



*WFX-58  
Youngblood  
due date Oct 28*

R. C. TUCKER, PRES.

October 11, 1960

PHONE MU 2-5241  
ADDRESS REPLY TO:  
BOX 1659  
MIDLAND, TEXAS

Oil Conservation Commission  
Box 871  
Santa Fe, New Mexico

Re: Application for Administrative  
Approval for Conversion of Unit  
Wells to Water Injection Wells,  
North Central Caprock Queen Unit  
and Rock Queen Unit, Lea & Chaves  
Counties, New Mexico

Gentlemen:

As provided in the Oil Conservation Commission orders No. R-1311 and R-1541, Great Western Drilling Company, as operator of both the North Central Caprock Queen Unit and Rock Queen Unit, requests administrative approval for the conversion of the following Unit Wells:

| <u>Unit Well No.</u>                      | <u>Location</u>                         |
|---|---|
| North Central Caprock<br>Queen Unit 15-16 | SE/4 of SE/4 of Sec. 15, T-13-S, R-31-E |
| Rock Queen Unit 23-4                      | NW/4 of NW/4 of Sec. 23, T-13-S, R-31-E |

Well No. 22-1, in the Rock Queen Unit, is offset by the above listed wells. Well 22-1 has received response to water injection since September 20, 1960. Early in September this well was producing 2 barrels per day on test. As of September 30, Well 22-1 is pumping 20 barrels of oil per day.

We respectfully submit that the ultimate recoverable oil from both the North Central Caprock Queen Unit and the Rock Queen Unit Reservoirs will be decreased and that waste will occur due to an unbalanced condition in the pattern flooding system unless Wells 15-16 and 23-4 are converted to water injection at this time.

Attached to this application are: the C-116 of Great Western Drilling Company Well No. 22-1, before and after stimulation; a plat of the area showing all producing, water injection and the proposed water injection wells; and the offset operators.

Waivers from the offset operators are being requested at this time.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By: *Chew*



OHC:mc

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR..... Great Western Drilling Company POOL..... Caprock Queen  
 ADDRESS..... Box 1659, Midland, Texas MONTH OF September, 19 60  
 SCHEDULED TEST..... COMPLETION TEST..... SPECIAL TEST ..... (Check One)  
 (See Instructions on Reverse Side)

| Lease                                  | Well No. | Date of Test | Producing Method | Choke Size | Test Hours | Daily Allowable Bbls. | Production During Test |           |         | GOR Cu. Ft. Per Bbl. |
|--|----------|--------------|------------------|------------|------------|-----------------------|------------------------|-----------|---------|----------------------|
|  |          |              |                  |            |            |                       | Water Bbls.            | Oil Bbls. | Gas MCF |                      |
| Rock Queen Unit<br>Tract 17            | 22-1     | 9-30         | Pump             |            | 24         | 8                     | 0                      | 20        | TSTM    |                      |
| Test after stimulation by water flood. |          |              |                  |            |            |                       |                        |           |         |                      |

No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60 degrees F. Specific gravity base will be 0.60.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission. In accordance with Rule 301 and Appropriate Pool Rules.

(I certify that the information given is true and complete to the best of my knowledge.)

Date..... October 11, 1960..... Great Western Drilling Company  
Company  
 By..... O. H. Crews  
O. H. Crews  
Administrative Coordinator  
Title

Mexico Oil Conservation Commission. In accordance with Rule 301 and Appropriate Pool Rules.

(I certify that the information given is true and complete to the best of my knowledge.)

Date..... October 11, 1960..... Great Western Drilling Company  
Company  
 By..... O. H. Crews  
O. H. Crews  
Administrative Coordinator  
Title

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR Great Western Drilling Company POOL Caprock Queen  
 ADDRESS Box 1659, Midland, Texas MONTH OF September, 19 60  
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 (See Instructions on Reverse Side)

| Lease                                   | Well No. | Date of Test | Producing Method | Choke Size | Test Hours | Daily Allowable Bbls. | Production During Test |           |         | GOR Cu. Ft. Per Bbl. |
|---|----------|--------------|------------------|------------|------------|-----------------------|------------------------|-----------|---------|----------------------|
|   |          |              |                  |            |            |                       | Water Bbls.            | Oil Bbls. | Gas MCF |                      |
| Rock Queen Unit Tract 17                | 22-1     | 9-2          | Pump             |            | 24         | 8                     | 0                      | 2         | TSTM    |                      |
| Test before stimulation by water flood. |          |              |                  |            |            |                       |                        |           |         |                      |

No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60 degrees F. Specific gravity base will be 0.60.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission. In accordance with Rule 301 and Appropriate Pool Rules.

