



L. P. Thompson
Division Manager
Production Department
Hobbs Division

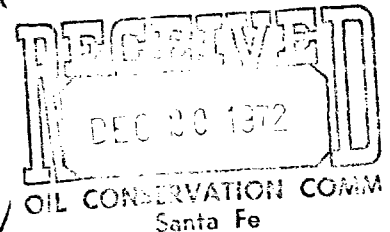
Western Hemisphere Petroleum Division
Continental Oil Company
P.O. Box 460
1001 North Turner
Hobbs, New Mexico 88240
(505) 393-4141

Forest & Levers Waterflood Project

WFX-384

December 18, 1972

New Mexico Oil Conservation Commission - 3 ✓
P. O. Box 2088
Santa Fe, New Mexico 87501



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

Am 20 4

Gentlemen:

Wells # 7 & 13

24-1-13-29E

Revision of Injection Pattern - ~~Forest Pool Unit~~ Waterflood Project

Orders Nos. R-3756 and R-3756A authorized the injection of water into what is now designated the Square Lake Pool within the boundaries of Continental Oil Company's Forest Pool Unit. Under the authority of the above-mentioned orders, eight wells were placed on injection. Administrative Order No. WFX-329 authorized an additional well within the expanded unit. Exhibit No. 1, attached hereto, shows the wells which have been placed on injection under the above-mentioned orders.

When water injection began, it was assumed that the pay intervals within the unit were consistent. Subsequent information developed during operation of the waterflood project has revealed that there are actually two separate zones within the unit area, each covering only a portion of the unit area. Consequently, it is proposed to utilize Wells Nos. 10, 12, 19, 20, and 23 as injection wells in the Premier Sand of the unitized interval. The area to the northwest of these wells is found to be productive from the Lovington Sand. Our injection pattern in this area is proposed to be modified to increase the waterflood efficiency. Well No. 8 has mechanical problems which we have been unable to eliminate; consequently, we propose to convert Well No. 7 for water injection. Well No. 13 has a much better developed sand section than does Well No. 14; consequently, it is proposed to substitute No. 13 for No. 14 as a water injector. Well No. 8 will be shut-in or plugged. Well No. 14 will be shut-in and observed for possible future use. Exhibit No. 2 shows the revised injection pattern. The green triangles indicate the wells which are being abandoned as injectors and the red triangles indicate the wells which are proposed to be substituted.

Exhibits 3 and 4 are schematic diagrams of Wells Nos. 7 and 13, respectively, showing the manner in which they will be completed for water injection. There are no logs available for these two wells. The injection interval, however, is the Lovington Sand.

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It is respectfully requested that an order be entered authorizing water injection into Forest Pool Unit Well No. 7, located 1650' FNL and 990' FEL; and Well No. 13, located 2130' FSL and 660' FEL, both in Section 34, Township 16 South, Range 29 East, Eddy County, New Mexico. Since both locations are well within the interior of the unit area, immediate approval is respectfully requested.

Yours very truly,

A handwritten signature in cursive script, appearing to read "J. Thompson".

rw

Enc

Copies + enc:

United States Geological Survey

Drawer U

Artesia, New Mexico 88201

New Mexico Oil Conservation Commission

Drawer DD

Artesia, New Mexico 88201

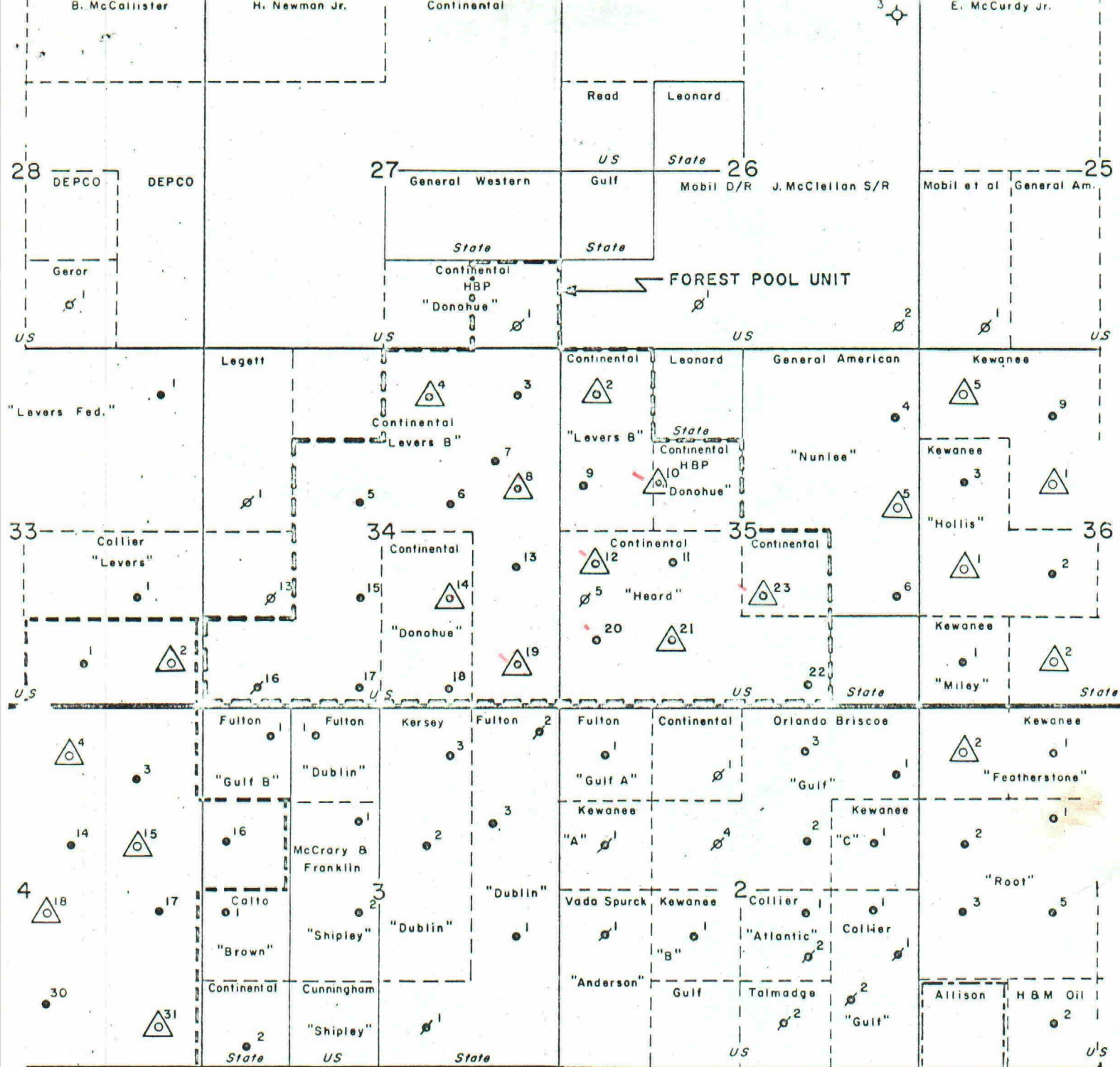
CRA International Ltd

Partner Operations

5416 South Yale

Tulsa, Oklahoma 74135

RLA: GAD: JWK:



CONTINENTAL OIL COMPANY

PRODUCTION DEPARTMENT—HOBBS DIVISION

FOREST POOL UNIT

EDDY COUNTY, NEW MEXICO

SCALE

RFL

EXHIBIT 1



CONTINENTAL OIL COMPANY

PRODUCTION DEPARTMENT—HOBBS DIVISION

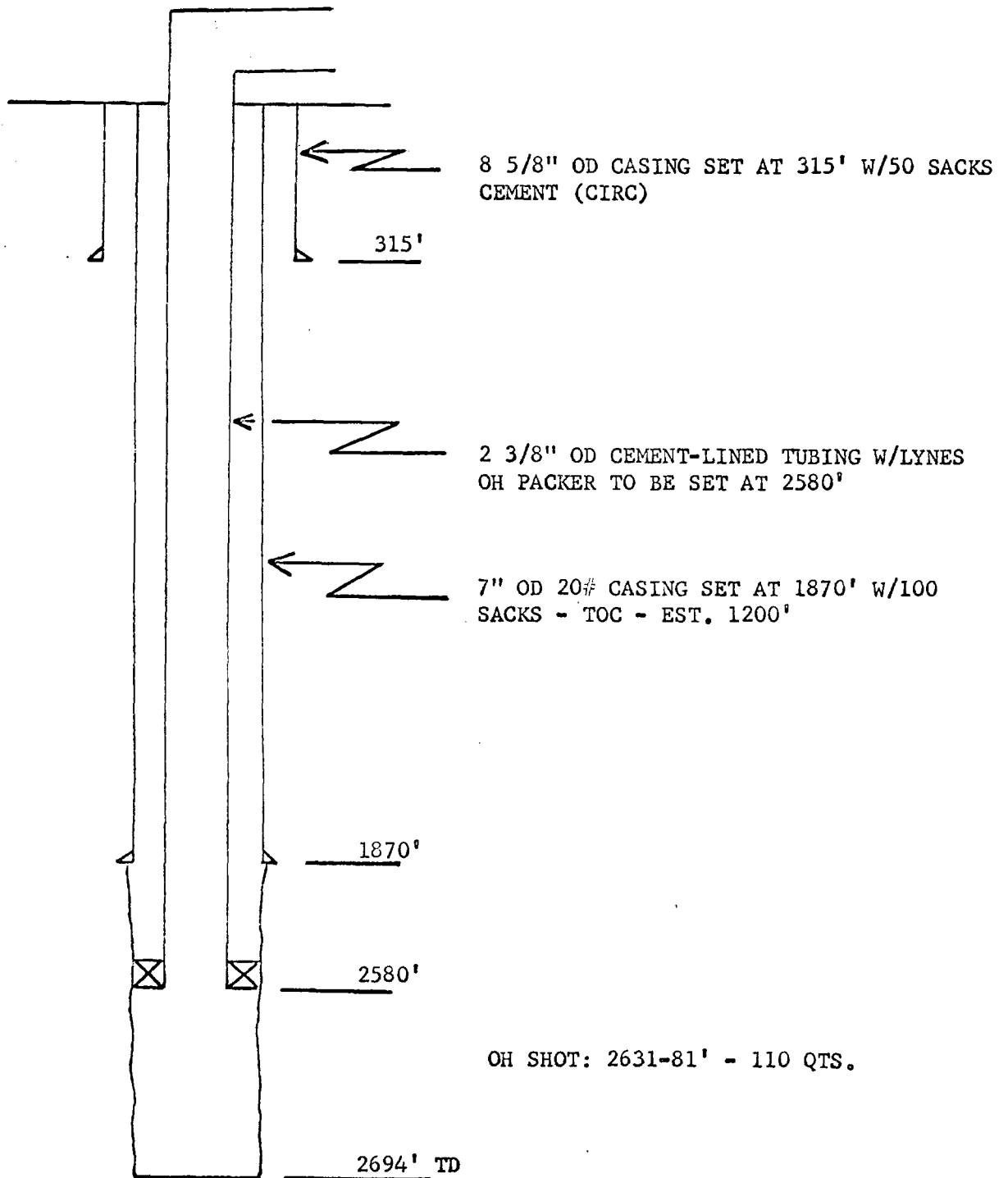
FOREST POOL UNIT

EDDY COUNTY, NEW MEXICO

SCALE

RFL

FOREST POOL UNIT NO. 7
Unit H - 1650' FNL & 990' FEL - Sec. 34
T16S - R29E, Eddy County, New Mexico
Elev: 3653' GL
3661' DF



FOREST POOL UNIT NO. 13
Unit I - 2130' FSL & 660' FEL - SEC. 34 - T16S
R29E, Eddy County, New Mexico - Elev: 3649' GL
3657' DF

