



WFX-84  
July 1961  
page 8

May 23, 1961

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 Wells: 26-14, 26-16,  
34-6, 34-8 and 35-4 to Water Injection,  
Rock Queen Unit, Lea and Chaves Counties,  
New Mexico.

Gentlemen:

As provided in the Oil Conservation Commission Order R-1541, Great Western Drilling Company as Operator of the Rock Queen Unit, requests administrative approval for conversion of Unit Wells: 26-14, 26-16, 34-6, 34-8 and 35-4 to water injection.

Well 26-14 is in the SE/4 of SW/4 of Sec. 26, T-13-S, R-31-E

Well 26-16 is in the SE/4 of SE/4 of Sec. 26, T-13-S, R-31-E

Well 34-6 is in the SE/4 of NW/4 of Sec. 34, T-13-S, R-31-E

Well 34-8 is in the SE/4 of NE/4 of Sec. 34, T-13-S, R-31-E

Well 35-4 is in the NW/4 of NW/4 of Sec. 35, T-13-S, R-31-E, all in

Chaves County, New Mexico.

Wells 34-6 and 34-8 are direct offsets to Well 34-7 which has responded to water injection by increased production of 14 barrels per day in April to 26 barrels per day test May 16th.

Wells 35-4 and 26-14 are direct offsets to Well 26-13, which has responded by increasing in production from 6 barrels per day in April to 10 barrels per day on May 19th.

Well 26-16 has increased in production from 7 barrels per day in April to 14 barrels per day on May 21st.

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 unless Wells 26-14, 26-16, 34-6, 34-8 and 35-4 are converted to injection at this time. Proposed injection will be down 2" tubing under a packer set at about 3000'.

Attached to this application are: The C-116 of Wells 34-7, 26-13 and 26-16 before and after stimulation; a plat of the area showing production, water injection and proposed injection wells; and offset operators.

Waivers from offset operators are being requested at this time.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By Arthur

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 April, 19 61

SCHEDULED TEST..... COMPLETION TEST..... SPECIAL TEST X..... (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	34-7	4-25	Pump		24	17	0	14	TSTM	
	26-13	4-28	Pump		24	25	0	6	TSTM	
	26-16	4-30	Pump		24	12	0	7	TSTM	
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 May 23, 1961

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 May, 19 61.  
 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	34-7	5-16	Pump		24	17	0	26	TSTM	
	26-13	5-19	Pump		24	25	0	10	TSTM	
	26-16	5-21	Pump		24	12	0	14	TSTM	
AFTER 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 May 23, 1961 Great Western Drilling Company  
Company  
 By O.H. Crews O.H. Crews  
Administrative Coordinator  
Title