(I certify that the information given is true and complete to the best of my knowledge.)

Date October 11, 1960 Great Western Drilling Company  
Company  
 By O. H. Crews  
Administrative Coordinator  
Title

R-31-E

R-32-E

NORTH CENTRAL CAPROCK QUEEN UNIT

15-16

T-13-S

T-13-S

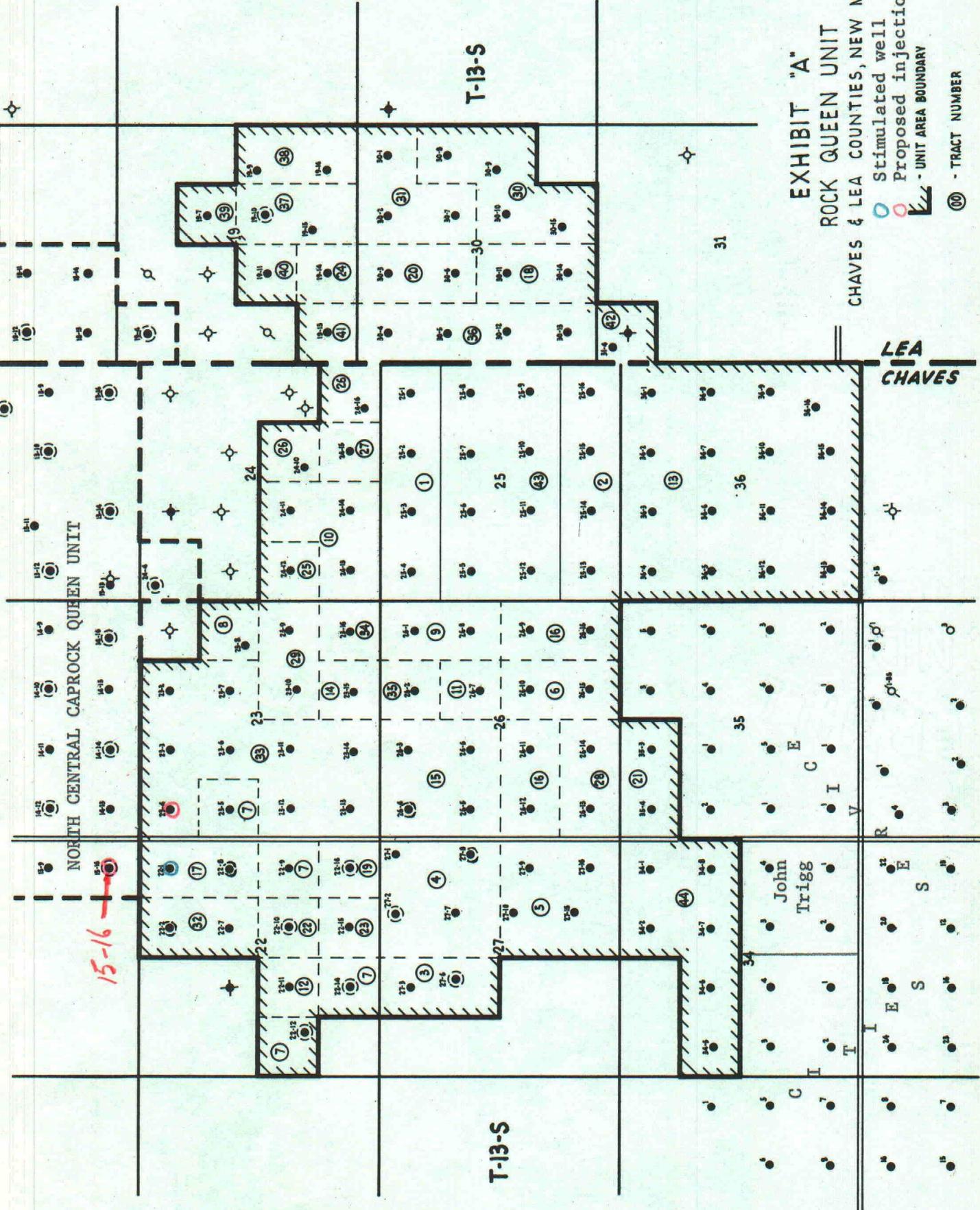
EXHIBIT "A"

