

**TREAT-RITE CHEMICAL CO., INC.**

CHEMICAL AND BACTERIAL ANALYSIS OF WATER

WATER CONSULTANTS

P. O. BOX 548

PHONE 486

MONAHANS, TEXAS

June 6, 1956

Mr. Barney Cockburn  
Box 105  
Artesia, New Mexico

Subject: Recommendations relative to analysis No. M6562 (6-4-56),  
Federal Lease.

Dear Mr. Cockburn,

This analysis is limited due to the lack of field analyses. However, the very low solids content will undoubtedly leave the water relatively corrosive. This is due to the fact that water (without some solids) naturally wants something, due to the salt deficiency. The presence or absence of oxygen is a significant factor. Its presence will render the water considerably more corrosive. Consequently, it is suggested that protective coatings be used (cement lining would be preferable.).

The analysis indicates that filtration is not essential. However, it should be taken into consideration that occasional impurities will undoubtedly give rise to some insoluble materials. If observations indicate that impurities are very uncommon, it is recommended that filtration not be included. The sample showed no sand, but a sand trap should be used as a safeguard.

The nature of the water makes it probable that it will not readily support bacterial growth. This is not definite however, and should be checked after about three or four weeks of operation.

As to whether the system should be open or closed will depend entirely on the oxygen content of the water.

Please contact me for any further information or discussion.

Yours very truly,

Waylan C. Martin  
Texas Div. Mgr.

WCM/gt

cc: Buckles & Hostetler

*Wrens  
9/13/56  
All*

RECEIVED  
SEP 13 1956  
1:00



*then*  
*Case #1094*  
*File*

STATE OF NEW MEXICO  
STATE ENGINEER OFFICE  
ROSWELL

S. E. REYNOLDS  
STATE ENGINEER

ADDRESS CORRESPONDENCE TO:  
P. O. BOX 810  
ROSWELL, N. M.

September 13, 1956

Mr. A. J. Losee  
Attorney at Law  
Carper Building  
Artesia, New Mexico

Re: Case 1094 - Application of  
Barney Cockburn to water  
flood in Sec. 33 and 24,  
Twp. 17S, Rge. 33 E.

Dear Mr. Losee:

Please refer to my letter of July 13, 1956, addressed to Mr. Warren A. Mankin, Oil Conservation Commission. After writing this letter, I have reviewed the policy considerations with Mr. Irby, Chief of the Water Rights Division, and also with our legal advisors.

It may well be that the statement in my letter of July 13th, as follows, "This office has no objections whatsoever to the drilling or use of water wells located in Section 33, as this section is not in a declared underground water basin, and is therefore not subject to the control of the State Engineer." is somewhat misleading. Correctly stated I should have pointed out that the policies of the State of New Mexico is that which is declared by the legislature. The pertinent provisions of the statutes regarding drilling in undeclared basins is found in Sec. 75-11-19, Sec. 75-11-21 and Sec. 75-11-22, NMSA 1953. Sec. 75-11-21 reads: "No permit and license to appropriate underground water shall be required except in basins declared by the State Engineer to have reasonably ascertainable boundaries." Since the State Engineer is governed by this provision, I should have merely stated that no permit and license is required to drill wells in Section 33.

Mr. A. J. Losee

-2-

July 13, 1956

In order to complete a valid appropriation of underground water in New Mexico, whether it be from declared or undeclared basin, the water must be placed for beneficial use therefore my previous letter should not be construed as a decision by the State Engineer as to whether water flooding is or is not beneficial use.

It may well be that there is no difference for your purpose between this letter and the previous one written on July 13th but the State Engineer is anxious to avoid any statements which could be construed as going beyond the policy as pronounced by the legislature.

Very truly yours,

  
F. H. Hennighausen  
Acting District Supervisor

FHH:mr

cc: State Engineer  
Santa Fe, New Mexico

Warren Mankin  
Capitol Building  
Santa Fe, New Mexico

MAIN OFFICE 000

1:13

A. J. LOSEE  
ATTORNEY AT LAW  
CARPER BUILDING - P. O. BOX 644  
ARTESIA, NEW MEXICO  
2 August 1956

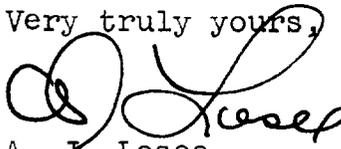
Mr. Warren W. Mankin  
Oil Conservation Commission  
P. O. Box 871  
Santa Fe, New Mexico

Re: Commission Case 1094  
Barney Cockburn-Applicant

Dear Mr. Mankin:

In accordance with our telephone conversation of yesterday, I enclose original and one copy of proposed order approving the application of Barney Cockburn to water flood the Red Sand Formation of the Corbin Pool reservoir.

Thank you in advance for your attention to this matter.

Very truly yours,  
  
A. J. Losee

AJL:NW  
Enclosure

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

August 23, 1956

C  
O  
P  
Y

Mr. A. J. Losee  
Attorney-At-Law  
P.O. Box 644  
Artesia, New Mexico

Dear Sir:

On behalf of your client, Barney Cockburn, we enclose two copies of Order R-856 issued August 16, 1956, by the Oil Conservation Commission in Case 1094, which was heard on July 11th at Hobbs.

Very truly yours,

A. L. Porter, Jr.  
Secretary - Director

brp  
Encls.

# PHILLIPS PETROLEUM COMPANY

BARTLESVILLE, OKLAHOMA

PRODUCTION DEPARTMENT

L. E. FITZJARRALD  
MANAGER

July 5, 1956

EARL GRIFFIN  
GENERAL SUPERINTENDENT  
JACK TARNER  
TECHNICAL ADVISER TO MGR  
H. S. KELLY  
CHIEF ENGINEER

In re: Barney Cockburn Application to Inject Water Into  
the Queens Sand - Corbin Pool - Parts of Sections 33  
and 34, Township 17 South, Range 33 East, Lea County,  
New Mexico

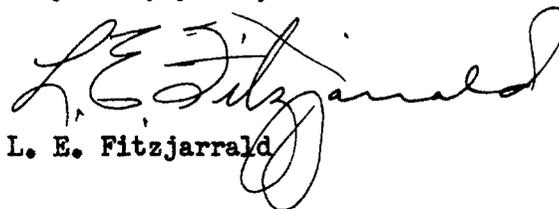
Mr. Charles Miller  
P. O. Box 385  
Hobbs, New Mexico

Dear Mr. Miller:

This is in response to the subject application filed  
by Barney Cockburn for water injection into the Queens Sand in  
the above described properties.

Phillips Petroleum Company has no objections to the  
application or to the injection of water into the Queens Sand.

Very truly yours,

  
L. E. Fitzjarrald

LEF:ZZH:dr



# CARPER

MAIN OFFICE OCC

# DRILLING COMPANY, INC.

O I L P R O D U C T I O N A N D D R I L L I N G

1956 JUL 9 AM 1:17

EMERY CARPER, PRESIDENT  
STANLEY CARPER, EXEC. VICE-PRES. & TREAS.  
MARSHALL ROWLEY, VICE-PRES.  
NELLE BOOKER, SECRETARY

ARTESIA, NEW MEXICO  
CARPER BUILDING  
TELEPHONE 147 L. D. 847

7 July 1956

*Case #1094*

Oil Conservation Commission  
Capital Building  
Santa Fe, New Mexico

Re: Oil Conservation Commission  
Case No. 1094

Gentlemen:

We have received a copy of the Application of Barney Cockburn for permission to inject water into the Red Sand (Queen) horizon of the Corbin Pool Reservoir through Wyatt-Phillips Well No. 5, Section 33, Wyatt-Phillips Wells No. 6 and 8, Section 34, all in Township 17 South, Range 33 East, N.M.P.M., Lea County, New Mexico, and for permission to continue to produce oil from the Grayburg-San Andres formation of the Maljamar Pool reservoir through the said Wyatt-Phillips Well No. 8.

Please be advised that as a offset operator to Barney Cockburns' Wyatt-Phillips and Federal Leases we have no objection to the proposed water flood project and dual completion of Wyatt-Phillips Well No. 8.

Very truly yours,

CARPER DRILLING COMPANY

By: *Marshall Rowley*  
Vice President

C. C. United States Geological Survey  
Post Office Box 6721  
Roswell, New Mexico

BEFORE THE  
OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO  
*Carper* EXHIBIT No. *1*  
CASE 1094



MAIL OFFICE 000

RECEIVED JUL 13 1956

STATE OF NEW MEXICO

STATE ENGINEER OFFICE

ROSWELL

S. E. REYNOLDS  
STATE ENGINEER

July 13, 1956

ADDRESS CORRESPONDENCE TO:  
P. O. BOX 810  
ROSWELL, N. M.

File: III-C

Mr. Warren W. Mankin  
Oil Conservation Commission  
Capitol Building  
Santa Fe, New Mexico

Re: Case 1094 - Application of  
Barney Cockburn to water flood  
in Sec. 33 and 34, Twp. 17S, Rge. 33E

Dear Sir:

I have examined the application of Barney Cockburn to inject water into the red sand of the Corbin Pool for water flooding purposes in Sections 33 and 34, Township 17 South, Range 33 East.

This office has no objections whatsoever to the drilling or use of water wells located in Section 33 as this section is not in a declared underground water basin and is therefore, not subject to the control of the State Engineer.

The two water wells shown on exhibit A of Mr. Cockburn's application are located respectively in the NE $\frac{1}{4}$ NW $\frac{1}{4}$  and NE $\frac{1}{4}$ SE $\frac{1}{4}$  of said Section 33.

Should Mr. Cockburn desire at a later date to drill any water wells in Section 34, Township 17 South, Range 33 East, N.M.P.M., it will be necessary for him to follow the normal procedure set forth in the State Engineer's Manual of Rules and Regulations, as Section 34 is within the limits of the Lea County Underground Water Basin. At this time, I can see no apparent reason why Mr. Cockburn should not be given approval for any wells drilled in Section 34, as there is a large amount of unappropriated water still available in that area.

There are no laws or regulations which would prohibit Mr. Cockburn from importing from water outside of the declared basin for use within the declared basin.

Yours truly,

*F. H. Hennighausen*  
F. H. Hennighausen  
Acting District Supervisor

FHH\*td