



R. C. TUCKER, PRES.

September 16, 1959

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

Oil Conservation Commission  
Mabry Building  
Santa Fe, New Mexico

Re: Application for Administrative approval for a  
conversion of a Unit Well to a Water Injection  
Well, North Central Caprock Queen Unit, Lea &  
Chaves Counties, New Mexico

Gentlemen:

As provided in the Oil Conservation Commission Order No. R-1311, Great Western Drilling Company, as operator of the North Central Caprock Queen Unit, requests administrative approval for the conversion of the following Unit Well to a Water Injection Well:

Unit Well No.

Location

13-10

NW/4 of SE/4 Section 13, 13-S, 31-E

Well No. 13-7 has received response since August 24, 1959. Total production for Well No. 13-7 in July, 1959 was 33 barrels; in August, the well produced 146 barrels; September tests accompany this application.

Well No. 13-10 is a direct South offset to the above stimulated well. Therefore, as provided in Order No. R-1311, Great Western Drilling Company applies for the expansion of the North Central Caprock Queen Unit by reason of the conversion of Unit Well 13-10.

We respectfully submit that the ultimate recoverable oil from the Caprock Queen reservoir will be decreased and waste will occur due to an unbalanced condition in the pattern flooding system if Unit Well No. 13-10 is not converted to a Water Injection Well at this time.

Attached to this application are: the C-116 of Great Western Drilling Company Well No. 13-7, showing stimulation; a plat of the area showing all producing and water injection wells; the proposed water injection well; and offset operators.



Oil Conservation Commission

Re: Application for Approval for  
conversion of Unit Well to  
Water Injection Well, North  
Central Caprock Queen Unit

September 16, 1959

- Page 2 -

Waivers from offset operators are being requested at this time, and these waivers will be forwarded to the Commission at such time as they are executed so as to decrease the required 15-day interim period set up by Commission order for administrative expansion.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By: O. H. Crews  
O. H. Crews

OHC:mc  
Att.

NEW MEXICO OIL CONSERVATION COMMISSION

HEAD OFFICE 000

HEAD OFFICE 000

GAS-OIL RATIO REPORT

16 SEP 17 PM 5:07

OPERATOR Great Western Drilling Company POOL Caprock Queen  
ADDRESS Box 1659, Midland, Texas MONTH OF September, 1959  
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	
North Central Caprock Queen Unit  Tract 7	13-7	9-14	Pump		24	4	0	16	TSTM	
The above well averaged 1 bopd in July, 1959, and 4.7 bopd in August. There has been no workover.										

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.

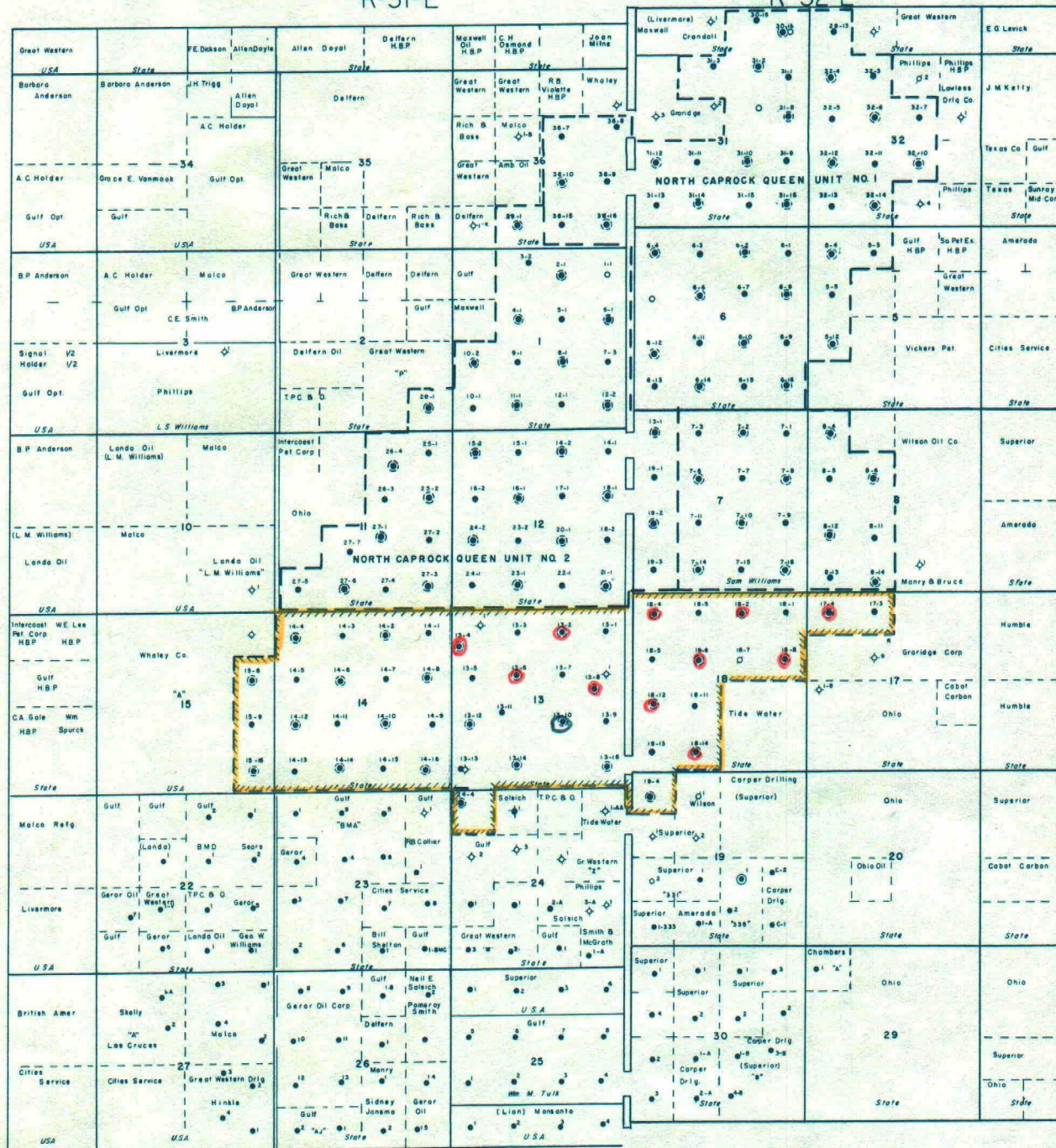
(I certify that the information given is true and complete to the best of my knowledge.)

