



March 18, 1965

R. C. TUCKER, PRES.

New Mexico Oil Conservation Commission
Santa Fe, New Mexico

PHONE MU 2-5241
ADDRESS REPLY TO:
BOX 1659
MIDLAND, TEXAS

Re: Great Western Drilling Company
North Central Caprock Queen

Attention: Mr. A. L. Porter

Gentlemen:

Great Western Drilling Company, operator of the North Central Caprock Queen Unit, Lea and Chaves County, New Mexico, requested administrative permission to convert three wells in the central part of Section 14 to water injection.

<u>Well</u>	<u>Location</u>
14-5	SW/4 of NW/4 Section 14, T-31-E, R-13-S
14-7	SW/4 of NE/4 Section 14, T-31-E, R-13-S
14-9	NE/4 of SE/4 Section 14, T-31-E, R-13-S

Two of these wells have been shut-in for some time, well 14-7 since April 1964 and 14-5 since June 1964. Both produced water only on their latest tests. Well 14-5 has produced 98,314 barrels of oil, and well 14-7 produced 141,835 barrels since Unitization. Well 14-9 made 5 barrels of oil, plus 150 barrels of water on tests in February 1964. This well has produced 56,906 barrels of oil since injection.

The Unit operators voted to convert the above three wells to injection as an experiment to see if more recovery of oil can be economically obtained.

This area is in the last stages of secondary recovery, and we believe the Commission should allow such a request in a search for the increase in secondary oil. There are no offset operators in this area to the above wells.





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R. C. TUCKER, PRES.

PHONE MU 2-5241
ADDRESS REPLY TO:
BOX 1659
MIDLAND, TEXAS

The North Central Caprock Queen Unit has produced 1,603,586 barrels of oil since Unitization as of March 1, 1965. The production for February was 6,471 barrels of oil and 60,000 barrels of water which was reinjected with 50,000 barrels of water source fluid. This unit produces very little gas. The heater treaters have used but ne during the past two years for sufficient fuel.

Enclosed please find three plats of this area, indicating the status of all wells in the Unit and the offset operators.

Waivers from offset operators are being requested at this time to expedite this request.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By *CHL*

OHC:jb
Encl.





March 18, 1965

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R. C. TUCKER, PRES.

PHONE MU 2-5241
ADDRESS REPLY TO:
BOX 1659
MIDLAND, TEXAS

Chief Water Rights Division
State Engineer's Office
Santa Fe, New Mexico

Re: Great Western Drilling Company's
application to convert wells
14-5, 14-7, and 14-9 to Injection
Wells. North Central Caprock
Queen Unit.

Dear Sir:

The wells 14-5, 14-7, and 14-9 all have been completed in the same pattern, i. e. each has approximately 300' of surface pipe circulated by cement. Each has approximately 3000' of 5 1/2" 14# casing cemented with some 100 sacks. The top of the cement in each case is between 2400 and 2500' from the surface.

Injection in each case is proposed down 2" tubing under a packer to be set between 2900 and 3000'. Test will be made to insure that the injected water is confined to the Queen Sand (3020 - 3035).

A copy of the plat and application to the Commission are enclosed. Please make your recommendation to the Commission.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By *C. H. Crews*
C. H. Crews

ONG:jf
Encl.

ILLEGIBLE





March 24, 1965

R. C. TUCKER, PRES.

PHONE MU 2-5241
ADDRESS REPLY TO:
BOX 1659
MIDLAND, TEXAS

Oil Conservation Commission
P.O. Box 2088
Santa Fe, New Mexico

Attention: Mr. J. E. Kapteina

Gentlemen:

As per your letter of March 22, please find diagrammatic sketches of the proposed injection wells.

Since each well so closely follows the field practice, one sketch is used, and the following data is exact as per well records:

<u>Well Number</u>	<u>Surface Pipe</u>	<u>Oil String</u>
14-5	264-250 sacks	3030' - 100 sacks
14-7	298-300 sacks	3032' - 100 sacks
14-9	264-175 sacks	3049' - 75 sacks

