ENERGY AND MINERALS DEPARTMENT

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

RECEIVED
JUL 23 1990
OIL CONSERVATION DIV.
SANTA FE

Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: [x] Secondary Recovery [ ] Pressure Maintenance [ ] Disposal [ ] Storage
Application qualifies for administrative approval? [ ] yes [x] no

II. Operator: Chevron U.S.A. Inc.

Address: P.O. Box 670 Hobbs, New Mexico 88240

Contact party: J. D. Dolan Phone: 505-393-4121

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? [x] yes [ ] no
If yes, give the Division order number authorizing the project R-7766.

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: Jimmy D. Dolan Title Reservoir Engineer

Signature: J D Dolan Date: 7-9-90

* 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.

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office.

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this applic[illegible] 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.

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.

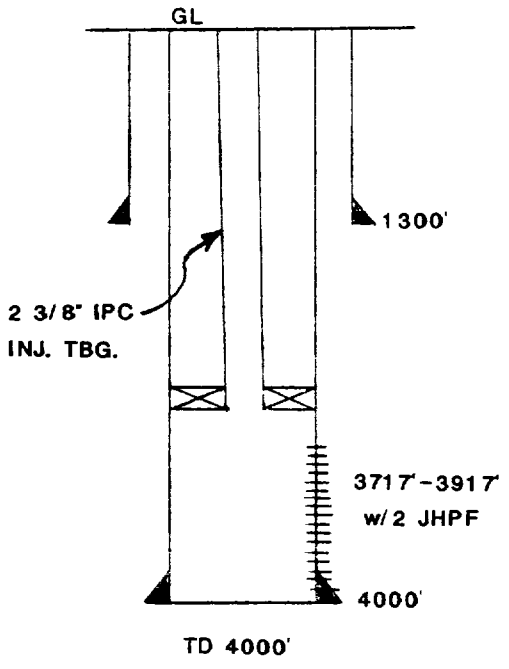
III. Typical Injection Well Schematics

INJECTION WELL DATA SHEET

Chevron U.S.A. Inc. — OPERATOR
Eunice Monument South Unit Expansion Area B — LEASE

WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
Proposed New Injection Well				

SCHEMATICS



TUBULAR DATA

Surface Casing

Size 8-5/8 " Cemented with 800 sx
TOC Surf feet determined by Circ.
Hole size 12-1/4

Long String

Size 5-1/2 " Cemented with 800 sx
TOC Surf feet determined by Circ.
Hole Size 7-7/8"
Total Depth 4000'

Injection interval
3717 feet to 3917 feet
(perforated)

Tubing size 2-3/8" lined with IPC (Material) set in a Nickel Plated Baker Model AD-1 Tension (Brand and Model) packer at 3617 feet (or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Grayburg

2. Name of Field or Pool (if applicable) Eunice Monument

3. Is this a new well drilled for injection? X Yes ____ No
   If no, for what purpose was the well originally drilled? ____

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No

5. Give the depth in and name of any overlying and/or underlying oil or gas zones (pools) in this area. 2600' to top of Eumont for overlying zone.

