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1001 NORTH TURNER

TELEPHONE: EX 3-4141

CONTINENTAL OIL COMPANY

P. O. BOX 460 HOBBS, NEW MEXICO

May 5, 1965

PRODUCTION DEPARTMENT HOBES DISTRICT JACK MARSHALL DISTRICT MANAGER G. C. JAMESON ASSISTANT DISTRICT MANAGER

> New Mexico Oil Conservation Commission (3) Post Office Box 2088 Santa Fe, New Mexico

Attention of Mr. A. L. Porter, Jr., Secretary-Director

Gentlemen:

Re: Continental Oil Company Application for Administrative Approval to Convert Eastcap Queen Unit Well No. 1 to Water Injection

Pres 1

Continental Oil Company, operator of the Eastcap Queen Unit Waterflood, respectfully requests administrative approval under Rule 701-E to convert to water injection its Eastcap Queen Unit Well No. 1 - Unit I, Section 22, T-14S, R-31E, in the Caprock-Queen Pool, Chaves County, New Mexico. Original authority to initiate waterflooding in the Eastcap Queen Unit was granted by Order No. R-2550.

It is proposed to inject water into the Queen formation through casing, provided it is successfully tested at 2,000 psi, otherwise through tubing, with packer set at approximately 2,500'. The source of the water will be Ogallala fresh water currently being purchased from Cities Service Oil Company. Anticipated injection rate is from 300 to 400 barrels water per day through perforations opposite the Queen sand from 3,095' to 3,098'. New Mexico Oil Conservation Commission Page 2

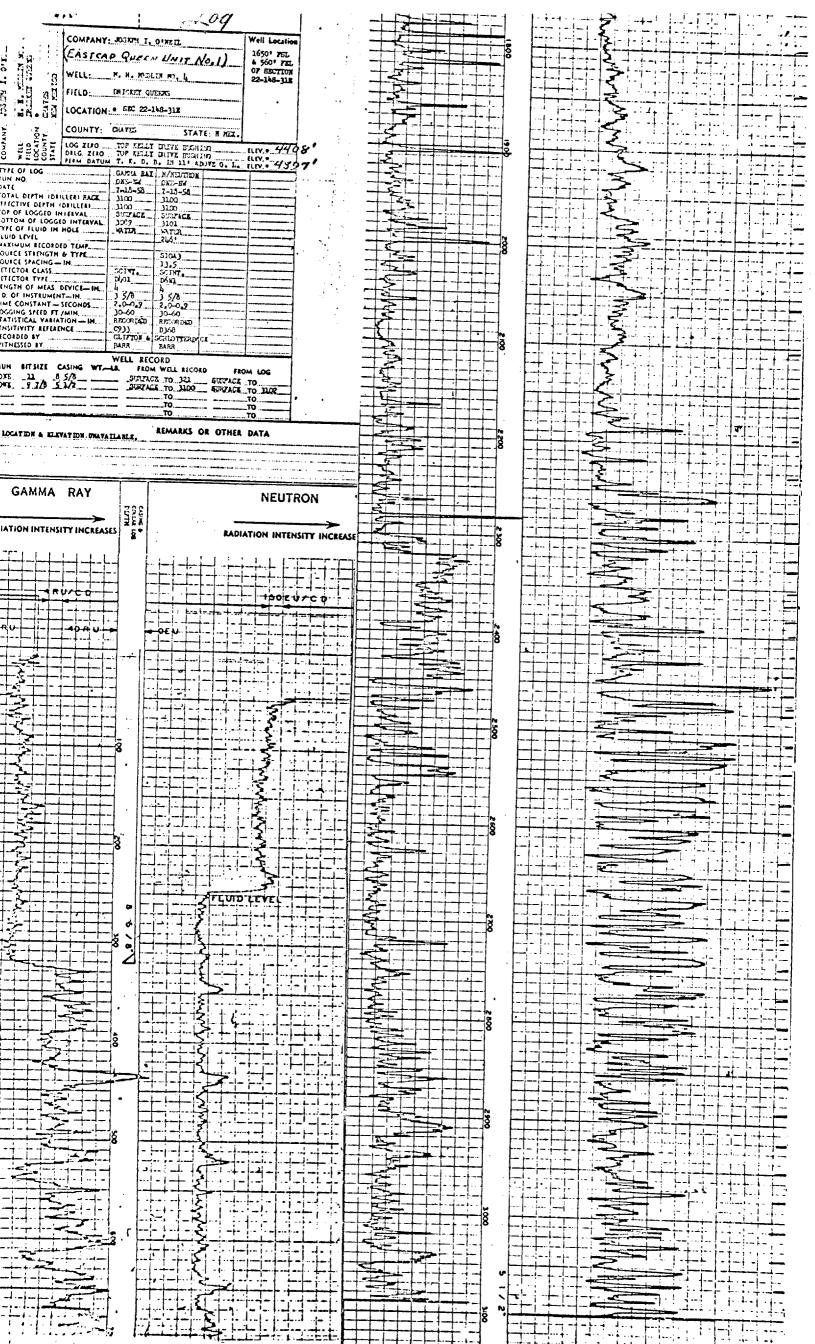
In support of this application, we attach hereto the following exhibits:

