



WFX-71  
Waiting Period  
New York Feb 6

January 19, 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 Unit Well 26-2 to Water  
Injection, Rock Queen Unit, Lea and Chaves  
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 conversion of Unit Well No. 26-2 to a water injection well. Well 26-2 is in the NW/4 of NE/4 of Sec. 26, T-13-S, R-31-E, Chaves County, New Mexico.

Well 26-3, in the Rock Queen Unit is a direct offset to Well No. 26-2. Since January 10, 1961 stimulation by water injection has been indicated. Tests in November, 1960 were 17 barrels per day, a test January 17th, 1961 measured 34 barrels in 24 hours by pump.

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 Well 26-2 is converted to a water injection well at this time. Injection is proposed down 2" tubing under a packer set at about 3000'.

Attached to this application are: The C-116 of Well 26-3, before and after stimulation; a plat of the area showing producing, water injection, proposed water injection wells and the offset operators.

Waivers from offset operators are being requested at this time.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By JH Green

OHC:tr  
Encl.



## NEW MEXICO OIL CONSERVATION COMMISSION

## GAS-OIL RATIO REPORT

OPERATOR Great Western Drilling Company POOL Caprock Queen  
ADDRESS Box 1659, Midland, Texas MONTH OF January, 1961  
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 15	26-3	1-17	Pump		24	20	0	34	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 January 19, 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 December, 19 60  
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 15	26-3	12-7	Pump		24	20	0	17	5.1	300
			Test 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 January 19, 1961

Great Western Drilling Company  
Company

By O.H. Crews O.H. Crews

Administrative Coordinator  
Title



R-31-E

R-32-E

T-13-S

T-13-S

EXHIBIT "A"  
ROCK QUEEN UNIT  
CHAVES & LEA COUNTIES, NEW MEXICO

- - INJECTION WELL
- ▨ - UNIT AREA BOUNDARY
- ② - TRACT NUMBER
- - Stimulated Well
- - Proposed Injection Well

LEA  
CHAVES

E

JOHN  
TRIGG

C<sub>I</sub>T

R

S

SE

G.W.D. CO.



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS  
STATE ENGINEER

January 20, 1961

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 dated January 19, 1961 which seeks administrative approval for the conversion of Well 26-2, 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 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

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

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



R. C. TUCKER, PRES.

January 25, 1961

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:

Please find enclosed all required waivers, properly  
executed, for expansion of the Rock Queen Unit by conversion of  
Well 26-2 to injection.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By *O. H. New*

OHC:tr  
Enclosures





January 19, 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 *OK*

OHC:tr

We have no objection to the expansion of the Rock Queen Unit operations by reason of the conversion of the following well to a water injection well:

Unit Well No.

Location

26-2

NW/4 of NE/4 of Sec. 26, T-13-S, R-31-E

as requested in your application of January 19, 1961.

CITIES SERVICE OIL COMPANY

By *OK*

Date *Jan 21 61*





January 19, 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 Officer

OHC:tr

We have no objection to the expansion of the Rock Queen Unit operations by reason of the conversion of the following well to a water injection well:

Unit Well No.

Location

26-2

NW/4 of NE/4 of Sec. 26, T-13-S, R-31-E

as requested in your application of January 19, 1961.

GREAT WESTERN DRILLING COMPANY

By Officer

Date 1-24-61





GREAT WESTERN DRILLING CO.  
MIDLAND, TEXAS

RECEIVED  
JAN 20 1961  
MIDLAND, TEXAS

January 19, 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 *John S. Trigg*

OHC:tr

We have no objection to the expansion of the Rock Queen Unit operations by reason of the conversion of the following well to a water injection well:

Unit Well No.

Location

26-2

NW/4 of NE/4 of Sec. 26, T-13-S, R-31-E

as requested in your application of January 19, 1961.

JOHN TRIGG

By

Date *John S. Trigg*  
January 20, 1961