R-32-E

R-31-E

R-32-E

R-31-E

T-13-S

T-14-S

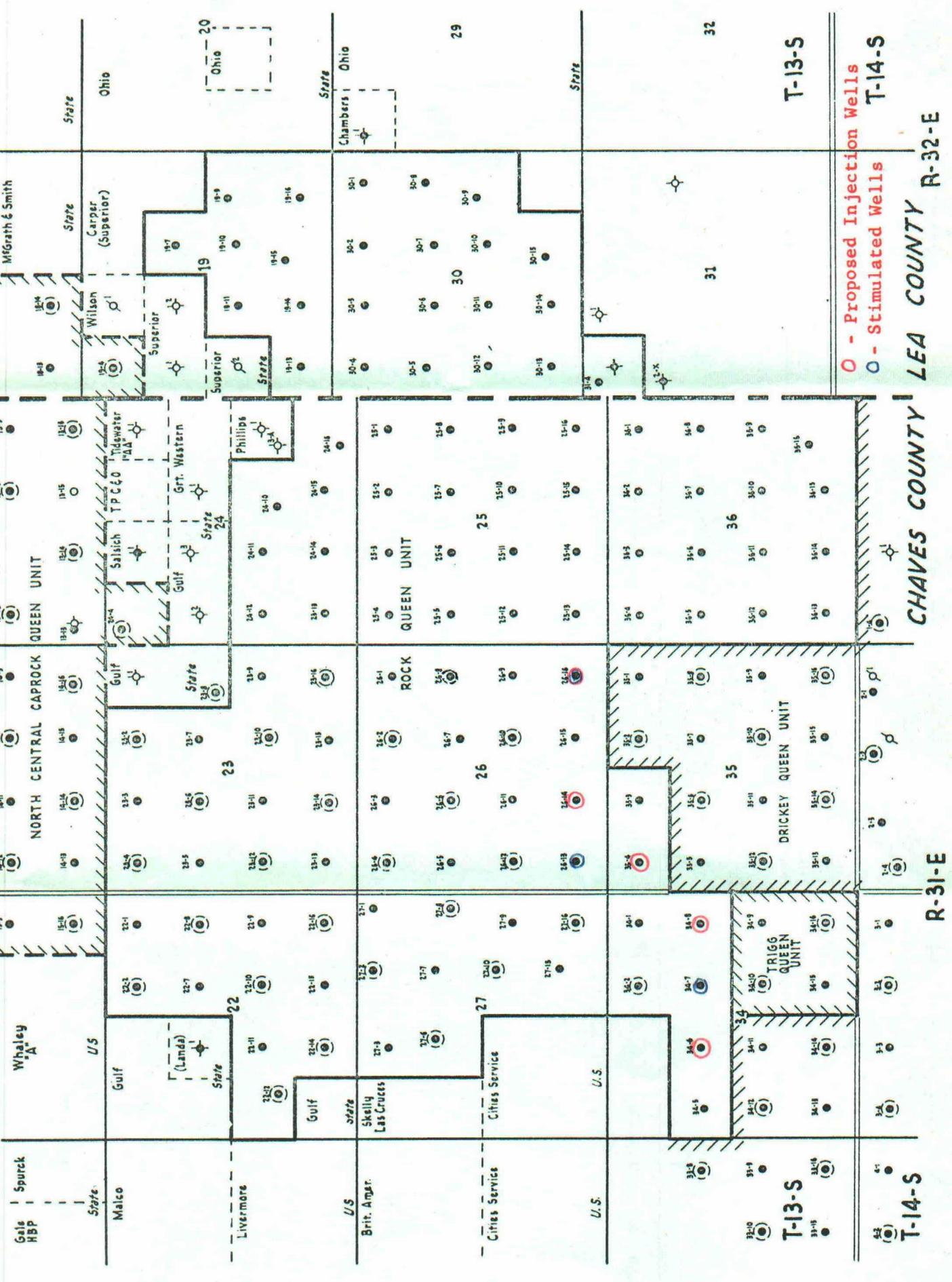
T-13-S

T-14-S

O - Proposed Injection Wells  
● - Stimulated Wells

CHAVES COUNTY

LEA COUNTY





R. C. TUCKER, PRES.

May 29, 1961

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

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

Attn: Mr. J. E. Kapteina

Re: Expansion of the Rock Queen Unit  
as per Application dated May 23, 1961.

Gentlemen:

Enclosed please find the required properly executed  
waivers for Great Western Drilling Company's application of May 23,  
1961.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By *[Signature]*

OHC:tr





May 23, 1961

R. C. TUCKER, PRES.

Great Western Drilling Company,  
Box 1659,  
Midland, Texas

PHONE MU 2-5241  
ADDRESS REPLY TO:  
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>
26-14	SE/4 of SW/4 of Sec. 26, T-13-S, R-31-E
26-16	SE/4 of SE/4 of Sec. 26, T-13-S, R-31-E
34-6	SE/4 of NW/4 of Sec. 34, T-13-S, R-31-E
34-8	SE/4 of NE/4 of Sec. 34, T-13-S, R-31-E
35-4	NW/4 of NW/4 of Sec. 35, T-13-S, R-31-E

as requested in your application of May 23, 1961.

GREAT WESTERN DRILLING COMPANY

By *Officer*

Date *May 29, 1961*



GREAT WESTERN DRILLING CO.  
MIDLAND, TEXAS

May 23, 1961

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 *ORnew*

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>
26-14	SE/4 of SW/4 of Sec. 26, T-13-S, R-31-E
26-16	SE/4 of SE/4 of Sec. 26, T-13-S, R-31-E
34-6	SE/4 of NW/4 of Sec. 34, T-13-S, R-31-E
34-8	SE/4 of NE/4 of Sec. 34, T-13-S, R-31-E
35-4	NW/4 of NW/4 of Sec. 35, T-13-S, R-31-E

as requested in your application of May 23, 1961.

JOHN TRIGG

By *John I. Trigg*

Date 5-25-61



May 23, 1961

R. C. TUCKER, PRES.

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

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

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 *Ohlman*

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>
26-14	SE/4 of SW/4 of Sec. 26, T-13-S, R-31-E
26-16	SE/4 of SE/4 of Sec. 26, T-13-S, R-31-E
34-6	SE/4 of NW/4 of Sec. 34, T-13-S, R-31-E
34-8	SE/4 of NE/4 of Sec. 34, T-13-S, R-31-E
Well 35-4	NW/4 of NW/4 of Sec. 35, T-13-S, R-31-E

as requested in your application of May 23, 1961.

PETROLEUM  
CITIES SERVICE COMPANY

By *Ohlman*

Date May 26, 1961





STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS  
STATE ENGINEER

May 31, 1961

ADDRESS CORRESPONDENCE TO:  
STATE CAPITOL  
SANTA FE, N. M.

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

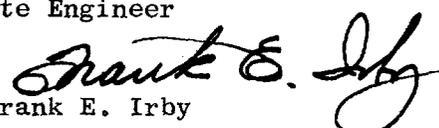
Dear Mr. Porter:

Reference is made to the application of Great Western Drilling Company dated May 23, 1961 which seeks administrative approval for the conversion of Wells 26-14, 26-16, 34-6, 34-8 and 35-4 of the Rock Queen Unit, Lea and Chaves Counties, New Mexico to water injection.

In view of the fact that injection will be through 2" 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.

Very truly yours,

S. E. Reynolds  
State Engineer

By:   
Frank E. Irby  
Chief  
Water Rights Division

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