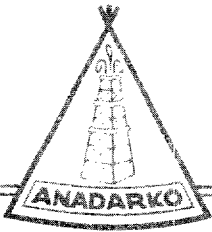


Also See Case 5427



ANADARKO PRODUCTION COMPANY

3109 WINTHROP AVENUE P. O. BOX 9317 FORT WORTH, TEXAS 76107
CABLE ADDRESS: ANDARK

WFX-240

August 10, 1966

Re: Syntex

New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico

5 Aug 12 AM 7 43

Gentlemen:

Anadarko Production Company makes this application for authority to convert its Federal-Love #1 (NW/4 NE/4 SW/4 Section 4, Twp. 18 South, Range 32 East, Lea County, New Mexico) to water injection status.

This well was recently acquired from Maljamar Petroleum Products, Inc. to be used as a water injection well in an orderly expansion of the Pearsall Queen Sand Unit. This will provide much better sweep efficiency around Pearsall Queen Sand Unit Well 6-1, resulting in recovery of additional oil which would otherwise be unrecovered.

Anadarko plans to place the acreage (NE/4 SW/4) surrounding the well in the Pearsall Queen Sand Unit, utilizing the expansion section of the Unit Agreement. The royalty owner on the forty (40) acres (United States Geological Survey) has given verbal approval to convert the well to injection status. We are this date filing USGS form 9-331 (with a copy of the attached letter) with them for their written approval. You should receive notice of such approval from them in the near future.

Also, we have solicited waiver to this application from all offset operators (see addresses below).

In connection with and support of this application, Anadarko alleges and states the following:

1. The well is currently completed with 5½" OD, 14 #/ft. casing set at 3879 feet and cemented with 380 sacks of cement (cement top calculated at 2295 feet from the surface). Plastic coated tubing (2" OD) and a packer will be run, set above the pay zone and water injected there through.

2. The above well will be used for the purpose of injecting water into the Queen formation located at 3755-60 and 3770-78 feet from the surface and it is anticipated that there will be injected into the well a volume of 450 barrels of water per day.
3. Injection of water into the well will:
 - a. Provide for protection of correlativerights by preventing loss of oil from the unit area.
 - b. Provide more efficient sweep, resulting in additional oil recovery and afford orderly and complete development of the Pearsall Queen Sand Unit.
 - c. Be in the interest of conservation since it will prevent loss of oil into areas of the reservoir which are inaccessible by recovery wells.
4. Attached hereto and made a part hereof are the following:
 - a. A map showing all leases and wells within a two-mile radius of the proposed injection well.
 - b. A map showing the Pearsall Queen Sand Unit, current injection wells (circled in red pencil) and the proposed injection well (circled in yellow pencil).
 - c. United States Geological Survey Form 9-331 "Sundry Notices and Reports on Wells" showing well completion date. (In quadruplicate).
 - d. Copy of letter to the United States Geological Survey transmitting the above Form 9-331 with a request for their approval and notification to you.
 - e. A schedule showing the casing and tubing arrangement for the proposed injection well.
 - f. Waiver letter to offset operators.

Anadarko is filing this application in accordance with Rules and Regulations of the New Mexico Oil Conservation Commission and the United States Geological Survey, and hereby requests that you enter an order allowing the conversion of this well to water injection status.

I, E. A. Riley, do hereby certify that on this 10th day of August, 1966, duplicate copies of this letter and application, together with all exhibits, were mailed to the following parties:

- B. M. Jackson, Republic National Bank Bldg., Dallas, Texas
- ✓ Reading & Bates, Philtower Bldg., Tulsa, Oklahoma
- Minntex Oil Company, 304 Foshay Tower, Minneapolis, Minn.

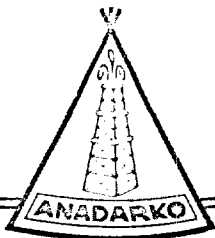
Yours very truly,

ANADARKO PRODUCTION COMPANY



E. A. Riley, Superintendent
Secondary Recovery Division

EAR:pr



ANADARKO PRODUCTION COMPANY

3109 WINTHROP AVENUE P. O. BOX 9317 FORT WORTH, TEXAS 76107
CABLE ADDRESS: ANDARK

August 10, 1966

RECEIVED

1966 AUG 15 AM 7 59

B. M. Jackson
Republic National Bank Bldg.
Dallas, Texas

Reading & Bates
Philtower Bldg.
Tulsa, Oklahoma

Minntex Oil Company
304 Foshay Tower
Minneapolis, Minnesota

RE: Federal-Love Lease
E/2 SW/4 and S/2 SE/4
Sec. 4, T18S, R32E,
Lea County, New Mexico

Gentlemen:

As owner or operator of the lease offsetting our Federal-Love lease (E/2 SW/4 and S/2 SE/4 Sec. 4, T18S, R32E), we request your waiver of our application to convert well No. 1 to water injection status as a logical expansion of the waterflood program on our Pearsall Queen Sand Unit.

