of Roosevelt County, Montana.

Record transfers of interest occurring since the respective dates of checks of records or examination of abstracts are, of course, not referred to in this Exhibit "B".

MAR02-0795

MAR-795

CERTIFICATION—DETERMINATION

Pursuant to the authority vested in the Secretary of the Interior under the Allotted Land Mineral Leasing Act of March 3, 1909, (35 Stat. 783, 25 U.S.C. Sec. 396) and the Tribal Land Mineral Leasing Act approved May 11, 1938 (52 Stat. 347, 25 U.S.C. 396A, et seq.), as to certain restricted Tribal and Allotted Indian lands and delegated to the Commissioner of Indian Affairs by Departmental Order 2508 of January 11, 1949 (14 Fed. Reg. 258-260).

Pursuant to the authority vested in the Secretary of the Interior as to Federal lands, the Act of February 25, 1920 (41 Stat. 437, 30 U.S.C. Sec. 181) as amended by the Act of August 8, 1946 (60 Stat. 950, 30 U.S.C. 181) and the Act of August 7, 1947 (61 Stat. 913), delegated to the Director of the United States Geological Survey by Departmental Order No. 2365 dated October 8, 1947, 12 F.R. 6784, 43 C.F.R. Sec. 4.611, we do hereby:

A. Approve the attached agreement for the development and operation of the East Poplar Unit Area, Roosevelt County, State of Montana, dated the 2nd day of April, 1951, and duly recorded in Book_____at page_____ of the_____records in the office of the Clerk and Recorder of Roosevelt County, Montana;

B. Certify and determine that the unit plan of development and operation set forth in the attached agreement is necessary and advisable in the public interest and is for the purpose of more properly conserving the natural resources of the unit area;

C. Certify and determine that the drilling, producing, rental and royalty provisions of all Indian leases committed to said agreement are hereby established, altered, changed or revoked to conform with the terms and conditions of this agreement;

D. Certify and determine that the drilling, producing, rental, minimum royalty, and royalty requirements of all Federal leases committed to said agreement are hereby established, altered, changed, or revoked to conform with the terms and conditions of this agreement.

Dated:

_____ _____

Commissioner of Indian Affairs

Dated:

_____ _____

Director, United States Geological Survey

MAR02-0796

MAR-796

DALLAS
SAFETY AND ENVIRONMENTAL
AFFAIRS DEPARTMENT

MAY 25 1983

S 100.13

TEXAS OIL & GAS CORP.

Inter-Office Memorandum

Date: May 23, 1983

To: District and Project Managers

From: A. D. Carter, Jr.

Re: TXO's Policy Banning Use of certain Materials

Occasional review of TXO's policy on preventing use of certain undesirable or questionable materials in TXO-operated drilling, completion, workover, and producing operations is appropriate in order to keep up with changes in personnel and latest published information.

A copy of Forrest Hoglund's June 18, 1980 letter on the subject of asbestos and chromates is attached. That letter and its attachment indicate the acceptability of conventional lignosulfonates that have the added chromium cooked-in. Generally available information indicates that the cooking process converts the chromium (added as "raw chromate or dichromate") from the very soluble and more-hazardous hexavalent state to the more-acceptable trivalent state. The 1980 transmittal defines several materials which TXO should not use:

Known materials which TXO SHOULD NOT USE	Remarks; some comments about acceptable alternatives
1. Asbestos, or asbestos-blended materials	1. Hazards of asbestos are widely publicized. (Diaseal M now contains no asbestos.
2. Chromates/dichromate	2. Some suppliers still try to sell these.
3. Lignosulfonate/chromate mix	3. Lignosulfonate alone is acceptable.
4. Lignite/chromate mix	4. Plain Lignite is acceptable.
5. Tannin/chromate mix	5. Chrome-free tannin now available.

An IADC-Sponored committee-written booket on Mud Disposal recently became available. This booklet is being studied to update our information regarding both (a) Industry's disposal techniques and (b) materials acceptability. Additional detail will be issued when this study is complete. Our recommendations on pH control to combat drill stem corrosion will be revised to recommend a pH of 9.5 or higher, instead of the 10.0 or higher now indicated on Page IV-1 of the Drilling And Completion Manual; the higher pH's as previously recommended will continue to be desired when needed to combat H_2S and also for fluid left behind casing. Pending release of detailed data from the study now in progess, the districts' staffs should contact Ed Hays (Ext. 2272) if there are any questions on specific materials or this overall subject.

A. D. Carter, Jr.

EGH:pg
Attachments(2)
cc: Ted Warren, FWA
Jack Boley, TXO
District Drilling Managers/Engineers
John Morgan
Charles Canfield

MAR02-0797

TXO-81

MAR-797

TEXAS OIL & GAS CORP.

Inter-Office Memorandum

Date: June 18, 1980

To: District Managers

J. D. Huffaker - FWA

From: F. E. Hoglund

Re: Elimination of Asbestos, Chromates and Chrome in Drilling, Completion and Workover Fluids

Under the recently issued Resource Conservation and Recovery Act (RCRA) by the EPA, drilling fluids received a temporary exemption for an undetermined period of time. It is extremely important that the industry be able to obtain a permanent exemption of drilling fluids from RCRA.

To help achieve the above, it has been decided that as a matter of policy the Company will not use asbestos, and will severely restrict the use of chrome or chromates in any drilling, workover or completion fluid. It is strongly suggested that chrome compounds be used only after discussion with drilling experts and it is found that overriding conditions require their usage. The only exception to this is a lignosulfanate with chromium cooked in.

Our Drilling Manual (Page IV-1) gives details of how corrosion can be controlled using a high pH. Attached is a guideline on acceptable chemicals to replace the controversial chemicals.

F. E. Hoglund

FEH/eb

Attachment

MAR02-0798

MAR-798

SIMPLER AND SAFER DRILLING/COMPLETION/WORKOVER FLUIDS

- Avoid Use of Controversial Chemicals and Materials.
- Use the Practical Minimum Types/Amounts of Additives.

Various chromates and asbestos are two of the most controversial and questionable types of materials marketed for drilling and production operations. Questions include not only (a) whether a real need is served by these materials, but also (b) that of safety (handling, risk, disposal, pollution, etc.).

In addition to the wide range of opinion as to performance (especially in comparison with that of certain more common and more widely understood materials), chromates and asbestos are high-priced.

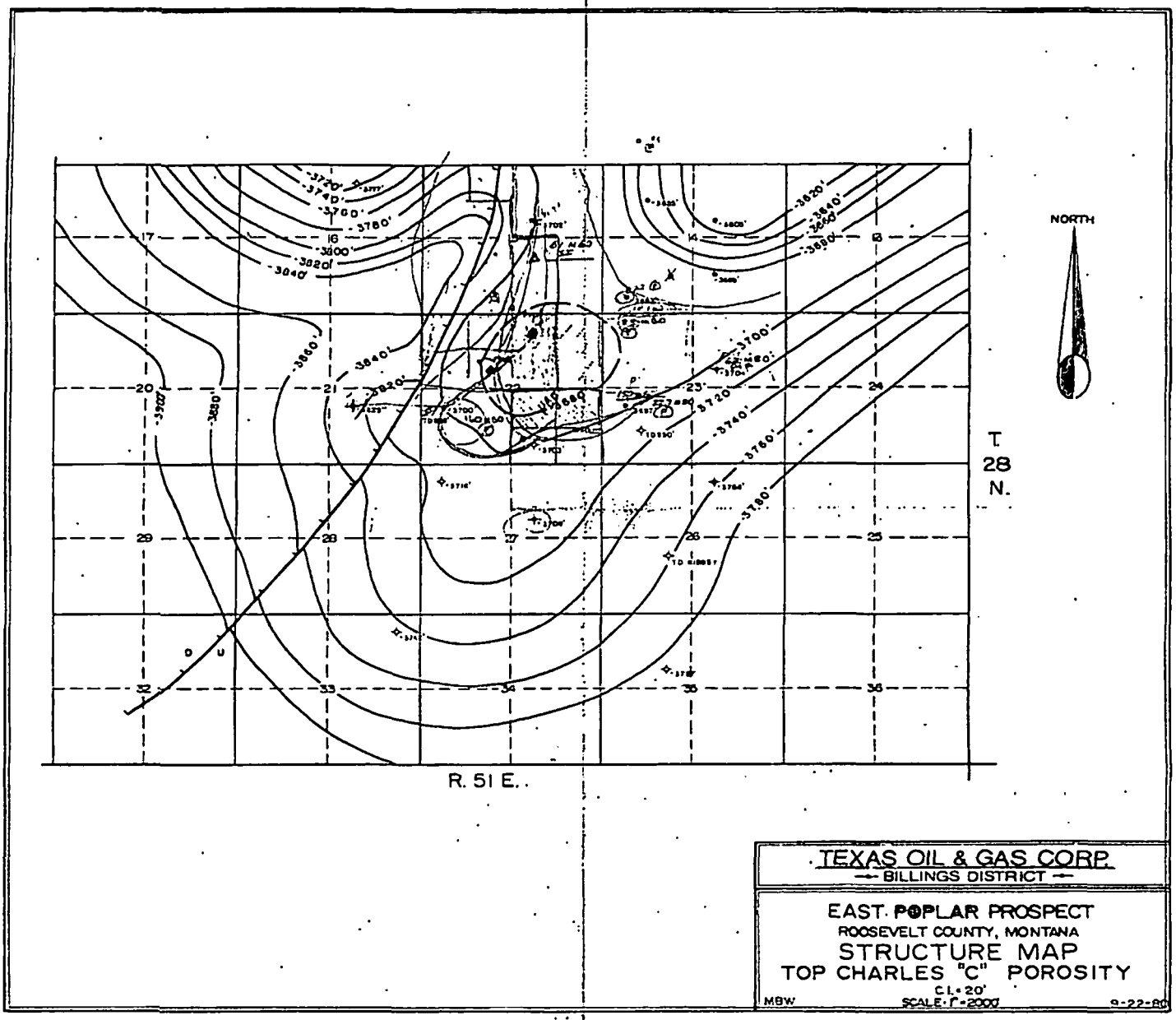
The following tabulation broadly classifies and prices these materials in comparison with certain less-controversial additives.

Product or Chemical	Controversial vs Generally Acceptable	Approximate Price Per Pound	Marketing Claims (Some Vendors); Common Function; or Remarks
Sodium Chromate	Controversial	$ 1.11	Corrosion inhibitor; mud thinner.
Caustic Soda	Gen. Acceptable	47¢	pH; corrosion control "workhorse".
Lime	Gen. Acceptable	11¢	pH; corrosion control "wtr-drlg".
Lignosulfonate (w/chromium "cooked-in")	Gen. Acceptable	71¢	Mud thinner/deflocculant.
Lignosulfonate (w/chromate added, "not cooked-in")	Controversial	75¢	Mud thinner/dispersant.
"Chrome-Free" Lignosulfonate	Recent Development	71¢	Mud thinner/deflocculant (should prove a welcome addition to market).
Lignite("plain")	Gen. Acceptable	32¢	Thinner (deflocc.); reduce filtrate.
Lignite w/caustic	*Controversial	47¢	*Thinner (deflocc.); reduce filtrate.
Lignite w/chromate	Controversial	70¢	Thinner (deflocc.); reduce filtrate.
Tannin (w/chromate added)	Controversial	$ 2.45	Mud thinner.
Asbestos	Controversial	53¢	Viscosifier; also for sweep-pills.
Attapulgite "Salt Gel"	Gen. Acceptable	12¢	Viscosifier; main use in SW fluids.
Bentonite	Gen. Acceptable	8¢	Viscosifier; filtrate/cake control.

*Better practice, overall, is to buy lignite and caustic soda separately.

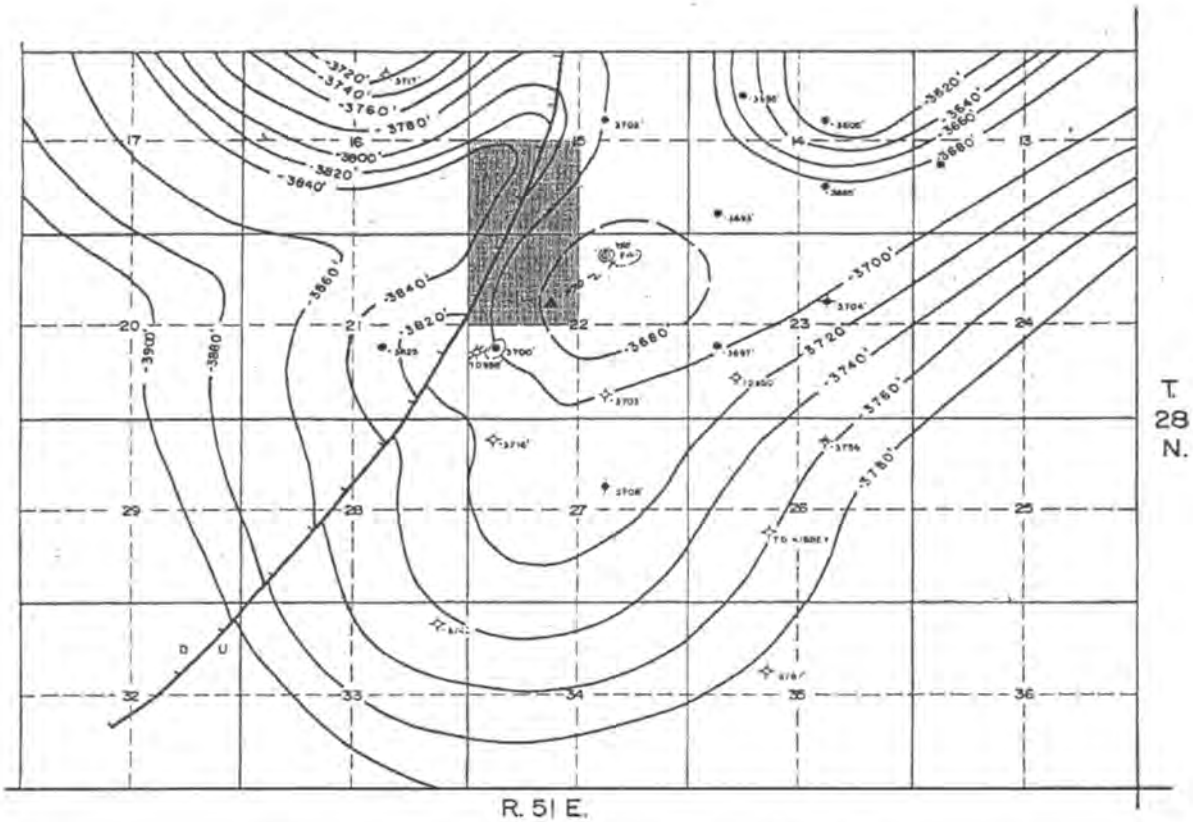
NOTE: For air-drilling and air-mist-drilling, some chromate-free materials have been introduced in recent years.
Suggestion for drilling fluid cost control (and to reduce the chance for wrong treatment or disposal problem): Use practical minimum number of acceptable additives. Cases occurred in Industry where 19-25 additives were used in deep wells, and problems resulted in addition to high cost. Many deep wells can be handled using 8-14 additives. Similarly, many 2700' wells were drilled in one field using produced salt water plus 1 additive ($200 worth of lime) for pH control.

ECH:mm 5-27-80



MAR02-0800

MAR-800



TXO 100% INTEREST

TEXAS OIL & GAS CORP.
→ BILLINGS DISTRICT ←

EAST POPLAR PROSPECT
ROOSEVELT COUNTY, MONTANA
STRUCTURE MAP
TOP CHARLES "C" POROSITY

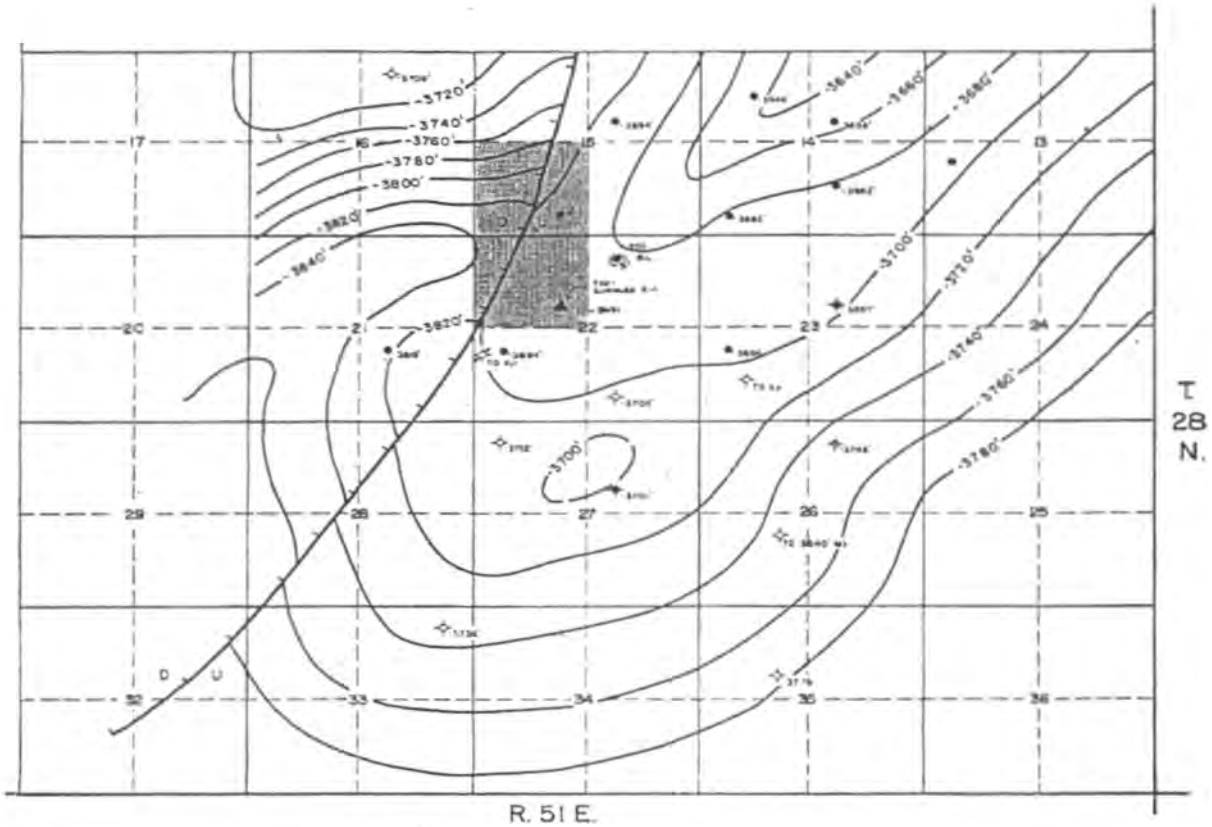
C.I. = 20'
SCALE: 1" = 2000'

MBW

9-22-80

MAR02-0801

MAR-801



TXO 100% INTEREST

TEXAS OIL & GAS CORP.
BILLINGS DISTRICT

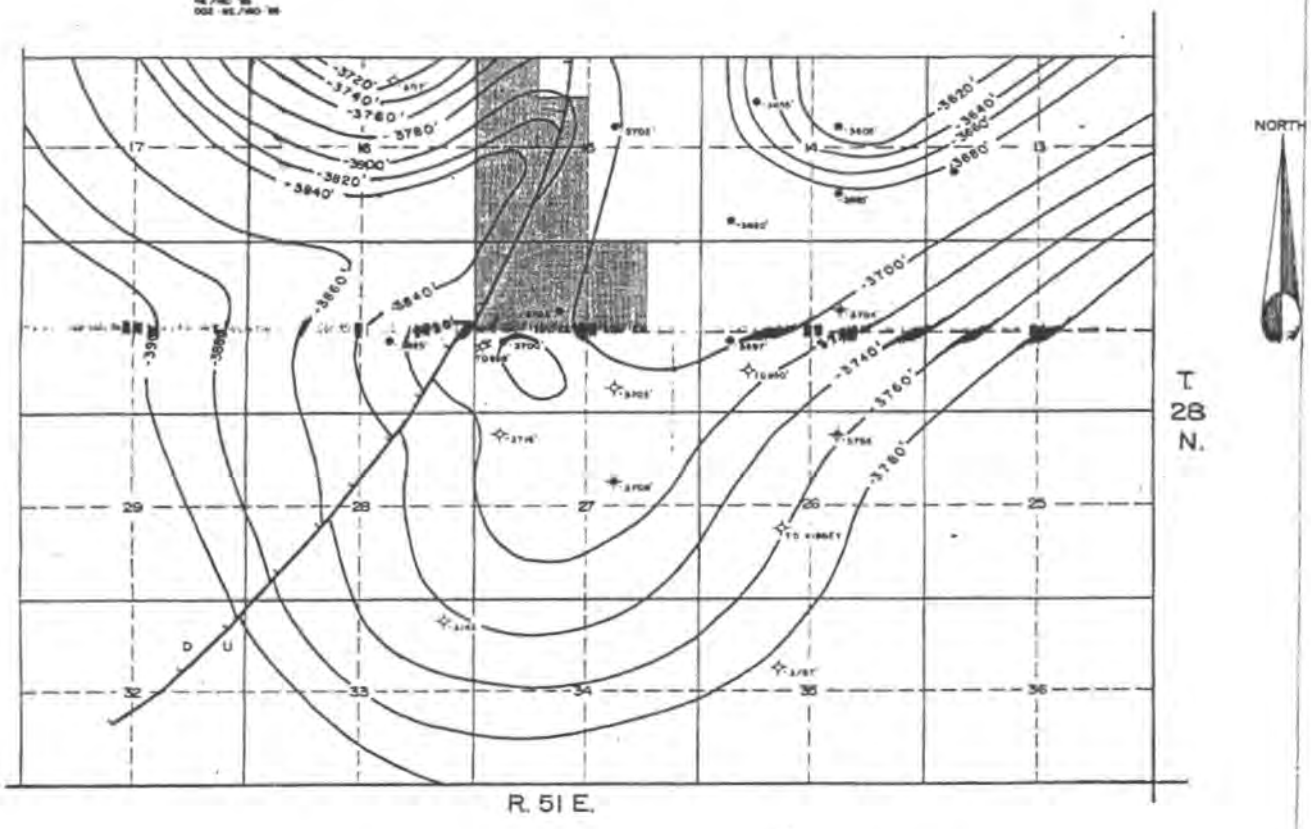
EAST POPLAR PROSPECT
ROOSEVELT COUNTY, MONTANA
STRUCTURE MAP
TOP CHARLES "C" ZONE

C.I. = 20'
SCALE: 1" = 2000'

MBW 9-22-90

MAR02-0802

MAR-802



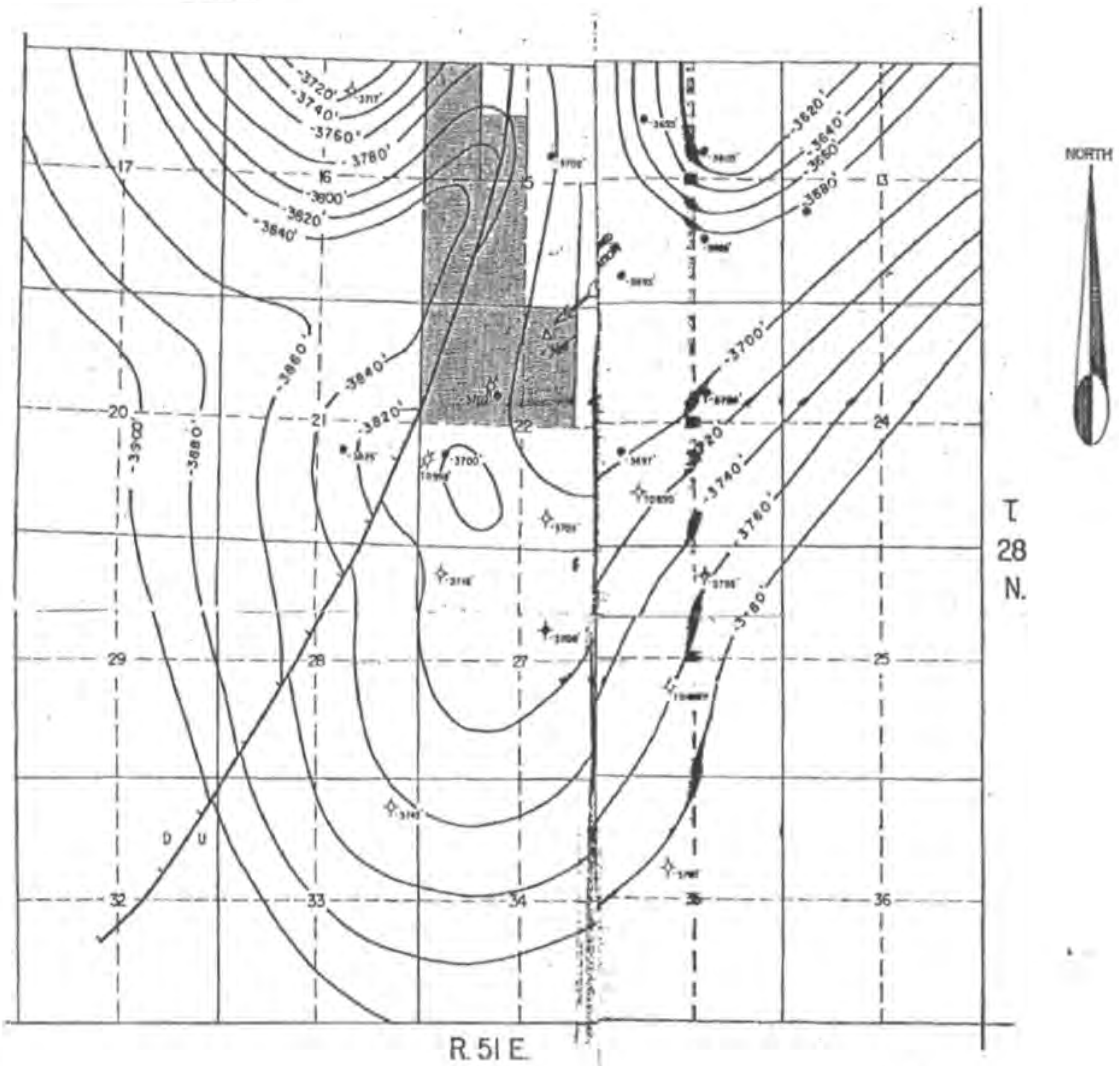
TXO 100% INTEREST

TEXAS OIL & GAS CORP.
BILLINGS DISTRICT

EAST POPLAR PROSPECT
ROOSEVELT COUNTY, MONTANA
STRUCTURE MAP
TOP CHARLES "C" POROSITY
C.I. = 20'
SCALE: 1" = 2000'
MBW
5-27-81

MAR02-0803

MAR-803



TXO 100% INTEREST

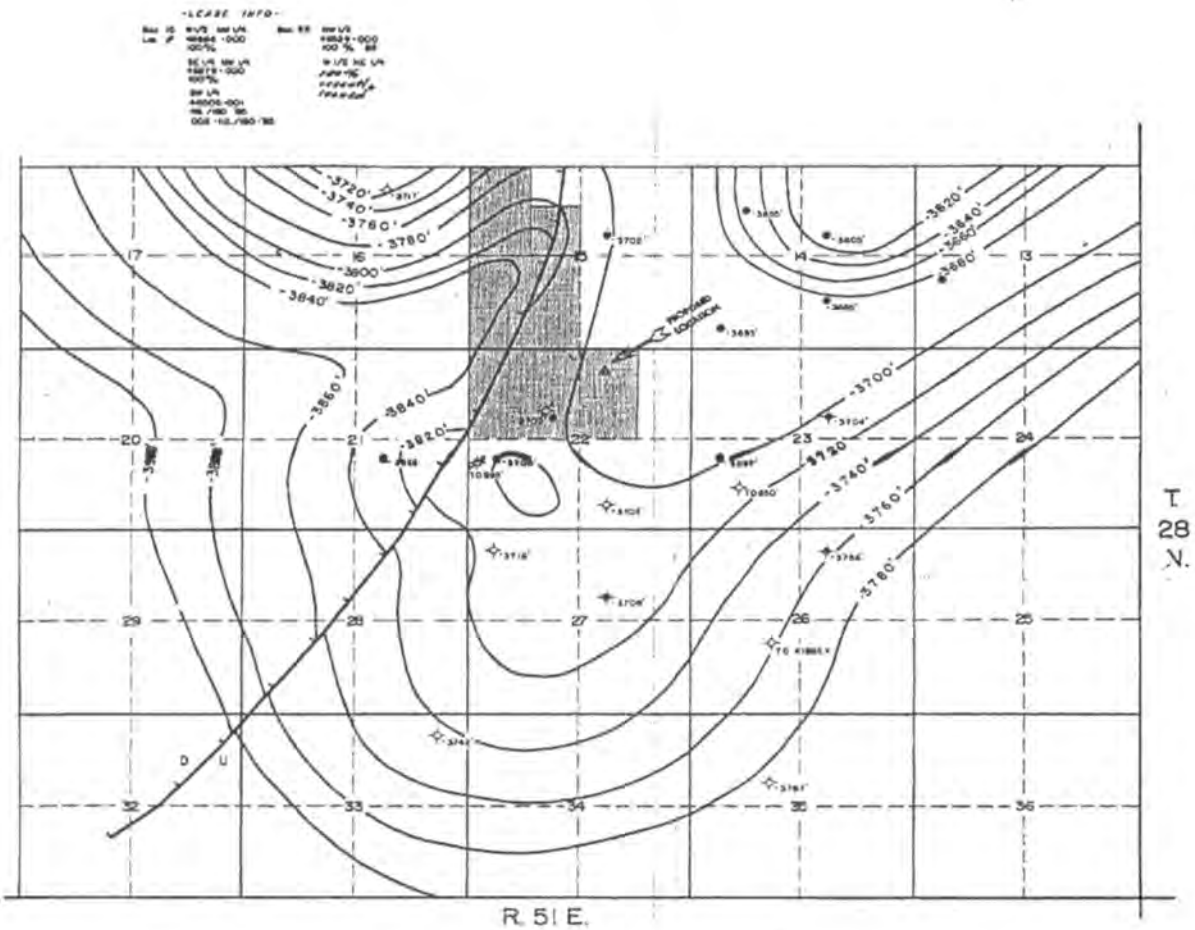
TEXAS OIL & GAS CORP.
BILLINGS DISTRICT

EAST POPLAR PROSPECT
ROOSEVELT COUNTY, MONTANA
STRUCTURE MAP
TOP CHARLES "C" POROSITY
C.I. = 20'
SCALE: 1" = 2000'

MEW 7-17-81

MAR-804

MAR02-0804



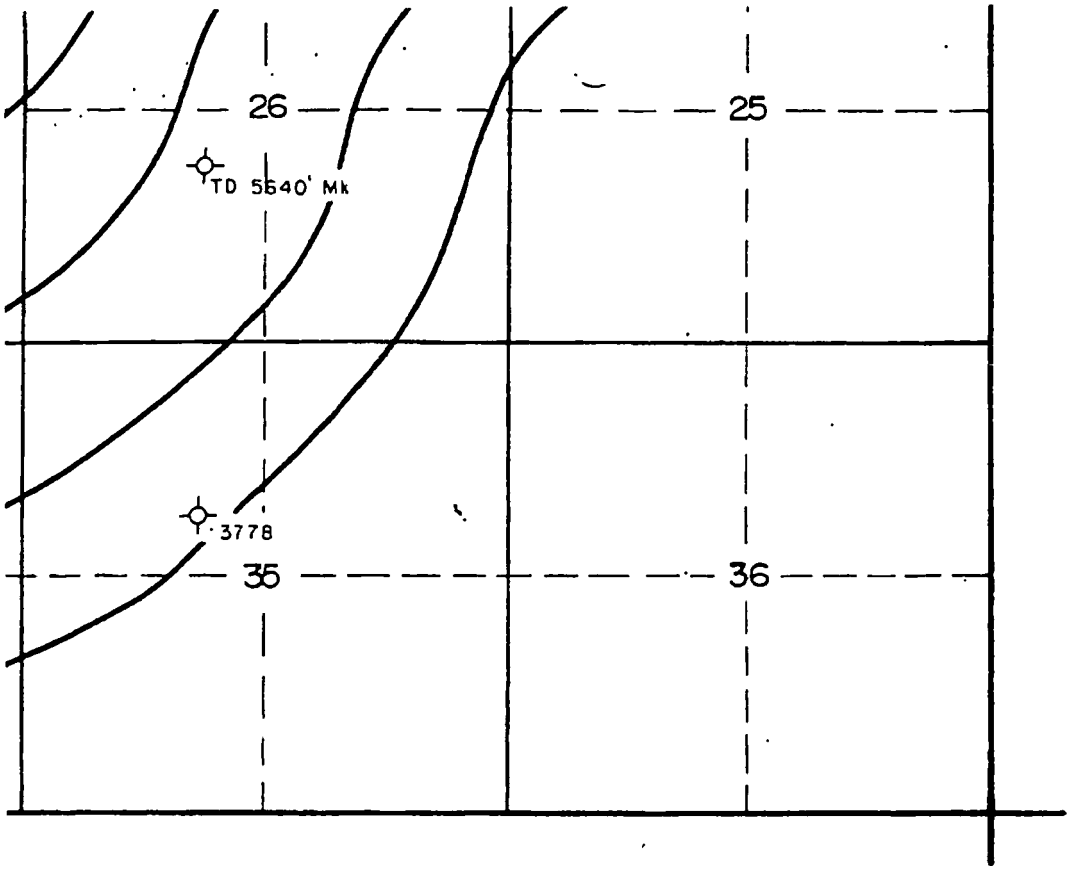
TXO 100% INTEREST

TEXAS OIL & GAS CORP.
BILLINGS DISTRICT

EAST POPLAR PROSPECT
ROOSEVELT COUNTY, MONTANA
STRUCTURE MAP
TOP CHARLES "C" POROSITY
CI = 20'
SCALE: 1" = 2000'
MBW 7-17-81

MAR02-0805

MAR-805



TEXAS OIL & GAS CORP.

BILLINGS DISTRICT

EAST POPLAR PROSPECT

ROOSEVELT COUNTY, MONTANA

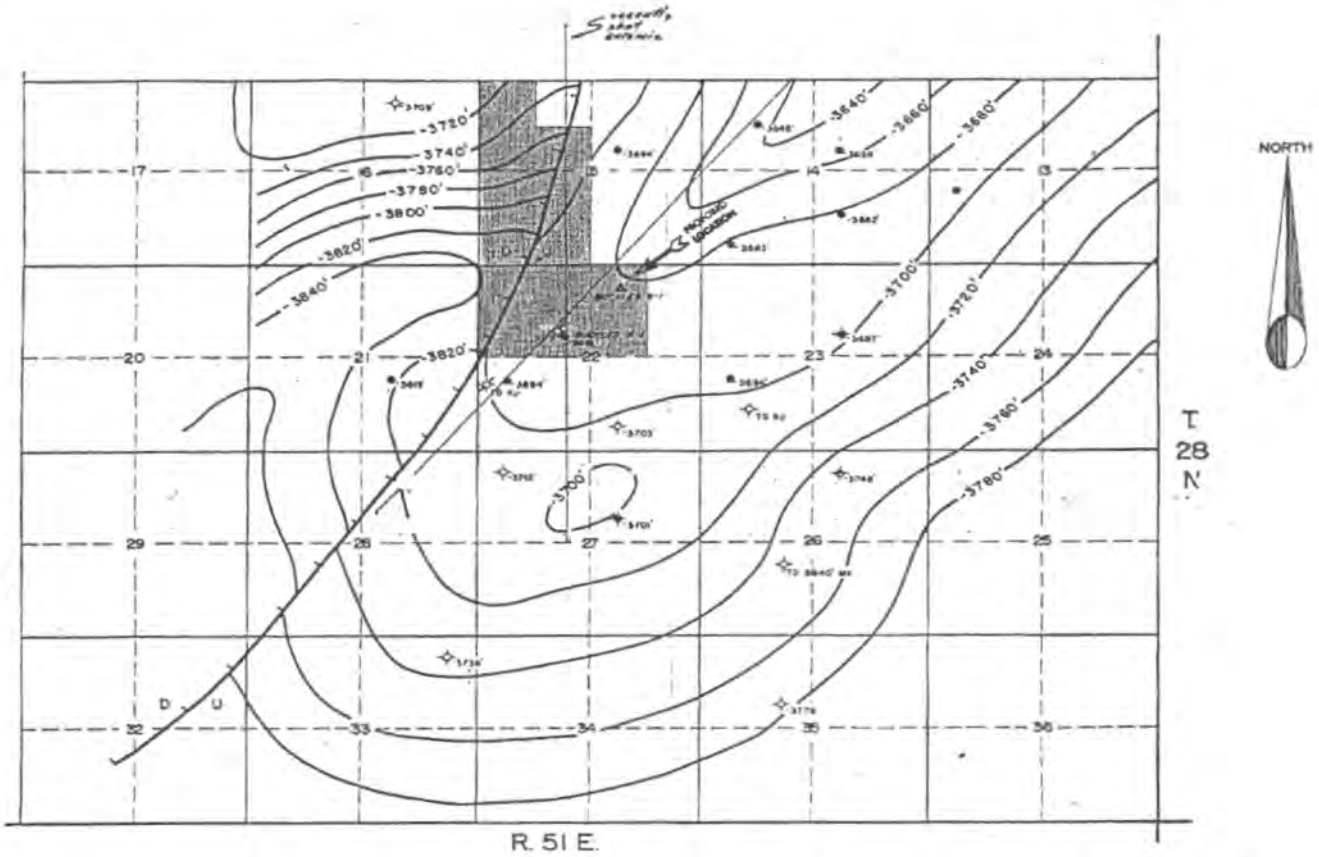
STRUCTURE MAP
TOP CHARLES "C" ZONE

C.I. = 20'

MBW SCALE: 1" = 2000' updated 7-17-81

MAR02-0806

MAR-806



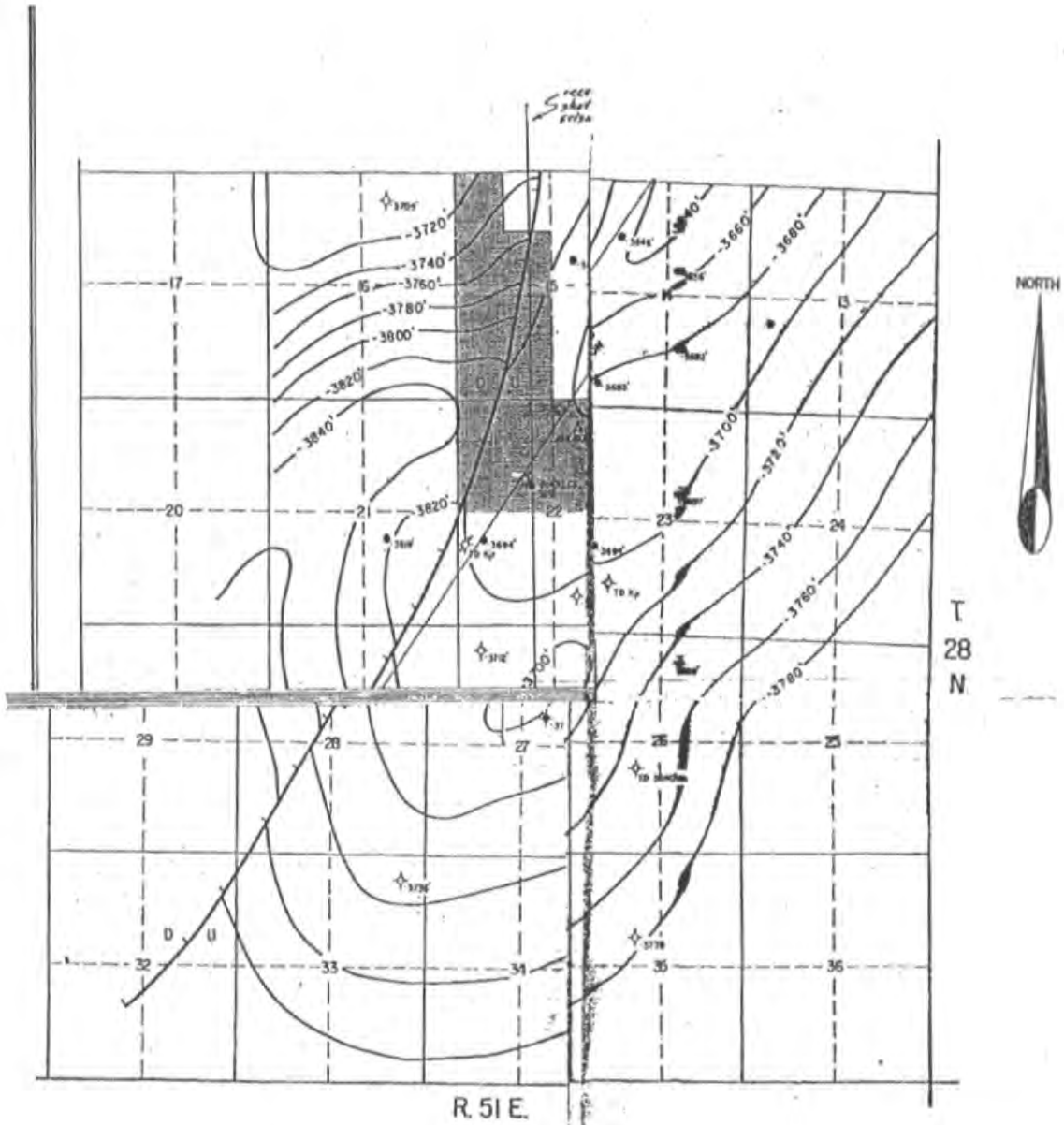
TXO 100% INTEREST

TEXAS OIL & GAS CORP.
BILLINGS DISTRICT

EAST POPLAR PROSPECT
ROOSEVELT COUNTY, MONTANA
STRUCTURE MAP
TOP CHARLES "C" ZONE
C.I. = 20'
SCALE: 1" = 2000'

MAR02-0807

MAR-807



TXO 100% INTEREST

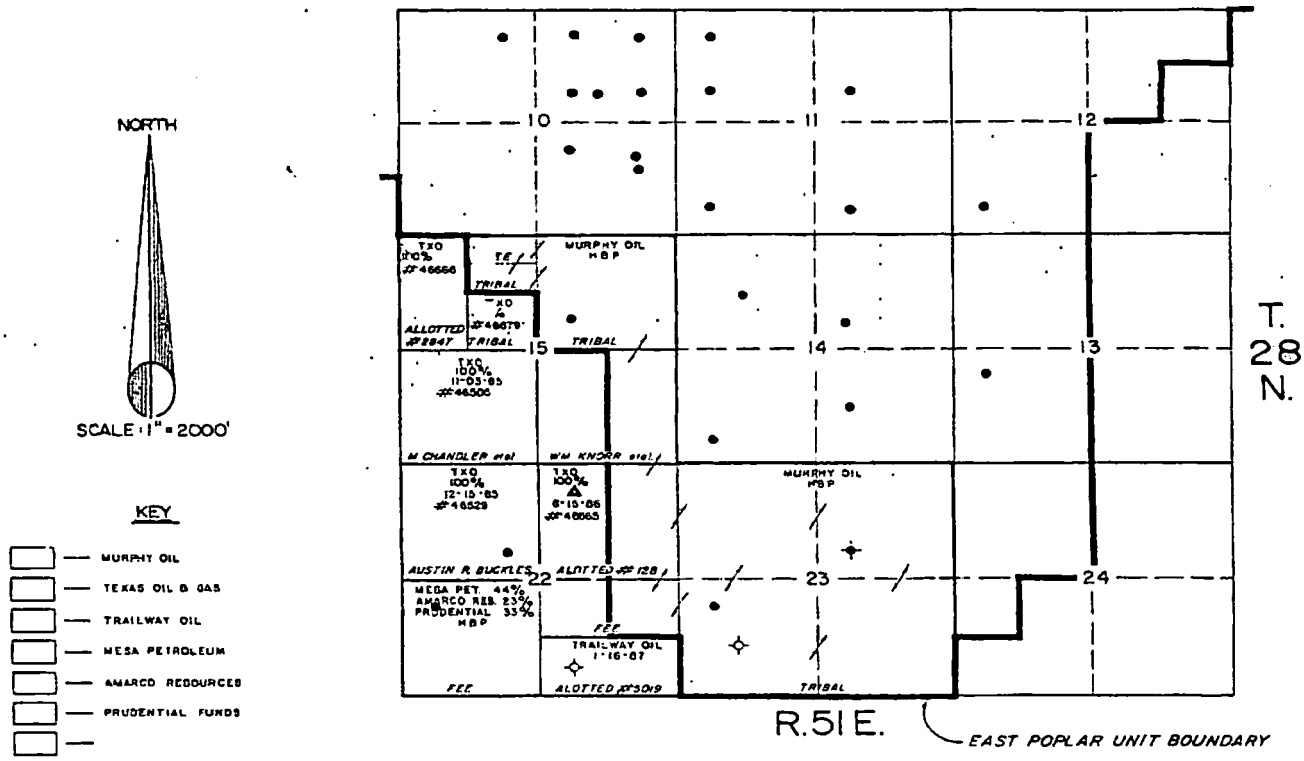
TEXAS OIL & GAS CORP.
BILLINGS DISTRICT

EAST POPLAR PROSPECT
ROOSEVELT COUNTY, MONTANA
STRUCTURE MAP
TOP CHARLES "C" ZONE

MAR02-0808

MAR-808

MINERAL and LEASHOLD PLAT



PROSPECT: EAST POPLAR

SECTIONS: 15, 22, 23

TOWNSHIP 28 N RANGE 51 E

ROOSEVELT COUNTY, MONTANA

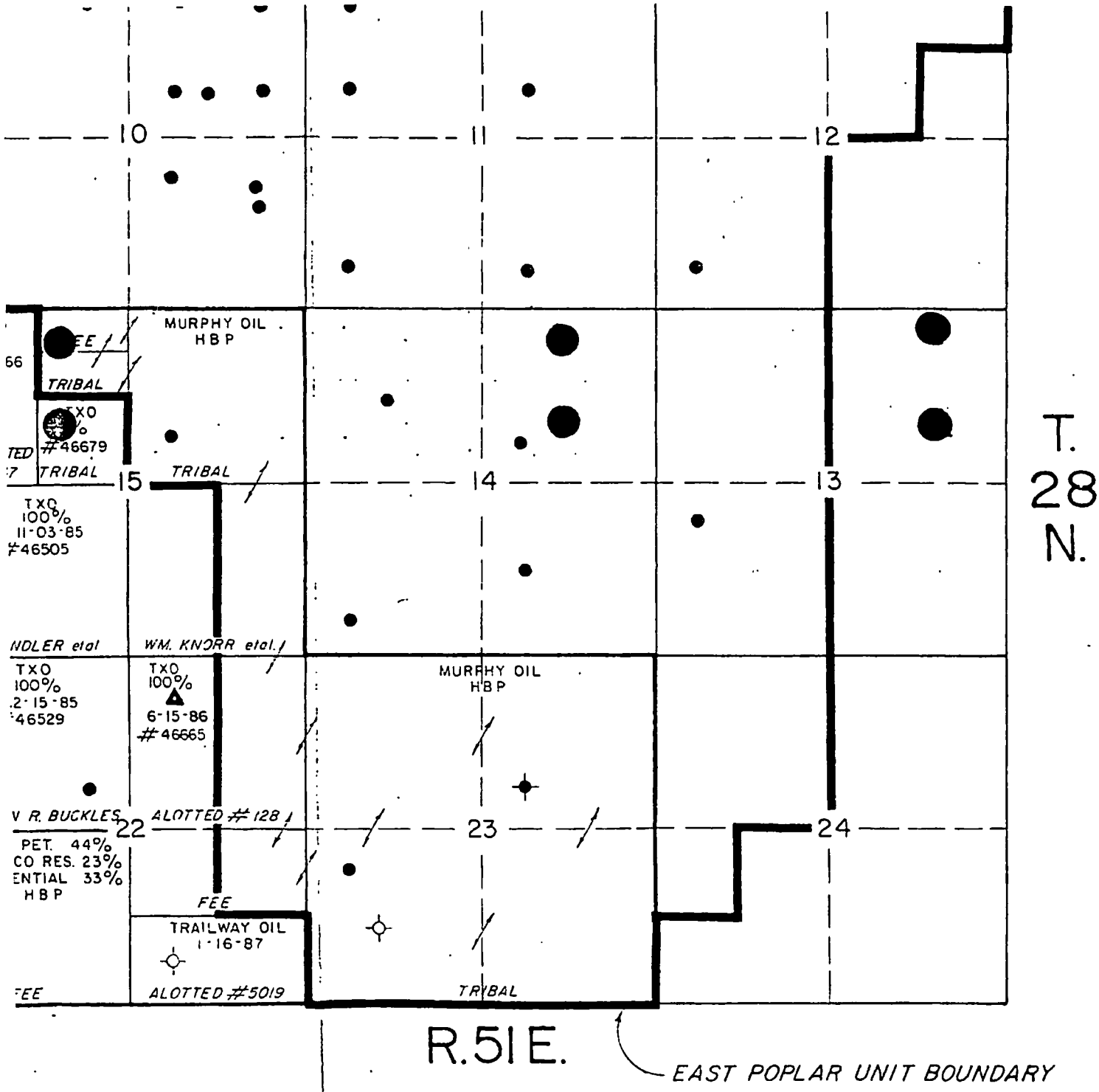
TEXAS OIL & GAS CORP.
Billings District

LAND PLAT

JO/LH SCALE: 1" = 2000' T-17

MAR02-0809

MAR-809



POPLAR

,23

RANGE 51E

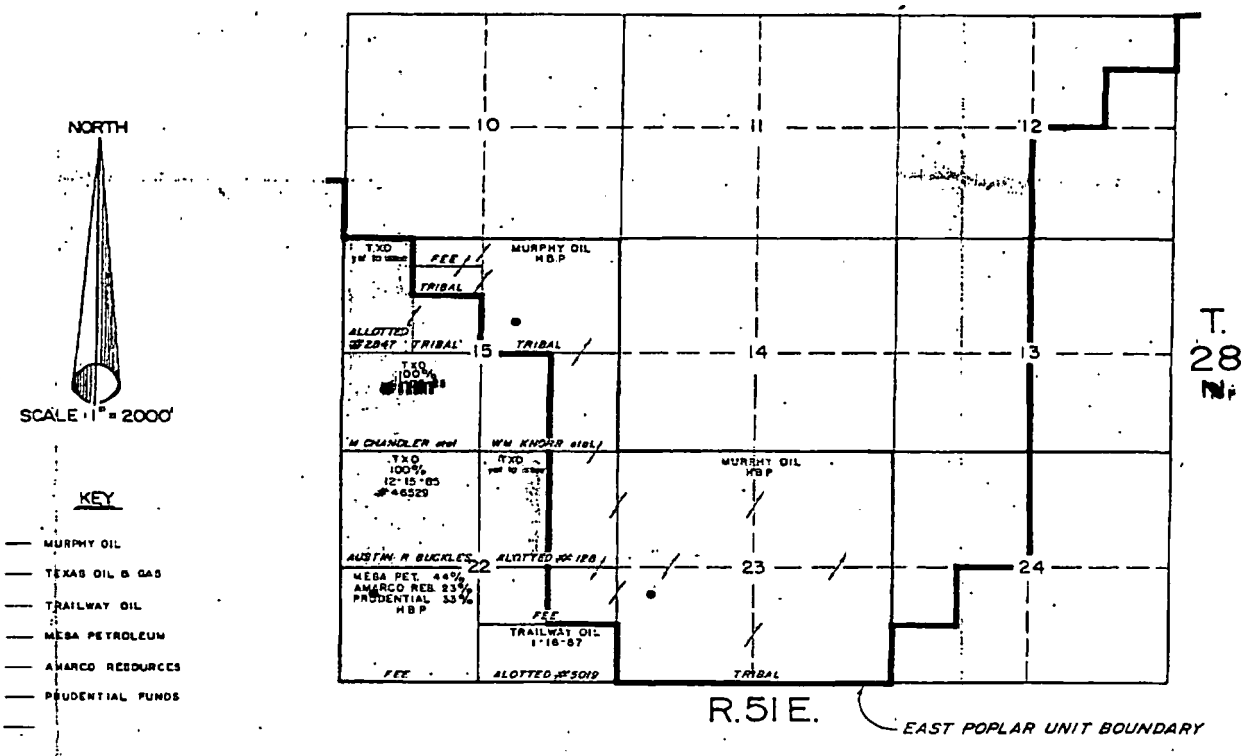
COUNTY, MONTANA

MAR02-0810

TEXAS OIL & G
Billings Di

MAR-810

MINERAL and LEASHOLD PLAT



PROSPECT: EAST POPLAR

SECTIONS: 15, 22, 23

TOWNSHIP 28 N RANGE 51 E

ROOSEVELT COUNTY, MONTANA

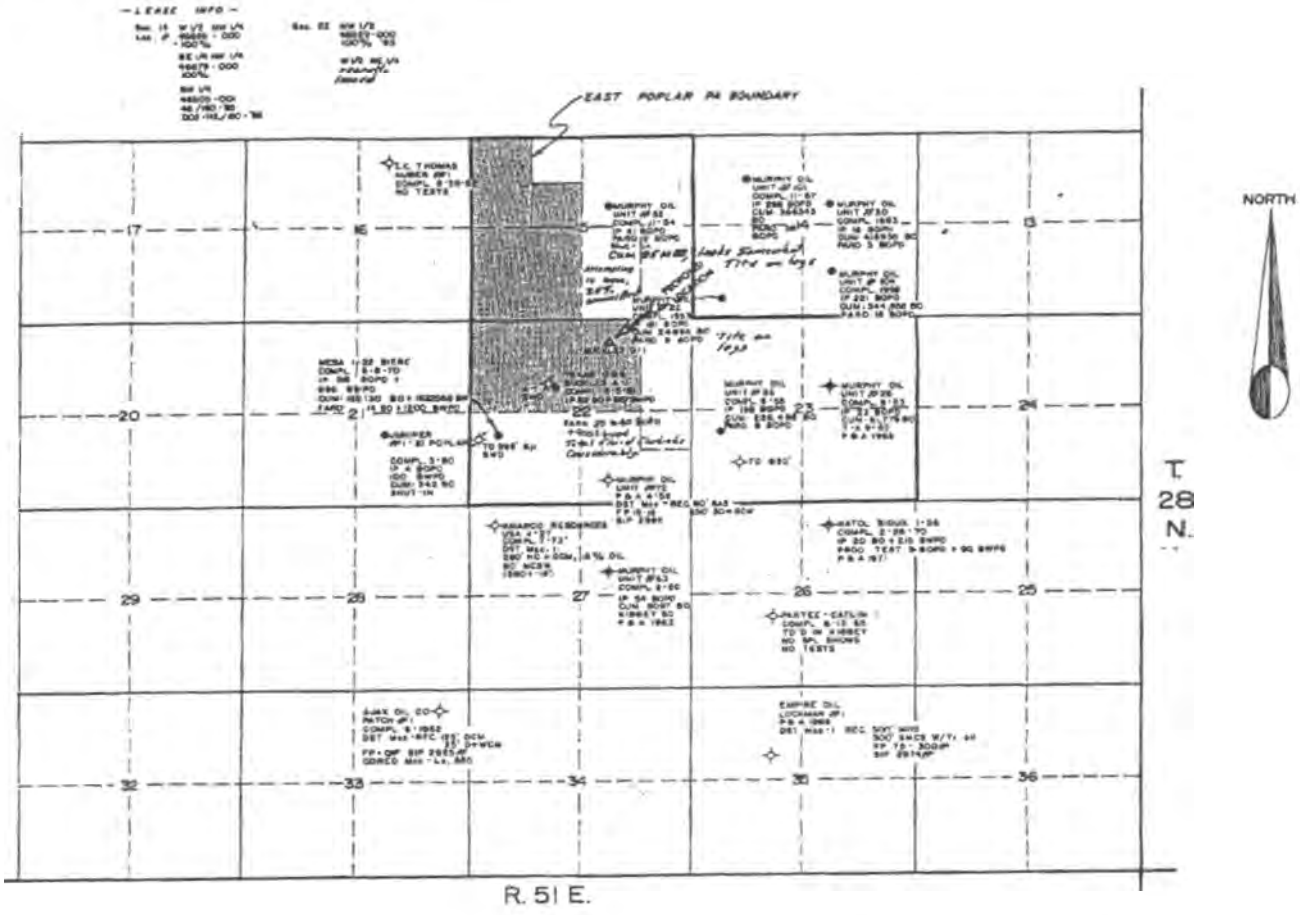
TEXAS OIL & GAS CORP.
Billings District

LAND PLAT

SCALE 1" = 2000'

MAR02-0811

MAR-811



TXO 100 % INTEREST

TEXAS OIL & GAS CORP.
BILLINGS DISTRICT

EAST POPLAR PROSPECT
ROOSEVELT COUNTY, MONTANA

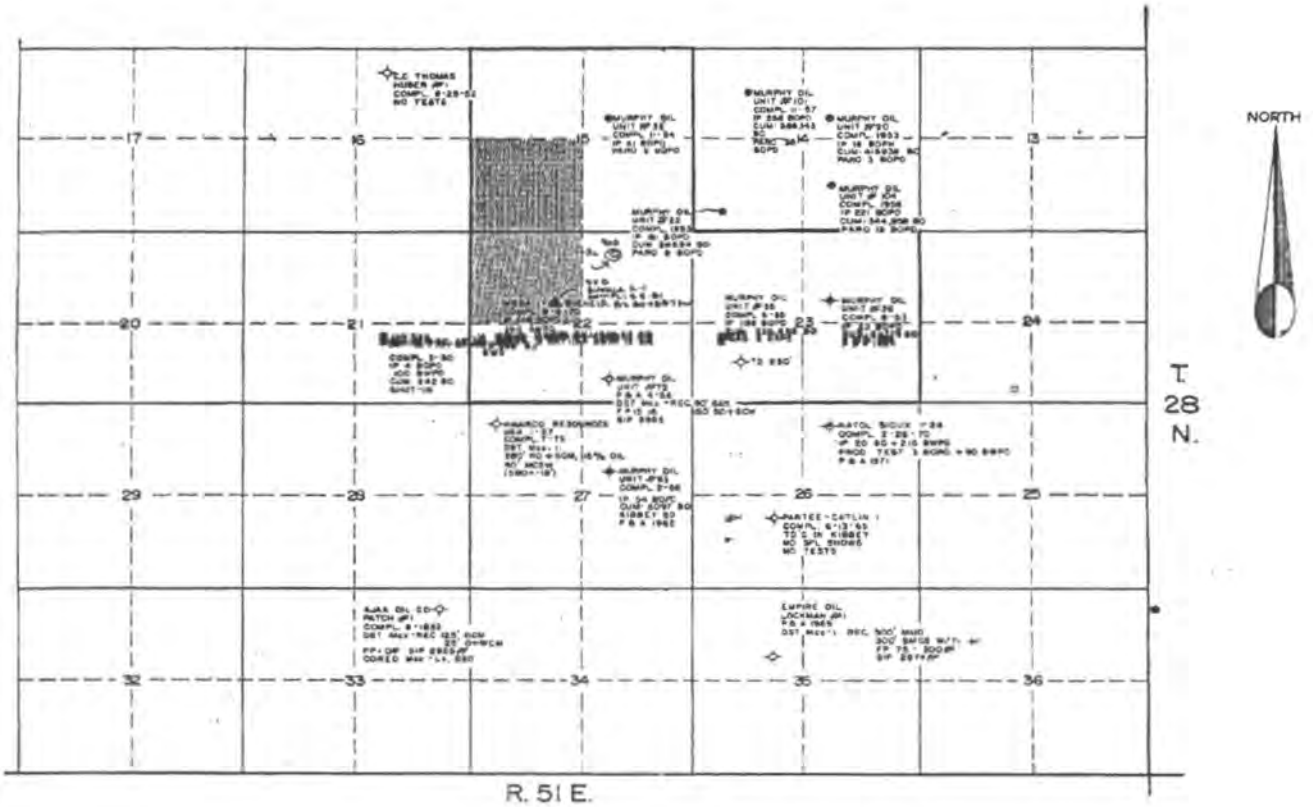
PRODUCTION AND DATA MAP

Production Data As Of 1-1-81

MBW SCALE: 1" = 2000' 7-17-81

MAR02-0812

MAR-812



TXO 100 % INTEREST

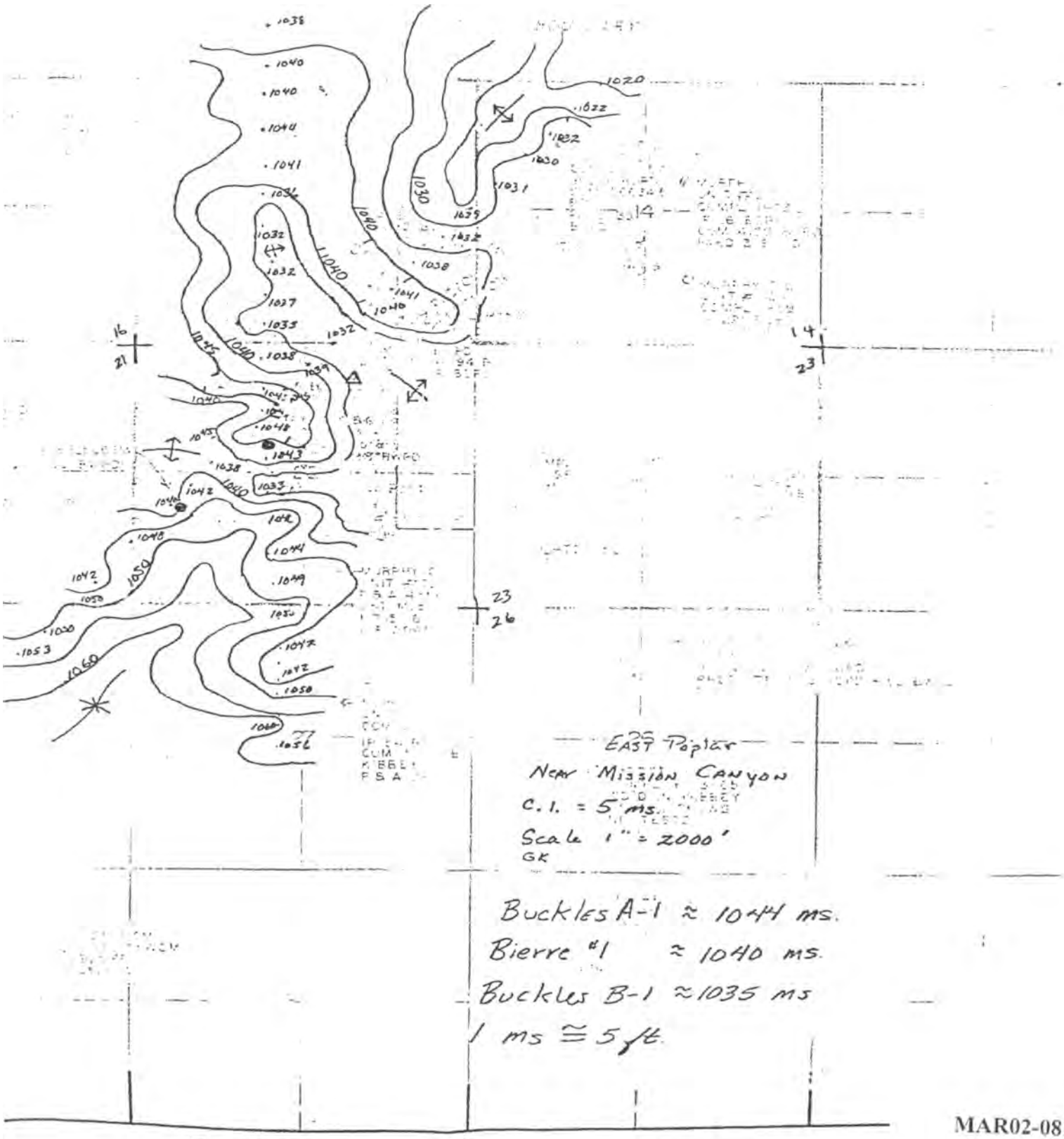
TEXAS OIL & GAS CORP.
BILLINGS DISTRICT

EAST POPLAR PROSPECT
ROOSEVELT COUNTY, MONTANA
PRODUCTION AND DATA MAP

MBW SCALE: 1" = 2000' 9-22-80

MAR02-0813

MAR-813



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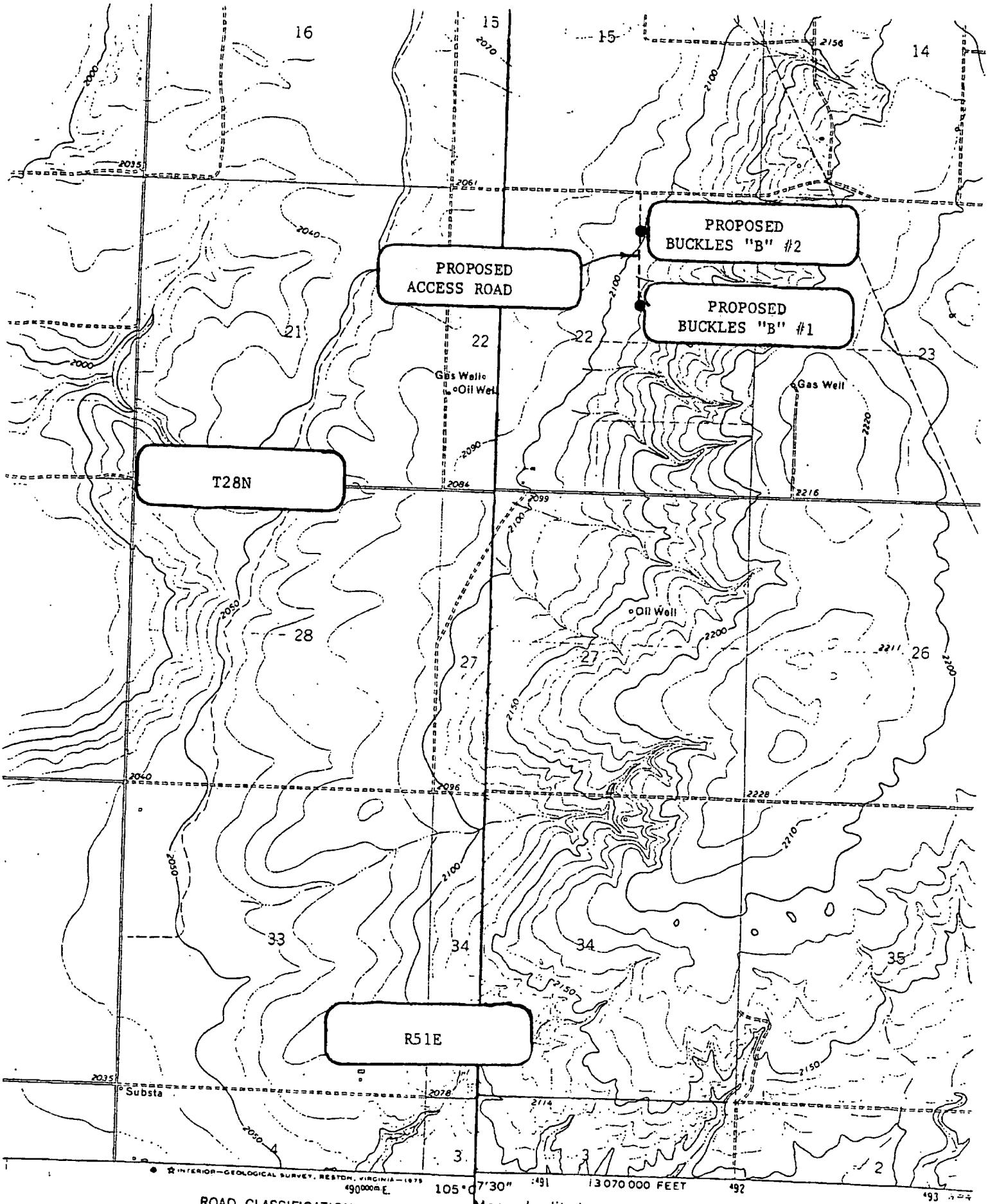
MAR-814



ROAD CLASSIFICATION

Primary highway, hard surface

Light-duty road, hard or improved surface

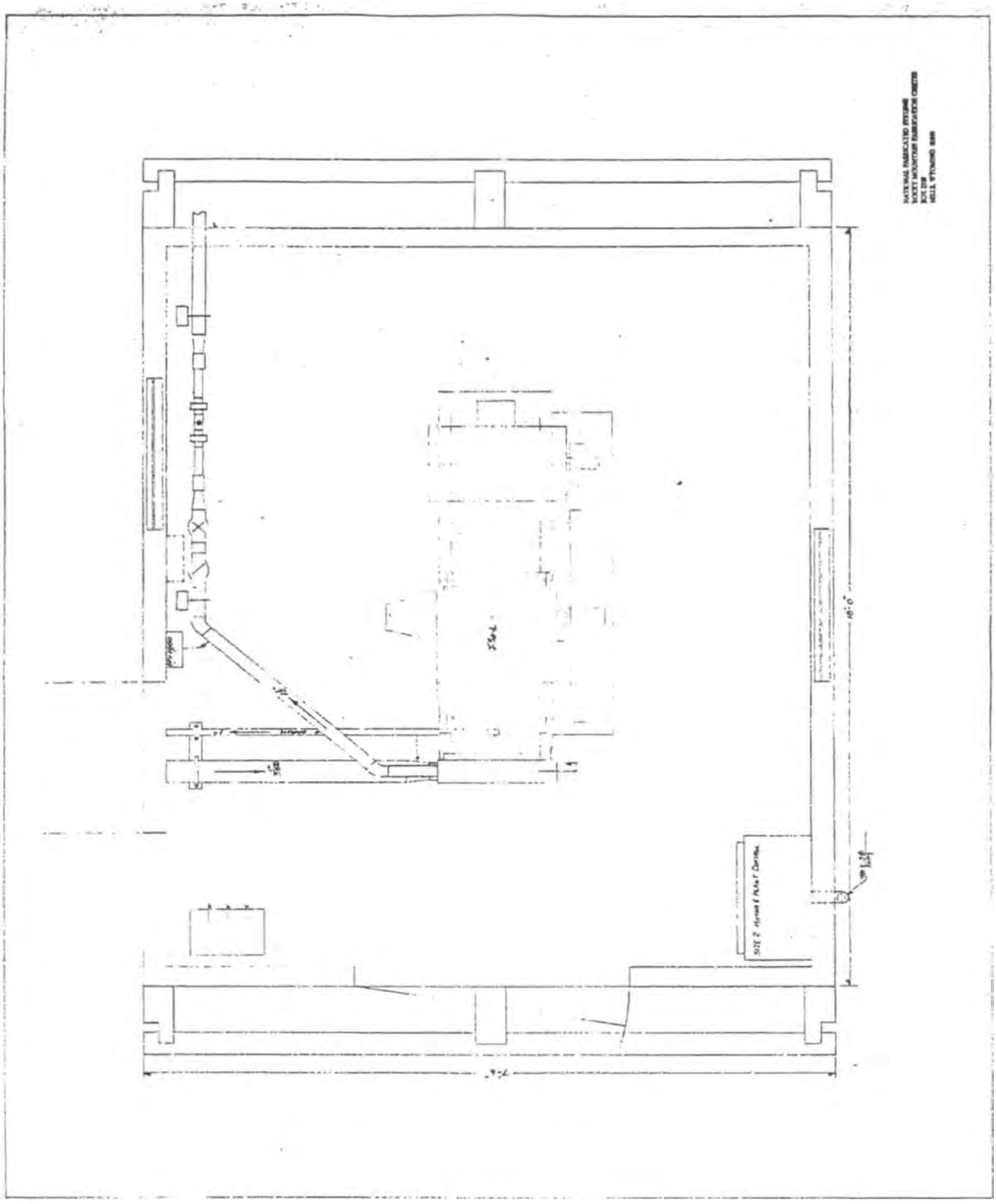
Mapped, edited, and published by the Geological Survey

Control by USGS, USC&GS, and Missouri River Commission

Topography by photogrammetric methods from aerial photographs

MAR-815

MAR02-0815



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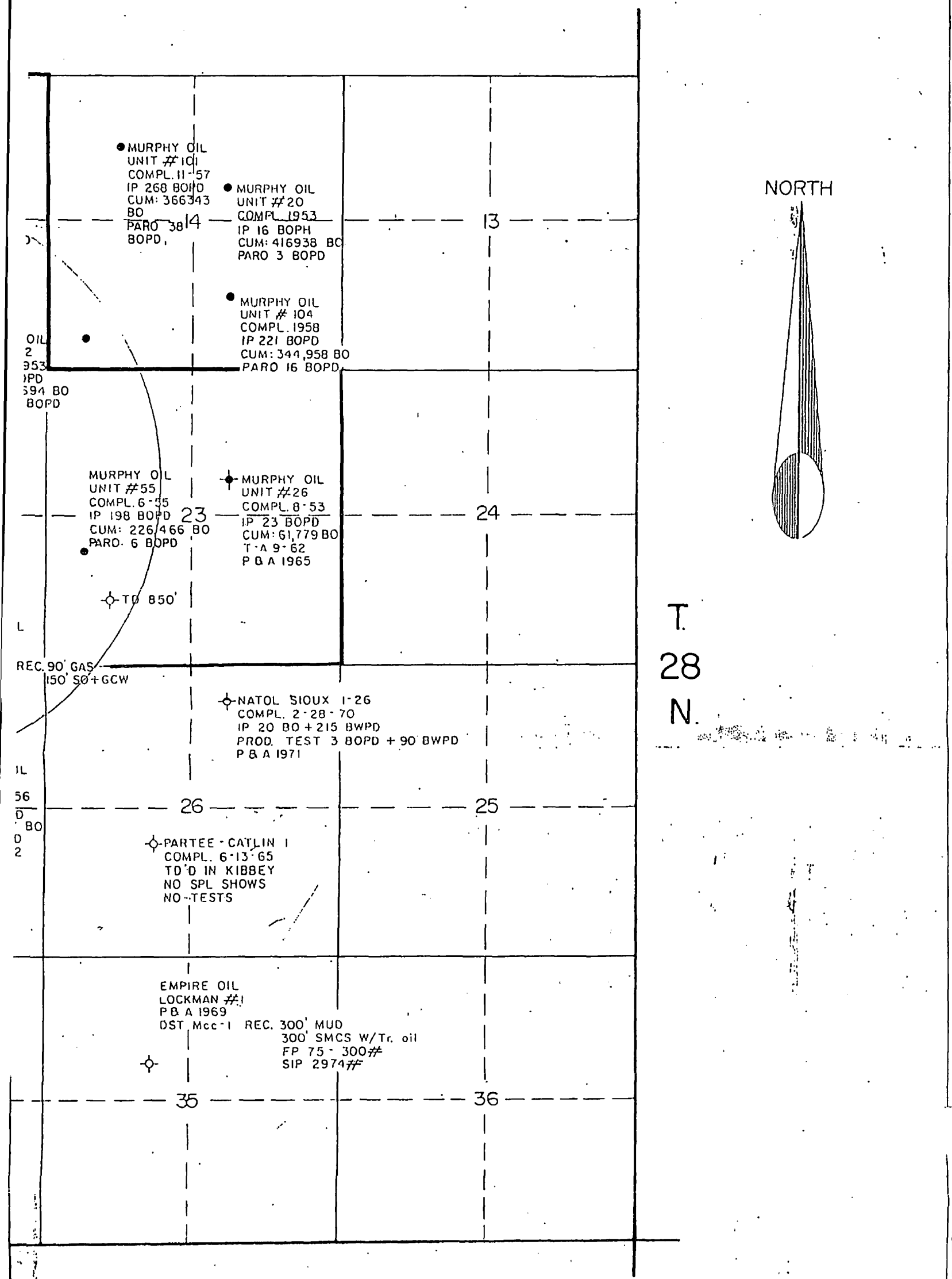


TEXAS OIL & GAS CORP.

BILLINGS DISTRICT

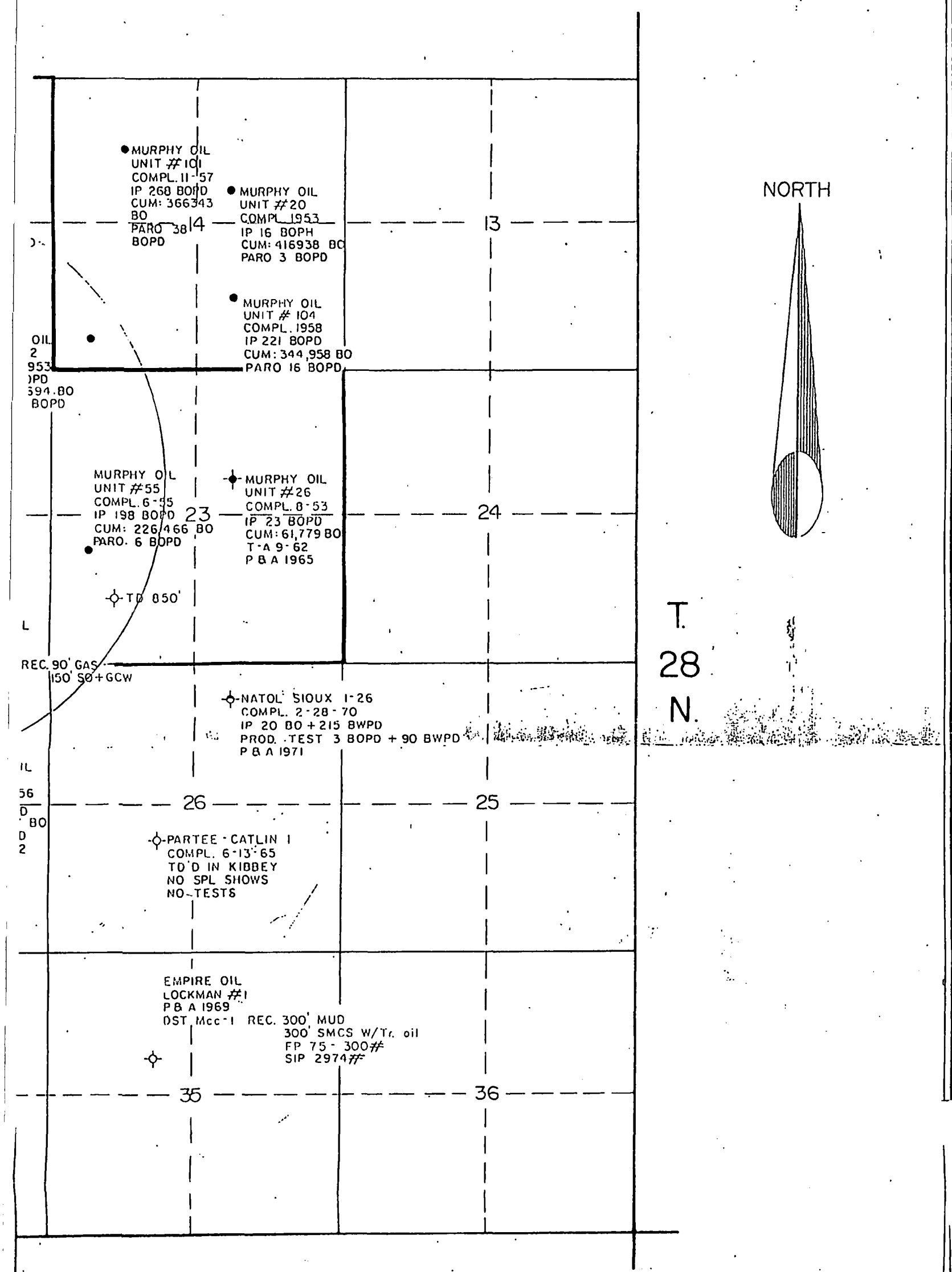
EAST POPLAR PROSPECT

ROOSEVELT COUNTY, MONTANA

PRODUCTION AND DATA MAP

MAR02-0817

MAR-817



TEXAS OIL & GAS CORP.

BILLINGS DISTRICT

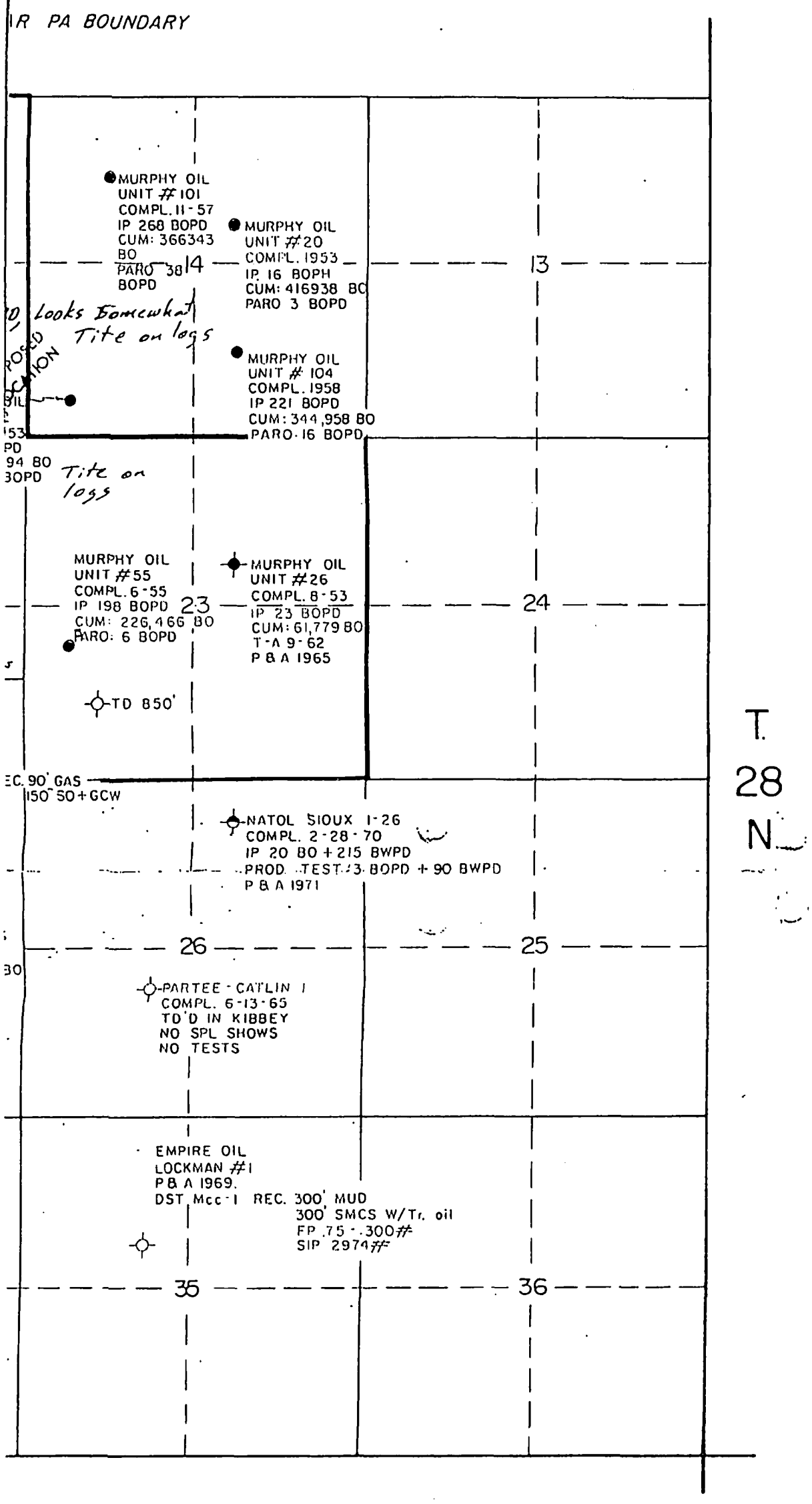
EAST POPLAR PROSPECT

ROOSEVELT COUNTY, MONTANA

PRODUCTION AND DATA MAP

MAR02-0818

MAR-818



TEXAS OIL & GAS CORP.

BILLINGS DISTRICT

EAST POPLAR PROSPECT

ROOSEVELT COUNTY, MONTANA

PRODUCTION AND DATA MAP

Production Data As Of 1-1-81

MBW SCALE: 1" = 2000' 7-17-81

MAR02-0819

MAR-819

— LEASE INFO —

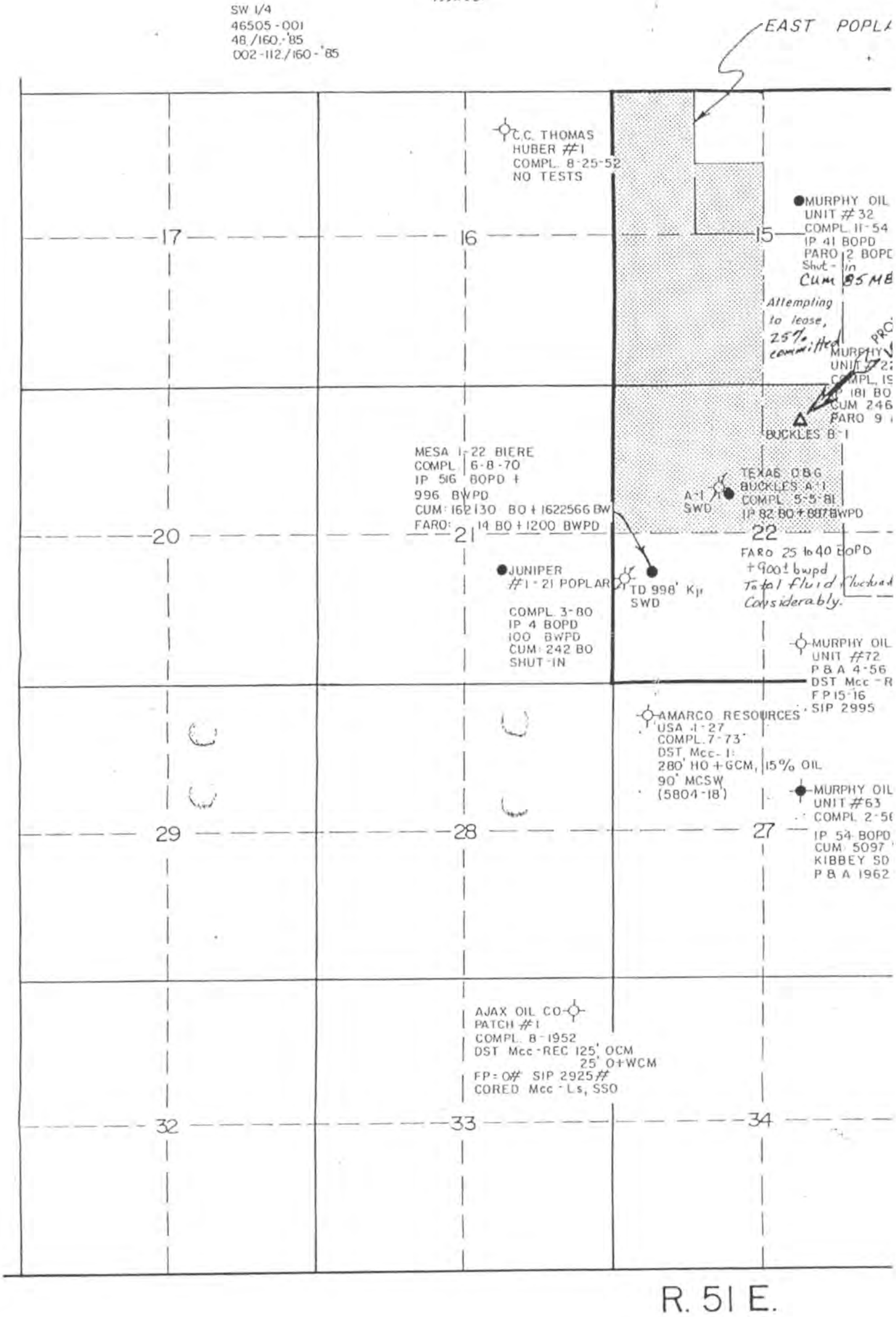
Sec. 15 W 1/2 NW 1/4
Lse # 46666 - 000
100%

SE 1/4 NW 1/4
46679 - 000
100%

SW 1/4
46505 - 001
48/160 - '85
002 - 112/160 - '85

Sec. 22 NW 1/2
46529 - 000
100% '85

W 1/2 NE 1/4
recently issued



R. 51 E.

TXO 100 % INTEREST

MAR02-0820

MAR-820

Schlumberger

BOREHOLE COMPENSATED SONIC LOG

COUNTY ROOSEVELT
FIELD EAST POPLAR
LOCATION SEC. 22-28N-51E
WELL BUCKLES NO. A-1
COMPANY TEXAS OIL & GAS

COMPANY TEXAS OIL AND GAS CORP.
PRODUCTION DEPT.
WELL BUCKLES NO. A-1
FIELD EAST POPLAR
COUNTY ROOSEVELT STATE MONTANA

LOCATION 1980'FNL - 1980'FWL

API SERIAL NO.	SEC	TWP	RANGE
	22	28N	51E

Other Services:
DLL/MSFL/GR
FDC/CNL/GR

Permanent Datum: GL ; Elev.: 2085
Log Measured From KB 12 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 2097
D.F. ---
G.L. 2085

Date	4-16-81			
Run No.	ONE			
Depth—Driller	5938			
Depth—Logger (Schl.)	5942			
Btm. Log Interval	5939			
Top Log Interval	1220			
Casing—Driller	8-5/8 @ 1214	@	@	@
Casing—Logger	1220			
Bit Size	7-7/8			
Type Fluid in Hole	SALT-LOW SOLIDS			
Dens. / Visc.	11.3 / 41			
pH / Fluid Loss	6.4 / 6 ml	ml	ml	ml
Source of Sample	MUD TANK			
Rm @ Meas. Temp.	.056 @ 68 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	.049 @ 68 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	.084 @ 68 °F	@ °F	@ °F	@ °F
Source: Rmf / Rmc	M / C			
Rm @ BHT	.022 @ 188 °F	@ °F	@ °F	@ °F
TIME: Circulation Stopped	4-16-0600			
TIME: Logger on Bottom	4-16-1500			
Max. Rec. Temp.	208 °F	°F	°F	°F
Equip. / Location	8135 / WLSTN-4109			
Recorded By	SACHAU			
Witnessed By	WALEN - PERIUS			

MAR-826

MAR02-0821

	ONE			
der No.	213161			
	FULL			
ENT DATA				
el No.	SLM-DA-412			
No.	SLC-FA-1171			
le No.	SLS-RC-86			
el No.	CPU-CAA-535			
No.	SGC-JC-2250			
No.	NLM-BC-439			
).	MCD-DA-691			
	MTU-D-2745			
s: No.	1	1		
Type	CME-Z	CALIPER		
No.	---			
ype	---			
T.	1			
P.M.	60			
TION DATA				
BKG. API	22			
SourceAPI	169			
D.C.FT.	1			

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole
GR	5200	0-200	0-100
ΔT	4900	140/90-40	80-60-40
ØS	4900	45/-15	30/-10
ØS	3100	60/0	45/-15

LOGGING DATA

Porosity Selectors				Depth	
Δt_m	Δt_f	Cp	Ø Scale	From	To
47.6	189	100	30/-10	TD	4900
"	"	"	45/-15	4900	3100
"	"	"	60/0	3100	LR

REMARKS

Velocity (ft/sec) = 1,000,000 / Interval Transit Time (microseconds per foot)

terpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any inter-tions, 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 ned 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 tions as set out in our current Price Schedule.

PARAMETERS

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
DTM	US/F	47.60	CDTS		100.0	BS	INCH	7.875
FPHI		PHIX	DTF	US/F	189.0			
DD		0.0	BHS		OPEN			

CALI(IN)		TENS(LB)
000 16.00		10000. 0.0
GR (GAPI)	DT (US/F)	
0 200.0	140.0	40.00

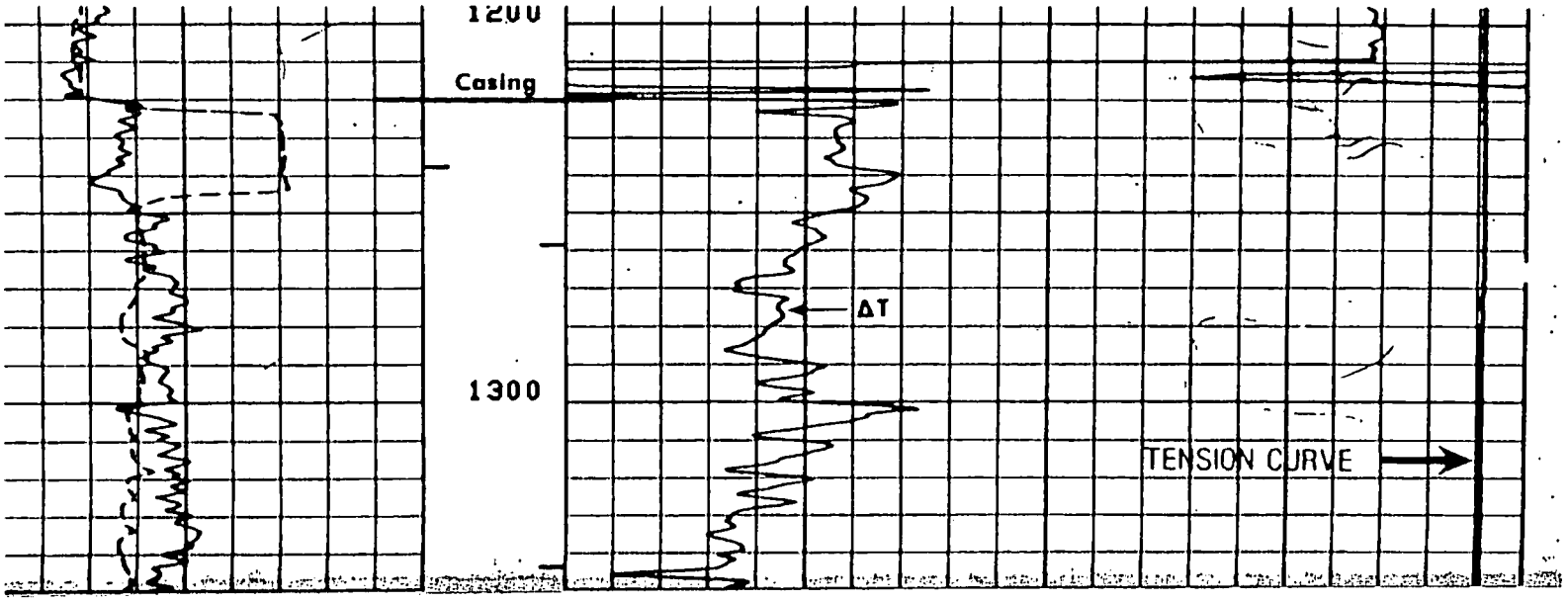
MAR02-0822

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
DTM	US/F	47.60	CDTS		100.0	BS	INCH	7.875
FPHI		PHIX	DTF	US/F	189.0			
DD		0.0	BHS		OPEN			

CALI(IN)		TENS(LB)
300 16.00		10000. 0.0
GR (GAPI)		DT (US/F)
0 200.0	140.0	40.00

FILE

4



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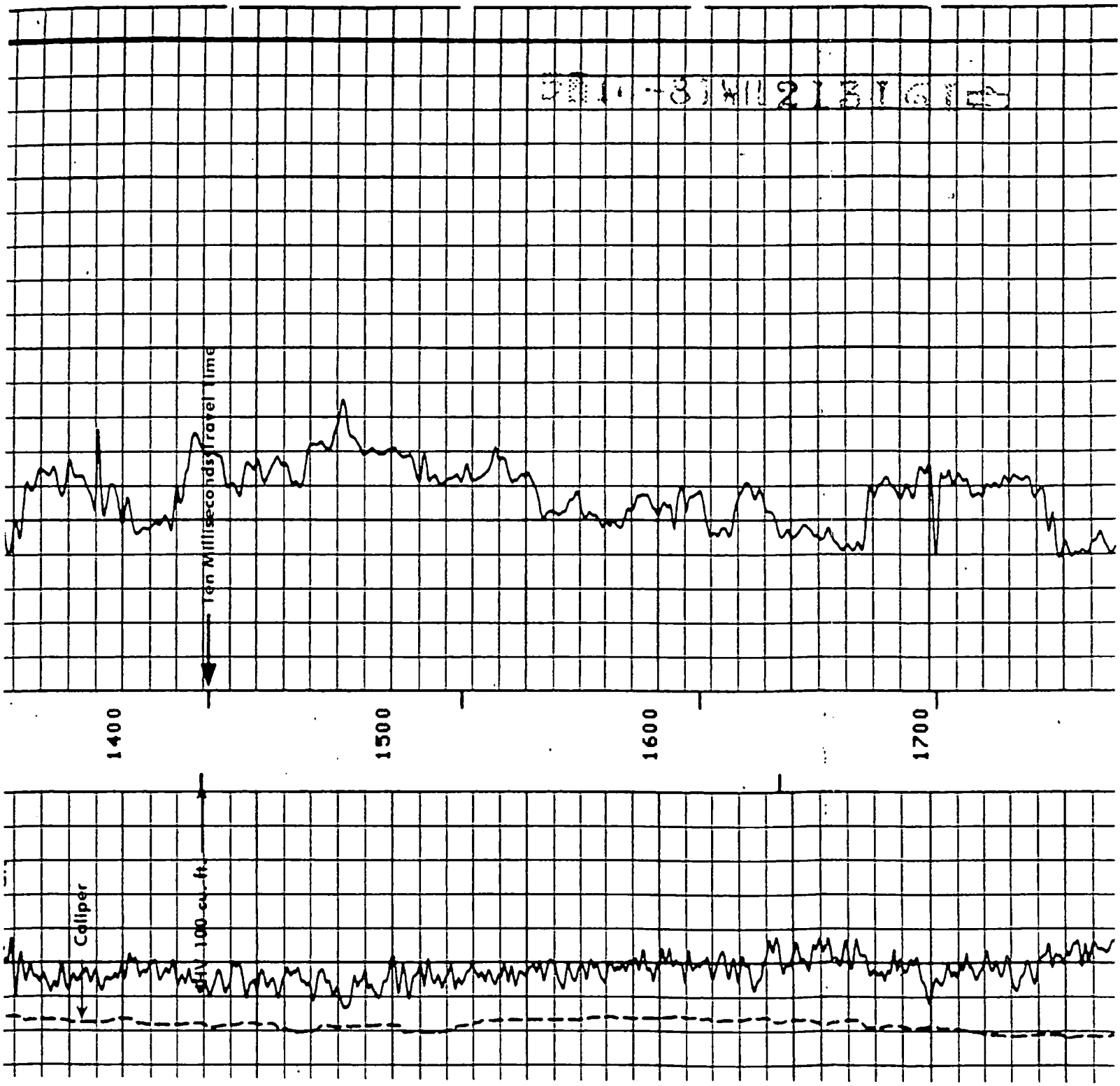
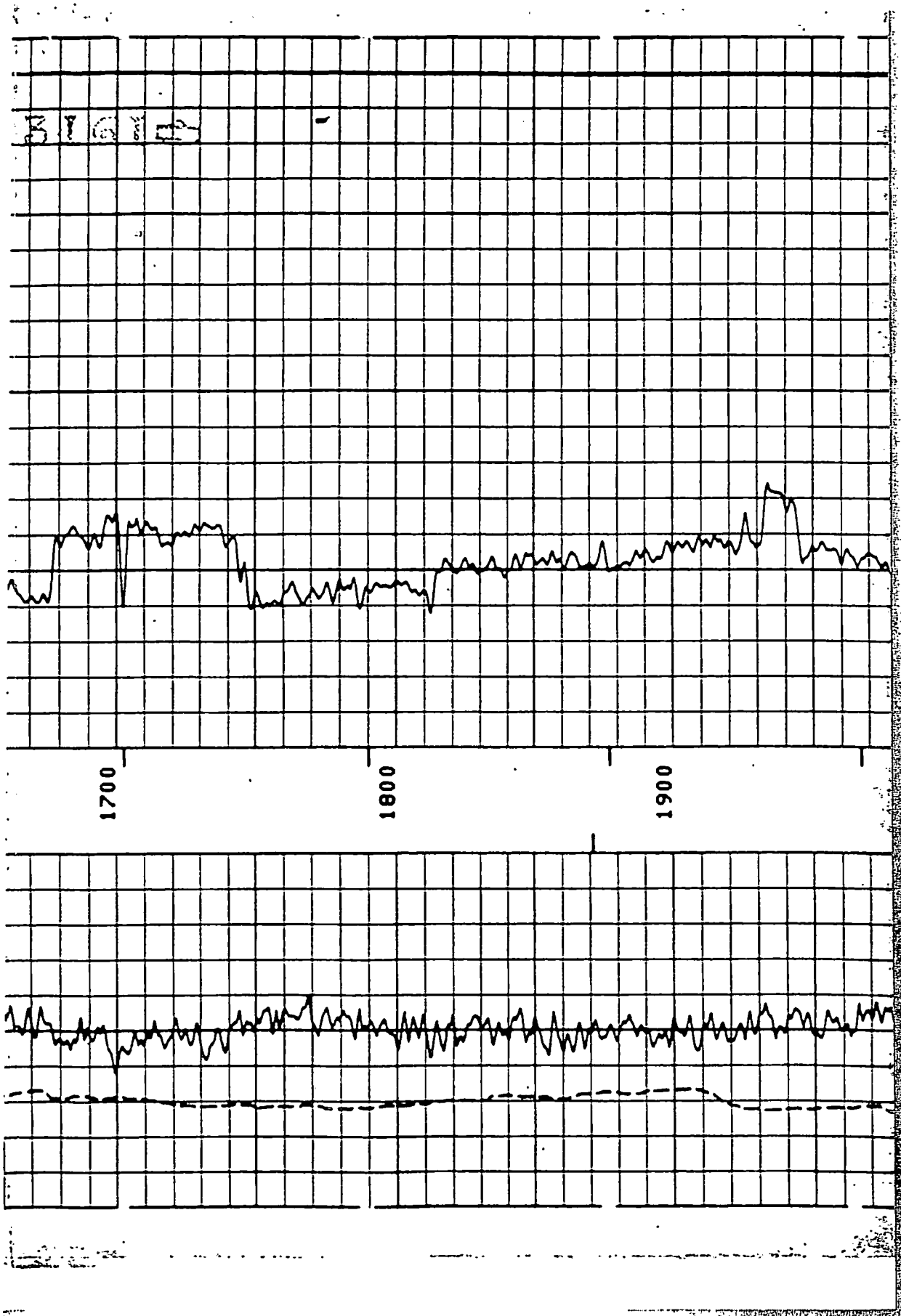

Ten Milliseconds Travel Time
1400
1500
1600
1700
Caliper
100 cu. ft.

