SWD 8-21-95

J.K. EDWARDS ASSOCIATES, INC.

OIL & GAS PROPERTIES

1401 17TH STREET / SUITE 1400

DENVER, COLORADO 80202

303/298-1400 FAX 303/298-0757

CERTIFIED MAIL - RETURN RECEIPT

August 2, 1995

Mr. Michael Stogner
New Mexico Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505

Re: Application to Inject
Frontier A#1 Well
SE/4 Section 8-T26N-R12W
San Juan County, New Mexico

Dear Mr. Stogner:

J. K. Edwards Associates, Inc. disires to plug back the referenced Gallup well to the Mesaverde formation and complete it as a water disposal well. The proposed injection well will be used for produced water from the Fruitland coal gas wells and Gallegos Gallup producers in the Gallegos field area.

Attached are original and one copy of the completed C-108. If additional information is required, please contact me at (303) 298-1400.

Very truly yours,

Richard L. Lewis
Contract Landman

RLL:ll
encls.

STATE OF NEW MEXICO
ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
PO BOX 2088
SANTA FE, NM 87504-2088

FORM C-108
Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: ____ Secondary Recovery ____ Pressure Maintenance __X__ Disposal ____ Storage
Application qualifies for administrative approval? __Yes ___No

II. OPERATOR: J. K. EDWARDS ASSOCIATES, INC.
ADDRESS: 1401 17TH Street, Suite 1400, Denver, CO 80202
CONTACT PARTY: Keith Edwards PHONE: (303) 298-1400

III. WELL DATA: Complete the data required on the reverse side of this form for each well processed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project: ___ Yes __X__ No
If yes, give the Division order number authorizing the project_____

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/1 or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted.)

* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: J. Keith Edwards TITLE: President

SIGNATURE:  DATE: 8/2/95

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstance of the earlier submittal. _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

APPLICATION FOR AUTHORIZATION TO INJECT
Form C-108 Supplemental Data
Frontier 1-A Well

I. Water Disposal

II. J. K. Edwards Associates, Inc.
1401 17th Street, Suite 1400
Denver, CO 80202
Contact: J. Keith Edwards (303) 298-1400

III. Well data is attached.

IV. This is not an expansion of an existing project.

V. Map with area of review is attached.

VI.

VII. Data on proposed injection operations:

1. Average injection rate - 500 bwpd
Maximum injection rate - 1000 bwpd

2. Closed system. Water would be trucked or piped into tanks on locations.

3. Average injection pressure - ~~750 psi~~ 742 MAX
Maximum injection pressure - 1100 psi

4. Produced Fruitland Coal water with TDS of 2000 to 10000 ppm will be injected into the Mesaverde zone in the Frontier #1-A well. Analyses of coal water in the area are attached.

5. Chemical analysis of water in the Mesaverde zone will be submitted after plugging back the well from its current TD of 5100' in the Gallegos Gallup zone.

VIII. Geologic and Lithologic daa on injection zone:

1. Injection zone - Point Lookout (Mesaverde) at approximately 3708' - 3922'.

2. Lithology - Point Lookout (Mesaverde) sands.

3. Overlying aquifer - Cliffhouse Menefee
Underlying aquifer - Mancos

IX. Perforate and acidize prior to injection operations.

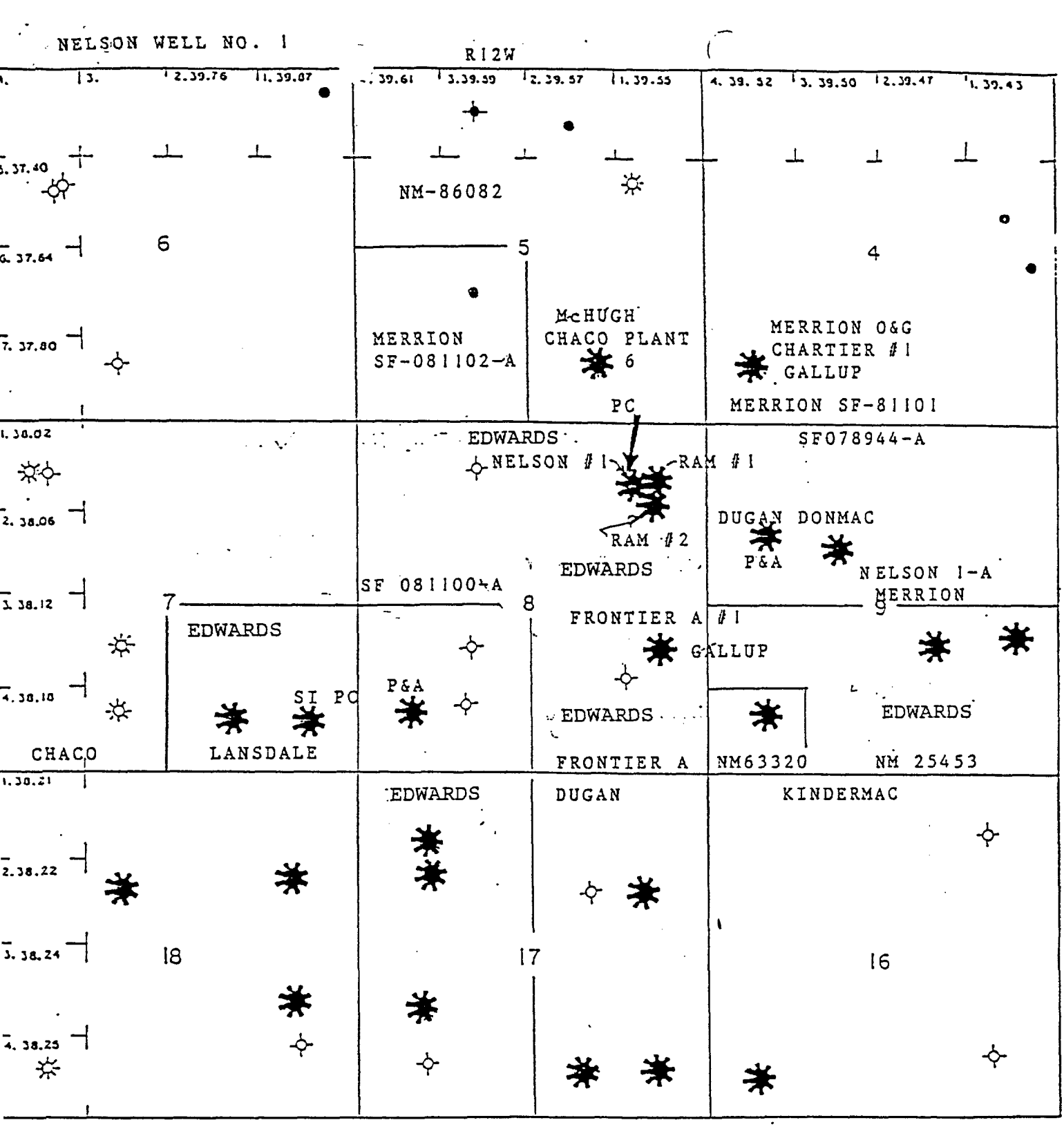
X. Logs traversing the Mesaverde zone have been submitted previously.

XI. No known sources of potable water exist in the immediate area of the well.

XII. Geologic studies of the area do not indicate fault communication between the proposed injection zone and any underground potential sources of drinking water.

XIII. Proof of notice is attached.

XIV. Certification is signed.



APPLICATION FOR AUTHORIZATION TO INJECT
FORM C-108 AREA OF REVIEW PROXIMITY MAP

INJECTION WELL DATA SHEET

Tubing Size 2-3/8" lined with _____ set in a
(type of internal coating)
_____ packer at _____ feet

Other type of tubing / casing seal if applicable _____

Other Data

1. Is this a new well drilled for injection? ____ Yes X No

   If no, for what purpose was the well originally drilled? _____

   Oil & Gas Producer-Gallup formation

2. Name of the injection formation Point Lookout (Mesaverde)

3. Name of Field or Pool (if applicable) Gallegos Gallup field

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e., sacks of cement or plug(s) used. 4892' - 4933' 2JSPF

   4995' - 5025' 2JSPF

5. Give the names and depths of any over or underlying oil of gas zones (pools) in this area.

   Fruitland, Pictured Cliffs, Mesaverde, Gallup

INJECTION WELL DATA SHEET

OPERATOR J.K. EDWARDS ASSOCIATES, INC. LEASE NM SF-080008

WELL NO. Frontier A#1 1750'FSL, 790'FEL 8 26N 12W

FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Schematic

SEE ATTACHED

* 100 SX reg
100 SX poz
50 SX Neat

Well Construction Data

Surface Casing

Size 10-3/4" * Cemented with 150 SX 3% Calc sx.

TOC surface feet determined by circulate to surf.

Hole Size 12-1/4"

Intermediate Casing

Size 7-5/8" * Cemented with see* sx.

TOC 2225' feet determined by Temp Survey

Hole Size 9-7/8"

Long String

Size 5-1/2" * Cemented with 150 SX reg & 150 SX pos sx.

TOC 3870' feet determined by top of liner

Hole Size 6-3/4"

Total Depth 5100'

Injection Interval

apx 3708 feet to apx 3922 feet

(perforated or open-hole; indicate which)

WELL NAME: FRONTIER A NO. 1

LOCATION: 1750' FSL, 790' FEL, Sec. 8, T26N, R12W
COUNTY: San Juan **STATE:** New Mexico
LEASE: SF-080008 **TYPE:** Federal **SURFACE:**
OPERATOR: J.K. EDWARDS ASSOCIATES, INC.

GLE - 5989'
KBE - 5999'
KBM - 10'

SURFACE CASING:

HOLE SIZE: 12-1/4"
CASING: 10-3/4"
CSA: 173'
CEMENT: 150 SX 3%CACL
CIRC TO SURFACE

FORMATION TOPS:

FRUITLAND:	917'
PICT CLIFFS:	1137'
LEWIS:	1453'
CLIFFHOUSE	2025'
MENEFEE:	
POINT LOOKOUT:	3708
MANCOS:	3922'
UPPER GALLUP:	4760

TOP CEMENT: 2225'
TEMP SURVEY

3870'

INTERMEDIATE CSG:

HOLE SIZE: 9-7/8"
SIZE: 7-5/8"
WT & GR: 25.4# J-55
CSA: 3930'
DEPTH: 3940'
CEMENT: 100 SX REG
100 SX POZ
50 SX NEAT

LINER:

HOLE SIZE: 6-3/4"
SIZE: 5-1/2"
WT & GR: 15.5#
LSA: (1233') 3870'-5106'
TD: 5100'

WELL DATA:

SPUD DATE: 8/08/57
ORIGINAL OWNER:EPNG/BED
IP: 1044 MCFD
ZONE: LOWER GALLUP
COMPL: SWF 40,000# SAND
WI: 100% NRI:
TUBING: 2-3/8"
ROD STRING: 3/4"
PUMP SIZE: 2 X 1-1/2"
PUMP JACK:
SPM: SL:

3708'

PERFORATIONS:

to

3922'

4897'-4933' 2JSPF
4995'-5025' 2JSPF

3940'

PROPOSED INJ. INTERVAL

CEMENT:150 SX REG,150 SX POZ

m 22-5 (Rev. 5-52)

EL PASO NATURAL GAS COMPANY

WELL COMPLETION LOG

ell Nelson #1
Name No.

Land Office Santa Fe
Lease Number 081100

asor El Paso Natural Gas Company Area Wildcat County San Juan State New Mexico

c. 8 Twp. 26N Rge. 12W 990 North South 1090 East West N.M.P.M.

evation Gr. 5963' DF 5973'

CASING RECORD

Date	Size	Depth	Cement
-7-55	9 5/8"	171'	125
-9-55	7"	5211'	200 1st stage
			200 2nd stage

tal Depth 5420'
ean Out Depth P.B. 5169'

TUBING RECORD

Date	Size	Depth
-21-55	2"	5041'

PACKER

Date
Type
Depth

FORMATION	TOPS
Fruitland	917
Pictured Cliffs	1167
Lewis	1313
La Ventana	2024
Allison	2458
Cliff House	3053
Menefee	3171
Point Lookout	3700
Upper Mancos	3910
Gallup	4775
Hospah	4868
Sanastee	5283
Lower Mancos	5367

RILL STEM TESTS:

om See remarks To Time Gage Recovery
om To Time Gage Recovery
om To Time Gage Recovery
om To Time Gage Recovery

ORE:

om See remarks To Recovery
om To
om To

HOOTING OR ACIDIZING:

om Comp. Natural To Quantity or Type Shot Gage Before
om To Quantity or Type Shot Gage Before

ERFORATIONS:

om See remarks To ; From To ; From To

URVEYS:

ELECTRIC LOGS ES 4706-5421, ML 1000-4704, ML 4707-5415, GR 950-4934, TS 100-5421, PR 4850-5028.
TEMPERATURE SURVEYS B&R @ 3710' 1st. stage, 190' 2nd stage.

