



WFX-48  
OFFICE OCC  
1960 AUG 8 AM 8:24

August 4, 1960

R. C. TUCKER, PRES.

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 two Unit Wells to Water  
Injection Wells, Rock Queen Unit, Chaves  
& Lea Counties, New Mexico

Gentlemen:

As provided in the Oil Conservation Commission order No. R-1541, Great Western Drilling Company, as operators of the Rock Queen Unit, requests administrative approval for the conversion of the following Unit Wells to Water Injection Wells:

| <u>Unit Well No.</u> | <u>Location</u>                         |
|----------------------|---|
| 22-2                 | NW/4 of NE/4 of Sec. 22, T-13-S, R-31-E |
| 22-8                 | SE/4 of NE/4 of Sec. 22, T-13-S, R-31-E |

Well No. 22-7, offset by Wells 22-2 and 22-8, has received response to water injection since August 1, 1960. The last test on July 29, 1960 was 8 barrels per day. This has increased to 19 barrels per day as of August 1, 1960.

We respectfully submit that the ultimate recoverable oil from the Rock Queen Reservoir will be decreased and that waste will occur due to an unbalanced condition in the pattern flooding system if Unit Wells 22-2 and 22-8 are not converted to water injection at this time.

Attached to this application are: the C-116 of Great Western Drilling Company Well 22-7, 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 offset operators are being requested at this time, and those waivers will be forwarded to the Commission so as to decrease the required fifteen (15) day interim set up by the Commission Order for administrative expansion.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By OH Tucker

OHC:TR



NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR **Great Western Drilling Company** POOL **Caprock Queen**  
 ADDRESS **Box 1659, Midland, Texas** MONTH OF **August**, 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     |                      |
| <b>Rock Queen Unit<br/>Tract 32</b> | <b>22-7</b> | <b>8-1</b>   | <b>Pump</b>      |            | <b>24</b>  | <b>17</b>             | <b>0</b>               | <b>19</b> | <b>TSTM</b> |                      |
| <b>Test after stimulation.</b>      |             |              |                  |            |            |                       |                        |           |             |                      |

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 **August 4, 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 July, 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 Tract #32 | 22-7     | 7-29         | Pump                    |            | 24         | 0 17                  | 0                      | 8         | 3.68    | 460                  |
|                           |          |              | Test before stimulation |            |            |                       |                        |           |         |                      |

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.)

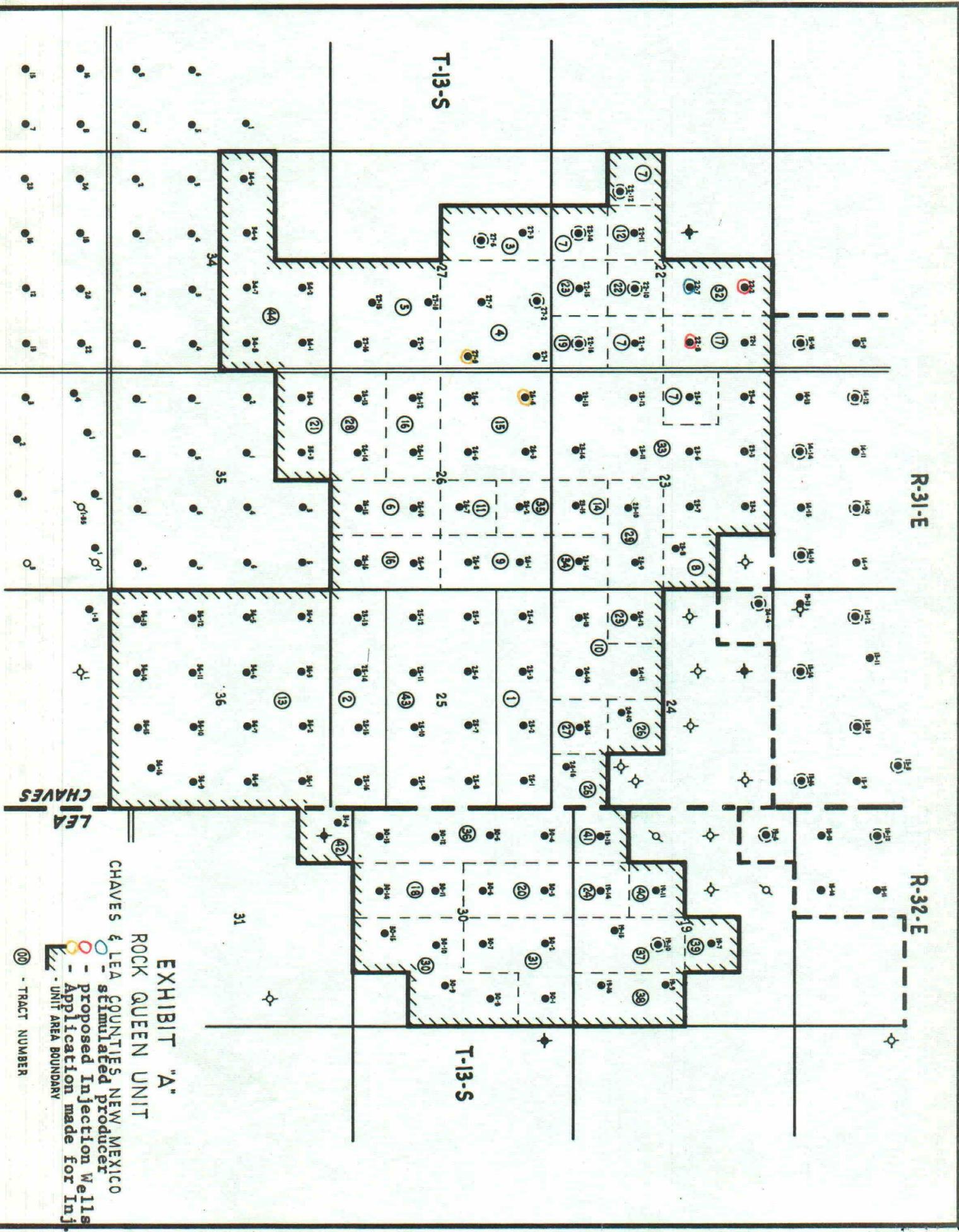
Date August 4, 1960

Great Western Drilling Company  
Company

By O.H.Crews O.H.Crews

Administrative Coordinator

Title



R-31-E

R-32-E

T-13-S

T-13-S

CHAVES  
LEA

EXHIBIT "A"  
ROCK QUEEN UNIT  
CHAVES & LEA COUNTIES, NEW MEXICO

- - Stimulated Producer
- - proposed Injection Wells
- - Application made for Inj
- - UNIT AREA BOUNDARY
- ⑩ - TRACT NUMBER



TAH OFFICE 000

1960 AUG 13 AM 10:00

STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

August 12, 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 the Great Western Drilling Company to convert wells 22-2 and 22-8, Rock Queen Unit, to water injection. These wells are located in the NW $\frac{1}{4}$  of the NE $\frac{1}{4}$  of Section 22, Township 13 South, Range 31 East and the SE $\frac{1}{4}$  of the NE $\frac{1}{4}$  of Section 22, Township 13 South, Range 31 East, respectively.

Since injection will be through 2" tubing under a packer set at about 3000 feet in each case, it appears that there will be no threat of contamination to the fresh waters which may exist in the area. Therefore, 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

FEI/ma  
cc-F. H. Hennighausen  
Great Western Drilling Co.



August 15, 1960

R. C. TUCKER, PRES.

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

Oil Conservation Commission,  
Box 871,  
Santa Fe, New Mexico

Re: Waivers for Application to  
expand flood, Rock Queen Unit,  
Chaves and Lea Counties,  
New Mexico

Gentlemen:

Enclosed please find three (3) waivers to our application for  
the expansion of the flood in the Rock Queen Unit by conversion of  
Wells 22-2 and 22-8 to injection wells.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By O. H. Crews  
O. H. Crews

OHC:TR  
Enclosures





August 4, 1960

1960 AUG 17 AM 8:17

MAIN OFFICE 000

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

R. C. TUCKER, PRES.

John Trigg,  
Box 5629,  
Roswell, N. Mex.

Dear Sir:

We have requested expansion of the Rock Queen Unit through administrative approval as set forth in Commission Order No. R-1541. 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 *Off Beers*

OHC:TR

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

| <u>Unit Well No.</u> | <u>Location</u>                         |
|----------------------|---|
| 22-2                 | NW/4 of NE/4 of Sec. 22, T-13-S, R-31-E |
| 22-8                 | SE/4 of NE/4 of Sec. 22, T-13-S, R-31-E |

as requested in your application of August 4, 1960.

JOHN TRIGG

By *John H. Trigg*  
Date 8-12-60





August 4, 1960

R. C. TUCKER, PRES.

Cities Service Oil Company,  
Box 97,  
Hobbs, New Mexico

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

Attn: Mr. Geo. Geyer

Gentlemen:

We have requested expansion of the Rock Queen Unit through administrative approval as set forth in Commission Order No. R-1541. 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

OHC:TR

By *Ohlbeus*

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

Unit Well No.

Location

22-2  
22-8

NW/4 of NE/4 of Sec. 22, T-13-S, R-31-E  
SE/4 of NE/4 of Sec. 22, T-13-S, R-31-E

as requested in your application of August 4, 1960.

CITIES SERVICE OIL COMPANY

By *[Signature]*

Date 8/8/60





August 4, 1960

R. C. TUCKER, PRES.

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

Great Western Drilling Company,  
Box 1659,  
Midland, Texas

Gentlemen:

We have requested expansion of the Rock Queen Unit through administrative approval as set forth in Commission Order No. R-1541. 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

OHC:TR

By *O. H. Tucker*

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

| <u>Unit Well No.</u> | <u>Location</u>                         |
|----------------------|---|
| 22-2                 | NW/4 of NE/4 of Sec. 22, T-13-S, R-31-E |
| 22-8                 | SE/4 of NE/4 of Sec. 22, T-13-S, R-31-E |

as requested in your application of August 4, 1960.

GREAT WESTERN DRILLING COMPANY

By *O. H. Tucker*

Date 8-15-1960

