



WFX- 70
Hatchybird
New Date Feb 2

January 16, 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 34-2 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 Well No. 34-2 to water injection. Well 34-2 is in the NW/4 of NE/4 of Sec. 34, T-13-S, R-31-E, Chaves County, New Mexico.

Well 27-15 in the Rock Queen Unit, is a direct offset to Well No. 34-2. Since January 1, 1961, well 27-15 has been stimulated by water injection. This well produced 3 barrels per day on tests early in December. A test as of January 4, 1961 measured 81 barrels of oil by pump in 24 hours.

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 34-2 is converted to a water injection well at this time. Water injection is proposed down 2" tubing under a packer set at about 3000'.

Attached to this application are: The C-116 of Well 27-15, before and after stimulation; a plat of the area showing producing, water injection and proposed water injection wells; and the offset operators.

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

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By *O. H. Lewis*
Administrative Coordinator

OHC:tr
Encl.



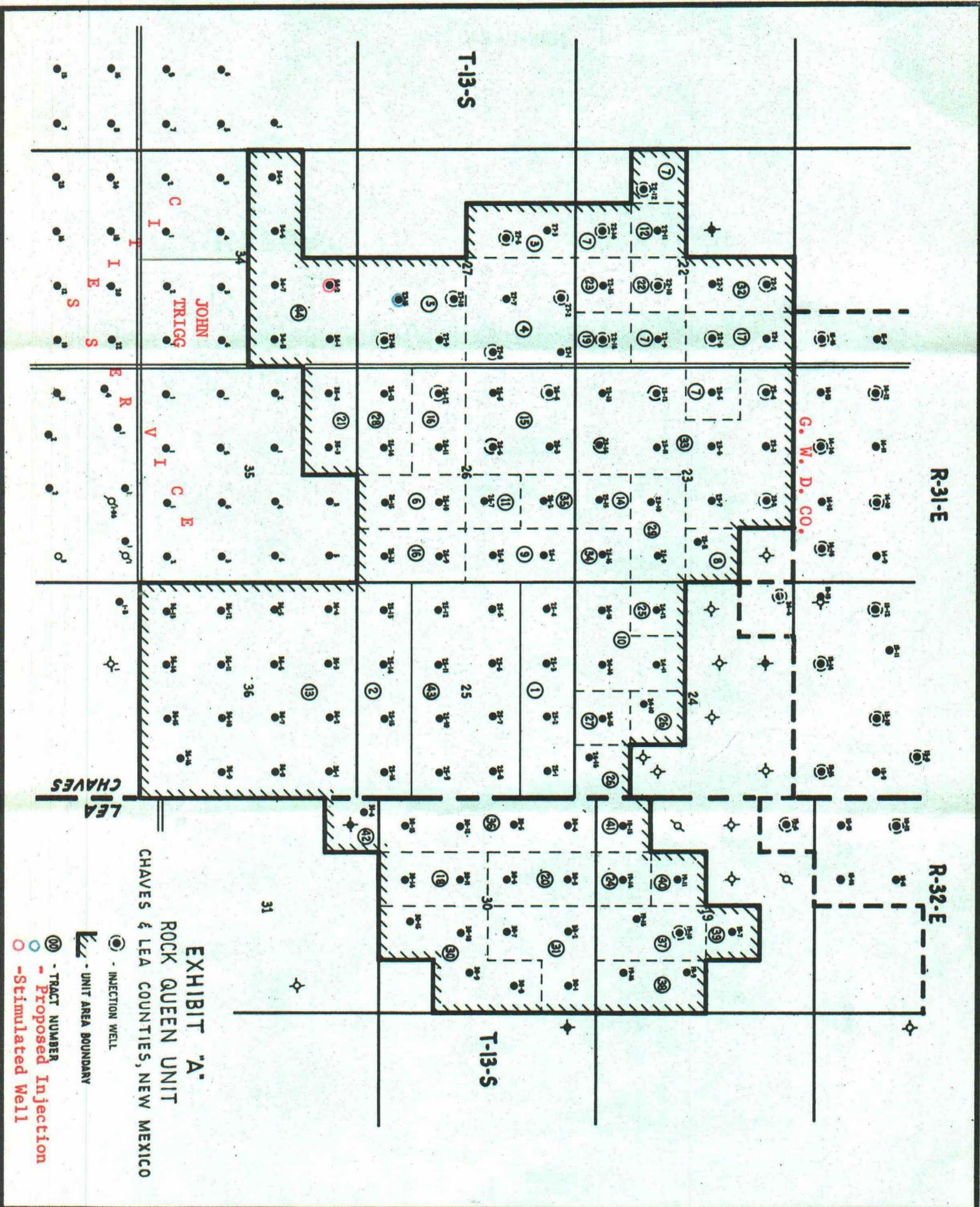


EXHIBIT "A"
ROCK QUEEN UNIT
 CHAVES & LEA COUNTIES, NEW MEXICO

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

R-31-E

R-32-E

T-13-S

T-13-S

G.W.D. CO.

JOHN TRIGG

LEA CHAVES

C I I E S

V I C E

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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 December, 19 60
 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 5	27-15	12-2	Pump		24	3	0	2.9	TSTM	
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 January 13, 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 January, 1961
 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 5	27-15	1-4	Pump		24	80	0	81	TSTM	
Test After stimulation by Waterflood Allowable increased January 1, 1961										

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 13, 1961

Great Western Drilling Company
Company

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

Administrative Coordinator
Title



R. C. TUCKER, PRES.

January 16, 1961

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. Tucker*

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:

<u>Unit Well No.</u>	<u>Location</u>
34-2	NW/4 of NE/4 of Sec. 34, T-13-S, R-31-E

as requested in your application of January 16, 1961.

GREAT WESTERN DRILLING COMPANY

By *O. H. Tucker*

Date 1-24-61



GREAT WESTERN DRILLING CO.
MIDLAND, TEXAS

January 16, 1961

John Trigg
Box 5629,
Roswell, N. Mex.

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 *O'Brien*

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

34-2

NW/4 of NE/4 of Sec. 34, T-13-S, R-31-E

as requested in your application of January 16, 1961.

JOHN TRIGG

By

Date

John T. Trigg
1-19-61



R. C. TUCKER, PRES.

January 16, 1961

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 *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 a water injection well:

Unit Well No.

Location

34-2

NW/4 of NE/4 of Sec. 34, T-13-S, R-31-E

as requested in your application of January 16, 1961.

Petroleum Company
CITIES SERVICE OIL COMPANY

By *R. G.*

Date 1/23/61





STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

January 18, 1961

S. E. REYNOLDS
STATE ENGINEER

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

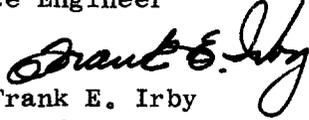
Dear Mr. Porter:

Reference is made to the application of Great Western Drilling Company dated January 16, 1961 which seeks administrative approval for the conversion of Well 34-2, 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

By: 
Frank E. Irby
Chief
Water Rights Division

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