ITIAL POTENTIAL:

ge 4,385 MCF/D Hours Tested Three Type Test Open Flow
FPT 100 SIPC 1317 SIPT 1315

E BACK FOR REMARKS.

-7-55 Spud date, Company tools, Rig #C-99302.
Ran 4 joints 9 5/8", 25.4#, Armco spiral weld casing (161') set at 171' with 125 sacks regular cement circulated to surface. Held 500# 30 minutes.

-10-55 DST #1: 1172-1226, op. 1 hr. 5 min., g-t-s 5 min. ggd. 108 MCF init. stab @ 124 MCF in 30 min, rec. 150' g-c-m, IFP 90#, FFP 120#, SIP 295# in 30 min. HH 560#.
DST #2: 1227-1314, op. 1 hr. 10 min. wk. blow air immed. decreased to vy wk in 1 hr. by passed, no inc. in 10 min. SI 30 min. rec. 360' sl.g & fr) w-c-m, IFP 60#, FFP 235#, SIP 295#, HH 595#.

-12-55 Tight Hole.

-15-55 DST #3: 3035-3057, op. 25 min. Wk. blow air immed, died 25 min. by passed op. 15 min. wk blow air immed. died in 15 min. rec. 95' g-c-m, IFP 0#, FFP 90#, SIP 1110#, in 30 min. HH 1630#.

-19-55 DST #4: 3920-3958, op. 5 min. very weak blow air immed, died 2", by passed, op 5 min. weak blow air died 2 mm rec. 130' ø mud, IFP 0#, FFP 0#, SIP 90#, in 30 min HH 2150#.

-24-55 DST #5: 4599-4655, op. 15 min. wk. blow air immed. died 5 min. by passed, no blow rec. 8' ø mud. IFP 60#, FFP 60#, SIP 120#, in 30 min. HH 2490#.

-25-55 Ran Schlumberger ES & ML to 4707.

-26-55 Core #1: 4760-4774, rec. 12'8" of sl. sdy. sh w/no shows.

-27-55 Core #2: 4778-4798 rec. 20' interbed sd & sh w/vert fract asphaltic oil along fract.

-28-55 Core #3: 4860-4880 rec. 19'4" of sd & sh. Bottom 4" of core very sandy.

-29-55 Core #4: 4880-4900, rec. 20' sdy sh & ss w/vert fract 14 in. conglom ss @ 4885.
DST #6: 4855-4900, op. 1 hr. 20 min. very strong blow air immed. g-t-s 4 min. Gdg. 930 MCF init. stab at 1009 MCF in 30 min. rec. 150' h-g-c-m, IFP 120#, FFP 120#, SIP 1515# in 30 min. HH 2490#.

-30-55 Core #5: 4900-4919, rec. 16'8" sdy sh. & sh.
DST #7: 4900-4919, op 1 hr. 15 min. wk. blow air immed. died 1 hr. 10 min. SI 30 min. Rec. 240' g-c-m, IFP 120#, FFP 235#, SIP 1430#, HH 2490#.

-1-55 Core #6: 4980-5000, rec. 10'5" tight brown sand.
DST #8: 4975-5002, op. 1 hr. 40 min. S BAI, g-t-s 3 min. ggd. 458 MCF init. stab @ 517 MCF in 30 min. rec. 80' g-c-m, IFP 128#, FFP 125#, SIP 1580#, in 30 min. HH 2585.

-2-55 Core #7: 5002-5022, rec. 4'7" of brn hd. tight. shaly qtzitic ss.

-3-55 Core #8: 5022-5042, rec. 17' of hd. tight brn. ss w/int. bedded dk. gry sh.
DST #9: 5001-5042, op. 1 hr. 30 min. S.B.A.I, g-t-s 18 min. ggd. 76 MCF init. 46 to 90 in heads thereafter. SI 30 min. Blew out 23 stands. Rec. undetermined amnt. highly gas and slightly oil cut mud. IFP 795#, FFP 1430#, SIP 1880#, HH 2510#.

-4-55 DST #10: 5003-5042, op. 4 hr. 30 min. SBAI g-t-s 21 min. ggd. 70 MCF in "heads" SI 45 min. No rec. reversed circ. IFP 5.5, FFP 1455, SIP 1795, HH 2510.

-5-55 DST #11: 5042-5089, op. 2 hr. 20 min. Fair BAI decreased to very weak. SI 30 min. Rec. 420' g & sl o-c-m, IFP 140#, FFP 235#, SIP 1835#, HH 2530#.

-7-55 Core #9: 5280-5285, rec. 3 1/2' irreg. interbedded f-gr. ss & sh w/calcite.
Core #10: 5285-5305, rec. 17 1/2' of domin. sh. w/some ss in top 6'. Vert fract. in top 4'.

-8-55 Ran Schlumberger ES to 5422, TS & ML to T.D. 5420'.

-9-55 Ran 163 joints 7", 23#,& 20#, J-55 casing (5201') set at 5211'. Second stage cementing collar at 1503. Cemented first stage with 100 sacks regular cement and 100 sacks Pozmix, 100# Flocele & 4% Gel. Held 1000# 30 min. Top of cement on first atage by temperature survey at 3701'. P.B. total depth 5169'.

-10-55 Cemented second stage with 100 sacks regular cement, 100 sacks Pozmix, 100# Flocele & 4% Gel. Held 1000#30 min. Top of cement on second stage by temp. survey at 190'.

-12-55 Blowing hole dry.

-13-55 Perf. 5022-5028 w/2 shots/ft. gaged 808 MCF/D 30 min. after perf.
Perf. 5016-5022 w/2 shots/ft. gaged 1580 MCF/D 30 min. after perf. Started making 2" stream of mud. Blew well for 3 hrs. 2" stream decreased to ½" - 1" of muddy water. Gaged 2780 MCF/D.

-14-55 Gaged 3640 MCF/D. Set Howco bridge plug at 5012'.
Perf. 5003-5009 w/2 shots/ft. gaged 3940 MCF/D after ' hrs. blow.
Perf. 4997-5003 w/2 shots/ft. gaged 3780 MCF/D in 30 .
Perf. 4991-4997 w/2 shots/ft. gaged 3880 MCF/D in 30 min.
Perf. 4987-4991 w/2 shots/ft. gaged 3880 MCF/D in 30 min.

6-15-55 Let pressure build up to max. 1100# in 2 hr. gaged 3970 MCF/D at 6:45 AM. Gaged 4020 MCF @ 12 noon. Set Howco bridge plug at 4937'. Perf. 4886-4888 w/2 shots/ft. gaged 405 MCF/D after 1 hr. 30 min. Perf. 4888-4894 w/2 shots/ft. 1 hr. pr. up to 200#, blew down w/no increase in gas. Ran Schlumberger (GR) 700' - 1500' & 4600-4935'.

6-16-55 Perf. 4894-4900 w/2 shots/ft. gaged 536 MCF/D. Perf. 4900-4902 & 4882-86. Gas logged off. Blowing well.

6-17-55 Blowing dry. Pr. up for 2 hr. & blew down. Made 2" stream muddy water & decreased to drippling off of flow line. Blew thru 2" swedge to 1" for 1 hr. small blow. Wait on Schlumberger. Pressure up 1 hr. & blew 1 hr. small blow made 2 hr. water test. No water or mud & no increase in gas.

6-18-55 Perf. 4886-4894 w/4 bullets/ft. Gaged 49 MCF/D in 1 hr. found mud & water at approx. 2500'. Blowing well. Set DOC squeeze retainer @ 4735'. Squeezed perf. 4882' - 4902' w/100 sks DOC (95 sks. into formation) Breakdown pr. 700#, max. pressure 1500#, final pressure 1400#.

6-20-55 Blowing csg. dry. Gaged 407 MCF/D. Perf. 4850' to 4862' w/2 jet shots & 4 bullets/ft. gaged 486 MCF/D before perf. and 500 MCF/D after perf. Drilled up bridge plug at 4937'.

6-21-55 Drilled bridge plug at 5012' & cleanout to 5169'. Gaged 4,600 MCF & ran 163 jts. 2" tubing (5041') landed at 5051'.

7-6-55 Date well was tested.

J.K. EDWARDS ASSOCIATES, INC.

OIL & GAS PROPERTIES

1401 17TH STREET / SUITE 1400

DENVER, COLORADO 80202

303/298-1400 FAX 303/298-0757

Post-it® Fax Note 7671	Date 7-27-95	# of pages ▶ 2
To MARY LOU	From RICK LEWIS	
Co./Dept.	Co. JKEA	
Phone # 505-326-0234	Phone # 303 298-1400	
Fax #	Fax #	

July 27, 1995

Farmington Daily Times
Legal Department
P.O. Box 450
Farmington, NM 87499

Re: Notice of Water Disposal Well

Gentlemen and Ladies:

Attached please find the referenced notice which J. K. Edwards Associates, Inc. would like run in the legal notice section of the Farmington Daily Times. Please run this notice for one day only and include in the next possible issue.

If you should have any questions, please do not hesitate to call me or Ms. Ann Fedlman at the above number.

Very truly yours,

Richard L. Lewis
Contract Landman

Needs to be filed in the legal section of the Farmington Daily Times and copy returned to J. K. Edwards Associates, Inc.

NOTICE

J. K. Edwards Associates, Inc., 1401 17th Street, Suite 1400, Denver, CO 80202, (303)298-1400 whose agent is Keith Edwards, hereby notifies all interested parties that the following well is to be converted to a water disposal well. Injection will be into the Point Lookout (Mesaverde) interval at approximately 3708' - 3922'. Maximum well rate will be 1000 Bwpd at less than 1100 psi. Any request for information or any objections should be filed with the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, NM 87501 within 15 days of this notice.

Gallegos Gallup Field, Frontier 1-A, NE/4SE/4 Section 8, T26N-R12W, San Juan County, New Mexico.

J.K. EDWARDS ASSOCIATES, INC.

OIL & GAS PROPERTIES

1401 17TH STREET / SUITE 1400

DENVER, COLORADO 80202

303/298-1400 FAX 303/298-0757

CERTIFIED MAIL - RETURN RECEIPT

August 2, 1995

Jerome P. McHugh & Associates
Nassau Resources, Inc.
Kindermac Partners
Attn: Land Department
650 South Cherry St., Suite 1225
Denver, CO 80222

Re: Application to Inject
Frontier A#1 Well
SE/4 Section 8-T26N-R12W
San Juan County, New Mexico

Gentlemen and Ladies:

Pursuant to the regulations of the NMOCD, you are advised of JKEAI's intention to plug back the referenced well to the Mesaverde formantion and use it as a salt water disposal well. I am enclosing a copy of the application for your reference.

Any request for information or any objections should be filed with the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, NM 87501 within 15 days of publication in the Farmington Daily Times.

Very truly yours,

Richard L. Lewis
Contract Landman

RLL:ll
encls.

J.K. EDWARDS ASSOCIATES, INC.

OIL & GAS PROPERTIES

1401 17TH STREET / SUITE 1400

DENVER, COLORADO 80202

303/298-1400 FAX 303/298-0757

CERTIFIED MAIL - RETURN RECEIPT

August 2, 1995

MERRION OIL AND GAS CORPORATION
Attn: Land Department
610 Reilly Avenue
P.O. Box 840
Farmington, NM 87499

Re: Application to Inject
Frontier A#1 Well
SE/4 Section 8-T26N-R12W
San Juan County, New Mexico

Gentlemen and Ladies:

Pursuant to the regulations of the NMOCD, you are advised of JKEAI's intention to plug back the referenced well to the Mesaverde formantion and use it as a salt water disposal well. I am enclosing a copy of the application for your reference.