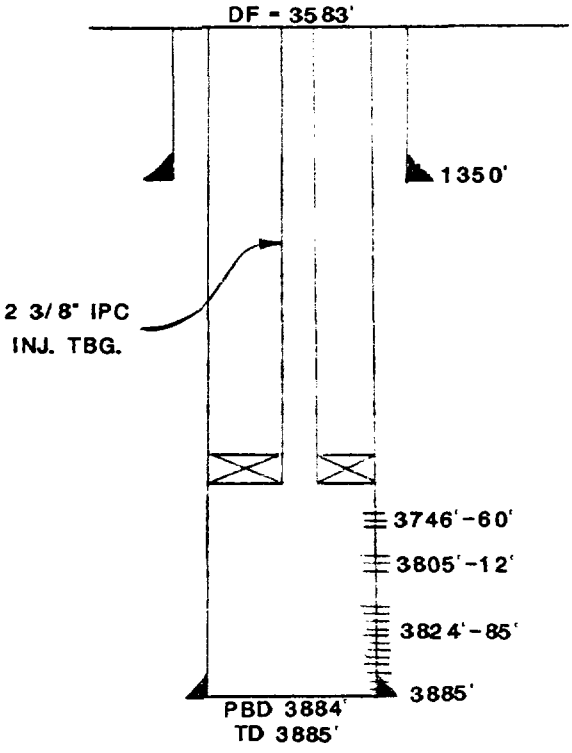
pf/4702/07030/01

INJECTION WELL DATA SHEET

Chevron U.S.A. Inc. — OPERATOR
Eunice Monument South Unit Expansion Area B — LEASE

WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
Two casing strings				

SCHEMATICS



TUBULAR DATA

Surface Casing

Size 8-5/8 " Cemented with 800 sx
TOC Surf feet determined by Circ.
Hole size 11

Long String

Size 5-1/2 " Cemented with 500 sx
TOC 83 feet determined by TS
Hole Size 6-3/4"
Total Depth 3885'

Injection interval
3746 feet to 3885 feet
(perforated)

Tubing size 2-3/8" lined with IPC (Material) set in a Nickel Plated Baker Model AD-1 Tension (Brand and Model) packer at 3646 feet (or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Grayburg

2. Name of Field or Pool (if applicable) Eunice Monument

3. Is this a new well drilled for injection? ____ Yes X No
   If no, for what purpose was the well originally drilled? Oil Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No

5. Give the depth in and name of any overlying and/or underlying oil or gas zones (pools) in this area. 2600' to top of Eumont for overlying zone.

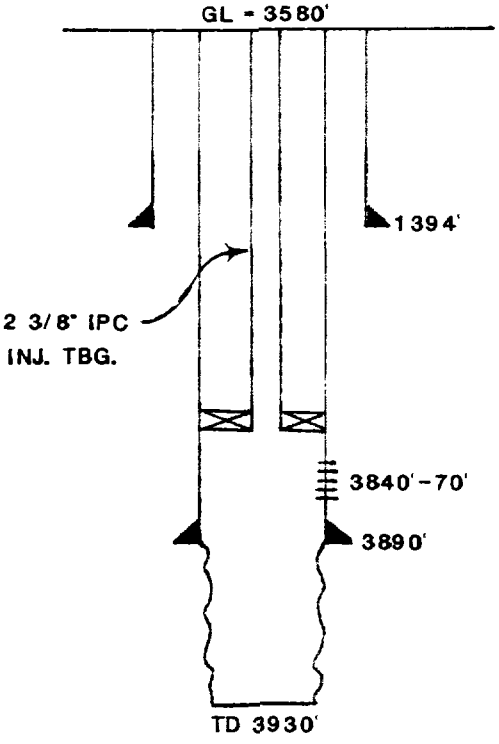
pf/4702/07030/01

INJECTION WELL DATA SHEET

Chevron U.S.A. Inc. — OPERATOR
Eunice Monument South Unit Expansion Area B — LEASE

WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
Two strings casing with open hole and casing perforations.				

SCHEMATICS



TUBULAR DATA

Surface Casing

Size 8-5/8 " Cemented with 800 sx
TOC Surf feet determined by Circ.
Hole size 11"

Long String

Size 5-1/2 " Cemented with 450 sx
TOC 425 feet determined by TS
Hole Size 6-3/4"
Total Depth 3930'

Injection interval
3840 feet to 3930 feet
(perforated and open hole)

Tubing size 2-3/8" lined with IPC (Material) set in a Nickel Plated Baker Model AD-1 Tension (Brand and Model) packer at 3740 feet (or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Grayburg

2. Name of Field or Pool (if applicable) Eunice Monument

3. Is this a new well drilled for injection? ____ Yes X No
   If no, for what purpose was the well originally drilled? Oil Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No

5. Give the depth in and name of any overlying and/or underlying oil or gas zones (pools) in this area. 2600' to top of Eumont for overlying zone.

