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GRARIDGE CORPORATION
IBEX BUILDING 1133 POST OFFICE BOX 752
BRECKENRIDGE, TEXAS

October 20, 1959

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

RE: Application For Administrative
Approval To Convert One Well
To Water Injection Well In
Artesia Flood No. 2, Eddy
County, New Mexico

Gentlemen:

In accordance with Commission Order No. R-966-E, Graridge Corporation respectively request administrative approval to convert the following well to water injection well.

<u>Lease</u>	<u>Well No.</u>	<u>Location</u>
Ventures State	52	Unit Letter A, Sec. 28, T18S, R28E

The following data pertinent to the proposed expansion are given:

1. The proposed injection well is directly offset by a producing well which has shown response to the waterflood project. See attached Form C-116 and Exhibit No. 1.
2. Exhibit No. 1 indicates all offset operators and injection wells in Artesia Flood No. 2. A copy of this application has been sent to Western Yates Company as they are offset operators to the proposed expansion and their signed waiver is enclosed.
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 a flood balance.

October 20, 1959

4. Exhibit No. 3 gives performance curves for the overall waterflood project.

The subject well has been completed in the following manner. The well was cleaned out to a depth of 2140'. Gamma ray neutron and caliper logs were run. The 4 1/2" 9.5# casing was set at 2088' and cemented with 400 sacks.

Before placing this well on injection, a string of 2 3/8" cement lined tubing will be run with a tension type packer and set at a depth of approximately 2060' which is well below the top of the cement outside the 4 1/2" casing.

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

Very truly yours,

GRARIDGE CORPORATION

B. G. Harrison

B. G. Harrison
Manager of Secondary Recovery

SHL:BGH:gl

Attachments

cc: State Engineers Office
Attn: Mr. Frank Irby
Graham
Mr. Cliff Chapman
Mr. Paul Darnell

GRARIDGE CORPORATION

IBEX BUILDING

POST OFFICE BOX 752

BRECKENRIDGE, TEXAS

October 8, 1959

RECEIVED OCT 12 1959

Western Yates Company
P. O. Box 427
Artesia, New Mexico

ATTENTION: Mr. Bill Macey

Dear Sir:

It is the desire of Graridge Corporation to expand the water injection program in the Artesia No. 2 Flood in Eddy County, New Mexico. The expansion is to include Ventures State Well No. 52 located in NE/4 of NE/4 of Section 28, T-18S, R-28E, as an injection well.

A fifteen-day waiting period is set up by the Commission unless waivers are obtained from all operators offsetting the proposed expansion.

In order to expedite matters, please sign and return one copy of this letter to this office, if your company has no objection to the proposed expansion.

Yours very truly,

GRARIDGE CORPORATION



B. G. Harrison
Manager of Secondary Recovery

Signed by W. B. Macey

For Western Development Company of Delaware
& Yates Brothers

SHL:BGH:gl

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR Granidge Corporation POOL Artesia
 ADDRESS P. O. Box 752, Breckenridge, Texas MONTH OF October, 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	
Ventures State	306	8-18	Pumping	--	24	8	5.7	8	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 October 8, 1959

Granidge Corporation
 Company
 By A. H. Lindley, Jr. S.H. Lindley, Jr.
 Engineer
 Title

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR..... Graridge Corporation..... POOL..... Artesia.....
 ADDRESS..... P. O. Box 752, Breckenridge, Texas..... MONTH OF..... October....., 19⁵⁹.....
 SCHEDULED TEST..... X..... 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	
Ventures State	306	9-24	Pumping	--	24	8	11.5	17.3	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..... October 8, 1959.....

Graridge Corporation
 Company
 By..... *S.H. Lindley, Jr.*..... S.H. Lindley, Jr.
 Engineer.....
 Title

Monthly Water Flood Report

Injection Well Data

Project: Artesia Flood No. 2

Month: August, 1959

Field: Artesia

Formation: 1st Grayburg

Lease & Well No.	Effective Acre-Feet		Total Water		Input B/D/ Ac-Ft.	IBEX* Net Input	Injection Pressure	Total Bbls.	Cumulative Ibox * Net Bbls.	Input Net B/ Net AF
	Total	Ibox	Mo.	Avg/ Day						
McNutt St. 2			6,534	210			1120		174,236	
5			3,170	102			1100		34,109	
6			3,779	140			960		55,584	
8			8,795	284			920		84,896	
Rosier Yates State 13			4,368	141			1115		150,506	
18			5,610	181			1100		160,977	
22			7,152	231			1090		65,235	
39			2,333	75			1020		30,028	
51			3,246	105			1090		123,355	
301			4,998	161			1000		18,262	
304			3,811	123			1005		5,148	

Remarks: continued

Exhibit II

BRARIDGE CORPORATION

Monthly Water Flood Report

Injection Well Data

Project: Artesia Flood No. 2

Month: August, 1959

Field: Artesia

Formation: 1st Grayburg

Lease & Well No.	Effective Acre-Foot		Total Water		Input B/D/ Ac-Ft.	IBEX* Net Input	Injection Pressure	Total Bbls.	Cumulative Input * Net Bbls.	Input Net B/ Net AF
	Total	Ibex	Mo.	Avg/ Day						
Ventures St. 305			7,461	240			960		8,650	
Welch Duke St. 4			6,264	202			1100		49,282	
5			6,637	214			1105		164,751	
7			6,916	223			910		193,223	
10			7,624	246			920		75,287	
15			4,760	154			925		23,849	
16			5,000	200			645		49,495	
** 19			1,883	314			1035		1,883	
** 20			1,558	222			790		1,558	
21			7,702	248			980		8,134	
Totals (21)			109,601	4,016			995 (avg)		1,478,448	

