



WFX - 106
See State file 1

May 16, 1962

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 25-14, 25-16, 36-4,
36-2 and 19-14 to Water Injection, Rock
Queen Unit, Lea and Chaves Counties, New
Mexico.

Gentlemen:

As provided in Commission Order R-1541, Great Western Drilling Company, as operator of the Rock Queen Unit requests administrative approval for conversion of Unit wells 25-14, 25-16, 36-4, 36-2 and 19-14 to water injection.

- Well 25-14 is in the SE/4 of SW/4 of Sec. 25, T-13-S,
R-31-E, Chaves County
- Well 25-16 is in the SE/4 of SE/4 of Sec. 25, T-13-S,
R-31-E, Chaves County
- Well 36-4 is in the NW/4 of NW/4 of Sec. 36, T-13-S,
R-31-E, Chaves County
- Well 36-2 is in the NW/4 of NE/4 of Sec. 36, T-13-S,
R-31-E, Chaves County
- Well 19-14 is in the SE/4 of SW/4 of Sec. 19, T-13-S,
R-32-E, Lea County.

Well 25-13 offsets Wells 25-14 and 36-4. During April the production of 25-13 averaged 6 barrels per day. On tests in May, production of this well is 12 barrels per day.

Well 25-15 averaged 2 barrels per day in April. During May tests, it's production has measured 8 barrels per day. Well 25-15 is an offset to Wells 25-14, 36-2 and 25-16. The increase of the above two wells is due to the waterflood from the North.

Well 19-13 increased in production from 3 barrels per day in April to 7 barrels per day in May. This well is a direct offset to Well 19-14. This increase is due to the waterflood from the West.

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 25-14, 25-16, 36-4, 36-2 and 19-14 are converted to water injection at this time.



May 16, 1962

Re: Administrative Approval

Proposed injection will be down 2" tubing under a packer set at about 3000'. Attached to this application are: The C-116 of Wells 25-13, 25-15 and 19-13, before and after stimulation; a plat of the area showing producing, water injection and proposed water injection wells; and offset operators.

Waivers from offset operators are being requested at this time.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By O. H. Crews
O. H. Crews

OHC:tr
Enclosures

NEW MEXICO OIL CONSERVATION COMMISSION

1962 MAY 17 AM 10 47

GAS-OIL RATIO REPORT

OPERATOR Great Western Drilling Company POOL Caprock Queen
 ADDRESS Box 1659, Midland, Texas MONTH OF April, 1962, 19____
 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 2	25-13	4-24	P		24	4	0	6	18	2000
	25-15	4-25	P		24	2	0	5	TSTM	
Tract 41	19-13	4-30	P		24	3*	0	3	TSTM	
* Well 19-13 has had an allowable request.										
Tests before stimulation by waterflood										

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 16, 1962

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, 1962, 19____
 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 2	25-13	5-11	P		24	4	0	12	TSTM	
	25-15	5-14	P		24	2	0	8	TSTM	
Tract 41	19-13	5-15	P		24	3*	0	7	TSTM	
* Request sent in for allowable										
Tests after Stimulation by Waterflood										

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.

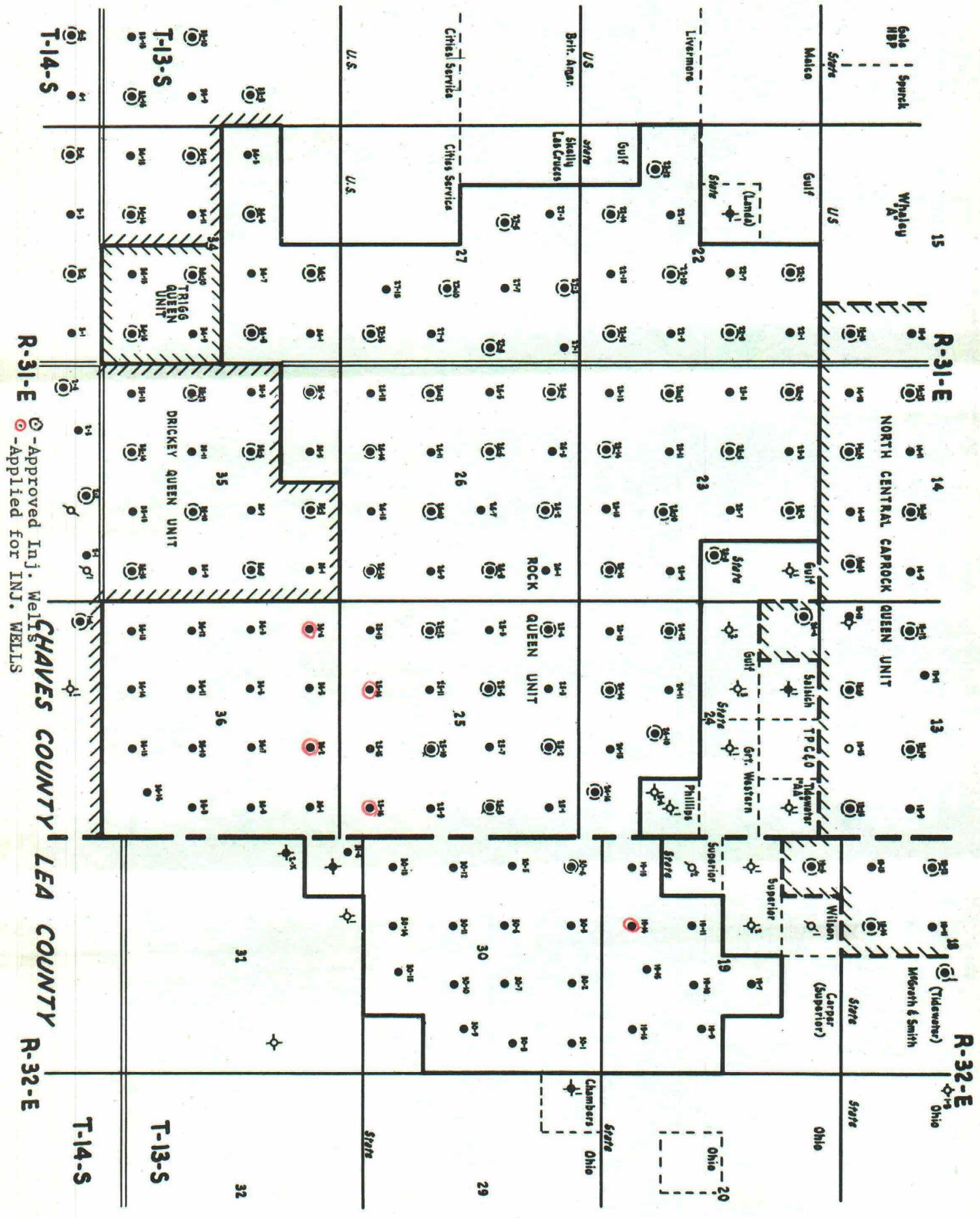
Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission. In accordance with Rule 301 and Appropriate Pool Rules.

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

Date May 16, 1962 Great Western Drilling Company
Company

By O.H. Crews O.H. Crews

Administrative Coordinator
Title



R-31-E

R-32-E

NORTH CENTRAL CAPROCK QUEEN UNIT

TRIGG QUEEN UNIT

DRICKEY QUEEN UNIT

QUEEN UNIT

ROCK

T-14-S

T-13-S

T-14-S

T-13-S

R-31-E

R-32-E

⊙ - Approved Inj. Wells
 ⊙ - Applied for Inj. Wells

CHAVES COUNTY LEA COUNTY

Gale HBP Spruch

Whaley A

(Tidewater) McCreth & Smith

Ohio

Malco

Gulf

U.S.

Gulf

Gulf

Gulf

Gulf

Superior

Superior

Superior

Ohio

Livermore

Gulf

U.S.

Gulf

Gulf

Gulf

Gulf

Phillips

Superior

Superior

Ohio

Brit. Amer.

Skelly Las Cruces

U.S.

Citrus Service

Citrus Service

U.S.



