

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

Mr. Howard Bratton

January 4, 1962

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additional injection or producing wells are drilled, when additional wells are acquired through purchase or unitization, when wells have received a response to water injection, etc.

Your cooperation in keeping the Commission so informed as to the status of the project and the wells therein will be appreciated.

Very truly yours,

A. L. PORTER, Jr.,
Secretary-Director

ALP/og
Encls.



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

December 1, 1961

ADDRESS CORRESPONDENCE TO:
STATE CAPITOL
SANTA FE, N. M.

Re: Application of Murphy H. Baxter
Waterflood Project
Maljamar Grayburg-San Andres Field

Mr. A. L. Porter, Jr.
Secretary-Director
Oil Conservation Commission
Santa Fe, New Mexico

Dear Mr. Porter:

Reference is made to our letter of November 28, 1961 regarding the above subject. The first paragraph of this letter refers to Mr. Baxter's state leases in Sections 17 and 18, Township 17 South, Range 32 East. The range is in error and should be corrected to read "Range 33."

Yours truly,

S. E. Reynolds
State Engineer

By: *Frank E. Irby*
Frank E. Irby
Chief
Water Rights Division

ma
cc-Philip G. Dolbow
Howard C. Bratton
F. H. Hennighausen

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MURPHY H. BAXTER
507 MIDLAND NATIONAL BANK BUILDING
MIDLAND, TEXAS

November 20, 1961

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

Dear Mr. Porter:

Murphy H. Baxter as operator of three State leases in the Maljamar Grayburg-San Andres Field, Lea County, New Mexico, respectfully requests that a hearing be scheduled before the New Mexico Oil Conservation Commission to consider its application for approval to:

1. Institute a secondary recovery pilot waterflood project on his three State leases in Sections 17 and 18, Range 33 E, T-17-S and in Section 13, Range 32 E, T-17-S.
2. Expand, develop and operate the waterflood project in accordance with all the provisions of Rule 701 of the Commission Rules and Regulations.

The following preliminary information is submitted in support of this application:

1. The area included and sought to be called the Murphy H. Baxter Waterflood Project is made up of these contiguous leases:
 - a. State 17 in N/2 Section 17, Range 33 E, T-17-S
 - b. State 18-B in E/2 Section 18, Range 33 E, T-17-S
 - c. State 18-13 in SW/4 Section 18, Range 33 E, T-17-S
and in SE/4 Section 13, Range 32 E, T-17-S.
2. Each of the three leases contains approximately 320 acres, and each has eight wells producing from the Grayburg and San Andres formations. Top of the Grayburg production is approximately 4175 feet.
3. The proposed pilot waterflood is located on the State 18-B lease which is offset by operators cooperating to complete the pilot pattern.
4. The proposed pattern is a five-spot.
5. The producing wells proposed to be converted to water injection wells are:

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<u>OPERATOR</u>	<u>LEASE AND WELL</u>	<u>UNIT</u>	<u>S.T.R.</u>
Murphy H. Baxter	State 18-B #2	H	18-17-33
Murphy H. Baxter	State 18-B #4	P	18-17-33
Murphy H. Baxter	State 18-B #6	J	18-17-33
Murphy H. Baxter	State 18-B #8	B	18-17-33

6. The water supply will be from the Ogala formation and will be furnished by the Yucca Water Company.

7. Water injection rates will range from 150 to 300 B.W.P.D. per well after fillup.

8. The following attachments, in triplicate, are also submitted as preliminary information:

- a. Plat showing Murphy H. Baxter Waterflood project area with injection wells.
- b. Injection well logs.
- c. Injection well casing completion data.

Respectfully submitted,



Philip G. Dolbow
Petroleum Engineer

PGD/brm
attachments

INJECTION WELL CASING COMPLETION DATA
MURPHY H. BAXTER WATERFLOOD PROJECT
STATE 18-B LEASE

INJECTION WELL NO.	ELEV. KDB	TOTAL DEPTH	COMPLETION INTERVALS	SURFACE CASING			PRODUCTION CASING			BIT SIZE
				SIZE	DEPTH	SXS.CEMENT	SIZE	DEPTH	SXS.CEMENT	
2	4222'	4591'	4218 - 31 4270 - 79 4300 - 18 4344 - 68 4441 - 60 4534 - 50	8-5/8"	293'	200 & Cir.	5½"	4593'	270	7-13/16"
4	4220'	4639'	4200 - 14 4264 - 74 4308 - 18 4334 - 43 4360 - 76 4492 - 50 4572 - 85	8-5/8"	325'	250 & Cir.	5½"	4628'	260	7-7/8"
6	4220'	4573'	4193 - 207 4265 - 87 4305 - 11 4322 - 41 4447 - 55 4530 - 40	9-5/8"	316'	150 & Cir.	5½"	4573'	260	7-7/8"
8	4226'	4544'	4148 - 60 4180 - 90 4238 - 48 4254 - 68 4280 - 85 4299 - 320 4508 - 22	8-5/8"	329'	150 & Cir.	5½"	4544'	260	7-7/8"