

Houston Division
Production Operations, U.S. & Canada



P.O. Box 2409
Hobbs, New Mexico 88240
Telephone 505/393-7106

August 24, 1977

New Mexico Oil Conservation Commission
P. O. Box 1980
Hobbs, New Mexico 88240

Gentlemen:

Attached are copies of New Mexico Oil Conservation Commission Form C-108 and exhibits requesting administrative approval of a salt water disposal well in the Marathon operated Lea Unit located in Sections 11, 12, 13, 14, and 24 of Township 20-South, Range 34-East and Sections 18 and 19 of Township 20-South, Range 35-East.

The previous salt water disposal well was plugged and abandoned due to casing failure. Because this unit cannot be operated without a salt water disposal system, Lea Unit Well No. 8, located 810' FNL and 1980' FEL on Section 12, Township 20-South, Range 34-East, is being proposed for plugback and recompletion as a salt water disposal well. This well will inject into the reef formation, which is the same formation the previous SWD well injected into. The previous well was located 1905' FSL and 810' FWL, Section 12, Township 20-South, Range 34-East.

Because there are no producing wells within a one-half mile radius of the proposed SWD well except wells within the Lea Unit, there have been no waivers obtained (Rule 701-B). Thus, we ask that the 15-day waiting period be waived and a permit issued as soon as possible.

Very truly yours,

A handwritten signature in black ink, appearing to read 'C. S. Hilton, Jr.' with a stylized flourish at the end.

C. S. Hilton, Jr.
Operations Superintendent

AWR:mfm
Enclosures

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FEB 2 1977

U.S. CONSERVATION COMMISSION
HOBBBS, N. M.

Houston Division
Production Operations, U.S. & Canada



**Marathon
Oil Company**

P.O. Box 2409
Hobbs, New Mexico 88240
Telephone 505/393-7106

August 24, 1977

Mark Smith
P. O. Box 1296
Lovington, New Mexico 88260

Dear Sir:

Attached are copies of Form C-108 and exhibits for a proposed re-completion to a salt water disposal well in the Marathon operated Lea Unit (Rule 701-B).

Lea Unit is located in Sections 11, 12, 13, 14 and 24, Township 20-South, Range 34-East, and in Sections 18 and 19, Township 20-South, Range 34-East Lea County, New Mexico

Very truly yours,

A handwritten signature in black ink, appearing to read 'C. S. Hilton, Jr.' with a stylized flourish at the end.

C. S. Hilton, Jr.
Operations Superintendent

AWR:mfm
Enclosures

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OIL CONSERVATION COMM.
HOBBS, N. M.

Houston Division
Production Operations, U.S. & Canada



P.O. Box 2409
Hobbs, New Mexico 88240
Telephone 505/393-7106

August 24, 1977

Texaco, Inc.
P. O. Box 728
Hobbs, New Mexico 88240

Gentlemen:

Attached are copies of Form C-108 and exhibits for a proposed re-completion to a salt water disposal well in the Marathon operated Lea Unit (Rule 701-B).

Lea Unit is located in Sections 11, 12, 13, 14 and 24, Township 20-South, Range 34-East, and in Sections 18 and 19, Township 20-South, Range 34-East, Lea County, New Mexico.

Very truly yours,

A handwritten signature in cursive script, appearing to read 'C. S. Hilton, Jr.'.

C. S. Hilton, Jr.
Operations Superintendent

AWR:mfm
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AUG 23 1977

OIL CONSERVATION COMM.
HOBBS, N. M.

Houston Division
Production Operations, U.S. & Canada



P.O. Box 2409
Hobbs, New Mexico 88240
Telephone 505/393-7106

August 24, 1977

ARCO
P. O. Box 1710
Hobbs, New Mexico 88240

Gentlemen:

Attached are copies of Form C-108 and exhibits for a proposed re-completion to a salt water disposal well in the Marathon operated Lea Unit (Rule 701-B).

Lea Unit is located in Sections 11, 12, 13, 14 and 24, Township 20-South, Range 34-East, and in Sections 18 and 19, Township 20-South, Range 34-East, Lea County, New Mexico.

