



WFX-99

Due Date Jan 13

January 5, 1962

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 25-8, 25-10 and
30-4 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 25-8, 25-10 and 30-4 to water injection.

Well 25-8 is in the SE/4 of NE/4 of Sec. 25, T-13-S,
R-31-E, Chaves County, New Mexico

Well 25-10 is in the NW/4 of SE/4 of Sec. 25, T-13-S,
R-31-E, Chaves County, New Mexico

Well 30-4 is in the NW/4 of NW/4 of Sec. 30, T-13-S,
R-32-E, Lea County, New Mexico

Well 25-1 is a direct offset to Wells 25-8 and 30-4. During December, 1961 tests show that Well 25-1 produced 28 barrels of oil per day. Tests in late November, 1961 gave Well 25-1 a production of 6 barrels per day. Well 25-7 is a direct offset to Wells 25-8 and 25-10. Well 25-7 tested 21 barrels per day in December while in November, 1961 it produced 13 barrels per day. The increase in production on both of the above wells is due to stimulation from the waterflood to the West of these wells.

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 25-8, 25-10 and 30-4 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 25-1 and 25-7, 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 *Chas. Tucker*

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 November, 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 1	25-1	11-26	P		24	7	0	6	TSTM	
Tract 43	25-7	11-29	P		24	12	0	13	6.5	500
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 January 5, 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 December, 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 1	25-1	12-5	P		24	7	0	28	5.6	200
Tract 43	25-7	12-5	P		24	12	0	21	6.3	300
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 January 5, 1962

Great Western Drilling Company
Company

By *O.H. Crews* O.H. Crews

Administrative Coordinator
Title



January 9, 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 are all waivers required for the expansion of
the Rock Queen Unit as requested in the application of Great Western
Drilling Company January 5, 1962.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By *[Signature]*

OHC:tr
Enclosures



GREAT WESTERN DRILLING CO.
MIDLAND, TEXAS

January 5, 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. K-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 *[Signature]*

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>
25-8	SE/4 of NE/4 Sec. 25, T-13-S, R-31-E
25-10	NW/4 of SE/4 Sec. 25, T-13-S, R-31-E
30-4	NW/4 of NW/4 Sec. 30, T-13-S, R-32-E

as requested in your application of January 5, 1962.

JOHN TRIGG

By *[Signature]*

Date 1-8-62



January 5, 1962

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 *[Signature]*

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>
25-8	SE/4 of NE/4 Sec. 25, T-13-S, R-31-E
25-10	NW/4 of SE/4 Sec. 25, T-13-S, R-31-E
30-4	NW/4 of NW/4 Sec. 30, T-13-S, R-32-E

as requested in your application of January 5, 1962.

CITIES SERVICE PETROLEUM COMPANY

By *[Signature]*

Date 1/8/62





January 5, 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 *E. H. New*

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>
25-8	SE/4 of NE/4 Sec. 25, T-13-S, R-31-E
25-10	NW/4 of SE/4 Sec. 25, T-13-S, R-31-E
30-4	NW/4 of NW/4 Sec. 30, T-13-S, R-32-E

as requested in your application of January 5, 1962.

GREAT WESTERN DRILLING COMPANY

By *E. H. New*

Date *Jan 8, 1962*





TRAIN OFFICE OCC

1962 JAN 12 12:25
STATE OF NEW MEXICO

STATE ENGINEER OFFICE
SANTA FE

S. E. REYNOLDS
STATE ENGINEER

January 10, 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 January 5, 1962 which seeks administrative approval for the conversion of wells 25-8, 25-10 and 30-4 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.

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

OIL CONSERVATION COMMISSION

BOX 2045

HOBBS, NEW MEXICO

DATE 1/10/62

OIL CONSERVATION COMMISSION
BOX 371
SANTA FE, NEW MEXICO

Re: Proposed NSP _____

Proposed NSL _____

Proposed NFC _____

Proposed DC _____

WFX 99

Gentlemen:

I have examined the application dated 1/8/62

for the Great Western Drlg. Co. Rock Queen Unit
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

O.K.----E.F.E.

O.K.----J.W.R.

1962 JAN 15 AM 8:59
MAIN OFFICE OCC

Yours very truly,

OIL CONSERVATION COMMISSION