MAR02-0824



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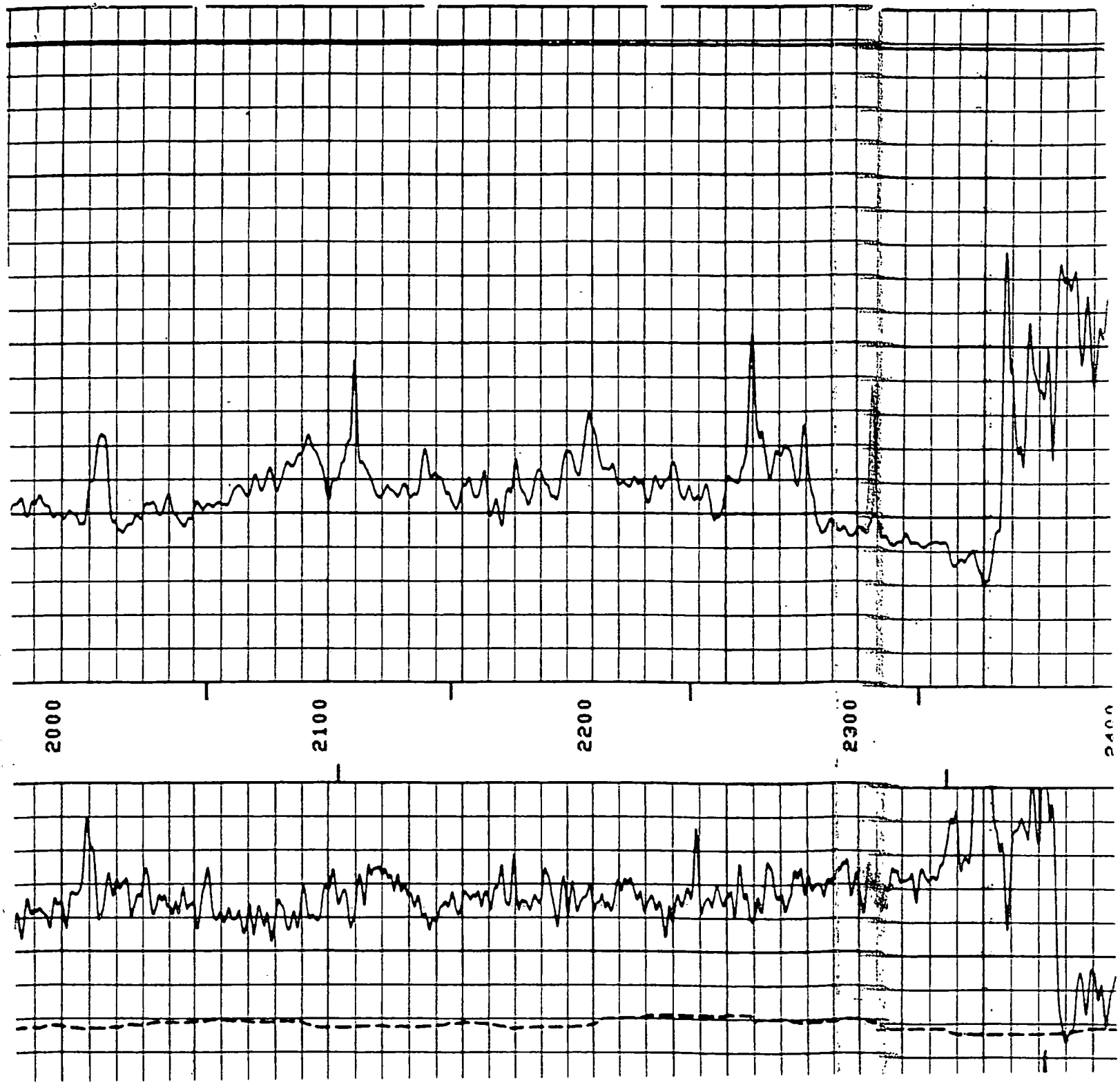

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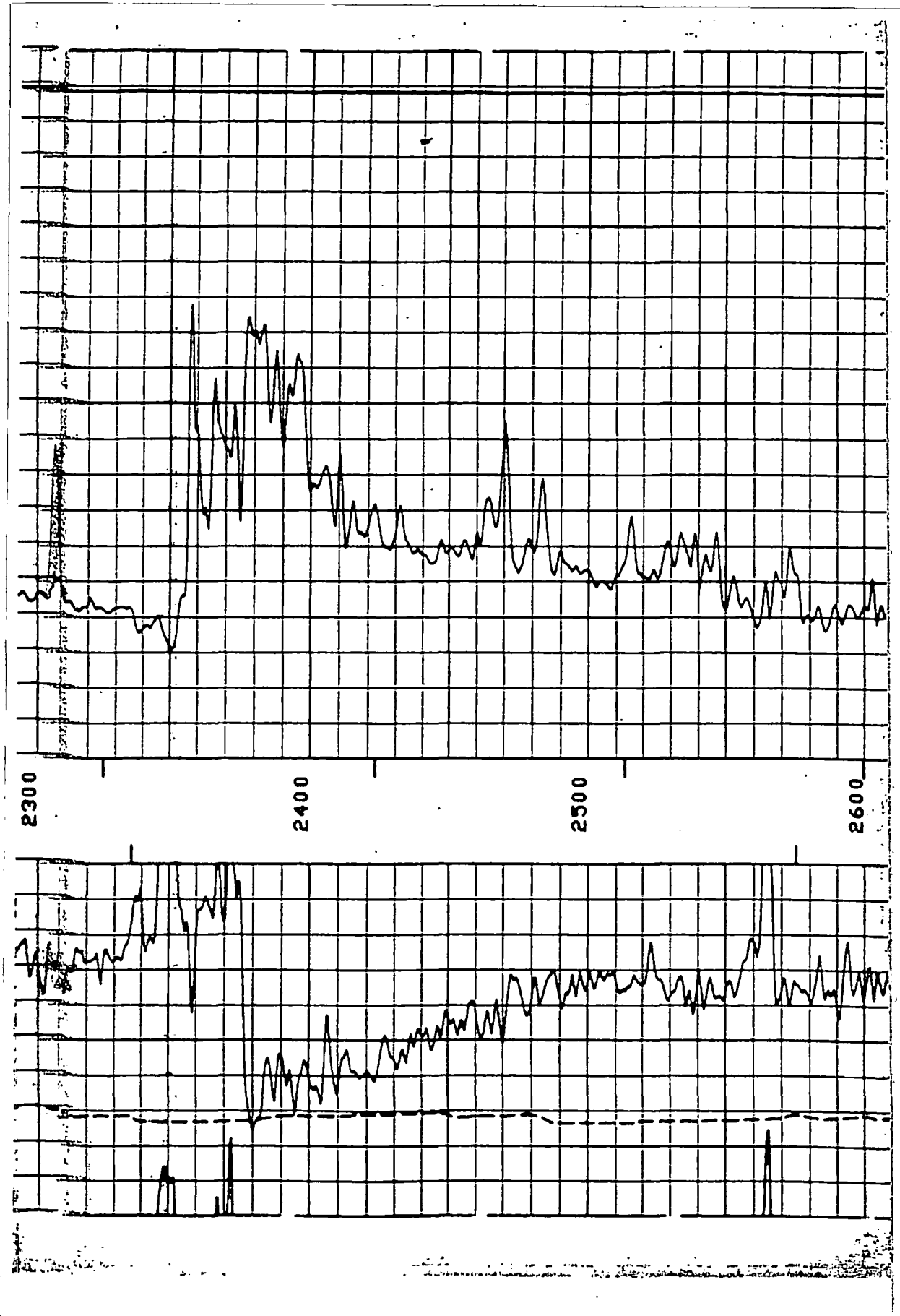

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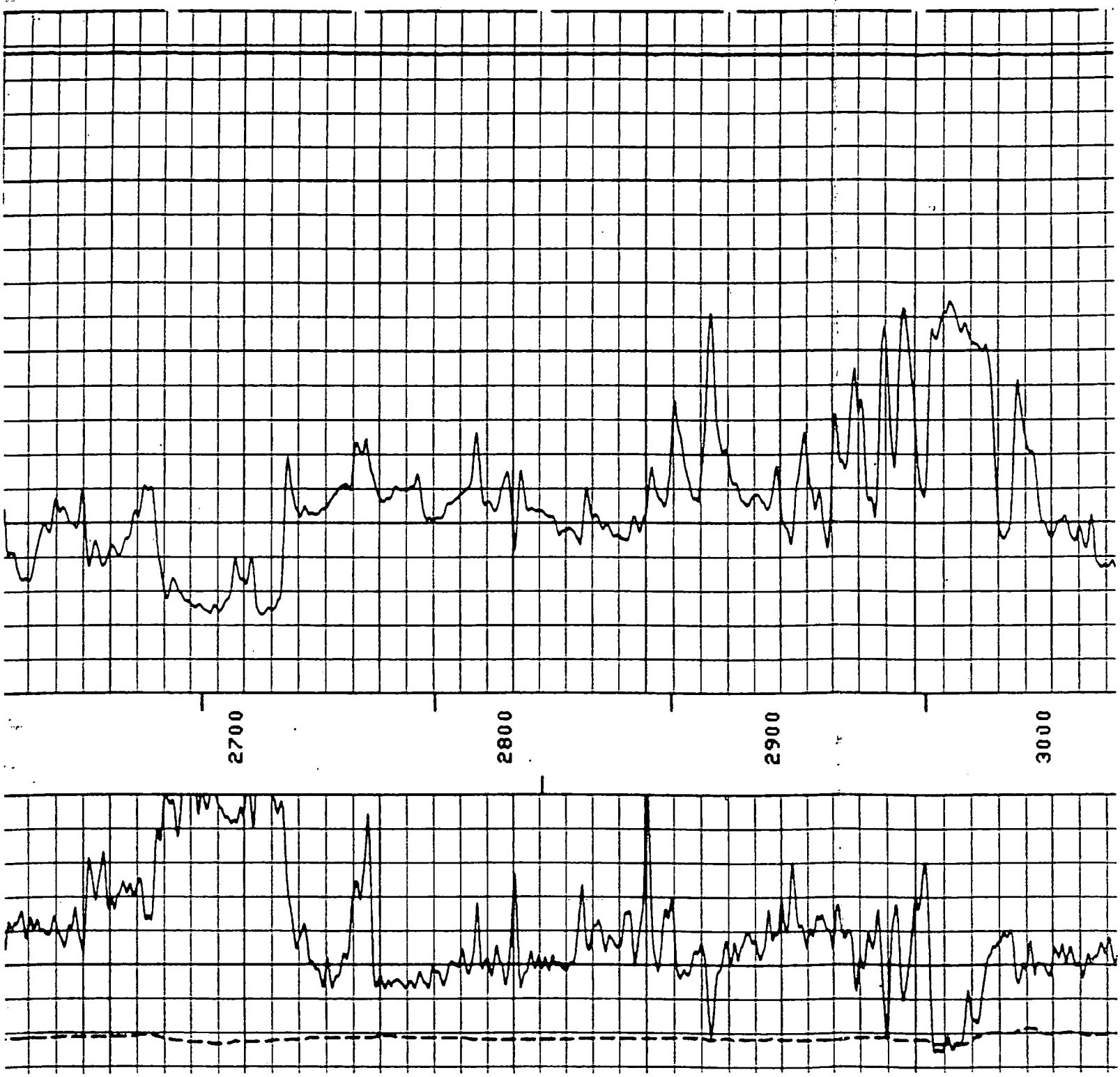

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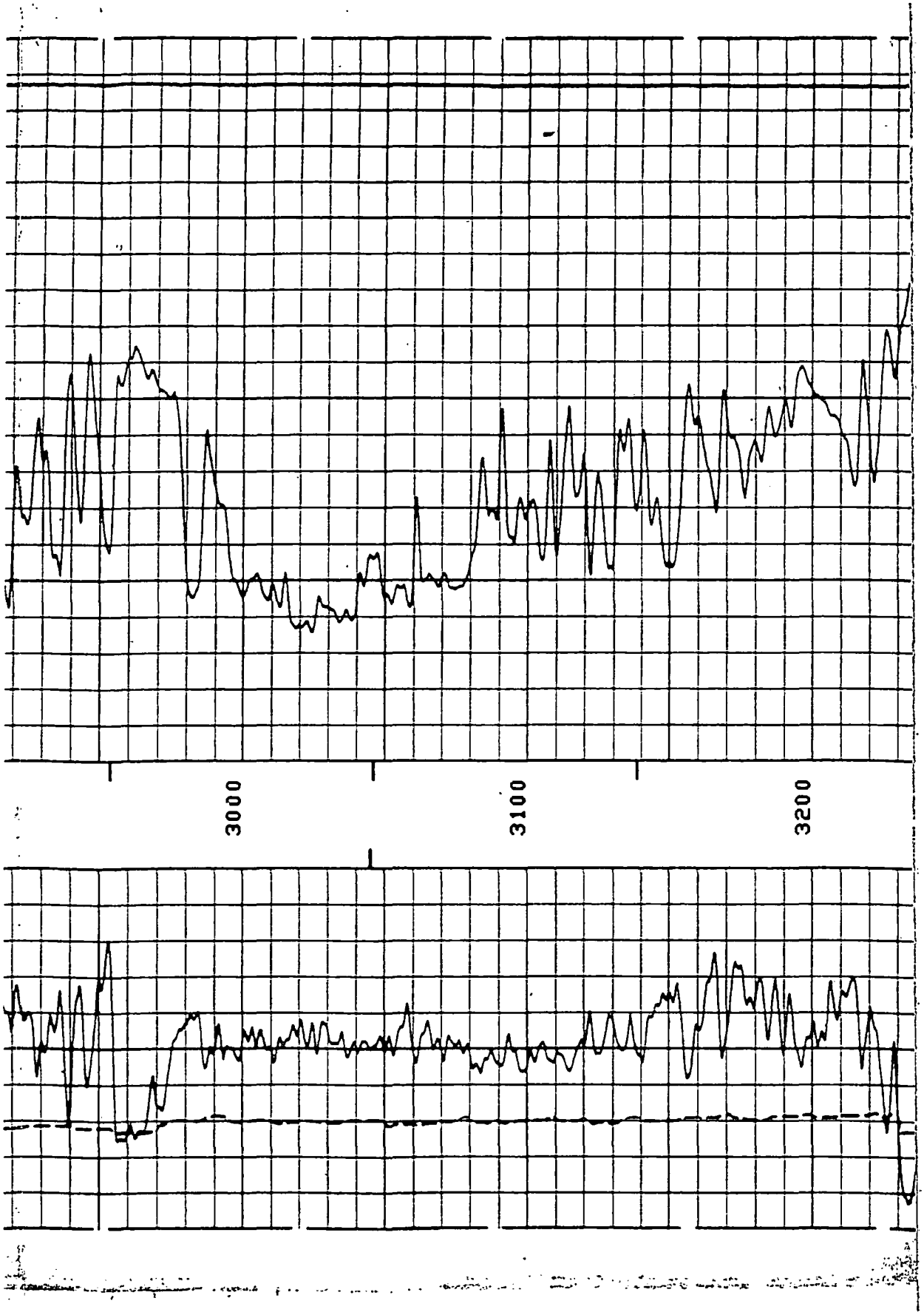

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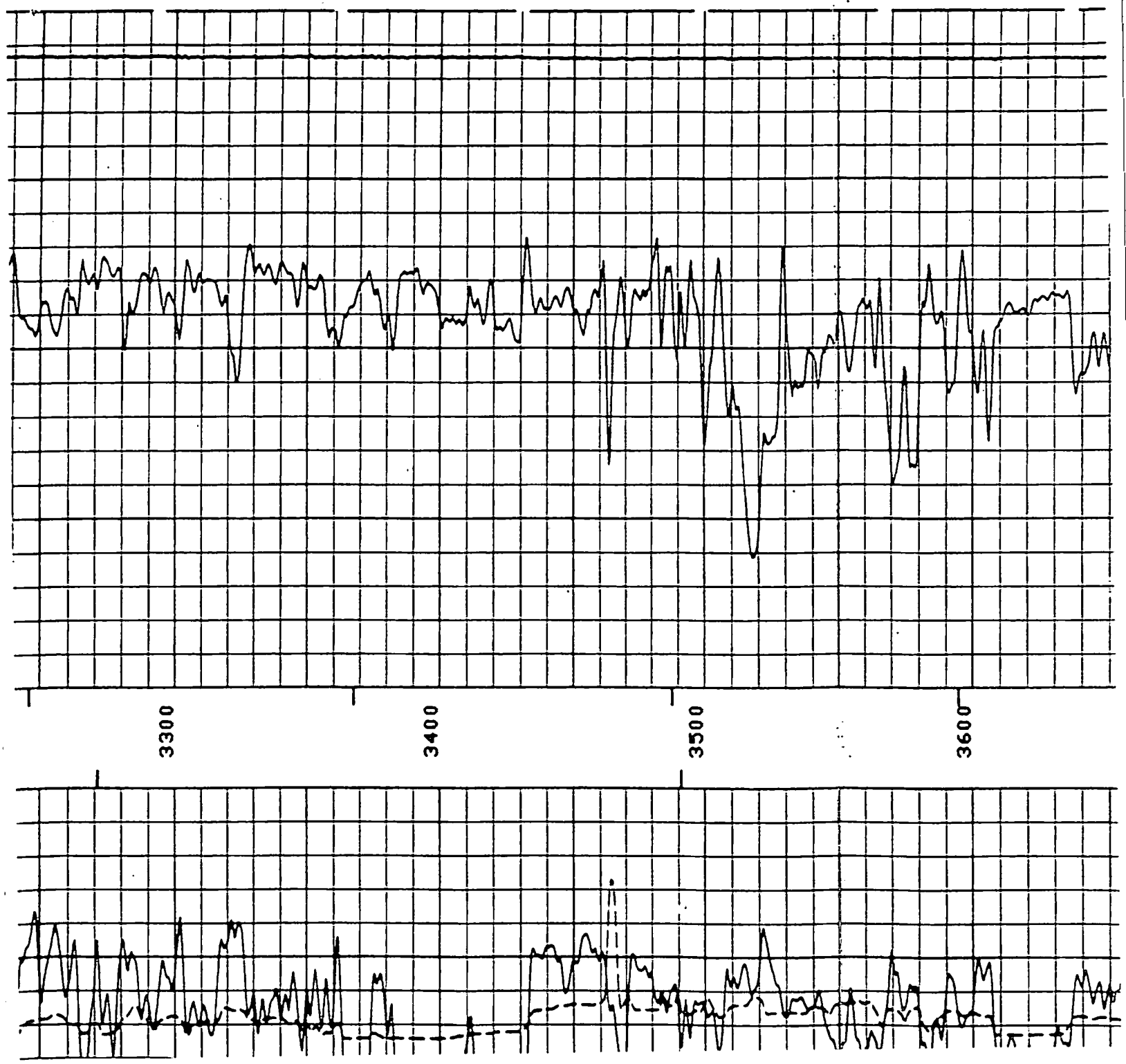

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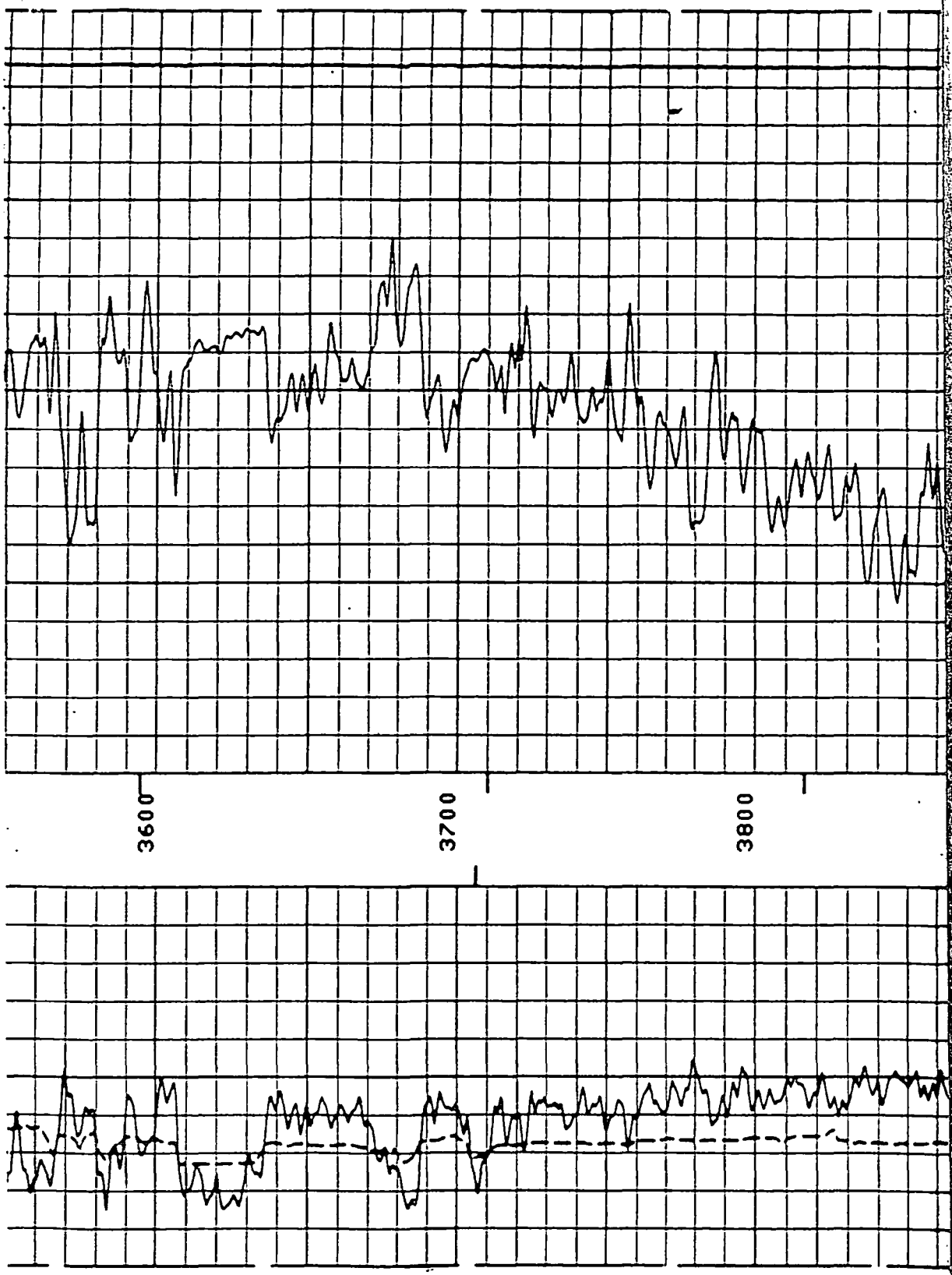

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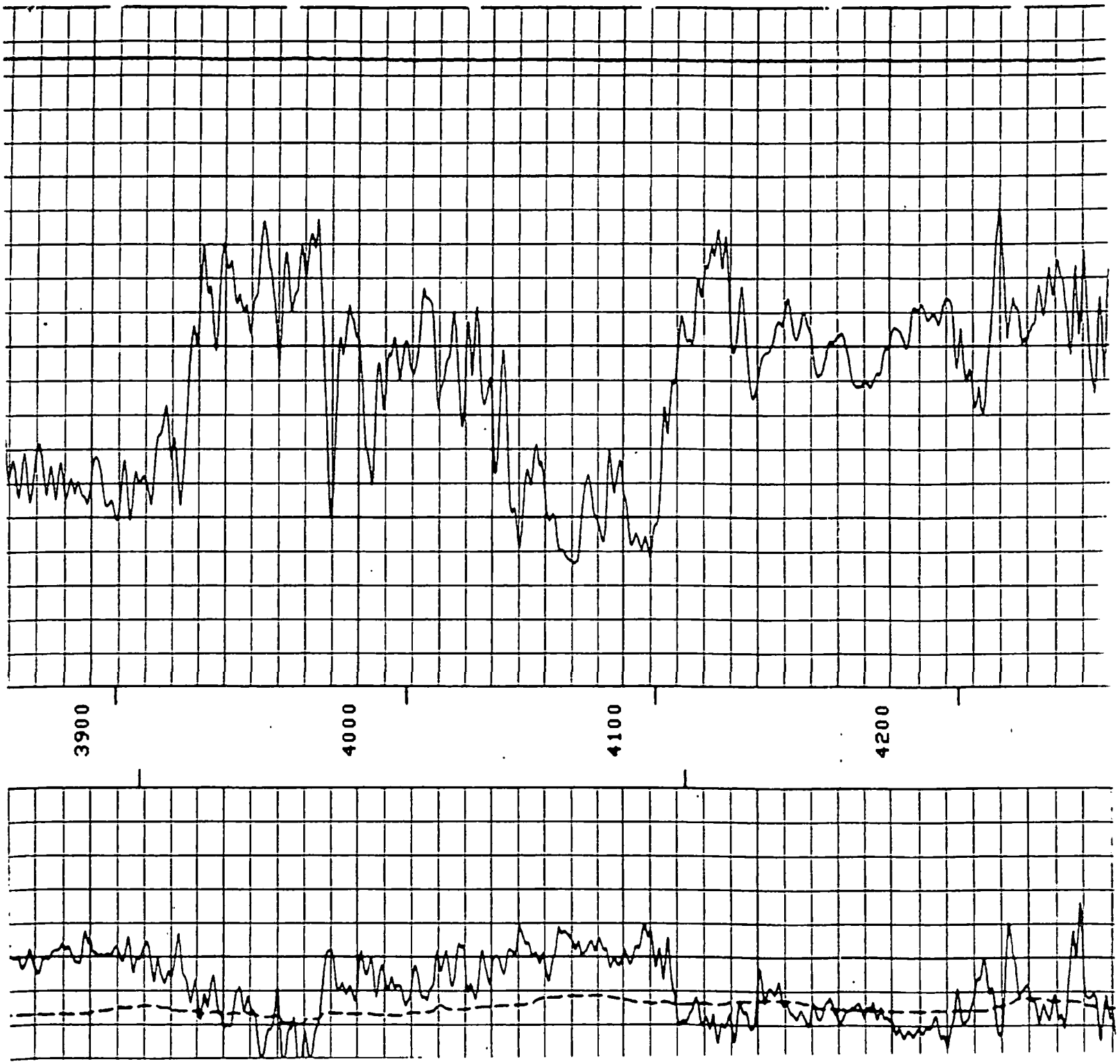

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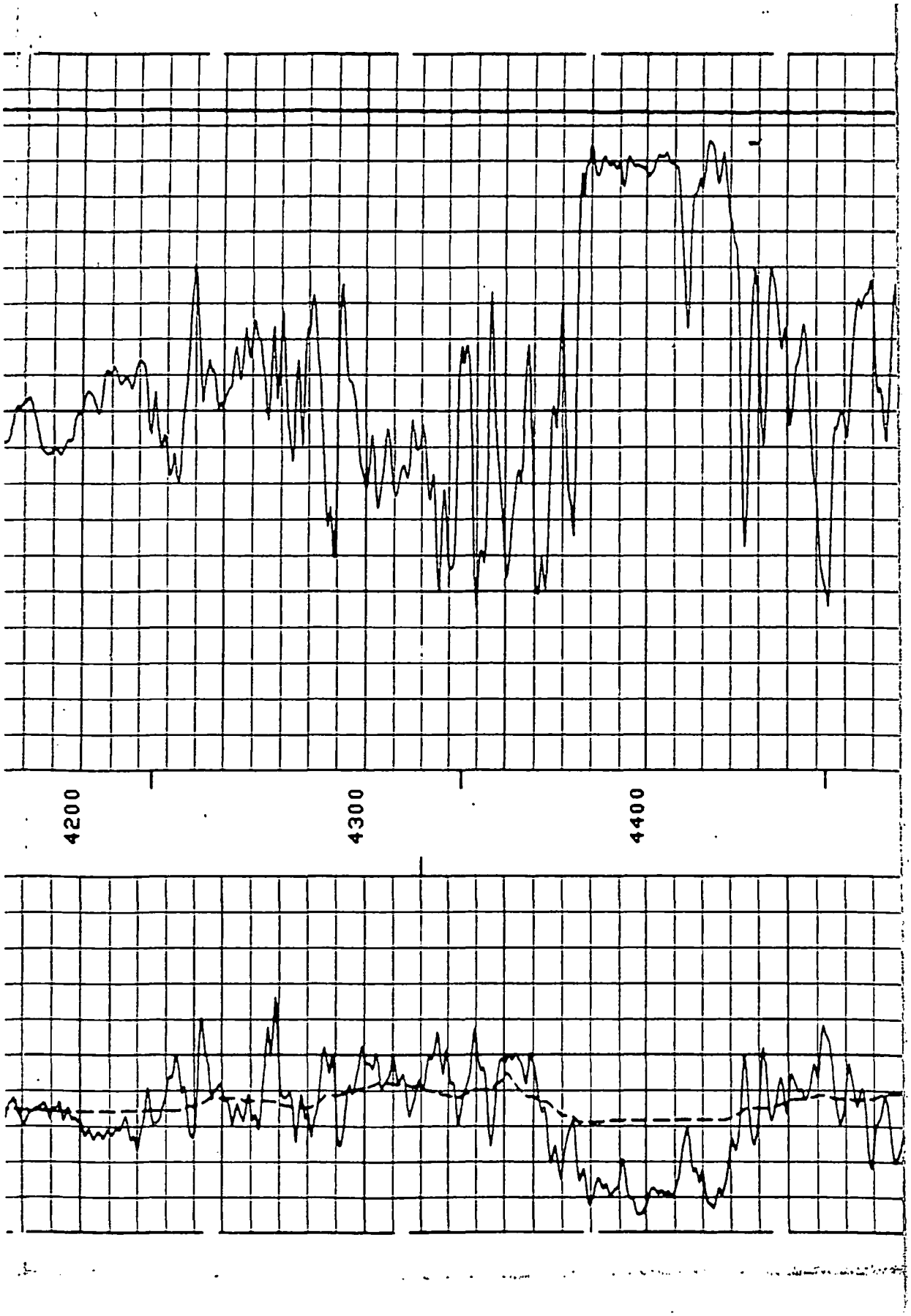

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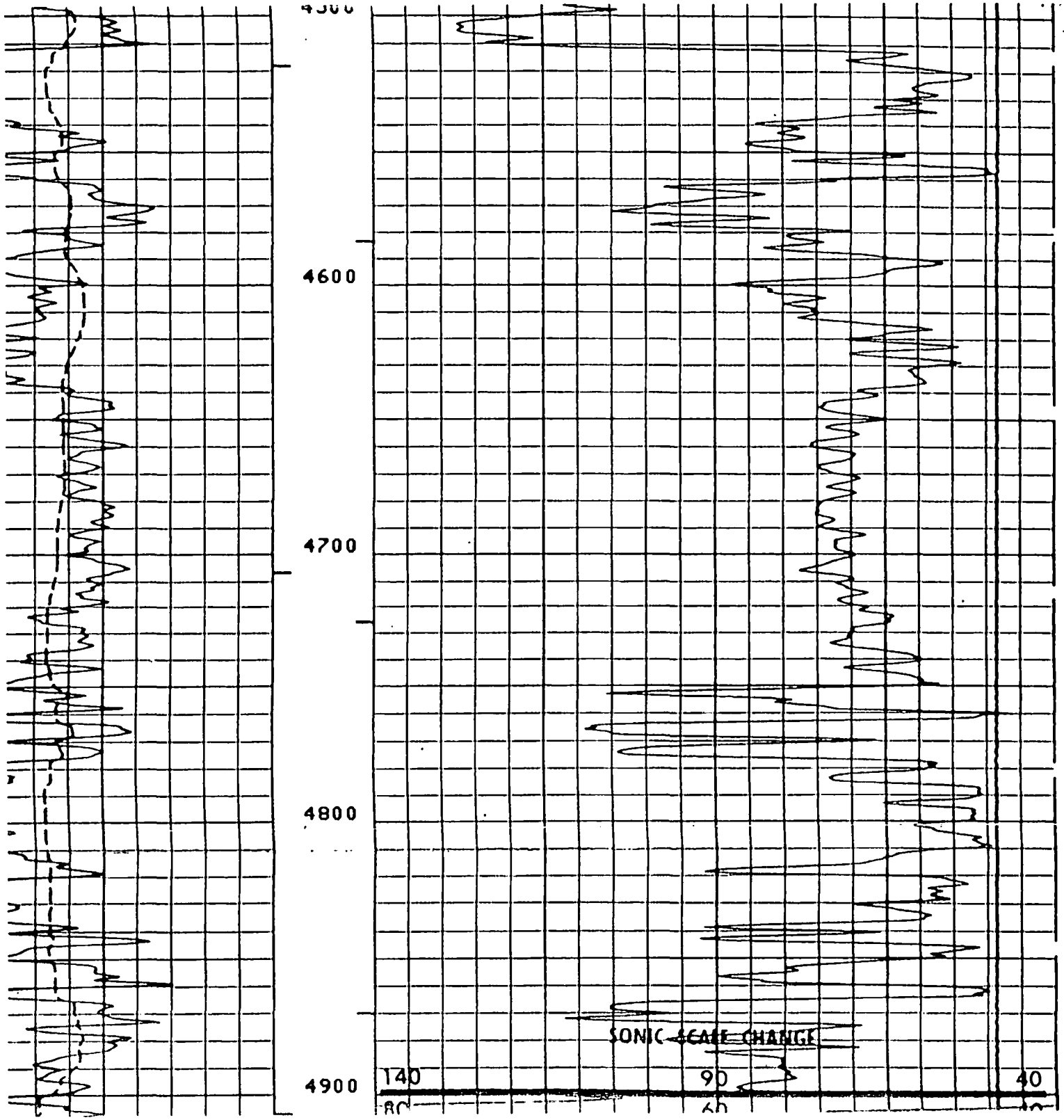

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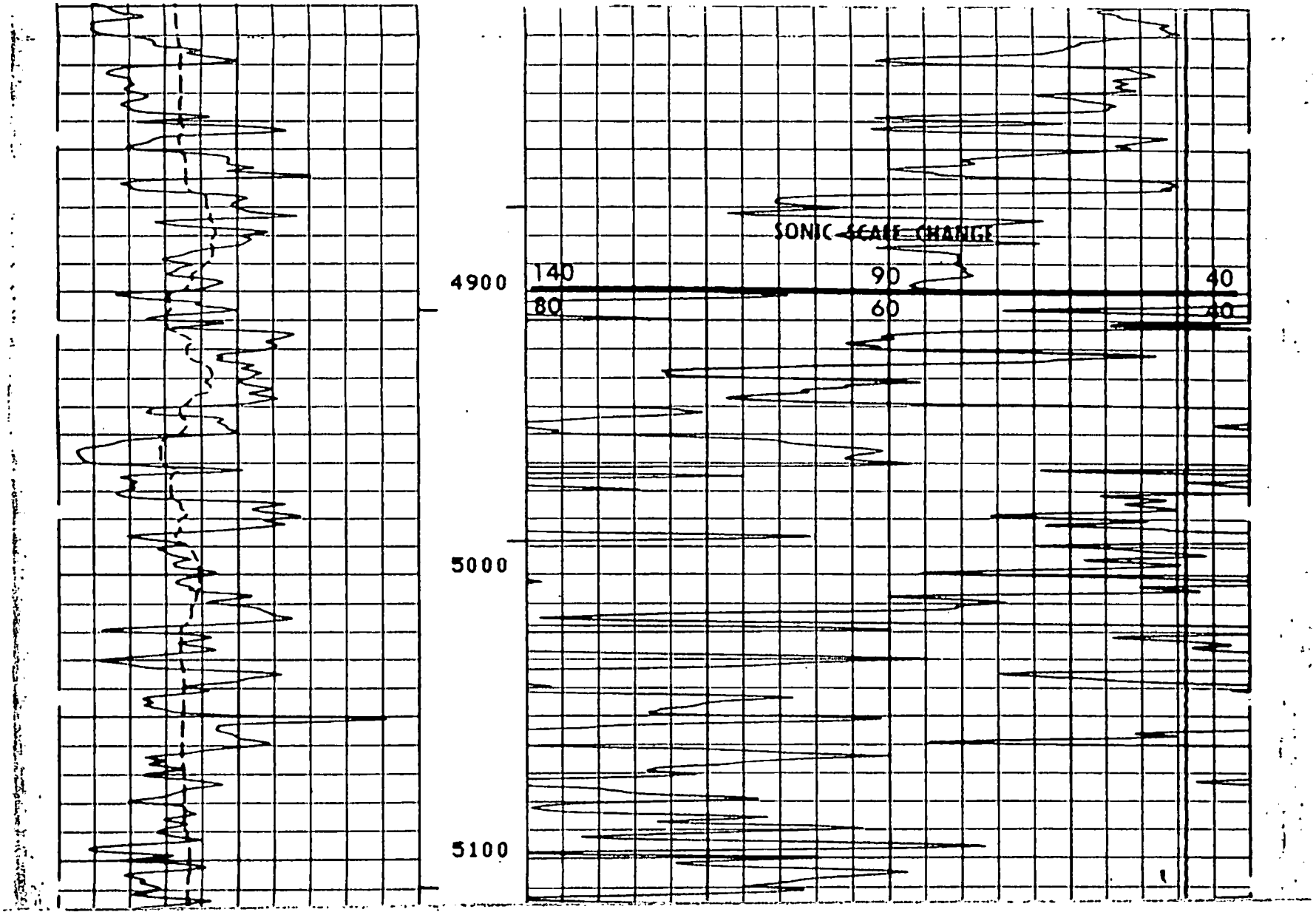

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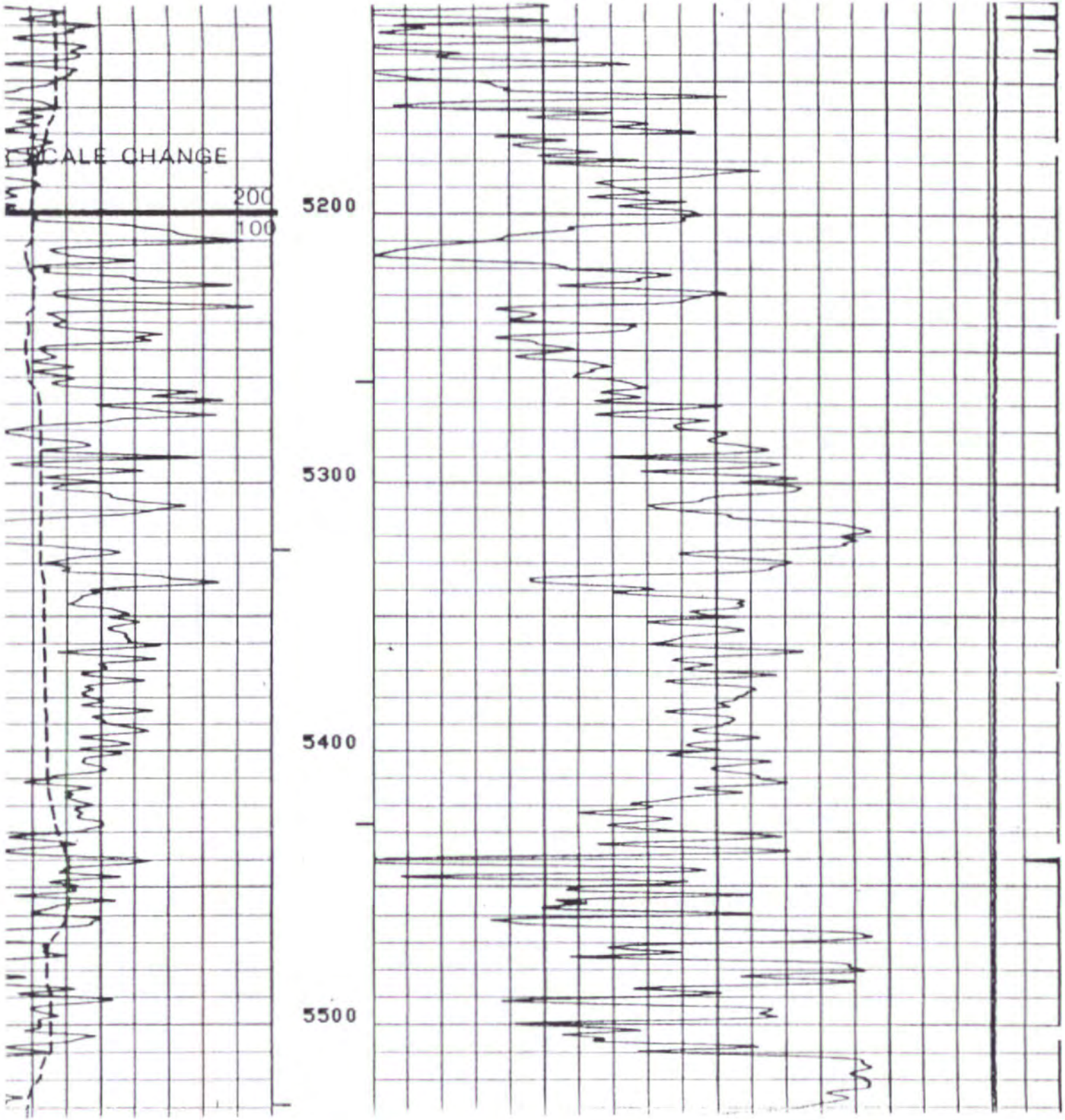
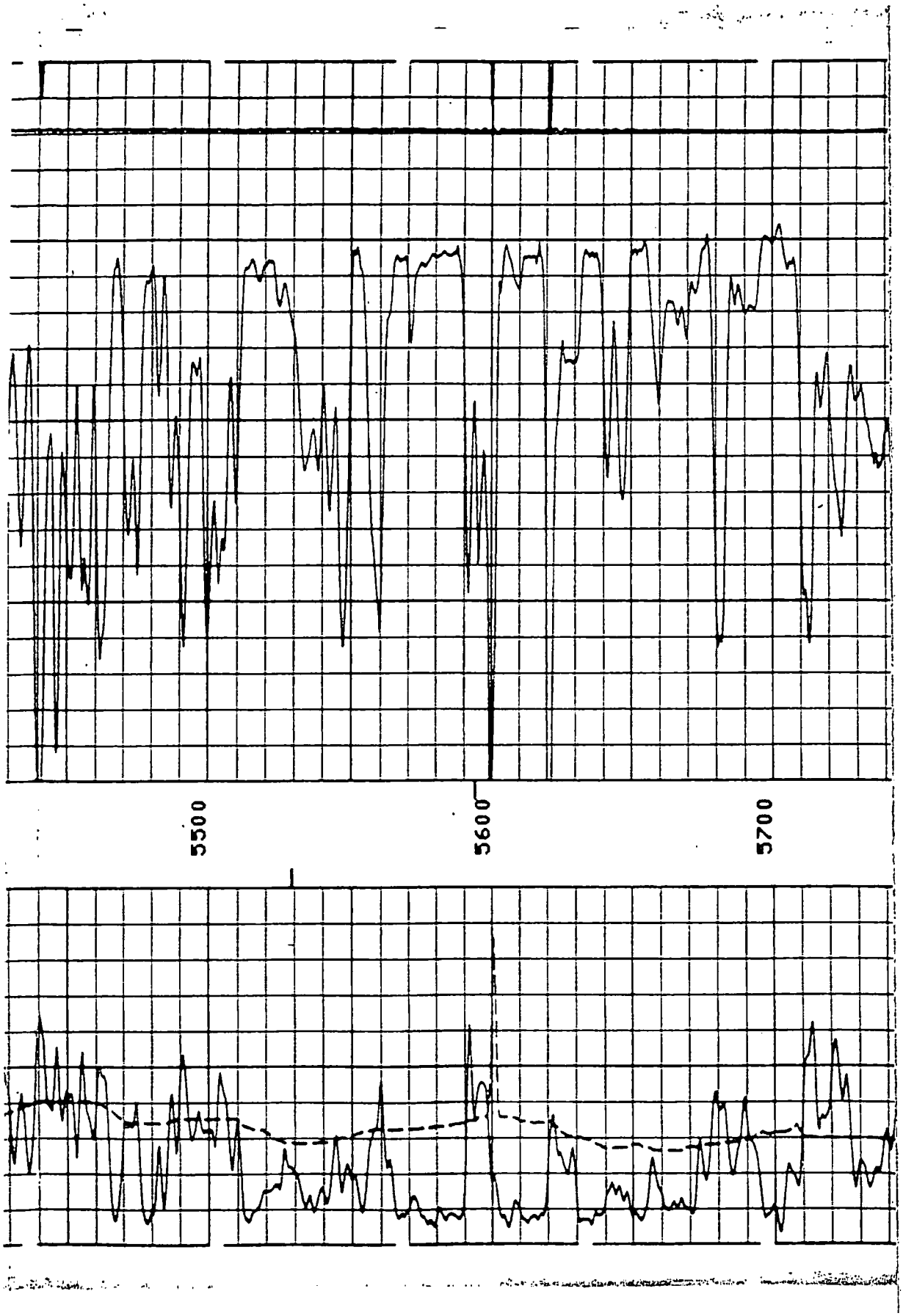

SCALE CHANGE
200
100
5200
5300
5400
5500



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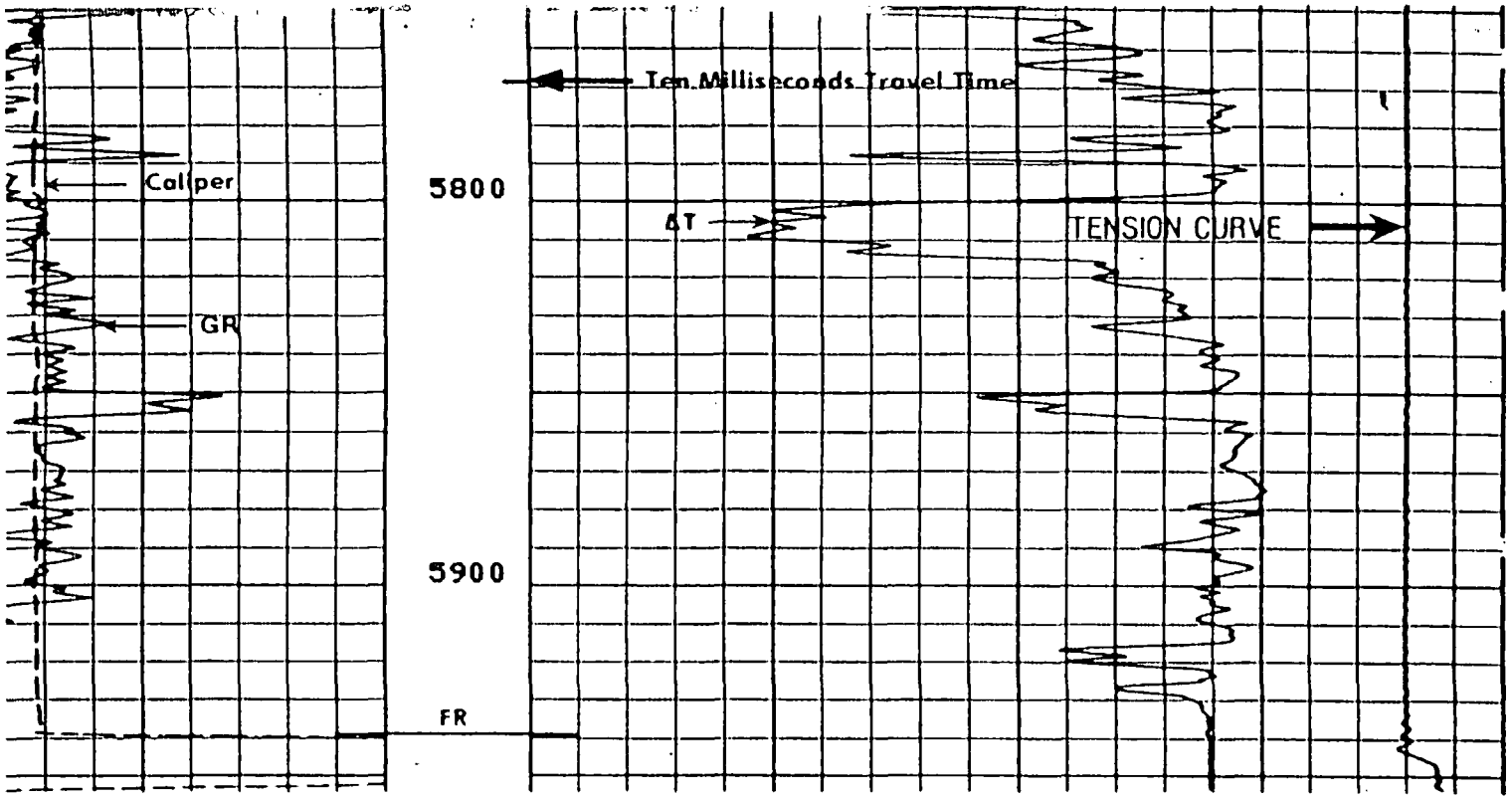


FILE

4

CALI(IN)			TENS(LB)
0 16.00			10000. 0.0
GR (GAPI)		DT (US/F)	
100.0		80.00	40.00

PARAMETERS

AME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
TM	US/F	47.60	CDTS		100.0	BS	INCH	7.875
PHI		PHIX	DTF	US/F	189.0			
J		0.0	BHS		OPEN			

MAR02-0838

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
DTM	US/F	47.60	CDTS		100.0	BS	INCH	7.875
FPHI		PHIX	DTF	US/F	189.0			
DO		0.0	BHS		OPEN			

PARAMETERS

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
DTM	US/F	47.60	CDTS		100.0	BS	INCH	7.875
FPHI		PHIX	DTF	US/F	189.0			
DO		0.0	BHS		OPEN			

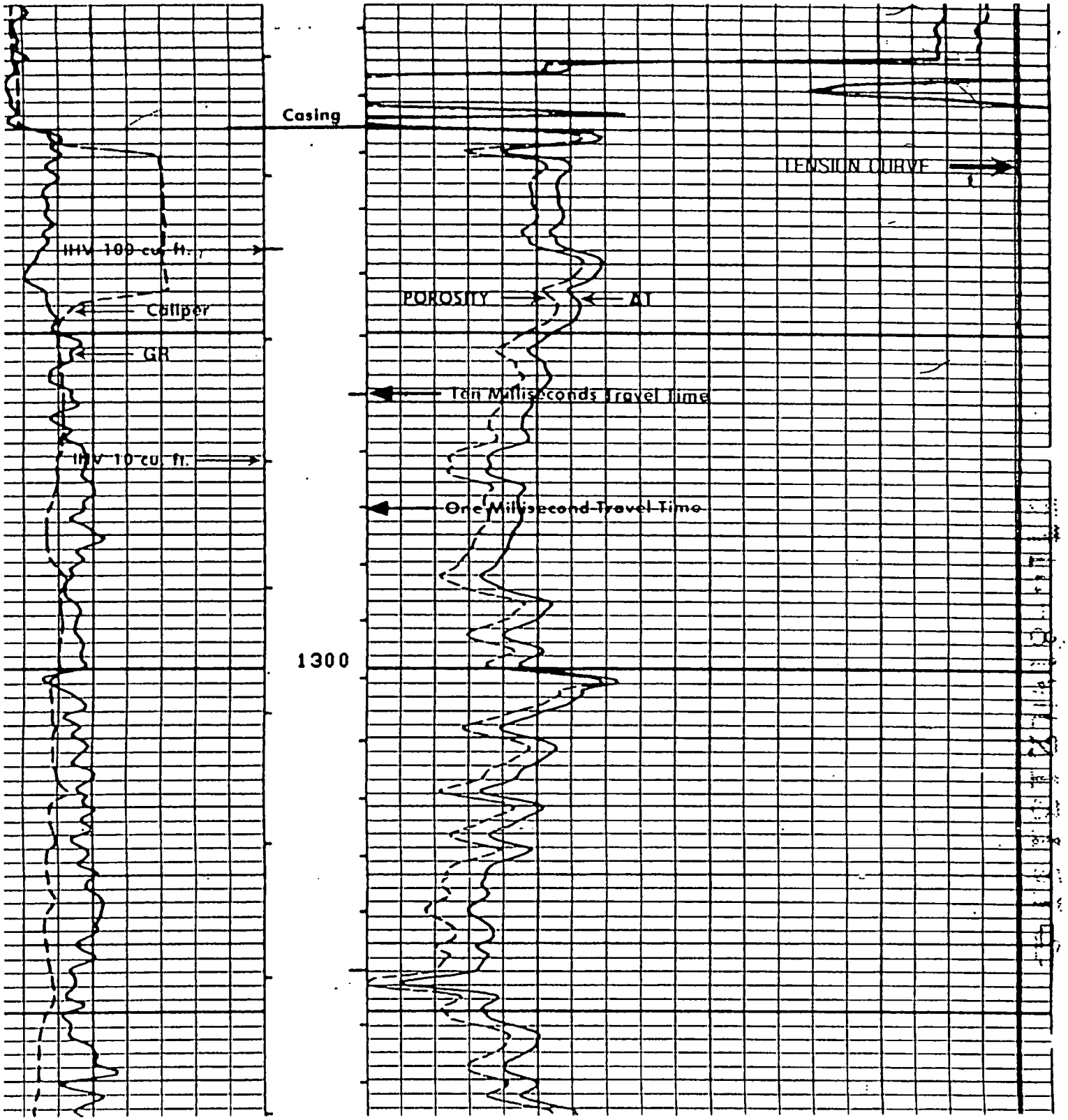
		TENS(LB) 10000. 0.0
CALI(IN) 6.000 16.00		SPHI( ) LIMESTONE 0.6000 0.0
GR (GAPI) 0.0 200.0		DT (US/F) 140.0 40.00

FILE

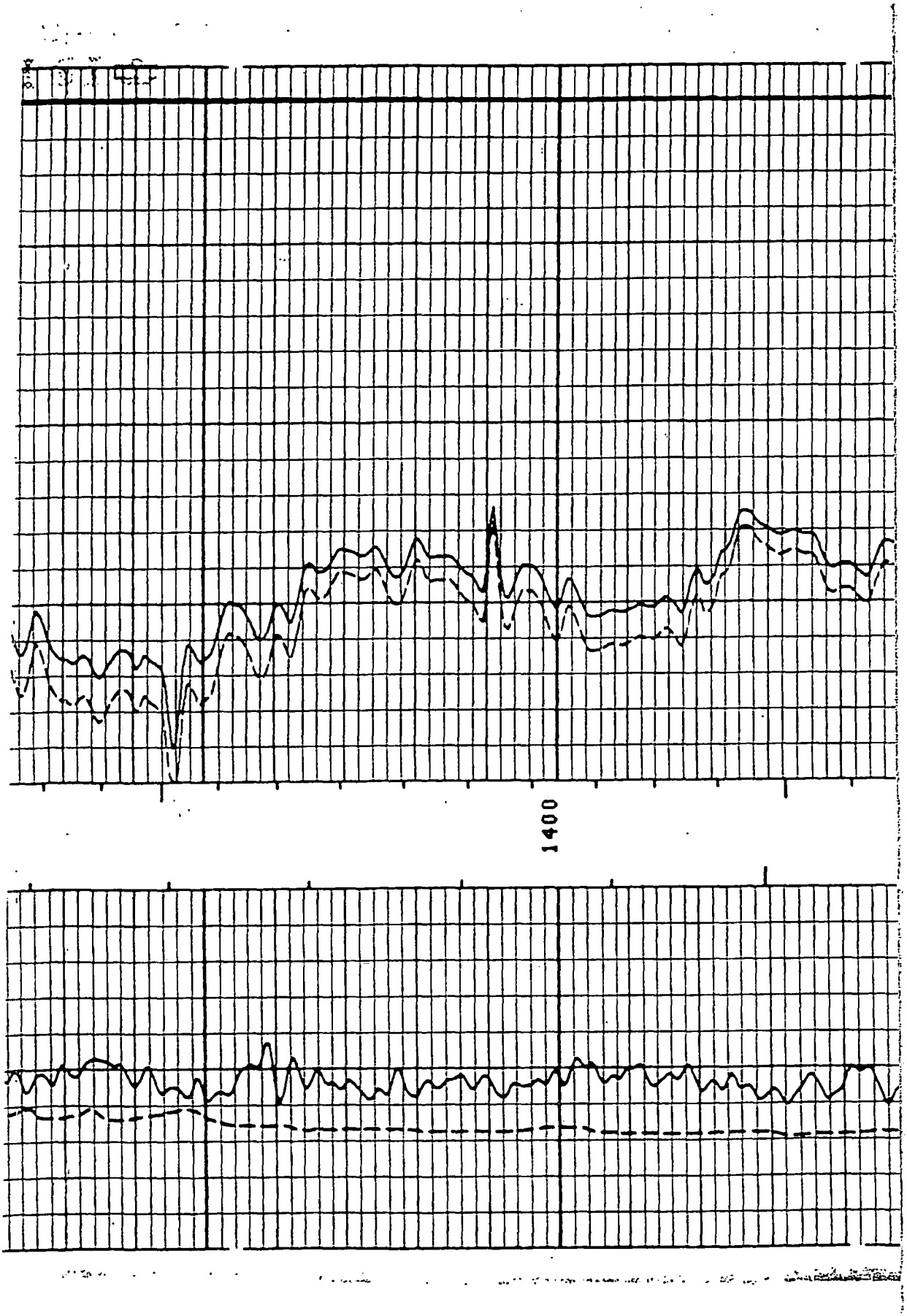
4

1800

MAR02-0839


Casing
TENSION CURVE
IHV 100 cu. ft.
Caliper
GR
POROSITY
AT
Ten Milliseconds Travel Time
IHV 10 cu. ft.
One Millisecond Travel Time
1300

MAR02-0840



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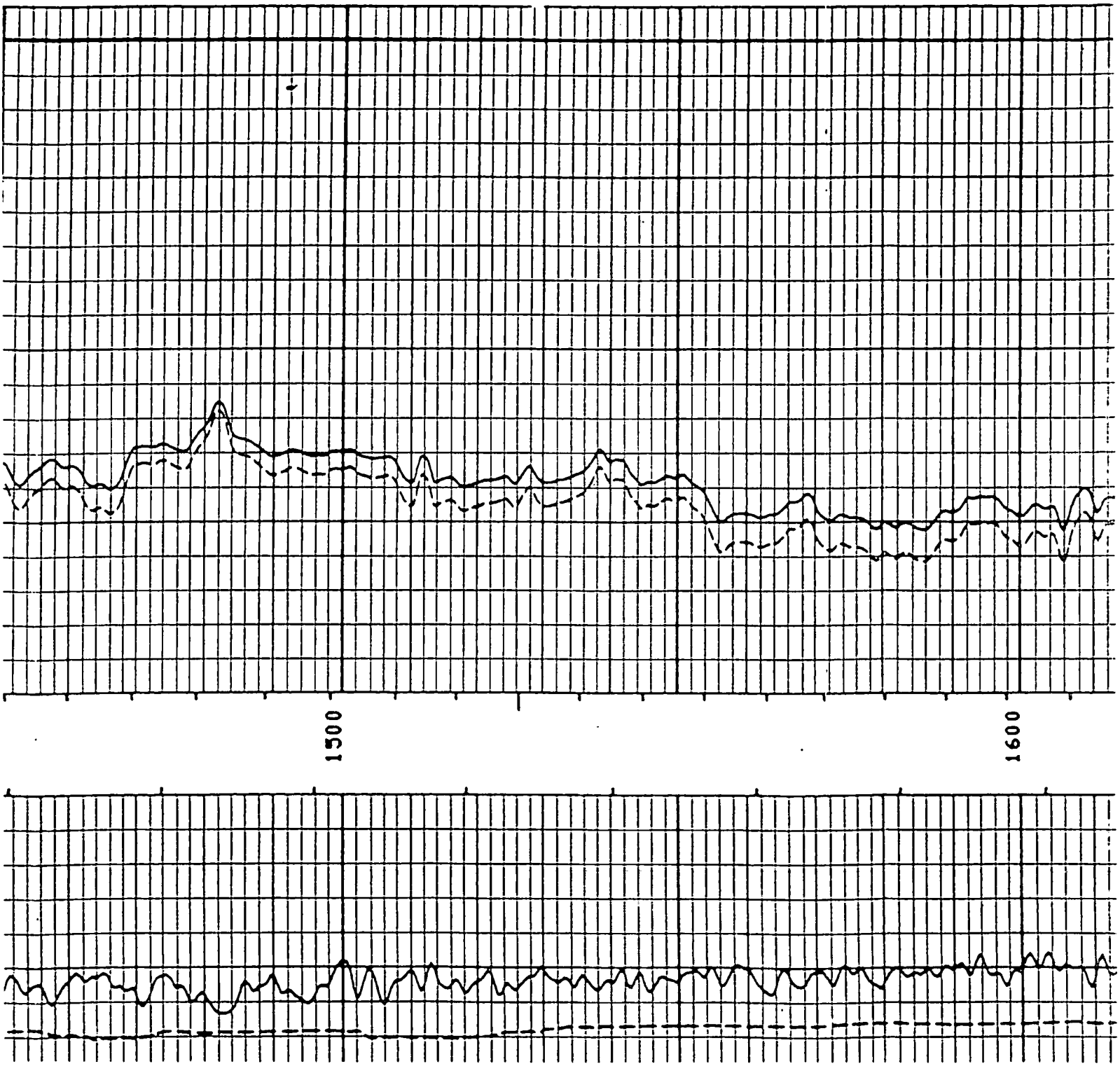

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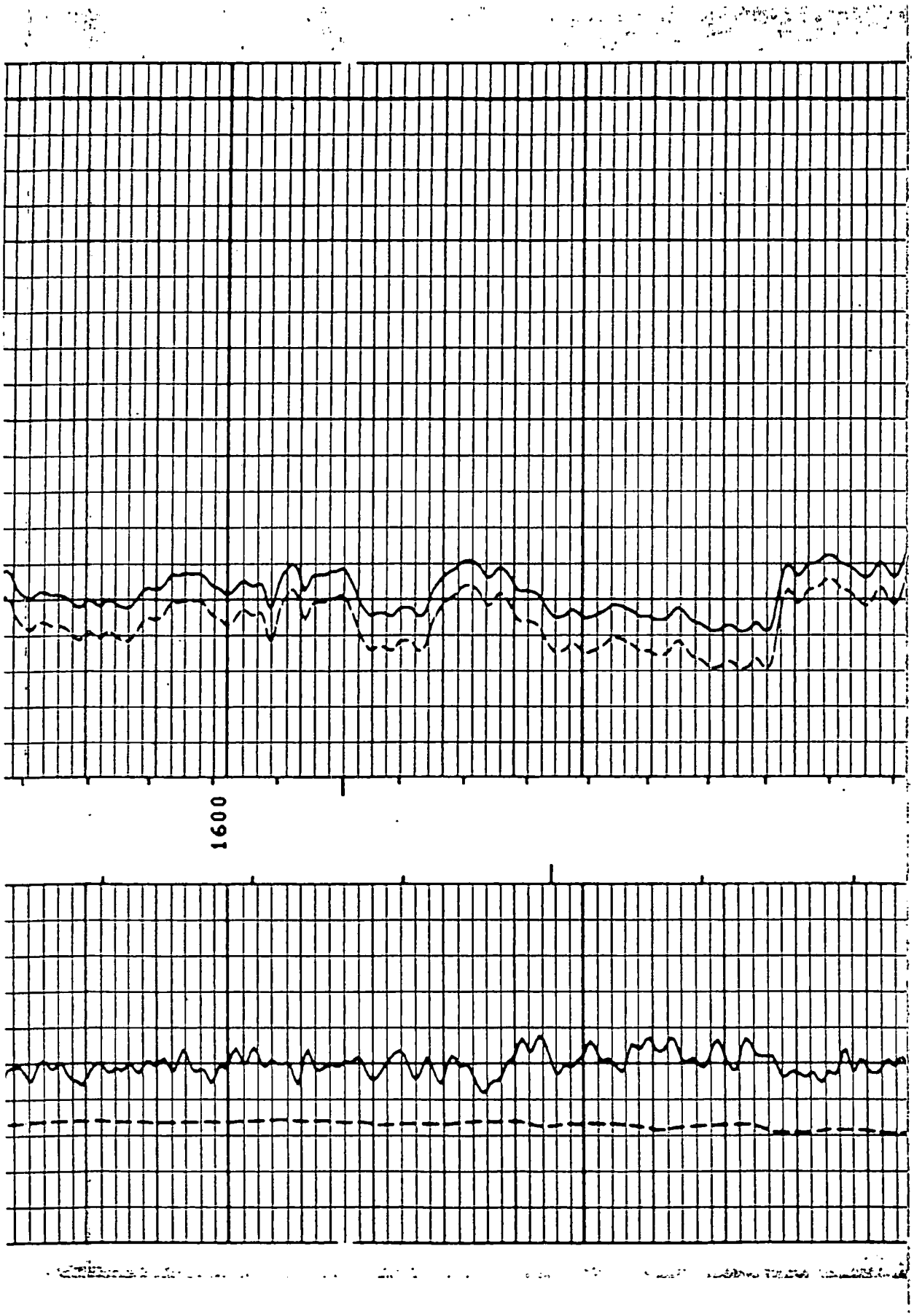

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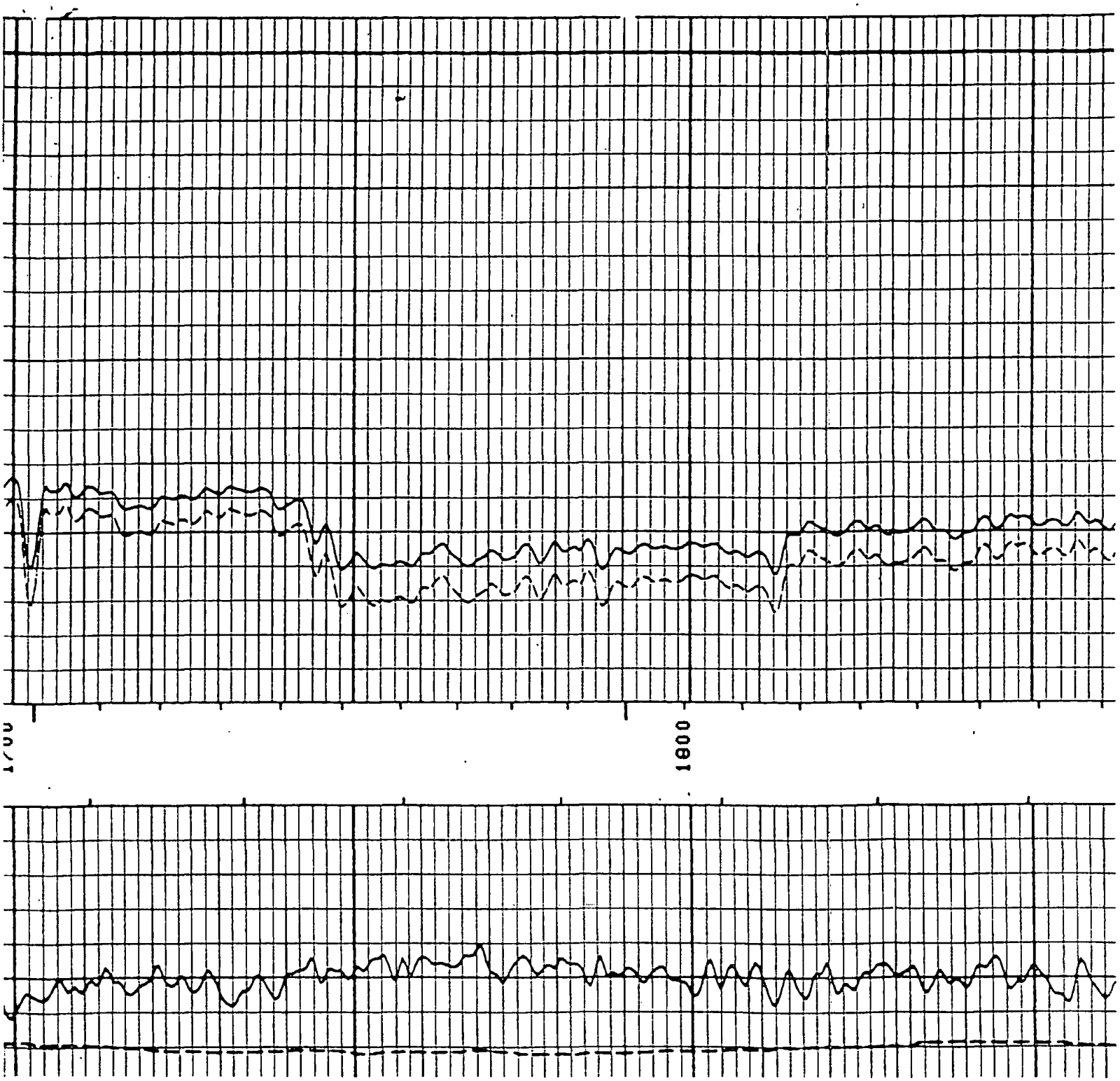

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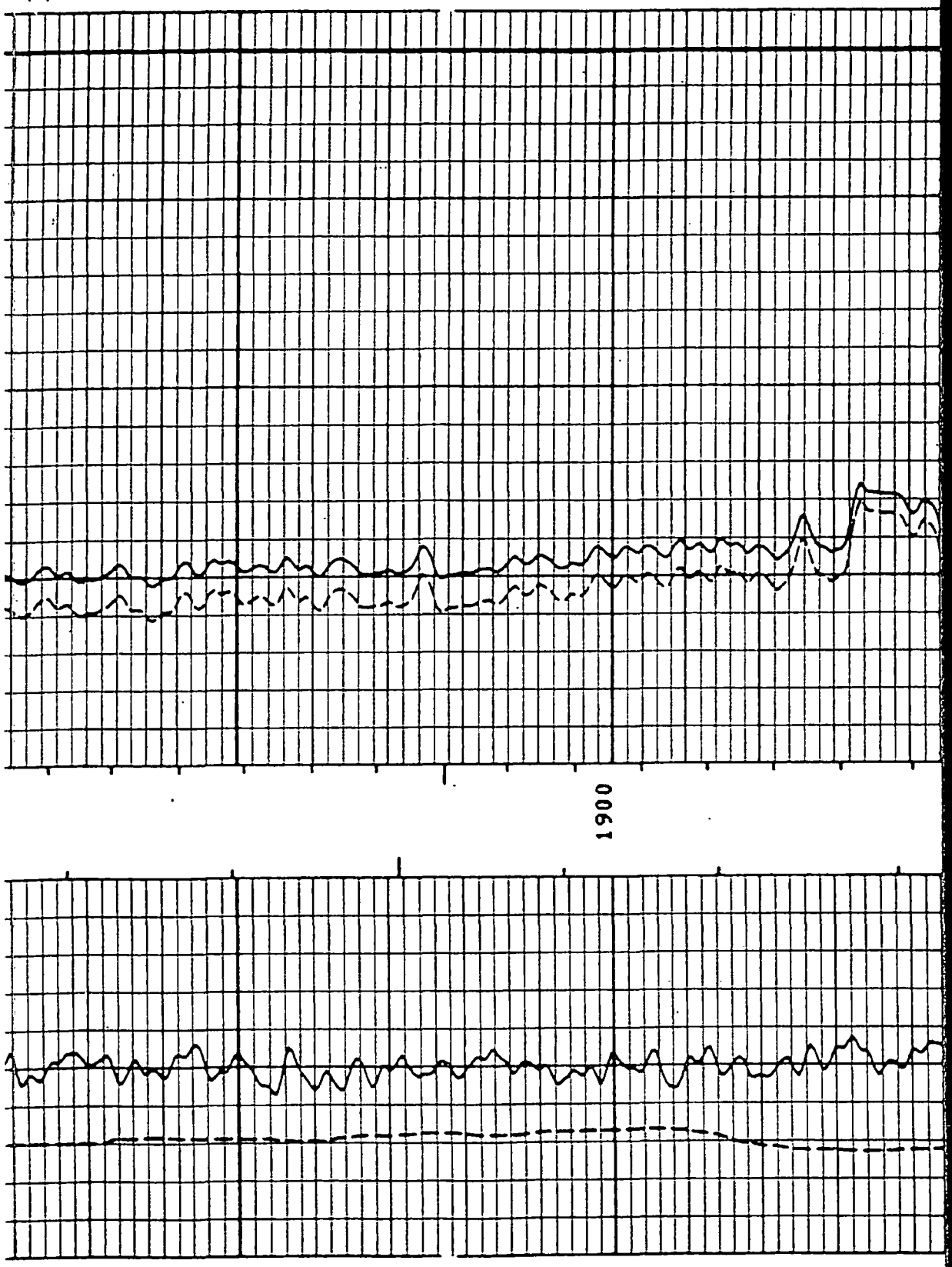

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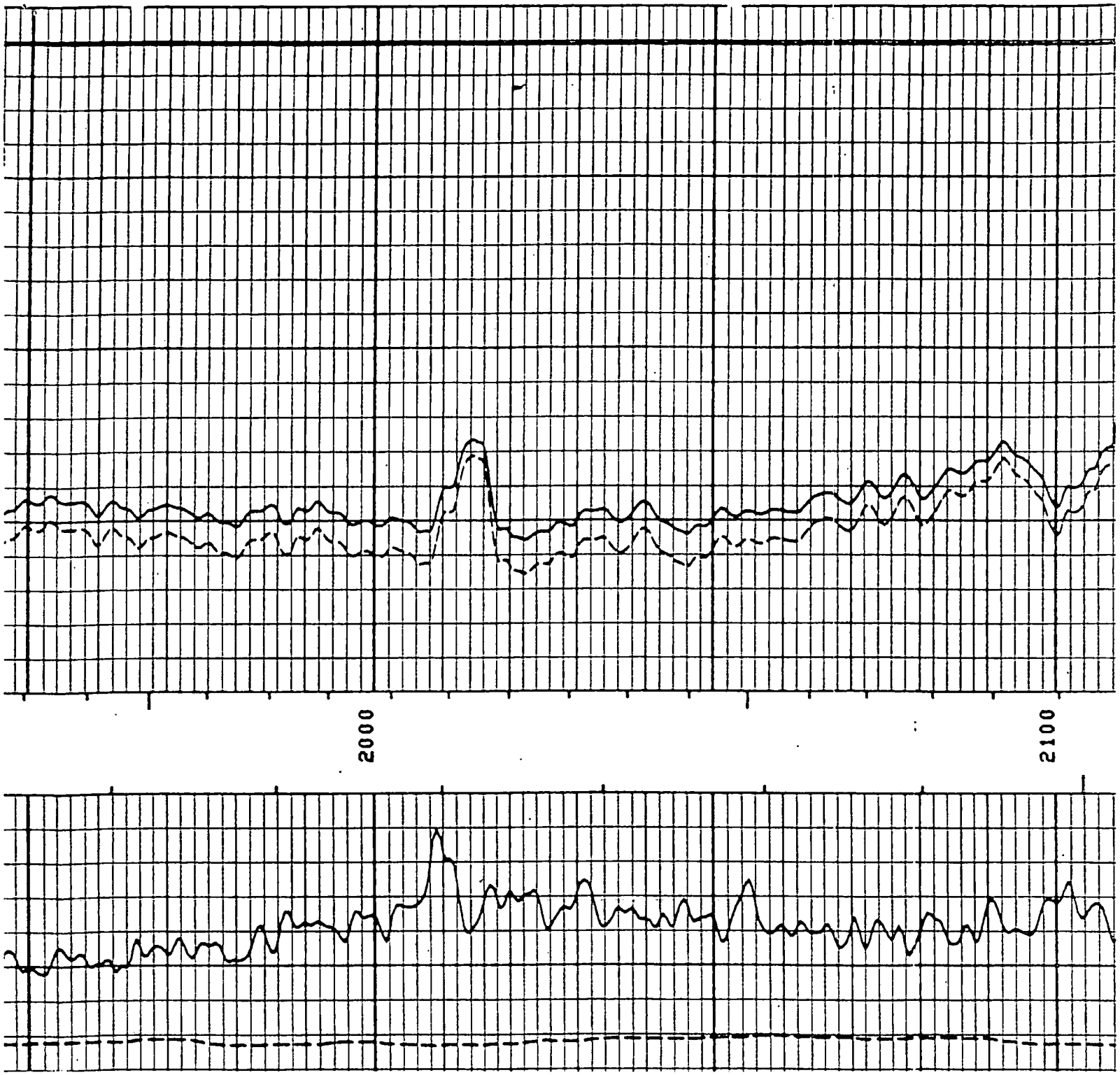

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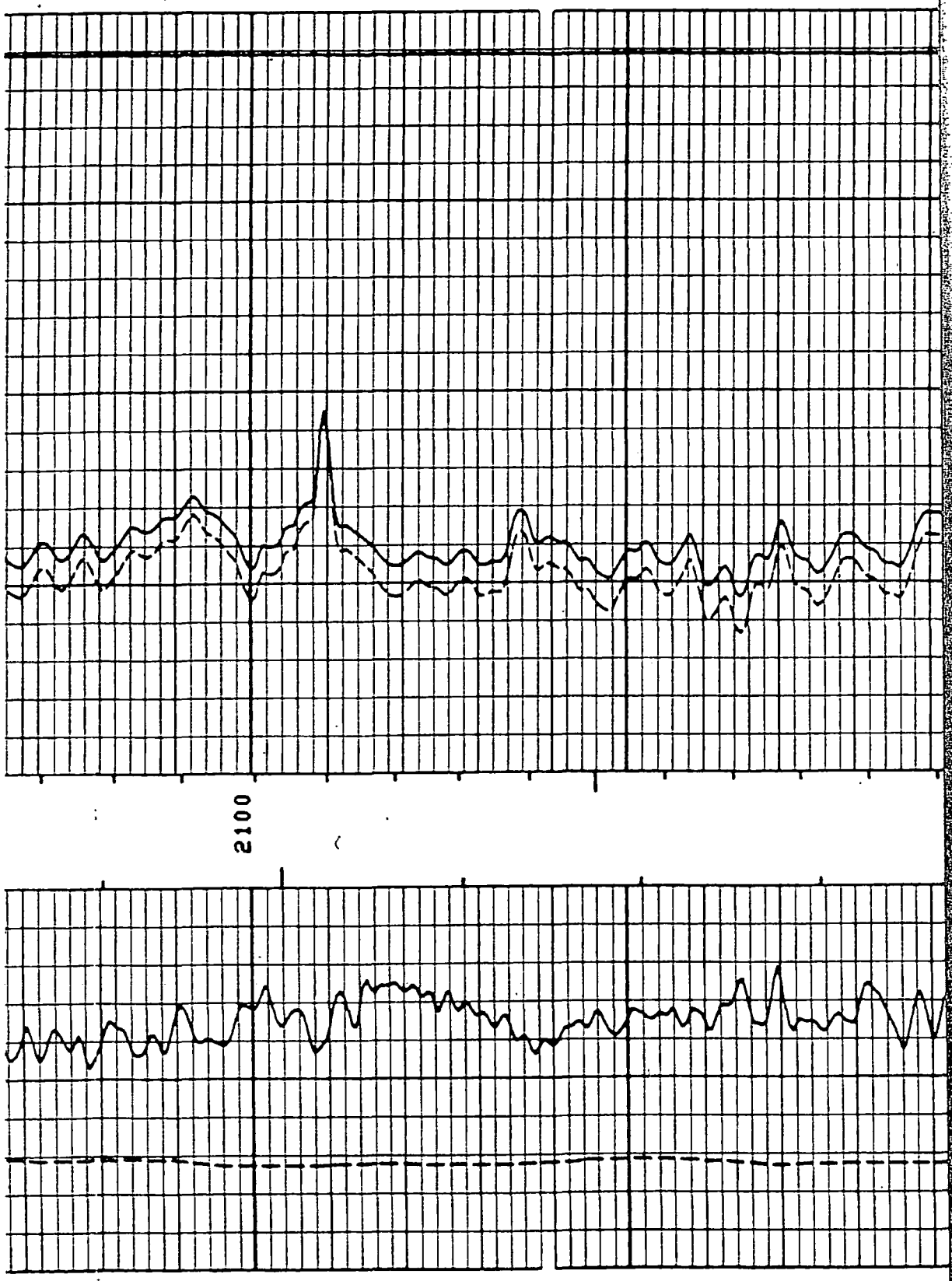

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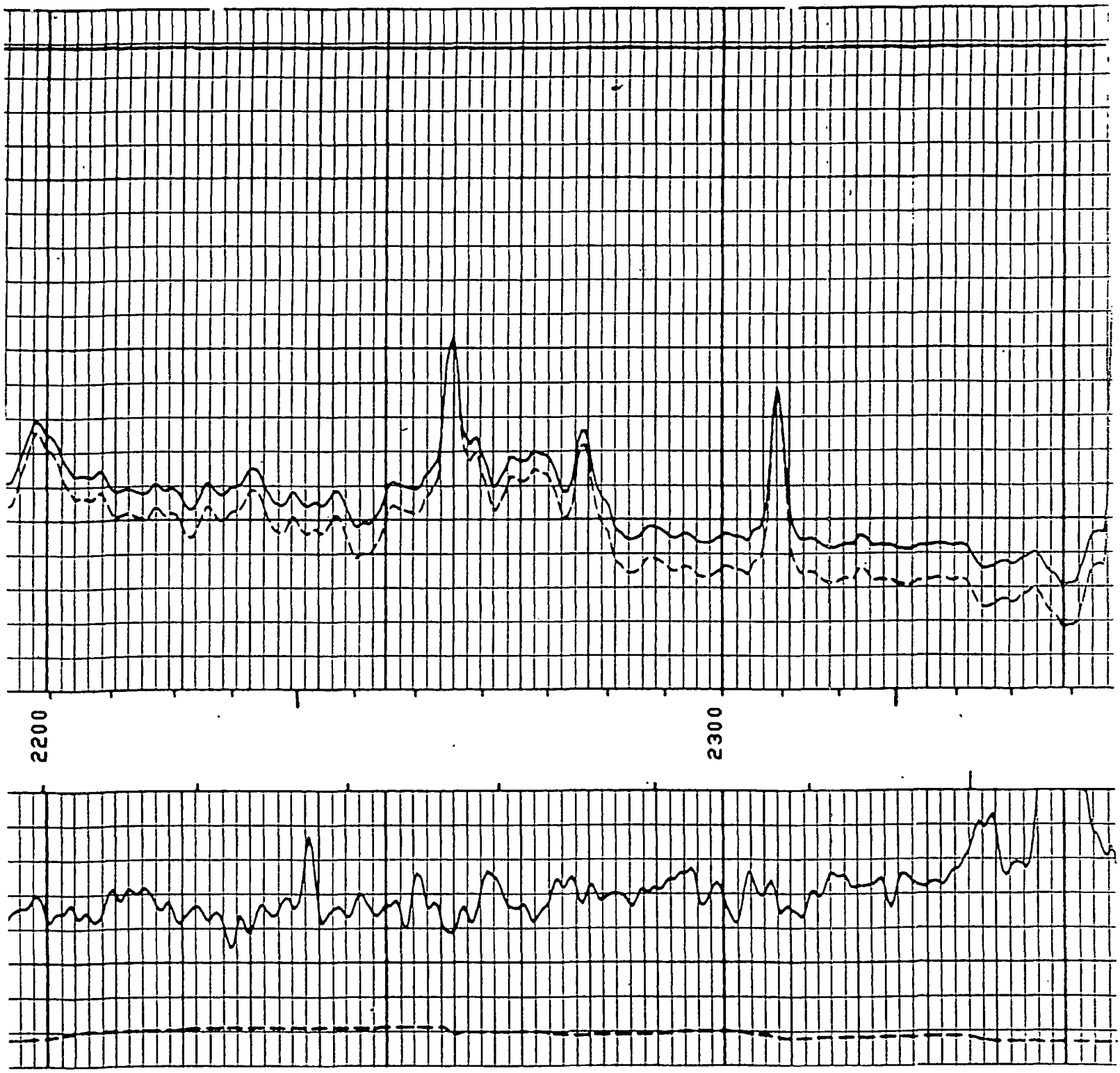

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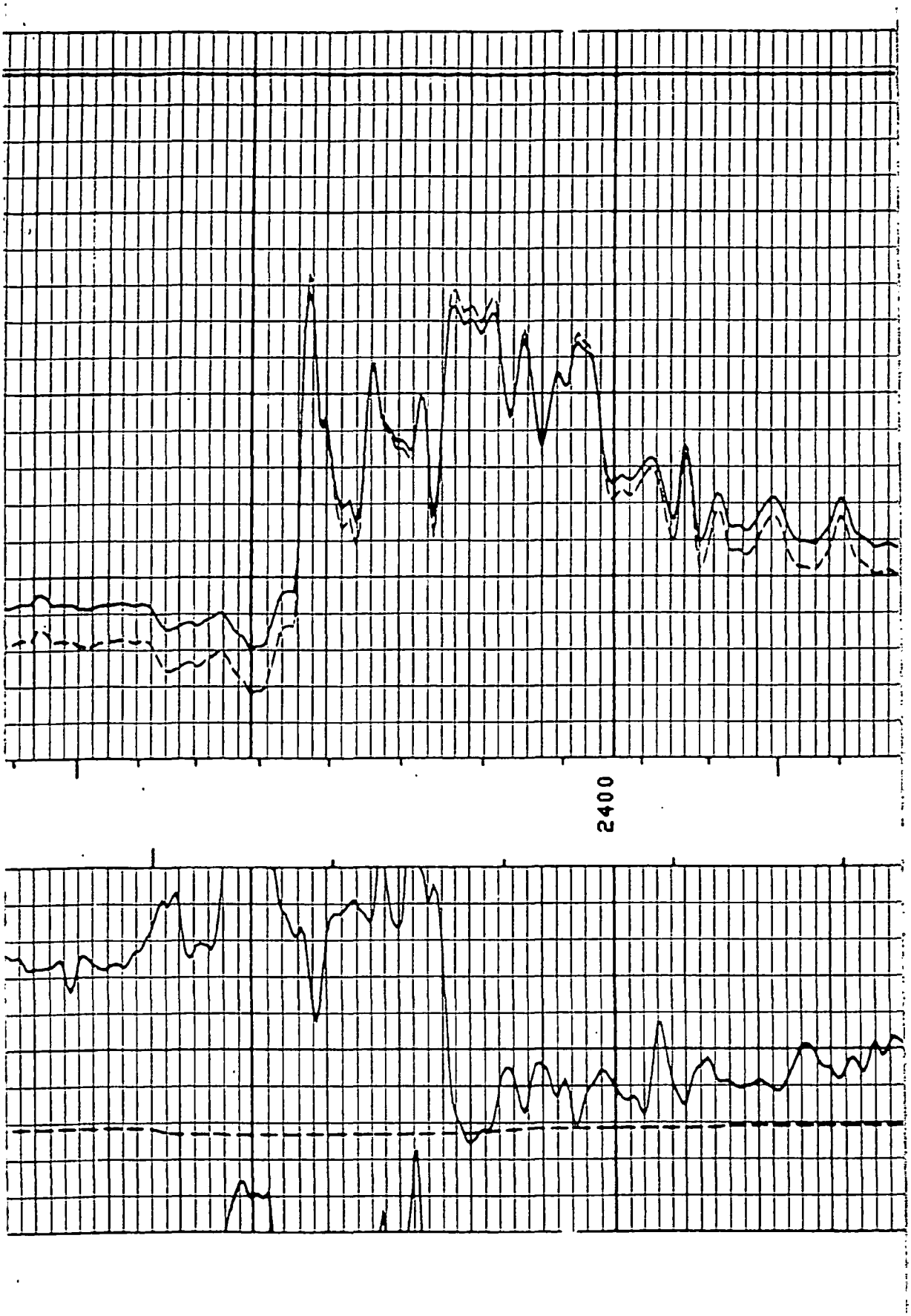

MAR02-0849

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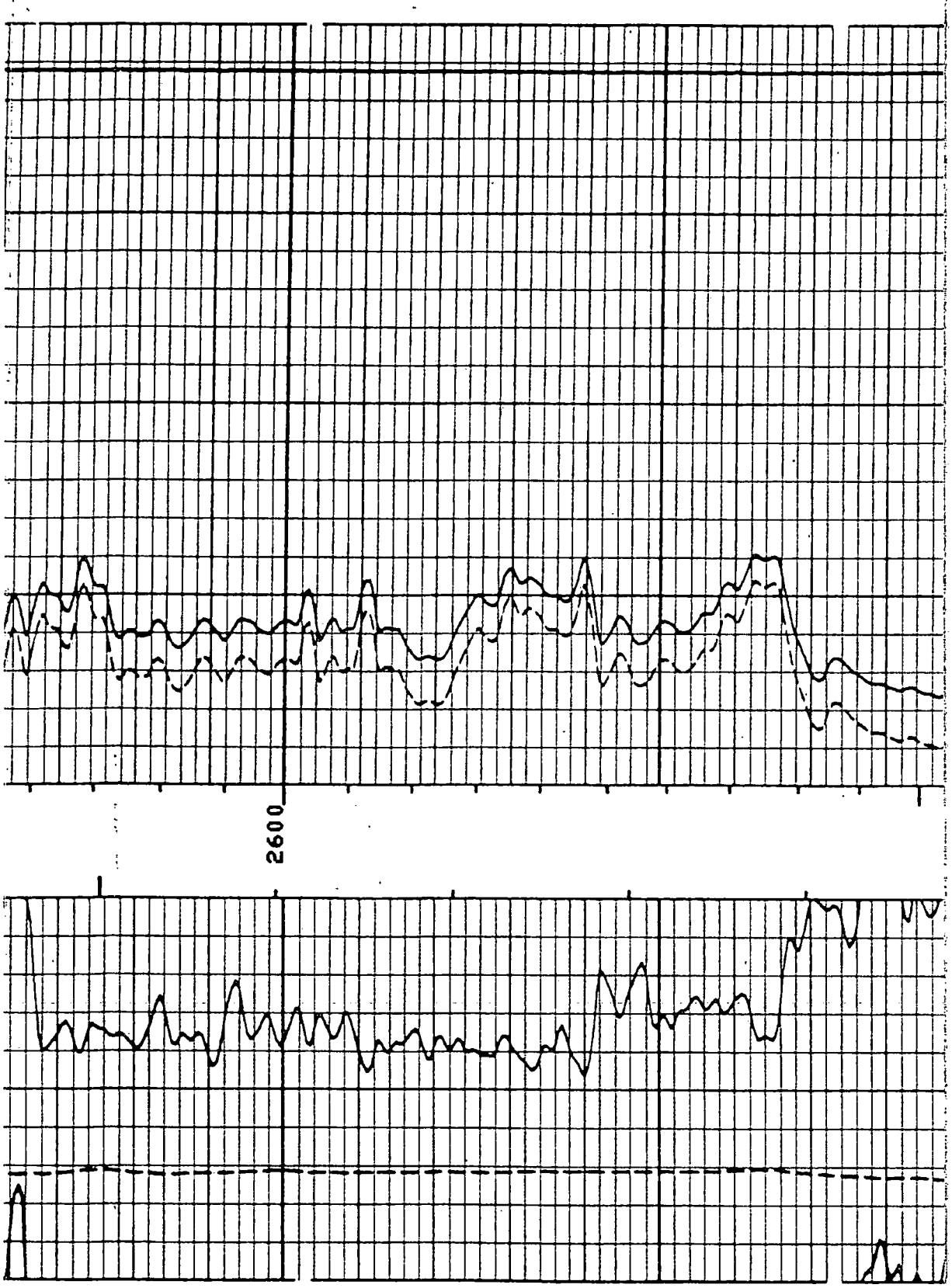
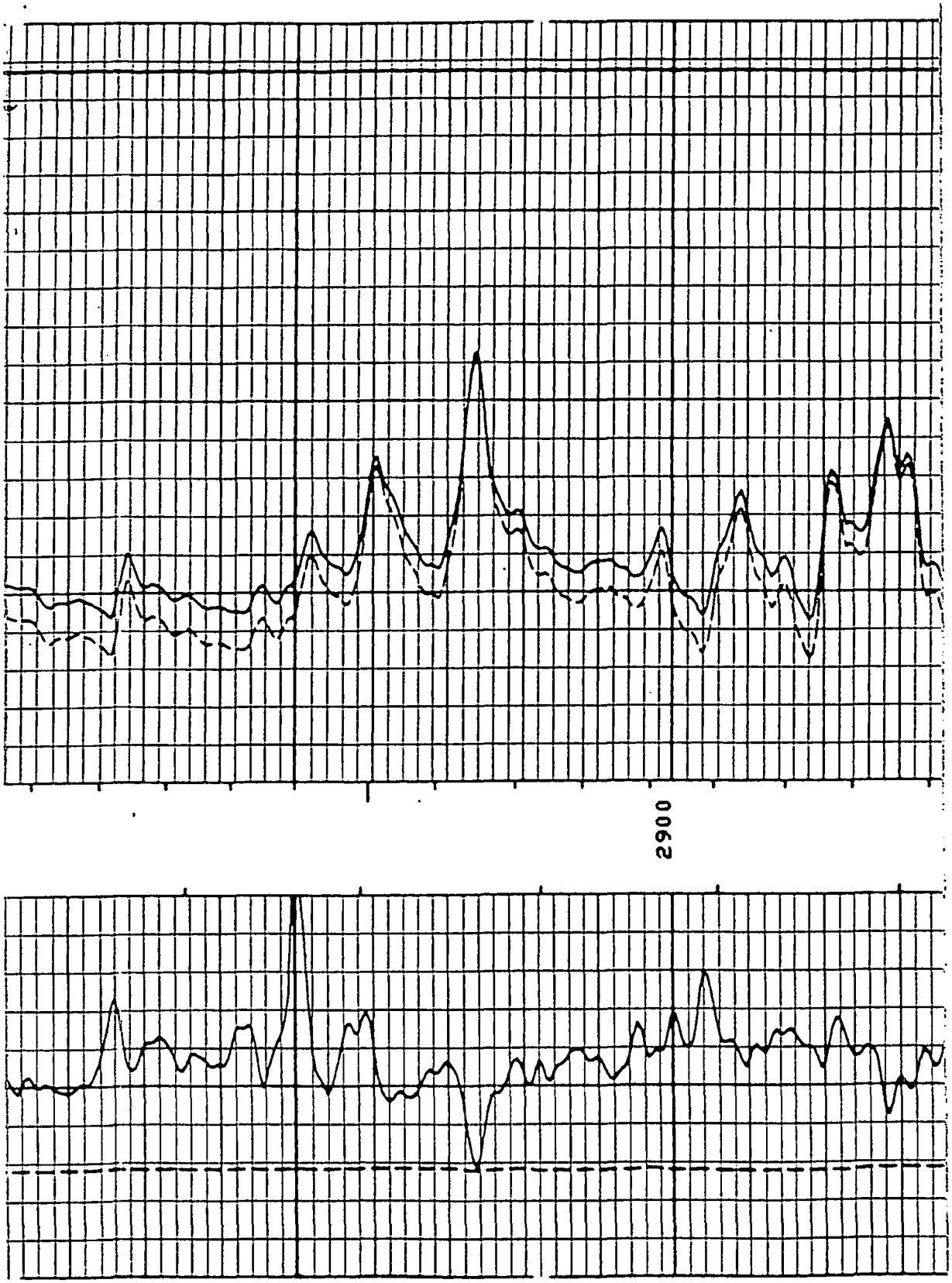


MAR02-0851

MAR02-0852



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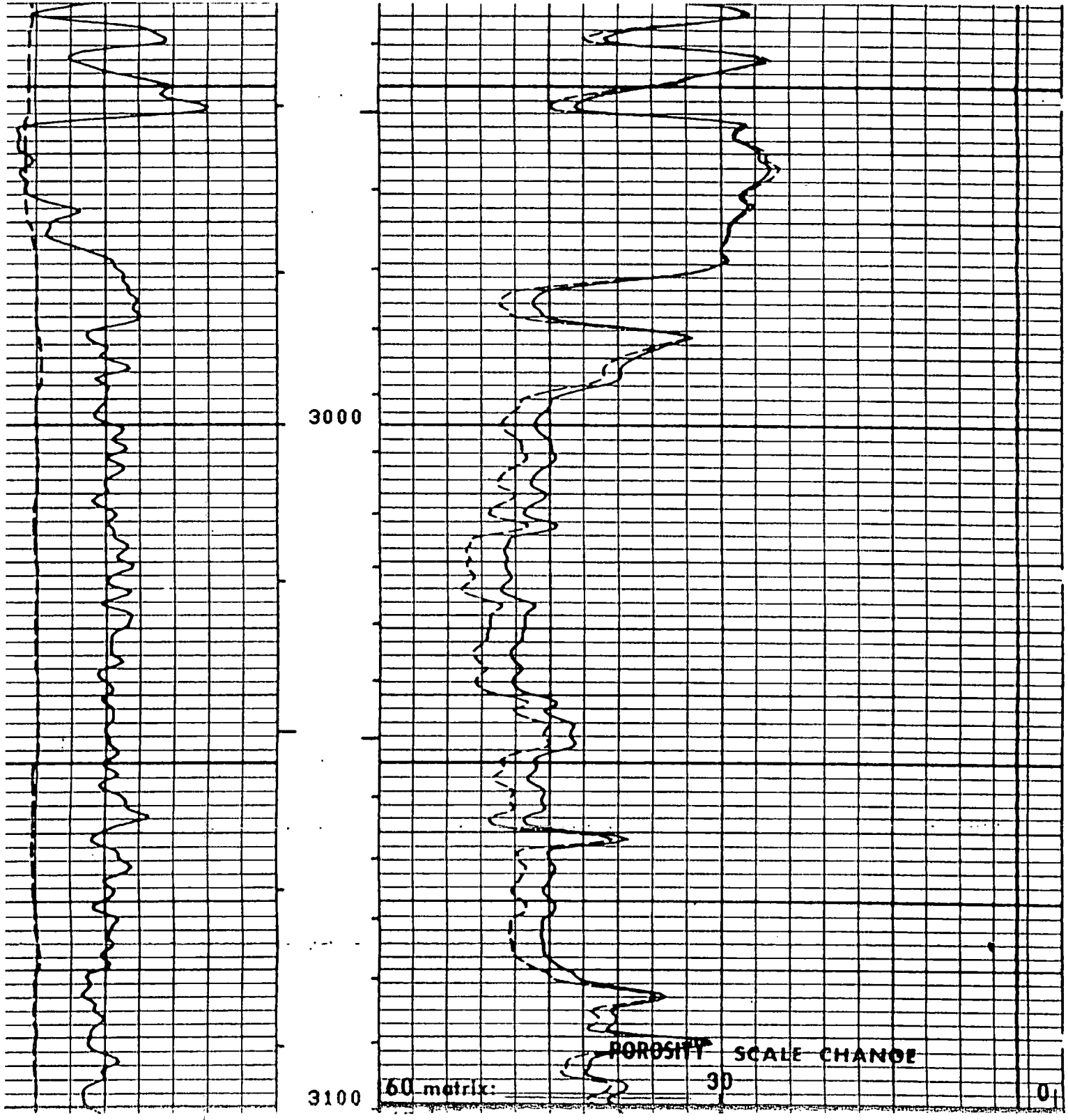

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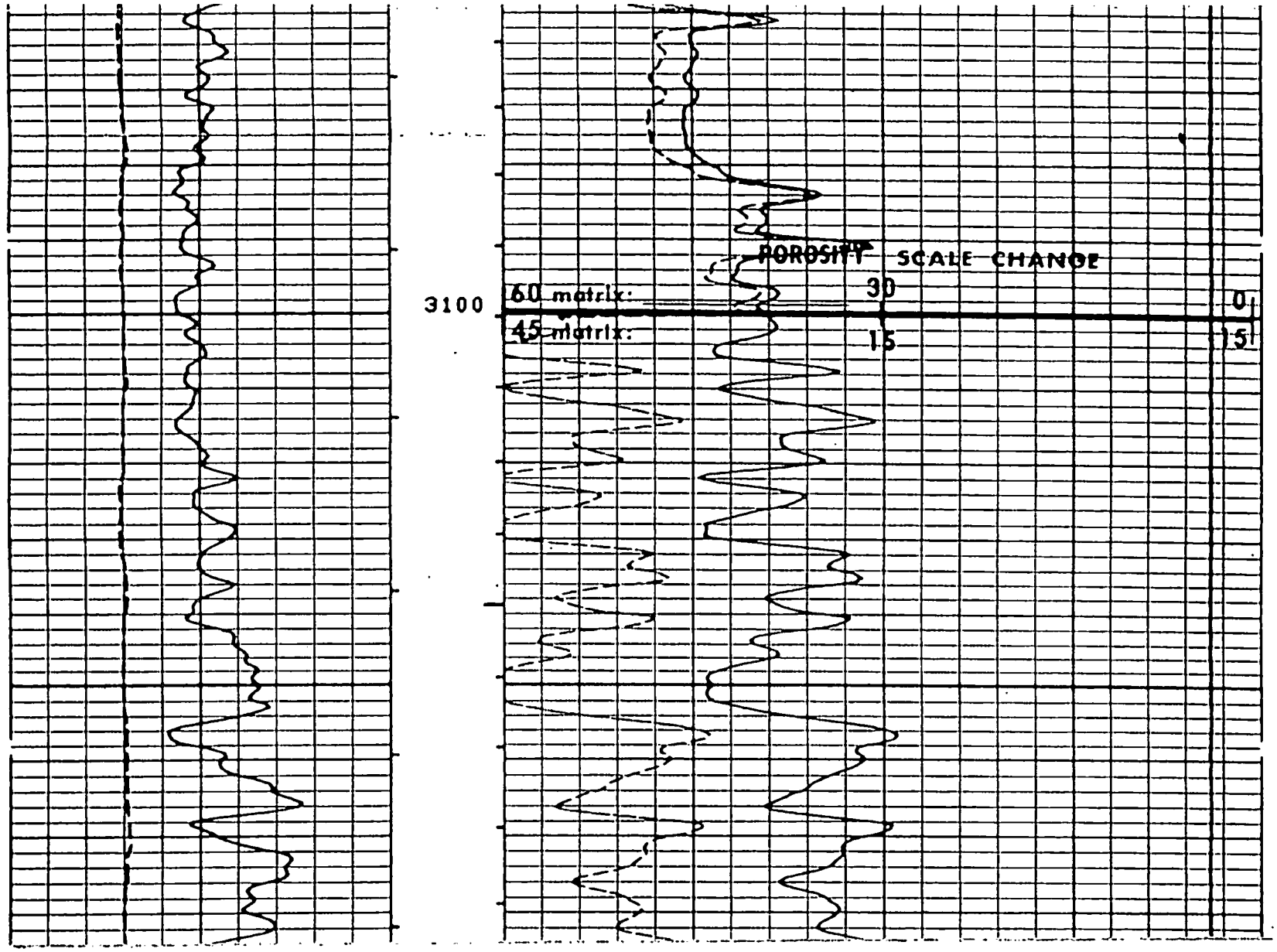

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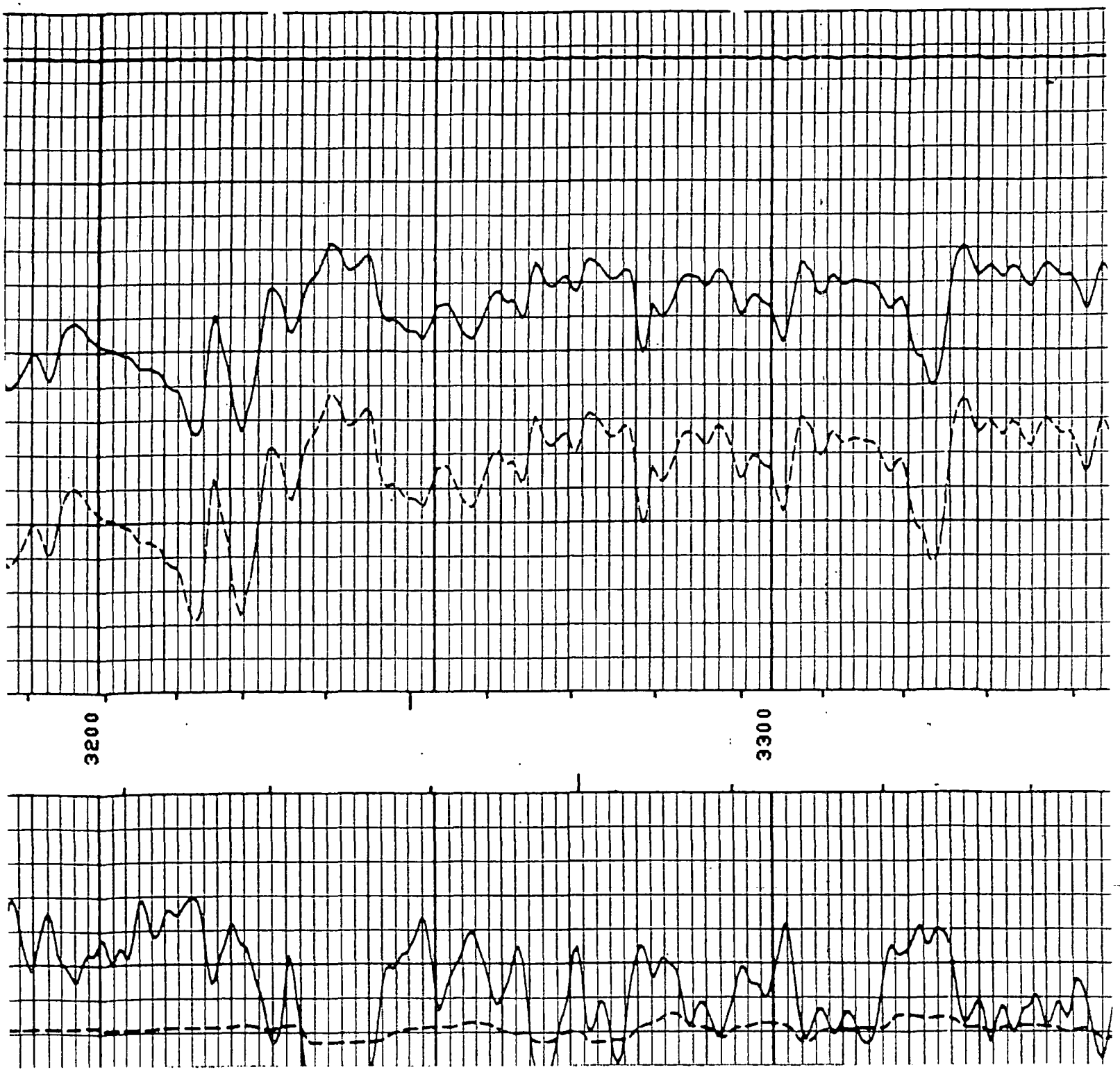

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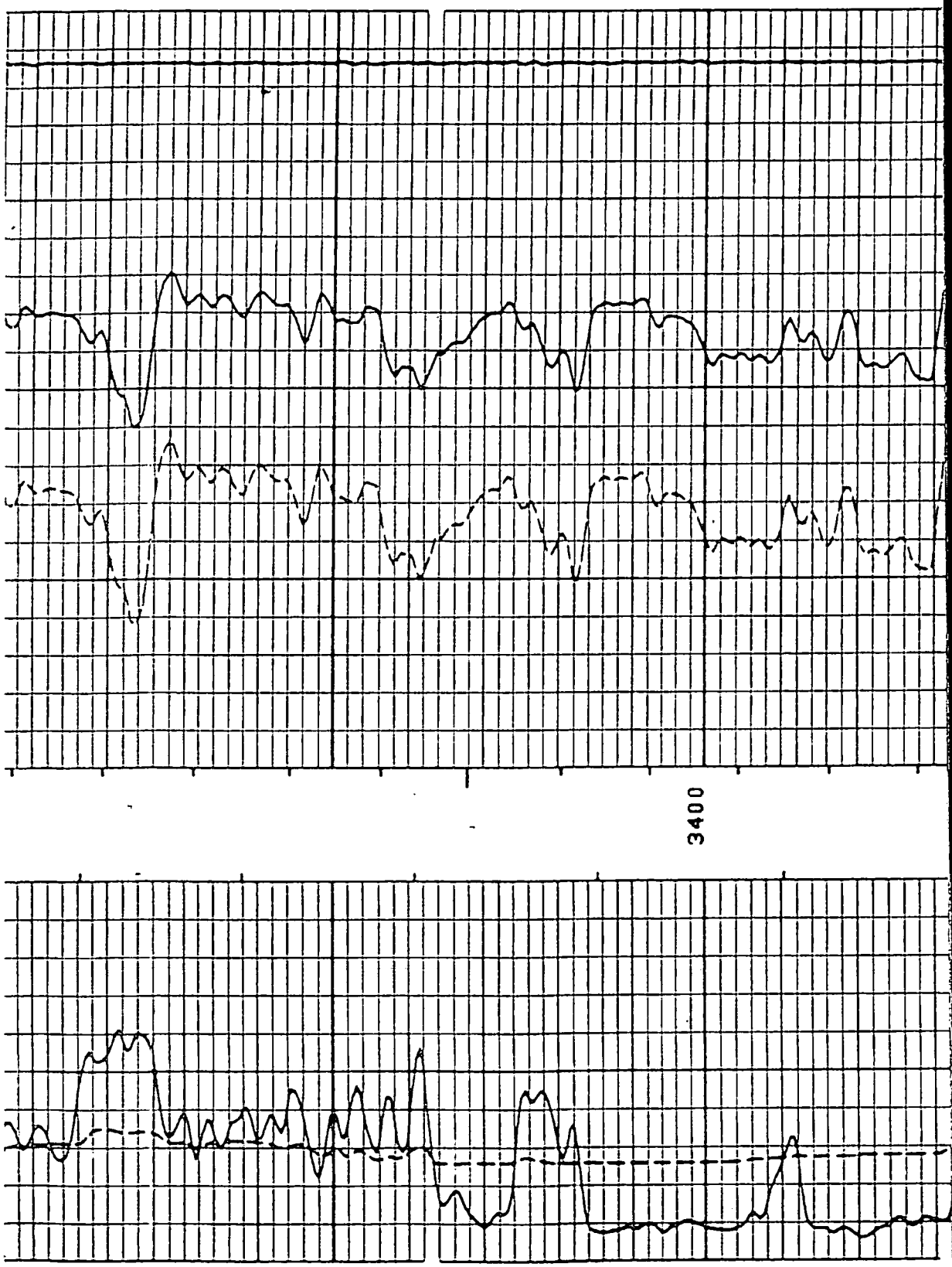

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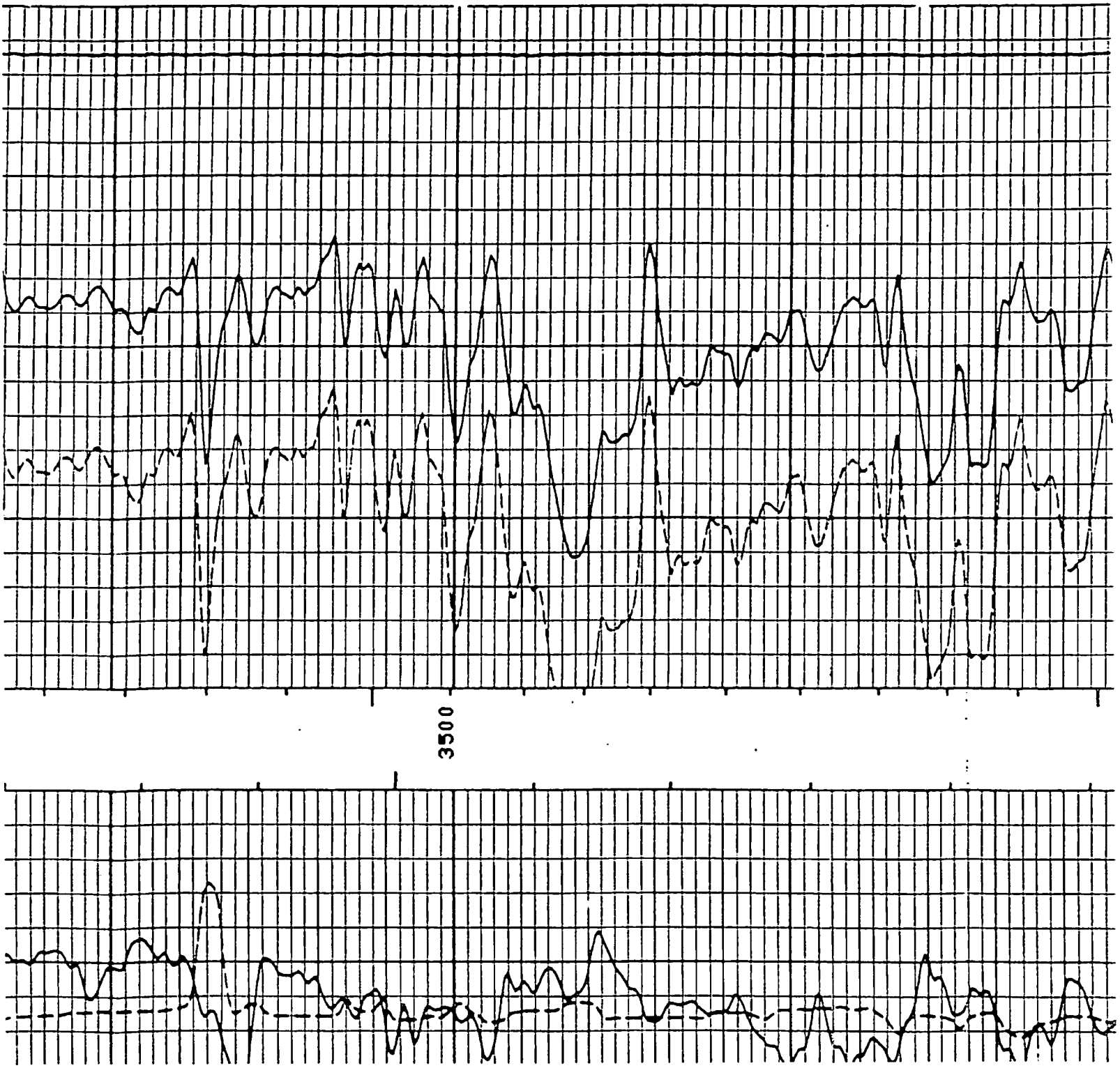

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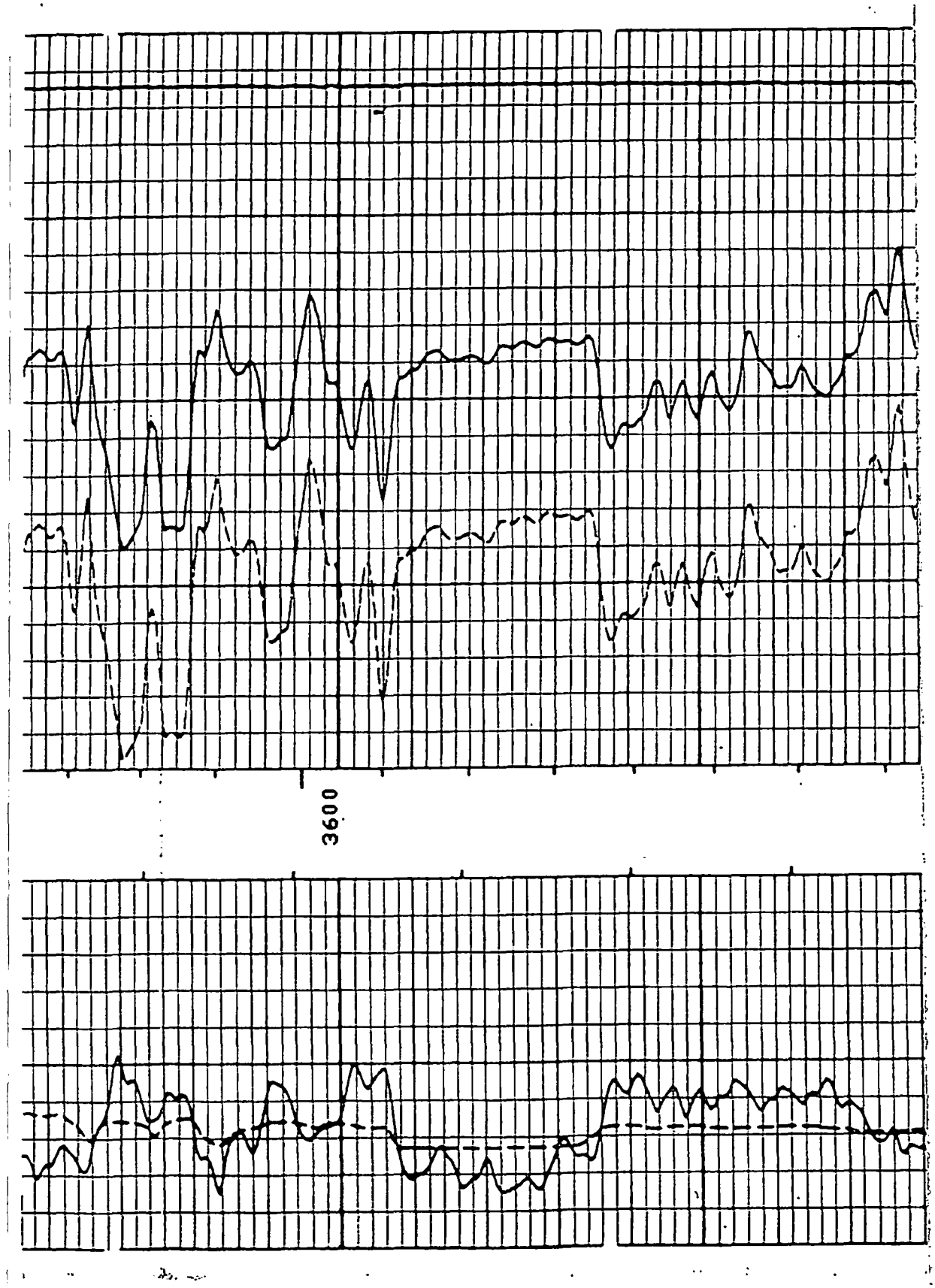

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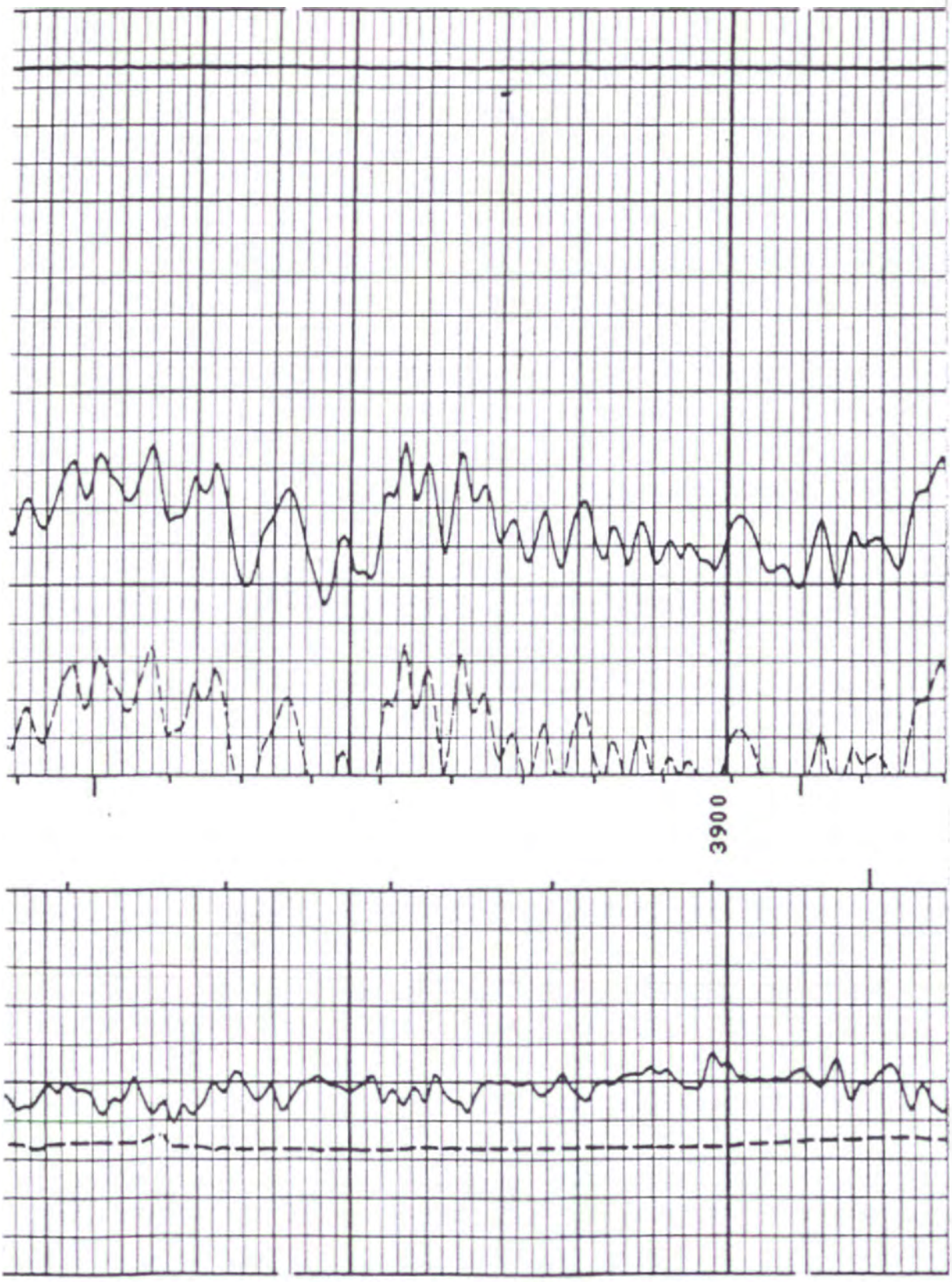

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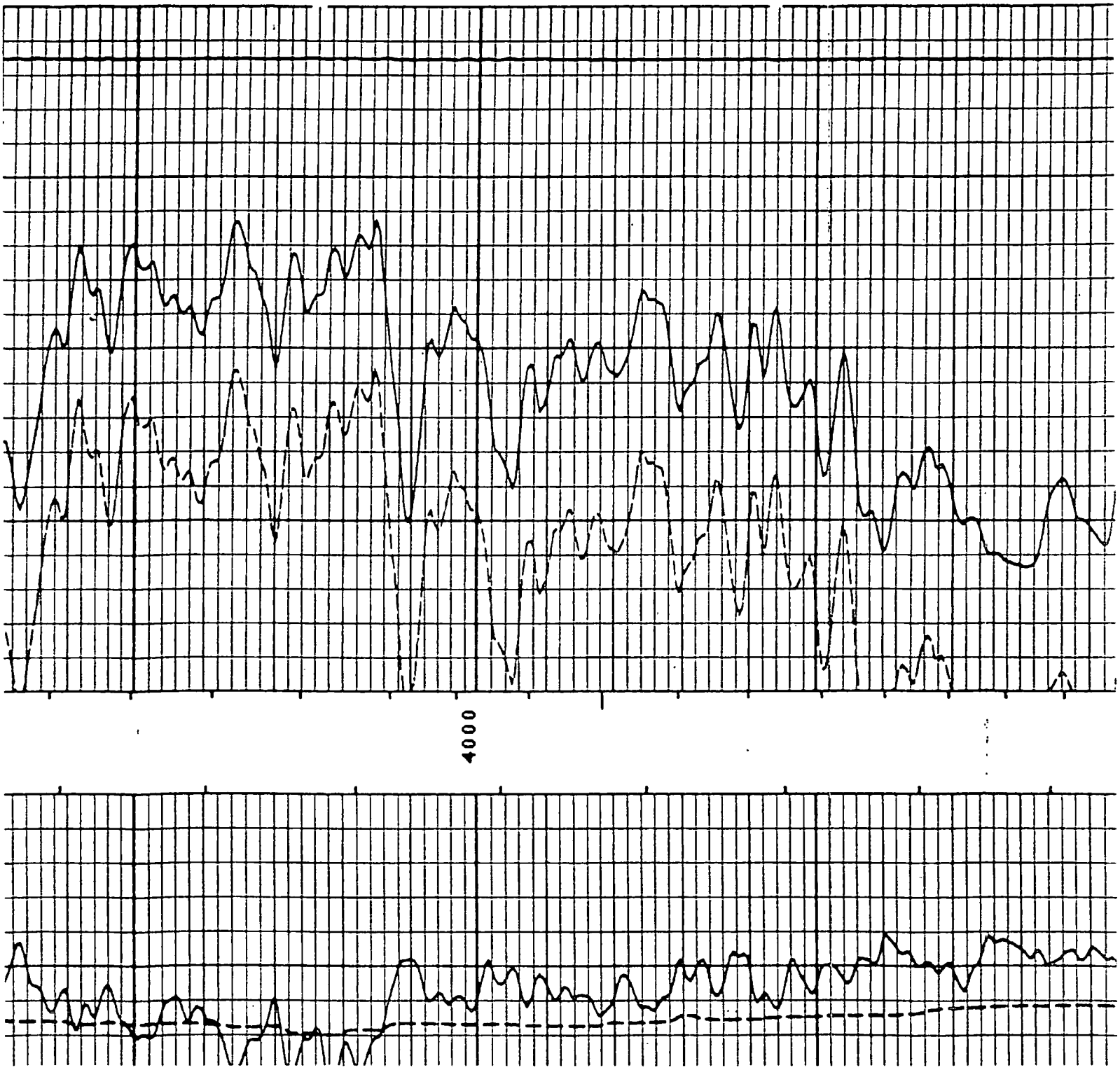

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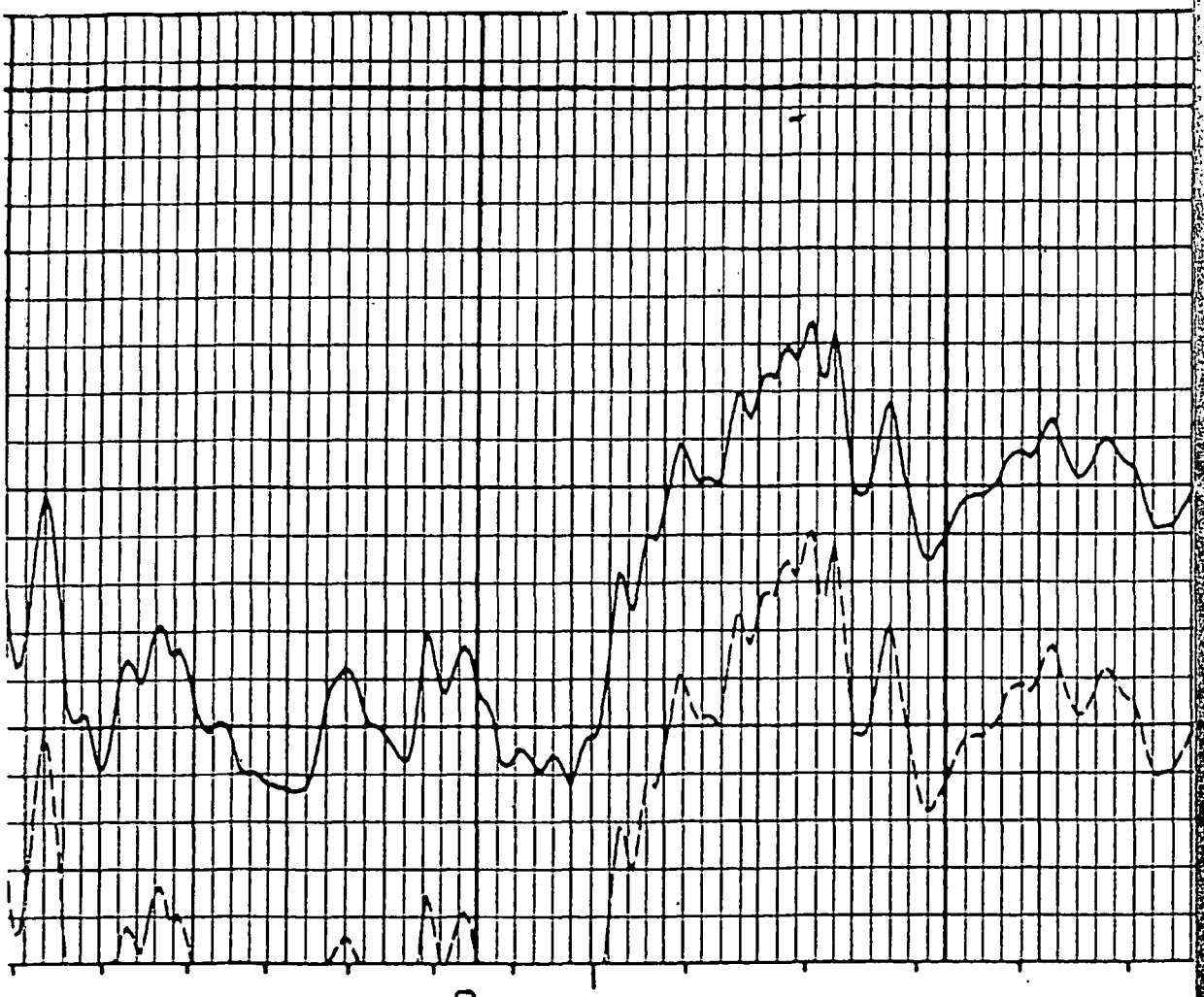