Very truly yours,

A handwritten signature in cursive script, appearing to read 'C. S. Hilton, Jr.'.

C. S. Hilton, Jr.
Operations Superintendent

AWR:mfm
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OIL CONSERVATION COMM.
HOBBS, N. M.

NEW MEXICO OIL CONSERVATION COMMISSION
APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR Marathon Oil Company		ADDRESS P. O. Box 2409, Hobbs, New Mexico 88240	
LEASE NAME Lea Unit	WELL NO. 8	FIELD Lea Unit	COUNTY Lea
LOCATION UNIT LETTER B ; WELL IS LOCATED 810 FEET FROM THE North LINE AND 1980 FEET FROM THE East LINE, SECTION 12 TOWNSHIP 20 RANGE 34 NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	13 3/8"	865'		Surface	
INTERMEDIATE					
LONG STRING	9 5/8"	5507'		Surface	
TUBING	4 1/2"	+3975'	NAME, MODEL AND DEPTH OF TUBING PACKER Retrievable Type Packer (within 50' of perfs)		

NAME OF PROPOSED INJECTION FORMATION Reef	TOP OF FORMATION 3975'	BOTTOM OF FORMATION 4600'
---	----------------------------------	-------------------------------------

IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing	PERFORATIONS OR OPEN HOLE? Perforations	PROPOSED INTERVAL(S) OF INJECTION To be chosen after running logs
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Penn Gas	HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? Yes

LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH

See Attached U.S.G.S. Form 9-331C

DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 370'	DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA None in this area	DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 9480'
---	---	---

ANTICIPATED DAILY INJECTION VOLUME (BBL'S) 14,000	MINIMUM 10,000	MAXIMUM 18,000	OPEN OR CLOSED TYPE SYSTEM Closed	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Gravity	APPROX. PRESSURE (PSI)
ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE -			WATER TO BE DISPOSED OF Yes	NATURAL WATER IN DISPOSAL ZONE Yes	ARE WATER ANALYSES ATTACHED? No

NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) Mark Smith P. O. Box 1296, Lovington, New Mexico 88260
--

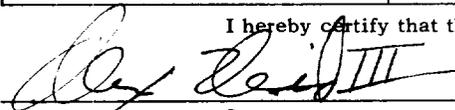
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL Texaco Inc. P. O. Box 728, Hobbs, New Mexico 88240
--

ARCO P. O. Box 1710, Hobbs, New Mexico 88240

NOTE: WATER PRODUCED FROM DEVONIAN OIL RESERVOIR.

HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING? Yes	SURFACE OWNER Yes	EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL Yes	THE NEW MEXICO STATE ENGINEER No
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B) Yes	PLAT OF AREA Yes	ELECTRICAL LOG Yes	DIAGRAMMATIC SKETCH OF WELL Yes

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


(Signature)

Production Engineer
(Title)

8-24-77
(Date)

NOTE: Should waivers from the State Engineer, the surface owner, and all operators within one-half mile of the proposed injection well, not accompany this application, 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. If 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 701.

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OIL CONSERVATION COMM.
HOBBS, N. M.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM-02127-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

7. UNIT AGREEMENT NAME

Lea Unit

8. FARM OR LEASE NAME

Lea Unit

9. WELL NO.

8

10. FIELD AND POOL, OR WILDCAT

Lea Unit Penn

11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA

Sec. 12-20S-34E

12. COUNTY OR PARISH 13. STATE

Lea

New Mexico

1. OIL WELL GAS WELL OTHER TA, Gas Zone Depleted

2. NAME OF OPERATOR
Marathon Oil Company

3. ADDRESS OF OPERATOR
P. O. Box 2409, Hobbs, New Mexico 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface

810' FNL and 1980' FEL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

KDB 3693', GL 3674'

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GEOLOGICAL SURVEY
DSS, NEW MEXICO

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other)

(Other) See Below*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

- Rig up pulling unit and pull tubing.
- Run free point in 5 1/2" casing.
- Cut and pull 5 1/2" casing at indicated free point (cement top at 12,400').
- Set cement plugs according to ^{USGS} ~~MOCC~~ as follows:
 - CIBP above existing Penn perms with 35' cement cup.
 - 100' plug in and out of 5 1/2" casing stub.
 - 100' plug at top of the Wolfcamp.
 - 100' plug at top of the Bone Springs.
 - 100' plug at top of the Glorieta.
 - 100' plug in and out of the 9 5/8" casing shoe.