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Very truly yours,

Richard L. Lewis
Contract Landman

RLL:ll
encls.

J.K. EDWARDS ASSOCIATES, INC.

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1401 17TH STREET / SUITE 1400

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CERTIFIED MAIL - RETURN RECEIPT

August 2, 1995

BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA
1235 La Plata Highway
Farmington, NM 87401

Re: Application to Inject
Frontier A#1 Well
SE/4 Section 8-T26N-R12W
San Juan County, New Mexico

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Very truly yours,

Richard L. Lewis
Contract Landman

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J.K. EDWARDS ASSOCIATES, INC.
OIL & GAS PROPERTIES
1401 17TH STREET / SUITE 1400
DENVER, COLORADO 80202
303/298-1400 FAX 303/298-0757

CERTIFIED MAIL - RETURN RECEIPT

August 2, 1995

DUGAN PRODUCTION COMPANY
Attn: Land Department
P.O. Box 420
Farmington, NM 87499

Re: Application to Inject
Frontier A#1 Well
SE/4 Section 8-T26N-R12W
San Juan County, New Mexico

Gentlemen and Ladies:

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Any request for information or any objections should be filed with the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, NM 87501 within 15 days of publication in the Farmington Daily Times.

Very truly yours,

Richard L. Lewis
Contract Landman

RLL:ll
encls.

WALSH
ENGINEERING & PRODUCTION

WORKOVER AND COMPLETION REPORT

Operator: J. K. Edwards & Assoc. Well Name: Frontier A #1
Date: 2/16/92 Report No: 1
Field: Lower Gallup County: San Juan State: N.M. SE 8 T26N R12W
Contractor: Blanco Bros. Supervisor: Paul Thompson

Work Summary:

MOL & R.U. Blanco Bros Rig. Disconnect production equipment and move out of the way. TOH w/ 12' polished rod, 2', 2' and 4' pony rod (5/8"); and 197 5/8" rods. Coupling on last rod was corroded N.D. wellhead and N.U. BOP. TOH w/ 91 stands of 2 3/8 Tubing. Was free of oil at this point. P.U. new box on 5/8" rod and TIH. Screwed into parted rod. TOH w/ rods and pump. Recovered 1 more rod (198 total) and 12' 2x1.5 pump. TOH w/ 11 more stands of 2 3/8 (164 jts total), seating nipple, 4' perforated sub and plugged mud anchor. Bottom of tubing was set at 5167' (perfs 4997-5025). P.U. M.U. Stone 5 1/2" retrievable bridge plug and packer and TIH on 2 3/8" tubing. Run 20 stands and shut down for night.

Daily Costs:

Road & Location		Tubulars	
Rig Cost	1400	Wellhead Equipment	
Equipment Rental		Subsurface Equipment	
Logging & Perforating		Artificial Lift Equipment	
Stimulation		Sucker Rods	
Testing		Tanks	
Cementing		Pressure Vessels	
Completion Fluids		Flowlines	
Contract Services		Installation/Labor	
Miscellaneous Supplies		Fittings, Valves, Etc...	
Engr. & Supervision	190	Meters, Last, Etc...	
Trucking Dwt	300	Electrical Equipment	
Other		Total Daily Cost	1890
		Cumulative Cost	1890

Well Record

Pulled from well			Equipment		Run in well		
1" 7/8" 3/4" 5/8"			Sucker Rod Count		1" 7/8" 3/4" 5/8"		
Rod subs					Rod subs		
API Pump Size			Pump		API Pump Size		
Depth			Tubing Bottom		Depth		
Length		Plugged or Open	Gas or Mud Anchor		Length	Plugged or Open	
Length		Size & No Holes	Perforated Nipple		Length	Size & No Holes	
Size	Type	Depth	Seating Nipple		Size	Type	Depth
Length		Joints	Tubing Count		Length	Joints	
Tubing Subs					Tubing Size Tubing subs	Wt Grade Thread	
Type		Depth	Anchor Catcher		Type	Depth	
Type			Packer		How Set Type	Depth	

CLI-12A

CHEMICAL & GEOLOGICAL LABORATORIES

Casper Farmington Glendive Sterling

WATER ANALYSIS REPORT

Field Bisti, New Mexico Well No. CBU No. 28

Operator Sunray Mid-Continent Oil Company Location NW SW 9-25N-12W

Sampled by Date

Formation Gallup Depths 4750 - 4800 How sampled From treater

Other pertinent data Sample No. 1

Analyzed by DM & DS Date October 2, 1959 Lab. No. 14747-1

CONSTITUENTS	PPM	MEQ.	MEQ.%
Sodium	16,789	729.95	47.13
Calcium	608	30.34	1.96
Magnesium	162	13.32	0.86
Sulfate	10	0.21	0.01
Chloride	27,000	761.40	49.21
Carbonate	-	-	-
Bicarbonate	732	12.00	0.78
Hydroxide	-	-	-

TOTAL SOLIDS IN PARTS PER MILLION:

By evaporation	46,030
After ignition	44,560
Calculated	44,929

PROPERTIES OF REACTION IN PERCENT:

Primary salinity	94.36
Secondary salinity	4.08
Primary alkalinity	0.00
Secondary alkalinity	1.56
Chloride salinity	99.98
Sulfate salinity	0.02

Observed pH. 7.6 Resistivity @ 68°F. ohms/meter 0.190

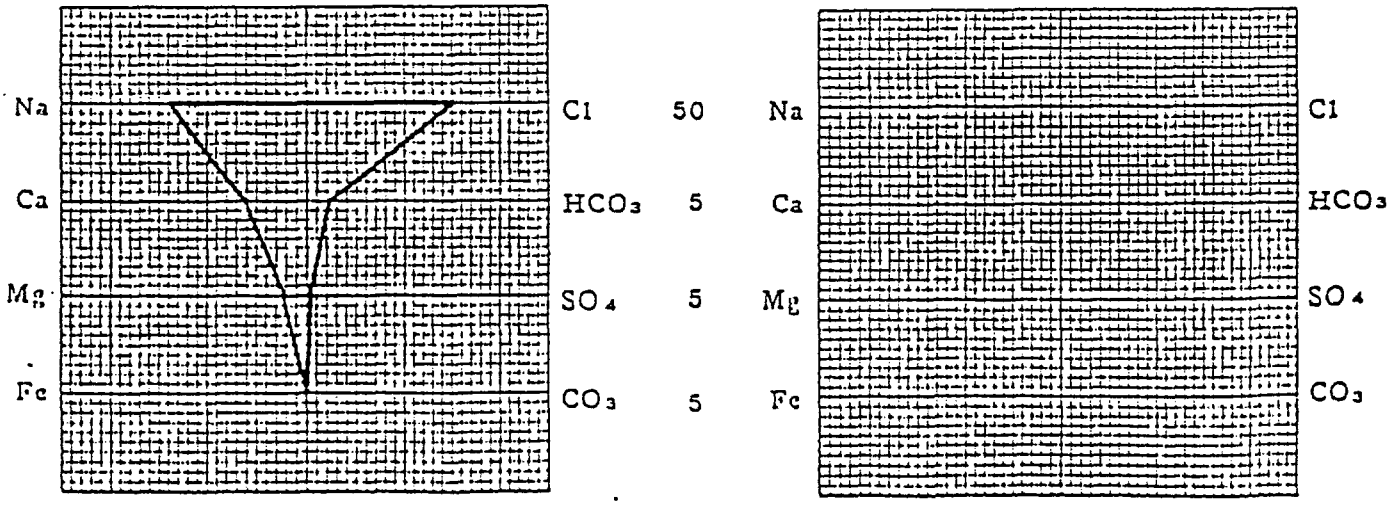
Remarks Sampled as known Gallup water.

Note: PPM=Milligrams per liter (1 PPM is equivalent to 0.0001% by weight). MEQ=Milliequivalents per liter. MEQ%=Milliequlivalents per liter in percent.

WATER ANALYSIS PATTERN

Sample above described

Scale MEQ per Unit



CLI-12A

CHEMICAL & GEOLOGICAL LABORATORIES

Casper Farmington Glendive Sterling

WATER ANALYSIS REPORT

Field Bisti, New Mexico Well No. CBU No. 29

Operator Sunray Mid-Continent Oil Company Location NE SE 8-25N-12W

Sampled by Date

Formation Gallup Depths 4750 - 4800 How sampled From Treater

Other pertinent data Sample No. 2

Analyzed by DM & DS Date October 2, 1959 Lab. No. 14747-2

CONSTITUENTS	PPM	MEQ.	MEQ.%
Sodium	18,064	785.37	47.15
Calcium	646	32.24	1.94
Magnesium	185	15.21	0.91
Sulfate	10	0.21	0.01
Chloride	29,000	817.80	49.10
Carbonate	-	-	-
Bicarbonate	903	14.81	0.89
Hydroxide	-	-	-

TOTAL SOLIDS IN PARTS PER MILLION:

By evaporation	49,490
After ignition	48,400
Calculated	48,350

PROPERTIES OF REACTION IN PERCENT:

Primary salinity	94.30
Secondary salinity	3.92
Primary alkalinity	0.00
Secondary alkalinity	1.78
Chloride salinity	99.98
Sulfate salinity	0.02

Observed pH 7.2 Resistivity @ 68°F. ohms/meter[1] 0.165

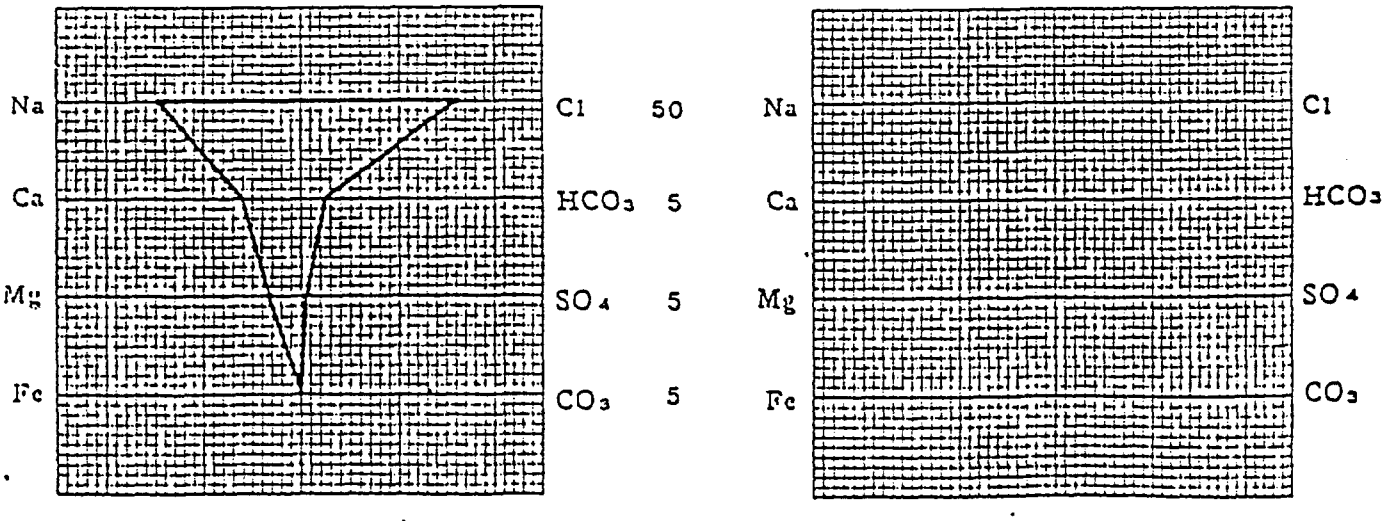
Remarks Correlates with Gallup water from this area and with water from CBU No. 28 sampled as known Gallup water.

Note: PPM=Milligrams per liter (1 PPM is equivalent to 0.0001% by weight). MEQ=Milliequivalents per liter. MEQ%=Milliequlivalents per liter in percent.

