

GRARIDGE CORPORATION

IBEX BUILDING

POST OFFICE BOX 752

BRECKENRIDGE, TEXAS

April 27, 1960

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 respectfully request administrative approval to convert the following well to a water injection well.

<u>LEASE AND WELL NO.</u>	<u>LOCATION</u>
Tommey Allen State No. 3	NW/4, SE/4, Sec.28, 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 Kersey & Company 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 early as responses warrant in order to maintain a balance.

April 27, 1960

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

The subject well has been completed in the following manner.

Tommy Allen State No. 3 was re-entered and cleaned out to a total depth of 2076'. The 8" OD 32# casing was set at 698'; we have no record of the amount of cement used. Four and one-half inch 9.5# J-55 casing was set at 2043' and cemented with 125 sacks. 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. Water will be injected down the cement lined tubing and into the open hole interval from 2043'-2076'.

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

Yours very truly,

GRARIDGE CORPORATION

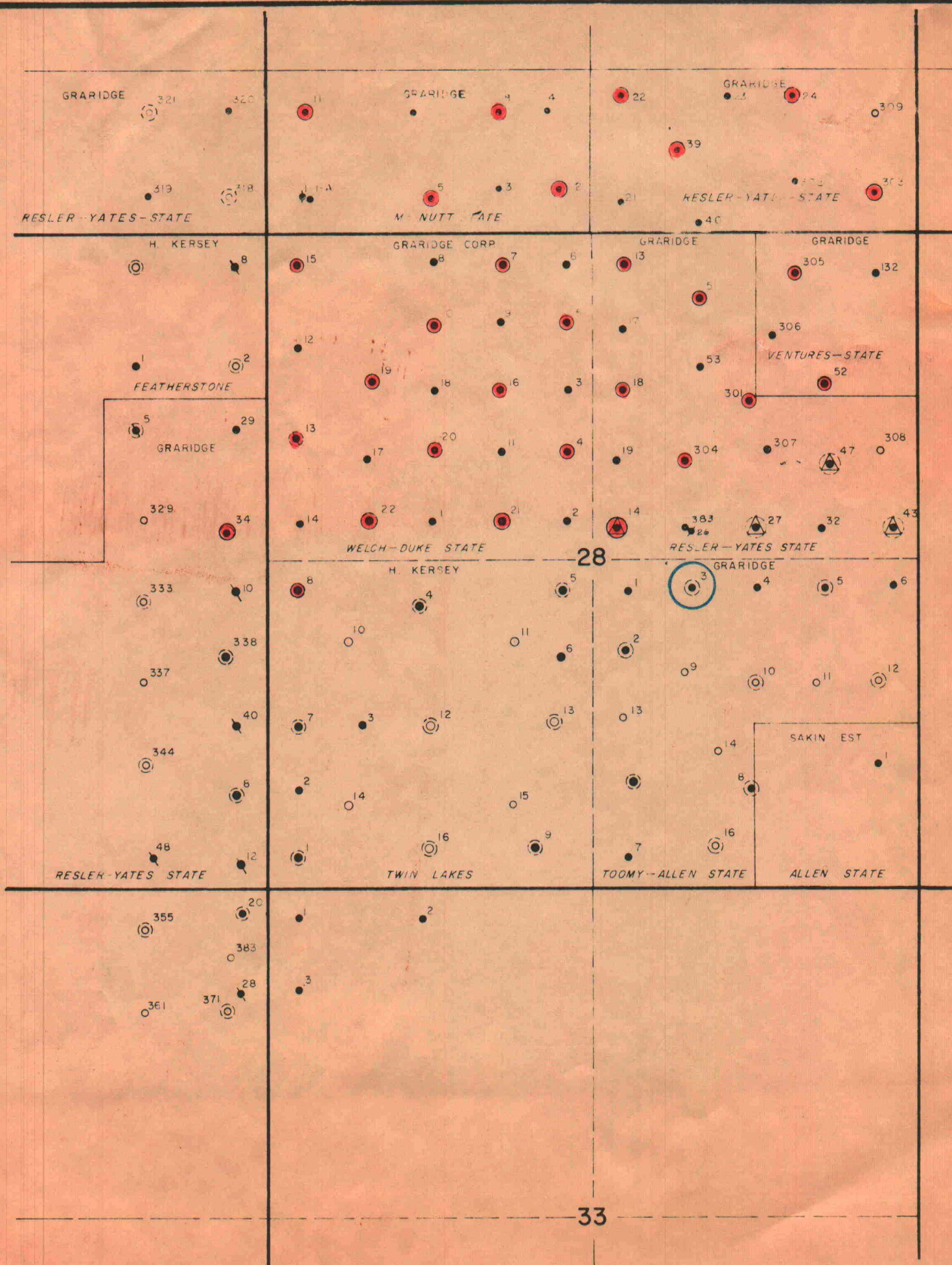


B. G. Harrison  
Manager of Secondary Recovery

SHL:BGH:gl

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

Attachments



T 18 S — R 28 E

PORTION OF ARTESIA FIELD  
Eddy County, New Mexico

