

GRARIDGE CORPORATION

IBEX BUILDING

POST OFFICE BOX 752

BRECKENRIDGE, TEXAS

March 7, 1960

*DPK .32
Western Yates
has data Mar 24*

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 a water injection well.

<u>LEASE AND WELL NO.</u>	<u>LOCATION</u>
Resler Yates State No. 303	SE/4, SE/4, Sec. 21, T 18S, R 28E

The following data pertinent to the proposed expansion are given.

(1) The proposed injection well is directly offset by a producer 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 and a waiver form is being sent to Western Yates as they are the offset operator to the proposed expansion. This signed waiver will be forwarded to you as soon as it is received.

(3) Exhibit No. 2 indicates present injection well data. It is evident that some of the injection wells are not as receptive as others, thus, it is desirable to place wells on injection as

GRARIDGE CORPORATION

MONTHLY WATER FLOOD REPORT

Injection Well Data

Project: Artesia Flood No. 2

Month: January, 1960

Lease & Well No.	Total Water Input		Injection Pressure	Cumulative Input
	Month	Avg./Day		
Lackawanna St. 1-A	3,171	102	1,010	8,155
3-A	5,473	176	880	13,675
McNutt State 2	9,062	292	1,180	207,676
5	2,866	92	530	48,488
6	3,338	108	855	80,801
8	9,965	322	970	125,102
11	3,636	117	900	12,003
17	4,224	136	1,000	7,841
Resler Yates 13	3,556	115	1,160	169,463
18	5,346	172	1,150	188,174
22	5,708	184	1,105	96,043
24	5,771	186	965	14,752
39	1,796	60	1,100	40,767
51	3,067	114	1,150	138,614
301	3,529	114	915	37,378
304	3,088	100	1,010	20,973
Ventures St. 52	5,367	173	1,000	12,598
305	3,941	127	1,050	32,319
Welch Duke St. 4	4,606	154	1,100	76,157
5	7,479	241	1,100	197,687

Exhibit II

March 7, 1960

early as responses warrant in order to maintain a balance.

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

The subject well has been completed in the following manner.

Resler Yates State No. 303 was drilled to a total depth of 2212'. The 7" OD 23# J-55 casing was set at 582' and cemented with 200 sacks. Four and one-half inch 9.5# J-55 casing was set at 2203' and cemented with 150 sacks. The first Grayburg sand will be perforated at approximately 2156 to 2180'. Before placing the well on injection, a string of 2 3/8" cement lined tubing will be run with a tension type packer set at a depth well below the top of the cement outside the 4 1/2" casing, approximately 2150'. Water will be injected down the tubing.

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

Yours very truly,

GRARIDGE CORPORATION



B. G. Harrison
Manager of Secondary Recovery

SHL:BGH:gl

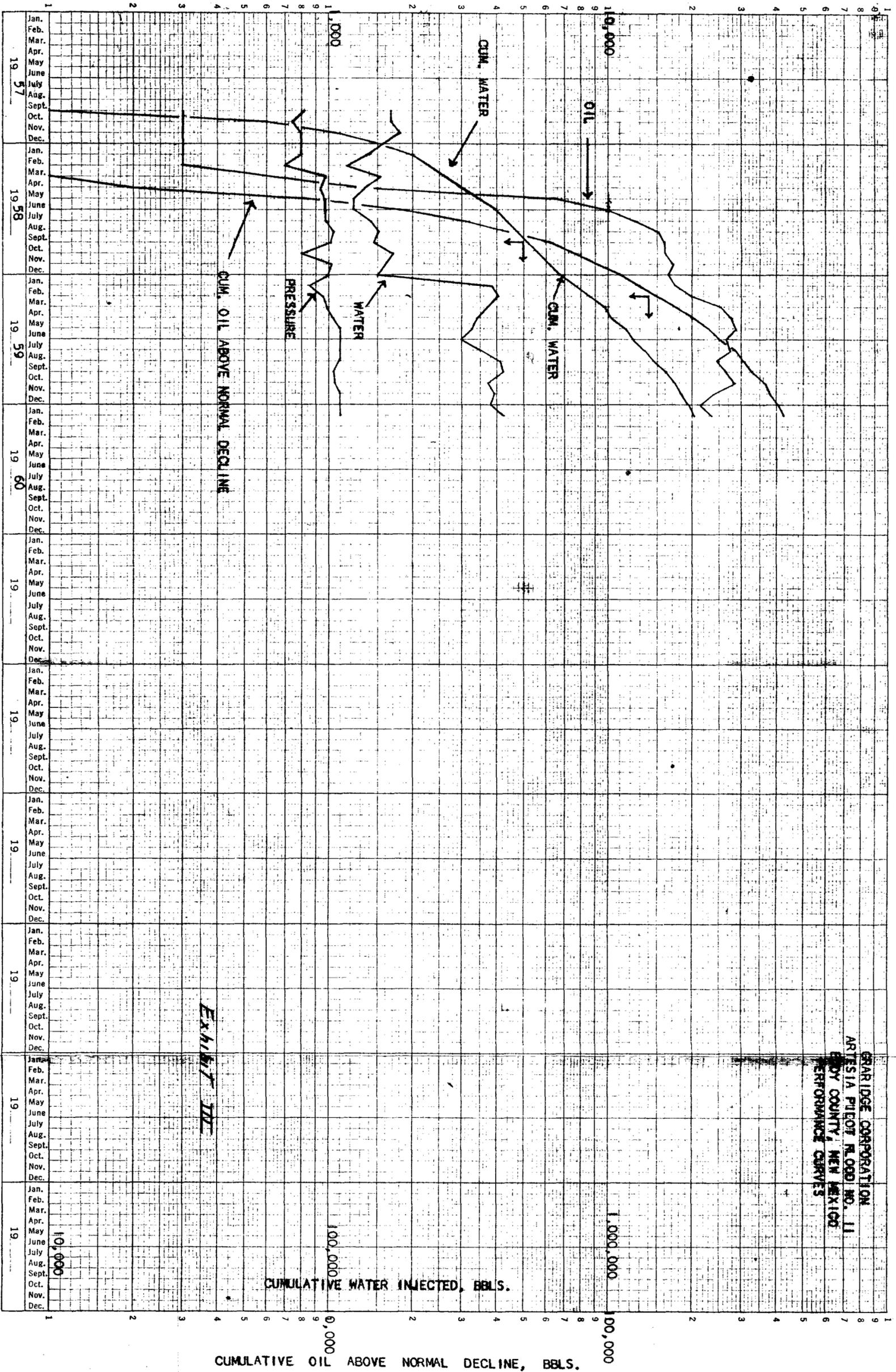
cc: Oil Conservation Commission, Artesia
State Engineers Office
Graham Office
Mr. Cliff Chapman
Mr. Paul Darnell

