

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]**
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

- [1] **TYPE OF APPLICATION - Check Those Which Apply for [A]**
- [A] Location - Spacing Unit - Simultaneous Dedication
 NSL NSP SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR
- [D] Other: Specify _____

- [2] **NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply**
- [A] Working, Royalty or Overriding Royalty Interest Owners
- [B] Offset Operators, Leaseholders or Surface Owner
- [C] Application is One Which Requires Published Legal Notice
- [D] Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate and complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Paul Lehrman		Landman	4/28/04
Print or Type Name	Signature	Title	Date
		plehrman@digii.net	
		e-mail Address	

New Well

Legal 5/10/04

3 - P2A to Ravelle

0 - Active

3 - TOTAL AOR

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance XX _____ Disposal _____ Storage
Application qualifies for administrative approval? XX Yes _____ No

II. OPERATOR: Richardson Operating Company

ADDRESS: 3100 La Plata Highway, Farmington, New Mexico 87401 564-3100

CONTACT PARTY: Paul Lehrman PHONE: 564-8115

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

IV. Is this an expansion of an existing project? _____ Yes XX 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 geologic data on the injection zone including appropriate lithologic detail, geologic 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/l 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).

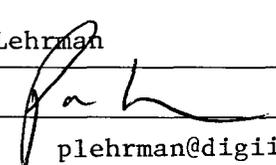
*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

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 sources 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: Paul Lehrman TITLE: Landman

SIGNATURE:  DATE: 4/28/04

E-MAIL ADDRESS: plehrman@digii.net

* 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 circumstances of the earlier submittal: _____

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

FORM C-108
APPLICATION FOR AUTHORIZATION TO INJECT
CONTINUED

Richardson Operating Company
Salty Dog #4 Disposal Well
2580' FSL & 1890' FWL
Section 1, T30N, R14W, NMPM
San Juan County, New Mexico

30-045-32334

III. Injection Well Data: See also attached sheet.

Salty Dog #4 SWD (Federal Oil and Gas Lease NMNM-101552)
2580' FSL & 1890' FWL
Section 1, T30N, R14W, NMPM
San Juan County, New Mexico

ESTIMATED FORMATION TOPS:

<u>Formation</u>	<u>GL Depth</u>	<u>KB Depth</u>	<u>Subsea Elevation</u>
Ojo Alamo	448'	460'	+5,278'
Kirtland Shale	623'	635''	+5,103'
Fruitland Fm	1048'	1060'	+4,678'
Fruitland Coal	1433'	1445'	+4,293'
Pictured Cliffs	1448'	1460'	+4,278'
Lewis Shale	1668'	1680'	+4,058'
Cliff House	3088'	3100'	+2,638'
Menefee	3228'	3240'	+2,498'
Point Lookout	3928'	3940'	+1,798'
Mancos Shale	4,298'	4310'	+1,428'
Total Depth (TD)*	4400'	4412'	+1,326'

*All elevations reflect the ungraded ground level of 5,726'

Formation Tops determined by correlative log from the Little Federal No. 2 well, which was a Dakota completion (P & A'd). Location of this well is 1090' FNL & 1850' FWL-Section 1-T30N-R14W).

CASING AND CEMENTING PROGRAM:

<u>Hole Size</u>	<u>O.D.</u>	<u>Weight (lb/ft)</u>	<u>Grade</u>	<u>Age</u>	<u>GL Setting Depth</u>
12 1/4"	8 5/8"	24	J-55	New	200'
7 7/8"	5 1/2"	15.5	J-55	New	4400'

Surface casing will be cemented to surface with ≈165 cu.ft. (≈150 sx) Class B containing 1/4#/sk cello flake + 2% CaCl. Yield = 1.18 cu. ft/sk; slurry weight = 15.6 ppg. Volume is based on 100% excess. WOC = 12 hours. Pressure test surface casing to 600 psi for 30 minutes.

Production casing hole will first be cleaned by circulating at least 150% of hole volume with drilling fluid to surface. Preceed cement with 20 bbl's of Poz slurry with 2% Kcl. Lead with ≈800 cu.ft. (≈410 sx) Halliburton light cement 65:35 Poz with 1/4#/sk cello flake, 5#/sx Gilsonite, 12.4 ppg, yield of 1.96. Tail in with ≈345 cu.ft. (≈275 sx) 50:50 Poz with 2% CaCl, 1/4#/sk cello flake, 5#/sx Gilsonite, 13.5 ppg, yield 1.32. Total cement volume is ≈1145 cu.ft. based on 100% excess and circulating to surface. Production casing will be cemented to surface.

TUBING: 2 7/8" Plastic Lined (Internally Plastic Coated) Set @ 3080'.

FORM C-108
APPLICATION FOR AUTHORIZATION TO INJECT
CONTINUED

Richardson Operating Company
Salty Dog #4 Disposal Well
2580' FSL & 1890' FWL
Section 1, T30N, R14W, NMPM
San Juan County, New Mexico

PACKER:

Baker Full bore with On/Off Tool set @ 3050'.

INJECTION FORMATION INFORMATION:

Blanco Mesaverde (Cliff House and Point Lookout)

Injection interval, Cliff House (3088'-3228') and Point Lookout (3928' to 4298') will be perforated.

Approximate perforation intervals are based on correlative log from the Little Federal No. 2 well, which was a Dakota completion (P & A'd). Location of this well is 1090' FNL & 1850' FWL-Section 1-T30N-R14W). The Salty Dog #4 will be open hole logged with an SP/Induction and cased hole logged prior to perforations, completion and authorization to inject.

Well is being drilled specifically for injection of fluids.

There are no perforations as this is a new well.

Next highest production from the Cliff House is the Pictured Cliffs (Harper Hill Fruitland Sand PC (Gas) top which is @ approximately 1448'. Next Lower production would be the Menefee Coal which is @ Top of 3228'.

Next highest production from the Point Lookout is the Menefee Coal top which is @ approximately 3228'. Next Lower production would be the Gallup which is @ Top of 5252'.

IV. Is this an expansion of an existing project: No

V. Lease/Well Map: Attached hereto.

VI. Tabulation attached for three wells which penetrate the proposed zone:

- 1) Dick Hunt Federal No. 3 API # (30-045-09897)
- 2) Dick Hunt Federal No. 2 API # (30-045-09525) — 4-STAR
- 3) Little Federal No. 2 API # (30-045-22299)

Tabulations with well type, drilling information, construction, dated drilled, location, depth, record of completion and well bore diagrams attached hereto. All three wells are plugged and abandoned Dakota wells, with the addition of the Dick Hunt Federal No. 3 being a re-completion attempt in the Fruitland, and subsequently plugged and abandoned.

VII. Operating Data:

1) Average Daily volume rate is expected to be approximately 1150 bbls/day. Maximum daily volume rate is expected to be approximately 2000 bbls/day.

2) The system is closed.

FORM C-108
APPLICATION FOR AUTHORIZATION TO INJECT
CONTINUED

Richardson Operating Company
Salty Dog #4 Disposal Well
2580' FSL & 1890' FWL
Section 1, T30N, R14W, NMPM
San Juan County, New Mexico

3) The average injection pressure will be 500 psi. Maximum pressure of 617 psi will be requested with option for additional pressure increase with approved step rate test.

4) Injected water will be produced from the Pictured Cliffs (Harper Hill Fruitland Sand PC) and Fruitland Coal (Basin Fruitland Coal) formations from four State of New Mexico wells (WF State 2-1, 2-2, 2-3, 2-4) and six Federal wells (WF Federal 1-2, 1-1, 12-1, 12-2, 11-1, 11-4). All of these wells are currently being permitted with two (WF State 2-3, WF Federal 12-2), having been drilled but not completed. One well has been completed (WF State 2-1). It is currently shut-in awaiting the approval of this application and several pipeline rights-of-way from the Bureau of Land Management, Farmington Field Office. The produced water will be re-injected into the Mesaverde formation (Cliff House and Point Lookout).

An analysis of water from several Dugan Production Company wells in the vicinity is attached hereto. This water is representative of what Richardson expects from the proposed wells in the Harper Hill PC and Basin Fruitland Coal formations.

5) Injected water is for disposal purposes. An analysis of Mesaverde water is attached hereto from a Dugan Production Company disposal well (Locke #1). This water is representative of what Richardson expects in the vicinity. Richardson will swab in and take a sample of the Mesaverde water and test to assure compatibility.

VIII. Geological Information:

Injection will be in the Mesaverde formation (Cliff House and Point Lookout). Top of the Mesaverde is @ 3088' (Cliff House), with a total thickness of approximately 1210' (including the Menefee Coal). The Cliff House is @ 3088'- 3228' (140') with the Point Lookout @ 3928'-4298' (370'). The Ojo Alamo is a possible source of drinking water being @ 448'. It will be located behind casing and cemented. There are no known sources of drinking water below the proposed injection formation.

IX. Stimulation Program:

If after completion, logging and well analysis, well may be acidized or fracture stimulated as deemed appropriate.

X. Logs:

This well is in the proposal stage and therefore not drilled or logged. The log from the Little Federal No. 2 well, which was a Dakota completion (P & A'd), was used for correlative purposes and is attached hereto. Location of this well is 1090' FNL & 1850' FWL-Section 1-T30N-R14W).

XI. Fresh Water Analysis:

A search of the State Engineer's office in Aztec, New Mexico revealed that there are no fresh water wells within a one mile radius of the proposed disposal well.

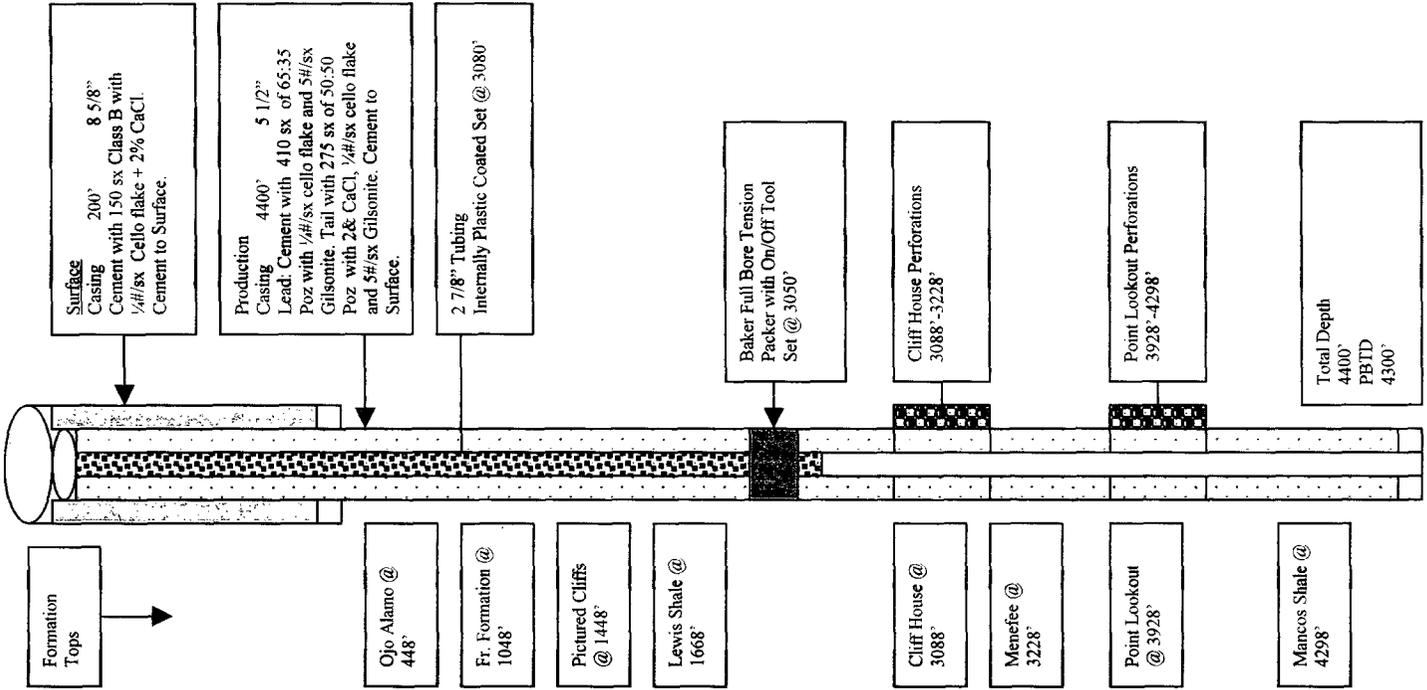
XII.

Richardson Operating Company has examined the available geologic and engineering data and finds no evidence of open faults or any other hydrologic connection between the proposed disposal well and underground sources of drinking water.

XIV. Proof of Notice:

Attached are copies of Certified Mail Receipts along with letters notifying the surface owner, offset operators and leaseholders and a copy of the proof of publication.

Attachment III Continued
 Injection Well Data Sheet
 Well bore Diagram
 Richardson Operating Company
 Salty Dog #4
 2580' FSL & 1890' FWL
 Section 1, T30N, R14W, NMPM
 San Juan County, New Mexico
 Federal Oil and Gas Lease NMNM-101552



Surface Casing 200' 8 5/8" Cement with 150 sx Class B with 1/4#/sx Cello flake + 2% CaCl. Cement to Surface.

Production Casing 4400' 5 1/2" Lead: Cement with 410 sx of 65:35 Poz with 1/4#/sx cello flake and 5#/sx Gilsomite. Tail with 275 sx of 50:50 Poz with 2& CaCl, 1/4#/sx cello flake and 5#/sx Gilsomite. Cement to Surface.

2 7/8" Tubing Internally Plastic Coated Set @ 3080'

Baker Full Bore Tension Packer with On/Off Tool Set @ 3050'

Cliff House Perforations 3088' - 3228'

Point Lookout Perforations 3928' - 4298'

Total Depth 4400' PBTD 4300'

Formation Tops

Ojo Alamo @ 448'

Fr. Formation @ 1048'

Pictured Cliffs @ 1448'

Lewis Shale @ 1668'

Cliff House @ 3088'

Meneife @ 3228'

Point Lookout @ 3928'

Mancos Shale @ 4298'

INJECTION WELL DATA SHEET

OPERATOR: Richardson Operating Company

WELL NAME & NUMBER: Salty Dog #4

WELL LOCATION: 2580' FSL & 1890' FWL

FOOTAGE LOCATION

K

UNIT LETTER

1

SECTION

30 North

TOWNSHIP

14 West

RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

See attached Sheet

Hole Size: 12 1/4" Casing Size: 8 5/8"

Cemented with: 150 Class B sx. or 165 ft³

Top of Cement: Surface Method Determined: Visual

Intermediate Casing

Hole Size: N/A Casing Size:

Cemented with: sx. or ft³

Top of Cement: Method Determined:

Production Casing

Hole Size: 7 7/8" Casing Size: 5 1/2"

Cemented with: 685 sx. or 1145 ft³

Top of Cement: Surface Method Determined: Visual

Total Depth: 4300 PBTD

Injection Interval

Perforated
3088-3228' and 3928-4298' feet to

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

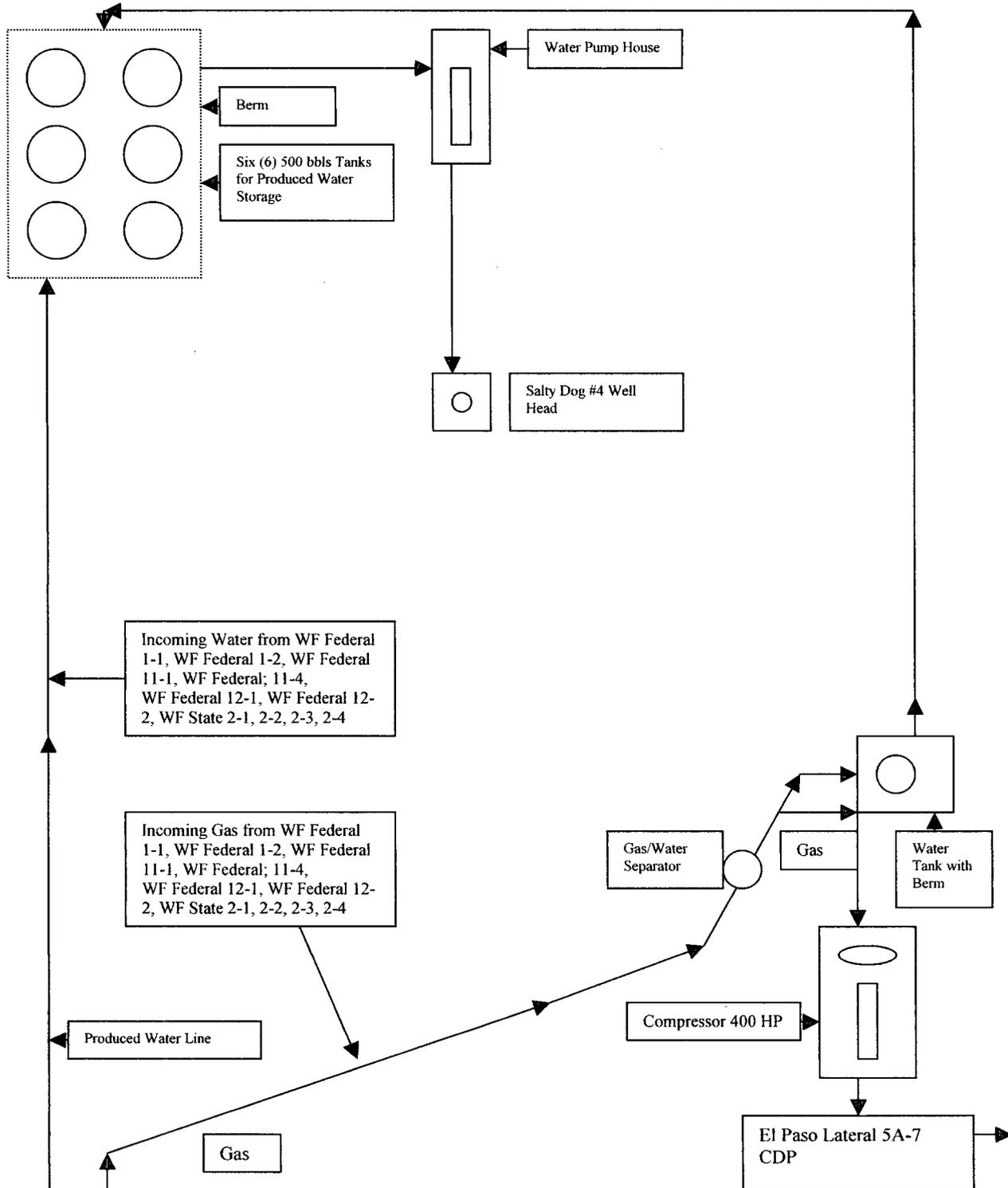
Tubing Size: 2 7/8" Lining Material: Plastic
Type of Packer: Baker Full Bore Tension with On/Off Tool
Packer Setting Depth: 3050'
Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? XX Yes No
If no, for what purpose was the well originally drilled? _____
2. Name of the Injection Formation: Cliff HOUSE AND Point Lookout
3. Name of Field or Pool (if applicable): Blanco Mesaverde
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. _____ No
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: PC @ 1448-1668' Menefee Coal @ 3228-3928'
Gallup Top Estimated @ 5252'

Richardson Operating Company
Salty Dog #4 SWD-El Paso Compressor/CDP
NE/4SW/4-Section 1-T30N-R14W, NMPM
San Juan County, New Mexico
Site Layout

North



FORM C-108
SECTION (VI)
WELLS OF PUBLIC RECORD WITHIN AREA OF REVIEW (1/2 MILE)
APPLICATION FOR AUTHORIZATION TO INJECT
CONTINUED

FOR
*Richardson Operating Company
Salty Dog #4 Disposal Well
2580' FSL & 1890' FWL
Section 1, T30N, R14W, NMPM
San Juan County, New Mexico*

VI. Injection Well Data: Wells of Public Record within 1/2 mile review area.

Source of Information: NMOCD Website (Imaging) and BLM Well Files
Well Name: Dick Hunt Federal #3 (API No. 30-045-09897)
* Well Name Changed to Little Federal #1(See Below)
Location: 1920' FSL & 1565' FWL
Section 1, T30N, R14W, NMPM
San Juan County, New Mexico
Status: Plugged and Abandoned
Date Drilled: 11-23-64
Date Completed: 1-11-65
Depth Drilled: 6275'
Formation Objective: Dakota (Re-Entered as a Proposed Fruitland Formation)
Surface Casing: 8 5/8" @250'
Production Casing: None (See Below) 4 1/2" for Fruitland Completion
Drilling History: Spud well on 11-23-64. Set 8 5/8" surface casing @ 250' and cemented with 130 sx. Plug down @ 10:30 AM, 11-23-64. Total depth of (unreadable on sundry) reached on 12-13-64. Completion report shows TD @ 6275'. Ran electric log. Results show well to be a dry hole.
Electric Log tops as follows:
1493' Pictured Cliffs
1631' Lewis Shale
3098' Mesaverde
4273' Mancos Shale
5260' Gallup
5545' Lower Mancos
6018' Greenhorn Ls
6077' Graneros Shale
6133' Dakota
Note: Log not available.
On 11-19-76 sundry sent to BLM proposing to re-enter wellbore as a Fruitland Completion. Well bore will be cleaned out to cement plug @ 1450'. Notation says well name changed to Little Federal No. 1 from Dick Hunt Federal No. 3 and original operator was Shar-Alan Oil Co. On 1-6-77 sundry to BLM notes that on 12-13-76 ran 37 jts. 4 1/2" 10.5# & 13.5#m CW-55 & N-80, ST&C & LT&C casing (1,397.33') set @ 1406.33' with 150 sx 65/35 pozmix with 12.0% gel followed by 125 sx 50/50 pozmix "A" with 6 1/4 lbs Gilsonite per sx. Cement @ surface. 12-16-76. PBTd @ 1369'. Perfed Fruitland formation 1171'-1179, 1181'-1194' (GR log) with 2 shots per foot; sand water frac. Well completion report on 1-6-77 shows well completed showing 297 Mcf and 0 water. Waiting on pipeline connection. Sundry on 5-4-77 shows ran 36 jts 1 1/4" 2.4# J-55 EVE tubing (1,167.93') landed @ 1,172.93'. Tubing perfs @ 1171'-1173'.
Production History: None (appears no C-104 ever filed with OCD).