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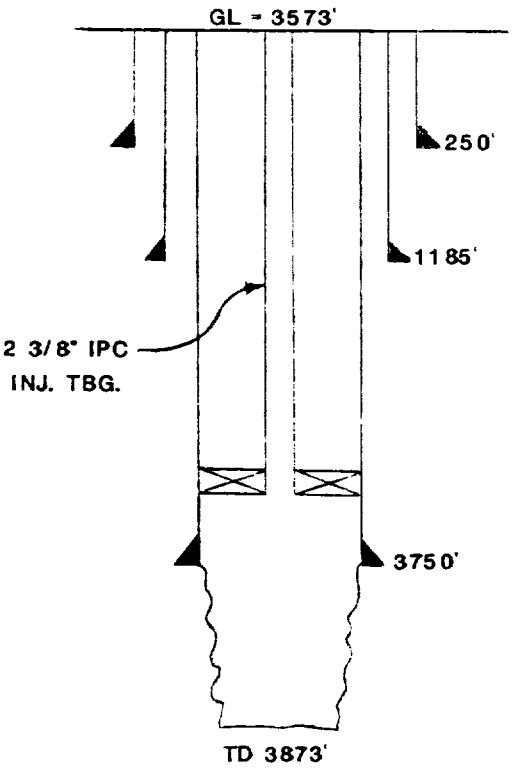
INJECTION WELL DATA SHEET

Chevron U.S.A. Inc. — OPERATOR
Eunice Monument South Unit Expansion Area B — LEASE

WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
Three strings open hole				

SCHEMATICS



TUBULAR DATA

Surface Casing

Size 10-3/4 " Cemented with 225 sx
TOC Surf feet determined by Calc.
Hole size 12-1/4"

Intermediate Casing

Size 7-5/8 " Cemented with 425 sx
TOC Surf feet determined by Calc.
Hole size 9-7/8"

Long String

Size 5-1/2 " Cemented with 425 sx
TOC Surf feet determined by Calc.
Hole Size 6-3/4"
Total Depth 3873'

Injection interval
3750 feet to 3873 feet
(~~perforated~~ or open hole)

Tubing size 2-3/8" lined with IPC (Material) set in a Nickel Plated Baker Model AD-1 Tension (Brand and Model) packer at 3650 feet (or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Grayburg

2. Name of Field or Pool (if applicable) Eunice Monument

3. Is this a new well drilled for injection? ____ Yes X No
   If no, for what purpose was the well originally drilled? Oil Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No

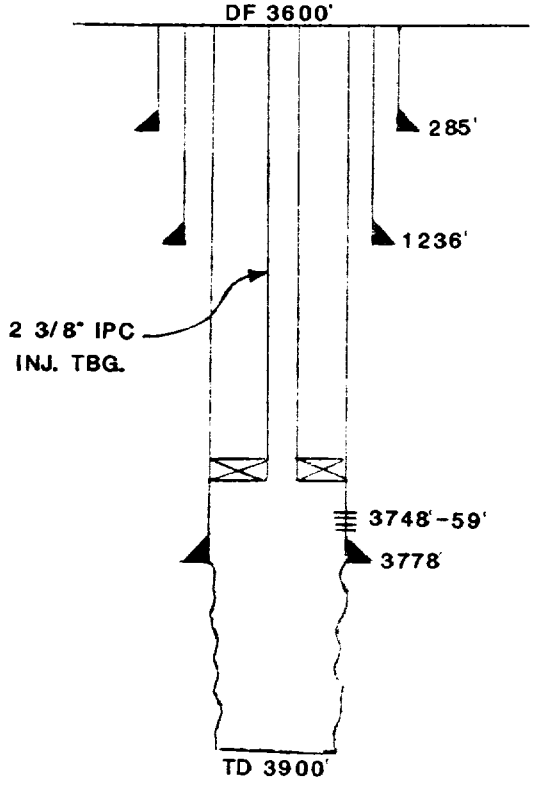
5. Give the depth in and name of any overlying and/or underlying oil or gas zones (pools) in this area. 2600' to top of Eumont for overlying zone.

