



L. P. Thompson
Division Manager
Production Department
Hobbs Division

Western Hemisphere Petroleum Division
Continental Oil Company
P.O. Box 460
1001 North Turner
Hobbs, New Mexico 88240
(505) 393-4141

February 26, 1973

New Mexico Oil Conservation Commission ✓
P. O. Box 2088
Santa Fe, New Mexico 87501

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

Gentlemen:

Application for Authority to Convert Three Wells for Water Injection in
the South Eunice Unit, Lea County, New Mexico

Order No. R-4068 authorized the institution of a waterflood project in the South Eunice Unit area of the South Eunice Pool. Since that order was written, it has been determined by the working interest owners of the South Eunice Unit that the injection pattern should be modified in Section 22. Consequently, it is proposed to convert for water injection South Eunice Unit Wells Nos. 5, 6, and 7, located in Units D, B, and H, respectively, in place of Wells Nos. 8, (formerly Sun Oil Company H.S. Record No. 4), 10 (formerly Sun Record No. 6), and 22 (formerly Continental Oil Company Meyer B-22 Well No. 8), located in Units G, E, and K, respectively, all in Section 22, Township 22 South, Range 36 East, Lea County, New Mexico.

The substitution of wells as described above will result in a peripheral pattern in Section 22 rather than the 80-acre five-spot pattern which was proposed at the hearing in Case No. 4459. Attached hereto, is a plat showing the wells proposed herein to be converted for water injection, the South Eunice Unit area and the immediately surrounding properties. We also attach logs on Wells Nos. 6 and 7 (no log was run on Well No. 5) and schematic diagrams for the three wells to be converted. The wells will be equipped as shown on the schematic diagram and the annular space between tubing and casing above the packer will be filled with an inert fluid and equipped at the surface so that entry of fluid into this space will be readily detectable.

Offset properties are owned by Sun Oil Company and Marathon Oil Company, to each of whom a copy of this application is being furnished. It is respectfully requested that authority be given to convert the wells described above for injection upon receipt of waivers from offset operators or upon the expiration of the waiting period, whichever occurs first.