Date 16 September 1959 Great Western Drilling Company  
By O. H. Crews (O.H. Crews)  
General Superintendent  
Title



R-32-F

T-13-S



# NORTH CENTRAL CAPROCK QUEEN UNIT

OPERATED BY  
GREAT WESTERN DRILLING COMPANY

CAPROCK QUEEN POOL

LEA AND CHAVES COUNTIES, NEW MEXICO



LEGEND

- Producer
- ⊙ Injection well
- ⊗ Proposed injection well
- ◇ Dry hole

Unit Boundary

● Injection Well

Proposed Injection Well



MAIN OFFICE, OCS  
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September 18, 1959

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O  
P  
Y

Mr. O. H. Crews  
Great Western Drilling Company  
Midland, Texas

Dear Mr. Crews:

With reference to your letter of September 16, 1959 and attached copy of application for administrative approval for conversion of a unit well to a water injection well, North Central Caprock Queen Unit, Lea and Chaves Counties, New Mexico, the original of which was forwarded to the Oil Conservation Commission, please be advised that the enclosures which accompanied your application to the Oil Conservation Commission were not contained in your communication to this office. Further, the last sentence of your second paragraph is somewhat confusing, because of the use of the word "annulus" and for these reasons, I cannot give a waiver to Mr. Porter.

It is suggested that you forward to this office copies of the enclosures which you sent to the Oil Conservation Commission, along with an explanation of the above-mentioned confusing sentence and any other information which you think may be of value to me in determining whether or not I should submit a waiver to the Commission.

Yours truly,

S. E. Reynolds  
State Engineer

By:

Frank E. Irby  
Chief  
Water Rights Division

FEI/ma  
cc-A. L. Porter, Jr.

W. L. Irby  
OK  
76  
10-6-59  
K



PETROLEUM AND ITS PRODUCTS

**ROSWELL DISTRICT**

**W. A. SHELLSHEAR**  
District Manager

**E. S. GREAR**  
District Exploration Manager

**M. I. TAYLOR**  
District Production Manager

**G. A. PRICE**  
District Services Manager

# GULF OIL CORPORATION

P. O. DRAWER 669 — ROSWELL, NEW MEXICO

September 23, 1959

FORT WORTH  
PRODUCTION DIVISION

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

Gentlemen:

This is to advise that Gulf Oil Corporation has been given due notice that Great Western Drilling Company, as operator of the North Central Caprock Queen Unit, has made application for administrative approval to expand the North Central Caprock Queen Unit by the conversion of Unit Well No. 13-10 to a water injection well.

We hereby waive any objection to the granting of this application for the proposed water injection well at the following location:

Unit Well No. 13-10 located in the NW/4  
of SE/4, Section 13, Township 13 South,  
Range 31 East, Chaves County, New Mexico.