WATER ANALYSIS PATTERN

Sample above described

Scale MEQ per Unit



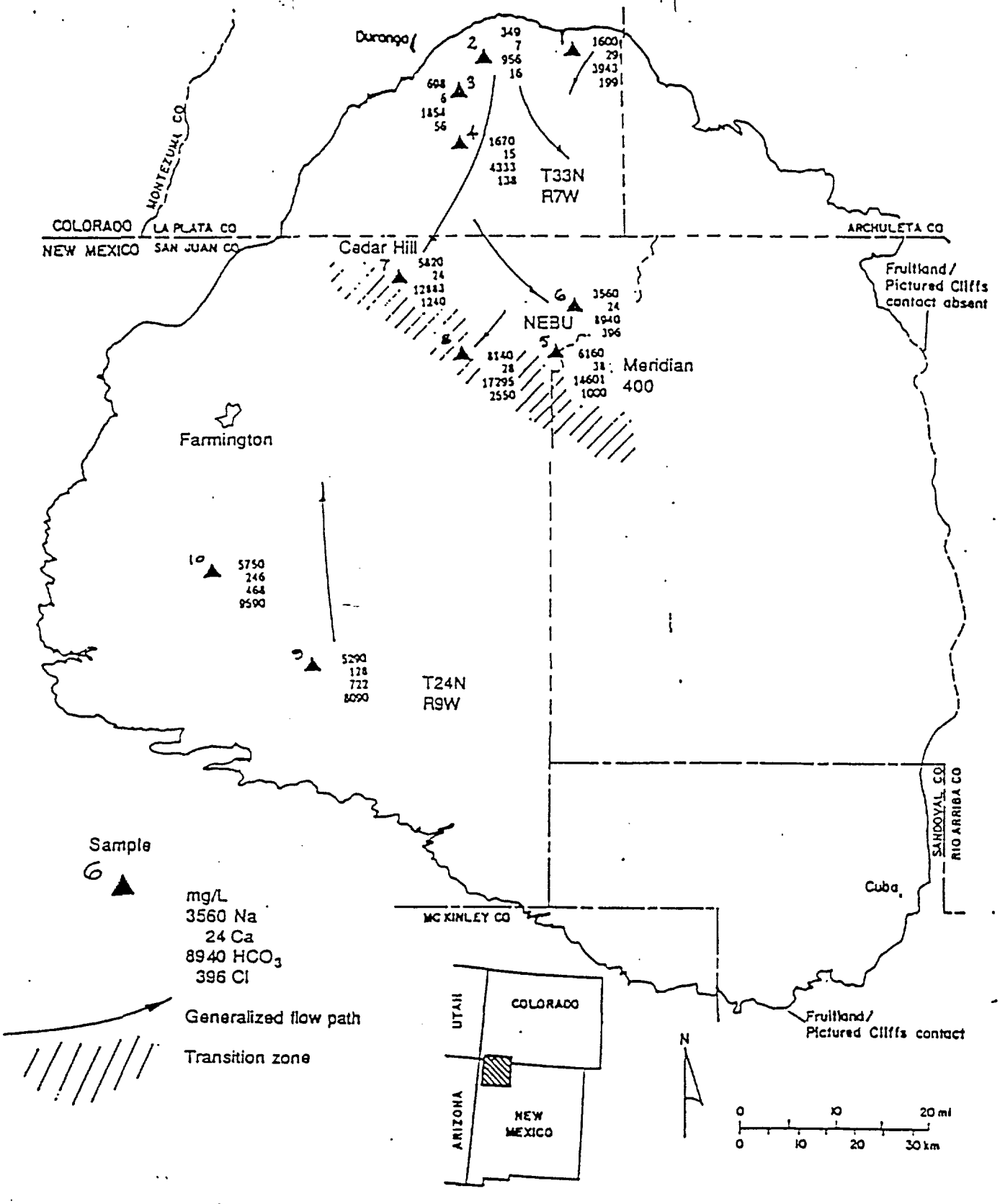


Figure 16. Location of GRI/BEG Fruitland coalbed water samples. In the north-central part of the basin, Na^+ and HCO_3^- increase down flow path, reaching their highest concentration in the transition zone. Southern waters are enriched in Cl- and Ca^{2+}. The transition zone is a regional facies, potentiometric, pressure, and hydrochemical boundary. Complete chemical analyses in table 3.

Table 3. Chemical analyses of produced Fruitland coalbed waters.

Sample Number	1	2	3	4	5	6	7	8	9	10
Well	Perry Land GU B 1	Shoemaker 1-34	Southern Ute 12U-1	Mayfield-Melton GU 1	NEBU 432	NEBU 218	Ealum Gas Com C 1R	Elliott Gas Com Y 1	Bisti Coal 36-1	Rick Wells 1
Location	30 35N 6W	34 35N 8W	12 34N 9W	1 33N 9W	7 30N 7W	16 31N 7W	33 32N 10W	9 30N 9W	36 25N 12W	8 26N 13W
Production Interval	1,304-1,480	1,896-2,026	2,400-2,478	2,530-2,747	3,004-3,216 (OH)	3,200-3,346 (OH)	2,777-2,813	2,790-2,944	1,074-1,092	1,383-1,427
Source	wellhead	wellhead	wellhead	separator[a]	separator[a]	wellhead	wellhead	wellhead	wellhead	wellhead
TDS	5,820	1,360	2,650	6,220	21,970	13,030	20,110	28,210	14,330	16,190
Na	1,600	349	698	1,670	6,160	3,560	5,820	8,140	5,290	5,750
K	9.9	4.3	5.8	5.4	19.5	13.2	33.3	53.1	22.5	27.5
Ca	28.8	6.5	5.8	15.1	37.7	24.4	23.6	28.1	128	246
Mg	6.2	1.2	1.2	4.2	27.4	17.3	15.5	15.1	36.4	57.7
Sr	4.3	0.6	0.7	5.0	17.7	13.2	12.3	19.4	6.9	12.3
Ba	6.5	0.7	1.1	6.1	62.9	21.1	36.2	51.5	8.4	7.6
Fe	0.12	0.80	0.04	0.05	0.64	0.72	1.24	0.59	0.57	2.37
Mn	0.06	0.03	0.03	0.01[b]	0.01	0.01	0.03	0.01	0.49	0.15
Li	0.88	0.34	0.94	1.54	1.39	1.11	0.58	1.13	0.50	0.53
B	1.08	0.21	0.63	1.55	2.15	0.98	8.54	9.17	1.18	1.09
SiO_2	21.0	22.8	26.1	31.5	26.6	27.1	24.7	26.1	12.5	15.0
Field alkalinity (as HCO_3^-)	3,943	956	1,854	4,333	14,601	8,940	12,883	17,295	722	468
Organic acids (as CH_3COOH)	270	220	210	330	330	210	210	220	120	160
NH_3	2.53	1.50	1.11	4.47	11.3	8.57	9.13	16.2	4.99	6.20
organic-N	0.39	0.78	0.85	1.04	1.45	1.59	0.85	1.50	0.60	0.48
Cl	199	16	56	138	1,000	396	1,240	2,550	8,090	9,590
SO_4	<5[c]	<5	<5	<5	<5	<5	<5	<5	<5	10.4
Br	0.85	0.14	0.50	0.76	4.65	3.49	3.99	6.19	7.64	8.68
I	0.38	0.10	0.33	1.13	0.41	0.11	0.52	0.87	0.60	0.56
Field pH	7.65	8.21	8.23	7.73	7.62	7.89	8.06	8.02	7.39	7.33
$\delta^{18}O$[d]	−14.0	−14.6	−14.6	−14.1	−7.4	−7.9	−7.7	−7.6	−10.8	−10.5
δD	−85	−98	−102	−85	−32	−43	−28	−36	−81	−80
$\delta^{13}C$[e]	+23.5	+17.5	+16.7	+24.0	+25.6	+24.7	+26.0	+24.9	+19.7	+19.5
Σ cations (meq/L)	71.94	15.73	30.92	74.03	273.71	158.30	257.14	359.07	240.27	268.10
Σ anions (meq/L)	70.28	16.13	31.98	74.95	267.66	157.78	246.25	355.55	239.98	278.33

[a] flowing well; [b] near detection limit of 0.01 mg/L; [c] detection limit 5 mg/L; [d] $\delta^{18}O$ and δD in per mil relative to SMOW; [e] $\delta^{13}C$ of total dissolved carbonate species in per mil relative to PDB.

ANALYSIS NO. 53-35-91

FIELD RECEIPT NO. _____

I FORM 45-1

API WATER ANALYSIS REPORT FORM

Company		Sample No.	Date Sampled
Giant E&P			08-07-91
Field	**Legal Description**	**County or Parish**	**State**
Lease or Unit	**Well**	**Depth**	**Formation**	**Water, B/D**
Bisti Coal 3	#1		Fruitland	
Type of Water (Produced, Supply, etc.)	**Sampling Point**	**Sampled By**
Produced		

SSOLVED SOLIDS

TIONS

	mg/l	me/l
lium, Na (calc.)	5473	237.95
cium, Ca	140	7.00
gnesium, Mg	61	5.00
rium, Ba	—	—
tassium, K	98	2.51

IONS

oride, Cl	8010	225.96
fate, SO_4	0	0
bonate, CO_3	0	0
rbonate, HCO_3	1617	26.50
droxide, OH	0	0
		1

al Dissolved Solids (calc.) 15399

. Fe (total) 25 ppm

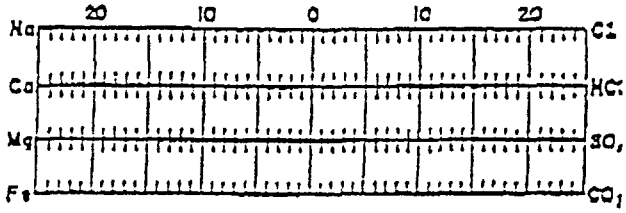
ide, as H_2S neg

OTHER PROPERTIES

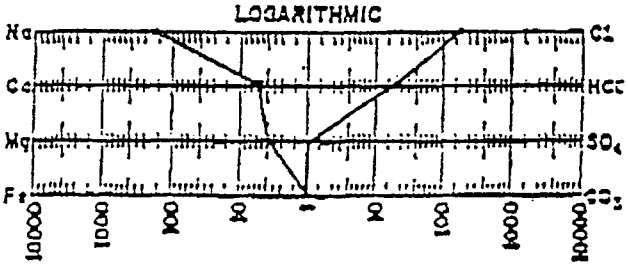
pH	7.25
Specific Gravity, 60/60 F.	1.010
Resistivity (ohm-meters) 74 F.	.44
Total Hardness	600

WATER PATTERNS — me/l

STANDARD



LOGARITHMIC



MARKS & RECOMMENDATIONS:

ANALYST: Lee

ASE REFER ANY QUESTIONS TO:

WESTERN CO. OF NORTH AMERICA
MINGTON, N.M.
AN AULT-District Engineer
05) 327-6222

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OFFICE OCC
... 10:08

Land Office: SF
Lease No.: 0-0004
Unit: Frontier

RECEIVED
...31 1957
... NEW MEXICO

SUNDRY NOTICES AND REPORTS ON WELLS

[illegible]		[illegible]	
[illegible]		[illegible]	
[illegible]		[illegible]	
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[illegible]		[illegible]	
[illegible]		Supplementary Well History	X
[illegible]			

October 31, 1957

Well No. 1-A is located 1290 ft. from [N/S] line and 193 ft. from [E/W] line of sec. 3

NE SW/4 Sec. 3 — 26 N — 12 W — N.M.P.M.

Wildcat — San Juan — New Mexico

The elevation of the derrick floor above sea level is 5959 ft.

DETAILS OF WORK

Intention to change name of El Paso Natural Gas Products Company Frontier No. 2 to El Paso Natural Gas Products Company Frontier No. 1-A.

RECEIVED
NOV 4 1957
OIL CON. C.
DIST. 3

Company: El Paso Natural Gas Products Company

Address: P. O. Box 1565
Farmington, New Mexico

ORIGINAL SIGNED BY: WILLIAM A. CLAZENER

By: ____________________

Title: Petroleum Engineer

SAN JUAN COUNTY NEW MEXICO UNNAMED FLD 8-26N-12W

Well: EL PASO NAT. GAS PROD. CO. #2 Frontier — Result: GAS

Loc'n: SW NE SE, Sec 8-26N-12W; 1750' FSL 790' FEL

Spud: 8-8-57; Comp: 9-3-57; Elev: 5906' grd; KB: 5106'

Casing: 10 3/4" 173'/150 sx, 7 5/8" 3940'/250 sx, 5 1/2" 5106'/300 sx.