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

May 21, 1962

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 16, 1962 which seeks administrative approval for the conversion of wells 25-14, 25-16, 36-2, 36-4 and 19-14 of the Rock Queen Unit, Lea and Chaves Counties, New Mexico, to water injection.

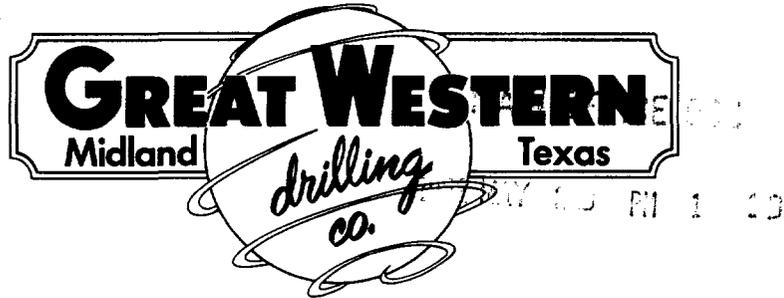
In view of the fact that injection will be down 2 inch tubing under packer set well below the top of the cement outside of the 5½ inch casing, it is concluded that a threat of contamination to any fresh waters which may exist in the area is not likely to occur. Therefore, this office offers no objection to the granting of this application.

Yours truly,

S. E. Reynolds
State Engineer

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

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



May 22, 1962

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. Kapteina

Gentlemen:

Enclosed please find all required waivers on Great Western Drilling Company requested expansion of the Rock Queen Unit as of May 16, 1962.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By *E. H. [Signature]*

OHC:tr





MAIL OFFICE 000

1962 MAY 23 PM 1:19

May 16, 1962

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 *O. H. Lewis*

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>
25-14	SE/4 of SW/4 of Sec. 25, T-13-S, R-31-E, Chaves County
25-16	SE/4 of SE/4 of Sec. 25, T-13-S, R-31-E, Chaves County
36-4	NW/4 of NW/4 of Sec. 36, T-13-S, R-31-E, Chaves County
36-2	NW/4 of NE/4 of Sec. 36, T-13-S, R-31-E, Chaves County
19-14	SE/4 of SW/4 of Sec. 19, T-13-S, R-32-E, Lea County

as requested in your application of May 16, 1962.

GREAT WESTERN DRILLING COMPANY

By *O. H. Lewis*

Date *May 22, 1962*





RECEIVED
MAY 16 1962
MIDLAND TEXAS

May 16, 1962

R. C. TUCKER, PRES.

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

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 *Allen*

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>
25-14	SE/4 of SW/4 of Sec. 25, T-13-S, R-31-E, Chaves County
25-16	SE/4 of SE/4 of Sec. 25, T-13-S, R-31-E, Chaves County
36-4	NW/4 of NW/4 of Sec. 36, T-13-S, R-31-E, Chaves County
36-2	NW/4 of NE/4 of Sec. 36, T-13-S, R-31-E, Chaves County
19-14	SE/4 of SW/4 of Sec. 19, T-13-S, R-32-E, Lea County

as requested in your application of May 16, 1962.

CITIES SERVICE PETROLEUM COMPANY

By *R. C. Tucker*

Date *May 22 1962*



GREAT WESTERN DRILLING CO.
MIDLAND, TEXAS

May 16, 1962

John Trigg,
Box 5629,
Roswell, 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 *W. Lewis*

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>
25-14	SE/4 of SW/4 of Sec. 25, T-13-S, R-31-E, Chaves County
25-16	SE/4 of SE/4 of Sec. 25, T-13-S, R-31-E, Chaves County
36-4	NW/4 of NW/4 of Sec. 36, T-13-S, R-31-E, Chaves County
36-2	NW/4 of NE/4 of Sec. 36, T-13-S, R-31-E, Chaves County
19-14	SE/4 of SW/4 of Sec. 19, T-13-S, R-32-E, Lea County

as requested in your application of May 16, 1962.

JOHN TRIGG

By *John I. Trigg*

Date *5-17-62*