Yours very truly,

rw
Enc

New Mexico Oil Conservation Commission
Page 2
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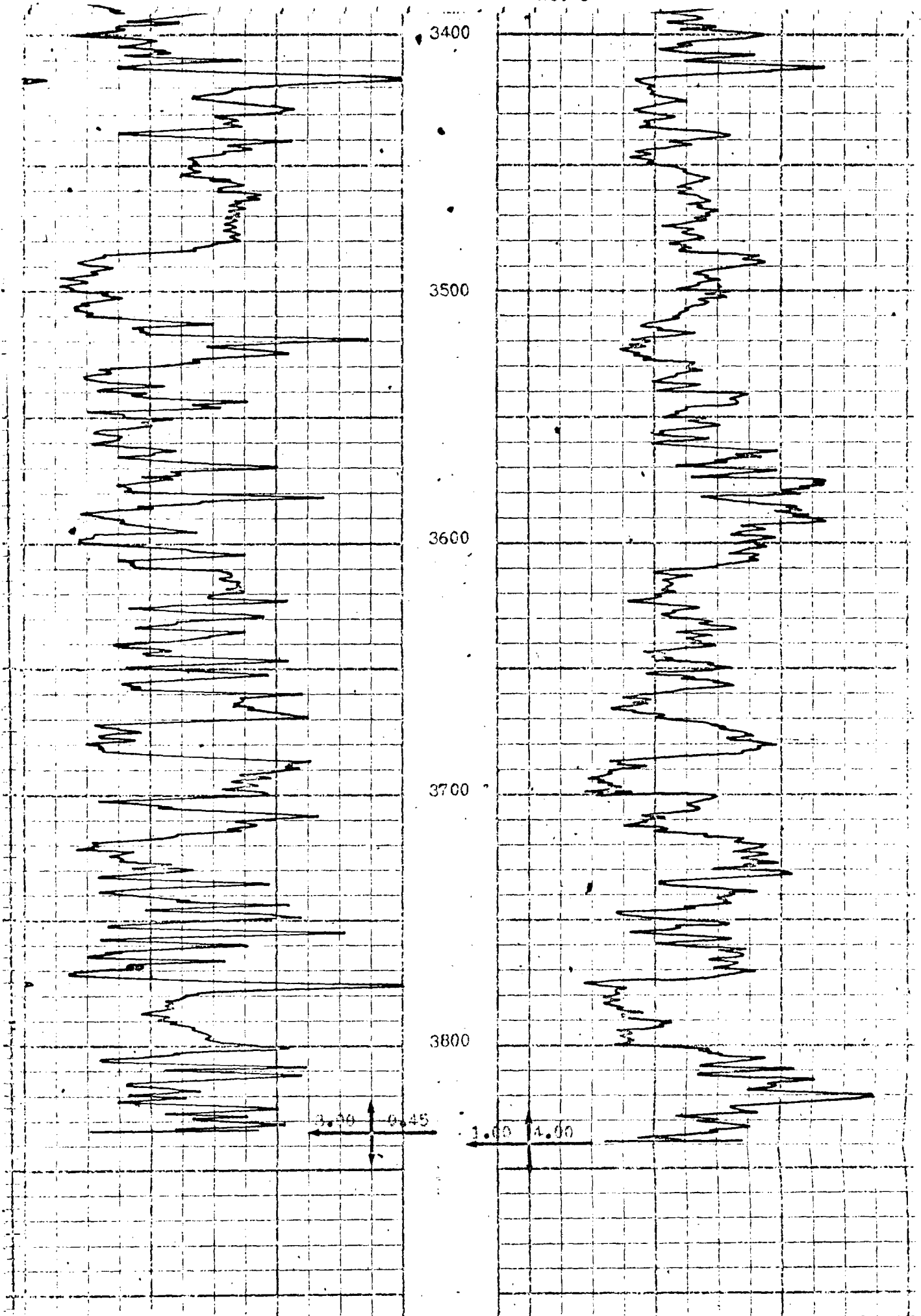
✓ Marathon Oil Company
P. O. Box 220
Hobbs, New Mexico 88240

✓ Sun Oil Company
P. O. Box 1861
Midland, Texas 79701

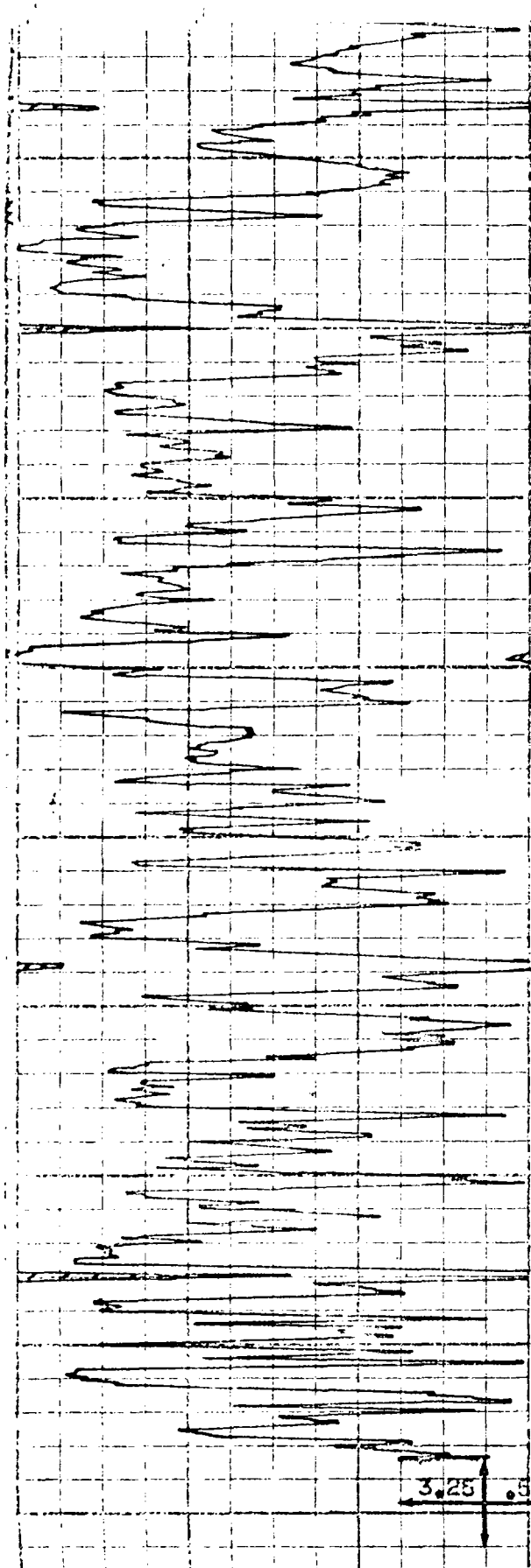
United States Geological Survey
P. O. Box 1157
Hobbs, New Mexico 88240