Plugging History:

On 12-14-64, sundry sent to BLM with following P & A-spot cement plug from 6081' to 6180' with 35 sx. From 4225-4233' with approximately 30 sx. 3030-3150' with approximately 30 sx. 1440-1540' with approximately 30 sx. Use Approximately 5 sx to surface. Note of verbal approval obtained from USGS to P&A by drilling contractor Floyd J. Ray.

On 12-15-64, subject well was plugged and abandoned as follows: spotted cement plug from 6081' to 6180' with 35 sx. From 4225-4235' with approximately 30 sx. 3050-3150' with approximately 30 sx. 1450-1550' with approximately 30 sx. Approximately 5 sx to surface casing. End of report.

For Fruitland re-entry: File shows schematic for P & A noting verbal approval to P & A given by Errol Beshler on 6-18-80. Sundry on 6-18-80 says well will be plugged with: Spot 35 sx plug @ 1200-750'. Spot 25 sx plug @ 705-376'. Spot 8 sx plug across surface pipe 300 to 200'. Spot 10 sx surface plug and set marker. Clean-up locaton to BLM specs. On 7-25-80 the following P & A took place: Spot 35 sx plug @ 1200-750'. Spot 25 sx plug @ 705-376'. Spot 8 sx plug across surface pipe 300 to 200'. Spot 10 sx surface plug and set marker. Approval given by BLM.

Date of P & A:

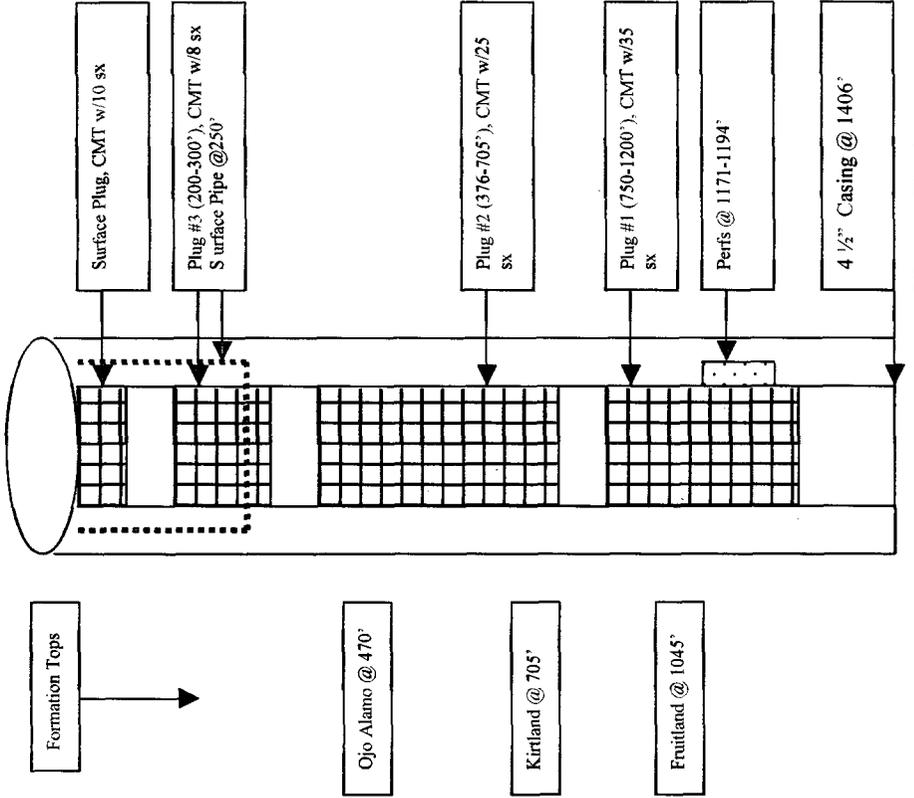
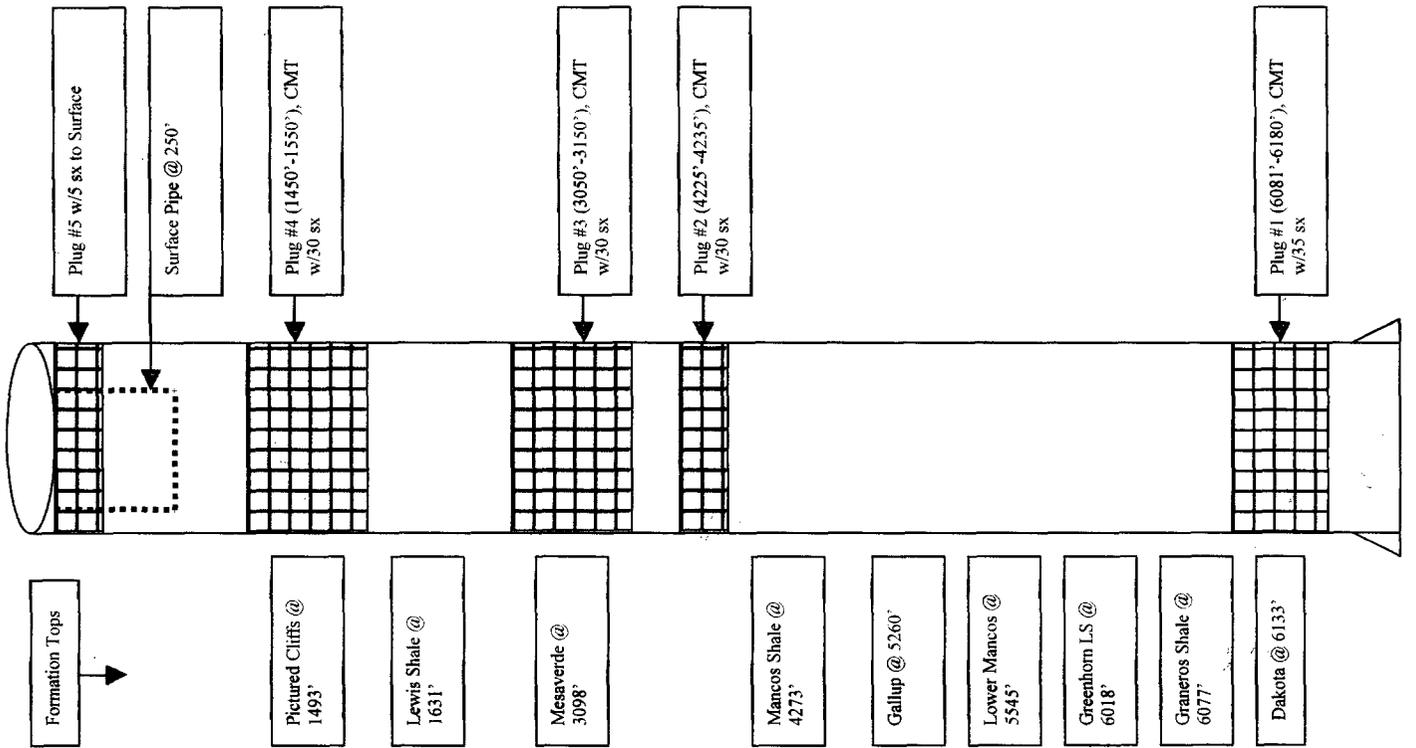
12-15-64. (7-25-80).

Plugging Diagram
Dick Hunt Federal #3
 (Little Federal #1 Below)
 1920' FSL & 1545' FWL
 Section 1, T30N, R14W, NMPM
 San Juan County, New Mexico

Formation Tops on Left



= Cement Plug



Dick Hunt Federal #3

Little Federal #1 Fruitland Re-Entry

FORM C-108
SECTION (VI)
WELLS OF PUBLIC RECORD WITHIN AREA OF REVIEW (1/2 MILE)
APPLICATION FOR AUTHORIZATION TO INJECT
CONTINUED

FOR
*Richardson Operating Company
Salty Dog #4 Disposal Well
2580' FSL & 1890' FWL
Section 1, T30N, R14W, NMPM
San Juan County, New Mexico*

VI. Injection Well Data: Wells of Public Record within 1/2 mile review area.

Source of Information: NMOCD Website (Imaging) and BLM Well Files
Well Name: Dick Hunt Federal #2 (API No. 30-045-09525)
Location: 2150' FNL & 940' FEL
Section 1, T30N, R14W, NMPM
San Juan County, New Mexico
Status: Plugged and Abandoned
Date Drilled: 6-29-64
Date Completed: 1-11-65
Depth Drilled: 6375'
Formation Objective: Dakota
Surface Casing: 8 5/8" @ 225'
Production Casing: 5 1/2" @ 6330'
Drilling History: Spud well on 6-29-64. Set 8 5/8" surface casing @ 225' and cemented with 125 sx. Twisted off @ 5365'. Reached TD of 6375' on 7-20-64. Ran Electric Log. Set 5 1/2" casing @ 6370' Float collar @ 6338'. Cemented with 180 sx. Later report shows: Cemented 5 1/2", 15.5#, J-55 @ 6370' with 200 sx of 50:50 poz. Ran bond and correlation log. Poor cement through Kd. Perf'd @ 6259-60 feet with 4 holes. Ran RTTS packer on 2" tubing. Set packer @ 6240'. Squeezed through perfs @ 6259-6260 with 50 sx. Drilled out cement @ 6280. Pressure tested to 2500 psi for 10 minutes. Perforated 6166-84 with 2 holes per foot. 6219-22, 6233-39, and 6245-51 with 4 holes per foot. Frac treated down 5 1/2 casing with 40K # 20-40 sand and 56K gal. water. Ran 2 3/8" tubing to 6168'. Deviation test showed 1 1/2 degrees @ 6375 TD. Open flow test data showed AOF of 3250 MCF/D on 11-2-64. Pay Zone reflected 6184-6166, 6222-6219, 6239-6233, 6251-6245. Request for Allowable (C-104) was filed on 1-11-65. Top of pay noted as 6166' on test data sheet. Perfs were as follows: 6166-6184, 6219-6222, 6233-6239, 6245-6251.
Production History: Continuous. On 4-6-76 proposal to squeeze Kd because of excessive water production. Sundry proposed to squeeze Kd with 200 sx of cement, refrac and reperf the Kd. Well will then be retested and evaluated as to commercial production. Various changes of ownership, C-104's etc. On 4-11-01, Four Star proposed repairing the casing or a possible P & A if no repair could be made economically. On 8-23-01, Four Star proposed P & A. P & A proposal drawn up by Key Energy with diagram.
Plugging History: On 1-7-03, sundry sent to BLM with following P & A- (12-16-02) MIRU Aztec 580. 850 PSI on tubing.. 870 on csg. Blow down and pump 60 bbls down tubing. N/D wellhead and N/U BOP. Pull 196 jts 2 3/8" tubing (6203.35) and SN with plunger lift. R/U Schlumberger and run 5 1/2" casing ring gauge to 6212'.

Dick Hunt Federal #2 (API No. 30-045-09525)
Continued

Plugging History: Set CIBP @ 6116'. SI overnight. (12-17-02) Run 193 jts (6107') tag CIBP and circ hole. Pressure test casing to 500 psi. OK. Mix and pump 15 sx Class G cement and spot on BP. Lay down 26 jts and STD back 167 jts. R/U Schlumberger and perf two holes @ 5346'. Run Halliburton CMT retainer to 5287' and set. Sting into and could not pump into holes. Spot 15 sx cement on top and POOH. Lay down 68 jts. SI for night.
(12-18-02) POOH and STD BK jts tubing. Perf @ 3195' and set CMT retainer @ 3134'. Pump 40 sx below and spot 15 sx above. POOH and lay down 51 jts and STD back 48 jts. Perf @ 1575' and set CMT retainer @ 1520'. Pump 40 sx below and 15 sx above. POOH and lay down 12 jts and STD BK 36 jts. Perf @ 1254' and set retainer @ 1139'. Pump 40 sx below and 15 sx above. Lay down 36 jts. Perf @ 300' and pump down casing and circulate to bradenhead. Mix and pump 125 sx CMT and circ 10 sx to surface. Shut bradenhead valve and well is plugged. BLM man on location is Mike Wade. Well head cut off and dry hole marker installed. Location cleaned-up.

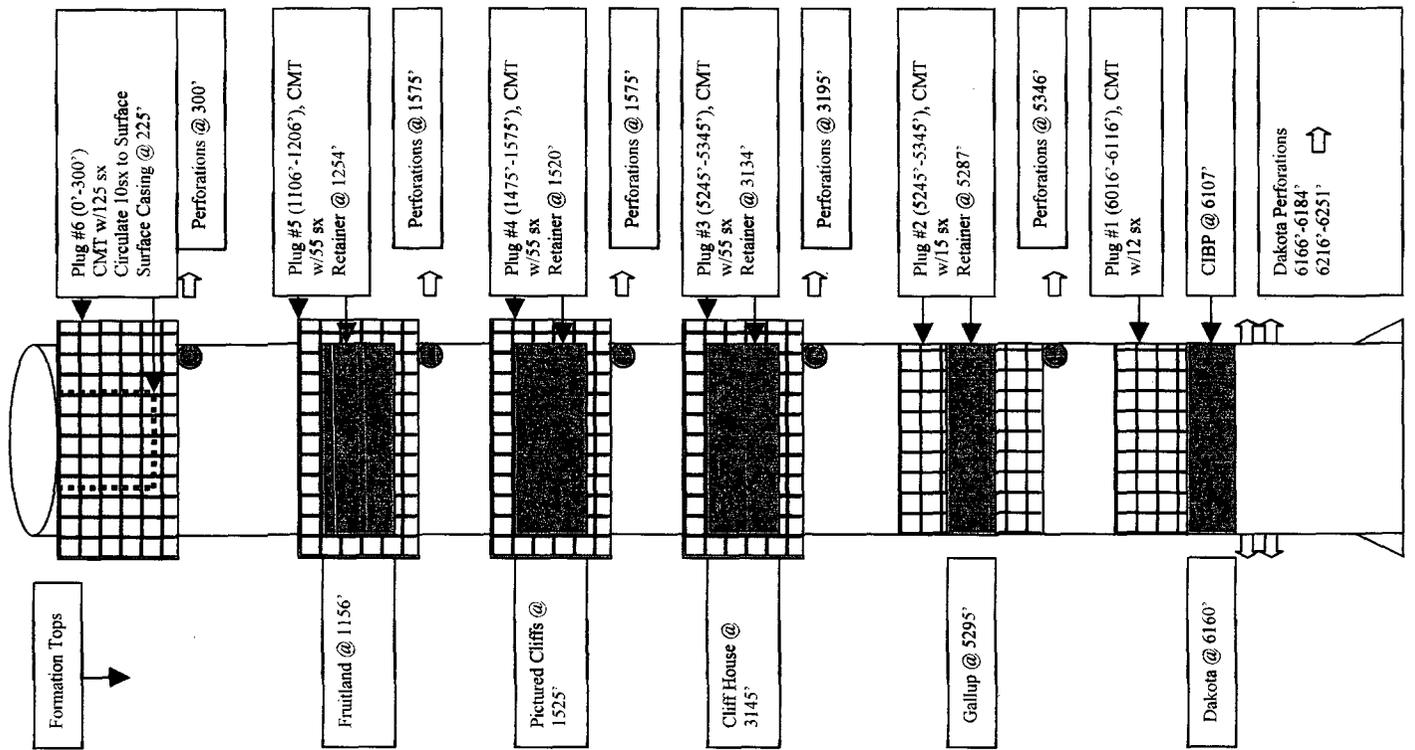
Date of P & A: 12-18-02

Plugging Diagram
 Dick Hunt Federal #2
 2150' FNL & 940' FEL
 Section 1, T30N, R14W, NMPM
 San Juan County, New Mexico

Formation Tops on Left

↑ = Perforations

▢ = Cement Plug



Formation Tops

Plug #6 (0'-300')
 CMT w/125 sx
 Circulate 10sx to Surface
 Surface Casing @ 225'

Perforations @ 300'

Plug #5 (1106'-1206'), CMT
 w/55 sx
 Retainer @ 1254'

Perforations @ 1575'

Plug #4 (1475'-1575'), CMT
 w/55 sx
 Retainer @ 1520'

Perforations @ 1575'

Plug #3 (5245'-5345'), CMT
 w/55 sx
 Retainer @ 3134'

Perforations @ 3195'

Plug #2 (5245'-5345'), CMT
 w/15 sx
 Retainer @ 5287'

Perforations @ 5346'

Plug #1 (6016'-6116'), CMT
 w/12 sx

CIBP @ 6107'

Dakota Perforations
 6166'-6184' ↑
 6216'-6251'

Fruitland @ 1156'

Pictured Cliffs @
 1525'

Cliff House @
 3145'

Gallup @ 5295'

Dakota @ 6160'

FORM C-108
SECTION (VI)
WELLS OF PUBLIC RECORD WITHIN AREA OF REVIEW (1/2 MILE)
APPLICATION FOR AUTHORIZATION TO INJECT
CONTINUED

FOR
*Richardson Operating Company
Salty Dog #4 Disposal Well
2580' FSL & 1890' FWL
Section 1, T30N, R14W, NMPM
San Juan County, New Mexico*

VI. Injection Well Data: Wells of Public Record within 1/2 mile review area.

Source of Information: NMOCD Website (Imaging) and BLM Well Files
Well Name: Little Federal #2 (API No. 30-045-22299)
Location: 1090' FNL & 1850' FWL
Section 1, T30N, R14W, NMPM
San Juan County, New Mexico
Status: Plugged and Abandoned
Date Drilled: 1-13-77
Date Completed: 2-28-77
Depth Drilled: 6556'
Formation Objective: Dakota
Surface Casing: 8 5/8" @ 317'
Production Casing: 4 1/2" @ 6549 (PBTD @ 6522)
Drilling History: Spud well on 1-13-77. Ran 7 jts. 8 5/8", 24#, K-55 casing (294.31') set at 317' with 250 sx Class B with 2% CaCl and 1/4# Flocele per sx. Cement circulated. Test with 500 psig. Test OK. On 1-28-77 TD reached @ 6550'. Ran 165 jts, 4 1/2" 10.5#, GW-55, casing (6,536.97') set @ 6,548.97' with First-Stage-350 sx, 50:50 Pozmix "A" with 12.5 lbs Gilsonite and 6 lbs. Salt per sx. Stage cementing tool @ 1820'. Second stage 175 sx 65-35 pozmix with 12% Gel. AOF of 3.460Mcf/d calculate by Ewell Walsh on 2-16-77. Sundry on 2-28-77 sent in to reflect Peforations in Kd @ 6460'-6466', 6468'-6474', and 6480'-6494' with two shots per foot. Sandwater frac. Well completion report on 2-28-77 to BLM reflected TD of 6556'. Producing interval of 6308'-6494' Kd. Perfs @ 6308'-6384 (38') 2 per shots foot; 6460'-6494 (26') 2 per shots foot.
Production History: Continuous. On 6-3-77 Sundry submitted for setting a retainer @ 6435'. Squeeze perfs @ 6460' to 6494' with 50 sx Class B cement to shut off water. On 4-16-81, E.P.X. filed sundry to run Halliburton E-Z drill squeeze packer to isolate suspected casing leak. Well will be evaluated for repair or P & A. Approval granted to test well until 7-24-81. At the end of time granted it will be required to permanently repair casing in order to produce well. 4-21-81 Ran 201 jts. Of 2 3/8" 4.7# J-55 tubing (6190.64) SET @ 6200.64' with Halliburton EZ "SU" squeeze packer on the bottom to isolate casing leak. Well will be evaluated for formation damage. Various reports on sundry as follows: Dwinell Bros. Rig #1 MIRU and pulled tubing. Isolated casing failure @ 3915'-3560' w/4 1/2" RTTS packer. Ran 4 1/2" cement retainer set @ 3359'. Cemented with/236 cf. cement for squeeze #1. Pressure tested to 1500#. Did not hold. Cemented with 118 cf cement for squeeze #2. Cleaned out to below squeeze. Pressure tested to 1500#, bled off to 750#. TIH w/tubing open ended to 3978'. Spot 49 cf of cement plug across bad casing, Pressure up on casing to 1700 psi-squeeze #3. WOC. Tagged cement @ 3700' & drilled out @ 4000'. Circ hole.