You are requested to either execute and mail a copy of this waiver letter to the New Mexico Oil Conservation Commission (in the stamped addressed envelope enclosed) or telegram your approval. Please send us a copy of your approval.

Yours very truly,

ANADARKO PRODUCTION COMPANY

E. A. Riley, Superintendent
Secondary Recovery Division

EAR:pr

I ~~on the~~ waive the subject application to convert Anadarko's Federal-Love #1 to water injection status.

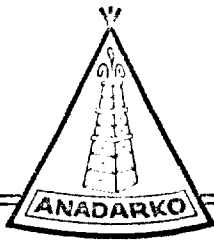
for: B. M. Jackson

by:

date: 8-11-66

by:

date: August 16, 1966



ANADARKO PRODUCTION COMPANY

3109 WINTHROP AVENUE P. O. BOX 9317 FORT WORTH, TEXAS 76107
CABLE ADDRESS: ANDARK

August 10, 1966

MAIN OFFICE

'66 AUG 19 AM 7 40

B. M. Jackson
Republic National Bank Bldg.
Dallas, Texas

Reading & Bates
Philtower Bldg.
Tulsa, Oklahoma

Minntex Oil Company
304 Foshay Tower
Minneapolis, Minnesota

RE: Federal-Love Lease
E/2 SW/4 and S/2 SE/4
Sec. 4, T18S, R32E,
Lea County, New Mexico

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You are requested to either execute and mail a copy of this waiver letter to the New Mexico Oil Conservation Commission (in the stamped addressed envelope enclosed) or telegram your approval. Please send us a copy of your approval.

Yours very truly,

ANADARKO PRODUCTION COMPANY

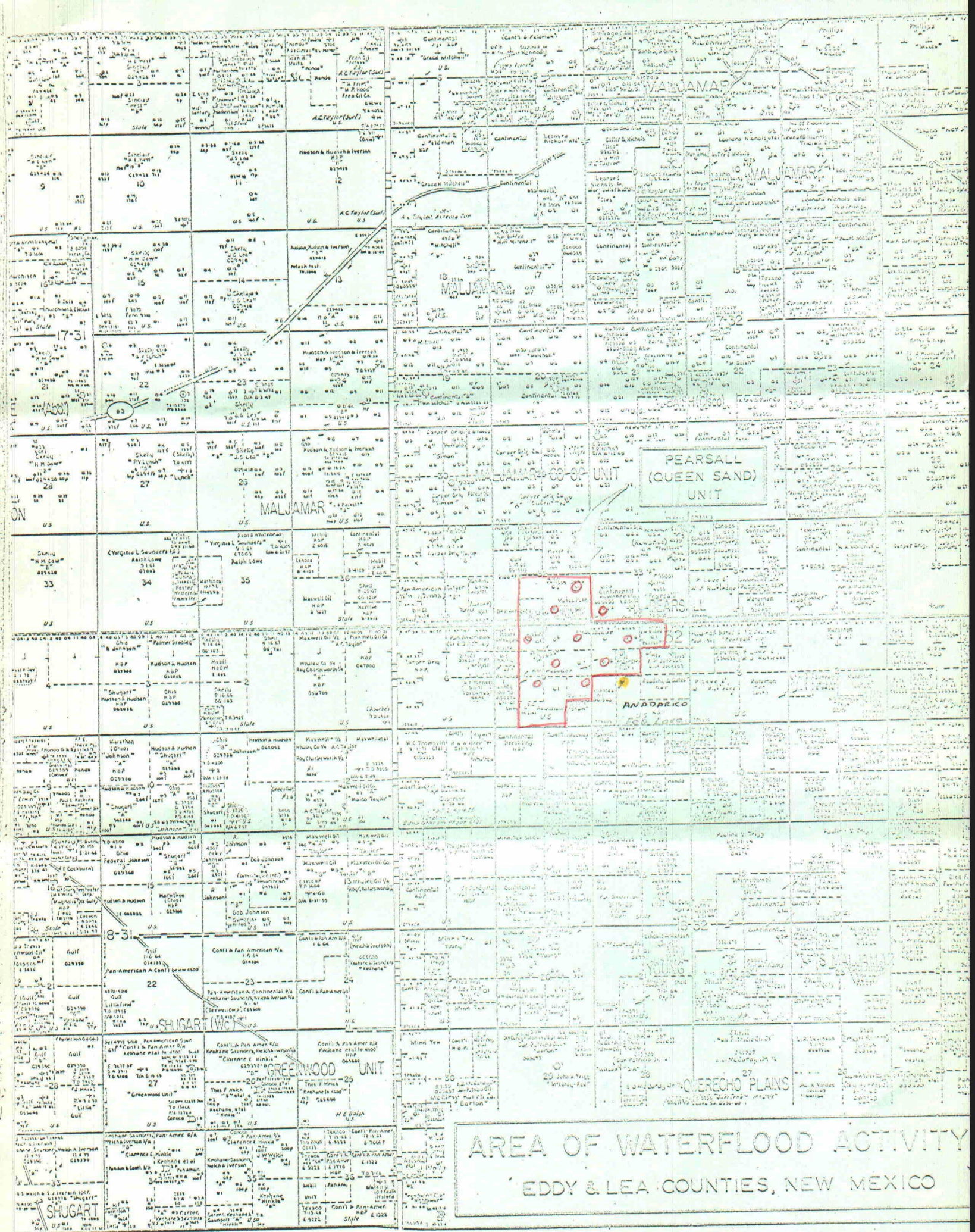
E. A. Riley, Superintendent
Secondary Recovery Division

