

Mobil Oil Corporation

NINE GREENWAY PLAZA-SUITE 2700
HOUSTON, TEXAS 77046

February 14, 1979

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attn: Mr. Joe D. Ramey
Director

7.01 MOBIL OIL CORPORATION'S
APPLICATION TO CONVERT TWO
PRODUCING WELLS TO WATER INJECTION,
E. K. QUEEN UNIT WATERFLOOD PROJECT,
E. K. QUEEN UNIT, LEA CO., N.M.

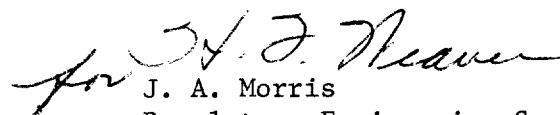
Gentlemen:

Mobil Oil Corporation respectfully requests your administrative approval to convert two producing wells in the captioned water flood project to water injection. Order # R-2914 authorized the waterflood project. We plan to convert the E. K. Queen Unit Well #6-8 and #10-1 to water injection status. These wells produce from the Queen Sand. Injection water of approximately 100 B/D/Well will be unit produced water, reinjected into the Queen Sand at approximately 4300 feet.

This Waterflood project is at its economic limit. Conversion of the two wells will offer an opportunity to improve both the oil recovery and the economics. Mobil's planned procedure, if successful, will result in a future expansion of the project.

We include and attach data in accordance with the requirements of New Mexico Oil Conservation Division's Rule 701 B (1), (2), (3) and (4). If additional data is required to authorize this request please advise.

Yours very truly,



J. A. Morris
Regulatory Engineering Supervisor

HFWeaver:jh
Attachments/

ADDRESS LIST - OFFSET OPERATORS
MOBIL OIL - E. K. QUEEN UNIT
E. K. YATES - SEVEN RIVERS QUEEN UNIT
LEA COUNTY, NEW MEXICO

American Petrofina Company of Texas
P. O. Box 1311
Big Spring, Texas 79710

Amoco Energy Corporation
4825 LBJ Freeway
Suite 110
Dallas, Texas 75234

Aztec Oil & Gas Company
1600 First National Bank Bldg.
Fort Worth, Texas 76102

Cities Service Company
P. O. Box 1919
Midland, Texas 79702

Continental Oil Company
P. O. Box 9159
Midland Savings Building
Midland, Texas 79701

Dalco Petroleum, Inc.,
2431 East 51st
Tulsa, Oklahoma 74105

Depco, Inc.
Western United Bldg.
Suite 402
Midland, Texas 79701

El Paso Natural Gas Company
1800 Wilco Bldg.
Midland, Texas 79701

Gulf Oil Corporation
P. O. Box 1150
Gulf Building
Midland, Texas 79701

Harland Production Company
3507 West 23rd
Snyder, Texas 79549

J. M. Huber Corporation
2000 West Loop - South
Houston, Texas 77027

Marathorn Oil Company
P. O. Box 552
C & K Petroleum Bldg.
Midland, Texas 79701

Pennzoil Company
P. O. Box 1828
Midland, Texas 79701

Petro - Search, Inc.
825 Petroleum Club Bldg.
Denver, Colorado 80202

The Superior Oil Company
P. O. Box 71
Conroe, Texas 77301

Yates Petroleum Corporation
2700 South Post Oak Road
Transco Tower
Suite 2390
Houston, Texas 77056