Isolated casing leak w/RTTS between 3770' and 3816'. Set cement retainer @ 3659'. Cemented with 59 cf cement, for squeeze #4.

Drilled cement from 3519' to 3817'. Retainer was @ 3659'. Pressure tested. Held @ 1500#. OK. Blew well w/gas to 3900'. Set 4 1/2" RTTS packer @ 3508'. Isolated leak between 3770' and 3783'. TOO H w packer. Set cement retainer @ 3569'. Cemented with 59 cf of cement for squeeze #5. Drilled out cement. Pressure tested to 1000 psi. held OK. TIH w/ 3 7/8" mill on 2 3/8" tubing blowing down w/gas. Drilled cement. Retainer @ 6200'. Cleaned out with gas to 6435'. Ran 206 jts. of 2 3/8", 4.7# tbg. Set @ 3256'. Baker Model R production packer set @ 4012'. Returned well to production. Change of ownership to Meridian Oil. On 3-25-93.

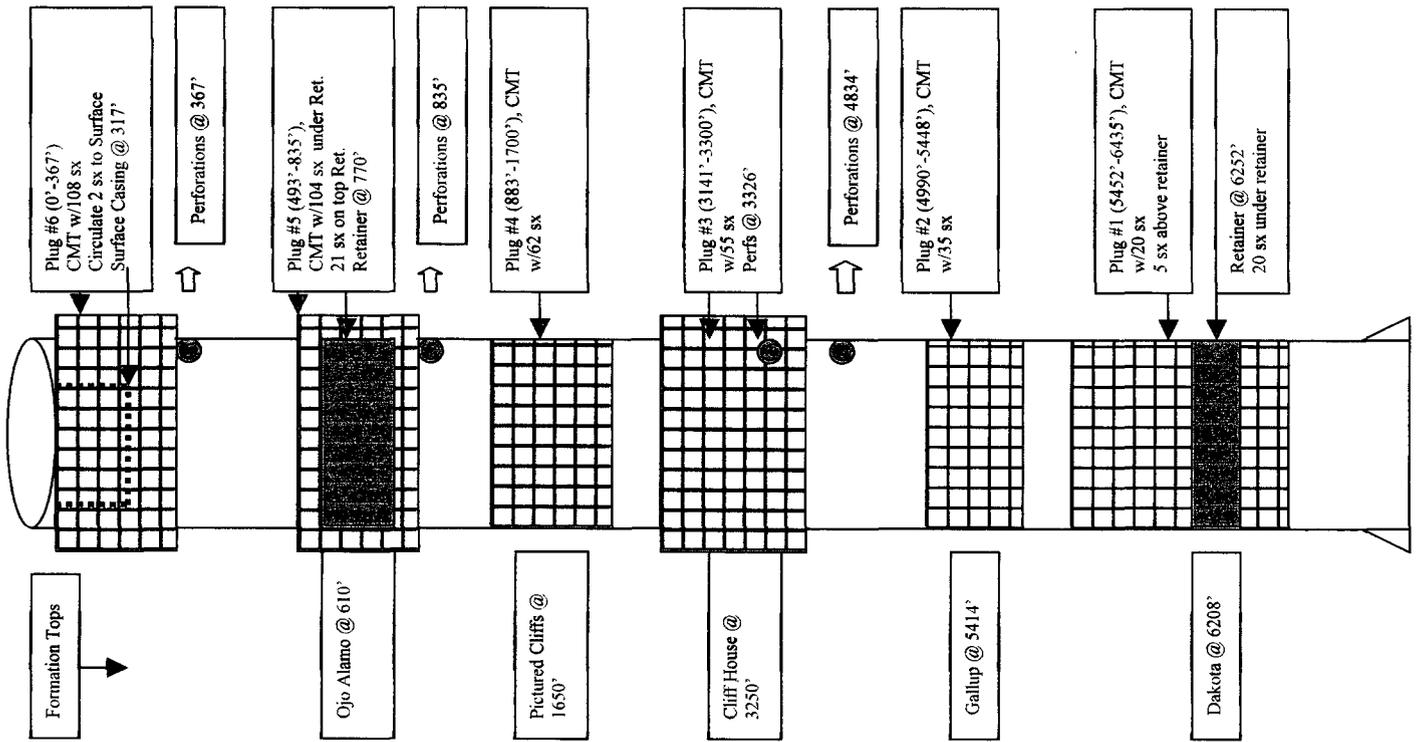
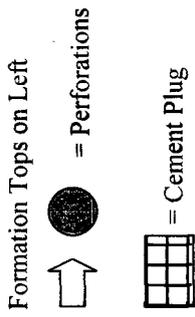
Plugging History:

Sundry sent in to BLM intending to plug & abandon the Little Federal #2 well. Approved on 4-14-93. Plugging procedure with present well bore submitted for approval. Procedure as follows: (6-22-93) MOL & RU. Blew down. Pump 20 BW down tbg. ND WH. NU BOP. TOO H w/tbg & packer. Cmt ret @ 6252'. PT tbg 1400#. Cement plug 6435-6252' with 20 sx Class B cmt under retainer, 5 sx on top. Pull up 20 stds. SDFN. (6-23-93) TIH, tag cement @ 5452'. Approval from BLM to change procedure received. Circ hole w/70 BW. PT csg 425#/5 min, OK. Perf 4 holes change procedure received f/r. Snow. TIH to 5448'. Cmt plug #2 w/35 sx Class B cmt 5448-4990'. Pull up to 4834'. Try to squeeze cmt through perfs by press to 800 psi. Spot 24 bbl 9 # 50 vis mud 4834-3300'. Perf 4 holes @ 3326'. Cmt plug #3 w/55 sx cement outside casing @ 3300' w/1000 psi. Left 20 sx inside csg @ 3036'. (6-24-93) Tag cement @ 3141'. Pull up to 3110'. Load hole with 40 bbl 9 # mud. TOO H to 1694'. Cmt plug #4 1700-883' w/62 sx Class B cement. TOO H to 862'. Reverse circ clean w/13 bbls water. Perf two holes @ 835 and 367' each. Set cement retainer @ 770'. Est. rate. Cement plug #5 835-560' w/104 sx Class B under retainer, and 21 sx on top. TOC @ 493'. TOO H. Est rate out bradenhead. Cmt plug #6 367-surface w/108 sx Class B cmt, circ 2 bbls to surface. WOC. ND BOP. Cut off WH. Install dry hole marker. Released rig. Well plugged and abandoned.

Date of P & A:

6-24-93.

Plugging Diagram
Little Federal #2
 1090' FNL & 1850' FWL
 Section 1, T30N, R14W, NMPM
 San Juan County, New Mexico





American Energy Services
Water Analysis Results Sheet
Farmington NM
708 S. Tucker
Phone:(505)325-4192
Fax:(505)564-3524
Zip:87401

Harper Hill PC
Unit F
Apr - 30-045-30179
14-30-14

Operator:	Dugan Production	Date:	May 5, 2002
Well :	Mucho Deal #14	District:	Farmington
Formation:	Pictured Cliff	Requested by:	John Alexander
County:	San Juan	Technician:	Mike Brown
Depth:	n/a	Source:	Well

Harper Hill PC

PHYSICAL AND CHEMICAL DETERMINATION

SPECIFIC GRAVITY:	1	AT 68 Degrees F.		
pH:	8.7		SULFATES:	0 ppm
IRON:	0	ppm	CALCIUM:	360.0 ppm
H2S:	0	ppm	BICARBONATES:	1988.6 ppm
MAGNESIUM:	1069.2	ppm	RESISTIVITY:	11 ohm/meter
			CHLORIDES:	2800.0 ppm
			SODIUM :	134.2 ppm
			POTASSIUM:	3.0 ppm
			TDS:	6365.98 ppm

CaCO3 Scale Tendency = Possible
CaSO4 Scale Tendency = Remote

REMARKS:

Data contained in this document is based on the best information & most current test procedures and materials available. No liability is expressed or implied.



American Energy Services

Water Analysis Results Sheet
Farmington NM
708 S. Tucker
Phone:(505)325-4192
Fax:(505)564-3524
Zip:87401

30-14

Operator:	Dugan Production	Date:	May 5, 2002
Well :	Tabor Injection Plant	District:	Farmington
Formation:	Fruitland Coal & Pictured Cliff	Requested by:	John Alexander
County:	San Juan	Technician:	Mike Brown
Depth:	n/a	Source:	Well

PHYSICAL AND CHEMICAL DETERMINATION

SPECIFIC GRAVITY: 1.002 AT 68 Degrees F.			
pH:	7.8	SULFATES:	0 ppm
IRON:	0 ppm	CALCIUM:	239.5 ppm
H2S:	0 ppm	BICARBONATES:	1034.9 ppm
MAGNESIUM:	1188.3 ppm	RESISTIVITY:	0.38 ohm/meter
		CHLORIDES:	8383.2 ppm
		SODIUM :	3305.9 ppm
		POTASSIUM:	17.0 ppm
		TDS:	14169.27 ppm

CaCO3 Scale Tendency = Remote
CaSO4 Scale Tendency = Remote

REMARKS:

Data contained in this document is based on the best information & most current test procedures and materials available. No liability is expressed or implied.



American Energy Services

Water Analysis Results Sheet

Farmington NM

708 S. Tucker

Phone:(505)325-4192

Fax:(505)564-3524

Zip:87401

*in Sec. 3-25-14
Locke SWD*

Operator:	Dugan Production	Date:	May 24, 2002
Well :	Locke #1	District:	Farmington
Formation:	Mesa Verde <i>MV</i>	Requested by:	John Alexander
County:	San Juan	Technician:	Mike Brown
Depth:	n/a	Source:	Well

PHYSICAL AND CHEMICAL DETERMINATION

SPECIFIC GRAVITY:	1.05	AT 67 Degrees F.	
pH:	6.89		SULFATES: 0 ppm
IRON:	10	ppm	CALCIUM: 647.6 ppm
H2S:	0	ppm	BICARBONATES: 348.6 ppm
			RESISTIVITY: 0.12 ohm/meter
			CHLORIDES: 24000.0 ppm
			SODIUM : 12274.5 ppm
MAGNESIUM:	1411.7	ppm	POTASSIUM: 300.0 ppm
			TDS: 38992.56 ppm

CaCO3 Scale Tendency = Remote

CaSO4 Scale Tendency = Remote

REMARKS:

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AFFIDAVIT OF PUBLICATION

Ad No. 49756

**STATE OF NEW MEXICO
County of San Juan:**

CONNIE PRUITT, being duly sworn says:
That she 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 and
appeared in the Internet at The Daily Times
web site on the following day(s):

Friday, April 30, 2004.

And the cost of the publication is \$48.67.

Connie Pruitt

ON 5-3-04 CONNIE PRUITT
appeared before me, whom I know personally
to be the person who signed the above
document.

Sunny Beck
My Commission Expires April 2, 2008.

COPY OF PUBLICATION

(Authorization to Inject).
Intended purpose of the
Application will be to drill and
complete the Salty Dog #4 as
a salt water disposal well.
The formation name and
depth will be the Cliff House
(3088'-3228') and the Point
Lookout (3928'-4298').
Maximum injection rate will be
approximately 2000 BWPD.
Maximum injection pressure
will be approximately 617 PSI.
Interested parties must file
their objections or requests for
hearing with the Oil
Conservation Division, 1220
South St. Francis Drive, Santa
Fe, New Mexico 87505, within
15 days.

Legal No. 49756 published in
The Daily Times, Farmington,
New Mexico on Friday, April
30, 2004.

918 Legals

**NOTICE OF INTENT
DRILL SALT WATER
DISPOSAL WELL AND
INJECT PRODUCED
WATER**

Contact Party:
Richardson Operating
Company
3100 La Plata Highway
Farmington, New Mexico
87401
Attn: Paul Lehrman
(505) 564-8115

**Well Name and Legal
Description:**
Salty Dog #4 Swd
2580' FSL & 1890' FWL
Section 1, Township 30 North,
Range 14 West, NMPM
San Juan County,
New Mexico

Richardson Operating
Company is making
application with the New
Mexico Oil Conservation
Division for a C-108

**Continued On
Next Column**

RICHARDSON PRODUCTION COMPANY

501 Airport Drive, Suite 119

Phone (505) 564-8115

FARMINGTON, NM 87401

FAX (505) 564-8334

April 28, 2004

Certified Mail
Return Receipt Requested
Article No. 7002 3150 0002 0907 0615

Credo Petroleum Corporation
Attn: Mr. James T. Huffman
1801 Broadway, Suite 900
Denver, Colorado 80202

RE: C-108 Authorization to Inject Application
Proposed Richardson Salty Dog #4 SWD Well
Township 30 North, Range 14 West, NMPM
2580' FSL & 1890' FWL
Section 1: NE/4SW/4
San Juan County, New Mexico

Dear Mr. Huffman:

As required by New Mexico Oil Conservation Division (NMOCD) Rules, this letter will serve to notify you of the following application (C-108/Authorization to Inject) for a salt water disposal well. This letter is a notice only. No action is required on your part unless you have objections or would like to request a hearing. Any objections or hearing requests must be filed in writing within 15 days of receipt of the application by the NMOCD.

Richardson Operating Company is applying to the NMOCD for a C-108/Authorization to Inject) for its proposed Richardson Operating Salty Dog #4 SWD well in the Cliff House/Point Lookout formation.

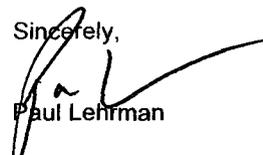
Well Name:	Salty Dog #4
Proposed Injection Zone:	Cliff House/Point Lookout
Location:	2580' FSL & 1890' FWL Section 1, T30N, R14W, NMPM, San Juan Co., NM
Applicant's Name:	Richardson Operating Company
Applicant's Address:	3100 La Plata Highway, Farmington, New Mexico 87401
Applicant's Phone No:	505/564-8115

Submittal Information: Application for a C-108/Authorization to Inject) for a salt water disposal well will be filed with the NMOCD. If they determine the application complies with the regulations, it will be approved. Any questions can be submitted to the New Mexico Oil Conservation Division, whose address is 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. Their phone number is 505/476-3440.

Thank you for your consideration in this matter.

Please call me at 505/564-8115 (Richardson's Land Office) if you have any questions.

Sincerely,


Paul Lehman
Enclosures

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City, State, ZIP+4

Denver, Co 80202

PS Form 3800, June 2002

See Reverse for Instructions

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Credo Petroleum Corp.
Attn: SAMER HUFFMAN
1801 Broadway, Ste 900
Denver, Co 80202

2. Article Number
(Transfer from service label)

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RICHARDSON PRODUCTION COMPANY

501 Airport Drive, Suite 119

Phone (505) 564-8115

FARMINGTON, NM 87401

FAX (505) 564-8334

April 28, 2004

Certified Mail
Return Receipt Requested
Article No. 7002 3150 0002 0907 0622

Mr. R.K. O'Connell
P.O. Box 371
Casper, Wyoming 82602

RE: C-108 Authorization to Inject Application
Proposed Richardson Salty Dog #4 SWD Well
Township 30 North, Range 14 West, NMPM
2580' FSL & 1890' FWL
Section 1: NE/4SW/4
San Juan County, New Mexico

Dear Mr. O'Connell:

As required by New Mexico Oil Conservation Division (NMOCD) Rules, this letter will serve to notify you of the following application (C-108/Authorization to Inject) for a salt water disposal well. This letter is a notice only. No action is required on your part unless you have objections or would like to request a hearing. Any objections or hearing requests must be filed in writing within 15 days of receipt of the application by the NMOCD.

Richardson Operating Company is applying to the NMOCD for a C-108/Authorization to Inject) for its proposed Richardson Operating Salty Dog #4 SWD well in the Cliff House/Point Lookout formation.

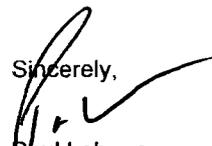
Well Name:	Salty Dog #4
Proposed Injection Zone:	Cliff House/Point Lookout
Location:	2580' FSL & 1890' FWL Section 1, T30N, R14W, NMPM, San Juan Co., NM
Applicant's Name:	Richardson Operating Company
Applicant's Address:	3100 La Plata Highway, Farmington, New Mexico 87401
Applicant's Phone No:	505/564-8115

Submittal Information: Application for a C-108/Authorization to Inject) for a salt water disposal well will be filed with the NMOCD. If they determine the application complies with the regulations, it will be approved. Any questions can be submitted to the New Mexico Oil Conservation Division, whose address is 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. Their phone number is 505/476-3440.

Thank you for your consideration in this matter.

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Sincerely,



Paul Lehrman

Enclosures

SENDER: COMPLETE THIS SECTION

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. R.K. O'Connell
 P.O. Box 371
 Casper, WY 82602

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 X Agent
 Addressee

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 If YES, enter delivery address below: No

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 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

2. Article Number
 (Transfer from service label) 7002 3150 0002 0907 0622

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Sent To
 Mr. R.K. O'Connell
 Street, Apt. No., or PO Box No. P.O. Box 371
 City, State, ZIP+4 Casper, WY 82602

RICHARDSON PRODUCTION COMPANY

501 Airport Drive, Suite 119

Phone (505) 564-8115

FARMINGTON, NM 87401

FAX (505) 564-8334

April 28, 2004

Certified Mail
Return Receipt Requested
Article No. 7002 3150 0002 0907 0639

Ms. C.K. O'Connell
P.O. Box 371
Casper, Wyoming 82602

RE: C-108 Authorization to Inject Application
Proposed Richardson Salty Dog #4 SWD Well
Township 30 North, Range 14 West, NMPM
2580' FSL & 1890' FWL
Section 1: NE/4SW/4
San Juan County, New Mexico

Dear Ms. O'Connell:

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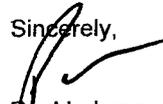
Well Name:	Salty Dog #4
Proposed Injection Zone:	Cliff House/Point Lookout
Location:	2580' FSL & 1890' FWL Section 1, T30N, R14W, NMPM, San Juan Co., NM
Applicant's Name:	Richardson Operating Company
Applicant's Address:	3100 La Plata Highway, Farmington, New Mexico 87401
Applicant's Phone No:	505/564-8115

Submittal Information: Application for a C-108/Authorization to Inject) for a salt water disposal well will be filed with the NMOCD. If they determine the application complies with the regulations, it will be approved. Any questions can be submitted to the New Mexico Oil Conservation Division, whose address is 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. Their phone number is 505/476-3440.

Thank you for your consideration in this matter.

Please call me at 505/564-8115 (Richardson's Land Office) if you have any questions.

Sincerely,



Paul Lehrman

Enclosures

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Sent To
 Street, Apt. No., or PO Box No. *Ms. C.K. O'Connell*
 City, State, ZIP+4 *P.O. Box 371*
Casper, WY 82602

PS Form 3800, June 2002 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

1. Article Addressed to:
Ms. C.K. O'Connell
P.O. Box 371
Casper, WY 82602

2. Article Number
 (Transfer from service label)
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PS Form 3811, August 2001 Domestic Return Receipt 2ACPRI-03-Z-0985

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RICHARDSON PRODUCTION COMPANY

501 Airport Drive, Suite 119

Phone (505) 564-8115

FARMINGTON, NM 87401

FAX (505) 564-8334

April 28, 2004

Certified Mail
Return Receipt Requested
Article No. 7002 3150 0002 0907 0646

Mr. Bill D. Farleigh
P.O. Box 3215
Casper, Wyoming 82602

RE: C-108 Authorization to Inject Application
Proposed Richardson Salty Dog #4 SWD Well
Township 30 North, Range 14 West, NMPM
2580' FSL & 1890' FWL
Section 1: NE/4SW/4
San Juan County, New Mexico

Dear Mr. Farleigh:

As required by New Mexico Oil Conservation Division (NMOCD) Rules, this letter will serve to notify you of the following application (C-108/Authorization to Inject) for a salt water disposal well. This letter is a notice only. No action is required on your part unless you have objections or would like to request a hearing. Any objections or hearing requests must be filed in writing within 15 days of receipt of the application by the NMOCD.

Richardson Operating Company is applying to the NMOCD for a C-108/Authorization to Inject) for its proposed Richardson Operating Salty Dog #4 SWD well in the Cliff House/Point Lookout formation.

