

January 4, 1960

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 three Unit Wells to Water Injection Wells, 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 Wells to Water Injection Wells:

Unit Well No.	Location And Stars
14-8	SE/4 of NE/4 of Section 14, 13-S, 31-E
13-12	NW/4 of SW/4 of Section 13, 13-S, 31-E
13-16	SE/4 of SE/4 of Section 13, 13-S, 31-E 54 15th here 17 ros says

60 " 4" lever in Well No. 13-5, an offset to both 14-8 and 13-12, has received response to 28 aar water injection since December 10, 1959. The last test in November, 1959 was 4 barrels per day. This increased to 56 barrels per day on December 16, 1959 on a 24-hour pumping test. A request for this increase in allowable was made to the New Mexico Oil Conservation Commission on December 17, 1959 and granted on December 21, 1959.

Well No. 18-13, an offset to proposed injection well No. 13-16, has had a response to water injection since December 30, 1959. This well was producing 3 barrels per day on tests December 4 and December 16, but since December 30, 1959 the average has been 16 barrels per day. 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 Wells No. 14-8, 13-12 and 13-16.



Page #2

Oil Conservation Commission

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

January 4, 1960

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 Wells No. 14-8, 13-12 and 13-16 are not converted to Water Injection Wells at this time.

Attached to this application are: the C-116 of Great Western Drilling Company Wells No. 13-5 and 18-13, showing stimulation; a plat of the area showing all producing and water injection wells; the proposed 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 Commission order for administrative expansion.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By: OHChews O. H. Crews

OHC:mc Att.

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR	Great West	ern Drilling Company	POOL	Caprock Queen	
ADDRESS	Box1659.,	Midland, Texas	MONTH OF	December,	, ₁₉ . 59
SCHEDULED	FEST		۲	SPECIAL TEST	(Check One)
		(See Instruct	ions on Reverse Side)	

	Well	Date of	Producing	Choke	Test	Daily	Produ	ction Dur	GOR		
Lease	No.	Test	Method	Size	Hours	Allowable Bbls.	Water Bbls.	Oil Bbls.	Gas MCF	Cu. Ft. Per Bbl.	
North Central Caprock Queen Unit - Tract 10	13-5	12-16	Pump		24	4	0	56	TSTM		
North Central Caprock Queen Unit - Tract 5	18-13	12-30	Pump		24	4	0	16	TSTM		
			-				_				
	ļ										

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.

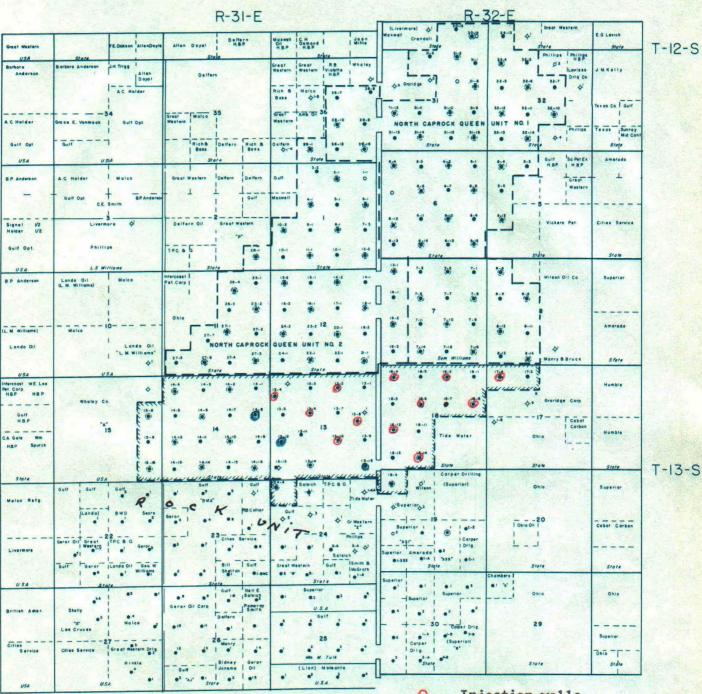
(I certify that the information given is true and complete to the best of my knowledge.)

Date January 4, 1960

Great Western Drilling Company

By OH Jews O. H. Crews

General Superintendent



Injection wells
Proposed injection wells

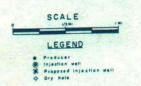
MORTH CENTRAL CAPROCK QUEEN UNIT

OPERATED BY

GREAT WESTERN DRILLING COMPANY

CAPROCK QUEEN POOL

LEA AND CHAVES COUNTIES, NEW MEXICO





January 13, 1960

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

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

> Re: Application for Administrative Approval for Conversion of Three Unit Wells to Water Injection Wells, North Central Caprock, Lea & Chaves Counties, N.M.

Gentlemen:

. .

Enclosed please find C-116 requested in your letter of January 8, 1960. Well No. 13-5 in Tract 10 was put back on production November 9, 1955. It produced some two to four barrels per day during the period November 10 to December 4.

