



WIX-90
Antony Wood
New Mexico

September 15, 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 24-14, 25-6 and
25-12 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 24-14, 25-6 and 25-12 to water injection.

Well 24-14 is in the SE/4 of SW/4 of Sec. 24, T-13-S, R-31-E,

Well 25-6 is in the SE/4 of NW/4 of Sec. 25, T-13-S, R-31-E,

Well 25-12 is in the NW/4 of SW/4 of Sec. 25, T-13-S, R-31-E,

all in Chaves County, New Mexico.

Well 24-13 is a direct offset to Well 24-14. During August, 1961, Well 24-13 averaged 2 barrels of oil per day. On tests September 7th & 8th, Well 24-13 produced 8 and 10 barrels of oil per day respectively. Well 25-5 is a direct offset to wells 25-6 and 25-12. Well 25-5 averaged 4 barrels per day during August and on tests September 10th & 11th, this well produced 9 barrels of oil per day. Both of the above increases are due to stimulation from the waterflood of this unit.

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 24-14, 25-6 and 25-12 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 Wells 24-13 and 25-5 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 *[Signature]*

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 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 10	24-13	8-10	P		24	6	0	2	TSTM	
Tract 43	25-5	8-14	P		24	12	0	4	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 September 15, 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 September, 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 10	24-13	9-8	Pump		24	6	0	10	TSTM	
Tract 43	25-5	9-11	Pump		24	12	0	9	TSTM	
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 September 15, 1961 Great Western Drilling Company
Company
 By O.H. Crews O.H. Crews
Administrative Coordinator
Title



STATE OF NEW MEXICO
STATE ENGINEER OFFICE
SANTA FE

S. E. REYNOLDS
STATE ENGINEER

September 18, 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 September 15, 1961 which seeks administrative approval for the conversation of wells 24-14, 25-6 and 25-12 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

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

By: 
Frank E. Irby
Chief
Water Rights Division



September 26, 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

Attn: Mr. J. E. Kapteina

Gentlemen:

Enclosed please find required waivers for the expansion request of the Great Western Drilling Company Rock Queen Unit as of September 15, 1961.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By *[Signature]*

OHC:tr



GREAT WESTERN DRILLING CO.
MIDLAND, TEXAS

September 15, 1951

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 *W. 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>
24-14	SE/4 of SW/4 Sec. 24, T-13-S, R-31-E
25-6	SE/4 of NW/4 Sec. 25, T-13-S, R-31-E
25-12	NW/4 of SW/4 Sec. 25, T-13-S, R-31-E

as requested in your application of September 15, 1961.

JOHN TRIGG

By *John T. Trigg*

Date 9-23-61

GREAT WESTERN DRILLING CO.
MIDLAND, TEXAS

September 15, 1961

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 CH Green

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>
24-14	SE/4 of SW/4 Sec. 24, T-13-S, R-31-E
25-6	SE/4 of NW/4 Sec. 25, T-13-S, R-31-E
25-12	NW/4 of SW/4 Sec. 25, T-13-S, R-31-E

as requested in your application of September 15, 1961.

CITIES SERVICE OIL COMPANY

By W. J. Davis

Date Sept 20 - 61



September 15, 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 *Chew*

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>
24-14	SE/4 of SW/4 Sec. 24, T-13-S, R-31-E
25-6	SE/4 of NW/4 Sec. 25, T-13-S, R-31-E
25-12	NW/4 of SW/4 of Sec. 25, T-13-S, R-31-E

as requested in your application of September 15, 1961.

GREAT WESTERN DRILLING COMPANY

By *Chew*

Date *Sept 25, 1961*



OIL CONSERVATION COMMISSION

BOX 2045

HOBBS, NEW MEXICO

DATE Oct. 2, 1961

OIL CONSERVATION COMMISSION
BOX 371
SANTA FE, NEW MEXICO

Re: Proposed NSP.....

Proposed NSU.....

Proposed NFO.....

Proposed DC.....

WFX 90

Gentlemen:

I have examined the application dated _____
for the Gr. Western Drlg. Co. Rock Queen Unit #24-14, #25-6 & #25-12 Caprock Queen
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

- O.K.---E.F.E.
- O.K.---J.W.R.
- _____
- _____
- _____
- _____

Yours very truly,

OIL CONSERVATION COMMISSION