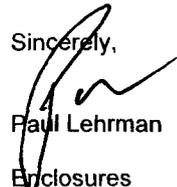
Well Name:	Salty Dog #4
Proposed Injection Zone:	Cliff House/Point Lookout
Location:	2580' FSL & 1890' FWL Section 1, T30N, R14W, NMPM, San Juan Co., NM
Applicant's Name:	Richardson Operating Company
Applicant's Address:	3100 La Plata Highway, Farmington, New Mexico 87401
Applicant's Phone No:	505/564-8115

Submittal Information: Application for a C-108/Authorization to Inject) for a salt water disposal well will be filed with the NMOCD. If they determine the application complies with the regulations, it will be approved. Any questions can be submitted to the New Mexico Oil Conservation Division, whose address is 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. Their phone number is 505/476-3440.

Thank you for your consideration in this matter.

Please call me at 505/564-8115 (Richardson's Land Office) if you have any questions.

Sincerely,


Paul Lehrman

Enclosures

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS. FOLD AT DOTTED LINE.

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Sent To
 Mr. BILL Farleigh
 Street, Apt. No.;
 or PO Box No. P.O. Box 3215
 City, State, ZIP+4 Casper, WY 82602
 PS Form 3800, June 2002 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

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1. Article Addressed to:

Mr. BILL Farleigh
P.O. Box 3215
Casper, WY 82602

2. Article Number
(Transfer from service label)

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PS Form 3811, August 2001

Domestic Return Receipt

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A. Signature
X Agent
 Addressee

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D. Is delivery address different from item 1? Yes
if YES, enter delivery address below: No

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4. Restricted Delivery? (Extra Fee) Yes

RICHARDSON PRODUCTION COMPANY

501 Airport Drive, Suite 119

Phone (505) 564-8115

FARMINGTON, NM 87401

FAX (505) 564-8334

April 28, 2004

Certified Mail
Return Receipt Requested
Article No. 7002 3150 0002 0907 0653

Don E. Lawson and Marjorie C. Lawson, Trustees
330 S. Center Street
Casper, Wyoming 82601

RE: C-108 Authorization to Inject Application
Proposed Richardson Salty Dog #4 SWD Well
Township 30 North, Range 14 West, NMPM
2580' FSL & 1890' FWL
Section 1: NE/4SW/4
San Juan County, New Mexico

Dear Mr. And Mrs. Lawson:

As required by New Mexico Oil Conservation Division (NMOCD) Rules, this letter will serve to notify you of the following application (C-108/Authorization to Inject) for a salt water disposal well. This letter is a notice only. No action is required on your part unless you have objections or would like to request a hearing. Any objections or hearing requests must be filed in writing within 15 days of receipt of the application by the NMOCD.

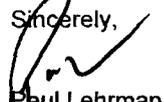
Richardson Operating Company is applying to the NMOCD for a C-108/Authorization to Inject) for its proposed Richardson Operating Salty Dog #4 SWD well in the Cliff House/Point Lookout formation.

Well Name:	Salty Dog #4
Proposed Injection Zone:	Cliff House/Point Lookout
Location:	2580' FSL & 1890' FWL Section 1, T30N, R14W, NMPM, San Juan Co., NM
Applicant's Name:	Richardson Operating Company
Applicant's Address:	3100 La Plata Highway, Farmington, New Mexico 87401
Applicant's Phone No:	505/564-8115

Submittal Information: Application for a C-108/Authorization to Inject) for a salt water disposal well will be filed with the NMOCD. If they determine the application complies with the regulations, it will be approved. Any questions can be submitted to the New Mexico Oil Conservation Division, whose address is 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. Their phone number is 505/476-3440.

Thank you for your consideration in this matter.

Please call me at 505/564-8115 (Richardson's Land Office) if you have any questions.

Sincerely,

Paul Lehrman
Enclosures

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE
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Sent To Don E. & Marjorie C. Lawson
 Street, Apt. No.;
 or PO Box No. 320 S. Center St.
 City, State, ZIP+4 Casper, WY 82601

PS Form 3800, June 2002

See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

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1. Article Addressed to:

Don E. & Marjorie C. Lawson Tr.
320 S. Center St
Casper, WY 82601

2. Article Number
 (Transfer from service label)

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PS Form 3811, August 2001

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Addressee

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Registered

Return Receipt for Merchandise

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4. Restricted Delivery? (Extra Fee)

Yes

RICHARDSON PRODUCTION COMPANY

501 Airport Drive, Suite 119

Phone (505) 564-8115

FARMINGTON, NM 87401

FAX (505) 564-8334

April 28, 2004

Certified Mail
Return Receipt Requested
Article No. 7002 3150 0002 0907 0660

Mr. Roger Herrera
Bureau of Land Management
1235 La Plata Highway
Farmington, NM 87401

RE: C-108 Authorization to Inject Application
Proposed Richardson Salty Dog #4 SWD Well
Township 30 North, Range 14 West, NMPM
2580' FSL & 1890' FWL
Section 1: NE/4SW/4
San Juan County, New Mexico

Dear Mr. Herrera:

As required by New Mexico Oil Conservation Division (NMOCD) Rules, this letter will serve to notify you of the following application (C-108/Authorization to Inject) for a salt water disposal well. This letter is a notice only. No action is required on your part unless you have objections or would like to request a hearing. Any objections or hearing requests must be filed in writing within 15 days of receipt of the application by the NMOCD.

Richardson Operating Company is applying to the NMOCD for a C-108/Authorization to Inject) for its proposed Richardson Operating Salty Dog #4 SWD well in the Cliff House/Point Lookout formation.

Well Name:	Salty Dog #4
Proposed Injection Zone:	Cliff House/Point Lookout
Location:	2580' FSL & 1890' FWL Section 1, T30N, R14W, NMPM, San Juan Co., NM
Applicant's Name:	Richardson Operating Company
Applicant's Address:	3100 La Plata Highway, Farmington, New Mexico 87401
Applicant's Phone No:	505/564-8115

Submittal Information: Application for a C-108/Authorization to Inject) for a salt water disposal well will be filed with the NMOCD. If they determine the application complies with the regulations, it will be approved. Any questions can be submitted to the New Mexico Oil Conservation Division, whose address is 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. Their phone number is 505/476-3440.

Thank you for your consideration in this matter.

Please call me at 505/564-8115 (Richardson's Land Office) if you have any questions.

Sincerely,

Paul Lehrman
Enclosures

SENDER: COMPLETE THIS SECTION

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. Roger Herrera
 Bureau of Land Management
 1235 LePlante Hwy
 Fern, NM 87401

2. Article Number

(Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

 Agent Addressee

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4. Restricted Delivery? (Extra Fee)

 Yes

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RICHARDSON PRODUCTION COMPANY

501 Airport Drive, Suite 119

Phone (505) 564-8115

FARMINGTON, NM 87401

FAX (505) 564-8334

April 28, 2004

Certified Mail
Return Receipt Requested
Article No. 7002 3150 0002 0907 0677

Mr. Tom Schmidt
Four Star Oil & Gas Company
P.O. Box 36366
Houston, TX 77236-6366

RE: C-108 Authorization to Inject Application
Proposed Richardson Salty Dog #4 SWD Well
Township 30 North, Range 14 West, NMPM
2580' FSL & 1890' FWL
Section 1: NE/4SW/4
San Juan County, New Mexico

Dear Mr. Schmidt:

As required by New Mexico Oil Conservation Division (NMOCD) Rules, this letter will serve to notify you of the following application (C-108/Authorization to Inject) for a salt water disposal well. This letter is a notice only. No action is required on your part unless you have objections or would like to request a hearing. Any objections or hearing requests must be filed in writing within 15 days of receipt of the application by the NMOCD.

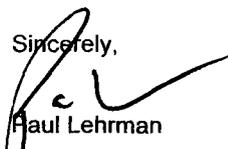
Richardson Operating Company is applying to the NMOCD for a C-108/Authorization to Inject) for its proposed Richardson Operating Salty Dog #4 SWD well in the Cliff House/Point Lookout formation.

Well Name:	Salty Dog #4
Proposed Injection Zone:	Cliff House/Point Lookout
Location:	2580' FSL & 1890' FWL Section 1, T30N, R14W, NMPM, San Juan Co., NM
Applicant's Name:	Richardson Operating Company
Applicant's Address:	3100 La Plata Highway, Farmington, New Mexico 87401
Applicant's Phone No:	505/564-8115

Submittal Information: Application for a C-108/Authorization to Inject) for a salt water disposal well will be filed with the NMOCD. If they determine the application complies with the regulations, it will be approved. Any questions can be submitted to the New Mexico Oil Conservation Division, whose address is 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. Their phone number is 505/476-3440.

Thank you for your consideration in this matter.

Please call me at 505/564-8115 (Richardson's Land Office) if you have any questions.

Sincerely,

Paul Lehrman
Enclosures

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>X</p> <p>B. Received by (Printed Name) C. Date of Delivery</p>
<p>1. Article Addressed to:</p> <p>Mr. Tom Schmidt Four Star Oil & Gas Co. P.O. Box 36366 Houston, TX 77236-6366</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>2. Article Number (Transfer from service label)</p>	<p>3. Service Type <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Certified Mail <input type="checkbox"/> Registered <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>7002 3150 0002 0907 0677</p>	

PS Form 3811, August 2001

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Total Postage & Fees	\$	

Sent To

Four Star Oil & Gas / Tom Schmidt

Street, Apt. No.,
or PO Box No. P.O. Box 36366

City, State, ZIP+4 Houston, TX 77236-6366

PS Form 3800, June 2002 See Reverse for Instructions

7002 3150 0002 0907 0677

RICHARDSON PRODUCTION COMPANY

501 Airport Drive, Suite 119

Phone (505) 564-8115

FARMINGTON, NM 87401

FAX (505) 564-8334

April 28, 2004

Certified Mail

Return Receipt Requested

Article No. 7002 3150 0002 0907 0684

Mr. Claude Nebeker
742 19th Street
Evanston, WY 82930

RE: C-108 Authorization to Inject Application
Proposed Richardson Salty Dog #4 SWD Well
Township 30 North, Range 14 West, NMPM
2580' FSL & 1890' FWL
Section 1: NE/4SW/4
San Juan County, New Mexico

Dear Mr. Nebeker:

As required by New Mexico Oil Conservation Division (NMOCD) Rules, this letter will serve to notify you of the following application (C-108/Authorization to Inject) for a salt water disposal well. This letter is a notice only. No action is required on your part unless you have objections or would like to request a hearing. Any objections or hearing requests must be filed in writing within 15 days of receipt of the application by the NMOCD.

Richardson Operating Company is applying to the NMOCD for a C-108/Authorization to Inject) for its proposed Richardson Operating Salty Dog #4 SWD well in the Cliff House/Point Lookout formation.

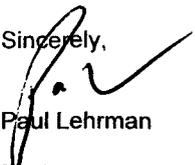
Well Name:	Salty Dog #4
Proposed Injection Zone:	Cliff House/Point Lookout
Location:	2580' FSL & 1890' FWL Section 1, T30N, R14W, NMPM, San Juan Co., NM
Applicant's Name:	Richardson Operating Company
Applicant's Address:	3100 La Plata Highway, Farmington, New Mexico 87401
Applicant's Phone No:	505/564-8115

Submittal Information: Application for a C-108/Authorization to Inject) for a salt water disposal well will be filed with the NMOCD. If they determine the application complies with the regulations, it will be approved. Any questions can be submitted to the New Mexico Oil Conservation Division, whose address is 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. Their phone number is 505/476-3440.

Thank you for your consideration in this matter.

Please call me at 505/564-8115 (Richardson's Land Office) if you have any questions.

Sincerely,


Paul Lehrman

Enclosures

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1. Article Addressed to:

Claude Nebeker
742 19th St.
Evanston, WY 82930

2. Article Number

(Transfer from service label)

7002 3150 0002 0907 0684

PS Form 3811, August 2001

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A. Signature

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 Agent Addressee

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(Endorsement Required)

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Sent To

Claude Nebeker

Street, Apt. No.,
or PO Box No.

742 19th St

City, State, ZIP+4

Evanston, WY 82930

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RICHARDSON PRODUCTION COMPANY

501 Airport Drive, Suite 119

Phone (505) 564-8115

FARMINGTON, NM 87401

FAX (505) 564-8334

April 28, 2004

Certified Mail
Return Receipt Requested
Article No. 7002 3150 0002 0907 0691

Mr. James Drollinger
1900 N 3000 W
Vernal, UT 84078

RE: C-108 Authorization to Inject Application
Proposed Richardson Salty Dog #4 SWD Well
Township 30 North, Range 14 West, NMPM
2580' FSL & 1890' FWL
Section 1: NE/4SW/4
San Juan County, New Mexico

Dear Mr. Drollinger:

As required by New Mexico Oil Conservation Division (NMOCD) Rules, this letter will serve to notify you of the following application (C-108/Authorization to Inject) for a salt water disposal well. This letter is a notice only. No action is required on your part unless you have objections or would like to request a hearing. Any objections or hearing requests must be filed in writing within 15 days of receipt of the application by the NMOCD.

Richardson Operating Company is applying to the NMOCD for a C-108/Authorization to Inject) for its proposed Richardson Operating Salty Dog #4 SWD well in the Cliff House/Point Lookout formation.

Well Name:	Salty Dog #4
Proposed Injection Zone:	Cliff House/Point Lookout
Location:	2580' FSL & 1890' FWL Section 1, T30N, R14W, NMPM, San Juan Co., NM
Applicant's Name:	Richardson Operating Company
Applicant's Address:	3100 La Plata Highway, Farmington, New Mexico 87401
Applicant's Phone No:	505/564-8115

Submittal Information: Application for a C-108/Authorization to Inject) for a salt water disposal well will be filed with the NMOCD. If they determine the application complies with the regulations, it will be approved. Any questions can be submitted to the New Mexico Oil Conservation Division, whose address is 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. Their phone number is 505/476-3440.

Thank you for your consideration in this matter.

Please call me at 505/564-8115 (Richardson's Land Office) if you have any questions.

Sincerely,



Paul Lehrman

Enclosures

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

JAMES DROLLINGER
 1900 N. 3000 W.
 Vernal, VT 84078

2. Article Number
 (Transfer from service label)

7002 3150 0002 0907 0691

PS Form 3811, August 2001

Domestic Return Receipt

2ACPRI-03-Z-0985

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- Agent
- Addressee

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C. Date of Delivery

D. Is delivery address different from item 1? Yes
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3. Service Type

- Certified Mail
- Registered
- Insured Mail
- Express Mail
- Return Receipt for Merchandise
- C.O.D.

4. Restricted Delivery? (Extra Fee)

Yes

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Total Postage & Fees	\$

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Street, Apt. No.,
or PO Box No.

JAMES DROLLINGER

City, State, ZIP+4

1900 N. 3000 W.
Vernal, VT 84078

PS Form 3800, June 2002

See Reverse for Instructions

RICHARDSON PRODUCTION COMPANY

501 Airport Drive, Suite 119

Phone (505) 564-8115

FARMINGTON, NM 87401

FAX (505) 564-8334

April 28, 2004

Certified Mail
Return Receipt Requested
Article No. 7002 3150 0002 0907 0707

Mr. Lyle J. Robision
Route 3, Box 108
Rexburg, ID 83440

RE: C-108 Authorization to Inject Application
Proposed Richardson Salty Dog #4 SWD Well
Township 30 North, Range 14 West, NMPM
2580' FSL & 1890' FWL
Section 1: NE/4SW/4
San Juan County, New Mexico

Dear Mr. Robision:

As required by New Mexico Oil Conservation Division (NMOCD) Rules, this letter will serve to notify you of the following application (C-108/Authorization to Inject) for a salt water disposal well. This letter is a notice only. No action is required on your part unless you have objections or would like to request a hearing. Any objections or hearing requests must be filed in writing within 15 days of receipt of the application by the NMOCD.

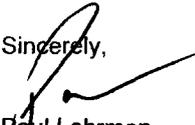
Richardson Operating Company is applying to the NMOCD for a C-108/Authorization to Inject) for its proposed Richardson Operating Salty Dog #4 SWD well in the Cliff House/Point Lookout formation.

Well Name:	Salty Dog #4
Proposed Injection Zone:	Cliff House/Point Lookout
Location:	2580' FSL & 1890' FWL Section 1, T30N, R14W, NMPM, San Juan Co., NM
Applicant's Name:	Richardson Operating Company
Applicant's Address:	3100 La Plata Highway, Farmington, New Mexico 87401
Applicant's Phone No:	505/564-8115

Submittal Information: Application for a C-108/Authorization to Inject) for a salt water disposal well will be filed with the NMOCD. If they determine the application complies with the regulations, it will be approved. Any questions can be submitted to the New Mexico Oil Conservation Division, whose address is 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. Their phone number is 505/476-3440.

Thank you for your consideration in this matter.

Please call me at 505/564-8115 (Richardson's Land Office) if you have any questions.

Sincerely,

Paul Lehrman
Enclosures

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 		<p>A. Signature X <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p>	
<p>1. Article Addressed to:</p> <p>Lyle J. Robison Rt 3, Box 108 Rexburg, ID 83440</p>		<p>B. Received by (Printed Name) _____ C. Date of Delivery _____</p>	
<p>2. Article Number (Transfer from service label) 7002 3150 0002 0907 0707</p>		<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes if YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>3. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p>		<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	
<p>PS Form 3811, August 2001</p>		<p>Domestic Return Receipt</p>	

2ACPRI-03-Z-0985

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Sent To **Lyle J. Robison**
 Street, Apt. No., or PO Box No. **Rt 3, Box 108**
 City, State, ZIP+4 **Rexburg, ID 83440**

PS Form 3800, June 2002 See Reverse for Instructions

7002 3150 0002 0907 0707

RICHARDSON PRODUCTION COMPANY

501 Airport Drive, Suite 119

Phone (505) 564-8115

FARMINGTON, NM 87401

FAX (505) 564-8334

April 28, 2004

Certified Mail
Return Receipt Requested
Article No. 7002 3150 0002 0907 0714

Ms. Melva Jean Bowen
PO Box 149
Aberdeen, MS 39370

RE: C-108 Authorization to Inject Application
Proposed Richardson Salty Dog #4 SWD Well
Township 30 North, Range 14 West, NMPM
2580' FSL & 1890' FWL
Section 1: NE/4SW/4
San Juan County, New Mexico

Dear Ms. Bowen:

As required by New Mexico Oil Conservation Division (NMOCD) Rules, this letter will serve to notify you of the following application (C-108/Authorization to Inject) for a salt water disposal well. This letter is a notice only. No action is required on your part unless you have objections or would like to request a hearing. Any objections or hearing requests must be filed in writing within 15 days of receipt of the application by the NMOCD.

Richardson Operating Company is applying to the NMOCD for a C-108/Authorization to Inject) for its proposed Richardson Operating Salty Dog #4 SWD well in the Cliff House/Point Lookout formation.

Well Name:	Salty Dog #4
Proposed Injection Zone:	Cliff House/Point Lookout
Location:	2580' FSL & 1890' FWL Section 1, T30N, R14W, NMPM, San Juan Co., NM
Applicant's Name:	Richardson Operating Company
Applicant's Address:	3100 La Plata Highway, Farmington, New Mexico 87401
Applicant's Phone No:	505/564-8115

Submittal Information: Application for a C-108/Authorization to Inject) for a salt water disposal well will be filed with the NMOCD. If they determine the application complies with the regulations, it will be approved. Any questions can be submitted to the New Mexico Oil Conservation Division, whose address is 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. Their phone number is 505/476-3440.

Thank you for your consideration in this matter.

Please call me at 505/564-8115 (Richardson's Land Office) if you have any questions.

Sincerely,



Paul Lehrman

Enclosures

PS Form 3800, June 2002 See Reverse for Instructions

Sent To
 Melva Jean Bowen
 Street, Apt. No.
 P.O. Box 149
 City, State, ZIP+4
 Aberdeen MS 39720

7002 3150 0002 0907 0714
 2002 3150 0002 0907 0714

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Total Postage & Fees	\$

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1. Article Addressed to:
 Ms. Melva Jean Bowen
 P.O. Box 149
 Aberdeen, MS 39730

2. Article Number
 (Transfer from service label)

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 X Agent Addressee

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 if YES, enter delivery address below: No

3. Service Type
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 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

7002 3150 0002 0907 0714

RICHARDSON PRODUCTION COMPANY

501 Airport Drive, Suite 119

Phone (505) 564-8115

FARMINGTON, NM 87401

FAX (505) 564-8334

April 28, 2004

Certified Mail
Return Receipt Requested
Article No. 7002 3150 0002 0907 0721

Shirl R. Kump
PO Box 216
Rangely, CO 81648

RE: C-108 Authorization to Inject Application
Proposed Richardson Salty Dog #4 SWD Well
Township 30 North, Range 14 West, NMPM
2580' FSL & 1890' FWL
Section 1: NE/4SW/4
San Juan County, New Mexico

Dear Mr. Kump:

As required by New Mexico Oil Conservation Division (NMOCD) Rules, this letter will serve to notify you of the following application (C-108/Authorization to Inject) for a salt water disposal well. This letter is a notice only. No action is required on your part unless you have objections or would like to request a hearing. Any objections or hearing requests must be filed in writing within 15 days of receipt of the application by the NMOCD.