Executed this 23rd day of September, 1959.

Yours very truly,

C. D. Borland  
Assistant District  
Production Manager



R. C. TUCKER, PRES.

September 29, 1959

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

New Mexico Oil Conservation Commission  
Santa Fe  
New Mexico

Attention: Mr. A. L. Porter, Jr.

Re: Great Western Drilling Company's  
Application to convert Well No.  
13-10, North Central Caprock Queen  
Unit, to Water Injection

Gentlemen:

Enclosed please find exactued waivers of objections  
to the expansion of the North Central Caprock Queen Unit.

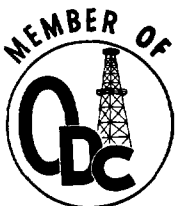
We hope these waivers will expedite the approval  
of our request.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

  
O. H. Crews  
General Superintendent

OHC : amk



MAIN OFFICE OGC

1959 OCT 2 AM 8:18

September 17, 1959

Ambassador Oil Corporation  
P.O. Box 9338  
Fort Worth, Texas

Gentlemen:

We have requested expansion of the North Central Caprock Queen Unit under the system for administrative approval as set forth in the Oil Conservation Commission Order No. R-1311. A copy of our letter requesting expansion is attached.

If you have no objection to the application for this expansion, please signify by signing and returning one copy of this letter to this office.

Yours very truly,

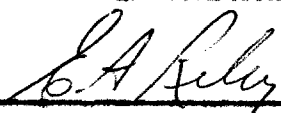
GREAT WESTERN DRILLING COMPANY

  
O. R. Crews

OHC:mc

We have no objection to the expansion of the North Central Caprock Queen Unit operations by reason of the conversion of Unit Well No. 13-10, (NW/4 SE/4 of Section 13, T-13-S, R-31-E), as applied for in your letter dated September 17, 1959.

AMBASSADOR OIL CORPORATION

By: , SUPERINTENDENT  
SECONDARY RECOVERY  
Date: SEPTEMBER 23, 1959





PETROLEUM AND ITS PRODUCTS

**ROSWELL DISTRICT**

**W. A. SHELLSHEAR**  
District Manager

**E. S. GREAR**  
District Exploration Manager

**M. I. TAYLOR**  
District Production Manager

**G. A. PRICE**  
District Services Manager

**GULF OIL CORPORATION**

P. O. DRAWER 669 — ROSWELL, NEW MEXICO

**September 23, 1959**

**FORT WORTH  
PRODUCTION DIVISION**

**New Mexico Oil Conservation Commission  
Post Office Box 871  
Santa Fe, New Mexico**

**Gentlemen:**

This is to advise that Gulf Oil Corporation has been given due notice that Great Western Drilling Company, as operator of the North Central Caprock Queen Unit, has made application for administrative approval to expand the North Central Caprock Queen Unit by the conversion of Unit Well No. 13-10 to a water injection well.

We hereby waive any objection to the granting of this application for the proposed water injection well at the following location:

Unit Well No. 13-10 located in the NW/4  
of SE/4, Section 13, Township 13 South,  
Range 31 East, Chaves County, New Mexico.

Executed this 23rd day of September, 1959.

Yours very truly,

**C. D. Borland  
Assistant District  
Production Manager**



**Great Western Drilling Company  
Post Office Box 1659  
Midland, Texas**

MAIN OFFICE OCC

1959 OCT 2 AM 8 18

September 17, 1959

Graridge Corporation  
P.O. Box 752  
Breckenridge, Texas

Gentlemen:

We have requested expansion of the North Central Caprock Queen Unit under the system for administrative approval as set forth in the Oil Conservation Commission Order No. R-1311. A copy of our letter requesting expansion is attached.

If you have no objection to the application for this expansion, please signify by signing and returning one copy of this letter to this office.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

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

OHC:mc

We have no objection to the expansion of the North Central Caprock Queen Unit operations by reason of the conversion of Unit Well No. 13-10, (NW/4 SE/4 of Section 13, T-13-S, R-31-E), as applied for in your letter dated September 17, 1959.

GRARIDGE CORPORATION

By: *JA Ford*

Date: 9/18/59



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS  
STATE ENGINEER

October 8, 1959

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 Great Western Drilling Company's application to convert well No. 13-10, North Central Caprock Queen Unit, to water injection, and subsequent correspondence on this matter.

It appears that the casing program and the plan of injection are adequate for the protection of fresh waters which may be encountered. Therefore, this office finds no objection to the granting of the application.

Yours truly,

S. E. Reynolds  
State Engineer

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

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