The C-116 gives two tests on Weil No. 13-5 before stimulation.

Well No. 18-13, Tract 5, also has two tests prior to the stimulation.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

0. H. Crews General Superintendent

OHC:amh Enclosures



NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

÷ 1

OPERATORG	reat Western Drill	ing Company	POOL	Caprock Que	en	••••••
ADDRESSP	OBox.1659, Mid	land, Texas	MONTH OF	December	••••••	, 1959.
SCHEDULED TES	ТСОР	MPLETION TEST		SPECIAL TEST	x	(Check One)
		(See Instructions	on Reverse Side)			

NAT 11	Data of	D	Chal	Teet	T	T	T	Daily	Produ	iction Dur	ing Test	GOR
No.	Test	Method	Size	Hours	L Cat Allanua Lia		Oil Bbls.	Gas MCF	Cu. Ft. Per Bbl.			
1		Pump Pump		24 24	3 3	0 0	2.28 3	TSTM TSTM				
1		Pump Pump		24 24	4 4	0 0	1 2.56	TSTM TSTM				
	13-5 13-5 18-1		No. Test Method 13-5 12-4 Pump 13-5 12-11 Pump 18-1312-5 Pump	No. Test Method Size 13-5 12-4 Pump 13-5 12-11 Pump 18-1312-5 Pump 13-5 12-11 Pump 13-5 13-5 12-11 Pump 13-5	No. Test Method Size Hours 13-5 12-4 Pump 24 13-5 12-11 Pump 24 18-1312-5 Pump 24	No. Test Method Size Hours Allowable Bbls. 13-5 12-4 Pump 24 3 13-5 12-11 Pump 24 3 18-1312-5 Pump 24 4	Well No.Date of TestProducing MethodChoke SizeTest HoursDany Allowable Bbls.Water Bbls.13-512-4Pump243013-512-11Pump243018-1312-5Pump2440	Well No.Date of TestProducing MethodChoke SizeTest HoursDaily Allowable Bbls.Water Bbls.Oil Bbls.13-512-4Pump24302.2813-512-11Pump2430318-1312-5Pump24401	No.TestMethodSizeHoursAllowable Bbls.Water Bbls.Oil Bbls.Gas 			

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 13, 1960_____Great Western Drilling Company______

General Superintendent

By Offleurs (O. H. Crews)



....

January 13, 1960

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, Jr.

Gentlemen:

Please find waivers to requested expansion

of the North Central Caprock Queen Unit.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

BY: Officers

OHC/mls

Enclosures:





January 4, 1960

PHONE MU 2-3241 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: Officers

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

Unit Well No.

Location

14-8	SE/4	of	NE/4	of	Section	14,	13-S,	31-е
13-12	NW/4	of	SW/4	of	Section	13,	13-S,	31-E
13-16	SE/4	of	SE/4	of	Section	13,	13-S,	31-E

as applied for in your letter dated January 4, 1960.

GREAT WESTERN DRILLING COMPANY

By: Officeros Date: Jan 4, 1960



GREAT WESTERN DRILLING CO. MIDLAND, TEXAS

January 4, 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: Officeros

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

Unit Well No.

Location

14-8	SE/4 of NE/4 of Section 14, 13-5, 3	11-E
13-12	NW/4 of SW/4 of Section 13, 13-8, 3	1-E -
13-16	SE/4 of SE/4 of Section 13, 13-8, 3	11-E

as applied for in your letter dated January 4, 1960.

GRARIDGE CORPORATION

9. Flamion. AN. 5 1960



ア

January 4, 1960

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

PHONE MU 2-5241 ADDRESS REPLY TO: 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

OPERATIONS JAN 5 1960 By: OHG H. Crews 129.72 10.00 ... AA. 1.000 3 f.c.q. R.lb TO CONSE. MAN: 14. D Prod: We have no objection to the expansion of the North Central Caprock Queen TMATE operations by reason of the conversion of the following wells to water in the

Unit Well No.

tion wells:

- Location
- 14-8 SE/4 of NE/4 of Section 14, 13-S, 31-E 13-12 NW/4 of SW/4 of Section 13, 13-S, 31-E 13-16 SE/4 of SE/4 of Section 13, 13-S, 31-E

as applied for in your letter dated January 4, 1960.

AMBASSADOR OIL CORPORATION

By: s

Date: /





STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

January 19, 1960

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

S.E. REYNOLDS

Oil Conservation Commission Santa Fe, New Mexico

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

Dear Mr. Porter:

Reference is made to Great Western Drilling Company's application to convert wells No. 14-8, 13-12 & 13-16, North Central Caprock Queen Unit, to water injection wells. I have reviewed this application and discussed it with your staff and have concluded that their plan will not jeopardize the fresh water that may exist in this area. Therefore, this office offers no objection to the granting of the application.

Very truly yours,

S. E. Reynolds State Engineer

By: Chau Frank E. Irby

Chief Water Rights Division

FEI/bv