Richardson Operating Company is applying to the NMOCD for a C-108/Authorization to Inject) for its proposed Richardson Operating Salty Dog #4 SWD well in the Cliff House/Point Lookout formation.

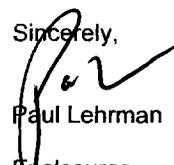
Well Name:	Salty Dog #4
Proposed Injection Zone:	Cliff House/Point Lookout
Location:	2580' FSL & 1890' FWL Section 1, T30N, R14W, NMPM, San Juan Co., NM
Applicant's Name:	Richardson Operating Company
Applicant's Address:	3100 La Plata Highway, Farmington, New Mexico 87401
Applicant's Phone No:	505/564-8115

Submittal Information: Application for a C-108/Authorization to Inject) for a salt water disposal well will be filed with the NMOCD. If they determine the application complies with the regulations, it will be approved. Any questions can be submitted to the New Mexico Oil Conservation Division, whose address is 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. Their phone number is 505/476-3440.

Thank you for your consideration in this matter.

Please call me at 505/564-8115 (Richardson's Land Office) if you have any questions.

Sincerely,


Paul Lehrman

Enclosures

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS. FOLD AT DOTTED LINE

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Postmark Here

Sent To Shirl R. Kemp
 Street, Apt. No., or PO Box No. P.O. Box 216
 City, State, ZIP+4 Rangely Co 81648

PS Form 3800, June 2002 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
Shirl R. Kemp
P.O. Box 216
Rangely, Co 81648

COMPLETE THIS SECTION ON DELIVERY

A. Signature X Agent Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? Yes No
 if YES, enter delivery address below:

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

2. Article Number (Transfer from service label) 7002 3150 0002 0907 0721

RICHARDSON PRODUCTION COMPANY

501 Airport Drive, Suite 119

Phone (505) 564-8115

FARMINGTON, NM 87401

FAX (505) 564-8334

April 28, 2004

Certified Mail
Return Receipt Requested
Article No. 7002 3150 0002 0907 0738

Larson Caldwell
1974 West 800 South
Vernal, UT 84078

RE: C-108 Authorization to Inject Application
Proposed Richardson Salty Dog #4 SWD Well
Township 30 North, Range 14 West, NMPM
2580' FSL & 1890' FWL
Section 1: NE/4SW/4
San Juan County, New Mexico

Dear Mr. Caldwell:

As required by New Mexico Oil Conservation Division (NMOCD) Rules, this letter will serve to notify you of the following application (C-108/Authorization to Inject) for a salt water disposal well. This letter is a notice only. No action is required on your part unless you have objections or would like to request a hearing. Any objections or hearing requests must be filed in writing within 15 days of receipt of the application by the NMOCD.

Richardson Operating Company is applying to the NMOCD for a C-108/Authorization to Inject) for its proposed Richardson Operating Salty Dog #4 SWD well in the Cliff House/Point Lookout formation.

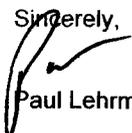
Well Name:	Salty Dog #4
Proposed Injection Zone:	Cliff House/Point Lookout
Location:	2580' FSL & 1890' FWL Section 1, T30N, R14W, NMPM, San Juan Co., NM
Applicant's Name:	Richardson Operating Company
Applicant's Address:	3100 La Plata Highway, Farmington, New Mexico 87401
Applicant's Phone No:	505/564-8115

Submittal Information: Application for a C-108/Authorization to Inject) for a salt water disposal well will be filed with the NMOCD. If they determine the application complies with the regulations, it will be approved. Any questions can be submitted to the New Mexico Oil Conservation Division, whose address is 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. Their phone number is 505/476-3440.

Thank you for your consideration in this matter.

Please call me at 505/564-8115 (Richardson's Land Office) if you have any questions.

Sincerely,


Paul Lehrman

Enclosures

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	A. Signature X <input type="checkbox"/> Agent <input type="checkbox"/> Addressee	
1. Article Addressed to: <p style="text-align: center;">Larson Caldwell 1974 W. 800 S. Vernal, VT 84078</p>	B. Received by (Printed Name)	C. Date of Delivery
2. Article Number (Transfer from service label)	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No 3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D. 4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	
7002 3150 0002 0907 0738		

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<table border="1"> <tr><td>Postage</td><td>\$</td></tr> <tr><td>Certified Fee</td><td></td></tr> <tr><td>Return Receipt Fee (Endorsement Required)</td><td></td></tr> <tr><td>Restricted Delivery Fee (Endorsement Required)</td><td></td></tr> <tr><td>Total Postage & Fees</td><td>\$</td></tr> </table>	Postage	\$	Certified Fee		Return Receipt Fee (Endorsement Required)		Restricted Delivery Fee (Endorsement Required)		Total Postage & Fees	\$	Postmark Here
Postage	\$										
Certified Fee											
Return Receipt Fee (Endorsement Required)											
Restricted Delivery Fee (Endorsement Required)											
Total Postage & Fees	\$										
<table border="1"> <tr> <td>Sent To</td> <td>Larson Caldwell</td> </tr> <tr> <td>Street, Apt. No.; or PO Box No.</td> <td>1974 W. 800 S.</td> </tr> <tr> <td>City, State, ZIP+4</td> <td>Vernal, VT 84078</td> </tr> </table>		Sent To	Larson Caldwell	Street, Apt. No.; or PO Box No.	1974 W. 800 S.	City, State, ZIP+4	Vernal, VT 84078				
Sent To	Larson Caldwell										
Street, Apt. No.; or PO Box No.	1974 W. 800 S.										
City, State, ZIP+4	Vernal, VT 84078										
PS Form 3800, June 2002 See Reverse for Instructions											

RICHARDSON PRODUCTION COMPANY

501 Airport Drive, Suite 119

Phone (505) 564-8115

FARMINGTON, NM 87401

FAX (505) 564-8334

April 28, 2004

Certified Mail
Return Receipt Requested
Article No. 7002 3150 0002 0907 0745

Dr. Dale Larson
157 N 1st East
Roosevelt, UT 84066

RE: C-108 Authorization to Inject Application
Proposed Richardson Salty Dog #4 SWD Well
Township 30 North, Range 14 West, NMPM
2580' FSL & 1890' FWL
Section 1: NE/4SW/4
San Juan County, New Mexico

Dear Dr. Larsen:

As required by New Mexico Oil Conservation Division (NMOCD) Rules, this letter will serve to notify you of the following application (C-108/Authorization to Inject) for a salt water disposal well. This letter is a notice only. No action is required on your part unless you have objections or would like to request a hearing. Any objections or hearing requests must be filed in writing within 15 days of receipt of the application by the NMOCD.

Richardson Operating Company is applying to the NMOCD for a C-108/Authorization to Inject) for its proposed Richardson Operating Salty Dog #4 SWD well in the Cliff House/Point Lookout formation.

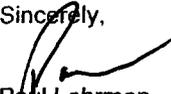
Well Name:	Salty Dog #4
Proposed Injection Zone:	Cliff House/Point Lookout
Location:	2580' FSL & 1890' FWL Section 1, T30N, R14W, NMPM, San Juan Co., NM
Applicant's Name:	Richardson Operating Company
Applicant's Address:	3100 La Plata Highway, Farmington, New Mexico 87401
Applicant's Phone No:	505/564-8115

Submittal Information: Application for a C-108/Authorization to Inject) for a salt water disposal well will be filed with the NMOCD. If they determine the application complies with the regulations, it will be approved. Any questions can be submitted to the New Mexico Oil Conservation Division, whose address is 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. Their phone number is 505/476-3440.

Thank you for your consideration in this matter.

Please call me at 505/564-8115 (Richardson's Land Office) if you have any questions.

Sincerely,


Paul Lehrman

Enclosures

SENDER: COMPLETE THIS SECTION

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1. Article Addressed to:

Dr. Dale Larsen
 157 N. 1ST E.
 Roosevelt, VT 84066

2. Article Number

(Transfer from service label)

7002 3150 0002 0907 0745

PS Form 3811, August 2001

Domestic Return Receipt

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A. Signature

X

Agent

Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? Yes

If YES, enter delivery address below: No

3. Service Type

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Express Mail

Registered

Return Receipt for Merchandise

Insured Mail

C.O.D.

4. Restricted Delivery? (Extra Fee)

Yes

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Dr. Dale Larsen
 157 N. 1ST E.
 Roosevelt, VT 84066

PS Form 3800, June 2002

See Reverse for Instructions

RICHARDSON PRODUCTION COMPANY

501 Airport Drive, Suite 119

Phone (505) 564-8115

FARMINGTON, NM 87401

FAX (505) 564-8334

April 28, 2004

Certified Mail
Return Receipt Requested
Article No. 7002 3150 0002 0907 0752

Frank Kelch
322 S. David
Casper, WY 82601

RE: C-108 Authorization to Inject Application
Proposed Richardson Salty Dog #4 SWD Well
Township 30 North, Range 14 West, NMPM
2580' FSL & 1890' FWL
Section 1: NE/4SW/4
San Juan County, New Mexico

Dear Mr. Kelch:

As required by New Mexico Oil Conservation Division (NMOCD) Rules, this letter will serve to notify you of the following application (C-108/Authorization to Inject) for a salt water disposal well. This letter is a notice only. No action is required on your part unless you have objections or would like to request a hearing. Any objections or hearing requests must be filed in writing within 15 days of receipt of the application by the NMOCD.

Richardson Operating Company is applying to the NMOCD for a C-108/Authorization to Inject) for its proposed Richardson Operating Salty Dog #4 SWD well in the Cliff House/Point Lookout formation.

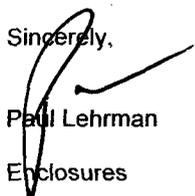
Well Name:	Salty Dog #4
Proposed Injection Zone:	Cliff House/Point Lookout
Location:	2580' FSL & 1890' FWL Section 1, T30N, R14W, NMPM, San Juan Co., NM
Applicant's Name:	Richardson Operating Company
Applicant's Address:	3100 La Plata Highway, Farmington, New Mexico 87401
Applicant's Phone No:	505/564-8115

Submittal Information: Application for a C-108/Authorization to Inject) for a salt water disposal well will be filed with the NMOCD. If they determine the application complies with the regulations, it will be approved. Any questions can be submitted to the New Mexico Oil Conservation Division, whose address is 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. Their phone number is 505/476-3440.

Thank you for your consideration in this matter.

Please call me at 505/564-8115 (Richardson's Land Office) if you have any questions.

Sincerely,


Paul Lehrman

Enclosures

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Sent To: **Frank G. Kelleh**
 Street, Apt. No. or PO Box No.: **322 S. David**
 City, State, ZIP+4: **Casper, WY 82601**

PS Form 3800, June 2002
 See Reverse for Instructions

RICHARDSON PRODUCTION COMPANY

501 Airport Drive, Suite 119

Phone (505) 564-8115

FARMINGTON, NM 87401

FAX (505) 564-8334

April 28, 2004

Certified Mail
Return Receipt Requested
Article No. 7002 3150 0002 0907 0769

Dale Allen
Box 583
Mills, WY 82644

RE: C-108 Authorization to Inject Application
Proposed Richardson Salty Dog #4 SWD Well
Township 30 North, Range 14 West, NMPM
2580' FSL & 1890' FWL
Section 1: NE/4SW/4
San Juan County, New Mexico

Dear Mr. Allen:

As required by New Mexico Oil Conservation Division (NMOCD) Rules, this letter will serve to notify you of the following application (C-108/Authorization to Inject) for a salt water disposal well. This letter is a notice only. No action is required on your part unless you have objections or would like to request a hearing. Any objections or hearing requests must be filed in writing within 15 days of receipt of the application by the NMOCD.

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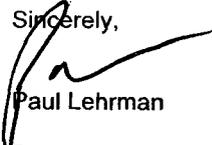
Well Name:	Salty Dog #4
Proposed Injection Zone:	Cliff House/Point Lookout
Location:	2580' FSL & 1890' FWL Section 1, T30N, R14W, NMPM, San Juan Co., NM
Applicant's Name:	Richardson Operating Company
Applicant's Address:	3100 La Plata Highway, Farmington, New Mexico 87401
Applicant's Phone No:	505/564-8115

Submittal Information: Application for a C-108/Authorization to Inject) for a salt water disposal well will be filed with the NMOCD. If they determine the application complies with the regulations, it will be approved. Any questions can be submitted to the New Mexico Oil Conservation Division, whose address is 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. Their phone number is 505/476-3440.

Thank you for your consideration in this matter.

Please call me at 505/564-8115 (Richardson's Land Office) if you have any questions.

Sincerely,


Paul Lehrman

Enclosures

PS Form 3800, June 2002 See Reverse for Instructions

Sent To: Dale Allen
 Street, Apt. No.: P.O. Box 583
 City, State, ZIP+4: Mills WY 82644

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Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

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7002 3150 0002 0907 0769

RICHARDSON PRODUCTION COMPANY

501 Airport Drive, Suite 119

Phone (505) 564-8115

FARMINGTON, NM 87401

FAX (505) 564-8334

April 28, 2004

Certified Mail
Return Receipt Requested
Article No. 7002 3150 0002 0907 0776

Edward Colton
Box 389
Vernal, UT 84078

RE: C-108 Authorization to Inject Application
Proposed Richardson Salty Dog #4 SWD Well
Township 30 North, Range 14 West, NMPM
2580' FSL & 1890' FWL
Section 1: NE/4SW/4
San Juan County, New Mexico

Dear Mr. Colton:

As required by New Mexico Oil Conservation Division (NMOCD) Rules, this letter will serve to notify you of the following application (C-108/Authorization to Inject) for a salt water disposal well. This letter is a notice only. No action is required on your part unless you have objections or would like to request a hearing. Any objections or hearing requests must be filed in writing within 15 days of receipt of the application by the NMOCD.

Richardson Operating Company is applying to the NMOCD for a C-108/Authorization to Inject) for its proposed Richardson Operating Salty Dog #4 SWD well in the Cliff House/Point Lookout formation.

Well Name:	Salty Dog #4
Proposed Injection Zone:	Cliff House/Point Lookout
Location:	2580' FSL & 1890' FWL Section 1, T30N, R14W, NMPM, San Juan Co., NM
Applicant's Name:	Richardson Operating Company
Applicant's Address:	3100 La Plata Highway, Farmington, New Mexico 87401
Applicant's Phone No:	505/564-8115

Submittal Information: Application for a C-108/Authorization to Inject) for a salt water disposal well will be filed with the NMOCD. If they determine the application complies with the regulations, it will be approved. Any questions can be submitted to the New Mexico Oil Conservation Division, whose address is 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. Their phone number is 505/476-3440.

Thank you for your consideration in this matter.

Please call me at 505/564-8115 (Richardson's Land Office) if you have any questions.

Sincerely,


Paul Lehrman

Enclosures

PS Form 3800, June 2002
See Reverse for Instructions

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 Street, Apt. No.,
 or PO Box No.
 Box 389
 Vernal, VT 84078
 City, State, ZIP+4

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
 Edward Colton
 Box 389
 Vernal, VT
 84078

2. Article Number
 (Transfer from service label)

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 X Addressee

B. Received by (Printed Name) C. Date of Delivery

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3. Service Type
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 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

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RICHARDSON PRODUCTION COMPANY

501 Airport Drive, Suite 119

Phone (505) 564-8115

FARMINGTON, NM 87401

FAX (505) 564-8334

April 28, 2004

Certified Mail
Return Receipt Requested
Article No. 7002 3150 0002 0907 0783

Dr. Lamar B. Roemer
530 S. University
Denver, CO 80209

RE: C-108 Authorization to Inject Application
Proposed Richardson Salty Dog #4 SWD Well
Township 30 North, Range 14 West, NMPM
2580' FSL & 1890' FWL
Section 1: NE/4SW/4
San Juan County, New Mexico

Dear Dr. Roemer:

As required by New Mexico Oil Conservation Division (NMOCD) Rules, this letter will serve to notify you of the following application (C-108/Authorization to Inject) for a salt water disposal well. This letter is a notice only. No action is required on your part unless you have objections or would like to request a hearing. Any objections or hearing requests must be filed in writing within 15 days of receipt of the application by the NMOCD.

Richardson Operating Company is applying to the NMOCD for a C-108/Authorization to Inject) for its proposed Richardson Operating Salty Dog #4 SWD well in the Cliff House/Point Lookout formation.

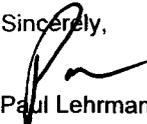
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Location:	2580' FSL & 1890' FWL Section 1, T30N, R14W, NMPM, San Juan Co., NM
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Thank you for your consideration in this matter.

Please call me at 505/564-8115 (Richardson's Land Office) if you have any questions.

Sincerely,


Paul Lehrman

Enclosures

PS Form 3811, August 2001
(Transfer from service label)

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Domestic Return Receipt
ZACPR1-03-Z-0985

SENDER: COMPLETE THIS SECTION	
<p>1. Article Addressed to:</p> <p style="text-align: center; font-size: 1.2em;">Dr. Lamar B. Roemer 530 S. University Denver, CO 80209</p> <p>2. Article Number</p> <p>3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Insured Mail <input type="checkbox"/> Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p> <p>4. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <p>A. Signature <input checked="" type="checkbox"/> Agent B. Received by (Printed Name) <input type="checkbox"/> Addressee C. Date of Delivery</p>	<p>5. Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</p> <p>6. Print your name and address on the reverse so that we can return the card to you.</p> <p>7. Attach this card to the back of the mailpiece, or on the front if space permits.</p>
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Here

Sent To

Dr. Lamar B. Roemer

Street, Apt. No.,
or PO Box No. 530 S. University

City, State, ZIP+4 Denver, CO 80209



March 17, 2004

Mr. Jim Copeland
District Archaeologist
Bureau of Land Management
1235 La Plata Highway
Farmington, NM 87401

Dear Jim:

Please find enclosed two copies of the survey report I prepared for Richardson Operating Company's Salty Dog #4 well pad, located in San Juan County, NM. No cultural resources were encountered and archaeological clearance is recommended for the project.

If you have any questions about the survey report, please let me know.

Sincerely,

Steven L. Fuller

Enclosures

cc: **Anne Jones, Richardson Operating Company**

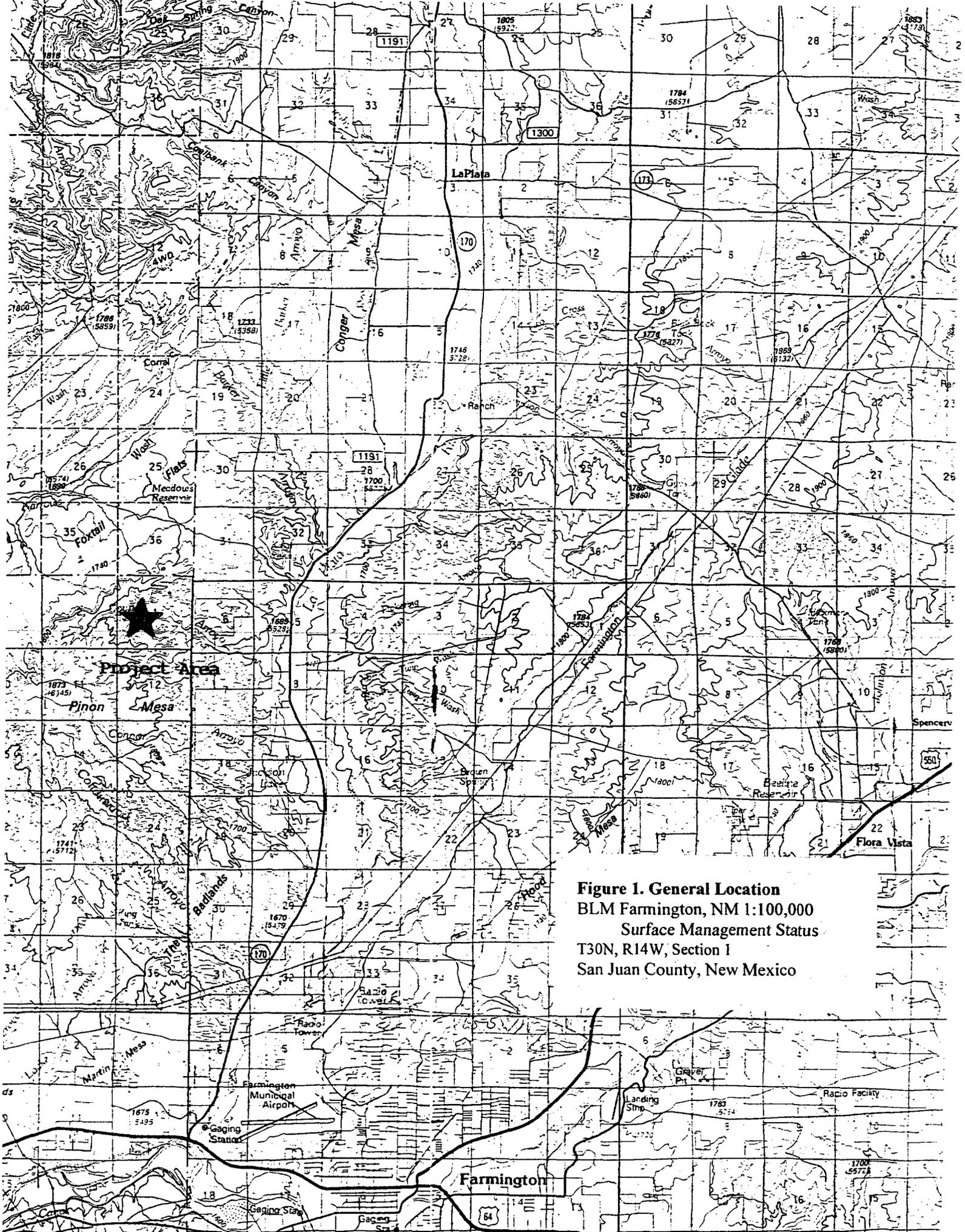
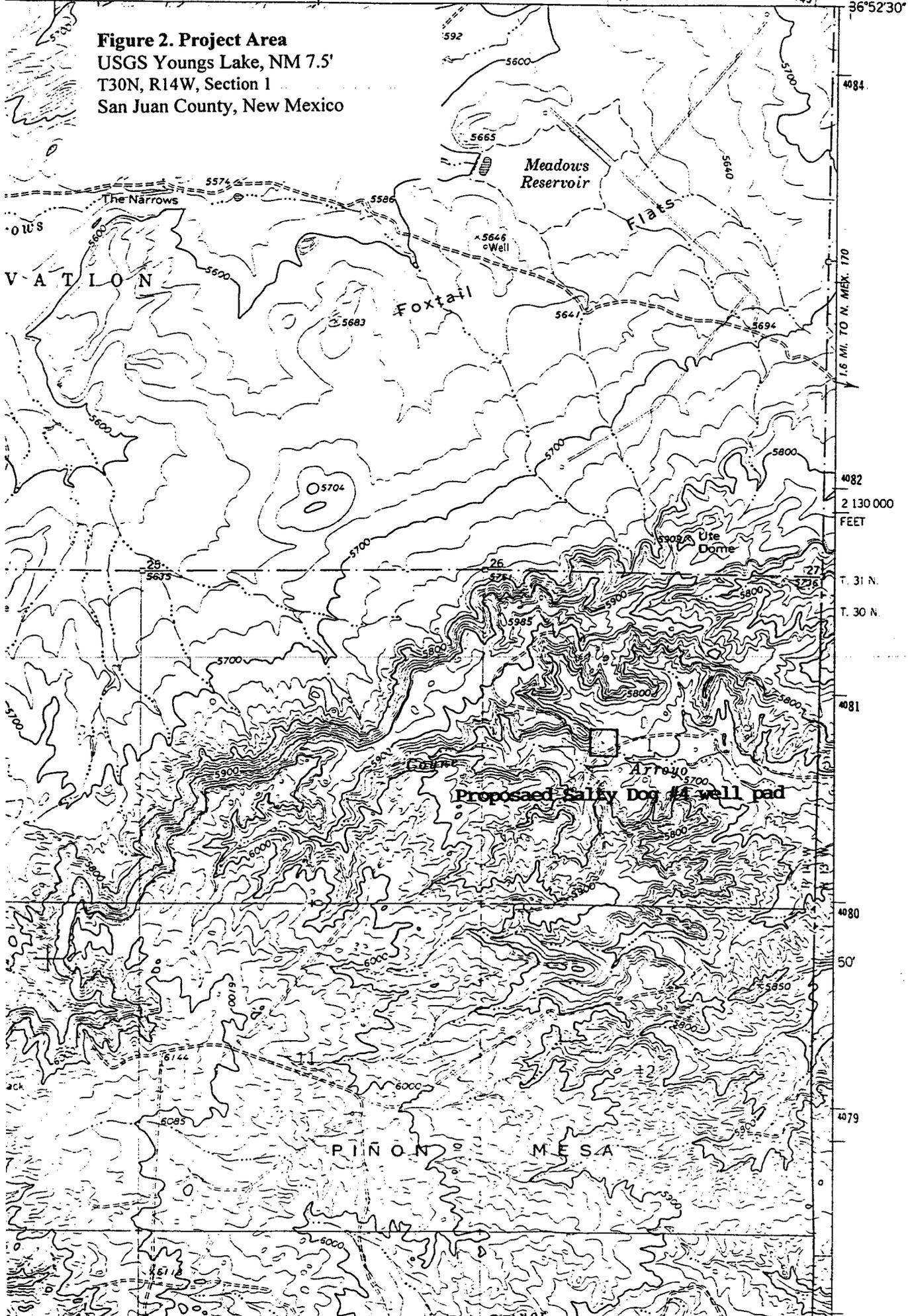


Figure 1. General Location
 BLM Farmington, NM 1:100,000
 Surface Management Status
 T30N, R14W, Section 1
 San Juan County, New Mexico

Figure 2. Project Area
USGS Youngs Lake, NM 7.5'
T30N, R14W, Section 1
San Juan County, New Mexico



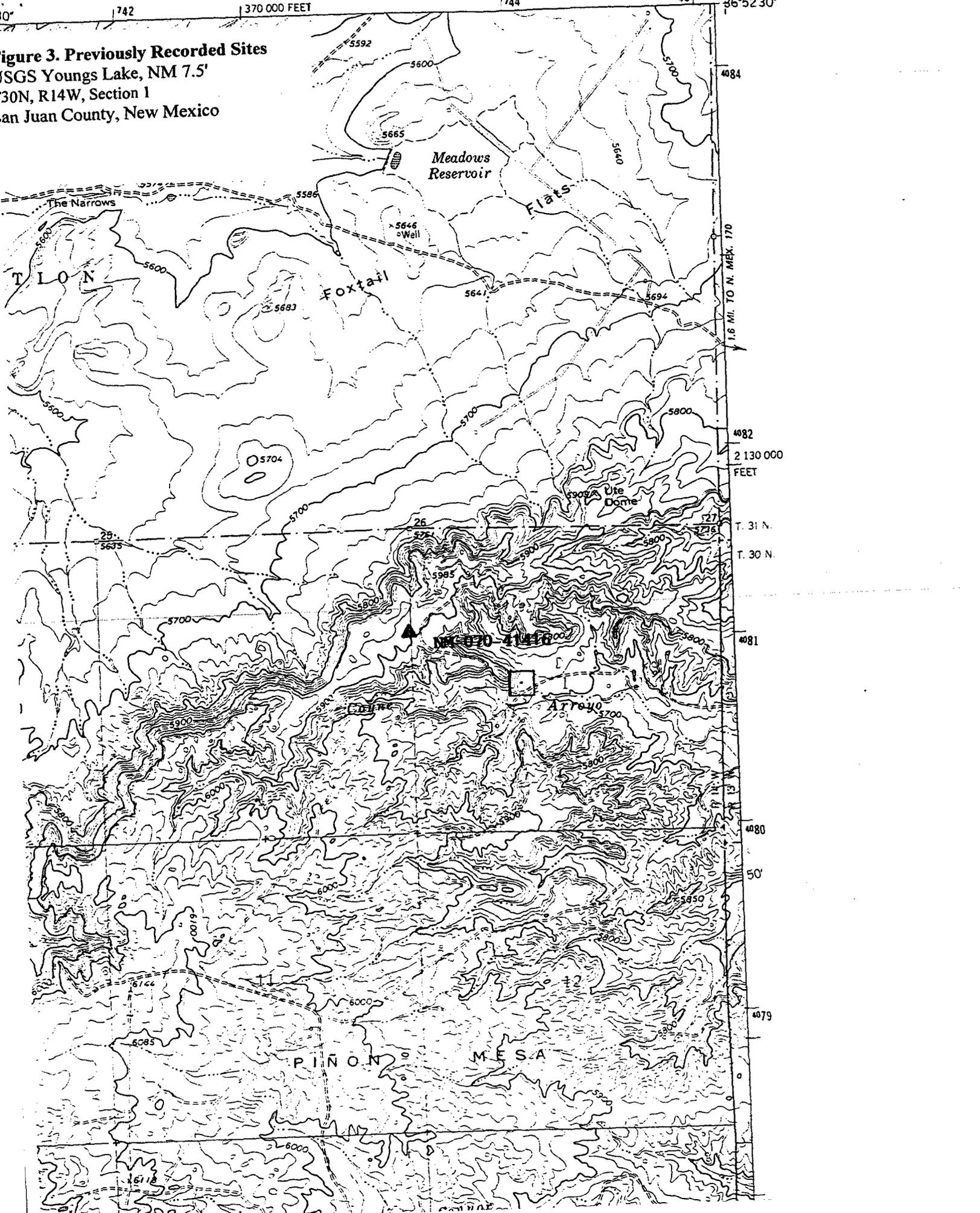


Figure 3. Previously Recorded Sites
 USGS Youngs Lake, NM 7.5'
 T. 30N, R14W, Section 1
 San Juan County, New Mexico

1.6 MI. TO N. MEX. 170

4082
 2 130 000
 FEET

T. 31 N.
 T. 30 N.

4081

4080

50'

4079

P I Ñ O N M E S A

MC 070-41416

Meadows Reservoir

Flats

Foxtail

The Narrows

Ute Dome

Arroyo

Cofre

T L O N

25
 5635

26
 5725

27
 5725

5144

6085

5612

5985

5700

5800

5900

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6400

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6600

6700

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5600

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 Well

5683

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5000

4900

4800

4700

742

370 000 FEET

744

745 108°15'

36°52'30"

Schlumberger

EL 7 R 10

06

COUNTY **SAN JUAN**
 FIELD **BASIN DAKOTA**
 LOCATION **SEC. 1 30N 14W**
 WELL **LITTLE FEDERAL NO. 2**
 COMPANY **ODESSA NATURAL CORP**

COMPANY **ODESSA NATURAL CORP.**
 WELL **LITTLE FEDERAL NO. 2**
 FIELD **BASIN DAKOTA**
 COUNTY **SAN JUAN STATE NEW MEXICO**

LOCATION
 1090' ENL
 1850' ENL
 30.015-22.299
 FDC/CNL ER

Other Services
 FDC/CNL ER

Permanant Datum: **GL** Elev.: **5877**
 Log Measured From: **KB** 12 Ft. Above Perm. Datum
 Drilling Measured From: **KB**

Elev.: **5889**
 D.F.: **5877**
 G.L.: **5877**

Date	Run No.	Depth-Driller	Depth-Logger (Schl.)	Rise Log Interval	Top Log Interval	Casing-Driller	Casing-Logger	Bit Size	Type Fluid in Hole	Dens. Visc.	pH	Fluid Loss	Source of Sample	Rm @ Meas. Temp.	Rm @ Meas. Temp.	Rm @ Meas. Temp.	Source: Rm/ Rmc	Rm @ BHT	Circulation Stopped	Logger on Bottom	Max. Rec. Temp.	Equip. Location	Recorded By	Checked By
1-27-77	ONE	6550	6544	6538	307	8-5/8" 317	307	7-7/8	FGM	9.1	63	10	FIELD PIT	2.6 @ 69	2.42 @ 69	---	---	1.2 @ 152F	0930	1540	152	5816 EARN	WILGREN AND CHRISTENSEN	WALSH

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

Run No.	Service Order No.	Fluid Level	SCALE CHANGES			
			Type Log	Depth	Scale Up Hole	Scale Down Hole
ONE	28006	FULL				

EQUIPMENT DATA	
Panel	DC 345
Mem. Panel	ILPA 234
TTR	---
DPI	B 621
Cartridge	B 286
Sonde	DB 234
Cent. Device	YES
Stand Off - Inches	1-1/2
G. R. Panel	---
G. R. Cartridge	---

REMARKS:

CALIBRATION DATA	
S.B.R.	2.0
SONDE ERROR	SURFACE
Corrected For	Hole Size
	Rm
Speed - F.P.M.	60
GR	BKG. CPS
	Source CPS
	Tc Sec

COPY

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 Clause 4 of our General Terms and Conditions as set out in our current Price Schedule.

- $\frac{10}{MVO}$ + MILLVOLTS

DEPTH

INDUCTION CONDUCTIVITY

OHMS. M²/M

400 200 0

RESISTIVITY OHMS. M²/M

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0 10

AVERAGED LATEROLOG-8

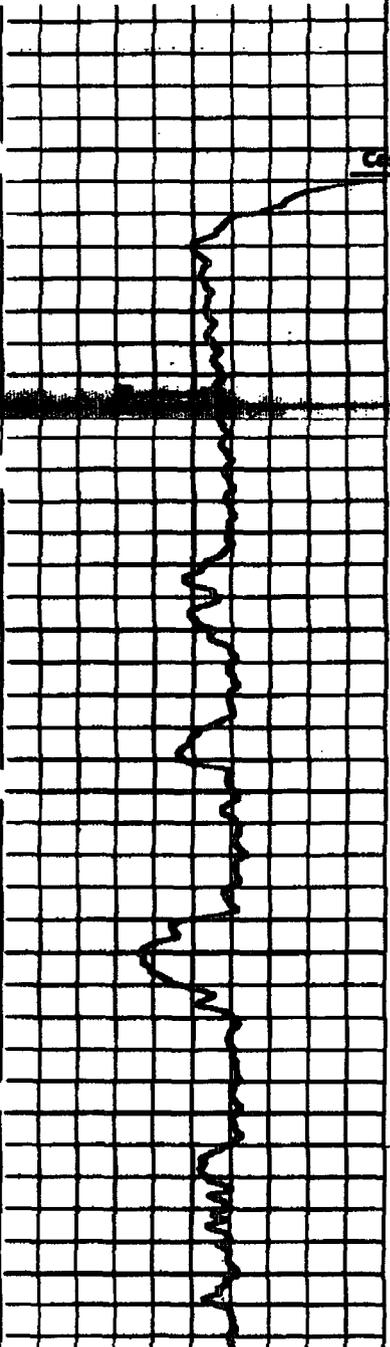
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0 1000

DEEP INDUCTION

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0 1000

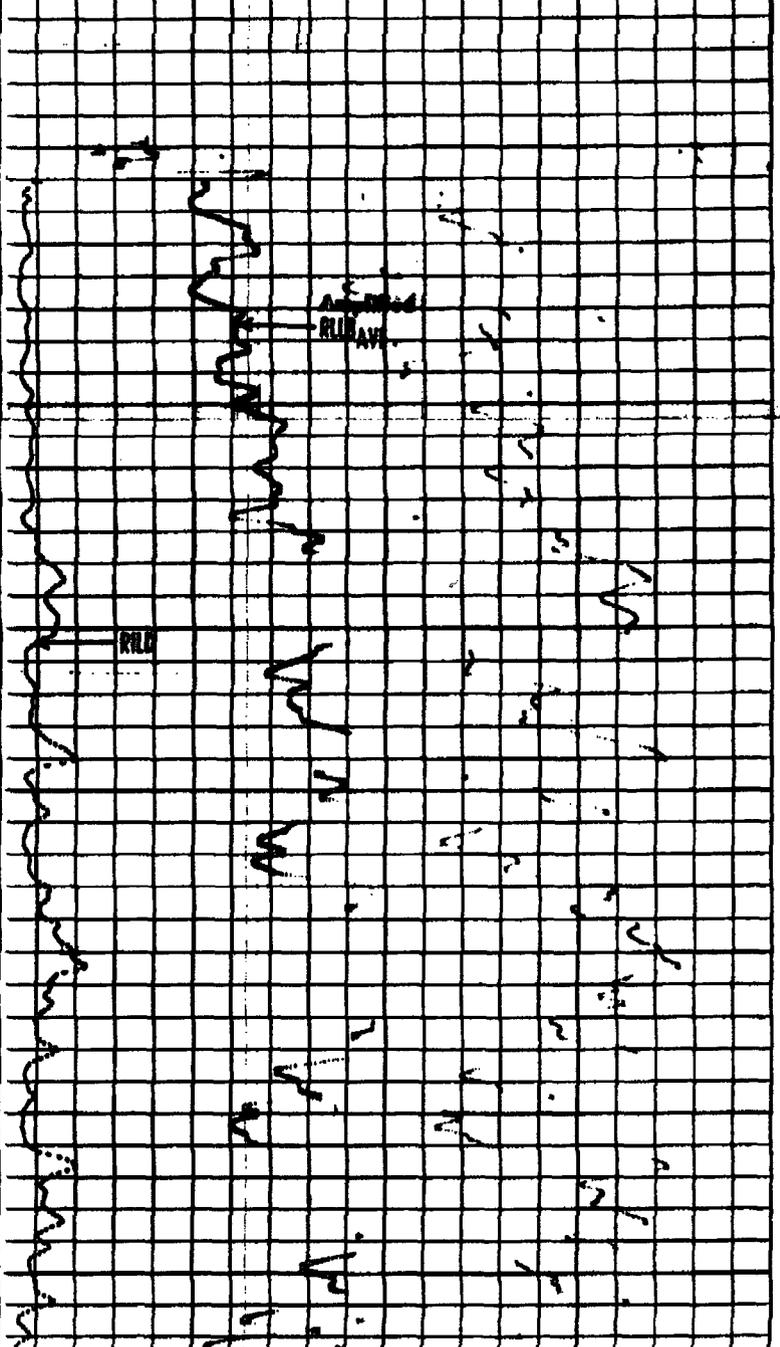


Costing 0080

0080

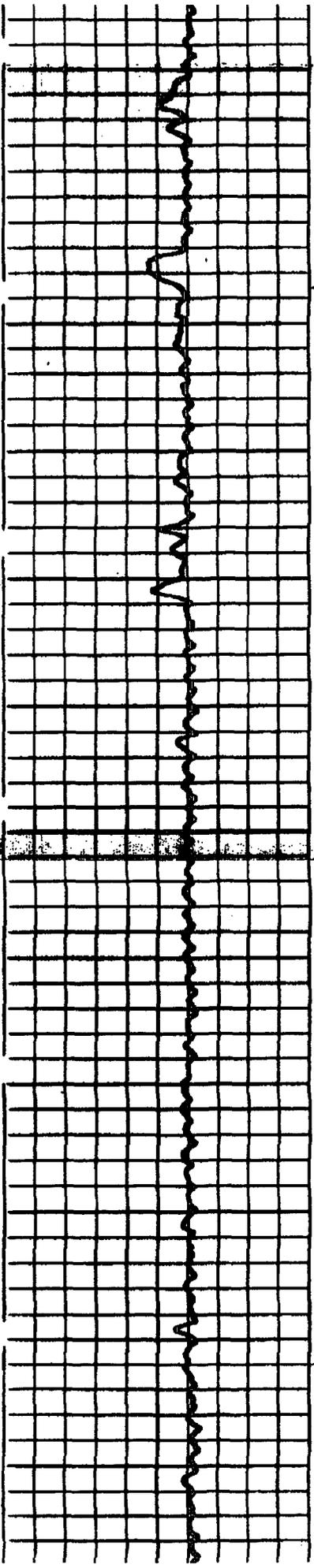
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AVERAGED
LATEROLOG-3

AVERAGED
LATEROLOG-8



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Heat

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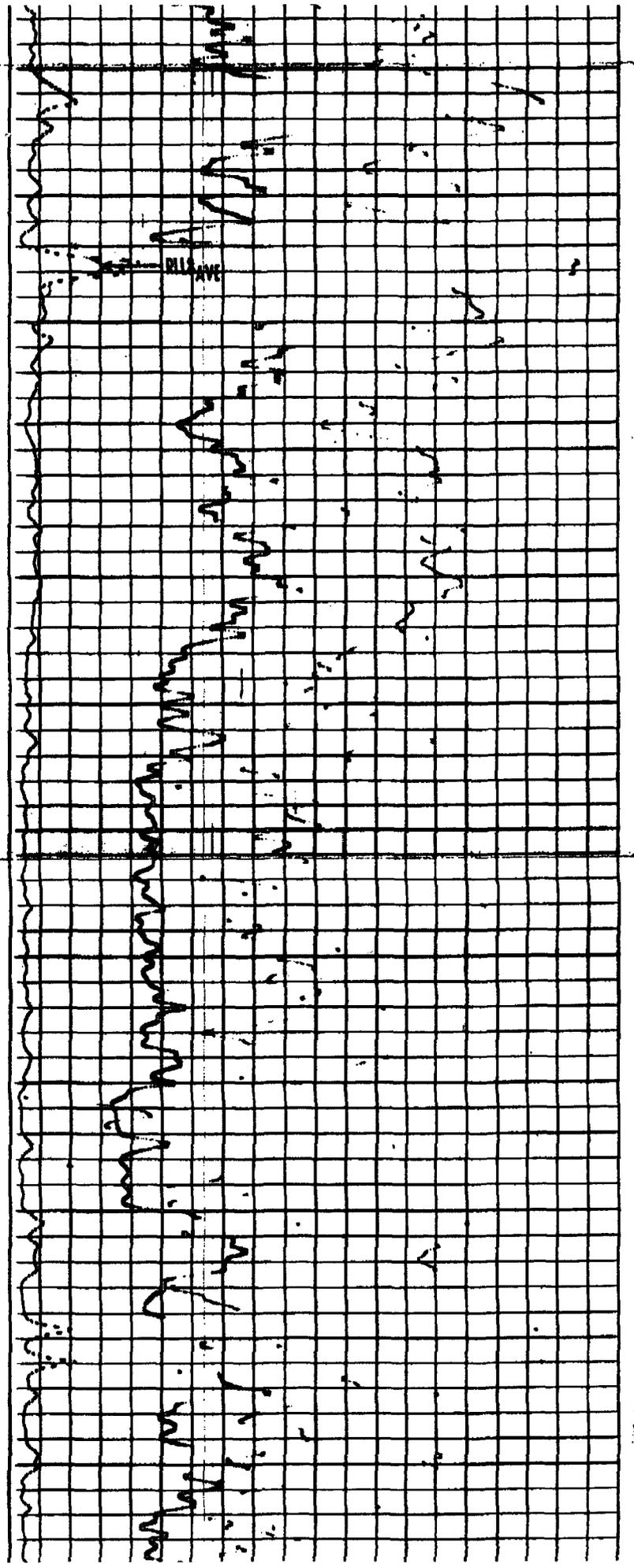
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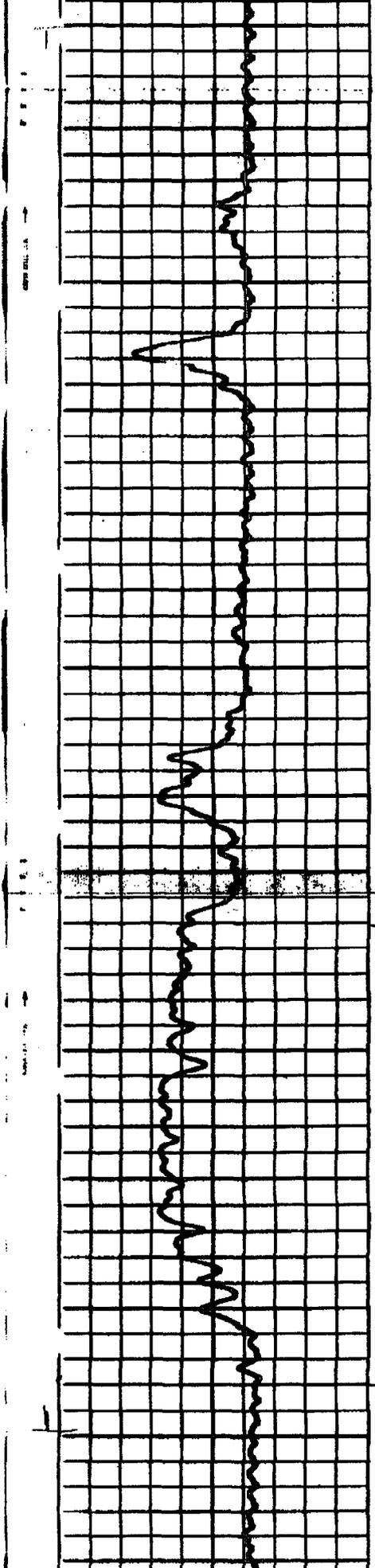
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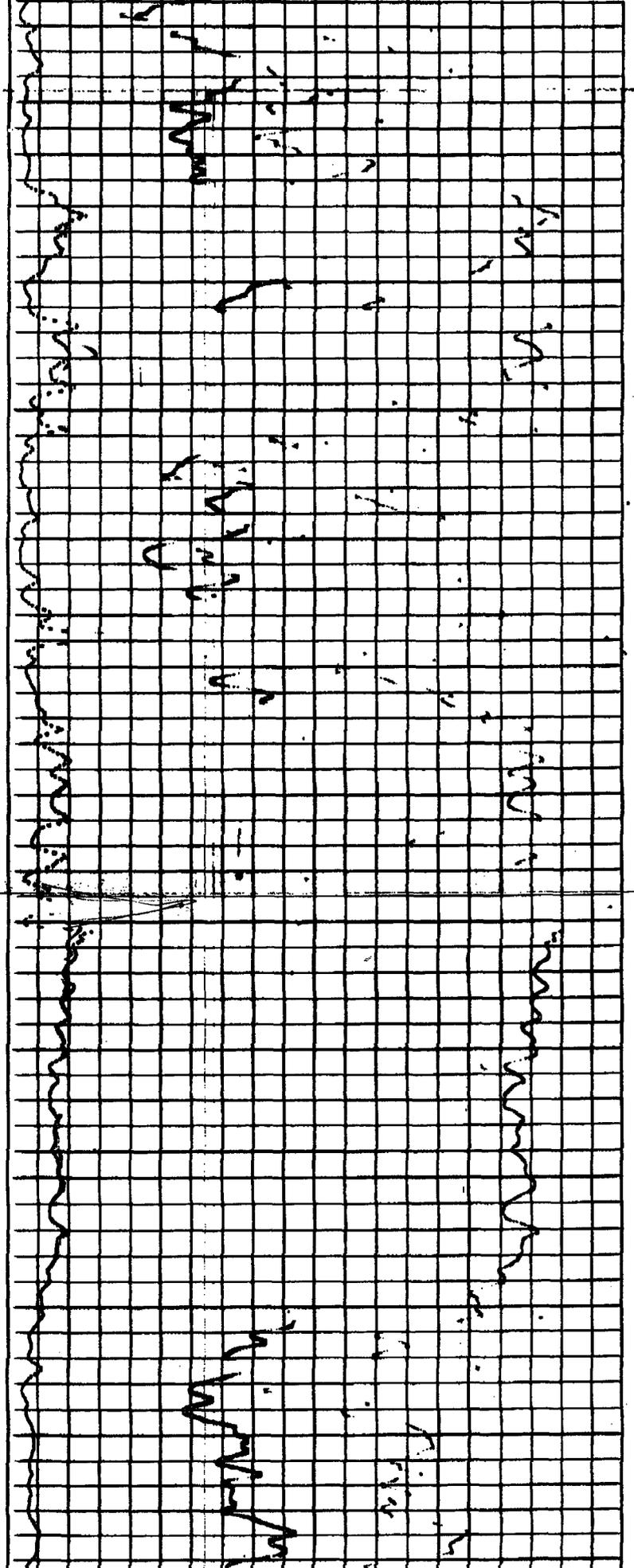
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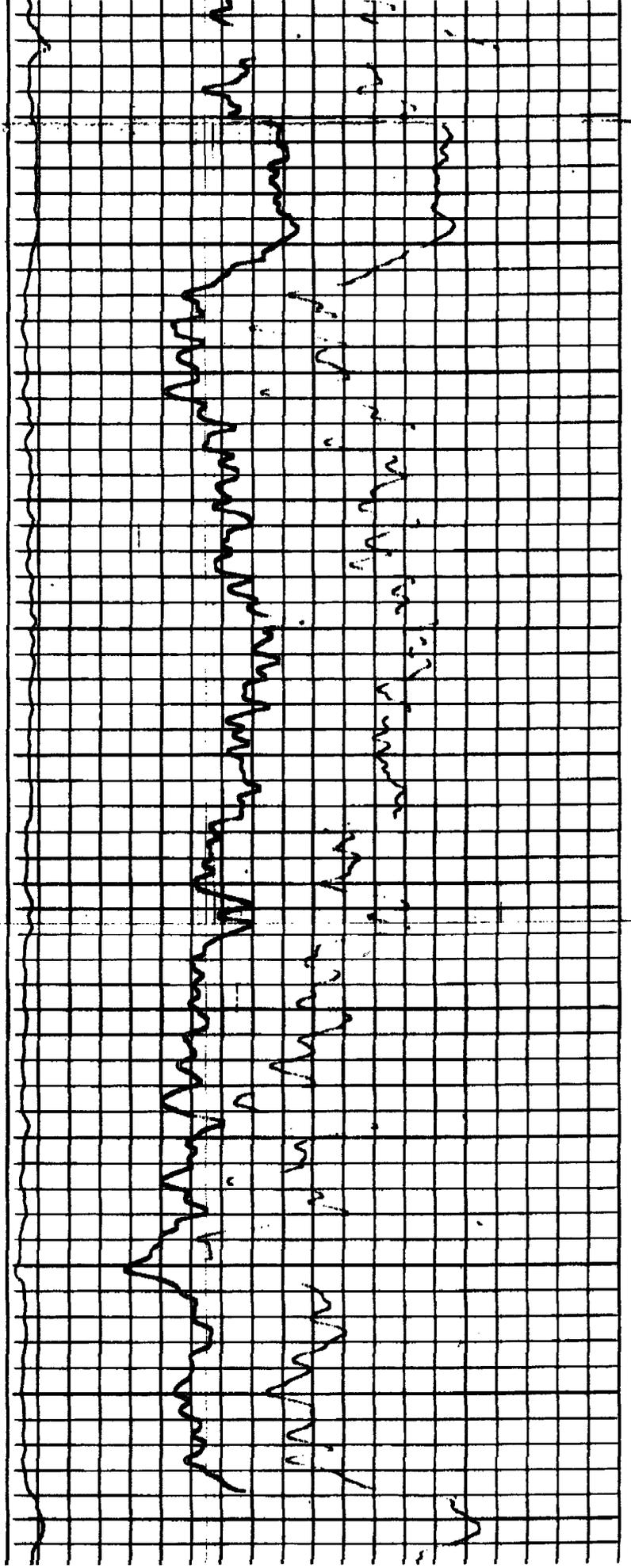
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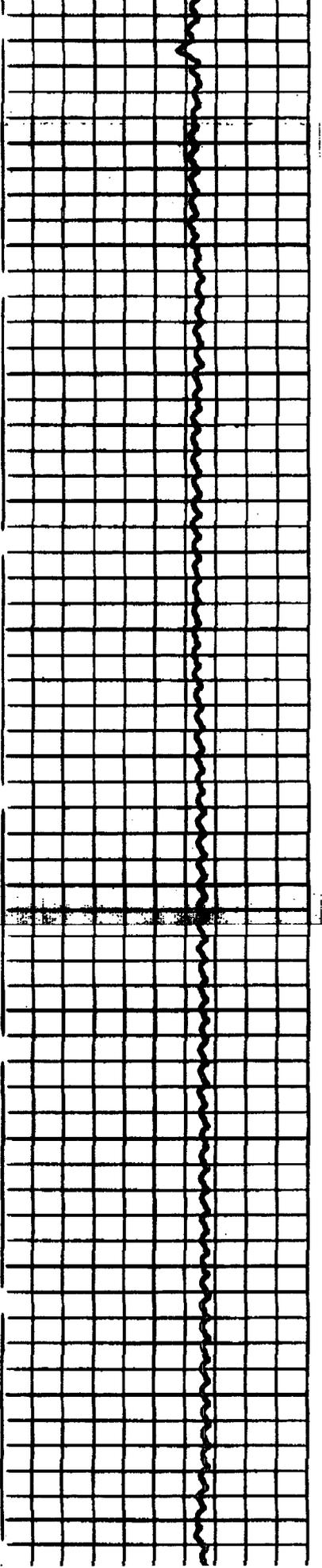
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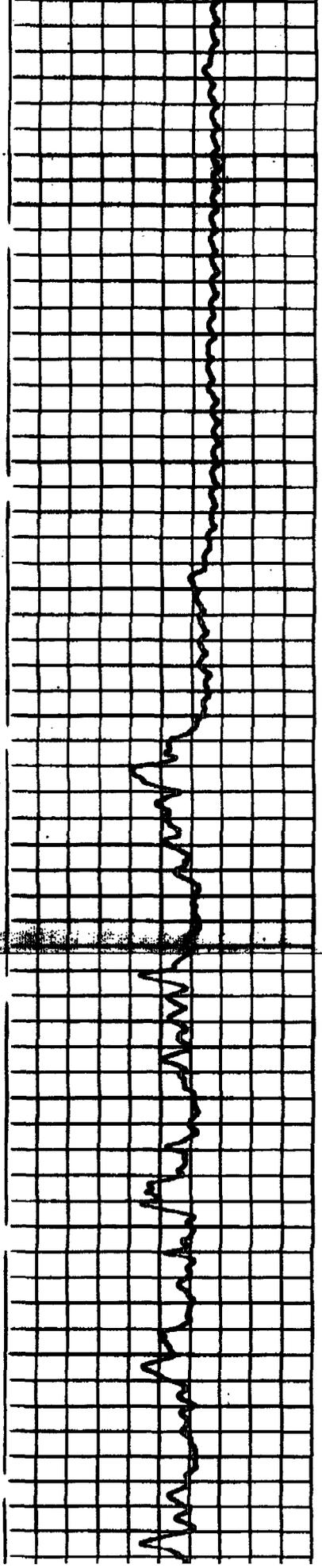


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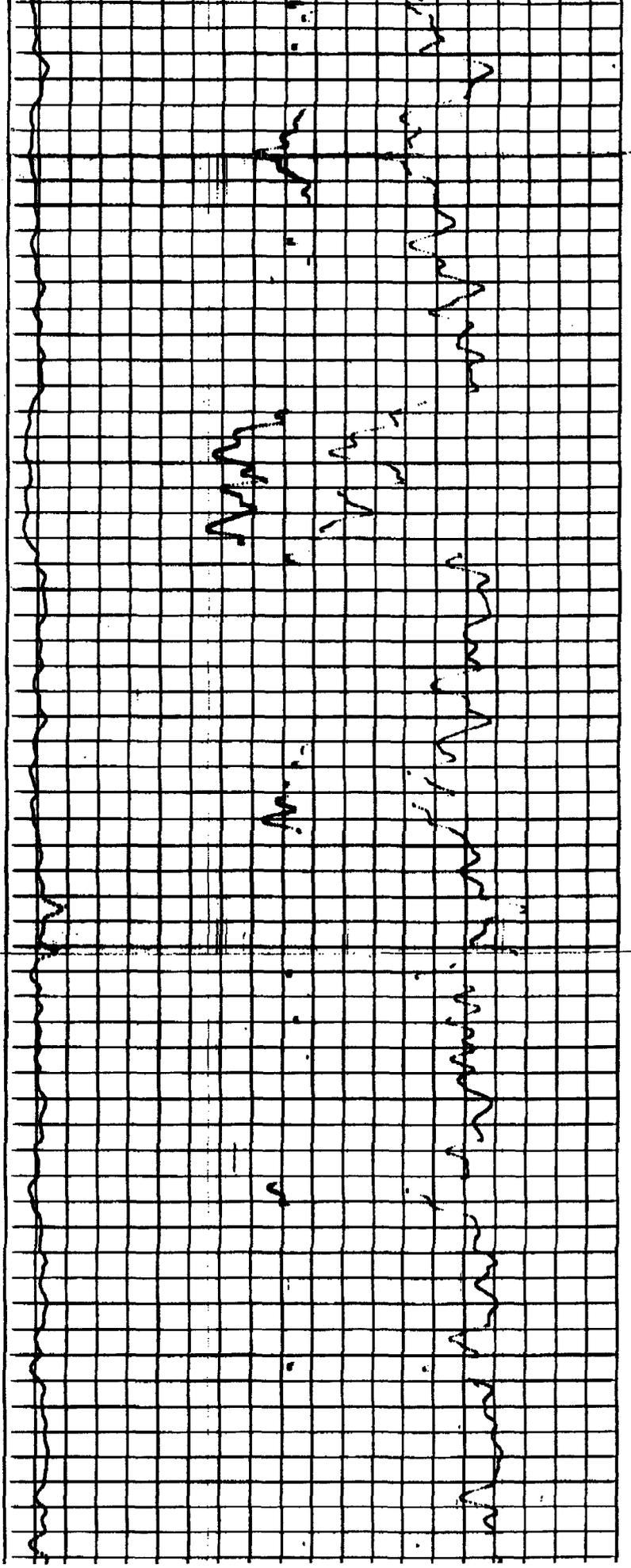


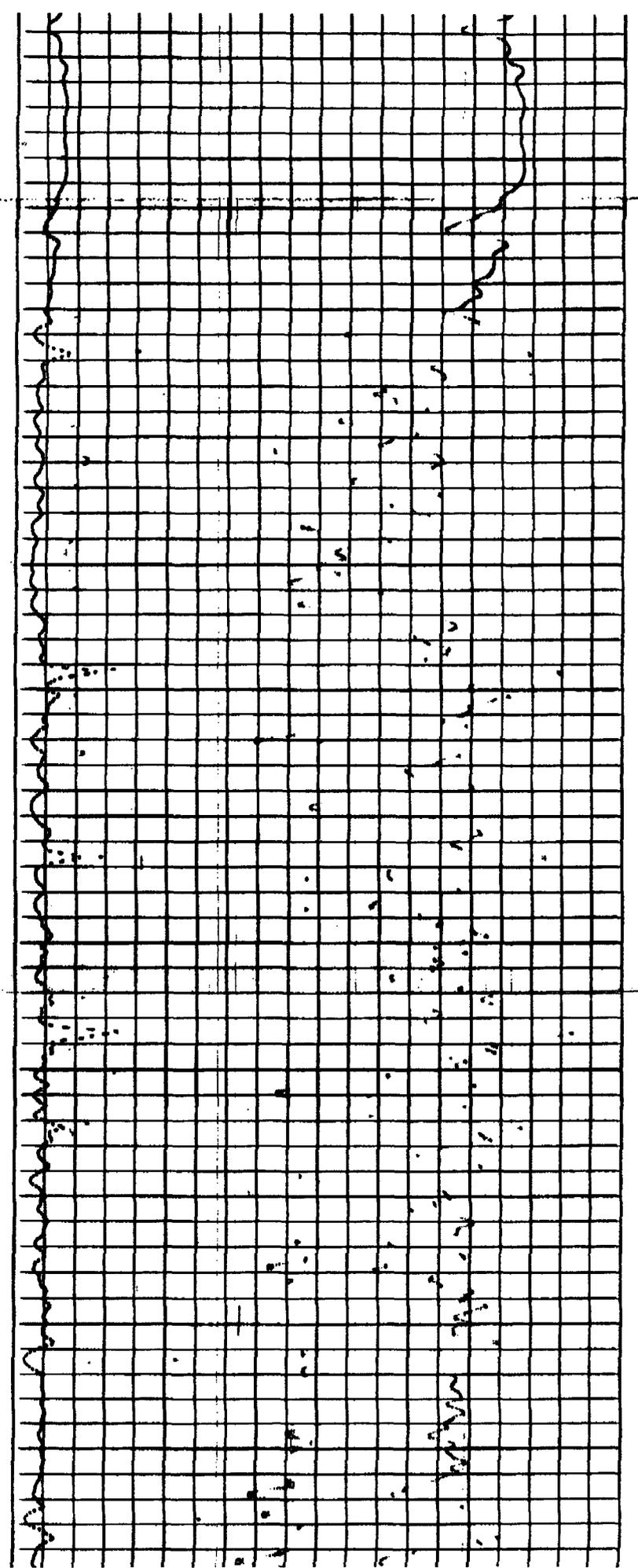
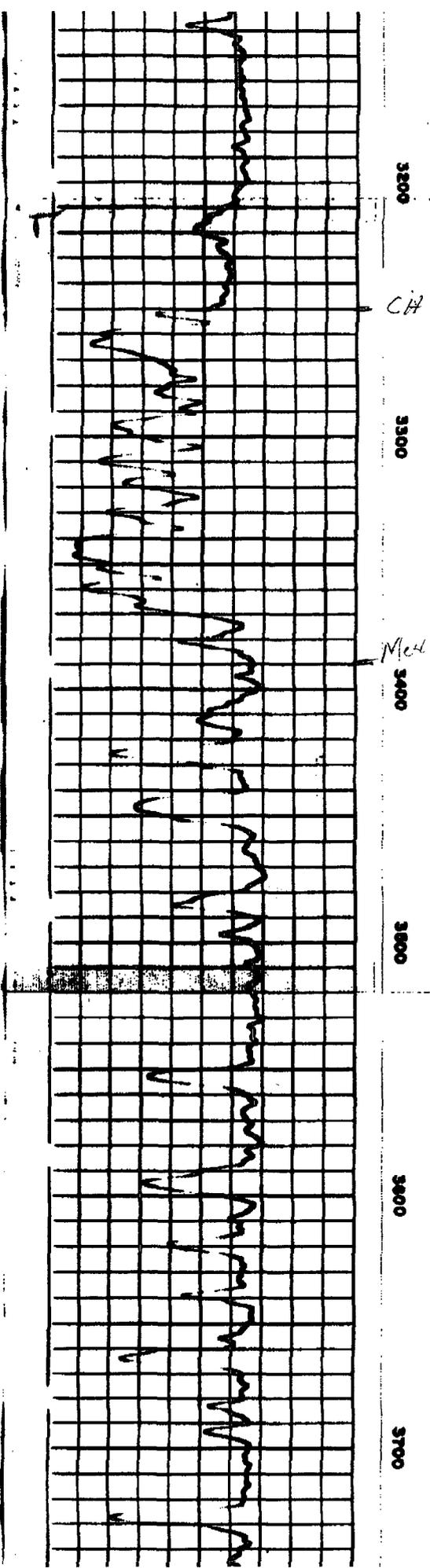
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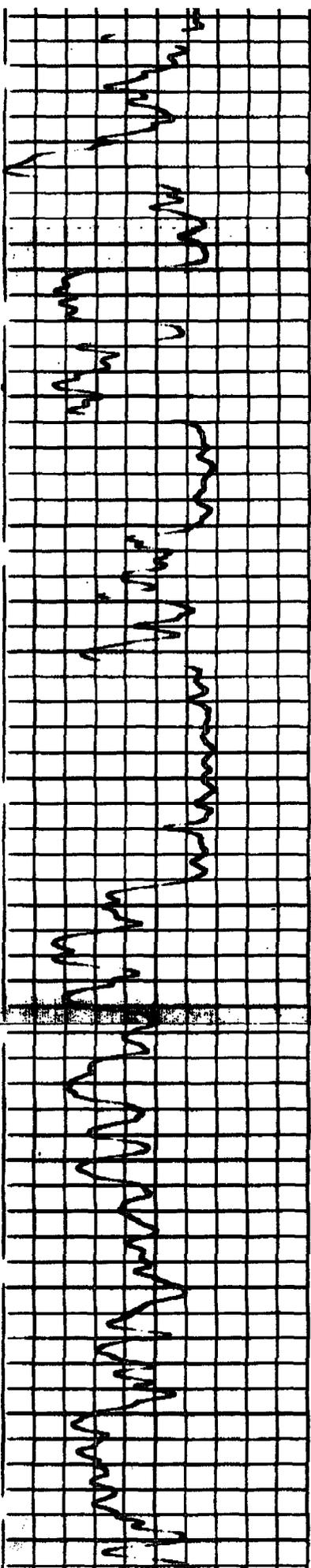




