



WFX-55

Rec'd Date Oct 17, 1960

September 27, 1960

R. C. TUCKER, PRES.

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

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

Re: Application for Administrative Approval  
for Conversion of three unit wells to  
water injection wells, Rock Queen Unit,  
Chaves and Lea Counties, New Mexico

Gentlemen:

As provided in the Oil Conservation Commission Order No. R-1541, Great Western Drilling Company, as operator 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>
26-12	NW/4 of SW/4 of Sec. 26, T-13-S, R-31-E.
27-10	NW/4 of SE/4 of Sec. 27, T-13-S, R-31-E.
27-16	SE/4 of SE/4 of Sec. 27, T-13-S, R-31-E.

Well No. 27-9, offset by the above wells, has received response to water injection since September 20, 1960. The last test on September 26 was 16 barrels per day - this is an increase of 11 barrels per day over the tests made in August.

We respectfully submit that the ultimate recoverable oil from the Rock Queen Unit Reservoir will be decreased and that waste will occur due to an unbalanced condition in the pattern flooding system if the unit wells 26-12, 27-10 and 27-16 are not converted to water injection at this time.

Attached to this application are: The C-116 of Great Western Drilling Company well 27-9, before and after stimulation; a plat of the area showing all producing, water injection and the proposed water injection wells; and offset operators.

Waivers from offset operators are being requested at this time, and these 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 O. H. Crews  
O. H. Crews



OHC:TR

NEW MEXICO OIL CONSERVATION COMMISSION

1960 SEP 28 AM 8:17  
DISTRICT OFFICE CCC

GAS-OIL RATIO REPORT

OPERATOR Great Western Drilling Company POOL Caprock Queen  
 ADDRESS Box 1659, Midland, Texas MONTH OF September, 1960  
 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 5	27-9	9-26	P		24	17	0	16	TSTM	
After Stimulation by Water Injection										

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 September 27, 1960

Great Western Drilling Company  
Company

By 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 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	
Rock Queen Unit Tract 5	27-9	8-25	P		24	17	0	5	5.5	1100
Before Stimulation by water injection										

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 September 27, 1960

Great Western Drilling Company  
Company

By O. H. Crews O. H. Crews

Administrative Coordinator  
Title

R-32-E

R-31-E

T-13-S

T-13-S

# EXHIBIT "A"

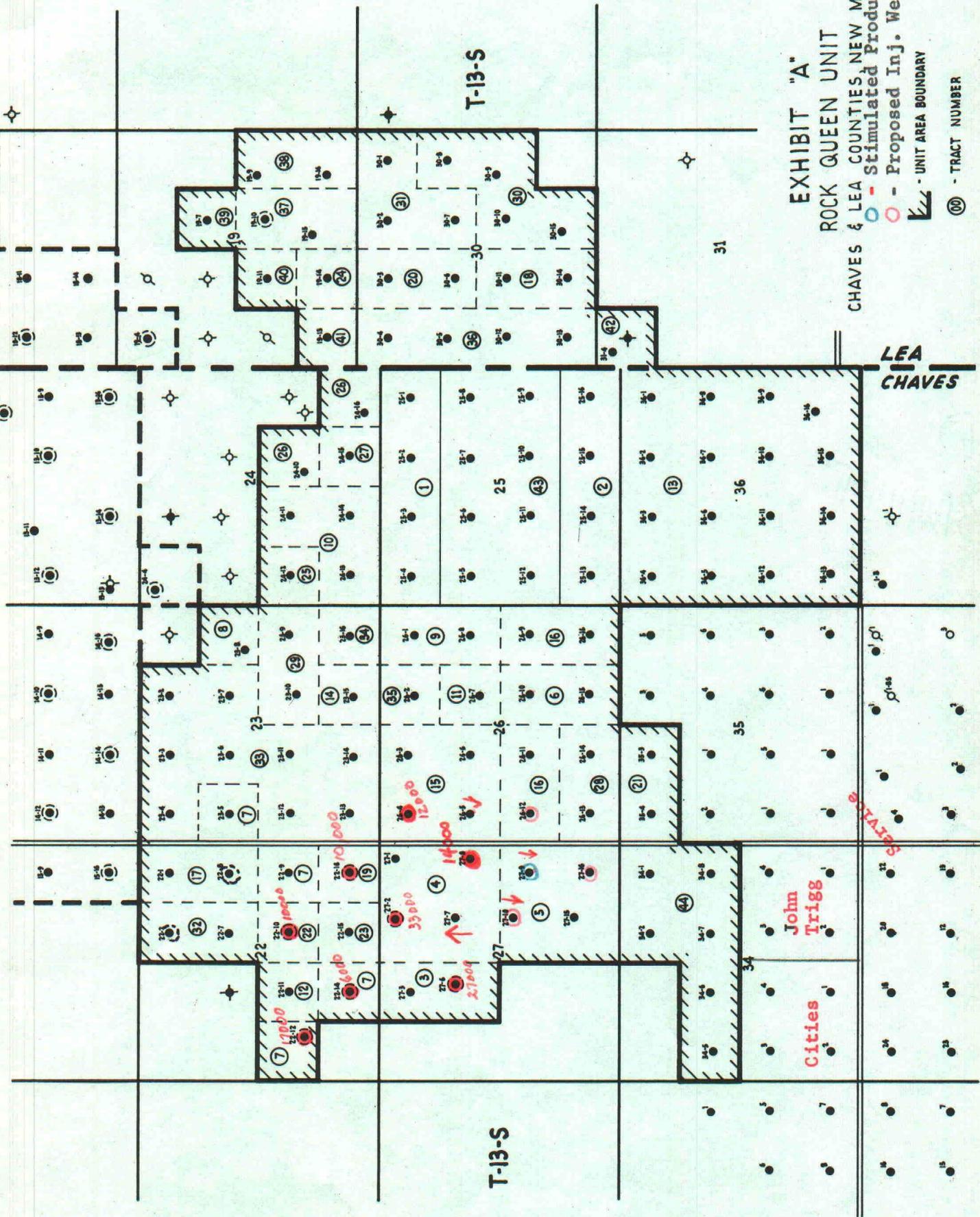
ROCK QUEEN UNIT  
CHAVES & LEA COUNTIES, NEW MEXICO