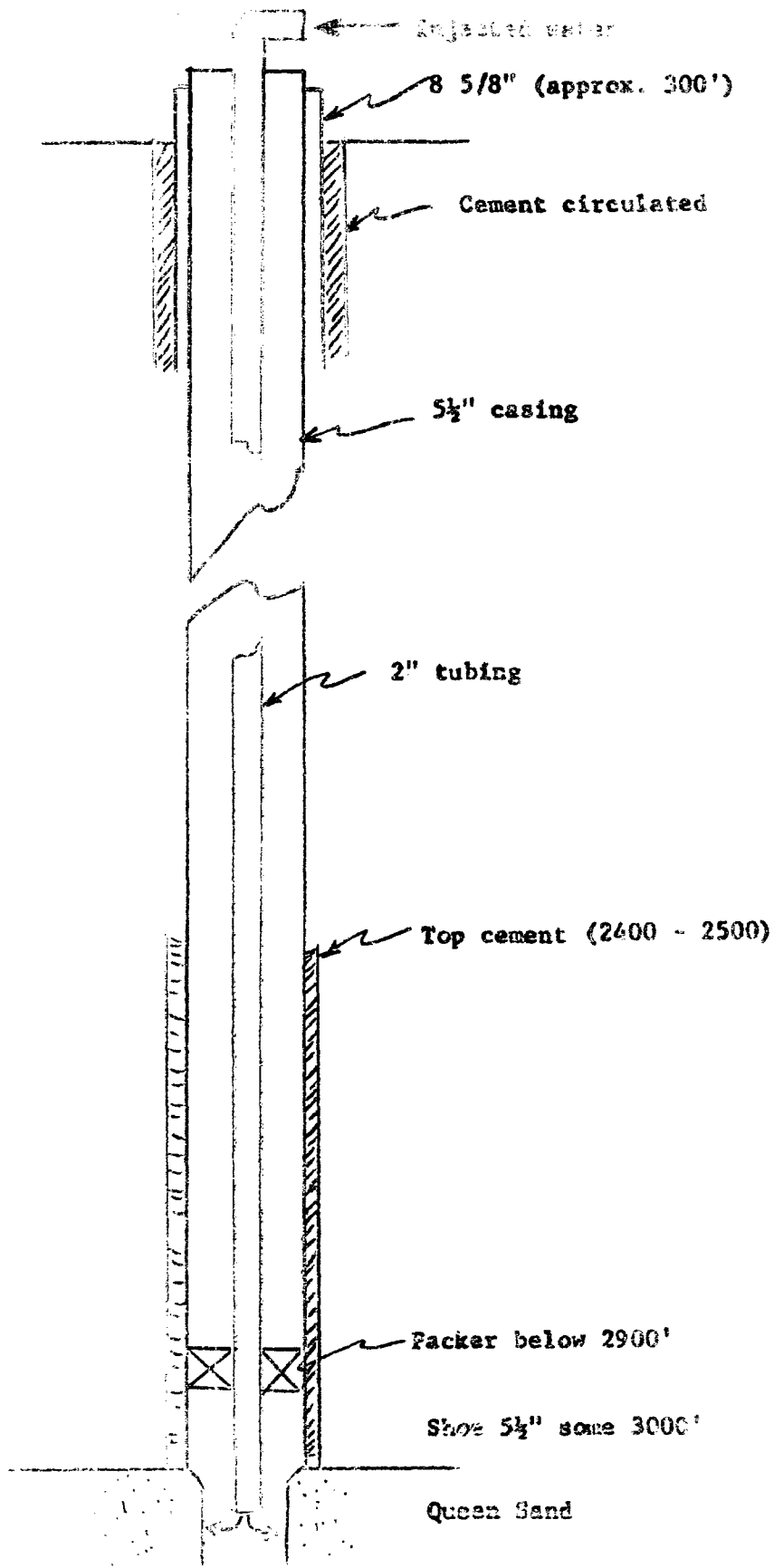
Yours very truly,

GREAT WESTERN DRILLING COMPANY

By O. H. Crews
O. H. Crews

OHC:jb





PROPOSED INJECTION

Wells Numbers 14-5
14-7
14-9

North Central Caprock Queen Unit

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

March 22, 1965

**Great Western Drilling Company
P. O. Box 1659
Midland, Texas**

Attention: Mr. O. H. Crews

Gentlemen:

Please forward diagrammatic sketches of the proposed injection wells listed in your application of March 18, 1965, for the North Central Caprock Queen Unit. Include in sketches all information outlined in Rule 701-B paragraph 3 New Mexico Rules and Regulations.

Very truly yours,

**J. E. KAPTEINA
Engineer**

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Y



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

April 6, 1965

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

APR 7 1965

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

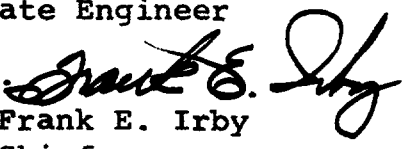
Dear Mr. Porter:

Reference is made to the application of Great Western Drilling Company which seeks to convert their wells 14-5, 14-7 and 14-9 to injection wells in their North Central Caprock Queen Unit, which was submitted on March 18, 1965. A copy of Mr. O. H. Crews' letter to me dated March 18, 1965 is enclosed for your information in which I have underlined the pertinent statements.

