

GRARIDGE CORPORATION
IBEX BUILDING POST OFFICE BOX 752
BRECKENRIDGE, TEXAS

February 8, 1960

Oil Conservation Commission
State of New Mexico
State Capitol Building
Santa Fe, New Mexico

Re: Application For Administrative
Approval To Convert Two Wells
To Water Injection Wells In
North Caprock Queen Unit No. 1
Lea and Chaves Counties

Gentlemen:

In accordance with Commission Order No. R-972-B, issued on August 6, 1958, Graridge Corporation as Unit Operator respectfully request administrative approval to convert the following wells to water injection wells.

<u>WELL NO.</u>	<u>LOCATION</u>
7-8	SE/4, NE/4, Sec. 7, T13S, R32E
8-4	NW/4, NW/4, Sec. 8, T13S, R32E

The following data pertinent to the proposed expansion are given.

(1) The proposed injection wells are directly offset by a producing well which has shown response to the waterflood project. See attached Form C-116 and Exhibit No. 1.

(2) The wells requested have undergone remedial work and readied for water injection.

(3) Exhibit No. 2 indicates present injection well data. It is evident that some of the injection wells are not as receptive to water injection as others, thus, it is desirable to place wells on injection as early as responses warrant in order to maintain flood balance.

WFX - 27
600' - 20' 5" 5' 2"
4' 1" liner 2911' - 3040'
3031 5' 2" 600' 8"
4' 1" liner 2911' - 3035'
100' 80' 4"

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(4) Exhibit No. 3 gives performance curves of the overall waterflood project.

Graridge Corporation is requesting the State Engineers office to waive its requirement of placing tubing and packer in these injection wells as only fresh water will be injected into them, and which they did on Injection Well No. 7-14.

Copies of this application are being sent to Ambassador Oil Corporation and to Great Western Drilling Company as they are offset operators to the proposed expansion. We are submitting waivers to the offset operators and will forward these to the Commission as soon as possible.

Any consideration by the Commission in expediting this matter will be greatly appreciated.

Very truly yours,

GRARIDGE CORPORATION



B. G. Harrison
Manager of Secondary Recovery

SHL:BGH:gl

cc: Oil Conservation Commission, Hobbs
Mr. Frank Irby
Mr. Paul Holloway
Graham Office

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR Granridge Corporation POOL Caprock Queen
ADDRESS Box 752, Breckenridge, Texas MONTH OF February, 19 60
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	
<u>Before Waterflood Response</u>										
Caprock Queen Unit No. 1	7-1	11-27	Pump	--	24	5	0	2	TSTM	TSTM
<u>After Waterflood Response</u>										
	7-1	1-28	Pump	--	24	5	0	7	TSTM	TSTM

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 February 8, 1960

Granridge Corporation
By S. H. Lindley, Jr. S.H. Lindley, Jr.
Engineer
Title