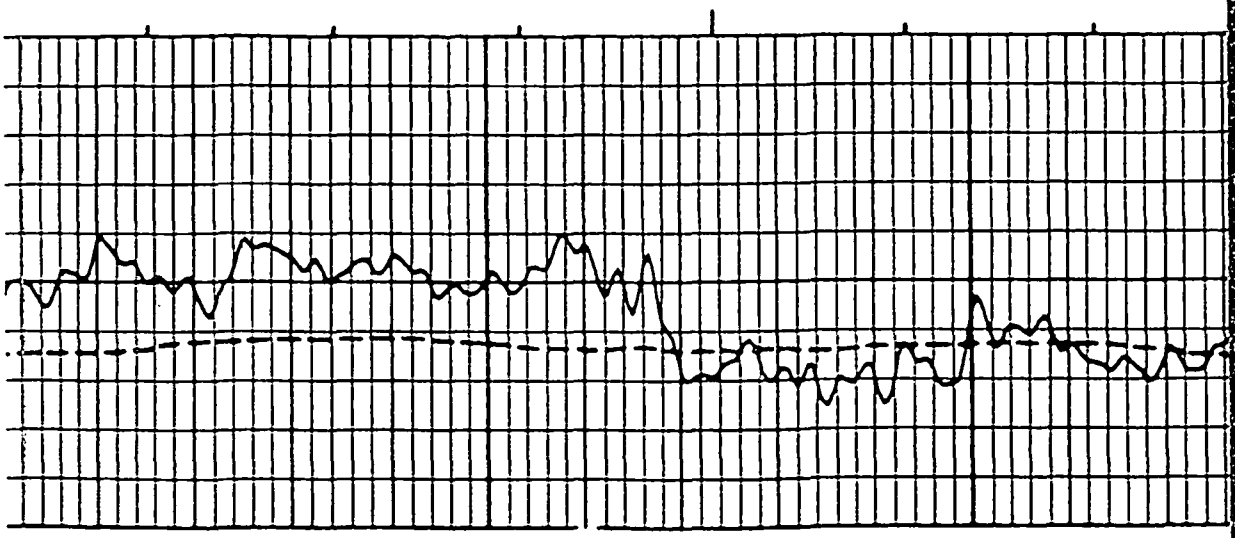

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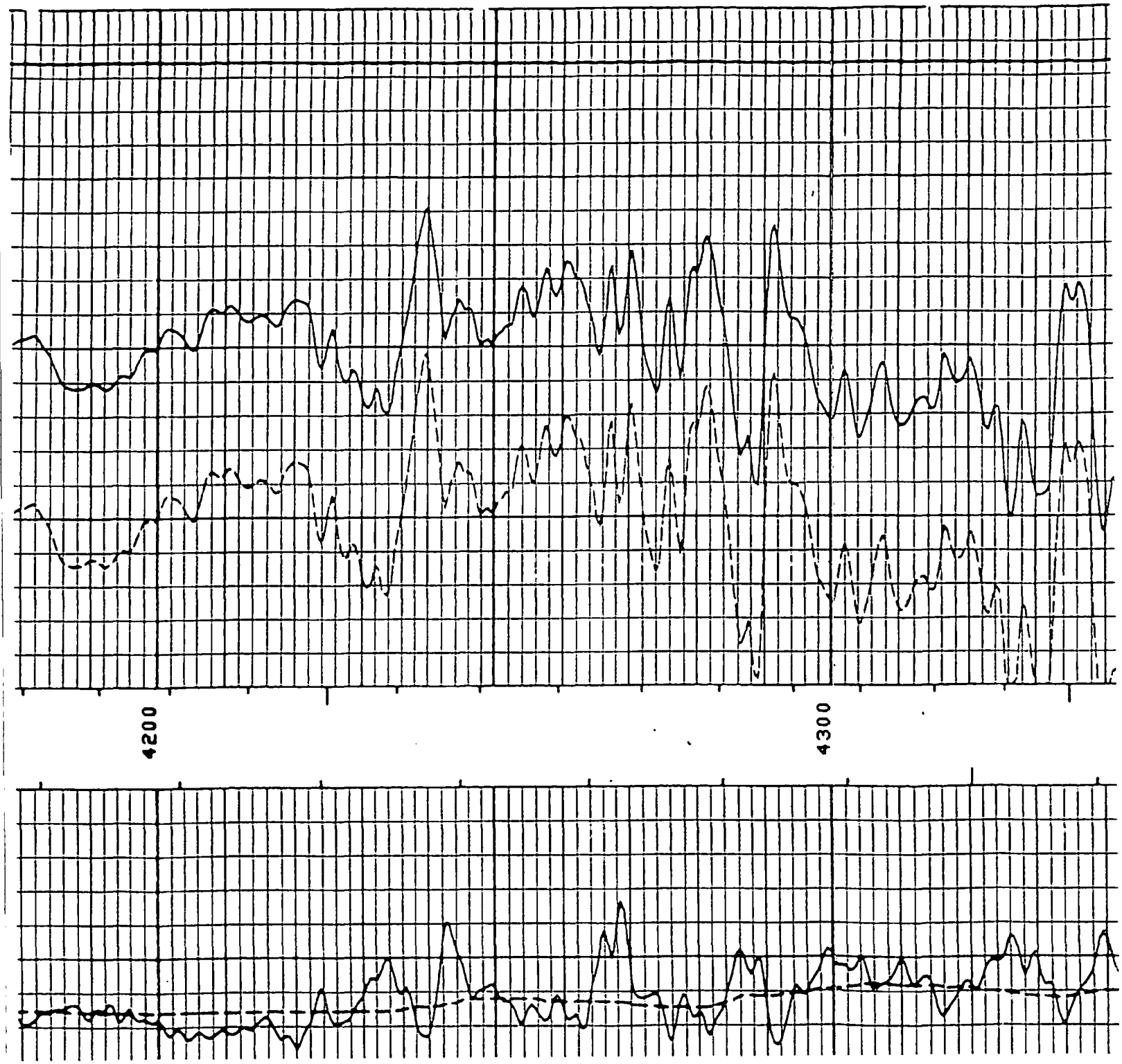

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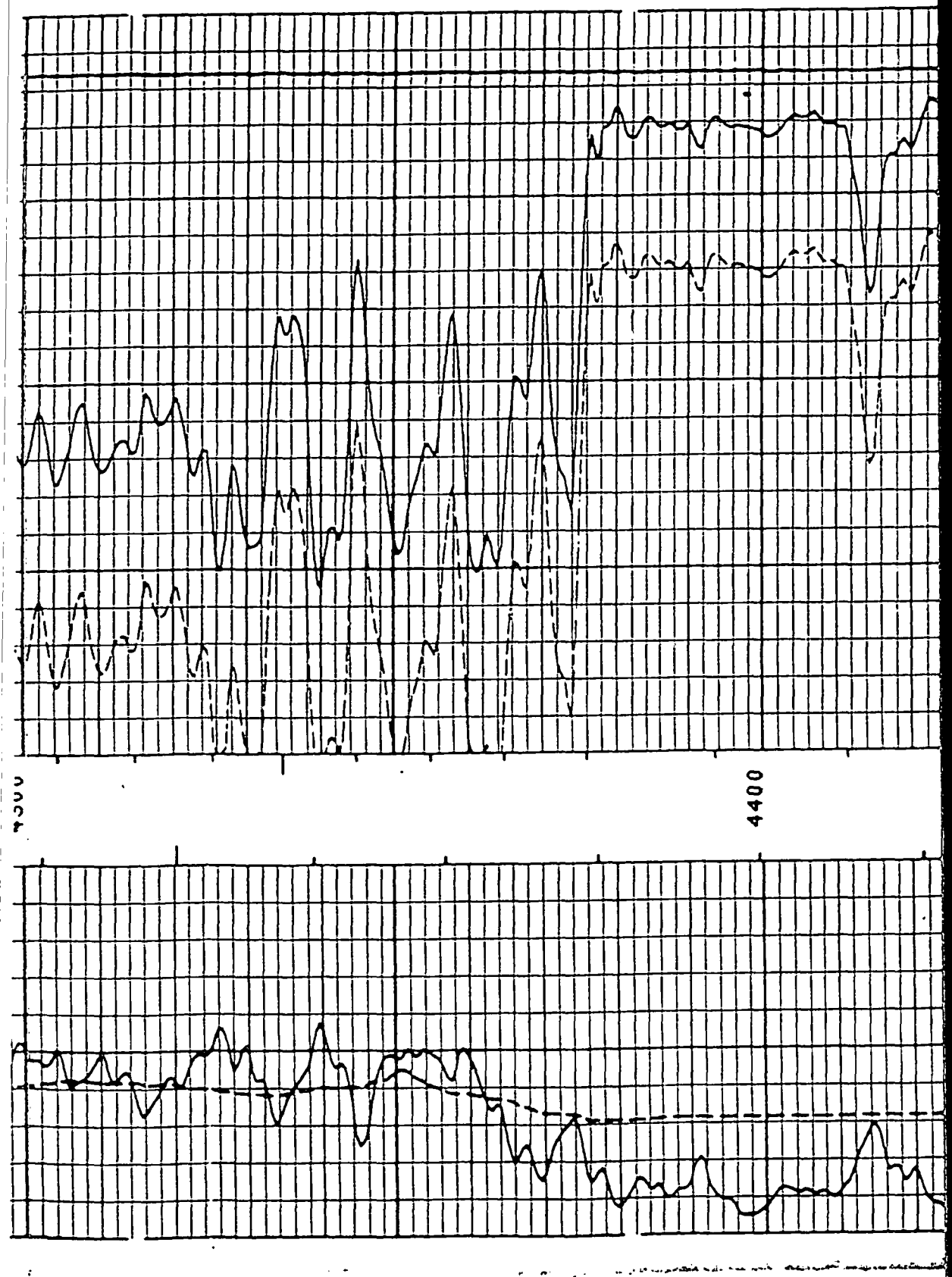

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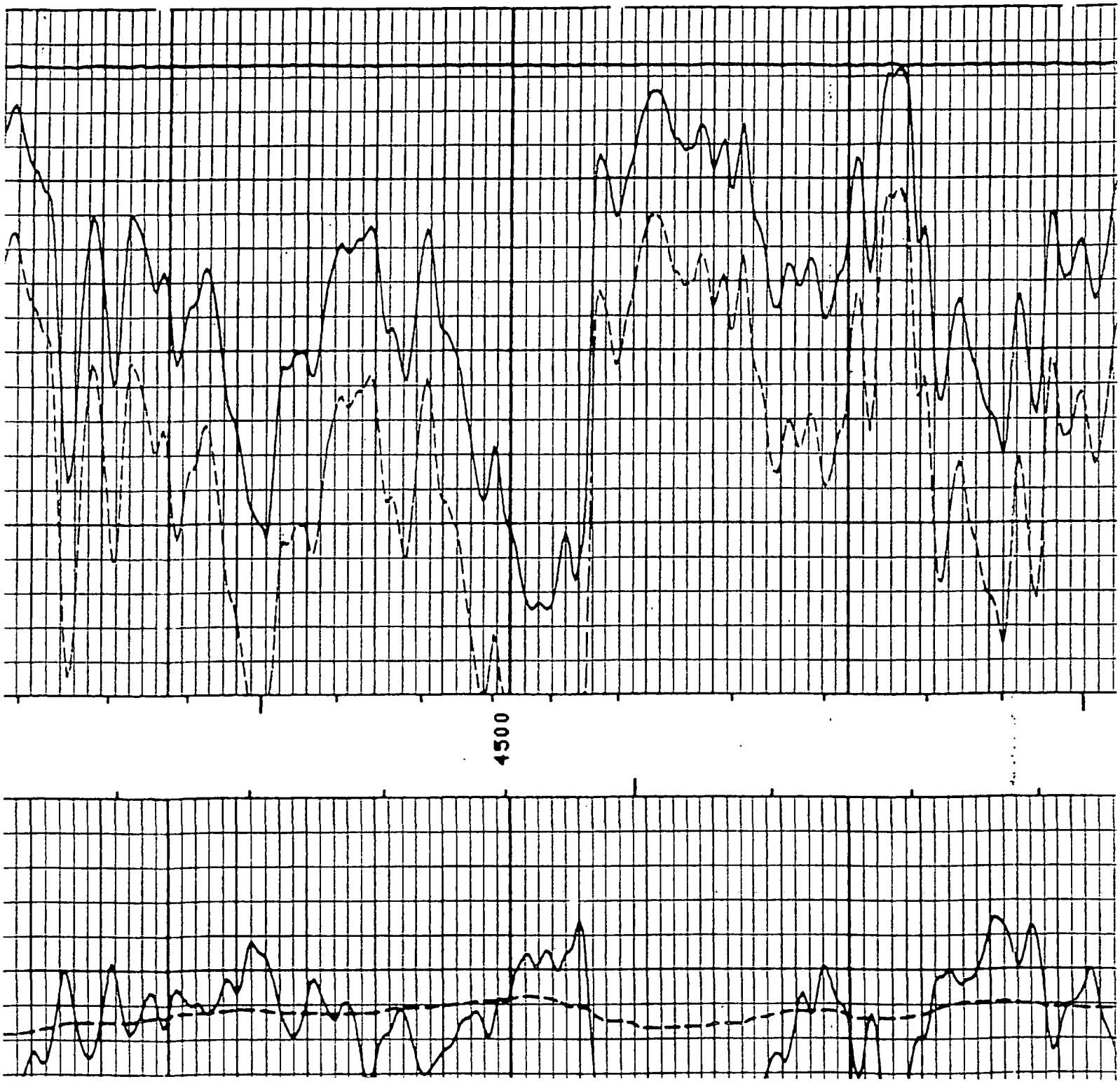

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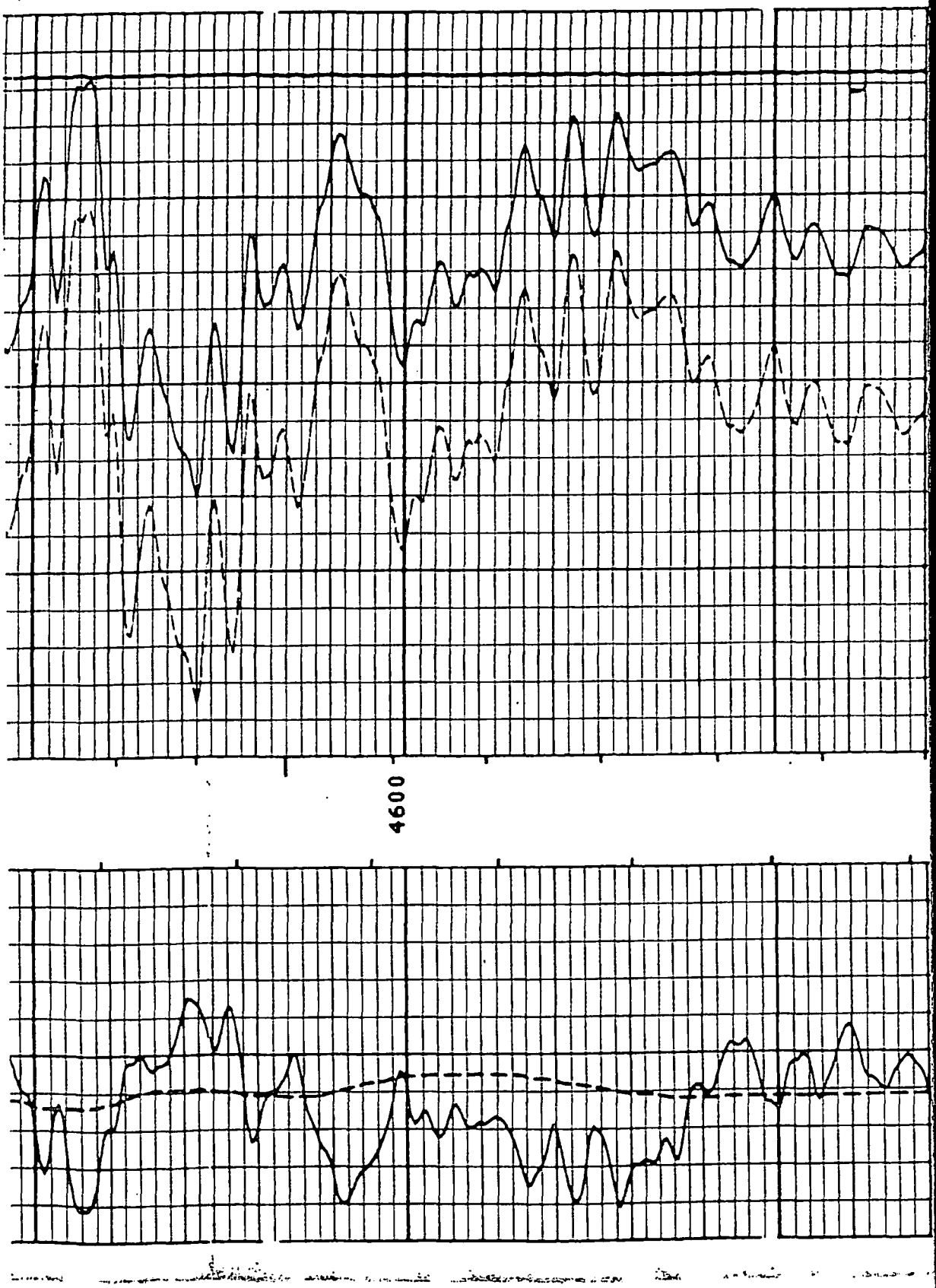
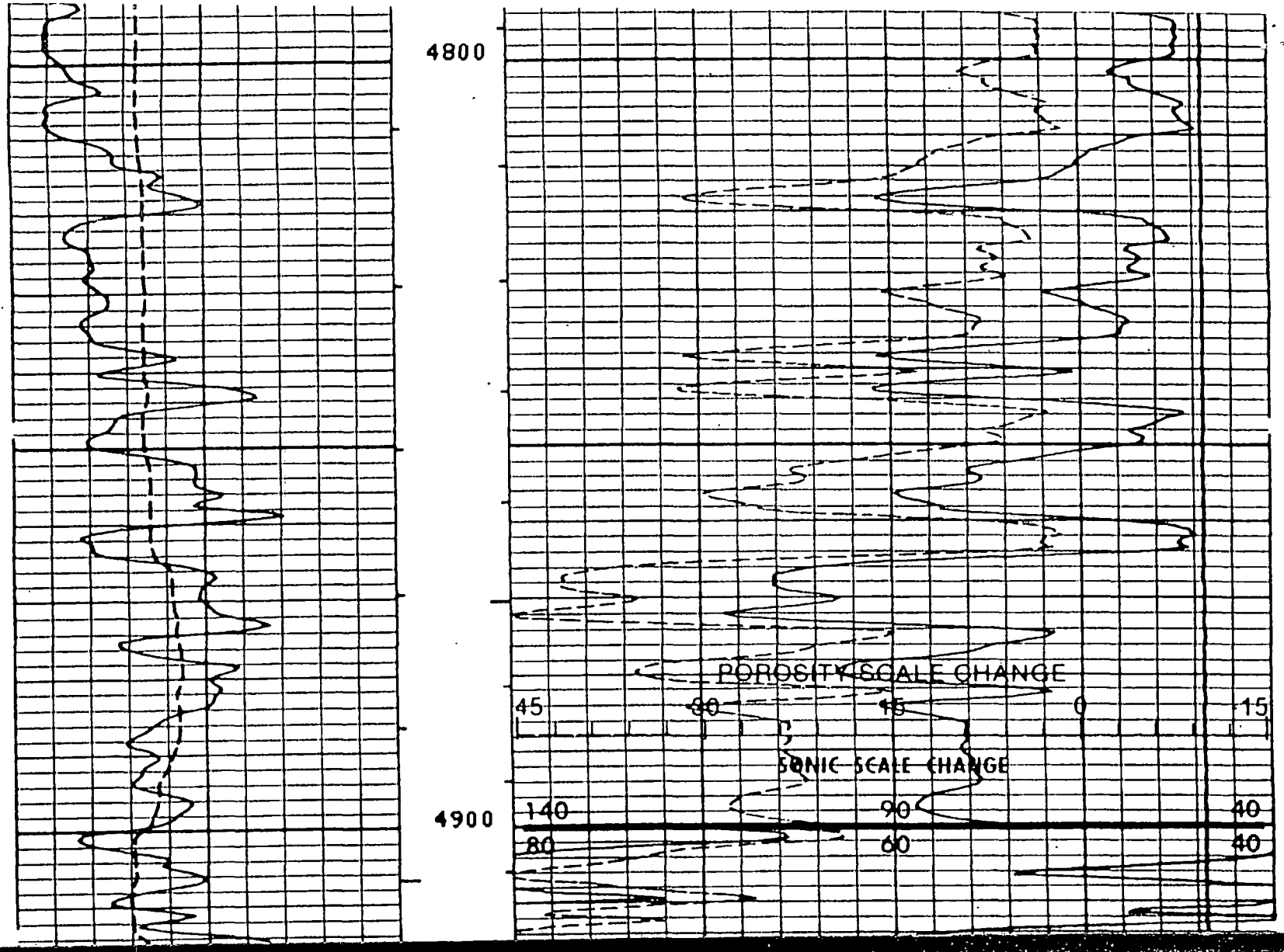
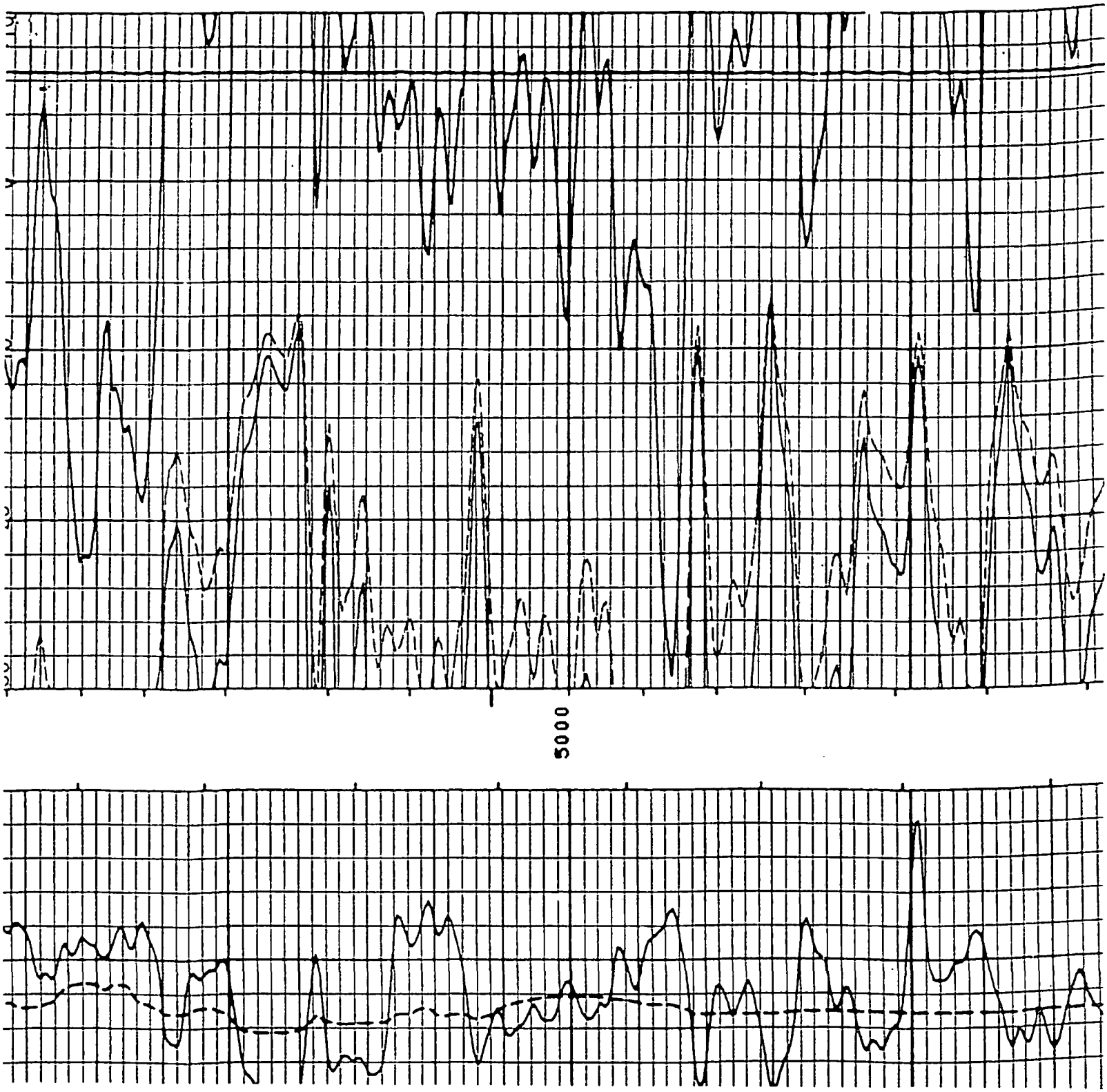


MAR02-0867

MAR02-0868


4800
4900
POROSITY SCALE CHANGE
45
30
15
0
15
SONIC SCALE CHANGE
140
90
40
80
60
40

MAR02-0869



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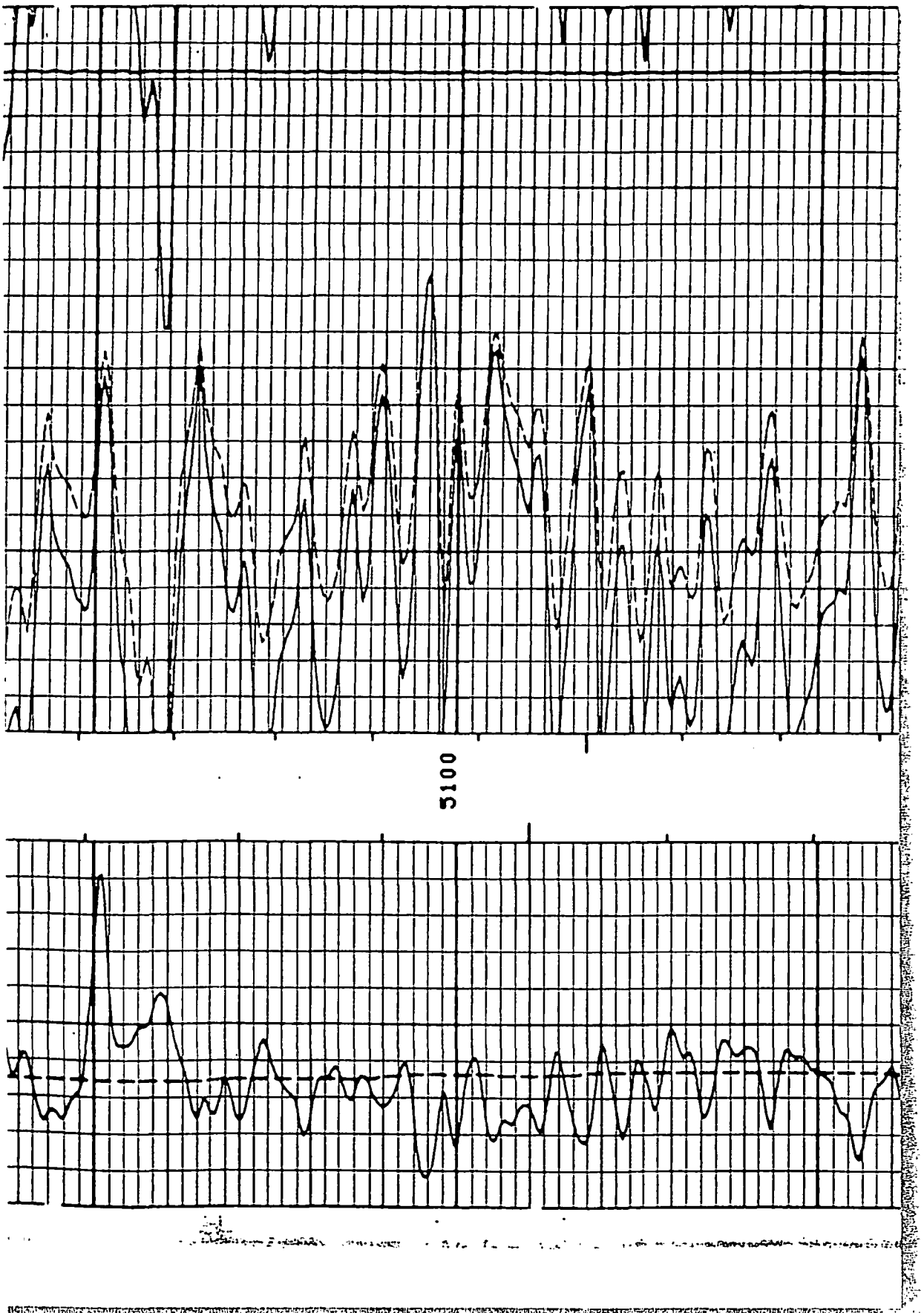

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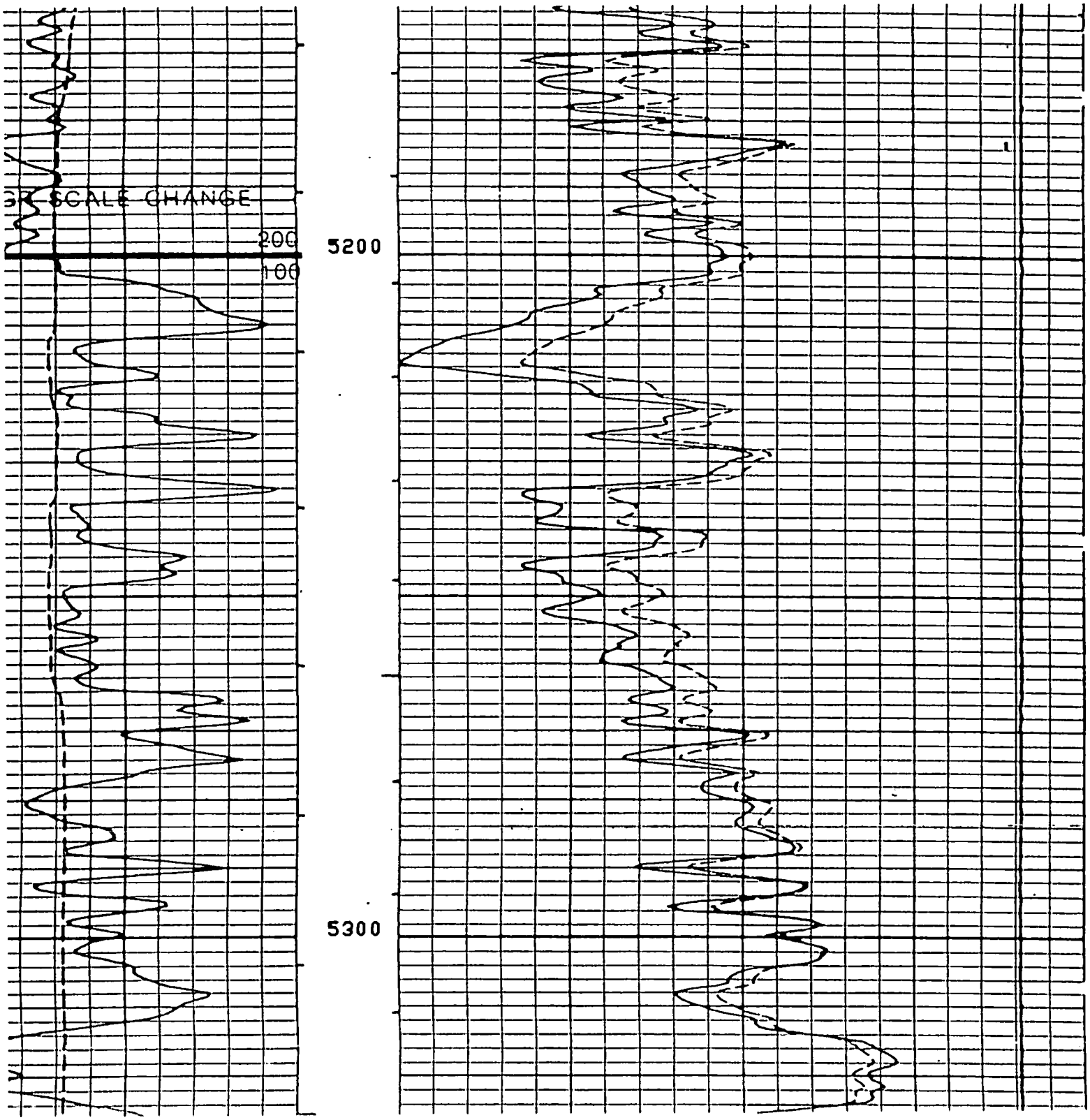

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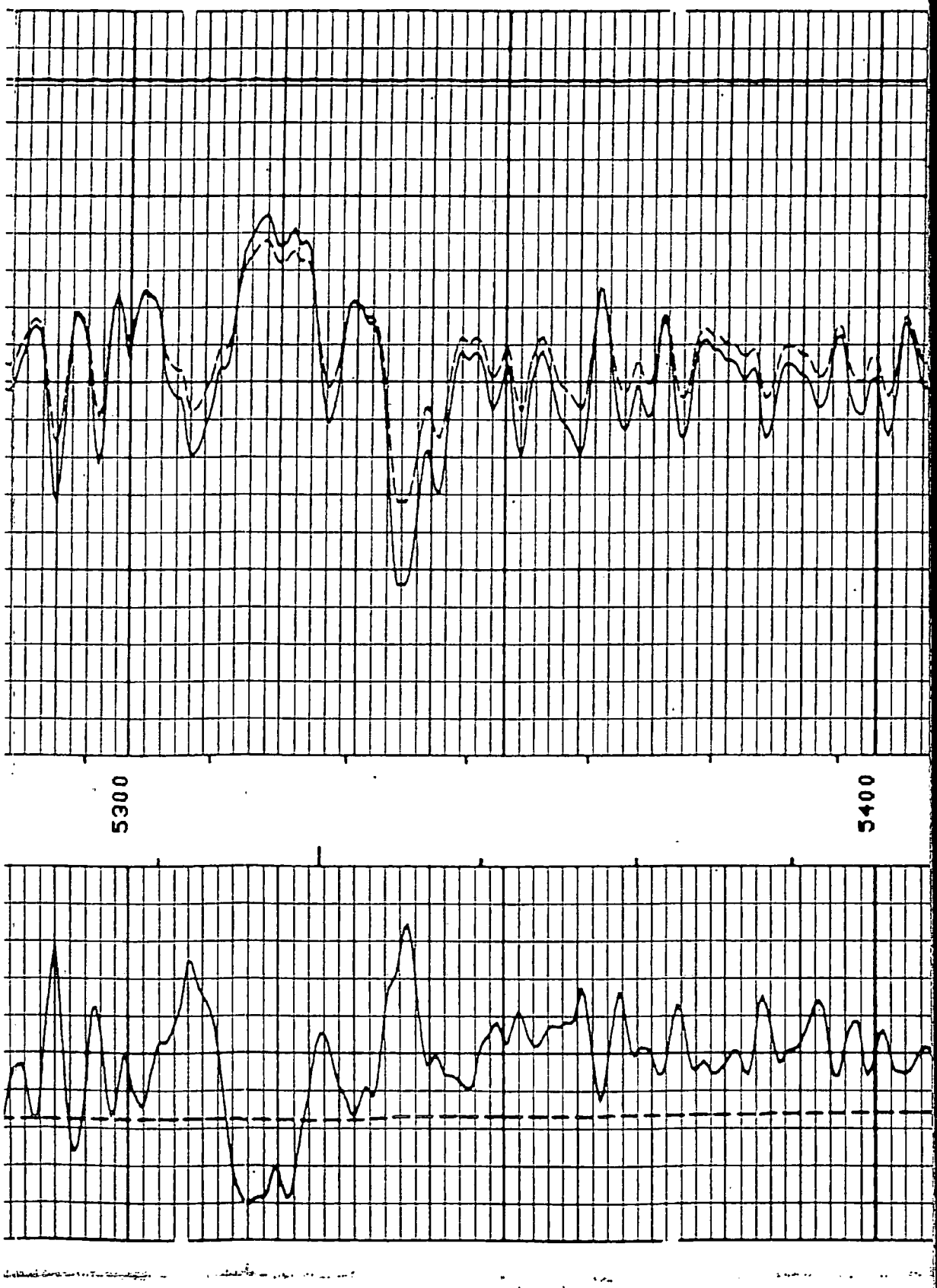
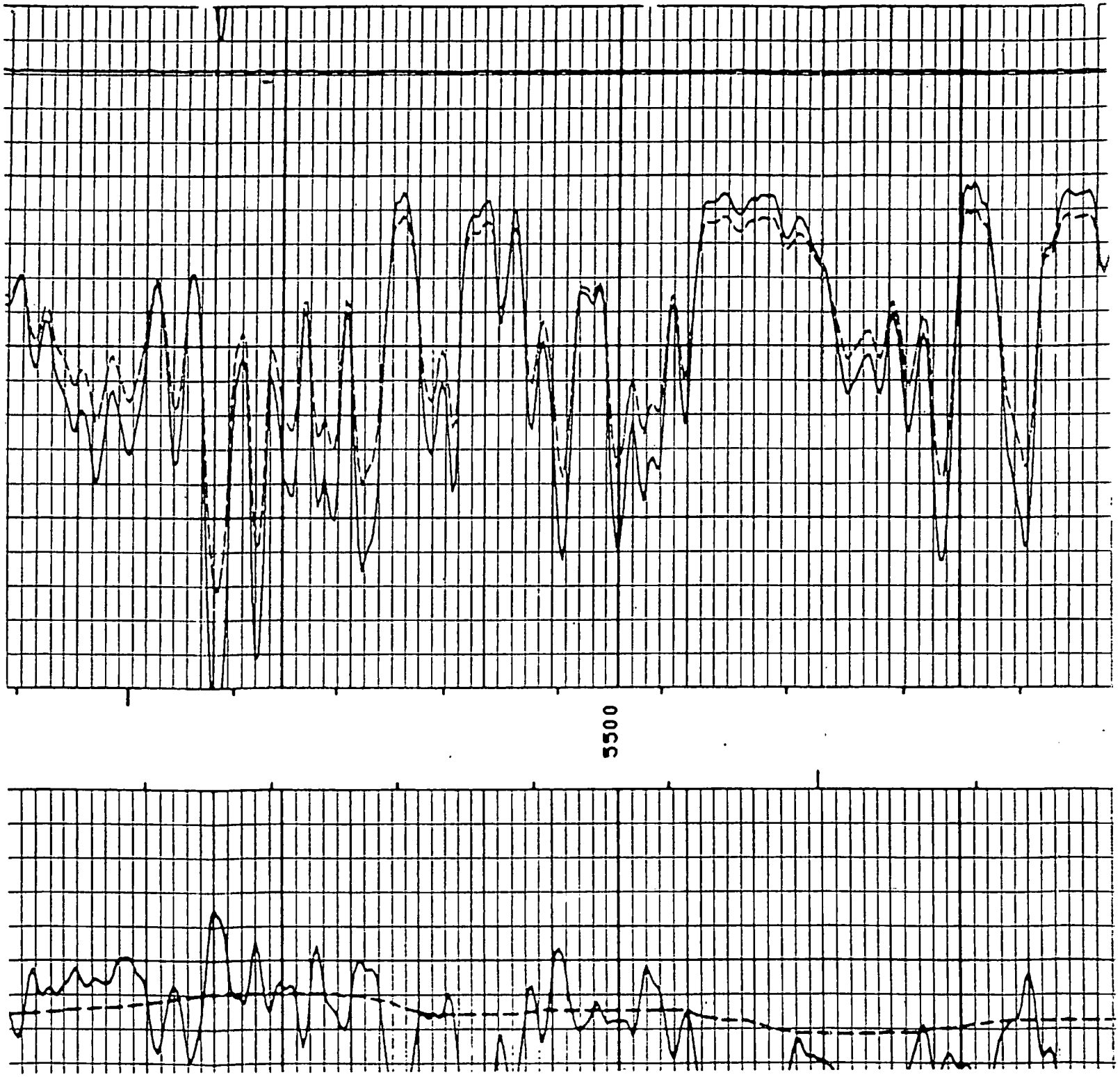
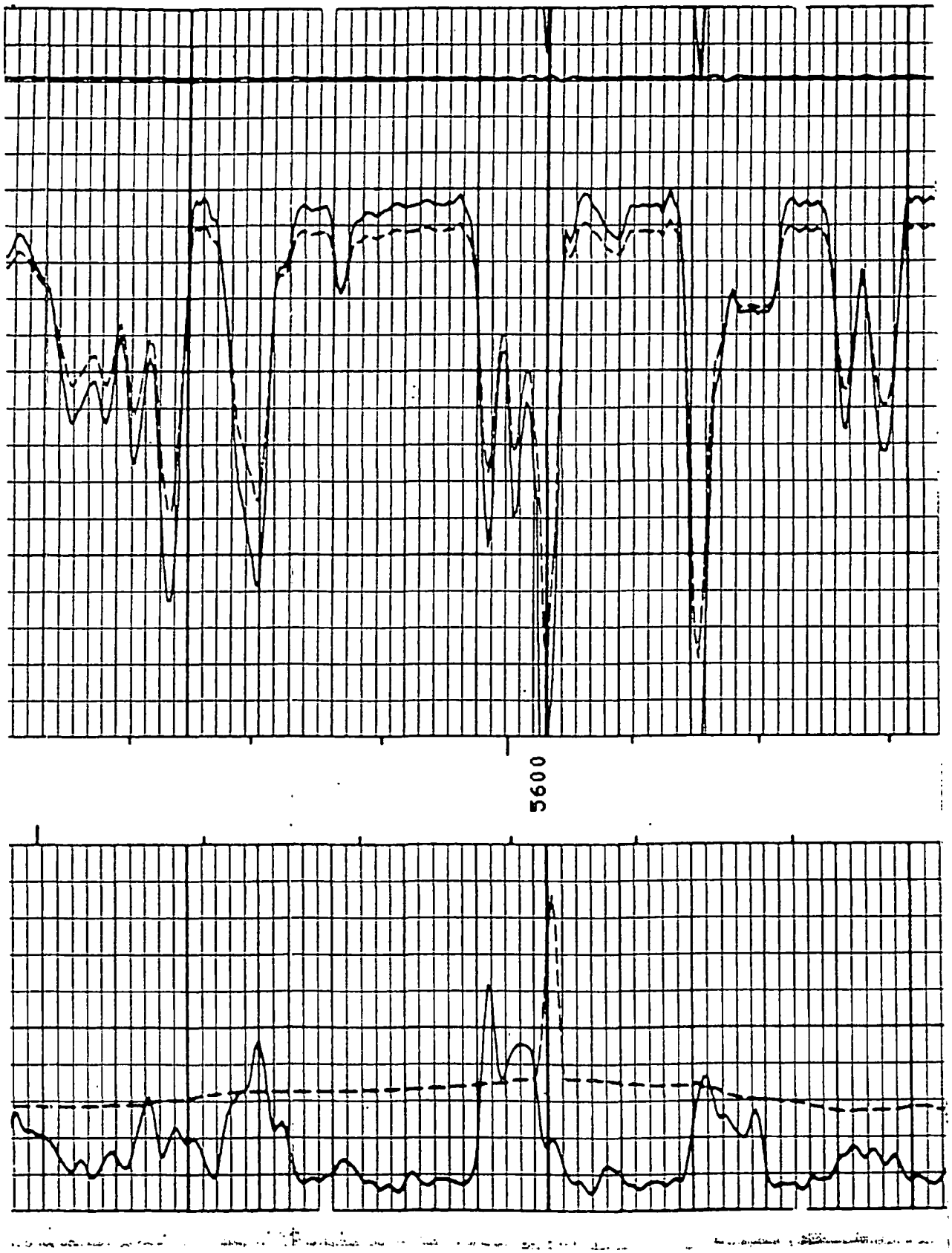


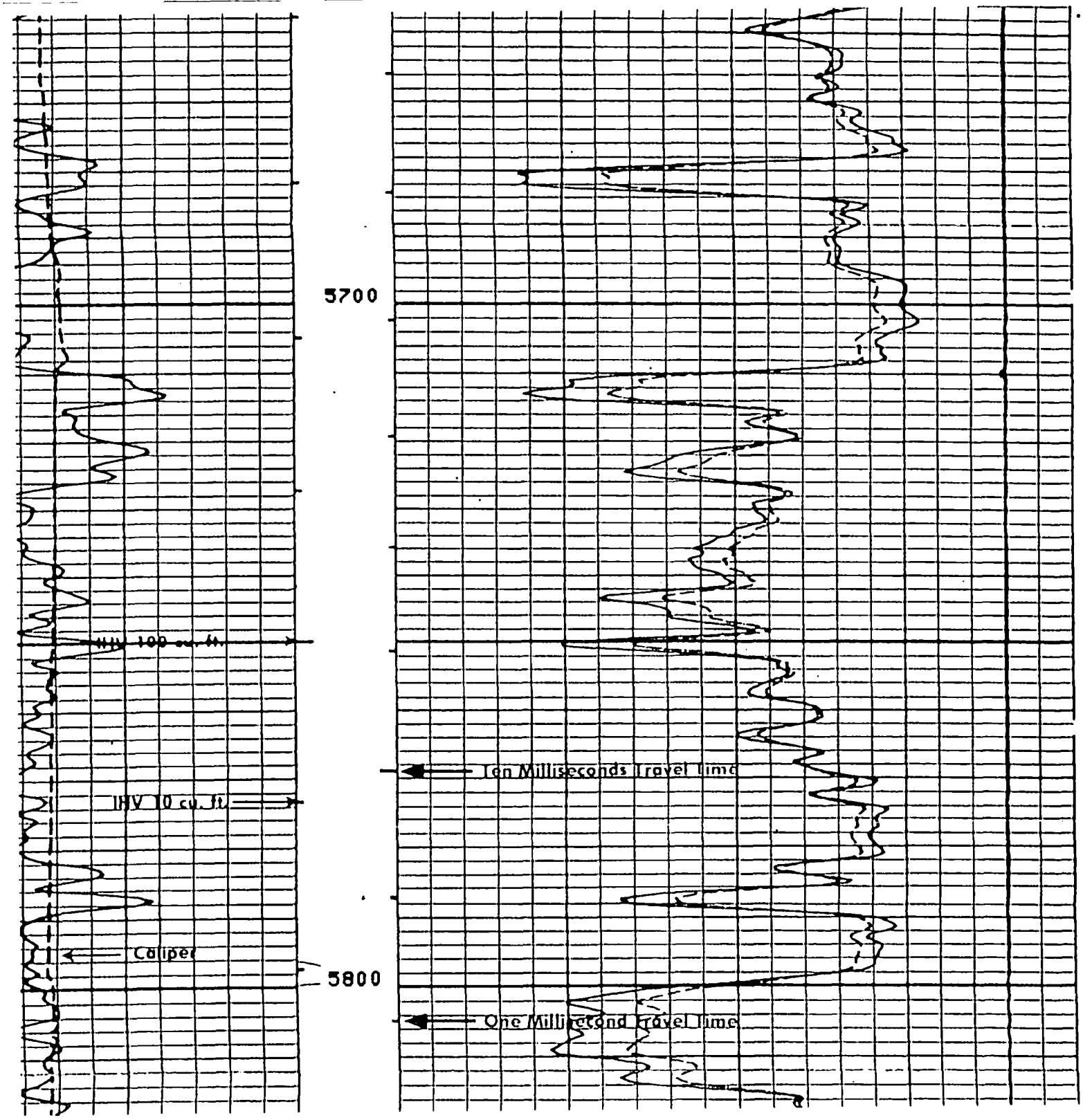
MAR02-0873



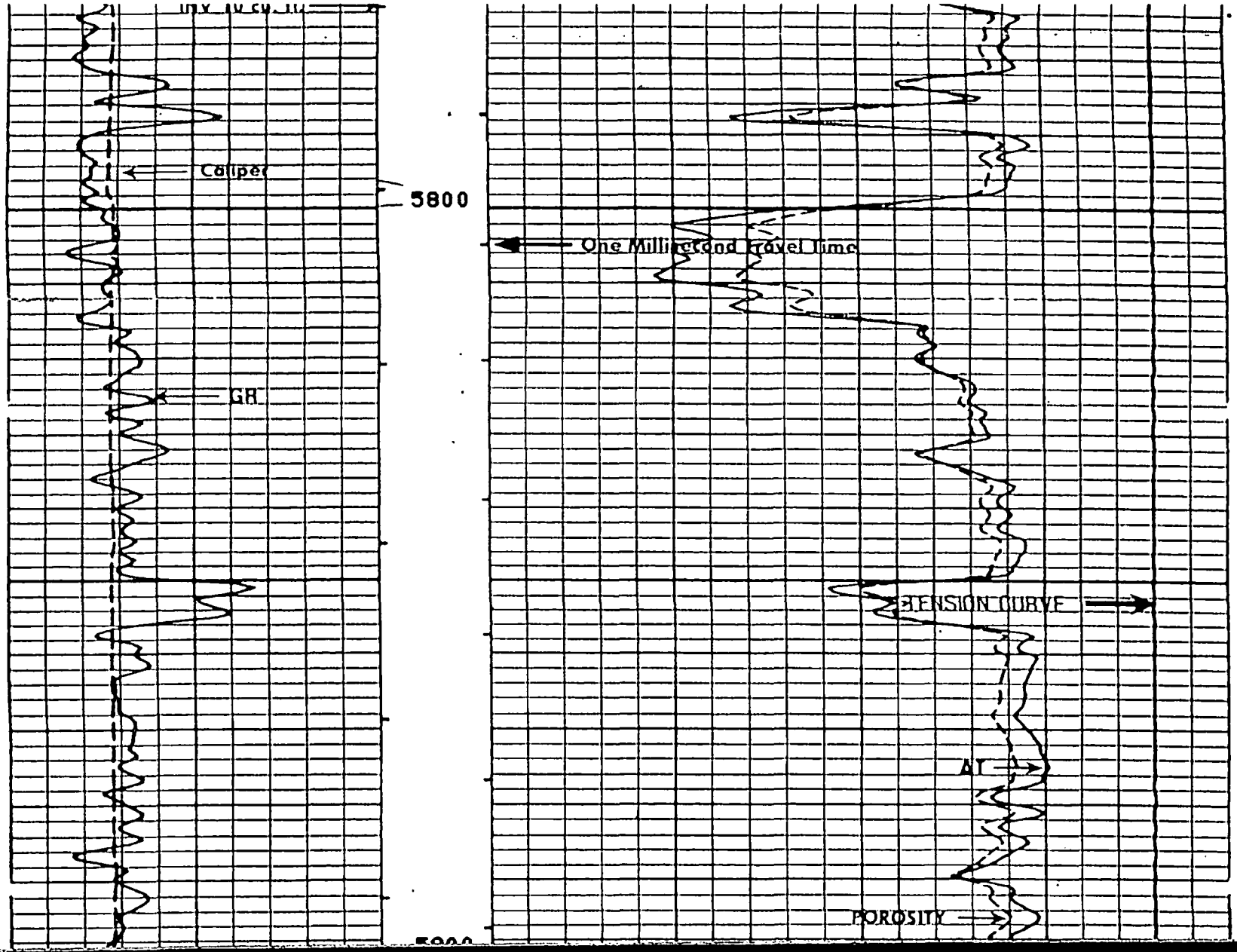
MAR02-0874



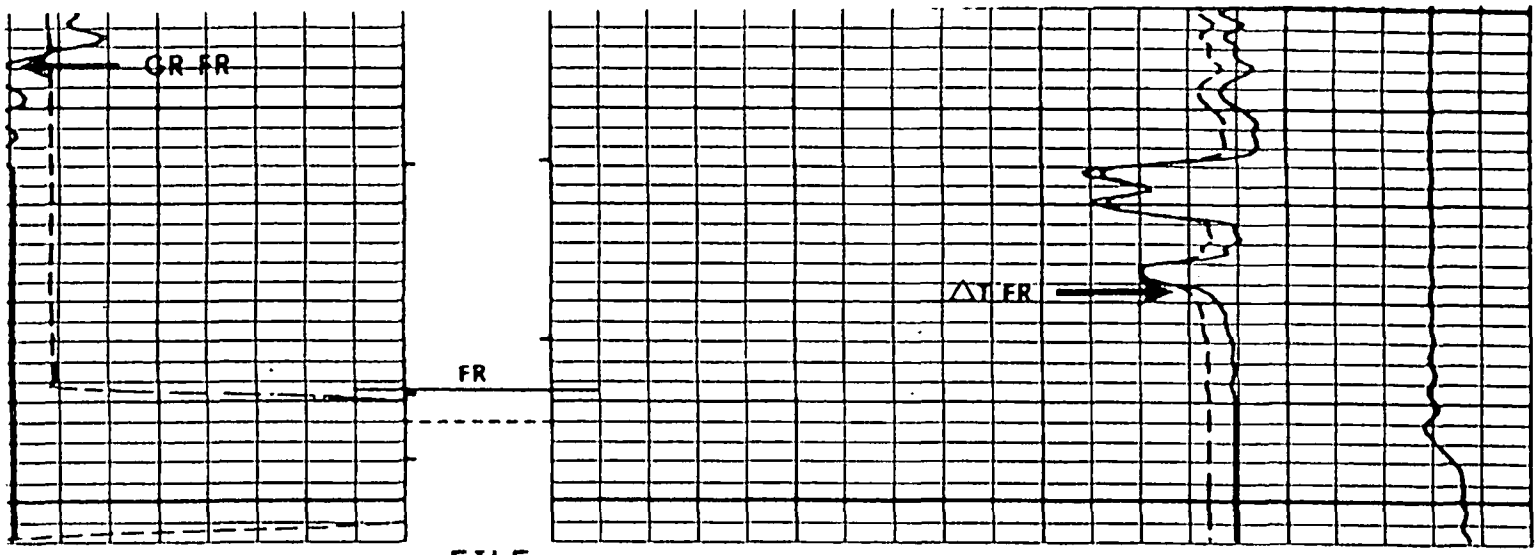
MAR02-0875


5700
5800
Ten Milliseconds Travel Time
One Millisecond Travel Time
Caliper

MAR02-0876


Caliper
5800
One Millisecond Travel Time
GR
TENSION CURVE
AT
POROSITY

MAR02-0877



FILE

4

		TENS(LB) 10000. 0.0
CALI(IN) 10 16.00		SPHI( ) LIMESTONE 0.3000 -0.100
GR (GAPI) 100.0		DT (US/F) 80.00 40.00

PARAMETERS

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
ITM	US/F	47.60	CDTS		100.0	BS	INCH	7.875
PHI		PHIX	DTF	US/F	189.0			
ID		0.0	BHS		OPEN			

PARAMETERS

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE

MAR02-0878

DTM	US/F	47.60	CDTS		100.0	BS	INCH	7.875
FPHI		PHIX	DTF	US/F	189.0			
DO		0.0	BHS		OPEN			

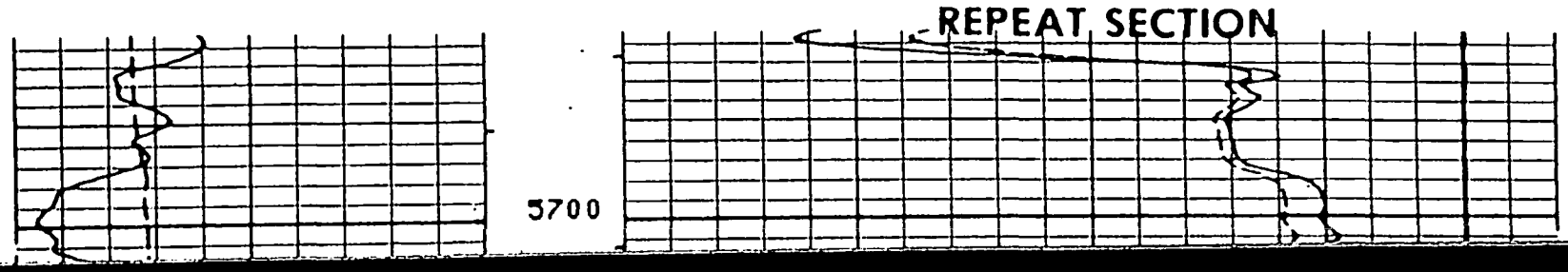
PARAMETERS

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
DTM	US/F	47.60	CDTS		100.0	BS	INCH	7.875
FPHI		PHIX	DTF	US/F	189.0			
DO		0.0	BHS		OPEN			

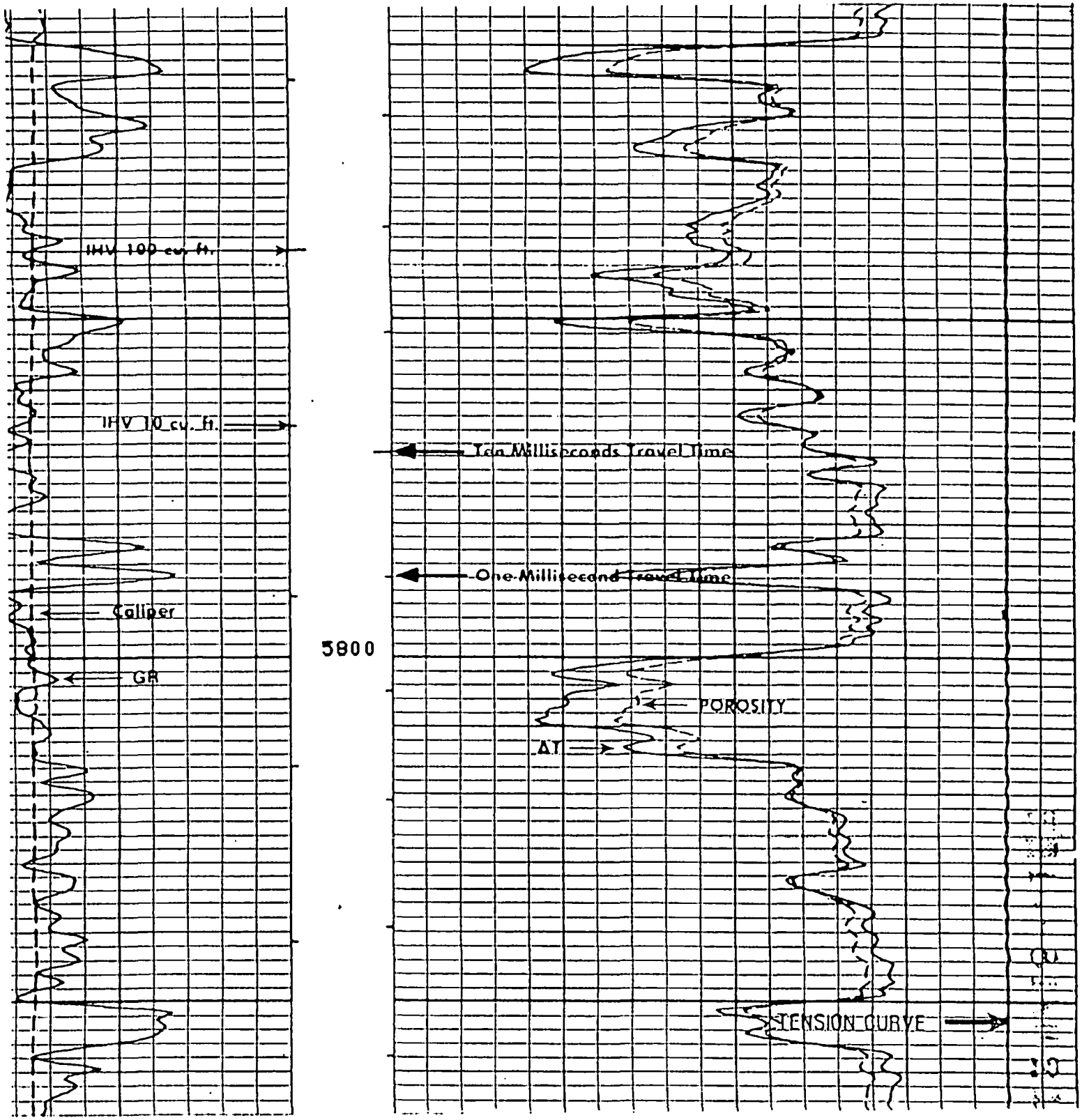
CALI(IN) 6.000 — 16.00		TENS(LB) 10000. — 0.0
		SPHI( ) LIMESTONE 0.3000 — -0.100
GR (GAPI) 0.0 — 100.0		DT (US/F) 80.00 — 40.00

FILE

2



MAR02-0879


IHV 100 cu. ft.
IHV 10 cu. ft.
Caliper
GR
5800
Ten Milliseconds Travel Time
One Millisecond Travel Time
POROSITY
ΔT
TENSION CURVE

MAR02-0880

MAR02-0881

FILE

2

REPEAT SECTION

CALI(IN)		SPHI( ) LIMESTONE	TENS(LB)
0 16.00		0.3000 -0.100	10000. 0.0
GR (GAPI)		DT (US/F)	
100.0		80.00 40.00	

PARAMETERS

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
TM	US/F	47.60	CDTS		100.0	BS	INCH	7.875
PHI		PHIX	DTF	US/F	189.0			
D		0.0	BHS		OPEN			

BEFORE SURVEY CALIBRATION SUMMARY

PERFORMED: 81/04/16
PROGRAM FILE: ISN (VERSION 18.2 80/08/23)

GTE DETECTOR CALIBRATION SUMMARY

	MEASURED BKGD	MEASURED JIG	CALIBRATED	UNITS
GR	22	169	165	GAPI

CDD CALIPER CALIBRATION SUMMARY

	MEASURED SMALL	MEASURED LARGE	CALIBRATED SMALL	CALIBRATED LARGE	UNITS
CALI	8.8	13.1	8.0	12.0	IN

MAR02-0882

SGTE DETECTOR CALIBRATION SUMMARY

	MEASURED BKGD	MEASURED JIG	CALIBRATED	UNITS
GR	22	169	165	GAPI

VCDD CALIPER CALIBRATION SUMMARY

	MEASURED SMALL	MEASURED LARGE	CALIBRATED SMALL	CALIBRATED LARGE	UNITS
CALI	8.8	13.1	8.0	12.0	IN

FILE

1

COMPANY TEXAS OIL AND GAS CORP.

WELL BUCKLES NO. A-1

FIELD EAST POPLAR

COUNTY ROOSEVELT STATE MONTANA

SCHL. FR 5939
SCHL. TD 5942
DRLR TD 5938

Elev: KB 2097
DF ---
GL 2085

MAR02-0883

Schlumberger

SIMULTANEOUS DUAL LATEROLOG MICRO-SFL

COUNTY ROOSEVELT
FIELD EAST POPLAR
LOCATION SEC. 22-28N-51E
WELL BUCKLE B NO. 1
COMPANY TEXAS OIL AND GAS CORPORATION

COMPANY TEXAS OIL AND GAS CORPORATION
PRODUCTION DEPT.
WELL BUCKLE B NO. 1
FIELD EAST POPLAR
COUNTY ROOSEVELT STATE MONTANA

LOCATION

API SERIAL NO	SEC.	TWP	RANGE
	22	28N	51E

Other Services:
FDC/CNL/GR

Permanent Datum: GL ; Elev.: 2106
Log Measured From KB 13 ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 2119
D.F. ----
G.L. 2106

Date	8-21-81			
Run No.	ONE			
Depth—Driller	5920			
Depth—Logger (Schl.)	5906			
Btm. Log Interval	5905			
Top Log Interval	0			
Casing—Driller	8-5/8 @ 1200	@	@	@
Casing—Logger	1178			
Bit Size	7- 7/8			
Type Fluid in Hole	SALT STARCH-GEL			
Dens. / Visc.	10.4 / 40			
pH / Fluid Loss	7.0 / 10 ml	ml	ml	ml
Source of Sample	MUD TANK			
Rm @ Meas. Temp.	.053 @ 70 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	.045 @ 70 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	.080 @ 70 °F	@ °F	@ °F	@ °F
Source: Rmf / Rmc	M / C			
Rm @ BHT	.021 @199 °F	@ °F	@ °F	@ °F
TIME: Circulation Stopped	0630 8-21			
TIME: Logger on Bottom	1800			
Max. Rec. Temp.	199 °F	°F	°F	°F
Equip. / Location	8247 / WLSTN 4109			
Recorded By	SORENSEN - BARBER			
Witnessed By	DYER			

MAR-827

MAR02-0884

	ONE				
·der No.	243384				
l	FULL				
PM CL.	304590				
ENT DATA					
ᵊ)	DLM-B-752				
ᵊ)	MRM-AB-2710				
(DLC)	DLC-BB-1751				
(SRE)	SRE-B-1928				
.S)	DLS-D-885				
:S)	SRS-D-713				
:trode (DLE)	DLE-DB-807				
r Panel	CPU-CBB-1409/1408				
ırder (TTR)	MTU-D-2775				
:oder (DRE)	OMU-CBA-1001				
Vheel (CPW)	IDW-B-1972				
s: Type	CME-7	CALIPER			
g. No.	2	1			
None S. O. Inches	NONE				
.TION DATA					
BKG. API	48				
Source API	207				
IG DATA					
Sensitivity	100/200				
Scale -100 Div.	0-100/0-200				
DC FT	1				
A					
A HOLE TEMPERATURE					
·ing Hole	1730				
ım Reached	1800				
Off Bottom	1810				
of Hole	2000				
D to Therm.	36				
ıeter #1	199 °F	°F	°F	°F	
neter #2	°F	°F	°F	°F	
ıeter #3	°F	°F	°F	°F	
M DRILL STEM TEST					
Rw @ 100 °F	ΩM	ΩM	ΩM	ΩM	
lw @ 100 °F	ΩM	ΩM	ΩM	ΩM	

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Ho
GR	5200	0-200	0-100
GR	1165	0-100	0-200

REMARKS:

TENSION MEASURE POINT: -7"

CALIPER LR AT 1223'

MSFL ON 5" ONLY

MSFL LR AT 1223'

ıterpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any inter-
ıtions, 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
ined 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
litions as set out in our current Price Schedule

AFTER SURVEY TOOL CHECK SUMMARY

PERFORMED: 81/08/22

MAR02-0885

DST #1 - Rw @ 100 °F	ΩM	ΩM	ΩM	ΩM	
DST #2 - Rw @ 100 °F	ΩM	ΩM	ΩM	ΩM	

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 interpretations, 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 as set out in our current Price Schedule.

AFTER SURVEY TOOL CHECK SUMMARY

PERFORMED: 81/08/22
PROGRAM FILE: DST (VERSION 18.2 81/04/25)

DSTD TOOL CHECK

	PLUS		
	BEFORE	AFTER	UNITS
LLS	31.60	31.63	OHM
LLD	31.60	31.66	OHM

DST TOOL CHECK

	ZERO		PLUS		
	BEFORE	AFTER	BEFORE	AFTER	UNITS
CMSF	0.0	-0.7	999.9	999.9	MM/M
I1	0.0	0.8	200.0	205.5	MM/M

FILE

20

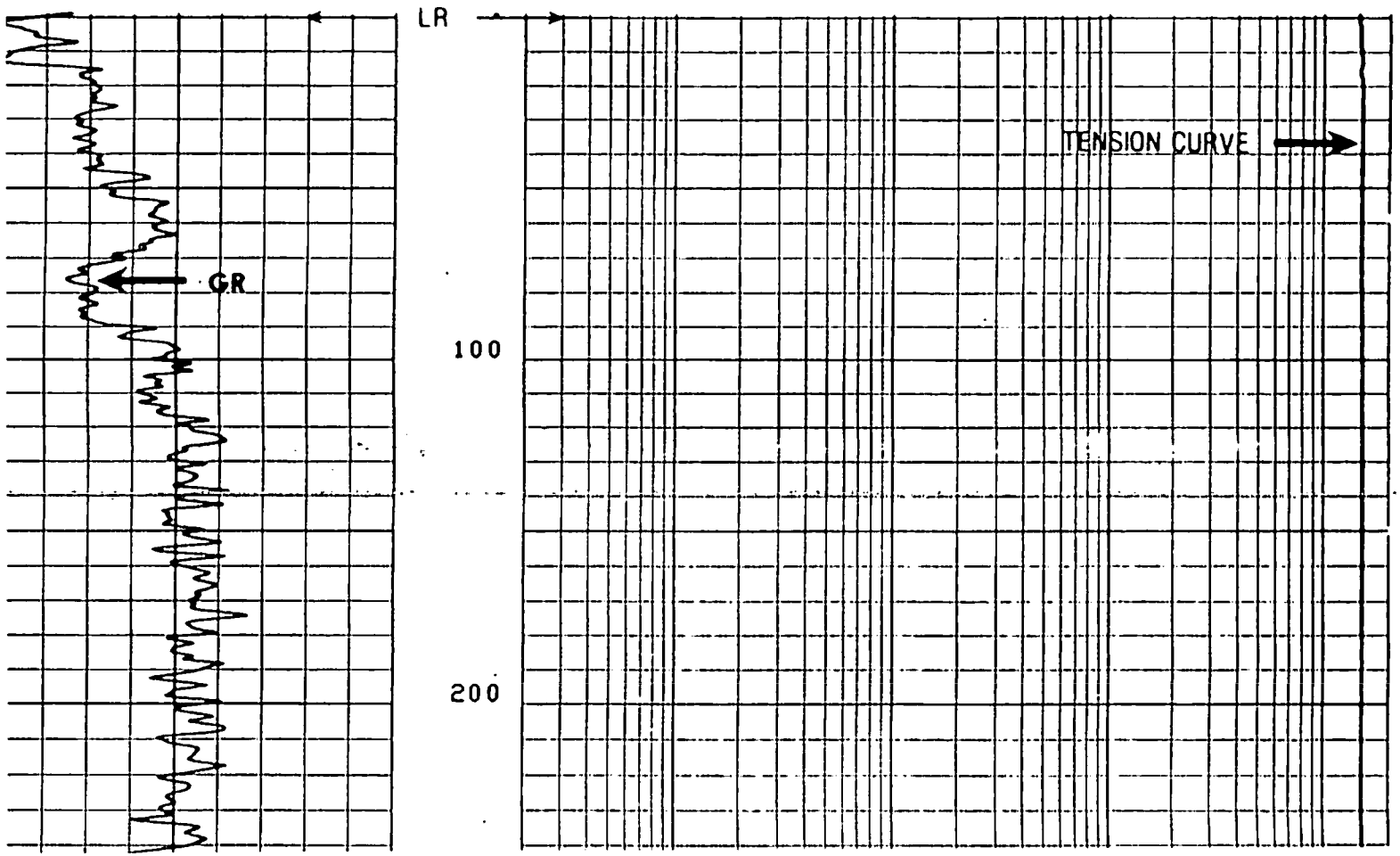
PARAMETERS

BHS	OPEN	FPHI	PHIX	BS	INCH 7.875
DO	0.0				

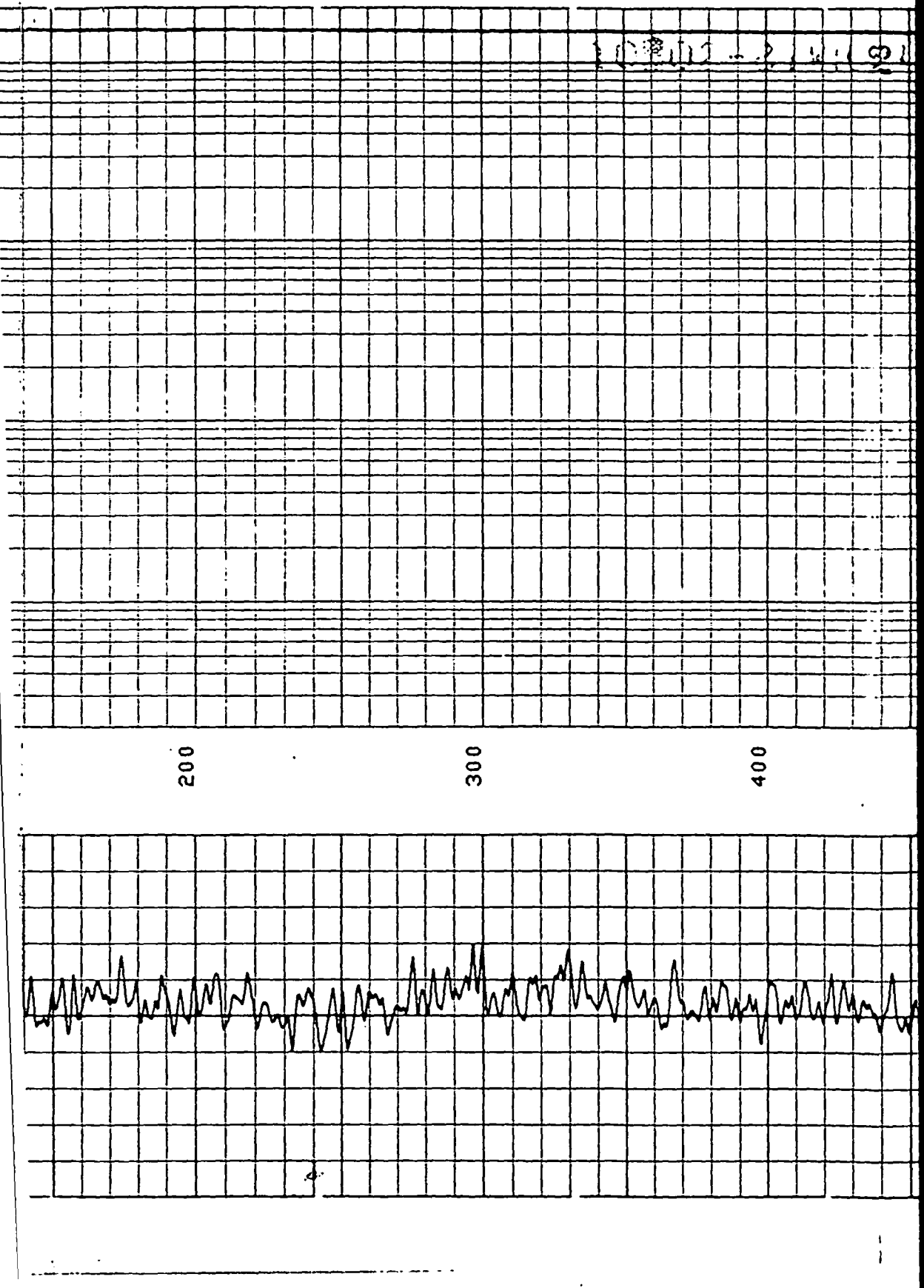
GR (GAPI)		LLD (OHMM)		TENS(LB)	
.0	100.0	2000.	200000	10000.	0.0
CALI(IN)		LLS (OHMM)			
5.00	26.00	0.2000			2000.
CALI(IN)		LLD (OHMM)			
.000	16.00	0.2000			2000.

