



W/FX - 43

Due Date July 29

1960 JUL 17 AM 10 24

R. C. TUCKER, PRES.

July 11, 1960

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

Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Re: Application for Administrative Approval for a Conversion of
One Unit Well to a Water Injection Well, North Central Cap-
rock 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, re-
quests administrative approval for the conversion of the following unit well to an
injection well:

<u>Unit Well No.</u>	<u>Location</u>
14-16	SE/4 of SE/4 of Section 14, T-13-S, R-31-E, Chaves County, New Mexico

Well No. 14-9, a direct north offset to Well 14-16, has received response
to water injection since the last week in June, 1960. Production has increased from
five barrels to twenty-seven barrels as per enclosed tests on Form C-116's.

We respectfully submit that the ultimate recoverable oil from the Caprock
Queen Reservoir will be decreased and that waste will occur due to an unbalanced
condition in the pattern flooding system if Unit Well No. 14-16 is not converted to
a water injection well at this time.

Attached to this application are: The C-116 of Well 14-9, before and after
stimulation; a plat of the area showing all producing, water injection, and the pro-
posed water injection wells; and the offset operators.

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 the Commission Order for
Administrative Approval for expansion.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

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



NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR..... Great Western Drilling Company..... POOL..... Caprock Queen.....
 ADDRESS..... P. O. Box 1659, Midland, Texas..... MONTH OF..... June....., 1960.....
 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 20	14-9	5-20	Pump		24	3	0	5	2.8	560
	14-9	5-27	Pump		24	3	0	5	2.5	500
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..... July 11, 1960.....

GREAT WESTERN DRILLING COMPANY
Company

By..... *O. H. Crews*..... (O. H. Crews)

General Superintendent
Title

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR.....Great Western Drilling Company..... POOL.....Caprock Queen.....
 ADDRESS.....P. O. Box 1659, Midland, Texas..... MONTH OF.....July....., 1960.....
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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 20	14-9	7-8	Pump		24	3	0	27	TSTM	
			Test 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.....July 11, 1960.....
GREAT WESTERN DRILLING COMPANY.....
 By.....*O. H. Crews*..... (O. H. Crews)
General Superintendent.....
 Title



R. C. TUCKER, PRES.

July 19, 1960

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

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

Re: Waiver for Expansion of Flood
North Central Caprock Queen Unit
Well No. 14-16

Gentlemen:

Please find the three (3) waivers required in your order
No. R-1311. These waivers will obviate the necessity of the fifteen
(15) day waiting period.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

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

OHC:TR
Enclosures (3)





R. C. TUCKER, PRES.

July 11, 1960

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

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 this 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

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

We have no objection to the expansion of the North Central Caprock 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>
14-16	SE/4 of SE/4 of Section 14, T-13-S, R-31-E, Chaves County, New Mexico

as applied for in your letter of July 11, 1960.

AMBASSADOR OIL CORPORATION

By: E. H. Kelly
 Date: July 13, 1960



July 11, 1960

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 this 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

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

We have no objection to the expansion of the North Central Caprock Queen Unit operations by reason of the conversion of the following well to a water injection well:

Unit Well No.

Location

14-16

SE/4 of SE/4 of Section 14, T-13-S, R-31-E,
Chaves County, New Mexico

as applied for in your letter of July 11, 1960.

GRARIDGE CORPORATION

By: *JA Ford*
Date: 7/12/60



R. C. TUCKER, PRES.

July 11, 1960

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

Great Western Drilling Company
P. O. Box 1659
Midland, 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 this 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

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

We have no objection to the expansion of the North Central Caprock Queen Unit operations by reason of the conversion of the following well to a water injection well:

Unit Well No.

Location

14-16

SE/4 of SE/4 of Section 14, T-13-S, R-31-E,
Chaves County, New Mexico

as applied for in your letter of July 11, 1960.

GREAT WESTERN DRILLING COMPANY

By: O. H. Crews
Date: 7-19-1960



MAIN OFFICE OCC

1960 JUL 20 AM 8:03



WFX 73

STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

July 19, 1960

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 Great Western Drilling Company's application to convert well 14-16 in the SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 14, Township 13 South, Range 31 East, Chaves County, New Mexico to water injection well.

It appears that the casing program on this well which was drilled in March of 1955 is adequate to protect the fresh water zones which may exist in the vicinity. Therefore, this office offers no objection to the granting of this application.

Yours truly,

S. E. Reynolds
State Engineer

By: 
Frank E. Irby
Chief
Water Rights Division

FEI/ma
cc-Mr. O. H. Crews
F. H. Hennighausen