Sept, 2, 1959

Exhibit I

Scale: 1" = 1000'

# NEW MEXICO OIL CONSERVATION COMMISSION

## GAS-OIL RATIO REPORT

OPERATOR..... Graridge Corporation..... POOL..... Artesia Pilot No. 2.....  
 ADDRESS..... Box 752, Breckenridge, Texas..... MONTH OF..... April....., 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	
Resler Yates State	383	2-13	Pump		24	30	0	30	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..... April 27, 1960.....

GRARIDGE CORPORATION

By..... *S.H. Lindley, Jr.*..... S.H. Lindley, Jr.  
 Engineer  
 Title

# GRARIDGE CORPORATION

## MONTHLY WATER FLOOD REPORT

Page 11.

### Injection Well Data

Project: Artesia Pilot Flood No. 11

Month: March, 1960

Lease & Well No.	Total Water Input		Injection Pressure	Cumulative Input
	Month	Avg./Day		
Lackawanna St. 1-A	1,632	61	1,020	12,241
3-A	4,156	134	760	21,658
McNutt State 2	3,970	128	1,035	218,154
5	1,535	50	1,000	51,863
6	2,954	95	930	86,970
8	4,512	145	870	135,176
11	5,434	175	940	21,421
13	5,100	164	904	5,882
17	3,748	121	860	15,820
Resler Yates 13	4,013	129	1,030	176,493
State 14	1,130	113	840	1,130
18	3,373	109	1,010	195,201
22	4,216	136	1,010	104,690
24	3,595	116	1,000	22,660
34	1,043	80	950	1,043
39	1,737	56	1,010	43,944
51	2,527	82	1,035	143,497
301	4,222	136	920	46,373
304	1,083	35	1,030	23,807
Ventures St. 52	1,998	64	1,010	18,438

# GRARIDGE CORPORATION

## MONTHLY WATER FLOOD REPORT

Page 11.

### Injection Well Data

Project: Artesia Flood No. 2

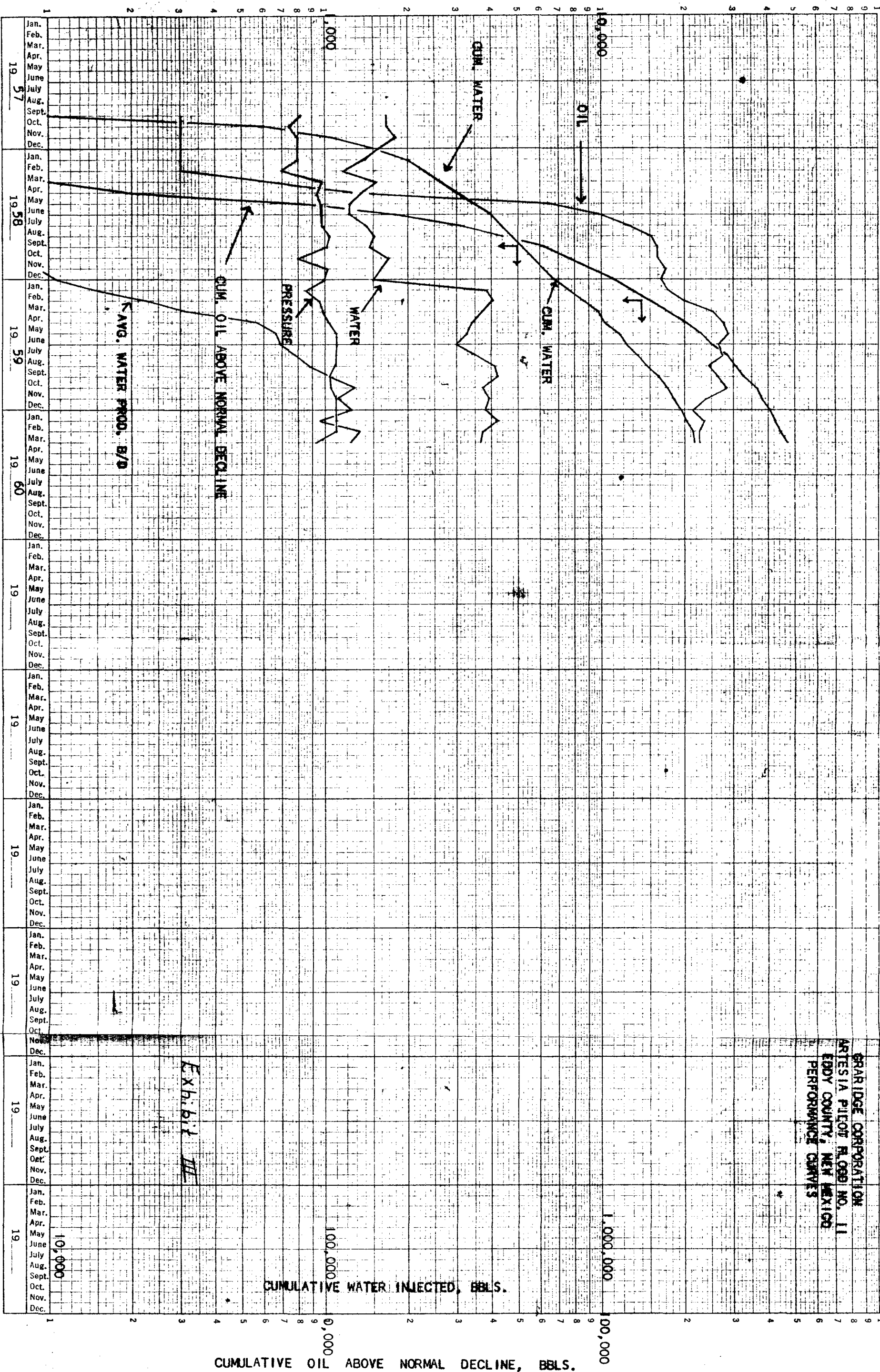
Month: March, 1960

Lease & Well No.	Total Water Input		Injection Pressure	Cumulative Input
	Month	Avg./Day		
Ventures St. 305	2,310	75	1,020	37,408
Welch Duke St. 4	4,090	132	1,020	84,620
5	4,982	161	1,010	20,153
7	6,265	202	880	243,027
10	3,659	166	820	111,394
13	3,390	109	950	13,046
15	6,184	199	910	53,789
16	3,349	115	700	79,949
19	3,098	103	880	28,860
20	2,695	87	720	29,756
21	3,062	99	880	36,700
22	3,121	101	790	11,142
Totals (32)	108,183	3,678	930(avg)	2,284,305

INJECTION PRESSURE, PSIG.

