



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:

<u>Unit Well No.</u>	<u>Location</u>
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.



Oil Conservation Commission
Mabry Building
Santa Fe, New Mexico

Page No.2

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


O. H. Crews
General Superintendent

OHC:amk
Enclosures:

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

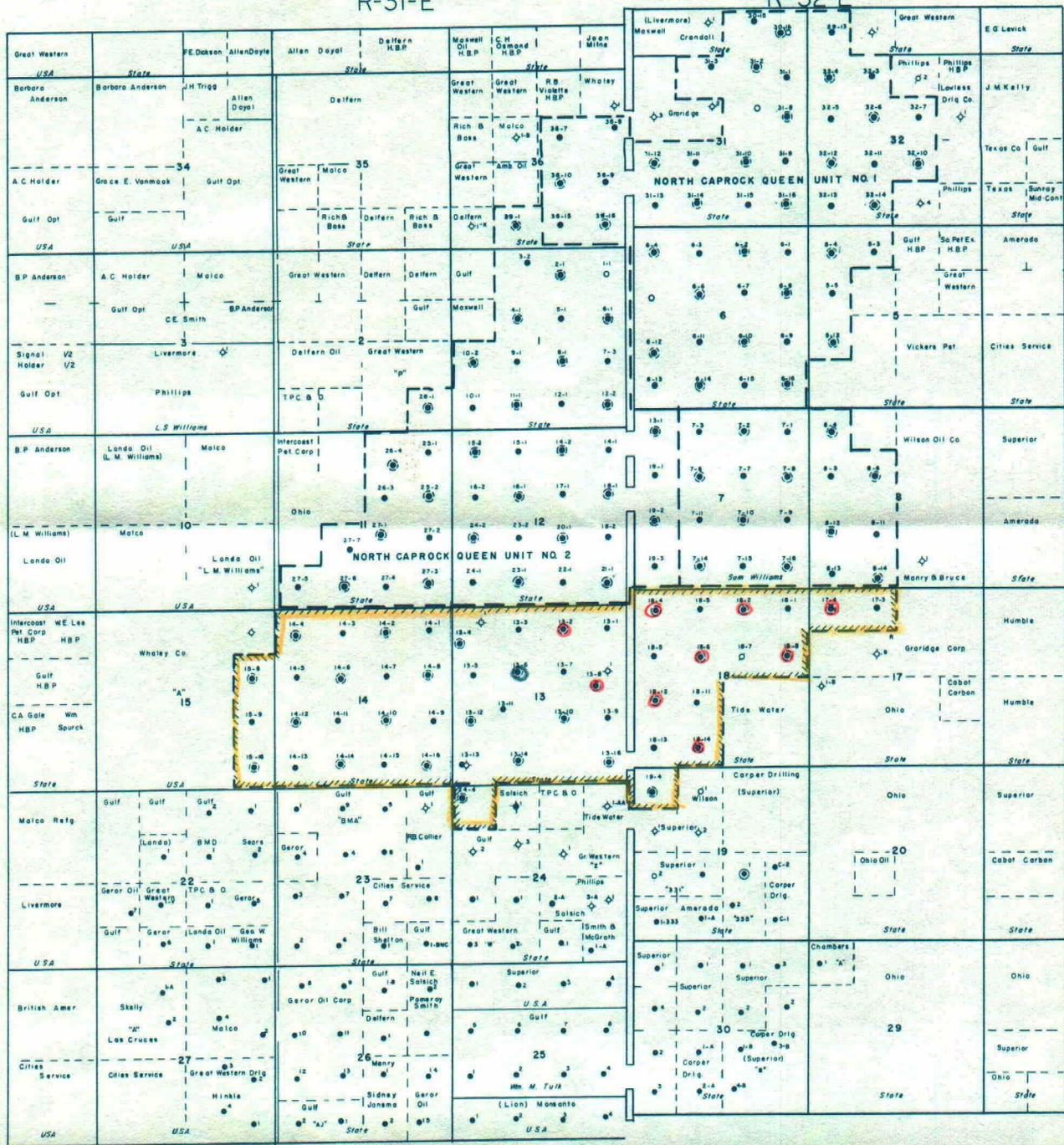
Graridge Corporation
P. O. Box 752
Breckenridge, Texas

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

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

R-31-E

R-32-E



T-12-S

T-13-S

NORTH CENTRAL CAPROCK QUEEN UNIT

OPERATED BY
GREAT WESTERN DRILLING COMPANY

CAPROCK QUEEN POOL
LEA AND CHAVES COUNTIES, NEW MEXICO

- └───┘ Unit Boundary
- Injection Well
- Proposed Injection Well



LEGEND

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

MAIN OFFICE **NEW MEXICO OIL CONSERVATION COMMISSION**
 1959 AUG 14 AM 8:17
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)

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 8	13-3	8-10	Pumping		24	11	0	16	TSTM	
This well has averaged 3 bbls/day during test the past six months. Since July 28, 1959, the following tests have been made: July 28 - 11 bbls. July 30 - 12 bbls. August 3 - 14 bbls.										

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..... August 12, 1959.....

Great Western Drilling Company
Company

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

General Superintendent
Title

MAIN OFFICE ODC
1959 AUG 27 AM



WPA-15

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

O. H. Crews
O. H. Crews
General Superintendent

OHC:amk
Enclosures



MAIN OFFICE OCC
1959 AUG 17 AM 8:47

August 5, 1959

WFX - 13

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. H. Crews
O. H. Crews

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-S, R-31-E), as applied for in your letter dated August 5, 1959.

AMBASSADOR OIL CORPORATION

By Robert H. Dick

Date 8-7-59

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MAIN OFFICE OCC
1959 AUG 27 AM 9:47

WFX-15

August 5, 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: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-S, R-31-E), as applied for in your letter dated August 5, 1959.

GRARIDGE CORPORATION

By *F. A. Ford*

Date *August 11, 1959*

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Page 1

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PETROLEUM AND ITS PRODUCTS

WFX-15

ROSWELL DISTRICT

GULF OIL CORPORATION

W. A. SHELLSHEAR
District Manager

P. O. DRAWER 669 — ROSWELL, NEW MEXICO

E. S. SHEAR
District Exploration Manager

August 11, 1959

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. TAYLOR

MAIN OFFICE CCC
1959 AUG 17



IN EX - 17

R. C. TUCKER, PRES.

August 17, 1959

PHONE MU 2-5241
ADDRESS REPLY TO:
BOX 1859
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


O. H. Crews
General Superintendent

OHC:amk
Enclosure



Partee

MAIN OFFICE OCC

1959 AUG 20 AM 8:30

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 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
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-S, R-31-E), as applied for in your letter dated August 11, 1959.

GRARIDGE CORPORATION

By *B. G. Harrison*

Date *August 14, 1959*

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MAIN OFFICE OCC
AUG 19 11 00 AM '59



STATE OF NEW MEXICO
STATE ENGINEER OFFICE
SANTA FE

S. E. REYNOLDS
STATE ENGINEER

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

August 20, 1959

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 $\frac{1}{4}$ of the NW $\frac{1}{4}$ 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

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

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

objection waived if fresh water
on [unclear] Co