



November 3, 1961

WEX-95

date Nov 21

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 Wells 24-10, 24-16 and
25-2 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 24-10, 24-16 and 25-2 to water injection.

Well 24-10 is in the NW/4 of SE/4 of Sec. 24, T-13-S, R-31-E,

Well 24-16 is in the SE/4 of SE/4 of Sec. 24, T-13-S, R-31-E,

Well 25-2 is in the NW/4 of NE/4 of Sec. 25, T-13-S, R-31-E,

all in Chaves County, New Mexico.

Well 24-15 is a direct offset to each of the above wells. During September, 1961, Well 24-15 averaged five (5) barrels of oil per day on four tests. As of October 28, 1961, Well 24-15 has increased in production to twelve (12) barrels per day without a noticeable increase in gas. This is due to the stimulation from the waterflood to the West of this well.

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 24-10, 24-16 and 25-2 are converted to water 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 Well 24-15, before and after stimulation; a plat of the area showing producing, 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 G. H. Lewis

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 September, 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 Tract 27	24-15	9-21	Pump		24	18	0	4	TSTM	
	24-15	9-22	Pump		24	18	0	5	TSTM	
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 November 2, 1961

Great Western Drilling Company
Company

By O.H. Crews O.H. Crews

Administrative Coordinator
Title

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

November 10, 1961

Great Western Drilling Company
Box 1659
Midland, Texas

Gentlemen:

Enclosed herewith please find Administrative Order WFX No. 95 authorizing conversion of three wells to water injection wells in the Rock Queen Unit Water Flood Project in the Caprock-Queen Pool, Lea and Chaves Counties, New Mexico.

Very truly yours,

A. L. PORTER, Jr.,
Secretary-Director

ALP/JEK/og

cc: Oil Conservation Commission - Hobbs, N. M.
Oil Conservation Commission - Artesia, N. M.
New Mexico Engineer Office - Santa Fe, N. M.

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NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR Great Western Drilling Company POOL Caprock Queen
 ADDRESS Box 1659, Midland, Texas MONTH OF October, 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 Tract 27	24-15	10-28	Pump		24	18	0	12	TSTM	
Test 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 November 2, 1961

Great Western Drilling Company
Company

By O.H.Crews

Administrative Coordinator
Title



November 7, 1961

R. C. TUCKER, PRES.

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

Gentlemen:

Enclosed please find required waivers for the expansion of the Rock Queen Unit as requested by Great Western Drilling Company, November 3, 1961.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By *E. H. Lewis*

OHC:tr





November 3, 1961

R. C. TUCKER, PRES.

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

Cities Service Petroleum 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 *Ed 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>
24-10	NW/4 of SE/4 Sec. 24, T-13-S, R-31-E
24-16	SE/4 of SE/4 Sec. 24, T-13-S, R-31-E
25-2	NW/4 of NE/4 Sec. 25, T-13-S, R-31-E

as requested in your application of November 3, 1961.

CITIES SERVICE PETROLEUM COMPANY

By *R. C. Tucker*

Date 11-6-61



GREAT WESTERN DRILLING CO.
MIDLAND, TEXAS

November 3, 1961

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 *John Trigg*

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>
24-10	NW/4 of SE/4 Sec. 24, T-13-S, R-31-E,
24-16	SE/4 of SE/4 Sec. 24, T-13-S, R-31-E,
25-2	NW/4 of NE/4 Sec. 25, T-13-S, R-31-E

as requested in your application of November 3, 1961.

JOHN TRIGG

By *John T. Trigg*

Date *11-6-61*



November 3, 1961

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 *Chas. J. Jones*

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>
24-10	NW/4 of SE/4 Sec. 24, T-13-S, R-31-E
24-16	SE/4 of SE/4 Sec. 24, T-13-S, R-31-E
25-2	NW/4 of NE/4 Sec. 25, T-13-S, R-31-E

as requested in your application of November 3, 1961.

GREAT WESTERN DRILLING COMPANY

By *Chas. J. Jones*

Date *Nov 6, 1961*





STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

November 7, 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 November 3, 1961 which seeks administrative approval for the conversion of wells 24-10, 24-16 and 25-2 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.

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