ROCK QUEEN UNIT

CHAVES & LEA COUNTIES, NEW MEXICO

- Stimulated well
- Proposed injection well
- ▬ UNIT AREA BOUNDARY
- ⊙ - TRACT NUMBER

LEA CHAVES





STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

October 13, 1960

S. E. REYNOLDS  
STATE ENGINEER

ADDRESS CORRESPONDENCE TO:  
P. O. BOX 1079  
SANTA FE, N. M.

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

Dear Mr. Porter:

Reference is made to the application of Great Western Drilling Company to convert wells 15-16 of the North Central Caprock Queen Unit and 23-4 of the Rock Queen Unit, Chaves County, to water injection wells.

In view of the fact that injection will be through tubing under a packer set at about 3000 feet, which in each case is well below the top of the cement behind the oil string, it is concluded that a threat of contamination to any fresh waters which may exist in the area is not likely to occur. There, this office offers no objection to the granting of this application.

Very truly yours,

S. E. Reynolds  
State Engineer

By:

*Frank E. Irby*  
Frank E. Irby  
Chief

Water Rights Division

ma

cc-Great Western Drilling Co.  
F. H. Hennighausen

RECEIVED OFFICE 300  
OCT 27 PM 1:11



R. C. TUCKER, PRES.

October 27, 1960

PHONE MU 2-5241  
ADDRESS REPLY TO:  
BOX 1659  
MIDLAND, TEXAS

Oil Conservation Commission,  
Box 871  
Santa Fe, New Mexico

Attn: Mr. J. E. Kapteina

Gentlemen:

Enclosed please find all waivers required for the expansion of the North Central Caprock Queen Unit by conversion of Unit Well No. 15-16 to water injection and for the Rock Queen Unit by conversion of Well No. 23-4 to water injection.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By *[Signature]*

OHC:TR  
(Enclosures)





R. C. TUCKER, PRES.

October 11, 1960

PHONE MU 2-5241  
ADDRESS REPLY TO:  
BOX 1659  
MIDLAND, TEXAS

Great Western Drilling Company  
P.O. Box 1659  
Midland, Texas

Gentlemen:

We have requested expansion of the Rock Queen Unit and North Central Caprock Queen Unit through administrative approval as set forth in Commission Order No. R-1541 and R-1311. A copy of our letter requesting this expansion is enclosed.

If you have no objection to the application, please signify by signing and returning one copy of this letter to this office.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By *O. H. Lewis*

OHC:mc

We have no objection to the expansion of the Rock Queen Unit and North Central Caprock Queen Unit operations by reason of the conversion of the following wells to water injection wells:

| <u>Unit Well No.</u>                      | <u>Location</u>                         |
|---|---|
| North Central Caprock<br>Queen Unit 15-16 | SE/4 of SE/4 of Sec. 15, T-13-S, R-31-E |
| Rock Queen Unit 23-4                      | NW/4 of NW/4 of Sec. 23, T-13-S, R-31-E |

as requested in your application of October 11, 1960.

GREAT WESTERN DRILLING COMPANY

By *O. H. Lewis*

Date *Oct 27, 1960*





R. C. TUCKER, PRES.

October 11, 1960

PHONE MU 2-5241  
 ADDRESS REPLY TO:  
 BOX 1659  
 MIDLAND, TEXAS

Ambassador Oil Corporation  
 P.O. Box 9338  
 Fort Worth, Texas

Gentlemen:

We have requested expansion of the Rock Queen Unit and North Central Caprock Queen Unit through administrative approval as set forth in Commission Order No. R-1541 and R-1311. A copy of our letter requesting this expansion is enclosed.

