

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.

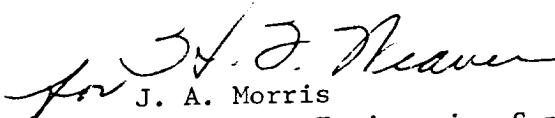
Gentlemen:

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,


for J. A. Morris

Regulatory Engineering Supervisor

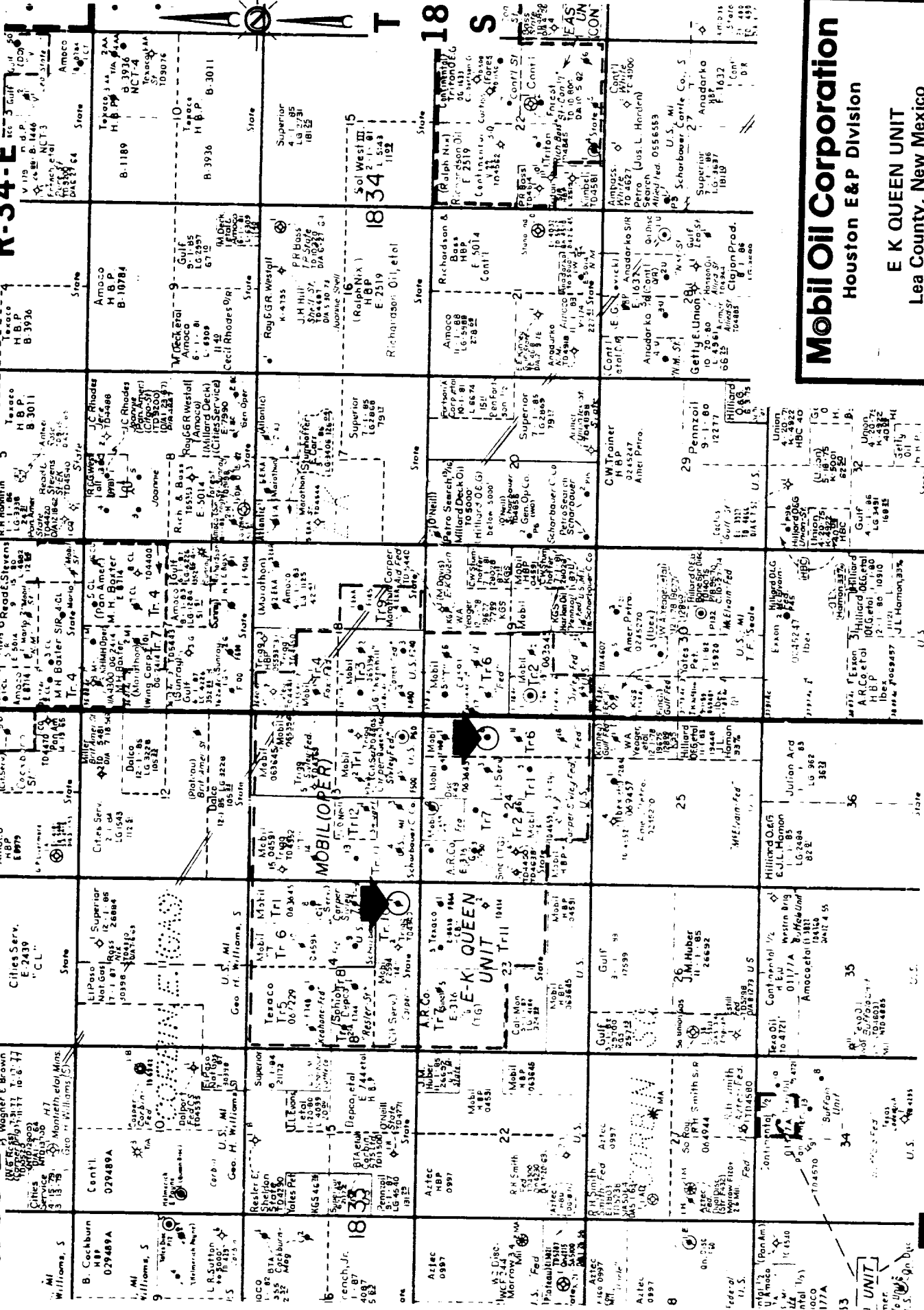
HFWeaver:jh
Attachments/

R-33-E

2 7

R-34-E

18



Mobil Oil Corporation
Houston E & P Division

E K QUEEN UNIT
Lea County, New Mexico

SUBJECT WELL

Scale 1"=4000'

2-13-79

R - 34 - E

R - 33 - E

T 18 S

T 18 S

LEGEND

- OIL WELL
- DRY HOLE
- ABANDONED WELL
- WATER INJECTION WELL
- TRACT NUMBER
- UNIT BOUNDARY
- PROPOSED CONVERSION T WATER INJECTION WELL

Mobil Oil Corporation

Houston E & P Division

E K QUEEN UNIT

LEA COUNTY, NEW MEXICO

Scale
Date
Drawn
Checked
Approved
Revised

1 29 79

SCALE



25

26

DIAGRAMMATIC WELLBORE SKETCH

LEASE E-K QUEEN UNIT

POOL E-K, YATES, SEVEN RIVERS QUEEN

WELL 10-1

COMPLETION DATE _____

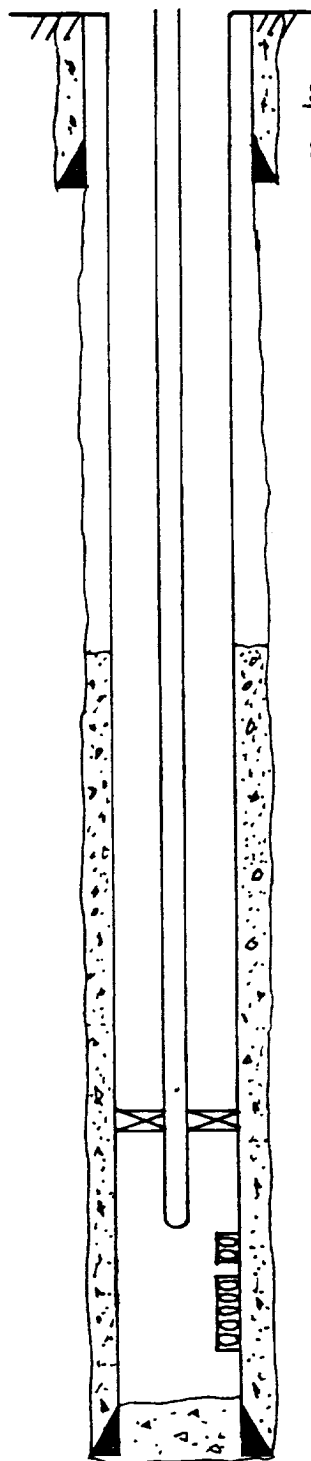
LOCATION SEC. 14, T18S - R33E

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"

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