RLA: GAD: JWK:

SOUTH EUNICE UNIT WELL NO. 6



SOUTH EUNICE UNIT WELL NO. 7



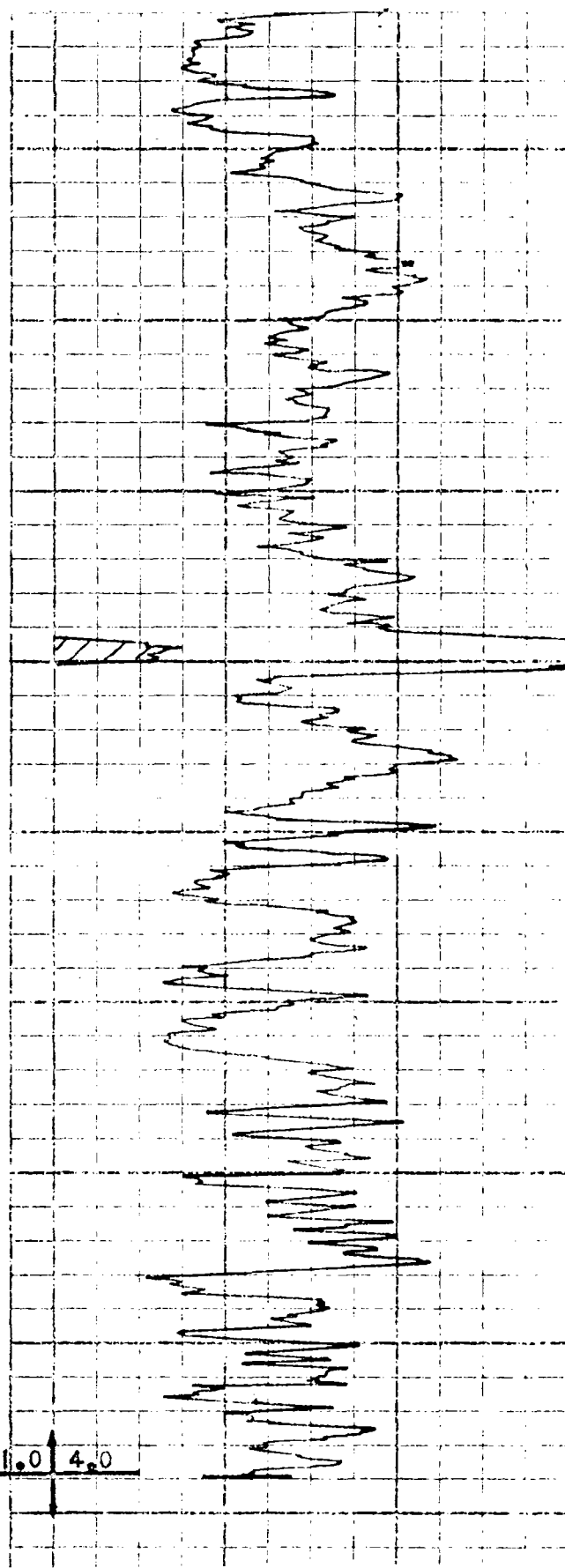
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3600