Prod Zone: Gallup; Prod thru perfs

IPF: 1,031,000 CFGPD, 1/4" ck, SICP 1290#. Heavy spray of dist.

Comp Info: Perf 4897-4933', 4995-5025' & frac, grd 1,500,000 CFGPD & 50 BOPD

Zones: (EL) Kirtland 505', Fruitland 820', Pict Cliffs 1127', Mvde 2025, Pt Lookout 3704', Mancos 3924', Gallup 4761', Nelson 4996'.

Date: 9-27-57 Card No. 15 pe

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON TEXAS

ELECTRICAL LOG

GAMMA RAY & INDUCTION LOG

LOCATION: GALLUP

WELL: FRONTIER #2

COMPANY: EL PASO NATURAL GAS COMPANY

COMPANY: EL PASO NATURAL GAS COMPANY

WELL: FRONTIER #2

FIELD: GALLUP

LOCATION: SEC. 8-26N-12W

COUNTY: SAN JUAN

STATE: NEW MEXICO

Location of Well: 790' FR E/L, 1750' FR S/L, SEC. 8-26N-12W

(TEMP)

FILING No.

FOLD HERE

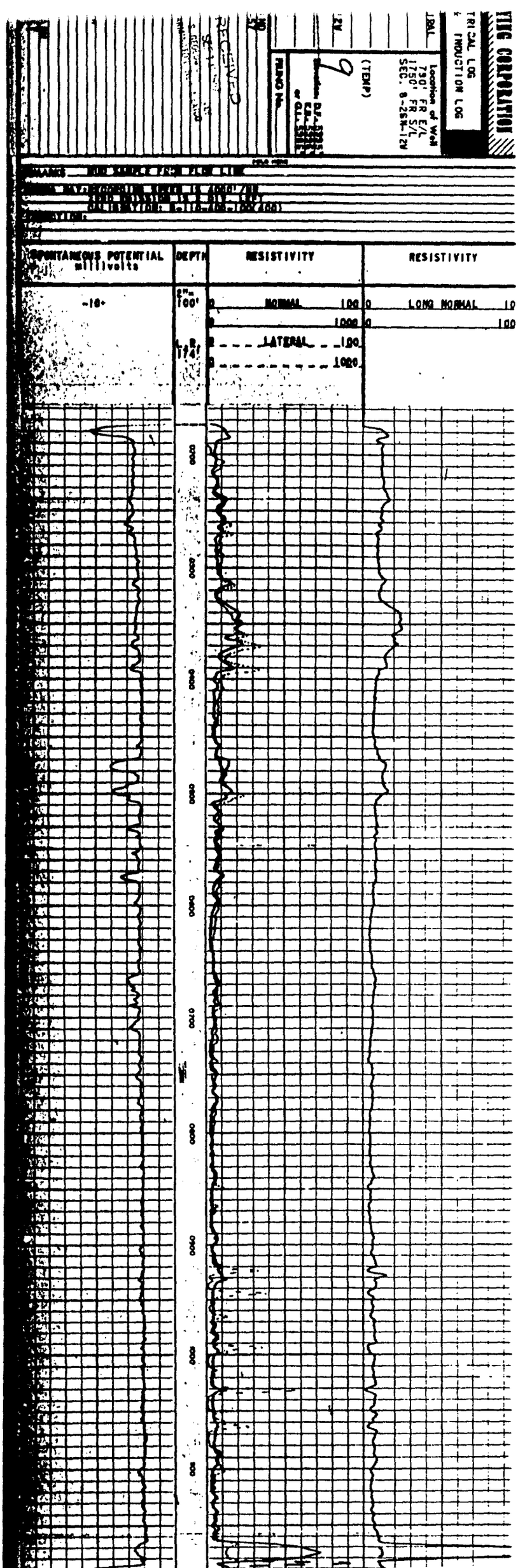
REMARKS: MUD SAMPLE FROM FLOW LINE

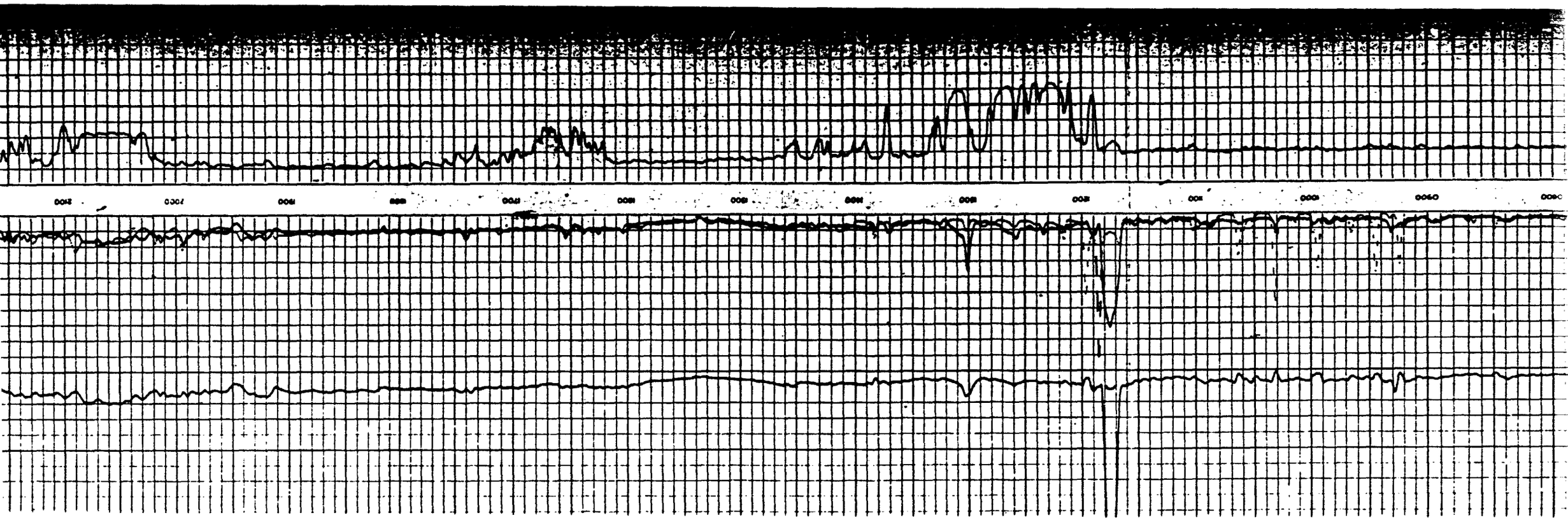
GAMMA RAY: RECORDING SPEED IS 4000'/HR

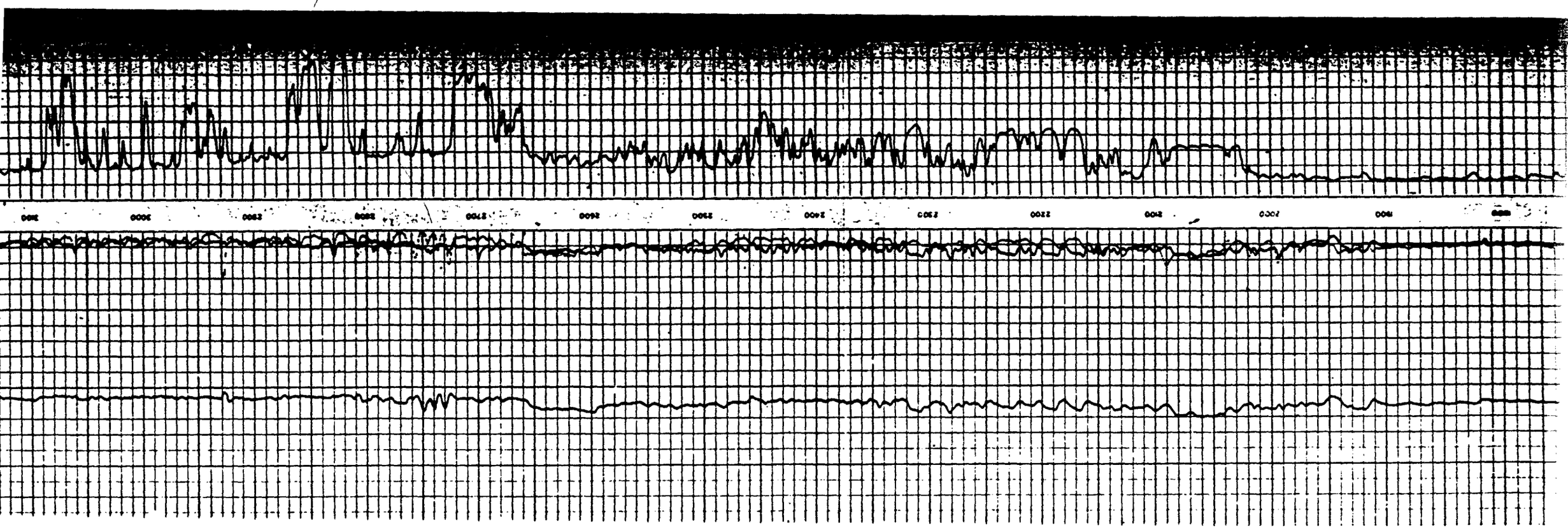
TIME CONSTANT IS 2 SEC.

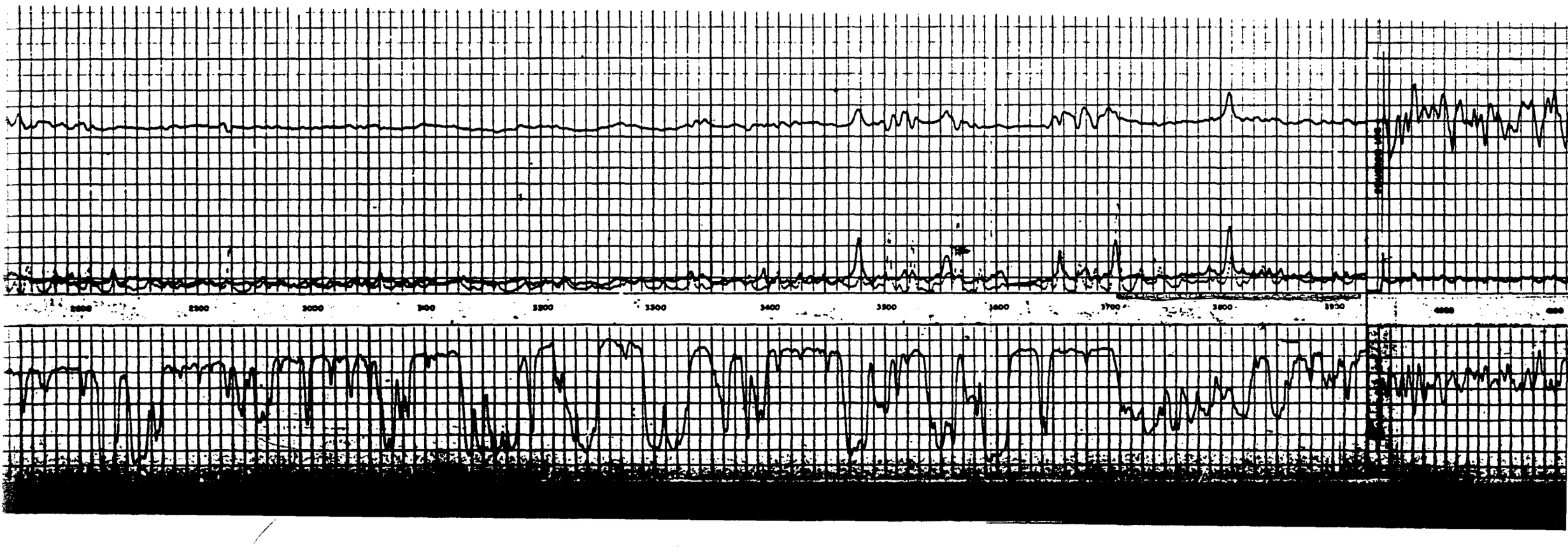
CALIBRATION: 8-110-400-100(400)