- 1. Lease plat indicating lessees of record within two mile radius of the proposed injection well, and location of all wells within such leases.
- 2. Gamma ray-Neutron log run in Eastcap Queen Unit Well No. 1.
- 3. Schematic diagram of the well indicating casing sizes, setting depths, amount and top of cement, and proposed tubing and packer setting depth.
- 4. Copy of C-116 showing response to water injection in Well No. 4, the immediate south offset.

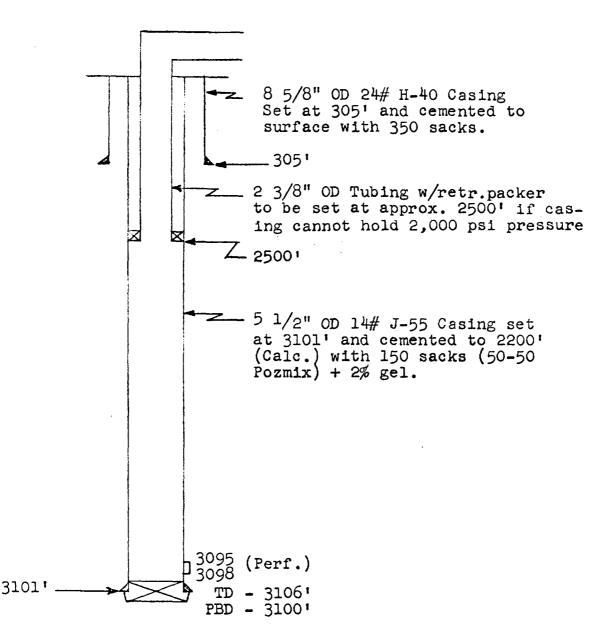
Copies of this application, along with all pertinent attachments are being sent by certified mail to each offset operator and to the New Mexico State Engineer.

Yours very truly,

GCJ-DFW Enc. cc: NMOCC-Hobbs RGP JWK GW (By Certified Mail) Mr. Frank Irby c/o State Engineer P. O. Box 1079 Santa Fe, New Mexico Union Oil Company of California, Operator, South Caprock Queen Unit 619 West Texas Midland, Texas



Elev. - 4397' - Ground



Proposed Work

- 1. Check for fill cleanout to PBD of 3100'.
- 2. Run tubing with packer, test with 2,000 psi pressure, and connect up well for injection as indicated. If casing passes pressure test, injection will be through casing; otherwise, as shown above.

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STATE OF NEW MEXICO

STATE ENGINEER OFFICE SANTA FE

May 26, 1965

S. E. REYNOLDS STATE ENGINEER ADDRESS CORRESPONDENCE TO: STATE CAPITOL SANTA FE, N. M.

Mr. A. L. Porter, Jr. Secretary-Director Oil Conservation Commission Santa Fe, N. M.

Dear Mr. Porter:

Reference is made to the application of Continental Oil Company submitted May 5, 1965 which seeks administrative approval to convert Eastcap Queen Unit Well No. 1 to water injection.

This office offers no objection to the granting of the application provided the casing is successfully tested at 2000 PSI and injection pressures not exceed 1800 PSI, and further provided that if the casing fails to successfuly resist 2000 PSI pressure injection will be through tubing under packer set well below the top of the cement surrounding the $5\frac{1}{2}$ inch casing.

FEI/ma cc-Continental Oil Co. F. H. Hennighausen

Yours truly,

S. E. Reynolds State Engineer

Frank E. Irby

Chief Water Rights Div.

New Mexico Oil Conservation Commission Post Office Box 2088 Santa Fe, New Mexico Attention of Mr. A. L. Porter, Jr., Secretary-Director Gentlemen:

The undersigned has received a copy of the application of Continental Oil Company for permission to convert to water injection its Eastcap Queen Unit Well No. 1, located in Unit I, Section 22, T-14S, R-31E, Chaves County, New Mexico.

As an offset operator, you are hereby notified that we have no objection to the conversion of the well as requested by Continental.

Yours very truly,

1965

LARGE FORMAT EXHIBIT HAS BEEN REMOVED AND IS LOCATED IN THE NEXT FILE