FILE

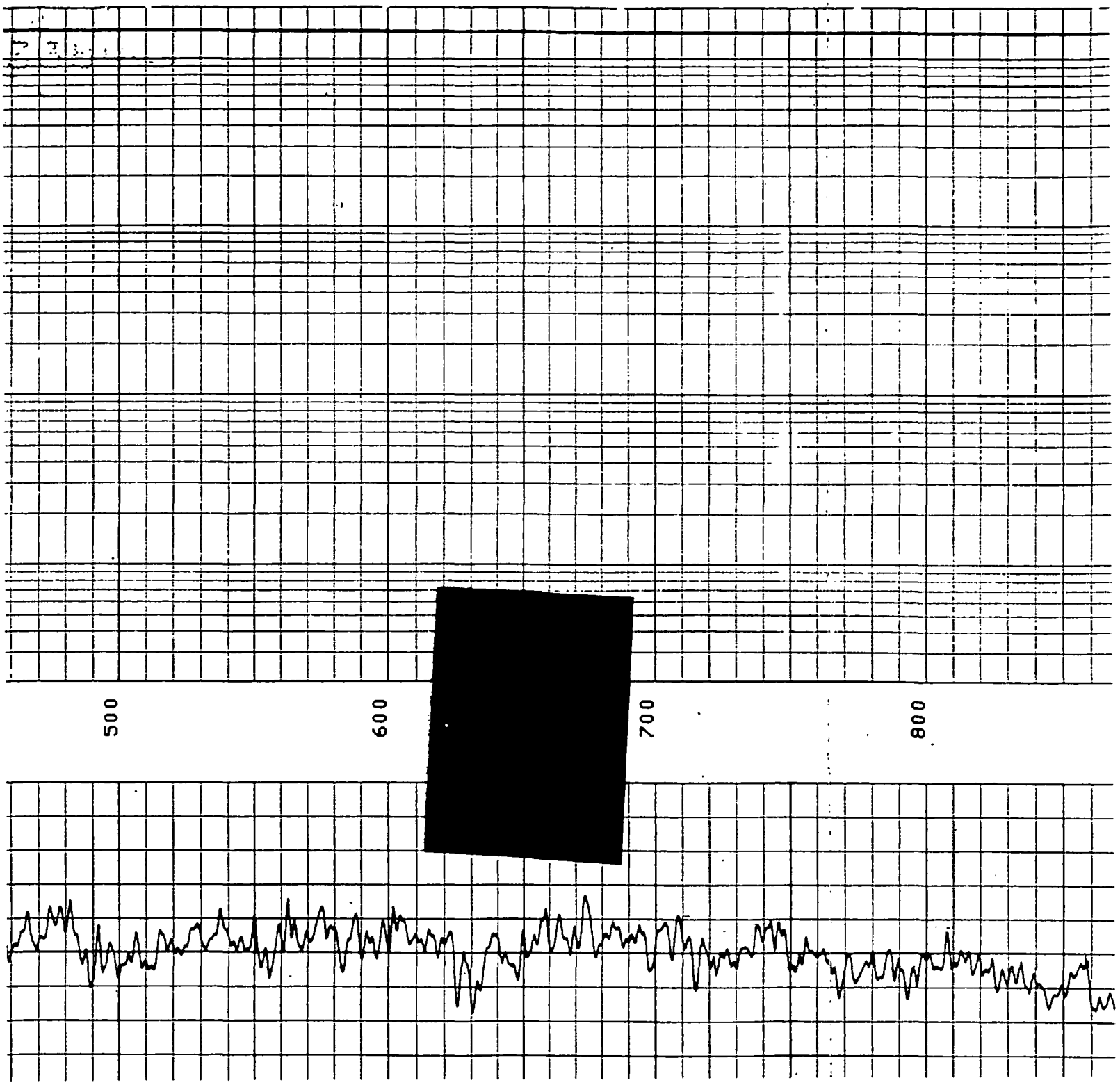
18



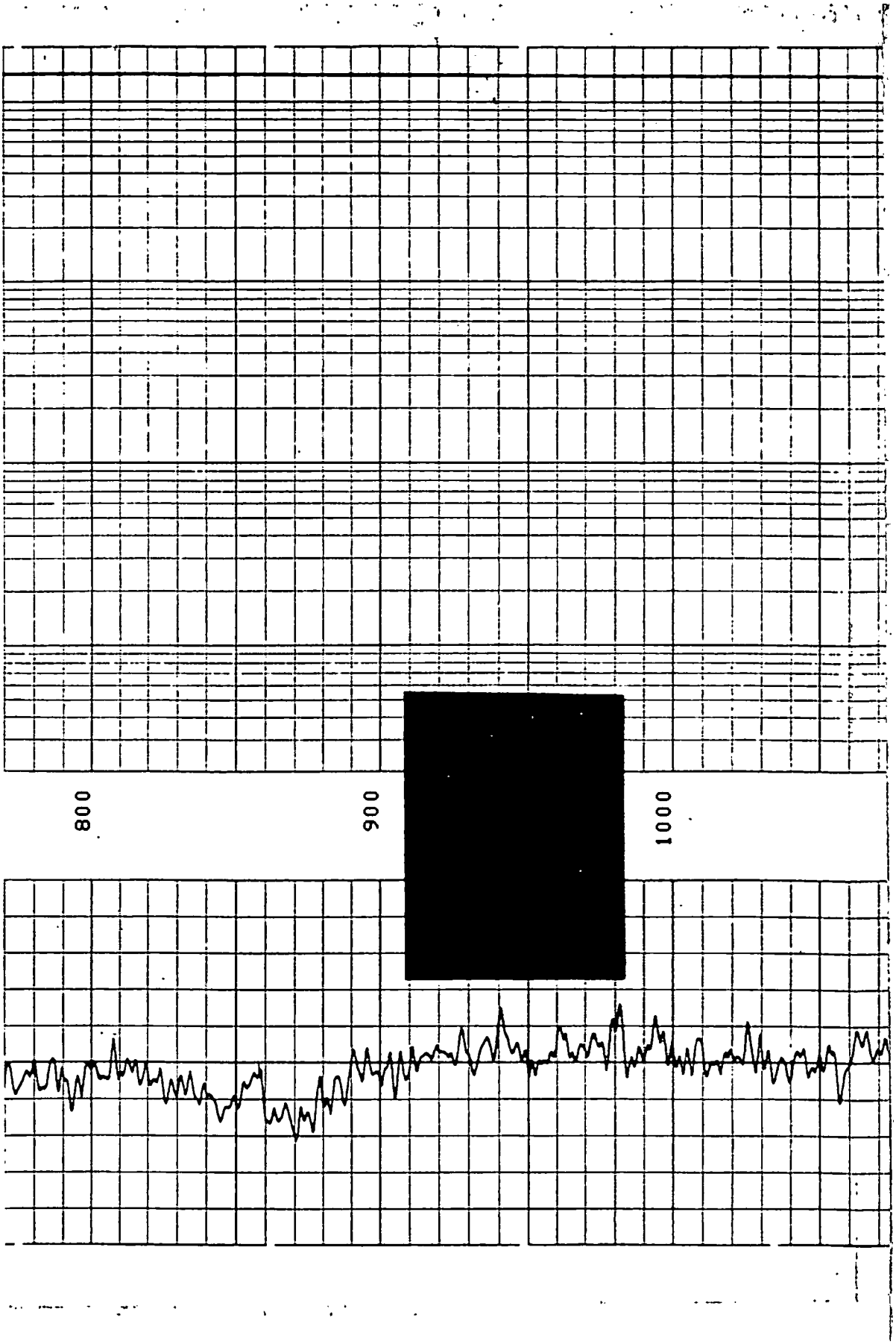
MAR02-0887



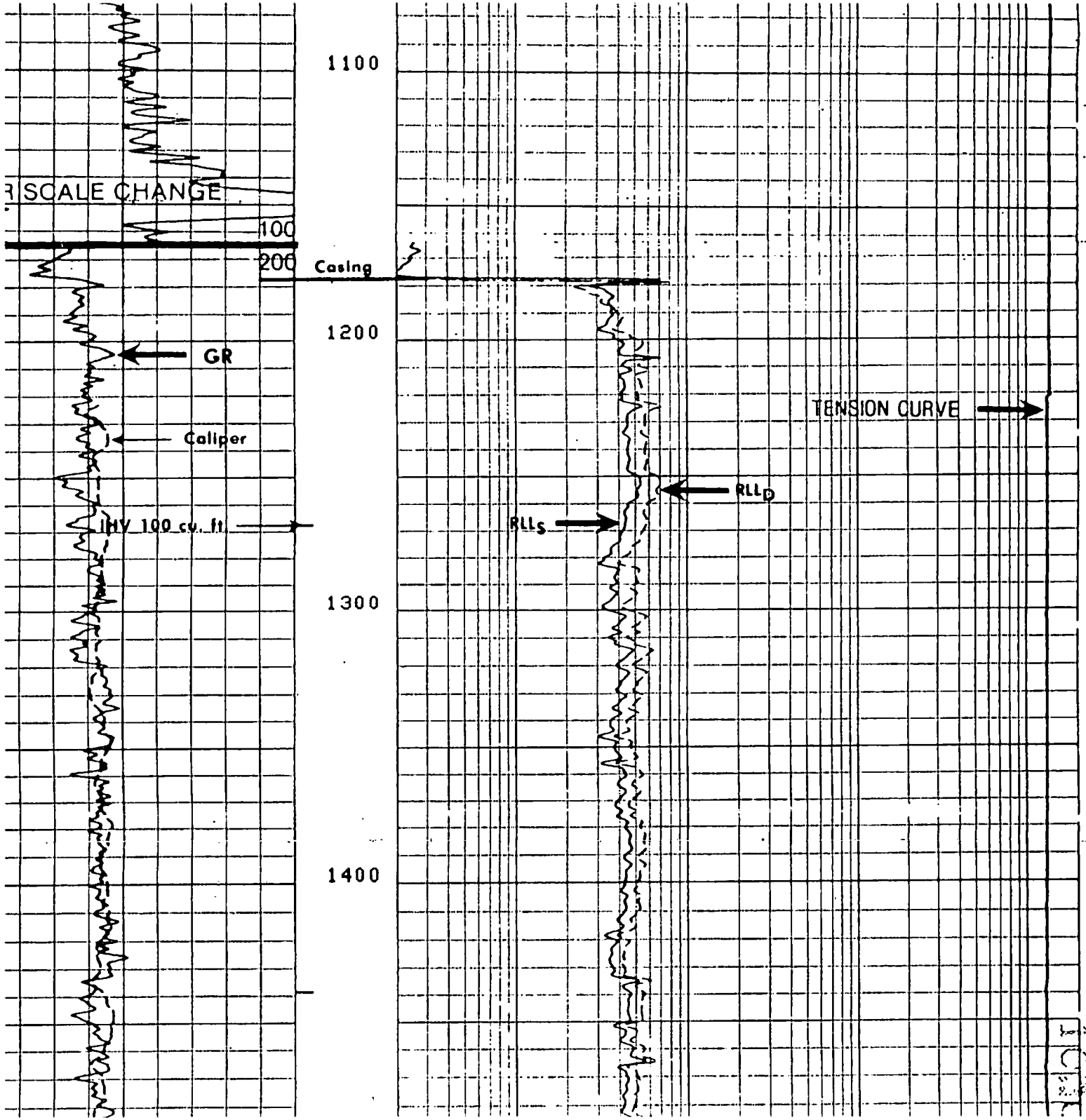
MAR02-0888



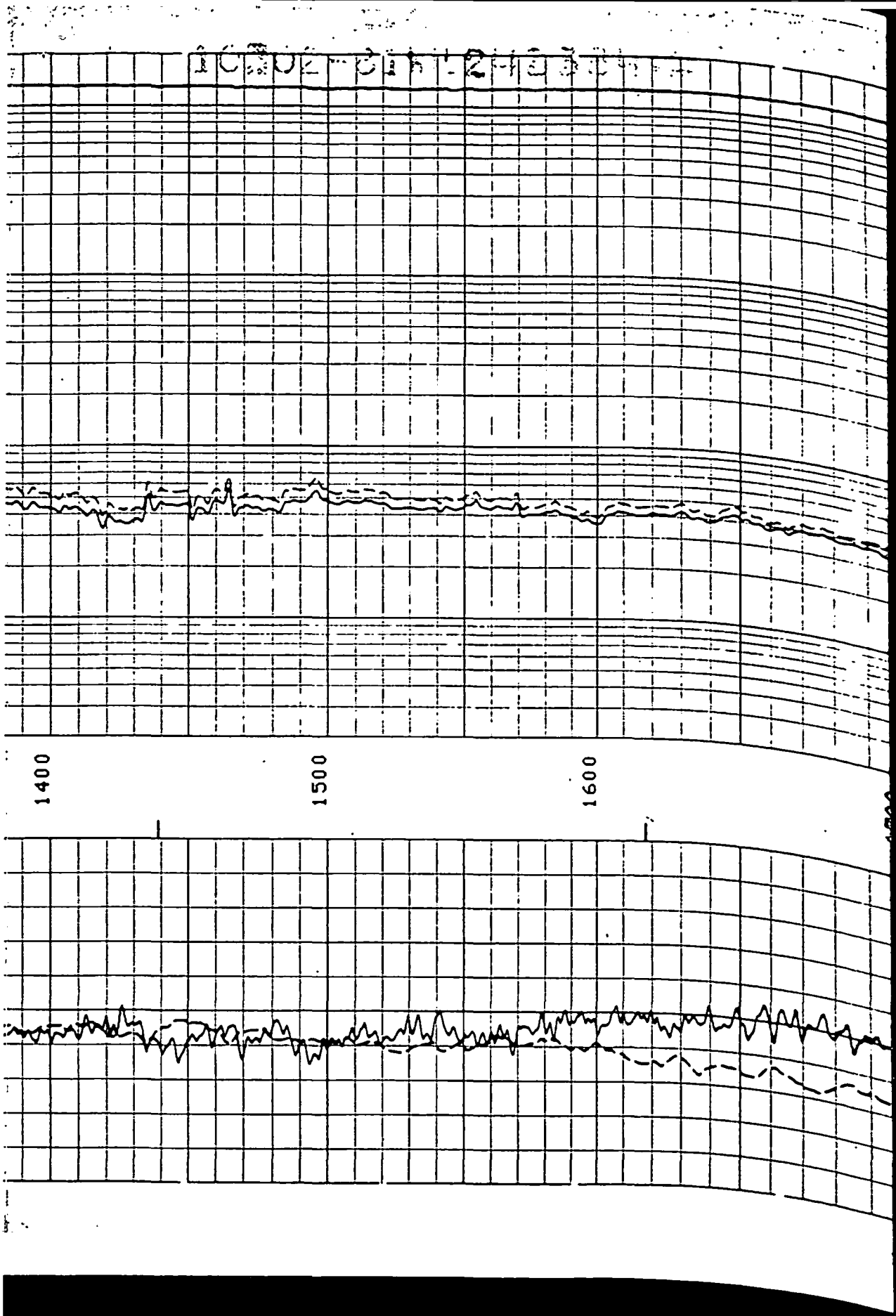
MAR02-0889



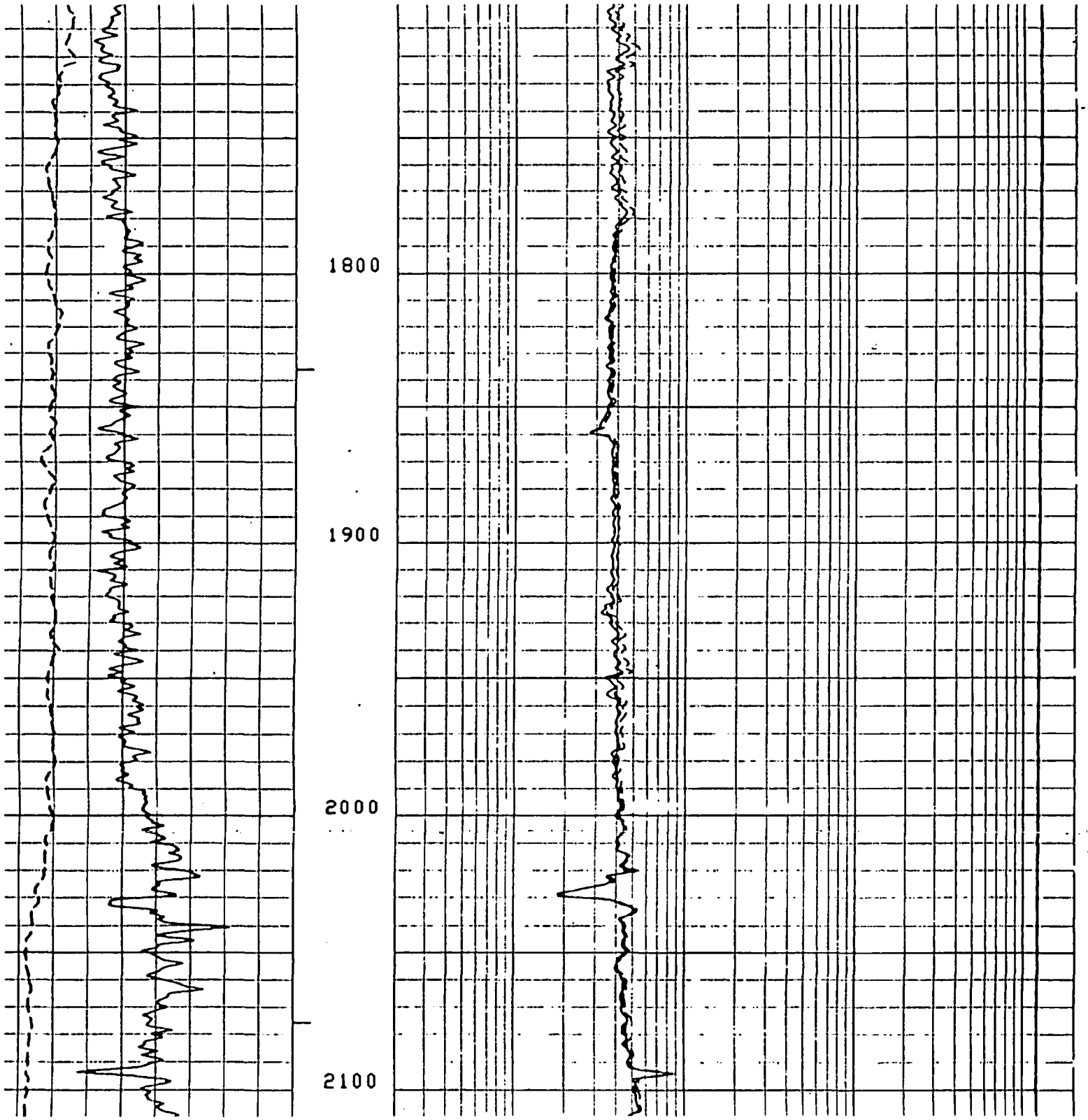
MAR02-0890


1100
R SCALE CHANGE
100
200
Casing
1200
GR
Caliper
TENSION CURVE
RLLD
RLLS
IHV 100 cu. ft.
1300
1400

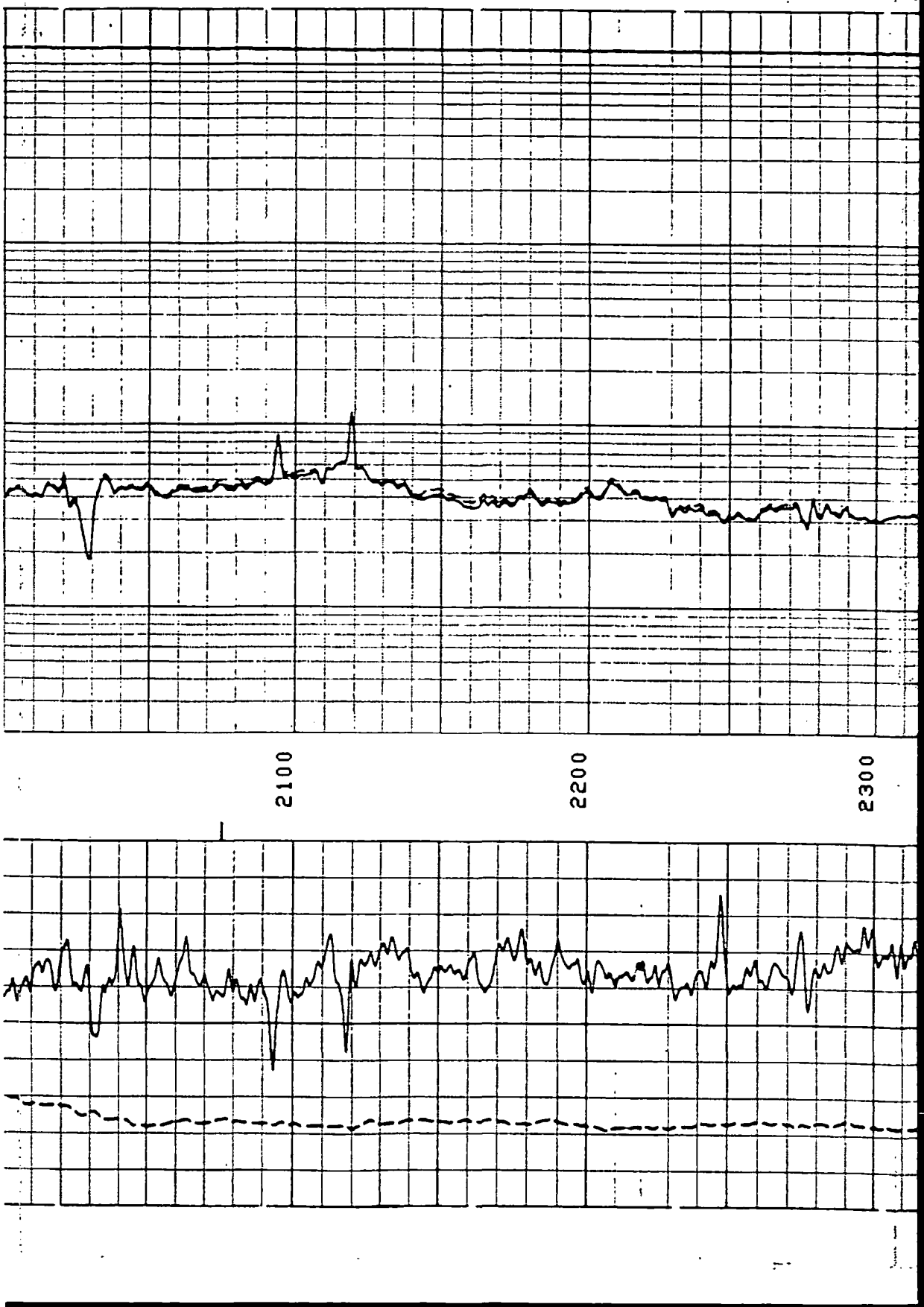
MAR02-0891



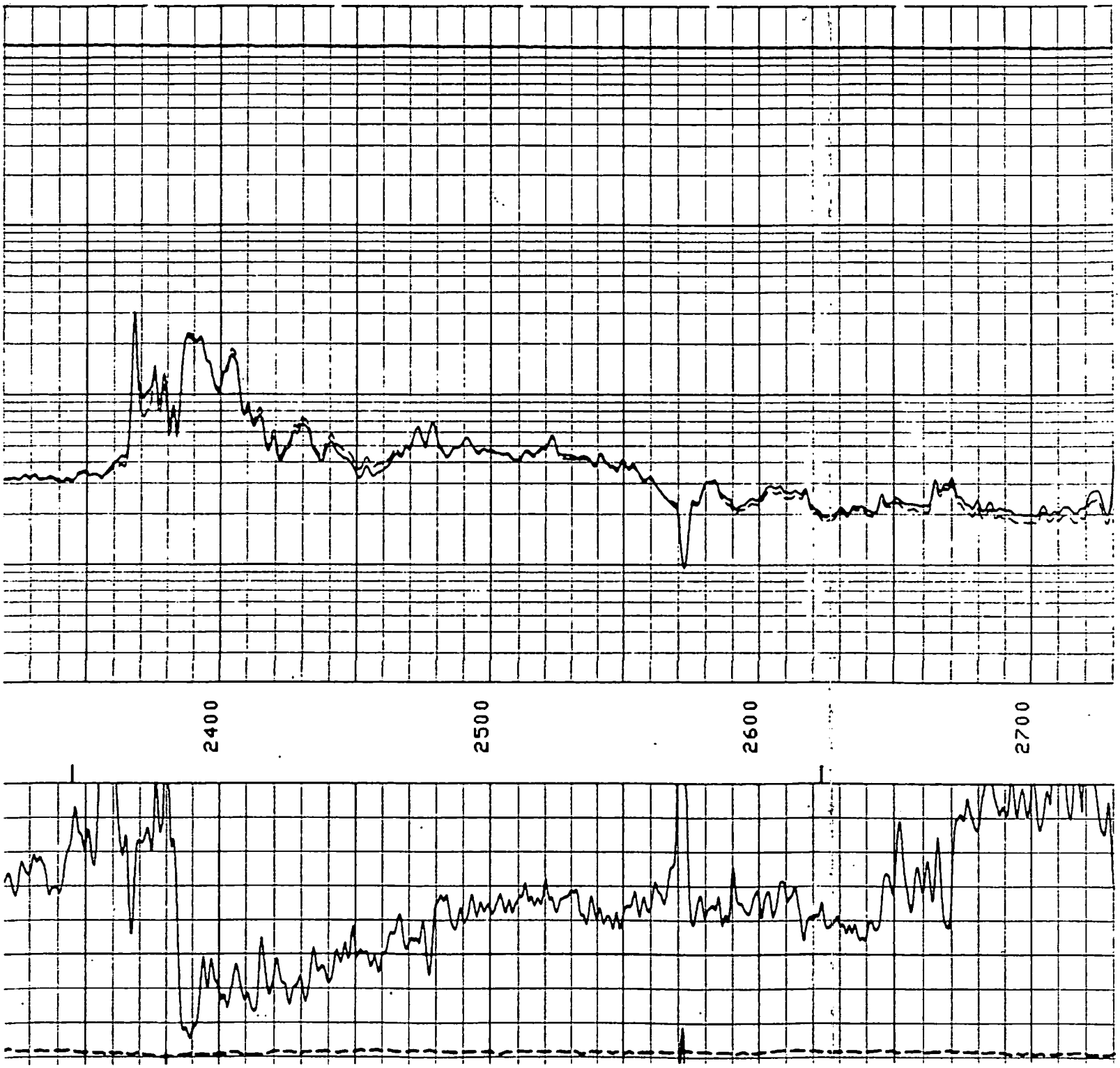
MAR02-0892



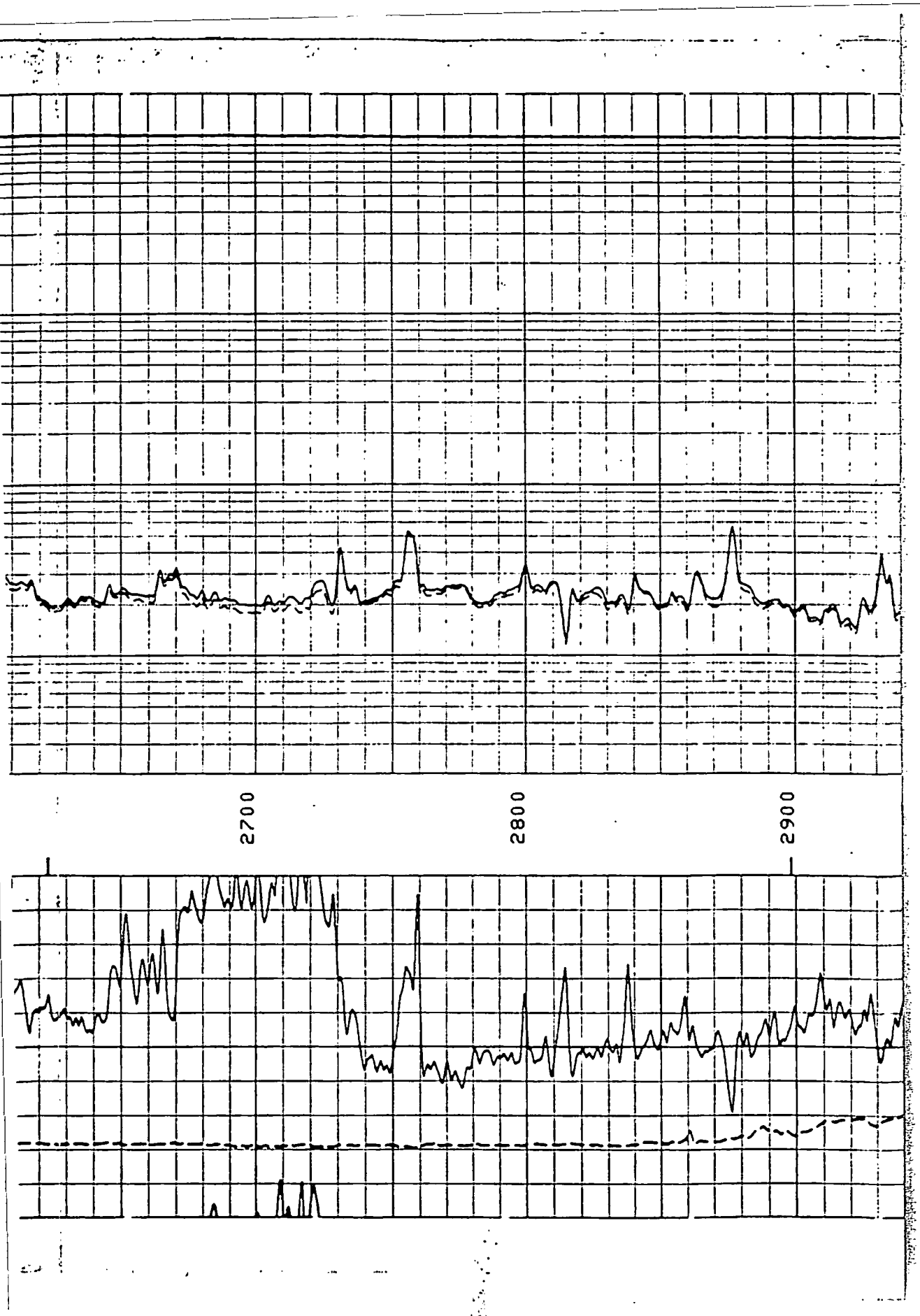
MAR02-0893



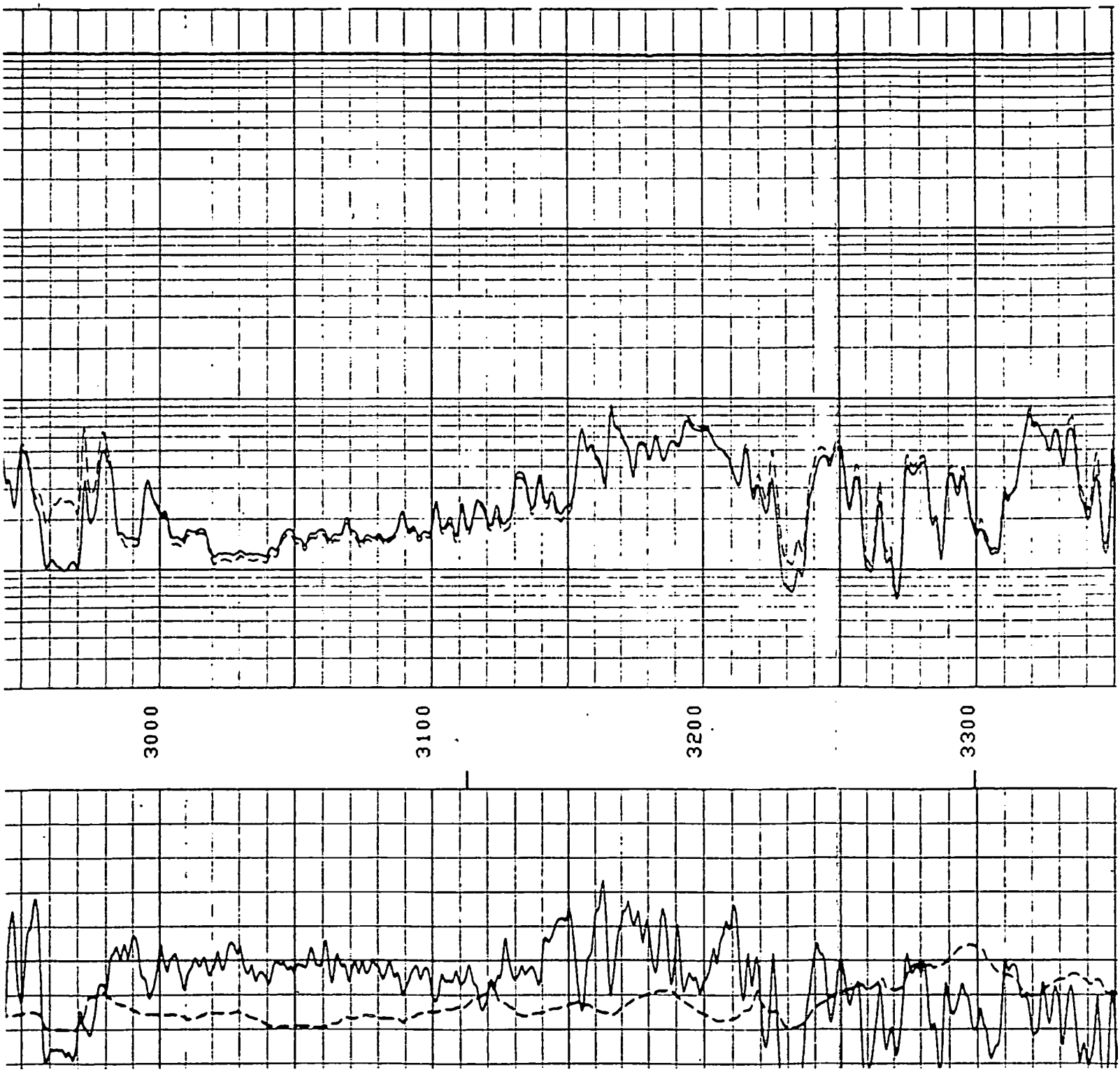
MAR02-0894



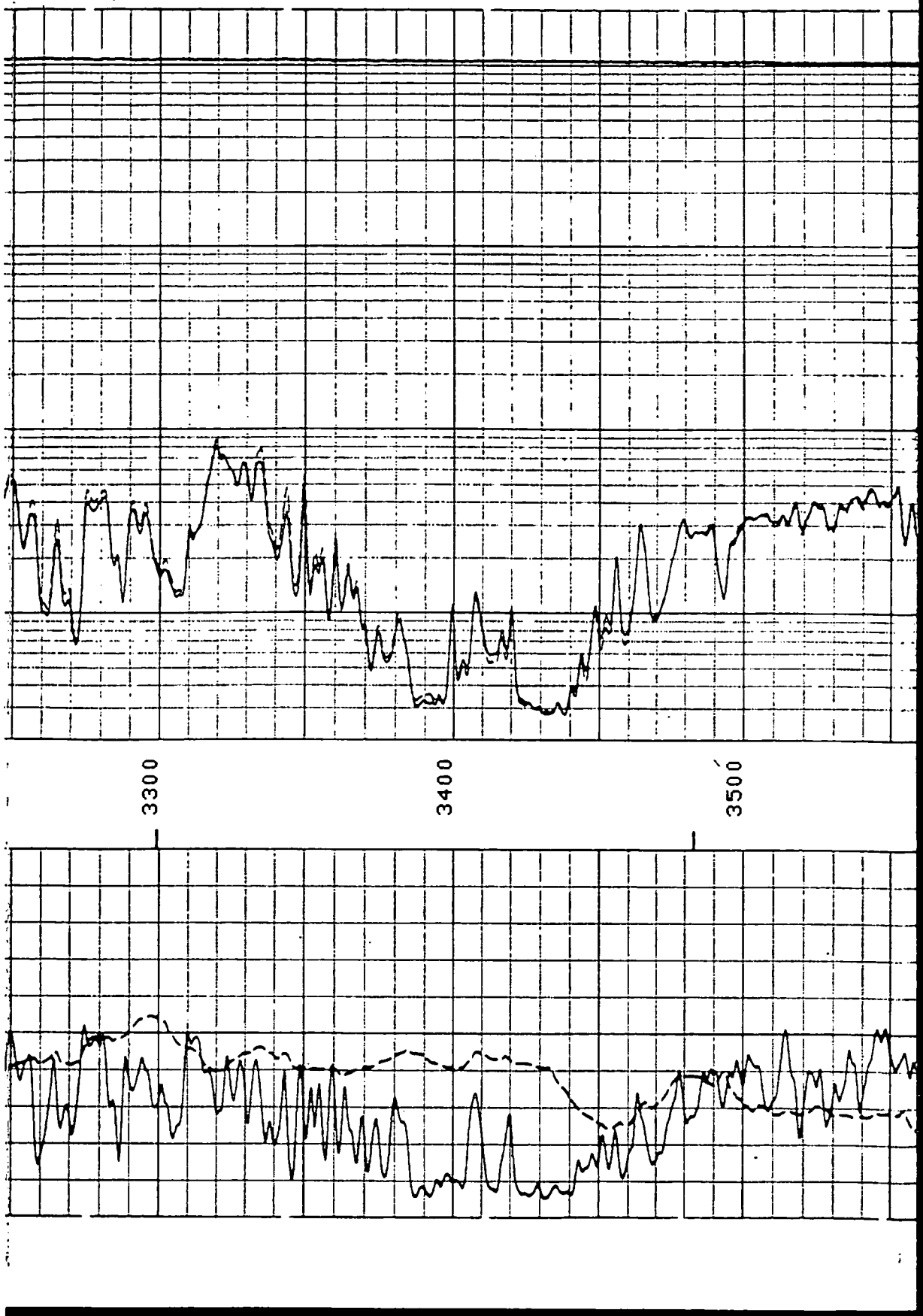
MAR02-0895



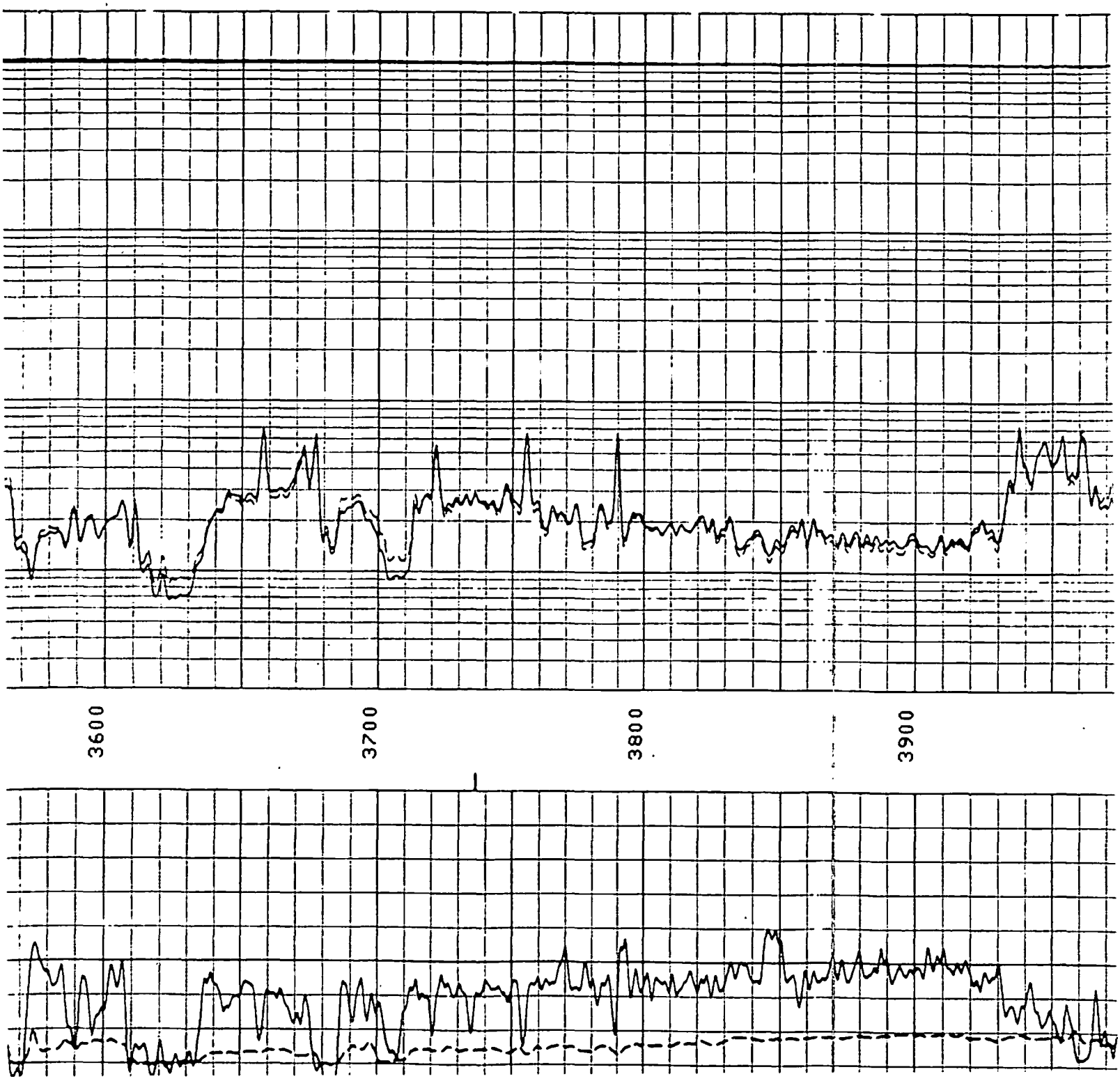
MAR02-0896



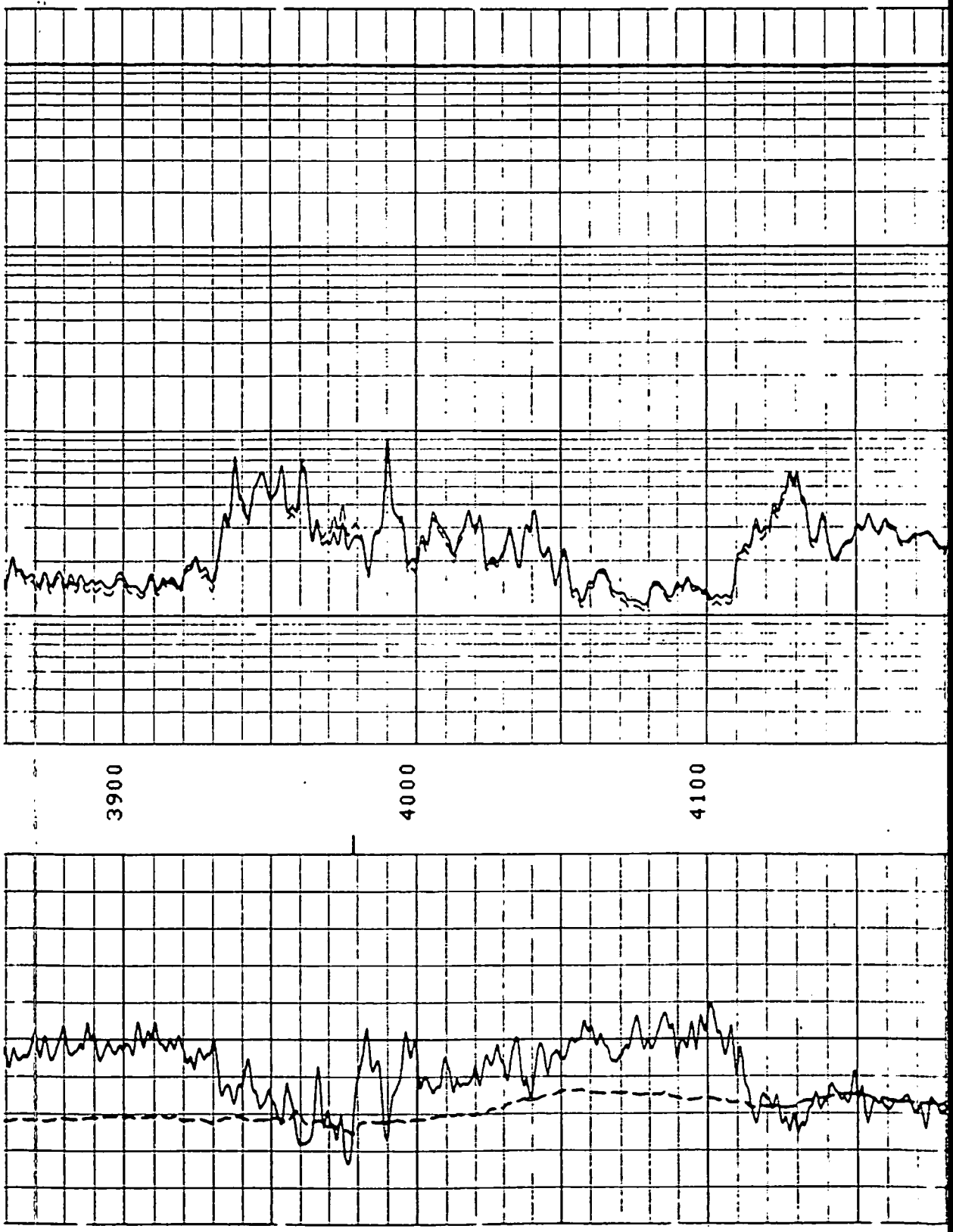
MAR02-0897



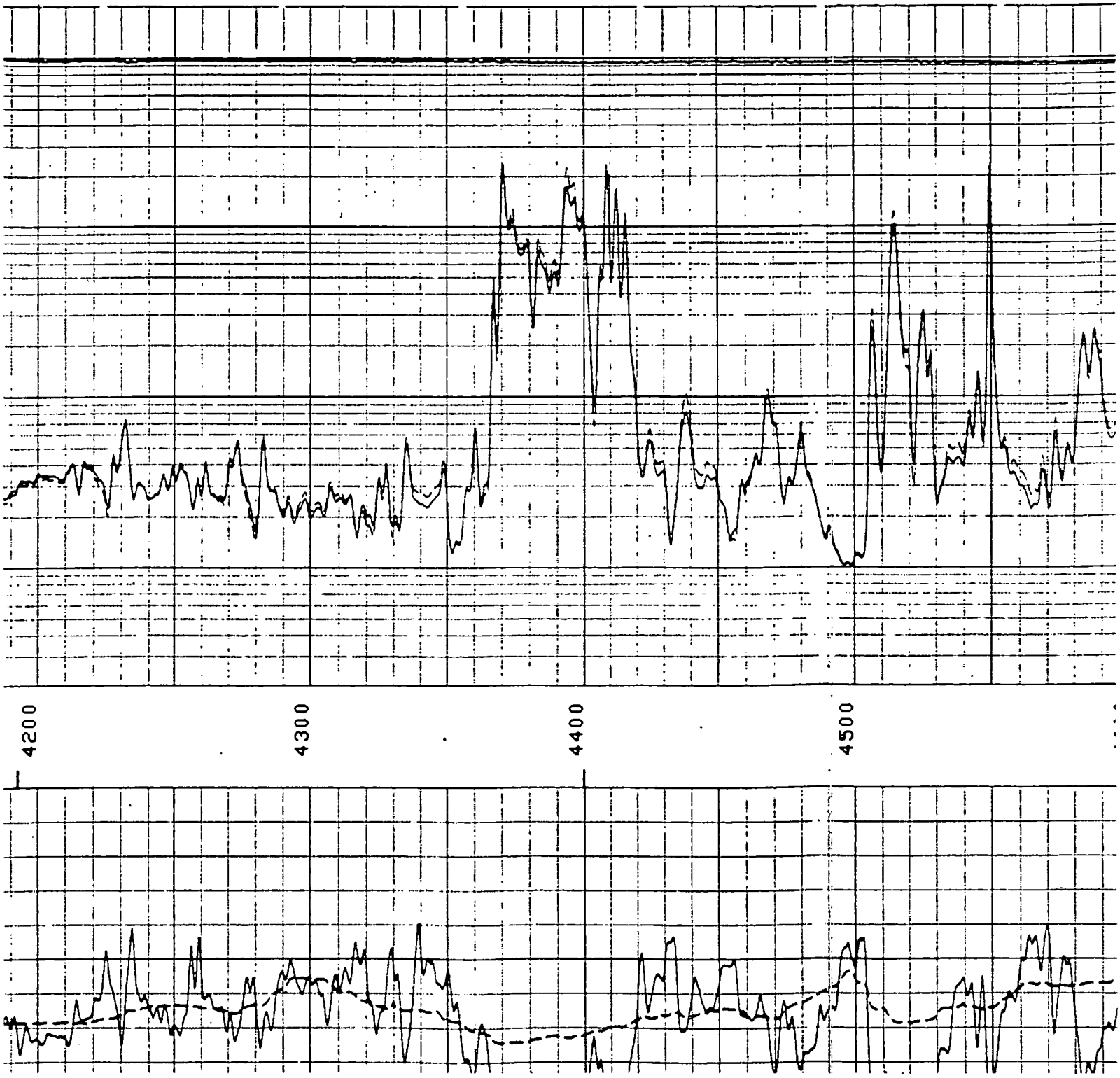
MAR02-0898



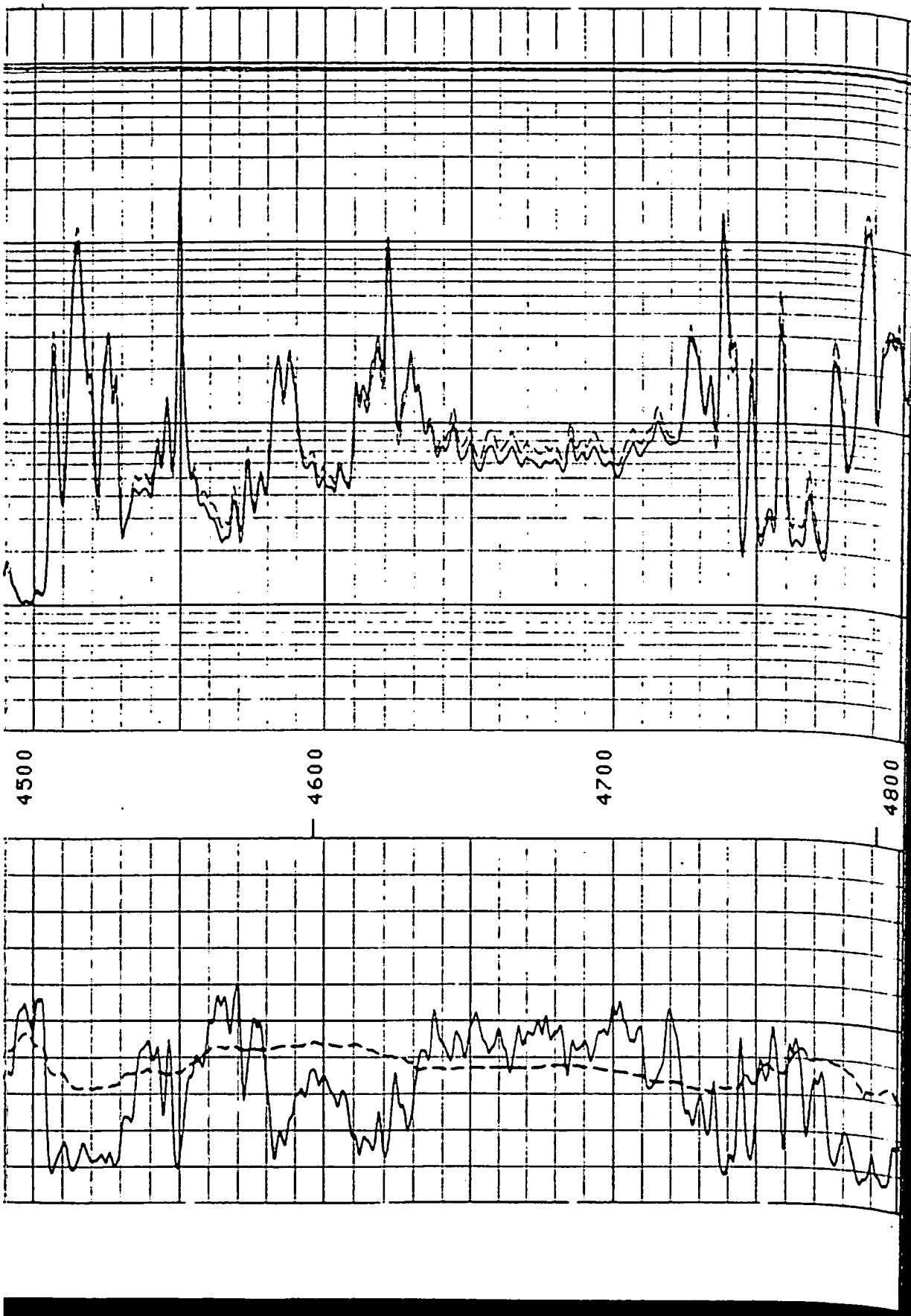
MAR02-0899



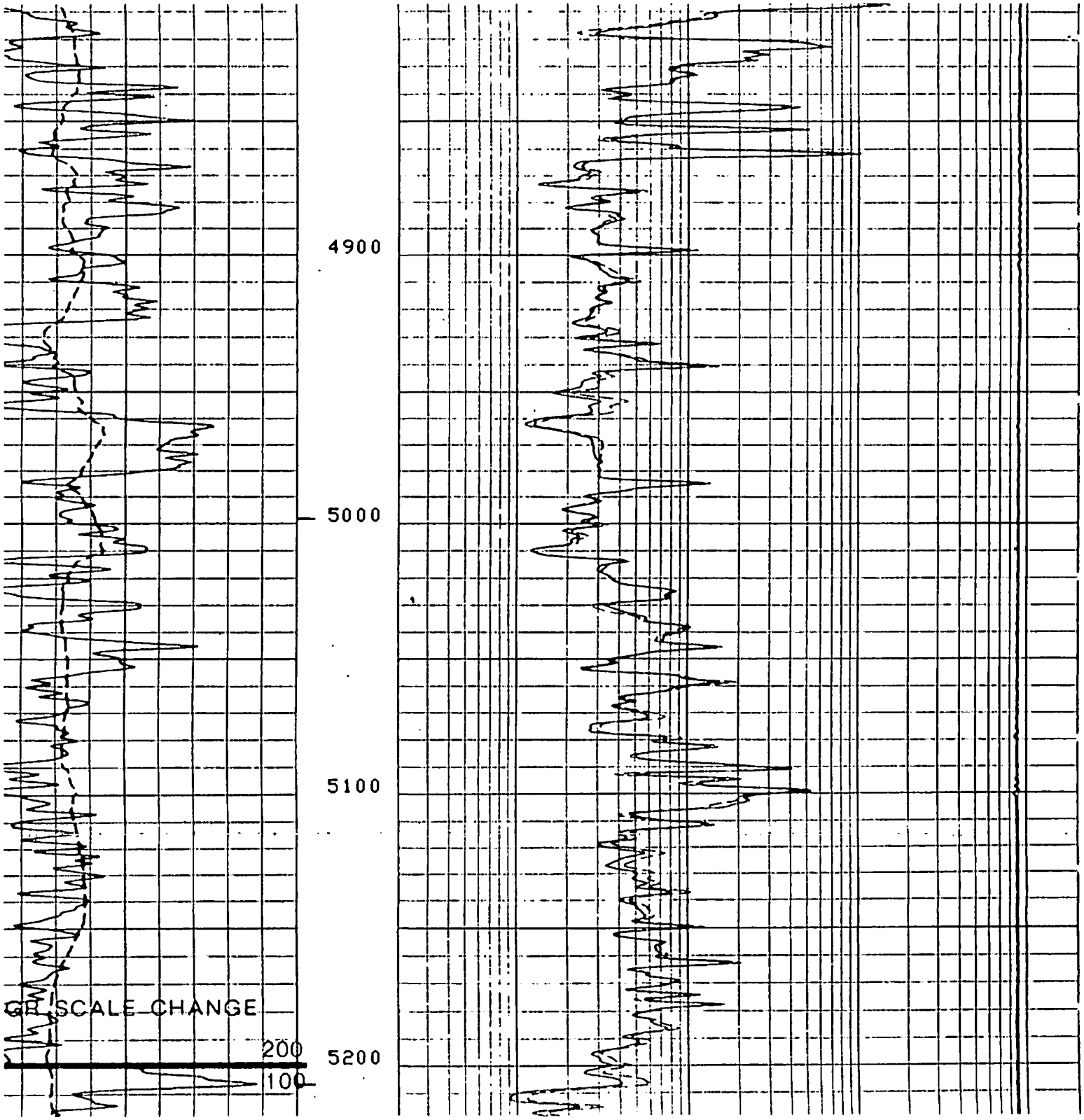
MAR02-0900



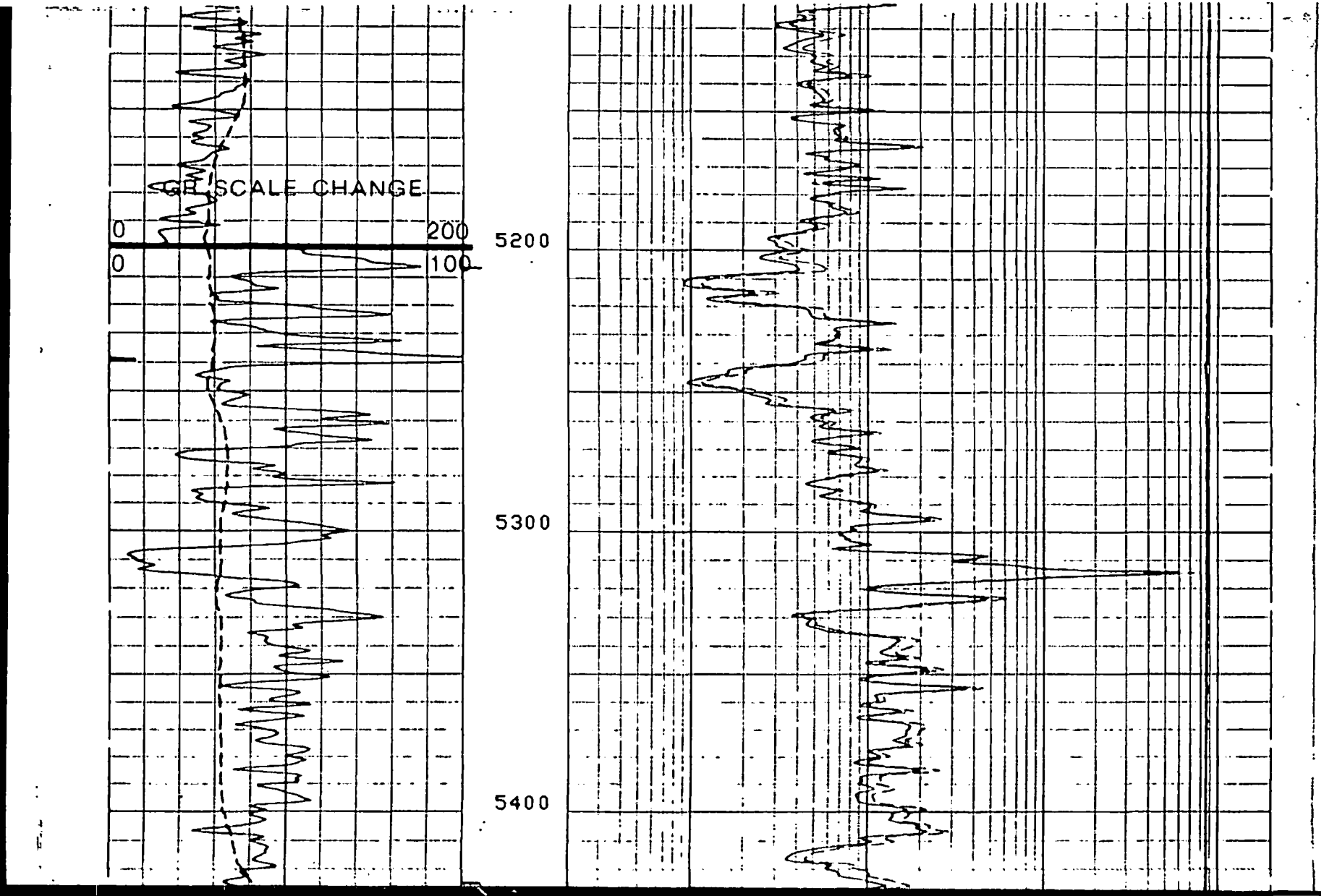
MAR02-0901



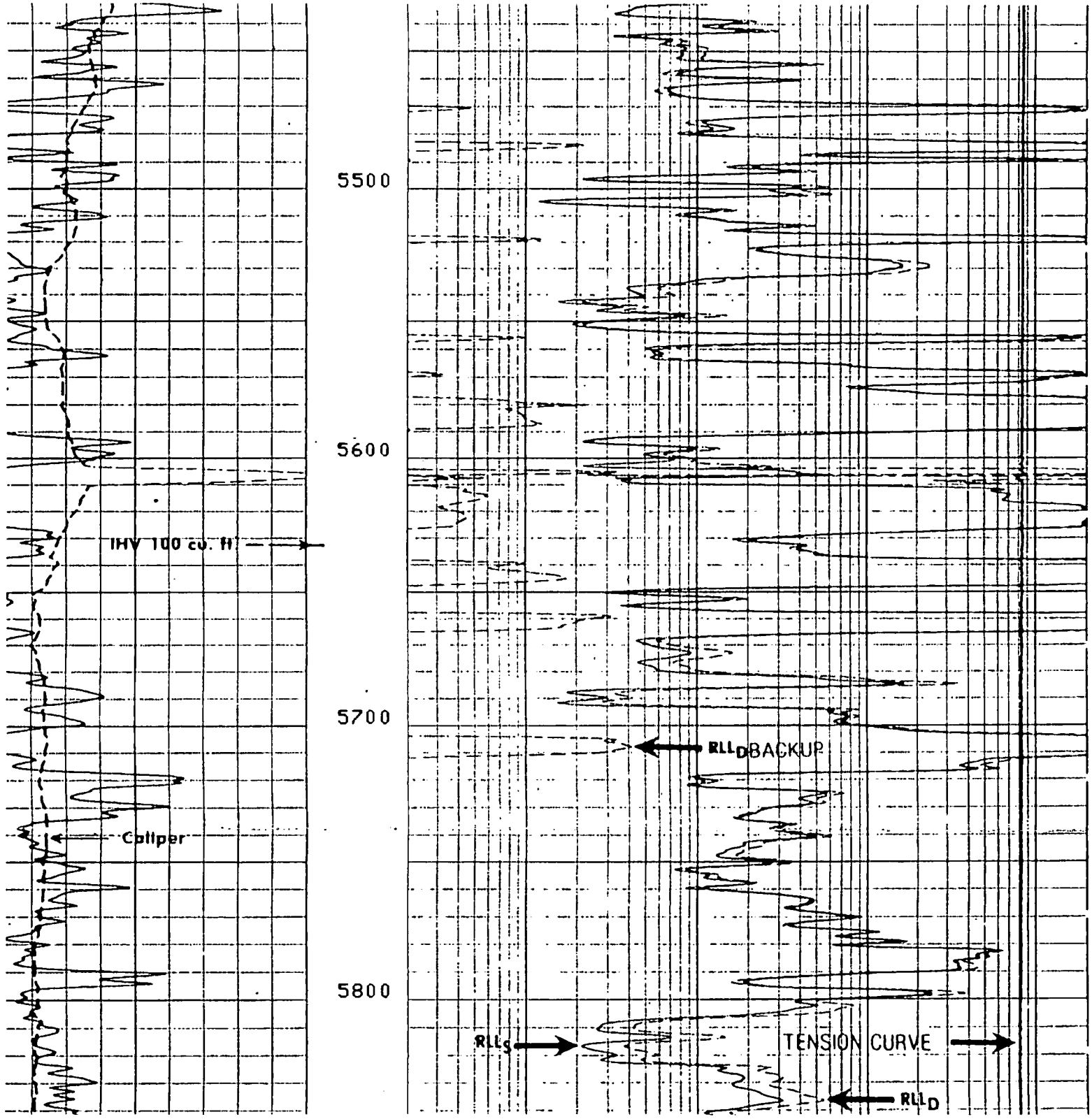
MAR02-0902



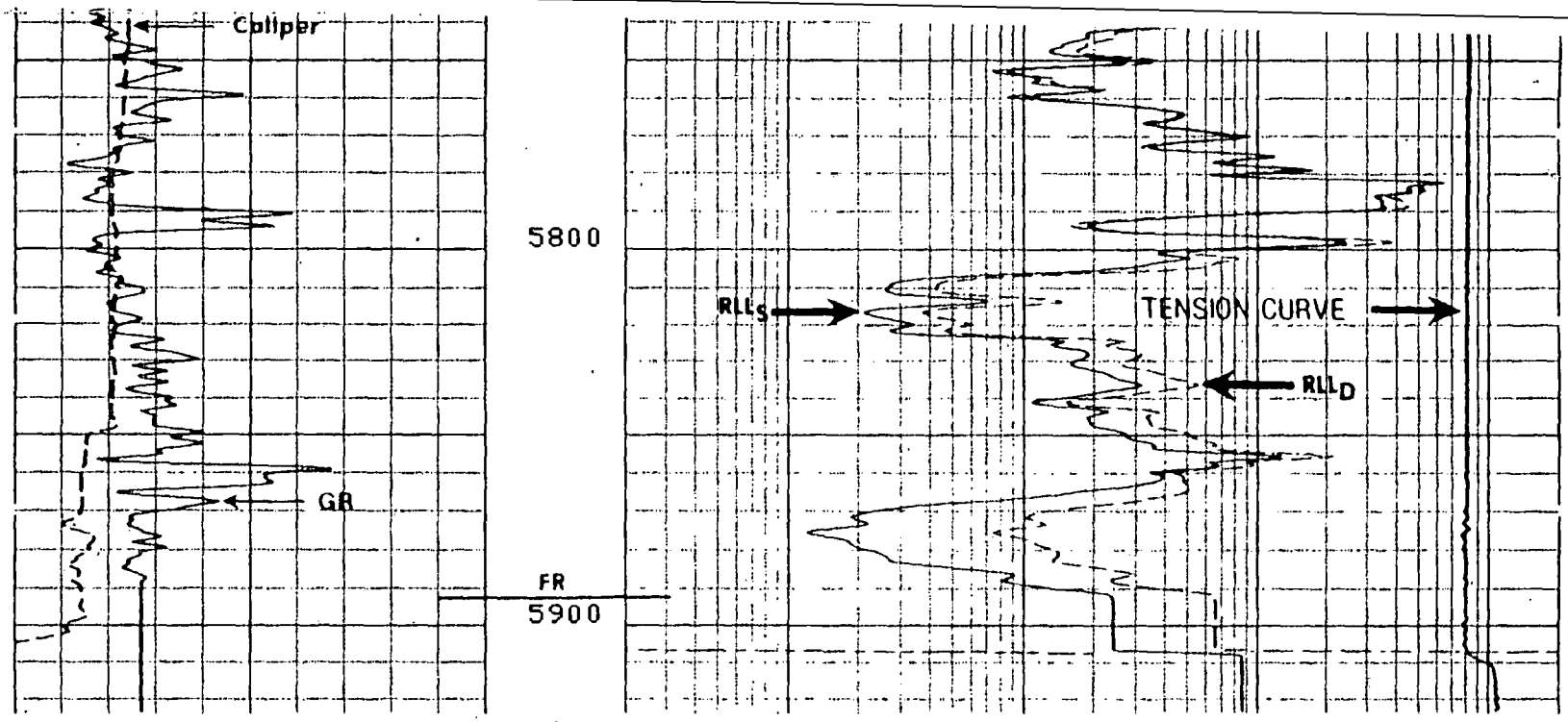
MAR02-0903



MAR02-0904


5500
5600
5700
5800
IHV 100 cu. ft
Caliper
RLLD BACKUP
RLLS
TENSION CURVE
RLLD

MAR02-0905



FILE

14

GR (GAPI)		LLD (OHMM)	TENS(LB)
0.0	100.0	2000. 200000	10000. 0.0
CALI(IN)		LLS (OHMM)	
16.00	26.00	0.2000	2000.
CALI(IN)		LLD (OHMM)	
6.000	16.00	0.2000	2000.

PARAMETERS

MAR02-0906

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
FPHI		PHIX	SPT		STAN	BS	INCH	7.875
DO		0.0	BHS		OPEN			

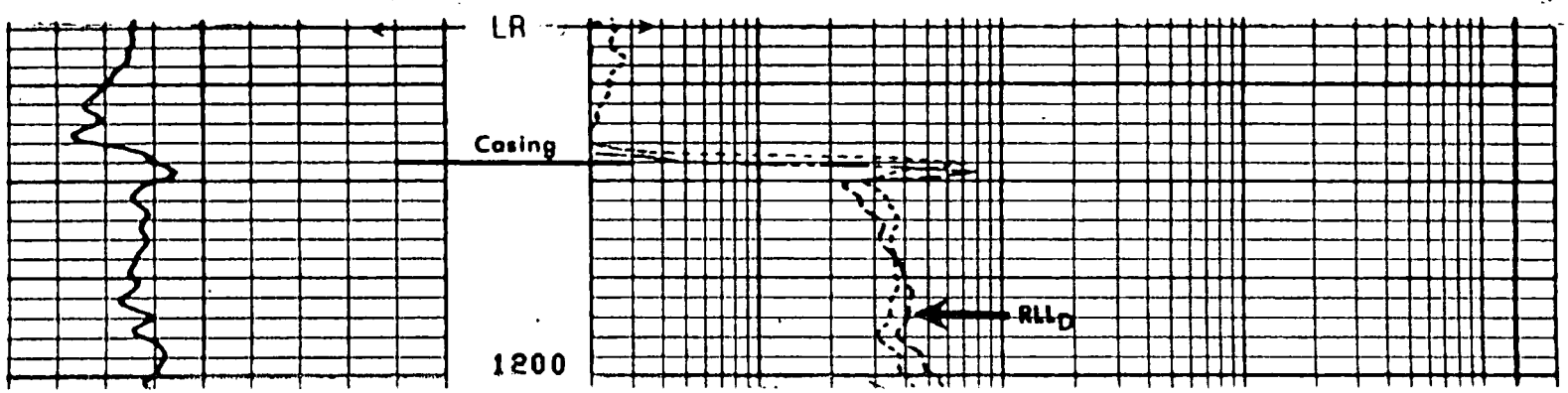
PARAMETERS

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
FPHI		PHIX	SPT		STAN	BS	INCH	7.875
DO		0.0	BHS		OPEN			

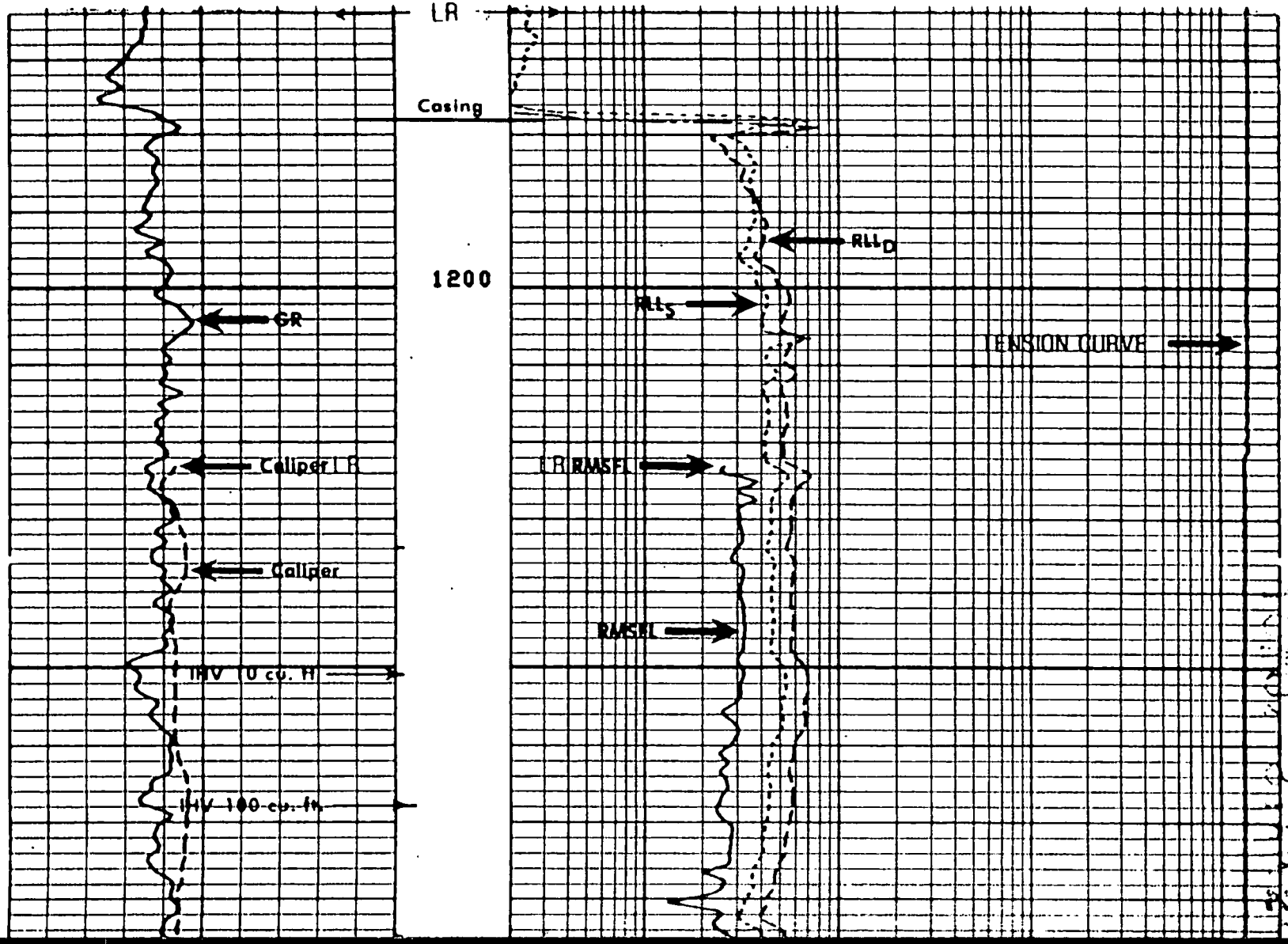
GR (GAPI)		LLD (OHMM)	TENS(LB)
.0 200.0		2000. 200000	10000. 0.0
CALI(IN)		LLD (OHMM)	
5.00 26.00		0.2000 2000.	
CALI(IN)		LLS (OHMM)	
.000 16.00		0.2000 2000.	
		RXO (OHMM)	
		0.2000 2000.	

FILE

14

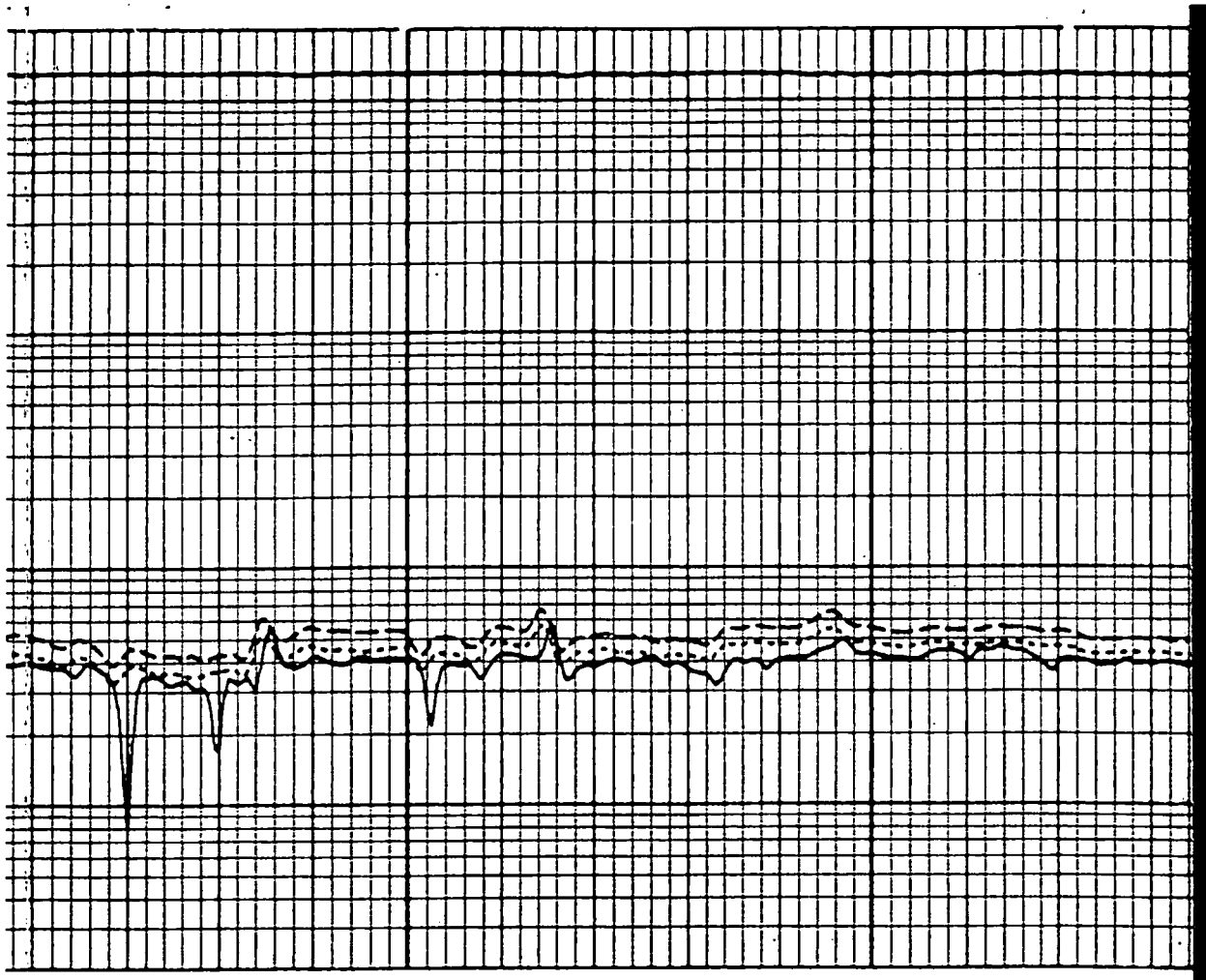


MAR02-0907

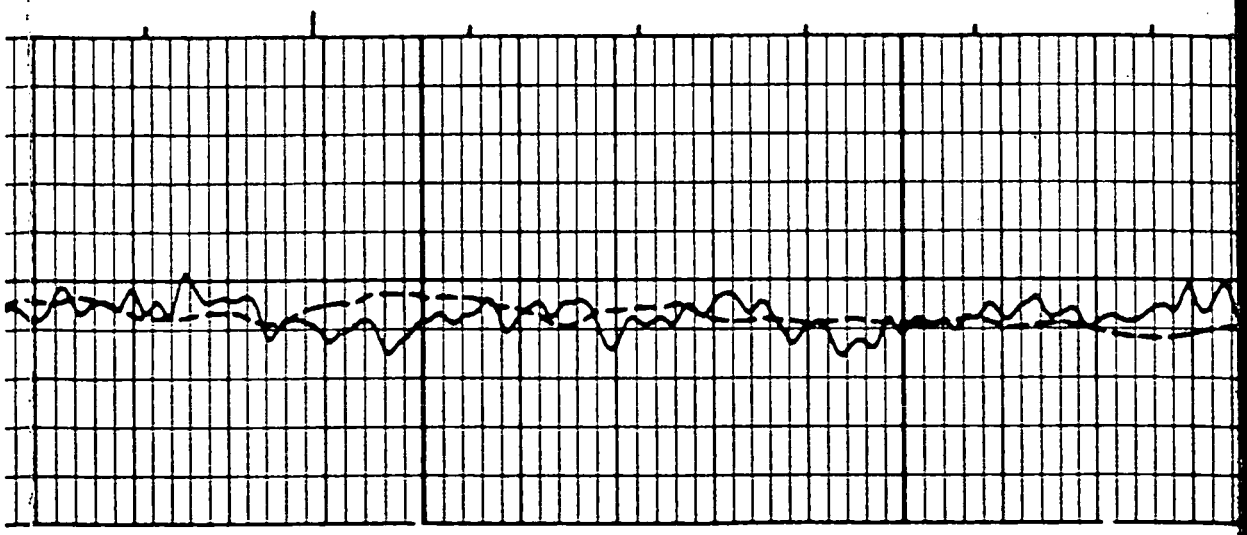

LR
Casing
1200
GR
Caliper LR
Caliper
IHV 10 cu. ft
IHV 100 cu. ft
RLLD
RLLS
TENSION CURVE
LR RMSFL
RMSFL

MAR02-0908

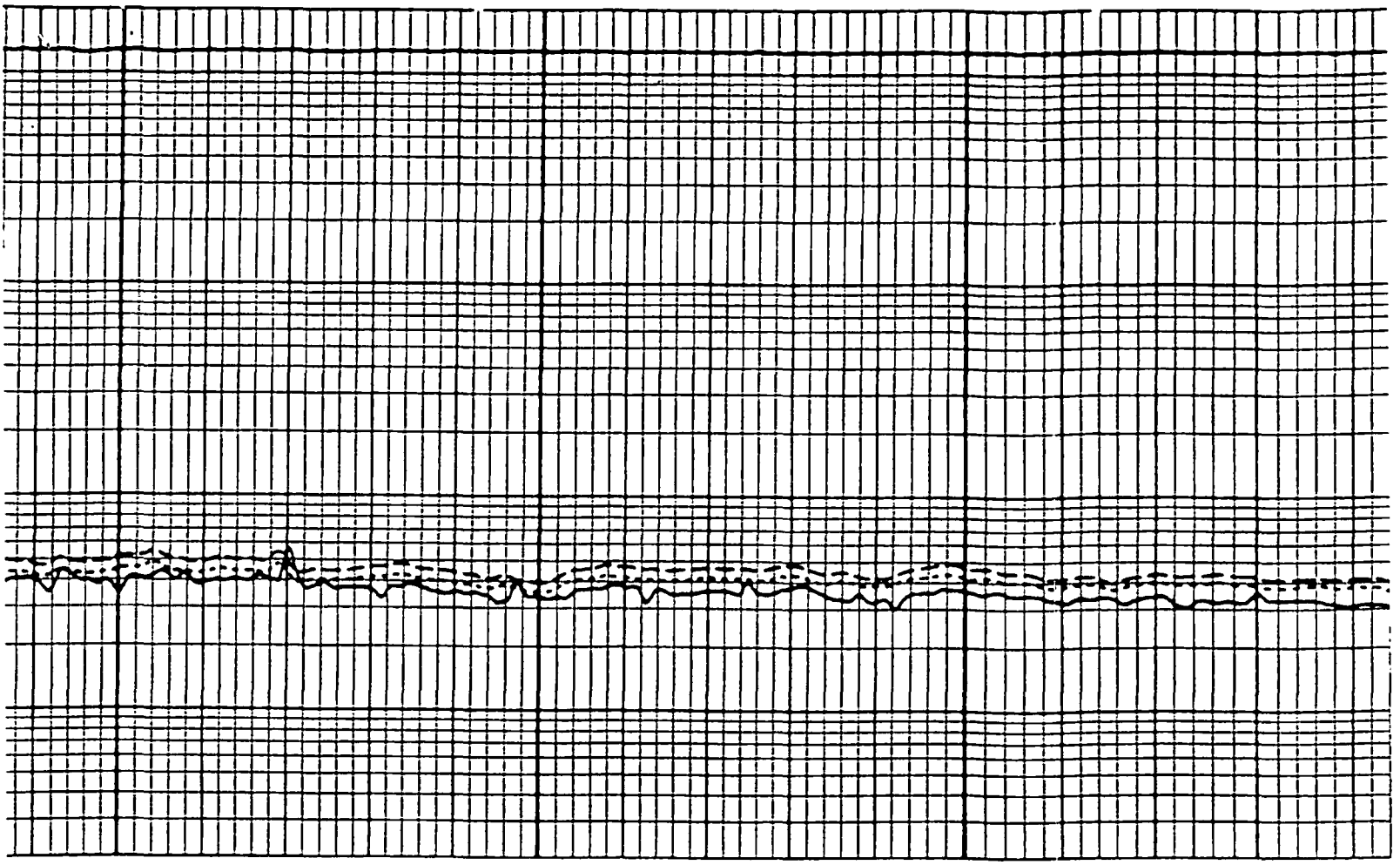
MAR02-0909



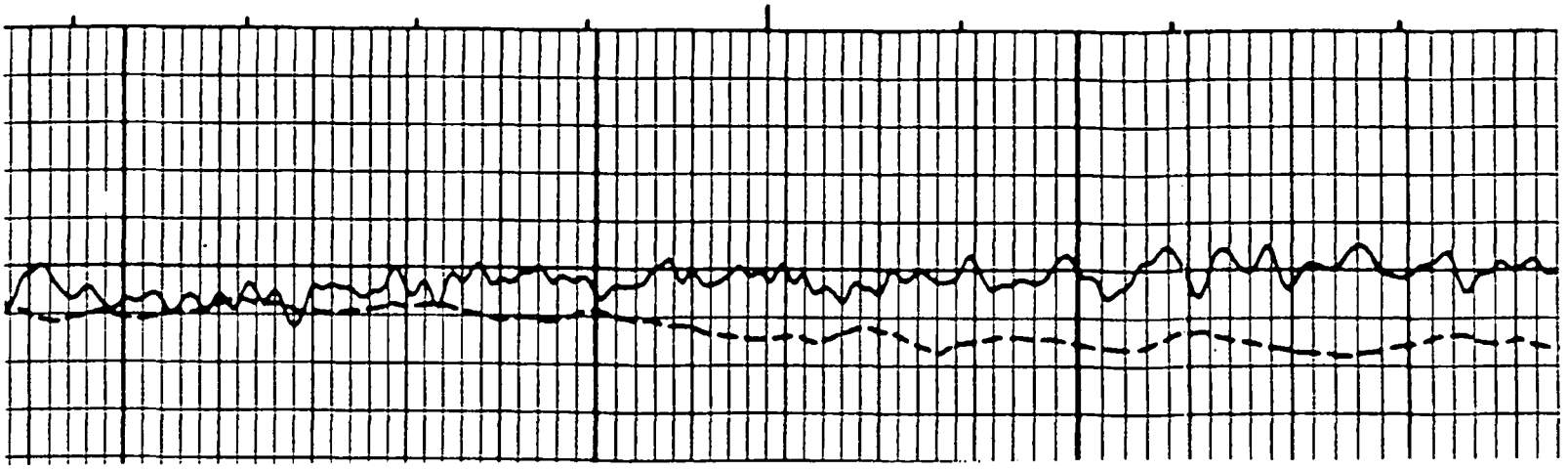
1500



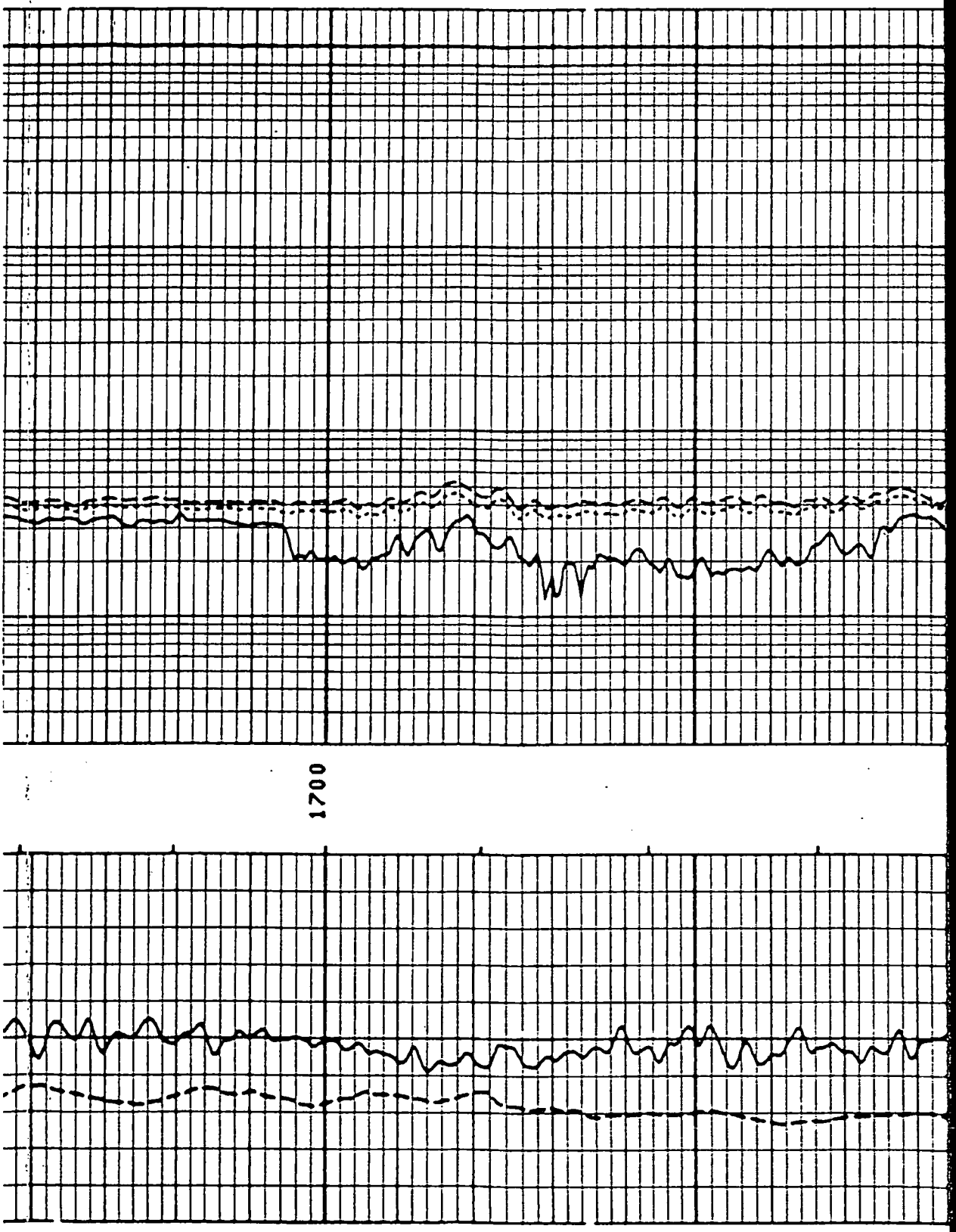
MAR02-0910



1600



MAR02-0911



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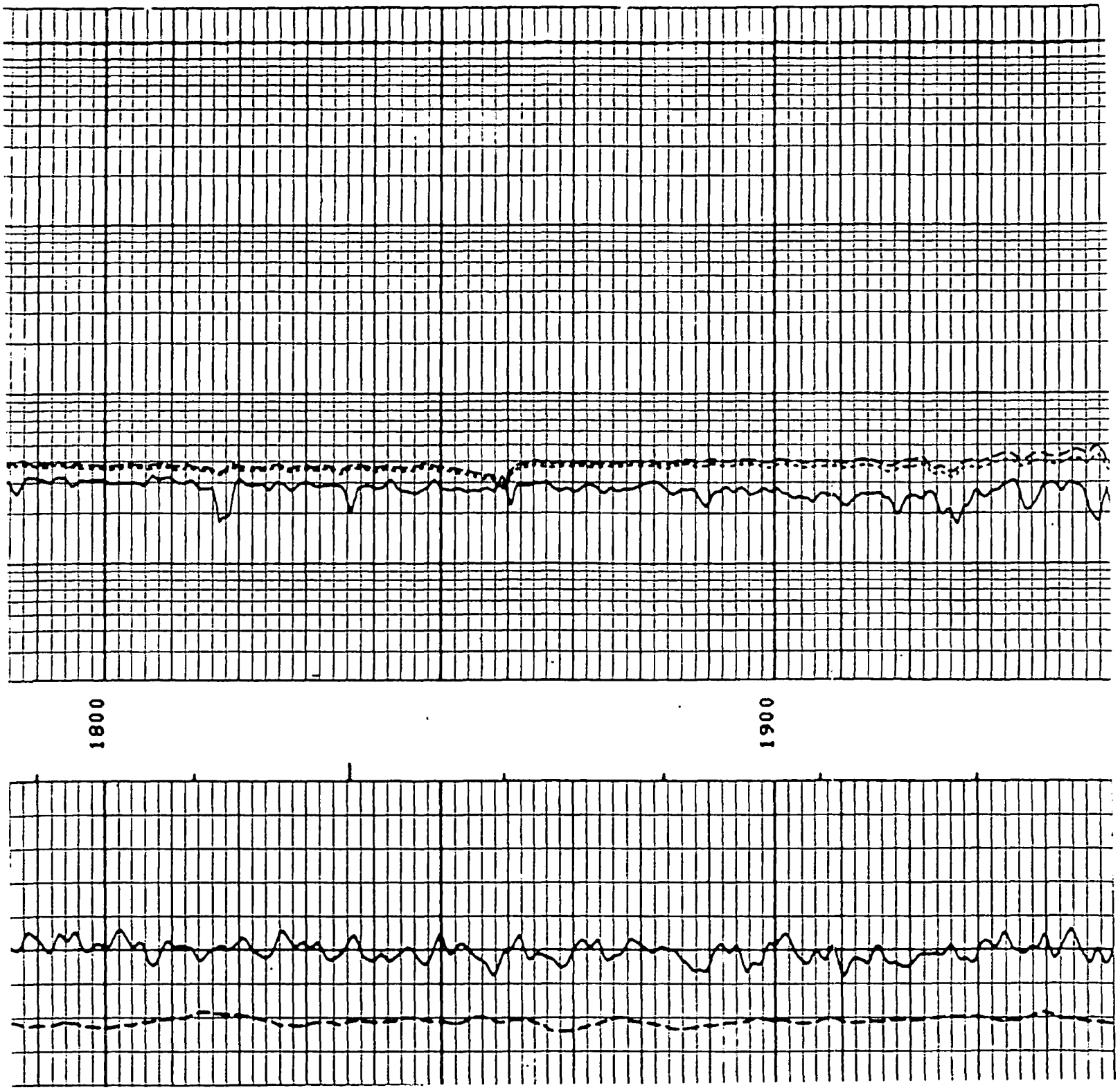

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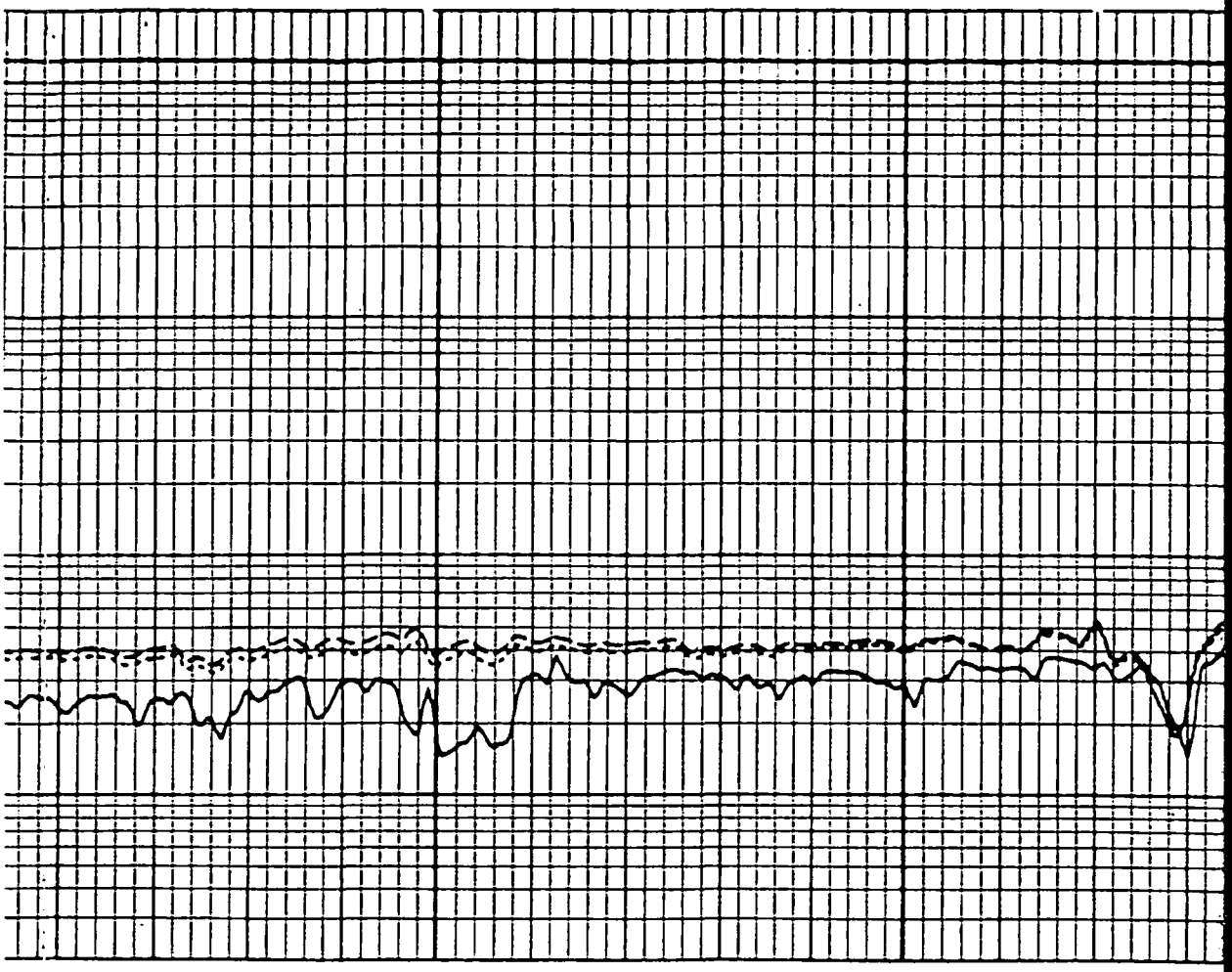

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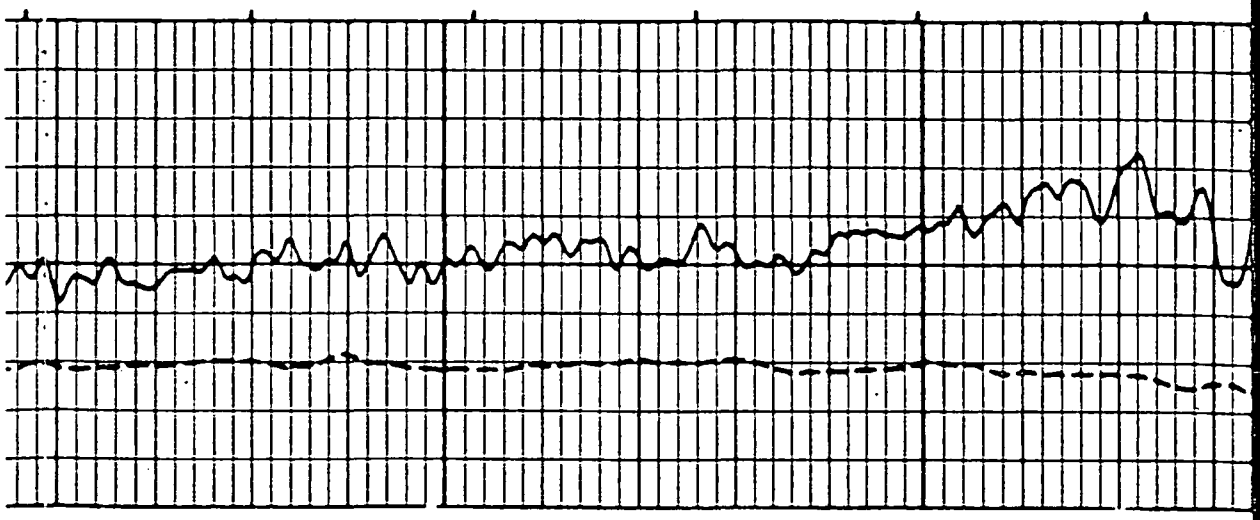
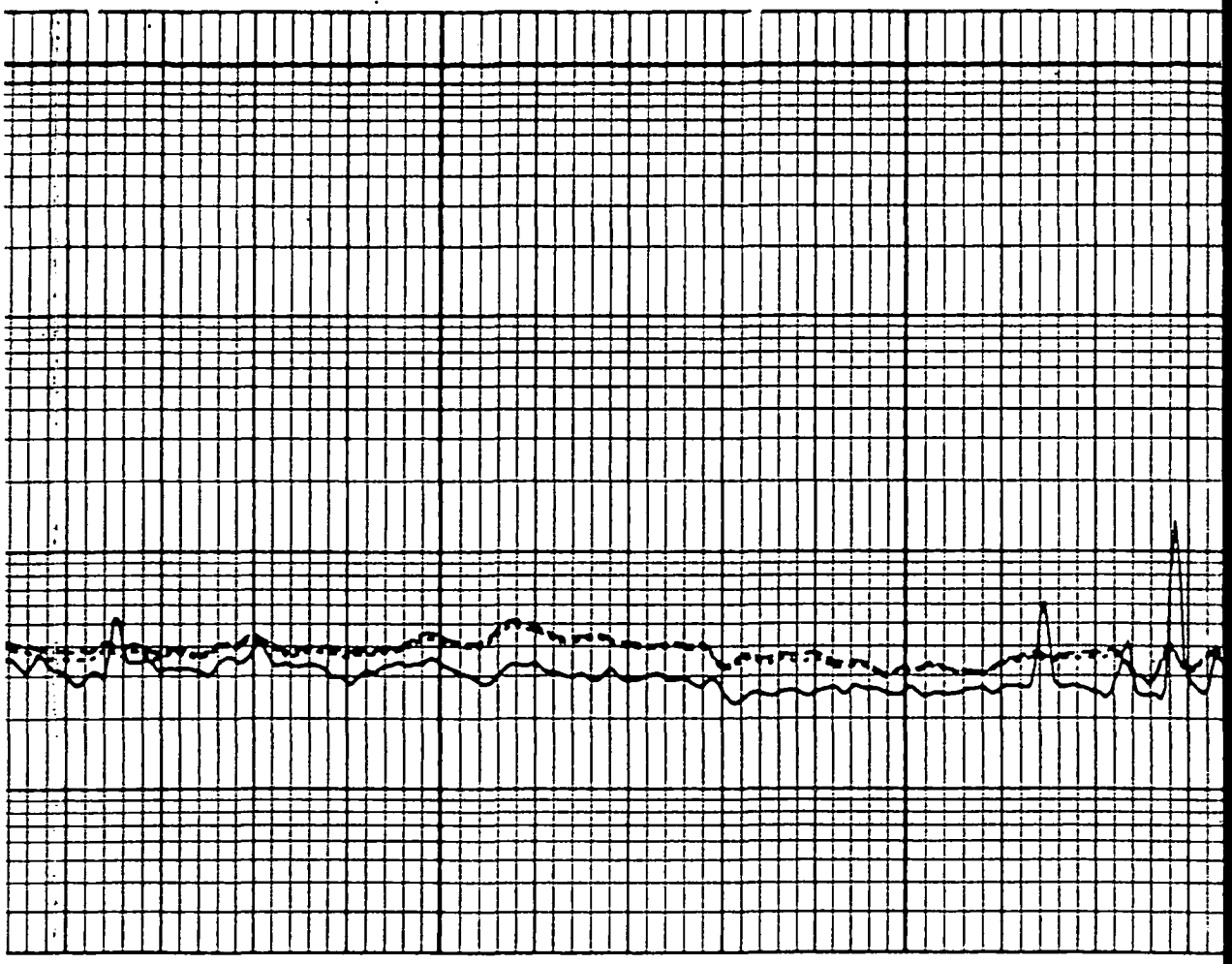


MAR02-0914

MAR02-0915



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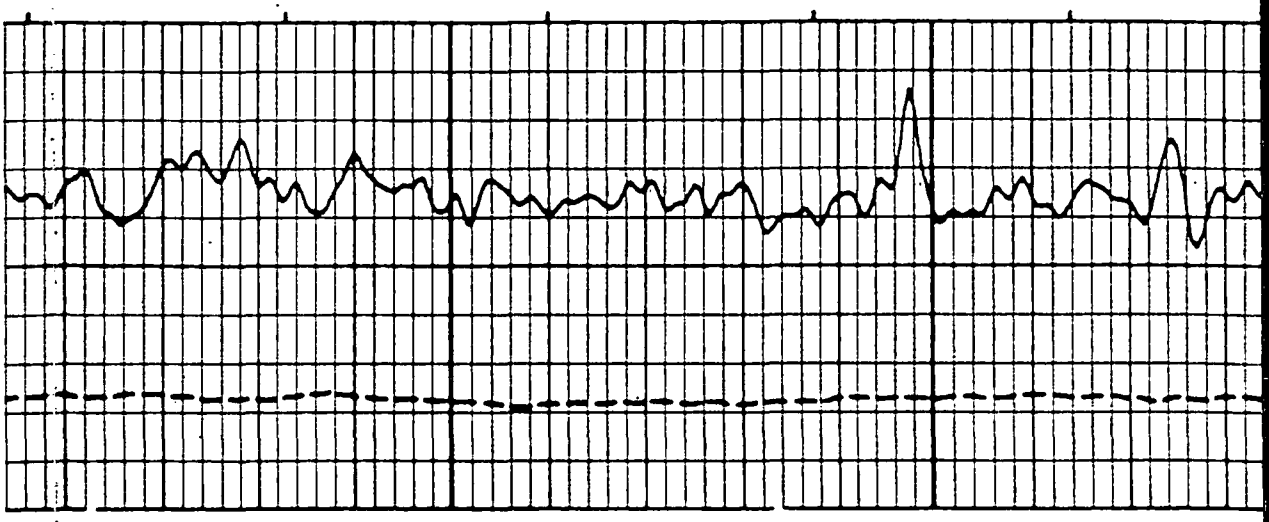

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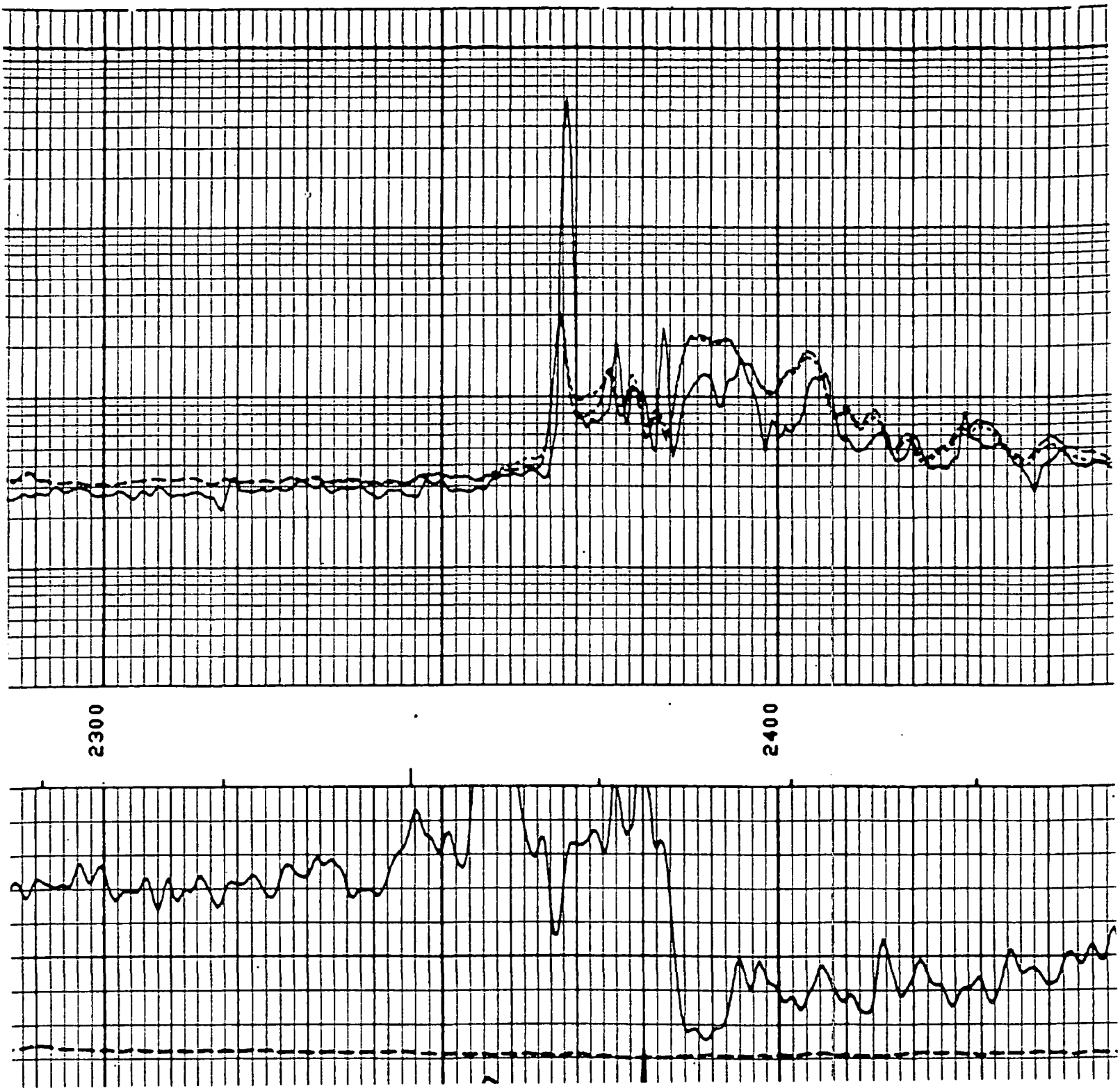

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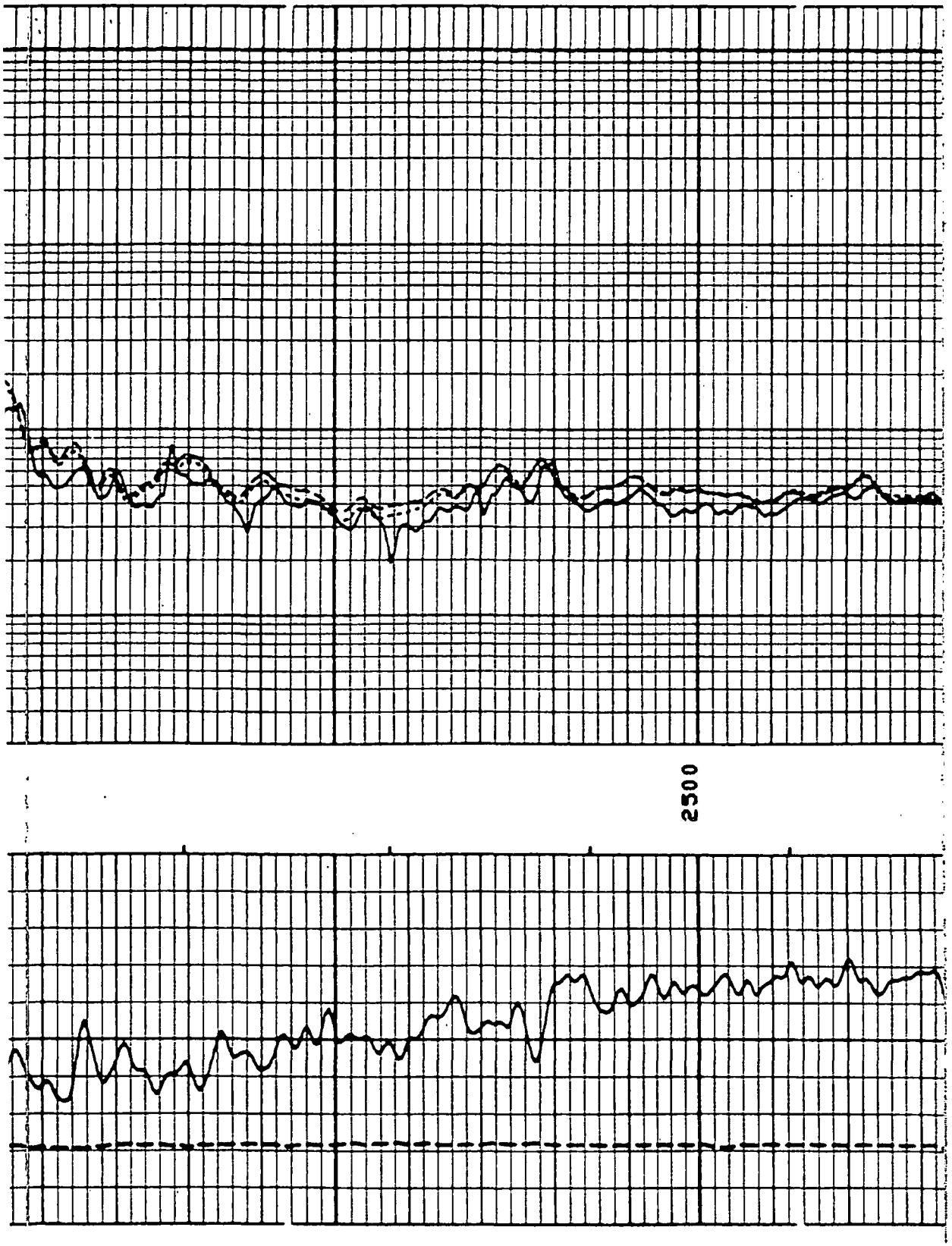

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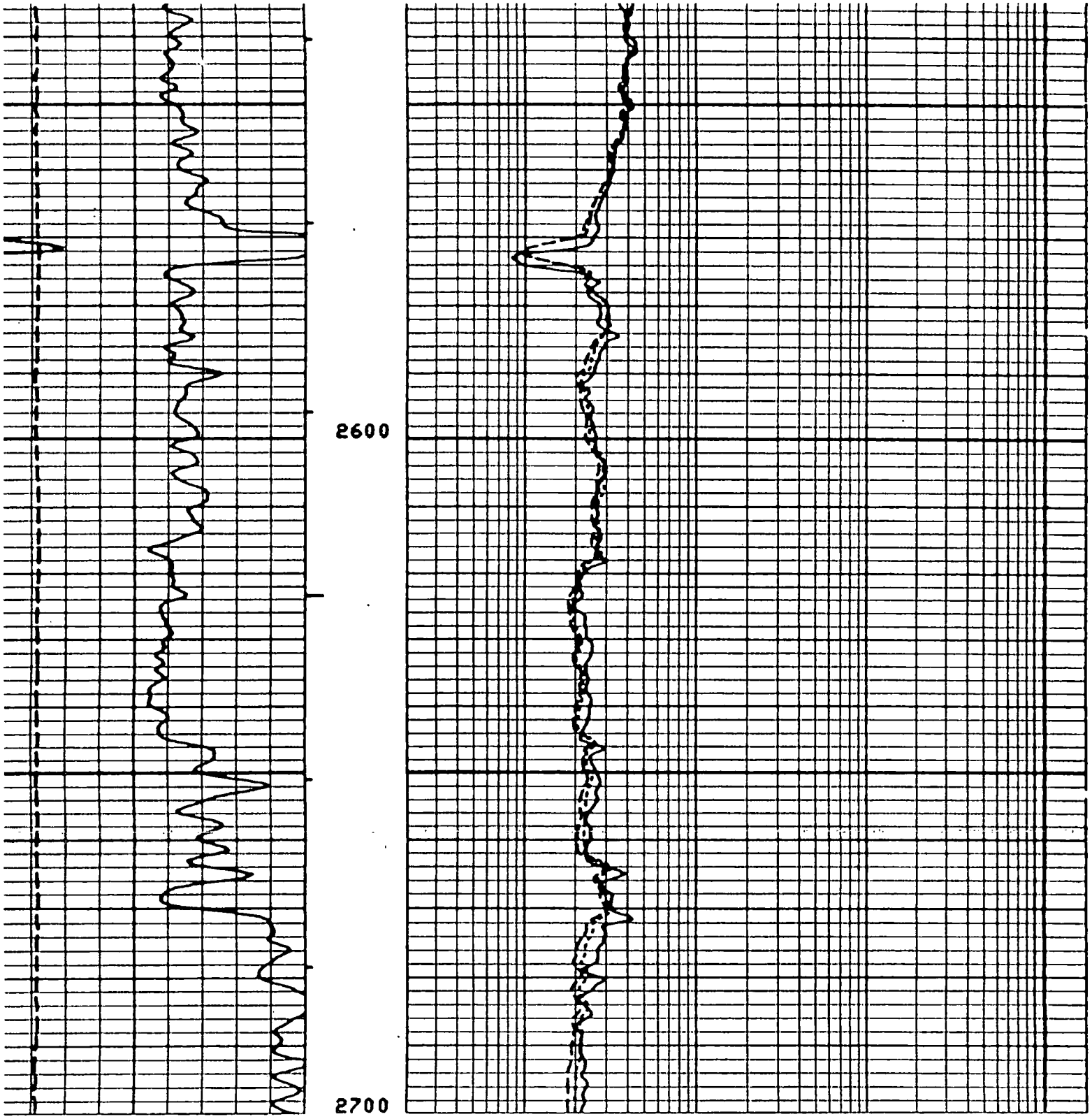

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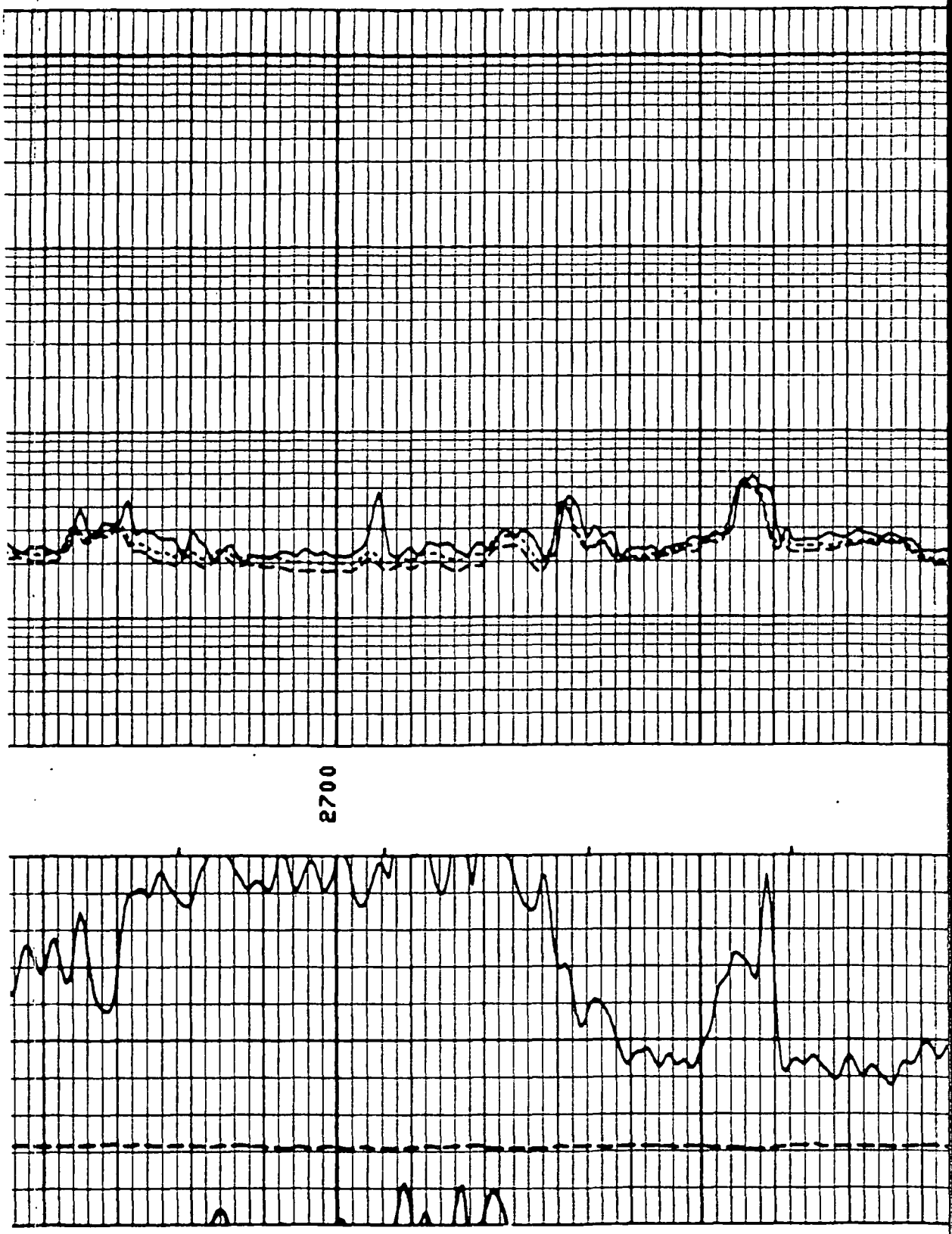
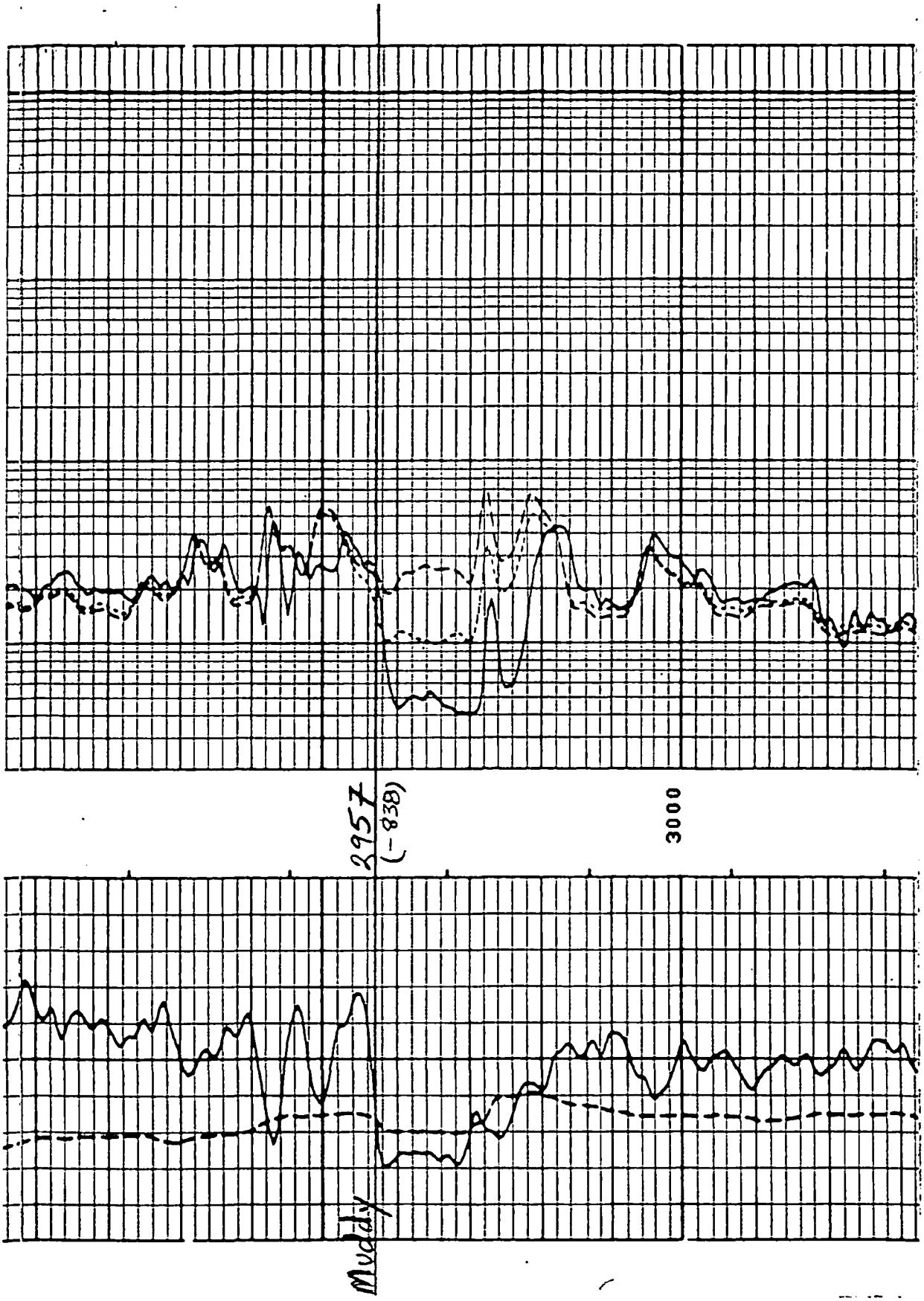


MAR02-0920

MAR02-0921



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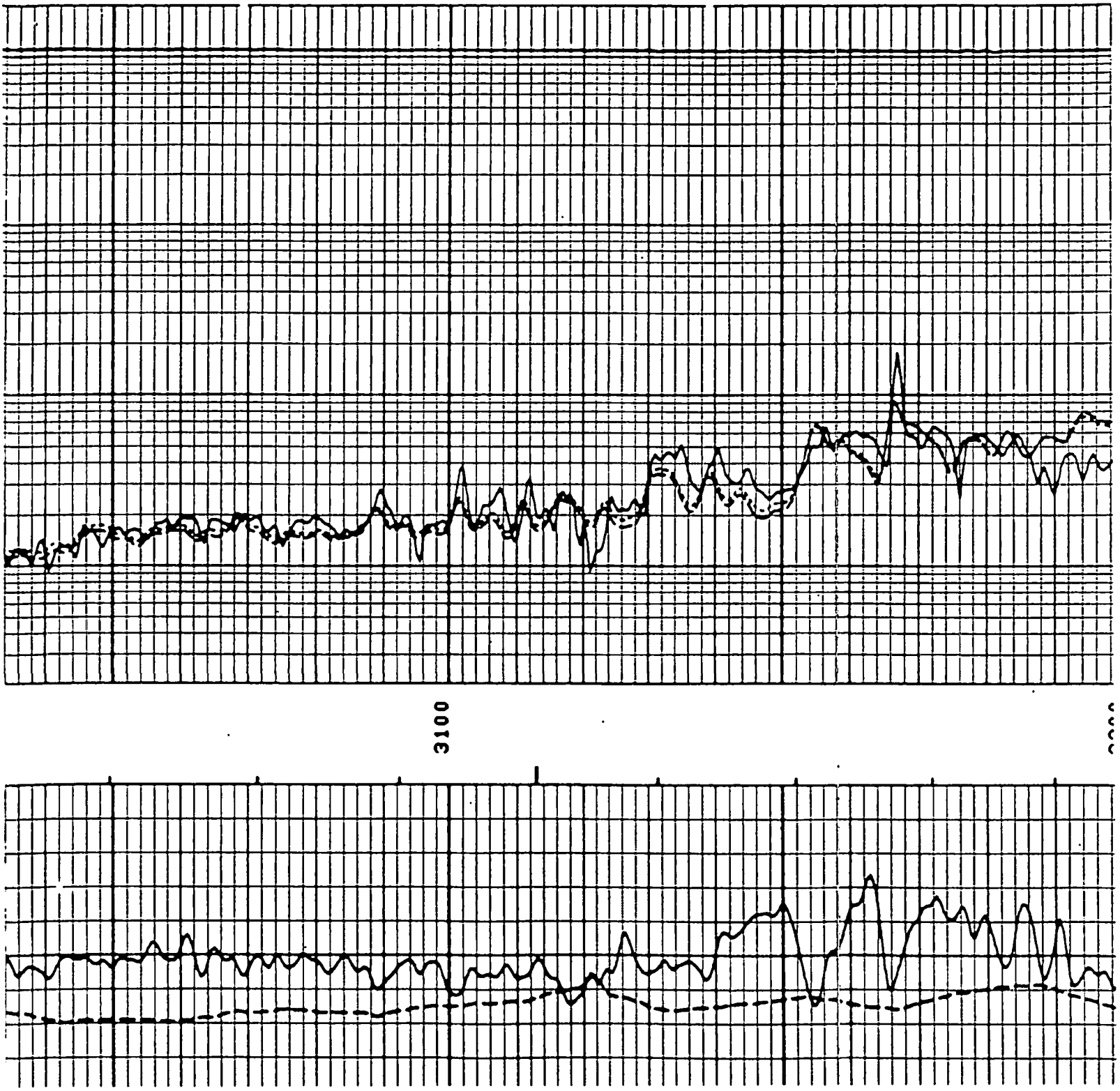

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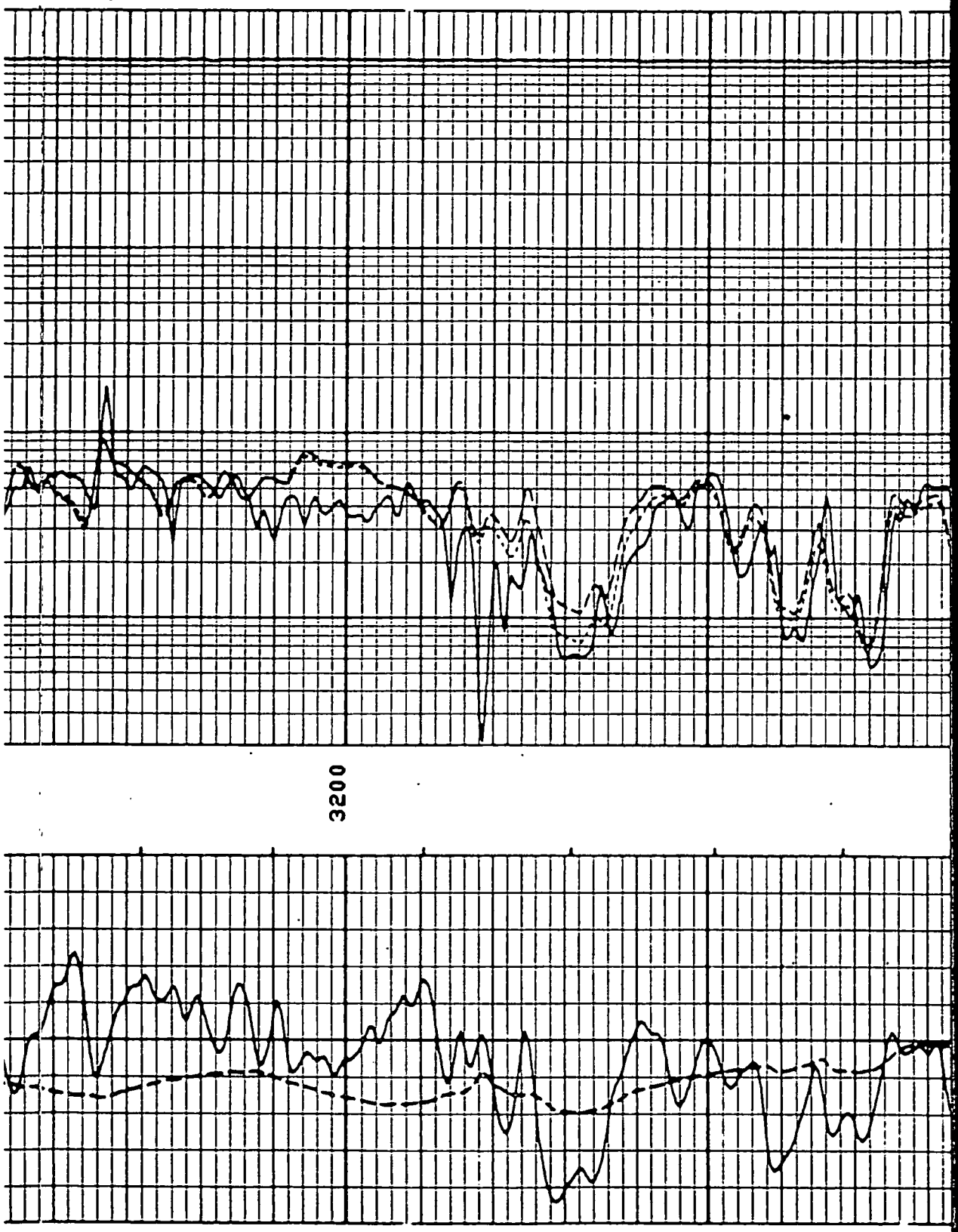

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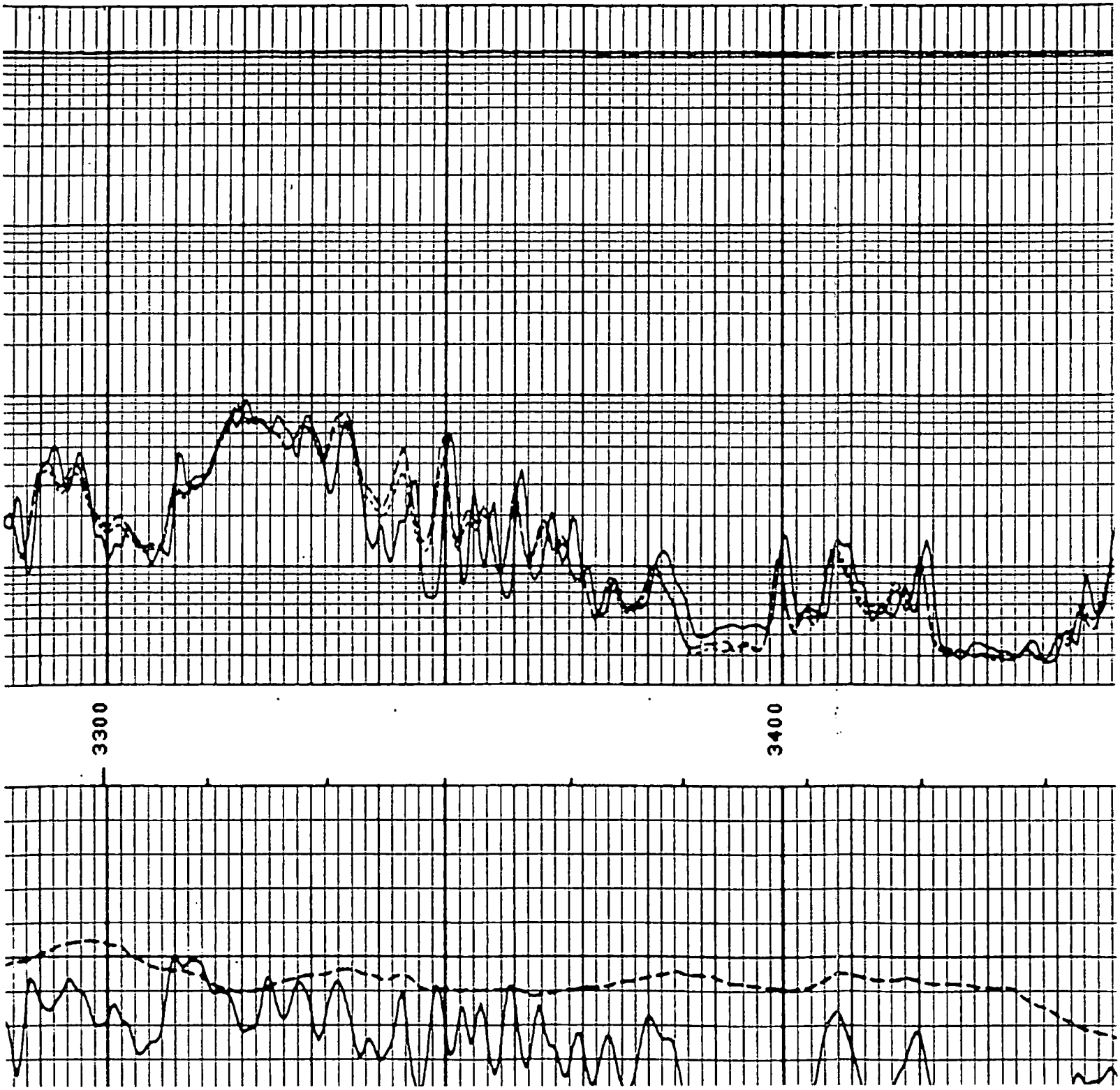

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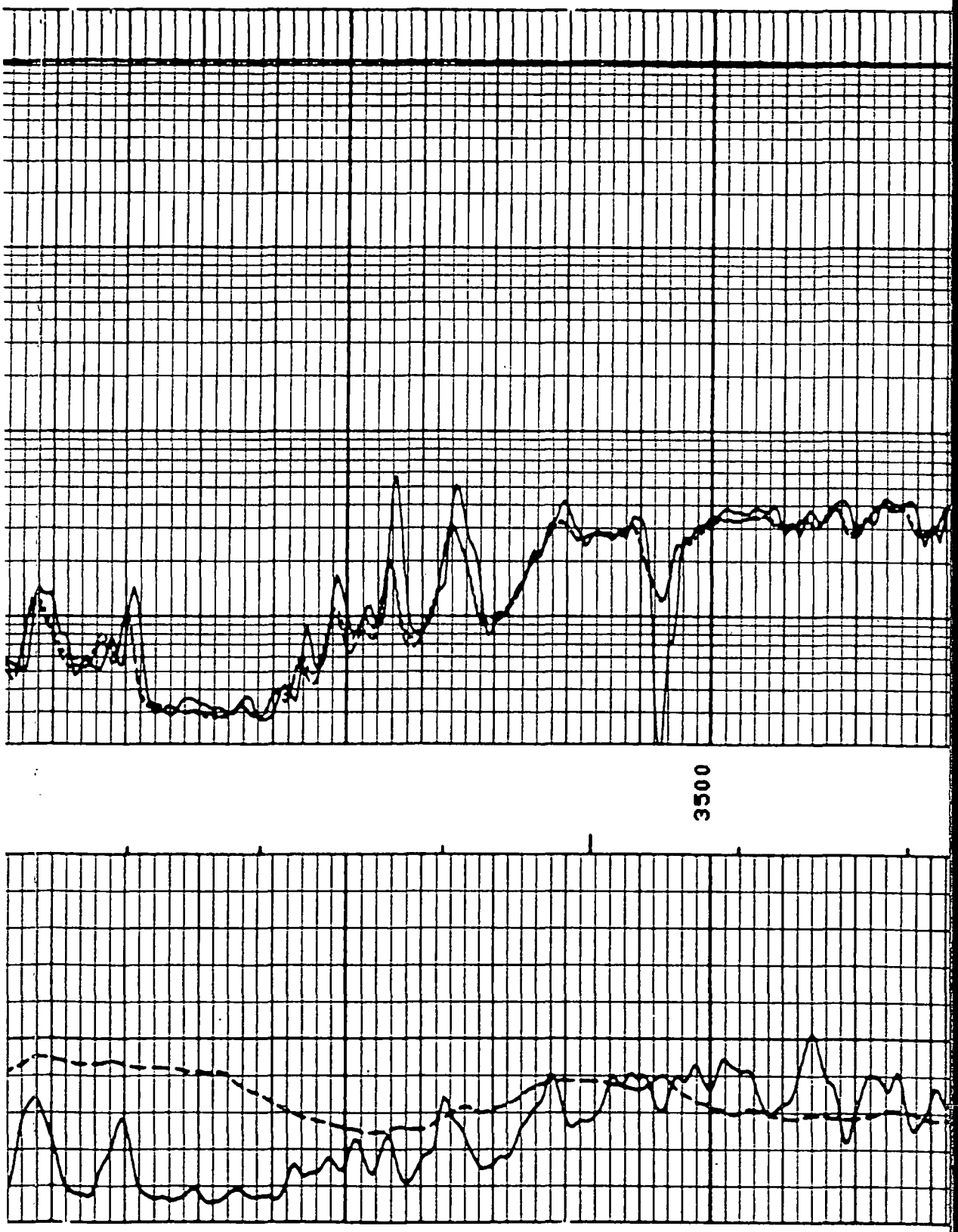

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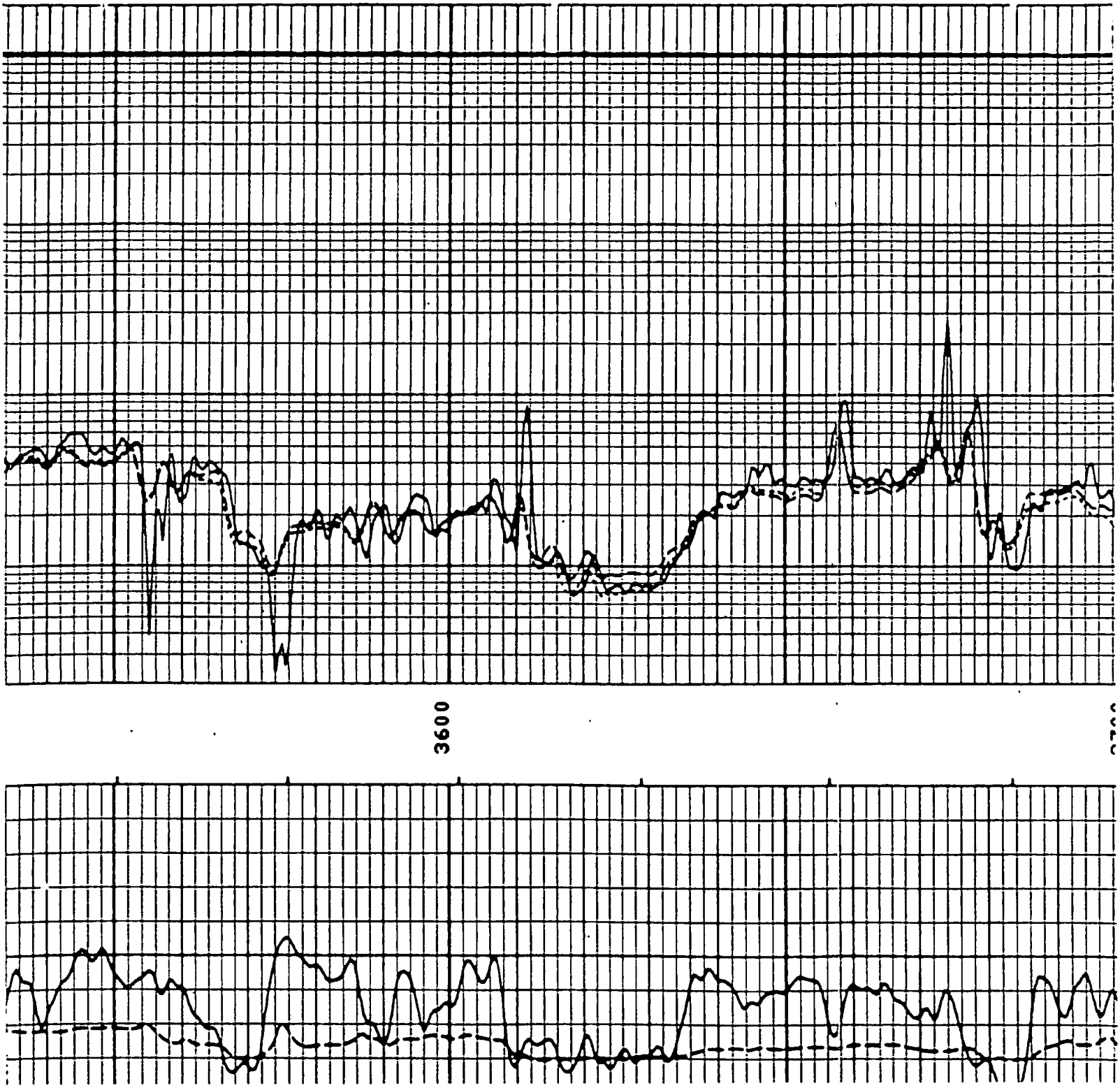

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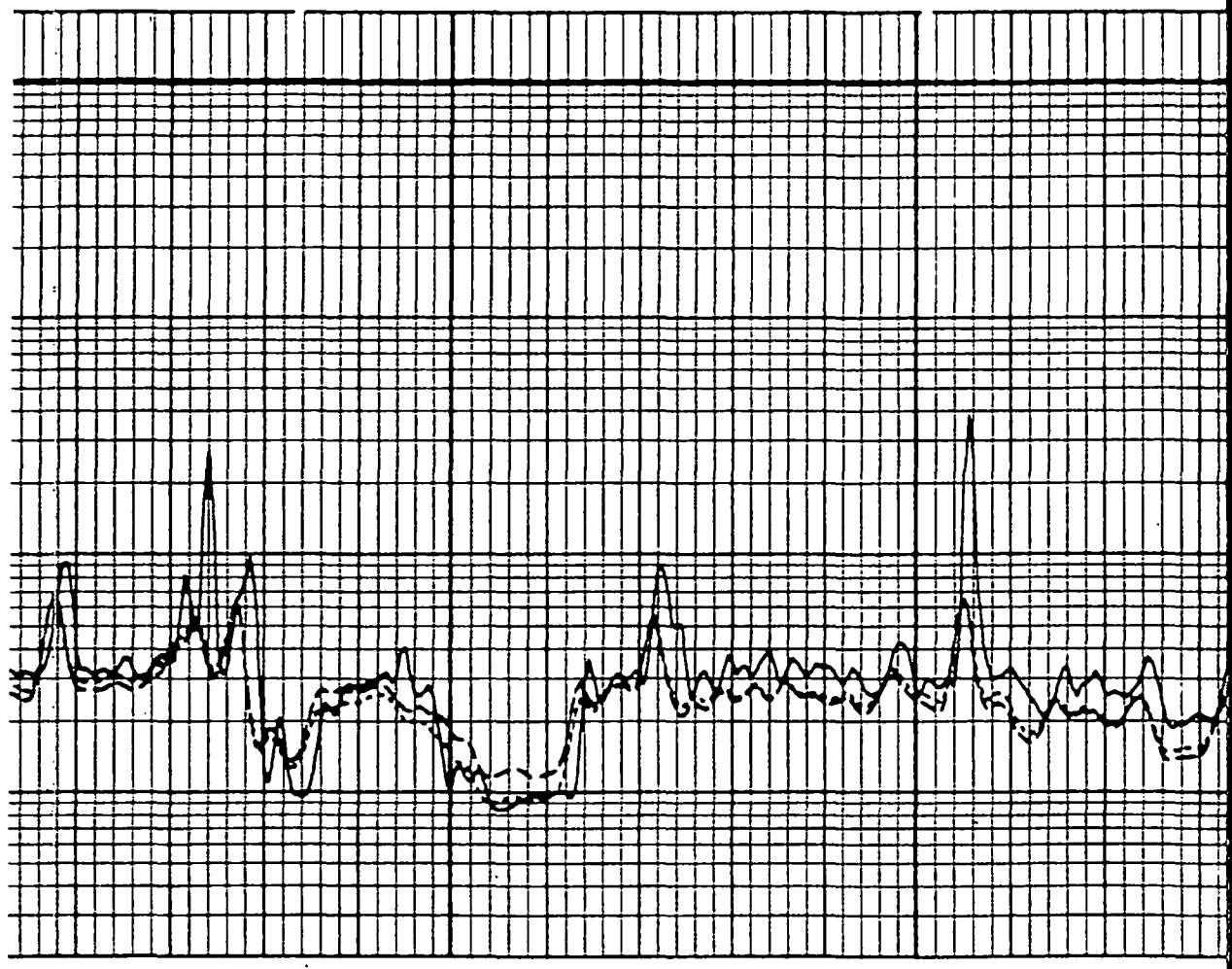

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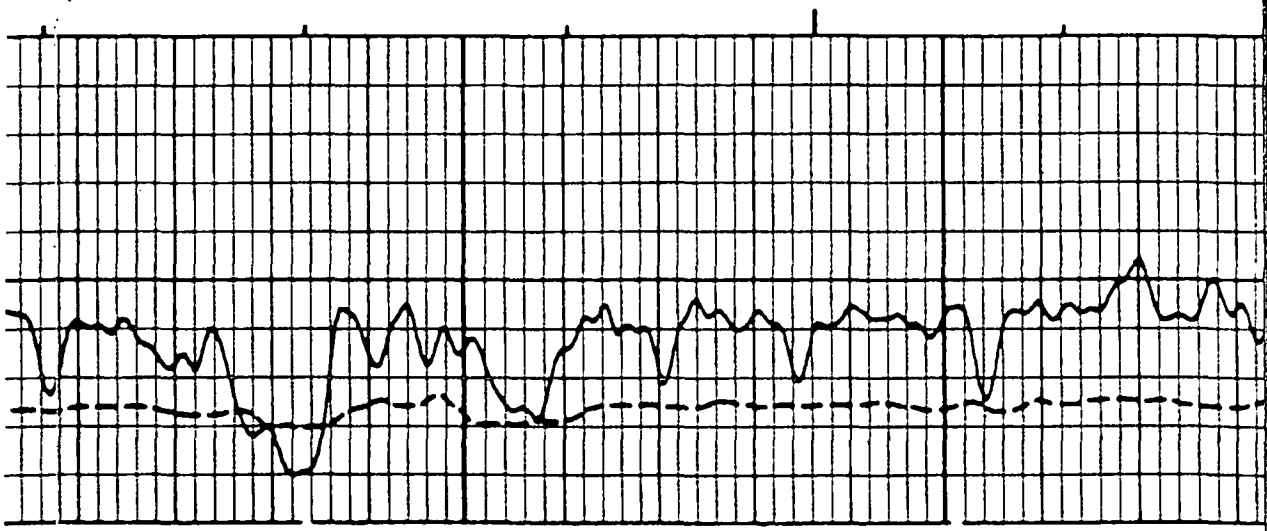

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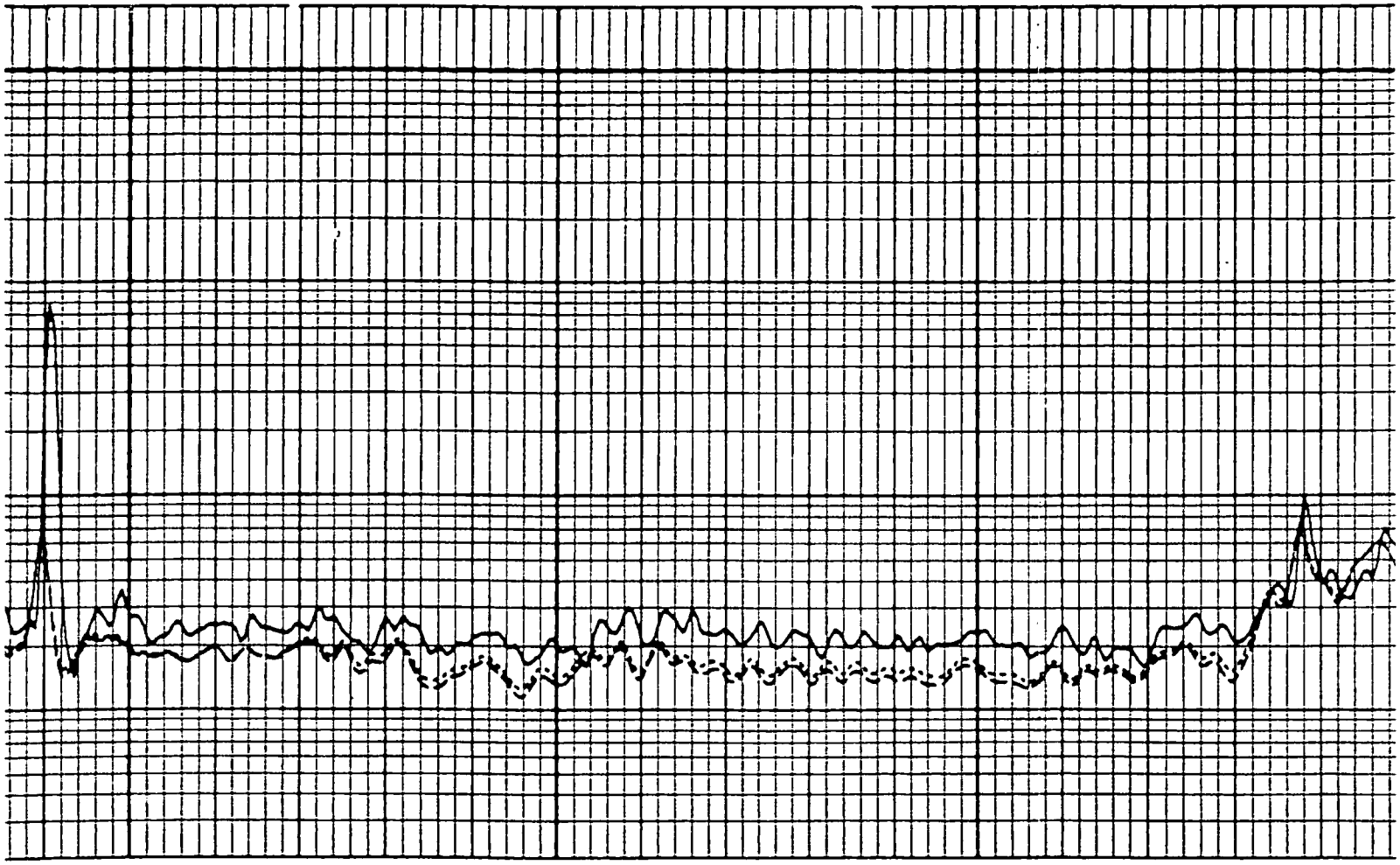

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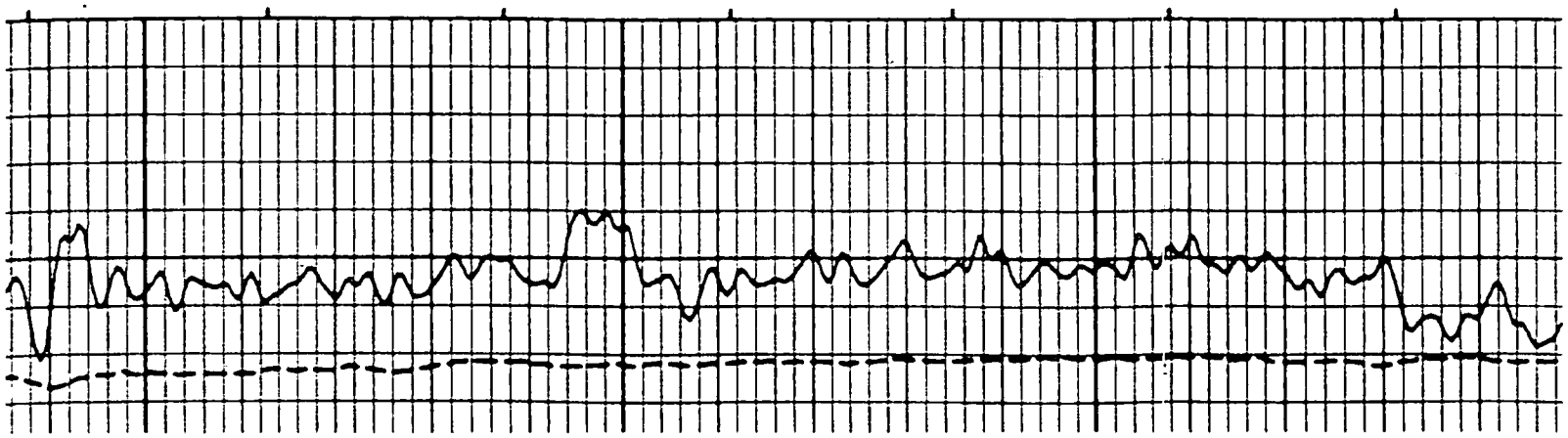

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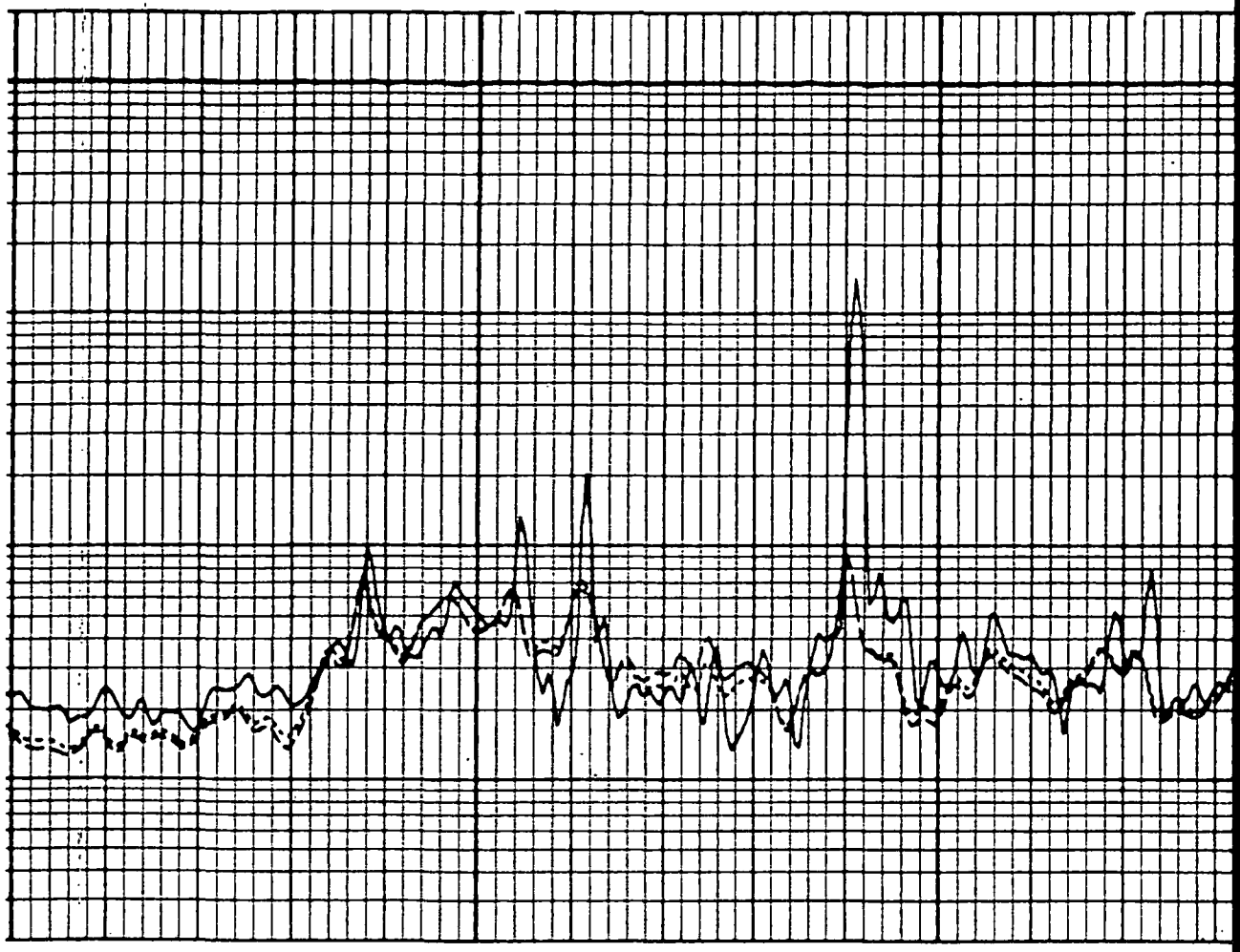