SPONTANEOUS POTENTIAL millivolts	DEPTH	RESISTIVITY	RESISTIVITY
-10+	2" = 100'	0 NORMAL 100	0 LONG NORMAL 10
		0 1000	0 100
	L.R. 174'	0 LATERAL 100	
		0 1000	


TRICAL LOG
INDUCTION LOG
Location of Well
730' FR E/L
1750' FR S/L
SEC. 8-25N-12W
(TEMP)
SPONTANEOUS POTENTIAL millivolts
DEPTH
RESISTIVITY
NORMAL
LATERAL
RESISTIVITY
LONG NORMAL



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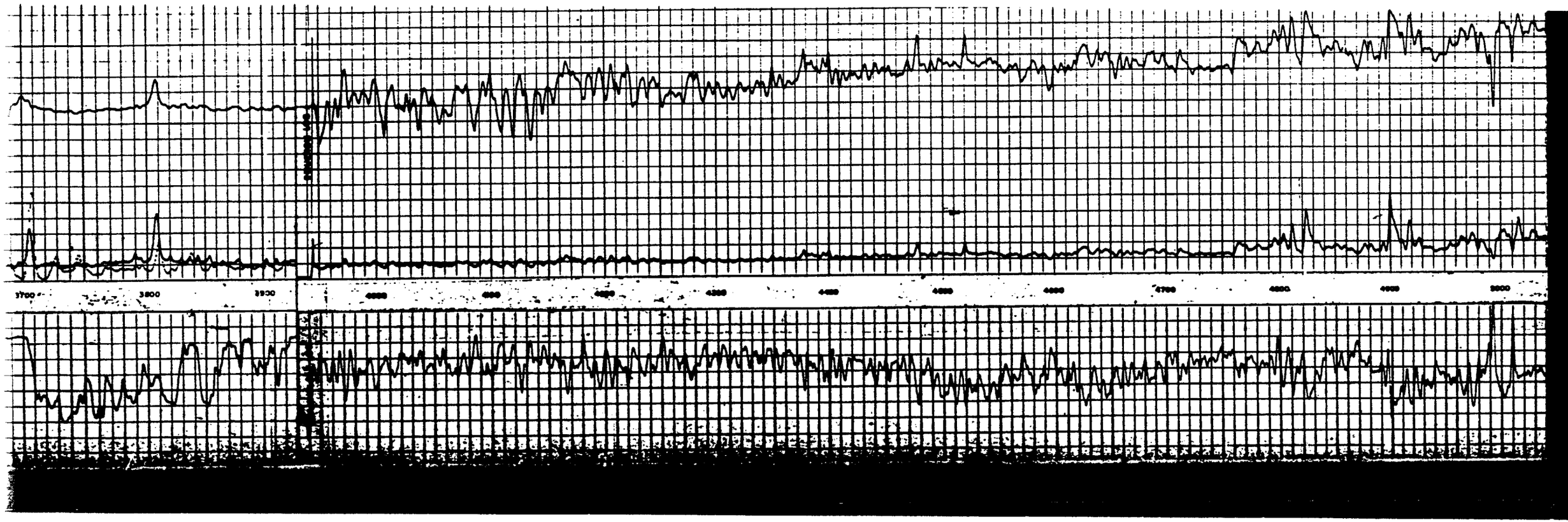

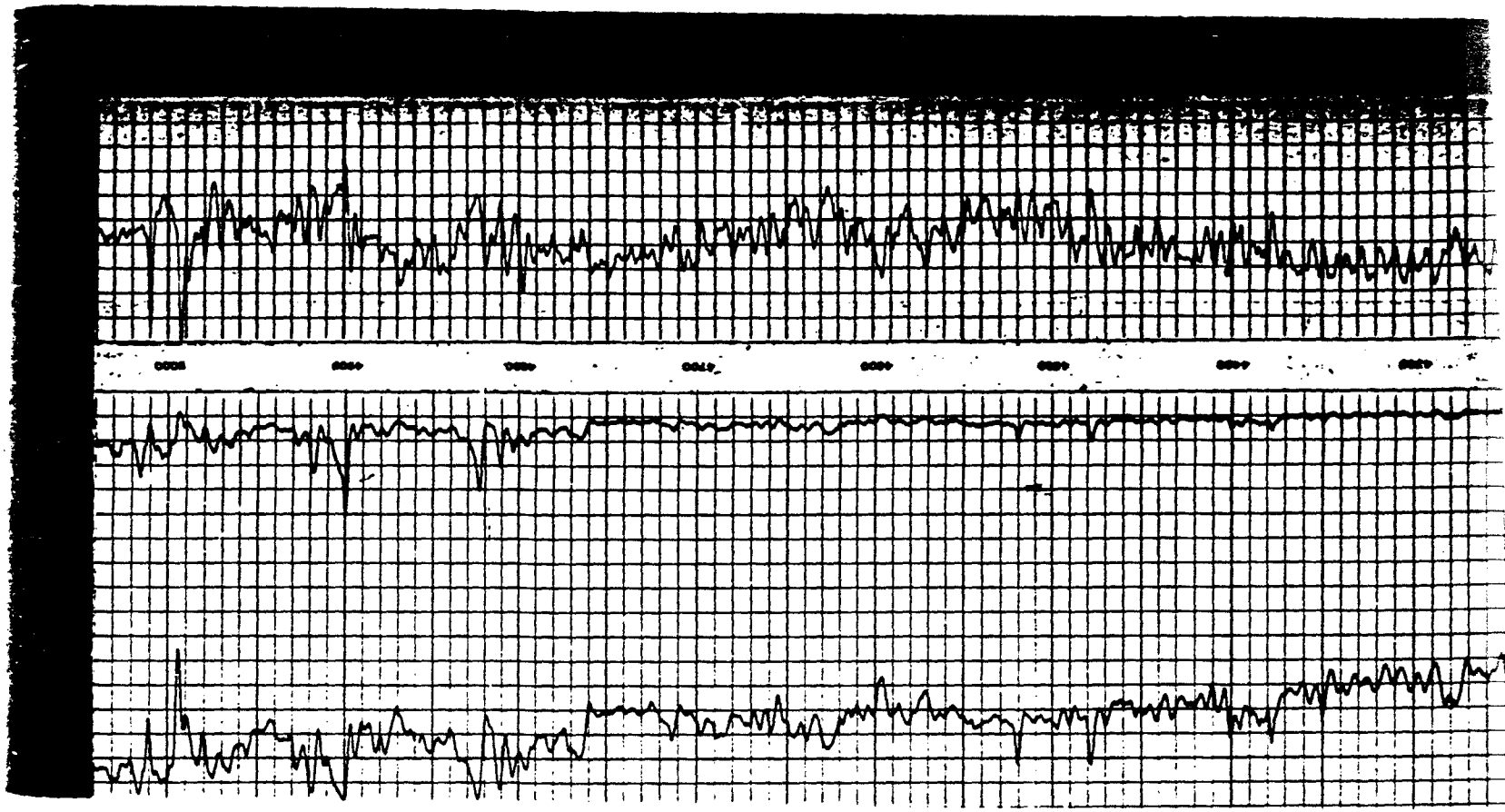


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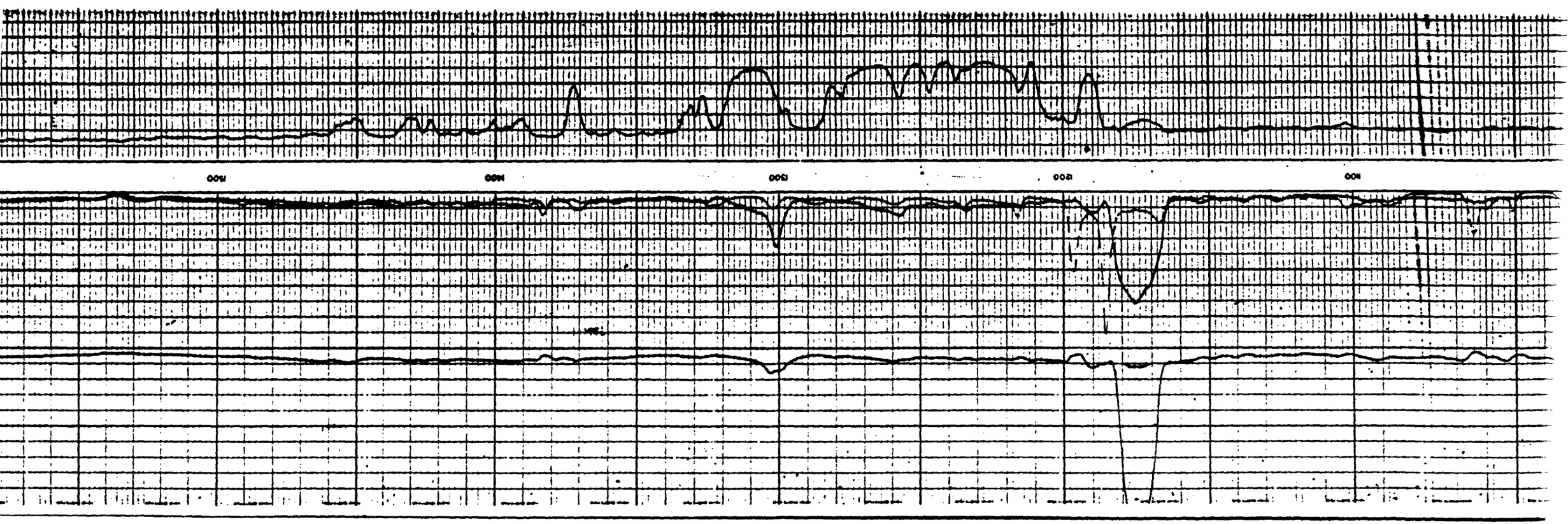