This office offers no objection to the granting of this application provided the injection is accomplished in the manner set forth in Mr. Crews' letter.

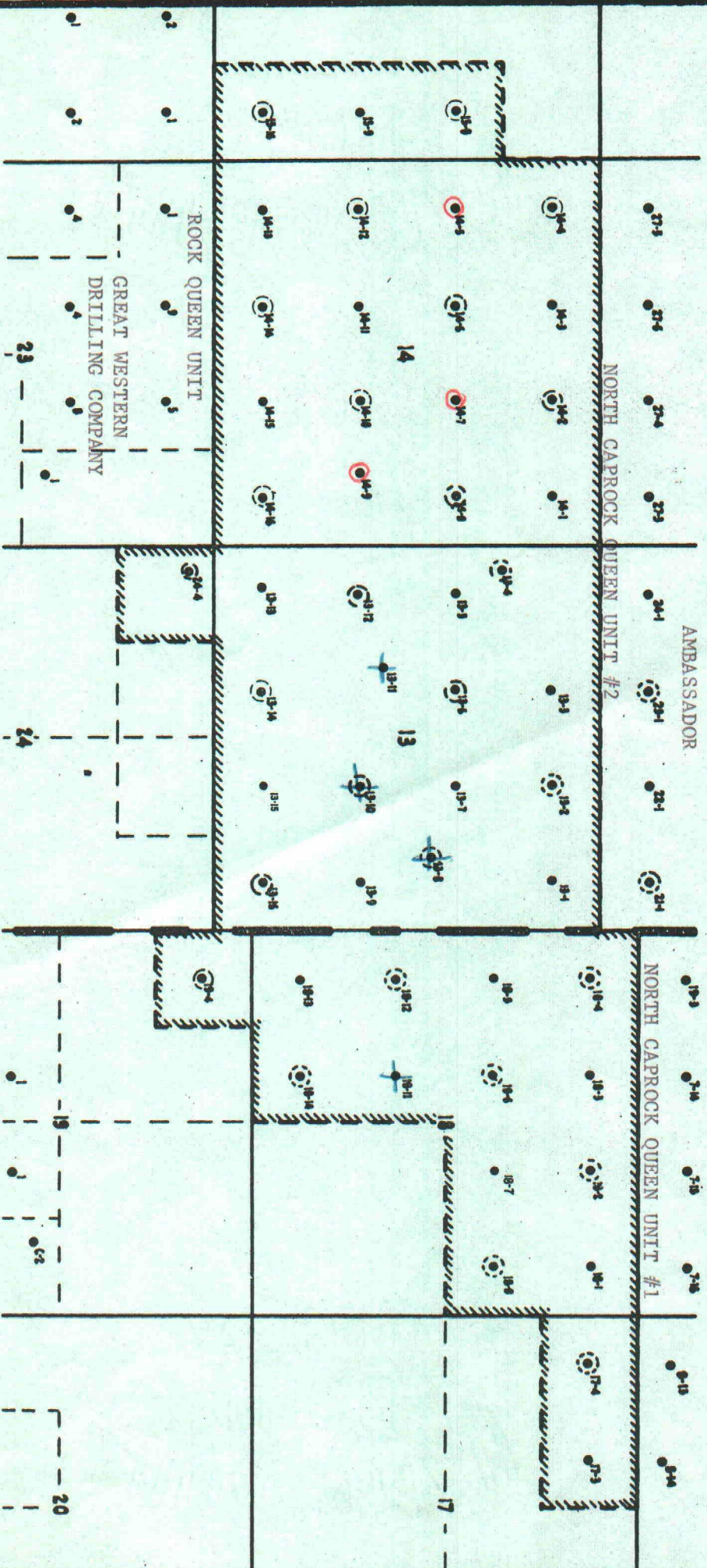
yours truly,

S. E. Reynolds
State Engineer

By: 
Frank E. Irby
Chief
Water Rights Div.

FEI/ma
encl.
cc-Great Western Drilling Co.
F. H. Hennighausen

NORTH CENTRAL CAPROCK QUEEN UNIT **GREAT WESTERN DRILLING COMPANY, OPERATOR**



- Producing Well
- ⊕ Injection Well
- ⊕ Unit Outline
- Proposed Injection
- + Wells to be plugged and abandoned