DIAGRAMMATIC WELLBORE SKETCH

LEASE E-K QUEEN UNIT

POOL E-K.YATES, SEVEN RIVERS QUEEN

WELL 6-8

COMPLETION DATE _____

LOCATION SEC.14, T18S-R33E

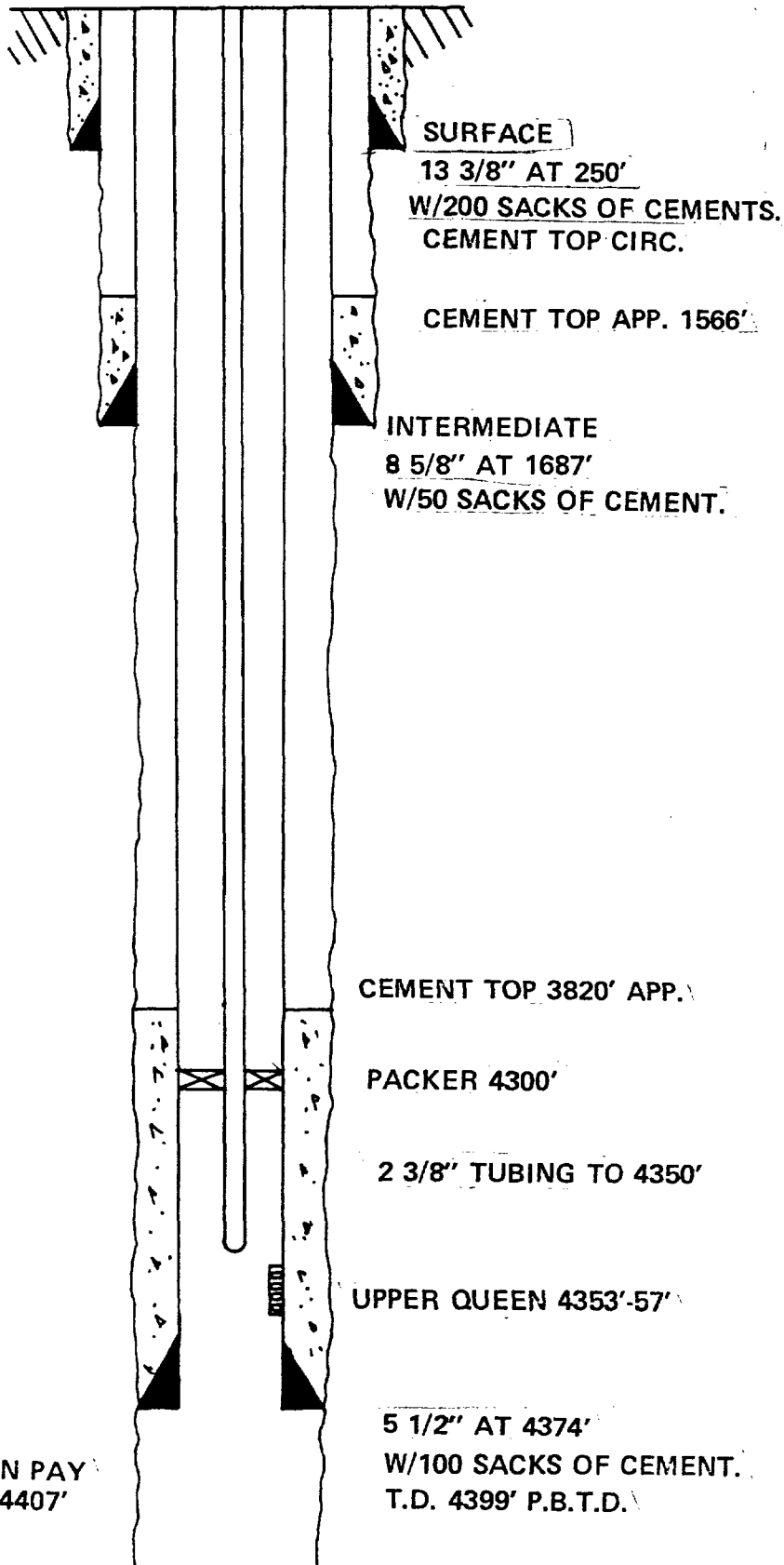
COUNTY & STATE LEA CO., N.M.

ELEVATION 3921 DF

DRAWN BY: JOHN YOUNG

DATE 2-16-79

DATA, 2-16-79



SURFACE

13 3/8" AT 250'

W/200 SACKS OF CEMENTS.
CEMENT TOP CIRC.

CEMENT TOP APP. 1566'

INTERMEDIATE

8 5/8" AT 1687'

W/50 SACKS OF CEMENT.

CEMENT TOP 3820' APP.

PACKER 4300'

2 3/8" TUBING TO 4350'

UPPER QUEEN 4353'-57'

5 1/2" AT 4374'

W/100 SACKS OF CEMENT.
T.D. 4399' P.B.T.D.