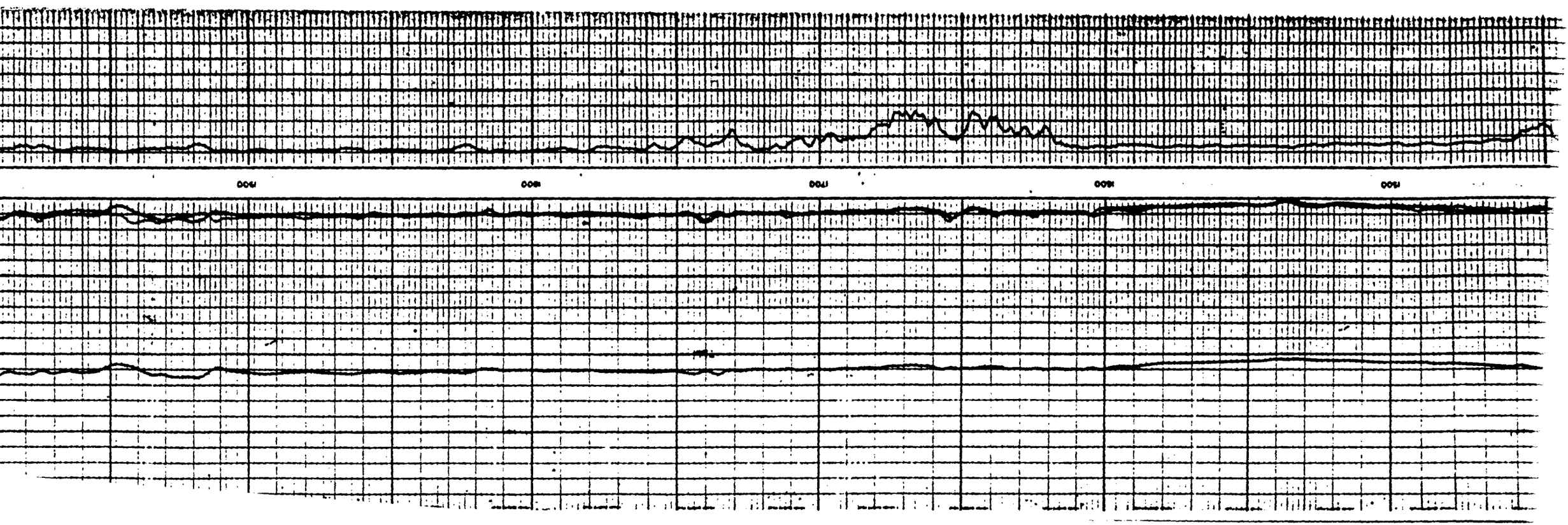

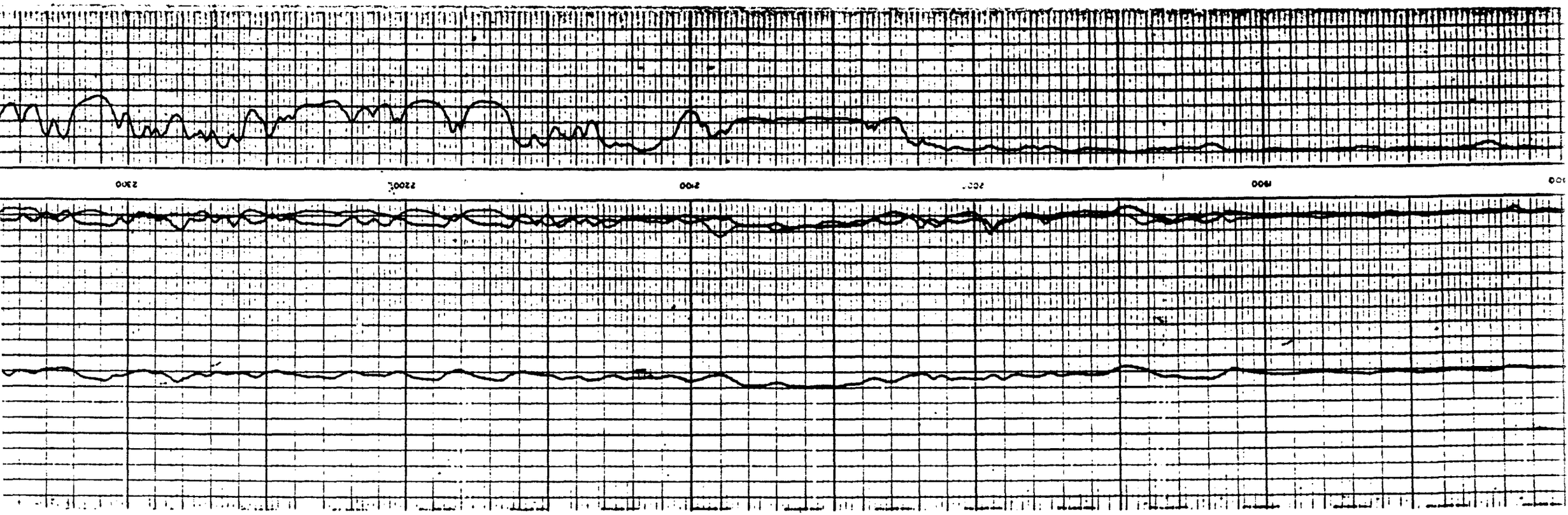

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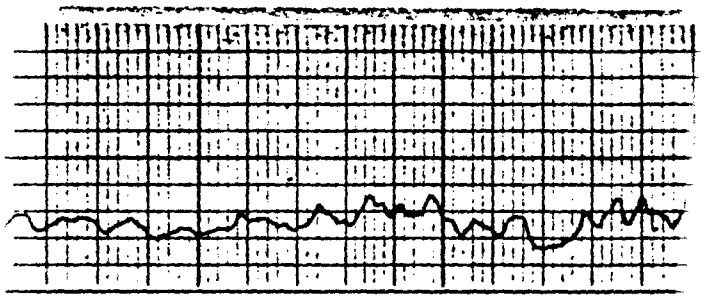

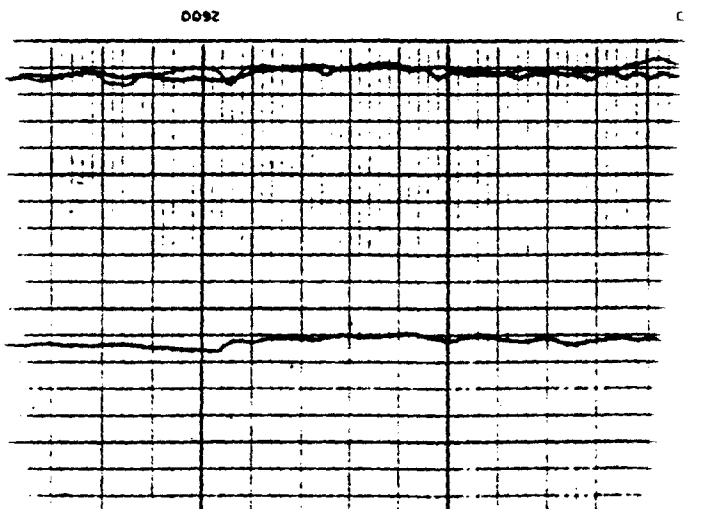
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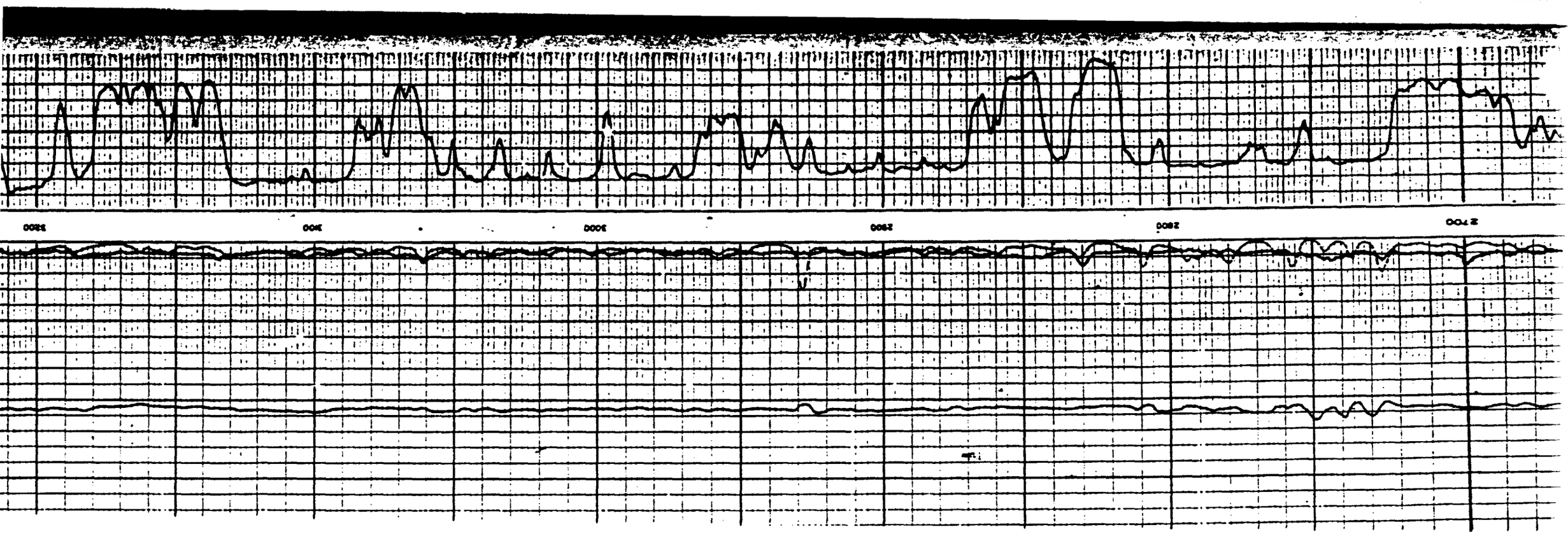

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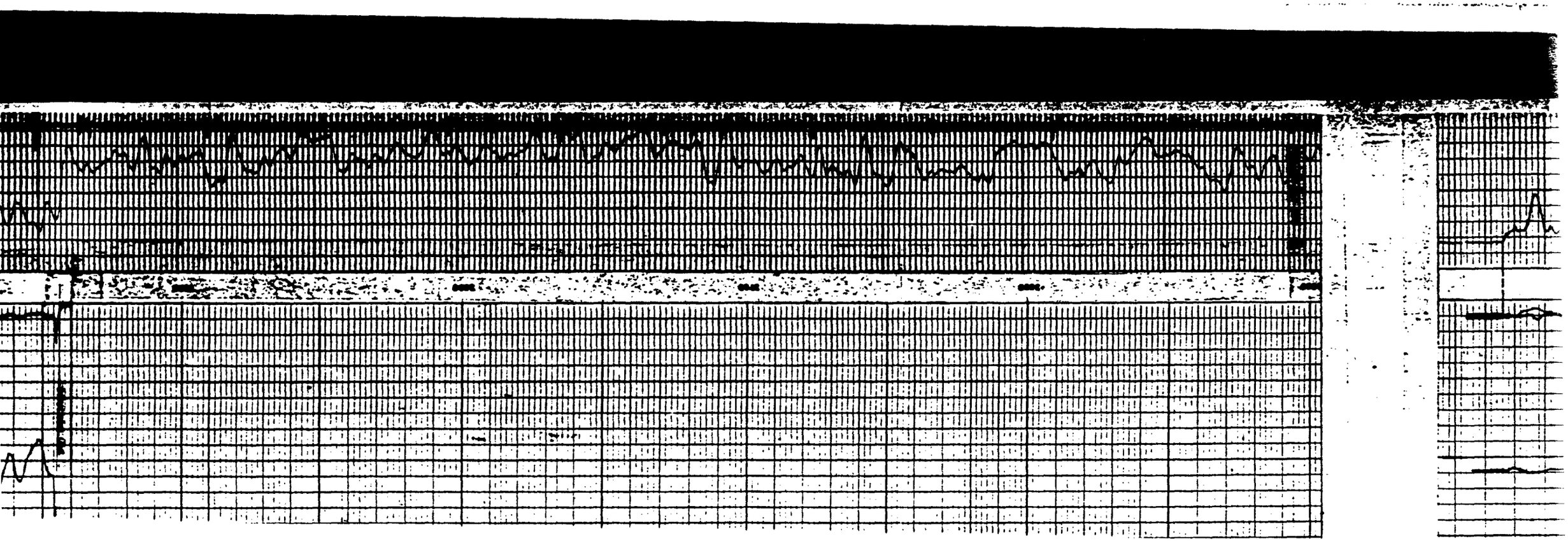