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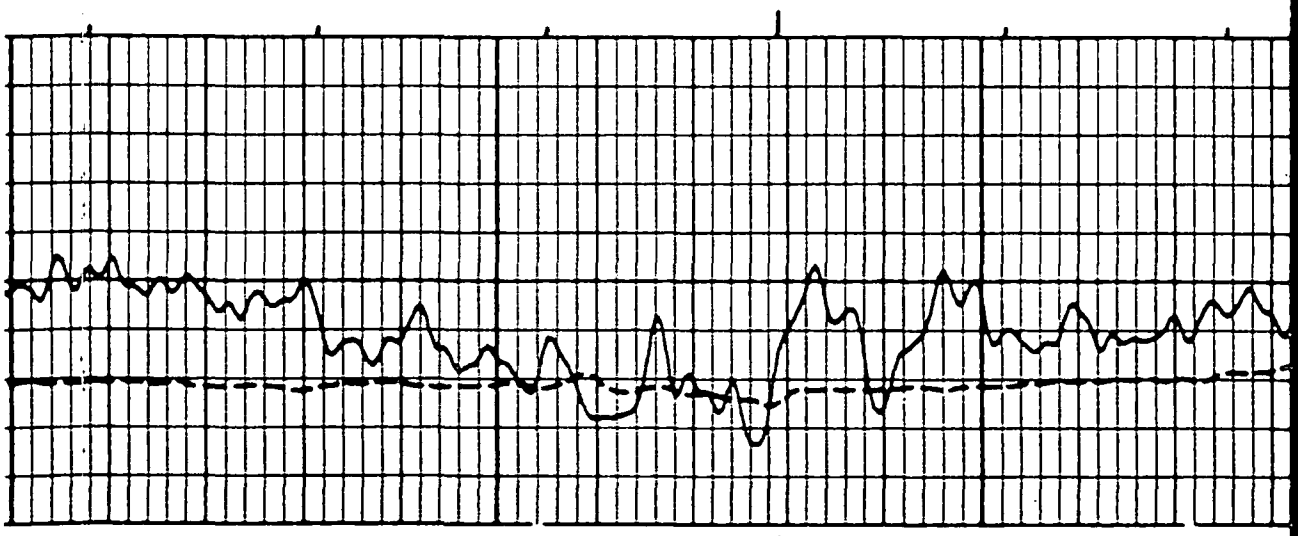

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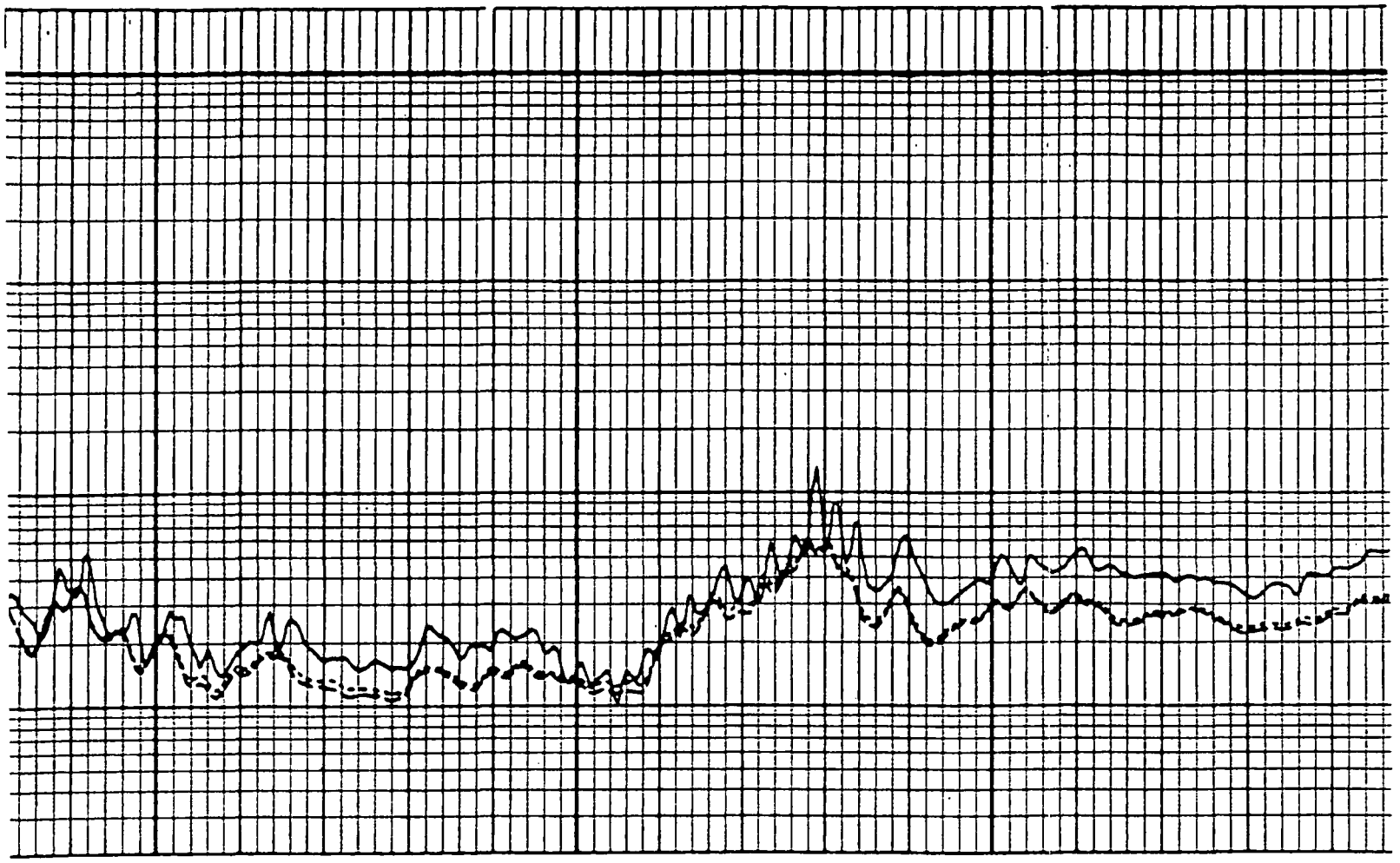

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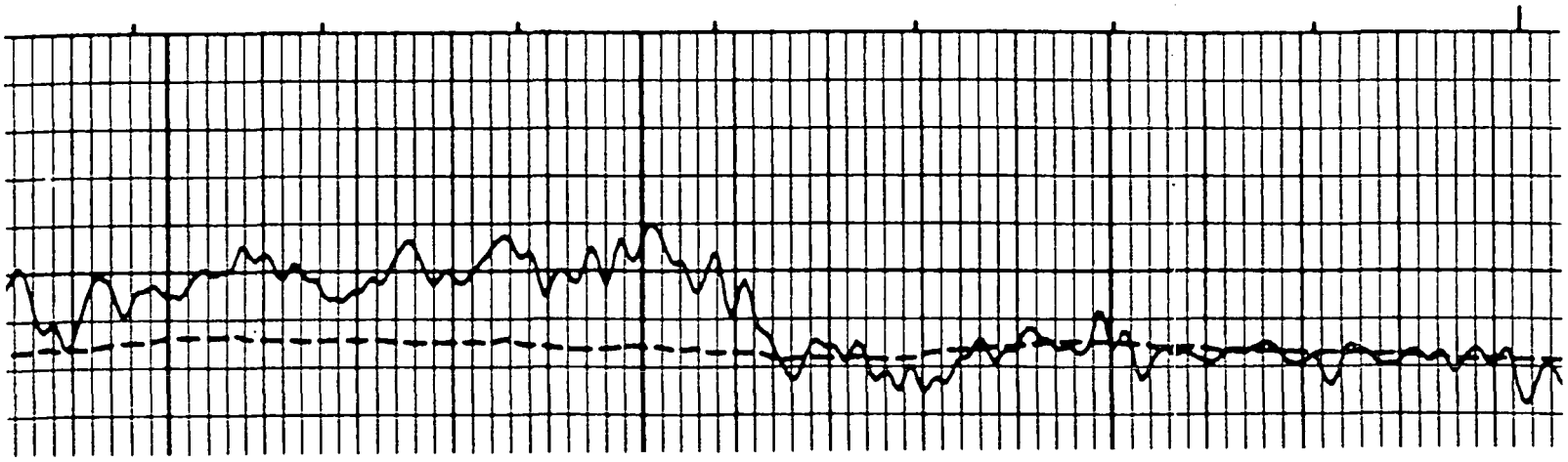

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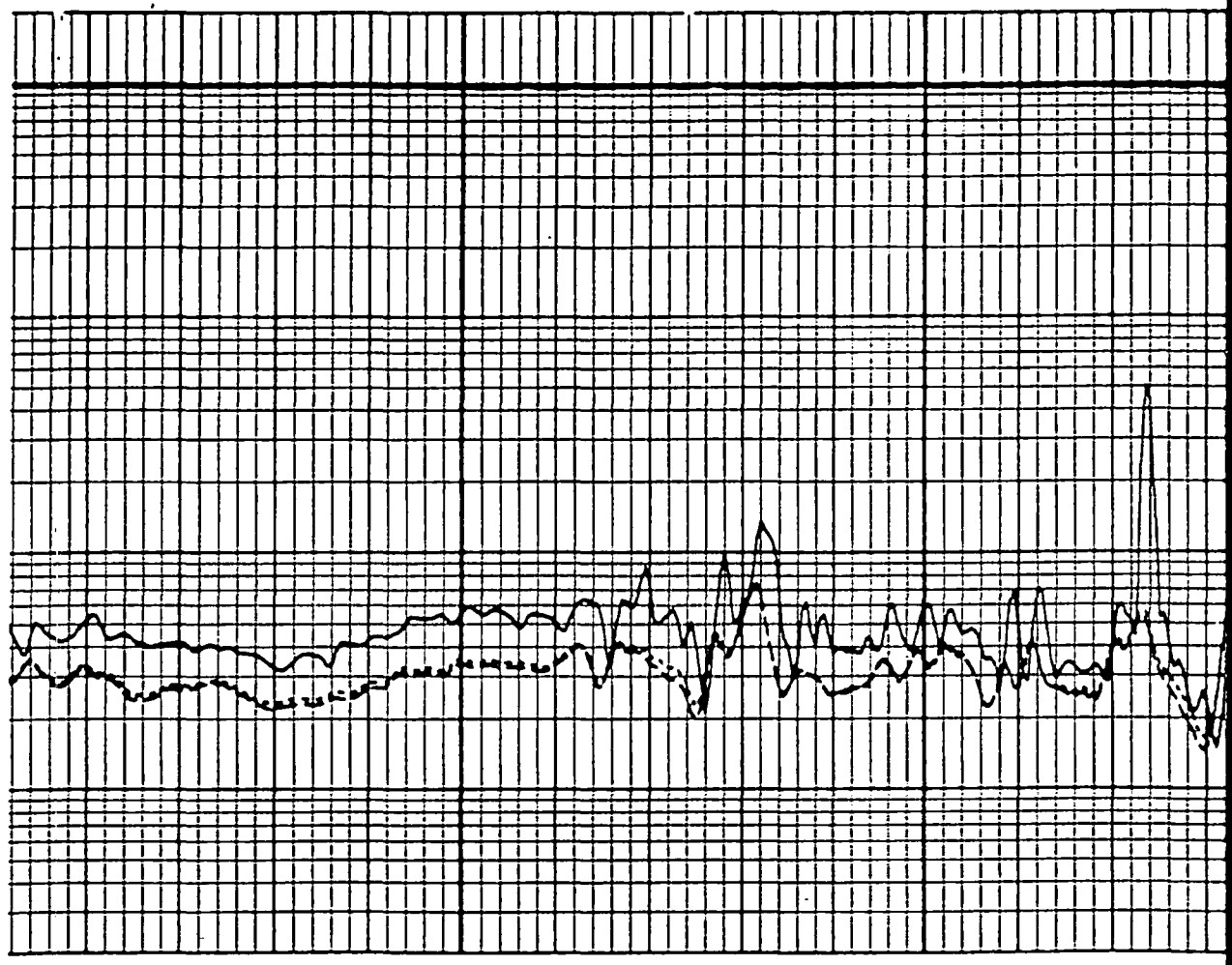

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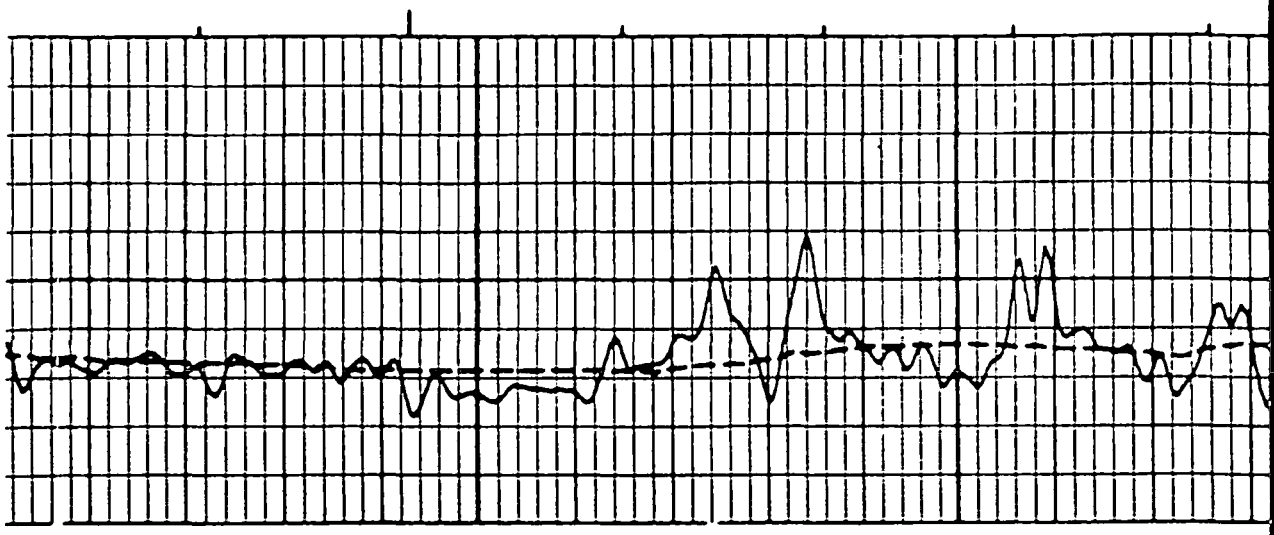

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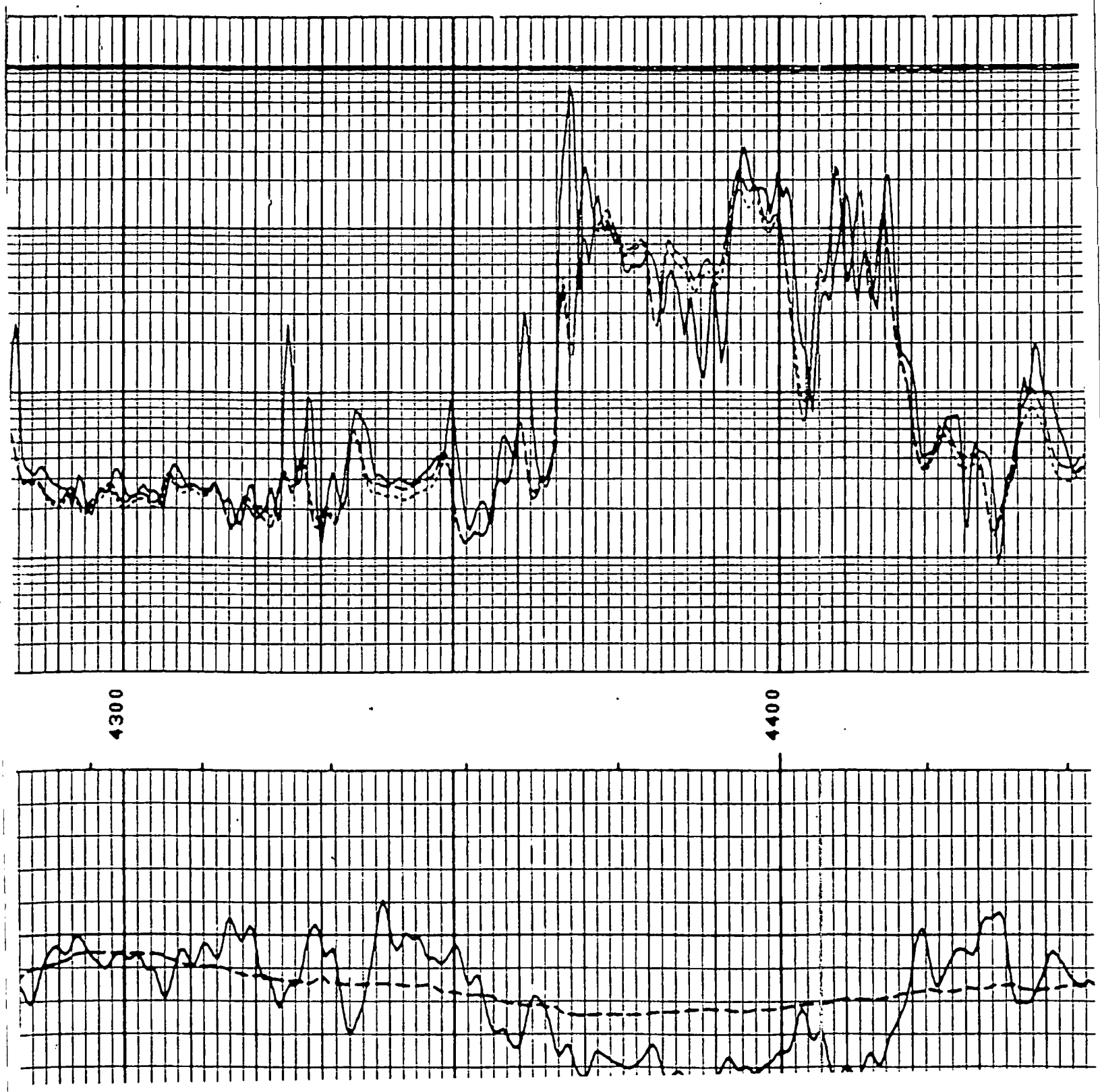

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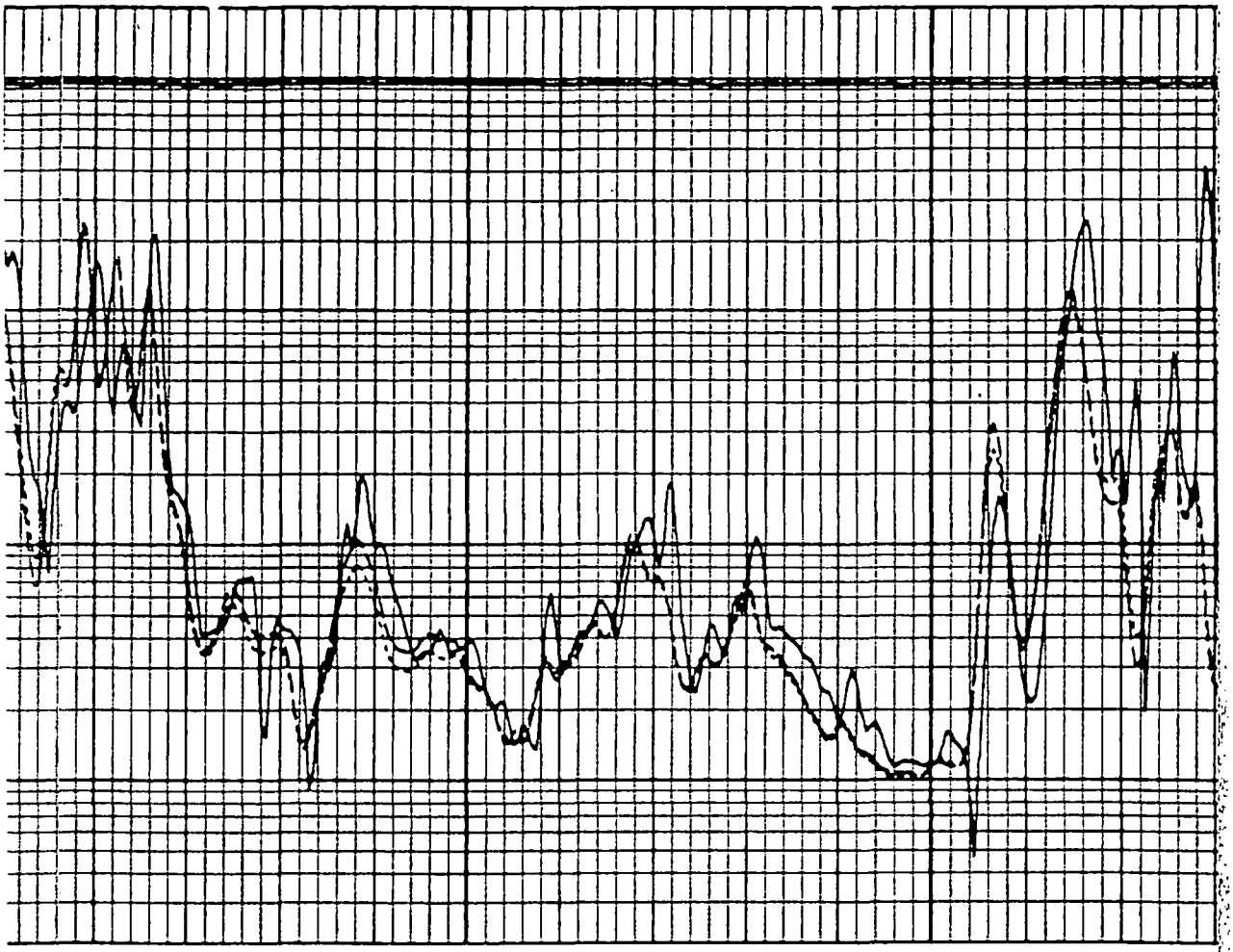

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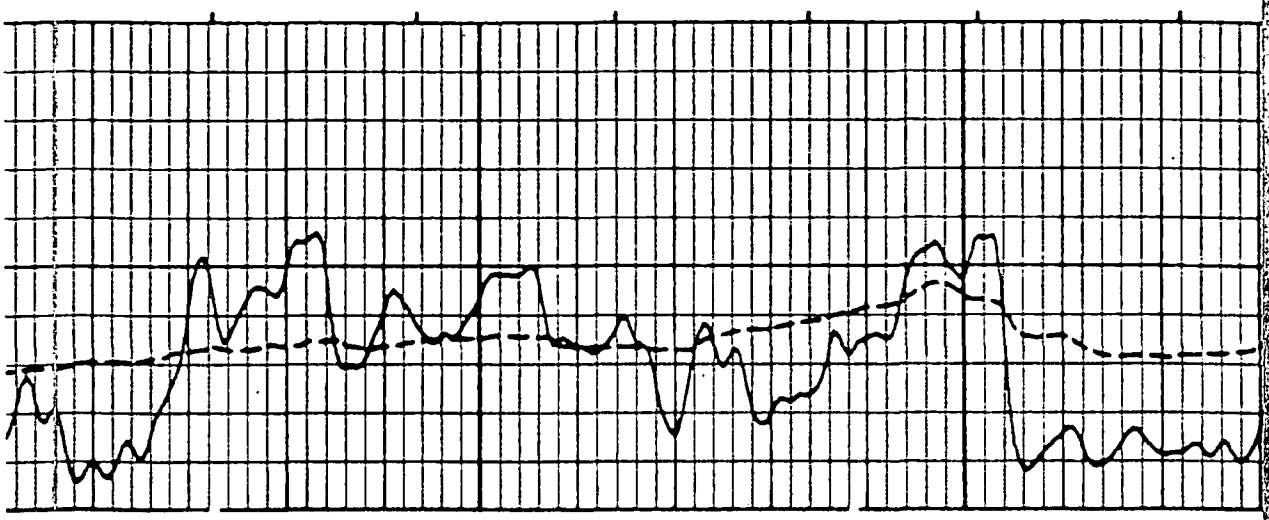

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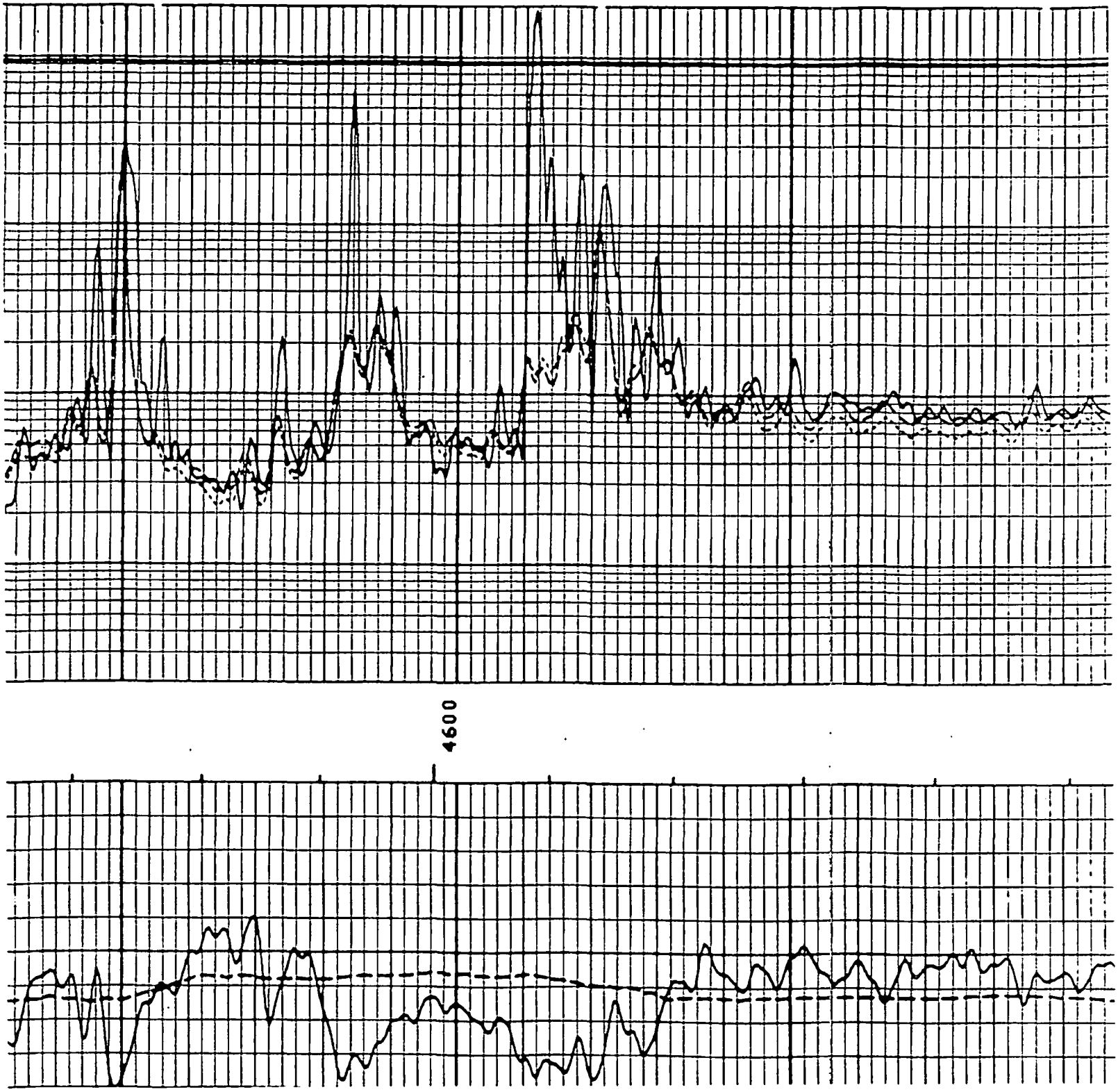

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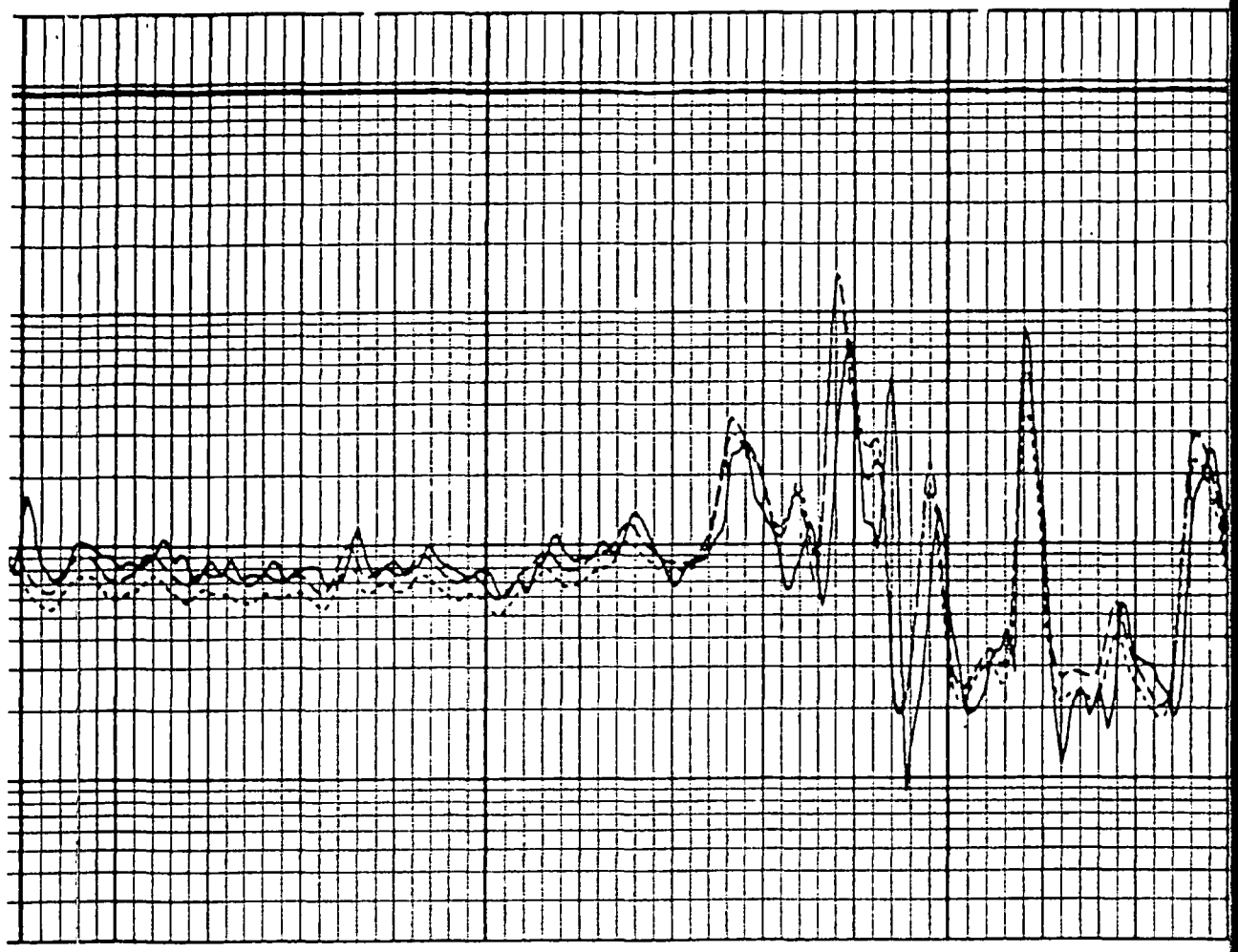

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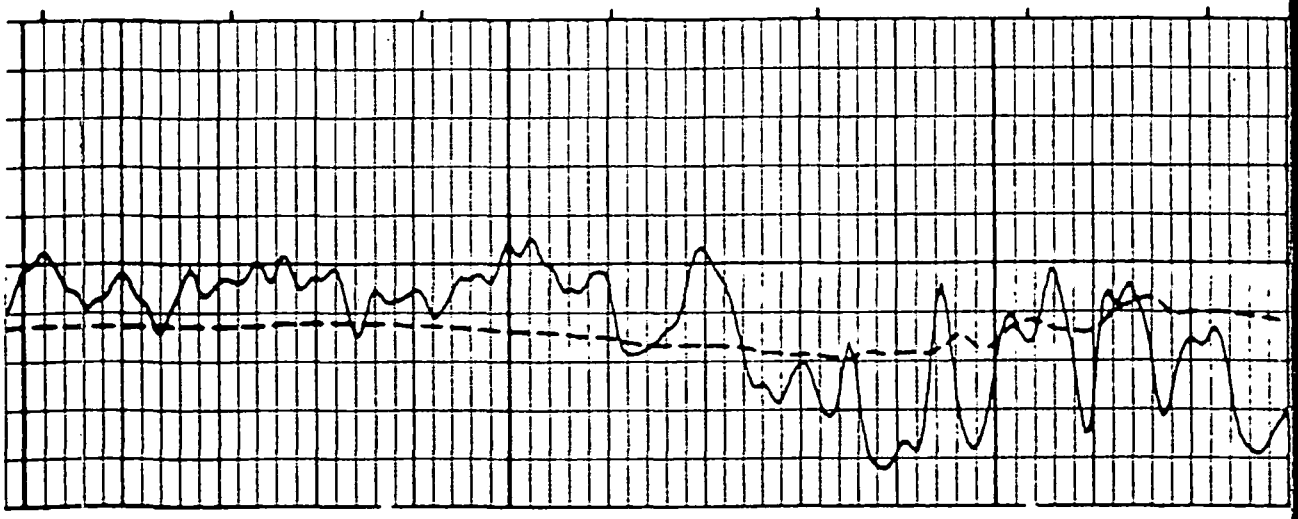

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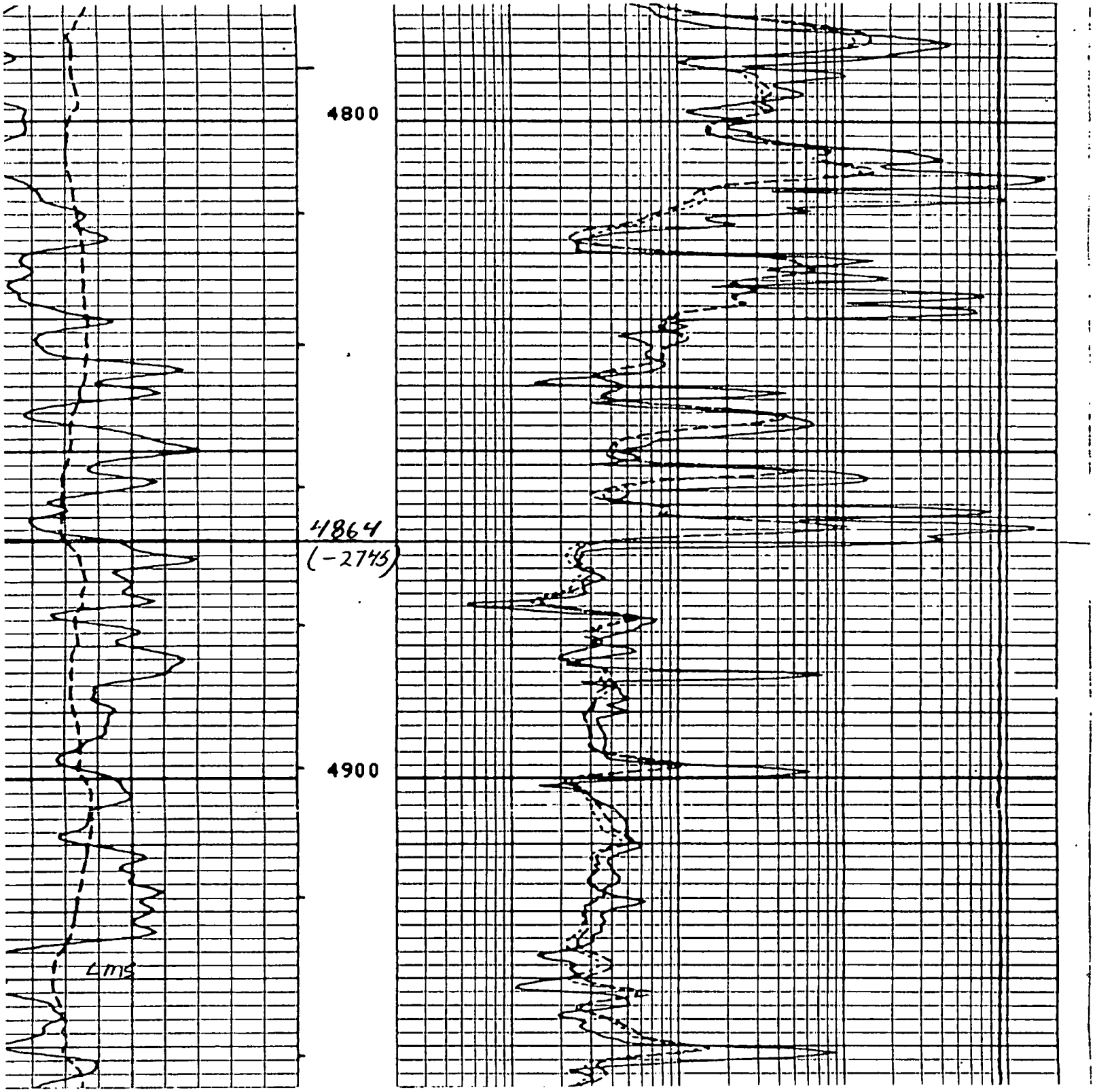
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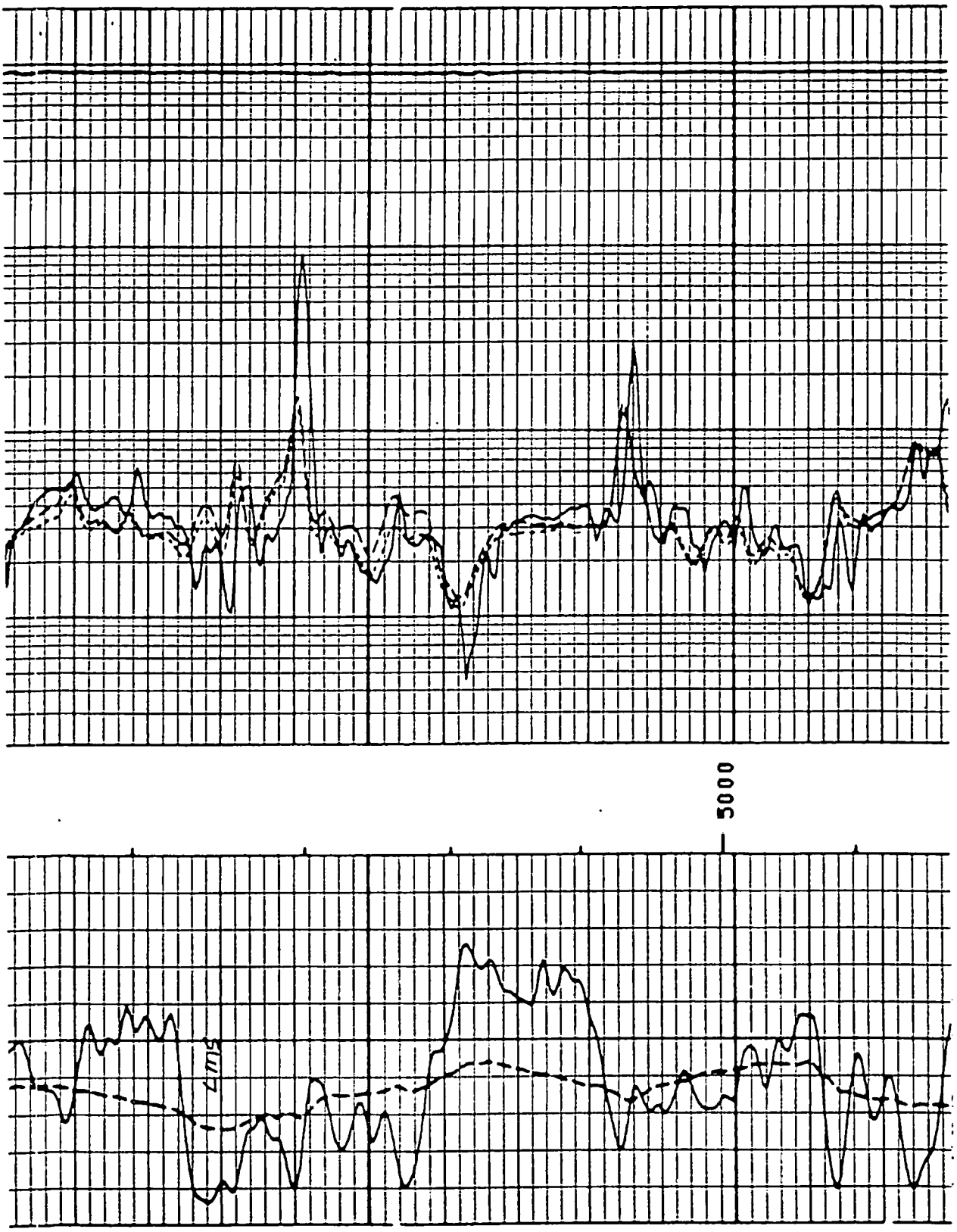
Cms



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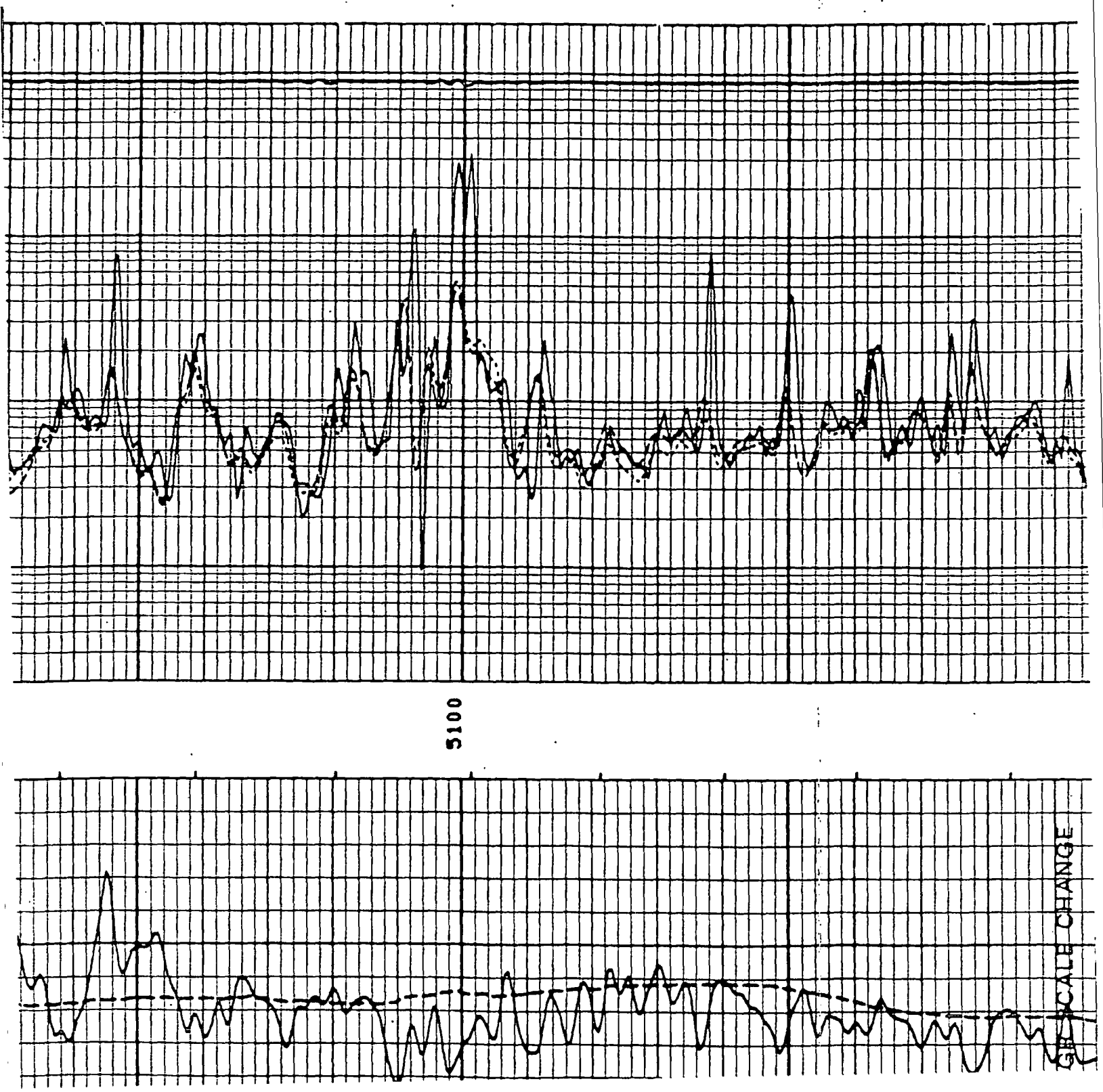

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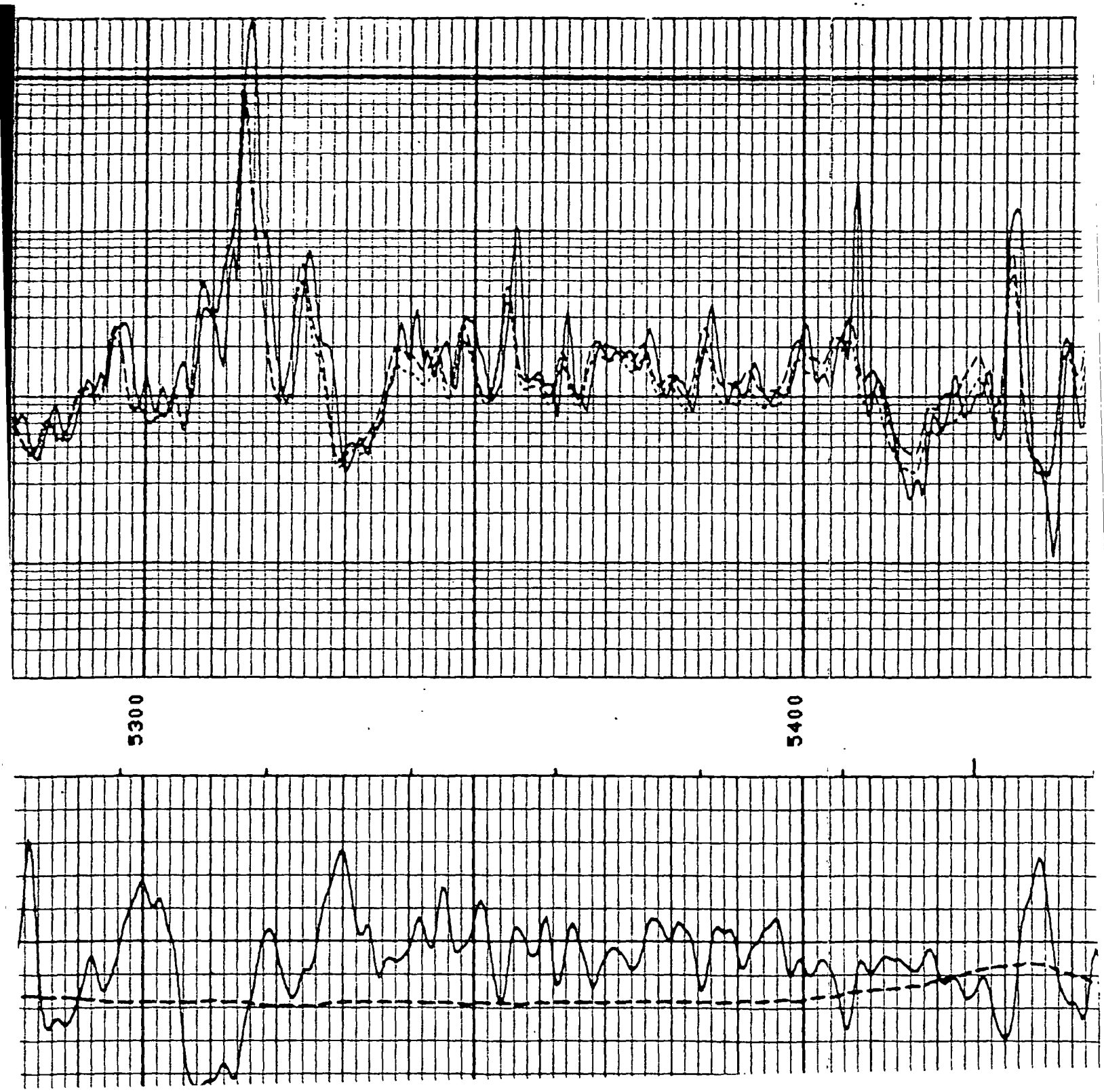
MAR02-0940



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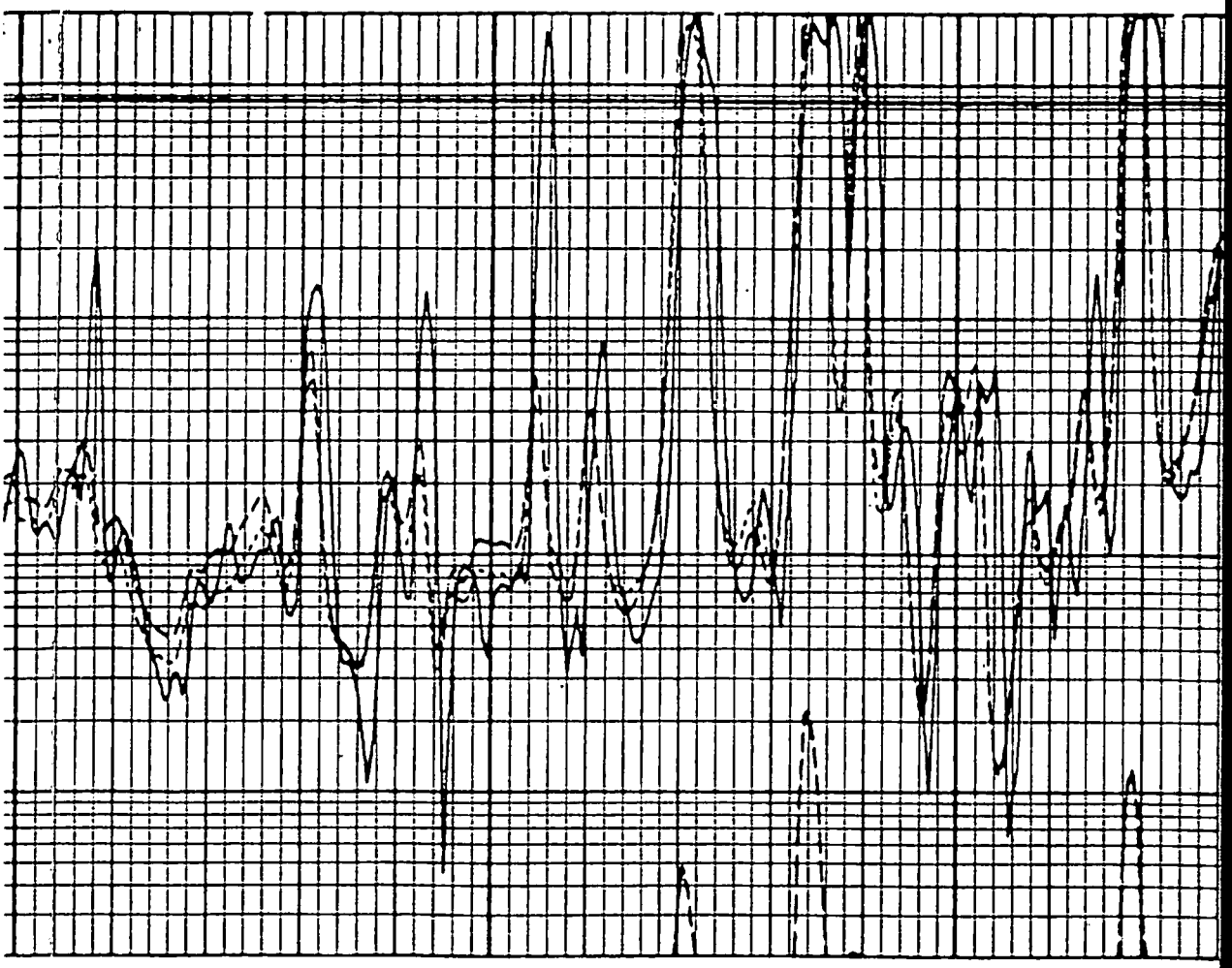

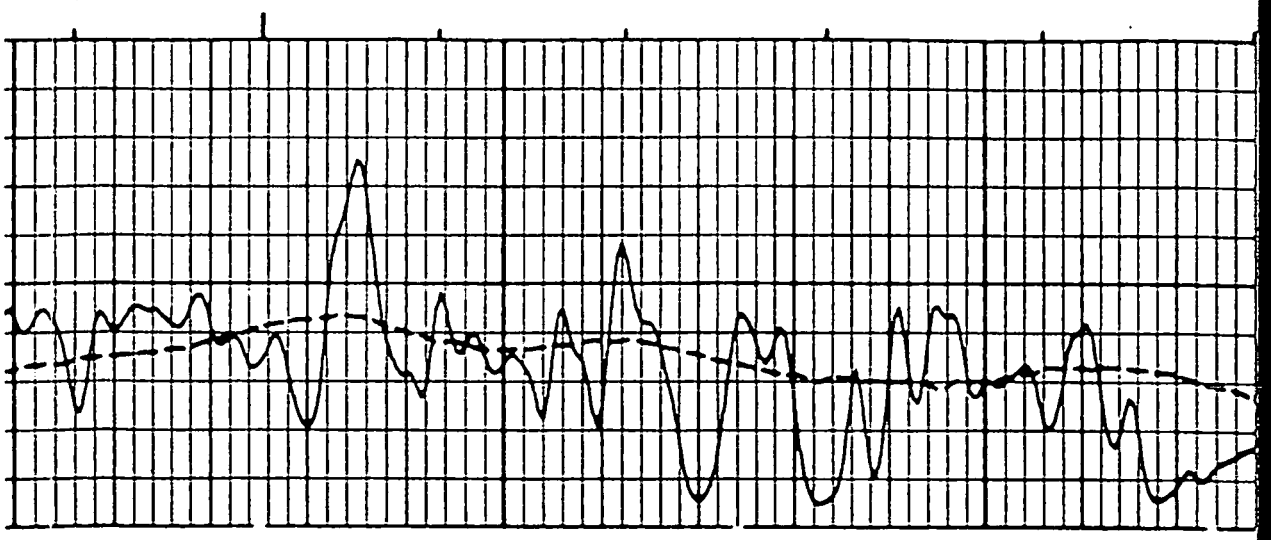

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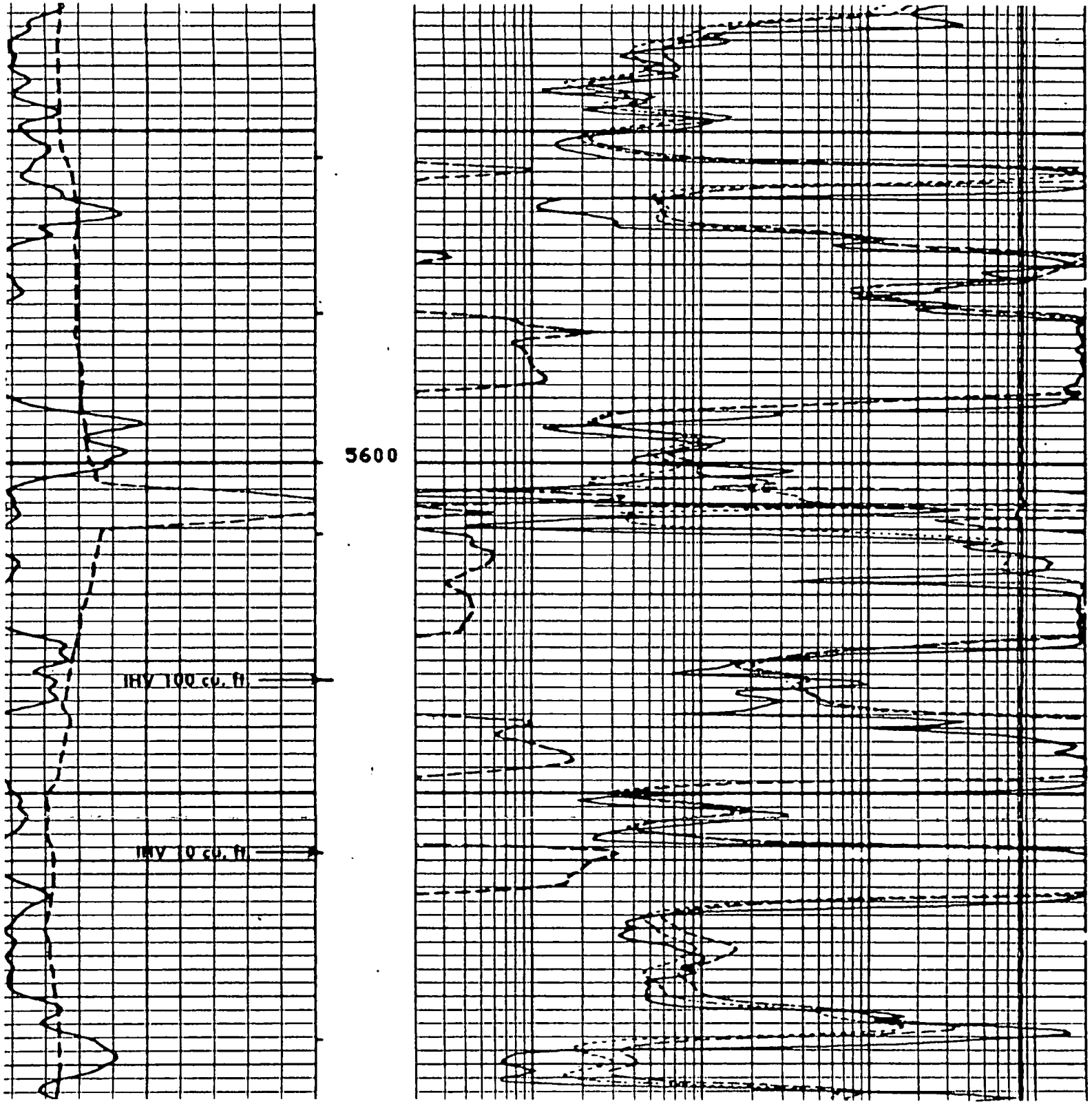

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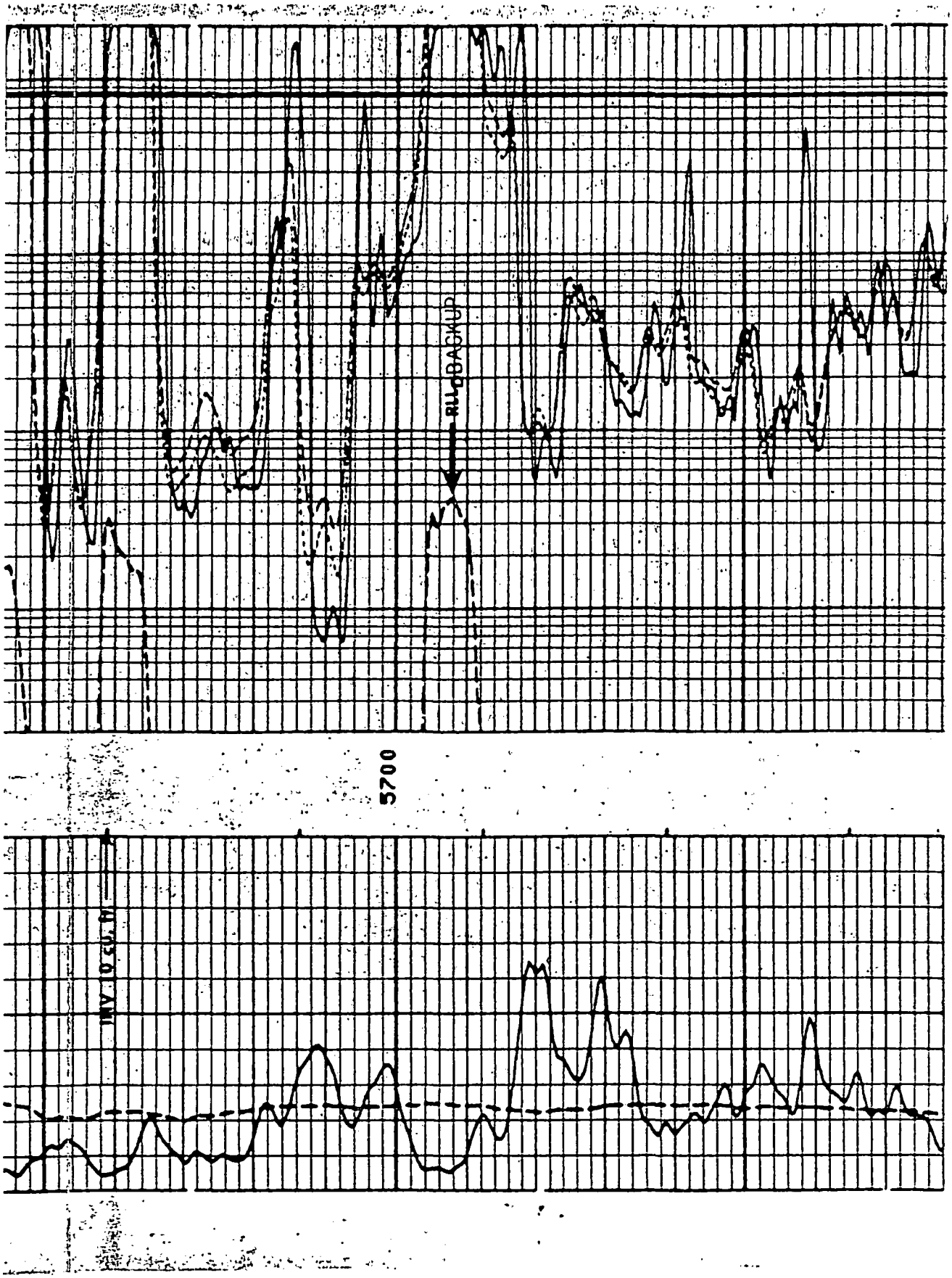

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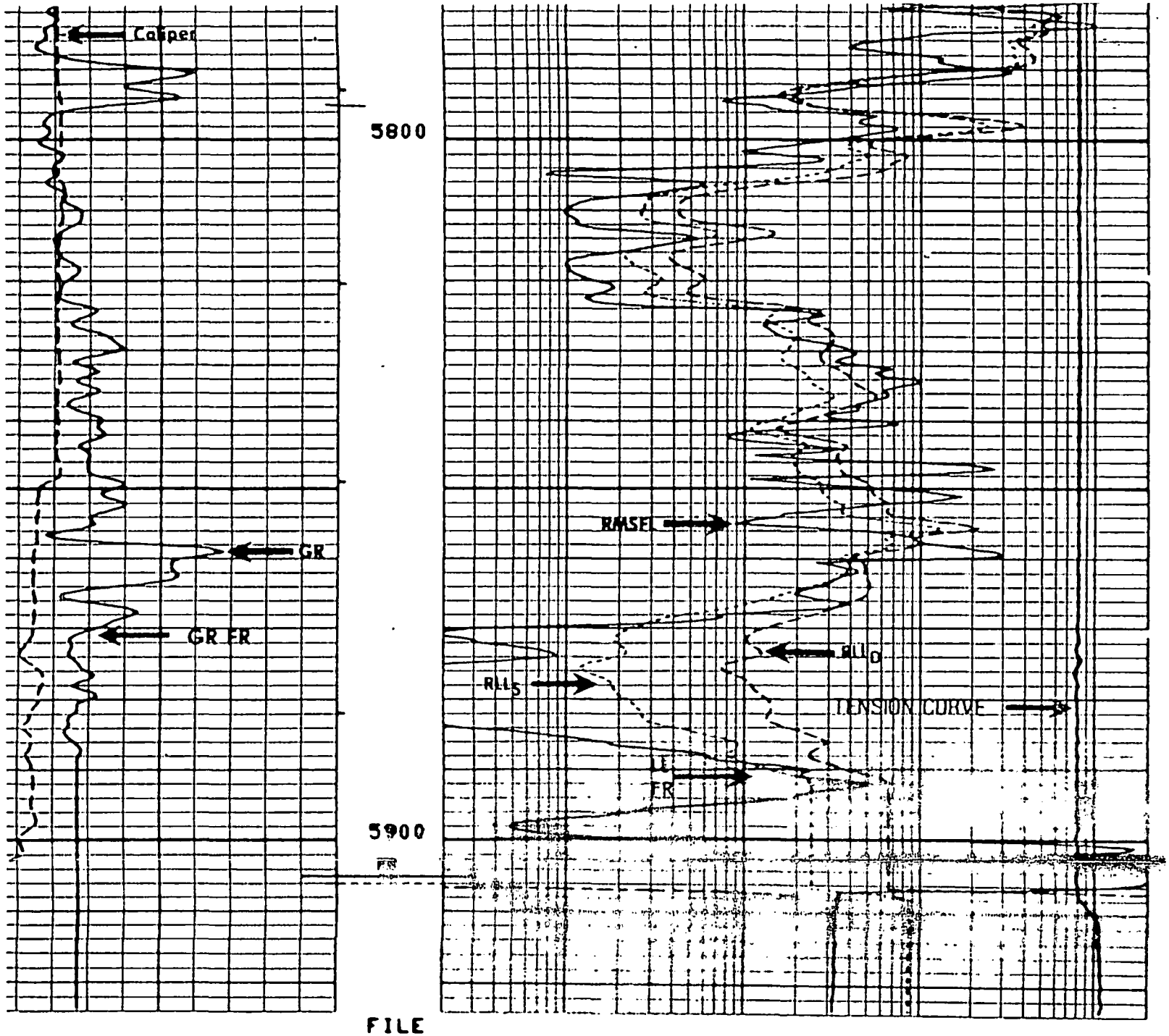
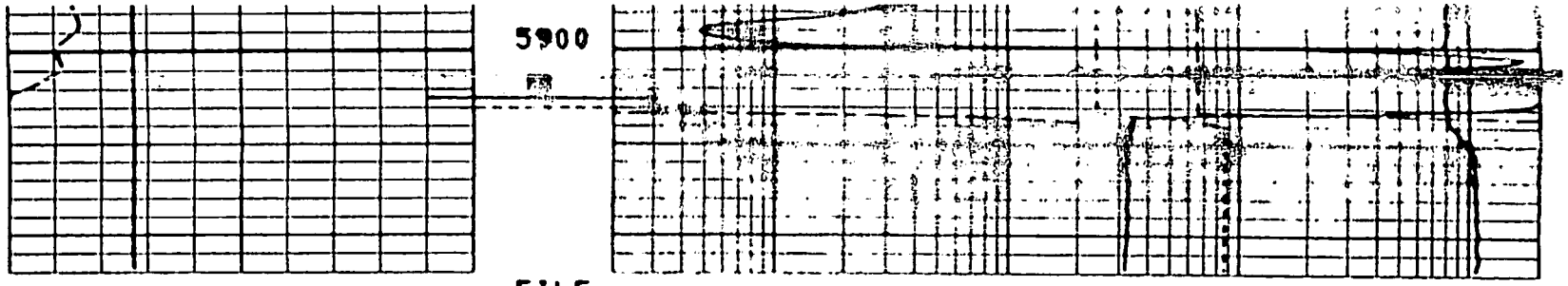


14

LLD (OHMM)

TENS(LB)

MAR02-0945



GR (GAPI)		LLD (OHMM)		TENS(LB)	
0.0	100.0	2000.	200000	10000.	0.0
CALI(IN)		LLD (OHMM)			
16.00	26.00	0.2000			2000.
CALI(IN)		LLS (OHMM)			
6.000	16.00	0.2000			2000.
		RXO (OHMM)			
		0.2000			2000.

PARAMETERS

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
FPHI		PHIX	SPT		STAN	BS	INCH	7.875
DO		0.0	BHS		OPEN			

MAR02-0946

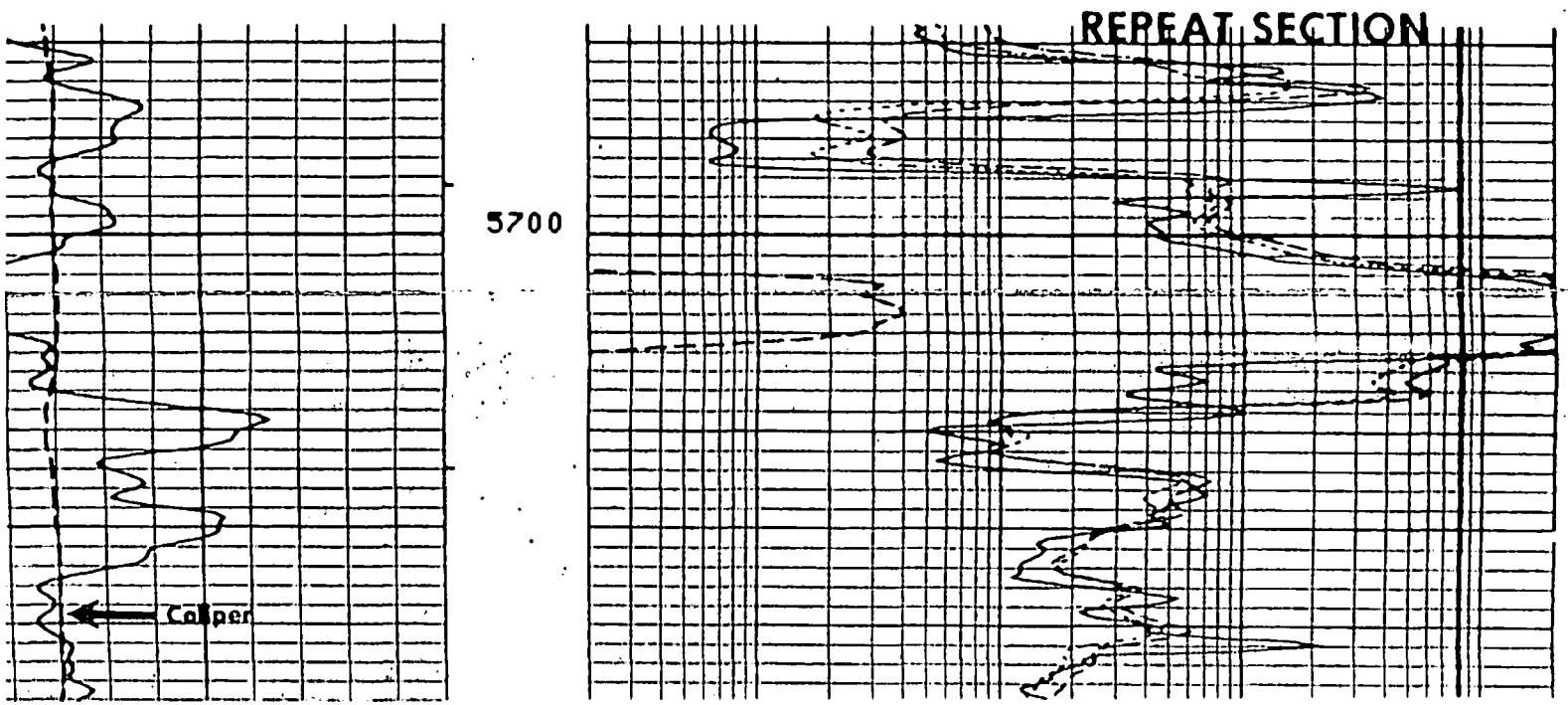
PARAMETERS

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
FPHI		PHIX	SPT		STAN	BS	INCH	7.875
DO		0.0	BHS		OPEN			

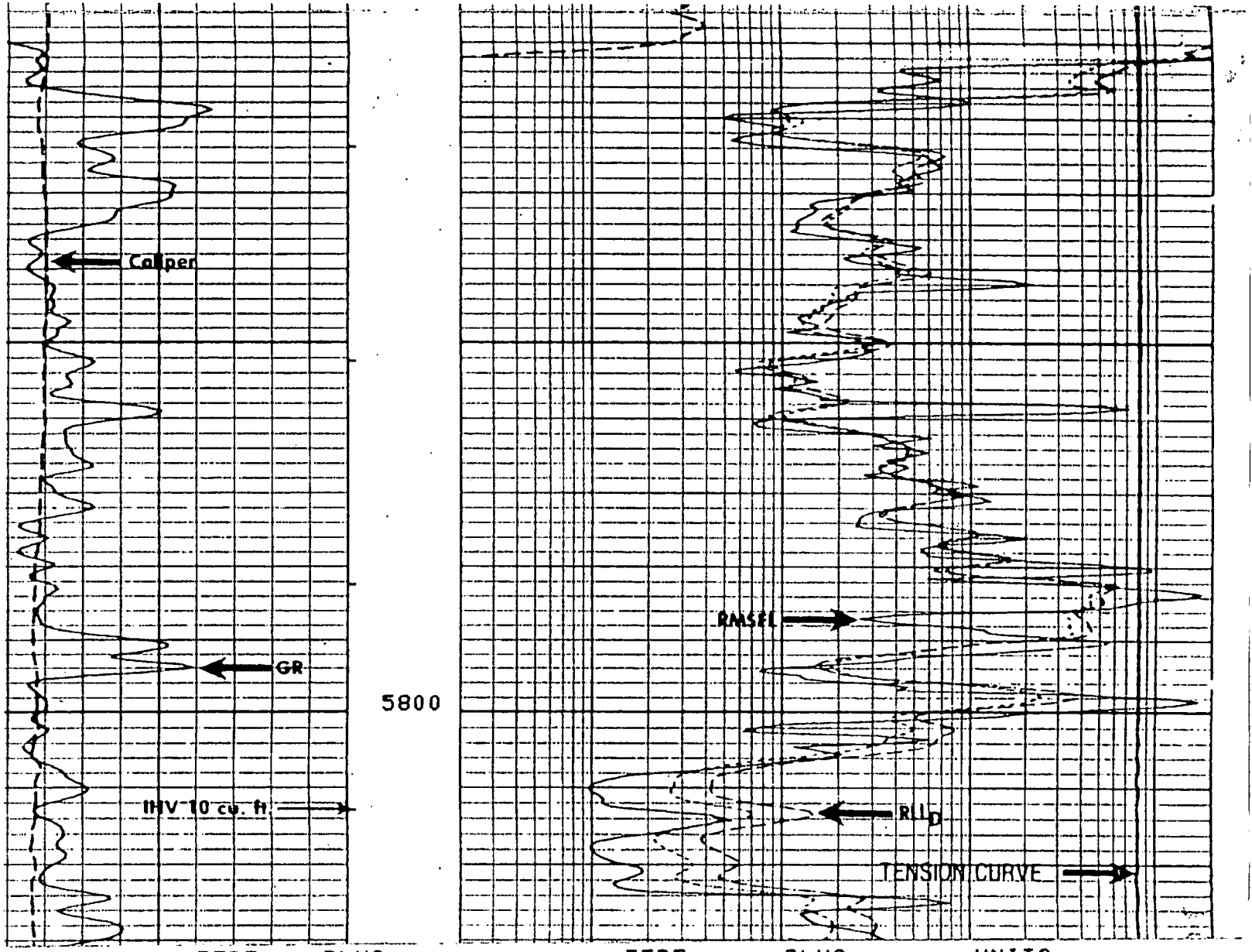
GR (GAPI)		LLD (OHMM)	TENS(LB)
0	100.0	2000. 200000	10000. 0.0
CALI(IN)		LLD (OHMM)	
.00	26.00	0.2000	2000.
CALI(IN)		LLS (OHMM)	
000	16.00	0.2000	2000.
		RXO (OHMM)	
		0.2000	2000.

FILE

13



MLR02-0947

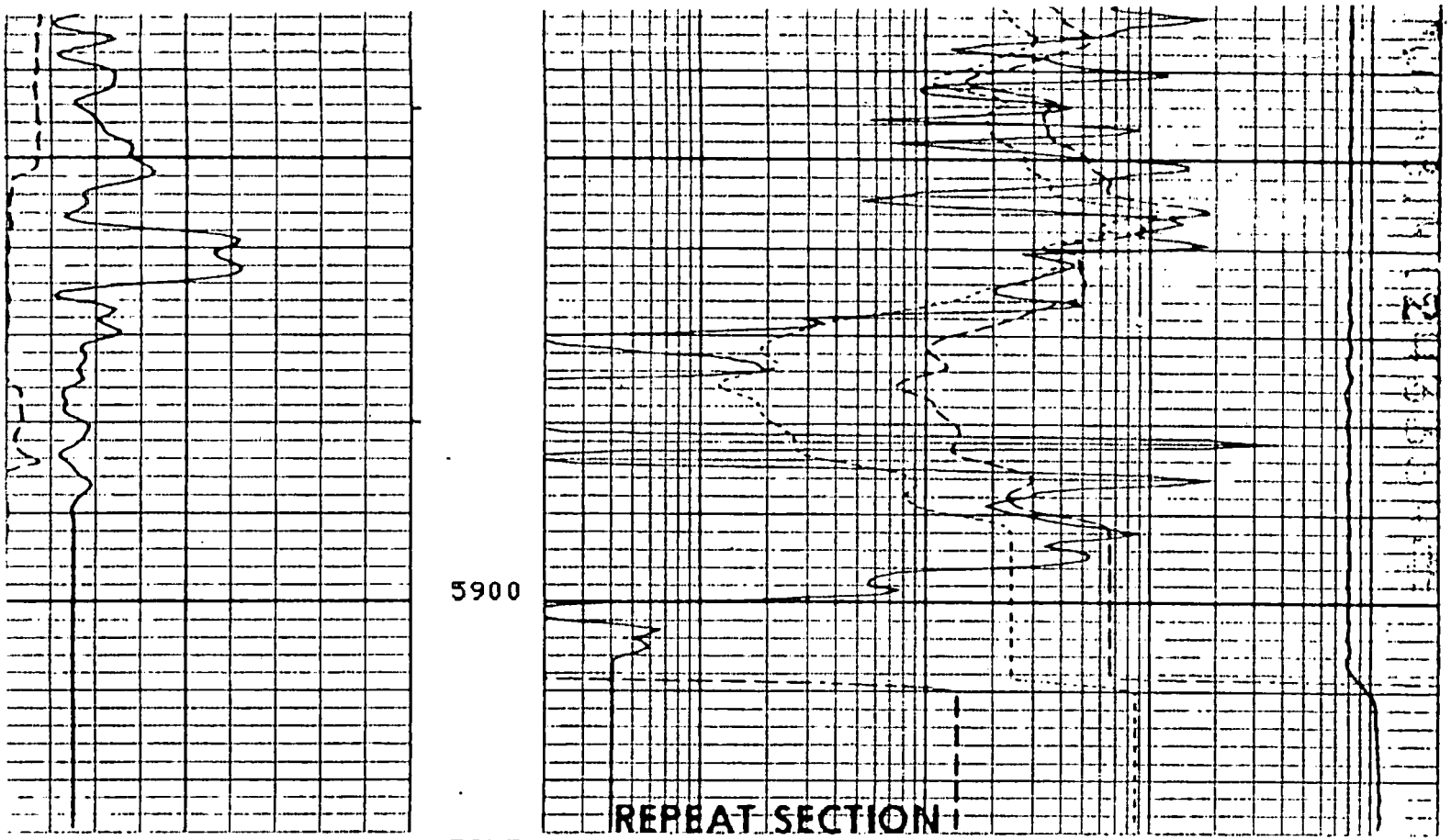


	ZERO	PLUS	ZERO	PLUS	UNITS
CMSF	0.5	967.5	0.0	999.9	MM/M
I1	7.1	186.0	0.0	200.0	MM/M

SGTE DETECTOR CALIBRATION SUMMARY

	MEASURED BKGD	MEASURED JIG	CALIBRATED	UNITS
GR	48	207	165	GAPI

MAR02-0948



FILE

13

GR (GAPI)		LLD (OHMM)	TENS(LB)
0	100.0	2000. 200000	10000. 0.0
CALI(IN)		LLD (OHMM)	
.00	26.00	0.2000	2000.
CALI(IN)		LLS (OHMM)	
000	16.00	0.2000	2000.
		RXO (OHMM)	
		0.2000	2000.

PARAMETERS

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE

MAR02-0949

CALI(IN)		LLS (OHMM)	
16.00	26.00	0.2000	2000.
CALI(IN)		RXO (OHMM)	
6.000	16.00	0.2000	2000.

PARAMETERS

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
FPHI		PHIX	SPT		STAN	BS	INCH	7.875
DO		0.0	BHS		OPEN			

BEFORE SURVEY CALIBRATION SUMMARY

PERFORMED: 81/08/22
PROGRAM FILE: DST (VERSION 18.2 81/04/25)

DSTD ELECTRONICS CALIBRATION SUMMARY

	MEASURED	CALIBRATED	UNITS
LLS	38.09	31.60	OHM
LLD	36.56	31.60	OHM

DST ELECTRONICS CALIBRATION SUMMARY

	MEASURED	CALIBRATED

MAR02-0950

CMSF	0.5	967.5	0.0	999.9	MM/M
I1	7.1	186.0	0.0	200.0	MM/M

SGTE DETECTOR CALIBRATION SUMMARY

	MEASURED BKGD	MEASURED JIG	CALIBRATED	UNITS
GR	48	207	165	GAPI

DST CALIPER CALIBRATION SUMMARY

	MEASURED SMALL	MEASURED LARGE	CALIBRATED SMALL	CALIBRATED LARGE	UNITS
CALI	7.4	10.7	8.0	12.0	IN

FILE

12

COMPANY TEXAS OIL AND GAS CORPORATION

WELL BUCKLE B NO.1

FIELD EAST POPLAR

COUNTY ROOSEVELT STATE MONTANA

SCHL. FR 5905
SCHL. TD 5906
DRLR TD 5920

Elev: KB 2119
DF ----
GL 2106

MAR02-0951

Schlumberger

SIMULTANEOUS

COMPENSATED NEUTRON-FORMATION DENSITY

COUNTY ROOSEVELT
FIELD EAST POPLAR
LOCATION SEC. 22-28N-51E
WELL BUCKLE B NO.1
COMPANY TEXAS OIL AND GAS CORPORATION

COMPANY TEXAS OIL AND GAS CORPORATION
PRODUCTION DEPT.

WELL BUCKLE B NO.1

FIELD EAST POPLAR

COUNTY ROOSEVELT STATE MONTANA

LOCATION

API SERIAL NO.	SEC.	TWP.	RANGE
	22	28N	51E

Other Services:
DLL/MSFL/GR

Permanent Datum: GL ; Elev.: 2106
Log Measured From KB , 13 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 2119
D.F. ----
G.L. 2106

Date	8-21-81			
Run No.	ONE			
Depth—Driller	5920			
Depth—Logger	5905			
Btm. Log Interval	5902			
Top Log Interval	4600			
Casing—Driller	8-5/8@ 1200	@	@	@
Casing—Logger	NOT LOGGED			
Bit Size	7-7/8			
Type Fluid in Hole	SALT STARCH-GEL			
Dens. / Visc.	10.4 / 40			
pH / Fluid Loss	7.0 / 10 ml	ml	ml	ml
Source of Sample	MUD TANK			
Rm @ Meas. Temp.	.053 @ 70 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	.045 @ 70 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	.080 @ 70 °F	@ °F	@ °F	@ °F
Source: Rmf / Rmc	M / C			
Rm @ BHT	.021 @ 195°F	@ °F	@ °F	@ °F
TIME: Circulation Stopped	0630 8-21			
TIME: Logger on Bottom	1300			
Max. Rec. Temp.	195 °F	°F	°F	°F
Equip. / Location	8247 / WLSTN 4109			
Recorded By	SORENSEN-BARBER			
Witnessed By	DYER			

MAR-828

MAR02-0952

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

).	ONE				
der No.	243384				
	FULL				
PM CL.	304590				
P.M.	30				
ENT DATA					
l	NLM-BC-1126				
	PGC-JA-435				
	PDH-M-561				
le	PGS-HB-462				
ce	GSR-J-6268				
brator	SFT-136-513				
l	NLM-BC-1128				
	CNC-A-2296				
ce	NSR-FA-2138				
brator	CNB-AB-2411				
	SGC-JC-3204				
Panel	CPU-CBB-1409/1408				
der (TTR)	MTU-D-2775				
der (DRE)	OMU-CBA-1001				
heel (CPW)	IDW-B-1972				
Type	BOWSPRING CALIPER				
No.	1	1			
lone S. O. — Inches	NONE				
TION DATA					
BKG. API	32				
Source API	194				
Sens. - Cal	100				
DC FT	1				
acing - Before Log	2.203				
acing - Before Log	2.203				
acing - After Log	2.203				
acing - After Log	2.203				
fore Log	340				
fore Log	529				
ler Log	339				
ler Log	530				

SCALE CHANGES

Type Log	Depth	UPHOLE	DOWNHOLE
GR	5200	0-200	0-100
ØN	5200	45/-15	30/-10
ØD	5200	45/-15	30/-10

REMARKS:

TENSION MEASURE POINT: 3"

LOGGING DATA

EPTH	CNP				FDC				GR			
Bottom	Porosity Scale	Matrix	Auto Corr. or Hole Size Setting		Porosity Scale	Grain Density	Liquid Density	Hole Fluid	Sens. Logged	D.C. FT.	Zero. Div. Left	Scale Per 100 Div.
TD	30/-10	LIME	AUTO		30/-10	2.71	1.1	LIQ	100	1	0	100
5200	45/-15	LIME	AUTO		45/-15	2.71	1.1	LIQ	200	1	0	200

rpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any inter-
ons, 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

MAR02-0953

P¹ — After Log	339				
P² — After Log	530				

LOGGING DATA

DEPTH		CNP			FDC				GR			
Top	Bottom	Porosity Scale	Matrix	Auto Corr. or Hole Size Setting	Porosity Scale	Grain Density	Liquid Density	Hole Fluid	Sens. Logged	D.C. FT.	Zero. Div. Left	Scale Per 100 Div.
5200	TD	30/-10	LIME	AUTO	30/-10	2.71	1.1	LIQ	100	1	0	100
4600	5200	45/-15	LIME	AUTO	45/-15	2.71	1.1	LIQ	200	1	0	200

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 interpretations, 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 as set out in our current Price Schedule

AFTER SURVEY TOOL CHECK SUMMARY

PERFORMED: 81/08/22
PROGRAM FILE: PGT (VERSION 18.2 81/04/25)

CNTA TOOL CHECK

	JIG BEFORE	JIG AFTER
NRAT	2.203	2.203

POROSITY CHANGE (LIME): 0.000

PGTK TOOL CHECK

	JIG BEFORE	JIG AFTER	UNITS
FFDC	340	339	CPS

MAR02-0954

FILE

7

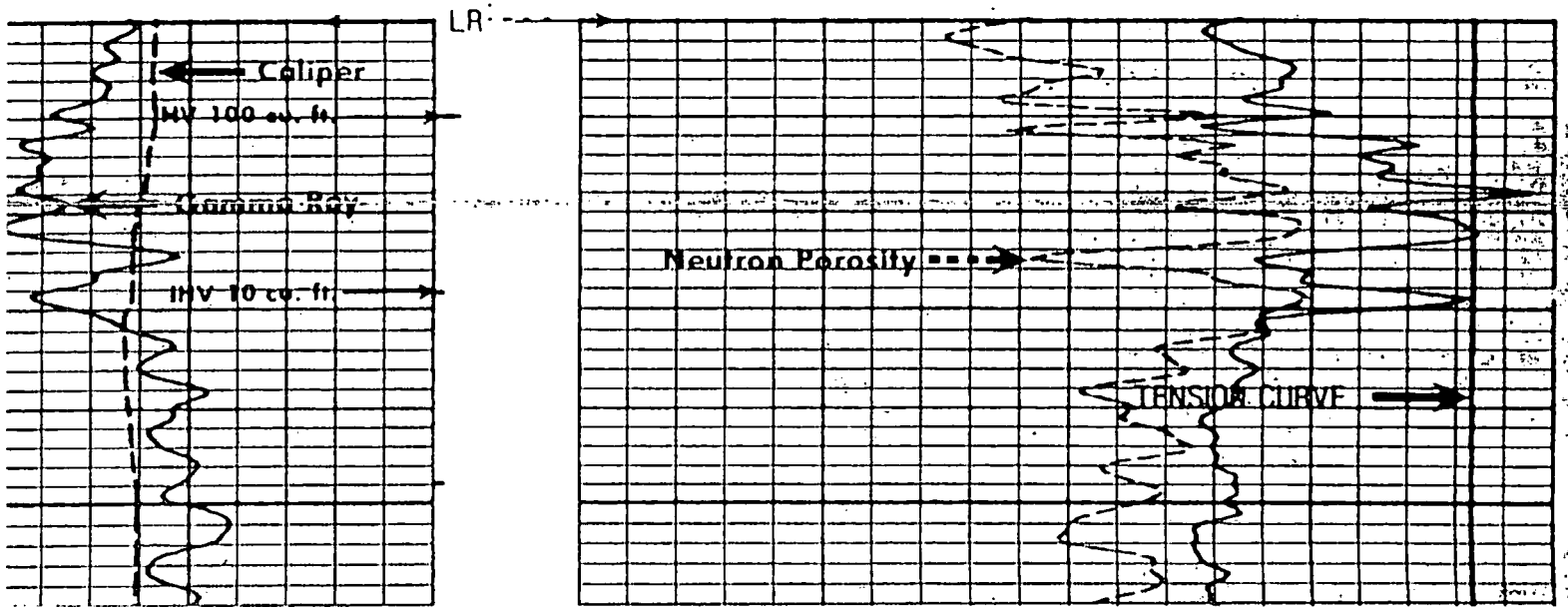
PARAMETERS

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
HC		CALI	PSNR		2.235	BS	INCH	7.875
MDEN	G/C3	2.710	FD	G/C3	1.100	MATR		LIME
BHF		WATE						
DO		0.0	BHS		OPEN	FPHI		PHIX

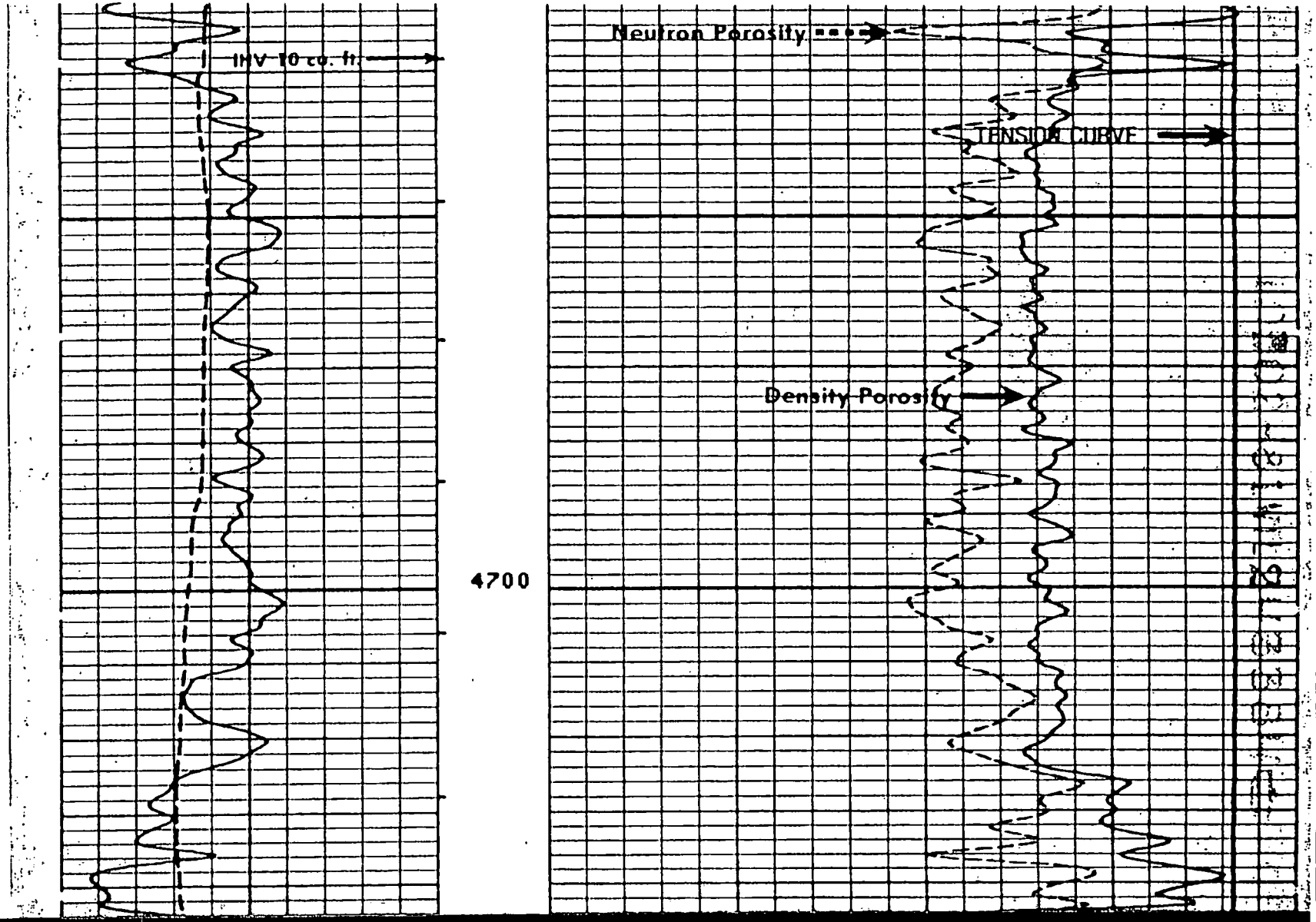
CALI(IN) .00 26.00			TENS(LB) 10000. 0.0
CALI(IN) 000 16.00		DPHI( )LIMESTONE 0.4500 -0.150	
GR (GAPI) 0 200.0		NPHI( )LIMESTONE 0.4500 -0.150	

FILE

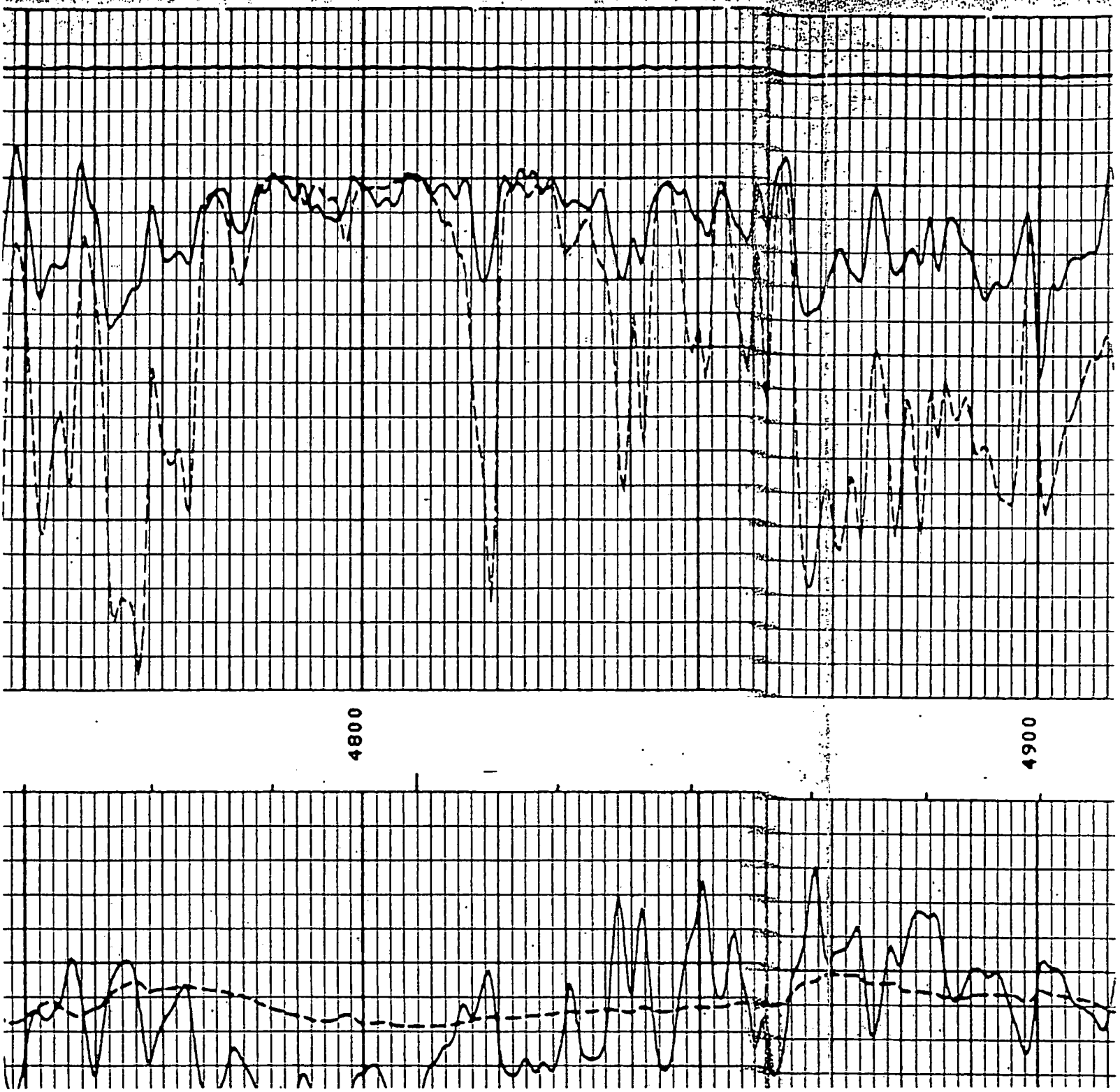
5



MAR02-0955

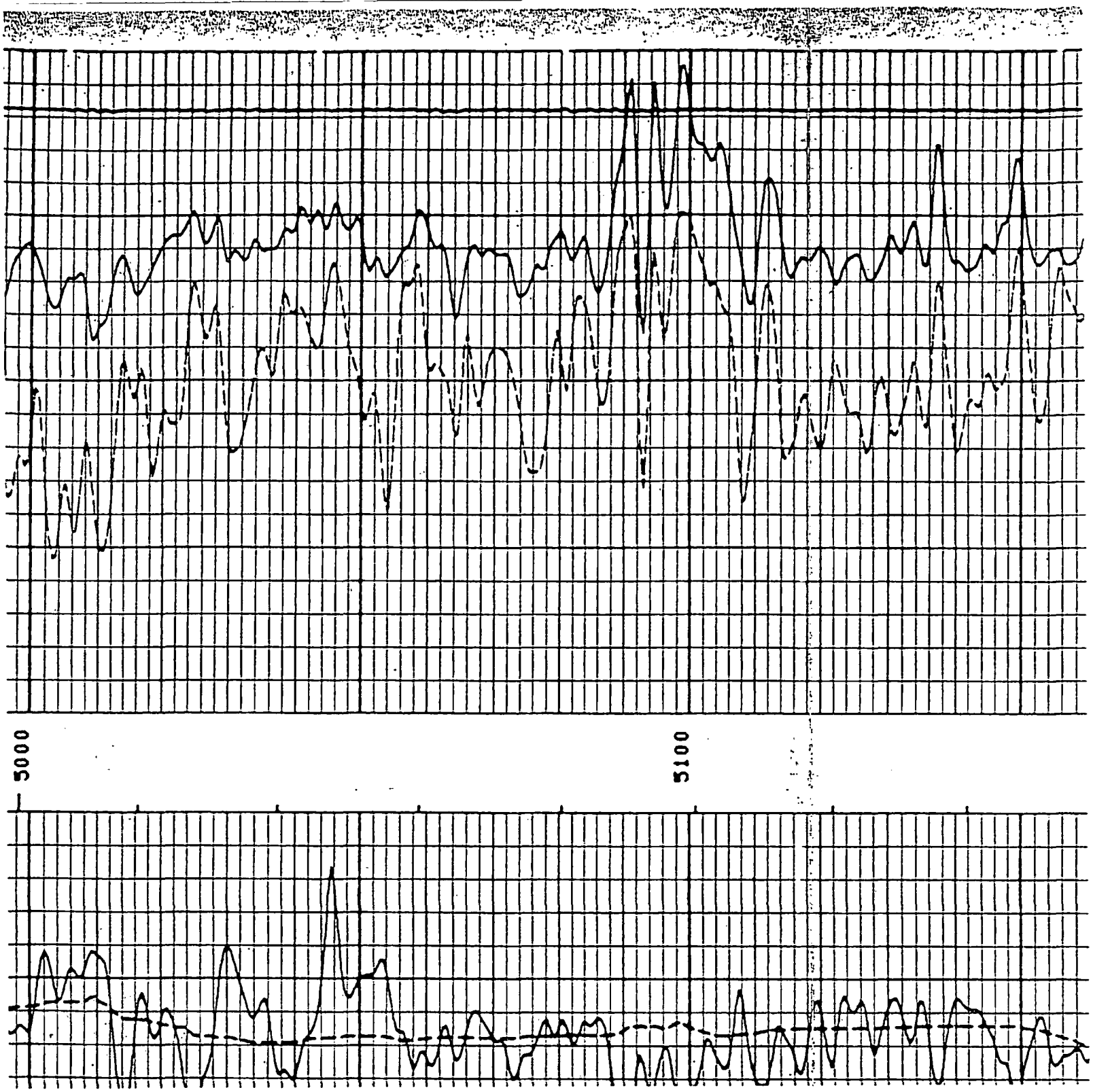

INV 10 cu. ft.
Neutron Porosity
TENSION CURVE
Density Porosity
4700

MAR02-0956

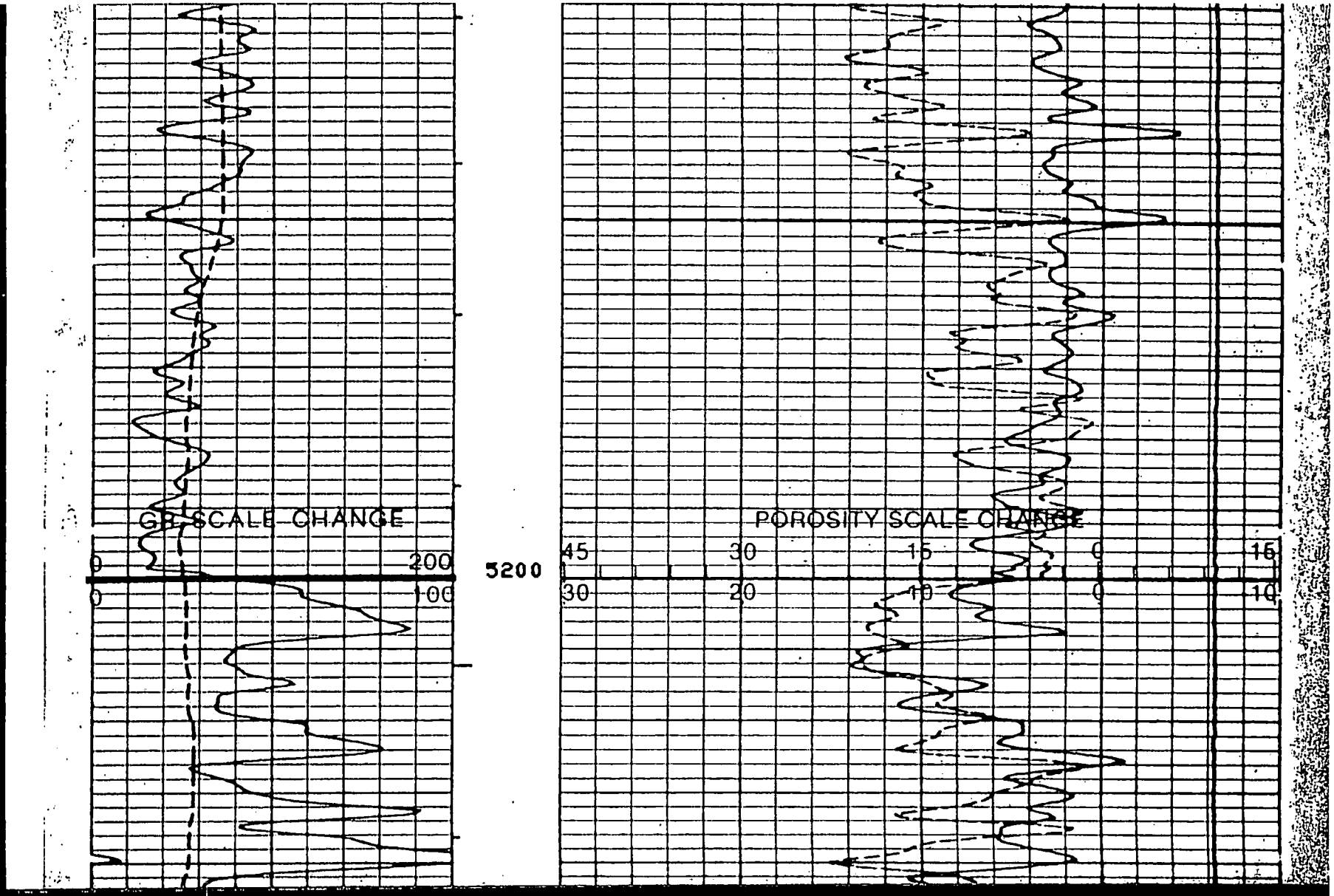


MAR02-0957

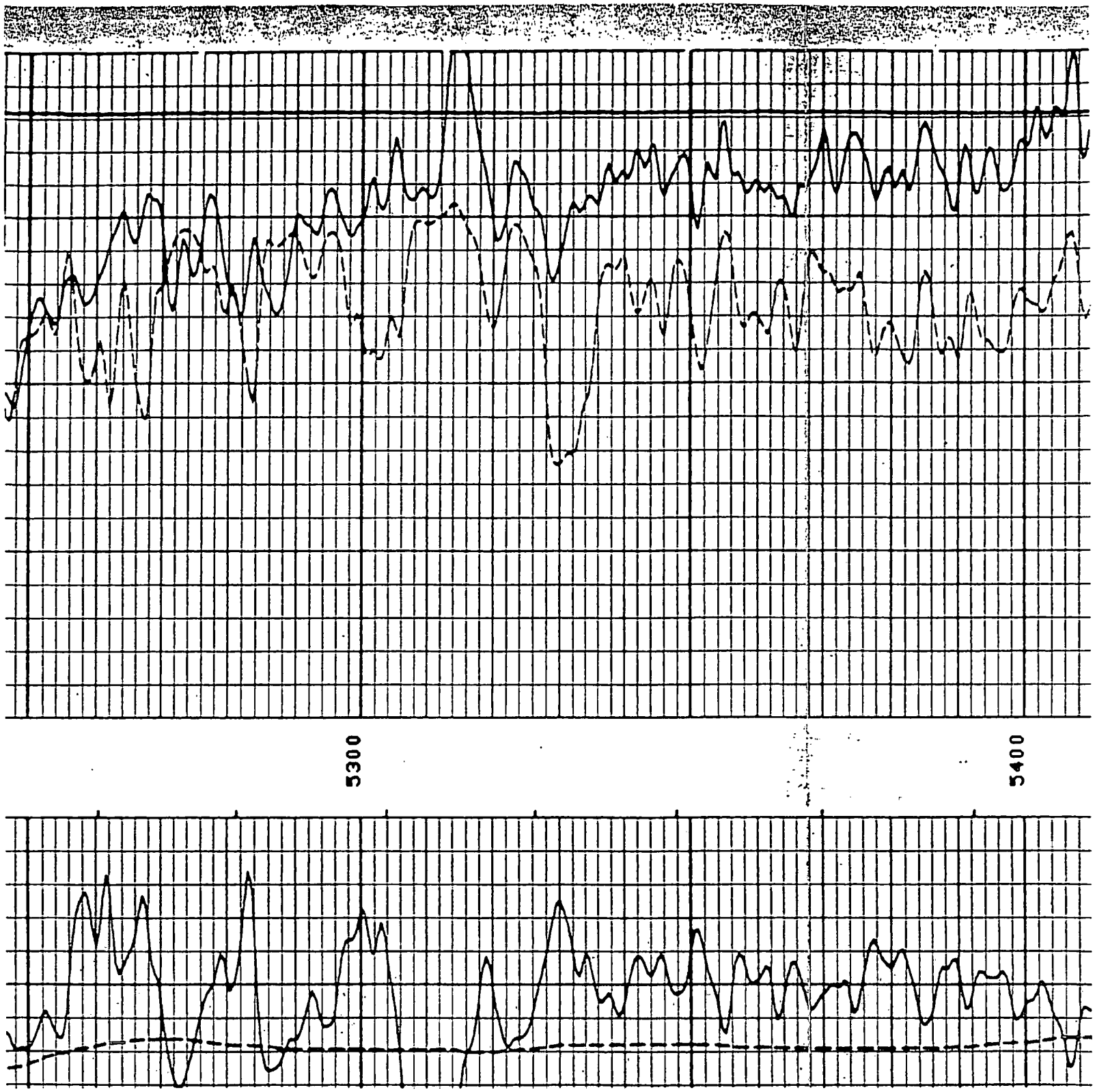
MAR02-0958



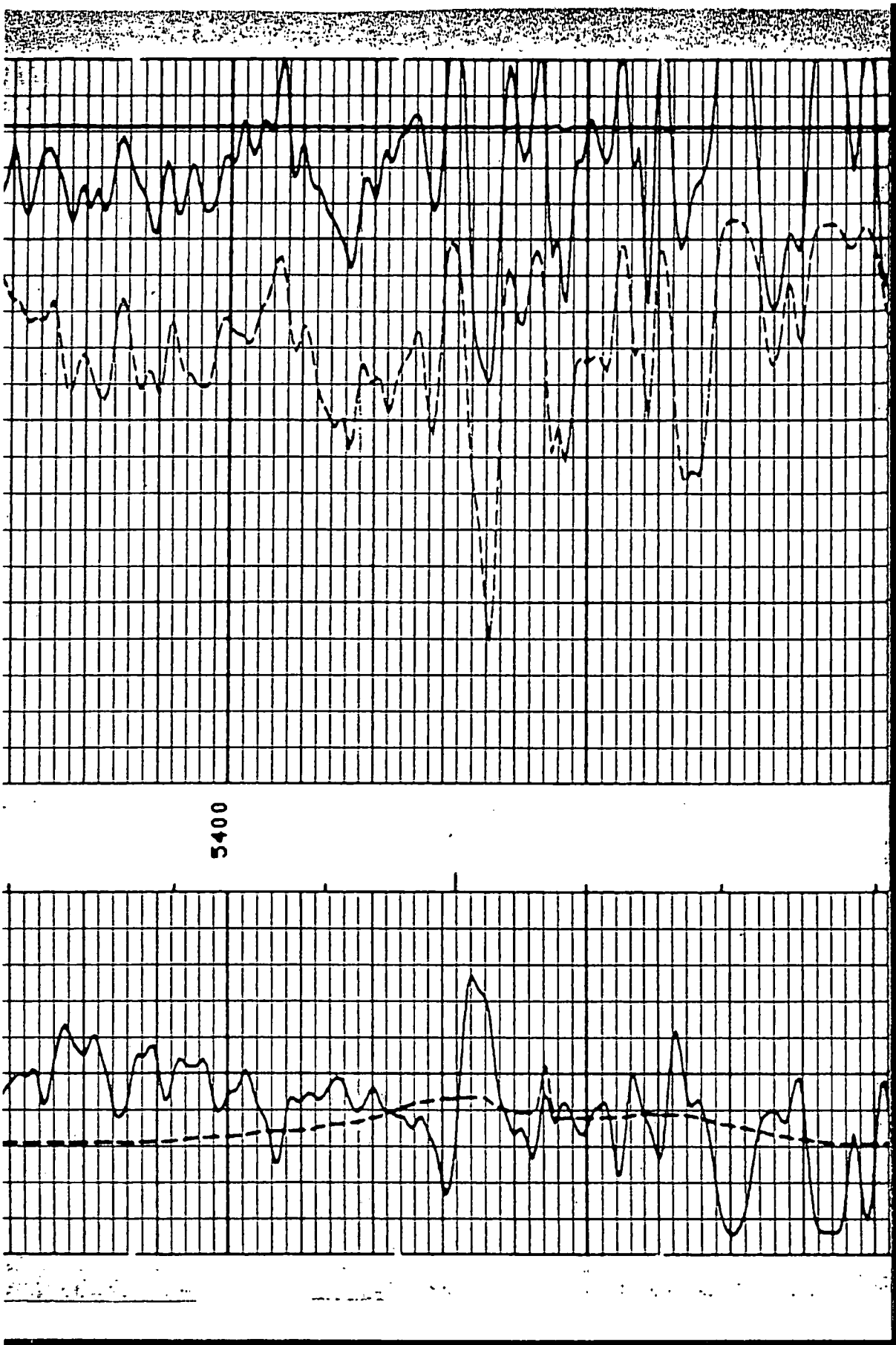
MAR02-0959


GR SCALE CHANGE
0
200
0
100
5200
POROSITY SCALE CHANGE
45
30
15
0
15
30
20
10
0
10

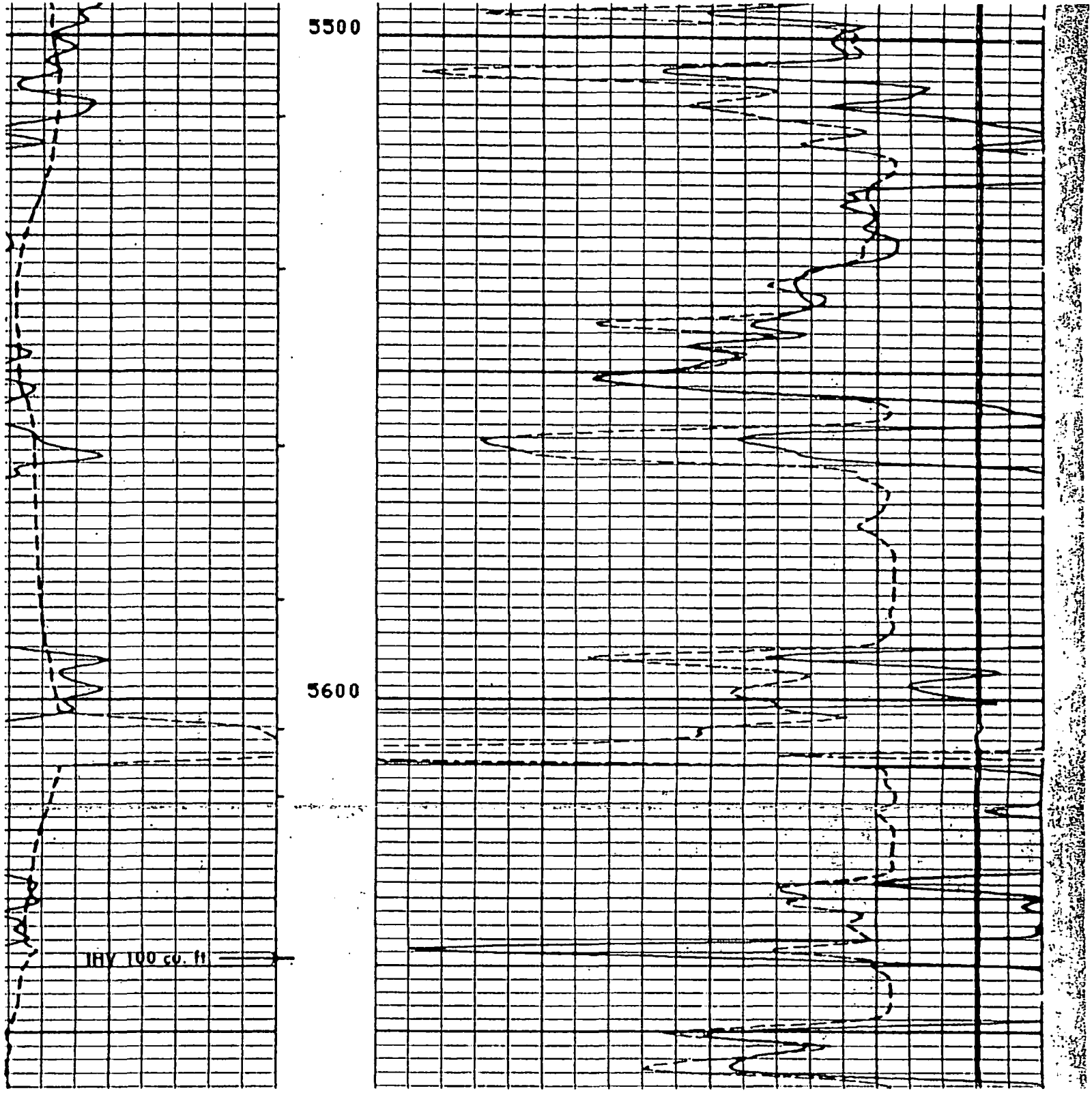
MAR02-0960



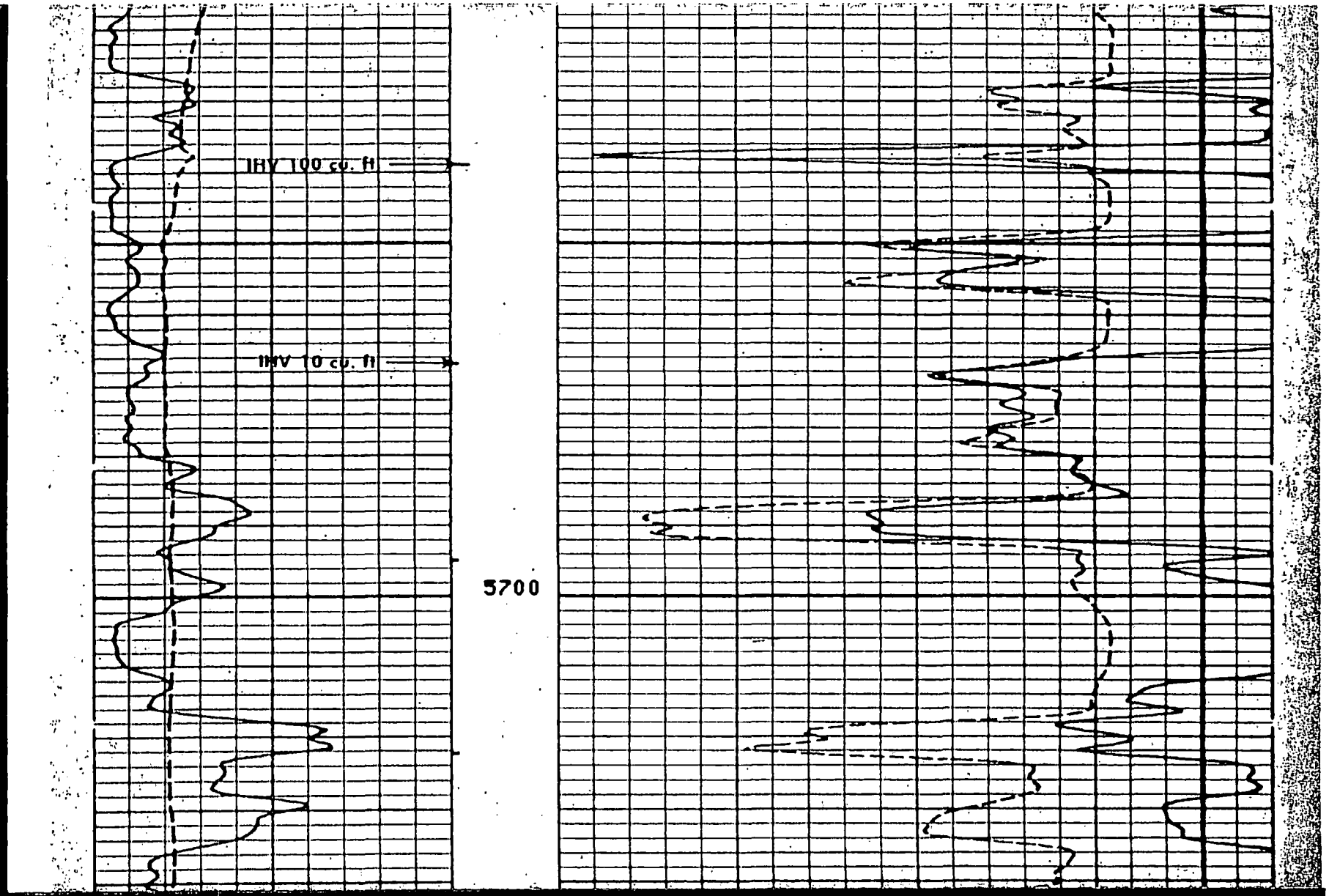
MAR02-0961



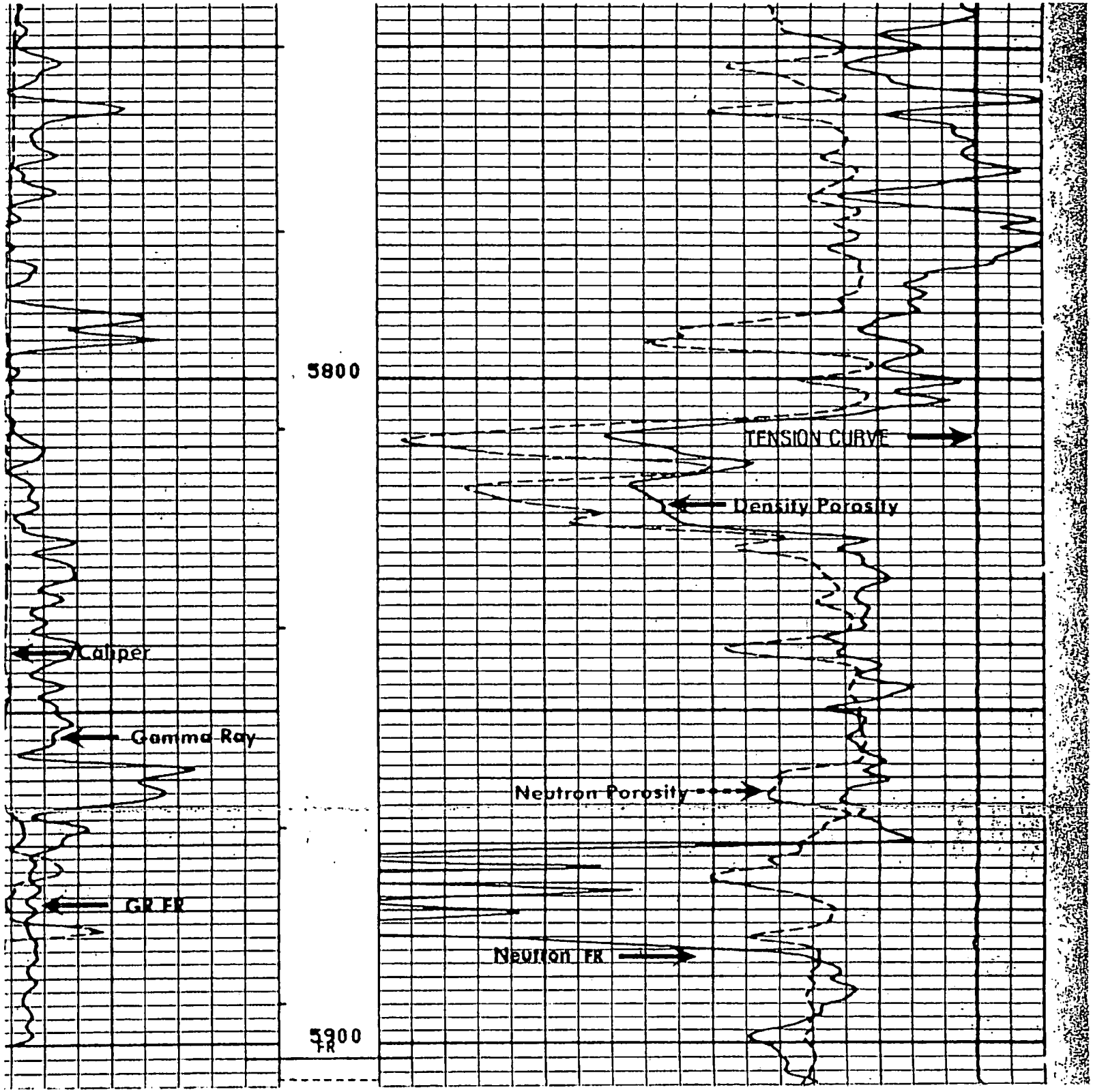
MAR02-0962



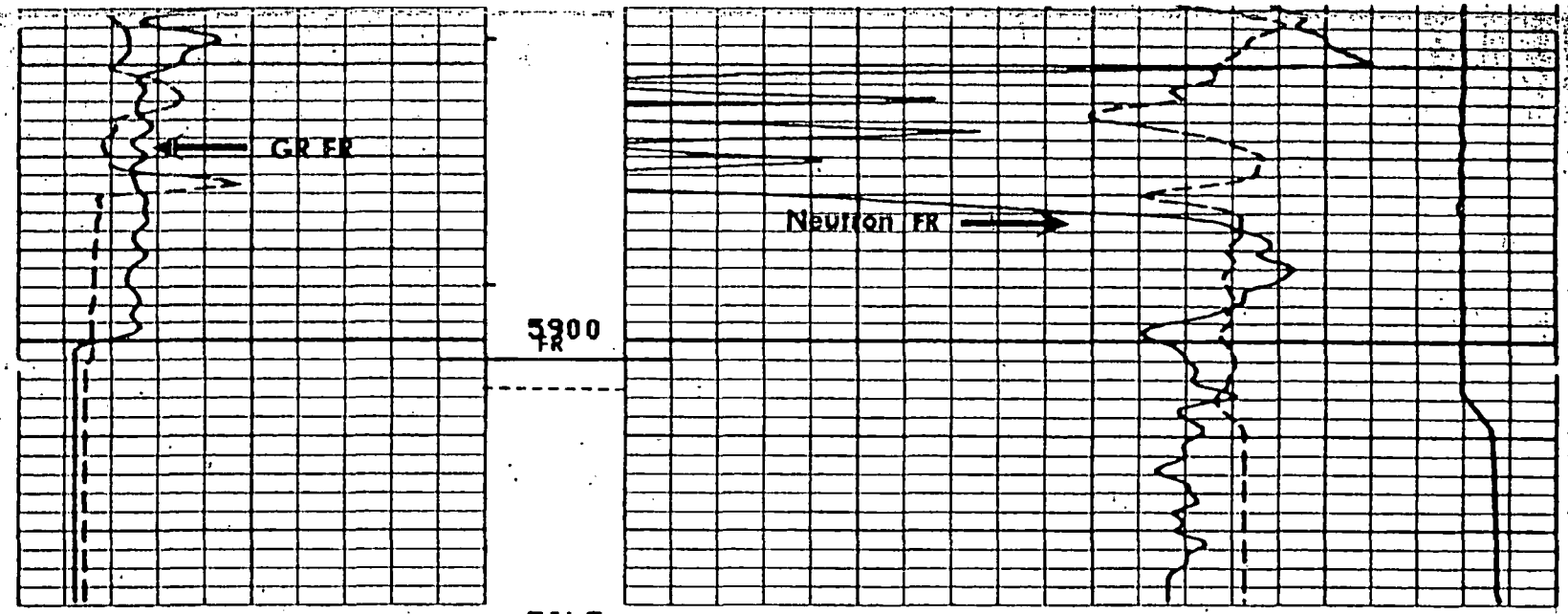
MAR02-0963



MAR02-0964


5800
TENSION CURVE
Density Porosity
Caliper
Gamma Ray
Neutron Porosity
GR FR
Neutron FR
5900
FR

MAR02-0965



FILE

5

CALI(IN)			TENS(LB)
16.00	26.00		10000. 0.0
CALI(IN)		DPHI( ) LIMESTONE	
6.000	16.00	0.3000	-0.100
GR (GAPI)		NPHI( ) LIMESTONE	
0.0	100.0	0.3000	-0.100

