



WEX-168
Due Feb 18

January 31, 1964

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 3 Unit
Wells to Water Injection Wells,
Rock Queen Unit

Gentlemen:

As provided in Order No. R-1541, Great Western Drilling Company as operator of the Rock Queen Unit, request administrative approval for conversion of the following Unit wells to water injection wells:

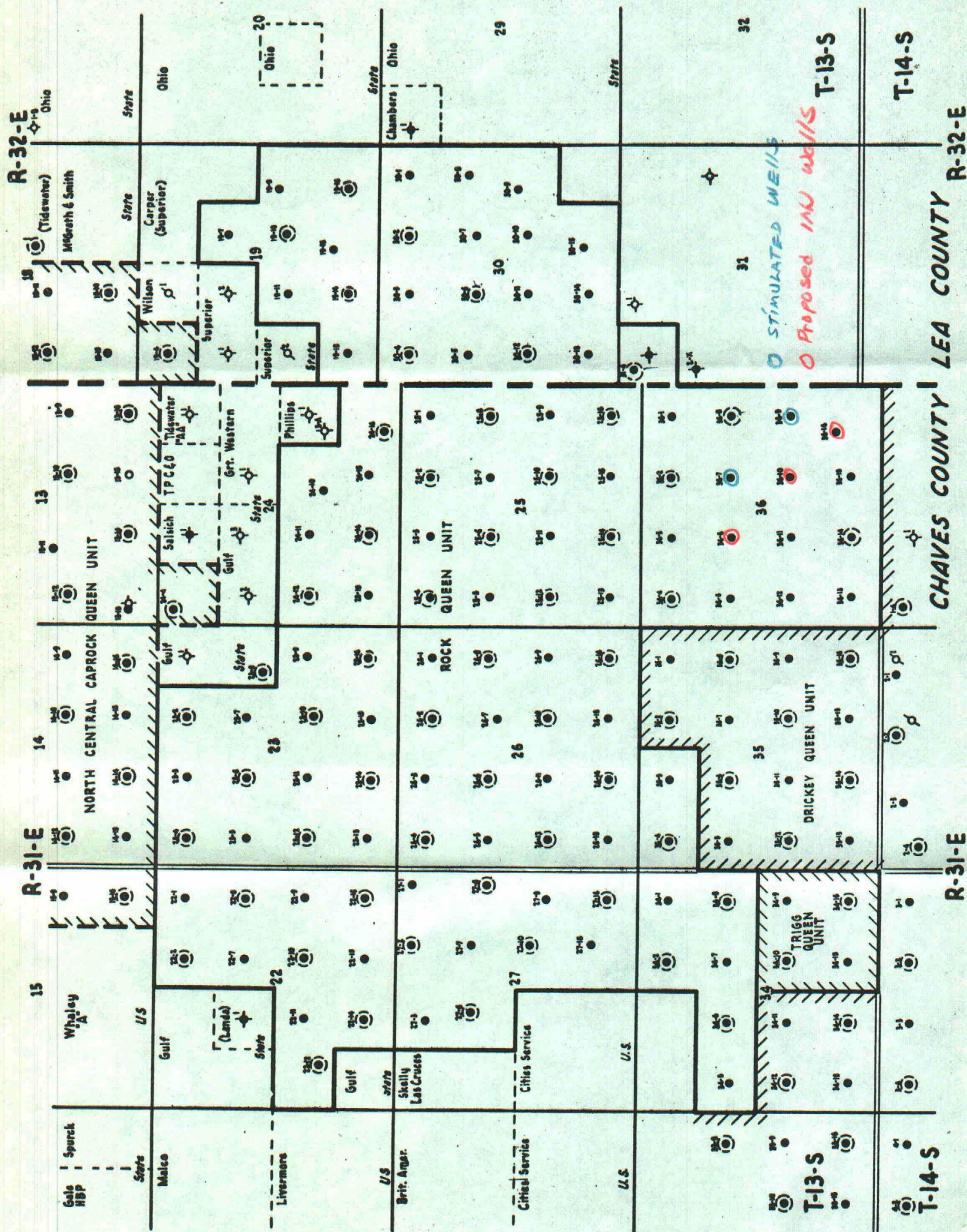
<u>Unit Well No.</u>	<u>Location</u>
36-6	SE/4 of NW/4 of Sec. 36, T-13-S, R-31-E
36-10	NW/4 of SE/4 of Sec. 36, T-13-S, R-31-E
36-16	SW/4 of SW/4 of Sec. 36, T-13-S, R-31-E <i>SE/4 SE/4</i>

Well 36-7, an offset to wells 36-6 and 36-10, has received response to water injection. A test January 24, 1964 measured 90 barrels of oil, no water while the average for this well in December was 4 barrels per day.

Well 36-9, an offset to wells 36-10 and 36-16, has also received response to water injection. As of January 25, 1964 a test measured 14 barrels of oil, no water and late in December tests on this well were 6 barrels per day.

We respectfully submit that the ultimate recoverable oil from the Rock Queen Unit will be decreased and that waste will occur due to an unbalanced condition in the pattern flooding system if the Unit wells 36-6, 36-10 and 36-16 are not converted to injection at this time.





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, 19. 64
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	36-7	1-24	P		24	2	0	90	TSTM	
	36-9	1-25	P		24	6	0	14	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..... January 31, 1964

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. 63
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	36-7	12-15	P		24	2	0	4	TSTM	
	36-9	12-16	P		24	6	0	6	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.

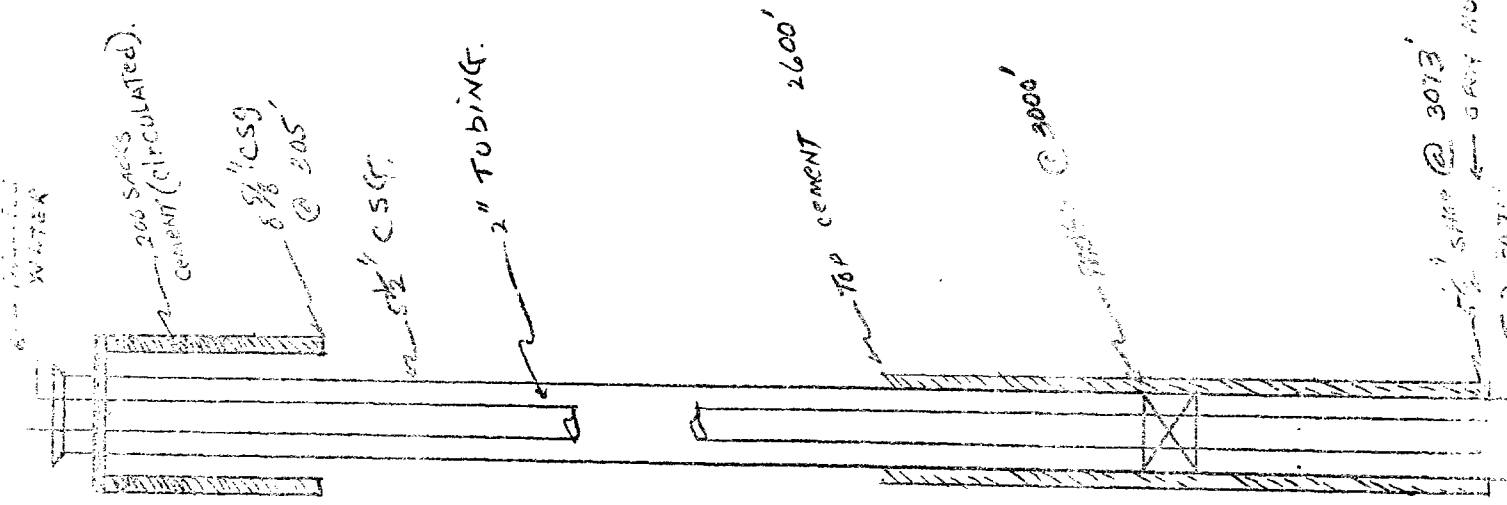
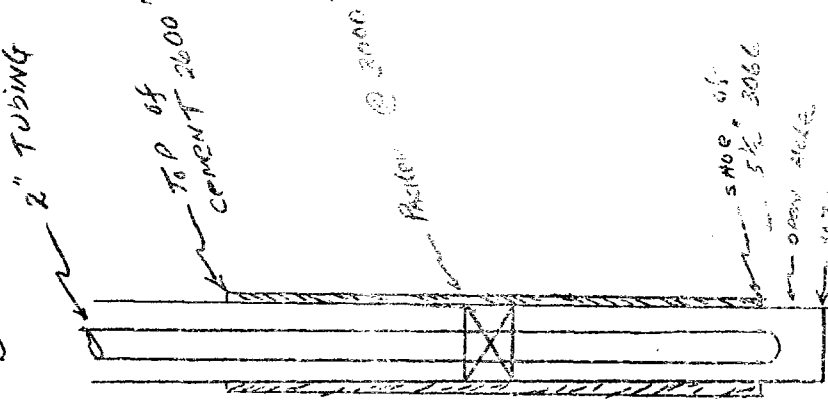
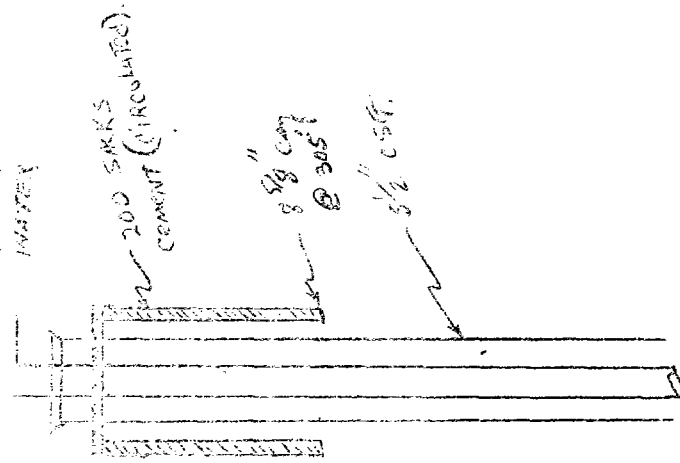
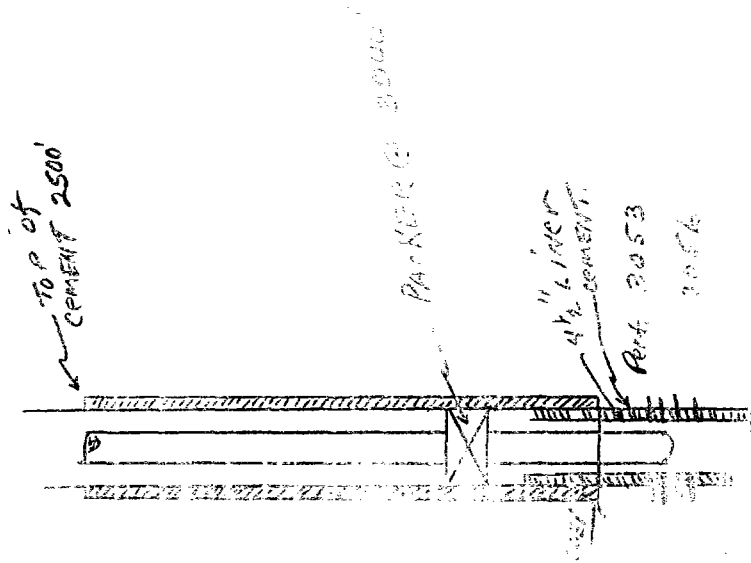
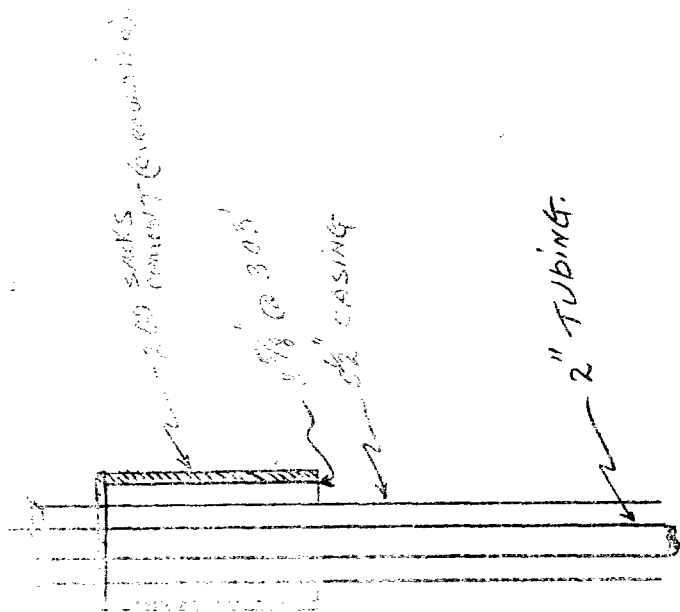
(I certify that the information given is true and complete to the best of my knowledge.)

Date..... January 31, 1964.....

GREAT WESTERN DRILLING COMPANY
Company

By..... *U. H. Crews*.....
U. H. Crews

Administrative Coordinator
Title



SHOE OF 5 1/2\" 3066
OR OPEN HOLE 3071



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

ADDRESS CORRESPONDENCE TO:
STATE CAPITOL
SANTA FE, N. M.

February 10, 1964

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 31, 1964, which seeks to convert three wells in their Rock Queen Unit Water Flood Project to water injection wells. The subject wells are:

Unit Well No.	Location
36-6	SE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 36, T. 13 S., R. 31 E.
36-10	NW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 36, T. 13 S., R. 31 E.
36-16	SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 36, T. 13 S., R. 31 E.

This office offers no objection to the granting of this application provided injection is down 2" tubing under a packer set well below the top of the cement surrounding the production string, at about 3,000, as set forth in Mr. O. H. Crews' letter to me.

Yours truly,

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



February 10, 1964

R. C. TUCKER, PRES.

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

State of New Mexico
Oil Conservation Commission
Box 2088
Santa Fe, New Mexico

Attn: Mr. J. E. Kapteina

Gentlemen:

Enclosed please find all required waivers properly executed
for the expansion of the Rock Queen Unit as requested January 31,
1964.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

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

OHC/bl
Encl.





January 31, 1964

R. C. TUCKER, PRES.

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

Cities Service Oil Co.
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. Crews

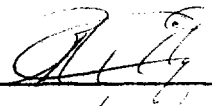
OHC/bl

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>
36-6	SE/4 of NW/4 of Sec. 36, T-13-S, R-31-E
36-10	NW/4 of SE/4 of Sec. 36, T-13-S, R-31-E
36-16	SW/4 of SW/4 of Sec. 36, T-13-S, R-31-E

as requested in your application of January 31, 1964.

CITIES SERVICE OIL COMPANY

By 
Date 2/6/64





January 31, 1964

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 [Signature]

OHC/bl

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>
36-6	SE/4 of NW/4 of Sec. 36, T-13-S, R-31-E
36-10	NW/4 of SE/4 of Sec. 36, T-13-S, R-31-E
36-16	SW/4 of SW/4 of Sec. 36, T-13-S, R-31-E

as requested in your application of January 31, 1964.

GREAT WESTERN DRILLING COMPANY

By [Signature]

Date Feb 3, 1964



RECEIVED 1:4 PM 1 31 64

January 31, 1964

Mr. 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. 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. Crews
O. H. Crews

OHC/L1

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>
36-6	SE/4 of NW/4 of Sec. 36, T-13-S, R-31-E
36-10	NW/4 of SE/4 of Sec. 36, T-13-S, R-31-E
36-16	SW/4 of SW/4 of Sec. 36, T-13-S, R-31-E

as requested in your application of January 31, 1964.

JOHN TRIGG

By John T. Trigg
Date 2-4-64



February 7, 1964

R. C. TUCKER, PRES.

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

New Mexico Oil Conservation Commission
Box 871
Santa Fe, New Mexico

Attn: Mr. J. E. Kapteina

Gentlemen:

Please find enclosed (3) three diagrammatic sketches
of Rock Queen Unit Wells 36-6, 36-10 and 36-16 giving the
information requested in your letter of February 4, 1964.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

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

OHC/b1