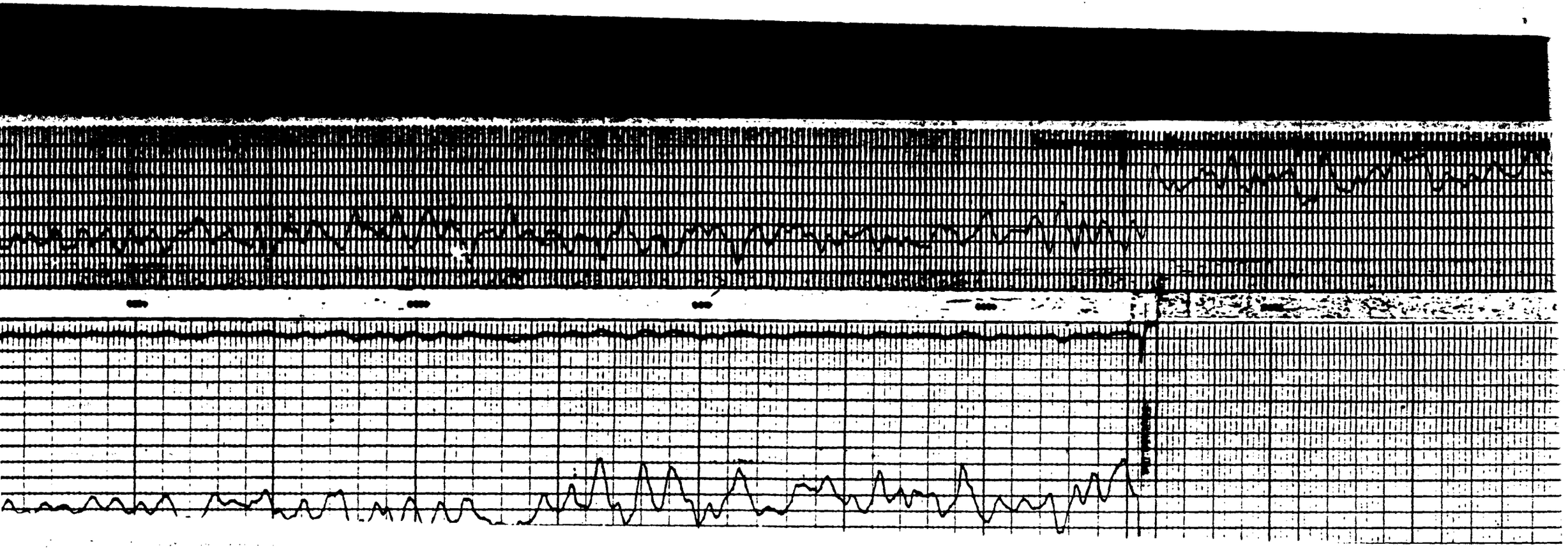

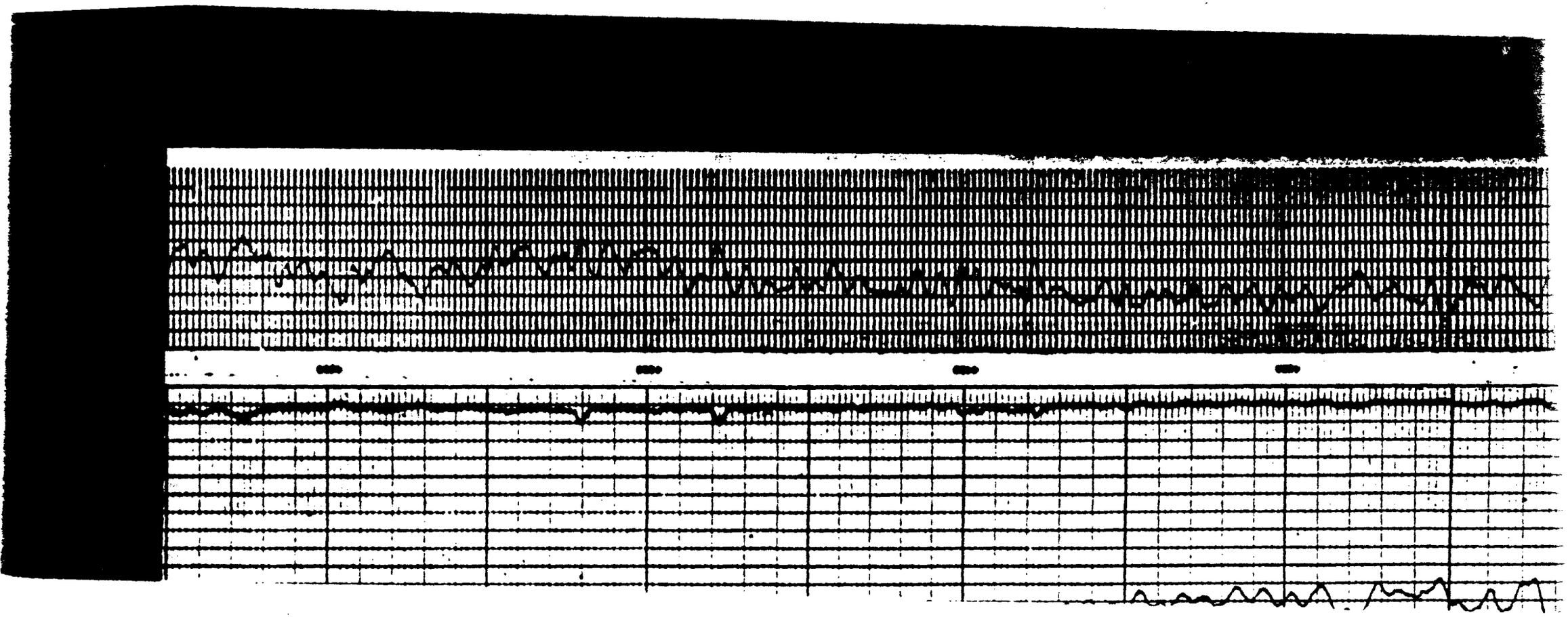

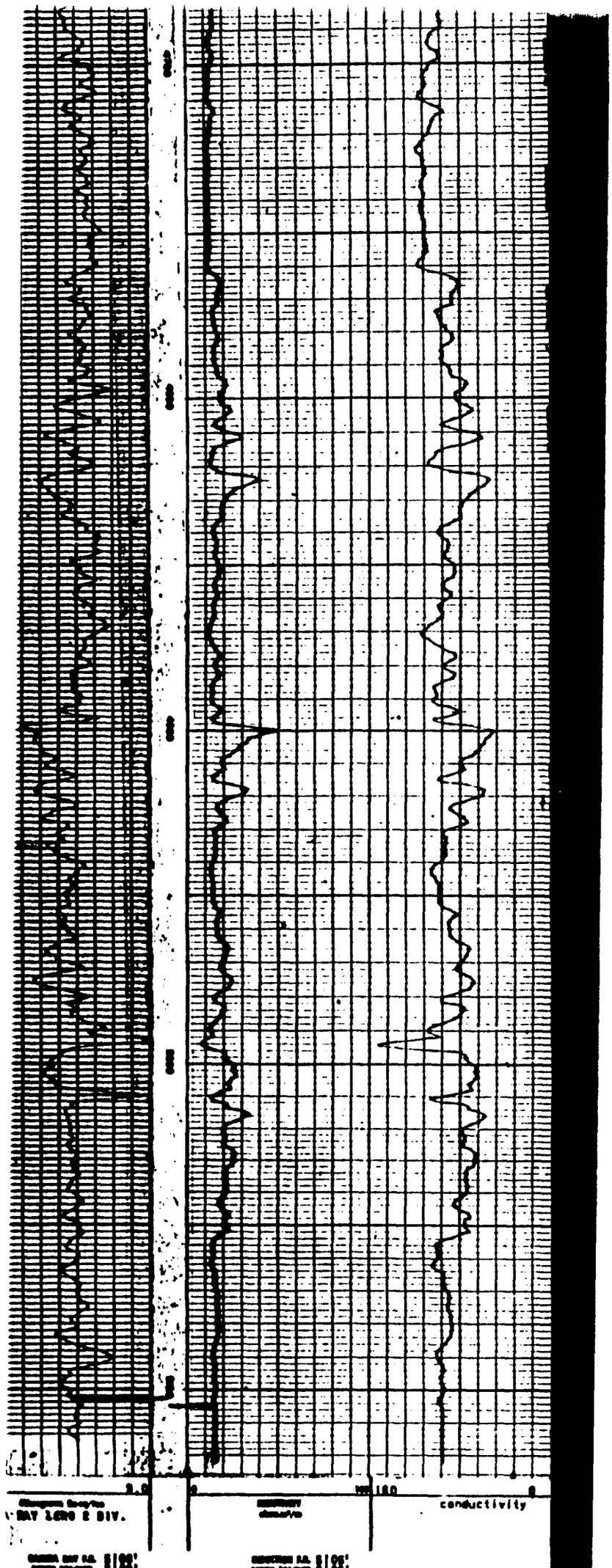

EL PASO NATURAL GAS COMPANY

PROMETEO #2

SAN JUAN, NEW MEXICO

AUG 23 1995

AFFIDAVIT OF PUBLICATION

No. 35102

STATE OF NEW MEXICO
County of San Juan:

ROBERT LOVETT being duly sworn says: That he is the Classified Manager of THE DAILY TIMES, a daily newspaper of general circulation published in English at Farmington, said county and state, and that the hereto attached Legal Notice was published in a regular and entire issue of the said DAILY TIMES, a daily newspaper duly qualified for the purpose within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico for publication on the following day(s):

Monday, July 31, 1995

and the cost of publication was: $18.37

Robert Lovett

On 8/8/95 ROBERT LOVETT appeared before me, whom I know personally to be the person who signed the above document.

Mary A. Snead

My Commission Expires March 21, 1998

COPY OF PUBLICATION

Legals

NOTICE

J.K. Edwards Associates, Inc., 1401 17th Street, Suite 1400, Denver, CO 80202, (303) 298-1400 whose agent is Keith Edwards, hereby notified all interested parties that the following well is to be converted to a water disposal well. Injection will be into the Point Lookout (Mesaverde) interval at approximately 3708' - 3922'. Maximum well rate will be 1000 Bwpd at less than 1100 psi. Any request for information or any objections should be filed with the Oil Conservation Division, State Land Office Building, P.O. Box 2088, Santa Fe, NM 87501, within 15 days of this notice.

Gallegos Gallup Field, Frontier 1-A, NE/4SE/4 Section 8, T26N-R12W, San Juan County, New Mexico.

Legal No. 35102 published in The Daily Times, Farmington, New Mexico, Monday, July 31, 1995.

Post-it® Fax Note 7671	Date 9-7-95	# of pages ▶ 3
To BEN STONE	From RICK LEWIS	
Co./Dept.	Co. J.K. EDWARDS ASSC	
Phone #	Phone #	
Fax # Re: FRONTIER A #1	Fax #	

SENDER:
- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):
1. ☒ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA
1235 LA PLATA HIGHWAY
FARMINGTON NM 87401

4a. Article Number P 879 671 562

4b. Service Type
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery 9-7-95

5. Signature (Addressee)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)

PS Form 3811, December 1991 *U.S. GPO: 1993—352-714 DOMESTIC RETURN RECEIPT

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

SENDER:
- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

DUGAN PRODUCTION COMPANY
ATTN LAND DEPARTMENT
PO BOX 420
FARMINGTON NM 87499

4a. Article Number P 879 671 563

4b. Service Type
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery 8-7-95

5. Signature (Addressee)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)

PS Form 3811, December 1991 *U.S. GPO: 1993—352-714 DOMESTIC RETURN RECEIPT

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

SENDER:
- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

MR MICHAEL STOGNER
NEW MEXICO OIL CONSERVATION
2040 S PACHECO
SANTA FE NM 87505

4a. Article Number P 879 671 564

4b. Service Type
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery 8-7

5. Signature (Addressee)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)

PS Form 3811, December 1991 *U.S. GPO: 1993—352-714 DOMESTIC RETURN RECEIPT

Thank you for using Return Receipt Service.

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SENDER:
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- Complete items 3, and 4a & b.
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- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery
Consult postmaster for fee.

3. Article Addressed to:

MR FRANK CHAVEZ
NEW MEXICO OIL CONSERVATION
1000 RIO BRAZOS ROAD
AZTEC NM 87410

4a. Article Number P 879 671 625

4b. Service Type
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery 8-7-95

8. Addressee's Address (Only if requested and fee is paid)

5. Signature (Addressee)

6. Signature (Agent)

PS Form 3811, December 1991 *U.S. GPO: 1993—352-714 DOMESTIC RETURN RECEIPT

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I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery
Consult postmaster for fee.

JEROME P MCHUGH & ASSOCIATES
NASSAU RESOURCES INC
KINDERMAC PARTNERS
ATTN LAND DEPARTMENT
650 SOUTH CHERRY ST SUITE 1225
DENVER CO 80222

4a. Article Number P 879 671 545

4b. Service Type
☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery

8. Addressee's Address (Only if requested and fee is paid)

5. Signature (Addressee)

6. Signature (Agent)

PS Form 3811, December 1991 *U.S. GPO: 1993—352-714 DOMESTIC RETURN RECEIPT

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Is your RETURN ADDRESS completed on the reverse side?

SENDER:
- Complete items 1 and/or 2 for additional services.
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- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery
Consult postmaster for fee.

MERRION OIL & GAS CORP
ATTN LAND DEPARTMENT
610 REILLY AVENUE
PO BOX 840
FARMINGTON NM 87499

4a. Article Number P 879 671 561

4b. Service Type
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery

8. Addressee's Address (Only if requested and fee is paid)

5. Signature (Addressee)

6. Signature (Agent)

PS Form 3811, December 1991 *U.S. GPO: 1993—352-714 DOMESTIC RETURN RECEIPT

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?