

JOHN H. TRIGG COMPANY

P. O. BOX 5629

ROSWELL, NEW MEXICO

MAIN OFFICE OCC

1960 AUG 12 AM 8:23

August 12, 1960

Oil Conservation Commission  
Post Office Box 871  
Santa Fe, New Mexico

SUBJECT: Application for Administrative Approval  
to convert three producing oil wells to  
water injection wells.

REFER: Commission Order R-1456, Case 1714

Gentlemen:

John H. Trigg, the operator of a waterflood project in the Caprock Queen Pool, Chaves County, New Mexico, hereby applies for administrative approval to expand said waterflood project. The expansion will be accomplished by the conversion of three (3) unit producing oil wells within the John H. Trigg Waterflood Project. These three wells are particularly located as follows;

Federal Trigg #16-4 NW/NE of Section 4, Township 14-S, Range 31-E.  
Federal Trigg #21-4 SE/SW of Section 4, Township 14-S, Range 31-E.  
Federal Trigg #23-4 SE/NW of Section 4, Township 14-S, Range 31-E.

The following statements are submitted in support of the above proposed expansion and conversion;

1. Order R-1456 provides for the conversion of additional wells to water injection in said project area without hearing and notice upon administrative approval.
2. The conversion of the aforementioned wells will not in any way impair correlative rights and will not cause waste.
3. Wells #16, 21 and 23 are directly offset by wells #8, 13 and 15 respectively, which have received a substantial increase in oil production due to waterflood stimulation. We attach Commission Form C-116 to indicated oil production from these wells before and after stimulation.
4. The proposed injection wells comply with the established flood pattern approved for the Caprock Queen Pool.
5. All offset operators have been notified with a copy of this application by Registered Mail.
6. The State Engineer has on file a copy of this application, plus a schematic drawing of the method by which we will inject water.

*WIX-49*  
*Waterflood Project*  
*See Note 7/6/60*

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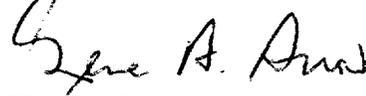
August 12, 1960

Page 2 of 2 pages

7. A plat of the project area as established for John H. Trigg by Order R-1456 is enclosed. Operators of oil wells, present injection wells, proposed injection wells and property boundaries are indicated.
8. Water will be injected into the Queen Sand formation through tubing with a packer set immediately above the producing formation. Refer to attached schematic drawing.
9. The John H. Trigg Project is located in Sections 4 and 9 of Township 14-South, Range 31-East, and the SE $\frac{1}{4}$  of Section 34, Township 13-S, Range 31-E. We have encountered no fresh water sands underlying the above property.

John H. Trigg respectfully requests the State Engineer to file a waiver of objection with Mr. A. L. Porter, Jr., Secretary-Member of the New Mexico Oil Conservation Commission in Santa Fe, New Mexico pertaining to this application.

Respectfully submitted;  
JOHN H. TRIGG COMPANY



Gene A. Snow  
Gene A. Snow  
Production Superintendent

Encl: 2

GAS:ka

cc: 3<sup>✓</sup> Oil Conservation Commission, Santa Fe, New Mexico  
1-- State Engineer's Office, Santa Fe, New Mexico  
1-- Cities Service Oil Company, Hobbs, New Mexico  
1-- File

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR JOHN H. TRIGG COMPANY POOL CAPROCK QUEEN  
 ADDRESS P.O. BOX 106, MALJAMAR, NEW MEXICO MONTH OF AUGUST, 19 60  
 SCHEDULED TEST..... COMPLETION TEST..... SPECIAL TEST XXXXXXX (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 |                      |
| Federal Trigg            | 8        | 8-59         | Pump             | None       | 24         |                       | 0                      | 12        |         |                      |
| Federal Trigg            | 13       | 8-59         | Pump             | None       | 24         |                       | 0                      | 8         |         |                      |
| Federal Trigg            | 15       | 8-59         | Pump             | None       | 24         |                       | 0                      | 20        |         |                      |
| Before Water Stimulation |          |              |                  |            |            |                       |                        |           |         |                      |
| Federal Trigg            | 8        | 8-5-60       | Pump             | None       | 24         |                       | 0                      | 20        |         |                      |
| Federal Trigg            | 13       | 8-8-60       | Pump             | None       | 24         |                       | 0                      | 42        |         |                      |
| Federal Trigg            | 15       | 8-2-60       | Pump             | None       | 24         |                       | 0                      | 53        |         |                      |
| After Water Stimulation  |          |              |                  |            |            |                       |                        |           |         |                      |

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 August 13, 1960

JOHN H. TRIGG COMPANY

Company

By Jene A. Snow by Ken Astor

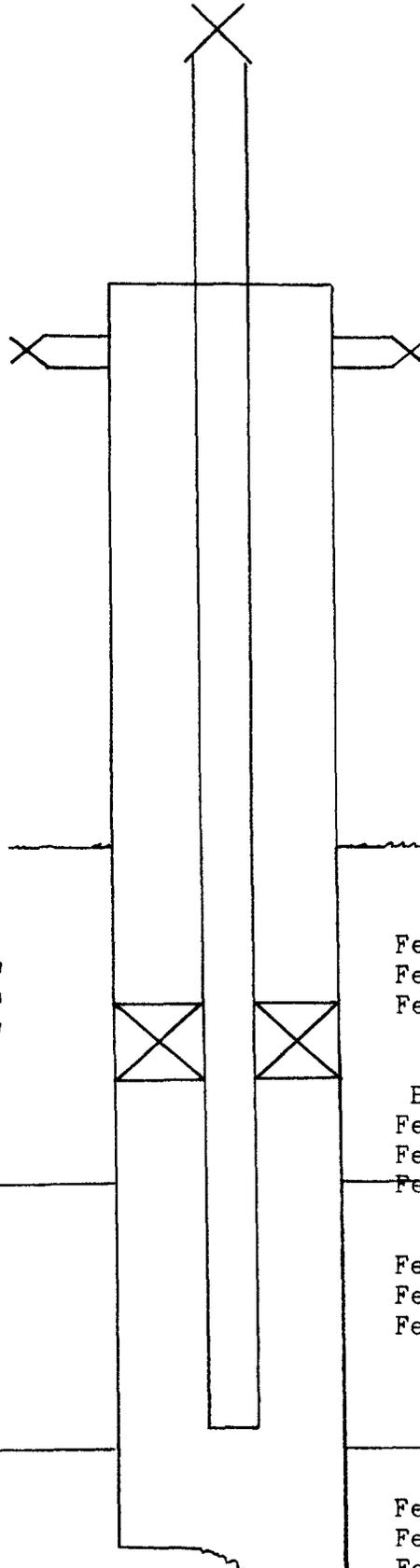
Prod. Supt.

Title

JOHN H. TRIGG COMPANY

P. O. BOX 5629

ROSWELL, NEW MEXICO



APPROXIMATE PACKER SETTING

Federal Trigg #16 ----- 2770'  
Federal Trigg #21 ----- 2700'  
Federal Trigg #23 ----- 2750'

CALCULATED CEMENT TOP

Federal Trigg #16 ---- 2128'  
Federal Trigg #21 ---- 2125'  
Federal Trigg #23 ---- 2105'

BOTTOM OF PRODUCTION CASING

Federal Trigg #16 ---- 2804'  
Federal Trigg #21 ---- 2803'  
Federal Trigg #23 ---- 2781'

CASING PERFORATIONS

Federal Trigg #16 ---- Open Hole  
Federal Trigg #21 ---- 2762-75'  
Federal Trigg #23 ---- Open Hole

TOTAL DEPTH

Federal Trigg #16 ---- 2820'  
Federal Trigg #21 ---- 2801'  
Federal Trigg #23 ---- 2799'



MAIN OFFICE

1960 AUG 27  
STATE OF NEW MEXICO

STATE ENGINEER OFFICE  
SANTA FE

S. E. REYNOLDS  
STATE ENGINEER

ADDRESS CORRESPONDENCE TO:  
P. O. BOX 1079  
SANTA FE, N. M.

August 24, 1960

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

Dear Mr. Porter:

Reference is made to the application of John H. Trigg Company, Roswell, New Mexico which seeks to convert the following three wells to water injection wells under Commission Order R-1456:

Federal Trigg #16-4 NW $\frac{1}{4}$ NE $\frac{1}{4}$

Federal Trigg #21-4 SE $\frac{1}{4}$ SW $\frac{1}{4}$

Federal Trigg #23-4 SE $\frac{1}{4}$ NW $\frac{1}{4}$

all of which are in Section 4, Township 14 South, Range 31 East.

In view of the fact that injection will be through tubing and packer with packet set below top of cement between 2700 and 2800 feet, it appears that no threat of contamination to any fresh waters which exist in the area will occur. Therefore, this office offers no objection to the granting of this application.

Very truly yours,

S. E. Reynolds  
State Engineer

By:

*Frank E. Irby*  
Frank E. Irby  
Chief

Water Rights Division

FEI/ma  
cc-F. H. Hennighausen  
John H. Trigg Co.

