

BEFORE THE OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO

APPLICATION OF UNION TEXAS PETROLEUM)
 DIVISION OF ALLIED CHEMICAL CORPORATION)
 FOR APPROVAL OF A WATERFLOOD PROJECT TO)
 BE CO-EXTENSIVE WITH THE PROPOSED LANGLIE-)
 JAL UNIT AREA EMBRACING 3,748.06 ACRES)
 IN TOWNSHIPS 24 AND 25 SOUTH, RANGE 37)
 EAST, N.M.P.M. LEA COUNTY, NEW MEXICO.)
 APPLICANT SEEKS APPROVAL OF THE PROJECT)
 AREA AND OF 46 INJECTION WELLS, 34 BY)
 THE CONVERSION OF PRESENTLY PRODUCING)
 WELLS AND BY THE DRILLING OF 12 NEW)
 WELLS AND FOR THE INJECTION OF WATER IN)
 THE PRODUCTIVE INTERVAL BETWEEN THE TOP)
 OF THE SEVEN RIVERS FORMATION AND THE)
 BASE OF THE QUEEN FORMATION OCCURRING)
 BETWEEN THE DEPTHS OF 3095 FEET AND)
 3695 FEET IN THE SKELLY OIL COMPANY)
 SHERREL NO. 7 WELL LOCATED 1980 FEET)
 FROM THE SOUTH AND EAST LINES OF SECTION)
 31, TOWNSHIP 24 SOUTH, RANGE 37 EAST:)
 ALSO PROVISION FOR ADMINISTRATIVE APPROVAL)
 OF ADDITIONAL INJECTION WELLS AND A PROJECT)
 ALLOWABLE IN ACCORDANCE WITH RULE 701 OF)
 THE COMMISSION)

Case 4430

Oil Conservation Commission
 Box 2088
 Santa Fe, New Mexico 87501

Comes Union Texas Petroleum Division of Allied Chemical Corporation and hereby makes application for approval of a waterflood project to be co-extensive with the proposed Langlie-Jal Unit Area embracing 3,748.06 acres in Townships 24 and 25 South, Range 37 East, N.M.P.M. Lea County, New Mexico. Applicant seeks approval of a project area and of 46 injection wells, 34 by the conversion of presently producing wells and by the drilling of 12 new wells, and for the injection of water in the productive interval between the top of the Seven Rivers formation and the base of the Queen sand occurring between the depths of 3,095 feet and 3,695 feet in the Skelly Oil Company Sherrel No. 7 well located 1980 feet from the South and East lines of Section 31, Township 24 South, Range 37 East; also provision for administrative approval of additional

injection wells and a project allowable in accordance with Rule 701 of the Commission, and in support thereof respectfully shows:

1. That applicant has filed simultaneously herewith an application to the Commission for approval of the Langlie-Jal Unit Agreement with embraces 2,075.23 acres of federal land, 640 acres of state land and 1,032.83 acres of fee lands, or a total of 3,748.06 acres, in Townships 24 and 25 South, Range 37 East, N.M.P.M. Lea County, New Mexico. That said unit agreement is being entered into primarily for the purpose of conducting a waterflood project co-extensive with the unit area and the unit agreement is to be limited to the interval between the top of the Seven Rivers formation and the base of the Queen sand.

2. There is attached hereto, made a part hereof and marked as Exhibit "A", a plat showing the location of the proposed injection wells and the location of all other wells within a radius of 2 miles from the proposed injection wells and the formation from which said wells are producing or have produced. The plat also indicates the lessees within said 2 mile radius. Applicant proposes to use 46 injection wells, 34 of which are presently producing wells which will be converted to injection wells and 21 new wells will be drilled for such purpose. There is attached hereto as Exhibit "B" Table No. 1 showing the location of all the proposed injection wells and the interval in which fluid will be injected in each well; there is also attached hereto and made a part hereof as Exhibit "C" a diagrammatic sketch of a typical proposed injection well; also attached as Exhibits "D" and "E" are diagrammatic sketches of the Pan American Langlie "A" No. 2 and the Skelly Sherrel No. 3 wells which are to be dual completions.

3. Applicant contemplates obtaining water for injection purposes from the Skelly Oil Company Jal Water System which originates from the Capitan Reef and also using produced water. Applicant contemplates that the initial injection rate will be around 500 barrels of water per well per day and it is estimated that the initial injection pressure will be around 1,000 psi.

4. Applicant requests that upon approval of the waterflood project it also be given the right to request administrative approval of any additional injection wells or changes in injection wells which may be necessary or required in inaugurating and operating the waterflood project.

5. Applicant also requests that a project allowable be assigned in accordance with Rule 701 of the Commission.

6. That applicant believes that said waterflood project is in the interest of conservation and the prevention of waste and will tend to promote the greatest ultimate recovery of oil and gas and will protect correlative rights.

7. Applicant requests that this matter be set down for hearing at the examiner's hearing to be held on September 30, 1970.