INJECTION WELL DATA SHEET

Chevron U.S.A. Inc.	Eunice Monument South Unit Expansion Area B
OPERATOR	LEASE

WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
Three strings with open hole and casing perforations.				

SCHEMATICS



TUBULAR DATA

Surface Casing

Size 10-3/4 " Cemented with 225 sx
TOC Surf feet determined by Calc.
Hole size 12-1/4"

Intermediate Casing

Size 7-5/8 " Cemented with 425 sx
TOC Surf feet determined by Calc.
Hole size 9-7/8"

Long String

Size 5-1/2 " Cemented with 425 sx
TOC Surf feet determined by Calc.
Hole Size 6-3/4"
Total Depth 3900'

Injection interval
3748 feet to 3900 feet
(perforated and open hole)

Tubing size 2-3/8" lined with IPC (Material) set in a Nickel Plated Baker Model AD-1 Tension (Brand and Model) packer at 3648 feet (or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Grayburg

2. Name of Field or Pool (if applicable) Eunice Monument

3. Is this a new well drilled for injection? ____ Yes X No
   If no, for what purpose was the well originally drilled? Oil Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No

5. Give the depth in and name of any overlying and/or underlying oil or gas zones (pools) in this area. 2600' to top of Eumont for overlying zone.

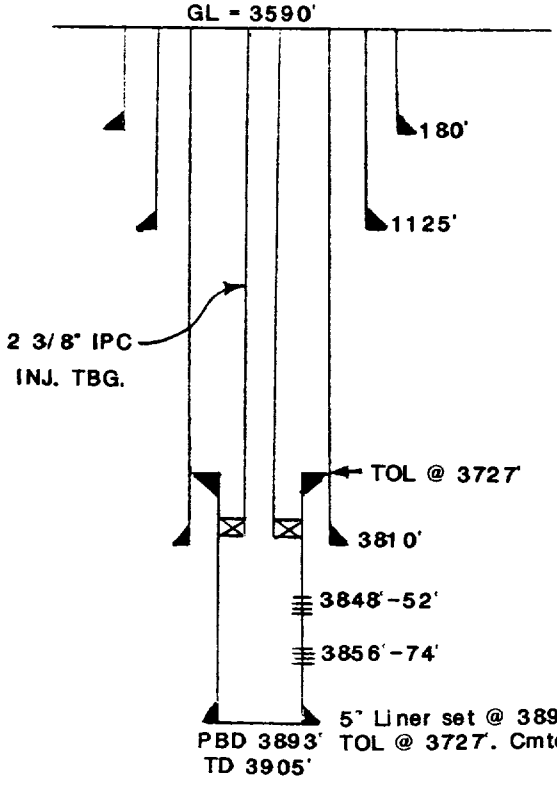
pf/4702/07030/01

INJECTION WELL DATA SHEET

Chevron U.S.A. Inc. — OPERATOR
Eunice Monument South Unit Expansion Area B — LEASE

WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
Three strings with liner				

SCHEMATICS



TUBULAR DATA

Surface Casing

Size 12-1/2 " Cemented with 2/8 sx
TOC Surf feet determined by Circ.
Hole size 15-1/2"

Intermediate Casing

Size 9-5/8 " Cemented with 400 sx
TOC 420 feet determined by Calc.
Hole size 11-1/4"

Long String

Size 7 " Cemented with 300 sx
TOC 1966 feet determined by Calc.
Hole Size 8-3/4"
Total Depth 3905'

Injection interval
3848 feet to 3874 feet
(perforated)

Tubing size 2-3/8" lined with IPC (Material) set in a Nickel Plated Baker Model AD-1 Tension (Brand and Model) packer at 3748 feet (or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Grayburg

2. Name of Field or Pool (if applicable) Eunice Monument

3. Is this a new well drilled for injection? ____ Yes X No
   If no, for what purpose was the well originally drilled? Oil Production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No

5. Give the depth in and name of any overlying and/or underlying oil or gas zones (pools) in this area. 2600' to top of Eumont for overlying zone.

V. Area Map