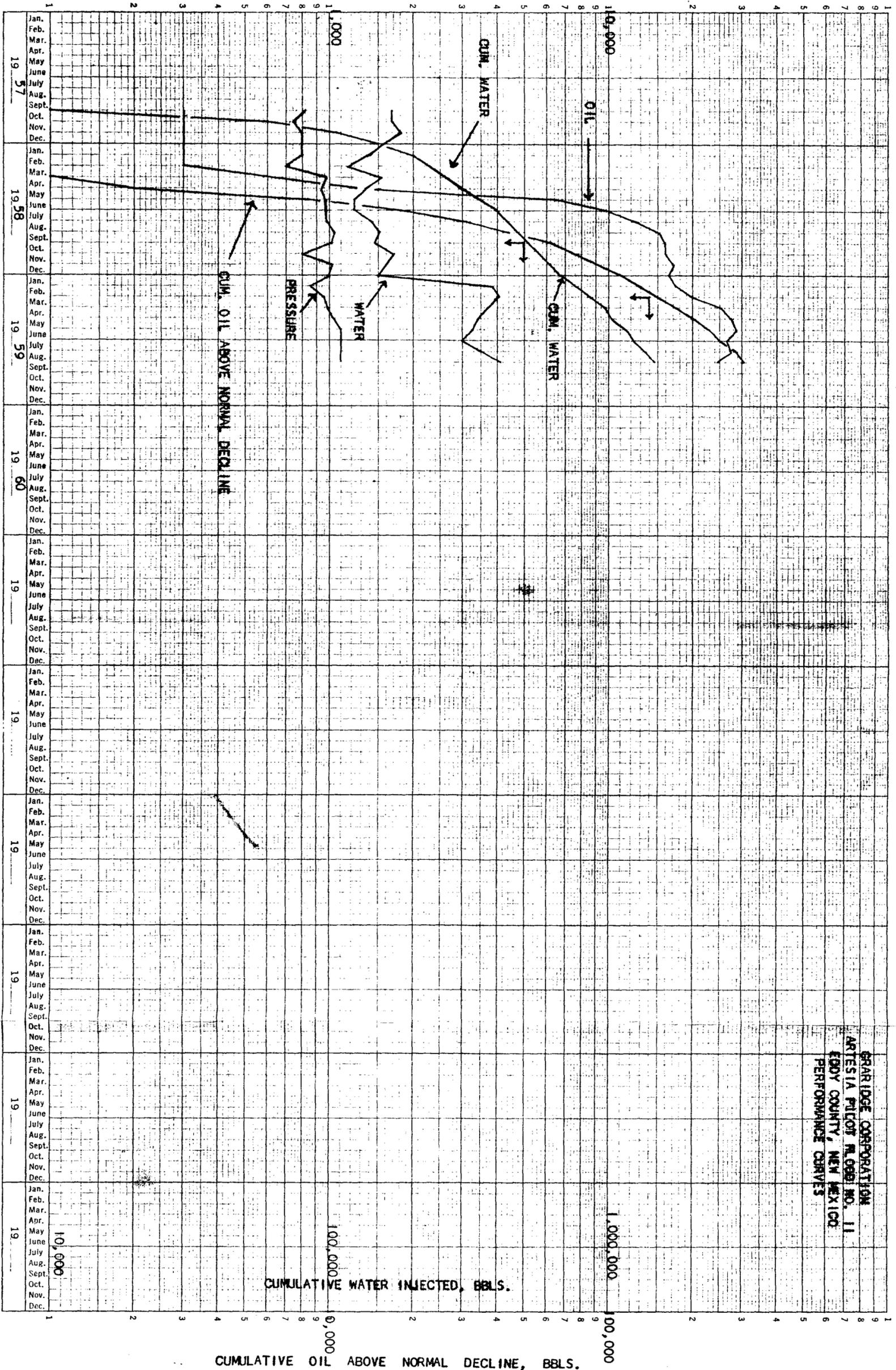
Remarks:

** Injection commenced in Welch Duke State No. 19 August 26 and in Welch Duke State No. 20 on August 25.

INJECTION PRESSURE, PSIG.

WATER INJECTION, BBL/DAY

OIL PRODUCTION, BBL/MO.



GRARIDGE CORPORATION
 ARTESIA PILOT NO. 11
 EDROY COUNTY, NEW MEXICO
 PERFORMANCE CURVES

Exhibit III



STATE OF NEW MEXICO
STATE ENGINEER OFFICE
SANTA FE

S. E. REYNOLDS
STATE ENGINEER

October 23, 1959

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 the Graridge Corporation application for administrative approval to convert one well to water injection well in Artesia Flood #2, Eddy County, New Mexico which was submitted on October 20, 1959. The well to be converted is Ventures State #52 in the NE $\frac{1}{4}$ of Section 28, Township 18 South, Range 28 East.

After reviewing the statements in this application pertaining to the casing and cementing program and the tubing and packer arrangement to be used in the injection, it is my opinion that threat of contamination to fresh waters is not likely to occur as a result of the construction and use of this well. 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-Graridge Corporation
F. H. Hennighausen

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE