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October 19, 1960

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 23-2 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 both the North Central Caprock Queen Unit and Rock Queen Unit, requests administrative approval for the conversion of the following unit well:

<u>Unit Well No.</u>	<u>Location</u>
Rock Queen Unit 23-2	NW/4 of NE/4 of Sec. 23, T-13-S, R-31-E

Well No. 14-15, in the North Central Caprock Queen Unit is a direct north offset to the above well. Well 14-15 has received response to injection since the first week in October. As of October 1, 1960, the well was producing 19 barrels per day and on a test October 17, 1960, the production had reached 65 barrels per day.

We respectfully submit that the ultimate recoverable oil from both the North Central Caprock Queen Unit and the Rock Queen Unit reservoirs will be decreased and that waste will occur due to an unbalanced condition in the pattern flooding system unless Well 23-2 is converted to water injection at this time.

Attached to this application are: The C-116 of Great Western Drilling Company Well No. 14-15, before and after stimulation; a plat of the area showing all producing, water injection and the proposed water injection well; and the offset operators.

Waivers from the offset operators are being requested at this time.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By *OHlms*

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 October, 1960
 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	
North Central Caprock Queen Unit Tract 21	14-15	10-17	Pump		24	19	0	65	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 October 19, 1960

Great Western Drilling Company
Company

By 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 October, 19 60
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							Water Bbls.	Oil Bbls.	Gas MCF	
North Central Caprock Queen Unit Tract 21	14-15	10-1	Pump		24	19	0	19	9.5	500
Test 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 October 19, 1960

Great Western Drilling Company
Company

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

Administrative Coordinator
Title

R-31-E

R-32-E

GREAT WESTERN DRILG. CO.

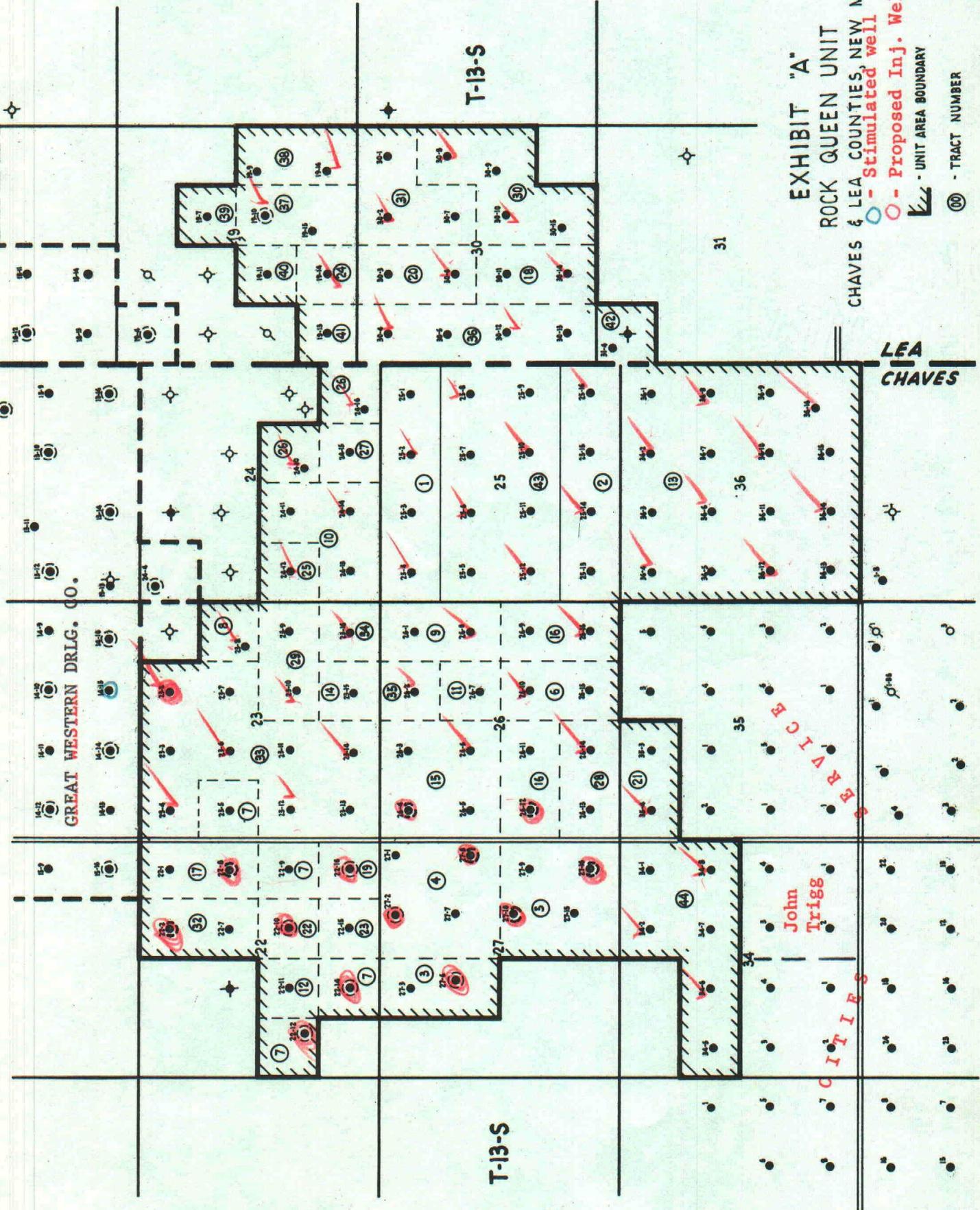


EXHIBIT "A"
 ROCK QUEEN UNIT
 CHAVES & LEA COUNTIES, NEW MEXICO

○ - Stimulated well
○ - Proposed Inj. Well
 - UNIT AREA BOUNDARY
00 - TRACT NUMBER

LEA CHAVES

John Trigg

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T-13-S

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RECEIVED 10/24/60

OCT 24 1960 AM 10 15 STATE OF NEW MEXICO

STATE ENGINEER OFFICE
SANTA FE

S. E. REYNOLDS
STATE ENGINEER

October 24, 1960

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 to convert Well 23-2, Rock Queen Unit, Chaves County, to water injection well.

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.

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



R. C. TUCKER, PRES.

October 26, 1960

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 waivers required for expansion of the Rock Queen Unit through administrative approval of Converting Well No. 23-2 from a unit well to water injection.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By *O. H. Lewis*

OHC:TR





October 19, 1960

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 *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 well to water injection well:

<u>Unit Well No.</u>	<u>Location</u>
23-2	NW/4 of NE/4 of Sec. 23, T-13-S, R-31-E

as requested in your application of October 19, 1960.

GREAT WESTERN DRILLING COMPANY

By *O. H. Lewis*

Date *Oct 26, 1960*





R. C. TUCKER, PRES.

October 19, 1960

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

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 *Williams*

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 water injection well:

Unit Well No.

Location

23-2

NW/4 of NE/4 of Sec. 23, T-13-S, R-31-E

as requested in your application of October 19, 1960.

JOHN TRIGG

By *John H. Trigg*

Date *Oct 20, 1960*





October 19, 1960

R. C. TUCKER, PRES.

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

Cities Service Oil Company,
Box 97
Hobbs, New Mexico

Attn: Mr. Geo. Geyer

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 well to water injection well:

Unit Well No.

Location

23-2

NW/4 of NE/4 of Sec. 23, T-13-S, R-31-E

as requested in your application of October 19, 1960.

CITIES SERVICE OIL COMPANY

By *R. T. Gail*

Date *10/25/60*