Attachments

INJECTION PRESSURE, PSIG.

WATER INJECTION, BBL/DAY

OIL PRODUCTION, BBL/MO.



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

EXHIBIT III

CUMULATIVE WATER INJECTED, BBL.

CUMULATIVE OIL ABOVE NORMAL DECLINE, BBL.

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR Graridge Corporation POOL Artesia
 ADDRESS Box 752, Breckenridge, Texas MONTH OF March, 19 60
 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	
<u>BEFORE WATERFLOOD RESPONSE</u>										
esler Yates St.	302	9-2	Pump	--	24	1	0	1/2	TSTM	TSTM
<u>AFTER WATERFLOOD RESPONSE</u>										
esler Yates St.	302	1-25	Pump	--	24	6	0	14	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 March 7, 1960

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



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

March 11, 1960

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

Mr. A. L. Porter, Jr.
Secretary-Director
Oil Conservation Commission
Santa Fe, N. M.

Dear Mr. Porter:

Reference is made to ~~Gran~~ridge Corporation's application for approval to convert one well to water injection well in Artesia Flood No. 2, Eddy County, New Mexico which is dated March 7, 1960.

Having reviewed the manner in which the subject well has been completed and taking into account the statement that injection will be through 2 3/8" cement-lined tubing, I have reached the conclusion that the use of this well as an injection well will not constitute a threat to the quality of fresh waters which may be encountered in the area. Therefore, this office offers no objection to the granting of this application.

Yours truly,

S. E. Reynolds
State Engineer

By:

Frank E. Irby
Frank E. Irby
Chief

Water Rights Division

FEI/ma
cc-B. G. Harrison
F. H. Hennighausen

GRARIDGE CORPORATION

IBEX BUILDING

POST OFFICE BOX 752

BRECKENRIDGE, TEXAS

March 15, 1960

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

Gentlemen:

Attached is a signed waiver from Western-Yates indicating they, as an offset operator, have no objection to the expansion of Artesia Flood No. 2 in Eddy County by conversion of Resler Yates State Well No. 303, Section 21, T18S, R28E, to a water injection well.

Your cooperation in expediting this application will be appreciated.

Yours very truly,

GRARIDGE CORPORATION


S. H. Lindley, Jr.
Engineer

SHL:gl

Attachment

cc: Graham Office

GRARIDGE CORPORATION

IBEX BUILDING

POST OFFICE BOX 752

BRECKENRIDGE, TEXAS

March 7, 1960

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

Dear Sirs:

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 the following well.

<u>LEASE AND WELL NO.</u>	<u>LOCATION</u>
Resler Yates State No. 303	SE/4, SE/4, Sec. 21, T 18S, R 28E

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

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

Yours very truly,

GRARIDGE CORPORATION


B. G. Harrison
Manager of Secondary Recovery

Signed by M. E. Spitzer
For Western - Yates

SHL:BNH:gl

RECEIVED MAR 10 1960

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