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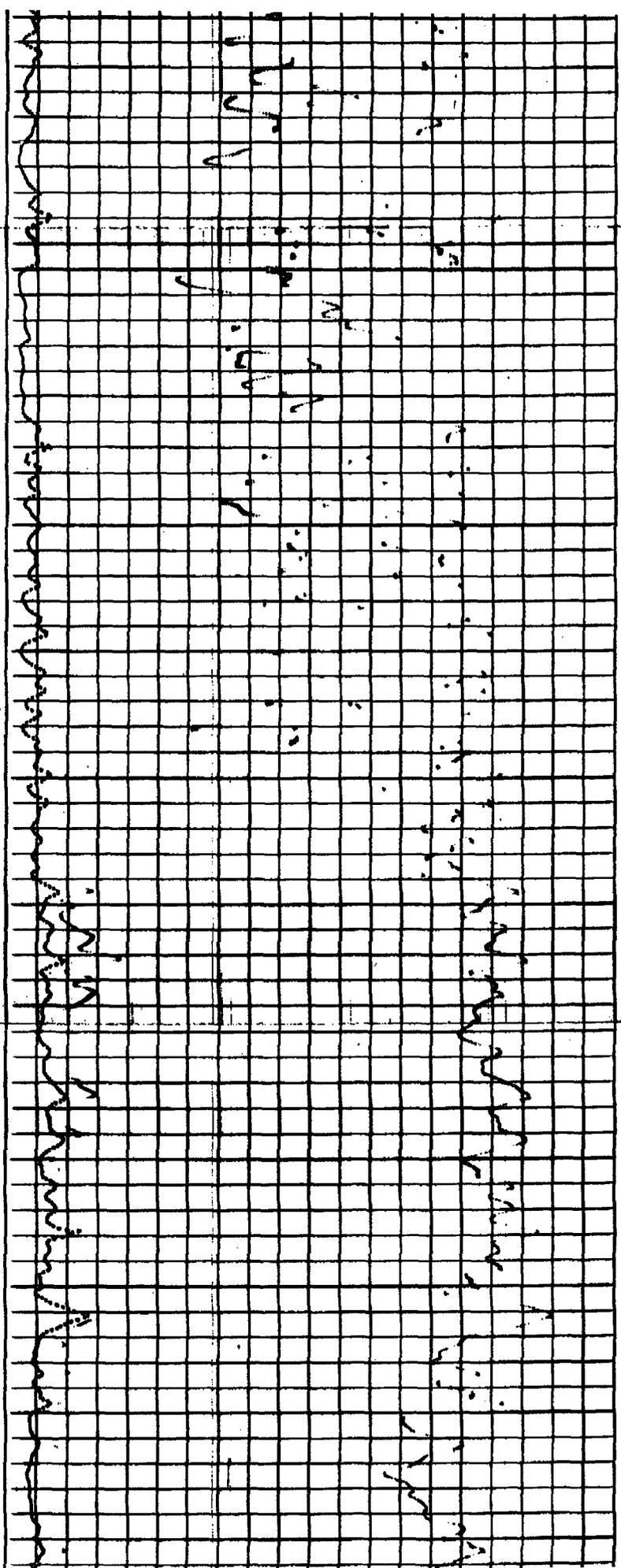
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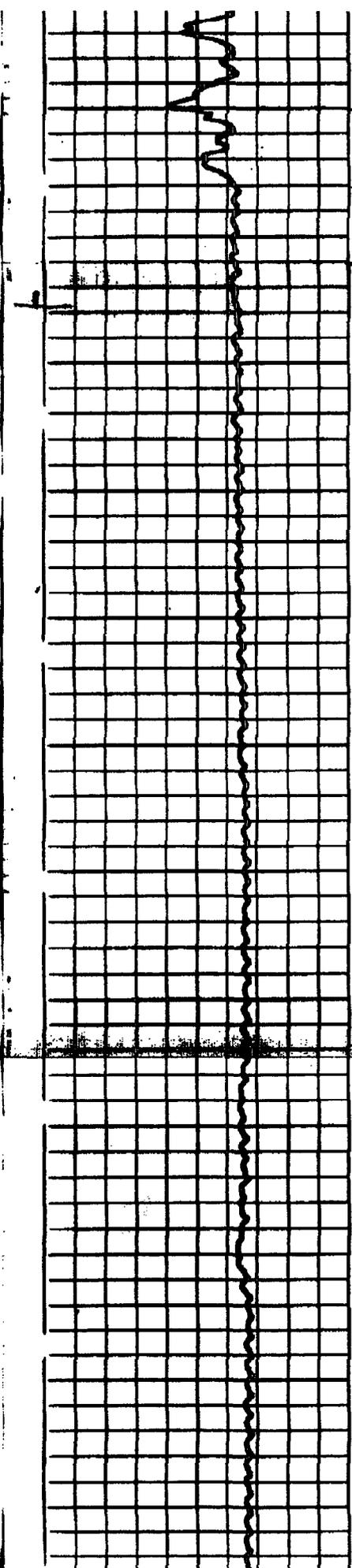
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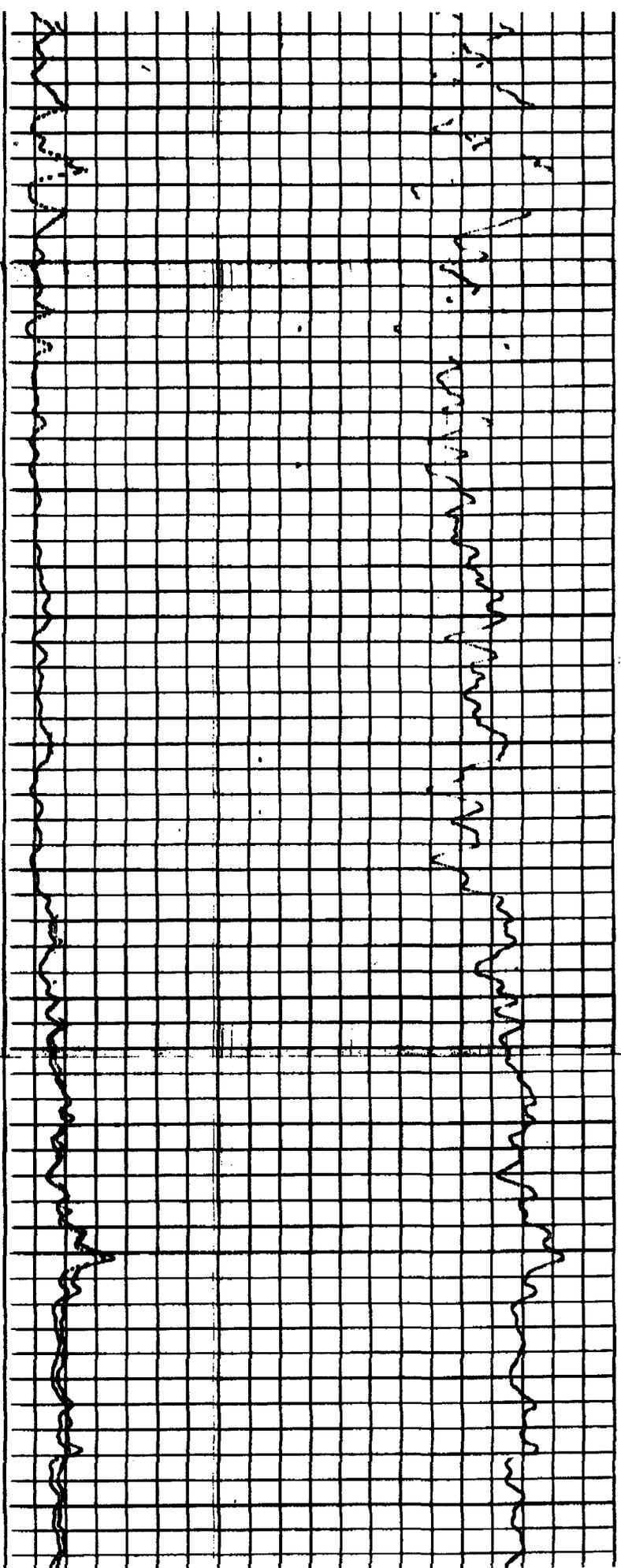
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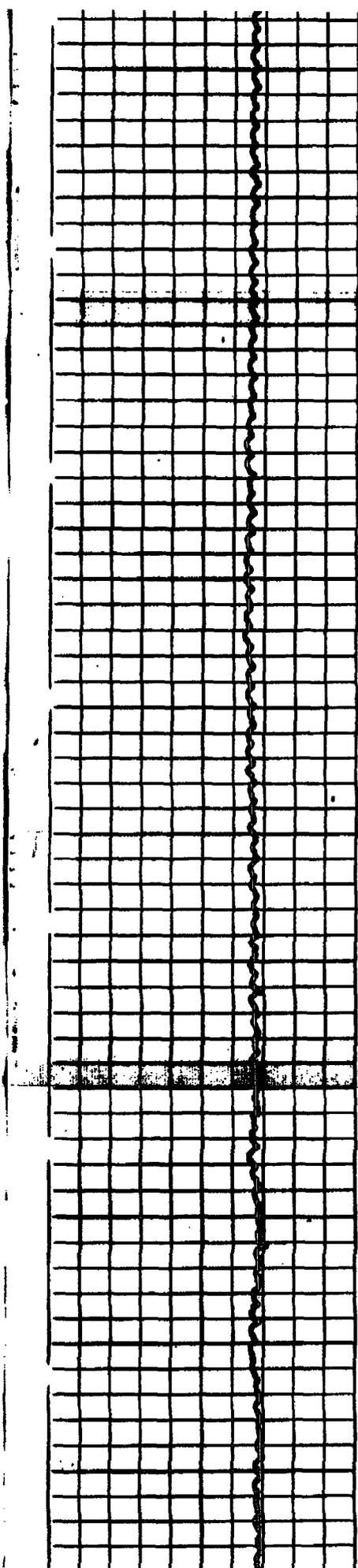
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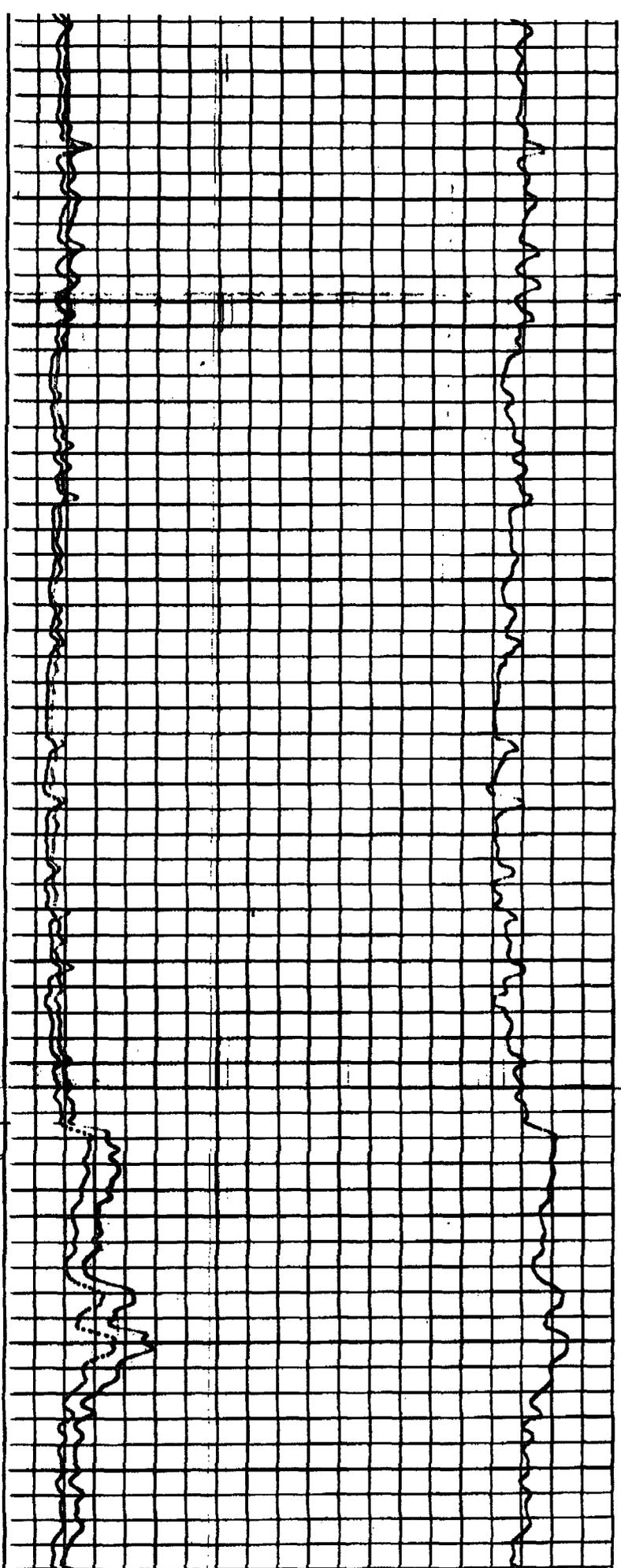
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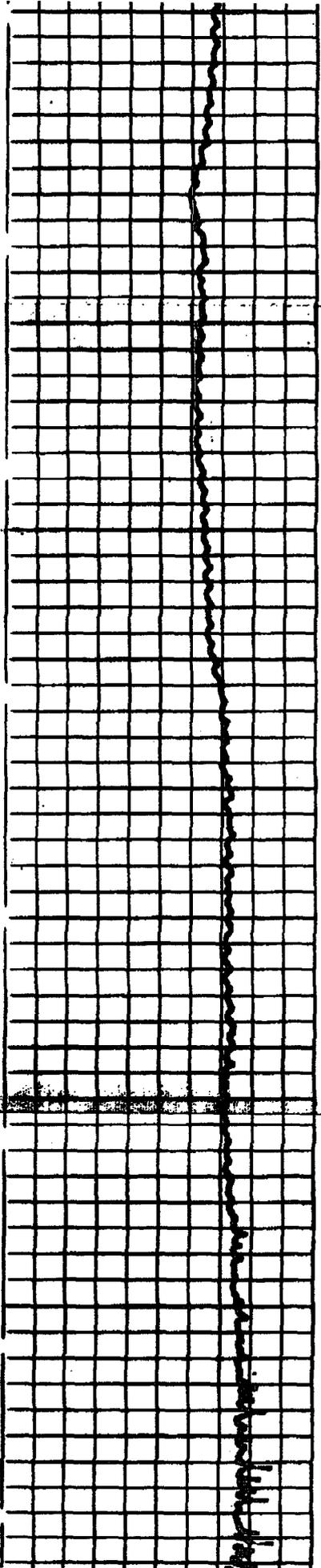




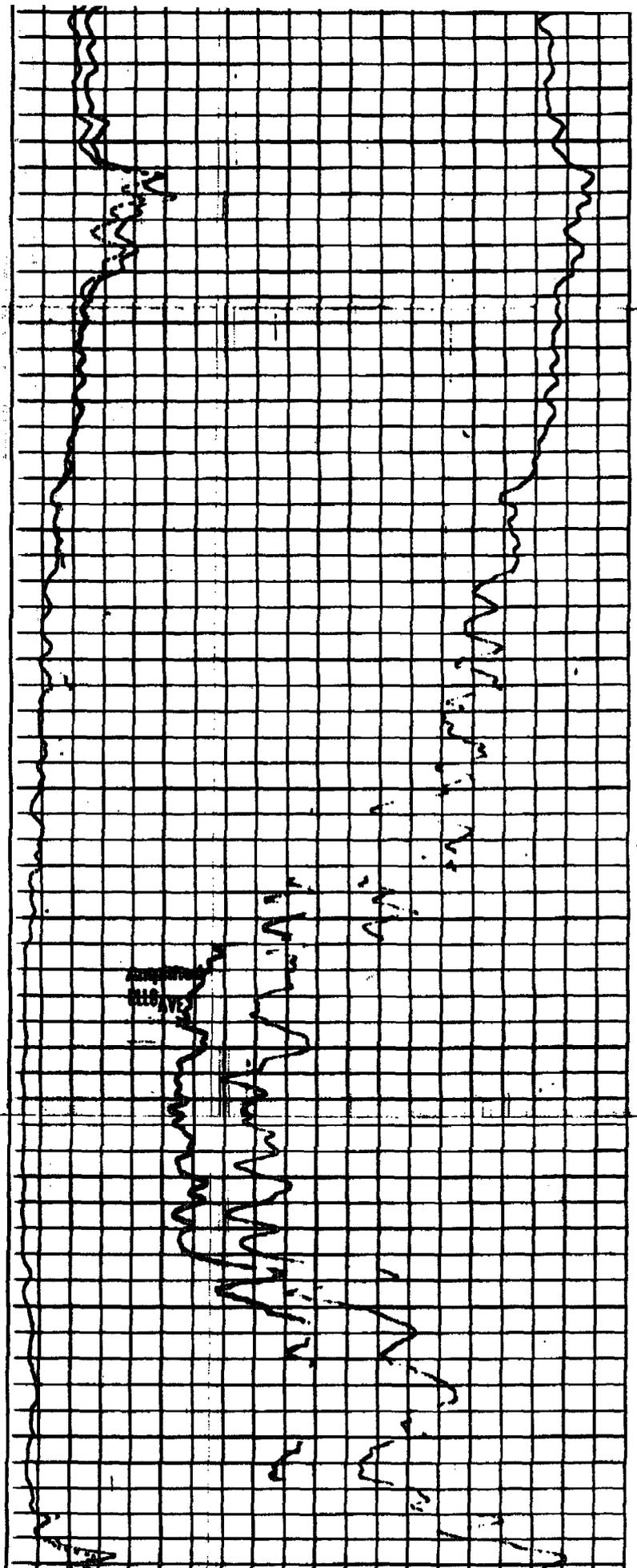
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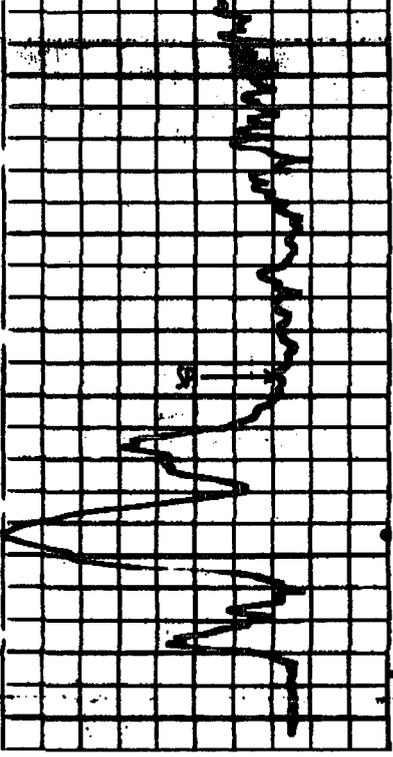
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