PARAMETERS

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE

MAR02-0966

HC		CALI	PSNR		2.235	BS	INCH	7.875
MDEN	G/C3	2.710	FD	G/C3	1.100	MATR		LIME
BHF		WATE						
DO		0.0	BHS		OPEN	FPHI		PHIX

PARAMETERS

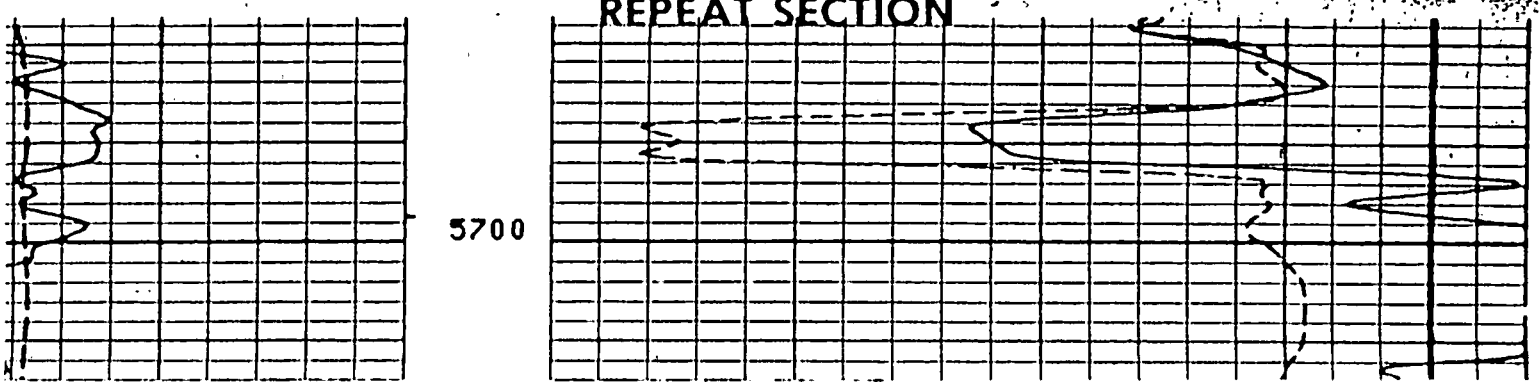
NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
HC		CALI	PSNR		2.235	BS	INCH	7.875
MDEN	G/C3	2.710	FD	G/C3	1.100	MATR		LIME
BHF		WATE						
DO		0.0	BHS		OPEN	FPHI		PHIX

CALI(IN)		TENS(LB)
0 26.00		10000. 0.0
CALI(IN)		DPHI( ) LIMESTONE
0 16.00		0.3000 -0.100
GR (GAPI)		NPHI( ) LIMESTONE
100.0		0.3000 -0.100

FILE

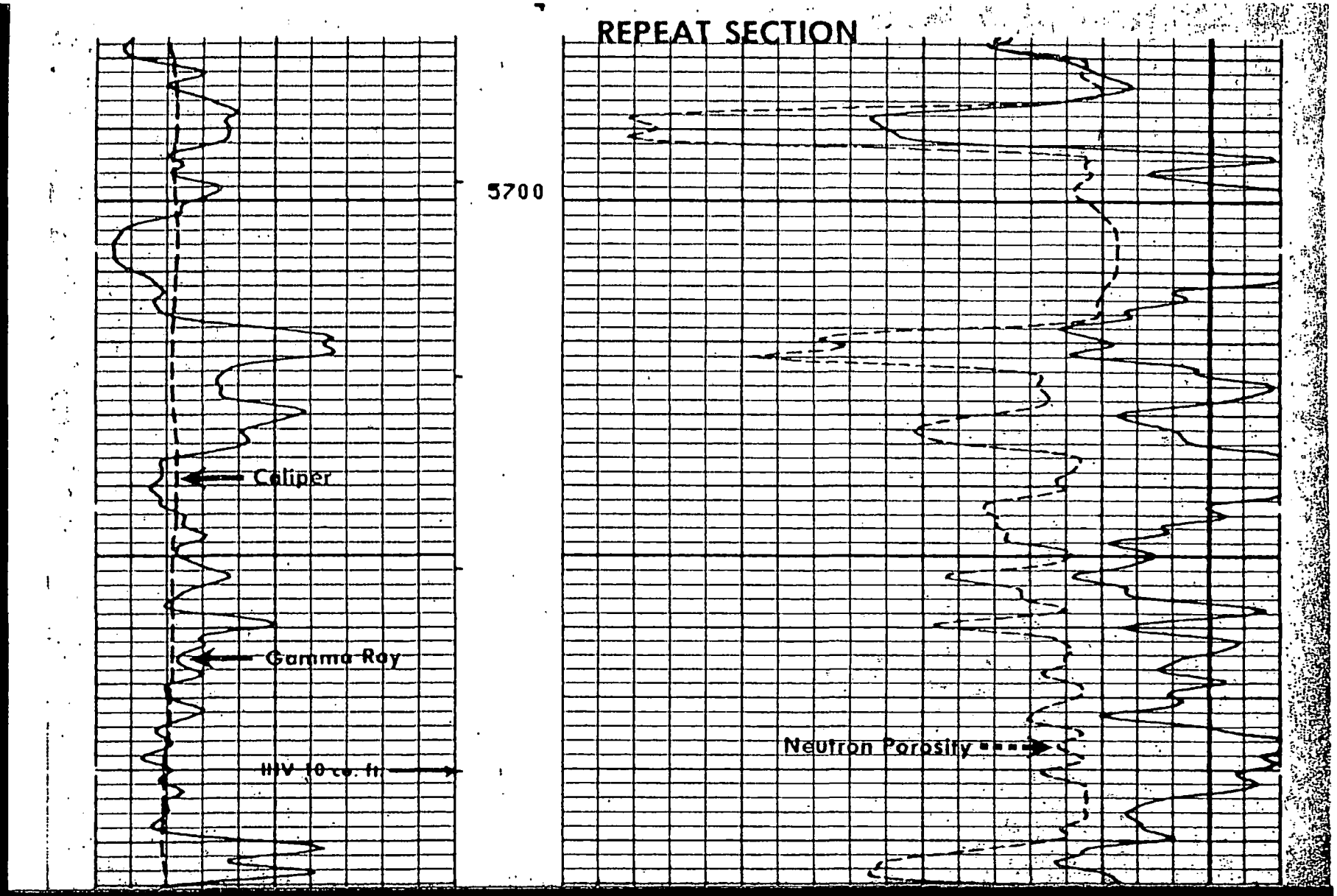
4

REPEAT SECTION

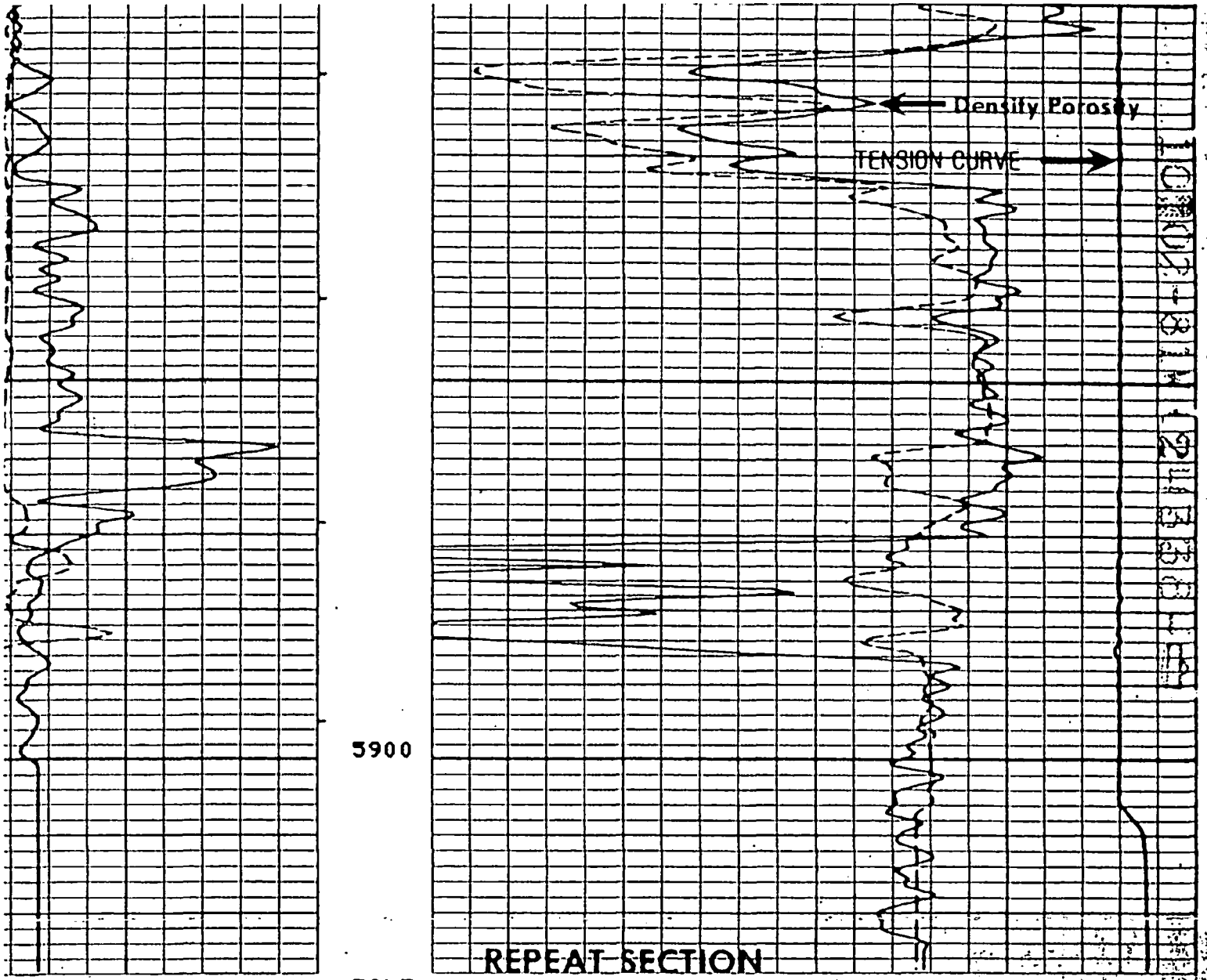


5700

MAR02-0967


REPEAT SECTION
5700
Caliper
Gamma Ray
HV 10 cu. ft
Neutron Porosity

MAR02-0968



FILE

4

CALI(IN)		TENS(LB)	
10 26.00		10000.	0.0
CALI(IN)		DPHI( ) LIMESTONE	
10 16.00		0.3000	-0.100
GR (GAPI)		NPHI( ) LIMESTONE	
100. 0		0.3000	-0.100

MAR02-0969

REPEAT SECTION

FILE

4

CALI(IN)			TENS(LB)
16.00	26.00		10000. 0.0
CALI(IN)		DPHI( ) LIMESTONE	
6.000	16.00	0.3000	-0.100
GR (GAPI)		NPHI( ) LIMESTONE	
0.0	100.0	0.3000	-0.100

PARAMETERS

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
HC		CALI	PSNR		2.235	BS	INCH	7.875
MDEN	G/C3	2.710	FD	G/C3	1.100	MATR		LIME
BHF		WATE						
DO		0.0	BHS		OPEN	FPHI		PHIX

PARAMETERS

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE

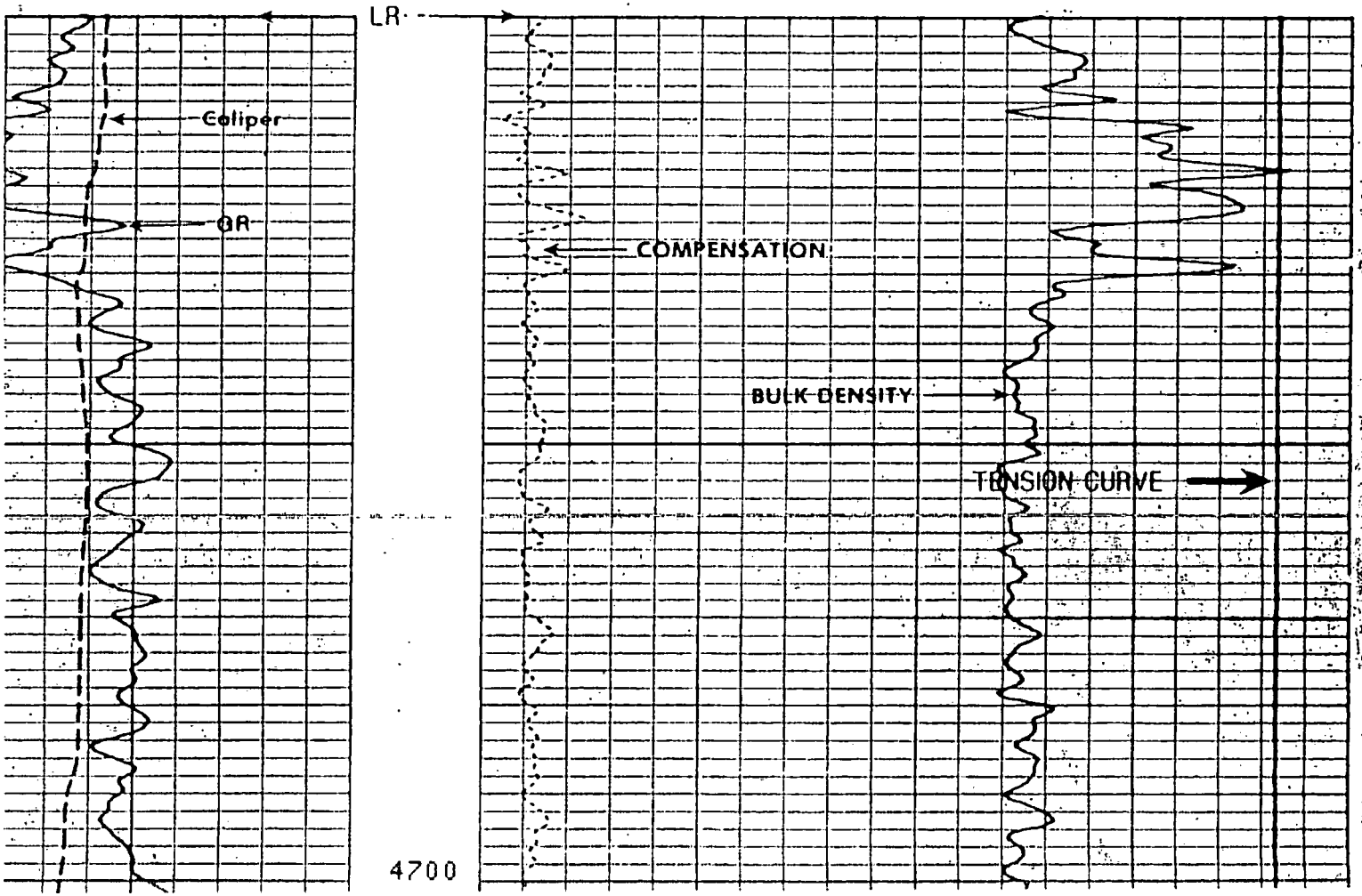
MAR02-0970

1C		CALI		PSNR		2.235	BS	INCH	7.875
1DEN	G/C3	2.710		FD	G/C3	1.100	MATR		LIME
3HF		WATE							
)D		0.0		BHS		OPEN	FPHI		PHIX

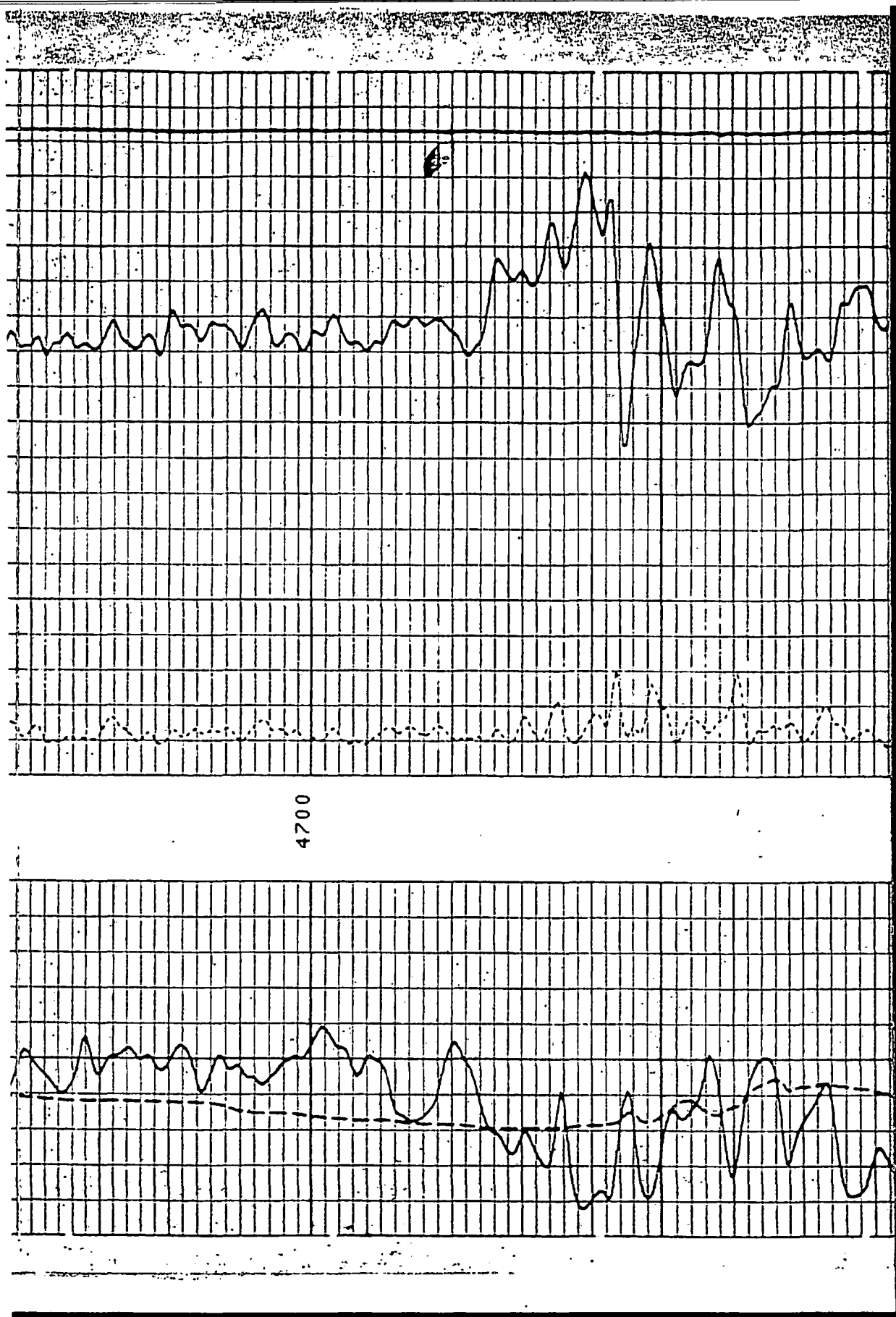
CALI(IN)			
10 26.00			
CALI(IN)		DRHO(G/C3)	TENS(LB)
10 16.00		-0.050 0.4500	10000. 0.0
GR (GAPI)		RHOB(G/C3)	
200.0		2.000	3.000

FILE

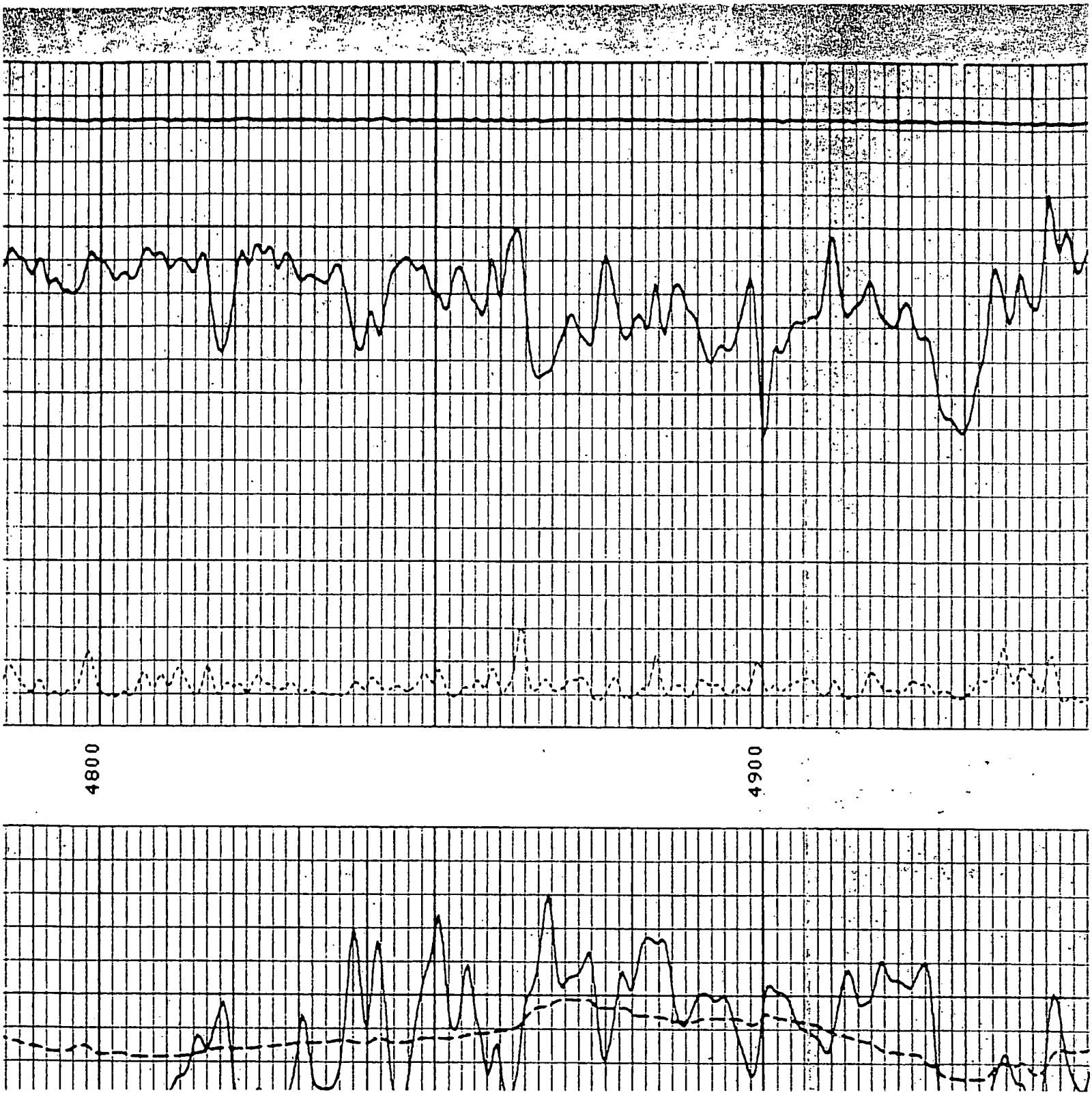
5



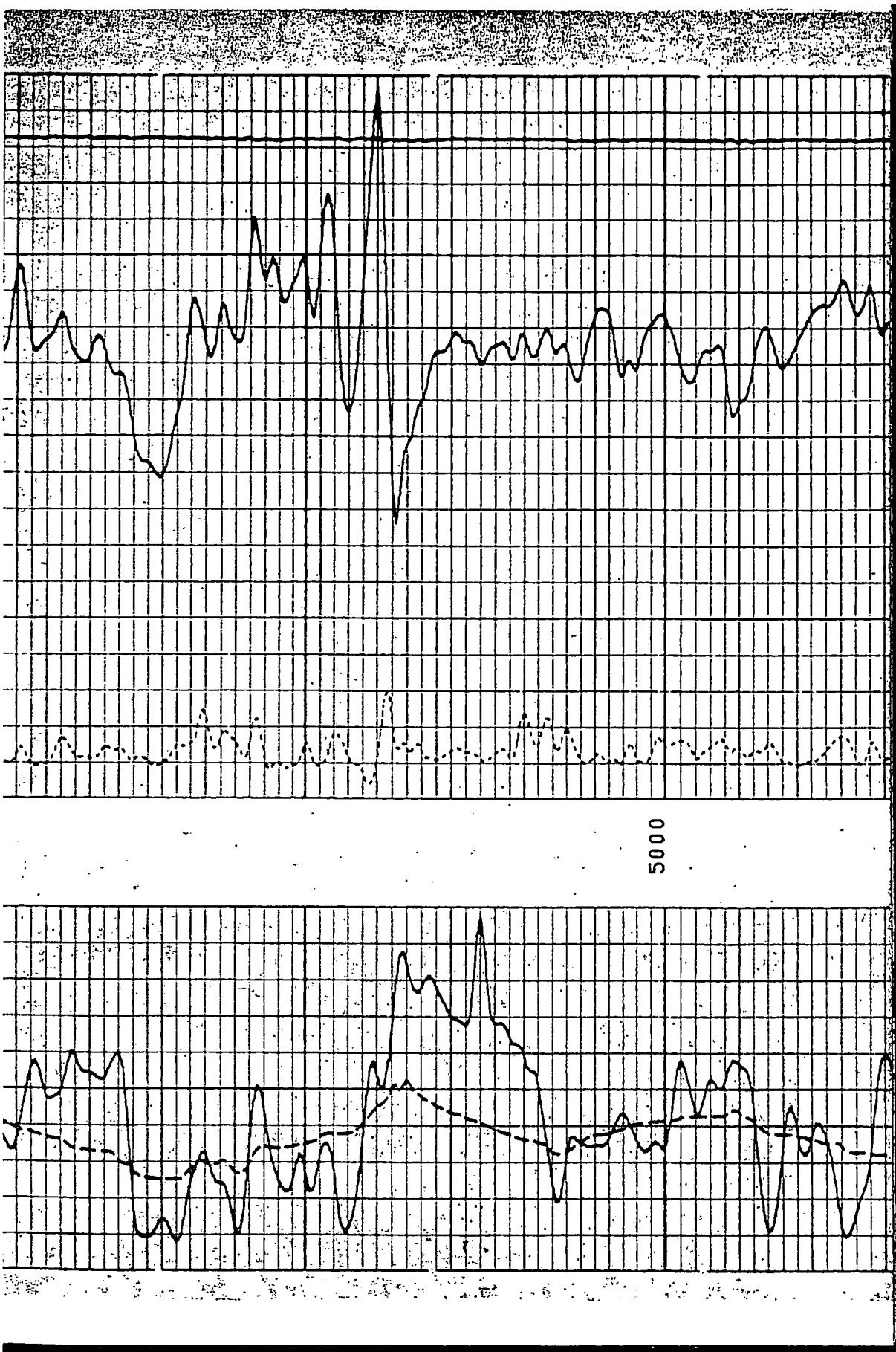
MAR02-0971



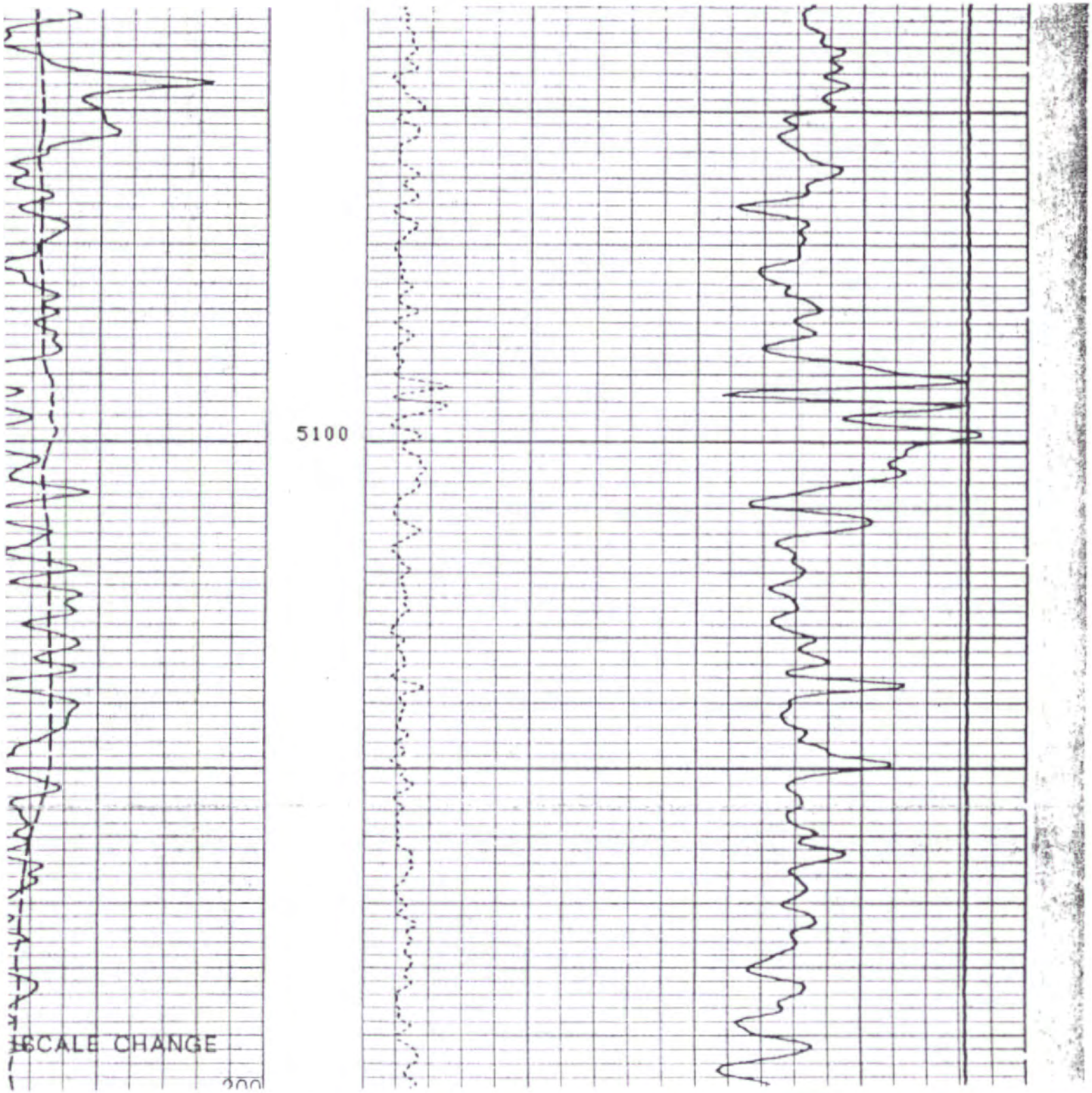
MAR02-0972



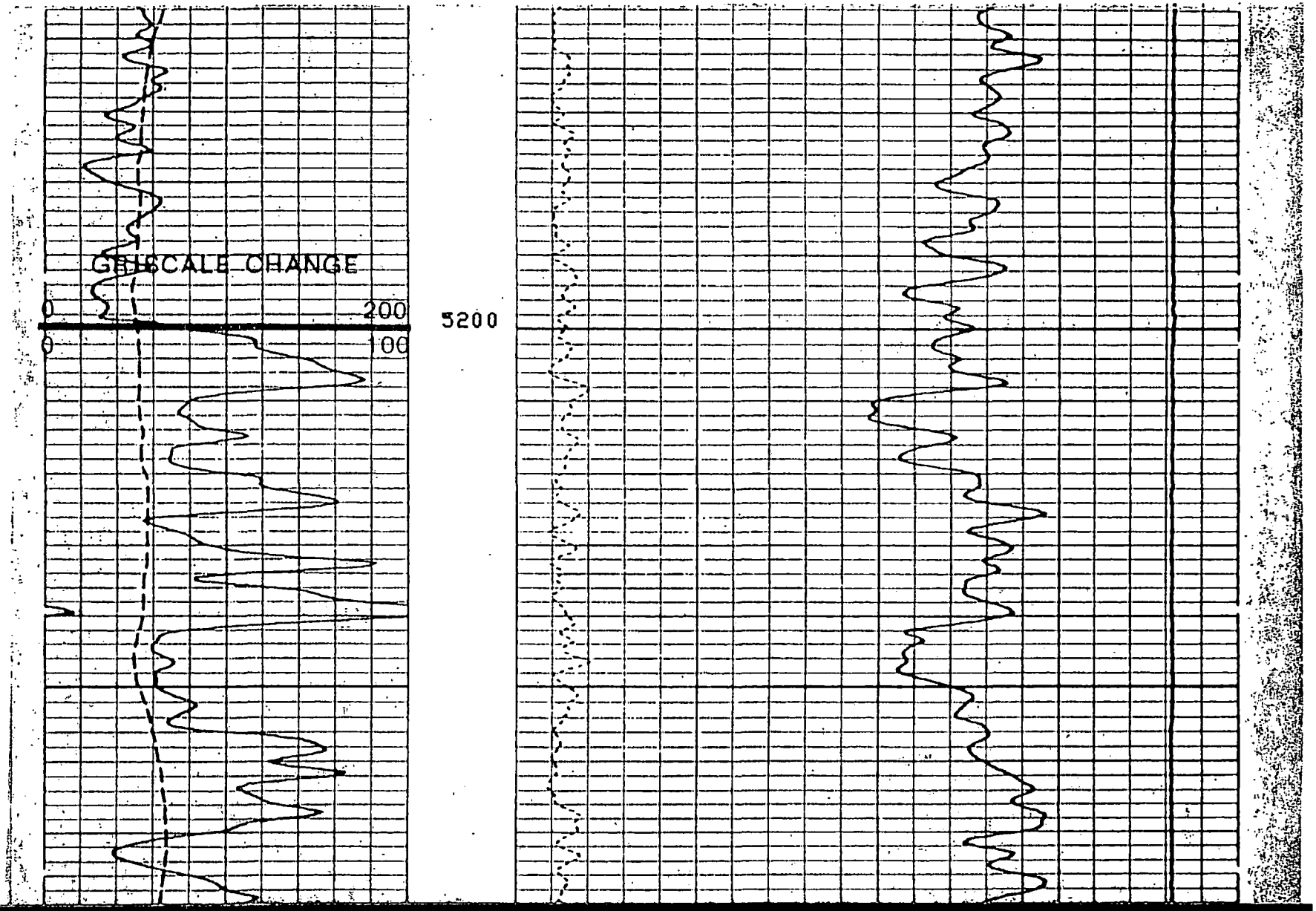
MAR02-0973



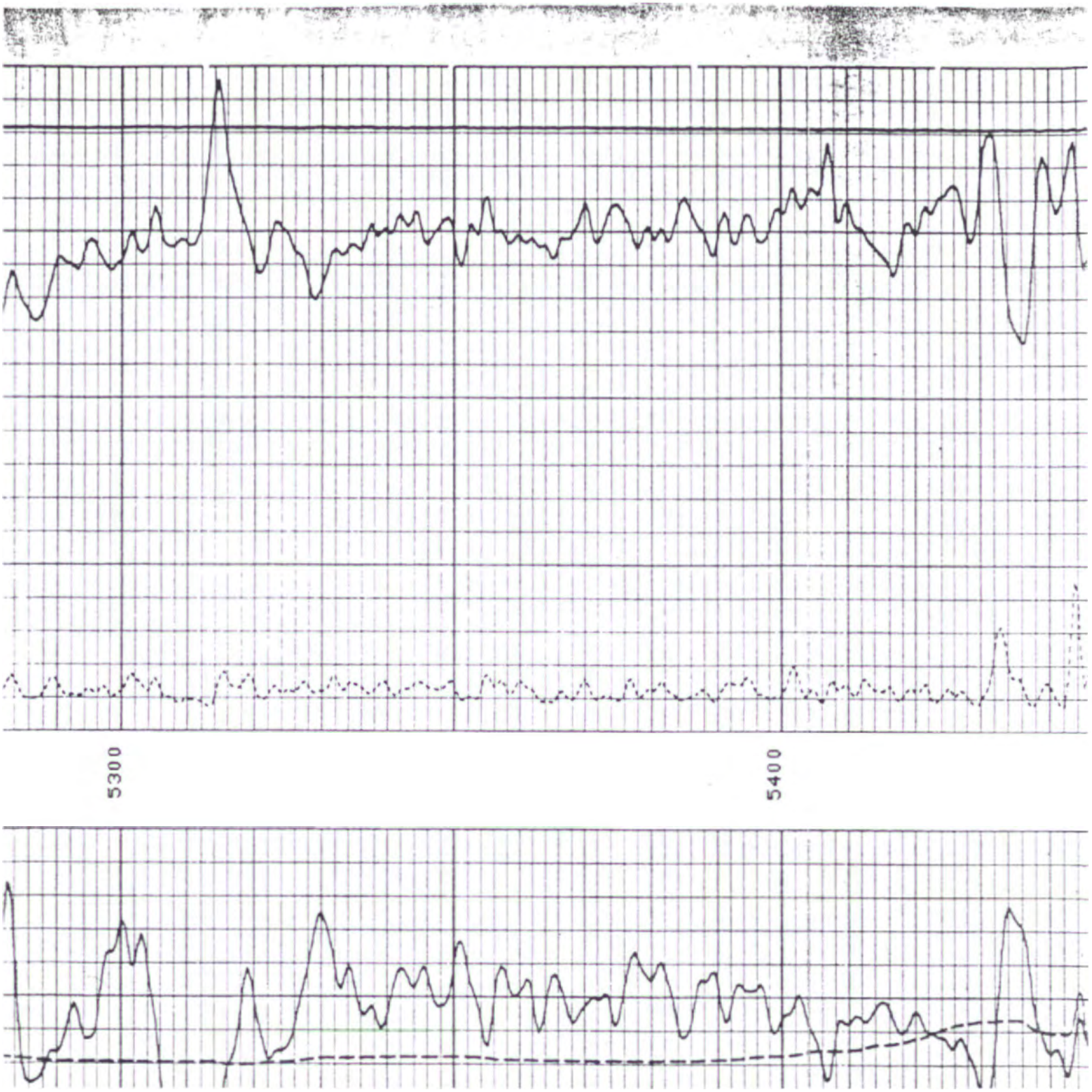
MAR02-0974



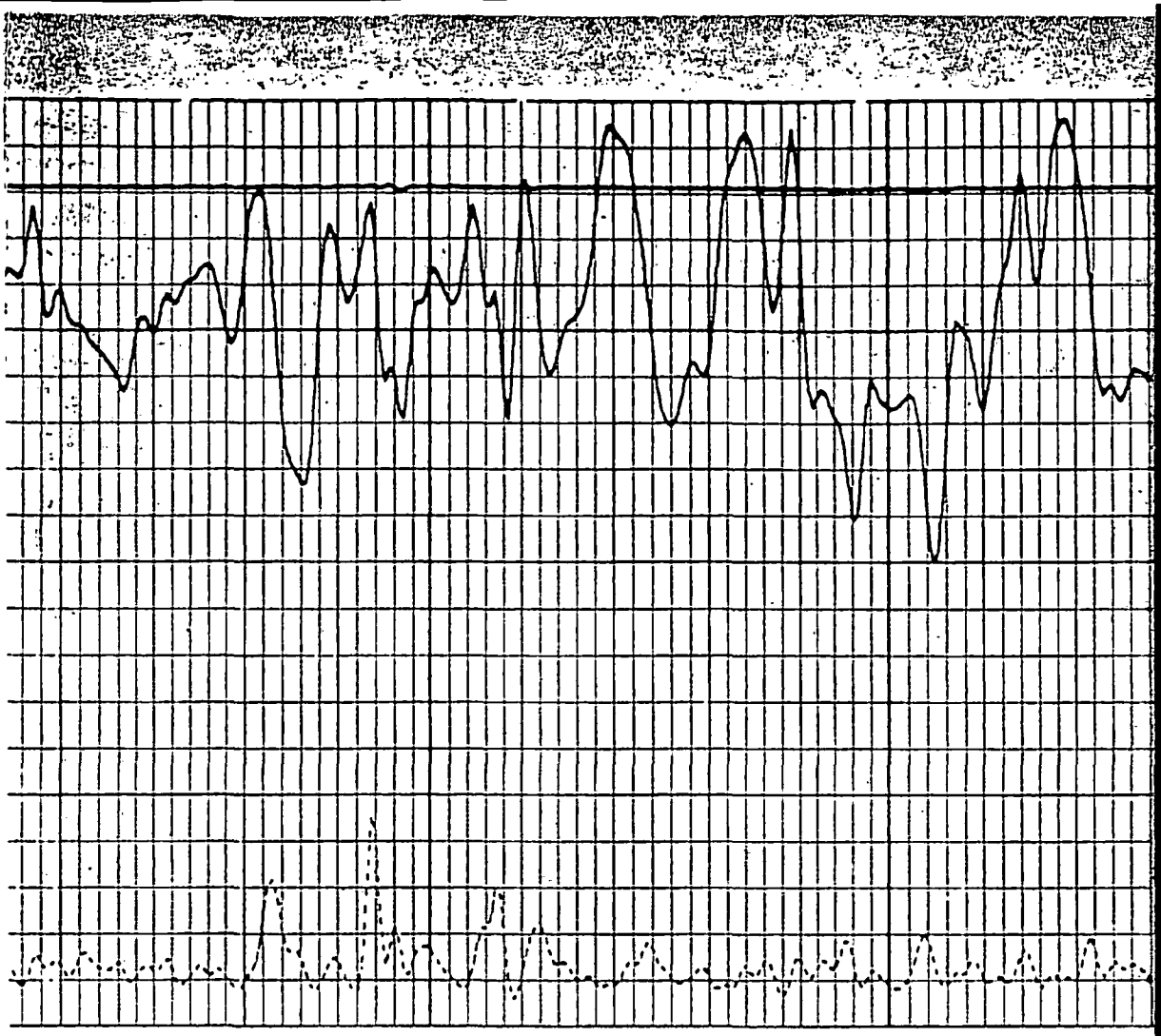
MAR02-0975



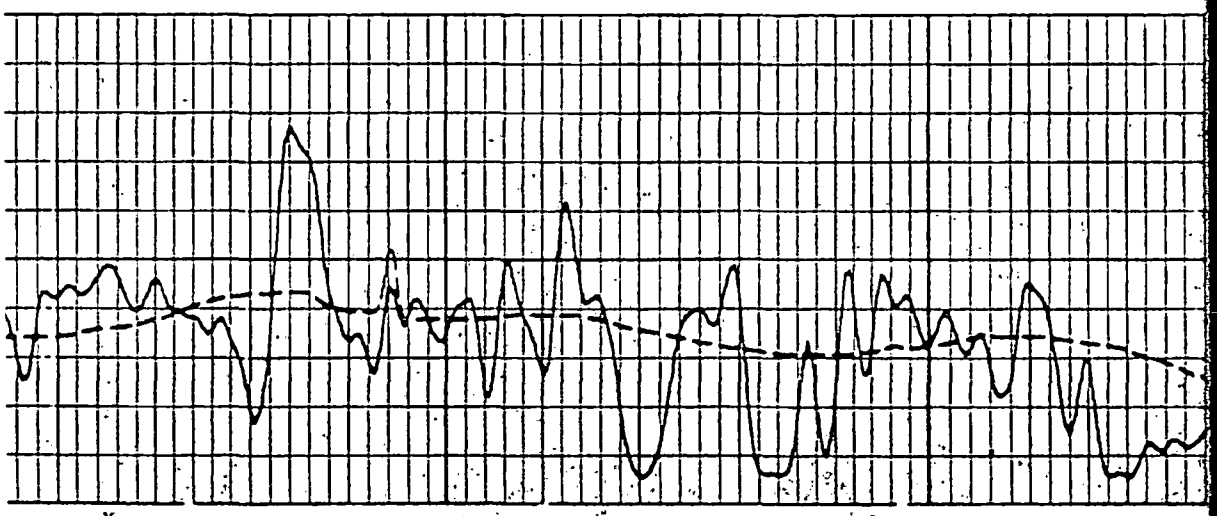
MAR02-0976



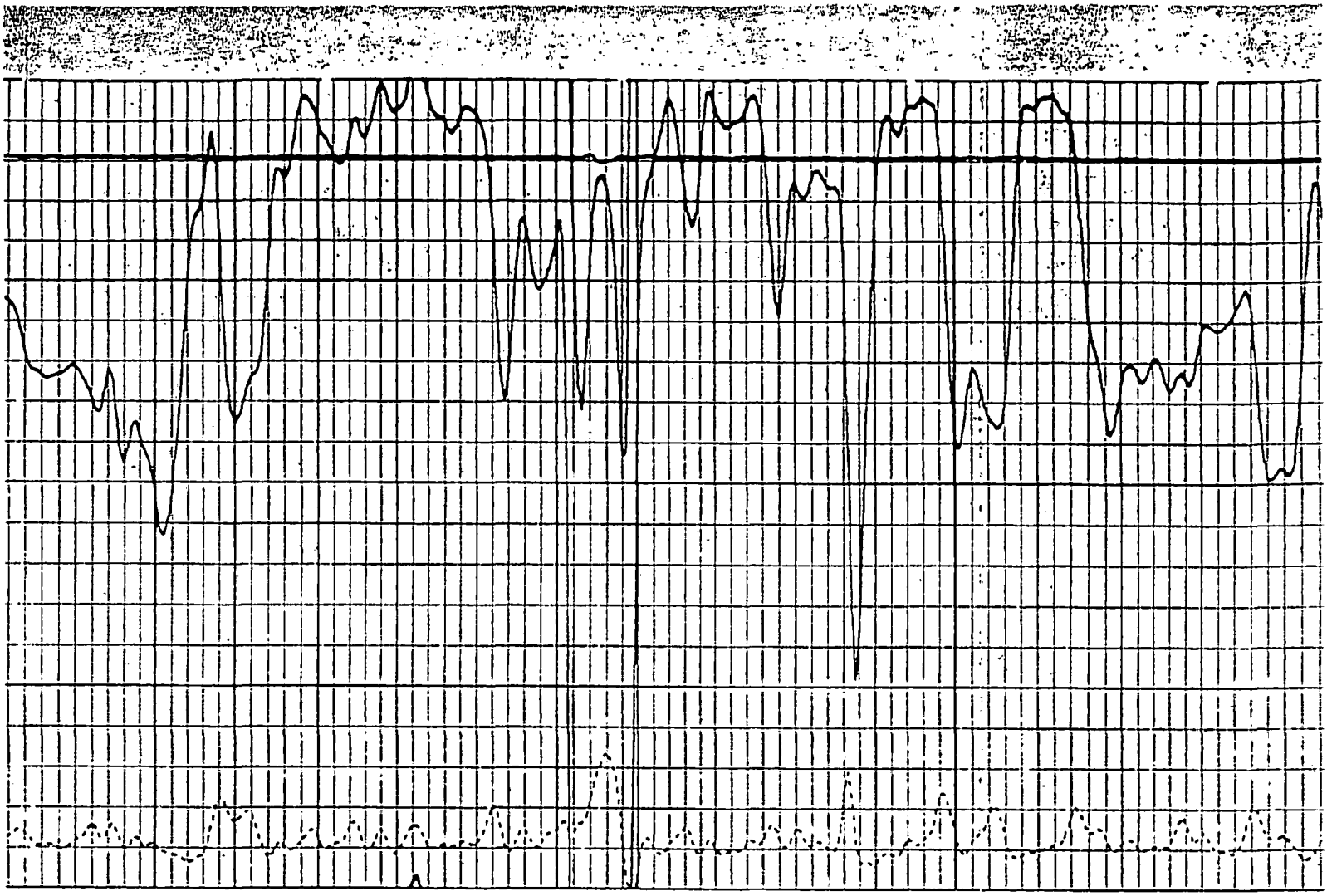
MAR02-0977



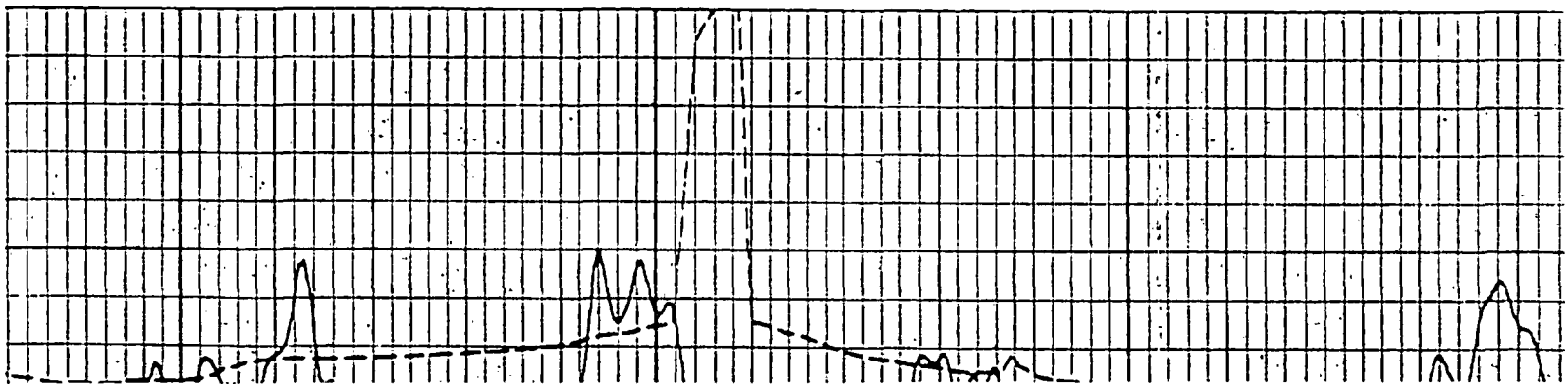
5500



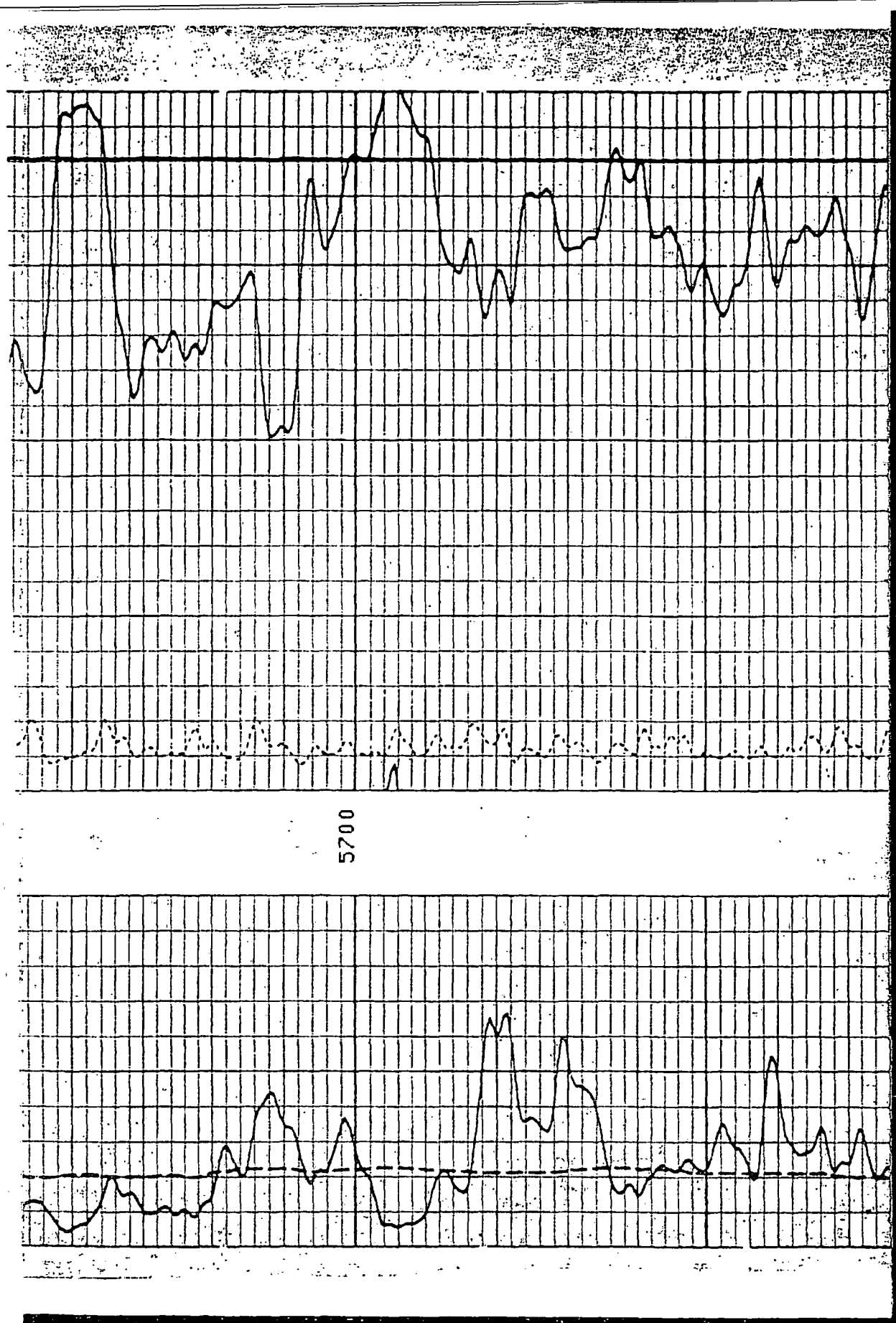
MAR02-0978



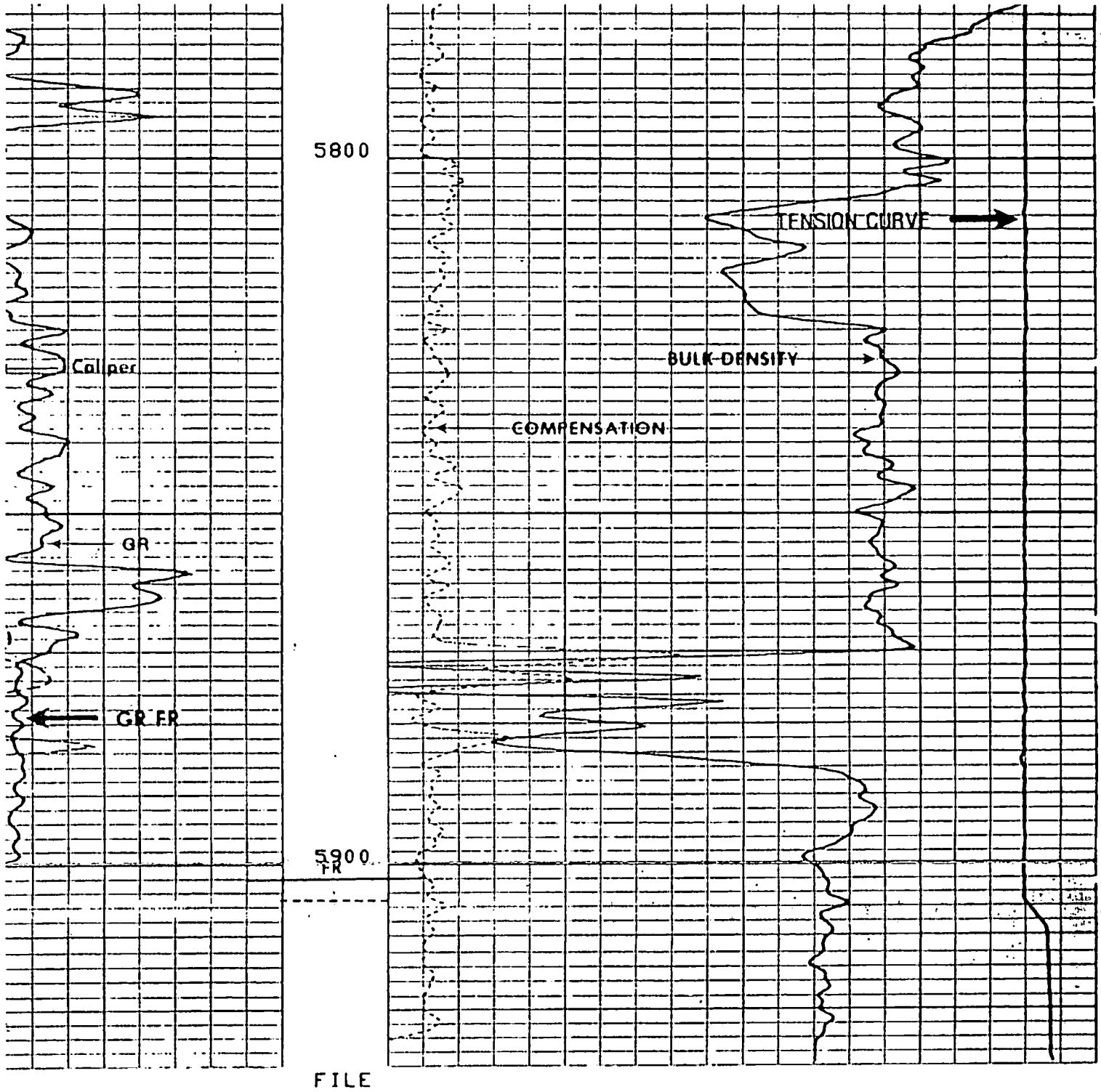
5600



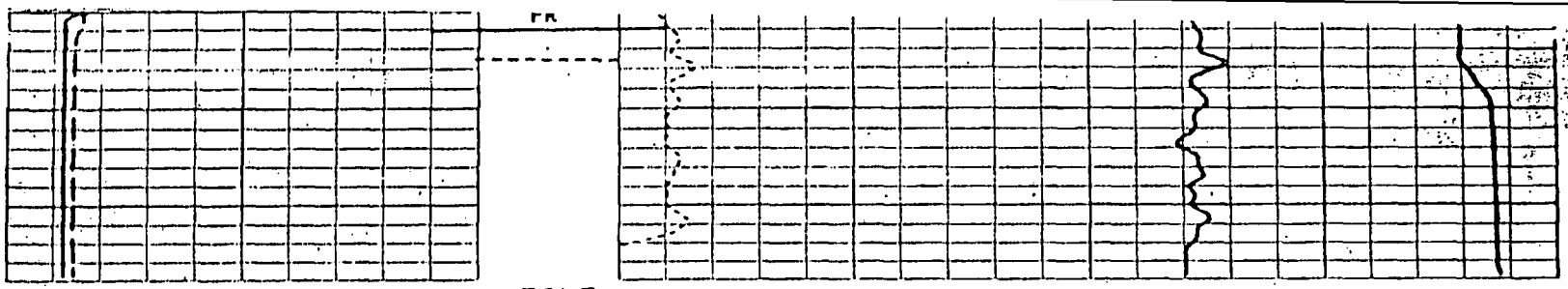
MAR02-0979



MAR02-0980


5800
TENSION CURVE
Caliper
BULK DENSITY
COMPENSATION
GR
GR FR
5900
FR
FILE

MAR02-0981



FILE

5

CALI(IN)		DRHO(G/C3)	TENS(LB)
16.00 26.00		-0.050 0.4500	10000. 0.0
CALI(IN)		RHOB(G/C3)	
6.000 16.00		2.000 3.000	
GR (GAPI)			
0.0 100.0			

PARAMETERS

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
HC		CALI	PSNR		2.235	BS	INCH	7.875
MDEN	G/C3	2.710	FD	G/C3	1.100	MATR		LIME
BHF		WATE						
DO		0.0	BHS		OPEN	FPHI		PHIX

MAR02-0982

PARAMETERS

IAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
IC		CALI	PSNR		2.235	BS	INCH	7.875
IDEN	G/C3	2.710	FD	G/C3	1.100	MATR		LIME
HF		WATE						
D		0.0	BHS		OPEN	FPHI		PHIX

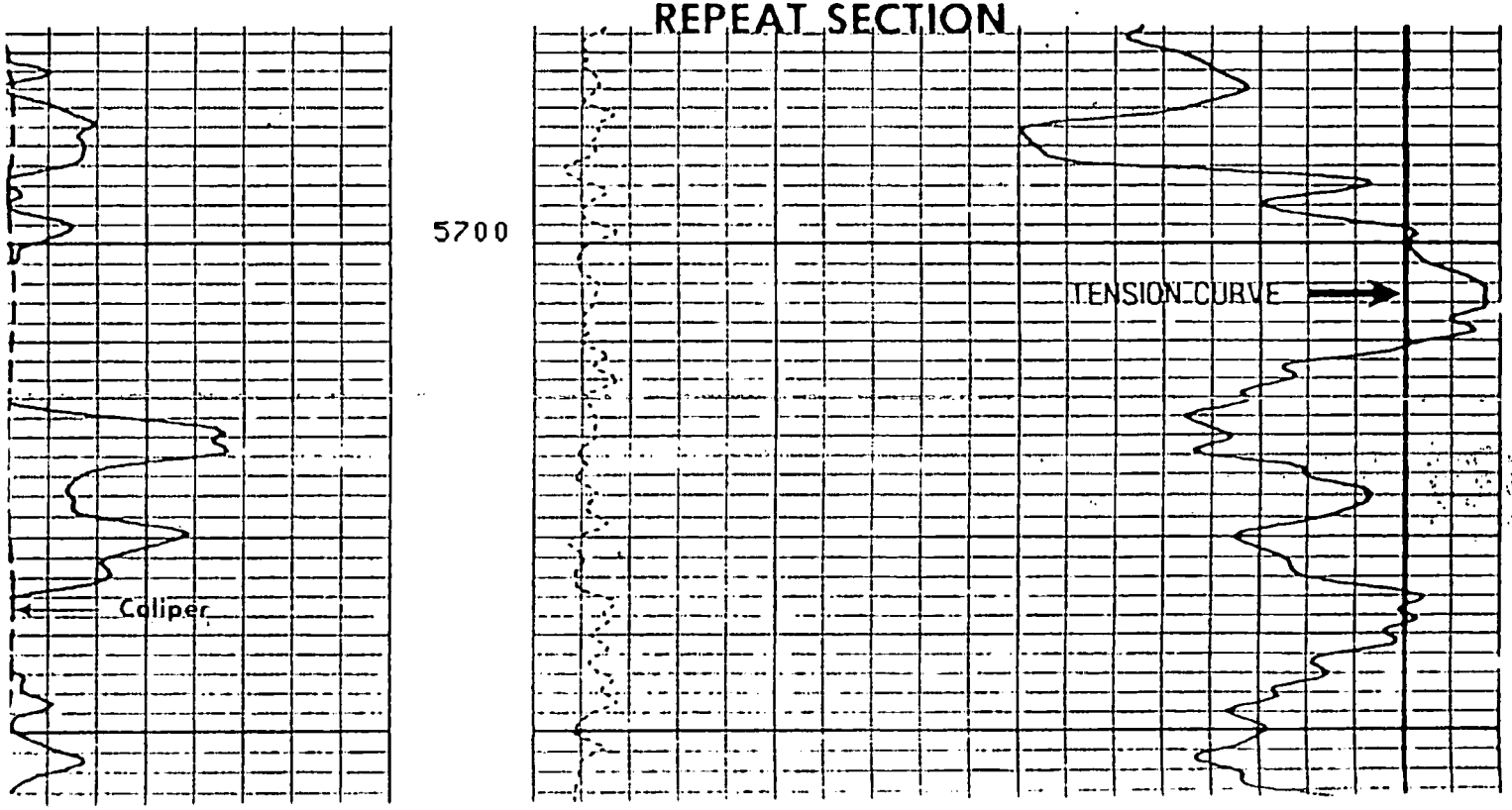
CALI(IN) 0 26.00			
CALI(IN) 0 16.00		DRHO(G/C3) -0.050 0.4500	TENS(LB) 10000. 0.0
GR (GAPI) 100.0		RHOB(G/C3) 2.000 3.000	

FILE

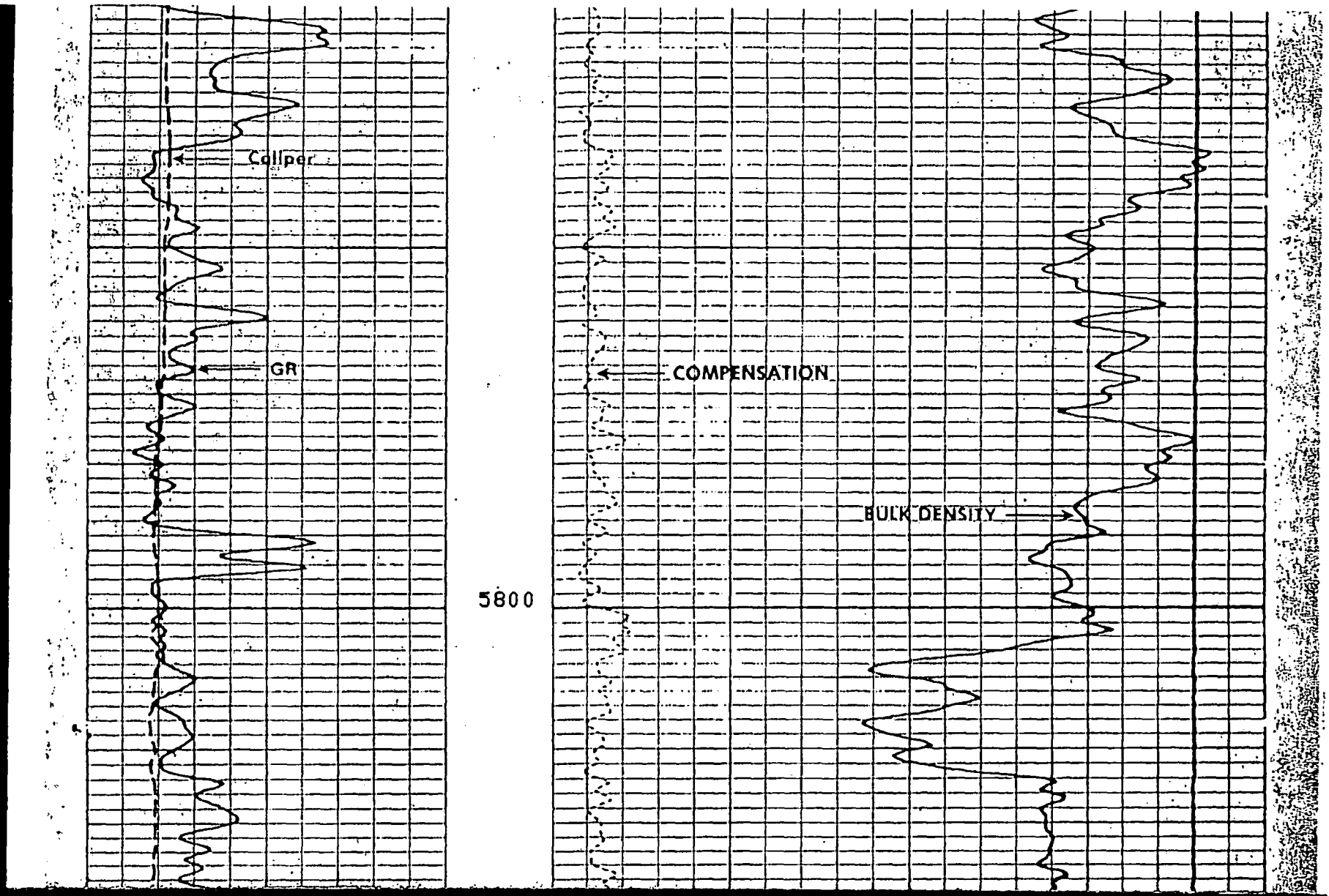
4

REPEAT SECTION

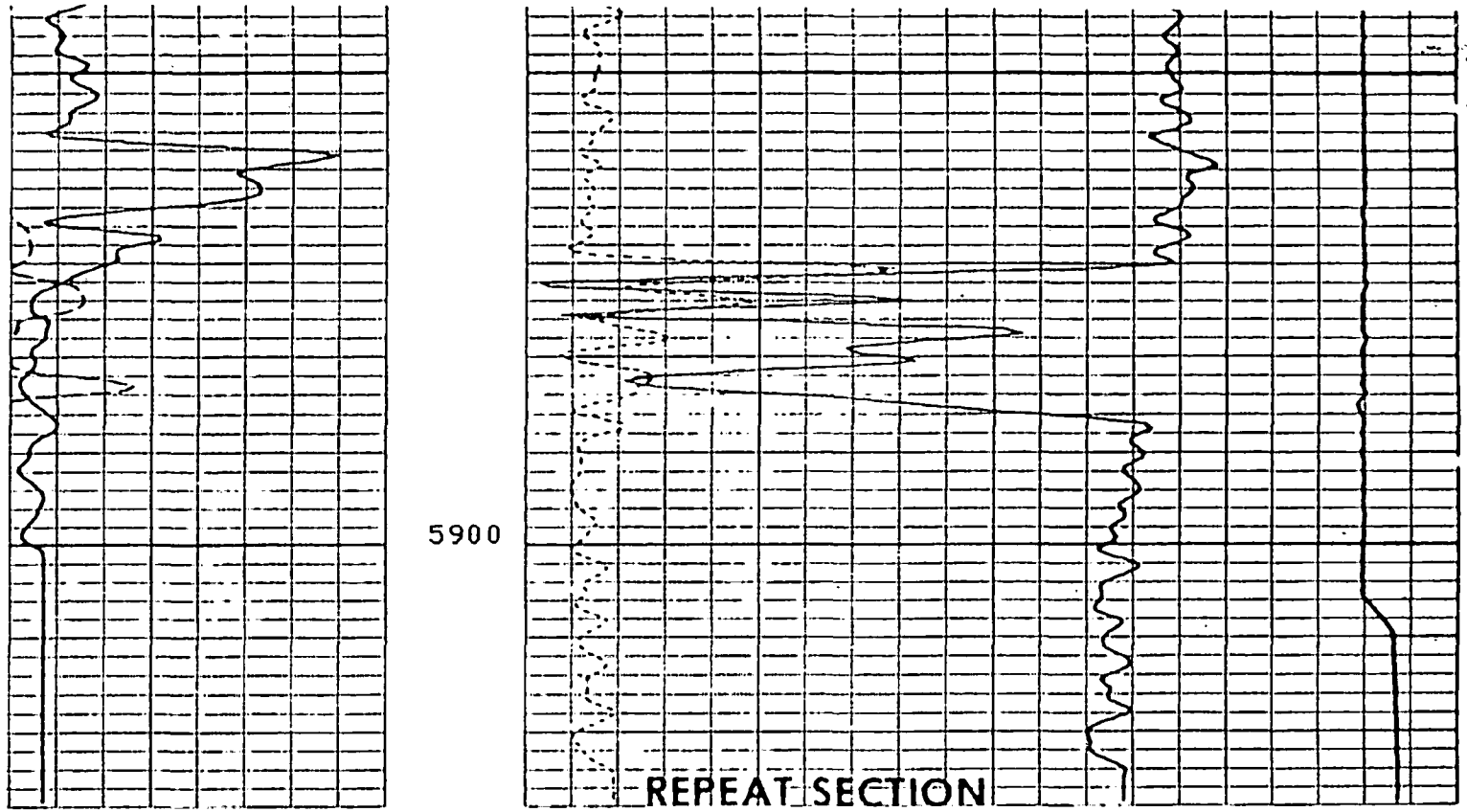
5700



MAR02-0983



MAR02-0984



FILE

4

CALI(IN)		
10 26.00		
CALI(IN)	DRHO(G/C3)	TENS(LB)
10 16.00	-0.050 0.4500	10000. 0.0
GR (GAPI)	RHOB(G/C3)	
100.0	2.000	3.000

PARAMETERS

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
IC		CALI	PSNR		2.235	BS	INCH	7.875
IDEN	G/C3	2.710	FD	G/C3	1.100	MATR		LIME
HF		WATE						
D		0.0	BHS		OPEN	FPHI		PHIX

MAR02-0985

PARAMETERS

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
HC		CALI	PSNR		2.235	BS	INCH	7.875
MDEN	G/C3	2.710	FD	G/C3	1.100	MATR		LIME
BHF		WATE						
DO		0.0	BHS		OPEN	FPHI		PHIX

BEFORE SURVEY CALIBRATION SUMMARY

PERFORMED: 81/08/22
PROGRAM FILE: PGT (VERSION 18.2 81/04/25)

SGTE DETECTOR CALIBRATION SUMMARY

	MEASURED BKGD	MEASURED JIG	CALIBRATED	UNITS
GR	32	194	165	GAPI

CNTA DETECTOR CALIBRATION SUMMARY

	TANK INPUT	TANK CALIBRATED	JIG MEASURED	JIG CALIBRATED
NRAT	2.235	2.158	2.281	2.203

MAR02-0986

PGTK DETECTOR CALIBRATION SUMMARY

	BLOCK INPUT	BLOCK CALIBRATED	JIG MEASURED	JIG CALIBRATED	UNITS
FFDC	776	337	783	340	CPS
NFDC	958	528	960	529	CPS

PGTK CALIPER CALIBRATION SUMMARY

	MEASURED SMALL	MEASURED LARGE	CALIBRATED SMALL	CALIBRATED LARGE	UNITS
CALI	11.0	14.7	8.0	12.0	IN

FILE

2

SHOP SUMMARY

PERFORMED: 81/07/30
PROGRAM FILE: SHOP (VERSION 18.2 81/04/17)

CNTA DETECTOR CALIBRATION SUMMARY

	TANK MEASURED	TANK CALIBRATED	JIG MEASURED	JIG CALIBRATED
NRAT	2.235	2.158	2.238	2.161

(CNC:2296 , CNB:2411)

PGTK DETECTOR CALIBRATION SUMMARY

	BLOCK MEASURED	BLOCK CALIBRATED	JIG MEASURED	JIG CALIBRATED	UNITS
FFDC	776	337	774	335	CPS
NFDC	958	528	960	529	CPS

(PGS:H462 , PDH:M561 , GSR:6268 , SFT :513)

CALIBRATION RECORD

MAR02-0987

PGTK DETECTOR CALIBRATION SUMMARY

	BLOCK		JIG		
	MEASURED	CALIBRATED	MEASURED	CALIBRATED	UNITS
FFDC	776	337	774	335	CPS
NFDC	958	528	960	529	CPS

(PGS:H462 , PDH:M561 , GSR:6268 , SFT :513)

CALIBRATION RECORD

COMPANY TEXAS OIL AND GAS CORPORATION

WELL BUCKLE B NO.1

FIELD EAST POPLAR

COUNTY ROOSEVELT STATE MONTANA

SCHL. FR 5902
SCHL. TD 5905
DRLR TD 5920

Elev: KB 2119
DF ----
GL 2106

MAR02-0988

GEARHART

GAMMA-RAY CEMENT BOND LOG

FILING NO.

COMPANY TXO PRODUCTION CORPORATION

WELL BUCKLE B NO. 1

FIELD EAST POPLAR

COUNTY ROOSEVELT STATE MT

LOCATION PRODUCTION DEPT.

SEC [illegible] TWP 28N RGE 51E

OTHER SERVICES

PERMANENT DATUM G.L. ELEV 21[illegible]'

LOG MEASURED FROM K.B. 13 FT ABOVE PERM DATUM

DRILLING MEASURED FROM K.B.

ELEV K.B. 21[illegible]'

D.F. 211[illegible]'

G.L. 21[illegible]'

Date	9-16-81		
Run No.	ONE		
Type Log	CBL-G/R		
Depth-Driller			
Depth-Logger	5835'		
Bottom logged interval	5830'		
Top logged interval	3200'		
Type fluid in hole	SALT WATER		
Max rec. temp., deg. F.			
Operating rig time	2 HOURS		
Recorded by	B. OLSON		
Witnessed by	MR. W. DIER		

Bore-Hole Record				Tubing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To

Casing Record				Liner			
Size	Wgt	From	To	Size	Wgt.	From	To
4-1/2"		TD	SURFACE				

FORM 110-H

MAR-829

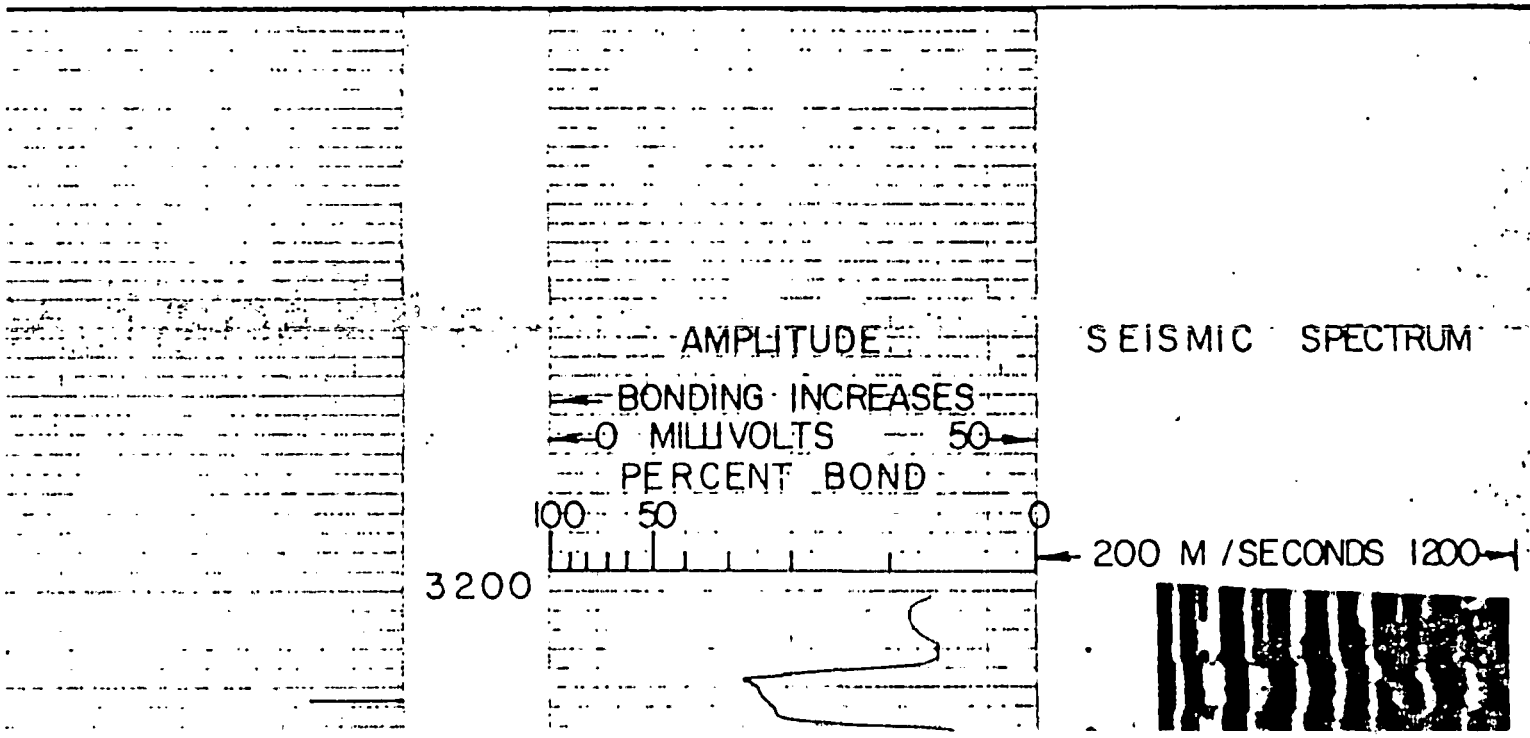
MAR02-0989

ICE: 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 interpretations, 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 one of our officers, agents or employees These interpretations are also subject to our General Terms and Conditions as set out in our current Price Schedule.
GEARHART INDUSTRIES, INC.

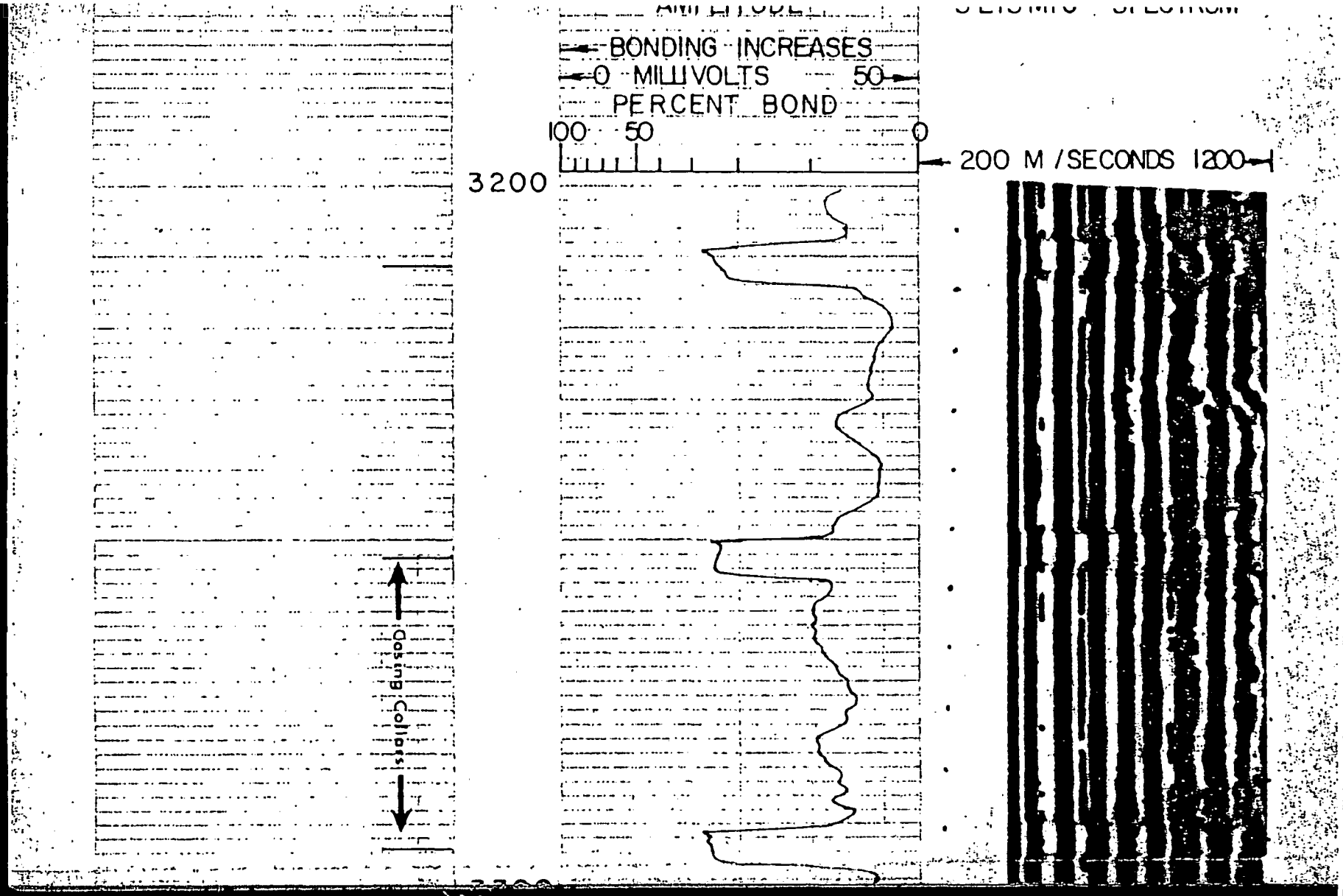
Gamma-Ray	ONE			Run No. Neutron			
ıdel No.	COMB.			Tool Serial No.			
ır	3-1/4"			Tool Model No. ; Type			
r Model No.	G-1			Diameter ; Spacing			
ɔe	GEIGER			Det. Mod. No. ; Type			
ıgth	18"			Source Type			
e to N. Source				Serial No.			
				Strength			

GENERAL			GAMMA-RAY					NEUTRON				
DEPTHS		Speed	T.C.	Cps.	Sens.	Zero	API GR	T.C.	Cps.	Sens.	Zero	API N.
)	FROM	Ft./Min.	Sec.	Setting	Settings	Div. L or R	Units Per Log Div.	Sec.	Setting	Settings	Div. L or R	Units Per Log Div.
00'	5830'	20	4	100	340		10					

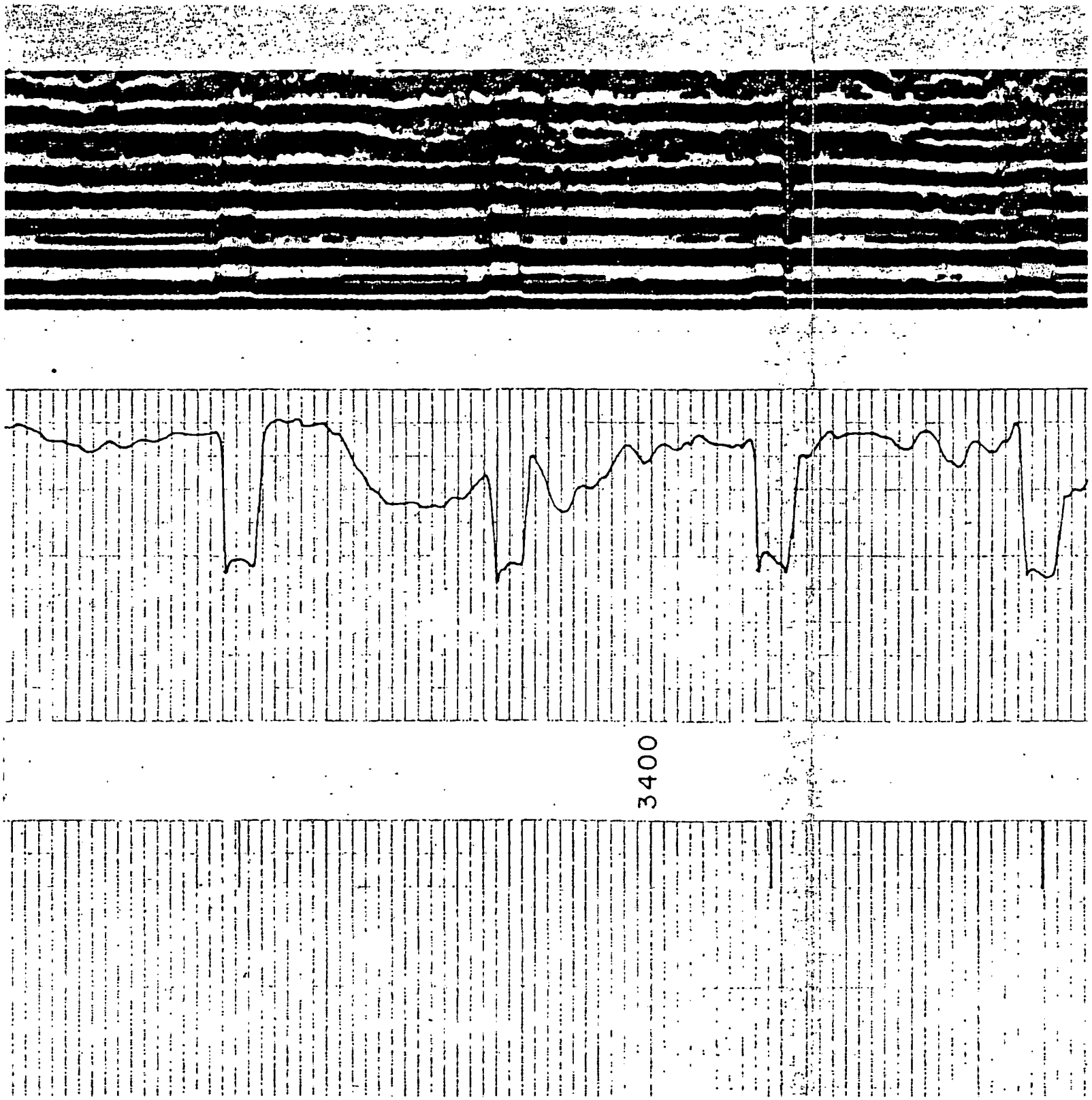
KS: PEN SPACING CHECK:
CCL TO CBL = 9'
C/R TO CBL = 5-1/2'



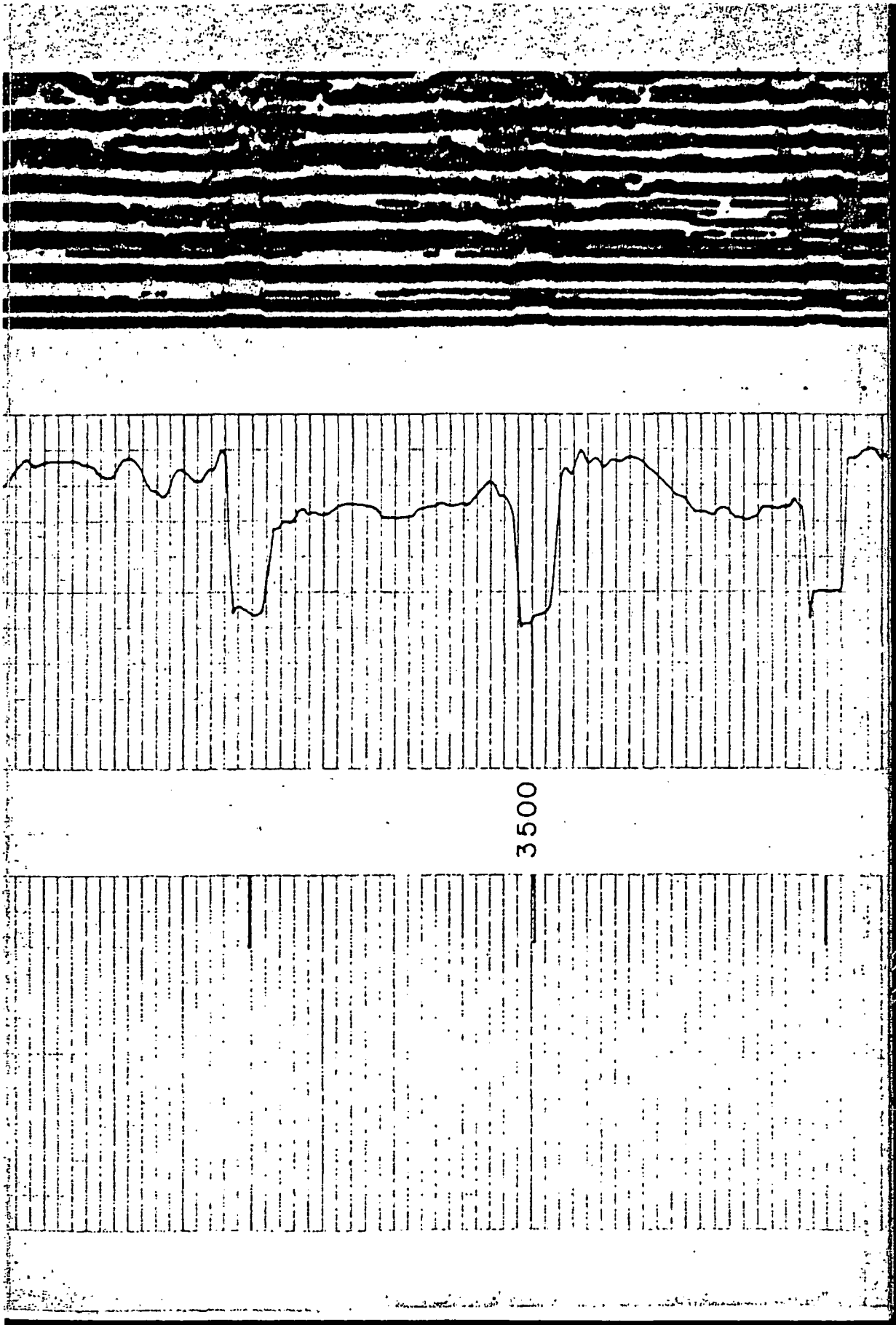
MAR02-0990


BONDING INCREASES
0 MILLIVOLTS 50
PERCENT BOND
100 50 0
200 M /SECONDS 1200
3200
Casing Collars

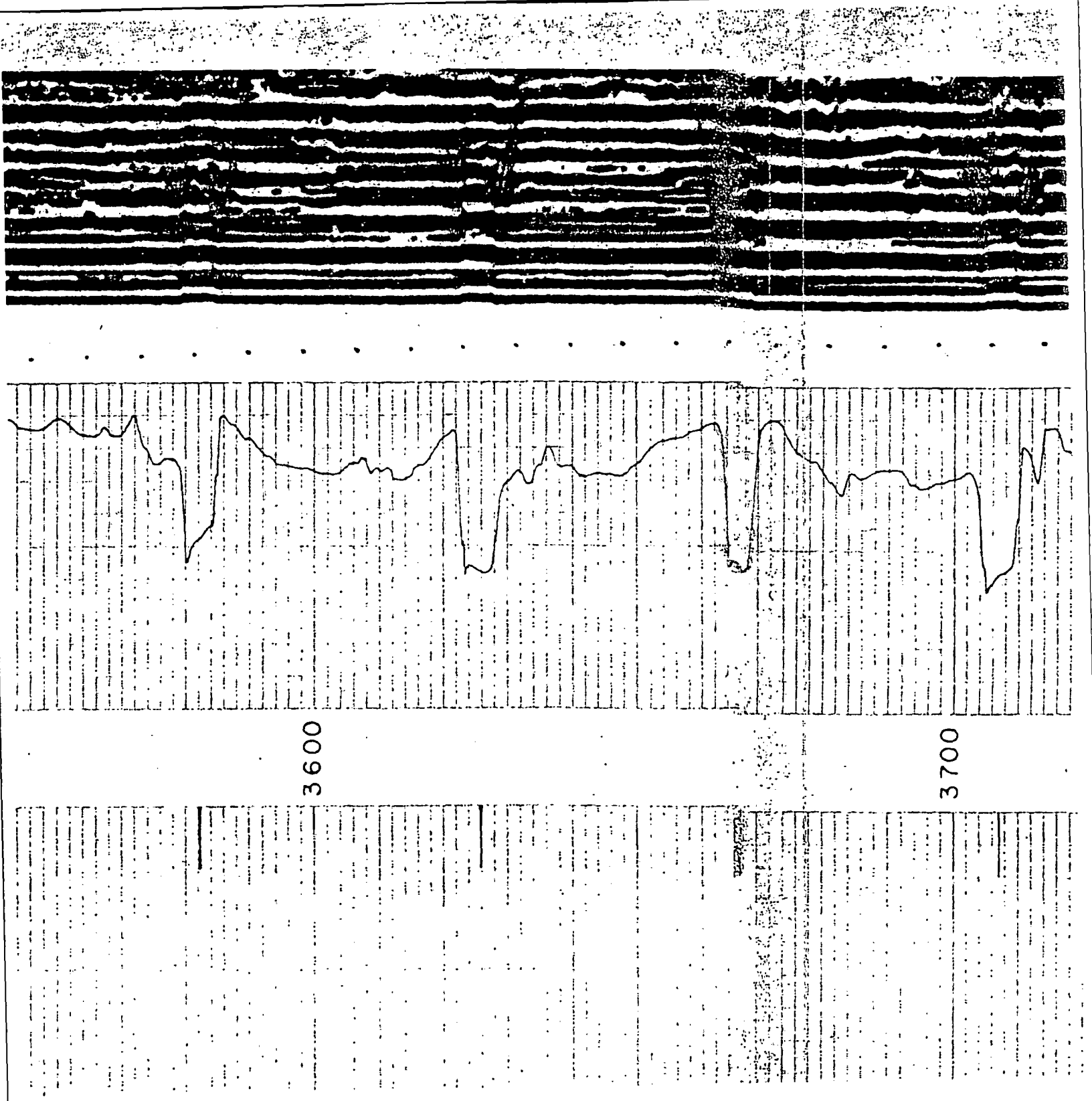
MAR02-0991



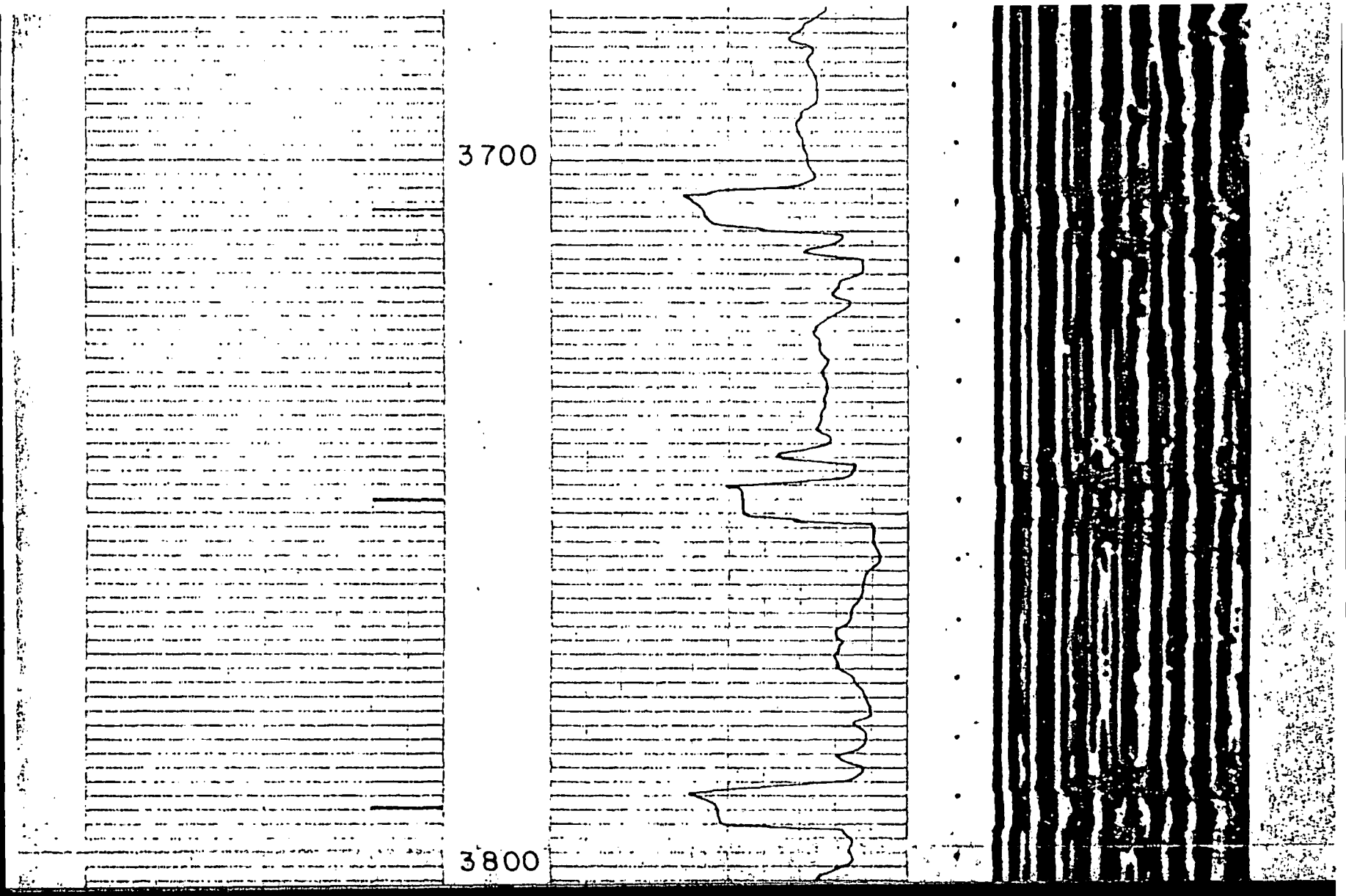
MAR02-0992



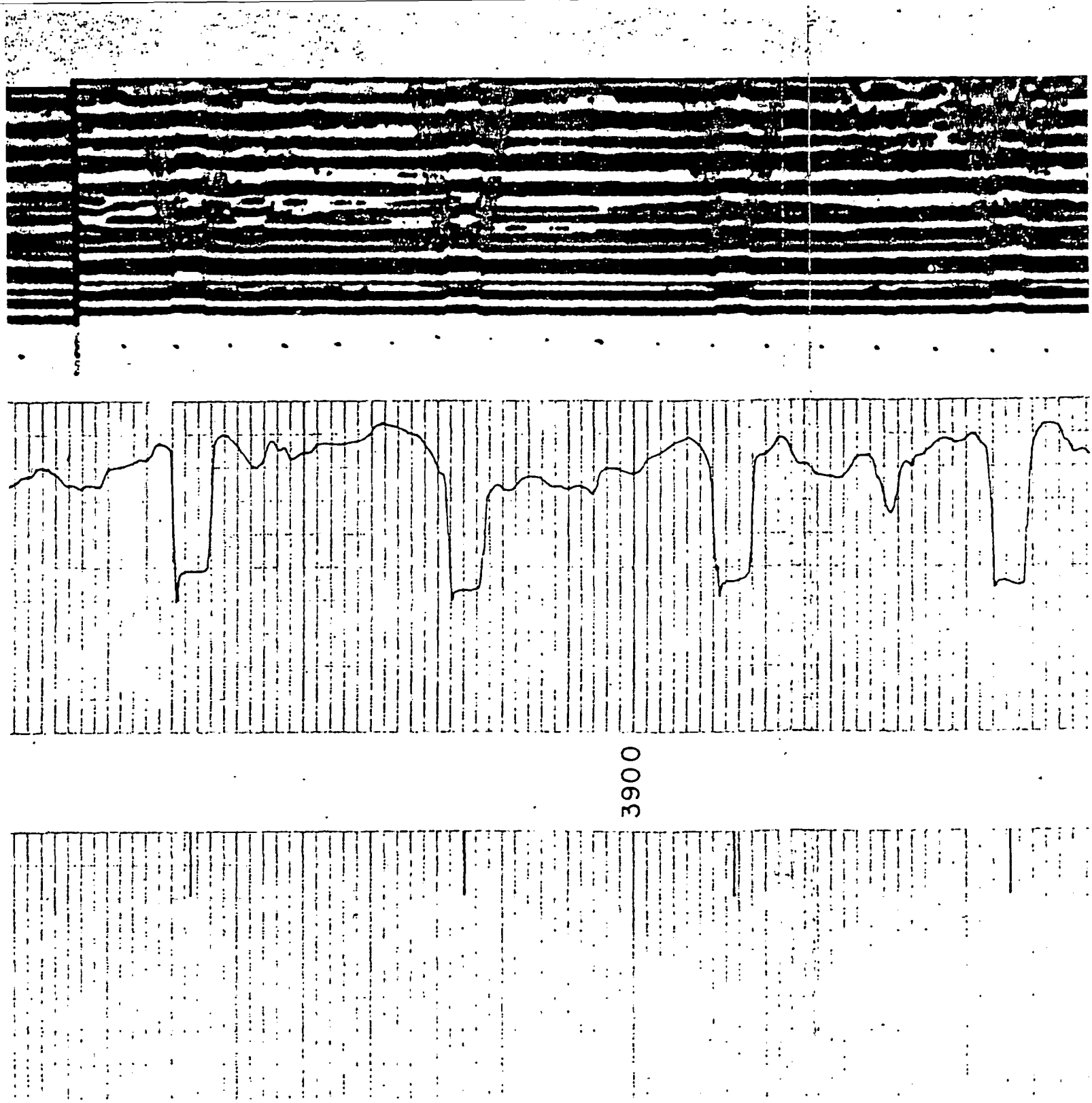
MAR02-0993



MAR02-0994



MAR02-0995



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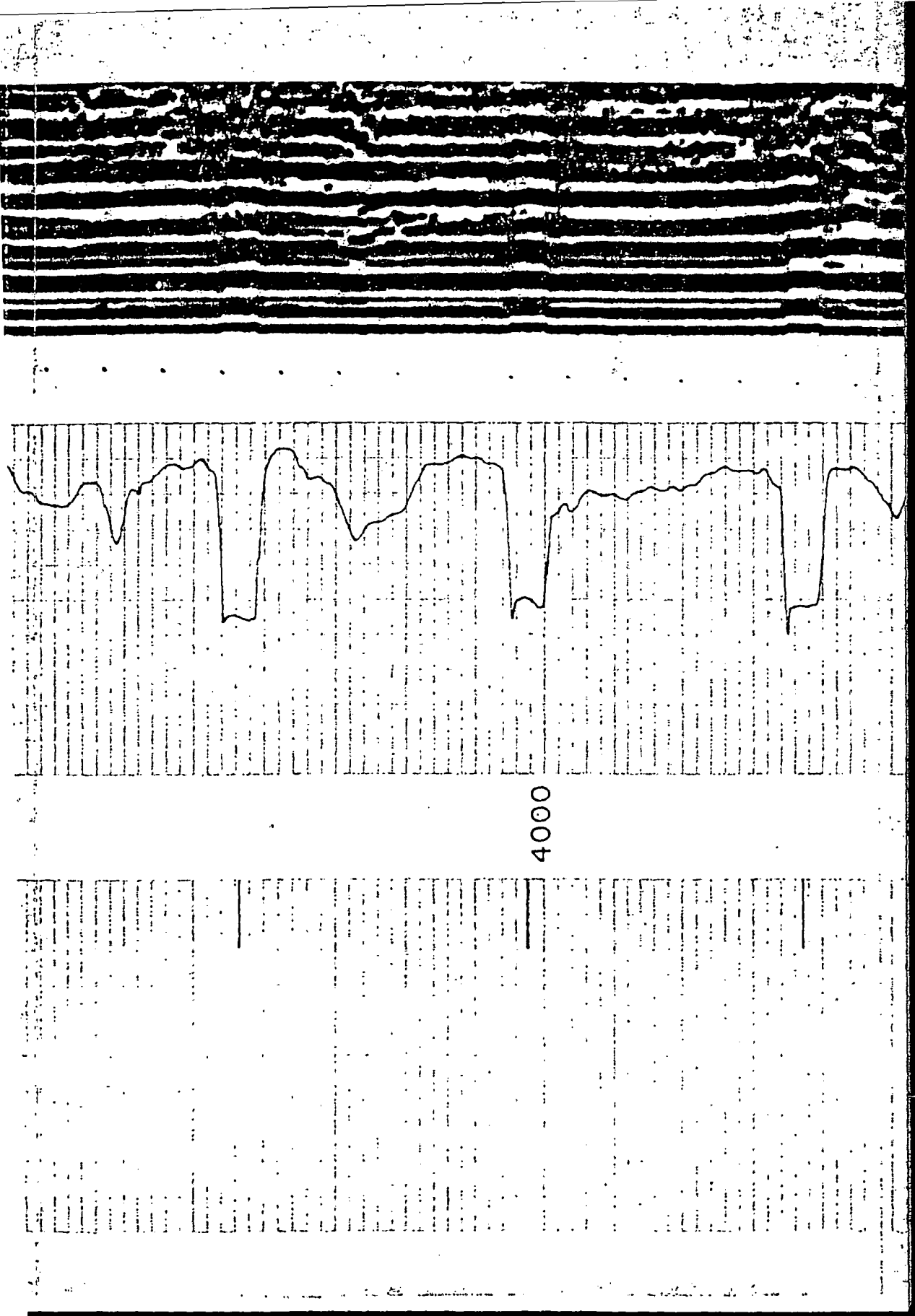
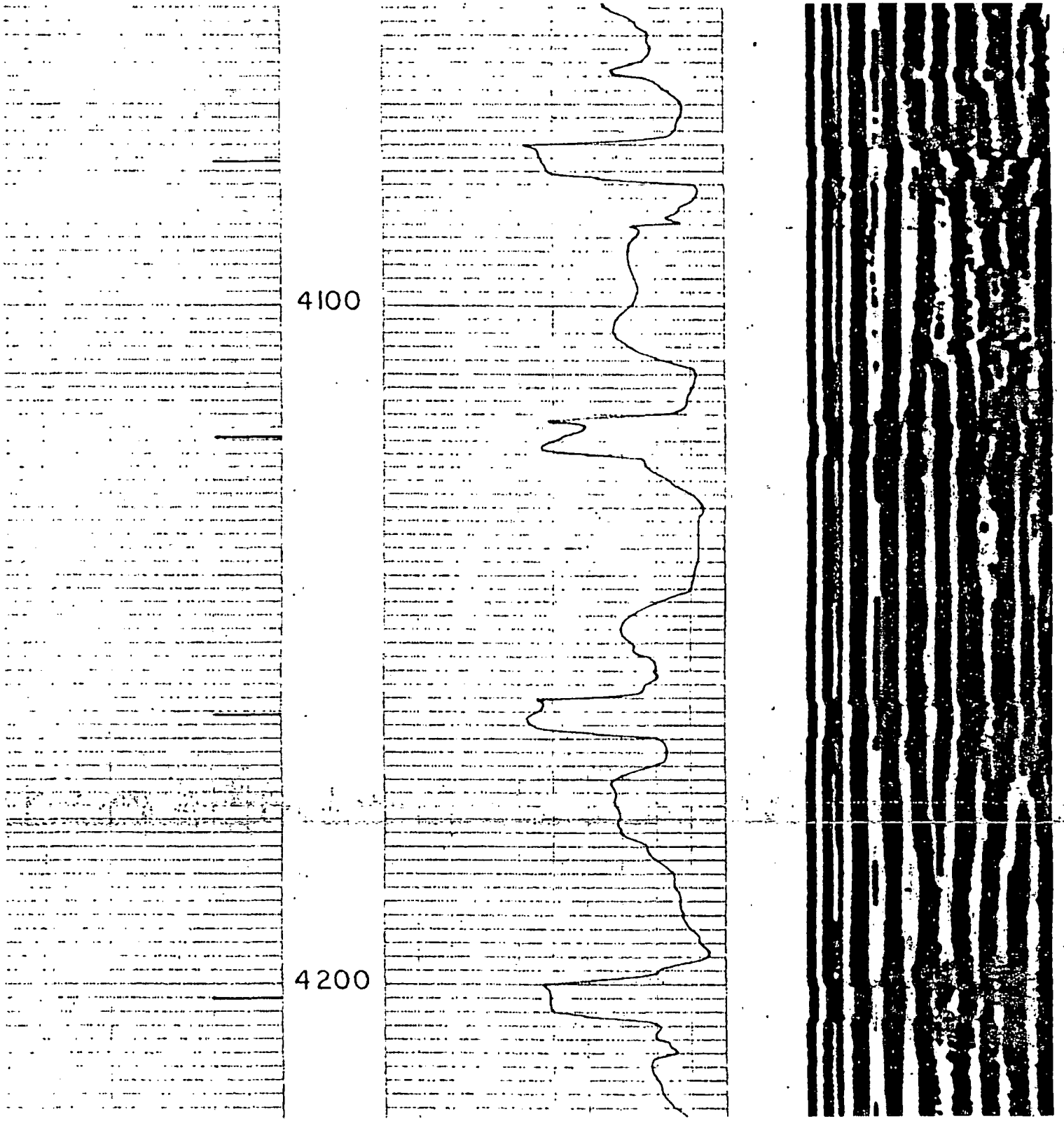
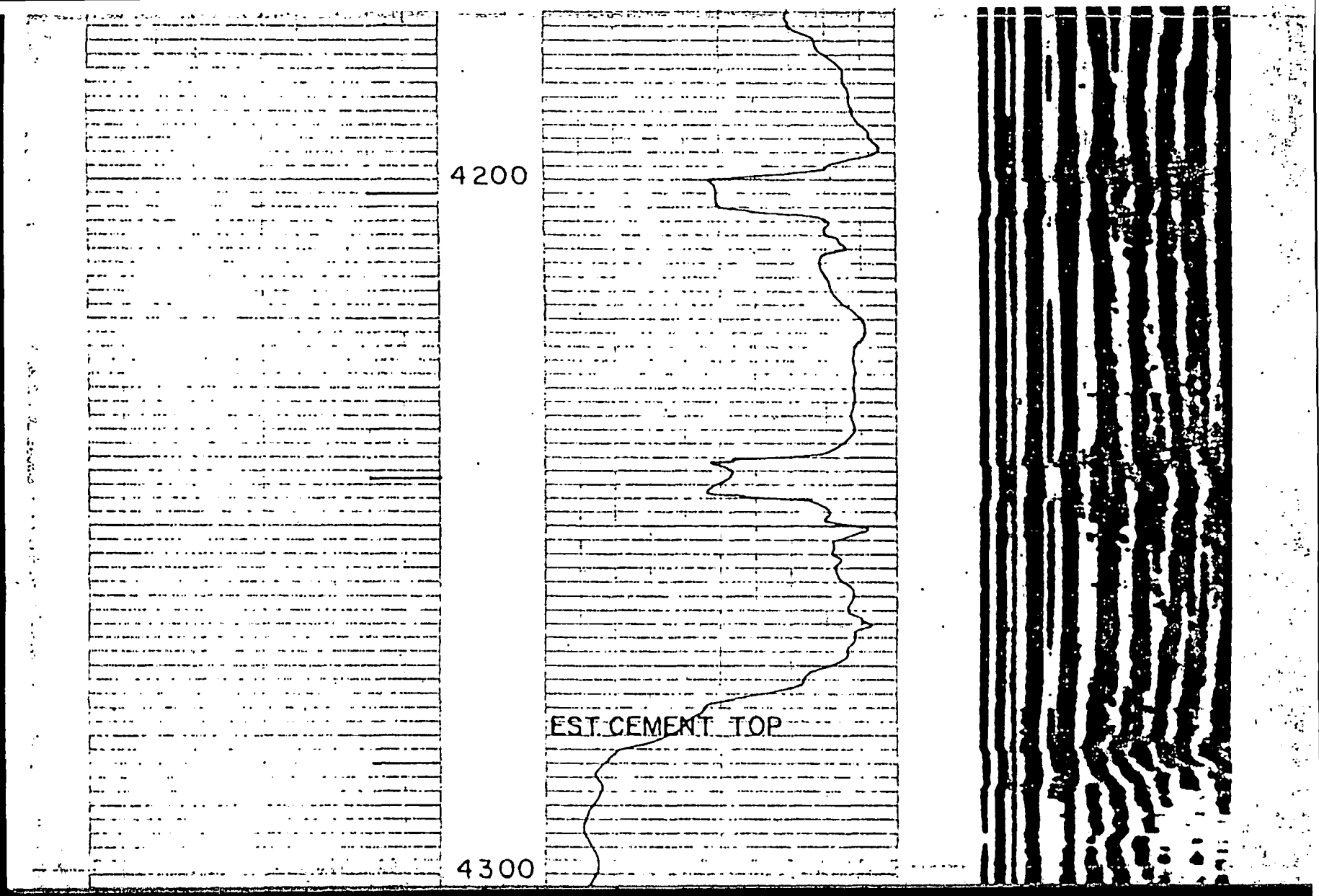


