



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6178

OIL CONSERVATION DIVISION  
BOX 2088  
SANTA FE, NEW MEXICO 87501

DATE Jan 21 1982

RE: Proposed MC \_\_\_\_\_  
Proposed DHC \_\_\_\_\_  
Proposed NSL \_\_\_\_\_  
Proposed SWD \_\_\_\_\_  
Proposed WFX \_\_\_\_\_  
Proposed PMX \_\_\_\_\_

OK JAE  
B-20-92

Gentlemen:

I have examined the application dated Jan 15 1982  
for the Petro Lewis Corp Medio Entada Unit #4 K-14-19N-3W  
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approve  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Yours truly,

Jill A. Edmister  
JAE

APPLICATION FOR AUTHORIZATION TO INJECT



- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal  
Application qualifies for administrative approval? ☐ yes ☐ no
- II. Operator: Petro-Lewis Corporation  
Address: P.O. Box 937 Levelland, TX 79336  
Contact party: James F. Sieck Phone: 806-894-8589
- 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 ☒ no  
If yes, give the Division order number authorizing the project \_\_\_\_\_.
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- \* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
  5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- \*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- \* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
- \* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification

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

Name: James F. Sieck Title: District Engineer

Signature: James F. Sieck Date: 1/13/82

- \* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance 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 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:

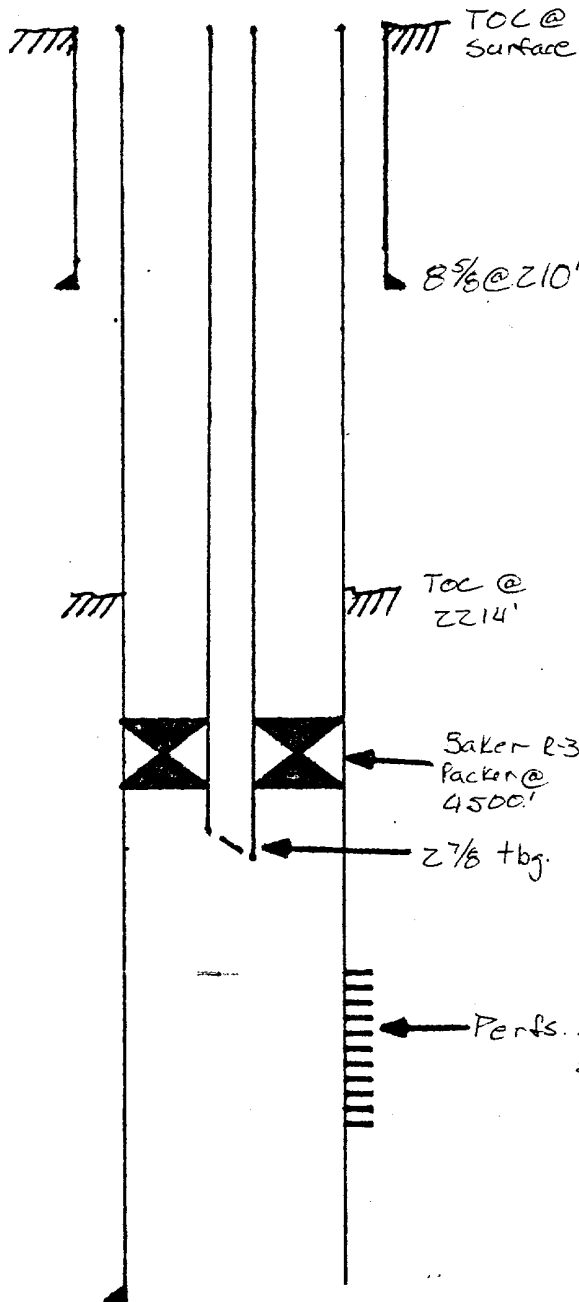
- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

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

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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.

OPERATOR	LEASE			
4	1650' FWL, 1980' FSL	14	19-N	3-W
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

SchematicTabular DataSurface CasingSize 8 5/8 " Cemented with 140 sx.TOC Surface feet determined by circulated

Hole size \_\_\_\_\_

Intermediate Casing

Size \_\_\_\_\_ " Cemented with \_\_\_\_\_ sx.

TOC \_\_\_\_\_ feet determined by \_\_\_\_\_

Hole size \_\_\_\_\_

Long stringSize 5 1/2 " Cemented with 548 sx.TOC 2214 feet determined by calculationHole size 7 7/8"Total depth 5346'Injection interval5214 feet to 5298 feet  
(perforated or open-hole, indicate which)

**PETRO LEWIS CORPORATION**

Oil and Gas Producers

P.O. Box 937  
Sundown Highway  
Farm to Market Road 300  
Levelland, Texas 79336  
806/894-8589

TO

**OFFSET OPERATORS**

Gentlemen:

Petro-Lewis Corporation wishes to convert its Media Entrada Unit well #4 to a salt water disposal well. The well is located in Section 14, T-19-N, R-3-W, Sandoval County, New Mexico. Produced water will be disposed of through tubing and under a packer into the Entrada formation from 5298' to 5214'. This well has never been productive of oil or gas in economically feasible quantities.