EAR:pr

I or We approve the subject application
to convert Anadarko's Federal-Love #1 to
water injection status.

for: Reading and Bates, Inc.

by: Bill M. Burken date: August 16, 1966



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

LC 059255

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

--

7. UNIT AGREEMENT NAME

--

8. FARM OR LEASE NAME

Federal-Love

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Pearsall

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

--

14. PERMIT NO.

15. ELEVATIONS (Show whether DS, RT, GS, etc.)

3852 G.L.

12. COUNTY OR PARISH

Lea

13. STATE

New Mexico

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐
☐
☐
☐
☐

PULL OR ALTER CASING

☐
☐
☐
☐
☐

FRACTURE TREAT

MULTIPLE COMPLETION

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐
☐
☐
☐
☐

REPAIRING WELL

☐
☐
☐
☐
☐

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other) Convert to water injection

☒

(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.) *

Check and clean out to T.D. Run 2" OD plastic coated tubing with tension packer and set at 3750 ft. Hook up well to water injection line and initiate injection.

Well currently is temporarily abandoned.

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

SIGNED

E. A. Riley

TITLE

Superintendent

Secondary Recovery Div.

DATE 3-10-66

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

LC 059255

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal-Love

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Pearsall

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

12. COUNTY OR PARISH 13. STATE

Lea

New Mexico

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.)1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

Anadarko Production Company

3. ADDRESS OF OPERATOR

P.O. Box 9317, Fort Worth, Texas

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface2310' FSL & 1650' FWL of Section 4, Twp. 18 South
Rge. 32 East, Lea County, New Mexico

14. PERMIT NO.

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

3852 G.L.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

Convert to water injection x
(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.)*

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SIGNED

E. A. Riley

TITLE

Superintendent

Secondary Recovery Div.

DATE

8-10-66

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

August 24, 1966

ADDRESS CORRESPONDENCE TO:
STATE CAPITOL
SANTA FE, NEW MEXICO 87501

Mr. A. L. Porter, Jr.
Secretary-Director
Oil Conservation Commission
Santa Fe, New Mexico

Dear Mr. Porter:

Reference is made to the Application of Anadarko Production Company submitted to me on August 17, 1966 which seeks authority to convert its Federal-Love #1 in the NW $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 4, Township 18 South, Range 32 East, to water injection status.

After reviewing the application and the injection well data submitted with the application and having received further information from Mr. Nutter, it appears that the granting of this application will not constitute a threat of contamination to the fresh waters which may exist in the area. Therefore, this office offers no objection to the granting of the application.

FEI/ma
cc-Anadarko Production Co.
F. H. Hennighausen

Yours truly,

S. E. Reynolds
State Engineer

By: *Frank E. Irby*
Frank E. Irby
Chief
Water Rights Div.

CLASS OF SERVICE

This is a fast message unless its deferred character is indicated by the proper symbol.

WESTERN UNION

TELEGRAM (06)

W. P. MARSHALL, PRESIDENT

SYMBOLS

DL=Day Letter

NL=Night Letter

LT=International Letter Telegram

The filing time shown in the date line on domestic telegrams is LOCAL TIME at point of origin. Time of receipt is LOCAL TIME at point of destination

LA051 DA169

1966 SEP 30 AM 10 22

D TNA021 PB=TN DALLAS TEX 30 1101A CST=

MR DAN S NUTTER=

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE NMEX=

MAIN OFFICE OF

WE HAVE NO OBJECTION TO ANADARKO'S CONVERSION TO A
WATER WELL OF THEIR NO 1 FEDERAL=LOVE LEASE E/2 SW 1/4
AND S/2 SE/4 SEC 4, T.18S, R.32E, LEA COUNTY, NEW
MEXICO, AS AN EXPANSION OF THEIR WATERFLOOD PROGRAM ON
THEIR PEARSALL QUEEN SAND UNIT=

MINNTEX OIL COMPANY=

=1 E/2 SW/4 S/2 SE/4 SEC 4 T.18S R.32E=

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE