IBEX BUILDING

POST OFFICE BOX 752

BRECKENRIDGE, TEXAS

March 2, 1961

Wex-78
Wex-78
What Priest

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 Wells in Artesia Flood No. 2, Eddy

County, New Mexico

Gentlemen:

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

The following data pertinent to the proposed expansion are given:

- (I) 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. I 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 Company as they are the offset operator to the proposed expansion. This 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 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.
- (4) Exhibit No. 3 gives performance curves for the overall waterflood project.

Oil Conservation Commission March 2, 1961 Page 2

Toomey Allen Well No. 16 was completed in the following manner:

8-5/8" surface casing is set at 321' and cemented with 150 sacks, the cement circulated. The hole was drilled to a total depth of 2151'. $4\frac{1}{2}$ " casing is set at 2150' and cemented with 150 sacks. The $4\frac{1}{2}$ " casing will be perforated opposite the First Grayburg formation. Before placing the well on injection, 2-3/8" cement lined tubing will be run with a tension type packer set at a depth well below the cement outside the $4\frac{1}{2}$ " casing. Water will be injected down the tubing through casing perforations into the First Grayburg formation.

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

BGH/vl Attachments (4)

cc: Oil Conservation Commission P.O. Drawer DD Artesia, New Mexico

Mr. Frank Irby

Graham Office

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR	.Gnan	Lugo	Compo	xaxille		POOI	<i>ــــــــــــــــــــــــــــــــــــ</i>	arrosta		······	
ADDRESS	Бох	75 2,	Broo	ekon ridge,	Texas	MON	TH OF	March			, 1961
SCHEDULED TE	ST	•-••·	•••••				everse Side)	SPECIAL	TEST	X	(Check One)
					a		Daily	Produ	iction Dui	ing Test	GOR
Lease		Vell No.	Date of Test	Producing Method	Choke Size	Test Hours	Allowable Bbls.	Water Bbls.	Oil Bbls.	Gas MCF	Cu. Ft. Per Bbl.
BEFORE WATER				60 Pulip	••	24	20	0	9.7	TSTM	TSTM
AFTER WATERF			ONSE -22-6	Pump .	***	24	20	0	21.5	тэтм	TSTM

No well will be assigned an allowable greater than the amount of oil produced on the official test.

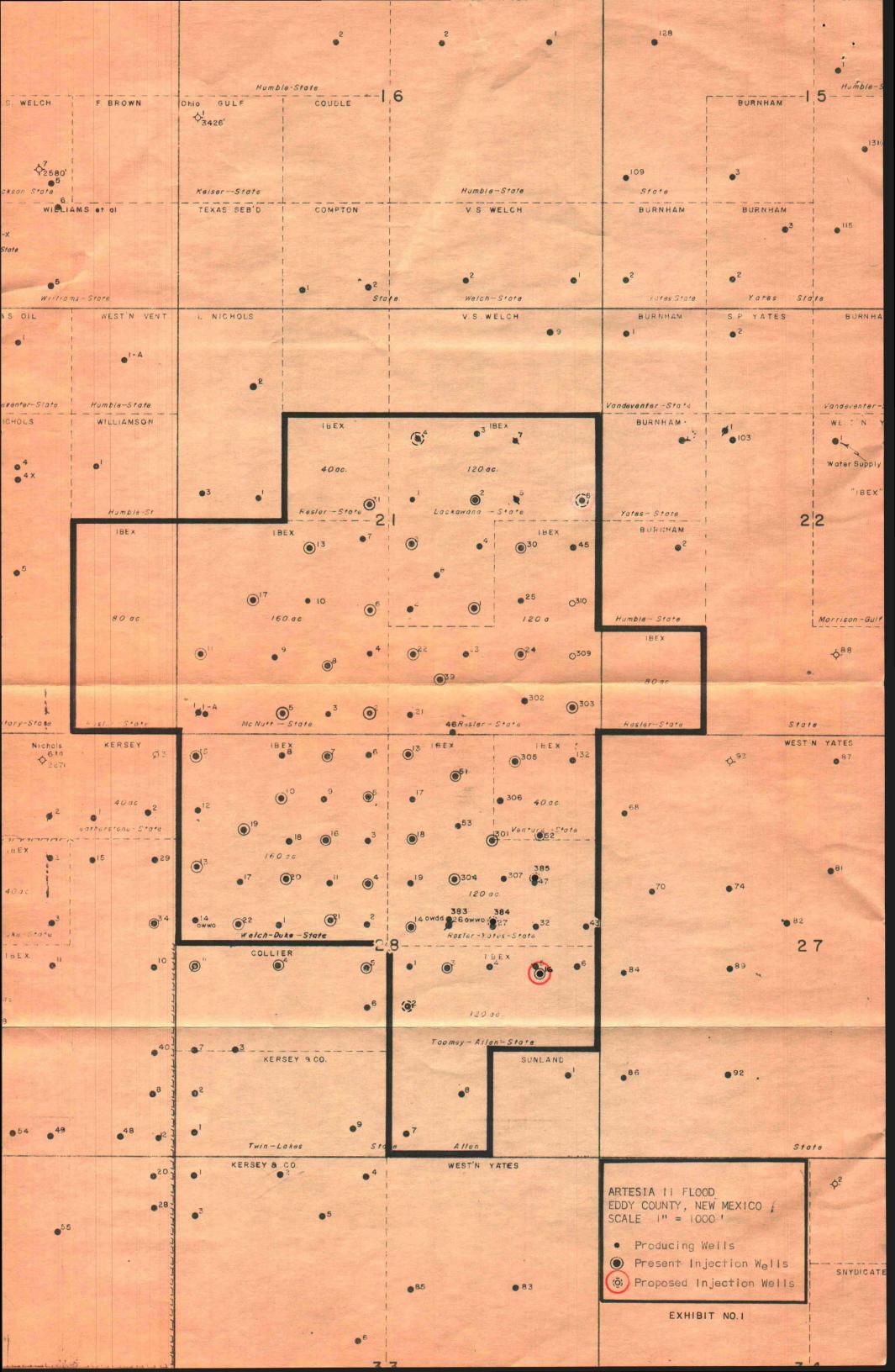
During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized 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 Merch 2, 1961	GRARIDGE CORPORATION
	Company
	Ву
	S. H. Lindley, Jr.
	Englineer .
	Title



MONTHLY WATER FLOOD REPORT

Page 11.

Injection Well Data

Project:	Artesia Flood No.	2	Month:	January, 1961

***************************************			ater Input	Injection		
<u>Lease & Well</u>	No.	Month	Avg./Day	Pressure	Cumulative Input	
Lackawanna State	2	4,893	158	920	17,764	
Lackawanna State "A"	1	3,528	114	1040	54,468	
	3	5,263	170	1050	68,975	
McNutt State	2	6,513	210	1075	277,190	
	5	3,697	119	1055	93,725	
	6	3,564	115	1055	120,704	
	8	5,737	185	1050	191,246	
	11	6,103	197	1055	76,446	
	13	4,702	l 74 ***	1050	34,806	
	17	5,403	l 74	1055	80,684	
Resler Yates State	13	3,719	120	1075	216,335	
	_14	5.483	177	1040	31,791	
	18	3,496	113	1065	229,969	
	22	4,037	130	1065	142,918	
	24	2,361	84 ***	1050	48,082	
	30	1,765	57	1040	14,742	
	31	7,059	228	1020	10,991	
	39	4,152	134	1065	78,724	
****	51	6,508	210	500	187,951	
	301	7,250	234	1060	99,634	

^{*} Based on 14 days

EXHIBIT 2

^{**} Based on 19 days

^{***} Based on 27 days

^{****} Based on 28 days

^{*****} Based on 29 days
****** Based on 30 days

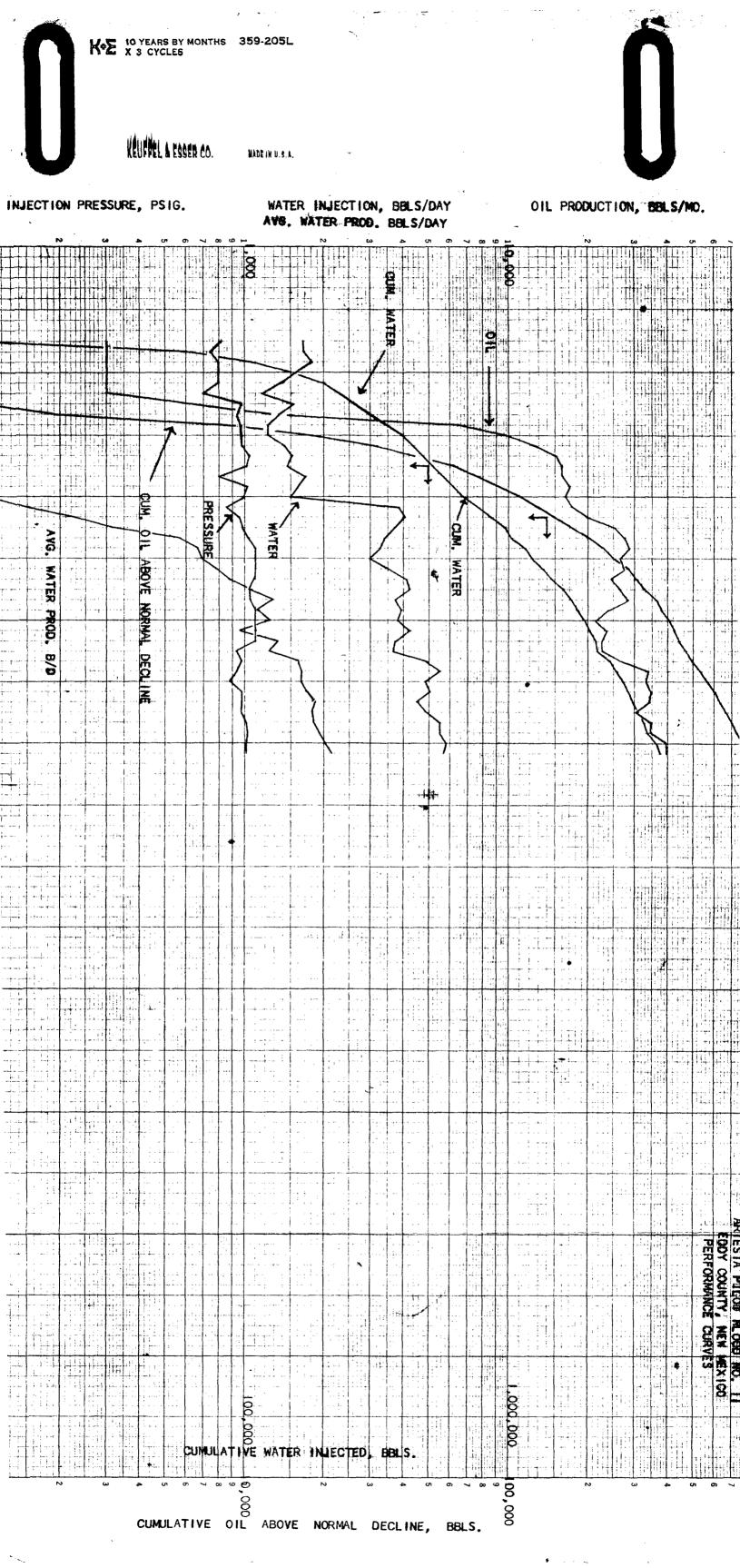
MONTHLY WATER FLOOD REPORT

Page II.

Injection Well Data

Project: Artesia Flood No. 2 Month: January, 196	51
--	----

1 6 14 14 34		later Input	Injection	0	
Lease & Well No.	Month	Avg./Day	Pres sure	Cumulative Input	
Resler Yates State 303	2,764	89	1055	29,060	
304	4,870	157	1050	72,608	
Toomey Allen 3	4,049	131	1055	32,867	
/entures St. 52	3,942	127	1060	63,342	
305	4,967	166 ****	1045	60,148	
Welch Duke State 4	904	48 **	1020	115,366	
5	4,839	156	1000	265,473	
7	5,754	186	1000	304,629	
10	7,420	240	1045	144,876	
13	5,294	171	1040	57,066	
15	6,376	206	1005	109,049	
16	6,029	208****	930	137,984	
19	856	61*	1060	66,715	
20	6,708	216	1045	87,012	
21	5,395	174	1020	72,047	
22	5,994	193	870	79,282	
OTALS (36)	171,394	5,632	1020(avg)	3,774,669	



BEX BUILDING

10 mm

POST OFFICE BOX 752

BRECKENRIDGE, TEXAS

March 2, 1961

Date Received, MAR, 7 1961 ROUTE TO ROUTE TO LC CRA CHR JIMo TAF BCE FPD WFB WEW JWC BGH V FILE: Mail To: Graham WR

Western Yates, Inc. P. O. Box 427 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.

Toomey Allen

WELL NO.

Unit 1, Sec. 28, T185, R286

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

In order to expedite maters, 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

BGH/vI

SIGNED BY M. E. Spetter
Chairman of Operating Committee
FOR WESTERN-YATES



STATE OF NEW MEXICO

STATE ENGINEER OFFICE SANTA FE

S. E. REYNOLDS STATE ENGINEER

March 8, 1961

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 dated March 2, 1961, which seeks administrative approval to convert one well, Toomey Allen, Well No. 16, Unit 1, Section 28, Township 18 South, Range 28 East, Eddy County, New Mexico, to water injection well.

In view of the statement that injection will be through 2 3/8" cement lined tubing with a tension type packer, set at a depth well below the cement outside the $4\frac{1}{2}$ " casing, with injection down the tubing, it appears that there will be no 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.

Yours truly,

S. E. Reynolds State Engineer

Frank E. Iri

Chief

Water Rights Division

ma cc-Graridge Corp.

F. H. Hennighausen

Costs he

OIL CONSERVATION COMMISSION

*XXXXXXXX DRAWER DD

ARTESIA, NEW MEXICO	DATE_	March 9, 1961
OIL CONSTRUCTION OCCURISSION	Re:	Proposed NSP
SANTA FY, NAW MEXICO		Proposed MSL
		P.roposed MFC
		Proposed DC
Gent lement		WFX
I have examined the application dated Marc	ch 9,	1961
for the Graridge Corp. Toomey Allen # 16. Unit	ι.I,	28-185-28 E S-T-R
and my recommendations are as follows:		
heir application on this well seems to be 0. K.		
		makan magamakan magamakan samakan pangkan pangkan an an sa
		errotuura danneers oo sugaayeerskiis oo oo oo sii saada oo oo oo kii saada oo
Yours very troly,		

OIL CONSERVATION COMMISSION

M. L. Armstrong
Supervisor, District No. 2

MLA/sa