● - Stimulated Producer  
○ - Proposed Inj. Well

▬ - UNIT AREA BOUNDARY

⊙ - TRACT NUMBER

LEA  
CHAVES





MAIL NOTICE 000

POST OCT 5 AM 8 20

October 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

Attn: Mr. J. E. Keptena

Gentlemen:

Enclosed please find all waivers required on Wells  
26-12, 27-10 and 27-16 to eliminate the fifteen (15) day waiting  
period as set forth in Commission Order No. R-1541.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By *OKH*

OHC:TR  
Enclosures.





September 27, 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

By *Officer*

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>
26-12	NW/4 of SW/4 of Sec. 26, T-13-S, R-31-E.
27-10	NW/4 of SE/4 of Sec. 27, T-13-S, R-31-E.
27-16	SE/4 of SE/4 of Sec. 27, T-13-S, R-31-E.

as requested in your application of September 27, 1960.

GREAT WESTERN DRILLING COMPANY

By *Officer*

Date 10-4-1960



Matter  
Ely  
Bodie



September 27, 1960

R. C. TUCKER, PRES.

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 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 *Ohlwe*

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>
26-12	NW/4 of SW/4 of Sec. 26, T-13-S, R-31-E.
27-10	NW/4 of SE/4 of Sec. 27, T-13-S, R-31-E.
27-16	SE/4 of SE/4 of Sec. 27, T-13-S, R-31-E.

as requested in your application of September 27, 1960.

CITIES SERVICE OIL COMPANY

By *R. C. Tucker*  
Date *10/3/60*





September 27, 1960

R. C. TUCKER, PRES.

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

Mr. John Trigg,  
Box 5629,  
Roswell, New Mexico

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 *[Signature]*

OHC:TE

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>
26-12	NW/4 of SW/4 of Sec. 26, T-13-S, R-31-E.
27-10	NW/4 of SE/4 of Sec. 27, T-13-S, R-31-E.
27-16	SE/4 of SE/4 of Sec. 27, T-13-S, R-31-E

as requested in your application of September 27, 1960.

JOHN TRIGG

By *John H. Trigg*

Date 9-28-60





STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS  
STATE ENGINEER

October 3, 1960

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:

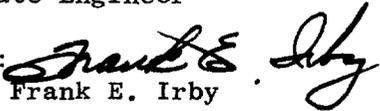
Reference is made to the application of Great Western Drilling Company to convert wells 26-12, 27-10 and 27-16 in the Rock Queen Unit, Chaves County, to water injection wells.

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. Therefore, this office offers no objection to the granting of this application.

Yours truly,

S. E. Reynolds  
State Engineer

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

By:   
Frank E. Irby  
Chief  
Water Rights Division