3700

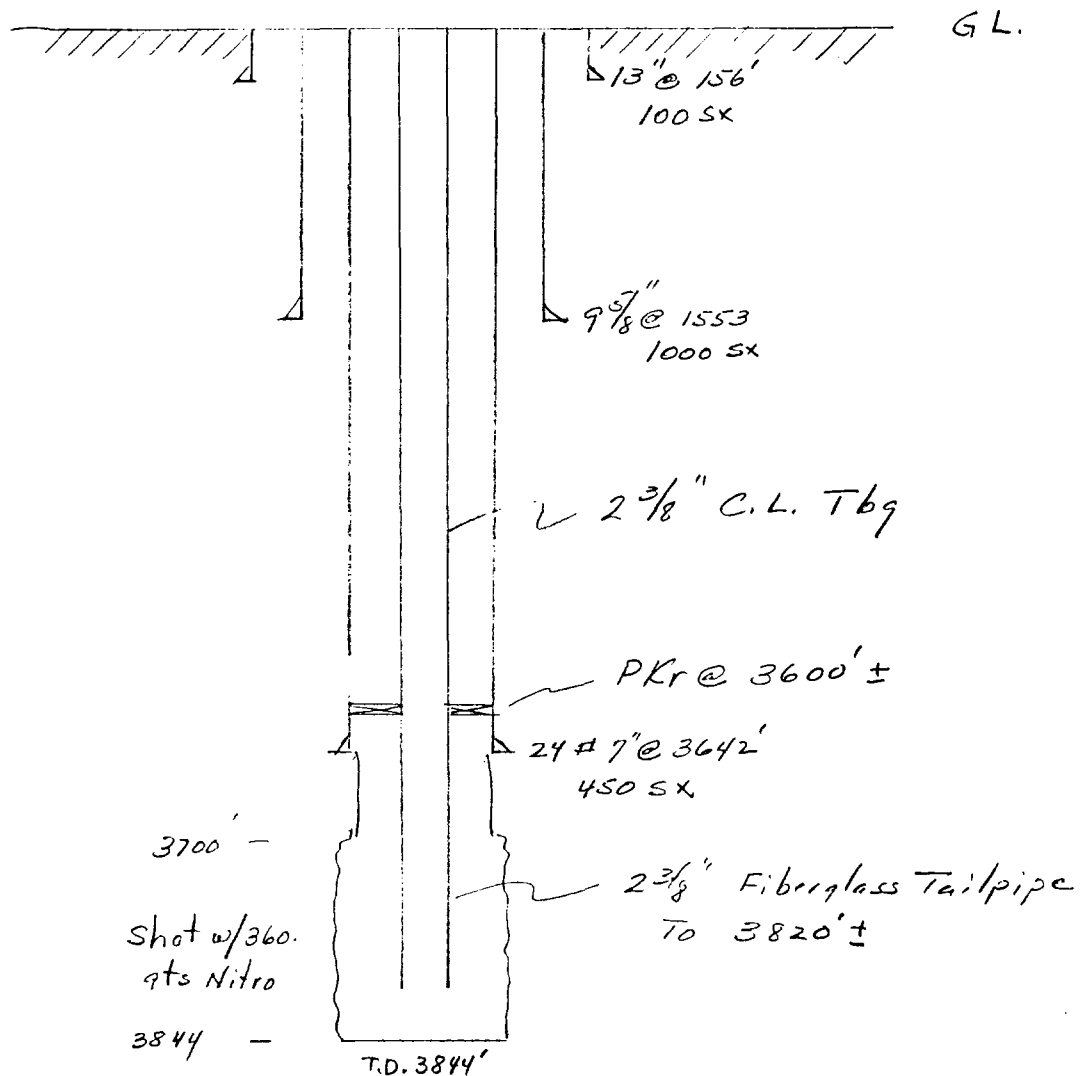
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3.25 .55



1.0 4.0

South Eunice Unit No 5
 660' f N & W Lines 22-22-36
 Elev: 3539 DF 6' AGL



Proposed Conversion

1. Clean out to 3844' TD.
2. Run logs
3. Run 2 3/8" C.L. Tubing & Packer with 220' Fiberglass Tailpipe
4. Spot Packer Fluid - set Packer and commence Injection.

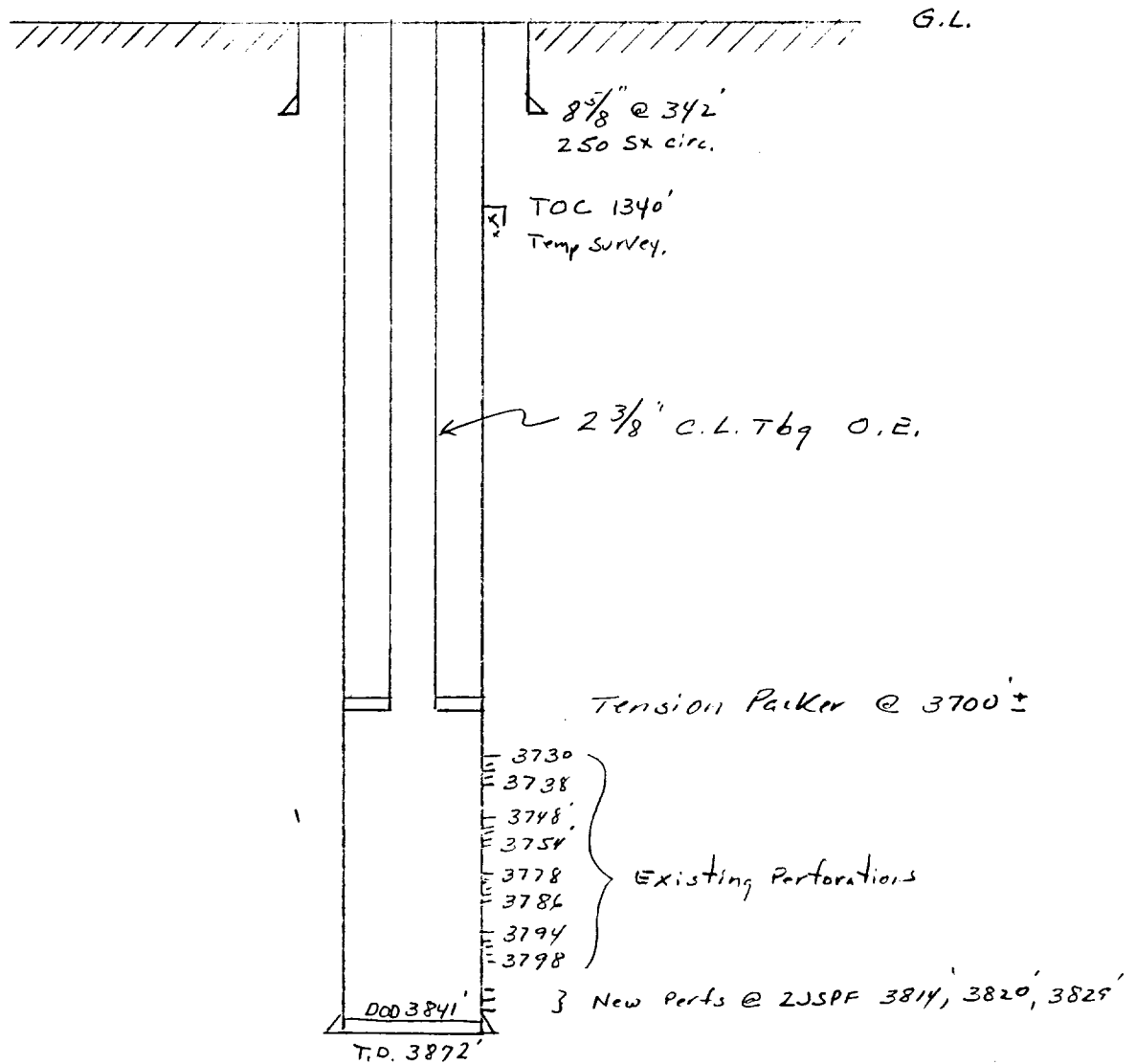
R.L.F.

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South Eunice Unit No 6

660' N & 1980' E 22-22-36

Elev: 3544' OF 9' AGL



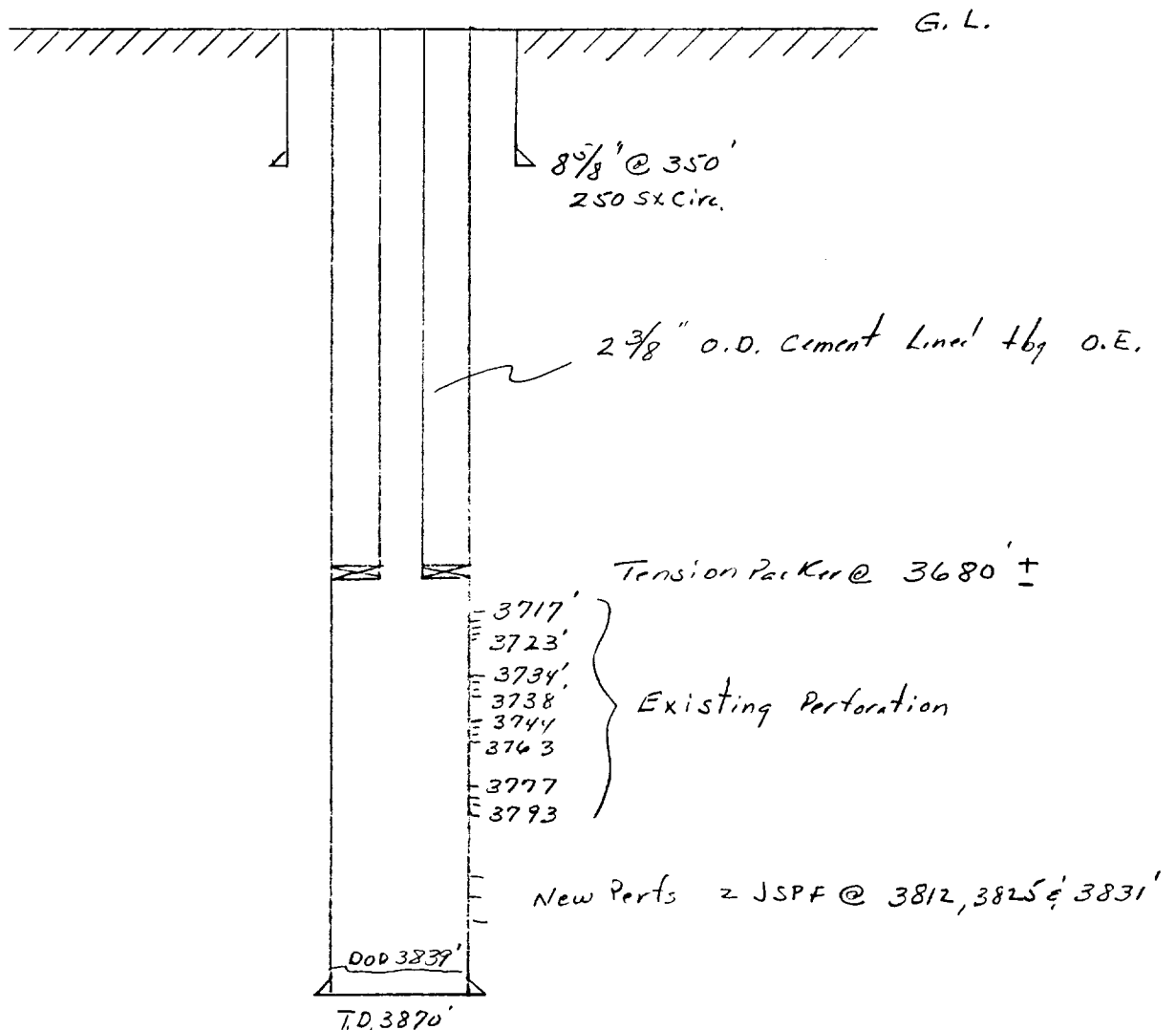
Proposed Conversion

1. clean out to 3841' DOD
2. Perforate @ 3814', 3820' and 3829' & Breakdown w/ Acid.
3. Run 2 3/8" O.D. Cement Lined tubing w/ Packer.
4. spot packer fluid. Set Packer and commence Injection.

R.L.F

2/20/73

South Eunice Unit No 7
 1980' ± N & 990' ± E 22-22-36
 Elev: 3538' 10' AGL

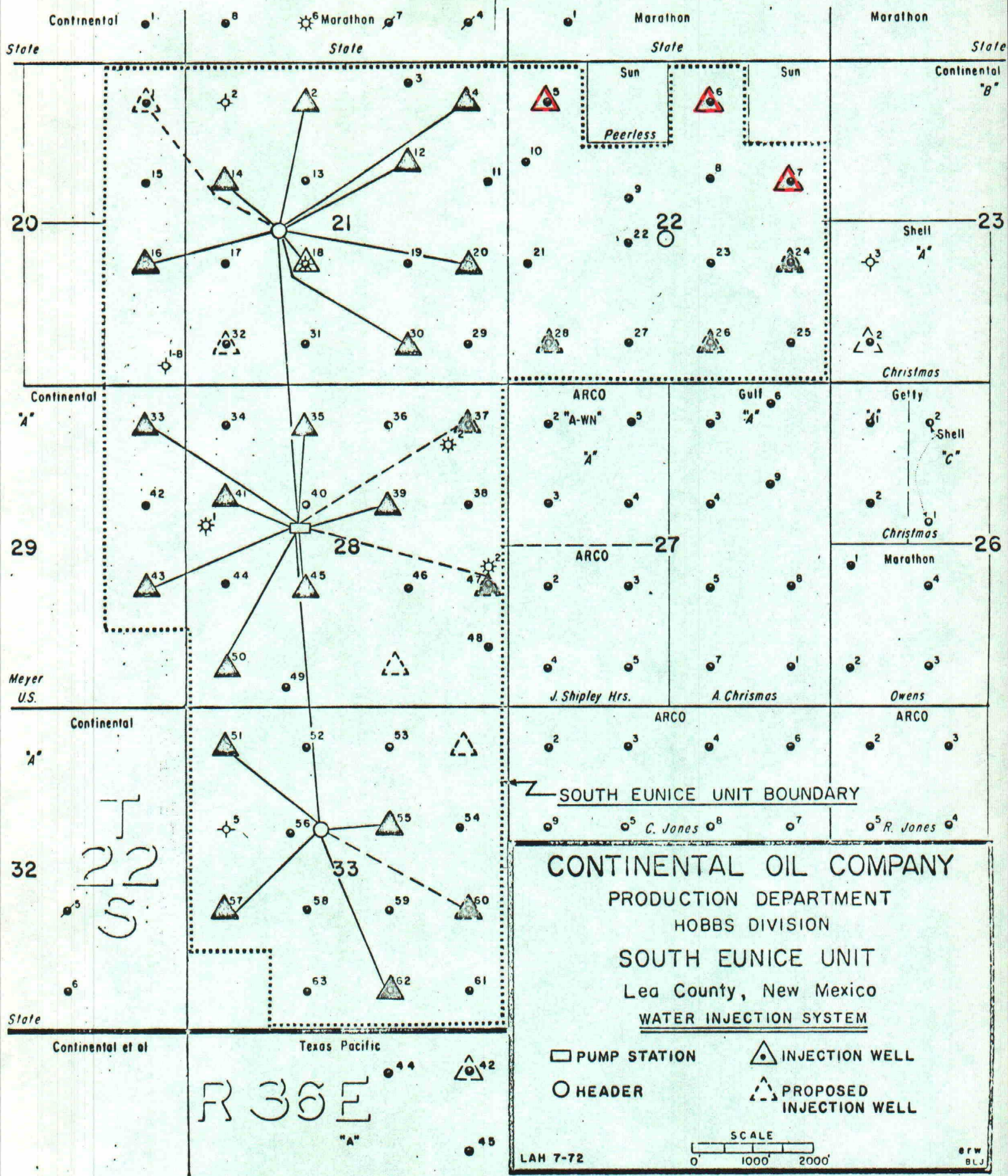


Proposed Conversion

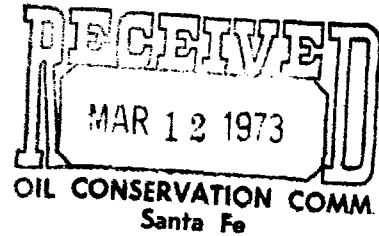
1. Clean out to 3839' DOD
2. Perforate w/ 2 JSPF @ 3812, 3825 and 3831' & Breakdown w/Acid
3. Run 2 3/8" Cement lined tubing w/PKR
4. Spot Packer Fluid. Set Packer & Commence Injection.

R.L.F

2/20/73



- ▲ WELLS PLACED ON INJECTION 12-4-72
INITIAL RATE 7900 BWPD INTO 16 WELLS, WHP 0-200 PSI
- △ LEASE LINE WELLS
- ▲ PROPOSED REVISED PATTERN WELLS



February 26, 1973

New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention Mr. A. L. Porter
Secretary Director

Gentlemen:

Application for Authority to Substitute Injection Wells, South Eunice
Unit, Lea County, New Mexico

We have received a copy of Continental Oil Company's application for authority to convert South Eunice Unit Wells Nos. 5, 6, and 7 to water injection. The undersigned is an offset operator to the unit and to the proposed injection wells and hereby states that it has no objection to the application.

Yours very truly,

COMPANY Sun Oil Co
BY [Signature]
DATE 8/2/73

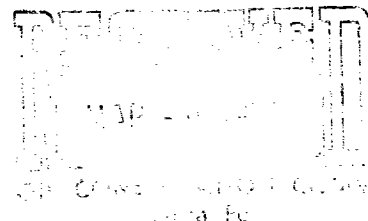
rw



L. P. Thompson
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Continental Oil Company
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February 26, 1973



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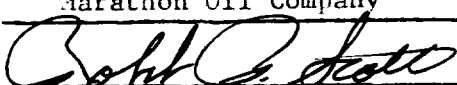
Attention Mr. A. L. Porter
Secretary Director

Gentlemen:

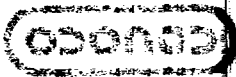
Application for Authority to Substitute Injection Wells, South Eunice
Unit, Lea County, New Mexico

We have received a copy of Continental Oil Company's application for authority to convert South Eunice Unit Wells Nos. 5, 6, and 7 to water injection. The undersigned is an offset operator to the unit and to the proposed injection wells and hereby states that it has no objection to the application.

Yours very truly,

COMPANY Marathon Oil Company
BY 
District Petr. Engr.
DATE March 6, 1973

rw



Western Hemisphere Petroleum Division
 Continental Oil Company
 P. O. Box 100
 1001 North Texas
 Dallas, New Mexico 88240
 (505) 263-4141

J. P. Thompson
 Division Manager
 Production Department
 Records Division

February 26, 1973

New Mexico Oil Conservation Commission
 P. O. Box 2088
 Santa Fe, New Mexico 87501

Attention Mr. A. L. Porter
 Secretary Director

Gentlemen:

Application for Authority to Substitute Injection Wells, South Eunice
 Unit, Lea County, New Mexico

We have received a copy of Continental Oil Company's application for authority to convert South Eunice Unit Wells Nos. 2, 6, and 7 to water injection. The undersigned is an offset operator to the unit and to the proposed injection wells and hereby states that it has no objection to the application.

Yours very truly,

COMPANY
 BY
 DATE

LW