QUEEN PAY
4388'-4407'

DIAGRAMMATIC WELLBORE SKETCH

LEASE E-K QUEEN UNIT

POOL E-K, YATES, SEVEN RIVERS QUEEN

WELL 10-1

COMPLETION DATE _____

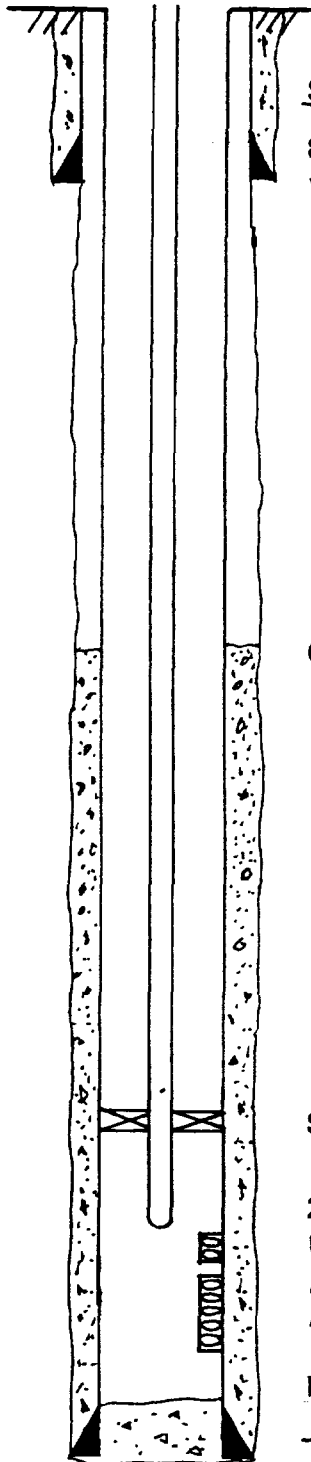
LOCATION SEC. 14, T18S - R33E

COUNTY & STATE LEA CO., N.M.

ELEVATION 3921 DF

DRAWN BY JOHN YOUNG

DATE 2-16-79



SURFACE

8 5/8" CASING SET AT 300'
WITH 200 SACKS CIRC. CEMENT
HOLE SIZE 11"

CALCULATED CEMENT TOP 893'

SET PACKER AT 4215' ±

2 3/8" TUBING TO 4245'
UPPER QUEEN 4265 - 70'
4291' - 4309'
4313' - 4315'

P.B.T.D. 4335'

PRODUCTION

5 1/2" CASING SET AT 4354' WITH 600 SACKS OF POZMIX W/4% GEL CEMENT
TOTAL DEPTH 4355' HOLE SIZE 7 7/8"

R - 33 - E

12

R - 34 - E

T
18
S

T
18
S



LEGEND

- OIL WELL
- ✦ DRY HOLE
- ✦ ABANDONED WELL
- ✦ WATER INJECTION WELL
- ⑦ TRACT NUMBER
- UNIT BOUNDARY
- PROPOSED CONVERSION TO WATER INJECTION WELL

Mobil Oil Corporation

Houston E & P Division

E K QUEEN UNIT

LEA COUNTY, NEW MEXICO

Scale

Dates

1-29-79

Drawn

Checked

Approved

Revised

26

25

SCALE



R-34-E

[illegible]

Mobil Oil Corporation

Houston E&P Division

E K QUEEN UNIT

Lea County, New Mexico

SUBJECT WELL

Scale 1"=4000'

2-13-79



SABINE PRODUCTION COMPANY

901 Wall Towers East 201 Wall Street Midland, Texas 79701 (915) 683-5607

Michael J. (Mike) DeMarco
District Engineer

March 1, 1979

RECEIVED -
MAR 2 1979
OIL CONSERVATION DIVISION
SANTA FE

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Joe D. Ramey
Director

Re: Mobil Oil Corporation's
Application to Convert Two
Producing Wells to Water
Injection - E. K. Queen Unit,
Lea County, New Mexico

Gentlemen:

Sabine Production Company has been advised of Mobil's application for administrative approval to convert two wells to water injection in the E. K. Queen Unit.

Please be advised that Sabine, as an offset leaseholder, has no objections to this request.

Very truly yours,

SABINE PRODUCTION COMPANY

Michael J. De Marco

Michael J. De Marco
District Engineer

MJD:cc

cc: Mr. J. A. Morris - Mobil, Houston