If you have no objection to this disposal request, please sign the waiver below and return in the enclosed envelope. You may retain one copy for your files. If I can supply you with any additional information please let me know.

Sincerely,

*James F. Sieck*

James F. Sieck  
Sr. Operations Engineer

**WAIVER**

We have been notified of Petro-Lewis Corporation's request for salt water disposal in the well identified above. We are aware of the facts and hereby waive any objection to approval of this request.

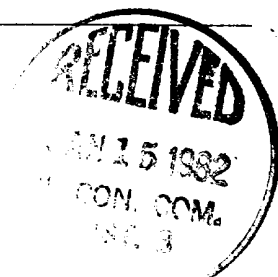
Signed: \_\_\_\_\_

Company: \_\_\_\_\_

Date: \_\_\_\_\_

*William S. Marshall*  
By \_\_\_\_\_  
William S. Marshall, President

12/2/81



## NEW MEXICO OIL CONSERVATION COMMISSION

## APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR <b>Petro-Lewis Corporation</b>		ADDRESS <b>P.O. Box 937 Levelland, TX 79336</b>	
WELL NAME <b>Media Entrada Unit</b>	WELL NO. <b>4</b>	FIELD <b>Media Entrada</b>	COUNTY <b>Sandoval</b>

LOCATION  
UNIT LETTER **K** ; WELL IS LOCATED **1650** FEET FROM THE **West** LINE AND **1980** FEET FROM THE

LINE, SECTION **14** TOWNSHIP **19-N** RANGE **3-W** N.M.P.M.

## CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	8 5/8	210	140	Surface	Calculation
INTERMEDIATE					
END STRING	5 1/2	5346	548	2214	Calculation
SETTING	2 7/8	4500	NAME, MODEL AND DEPTH OF TUBING PACKER <b>Baker R-3 @ 4500'</b>		

NAME OF PROPOSED INJECTION FORMATION <b>Entrada</b>	TOP OF FORMATION <b>5210</b>	BOTTOM OF FORMATION <b>Unknown</b>
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INJECTION THROUGH TUBING, CASING, OR ANNULUS?	PERFORATIONS OR OPEN HOLES?	PROPOSED INTERVALS OF INJECTION
<b>Tubing</b>	<b>Perforations</b>	<b>5214-5298'</b>

IS THIS A NEW WELL DRILLED FOR SPECIAL?	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED?	HAS WELL EVER BEEN PERFORATED, LAMINATED, OR STIMULATED WITH ANY FLUID OTHER THAN THE PROPOSED INJECTION FLUID?
<b>No</b>	<b>Oil Production</b>	<b>No</b>

IF ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SECURE EACH

DEPTH OF BOTTOM OF DEEPEST SEEN WATER ZONE IN THIS AREA <b>Unknown</b>	DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA <b>Unknown</b>	DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA <b>Unknown</b>
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IS CHARGED GAS IN MINIMUM SECTION, VOLUME PSI?	MAXIMUM	OPEN OR CLOSED TYPE SYSTEM	IS INJECTION TO BE BY GRAVITY OR PRESSURE?
<b>3000</b>	<b>5000</b>	<b>Closed</b>	<b>Pressure</b>

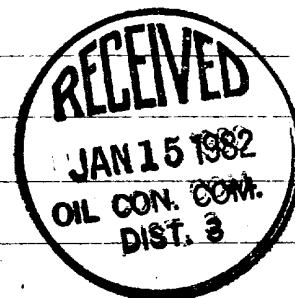
WATER USE OR NO: WHETHER THE FOLLOWING WATERS ARE MIN- FACIATED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, INDUSTRIAL, IRRIGATION, OR OTHER GENERAL USE	WATER TO BE DISPOSED OF	NATURAL WATER IN DEPTH SAL DOME	ARE WATER ANALYSES ATTACHED?
<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>No</b>

NAME AND ADDRESS OF SURFACE OWNER, OF LESSEE, IF STATE OR FEDERAL LAND

N/A

BY NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL

**Marshall and Winston, Inc. Box 874 Midland, Texas**



DOES EACH OF THE FOLLOWING OWNERS HAVE A COPY OF THIS APPLICATION?	SURFACE OWNER	EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL
<b>NO</b>	<b>NO</b>	<b>YES</b>
IF THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION, SEE FULL TITLE	FLAT OF AREA	ELECTRICAL LOG
<b>YES</b>	<b>YES</b>	<b>YES</b>

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

**James F. Sick** **Sr. Operations Engr.** **12-1-81**  
(Signature) (Title) (Date)

NOTE: Should owners from the surface owner and all operators within one-half mile of the proposed injection well not accompany this application to the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office. At the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 201.