If you have no objection to the application, please signify by signing and returning one copy of this letter to this office.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By *Officer*

OHC:mc

We have no objection to the expansion of the Rock Queen Unit and North Central Caprock Queen Unit operations by reason of the conversion of the following wells to water injection wells:

| <u>Unit Well No.</u>                      | <u>Location</u>                         |
|---|---|
| North Central Caprock<br>Queen Unit 15-16 | SE/4 of SE/4 of Sec. 15, T-13-S, R-31-E |
| Rock Queen Unit 23-4                      | NW/4 of NW/4 of Sec. 23, T-13-S, R-31-E |

as requested in your application of October 11, 1960.

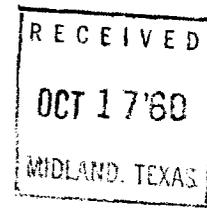
AMBASSADOR OIL CORPORATION

By *E. A. Kelly*

Date *Oct 13, 1960*



GREAT WESTERN DRILLING CO.  
MIDLAND, TEXAS



October 11, 1960

Mr. John Trigg  
Box 5629  
Roswell, New Mexico

Dear Sir:

We have requested expansion of the Rock Queen Unit and North Central Caprock Queen Unit through administrative approval as set forth in Commission Order No. R-1541 and R-1311. A copy of our letter requesting this expansion is enclosed.

If you have no objection to the application, please signify by signing and returning one copy of this letter to this office.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By *W. Beers*

OMG:mc

We have no objection to the expansion of the Rock Queen Unit and North Central Caprock Queen Unit operations by reason of the conversion of the following wells to water injection wells:

| <u>Unit Well No.</u>                      | <u>Location</u>                         |
|---|---|
| North Central Caprock<br>Queen Unit 15-16 | SE/4 of SE/4 of Sec. 15, T-13-S, R-31-E |
| Rock Queen Unit 23-4                      | NW/4 of NW/4 of Sec. 23, T-13-S, R-31-E |

as requested in your application of October 11, 1960.

JOHN TRIGG

By *John T. Trigg*  
Date 10.13.60

Date 10/13/60

October 11, 1960

Graridge Corporation  
P.O. Box 752  
Breckenridge, Texas

Gentlemen:

We have requested expansion of the Rock Queen Unit and North Central Caprock Queen Unit through administrative approval as set forth in Commission Order No. R-1541 and R-1311. A copy of our letter requesting this expansion is enclosed.

If you have no objection to the application, please signify by signing and returning one copy of this letter to this office.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By Officer

OHC:mc

We have no objection to the expansion of the Rock Queen Unit and North Central Caprock Queen Unit operations by reason of the conversion of the following wells to water injection wells:

| <u>Unit Well No.</u>                      | <u>Location</u>                         |
|---|---|
| North Central Caprock<br>Queen Unit 15-16 | SE/4 of SE/4 of Sec. 15, T-13-S, R-31-E |
| Rock Queen Unit 23-4                      | NW/4 of NW/4 of Sec. 23, T-13-S, R-31-E |

as requested in your application of October 11, 1960.

GRARIDGE CORPORATION

By SA Ford

Date 10/13/60



R. C. TUCKER, PRES.

October 11, 1960

PHONE MU 2-5241  
ADDRESS REPLY TO:  
BOX 1659  
MIDLAND, TEXAS

Cities Service Oil Company  
Box 97  
Hobbs, New Mexico

Attn: Mr. Geo. Geyer

Gentlemen:

We have requested expansion of the Rock Queen Unit and North Central Caprock Queen Unit through administrative approval as set forth in Commission Order No. R-1541 and R-1311. A copy of our letter requesting this expansion is enclosed.

If you have no objection to the application, please signify by signing and returning one copy of this letter to this office.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By *O. H. Lewis*

OHC:mc

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| Rock Queen Unit 23-4                      | NW/4 of NW/4 of Sec. 23, T-13-S, R-31-E |

as requested in your application of October 11, 1960.

CITIES SERVICE OIL COMPANY

By *R. C. Tucker*

Date 10-13-60