MAR02-0997



MAR02-0998



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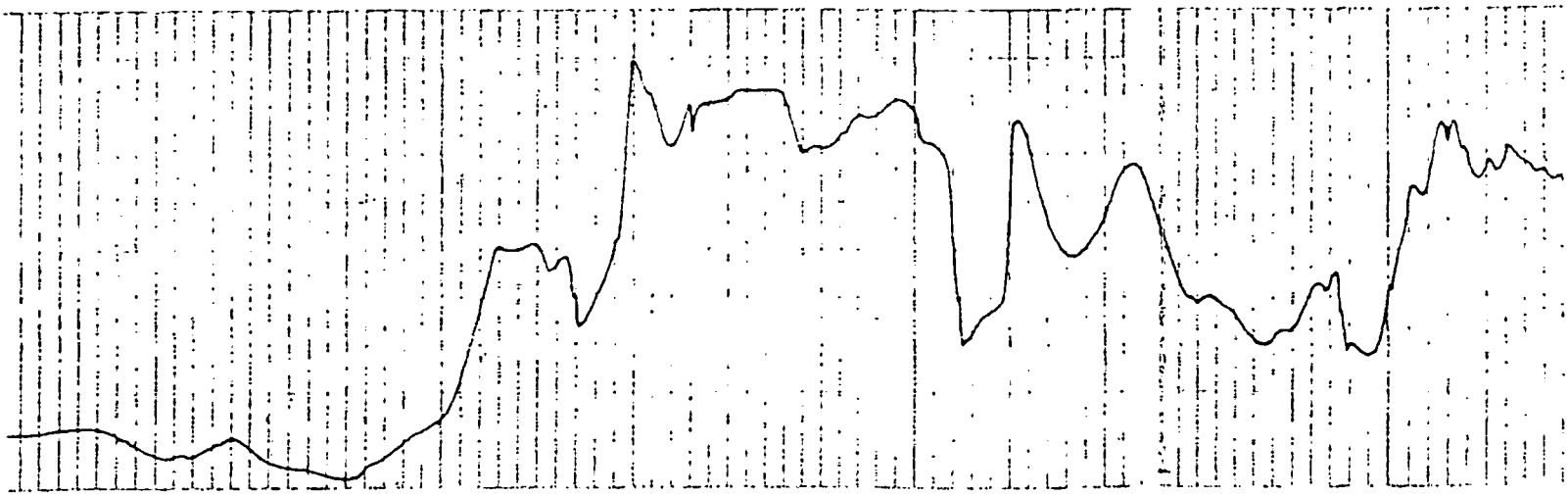

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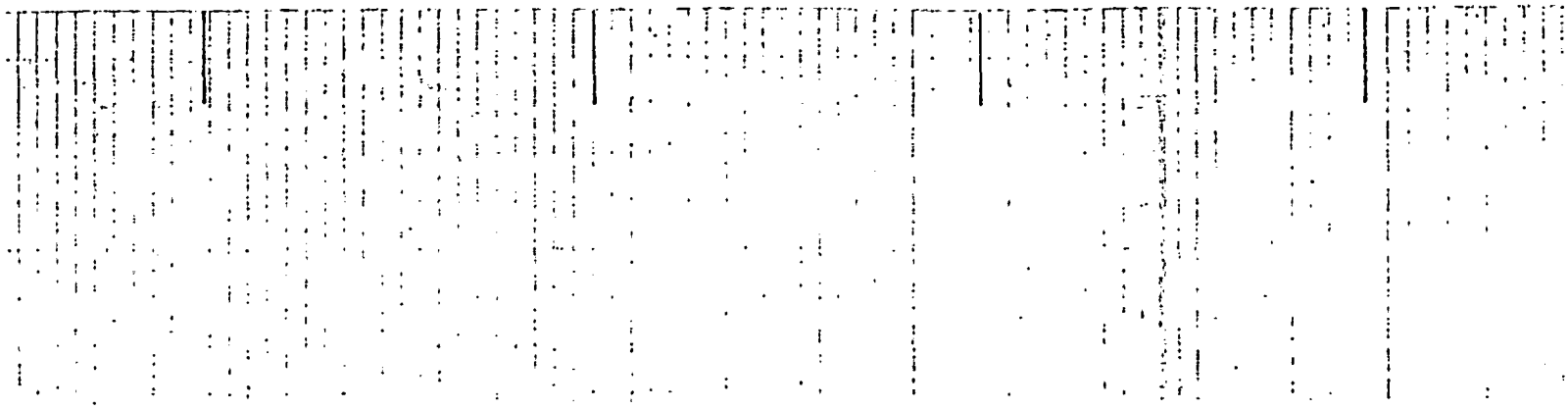

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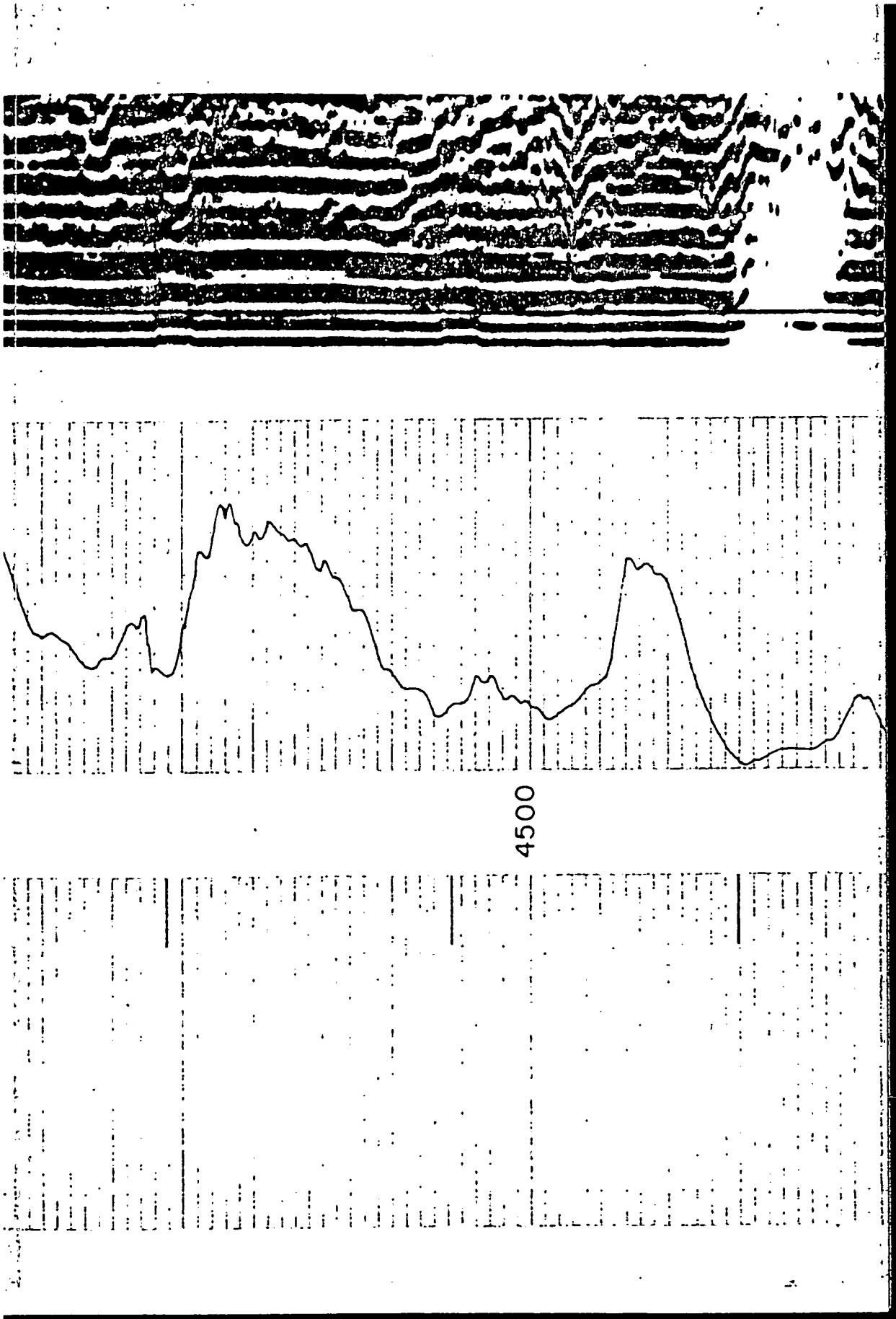

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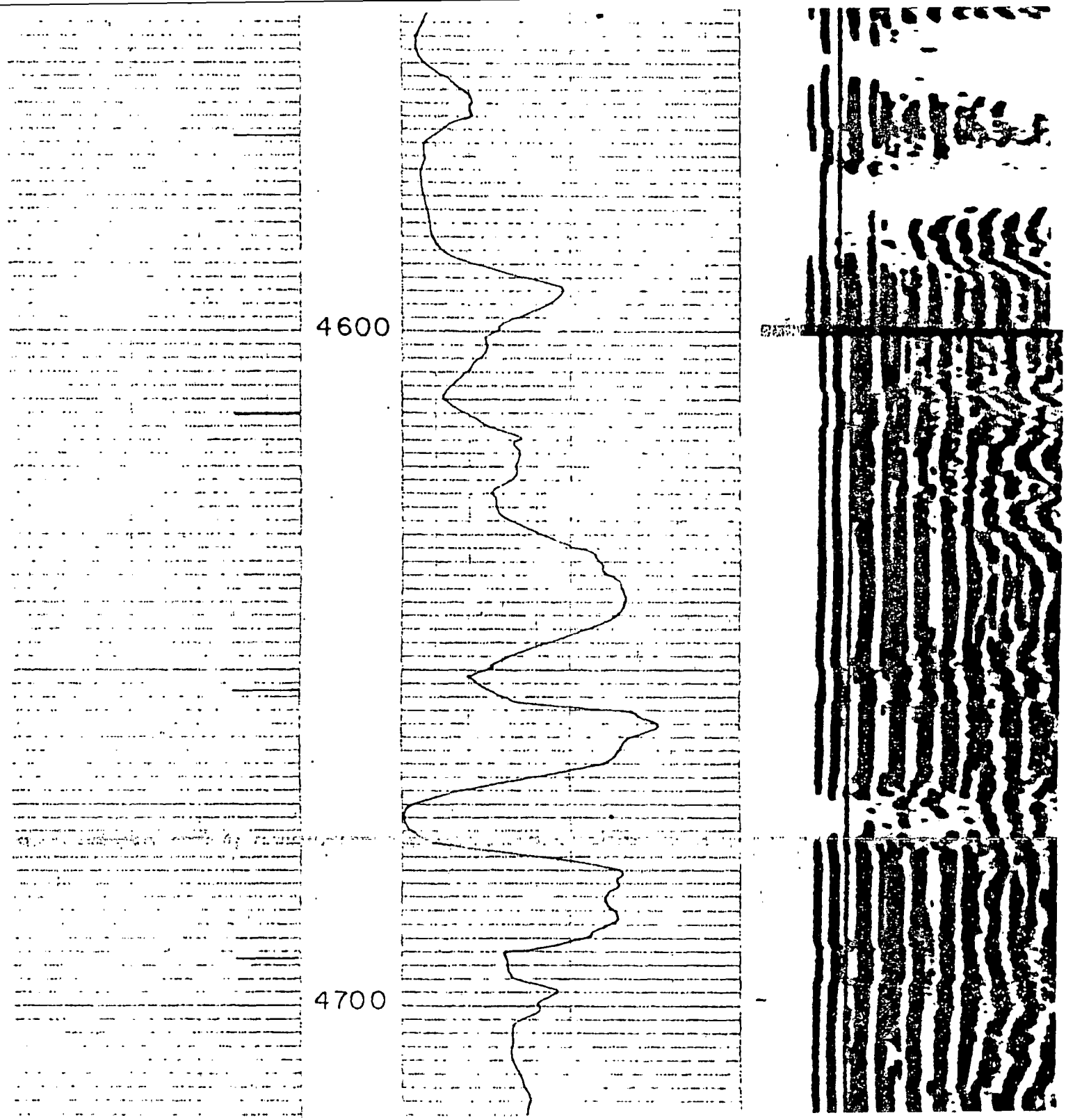

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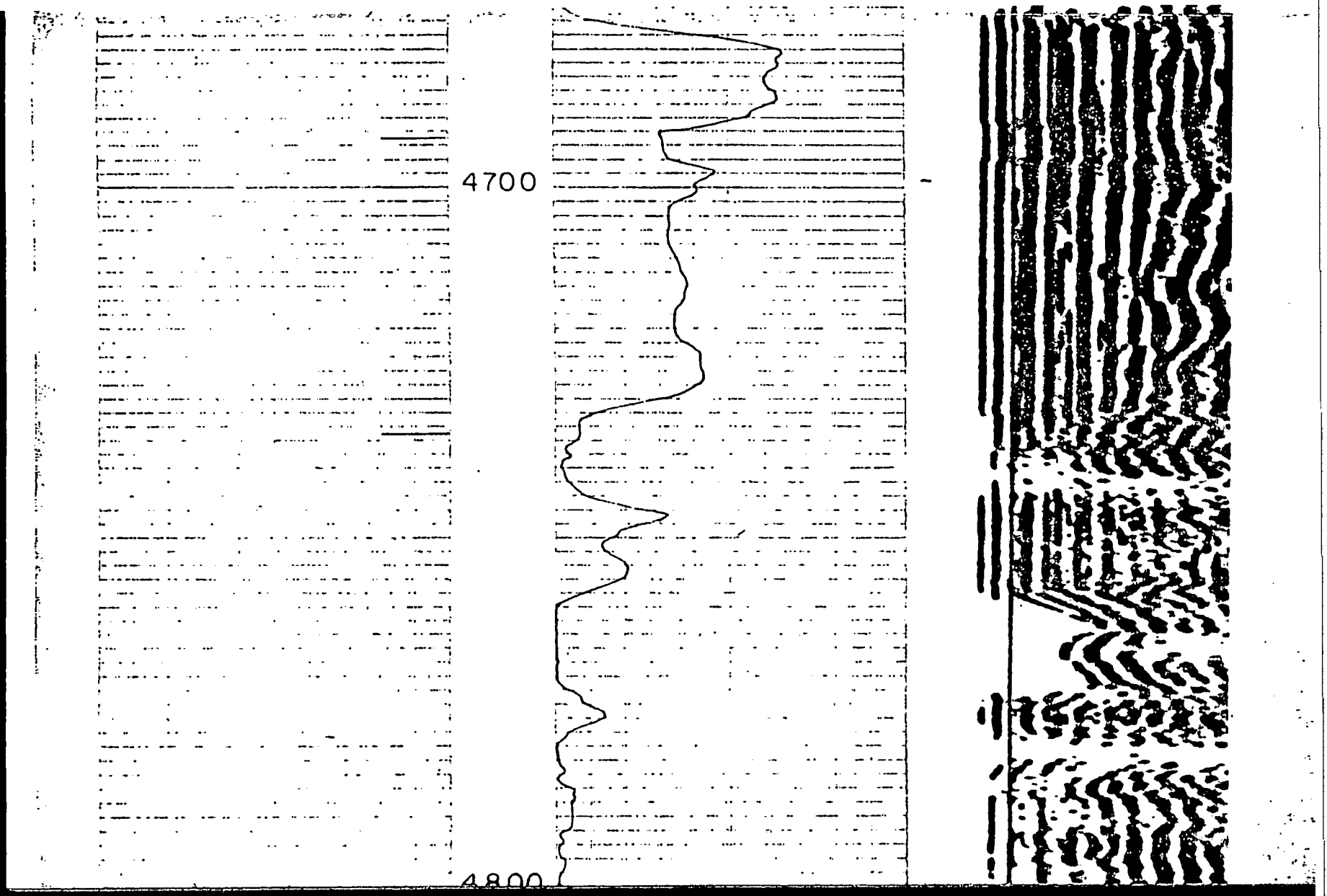

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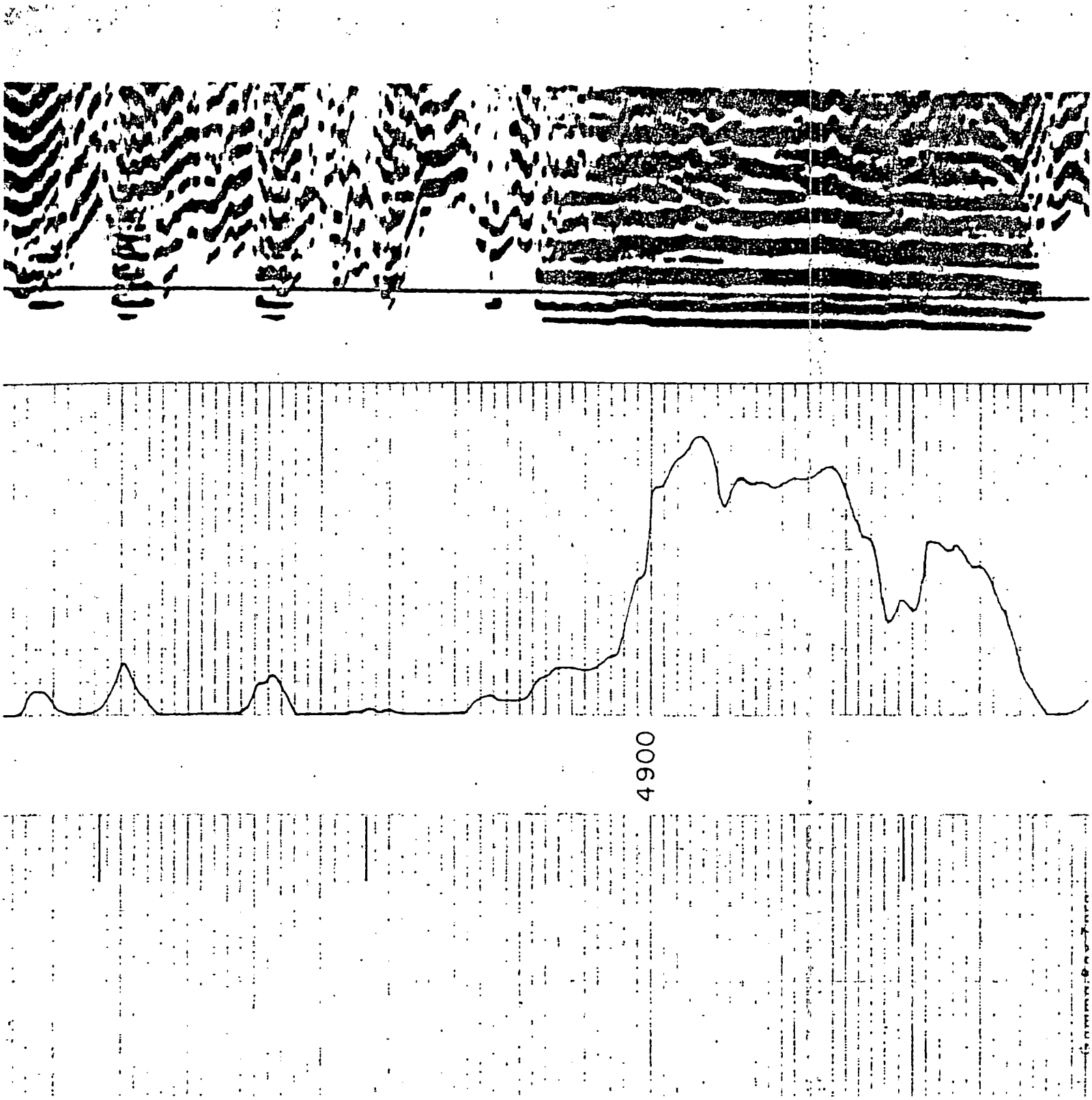

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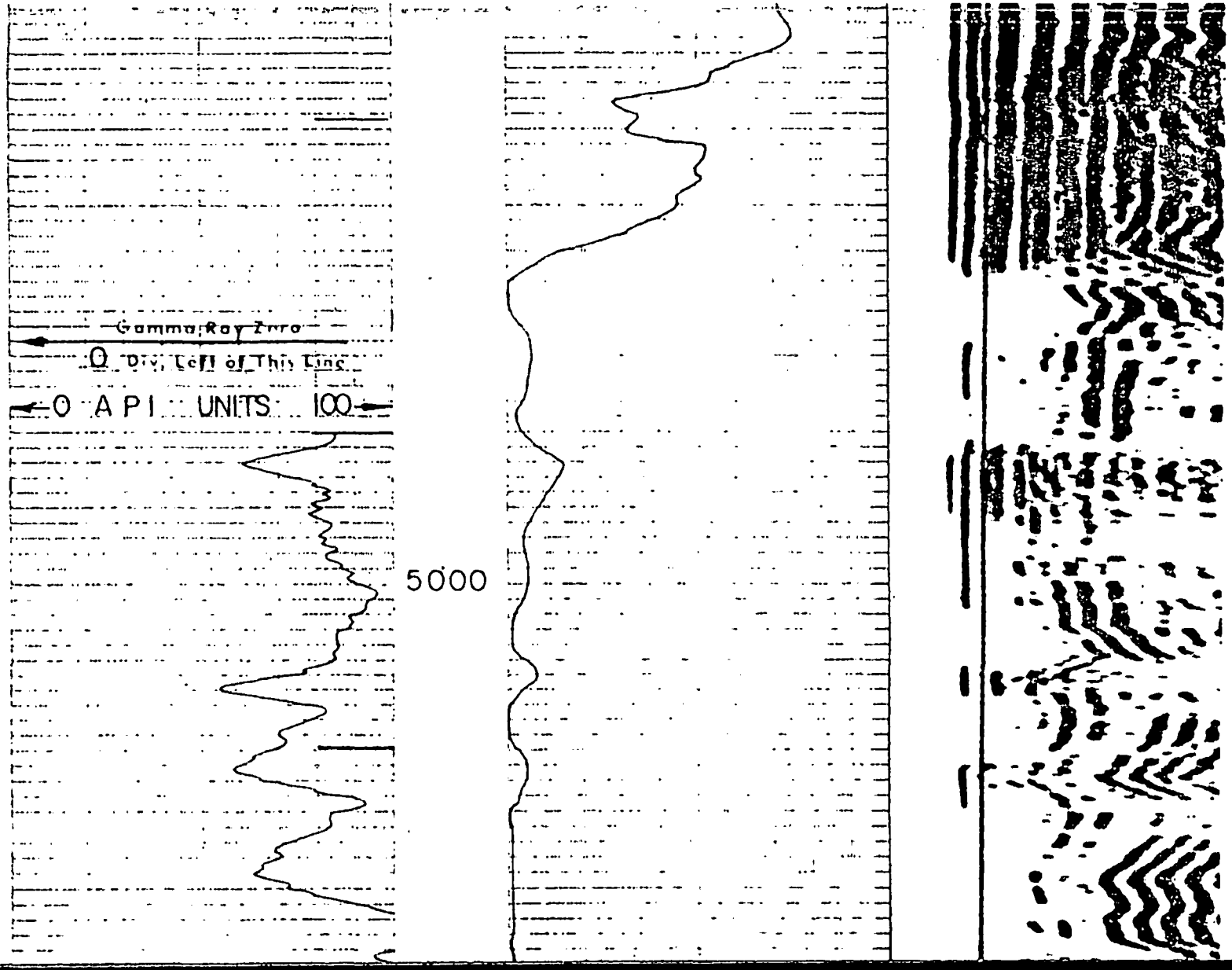

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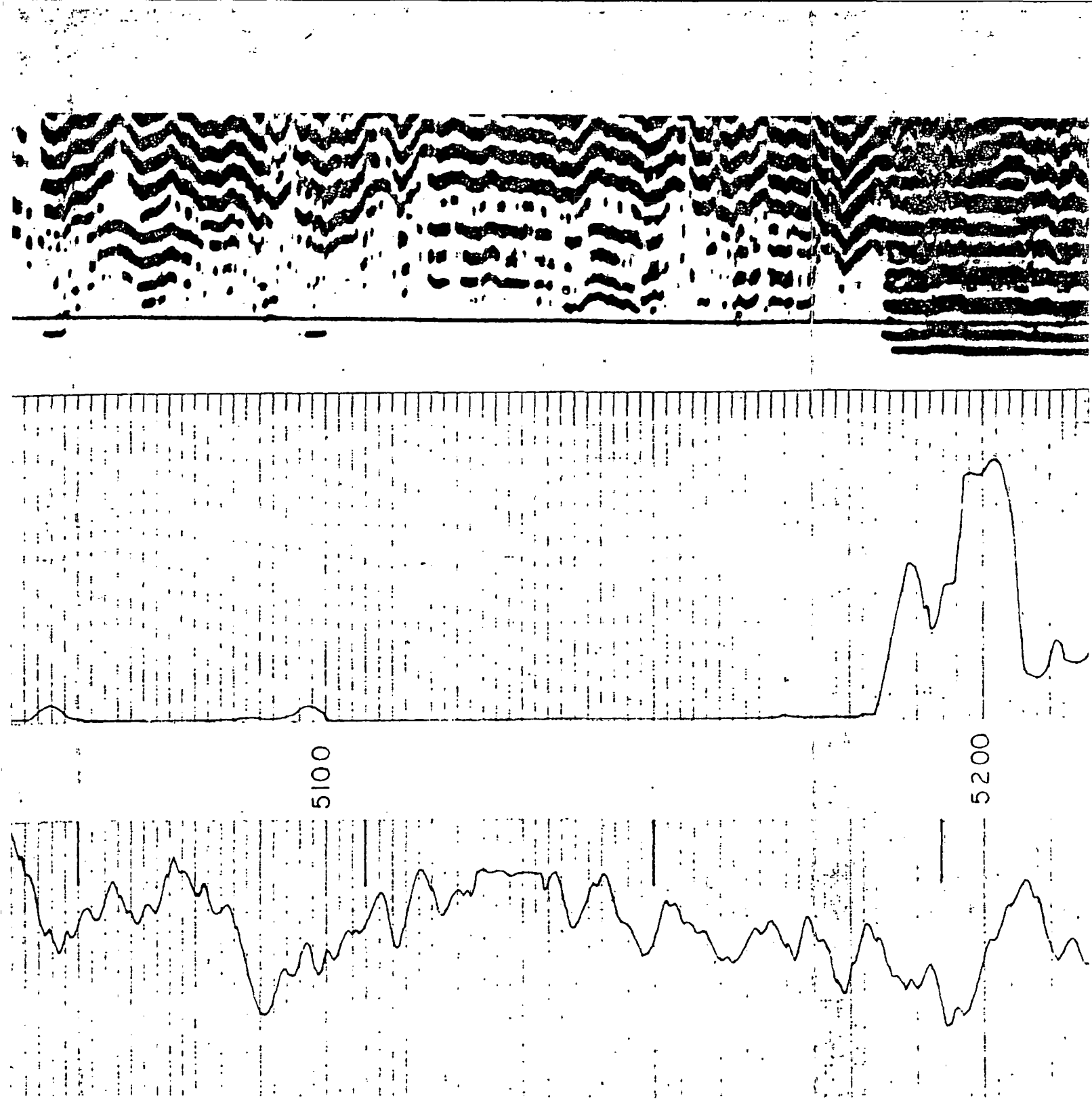

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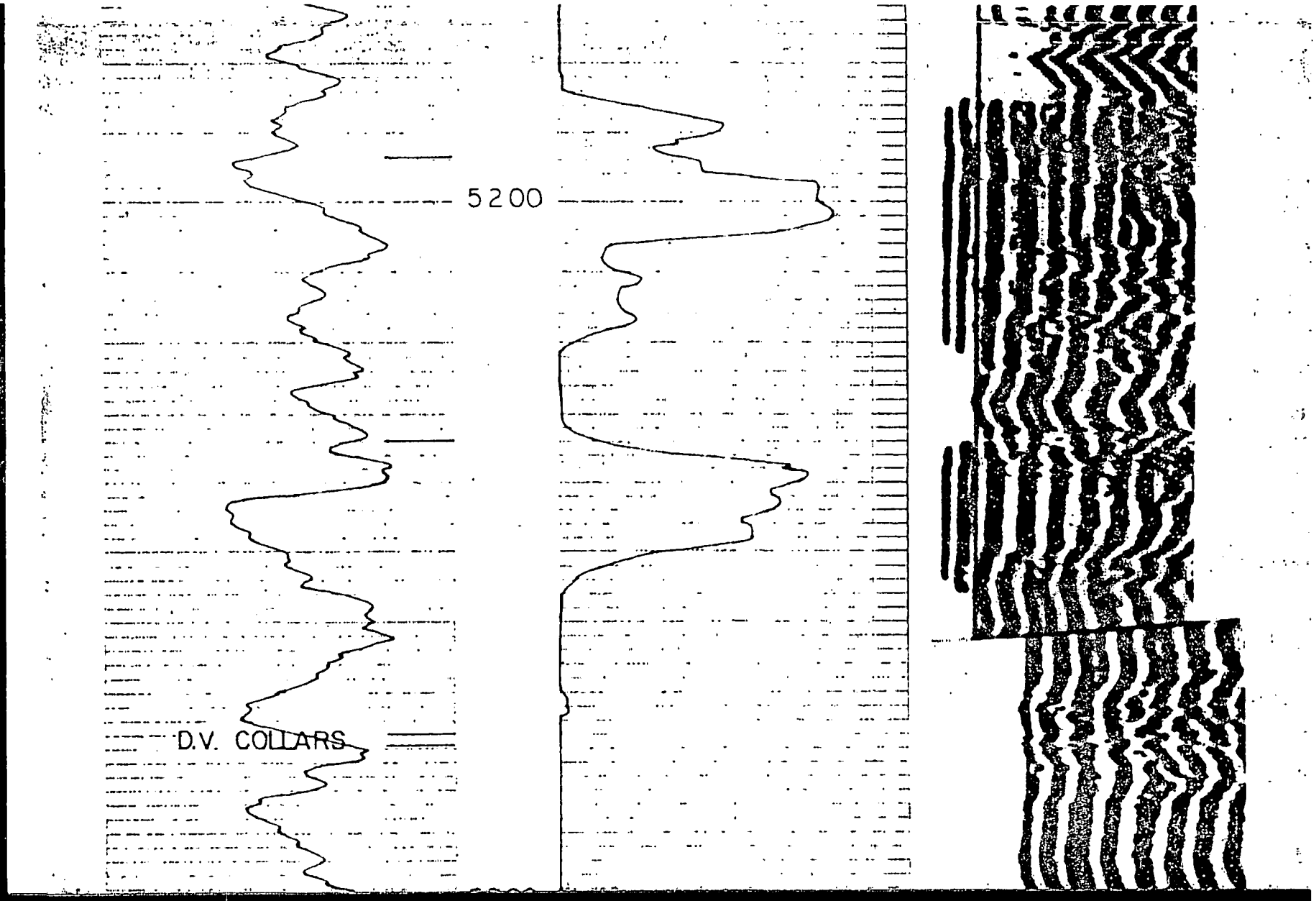
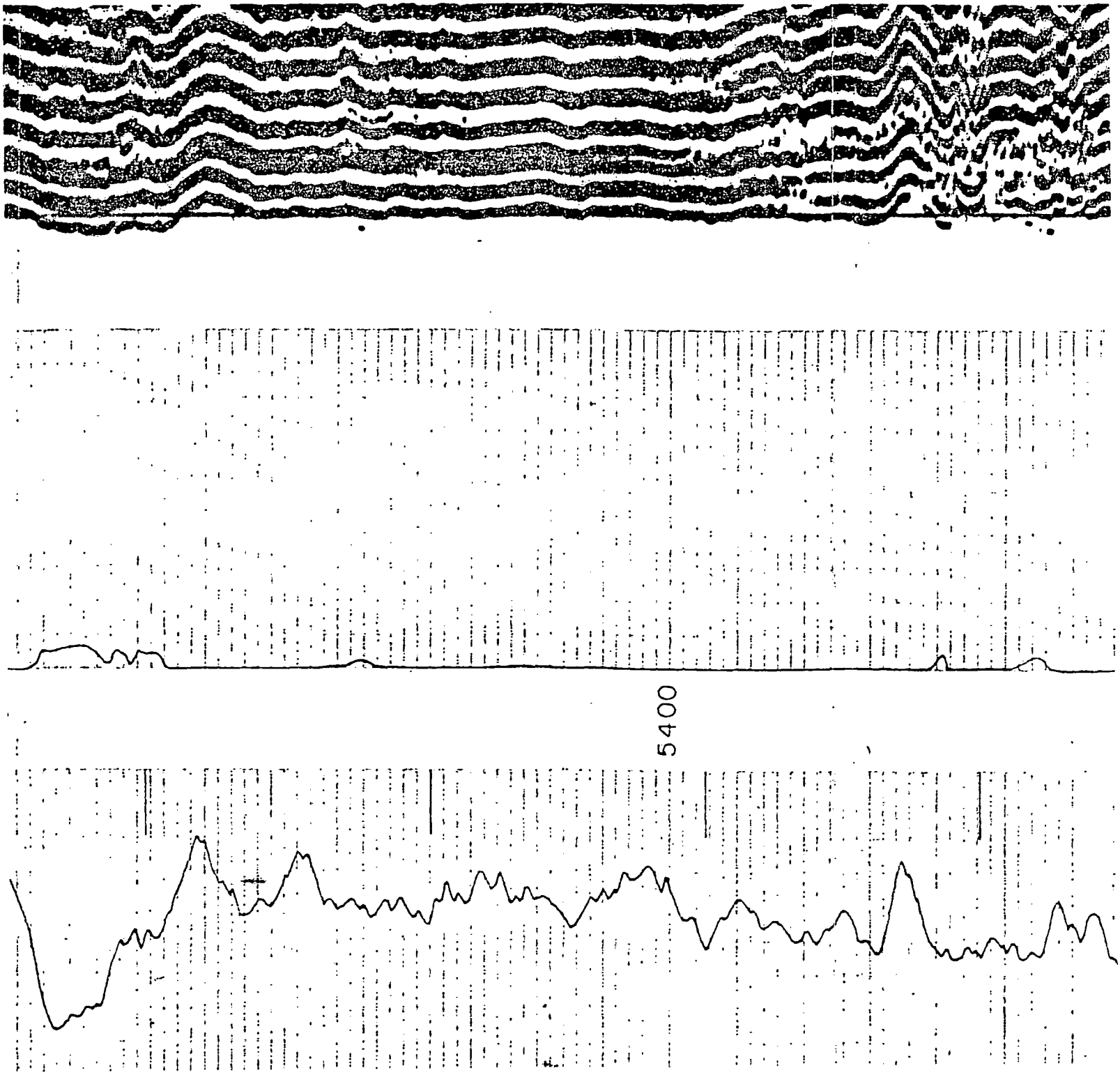
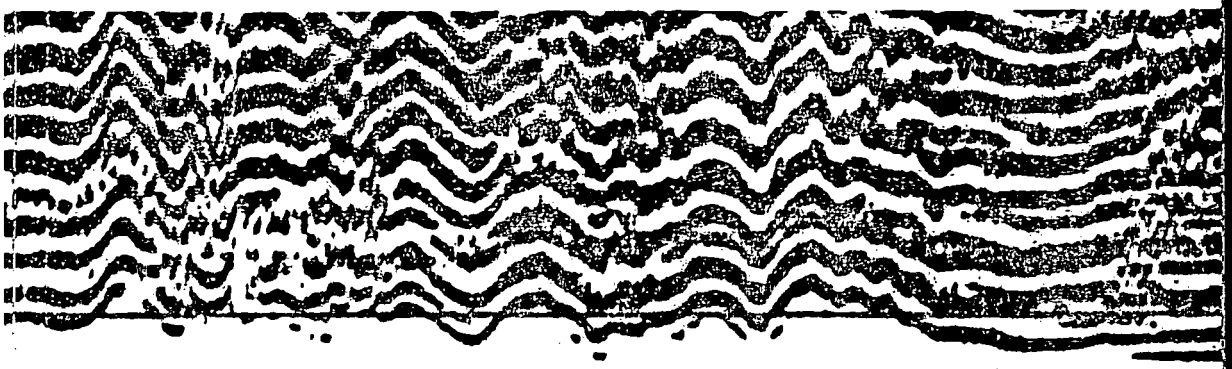
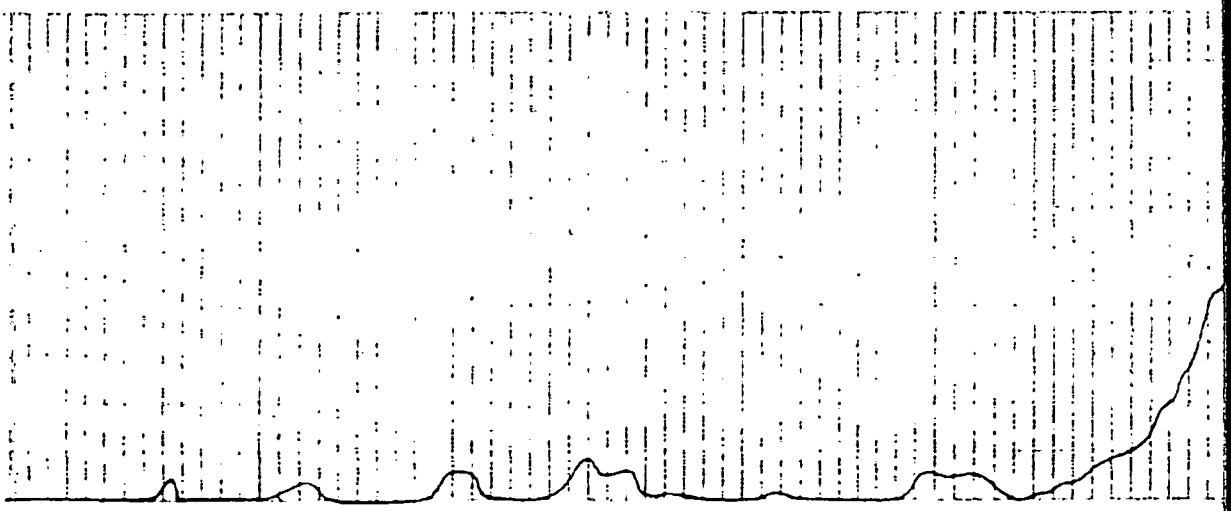


MAR02-1007



MAR02-1008





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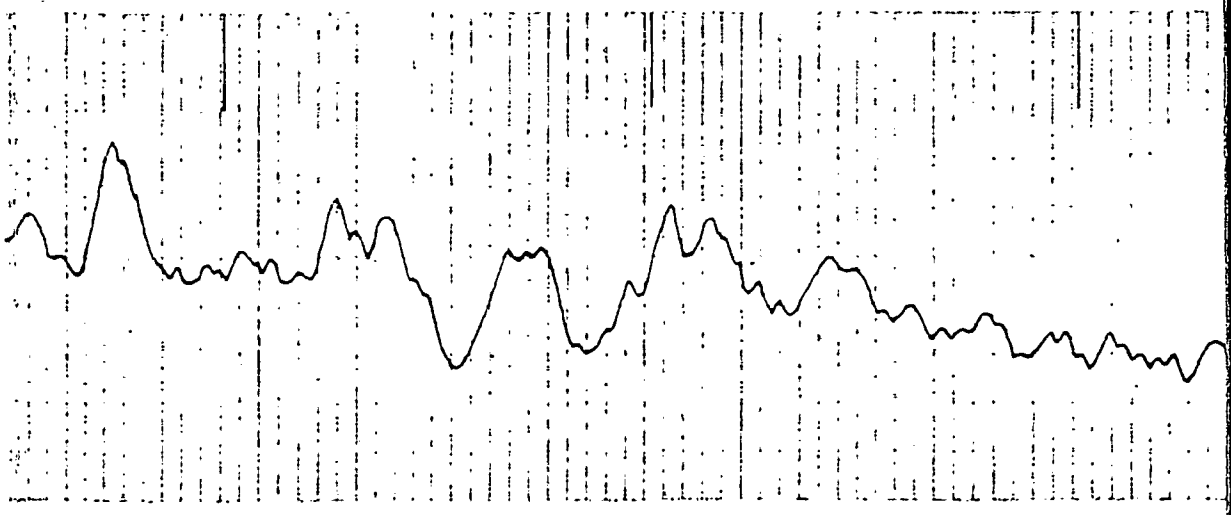
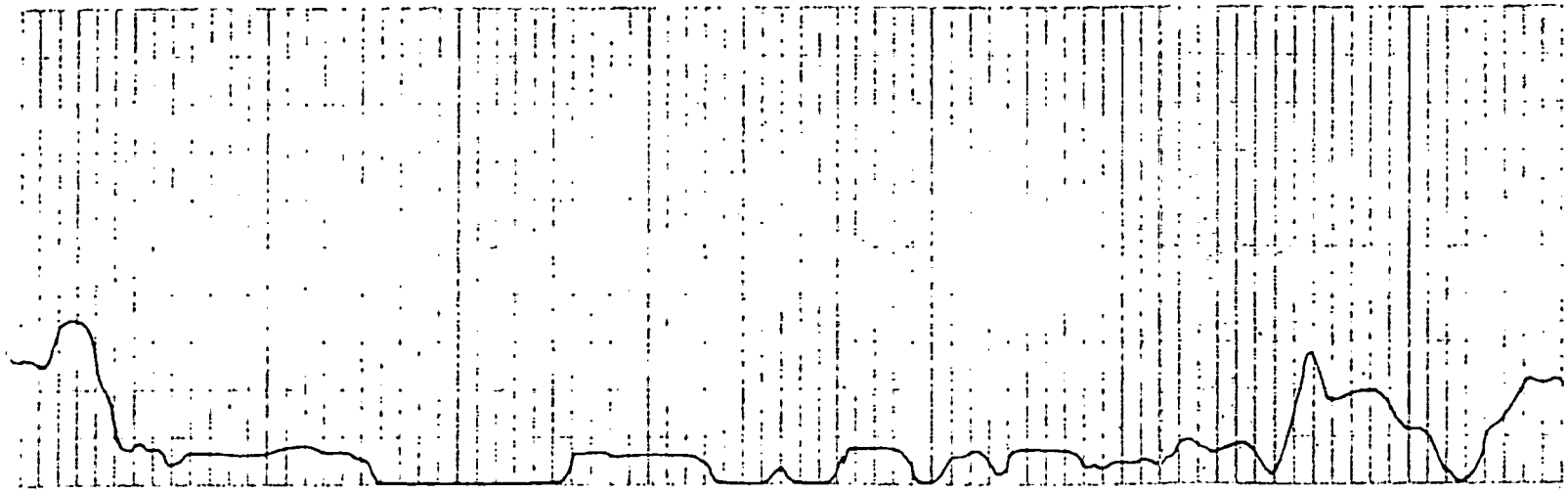
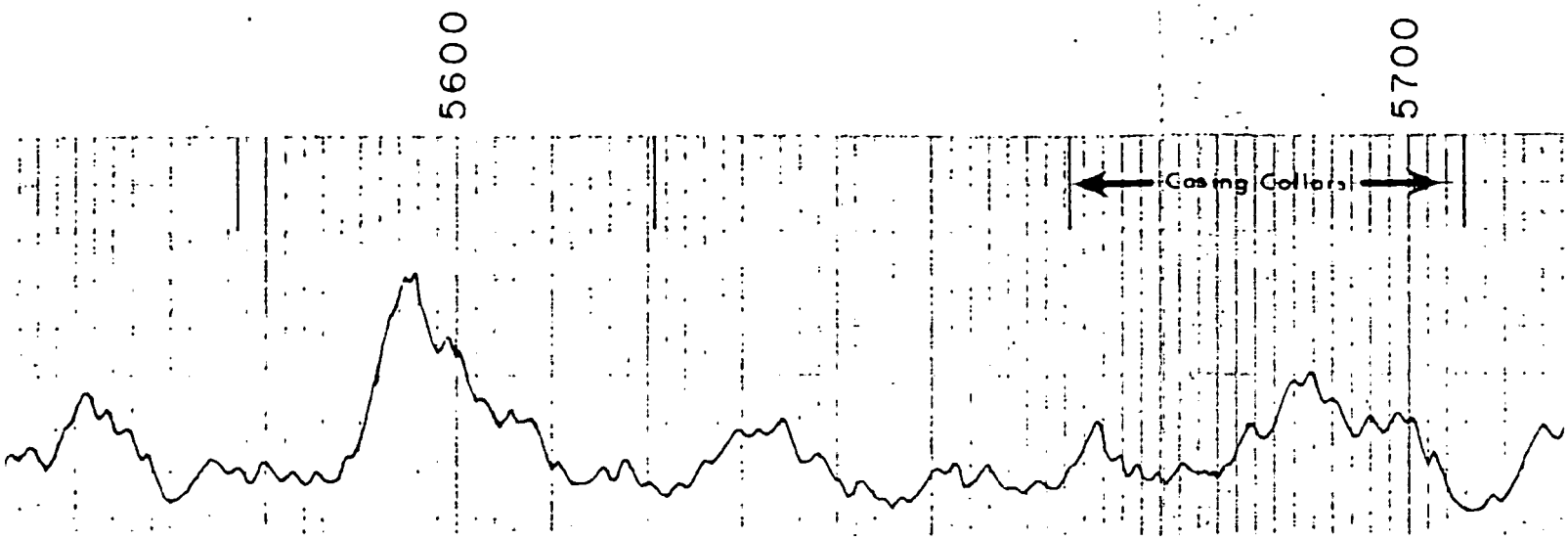


MAR02-1009





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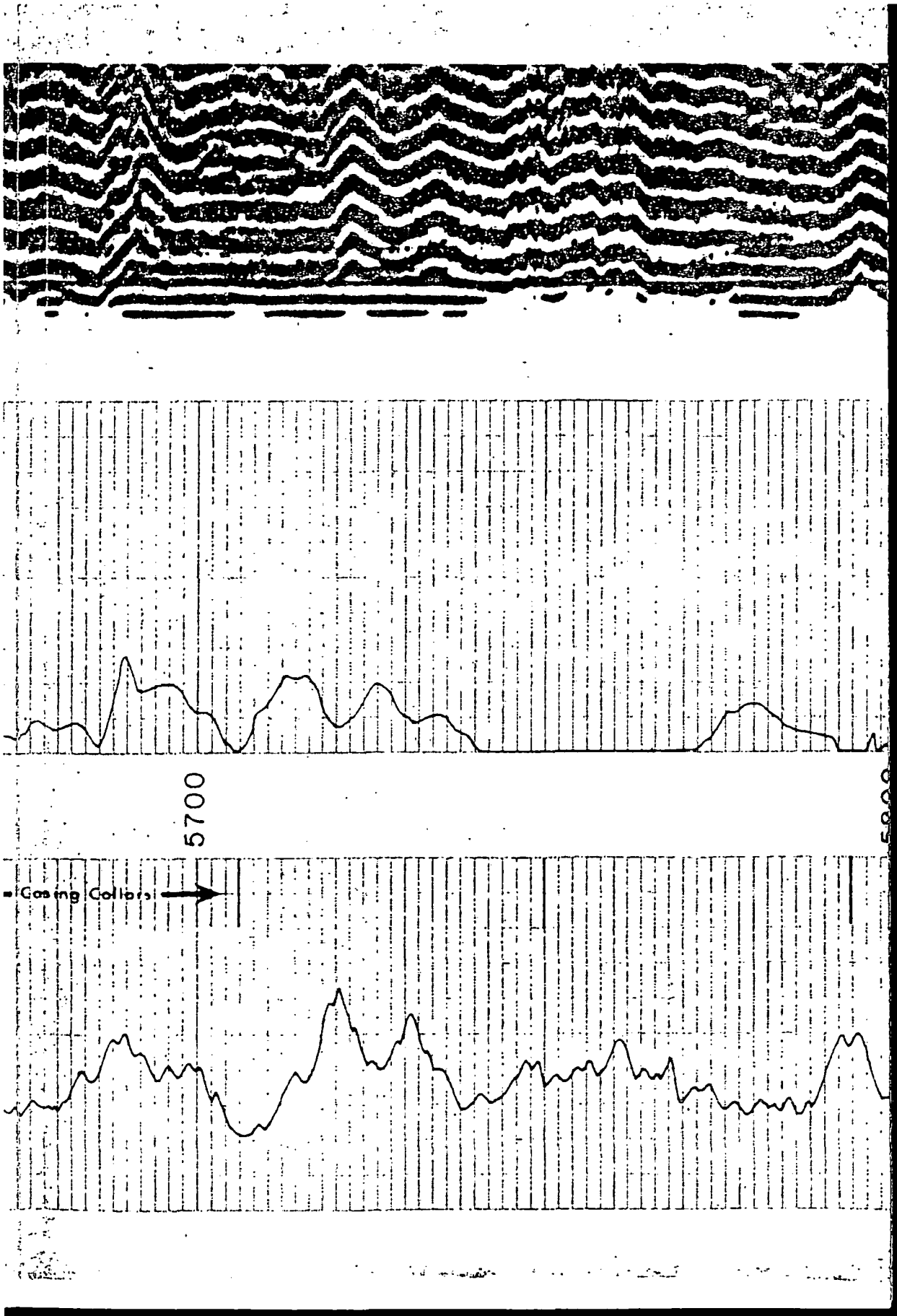
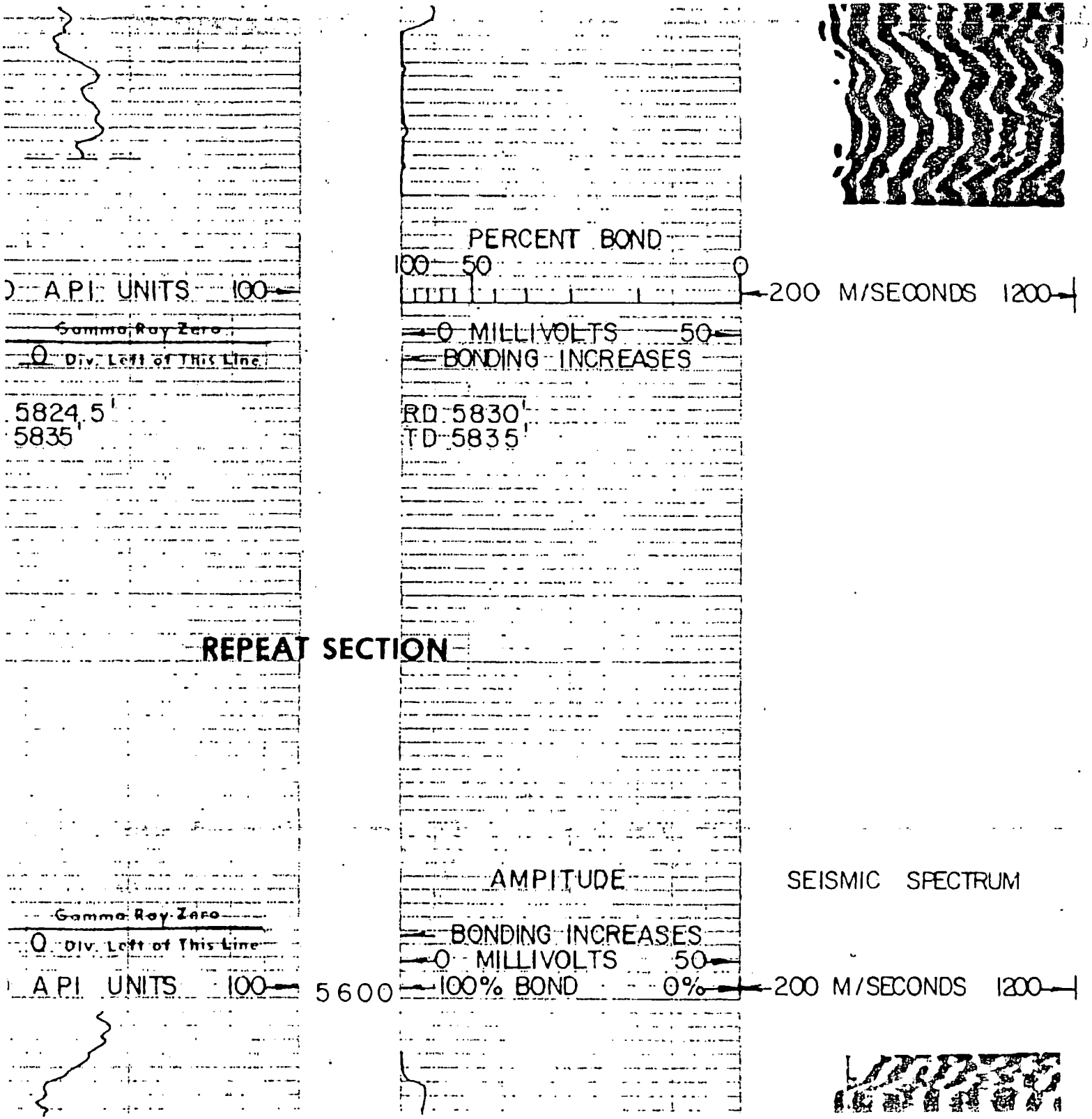
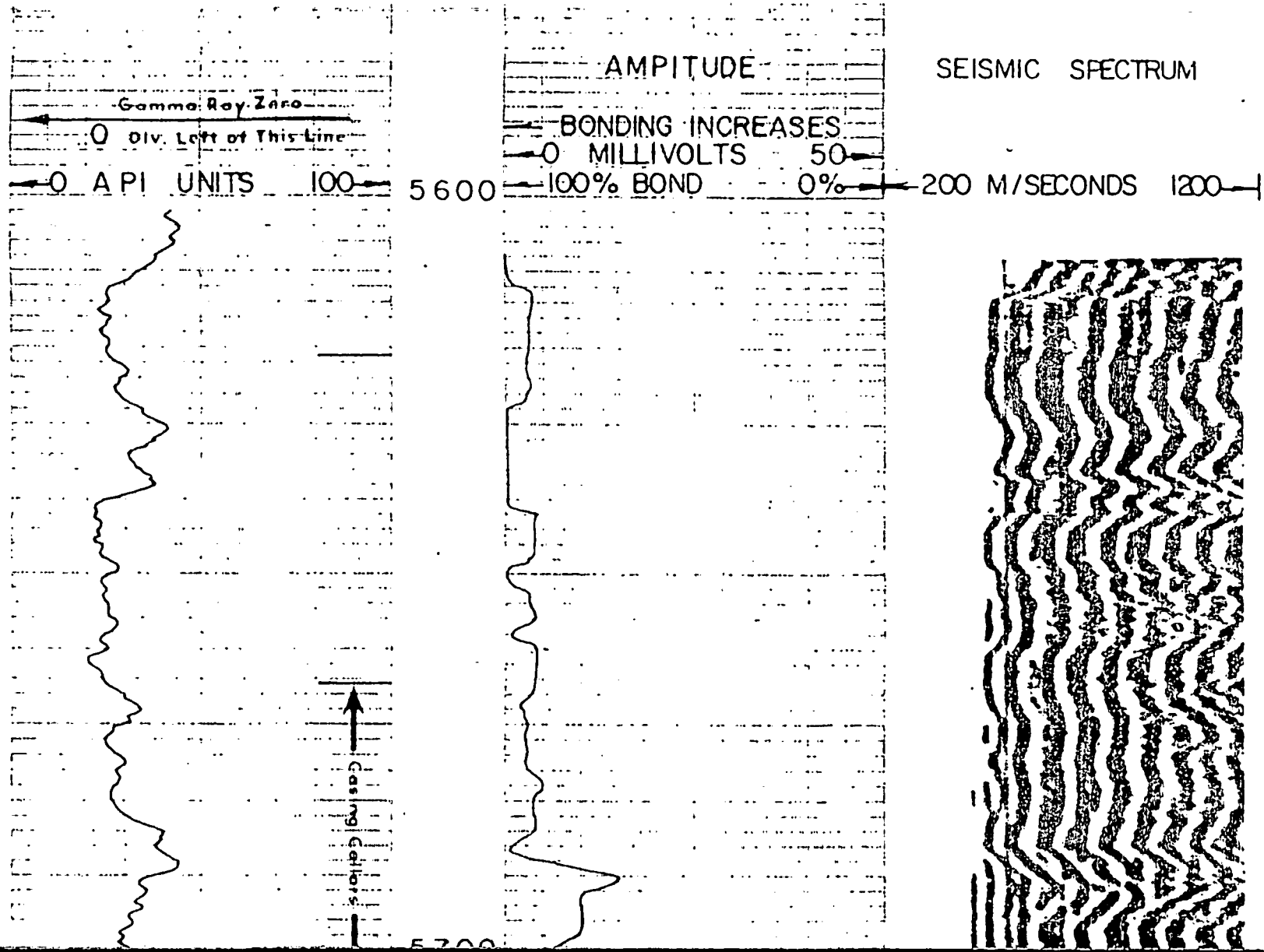


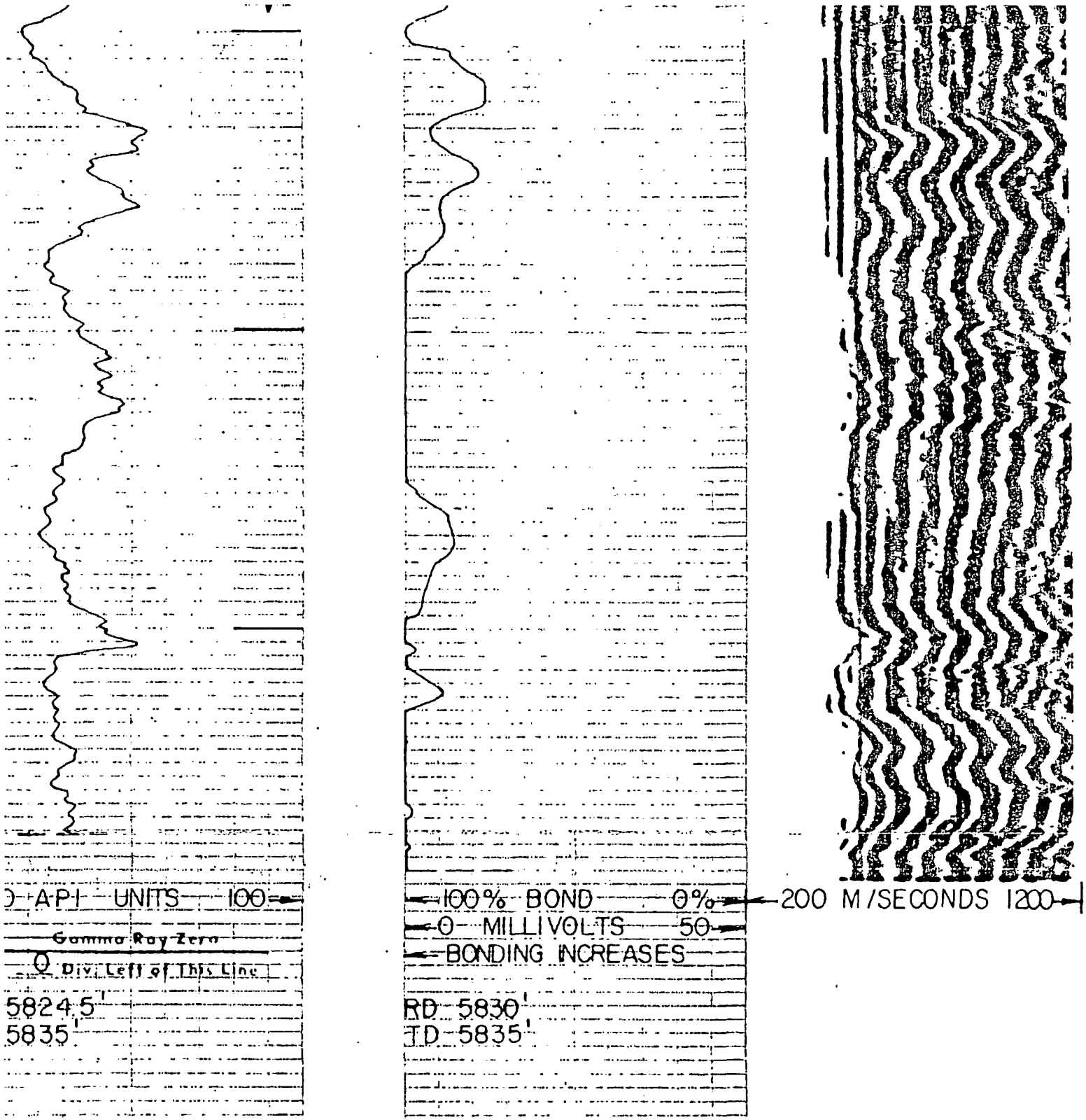
MAR02-1011


PERCENT BOND
100 50 0
0 A.P.I. UNITS 100
200 M/SECONDS 1200
Gamma Ray Zero
0 Div. Left of This Line
0 MILLIVOLTS 50
BONDING INCREASES
5824.5'
5835'
RD 5830'
TD 5835'
REPEAT SECTION
AMPITUDE
SEISMIC SPECTRUM
Gamma Ray Zero
0 Div. Left of This Line
BONDING INCREASES
0 MILLIVOLTS 50
A.P.I. UNITS 100
5600
100% BOND 0%
200 M/SECONDS 1200

MAR02-1012


Gamma Ray Zero
0 Div. Left of This Line
0 API UNITS 100
5600
Casing Collars
5700
AMPITUDE
BONDING INCREASES
0 MILLIVOLTS 50
100% BOND 0%
SEISMIC SPECTRUM
200 M/SECONDS 1200

MAR02-1013


0 API UNITS 100
Gamma Ray Zero
0 Div. Left of This Line
5824.5'
5835'
100% BOND 0%
0 MILLIVOLTS 50
BONDING INCREASES
RD 5830'
TD 5835'
200 M/SECONDS 1200

MAR02-1014

0 API UNITS 100

Gamma Ray Zero

0 Div. Left of This Line

RD 5824.5'

TD 5835'

100% BOND 0%

0 MILLIVOLTS 50

BONDING INCREASES

RD 5830'

TD 5835'

200 M/SECONDS 1200

CALIBRATION

100% BOND 0%

MAR02-1015

PEN SPACING CHECK

G/R

CCL

CBL

O. PRODUCTION CORP.
CKLE B #1
ST POPLAR
OSEVELT MT
28N-51E

MAR02-1016

MAR02-1017

GEARHART

GAMMA-RAY LOG

FILING NO.

COMPANY T.X.O. PRODUCTION CORPORATION

WELL BUCKLE B NO. 1

FIELD EAST POPLAR

COUNTY ROOSEVELT STATE MT

LOCATION

SEC 22 TWP 28N RGE 51E

OTHER SERVICES.

PERMANENT DATUM G.L. ELEV 2106'

LOG MEASURED FROM K.B. 13 FT. ABOVE PERM. DATUM

DRILLING MEASURED FROM K.B.

ELEV K.B. 2119'
D.F. 2116'
G.L. 2106'

Date	9-1-81		
Run No.	ONE		
Type Log	G/R		
Depth-Driller			
Depth-Logger	5827'		
Bottom logged interval	5827'		
Top logged interval	526[illegible]'		
Type fluid in hole	WATER-MUD		
Max rec. temp., deg. F			
Operating rig time	2 HOURS		
Recorded by	PALUCK		
Witnessed by	MR. W. DIER		

Bore-Hole Record				Tubing Record			
Run No.	Bit	From	To	Size	Wgt	From	To

Casing Record				Liner			
Size	Wgt.	From	To	Size	Wgt.	From	To
4-1/2"		SURFACE	TD				

FORM 110-H

MAR-830

MAR02-1018

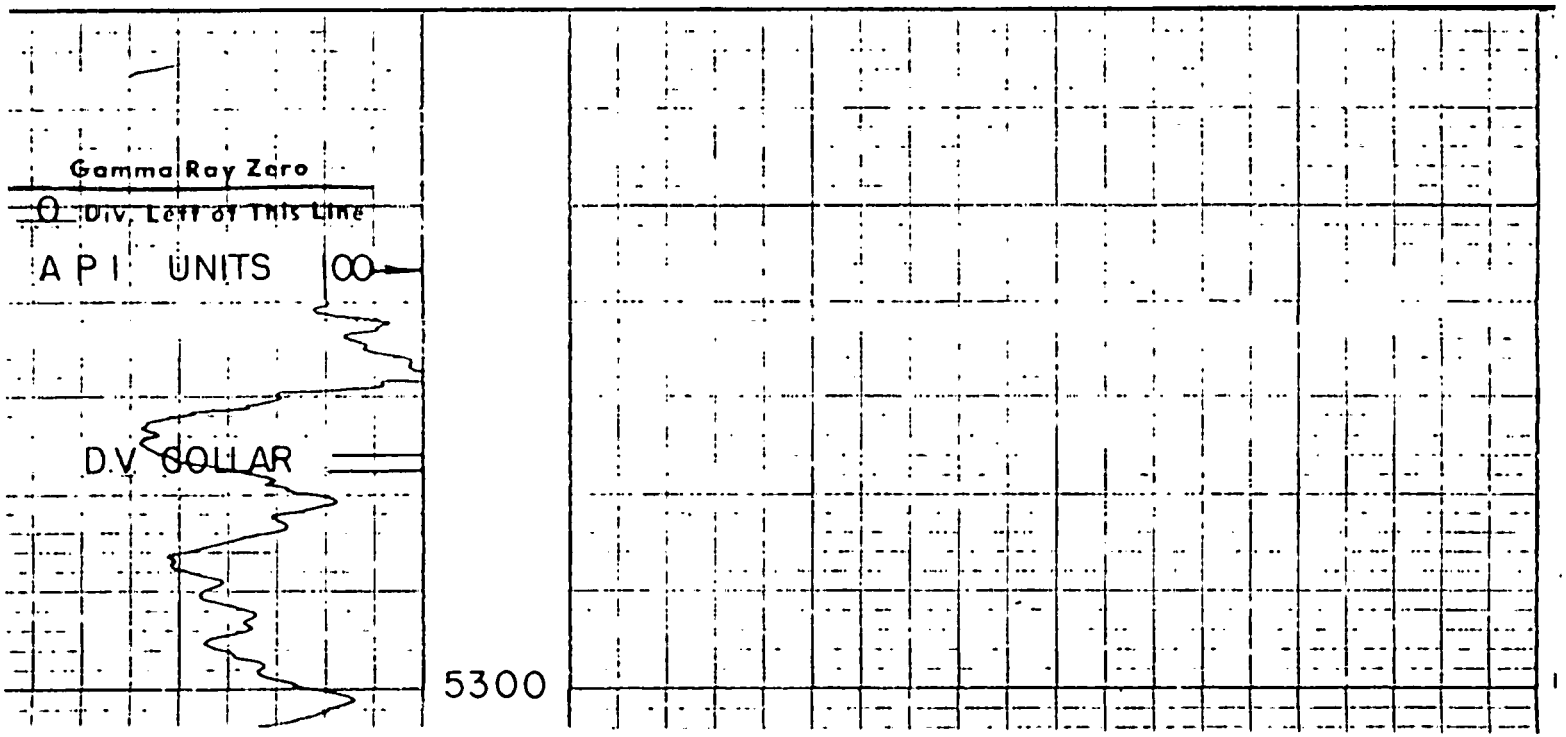
E: All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss,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

GEARHART INDUSTRIES, INC.

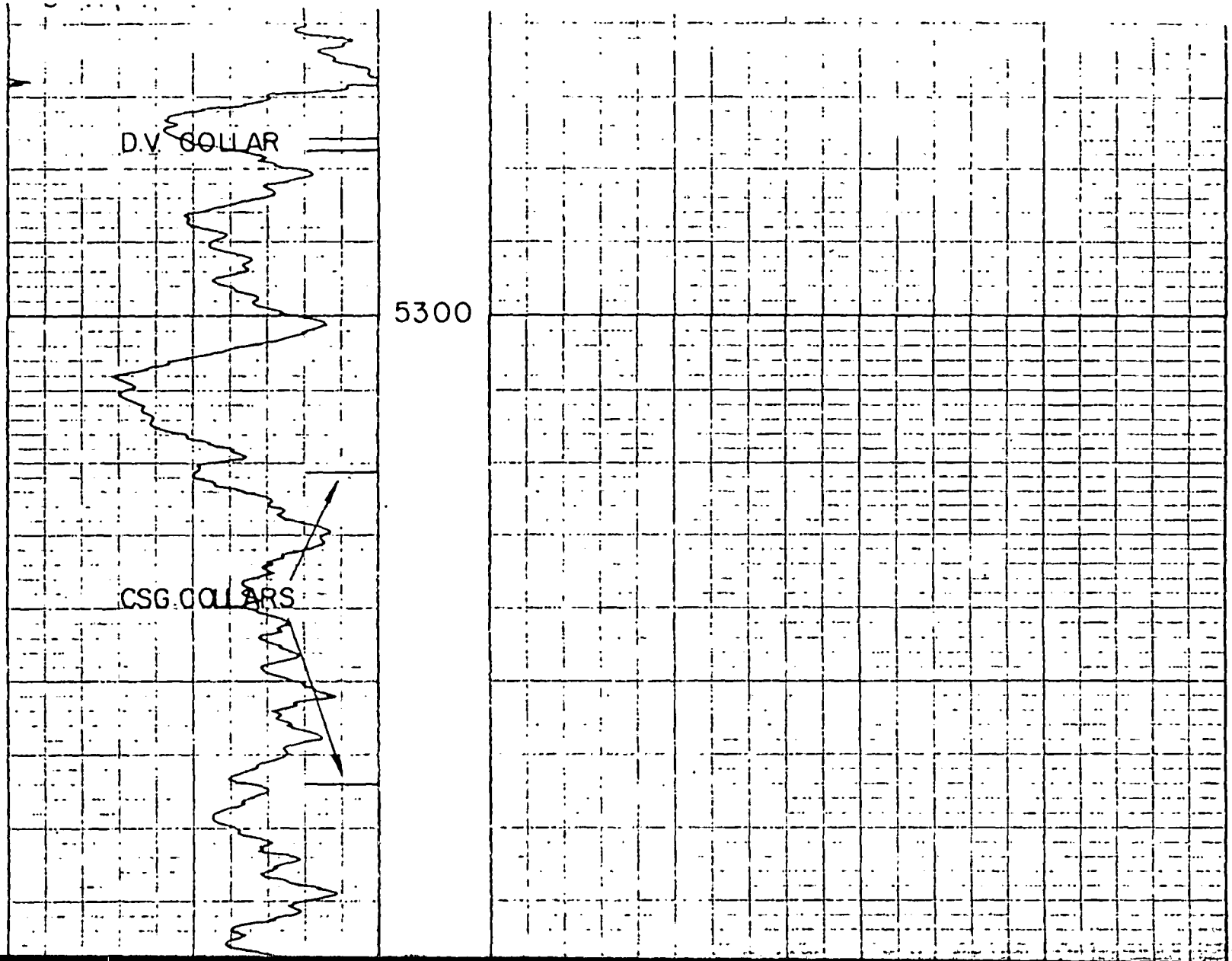
. Gamma-Ray	ONE			Run No. Neutron			
odel No.	COSMOS			Tool Serial No.			
er	1-11/16"			Tool Model No. ; Type			
r Model No.				Diameter ; Spacing			
pe	GEIGER			Det. Mod. No. ; Type			
ngth	18"			Source Type			
e to N. Source				Serial No.			
				Strength			

GENERAL			GAMMA-RAY					NEUTRON				
DEPTHS		Speed	T.C.	Cps.	Sens.	Zero	API GR	T.C.	Cps.	Sens.	Zero	API N.
O	FROM	Ft./Min.	Sec.	Setting	Settings	Div. L or R	Units Per Log Div.	Sec.	Setting	Settings	Div. L or R	Units Per Log Div.
'60'	5827'	25	3	100	800		10					

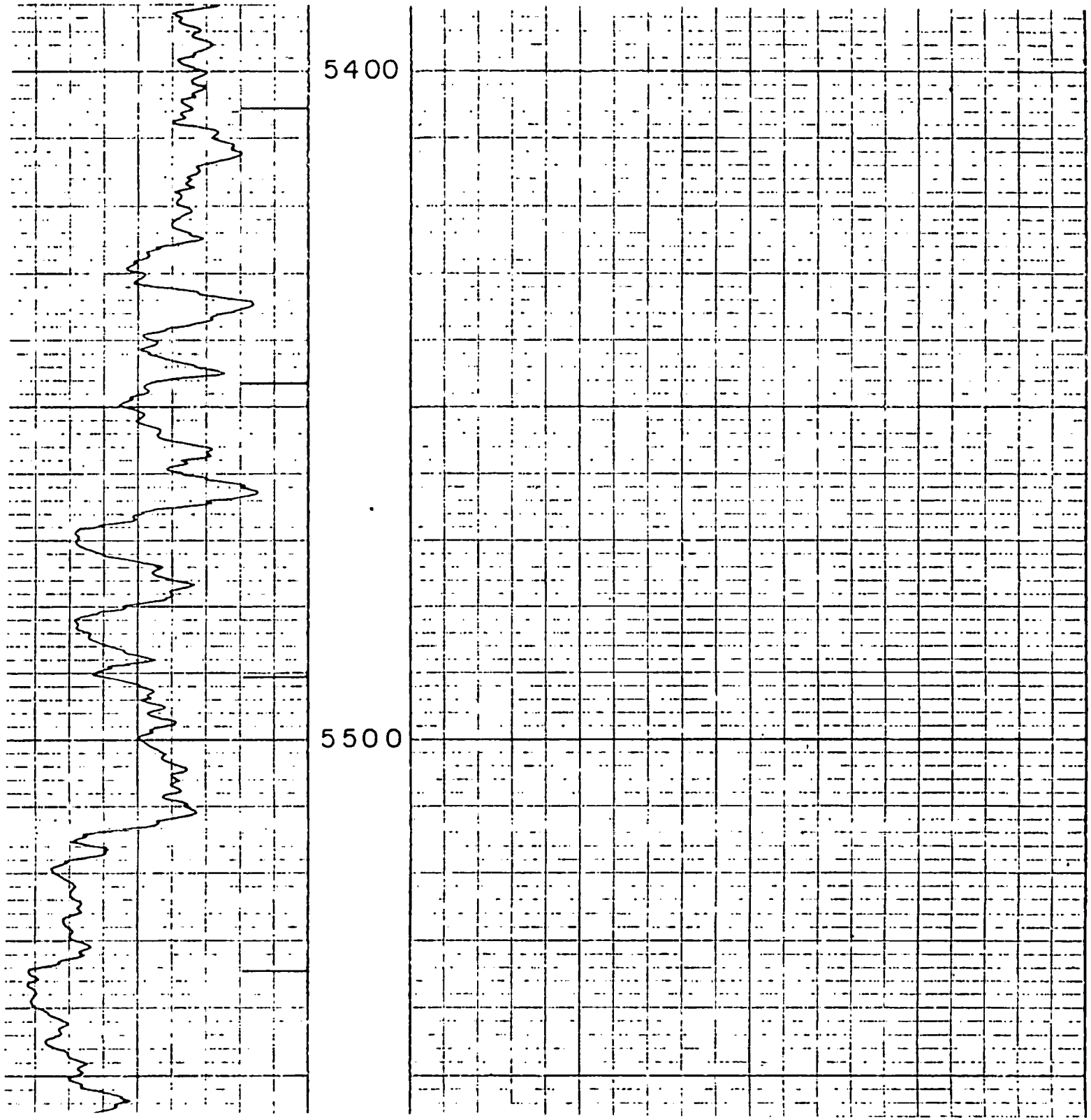
RKS: G/R 1-1/2' FROM CCL + 1' LAG 2-1/2' PHYSICAL SPACING
(TOOL REVERSED)



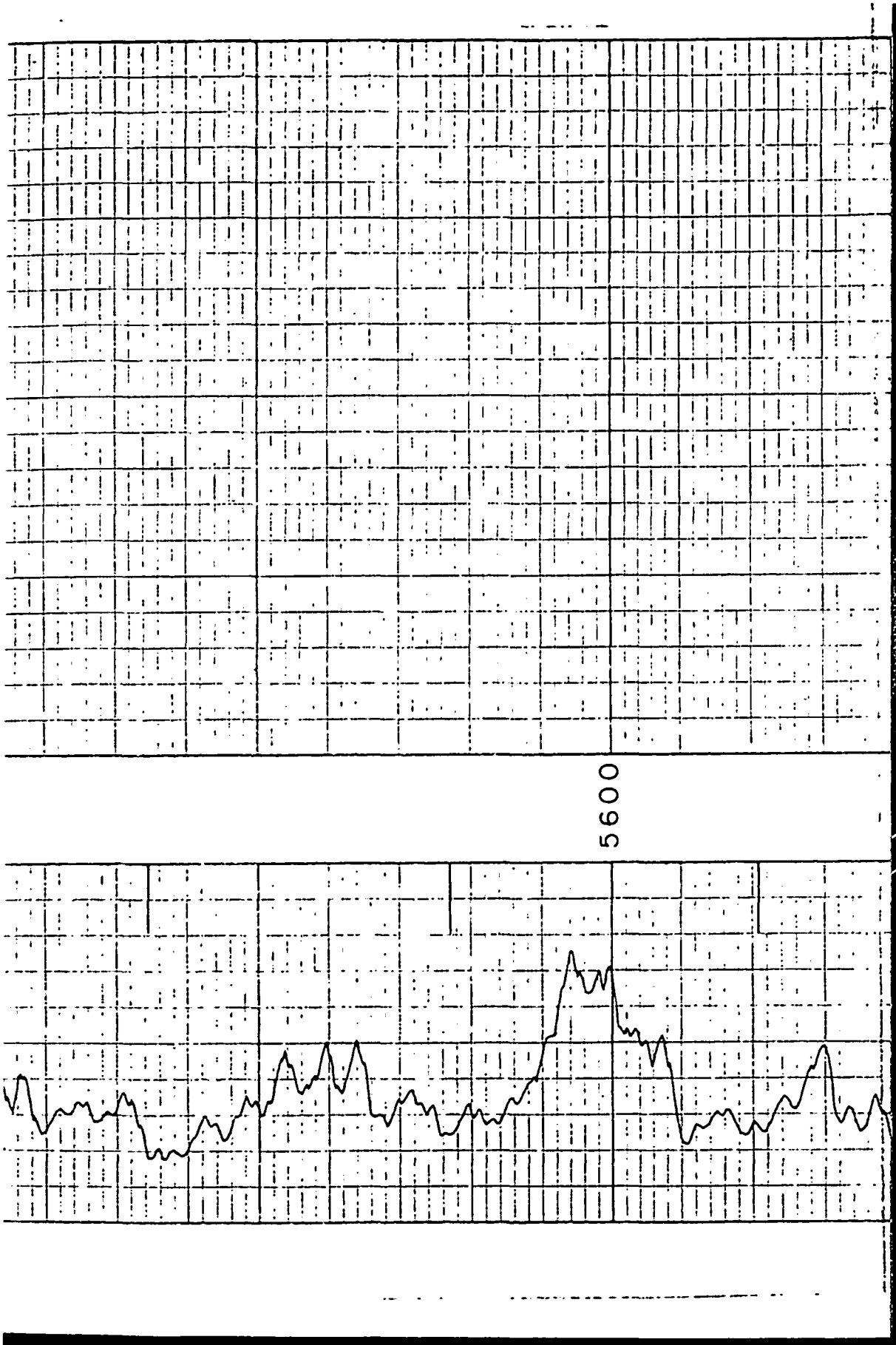
MAR02-1019



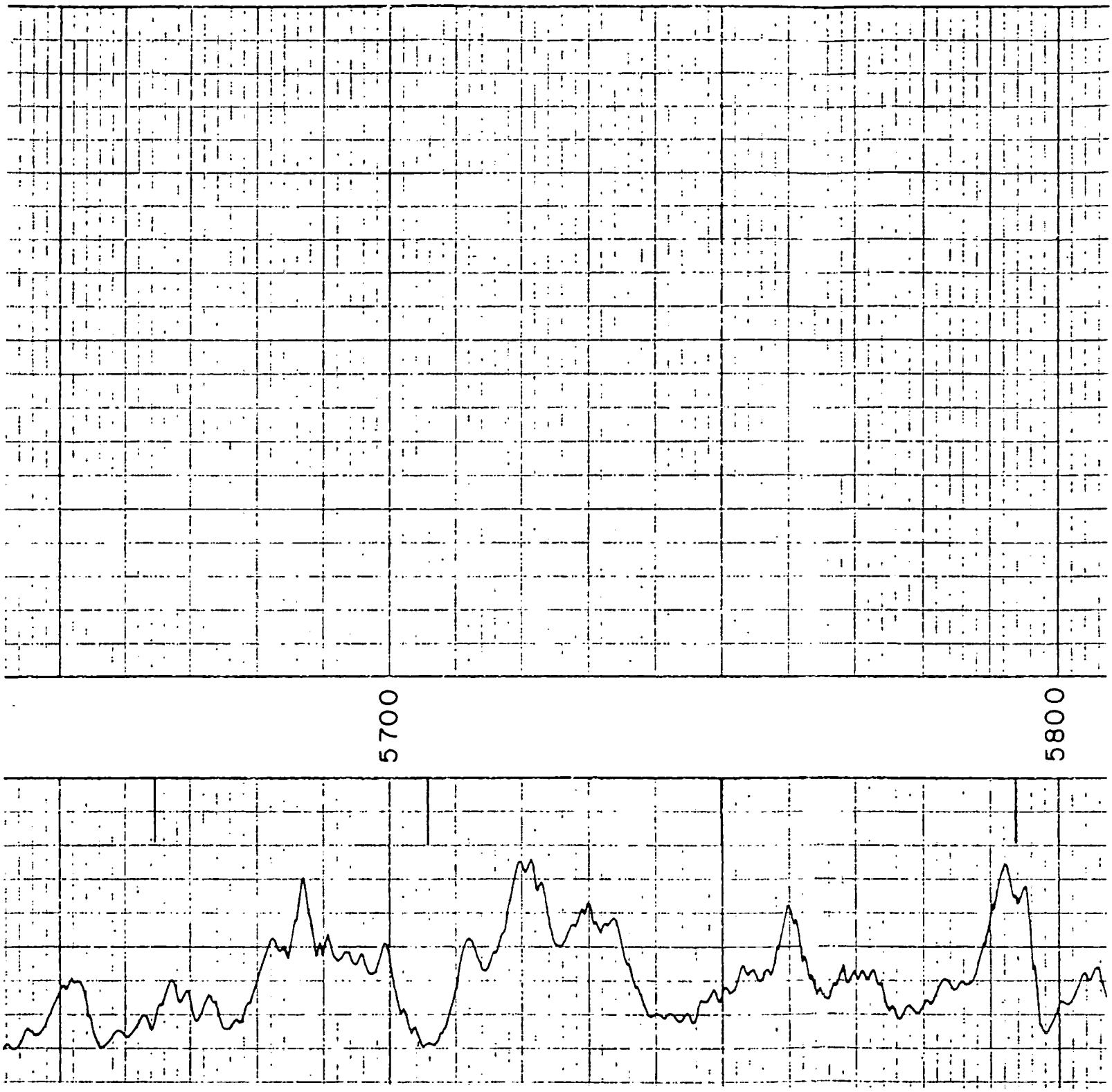
MAR02-1020



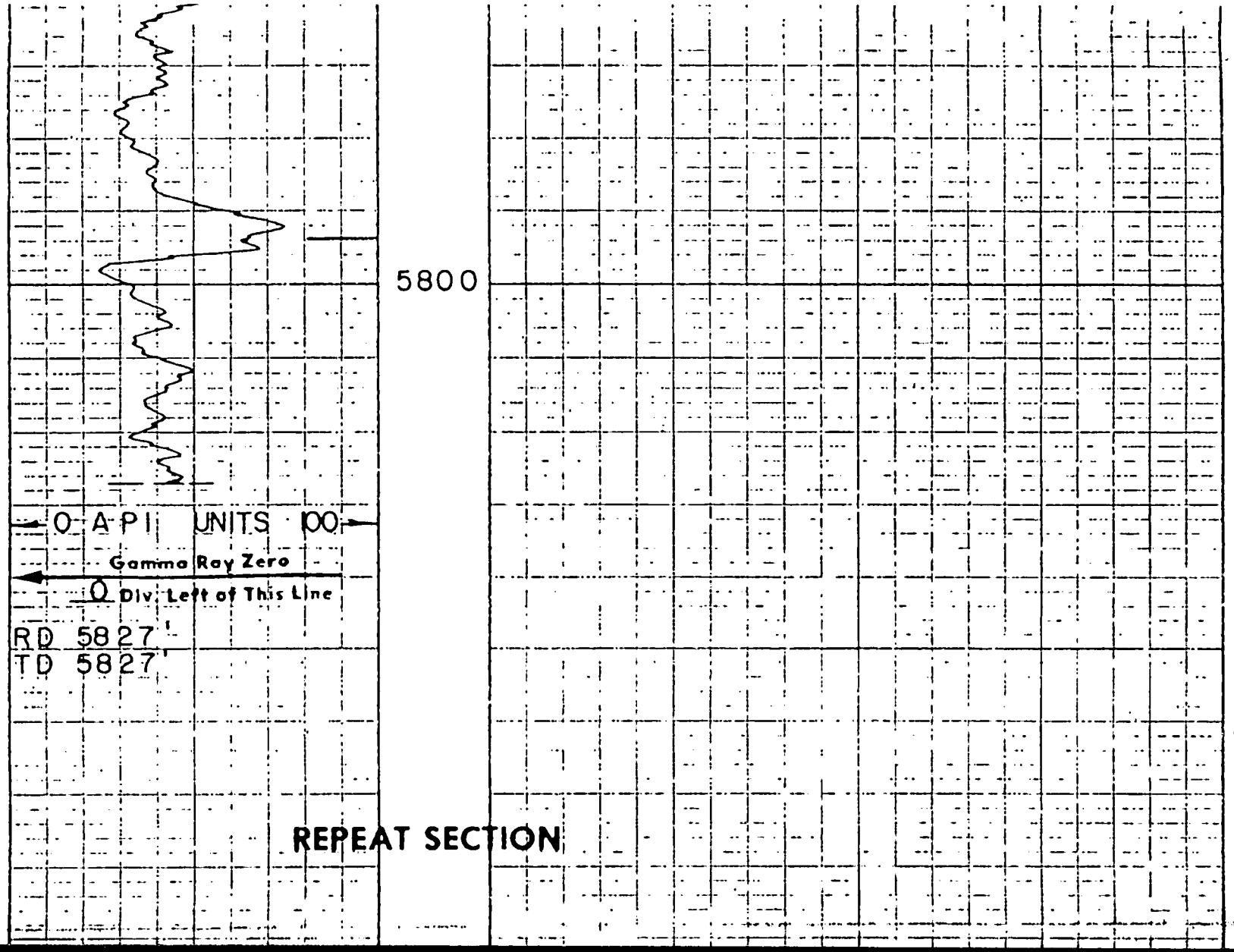
MAR02-1021



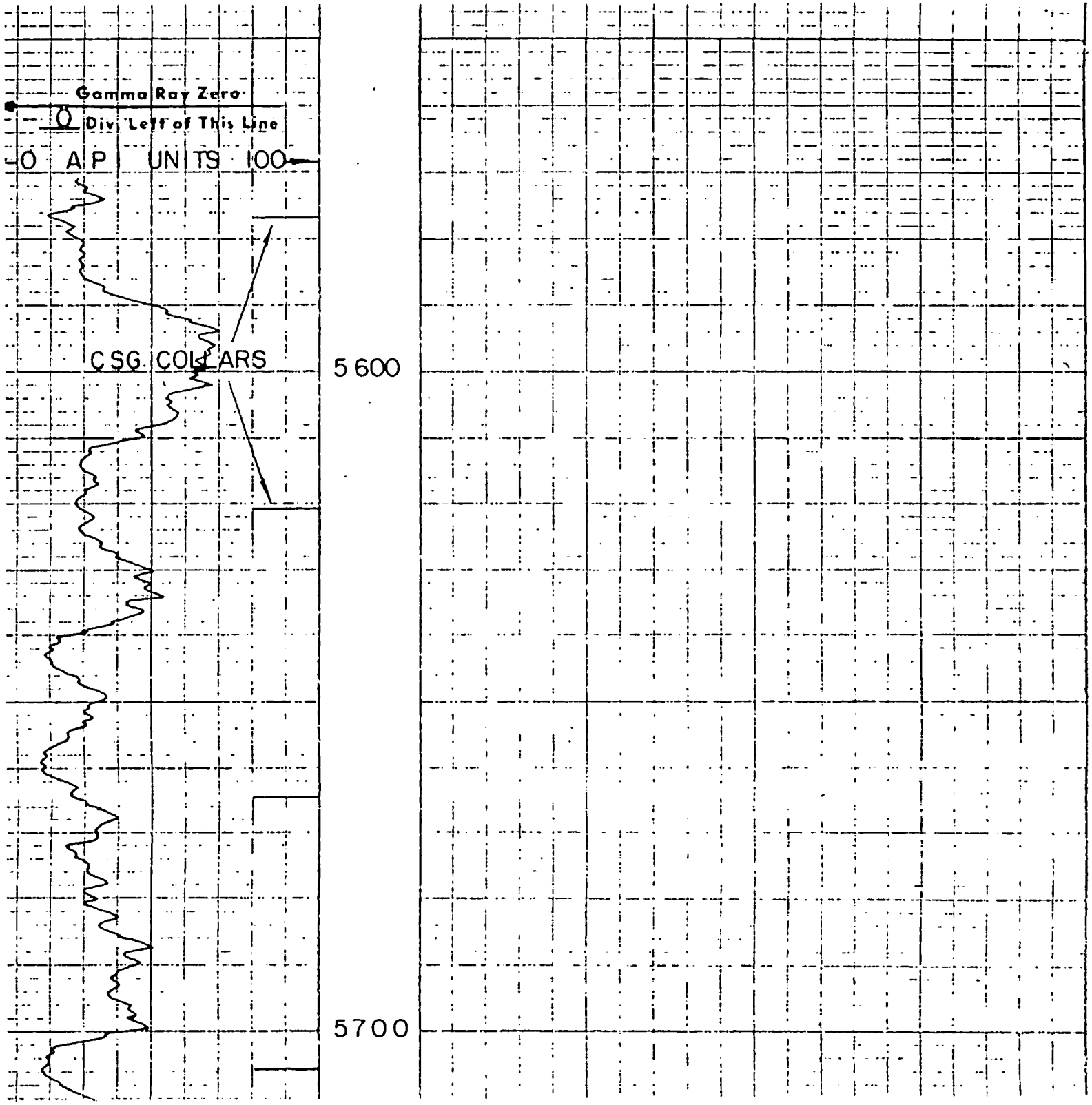
MAR02-1022



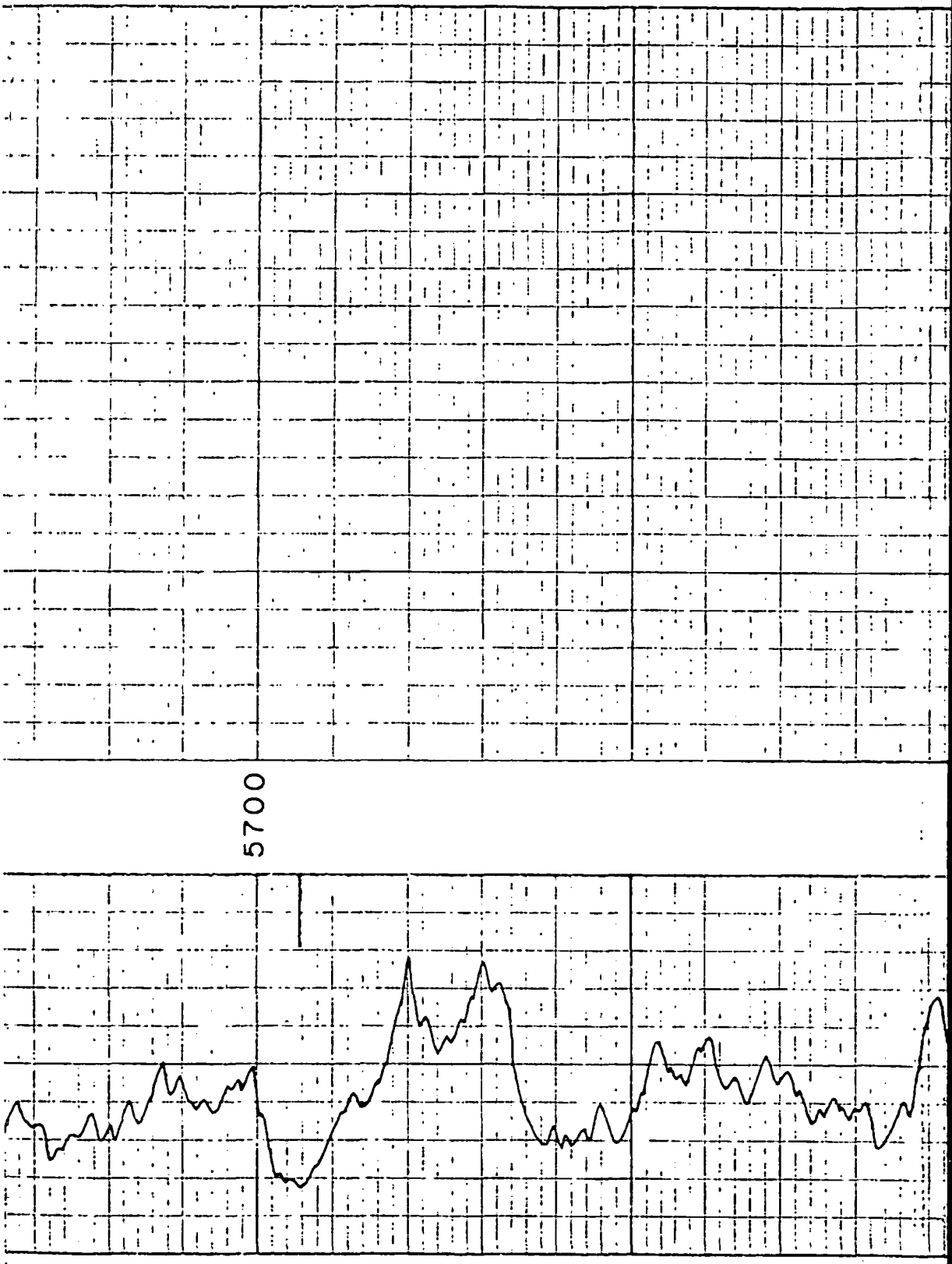
MAR02-1023


5800
0 API UNITS 100
Gamma Ray Zero
0 Div. Left of This Line
RD 5827'
TD 5827'
REPEAT SECTION

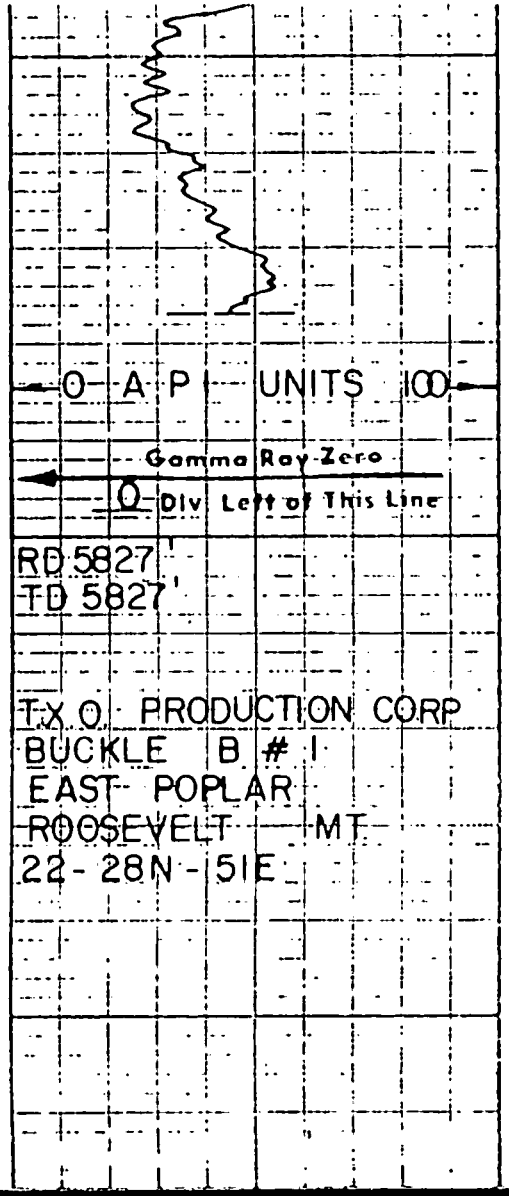
MAR02-1024


Gamma Ray Zero
0 Div. Left of This Line
0 API UNITS 100
CSG. COLLARS
5600
5700

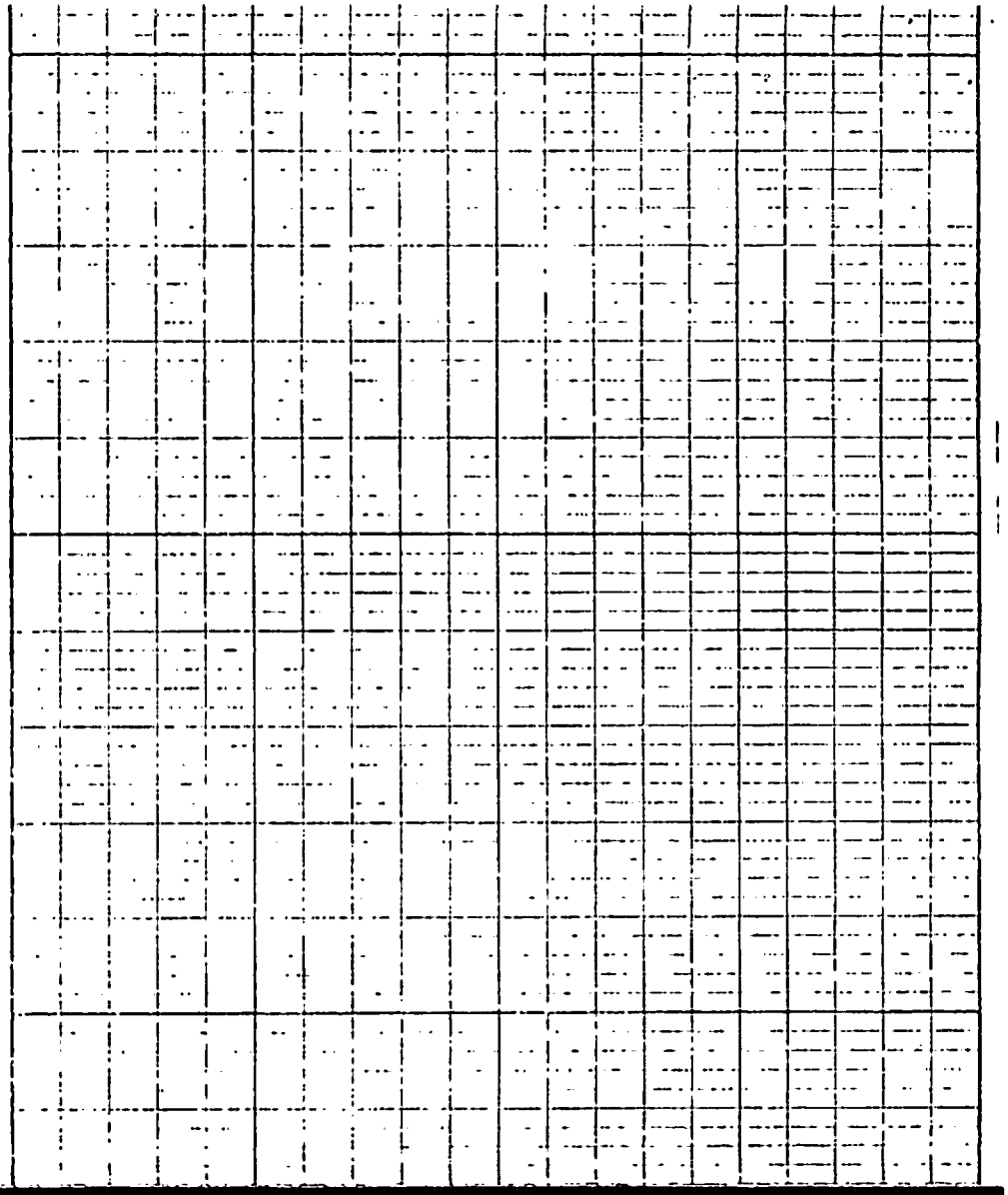
MAR02-1025



MAR02-1026



5800



MAR02-1027

Called
10-3-84

Mesa Petro
Called Tuckette
will look for
Dist charts.

Rec'd
10-9-84

MAR02-1244

CHECK SHEET

Date May 4, 1970

Company MESA PETROLEUM COMPANY P. O. BOX 2009 AMARILLO, TEXAS 79105

Well Name BIERE No. 1-22

County ROOSEVELT Field WILDCAT

Location 1980 FSL 660 FWL (C NW SW) Sec. 22 Twp. 28N Rge. 51E

Permit No.	
Receipt No.	
Drilling Fee	$75.00
Intention to Drill	4-29-70 (Approved 5-4-70)
API No.	085-21047
Permit Expiration Date	
Permit Extended 90 days	From ____ To ____
$5,000 one well bond	
$5,000 blanket bond	
$10,000 blanket bond	X
Government Well	
Sundry Notices	Int to abandon 7-23-84
" "	Ast's 1, 2, 3: 10-9-84 Compl. 6-8-70
" "	
" "	IPF 516 BOPD TD 5845 PB 5803
Log of Well	✓ 7-15-70
Subsequent Report of Abandonment 10-1-84 ✓	P&A 9-17-84
Electric Log	✓ Laterolog
Radioactive Log 2 sets 5-28-70	✓ Microlaterolog
	✓ Neutron Porosity Log
	✓ Movable Oil Plot
	Cement Bond Log
	Perf. Depth Control

MAR02-1245

LOCATE WELL CORRECTLY

660'

1980' o

Form No. 4
(Gen. Rule 206.3 & 231)

(SUBMIT IN TRIPLICATE)
TO
OIL AND GAS CONSERVATION COMMISSION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

LOG OF WELL

12

'ompany Mesa Petroleum Co. Lease Biere Well No. 1-22

.ddress Box 2009, Amarillo, Texas Field (or Area) Poplar

he well is located 1980 ft. from (N) (S) line and 660 ft. from (E) (W) line of Sec. 22

ec. 22 ; T. 28N ; R. 51E ; County Roosevelt ; Elevation 2086 KB 2074 GL (D.F., R.B. or G.L.)

ommenced drilling 5-6-70, 19__; Completed 6-8-70, 19__

The information given herewith is a complete and correct record of the well. The summary on this page is for the condition f the well at the above date.

ompleted as oil (oil well, gas well, dry hole)

Signed [signature]

Title Production Superintendent

Date July 7, 1970

IMPORTANT ZONES OF POROSITY

(denote oil by O, gas by G, water by W; state formation if known)

rom	698	to	876	Judith River	W	From 5516	to 5543	Charles "A"	W
rom	3200	to	3570	Dakota	W	From 5635	to 5678	Charles "B"	W
rom	4840	to	4992	Tyler	W	From 5788	to 5805	Charles "C"	O & W
rom	5155	to	5288	Kibbey Ss.	W	From	to		

CASING RECORD

Size Casing	Weight Per Ft.	Grade	Thread	Casing Set	From	To	Sacks of Cement	Cut and Pulled from
5/8	24	J	8	741			465	none
1/2	15	J	8	5845			675	none

TUBING RECORD

Size Tubing	Weight Per Ft.	Grade	Thread	Amount	Perforations
2 7/8	6.7	J	8	5767	5791

COMPLETION RECORD

otary tools were used from 0 to 5845

able tools were used from to

otal depth 5845 ft.; Plugged back to 5803 T.D.; Open hole from to

PERFORATIONS			ACIDIZED, SHOT, SAND, FRACED, CEMENTED			
Interval From	Interval To	Number and Size and Type	Interval From	Interval To	Amount of Material Used	Pressure
791		Hydro-jet	5791		2000 gals 7 1/2% HCL	

(If P&A show plugs above)

INITIAL PRODUCTION

'ell is producing from Charles "C" zone (pool) formation.

P. 516 barrels of oil per 24 hours flowing (pumping or flowing)

150 Mcf of gas per 24 hours.

966 barrels of water per 24 hours, or 65 % W.C.

(OVER)

MAR02-1246

INITIAL PRODUCTION—(Continued)

ıitial 10-day average production _____ (bbl./day) (if taken)
ressures (if measured): Tubing 40 psi flowing; 700 psi shut-in
Casing 0 psi flowing; packer psi shut-in
ıravity 41 ° API (corrected to 60° F.)

DRILL STEM TESTS

D.S.T. No.	From	To	Tool Open (Min.)	Shut-In	F.P.	S.I.P.	Recovery	Cushion
1	4859	4985	60	1 hr	20	2486	120' VSM&O flected SW	
							1369' oil flected SW	0
2	5135	5177	120	2 hr	387	2514	180' SO&GCDM, 120' SWCO&GCDM	
							60' SMCW, 559' water, oil & gas tr,	
3	5785	5800	120	1 1/2 hr	417	2931	1140' gas, 400' oil, 120' MC oil, 160'	
							GO&M emul., 310' sulf. wtr.	

LOGS RUN

Type	Intervals From	Intervals To
laterolog-gamma	741	5840
neutron-density log	2800	5842
movable oil plat	4800	5840

FORMATION RECORD

From	To	SAMPLE AND CORE NO. AND DESCRIPTION	Top of Formation
		Judith River	698
		Eagle	1140
		Greenhorn	2343
		Muddy	2940
		Dakota Ss.	3196
		Swift	3654
		Rierdon	4102
		Piper Ls.	4361
		Amsden	4708
		Tyler	4840
		Otter	4992
		Kibbey Ss.	5154
		Kibbey Ls.	5288
		Charles	5446
		"B" Zone	5634
		Greenpoint Anhy.	5678
		"C" zone	5788
		T. D.	5845

MAR02-1247

Form No. 6

(SUBMIT IN TRIPLICATE)
TO
BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
P.O. BOX 217 HELENA, MT 59624

Oil or Gas Wells

ARM 36.22.307
ARM 36.22.1217
ARM 36.22.1242

REPORT OF PRODUCTION

(TO BE MADE BY PRODUCER)

NOV 1984
RECEIVED
OIL & GAS CONS. COMM.
STATE OF MONT.
BILLINGS

BOARD USE ONLY	
	FIL UNIT
	PROD
	CNTY

☐ 12. CHECK IF AMENDED REPORT

PRODUCER Mesa Petroleum Co.		13. WELL CLASSIFICATION CHECK ONE
ADDRESS P. O. Box 2009	7. FIELD NAME Poplar	X OIL WELLS
	8. LEASE/UNIT NAME Biere	NATURAL GAS WELLS
CITY Amarillo	9. COUNTY Roosevelt	14. LEASE STATUS
STATE Texas 5. ZIP 79189	10. ☐ CHECK IF ADDRESS CHANGE	1 NO WELLS PRODUCED
AGENT SIGNATURE [signature]	11. MONTH OF October 1984	NO WELLS SHUT IN

WELL DESCRIPTION							PRODUCTION INFORMATION			
15. WELL NUMBER	16. API NO (LAST 8 DIGITS)	17. DAYS PRODUCED	18. SEC	19. TWP	20. RGE	DO NOT USE	21. PRODUCING FORMATION	22. BBLS OF OIL / COND	23. MCF GAS @ 14.73 PSIA	24. BBLS OF WATER
BIERE										
1-22	08521047	0	22	28N	51E		Charles "C"	0	0	0
							PLUGGED AND ABANDONED 9-17-84			
							FINAL REPORT			

MAR02-1248

25. INVENTORY SUMMARY	BBLS OIL AND COND.	MCF OF GAS	BBLS OF WATER
On Hand Start of Month	83		
Produced This Month	0	0	0
Sold This Month	0	0	
Spilled This Month	0		
Flared or Vented		0	
Used on Lease	0	0	
Injected	0	0	0
Surface Pits			0
Other	83 BS&W	0	0

26. DISPOSITION INFORMATION	Bbls or MCF
BUYER Getty	-0- Bbls.
TRANSPORTER Getty	
BUYER	
TRANSPORTER	
BUYER	
TRANSPORTER	
BUYER	
TRANSPORTER	

NOTE: [illegible] in reports covering operations in each lease must be filed with the Helena office of the Board of Oil and Gas Conservation by the 20th day of each calendar month for the month covered by the report.