Respectfully submitted,

UNION TEXAS PETROLEUM DIVISION
ALLIED CHEMICAL CORPORATION

By 

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DIAGRAMMATIC SKETCH
TYPICAL PROPOSED INJECTION WELL
PROPOSED LANGLEIE-JAL UNIT
Lea County, New Mexico
SINGLE COMPLETION

8 5/8" OD Casing Cement
Circulated.

300'

CASING-TUBING ANNULUS WILL BE
LOADED WITH INHIBITED FLUID.

2 3/8" OD 4.70" EUE 8rd. J-55
Tubing Cement Lined Internally.

Tension Type Packer To Be Set At
Approximately 3250'

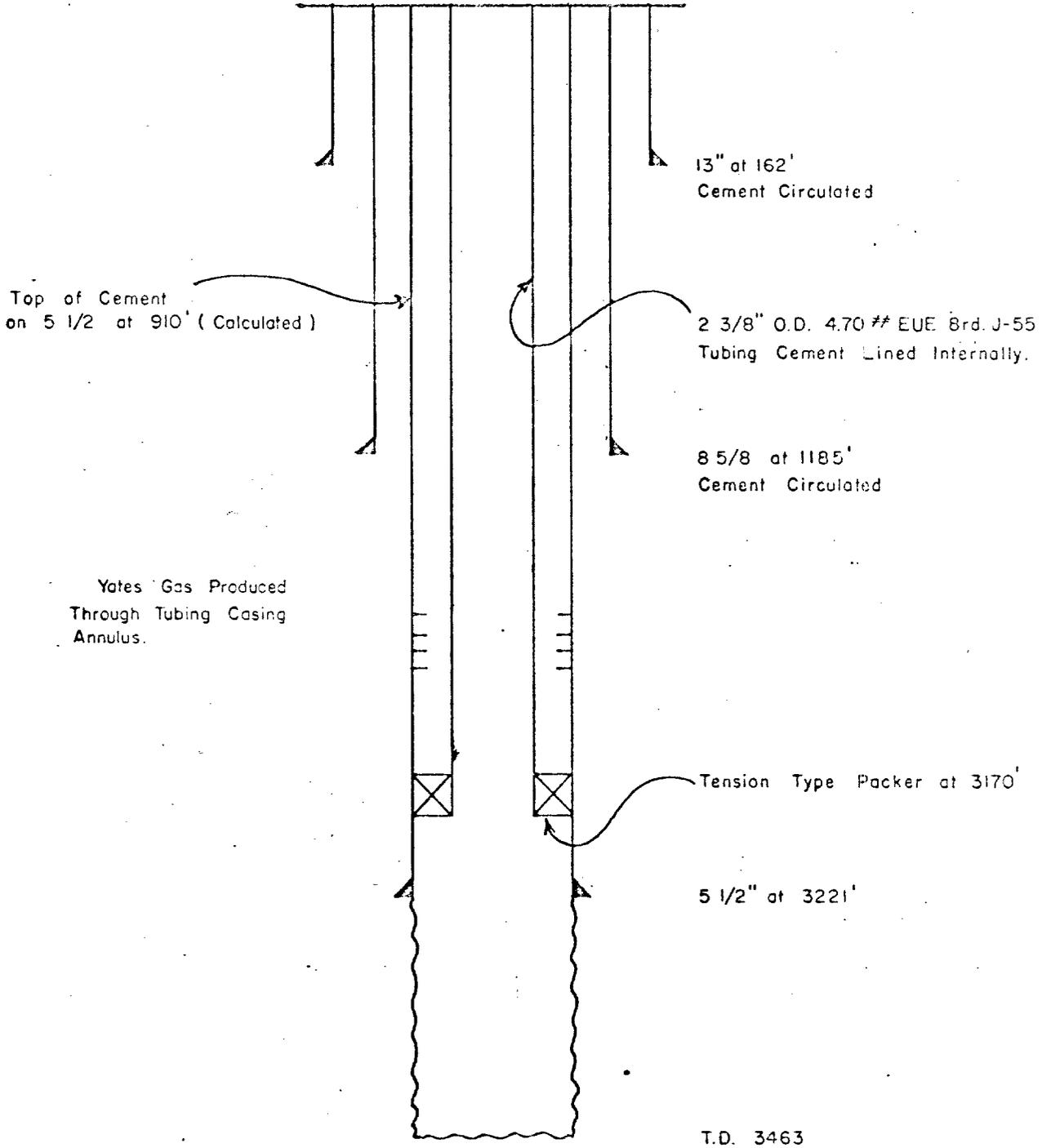
SEVEN RIVERS-QUEEN
Perforated or Open Hole 3300'-3600'

4 1/2" OD Casing Cemented
With 600 sx. Cmt. Top
At Surface

3600'

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DIAGRAMMATIC SKETCH
PROPOSED INJECTION WELL
PROPOSED LANGLIE-JAL UNIT
Lea County, New Mexico
Pan American, Langlie "A" No.2
Dual Completion



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DIAGRAMMATIC SKETCH
PROPOSED INJECTION WELL
PROPOSED LANGLEIE-JAL UNIT
Lea County, New Mexico
Skelly Sherrill, No. 3
Dual Completion

