

MURPHY H. BAXTER  
1126 VAUGHN BUILDING  
MIDLAND, TEXAS 79704

October 1, 1964

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

Re: Application for Administration Approval for  
Conversion of One Well to Water Injection,  
Maljamar Field, Lea County, New Mexico

Gentlemen:

As provided in the OCC Order No. R-2156 and Rule 701 of the OCC Rules and Regulations, Murphy H. Baxter as an operator requests administrative approval for the conversion to water injection of the following well which is located in the project area:

Baxter - State 18-13 Well No. 4, located in Unit J of Section 13,  
Township 17 South, Range 32 East, N.M.P.M., Lea County,  
New Mexico.

Attached to this letter is a plat of the project area showing all producing and injection wells on the subject and offset leases.

The Baxter-State 18-13 Well No. 3, which is an east offset to the proposed water injection well, has experienced a substantial response to water injection. The No. 3 tested 13 barrels per oil during June, 1964, and tested 84 BOPD during September, 1964. The Form C-116 for the above tests are attached to this letter.

Copies of this application have been sent to the offset operator, Great Western Drilling Company and to the State Engineer in Santa Fe.

It is respectfully requested that permission to convert State 18-13 Well No. 4 to water injection be granted at this time as this well will complement the present water injection pattern and will increase ultimate recovery.

Yours very truly,

MURPHY H. BAXTER

*W. U. Sumner*

By W. U. Sumner  
Petroleum Engineer

Attachments -

cc: Great Western Drilling Company, P. O. Box 1659, Midland, Texas  
State Engineer, P. O. Box 1069, Santa Fe, New Mexico

MA  
130 1964 OCT 1  
W-185  
Due 10-20

## NEW MEXICO OIL CONSERVATION COMMISSION

## GAS-OIL RATIO REPORT

MAIN OFFICE

OCT 5 1964

OPERATOR MURPHY H. BAXTER POOL MALJAMAR (G-SA)  
ADDRESS 1126 VAUGHN BLDG., MIDLAND, TEXAS MONTH OF JUNE, 19 64  
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	
STATE 18-13	3	6/28	P	--	24	15	0	13	56	4308

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 1, 1964

MURPHY H. BAXTER

By W. H. Sumner

PETROLEUM ENGINEER

Title

## NEW MEXICO OIL CONSERVATION COMMISSION

## GAS-OIL RATIO REPORT

OPERATOR MURPHY H. BAXTER POOL MALJAMAR (G-SA)  
ADDRESS 1126 VAUGHN BLDG., MIDLAND, TEXAS MONTH OF SEPTEMBER, 19 64  
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	
STATE 17	4	9/21	P	--	24	17	0	39	18	472
	5	9/17	P	--	24	30	0	39	19	495
STATE 18-13	1	9/ 1	P	--	24	42	7	93	95	1022
	3	9/15	P	--	24	57	5	84	75	893

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 1, 1964

MURPHY H. BAXTER

By W. U. Sene

PETROLEUM ENGINEER

Title

State 18-13, Well No. 4  
Unit J, Sec. 13, T-17-S, R-32-E

Cemented with  
125 sxs 4% gel  
Reg. Cement.  
Cement Circulated

Surface Casing  
8-5/8", 24#, J-55

Set at 207'

Tubing Plastic Coated  
2-3/8", EUE, 4.7#, J-55

Oil String Cmt'd  
with 150 sxs 4% gel  
cmt. & 1200 gals. of  
Cealment.

Oil String  
5-1/2", 14#, J-55 Casing

2550' Top of Cement

Tension Packer to be  
Set at 3950'

4029' Top of Perforations

4362' Bottom of  
Perforations

MURPHY H. BAXTER  
Schematic Drawing  
State 18-13, Well No. 4  
Proposed Injection Well  
Maljamar (G-SA) Field  
Lea County, New Mexico

Date: October 1, 1964

**Insert**

**Color Page/Photo**

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STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

MAIN OFFICE 000

\*64 OCT 8 PM 1:00

S. E. REYNOLDS  
STATE ENGINEER

October 7, 1964

ADDRESS CORRESPONDENCE TO:  
STATE CAPITOL  
SANTA FE, N. M.  
87501

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

Dear Mr. Porter:

Reference is made to the application of Murphy H. Baxter which seeks administrative approval for conversion of his Baxter State 18-13 well No. 4 in the Maljamar Field to water injection.

The diagrammatic sketch submitted with the application shows that injection will be through plastic-coated tubing under a packer set well below the top of the cement surrounding the 5½" oil string. It appears that this construction will be sufficient to prevent any threat of contamination to the fresh waters which may exist in the area. 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 Div.

FEI/ma  
cc=W. U. Sumner  
F. H. Hennighausen