OK

Form No. 2

NOTICE
THIS FORM BECOMES A PERMIT WHEN STAMPED APPROVED BY AN AGENT OF THE BOARD.

(SUBMIT IN QUADRUPLICATE)

TO

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA

BILLINGS OR SHELBY

MAC 36-3.18(10)-S18020
MAC 36-3.18(10)-S18030
MAC 36-3.18(10)-S18140
MAC 36-3.18(10)-S18170
MAC 36-3.18(10)-S18200
MAC 36-3.18(10)-S18310
MAC 36-3.18(10)-S18330
MAC 36-3.18(14)-S18380

RECEIVED OCT 1984 OIL & GAS CONS. COMM. STATE OF MONT. BILLINGS

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill		Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment Producer	X
Notice of Intention to Pull or Alter Casing		Supplementary Well History	
Notice of Intention to Abandon Well		Report of Fracturing	

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

September 26, 1984

Following is a {notice of intention to do work / report of work done} on land {owned / leased} described as follows:

LEASE Biere

MONTANA (State) Roosevelt (County) Poplar (Field)

Well No. 1-22 C NW SW 22 (m. sec.) 28N (Township) 51E (Range) (Meridian)

The well is located 1980 ft. from {X N / S} line and 660 ft. from {X E / W} line of Sec. 22

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is 2086' KB

READ CAREFULLY **DETAILS OF PLAN OF WORK** READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing.)

DETAILS OF WORK
RESULT

Subject well was plugged on 9/17/84 as follows: squeezed perfs at 5791' with 50 sxs cement. Top of cement at 5760'. Perforated tubing at 5750', spotted 30 sxs cement inside and outside of tubing from 5435' to 5750'. Perforated tubing from 993'-996' and pumped 50 sxs cement down tubing, pumped 85 sxs cement down 5-1/2" production casing. Pumped 220 sxs cement down 8-5/8" surface casing. Cut off casing 4' below ground level. Welded cap on 8-5/8" casing, dumped 10 sxs cement on top of cap. All casing and tubing was left in well.

MAR02-1249

LOCATION INSPECTED & APPROVED:

Approved subject to conditions on reverse of form

Date AUG - 5 1986

By Claire F. Haughey by
District Office Agent Title

Company Mesa Petroleum Co.

By Randy Z Nordman

Title Regulatory Agent

Address P.O. Box 2009, Amarillo, TX 79189

BOARD USE ONLY
API WELL NUMBER

2	5					
STATE		COUNTY		WELL		

NOTE:—Reports on this form to be submitted to the appropriate District for approval

WHEN USED AS PERMIT TO DRILL, PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL IF WELL NOT SPUDDED OR EXTENSION REQUESTED.

OVER

Form No. 2

GENERAL RULES
201, 202, 213,
216, 219, 233.1

(SUBMIT IN QUADRUPLICATE)
TO
OIL AND GAS CONSERVATION COMMISSION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

NOTICE
THIS FORM BECOMES A PERMIT WHEN STAMPED APPROVED BY AN AGENT OF THE COMMISSION.

MAR02-1250

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill	X	Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment	
Notice of Intention to Pull or Alter Casing		Supplementary Well History	
Notice of Intention to Abandon Well		Report of Fracturing	

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

April 29, 1970

Following is a {notice of intention to do work / ~~report of work done~~} on land {~~XXXXXX~~ / leased} described as follows:

LEASE BIERE

MONTANA (State) ROOSEVELT (County) WILDCAT (Field)

Well No. 1-22 C NW SW (m. sec.) 28N (Township) 51E (Range) (Meridian)

The well is located 1980 ft. from {~~XXX~~ / S} line and 660 ft. from {~~XX~~ / W} line of Sec. 22

LOCATE ACCURATELY ON PLAT ON BACK OF THIS FORM THE WELL LOCATION, AND SHOW LEASE BOUNDARY

The elevation of the derrick floor above the sea level is not available

READ CAREFULLY **DETAILS OF PLAN OF WORK** READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work, particularly all details results Shooting, Acidizing, Fracturing.)

DETAILS OF WORK
RESULT

It is proposed to drill a 12 1/4 inch hole to approximately 700 feet and set 8 5/8 inch casing and cement to GL. A 7 7/8 inch hole will be drilled to 5900 feet, total depth, using conventional mud and logged and tested. If well is considered economic, 4 1/2 inch casing will be run and cemented. If well is dry, it will be plugged according to the rules and regulations of the Montana Conservation Commission.

AMOUNT RECEIVED $75.00
DRILLING PERMIT NO. 55532
RECEIPT NO. 7782

CORES AND CUTTINGS TO BE DELIVERED TO COMMISSION FIELD OFFICE IN ACCORDANCE WITH RULE NO. 230.

Approved subject to conditions on reverse of form

Date 5-4-70

By [signature] District Office Agent Title

Company MESA PETROLEUM CO.

By [signature] J. L. Farrell

Title Prod. Supt.

Address ~~XXXXX~~ Box 2009, Amarillo, Texas 7910

COMMISSION USE ONLY
API WELL NUMBER
25 015 21647
STATE COUNTY WELL

NOTE:—Reports on this form to be submitted to the District Agent for Approval in Quadruplicate.

WHEN USED AS PERMIT TO DRILL, THIS EXPIRES 90 DAYS FROM DATE OF APPROVAL.

OVER

3 REPORTER PRTG. & SUPPLY CO.

Form No. 9

GENERAL RULES
201, 202, 213,
216, 219, 233.1

(SUBMIT IN QUADRUPLICATE)

TO

OIL AND GAS CONSERVATION COMMISSION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

NOTICE
THIS FORM BECOMES A PERMIT, WHEN STAMPED APPROVED BY AN AGENT OF THE COMMISSION.

OIL & GAS CONSERVATION COMMISSION STATE OF MONTANA HELENA

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill		Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment	
Notice of Intention to Pull or Alter Casing		Supplementary Well History	
Notice of Intention to Abandon Well		Report of Fracturing	
		REPORT OF CHANGE OF OPERATOR	XX

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

Notice of Change of Operator — August 21, 1972

Following is a {~~notice of intention to do work~~ / ~~report of work done~~} on land {~~owned~~ / leased} described as follows:

LEASE Biere

MONTANA (State) Roosevelt (County) Poplar (Field)

Well No. I-22 22 (m. sec.) 28N (Township) 51E (Range) (Meridian)

The well is located 1980 ft. from {~~XXX~~ / S} line and 660 ft. from {~~XXX~~ / W} line of Sec. 22

LOCATE ACCURATELY ON PLAT ON BACK OF THIS FORM THE WELL LOCATION, AND SHOW LEASE BOUNDARY

The elevation of the derrick floor above the sea level is 2086' K.B.

READ CAREFULLY — **DETAILS OF PLAN OF WORK** — READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work, particularly all details results Shooting, Acidizing, Fracturing.)

DETAILS OF WORK
RESULT

Effective July 1, 1972, the No. 1-22 Biere operated by

AMARCO RESOURCES CORPORATION, 611 Midland Bank Building, Billings, Montana.

MAR02-1251

Approved subject to conditions on reverse of form

Date August 28, 1972

By [signature] District Office Agent — Title

Company John Snyder

By [signature]

Title Operator

Address 611 Midland Bank Building
Billings, Montana 59101

COMMISSION USE ONLY
API WELL NUMBER
25
STATE COUNTY WELL

NOTE:—Reports on this form to be submitted to the District Agent for Approval in Quadruplicate

WHEN USED AS PERMIT TO DRILL, THIS EXPIRES 90 DAYS FROM DATE OF APPROVAL.

OVER

REPORTER PRTG. & SUPPLY CO.

Form No. 2

GENERAL RULES
201, 202, 213,
216, 219, 233.1

(SUBMIT IN QUADRUPLICATE)

TO

OIL AND GAS CONSERVATION COMMISSION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

NOTICE
THIS FORM BECOMES A PERMIT WHEN STAMPED APPROVED BY AN AGENT OF THE COMMISSION.

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill		Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment	
Notice of Intention to Pull or Alter Casing		Supplementary Well History	
Notice of Intention to Abandon Well		Report of Fracturing	
		Report of Change of Operator	XX

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

April 12, 1972

Following is a {~~notice of intention to do work~~ / ~~report of work done~~} on land {~~owned~~ / leased} described as follows:

Notice of Change of Operator

LEASE Biere

MONTANA (State) Roosevelt (County) Poplar (Field)

Well No. 1-22 22 (m. sec.) 28N (Township) 51E (Range) (Meridian)

The well is located 1980 ft. from {~~N~~ / S} line and 660 ft. from {~~E~~ / W} line of Sec. 22

LOCATE ACCURATELY ON PLAT ON BACK OF THIS FORM THE WELL LOCATION, AND SHOW LEASE BOUNDARY

The elevation of the derrick floor above the sea level is ~~XXXX~~ 2086 KB

READ CAREFULLY **DETAILS OF PLAN OF WORK** READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work, particularly all details results Shooting, Acidizing, Fracturing.)

DETAILS OF WORK
RESULT

Effective April 1, 1972, the 1-22 Biere operated by Mr. John Snyder, Billings, Montana.

MAR02-1252

Approved subject to conditions on reverse of form

Date May 3, 1972

By [illegible] District ~~Office Agent~~ Title

Company Mesa Petroleum Co.

By [signature]

Title Operations Superintendent

Address Box 2009, Amarillo, Texas 79105

COMMISSION USE ONLY
API WELL NUMBER
2 | 5
STATE COUNTY WELL

NOTE:—Reports on this form to be submitted to the District Agent for Approval in Quadruplicate

WHEN USED AS PERMIT TO DRILL, THIS EXPIRES 90 DAYS FROM DATE OF APPROVAL.

OVER

Form No. 2

GENERAL RULES
201, 202, 213,
218, 219, 230,
231, 232

(SUBMIT IN QUADRUPLICATE)

TO

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA

BILLINGS OR SHELBY

NOTICE
THIS FORM BECOMES A PERMIT WHEN STAMPED APPROVED BY AN AGENT OF THE BOARD.

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill		Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment	
Notice of Intention to Pull or Alter Casing		Supplementary Well History	
Notice of Intention to Abandon Well		Report of Fracturing	
		Report of Change of Operator	X

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

December 14, 1976

Following is a {notice of intention to do work / report of work done} on land {owned / leased} described as follows:

LEASE Biere

MONTANA (State) Roosevelt (County) Poplar (Field)

Well No. 1-22 22 (m. sec.) 28N (Township) 51E (Range) (Meridian)

The well is located 1980 ft. from {~~N~~ / S} line and 660 ft. from {~~E~~ / W} line of Sec. 22

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is 2086' KB

READ CAREFULLY **DETAILS OF PLAN OF WORK** READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing.)

DETAILS OF WORK
RESULT

Effective December 1, 1976, the No. 1-22 Biere will be operated by

MESA PETROLEUM CO., P.O. Box 2009, Amarillo, Texas 79105.

MAR02-1253

Approved subject to conditions on reverse of form

Date [illegible]

By [illegible]
District Office Agent Title

Company Mesa Petroleum Co.

By S. E. Dobler

Title Supervisor, Drilling & Production

Address P.O. Box 2009
Amarillo, Texas 79105

BOARD USE ONLY
API WELL NUMBER

2 5
STATE COUNTY WELL

NOTE:—Reports on this form to be submitted to the appropriate District for approval

WHEN USED AS PERMIT TO DRILL, PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL IF WELL NOT SPUDDED OR EXTENSION REQUESTED.

OVER

Form No. 2

NOTICE
THIS FORM BECOMES A PERMIT WHEN STAMPED APPROVED BY AN AGENT OF THE BOARD.

(SUBMIT IN QUADRUPLICATE)
TO
BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

RECEIVED JUL 1984 OIL & GAS CONS. COMM. STATE OF MONT. BILLINGS

MAC 36-3.18(10)-S18020
MAC 36-3.18(10)-S18030
MAC 36-3.18(10)-S18140
MAC 36-3.18(10)-S18170
MAC 36-3.18(10)-S18200
MAC 36-3.18(10)-S18310
MAC 36-3.18(10)-S18330
MAC 36-3.18(14)-S18380

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill		Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment	
Notice of Intention to Pull or Alter Casing		Supplementary Well History	
Notice of Intention to Abandon Well Producer	X	Report of Fracturing	

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

July 18, 1984

Following is a {notice of intention to do work} on land {owned} described as follows:

LEASE Biere

MONTANA (State) Roosevelt (County) Poplar (Field)

Well No. 1-22 CNWSW 22 (m. sec.) 28N (Township) 51E (Range) (Meridian)

The well is located 1980 ft. from {N (S)} line and 660 ft. from {E (W)} line of Sec. 22

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is 2086 KB

READ CAREFULLY — DETAILS OF PLAN OF WORK — READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing.)

DETAILS OF WORK
RESULT

Subject well is currently uneconomic to produce, and Mesa Petroleum Co. is proposing to plug subject well as follows: Well drilled to TD of 5845'; 5 1/2" casing set at 5845'. Well perforated at 5791'. Propose to set cast iron bridge plug at 5750', spot 25 sxs cement plug above CIBP. Perforate 5 1/2" casing 50' below 8 5/8" surface casing set at 741'. Squeeze 5 1/2" production casing with 50 sxs cement, leaving 20 sxs cement inside 5 1/2" casing. Spot 10 sxs cement plug at surface, set dry hole marker.

MAR02-1254

LOCATION INSPECTED & APPROVED:

Approved subject to conditions on reverse of form

Date JUL 23 1984

By Claire Humphrey
District Office Agent Title

Company Mesa Petroleum Co.

By Randy J. Nordeen

Title Regulatory Coordinator

Address P. O. Box 2009/Amarillo, Texas 79189

806-376-1000

BOARD USE ONLY
API WELL NUMBER
2 | 3
STATE COUNTY WELL

NOTE:—Reports on this form to be submitted to the appropriate District for approval

WHEN USED AS PERMIT TO DRILL, PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL IF WELL NOT SPUDDED OR EXTENSION REQUESTED.

OVER

XC: MOGCC(0+4).CEN RCDS.ACCTG.WELL FILE.RZN.DENVER.PARTNERS

FLUID SAMPLER DATA

Sampler Pressure 50 P.S.I.G. at Surface

Recovery: Cu. Ft. Gas .1

cc. Oil 800

cc. Water 1400

cc. Mud -0-

Tot. Liquid cc. 2200

Gravity 41 ° API @ 60 °F.

Gas/Oil Ratio 20 cu. ft./bbl.

	RESISTIVITY		CHLORIDE CONTENT
Recovery Water	.31 @ 90	°F.	17500 ppm
Recovery Mud	@	°F.	
Recovery Mud Filtrate	@	°F.	ppm
Mud Pit Sample	@	°F.	
Mud Pit Sample Filtrate	.14 @ 60	°F	62,000 ppm
Mud Weight	10.7	vis 52	cp

Date 5/24/70 Ticket Number 283316

Kind of Job OPEN HOLE Halliburton District GLENDIVE

Tester C. MOREY Witness MR. GRAHAM

Drilling Contractor CALVERTS DRILLING RIG #22

EQUIPMENT & HOLE DATA LC

Formation Tested Charles

Elevation 2086' KB Ft.

Net Productive Interval 10' Ft.

All Depths Measured From Kelly Bushing

Total Depth 5800' Ft.

Main Hole/Casing Size 7.875"

Drill Collar Length 469' I.D. 2.50"

Drill Pipe Length 5280' I.D. 3.826"

Packer Depth(s) 5777' -5785' Ft.

Depth Tester Valve 5752' Ft.

Cushion TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke	Bottom Choke
	None Ft.	None	.25"	.75"

Recovered 400 Feet of free oil (45 BBLS.)

Recovered 120 Feet of mud cut oil (50% oil (1.7 BBLS.) gas)

Recovered 160 Feet of gas - oil - mud - emulsion (.96 BBLS.)

Recovered 310 Feet of formation water - grey in color. (1.86 BBLS.)

Recovered Feet of (Sulphur) - (1140' of gas in pipe above recovery)

Remarks Opened tool for a 15 minute first flow weak (½") to strong in 10 minutes. Closed tool for a 30 minute first closed in pressure. Reopened tool for a 120 minute second flow weak blow (½") to strong in 20 minutes (bottom of 5 gallon bucket) remained strong for duration of 120 minutes. Closed tool for a 90 minute final closed in pressure.

TEMPERATURE	Gauge No. 675 Depth: 5753 Ft.		Gauge No. 385 Depth: 5796 Ft.		Gauge No. Depth: Ft.		TIME	
	12 Hour Clock		12 Hour Clock		Hour Clock		Tool Opened 2:05 P.M.	
Est 221 °F.	Blanked Off No		Blanked Off Yes		Blanked Off			
Actual °F.	Pressures		Pressures		Pressures		Tool Closed 6:20 P.M.	
	Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic	3391	3384	3414	3394				
First Period Flow Initial	23	28	46	53			—	—
First Period Flow Final	140	133	139	139			15	15
First Period Closed in	2956	2954	2954	2949			30	30
Second Period Flow Initial	140	142	139	155			—	—
Second Period Flow Final	396	410	417	412			120	120
Second Period Closed in	2933	2954	2931	2943			90	90
Third Period Flow Initial							—	—
Third Period Flow Final								
Third Period Closed in								
Final Hydrostatic	3368	3366	3392	3357			—	—

MAR02-1255

RECEIVED OCT 1 84 OIL & GAS CONS. COMM. STATE OF MONT. BILLINGS

Legal Location Sec. - Twp. - Rng. 22 28N 51E

Lease Name MESA BIEVE

Well No. 1-22

Test No. 3

Field Area WILDCAT

Tested Interval 5785' - 5800'

County ROOSEVELT

State MONTANA

Lease Owner/Company Name MESA PETROLEUM COMPANY

FORMATION TEST DATA

FLUID SAMPLER DATA

Sampler Pressure 16 P.S.I.G. at Surface
Recovery: Cu. Ft. Gas trace
cc. Oil 100-trace mud
cc. Water 2050
cc. Mud 0
Tot. Liquid cc. 2150
Gravity ____ ° API @ ____ °F.
Gas/Oil Ratio ____ cu. ft./bbl.

	RESISTIVITY		CHLORIDE CONTENT
Recovery Water	1.10	@90 °F.	4000 ppm
Recovery Mud	.156	@ 86 °F.	
Recovery Mud Filtrate	10.00	@ 85 °F.	4500 ppm
Mud Pit Sample	.300	@66 °F.	
Mud Pit Sample Filtrate	200	@65 °F.	30,000 ppm
Mud Weight	10.3	vis 41 cp	

Date 5-19-70 Ticket Number 260318
Kind of Job OPEN HOLE Halliburton District GLENDIVE
Tester MR. ERICKSON Witness MR. TODD
Drilling Contractor CALVERT DRILLING AND PROD. RIG 22 DR

EQUIPMENT & HOLE DATA

Formation Tested Kibby
Elevation 2086' Ft.
Net Productive Interval 10' Ft.
All Depths Measured From Kelly Bushing
Total Depth 5175' Ft.
Main Hole/Casing Size 7 7/8"
Drill Collar Length 4619' I.D. 3.826"
Drill Pipe Length 469' I.D. 2.50"
Packer Depth(s) 5125'-5135' Ft.
Depth Tester Valve 5102' Ft.

Cushion TYPE AMOUNT Ft. Depth Back Pres. Valve Surface Choke .25" Bottom Choke .75"

Recovered	180	Feet of	slightly oil and gas cut drilling mud
Recovered	120	Feet of	slightly water cut and oil and gas cut drilling mud
Recovered	60	Feet of	slightly mud cut water with slight oil and gas
Recovered	559	Feet of	slight oil and gas cut water
Recovered		Feet of	

Meas. From Tester Valve

MAR02-1256

Remarks Opened tool for 14 minute first flow with a weak blow 1" steady. Closed tool for 89 minute first closed in pressure. Reopened tool for 17 minute second flow with a weak blow 1" steady. Closed tool for 16 minute second closed in pressure. Reopened tool for 119 minute third flow with a weak blow. 1" blow in 4 minute, 2 3/4' blow in 40 minute 4" blow in 70 minutes then decreasing to end of rest. Closed tool for 120 minute third CIP.

TEMPERATURE	Gauge No. 317	Gauge No. 195	Gauge No.
	Depth: 5113 Ft.	Depth: 5171 Ft.	Depth: Ft.
	12 Hour Clock	12 Hour Clock	Hour Clock
Est °F.	Blanked Off No	Blanked Off Yes	Blanked Off
Actual 218 °F.	Pressures	Pressures	Pressures

TIME: Tool Opened 7:00 A.M. Tool Closed 1:15 P.M.

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic		2876	2753	2727	2767				
First Period	Flow Initial	26	70	99	88			—	—
	Flow Final	115	140	113	170			15	14
	Closed in	2600	2636	2640	2660			90	89
Second Period	Flow Initial	143	152	170	197			—	—
	Flow Final	186	212	198	239			15	17
	Closed in	2355	2406	2435	2429			15	16
Third Period	Flow Initial	195	216	227	251			—	—
	Flow Final	387	427	397	453			120	119
	Closed in	2514	2557	2553	2588			-	120
Final Hydrostatic		2731	2720	2799	2746			—	—

Legal Location Sec. - Twp. - Rng. S 22-28N-51E
Lease Name BIERE
Well No. 1-22
Test No. 2
Tested Interval 5135'-5175'
Field Area WILDCAT
County ROOSEVELT
State MONTANA
Lease Owner/Company Name MESA PETROLEUM COMPANY

PRINTED IN U.S.A. FORMATION TEST DATA #1 LITTLE & ... 4/61—10, 5-69

FLUID SAMPLER DATA

Sampler Pressure 13 P.S.I.G. at Surface
Recovery: Cu. Ft. Gas 0
cc. Oil Trace
cc. Water 2150
cc. Mud 0
Tot. Liquid cc. 0
Gravity 0 ° API @ °F.
Gas/Oil Ratio 0 cu. ft./bbl.

	RESISTIVITY			CHLORIDE CONTENT
Recovery Water	.023	@ 95	°F.	12000 ppm
Recovery Mud		@	°F.	
Recovery Mud Filtrate		@	°F.	ppm
Mud Pit Sample	.090	@ .75	°F.	
Mud Pit Sample Filtrate	.090	@ 75	°F.	8,600 ppm
Mud Weight	10	vis 100+	cp	

Date 3-4-70 Ticket Number 260317
Kind of Job OPEN HOLE Halliburton District GLENDIVE
Tester MR. ERICKSON Witness MR. GRAHAM
Drilling Contractor CALVERT DRILLING AND PROD. RIG #22 DR

EQUIPMENT & HOLE DATA

Formation Tested Tyler
Elevation 2086' Ft.
Net Productive Interval 15' Ft.
All Depths Measured From Kelly Bushing
Total Depth 4885' Ft.
Main Hole/Casing Size 7 7/8"
Drill Collar Length 469' I.D. 2.50"
Drill Pipe Length 4348' I.D. 3.826"
Packer Depth(s) 4849'-4859' Ft.
Depth Tester Valve 4837' Ft.

Cushion TYPE AMOUNT Ft. Depth Back Pres. Valve Surface Choke ½" Bottom Choke .75"

Recovered 120 Feet of very slightly mud cut and oil flake-salt water.
Recovered 1369 Feet of salt water-with oil flake-12,000 PPM.
Recovered Feet of
Recovered Feet of
Recovered Feet of

Mea. From Tester Valve

Remarks Opened tool for 15 minute first flow with a weak blow, strong blow in 7 minutes. Closed tool for 31 minute first closed in pressure. Reopened tool for 59 minute second flow with a fair blow increasing to a strong blow in 5 minutes through out test. Closed tool for 60 minute second closed in pressure.

TEMPERATURE	Gauge No. 317		Gauge No. 195		Gauge No.		TIME	
	Depth: 4842 Ft.		Depth: 4881 Ft.		Depth: Ft.			
	12 Hour Clock		12 Hour Clock		Hour Clock		Tool Opened	3:30 P.M.
Est. °F.	Blanked Off No		Blanked Off Yes		Blanked Off			
Actual 216 °F.	Pressures		Pressures		Pressures		Tool Closed	6:00 A.M. P.M.
	Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic	2557	2548	2553	2566				
First Period Flow Initial	72	59	99	69			—	—
First Period Flow Final	201	229	227	275			15	15
First Period Closed in	2500	2529	2510	2548			30	31
Second Period Flow Initial	201	219	227	235			—	—
Second Period Flow Final	601	633	625	651			60	59
Second Period Closed in	2486	2527	2495	2545			60	60
Third Period Flow Initial							—	—
Third Period Flow Final								
Third Period Closed in								
Final Hydrostatic	2543	2467	2539	2486			—	—

MAR02-1257

Legal Location Sec. - Twp. - Rng. S 22-28N-51E
Lease Name
Well No.
Test No.
Field Area WILDCAT
Tested Interval
County ROOSEVELT
Lease Owner/Company Name
State MONTANA

FORMATION TEST DATA

Gauge No. 317	Depth 4842'	Clock No. 7132	12 hour	Ticket No. 260317

	First Flow Period		First Closed In Pressure			Second Flow Period		Second Closed In Pressure			Third Flow Period		Third Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0	.000	59	.000		229	.000	219	.000		633					
1	.0202	87	.0198		2478	.0708	299	.0407		2488					
2	.0404	130	.0396		2500	.1416	367	.0814		2504					
3	.0606	166	.0594		2510	.2124	437	.1221		2513					
4	.0808	193	.0792		2517	.2832	517	.1628		2519					
5	.1010	229	.0990		2520	.3540	584	.2035		2522					
6			.1188		2522	.4180	633**	.2552		2523					
7			.1386		2523			.2849		2525					
8			.1584		2525			.3256		2526					
9			.1782		2527			.3663		2527					
10			.2070		2529*			.4070		2527					
11															
12															
13															
14															
15															

Gauge No. 195	Depth 4881'	Clock No. 6863	hour 12

0	.000	69	.000		275	.000	235	.000		651					
1	.0204	147	.0206		2497	.0693	322	.0414		2507					
2	.0408	181	.0412		2519	.1386	394	.0828		2522					
3	.0612	210	.0618		2527	.2079	463	.1242		2530					
4	.0816	241	.0824		2533	.2772	529	.1656		2535					
5	.1020	275	.1030		2538	.3465	594	.2070		2538					
6			.1236		2539	.4090	651**	.2484		2540					
7			.1442		2540			.2898		2542					
8			.1648		2542			.3312		2543					
9			.1854		2543			.3726		2545					
10			.2130		2545*			.4140		2545					
11															
12															
13															
14															
15															
Reading Interval	3		3			10		6							Minutes

REMARKS: * Last interval equal to 4 minutes ** =9 minutes.

MAR02-1258

MAR02-1259

Gauge No.	317	Depth	5113'	Clock No.	7132	12 hour	Ticket No.	260318

	First Flow Period		First Closed In Pressure			Second Flow Period		Second Closed In Pressure			Third Flow Period		Third Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0	.000	70	.000		140	.000	152	.000		212	.000	216	.000		427
1	.021	97	.0611		2445	.0198	158	.0143		1892	.1355	266	.0821		2149
2	.042	109	.1222		2561	.0396	169	.0286		2132	.2710	304	.1642		2308
3	.063	122	.1833		2595	.0594	183	.0429		2220	.4065	332	.2463		2388
4	.084	130	.2444		2613	.0792	198	.0572		2296	.5420	360	.3284		2439
5	.100	140*	.3055		2621	.0990	208	.0715		2344	.6775	393	.4105		2477
6			.3666		2626	.1120	212**	.0858		2382	.8060	427****	.4926		2500
7			.4277		2629			.1001		2405			.5747		2519
8			.4888		2630			.1140		2406			.6568		2537
9			.5499		2633								.7289		2549
0			.6040		2636**								.8210		2557
11															
12															
13															
14															
15															

Gauge No.	195	Depth	5171'	Clock No.	6863	hour	12

0	.000	88	.000		170	.000	197	.000		239	.000	251	.000		453
1	.0203	142	.061		2468	.0206	187	.0139		1909	.1373	295	.0829		2176
2	.0406	142	.122		2582	.0412	197	.0278		2124	.2746	331	.1658		2338
3	.0609	156	.183		2620	.0618	211	.0417		2240	.4119	360	.2487		2421
4	.0812	159	.244		2636	.0824	227	.0556		2318	.5492	387	.3316		2470
5	.0950	170*	.305		2645	.1030	235	.0695		2366	.6865	419	.4145		2504
6			.366		2650	.1170	239***	.0834		2405	.8170	453****	.4974		2530
7			.427		2652			.0973		2425			.5803		2548
8			.488		2655			.1110		2429			.6632		2566
9			.549		2658								.7461		2578
0			.608		2660								.8290		2588
11															
12															
13															
14															
15															
Reading Interval	3		9			3		2			20		12		Minutes

REMARKS: * Last interval equal to 2 minutes **=8 minutes ***=2 minutes ****=19 minutes.

RECEIVED OIL & GAS CONS. DIV. STATE OF MONT. BILLINGS

Gauge No. 675	Depth 5753'	Clock No. 3808	12 hour	Ticket No. 283316

	First Flow Period		First Closed In Pressure			Second Flow Period		Second Closed In Pressure			Third Flow Period		Third Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0	.000	28	.000		133	.000	142	.000		410					
1	.0202	56	.0199		2903	.1355	210	.0605		2947					
2	.0404	86	.0398		2940	.2710	249	.1210		2952					
3	.0606	103	.0597		2947	.4065	289	.1815		2952					
4	.0808	124	.0796		2952	.5420	333	.2420		2952					
5	.1010	133	.0995		2952	.6775	373	.3025		2954					
6			.1194		2952	.8130	410	.3630		2954					
7			.1393		2954			.4235		2954					
8			.1592		2954			.4840		2954					
9			.1791		2954			.5445		2954					
10			.1990		2954			.6050		2954					
11															
12															
13															
14															
15															

Gauge No. 385	Depth 5796'	Clock No. 2795	12 hour

0	.000	58	.000		139	.000	155	.000		412					
1	.0192	76	.020		2922	.1335	215	.0601		2938					
2	.0384	97	.040		2936	.2670	255	.1202		2943					
3	.0576	113	.060		2945	.4005	292	.1803		2943					
4	.0768	132	.080		2947	.5340	333	.2404		2943					
5	.0960	139	.100		2947	.6675	373	.3005		2943					
6			.120		2947	.8010	412	.3606		2943					
7			.140		2949			.4201		2943					
8			.160		2949			.4808		2943					
9			.180		2949			.5409		2943					
10			.200		2949			.6010		2943					
11															
12															
13															
14															
15															
Reading Interval	3		3			20		9							Minutes

REMARKS:

MAR02-1260

SPECIAL PRESSURE DATA

HALLIBURTON SERVICES
A DIVISION OF HALLIBURTON COMPANY

DALLAS, TEXAS 75284
DIRECT ANY CORRESPONDENCE TO
P.O. DRAWER 1431
DUNCAN, OKLAHOMA 73536

PAGE 1 OF 2 PAGES

INVOICE NO. 960533

WELL AND FARM: -22 BIERE	COUNTY: ROOSEVELT	STATE: MONTANA	DATE: 9-15-84
SOLD TO: MESA PETROLEUM	OWNER: SAME	DUNCAN USE ONLY	
ADDRESS: P.O. BOX 2009	CONTRACTOR: NONE	LOCATION 1: GLENDIVE	CODE: 55580
CITY, STATE, ZIP: AMARILLO TEXAS 79189	SHIPPED VIA: CO. VEHICLE	LOCATION 2:	CODE:
	DELIVERED TO: LOCATION	LOCATION 3:	CODE:
22-28N-51E	ORDER NO:	BULK MATERIAL DELIVERY TICKET NO: B-395790	
	WELL TYPE: OIL WORK OVER		CODE: OW
	TYPE AND PURPOSE OF JOB: PLUG TO ABANDON		

SEP 1984
RECEIVED
OIL & GAS CONS. COMM.
STATE OF MONT.
BILLINGS

TERMS: INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE. UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED CUSTOMER AGREES TO PAY INTEREST THEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE BUT NEVER TO EXCEED 18% PER ANNUM IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT. CUSTOMER AGREES TO PAY COLLECTION COSTS AND ATTORNEY FEES IN THE AMOUNT OF 20% OF THE AMOUNT OF THE UNPAID ACCOUNT.

PRICE REFERENCE	SECONDARY REF OR PART NO	CODE L	CODE D	DESCRIPTION	UNITS 1 QTY	UNITS 1 MEAS	UNITS 2 QTY	UNITS 2 MEAS
100-115				MILEAGE	125	mi		
009-019				PUMP CHARGE	500	ft		

AS PER ATTACHED B TICKET NO. 395790

TAX REFERENCES

SL

AS JOB SATISFACTORILY COMPLETED?
AS OPERATION OF EQUIPMENT SATISFACTORY?
AS PERFORMANCE OF PERSONNEL SATISFACTORY? AH016

[signature] CUSTOMER OR HIS AGENT

[signature] HALLIBURTON OPERATOR

MAR02-1261

HALLIBURTON SERVICES
A DIVISION OF HALLIBURTON COMPANY

P.O. BOX 6101
DALLAS, TEXAS 75284
DIRECT ANY CORRESPONDENCE TO
P.O. DRAWER 1431
DUNCAN, OKLAHOMA 73536

PAGE 1 OF 3 PAGES

INVOICE NO. 1[illegible]

WELL NO. AND FARM: 22 Biere	COUNTY: Roosevelt	STATE: Montana	DATE: 9-14-84
CUSTOMER: esa Petroleum	OWNER: Same	DUNCAN USE ONLY	
ADDRESS: P Box 2009	CONTRACTOR: Well Tech	LOCATION 1: Glendive	CODE: [illegible]
CITY, STATE, ZIP: Bonilla, Tx 79189	SHIPPED VIA: Holco	LOCATION 2:	CODE:
	DELIVERED TO: Location	LOCATION 3:	CODE:
22-28N-51E	ORDER NO.: A4016	BULK MATERIAL DELIVERY TICKET NO. B-395778	
	WELL TYPE: wildcat		CODE: [illegible]
	TYPE AND PURPOSE OF JOB: Plug to abandon		

SEP 1984 RECEIVED OIL & GAS CONS. COMM. STATE OF MONT. BILLINGS

TERMS: INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE. UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED CUSTOMER AGREES TO PAY INTEREST THEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE BUT NEVER TO EXCEED 18% PER ANNUM. IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT, CUSTOMER [illegible] COLLECTION COSTS AND ATTORNEY FEES IN THE AMOUNT OF 20% OF THE AMOUNT OF THE UNPAID ACCOUNT.

PRICE REFERENCE	SECONDARY REF OR PART NO.	CODE L	CODE D	DESCRIPTION	UNITS 1 QTY	UNITS 1 MEAS	UNITS 2 QTY	UNITS 2 MEAS
20-117				MILEAGE / unit	125	mi		
11-234				Pump change 9-14-84	8	HRS		
09-019				PUMP CHARGE	5260	FT		
09-027				EXTRA HOURS	1	EA		
000-117				MILEAGE 2ND DAY	125	mi		
				BULK TICKET	395787			
				AS PER ATTACHED B TICKET NO. 395778				

TAX REFERENCES

SUBJOB SATISFACTORILY COMPLETED?
SUBOPERATION OF EQUIPMENT SATISFACTORY?
SUBPERFORMANCE OF PERSONNEL SATISFACTORY?

CUSTOMER OR HIS AGENT

HALLIBURTON OPERATOR

Thank you

MAR02-1262

MESA
PETROLEUM CO.

OCT 1984
RECEIVED
OIL & GAS CONS. COMM.
STATE OF MONT.
BILLINGS

October 3, 1984

Montana Board of Oil & Gas Conservation
2535 St. Johns Ave.
Billings, MT 59102

Attention Donna Uvelac

Subject: Biere 1-22
NWSW Sec. 22, T28N, R51E
Roosevelt County, Montana
Poplar Field

Gentlemen:

Enclosed are three copies of the DST's ran on the subject well as requested. If you have any further questions regarding this matter, please call me.

Sincerely,

Randy Nordsven

Randy Nordsven
Regulatory Agent

ksp
Enclosures

MAR02-1263

ONE MESA SQUARE / POST OFFICE BOX 2009 / AC 806 / 378-1000 / AMARILLO, TEXAS 79189-2009

HALLIBURTON

A DIVISION OF HALLIBURTON COMPANY
FORM 1906-R1

SEND ALL REMITTANCES TO
P. O. DRAWER 1431
DUNCAN, OKLAHOMA 73533

PAGE 1 OF 2 PAGES

INVOICE & TICKET NO. 283293

22-28N-51E

WELL NO. AND FARM	COUNTY	STATE	DATE
[illegible]	Roosevelt	Mont	6-5-70

OWNER	CONTRACTOR	DUNCAN USE ONLY
[illegible] Pet Co.	[illegible]	

CHARGE TO	DELIVERED TO	LOCATION	CODE
[illegible] Pet Co.		1 [illegible]	555[illegible]

ADDRESS	SHIPPED VIA	LOCATION	CODE
BOX 2009 AMARILLO, TEXAS		2	

CUST. INV. REQ. ORIG. &	REQUISITION	LOCATION	CODE
☐ 1 ☐ 2 ☐ 3 ☐ 4		3	

ORDER NO.	BULK MATERIAL DELIVERY TICKET NO.
	B-53422

TOTAL ACID - 30 DAYS	WELL TYPE	CODE
500	[illegible]	

DUNCAN USE ONLY

NO. COPIES

TYPE AND PURPOSE OF JOB: [illegible] Jet Charge "C"

TERMS: DUE BY THE 20TH OF FOLLOWING MONTH. INTERE[illegible] CHARGED AFTER 60 DAYS FROM DATE OF INVOI[illegible]

$ _____ Cash discount allowed if paid by due date.

$ _____ Tax adjustment [illegible] be deducted if discounted

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE L	CODE D	DESCRIPTION	UNITS 1 QTY.	UNITS 1 MEAS.	UNITS 2 QTY.	UNITS 2 MEAS.
R300-111				Mileage Charge	75	mi.		
R300-137				Sand proportioner	95	mi.		
R200-006				Mileage Charge - Acid	95	mi.		
				6-3-70				
R011-056				Testing Tbg. (Pump Chg.)	2	hrs.		
R011-061				Additional hours	8	hrs.		
				6-4-70				
R112-730				Operators Service Chg.	1	Tour		
				6-5-70				
R301-002				Pump Chg. max. PSI	500	hhp	3400	psi
R301-200				Sand Proportioner	4	bpm		
R305-003				Hydro-jet tool rental	1	ea.		
R305-300				Tbg. holddown	1	ea.		
				— Continued Ticket				
				SERVICE CHARGE ON MATERIALS RETURNED		CU. FT.		
				SERVICE CHARGE N/A		CU. FT.		
500-214				5,000 TOTAL WEIGHT 120 LOADED MILES	300.00	TON MILES		

TAX REFERENCES

SU

WAS JOB SATISFACTORILY COMPLETED? _____

WAS OPERATION OF EQUIPMENT SATISFACTORY? _____

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

X _____
Customer or His Agent

J. D. [illegible]
Halliburton Operator

MAR02-1264

HALLIBURTON SERVICES

A DIVISION OF HALLIBURTON COMPANY
FORM 1906-R1

SEND ALL REMITTANCES TO
P. O. DRAWER 1431
DUNCAN, OKLAHOMA 78533

PAGE 1 OF ____ PAGES

INVOICE & TICKET NO. 283537

22-28N-51E

WELL NO. AND FARM	COUNTY	STATE	DATE
1-22 Biere	Roosevelt	Montana	5-27-70

OWNER	CONTRACTOR	DUNCAN USE ONLY
MESA PET. CO.	Calvert Drlg. Co.	

CHARGE TO	DELIVERED TO	LOCATION	CODE
MESA Petroleum Co.		1 Glendive	55530

ADDRESS	SHIPPED VIA	LOCATION	CODE
Box 2009 Amarillo Texas		2	

CUST. INV. REQ. ORIG. &	REQUISITION	LOCATION	CODE
☐ 1 ☐ 2 ☐ 3 ☐ 4		3	

ORDER NO.	BULK MATERIAL DELIVERY TICKET NO.
	B-53413

TOTAL ACID - 30 DAYS	WELL TYPE	CODE
	Wildcat	WC

DUNCAN USE ONLY

NO. COPIES

TYPE AND PURPOSE OF JOB: Cement Production casing

TERMS: DUE BY THE 20TH OF FOLLOWING MONTH, INTEREST CHARGED AFTER 60 DAYS FROM DATE OF INVOICE

$ _____ Cash discount allowed if paid by due date.

$ _____ Tax adjustment may be deducted

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE L	CODE D	DESCRIPTION	UNITS 1 QTY.	UNITS 1 MEAS.	UNITS 2 QTY.	UNITS 2 MEAS
R-001-032				Pumping charge	5845	FT.		
R-000-117				Mileage	105	Miles		
R-030-015				Top-5-W plug				
R-023-127				Clean casing	160	FT.		
R-213-009				Mud flush	500	gals		
505-230				Halliburton Latex cement	50	SKS		
507-392				H-R-9-mixed .002 w/50 SK	9	lbs		
505-172				Halliburton light cement	675	SKS		
504-968				Hi-sol salt-mixed 3% w/625 SK per SK	230	SKS		
508-291				Gilsonite mixed 10#	6300	lbs		
				per SK w/625 SK				
				SERVICE CHARGE ON MATERIALS RETURNED		CU. FT.		
500-207				SERVICE CHARGE	1130	CU. FT.		
500-314				96284 TOTAL WEIGHT 130 LOADED MILES	6258.4	TON MILES		

TAX REFERENCES

SUI

WAS JOB SATISFACTORILY COMPLETED? _____

WAS OPERATION OF EQUIPMENT SATISFACTORY? _____

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

X _____
Customer or His Agent

O. T. Gullickson
Halliburton Operator

MAR02-1265

FOGNANI GUIBORD HOMSY & ROBERTS, LLP

CHICAGO
20 NORTH CLARK
THIRTY-SECOND FLOOR
CHICAGO, ILLINOIS 60602
TELEPHONE: (312) 596-7777
FACSIMILE: (312) 596-7788

DENVER
555 SEVENTEENTH STREET
TWENTY-SIXTH FLOOR
DENVER, COLORADO 80202
TELEPHONE: (303) 382-6200
FACSIMILE: (303) 382-6210
WWW.FGHR.COM

NEW YORK
1350 AVENUE OF THE AMERICAS
THIRTY-FIRST FLOOR
NEW YORK, NEW YORK 10019
TELEPHONE: (212) 974-0060
FACSIMILE: (212) 974-0648

April 2, 2002

RECEIVED

APR - 3 2002

Office of Enforcement
Compliance & Environmental
Justice

Mr. Nathan Wiser
United States Environmental Protection Agency
Office of Enforcement, Compliance and Environmental Justice
Technical Enforcement Program (8ENF-T)
999 18th Street, Suite 300
Denver, CO 80202-2466

Re: EPA v. Marathon Oil Co., et al., Docket No. SDWA-08-2001-33

Dear Nathan:

We are providing the enclosed documents in conjunction with Marathon's ongoing duty to supplement its original document submission, dated January 4, 2002, made pursuant to paragraph 87 of the First Amended Emergency Order. The enclosed documents, Bates Nos. MAR02-1472 through MAR02-1479, were not included in Marathon's previous submission.

If you have any questions concerning the enclosed documents or if you would like to discuss any aspect of this matter, please call me at (303) 382-6217.

Very truly yours,

Lauren C. Buehler

Lauren C. Buehler, Esq.
for FOGNANI GUIBORD HOMSY & ROBERTS, LLP

Enclosures
#16292

cc: David A. Carson, Esq.
James Eppers, Esq.
John Brown, Esq.

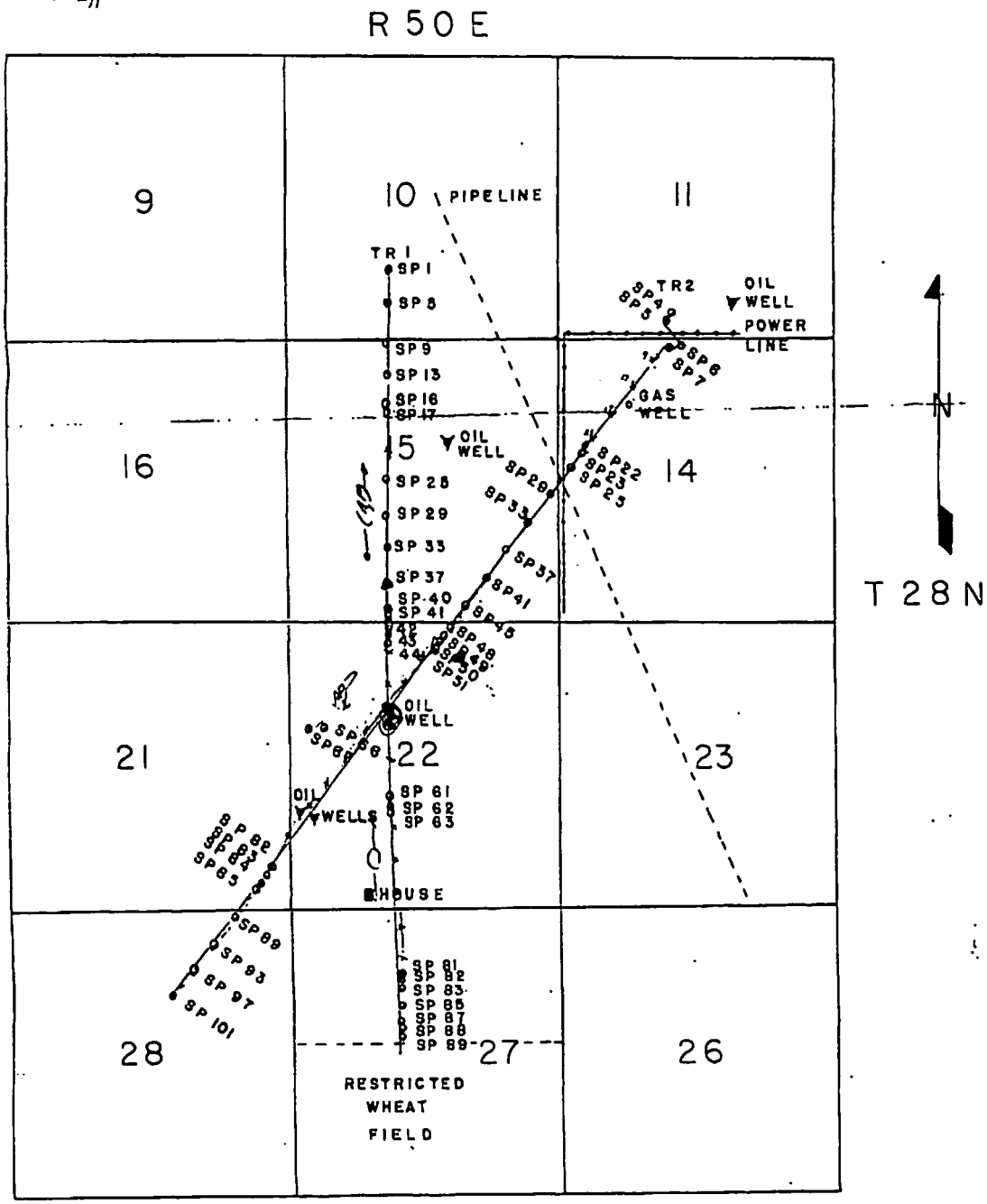
AP 1/2 East Popular.

RECEIVED
APR 3 - 2002
Office of Environmental Compliance & Environmental Justice

TEXAS OIL & GAS

NORTH EAST POPLAR
ROOSEVELT COUNTY
MONTANA

TR LINE 1 & 2
660' SP 165' GRP INT
220' HOLE 25 LBS CHARGE



MAR02-1472

TB #1 Line

RELIABLE EXPLORATION INC.

AREA _____ COUNTY ROOSEVELT STATE MONTANA DATE _____ PAGE 1

SURVEYOR DARREL MEEK RODMAN FUHRMAN HOURS _____ PARTY NO. _____

	Stadia Distance	Beaman Stress	Rod Reading	Product	Difference Elevation	H.I.	Elevation	Station Occup.	Station Obs'd.	Shot Point	Distance	Bearing	Survey & Land Owner
1.							2053.0						9/10 T 28N R51E Elev 2053.0
2.	2275.4	90°49'58"	+8.0	+33.1	+41.1	2094.1							
3.	2531.2	90°11'	-8.0	-8.1	-16.1		2078.0		1	SP1			
4.	2366.2	90°16	-8.0	-11.0	-19.0		2075.1		2				
5.	2201.2	90°18	-8.0	-11.5	-19.5		2074.6		3				
6.	2036.2	90°12	-8.0	-7.1	-15.1		2079.0		4				
7.	1871.2	90°16'	-4.4	-8.7	-13.1		2081.0		5	SP5			
8.	1704.6	90°18'	-4.4	-8.9	-13.3		2080.8		6				
9.	1539.6	90°23'	-4.4	-10.3	-14.7		2079.4		7				
10.	1374.6	90°22'	-4.4	-8.8	-13.2		2080.9		8				8+135' Sta line
11.	1209.6	90°18'	-4.4	-6.3	-10.7		2083.4		9	SP9			
12.	1044.6	90°18	-4.4	-5.5	-9.9		2084.2		10				
13.	879.6	90°10	-4.4	-2.6	-7.0		2087.1		11				
14.	714.6	90°33'	-4.4	-6.9	-11.3		2082.8		12				
15.	550.8	90°27'	-4.4	-4.3	-8.7		2085.4		13	SP13			
16.	385.8	90°35'	-4.4	-3.9	-8.3		2085.8		14				
17.	220.8	90°42'	-4.4	-2.7	-7.1		2087.0		15				
18.	55.8	91°13	-4.4	-1.2	-5.6		2088.5		16	SP16			For 17
19.	109.2	90°49	-4.4	-1.6	-6.0		2088.1		17	SP17			For 21
20.	274.2	90°35'	-4.4	-2.8	-7.2		2086.9		18				
21.	440.3	90°29'30"	-4.4	-3.8	-8.2		2085.9		19				
22.	605.3	90°27	-4.4	-4.8	-9.2		2084.9		20				

MAR02-1473

LT R #1 LINE

RELIABLE EXPLORATION INC.

AREA _____ COUNTY ROOSEVELT STATE MONTANA DATE _____ PAGE 3

SURVEYOR DARREL MEEK RODMAN FUHRMAN HOURS _____ PARTY NO. _____

	Stadia Distance	Between Stations	Rod Reading	Product	Difference Elevation	H.I.	Elevation	Station Occup.	Station Obs'd.	Shot Point	Distance	Bearing	Survey & Land Owner
1.						2094.1							
2.	770.3	90°35'	-1.4	-5.6	-10.0		2084.1		21				
3.	935.3	90°32'	-4.4	-8.7	-13.1		2081.0		22				
4.	1100.3	90°29'	-4.4	-9.3	-13.7		2080.4		23				
5.	1265.3	90°24'	-4.4	-8.8	-13.2		2080.9		24				
6.	1430.3	90°21'	-4.4	-8.7	-13.1		2081.0		25	SP25			in South ½ Sec. 15
7.	1597.8	90°21'	-4.4	-9.8	-14.2		2079.9		26				
8.	1762.6	90°22'	-4.4	-11.3	-15.7		2078.4		27				
9.	1927.8	90°21'	-4.4	-11.8	-16.2		2077.9		28				
10.	2092.8	90°21'	-4.4	-12.8	-17.2		2076.9		29	SP29			
⊡ 11.	2258.8	90°21'58"	-4.4	-14.1	-18.5		2075.6		30				
A 12.	1834.3	90°10'54"	+4.4	+5.8	+10.2	2085.8			⊡				
13.	1669.3	90°10'	-4.4	-4.9	-9.3		2076.5		31				
14.	1504.3	90°18'	-4.4	-7.9	-12.3		2073.5		32				
15.	1339.3	90°21'	-4.4	-8.2	-12.6		2073.2		33	SP33			
16.	1174.3	90°22'	-4.4	-7.5	-11.9		2073.9		34				
17.	1009.3	90°24'	-4.4	-7.0	-11.4		2074.4		35				
18.	844.3	90°27'	-4.4	-6.6	-11.0		2074.8		36				
19.	682.1	90°26'	-4.4	-5.2	-9.6		2076.2		37	SP37			
20.	517.1	90°29'	-4.4	-4.4	-8.8		2077.0		38				
21.	352.1	90°33'	-4.4	-3.4	-7.8		2078.0		39				
22.	187.1	90°44'	-4.4	-2.4	-6.8		2079.0		40	SP40			Lot 41

MAR02-1474

L. TR #1 LINE

RELIABLE EXPLORATION INC.

AREA _____ COUNTY ROOSEVELT STATE MONTANA DATE _____ PAGE 3

SURVEYOR DERREL MELK RODMAN FUHRMAN HOURS _____ PARTY NO. _____

	Stadia Distance	Bearing Stadia	Rod Reading	Product	Difference Elevation	H.I.	Elevation	Station Occup.	Station Obs'd.	Shot Point	Distance	Bearing	Survey & Land Owner
1.						2085.8							
2.	22.1	93°16'	-4.4	-1.3	-5.7		2080.1		41	SP41			For 45
3.	142.9	89°42'	-4.4	+7.5	+3.1		2088.9		42	SP42			For 49
4.	1883.4	90°34'35"	-8.0	-13.4	-21.4		2064.4						115 5122 T38N R51E 4/4 2061
5.						2082.4	2061.0						
6.	307.9	89°42'	-4.4	+1.2	-3.2		2079.2		43	SP43			For 53
7.	472.9	89°54'	-4.4	+.8	-3.6		2078.8		44	SP44			For 57
8.	637.9	89°52'	-4.4	+1.5	-2.9		2079.5		45				
9.	804.4	89°47'	-4.4	+3.0	-1.4		2081.0		46				
10.	969.4	89°49'	-4.4	+3.7	-.7		2081.7		47				
11.	1134.4	89°46'	-4.4	+4.6	+.2		2082.6		48				
12.	1299.4	89°45'	-4.4	+5.7	+1.3		2083.7		49				
13.	1465.0	89°47'	-4.4	+5.5	+1.1		2083.5		50				
14.	1630.0	89°49'	-4.4	+5.2	+.8		2083.2		51				
15.	1795.0	89°45'	-8.0	+7.8	-.2		2082.2		52				32 + 140' 0.1 West - 50' E
16.	1959.9	89°47'	-8.0	+7.4	-.6		2081.8		53				
17.	2124.9	89°44'	-8.0	+9.9	+1.9		2084.3		54				
18.	2289.9	89°44'	-8.0	+10.7	+2.7		2085.1		55				
19.	2454.9	89°45'	-8.0	+10.7	+2.7		2085.1		56				
20.	2619.9	89°45'	-8.0	+11.4	+3.4		2085.8		57				
21.	2784.5	89°46'	-8.0	+11.3	+3.3		2085.7		58				
22.	2949.5	89°44'	-8.0	+12.0	+4.0		2086.4		59				

L. TR # 1 LINE

RELIABLE EXPLORATION INC.

AREA _____ COUNTY ROOSEVELT STATE MONTANA DATE _____ PAGE 4

SURVEYOR DARREL MEEK RODMAN FUHRMAN HOURS _____ PARTY NO. _____

	Stadia Distance	Beaman Stace	Rod Reading	Product	Difference Elevation	H.I.	Elevation	Station Occup.	Station Obs'd.	Shot Point	Distance	Bearing	Survey & Land Owner
1.						2082.4							
2.	3145	89°46'	-8.0	+12.7	+4.7		2087.1		60				
3.	3279.5	89°42'	-8.0	+17.2	+9.2		2091.6		61	SP61			
4.	3441.5	89°43'	-8.0	+17.0	+9.0		2091.4		62	SP62			For 65
⊡ 5.	3611.1	89°41'18	-8.0	+19.6	+11.6		2094.1		63	SP63			For 69
△ 6.	1363.2	90°26'22	+8.0	+10.5	+18.5	2112.6			⊡				
7.	1198.2	90°24'	-8.0	-8.4	-16.4		2096.2		64				
8.	1033.2	90°16'	-8.0	-4.8	-12.8		2092.8		65				
9.	868.2	90°21'	-8.0	-5.3	-13.3		2099.3		66				
10.	703.2	90°32'	-8.0	-6.5	-14.5		2098.1		67				
11.	541.9	90°34'	-8.0	-5.4	-13.4		2099.2		68				
12.	376.9	90°26'	-8.0	-2.9	-10.9		2101.7		69				
13.	211.9	90°13'	-8.0	-8.0	-16.0		2096.6		70				
14.	46.9	86°26'	-8.0	+2.9	-5.1		2107.5		71				
15.	118.1	92°11'	-4.4	-4.5	-8.9		2103.7		72				
16.	283.1	90°38'	-4.4	-3.1	-7.5		2105.1		73				
17.	448.1	90°29'	-4.4	-3.8	-8.2		2104.4		74				
18.	613.1	90°04'	-4.4	-7.1	-11.5		2101.1		75				
19.	778.1	89°58'	-4.4	+.4	-4.0		2108.6		76				
⊡ 20.	944.3	89°53'18	-4.4	+1.8	-2.6		2110.0		77				
△ 21.	—	90°	+4.9	-	+4.9	2114.9			⊡				
22.	1165.0	89°38'	-4.4	+1.1	-3.3		2111.6		78				

MAR02-1476

S.R #1 LINE

RELIABLE EXPLORATION INC.

AREA _____ COUNTY ROOSEVELT STATE MONTANA DATE _____ PAGE 5

SURVEYOR DARREL MEEK RODMAN FUHRMAN HOURS _____ PARTY NO. _____

	Stadia Distance	Beaman Stace	Rod Reading	Product	Difference Elevation	H.I.	Elevation	Station Occup.	Station Obs'd.	Shot Point	Distance	Bearing	Survey & Land Owner
1.						2114.9							2132 2087 R51 E T25N Elev 2084.0
2.	1097.5	90°00'00"	-1.4	-26.2	-30.6		2084.3						
3.	330.0	89°38'	-1.4	+2.1	-2.3		2112.6		79				
4.	495.0	89°29'	-4.4	+4.5	+.1		2115.0		80				
5.	659.9	89°33'	-8.0	+5.2	-2.8		2112.1		81				For 79
6.	824.9	89°45'	-8.0	+3.6	-4.4		2110.5		82	SP82			For 81
7.	989.9	89°47'	-8.0	+3.7	-4.3		2110.6		83	SP83			
8.	1154.9	89°41'	-8.0	+6.4	-1.6		2113.3		84				
9.	1320.0	89°30'	-8.0	+11.5	+3.5		2118.4		85	SP85			
10.	1485.0	89°26'	-8.0	+14.7	+6.7		2121.6		86				
11.	1650.0	89°23'	-8.0	+17.8	+9.8		2124.7		87	SP87			For 89
12.	1815.0	89°18'	-8.0	+22.2	+14.2		2129.1		88	SP88			For 93
13.	1980.0	89°13'	-8.0	+27.1	+19.1		2134.0		89	SP89			37+15' Fence South
14.	2145.0	89°11'	-8.0	+30.6	+22.6		2137.5		90				
15.	2310.0	88°57'	-8.0	+42.3	+34.3		2149.2		91				
16.	2475.1	88°51'	-8.0	+49.7	+41.7		2156.6		92				
17.	2640.1	88°48	-8.0	+55.3	+47.3		2162.2		93				
18.	2805.1	88°47	-8.0	+59.6	+51.6		2166.5		94				
19.	2970.1	88°48	-8.0	+62.2	+54.2		2169.1		95				
20.	3135.1	88°49	-8.0	+64.8	+56.8		2171.7		96				
21.	3300.8	88°51'	-8.0	+66.3	+58.3		2173.2		97				
22.													

MAR02-1477

RELIABLE EXPLORATION Inc.

Project/Prospect: N. Poplar | Number: AP-1 | Line: TR-1

RECORDING OBSERVER'S REPORT

Page 1 of 2

Date & Travel Time	Identification	Environment	Instruments	Geophones	S P Pattern	Spread
Month 6, Day 20, Year 87	Client: Texas Oil & Gas	Temp:	Type shot: Scout; Sample rate: 2ms	Type: HS5; No./Group: 6; No. of groups: 2	No. of holes per shot: 1; Multiple charges: ☐	Distance between stations: 165 ft; Geophone spacing: 600 ft; Energy source: Dynamite
Leave town:	Arrive field:	Wind:	No. traces: 9; Record length: 4 sec	Frequency: 14 Hz; Separation: 14 ft; Receiver elevation:	Shot between holes:	Distance between shot points: 660 ft; Arrival offset: 10'
Leave field:	Arrive town:	Precip:	Vegetation:	GPI: 1000; Format: Seg B	Type dam: spike; Connection series/parallel: ☐ ☒; Connection series/parallel: ☐ ☐	Location across spread: ☐ ☐; Location between spreads: ☐ ☐
Party location: Roosevelt Co MT	Crew: 5; Vehicles: 16; Observer: MO				Arrangement: Inline ☐ Pattern ☐ Radial to line ☐	Offset: ft; Direction: ; Gap: 165 ft

Shot points 00's, S P location, gaps + distances, direction:

Daily Profile No	Time Recorded	Shot Point Number	Shot Point Correction to Grid	Shot Point Correction to Elev	Shot Point Elevation	Total Change	Depth Top	Depth Bot	Digital Tape Reel Number	Sequence/File Number	Positive Reading	Low Cut Hz	Hi Cut Hz	Slope (Hz/octave) L C	Slope (Hz/octave) H C	Notch In	Gain+dB Instrument	Gain+dB Trace	Binary Code Release Date	CDP Switch Amp Hi At	CDP Switch Amp Lo At	CDP Switch Div. Pos	U.H. Time	Offset Point	Offset Distance	Remarks
	Daily Tests								335	900																50mm DDS Full scale
										901																Noise
										902																DPD-22.022mm
										903																" 6.87 mm
										904																" 1.72 mm
										905																" 430 μm
										906																" 107.5 μm
										907																" 26.88 μm
										908																" 6.72 mm
										909																Connector Noise
										910																Program Test
1		1	N	4	5"	73	800	335	001	10	125		J4	86	JTP		8/1	25	37	040		040	
2		5	"	"	"	"	"	"	002	"	"		"	"	"		7/1	29	41	040		040	
3		9	"	"	"	"	"	"	003	"	"		"	"	"		7/1	33	45	040		040	
4		13	"	"	"	"	"	"	004	"	"		"	"	"		7/1	37	45	041		041	
5		16 17	"	"	"	"	"	"	005	"	"		"	"	"		8/1	42	54	091			GAP AT 18
6		17 21	"	"	"	"	"	"	006	"	"		"	"	"		1	43	61	041			
7		25	"	"	"	"	"	"	007	"	"		"	"	"		1	49	61	041		042	
8		29	"	"	"	"	"	"	008	"	"		"	"	"		6	53	65	043		042	
9		33 33	"	"	"	"	"	"	009	"	"		"	"	"		9/0	58	65	040			GAP AT 34
10		37	"	"	"	"	"	"	010	"	"		"	"	"		13	61	73	040		040	
11		40 41	"	"	"	"	"	"	011	"	"		"	"	"		18	66	78	040			GAP AT 42
12		41 45	"	"	"	"	"	"	012	"	"		"	"	"		26	73	61	035			" " 49
13		42 49	"	"	"	"	"	"	013	"	"		"	"	"		32	80	68	047			" " 56
14		43 53	"	"	"	"	"	"	014	"	"		"	"	"		39	87	75	044			" " 63
15		44 57	"	"	"	"	"	"	015	"	"		"	"	"		46	94	82	045			" " 70
16		61	"	"	"	"	"	"	016	"	"		"	"	"		37	85	73	051		050	~~" " 49~~
17		62 65	"	"	"	"	"	"	017	"	"		"	"	"		~~44~~	~~93~~	~~75~~				
18		63 69	"	"	"	"	"	"	018	"	"		"	"	"		51	46	95	046			" " 75
19		91 73	"	"	"	"	"	"	019	"	"		"	"	"		41	99	75	047			" " 65

Remarks: Detail any change from normal conditions, notes above

MAR02-1478

RELIABLE EXPLORATION Inc.

AB-1

TR-1

RECORDING OBSERVER'S REPORT

PAGE 2 OF 2

DATE & TRAVEL TIME	IDENTIFICATION	ENVIRONMENT	INSTRUMENTS	GEOPHONES	S.P. PATTERN	SPREAD
MONTH / DAY / YEAR	CLIENT	TEMP / TERRAIN	TYPE UNIT / SAMPLE RATE	TYPE / NO./STRING / NO. OF STRINGS / PATTERN WIDTH FT	NO. OF HOLES PER SHOT / MULTIPLE CHARGE ☐	DISTANCE BETWEEN GROUP STATIONS FT
LEAVE TOWN / ARRIVE FIELD / PARTY / REC. TRUCK / OBSERVER	WIND / TYPE SURFACE / NO. TRACKS / RECORD LGTH SEC	FREQUENCY Hz / SEPARATION FT / SAMPLING REDUCTION / PATTERN LGTH FT	DIST. BETWEEN HOLES / DELAY TOP TO BOTTOM	DISTANCE BETWEEN SHOT POINTS FT	SURFACE %
LEAVE FIELD / ARRIVE TOWN / PARTY LOCATION / CO / STATE	PRECIP / VEGETATION / S.P. / FORMAT	TYPE BASE / CONNECTION SERIES PARALLEL ☐ ☐ / CONNECTION SERIES PARALLEL ☐ ☐ / LOCATION HOLES ☐ BETWEEN STA ☐	ARRANGEMENT VALVE ☐ PATTERN ☐ / GENERAL TO LINE ☐	OFFSET DIRECTION GAP FT	UPHOLE OFFSET / ALIAS FILTER TYPE / FREQ

ENERGY SOURCE: GAIN TYPE ☐ AGC ☐ FIXED ☐ MAN ☐ GROUP / FIRST BREAK RELIABILITY ☐ GROUP ☐ SP

TRUCK TRACK NO'S, S.P. LOCATIONS, GAPS + DISTANCES, DIRECTION:

DAILY PROFILE	TAPE RECORDED	SHOT POINT: SHOT POINT NUMBER	SHOT TYPE	SHOT DIRECTION (N, S, E, W)	SHOT PATTERN (A, B, C, D)	TOTAL CHARGE	DEPTH TOP	DEPTH BOT	DIGITAL TAPE: REEL NUMBER	SEQUENCIAL FILE NUMBER	RECORDING FORMAT	FILTERS: LOW CUT Hz	HI CUT Hz	SLOPE DB/OCTAVE L.C.	SLOPE DB/OCTAVE H.C.	60 Hz NOTCH IN	GAIN (+DB): INITIAL	FINAL	SIGNAL DATA RELEASE DATE	CDP SWITCH: ADP 0.1 AT	ADP 1.24 AT	SW FOR	U.H. TIME	OFFSET: FEET	DIRECTION		REMARKS: DETAIL ANY CHANGE FROM NORMAL CONDITIONS NOTED ABOVE
20		82	7	N	A	75	193	200	335	020		10	125			IN	36	FP		49	36	92	040				CAP AT 77
21		83	8	~	~	~	~	~	~	021		~	~			~	~	~		55	36/37	93	047				" " 79 Hole Drilled at 84
22		85		~	~	~	~	~	~	022		~	~			~	~	~		61	36/37	95	048		047		
23		87	8	~	~	~	~	~	~	023		~	~			~	~	~		67	36/37	97	048				CAP AT 91
24		88	9	~	~	~	~	~	~	024		~	~			~	~	~		79	36/37	83	050				
25		89	7	~	~	~	~	~	~	025		~	~			~	~	~		74	36/37	97	050				

MAR02-1479

FOGNANI GUIBORD HOMSY & ROBERTS, LLP

CHICAGO
20 NORTH CLARK
THIRTY-SECOND FLOOR
CHICAGO, ILLINOIS 60602
TELEPHONE: (312) 596-7777
FACSIMILE: (312) 596-7788

DENVER
555 SEVENTEENTH STREET
TWENTY-SIXTH FLOOR
DENVER, COLORADO 80202
TELEPHONE: (303) 382-6200
FACSIMILE: (303) 382-6210
WWW.FGHR.COM

NEW YORK
1350 AVENUE OF THE AMERICAS
THIRTY-FIRST FLOOR
NEW YORK, NEW YORK 10019
TELEPHONE: (212) 974-0060
FACSIMILE: (212) 974-0648

January 4, 2002

RECEIVED

JAN - 7 2002

Office of Enforcement
Compliance & Environmental
Justice

VIA HAND DELIVERY

Mr. Nathan Wiser
United States Environmental Protection Agency
Office of Enforcement, Compliance and Environmental Justice
Technical Enforcement Program (8ENF-T)
999 18th Street, Suite 300
Denver, CO 80202-2466

Re: Production of Documents Pursuant to
First Amended Emergency Administrative Order
Docket No. SDWA-08-2001-33

Dear Nathan:

Enclosed please find Marathon Oil Company's production of documents in response to Paragraph 87 of the above-referenced order. These documents are labeled with Bates Nos. MAR02-0001 through MAR02-1471. Many of these documents also contain an additional Bates Number (with the prefix "MAR"). These documents were previously produced to the Plaintiffs in the Youpee litigation. Marathon has withheld one potentially responsive document on the basis of the attorney/client privilege and the work product doctrine. A privilege log is attached to this letter.

If you have any questions concerning the enclosed documents or if you would like to discuss any aspect of this matter, please call me at (303) 382-6207 or Mike Crimmins of our office at (303) 382-6212.

Very truly yours,

John D. Fognani
OF FOGNANI GUIBORD HOMSY & ROBERTS, LLP

JDF/beh
Enclosures
#15576
cc: Candance J. Walker, Esq. (w/o enclosures)
T. Michael Crimmins, Esq. (w/o enclosures)

FOGNANI GUIBORD HOMSY & ROBERTS
First Amended Administrative Order under Section 1431 of the SDWA, Docket No. SDWA-08-2001-33

MARATHON OIL COMPANY'S PRIVILEGE LOG

Bates No.	Date	Author	Description	Privilege
MAR02-1472 through 1473	4/29/99	M.C. Quick, HES&R Department, Marathon Oil Company	Memo to counsel from client containing case analysis requested by counsel	Attorney/client Attorney work product

TEXAS OIL & GAS CORP.
2705 MONTANA AVENUE · SUITE 300
406 · 248 · 4330
BILLINGS, MONTANA 59101

June 19, 1981

Mrs. Helen Eggebrecht
Roosevelt County Clerk
and Recorder
Box 340
Wolf Point, MT 59201

RE: Recordation of Oil & Gas Lease
Austin L. Buckles

Dear Mrs. Eggebrecht:

Please file the enclosed oil and gas lease of record at your earliest convenience. I have enclosed a check for $12.00 as recording fees. If the amount is not sufficient please call the undersigned collect and additional monies will be sent.

Return the original to the attention of the undersigned at:

Texas Oil & Gas Corp.
2705 Montana Avenue
Suite 300
Billings, MT 59101

Very truly yours,

TEXAS OIL & GAS CORP.

John P. Gilbert

John P. Gilbert
Area Landman

JPG:km
Enclosure

MAR02-0001

MAR-1

46665-000

BAO 436e
2/81 (FP)

NOTICE
THIS LEASE DOES NOT TERMINATE AUTOMATICALLY DUE TO NON-PAYMENT OF RENTALS. (SEE SECS. 5 AND 6 OF THIS LEASE).

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF INDIAN AFFAIRS

Allotment or
Roll No. 128
Lease No.
Contract No.

TRACT NO. 394
SALE NO. 78

CONTRACT NO. 14-20-0256-5439

OIL AND GAS MINING LEASE—ALLOTTED INDIAN LANDS

THIS LEASE, made and entered into in quintuplicate this 8th day of April, 19 81, by and between Austin S. Buckles and Audrey Buckles, Box 252, Poplar, MT 59255 of the Assiniboine-Sioux Tribe of Indians, lessor, and Texas Oil & Gas Corp. Fidelity Union Tower, Dallas, TX 75201 of Dallas, State of Texas 75201, lessee, WITNESSETH:

1. Lessor, in consideration of a cash bonus of $102,000.00, paid to the payee designated by the Area Director, receipt of which is hereby acknowledged, and in consideration of rents and royalties to be paid, and the covenants to be observed as herein set forth, does hereby grant and lease to the lessee the exclusive right and privilege to drill for, mine, extract, remove, and dispose of all the oil and natural gas deposits including helium gas, carbon dioxide gas, and sulphur gas in or under, the following-described tracts of land situated in the county of ~~Richland~~ Roosevelt State of Montana, and more particularly described as follows:

Township 28 North, Range 51 East
Section 22: W½NE¼

containing 80.00 acres more or less, together with the right to construct and maintain thereupon all works, buildings, plants, waterways, roads, telegraph and telephone lines, pipelines, reservoirs, tanks, pumping stations, or other structures necessary to the full enjoyment hereof for the term of 5 years from and after the approval hereof by the Secretary of the Interior and as much longer thereafter as oil and/or gas is produced in paying quantities from said land.

2. The term "oil and gas supervisor" as employed herein shall refer to such officer or officers as the Secretary of the Interior may designate to supervise oil and gas operations on Indian lands. The term "superintendent" as used herein shall refer to the superintendent or other official in charge of the Indian Agency having jurisdiction over the lands leased. Helium gas, carbon dioxide gas, sulphur gas, and other natural gases are included under the term "gas" as used in this lease.

3. In consideration of the foregoing, the lessee hereby agrees:

(a) Bond.—To furnish such bond as may be required by the regulations of the Secretary of the Interior, with satisfactory surety, or United States bonds as surety therefor, conditioned upon compliance with the terms of this lease.

(b) Wells.—(1) To drill and produce all wells necessary to offset or protect the leased land from drainage or in lieu thereof, to compensate the lessor in full each month for the estimated loss of royalty through drainage: *Provided*, That during the period of supervision by the Secretary of the Interior, the necessity for offset wells shall be determined by the oil and gas supervisor and payment in lieu of drilling and production shall be with the consent of, and in an amount determined by the Secretary of the Interior; (2) at the election of the lessee to drill and produce other wells; *Provided*, That the right to drill and produce such other wells shall be subject to any system of well spacing or production allotments authorized and approved under applicable law or regulations, approved by the Secretary of the Interior and affecting the field or area in which the leased lands are situated; and (3) if the lessee elects not to drill and produce such other wells for any period the Secretary of the Interior may, within 10 days after due notice in writing, either require the drilling and production of such wells to the number necessary, in his opinion, to insure reasonable diligence in the development and operation of the property, or may in lieu of such additional diligent drilling and production require the payment on and after the first anniversary date of this lease of not to exceed $1 per acre per annum, which sum shall be in addition to any rental or royalty hereinafter specified.

MAR02-0002

MAR-2

(c) Rental and royalty.—To pay, beginning with the date of approval of the lease by the Secretary of the Interior, a rental of $5 per acre per annum in advance during the continuance hereof, the rental so paid for any one year to be credited on the royalty for that year. (See Stipulation No. 1 - Royalty for Oil and Gas, which is attached to and made a part of this lease.)

During the period of supervision, "value" for the purposes hereof may, in the discretion of the Secretary, be calculated on the basis of the highest price paid or offered (whether calculated on the basis of short or actual volume) at the time of production for the major portion of the oil of the same gravity, and gas, and/or natural gasoline, and/or all other hydrocarbon substances produced and sold from the field where the leased lands are situated, and the actual volume of the marketable product less the content of foreign substances as determined by the oil and gas supervisor. The actual amount realized by the lessee from the sale of said products may, in the discretion of the Secretary, be deemed mere evidence of or conclusive evidence of such value. When paid in value, such royalties shall be due and payable monthly on the last day of the calendar month following the calendar month in which produced; when royalty on oil produced is paid in kind, such royalty oil shall be delivered in tanks provided by the lessee on the premises where produced without cost to the lessor unless otherwise agreed to by the parties thereto, at such time as may be required by the lessor: *Provided*, That the lessee shall not be required to hold such royalty oil in storage longer than 30 days after the end of the calendar month in which said oil is produced: *And provided further*, That the lessee shall be in no manner responsible or held liable for loss or destruction of such oil in storage caused by acts of God. All rental and royalty payments, except as provided in sections 8(a) and 4(c) shall be made by check or draft drawn on a solvent bank, open for the transaction of business on the day the check or draft is issued, to the payee designated by the Area Director. It is understood that in determining the value for royalty purposes of products, such as natural gasoline, that are derived from treatment of gas, a reasonable allowance for the cost of manufacture shall be made, such allowance to be two-thirds of the value of the marketable product unless otherwise determined by the Secretary of the Interior on application of the lessee or on his own initiative, and that royalty will be computed on the value of gas or casinghead gas, or on the products thereof (such as residue gas, natural gasoline, propane, butane, etc.), whichever is the greater.

(d) Monthly statements.—To furnish to the oil and gas supervisor monthly statements in detail in such form as may be prescribed by the Secretary of the Interior, showing the amount, quality, and value of all oil, gas, natural gasoline, or other hydrocarbon substances produced and saved during the preceding calendar month as a basis upon which to compute, for the superintendent, the royalty due the lessor. The leased premises and all wells, producing operations, improvements, machinery, and fixtures thereon and connected therewith and all books and accounts of the lessee shall be open at all times for the inspection of any duly authorized representative of the Secretary of the Interior.

(e) Log of well.—To keep a log in the form prescribed by the Secretary of the Interior of all the wells drilled by the lessee showing the strata and character of the formations passed through by the drill, which log or a copy thereof shall be furnished to the oil and gas supervisor.

(f) Diligence, prevention of waste.—To exercise reasonable diligence in drilling and operating wells for oil and gas on the lands covered hereby, while such products can be secured in paying quantities; to carry on all operations hereunder in a good and workmanlike manner in accordance with approved methods and practice, having due regard for the prevention of waste of oil or gas developed on the land, or the entrance of water through wells drilled by the lessee to the productive sands or oil or gas-bearing strata to the destruction or injury of the oil or gas deposits, the preservation and conservation of the property for future productive operations, and to the health and safety of workmen and employees; to plug securely all wells before abandoning the same and to effectually shut off all water from the oil or gas-bearing strata; not to drill any well within 200 feet of any house or barn now on the premises without the lessor's written consent approved by the superintendent; to carry out at the expense of the lessee all reasonable orders and requirements of the oil and gas supervisor relative to prevention of waste, and preservation of the property and the health and safety of workmen; to bury all pipelines crossing tillable lands below plow depth unless other arrangements therefor are made with the superintendent; to pay the lessor all damages to crops, buildings, and other improvements of the lessor occasioned by the lessee's operations: *Provided*, That the lessee shall not be held responsible for delays or casualties occasioned by causes beyond the lessee's control.

(g) Regulations.—To abide by and conform to any and all regulations of the Secretary of the Interior now or hereafter in force relative to such leases including 30 CFR 221: *Provided*, That no regulations hereafter approved shall effect a change in rate of royalty or annual rental herein specified without the written consent of the parties to this lease.

(h) Assignment of lease.—Not to assign this lease or any interest therein by an operating agreement or otherwise nor to sublet any portion of the leased premises before restrictions are removed, except with the approval of the Secretary of the Interior. If this lease is divided by the assignment of an entire interest in any part of it, each part shall be considered a separate lease under all the terms and conditions of the original lease. The provisions of this section will not operate to abridge or modify any of the rights of the land or royalty owners under section 9 of this lease.

4. The lessor expressly reserves:

(a) Disposition of surface.—The right to lease, sell, or otherwise dispose of the surface of the lands embraced within this lease under existing law or laws hereafter enacted, such disposition to be subject at all times to the right of the lessee herein to the use of so much of said surface as is necessary in the extraction and removal of the oil and gas from the land herein described.

(b) Use of gas.—The right to use sufficient gas free of charge for all stoves and inside lights in the principal dwelling house on said lands by making connection at his own expense with the well or wells thereon, the use of such gas to be at the lessor's risk at all times.

(c) Royalty in kind.—The right to elect on 30 days' written notice to take lessor's royalty in kind.

5. Surrender and termination.—The lessee shall have the right at any time during the term hereof to surrender and terminate this lease or any part thereof upon the payment of the sum of one dollar and all rentals, royalties, and other obligations due and payable to the lessor; and in the event restrictions have not been removed, upon a showing satisfactory to the Secretary of the Interior that full provision has been made for conservation and protection of the property and the proper abandonment of all wells drilled on the portion of the lease surrendered, the lease to continue in full force and effect as to the lands not so surrendered. If this lease has been recorded lessee shall file a recorded release with his application to the superintendent for termination of this lease.

6. Cancelation and forfeiture.—When, in the opinion of the Secretary of the Interior, there has been a violation of any of the terms and conditions of this lease before restrictions are removed, the Secretary of the Interior shall have the right at any time after 30 days' notice to the lessee, specifying the terms and conditions violated, and after a hearing, if the lessee shall so request within 30 days of receipt of notice, to declare this lease null and void, and the lessor shall then be entitled and authorized to take immediate possession of the land: *Provided*, That after restrictions are removed the lessor shall have and be entitled to any available remedy in law or equity for breach of this contract by the lessee.

6. (a) Lesser Interest Clause.—If the lessor owns a less interest in the above described land than the entire undivided interest therein, then the bonus, rentals and royalties stipulated herein shall be paid lessor only in the proportion which his interests bear to the whole and undivided interest in said land.

MAR-3

MAR02-0003

7. **Removal of buildings, improvements, and equipment.**—Lessee shall be the owner of and shall have the right to remove from the leased premises, within 90 days after termination of this lease, any and all buildings, structures, casing, material, and/or equipment placed thereon for the purpose of development and operation hereunder, save and except casing in wells and other material, equipment, and structures necessary for the continued operation of wells producing or capable of being produced in paying quantities as determined by the Secretary of the Interior, on said leased land at the time of surrender of this lease or termination thereof; and except as otherwise provided herein, all casing in wells, material, structures, and equipment shall be and become the property of the lessor.

8. **Relinquishment of supervision by the Secretary of the Interior.**—Should the Secretary of the Interior, at any time during the life of this instrument, relinquish supervision as to all or part of the [illegible]

CONTRACT NO. 14-20-0256-5439

STATE OF Montana)
) ss.
COUNTY OF Roosevelt)

Before me, a notary public, on this 8th day of April, 19 81, personally appeared Austin S. Buckles to me known to be the identical person who executed the within and foregoing Acceptance of Lessor by his ~~mark~~ (right thumb print) in my presence and in the presence of Verna Two Bulls and Beth Olson as witnesses, the said Audrey Buckles signing the name of Austin S. Buckles and acknowledged to me that he executed the same as his free and voluntary act and deed for the uses and purposes therein set forth.

HOWARD HELMER
NOTARY PUBLIC for the State of Montana
Residing at Billings, Montana
My Commission Expires Feb. 4, 1983

My commission expires [illegible]

Howard Helmer
Notary Public
Howard Helmer

of oil, gas, or other hydrocarbon substances.

13. **Heirs and successors in interest.**—It is further covenanted and agreed that each obligation hereunder shall extend to and be binding upon, and every benefit hereof shall inure to, the heirs, executors, administrators, successors of, or assigns of the respective parties hereto.

IN WITNESS WHEREOF, the said parties have hereunto subscribed their names and affixed their seals on the day and year first above mentioned.

Two witnesses to execution by each lessor:

Right Thumb Print [SEAL]

[illegible]

P.O. Poplar, MT

Austin S. Buckles [SEAL]

Beth Olson

P.O. Poplar, MT

Audrey Buckles [SEAL]

P.O. [SEAL]

P.O.

MAR02-0004

MAR-4

Two witnesses to execution by each lessor:

.....[SEAL]

.....

P.O. .....

.....[SEAL]

.....

P.O. .....

.....[SEAL]

.....

P.O. .....

.....[SEAL]

TEXAS OIL & GAS CORP.

Two witnesses to execution by lessee:

A.D. Carter, Jr., Senior Vice President [SEAL]

.....

P.O. .....

.....

P.O. .....

Philip A. Davenport
Assistant Secretary

Attest: .....

Philip A. Davenport

STATE OF Montana
COUNTY OF Roosevelt } ss.:

Before me, a notary public, on this 8th day of April, 19 81, personally appeared Austin S. Buckles, using his right thumb print and Audrey Buckles, his wife to me known to be the identical person who executed the within and foregoing lease, and acknowledged to me that THEY executed the same as THEIR free and voluntary act and deed for the uses and purposes therein set forth.

HOWARD HELMER
NOTARY PUBLIC for the State of Montana
Residing at Billings, Montana
My Commission Expires Feb. 4, 1982

Howard Helmer

My commission expires .....

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF INDIAN AFFAIRS

Fort Peck Agency
Poplar, Montana JUN 15 1981, 19.....

APPROVED: JUN 15 1981

Superintendent

Authority delegated by Secretarial Order No. 2508, as amended, 10 BIAM 3 and 7.

MAR02-0005

MAR-5

RECORD OWNERS, OIL AND GAS

CONTRACT NO 14-20-0256-5439

SALE NO. 78

ALLOTMENT NO 0128

SALE TRACT NO 394

(Frederick Buckles #1, EST.)

SALE DATE 121680

W½NE¼ Sec. 22-28-51, Cont. 80.00 acres

IDENT	NAME AND ADDRESS	INTEREST	D-O-B
2206A02293	BUCKLES, AUSTIN S BOX 252 POPLAR, MT 59255	1.000000	04 21 15
		1.000000	

MAR02-0006

MAR-6

STIPULATION FOR OIL AND GAS LEASE SALE NO. 78, FORT PECK RESERVATION
(December 16, 1980)

The following stipulation will be added to and made a part of each oil and gas mining lease issued in Sale No. 78 held December 16, 1980 on the Fort Peck Reservation:

Stipulation No. 1

(a) Royalty for oil. The following royalty schedule applies on production removed or sold from the leased lands: The average production per well per day for oil shall be determined pursuant to 30 CFR 221, Oil and Gas Operating Regulations.

OVER (BBLS.)	NOT OVER (BBLS.)	PERCENT OF ROYALTY	OVER (BBLS.)	NOT OVER (BBLS.)	PERCENT OF ROYALTY
-	90	16-2/3	200	250	21
90	110	17	250	300	22
110	130	18	300	350	23
130	150	19	350	400	24
150	200	20	400		25

(b) Royalty for gas. The royalty rate for gas shall be based on the standard temperature and pressure by the Oil and Gas Supervisor, United States Geological Survey. The average production per well per day for gas shall be determined pursuant to 30 CFR 221, Oil and Gas Operating Regulations.

MCF	PERCENT OF ROYALTY	MCF	PERCENT OF ROYALTY
5,000 to 6,000	16-2/3 per day per well	10,000 to 11,000	21
6,000 to 7,000	17	11,000 to 12,000	22
7,000 to 8,000	18	12,000 to 13,000	23
8,000 to 9,000	19	13,000 to 14,000	24
9,000 to 10,000	20	14,000 to 15,000	25

TEXAS OIL & GAS CORP.
2705 MONTANA AVENUE - SUITE 300
406 - 248 - 4330
BILLINGS, MONTANA 59101

July 2, 1981

Ms. Francis Eagleman
Bureau of Indian Affairs
P. O. Box 637
Poplar, Montana 59225

Re: Rehabilitation Plan
T.28N., R.51E.
Sec. 22: E½NE¼
Roosevelt County, Montana

Dear Ms. Eagleman:

Enclosed please find a Rehabilitaion Plan executed by Mr. Austin S. Buckles necessary prior to issuance of a drilling permit on the captioned acreage.

Sincerely,

TEXAS OIL & GAS CORP.

John P. Gilbert

John P. Gilbert
Area Landman

JPG:kak

MAR02-0008

MAR-8

United States Department of the Interior

GEOLOGICAL SURVEY
Conservation Division
P.O. Box 2550
Billings, Montana 59103

TEXAS OIL & GAS CORP.
BILLINGS DISTRICT

December 2, 1981

DEC 3 1981

TXO Production Corporation
2705 Montana Avenue
Suite 300
Billings, MT 59101

Re: Oil and Gas Lease Ft. Peck Al. 14-20-0256-5439

Gentlemen:

We have not yet received the reports checked below pertaining to your well No. 1 located in the NW NE Sec. 22, T. 28 N, R. 51 E, Roosevelt County, Montana.

____ Form 9-331, Sundry Notices and Reports on Wells, Notice of Intention to Abandon. (3 copies)

____ Form 9-331, Sundry Notices and Reports on Wells, Subsequent Report of Abandonment. (3 copies)

____ Form 9-330, Well Completion or Recompletion Report and Log, covering drilling operations, and well status. (2 copies)

X E-Logs - (30 CFR 221.59 requires that duplicate copies of all types of wire logs, sample logs, drilling time logs and other well surveys must be filed.) (2 copies)

X Geologists Report. (2 copies)

Please submit these reports to this office at your earliest convenience, so that our files may be completed.

Thank you.

Sincerely yours,

Thomas P. Richmond
District Supervisor

MAR02-0009

MAR-9

WF.

TXO

TXO PRODUCTION CORP.

DENVER DISTRICT
INTER-OFFICE MEMORANDUM

Date: April 13, 1984

To: Charles Canfield

From: Steve Tillman

Re: Recommendation to P & A the Buckles "A" #1, Buckles "B" #1 and the Buckles SWD well in Roosevelt County, Montana

Attached for your approval, please find the P & A package for the above referenced wells.

These 100% WI wells are currently perforated in the Madison formation and have depleted their reservoir to its economic limit. Uphole potential was evaluated and no prospects were found.

It is recommended that the Buckles "A" #1, Buckles "B" #1, and the Buckles SWD well be plugged and abandoned. TXO will realize a net salvage value of approximately $12,000.00.

S. G. T.

SGT/dek

cc: R. E. Dashner
M. D. Clouatre
P. A. Kriz

MAR02-0010

MAR-10

WF

TXO

TXO PRODUCTION CORP.
1800 LINCOLN CENTER BUILDING
DENVER, COLORADO 80264

TELEPHONE (303) 861-4246

June 1, 1984

BUREAU OF LAND MANAGEMENT
Post Office Box 940
Miles City, Montana 59301

RE: Buckles "A" #1, "B" #1, "SWD" #1
Section 22, T28N-R51E
Roosevelt County, Montana

Dear Sirs:

Attached please find Sundry Notices and Well History's on the above referenced wells.

Please call me at this office if you have any questions about these wells.

Sincerely,

TXO PRODUCTION CORP.

M. David Clouatre

M. David Clouatre
Drilling & Production Engineer

Encl.
MDC/tlw

MAR02-0011

A SUBSIDIARY OF TEXAS OIL & GAS CORP.

MAR-11

TXO

TXO PRODUCTION CORP.
1800 LINCOLN CENTER BUILDING
DENVER, COLORADO 80264

TELEPHONE (303) 861-4246

June 8, 1988

U.S. Bureau of Land Management
Miles City District Office
P.O. Box 940
Miles City, Montana 59301-0940

Re: Buckles "A" #1
Buckles "B" #1
Buckles SWD #1
Section 22-T28N-R51E
Roosevelt County, Montana

Gentlemen:

Enclosed for your information and files are Sundry Notices, submitted in quadruplicate, for the three referenced wells. These Sundries give Final Abandonment Notice, pursuant to your recent request, and should complete the administrative requirements for release of these wells from TXO Production Corp.'s Nationwide BIA oil & gas bond.

If you have any questions or need additional information, please contact me at this office.

Very truly yours,

TXO PRODUCTION CORP.

Charles K. Curlee

Charles K. Curlee
Environmental Manager

CKC/gbp

Enclosures

MAR02-0012

TEXAS OIL & GAS CORP.

MAR-12

TEXAS OIL & GAS CORP.

Inter-Office Memorandum

Date: May 11, 1981

To: A. D. Carter, Jr. - Dallas

From: R. G. Becker - Billings

Re: Authority for Expenditure
Buckles SWD Well #1
Roosevelt County, Montana

Attached for your approval is an AFE to drill, complete and equip a 950' saltwater disposal well on the Buckles "A" lease. During the five-day period ending May 11, the Buckles "A" #1 produced an average 884 BWPD along with 83 BOPD. All nearby operators have informed us their water disposal wells are unable to handle additional water, subjecting us to water trucking costs of about $2.00/Bbl - over $1700/day. We estimate operational costs for our own well will not exceed 50¢/Bbl, and at current rates the $1.50/Bbl savings will payout the $101,000 water disposal investment in 2½ months. A 3.0:1 ROI will be generated with the savings on 200,000 Bbls. of water, less than 15% of the reported water production of the Mesa Biere well immediately offsetting our Buckles "A" #1.

While you were out of town this week, Forrest Hoglund gave us verbal approval to proceed with this disposal well, and we hope to be injecting by early next week. Our proposed disposal system will be capable of handling water from at least one and possibly two additional producers similar to the Buckles "A" #1.

R. G. B.

RGB:mt

Enclosure

MAR02-0013

MAR-13

TEXAS OIL & GAS CORP.
2705 MONTANA AVENUE - SUITE 300
406 - 248 - 4330
BILLINGS, MONTANA 59101

May 20, 1981

Board of Oil & Gas Conservation
2535 St. John's Avenue
Billings, MT 59102

Re: Salt Water Disposal Well Permit
Buckles SWD #1
Sec. 22, T28N, R51E, MPM
Roosevelt County, Montana

Gentlemen:

Enclosed you will find a check in the amount of $25.00 which we inadvertently did not send with the Notice of Intention to Drill for the above well.

Thank you.

Sincerely,

TEXAS OIL & GAS CORP.

Barbara Jacobsen

Barbara Jacobsen
Production Secretary

Enclosure

MAR02-0014

MAR-14

Well file

DATE REQUESTED 5/5/81 DATE REQUIRED ASAP AMOUNT $ 25.00

PAYABLE TO: Board of Oil & Gas Conservation of the State of Montana

ADDRESS 2535 St. John's Avenue

Billings, MT 59102

FOR Salt Water Disposal Well Permit

Buckles SWD #1

Sec 22, T28N, R51EMPM

Roosevelt County, Montana

BILLING INSTRUCTIONS (TO BE COMPLETED PRIOR TO APPROVAL)

TXO.

☐ PRODUCING ASSET ACQUISITION ☐ UNDEVELOPED LEASE ACQUISITION ☐ OTHER

MEMORANDUM	ACCOUNT	T/C	LSE. NO.	WELL	AMOUNT

CHECK REQUEST

TXO

REQUESTED BY H. J. Kagie, Drlg. Engineer

APPROVED R. G. Becker

R. G. Becker, Project Mgr.

RETURN CHECK TO Texas Oil & Gas Corp.
2705 Montana Avenue, Ste. 300
Billings, MT 59101

MAR02-0015

MAR-15

TEXAS OIL AND GAS CORP.
FIDELITY UNIO[illegible]WER DALLAS, TEXAS 75201

VENDOR 590511

No. 66251

VOUCHER NUMBER	VENDOR REFERENCE INVOICE	VENDOR REFERENCE DATE	DUE VENDOR	VOUCHER NUMBER	VENDOR REFERENCE INVOICE	VENDOR REFERENCE DATE	DUE VENDOR
050141	810514	050581	25.00				
			Salt Water Disposal Well Permit Buckles SWD #1 Sec. 22, T28N, R51EMPM Roosevelt County, Montana				

TXO-146

ACCOUNTS PAYABLE

TOTAL 25.00

MAR02-0016

MAR-16

TEXAS OIL AND GAS CORP.
FIDELITY UNION TOWER DALLAS, TEXAS 75201

VENDOR 590511

No. 66251

VOUCHER NUMBER	VENDOR REFERENCE INVOICE	VENDOR REFERENCE DATE	DUE VENDOR	VOUCHER NUMBER	VENDOR REFERENCE INVOICE	VENDOR REFERENCE DATE	DUE VENDOR
050141	810514	050581	25.00				
			Salt Water Disposal Well Permit Buckles SWD #1 Sec. 22, T28N, R51EMPM Roosevelt County, Montana				

TXO-146

ACCOUNTS PAYABLE

TOTAL 25.00

TEXAS OIL & GAS CORP.

No. 66251

FIDELITY UNION TOWER DALLAS, TEXAS 75201
REGULAR ACCOUNT
FIRST NATIONAL BANK IN DALLAS
DALLAS, TEXAS

32-1
1110

DATE	AMOUNT
5/11/81	****$25.00******

PAY TO Board of Oil & Gas Conservation
State of Montana
2535 St. John's Avenue
Billings, MT 59102

J. W. Luke
AUTHORIZED SIGNATURE

⑈066251⑈ ⑆111000012⑆ 07 3369 ⑈

MAR02-0017

MAR-17

TEXAS OIL & GAS CORP.

Inter-Office Memorandum

Date: 5/20/81

To: Ron Becker
Billings, Montana

From: Donald Chase

Re: BUCKLES SWD #1
ROOSEVELT COUNTY, MONTANA

Attached is approved AFE No. 818653 to drill, complete and equipt the above referenced well.

Donald Chase

Donald Chase

DC/wb

cc: Leonard Landrum (2)
Steve Haworth
Ethel Nuttall
Lelah Sartain
Steve Graham
H. Adair
W. Webb
File

TEXAS OIL & GAS CORP.
BILLINGS DISTRICT

MAY 22 1981

TXO-81

MAR02-0018

MAR-18

TEXAS OIL & GAS CORP.
FORM 24
Rev. 9/01/79

AUTHORITY FOR EXPENDITURE
DRILLING WELL

Date May 6, 1981 A 1 1 5 Co. Cd.

District Montana/North Dakota Well Name Buckles SWD Well No. 1

Well Location Sec. 22, T28N-R51E Depth 950'

Field E. Poplar County Roosevelt State Montana

Prepared By: H. J. Kagie Submitted By: Ron Becker Dallas X District

CAT. NO.	NATURE OF EXPENDITURE	QUANTITY	ESTIMATED COST CASH	MAT.L ON HAND	TOTAL
	DRILLING				
01	Casing		200		200
02	Casinghead		---		---
03	Location, Road & Dirt Work		400		400
04	Drilling - Footage/Turnkey		---		---
05	Drilling - Daywork		12 000		12 000
06	Drilling - Rig Support		2 000		2 000
07	Bits		400		400
08	Supervision		200		200
09	Overhead		100		100
10	Mud & Chemicals		400		400
11	Cementing Services & Supplies		---		---
12	Testing & Logging		---		---
13	Rentals		300		300
14	Other IDC		---		---
15	Other Equipment		---		---
	TOTAL DRILLING		16 000		16 000
	COMPLETION				
17	Casing 7", 20#, K-55, ST&C	950'	10 600		10 600
18	Tubing 2 7/8", 6.5#, J-55, EUE, 8RD	900'	4 900		4 900
19	Wellhead		800		800
20	Subsurface Equipment		1 400		1 400
21	Supervision		200		200
22	Mud & Chemicals		200		200
23	Testing, Logging & Perforating		3 000		3 000
24	Stimulation		3 000		3 000
25	Overhead		100		100
26	Rentals		1 000		1 000
27	Service Rig		4 000		4 000
28	Cementing Services & Supplies		4 800		4 800
29	Other IDC		---		---
	TOTAL COMPLETION		34 000		34 000
	PRODUCTION EQUIPMENT				
32	Pumping Unit		---		---
33	Engine & Motor		---		---
34	Rods		---		---
35	Flow Lines		1 000		1 000
36	Meters		---		---
37	Installation		2 000		2 000
38	Storage		---		---
39	Separation & Treating		---		---
40	Other Equipment		48 000		48 000
	TOTAL PRODUCTION EQUIPMENT		51 000		51 000
	TOTALS		101 000		101 000

OWNER NAME	WORKING INTEREST	DATE APPROVED
TXO	100%	5-20-81

APPROVED:

A.D. Carter, Jr., Sr. Vice President

TEXAS OIL & GAS CORP.

MAY 15 1981

DALLAS - OPERATIONS

5/15/81

AFE No. 81-8653 Property No. 7839

MAR02-0019

MAR-19

PRAIRIE

Gamma Ray Log

FILE NO.

COMPANY TEXAS OIL AND GAS CORPORATION

WELL BUCKLES SALTWATER DISPOSAL #1

FIELD EAST POPLAR

County ROOSEVELT State MONTANA

LOCATION: 1803FNL 1853FWL
SEC. 22 TWP. 28N RGE. 51E

OTHER SERVICES
CEMENT BOND

PERMANENT DATUM G.L. ELEV. 2085
LOG MEASURED FROM K.B. 12 FT. ABOVE PERM. DATUM
DRILLING MEASURED FROM K.B.

ELEV.: K.B. 2097
G.L. 2085

		Shot Density	No. of Shots	Perforating From	Interval To
DATE	JUNE 1, 1981				
RUN NO.	ONE				
TYPE LOG	GAMMA RAY	4spf	21	785	790
DEPTH - DRILLER	850	4spf	13	724	727
DEPTH - LOGGER	858*(SEE REMARKS)	4spf	17	807	811
LOGGED INTER.	857	4spf	9	822	824
TOP LOGGED INTER.	0	4spf	29	839	846
FLUID IN HOLE	WATER				
LEVEL	FULL				
TRUCK NO.	THREE				
OPER. RIG TIME	1 HOUR				
RECORDED BY	ONEIL				
WITNESSED BY	DYK				

Gun Type G.O. TORNADO JET
and Size 2 1/8" EXPANDABLE

CASING RECORD

Size in.	Weight	From	To
7	17	SURF	920
10 3/4		SURF	30

COLLAR LOCATION

Casing	Tubing	Service	Type	Size	Depth

OTHER SERVICES

Remarks: • THIS LOG CORRELATES TO SCHLUMBERGER LOG ON BUCKLES A-1 WELL.

Previous Completion Information
Depth Control Log Yes No
Perforated Yes No From To

Gamma Ray

Gamma Ray

MAR02-0020

MAR-20

ARMCO National Production Systems
Armco Steel Corporation
Los Nietos, Calif. 90606

oilmaster
FIELD SERVICE REPORT

REPORT № 7789 43299
ORE: Williston, ND
REPRESENTATIVE: Mark H Potter
DATE: ~~5-17-81~~

file

CUSTOMER Texas Oil and Gas
LOCATION Poplar, Mont

LEASE SWD
WELL NO. 1

TROUBLE AS REPORTED	TROUBLE AS FOUND
Unable to get charge pump to work	Same

SERVICE PERFORMED OR REMARKS Before departing for location I consulted with Jim Norman at Gainesville and advised him of the situation. He stated that the charge pump we were using was undersized which in turn was causing cavitation in the triplex this in turn would cause a shock load back to the charge pump well in excess of it's rated pressure causing the case to break of the pump to leak. He recommended that we go to a 3 by 3 or 3 by 4 pump rated at 200 to 250 GPM and a shut off of 40 psi.

Upon arrival at the location I was advised by Jeff that they had decided to relocate the water tank nearer to the triplex. I then recommended that they put it as near the building as possible and come off the tank with a 4" line that had a straight shot into the triplex suction with no bends or restrictions Jeff and I then surveyed the area and agreed that this could be done with no problem. He also advised me that they would raise the tank slightly so there would be a slight downward slope to the triplex. I then departed.

~~XX~~ 9100 Jeff Dyke

PARTS USED

QUAN.	PART NO.	DESCRIPTION	UNIT	TOTAL

TIME: FROM 10:30AM O'CLOCK TO 2:00 PM O'CLOCK = ~~3½~~ HOURS @ ~~28.00~~ PER HOUR ~~98.00~~
TIME: FROM _____ O'CLOCK TO _____ O'CLOCK = _____ HOURS @ _____ PER HOUR _____
MILEAGE: FROM Williston/Loc TO Loc/Williston = 156 MILES @ ~~.55~~ PER MILE ~~85.80~~
Total Charge ~~$ 87.80~~

CUSTOMER _____ BY _____ DATE _____

ABOVE CHARGES WILL BE BILLED BY: ~~Armco National Production Systems~~
~~Bx. 2236 Williston, ND 58801~~
CHARGED:
S.O. NO. 7289-68254
D.M. NO. _____

Form No. 1053C — 100 Bks. — 181 BP

CUSTOMER'S COPY

MAR02-0021

MAR-21

ARMCO National Production Systems
Armco Steel Corporation
Los Nietos, Calif. 90606

oilmaster
FIELD SERVICE REPORT

REPORT № 7789 43298
ORE: Williston, ND
REPRESENTATIVE: Mark H Potter
DATE: 6-16-8[illegible]

CUSTOMER Texas Oil and Gas
LEASE SWD
LOCATION Poplar, Mont
WELL NO. [illegible]

TROUBLE AS REPORTED Unable to get charge pump working correctly

TROUBLE AS FOUND Same

SERVICE PERFORMED OR REMARKS Arrived on location. Jeff (Production Foreman) for Texas Oil had departed location would be back shortly. Jeff arrived and we discussed what they were trying to do with the new pump and what had gone wrong with the old one. Decided to pipe in a relief valve on the top of the pump as this would allow it to relieve before it could build up internal pressure and break the case. Spent all day piping in a 100# relief valve. Finally ready to start up, opened suction valves and water began shooting out the top of the relief valve. Decided we needed a check valve in the relief line. Broke apart all liness and installed check valve. Everything finally ready for startup. Started unit, charge pump kicked in and after less than one minute triplex was banging and charge pump was shooting fluid out the seams in the case. Shut down and proceeded to analyze problem. Decided to shut down for the day. I advised Jeff that I would call him in the morning when I had some more information for him.

9:00 Jeff Lyke

PARTS USED

QUAN.	PART NO.	DESCRIPTION	UNIT	TOTAL

TIME: FROM 5:00 AM O'CLOCK TO 5:00 PM O'CLOCK = 8 HOURS @ 28.00 PER HOUR $ 24.00
TIME: FROM 5:00 PM O'CLOCK TO 8:00 PM O'CLOCK = 3 HOURS @ 42.00 PER HOUR $ 26.00
MILEAGE: FROM Williston/Loc TO Loc/Williston = 156 MILES @ .55 PER MILE 85.80
Total Charge $ 135.80

CUSTOMER _____ BY _____ DATE _____

ABOVE CHARGES WILL BE BILLED BY: Armco National Production Systems
CHARGED:
S.O. NO. 7789-69204
D.M. NO. _____
Box 2236 Williston, ND 58801

Form No. 1053C — 100 Bks. — 161 BP

CUSTOMER'S COPY

MAR02-0022

MAR-22

TEXAS OIL & GAS CORP.
2705 MONTANA AVENUE - SUITE 300
406 - 248 - 4330
BILLINGS, MONTANA 59101

June 19, 1981

Oil & Gas Commission
Dept. of Natural Resources & Conservation
2535 St. John's Avenue
Billings, MT 59102

Re: Buckles "SWD" No. 1 Well
Sec. 22, T28N, R51E
Roosevelt County, Montana

Dear Sir:

Enclosed is the "Well Completion Report" on the subject well.

Sincerely,

TEXAS OIL & GAS CORP.

H. J. Kagie

H. J. Kagie
Drilling Engineer

HJK/blj
Enclosure

cc: File, HJK, LAH

MAR02-0023

MAR-23

TEXAS OIL & GAS CORP.
2708 MONTANA AVENUE · SUITE 300
406 · 248 · 4330
BILLINGS, MONTANA 59101

June 29, 1981

U.S. Dept. of Interior
Geological Survey
P.O. Box 2550
Billings, MT 59103

Attn: District Engineer

Re: Buckles "SWD" No. 1 Well
Sec. 22, T28N, R51E
Roosevelt County, Montana

Dear Sir:

Enclosed is the "Well Completion Report" on the subject well.

Sincerely,

TEXAS OIL & GAS CORP.

H. J. Kagie

H. J. Kagie
Drilling Engineer

HJK/blj
Enclosure

cc: File, HJK, LAH

MAR02-0024

MAR-24

File Copy

TEXAS OIL & GAS CORP.

Inter-Office Memorandum

Date August 4, 1981

To: A.D. Carter, Jr. - Dallas

From: R.G. Becker

Re: AFE Supplement
Buckles SWD #1

Attached for your review is the AFE Supplement for the actual costs incurred to drill and complete the subject well. The total cost is $224,948, which is $125,948 over the approved AFE estimate.

The reasons for this large amount of over-expenditure are explained below:

Drilling - Initial plans called for the 950' disposal well to be drilled with a well service rig using a power swivel and rental pump. Rig time was estimated at 3 days to drill and set casing, and 2 days to run completion equipment. After slowly drilling for 3 days, operations were suspended at 280 ft. until the rig contractor could deliver pump and power swivel equipment adequately sized to do the job. The contractor failed to do this and was released. Within 3 days a small drilling rig was moved in and the hole had to be washed out from a depth of 90 ft. Five days were required to reach TD of 960' due to several rental pump failures - 6 pumps were used during the job.

Completion - Production casing was run without incident, but during cementing a pressure surge inadvertently fractured the Judith River disposal aquifer at 900 ft., resulting in a water flow which contaminated the cement. A total of 1700 sx of cement and mud were pumped during a 4 day period to finally seal off the surface water flow. The 7" casing was left full of cement which had to be drilled out, while cement bond logs and casing perforating also contributed to the costs. At last, heavy spring rains caused rig standby time and transportation difficulties due to muddy roads.

Production Equipment - The over-expenditure on installation costs are related to increased labor time due to the very muddy location.

Although these over-expenditures are major, the cost of the Buckles SWD No. 1 will pay out in 5 months by reducing the lease salt water disposal costs by at least $1.50 per bbl. of water.

R.G.B.

RGB/blj
Attachment

TXO-61

MAR02-0025

MAR-25

Form 24
Rev. 9/01/70

AUTHORITY FOR EXPENDITURE
DRILLING WELL

Date August 6, 1981 A Co. Cd.

District MONTANA/NORTH DAKOTA Well Name BUCKLES SWD Well No. 1

Well Location T37N, R8E, M.P. MS 33 Depth 960'

Field E. POPLAR County ROOSEVELT State MONTANA

Prepared By: J.O. Dyk LAH Submitted By: R.G. Becker RGB Dallas X District

CAT. NO.	NATURE OF EXPENDITURE	QUANTITY	ACTUAL CASH	ESTIMATED COST APPROVED AFE MAT'L ON HAND	SUPPLEMENTAL TOTAL
	DRILLING		650	200	450
01	Casing				
02	Casinghead				
03	Location, Road & Dirt Work		3 500	400	3 100
04	Drilling - Footage/Turnkey				
05	Drilling - Daywork		58 870	12 000	46 870
06	Drilling - Rig Support		21 187	2 000	19 187
07	Bits		2 500	400	4 100
08	Supervision		250	200	50
09	Overhead		100	100	------
10	Mud & Chemicals		11 970	400	11 570
11	Cementing Services & Supplies				
12	Testing & Logging				
13	Rentals		8 500	300	8 200
14	Other IDC				
15	Other Equipment				
	TOTAL DRILLING		107 527	16 000	93 527
	COMPLETION				
17	Casing		9 234	10 600	(1 366)
18	Tubing		6 383	4 900	1 483
19	Wellhead		800	800	------
20	Subsurface Equipment		2 767	1 400	1 367
21	Supervision		200	200	------
22	Mud & Chemicals		100	200	(100)
23	Testing, Logging & Perforating		8 500	3 000	5 500
24	Stimulation		2 000	3 000	(1 000)
25	Overhead		100	100	------
26	Rentals		------	1 000	(1 000)
27	Service Rig		4 000	4 000	------
28	Cementing Services & Supplies		29 537	4 800	24 737
29	Other IDC				
	TOTAL COMPLETION		63 621	34 000	29 621
	PRODUCTION EQUIPMENT				
32	Pumping Unit				
33	Engine & Motor				
34	Rods				
35	Flow Lines		1 900	1 000	900
36	Meters		400	----	400
37	Installation		3 500	2 000	1 500
38	Storage				
39	Separation & Treating				
40	Other Equipment		48 000	48 000	------
	TOTAL PRODUCTION EQUIPMENT		53 800	51 000	2 800
	TOTALS		224 948	101 000	125 948

OWNER NAME	WORKING INTEREST	DATE APPROVED
TXO	100%	

APPROVED:

A.D. Carter, Jr., President

MAR02-0026

AFE No. 81-8653 SUPPLEMENT Property No. 7839

MAR-26

WILLISTON ND 58801

ARMCO National Supply Company
Division of Armco Inc.

EXTRA COPY
National Production Systems

P.C.	T.C.	INVOICE DATE	INVOICE NUMBER	CUSTOMER CODE	DATE DEL'D OR SHIP'D	RECEIVING STORE
54	22		7789 - 58204	8967500	8/12/81	

CUSTOMER ORDER NO.

ORDERED BY OR REQN. NO.: Jeff Dyke

SOLD TO: TEXAS OIL & GAS CORP
OE6 31012
2705 MONTANA AVE SUITE 300
BILLINGS MT 59101

FARM OR LEASE: Salt Water Disposal

WELL OR RIG: #1

SHIP TO: Same

SHIP VIA: Co. Truck

TAX STATUS: 0

TAX LOC: 2700

PREPAID ☐ COLLECT ☐

F.C.

SHIP TO: Poplar, Mont

	PRODUCT OR ITEM CODE	QUANTITY	UNIT MEAS	DESCRIPTION	UNIT PRICE	AMOUNT
1				As per attached Field Servic		
2				e Report #7789-43298 6-16-81		
3	9100	8	ea	Hrs Labor at Regular Rate	28 00	224 00
4	9100	3	ea	Hrs labor at Overtime Rate	42 00	126 00
5	9100	156	ea	Miles	55	85 80
6						
7				As per attached Field Servic		
8				e Report#7789-43299 6-17-81		
9	9100	3 50	ea	Hrs Labor at Regular Rate	28 00	98 00
10	9100	156	ea	Miles	55	85 80
11						
12						
13						
14						
15						
16						
17						
18						
19						
20				STATE AND/OR LOCAL TAX		

CUSTOMER AGREES THAT HE IS FAMILIAR WITH SELLER'S PUBLISHED TERMS AND CONDITIONS. SELLER AGREES THAT THE MATERIAL SPECIFIED HEREIN WAS SOLD AND DELIVERED SUBJECT TO OUR PUBLISHED TERMS AND CONDITIONS. UNLESS OTHERWISE SPECIFIED, ALL INVOICES ARE DUE AND PAYABLE ON A NET BASIS ON 20TH OF MONTH FOLLOWING DATE OF INVOICE. INTEREST IS CHARGED ON ALL ACCOUNTS AFTER DUE DATE.

IF PAID IN ACCORDANCE WITH DISCOUNT TERMS DEDUCT $ .00

4613 80

MATERIAL LISTED ABOVE RECEIVED BY

X Leo C. Roth

PLEASE MAIL CHECKS TO NEAREST OF FOLLOWING LOCATIONS:
BOX 360287M, PITTSBURGH, PA. 15251
BOX 27-201, KANSAS CITY, MO. 64180
BOX 5944, DENVER, CO. 80217
BOX 1984, HOUSTON, TX. 77001
BOX 92190, LOS ANGELES, CA 90009

MAR02-0027

MAR-27