*Plan to abandon hole below 9 5/8" casing and plan to convert well to salt water disposal when permit granted.

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

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

SIGNED

Raymond Moroz III

TITLE Production Engineer

DATE August 19, 1977

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
AS AMENDED

AUG 22 1977

Bernard Moroz
BERNARD MOROZ
ACTING DISTRICT ENGINEER

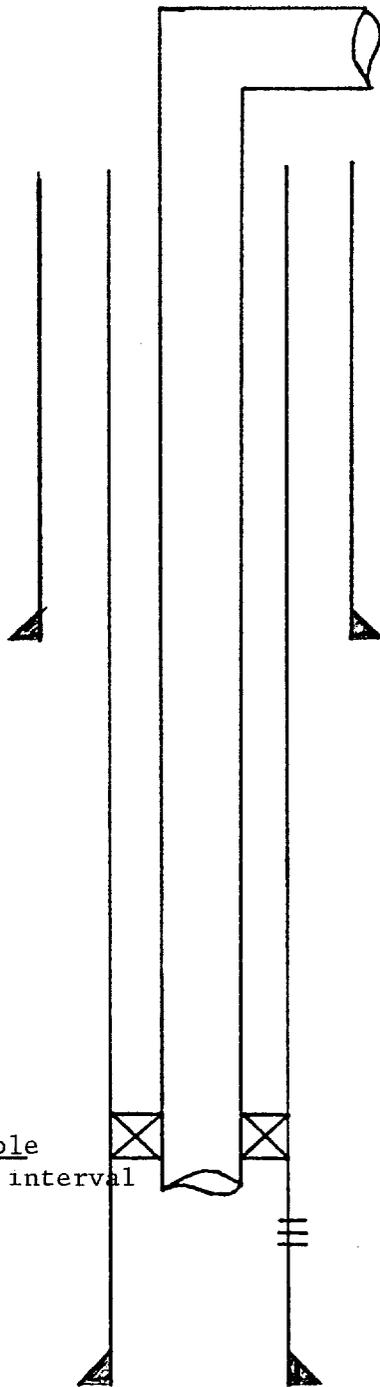
*See Instructions on Reverse Side

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AUG 28 1977

CIL CONSERVATION COMMISSION
HOBBS, N. M.

PROPOSED LEA UNIT #8 SWD
1905' FSL and 810' FWL
Sec 12, T-20-S, R-34-E
Lea County, New Mexico
Lease Designation and Serial No. 02127-B



4 1/2" fiberglass tubing w/retrievable packer within 50' of injection interval

13 3/8" @ 865'. Cemented w/725 sx. Cement Circulated.

Perforations @ approx. 4200'.

9 5/8" @ 5507'. Cemented w/700 sx. Cement Circulated.

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OIL CONSERVATION COMM.
HOBBS, N. M.

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE

OIL CONSERVATION COMMISSION
Hobbs DISTRICT

OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE August 26, 1977

RE: Proposed MC _____
Proposed DHC _____
Proposed NSL _____
Proposed SWD X _____
Proposed WFX _____
Proposed PMX _____

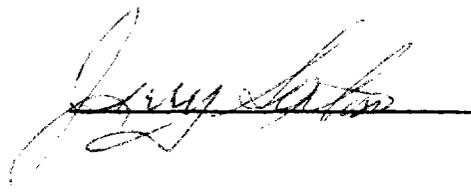
Gentlemen:

I have examined the application dated _____
for the Marathon Oil Co. Lea Unit #8-B 12-20-34
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

O.K.---J.S.

Yours very truly,



A handwritten signature in cursive script, appearing to read 'J. S.', is written over a horizontal line.