WATER INJECTION, BBLs/DAY  
AVG. WATER PROD. BBLs/DAY

OIL PRODUCTION, BBLs/MO.



Petro-Atlas, Inc.

A SUBSIDIARY OF ATLAS CORPORATION  
2000 NATIONAL BANK OF TULSA BUILDING  
TULSA 3, OKLAHOMA

April 28, 1960

Mr. A. L. Porter, Secretary-Director  
New Mexico Oil Conservation Commission  
P. O. Box 871  
Santa Fe, New Mexico

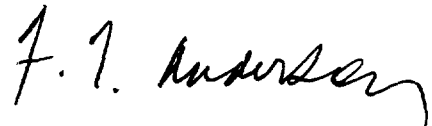
Re: Application of Aztec Oil & Gas Company  
for an Exception to Rule 1(A) of Order  
No. R-128-D for Approval of a Non-Standard  
Gas Proration Unit in the Blanco Mesaverde  
Gas Pool, San Juan County, New Mexico

Dear Mr. Porter:

On behalf of Aztec Oil & Gas Company Mr. Kenneth A. Swanson, their Attorney, has requested that if Petro-Atlas, Inc. has no objection to approval of their Application that the New Mexico Oil Conservation Commission be advised accordingly.

Therefore, this letter is to serve as advice that no objection is made on behalf of Petro-Atlas, Inc. for administrative approval of the Non-Standard Gas Proration Unit, for which Application has been made.

Very truly yours,



F. T. ANDERSON

FTA:jp

cc: Aztec Oil & Gas Company  
920 Mercantile Securities Bldg.  
Dallas 1, Texas  
Attn: Mr. Kenneth A. Swanson

GRARIDGE CORPORATION

IBEX BUILDING

POST OFFICE BOX 752

BRECKENRIDGE, TEXAS

May 4, 1960

w 7x-37

Oil Conservation Commission  
State of New Mexico  
State Capitol Bldg.  
Santa Fe, New Mexico

ATTENTION: Mr. Daniel S. Nutter

Dear Sir:

Attached please find a waiver from Kersey and Company indicating that they have no objection to expansion of Graridge Corporation's Artesia Flood No. 2 to include Toomey Allen State No. 3 (NW/4, SE/4, Section 28, T-18S, R-28E, Eddy County) as a water injection well.

We would appreciate any efforts made by the Commission in expediting approval of this application.

Yours very truly,

GRARIDGE CORPORATION

  
B. G. Harrison

Manager of Secondary Recovery

BGH:gl

Attachment

cc: Graham Office

# GRARIDGE CORPORATION

IBEX BUILDING

POST OFFICE BOX 752

BRECKENRIDGE, TEXAS

April 27, 1960

Kersey & Company  
P. O. Box 305  
Artesia, New Mexico

Gentlemen:

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>
Toomey Allen State No. 3	NM/4, SE/4, Sec.28, 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*

B. G. Harrison  
Manager of Secondary Recovery

Signed by

*Harold Kersey*

For

*KERSEY & Co*

SHL;BGH:gl



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S.E. REYNOLDS  
STATE ENGINEER

May 10, 1960

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

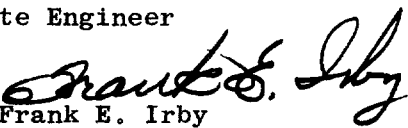
Dear Mr. Porter:

Reference is made to the application of the Graridge Corporation seeking administrative approval to convert one well to water injection well in Artesia Flood No. 2, Eddy County, New Mexico. The specific well in question is the Toomey Allen State No. 3.

It appears that the casing, cementing, tubing and injection method, as set forth in the application, is sufficient to prohibit a threat of contamination to the fresh waters which may exist in the area. Therefore, this office offers no objection to the granting of this application.

Very truly yours,

S. E. Reynolds  
State Engineer

By:   
Frank E. Irby  
Chief  
Water Rights Division

FEI/ma  
cc-Graridge Corporation  
F. H. Hennighausen