Texas In. r9 -

R. C. TUCKER, PRES.

August 11, 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 Conversion of a Unit Well to a Water Injection Well, North Central Caprock Queen Unit, Lea and 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

13-6

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

Well No. 13-3 in Tract 8, NE/4 of NW/4 of Section 13, T-13-S, R-31-E, North Central Caprock Queen Unit, has received response since July 28 (C-116 attached). The stimulated well No. 13-3 is directly offset by the proposed Injection Well No. 13-6. 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 No. 13-6.

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. 13-6 is not converted to a Water Injection Well at this time.

There are attached copies of the C-116 of Great Western Drilling Company's Well No. 13-3 showing stimulation, and a plat of the area showing all producing wells, water injection wells, and proposed water injection well; and, further showing all offset Operators.



Page No.2

Oil Conservation Commission Mabry Building Santa Fe, New Mexico

RE: 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

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

ffeer

0. H. Crews General Superintendent

OHC:amk Enclosures:

cc: Mr. S. E. Reynolds, State Engineer Mabry Building Santa Fe, New Mexico

> Graridge Corporation P. O. Box 752 Breckenridge, Texas

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

Gulf Oil Corporation P. O. Box 962 Roswell, New Mexico

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# NORTH CENTRAL CAPROCK QUEEN UNIT

# OPERATED BY

GREAT WESTERN DRILLING COMPANY

CAPROCK QUEEN POOL

LEA AND CHAVES COUNTIES, NEW MEXICO



- Unit Boundary

- O Injection Well
- Proposed Injection Well

# MAIN OFFICE DER MEXICO OIL CONSERVATION COMMISSION MAIN OFFICE DER MEXICO OIL CONSERVATION COMMISSION BED AUG 10 MI BED GAS-OIL RATIO REPORT

 OPERATOR
 Great Western Drilling Company
 POOL
 Caprock Queen

 ADDRESS
 P. O. Box 1659, Midland, Texas
 MONTH OF. August
 , 19.59.

 SCHEDULED TEST
 COMPLETION TEST
 SPECIAL TEST
 (Check One)

 (See Instructions on Reverse Side)

		Die	Dutin	Chal	<b>T</b>	Daily	Production During Test			GOR
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North Central Caprock Queen Unit										
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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	Great Western Drilling Company Company				
	By Offcaus	0. H. Crews			
	General Superintend				



R. C. TUCKER, PRES.

August 14, 1959

PHONE MU 2-5241 Address Reply to: Box 1659 Midland, Texas

Oil Conservation Commission Mabry Building Santa Fe, New Mexico

Attention: Mr. A. L. Porter

Gentlemen:

Enclosed please find all waivers properly executed for our application of administrative approval to expand the North Central Caprock Queen Unit by the conversion of Unit Well 13-4 to a water injection well.

Yours very truly,

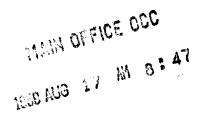
GREAT WESTERN DRILLING COMPANY

eus

O. H. Crews General Superintendent

OHC:amk Enclosures





WFX -13

August 5, 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 latter 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

Offleurs

OHC : ank

We have no objection to the expansion of the North Central Caprock Queen Unit operations by reason of the conversion of Unit Well No. 13-4, (NW/4 NW/4 of Section 13, T-13-S, R-31-E), as applied for in your letter dated August 5, 1959.

AMBASSADOR OIL CORPORATION Date



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WFX-15

August 5, 1959

Graridge Corporation P. O. Box 752 Brackenridge, Texas

Gentlemen:

We have requested expansion of the North Central Caprock Queen Unit under the system for #dministrative approval as set forth in the Oil Conservation Commission Order No. R-1311. A copy of our latter 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 MESTERN DRILLING COMPANY

Officers

OHC : amk

We have no objection to the expansion of the North Central Caprock Queen Unit operations by reason of the conversion of Unit Well No. 13-4, (NW/4 NW/4 of Section 13, T-13-5, E-31-E), as applied for in your letter dated August 5, 1959.

GRARIDGE CORFORATION By\_ Il Brd Date\_ August 11, 1959



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WAX-15

PETROLEUM AND ITS PRODUCTS

**CORPORATION** 

ROBWELL DISTRICT

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P. O. DRAWER 669 — ROSWELL, NEW MEXICO

District Exploration Manager M. I. TAYLOR

August 11, 1959

OIL

FORT WORTH PRODUCTION DIVISION

M. I. TAYLOR District Production Manager

G. A. PRICE District Services Manager

> 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. 13-4 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. 13-4 located in the NW/4 of the NW/4, Section 13, Township 13 South, Range 31 East, Chaves County, New Mexico.

Executed this 11th day of August, 1959.

Yours very truly,

M. I. TAYLOF



NFX-15

R. C. TUCKER, PRES.

August 17, 1959

PHONE MU 2-5241 Address Reply to: Box 1659 Midland, Texas

Oil Conservation Commission Mabry Building Santa Fe, New Mexico

Attention: Mr. A.L. Porter

Gentlemen:

Enclosed please find a waiver properly executed for our application of administrative approval to expand the North Central Caprock Queen Unit by the conversion of Unit Well No. 13-4 to a water injection well.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

0. H. Crews

General Superintendent

OHC:amk Enclosure



MAIN OFFICE OCC

Porter

1070 AUG 2.J M 6:30

August 11, 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 Gil 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,

CREAT WESTERN DRILLING COMPANY

Reco H. Crews General Superintendent

OHC : amk

We have no objection to the expansion of the North Central Caprock Queen Unit operations by reason of the conversion of Unit Well No. 13-6, (SE/4 NW/4 of Section 13, T-13-8, R-31-E), as applied for in your letter dated August 11, 1959.

GRARIDGE CORPORATION Date

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STATE OF NEW MEXICO

## STATE ENGINEER OFFICE SANTA FE

S. E. REYNOLDS STATE ENGINEER

August 20, 1959

ADDRESS CORRESPONDENCE TO: P. O. BOX 1079 SANTA FE, N. M.

Oil Conservation Commission State Capitol Santa Fe, New Mexico

Attn. Mr. A. L. Porter, Jr. Secretary-Director

Dear Mr. Porter:

Reference is made to the application of Great Western Drilling Company dated August 11, 1959 which seeks to convert Unit Well No. 13-6 of the North Central Caprock Queen Unit located in the SE<sup>1</sup> of the NW<sup>1</sup> of Section 13, Township 13 South, Range 31 East to an injection well for the purpose of secondary recovery of oil.

Mr. Crews, General Superintendent, assures me by letter that proper tests will be made to assure that injection will be contained solely in the Queen formation. With this assurance, it appears that fresh water zones will be adequately protected and therefore, this office offers no objection to the granting of the application.

Yours truly,

S. E. Reynolds State Engineer

Frank E. Irby

Ler Rights Division

FEI/ma