

CONTINENTAL OIL COMPANY

P. O. Box 460  
Hobbs, New Mexico  
February 4, 1969

✓ New Mexico Oil Conservation Commission (3)  
P. O. Box 2088  
Santa Fe, New Mexico

*MCA - 306 -  
New Mexico*

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

Re: REQUEST FOR ADMINISTRATIVE APPROVAL  
TO EXPAND THE MCA UNIT SECONDARY  
RECOVERY PROJECT BY ADDING TWO WATER  
INJECTION WELLS IN SECTIONS 15 AND  
16, T17S, R32E, LEA COUNTY, NEW MEXICO

Gentlemen:

Order No. R-2403 dated December 31, 1962 approved the Continental Oil Company-operated MCA Unit secondary recovery project and established procedures for obtaining administrative approval for expansion. A series of administrative orders have resulted in the expansion of the waterflood to incorporate nearly all of the unit area.

In order to expedite the waterflood expansion, Continental Oil Company has acquired two additional tracts within the unit area. One of these is the E. C. Donohue Gulf State Lease described as N/2 SW/4 Section 16. The other is forty acres out of the Hudson & Hudson Federal lease, NW/4 SW/4, Section 15. Continuation of the 80-acre five-spot pattern would involve conversion of the Donohue Gulf State Well No. 3 in Unit L of Section 16 and the Hudson Federal No. 1 in Unit L of Section 15 for water injection. It is therefore respectfully requested that administrative approval be given under the provisions of Order R-2403 to further expand the MCA Unit secondary recovery project by conversion to water injection the

following wells now operated by Continental Oil Company:

<u>Well Designation</u>	<u>Location</u>
Gulf-State "E" No. 3	Unit L Section 16
Hudson-Federal No. 1	Unit L Section 15

Attached hereto, in support of this request, are the following exhibits:

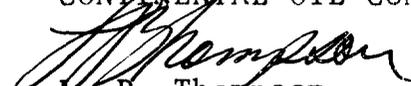
1. A plat showing the location of the proposed injection wells and all of the wells within a radius of two miles from the injection wells, the formations from which said wells are produced or have produced, and lease ownership within the said two mile radius.
2. A diagrammatic sketch of each proposed injection well including casing setting depths, cement tops, producing intervals, and proposed tubing and packer setting depths.
3. A table summarizing the water injection well data shown on the diagrammatic sketches.

It is anticipated that approximately 300 BPD will be injected into each of the two additional wells. This water will be obtained from the MCA Unit water leases now furnishing water for the present secondary recovery project.

A copy of this application with attached data is being forwarded by certified mail to the offset operators.

Respectfully submitted,

CONTINENTAL OIL COMPANY

  
L. P. Thompson  
Division Manager

Application  
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Copies via Certified Mail:

Hudson & Hudson  
1510 First National Bank Building  
Fort Worth, Texas

Standard Oil Company of Texas  
P. O. Box 1660  
Midland, Texas

Texaco, Inc.  
P. O. Box 728  
Hobbs, New Mexico

Copies via regular mail:

NMOCC-Hobbs

USGS-Hobbs

USGS-Roswell

RLA JJB JWK

w/Attachments

Working Interest owners  
(letter only)

M C A UNIT  
WORKING INTEREST OWNERS

Mr. J. C. McClure  
Cities Service Oil Company  
P. O. Box 4906  
Midland, Texas 79701

Mr. R. F. Sawyer  
Sinclair Oil and Gas Company  
P. O. Box 1470  
Midland, Texas 79702

Mr. H. F. Deffenbaugh  
Sinclair Oil and Gas Company  
P. O. Box 521  
Tulsa, Oklahoma 74102

Mr. W. F. Burns  
Sinclair Oil and Gas Company  
P. O. Box 1920  
Hobbs, New Mexico 88240

Virginia Sears & Mary Jo  
Vandiver, Coexecutrices  
700 Hermosa Drive  
Artesia, New Mexico 88210

Mr. Jack B. Shaw  
for Emily Katherine Flint Boyd  
Rosemary Flint  
Virginia Woods Shaw  
P. O. Box 517  
Artesia, New Mexico 88210

Fair Oil Company  
for Fair N & N Trust  
Richard L. Ray, Trustee  
P. O. Box 689  
Tyler, Texas 75701

Mr. J. P. Pierce  
3621 Westcliff Road South  
Fort Worth, Texas 76109

Cockburn Trusts  
P. O. Box 241  
Dallas, Texas 75200

Mr. Addie P. Smith  
2506 Bridwell Street  
Wichita Falls, Texas 76301

Mrs. Jewel Smith  
3109 Rufe Snow Drive  
Apt. C  
Fort Worth, Texas 76118

Mrs. Mary Katherine Fowles  
2415 Larkin  
San Francisco, California 94109

Sally Seeber  
6921 E. Hawthorne  
Tucson, Arizona 85700

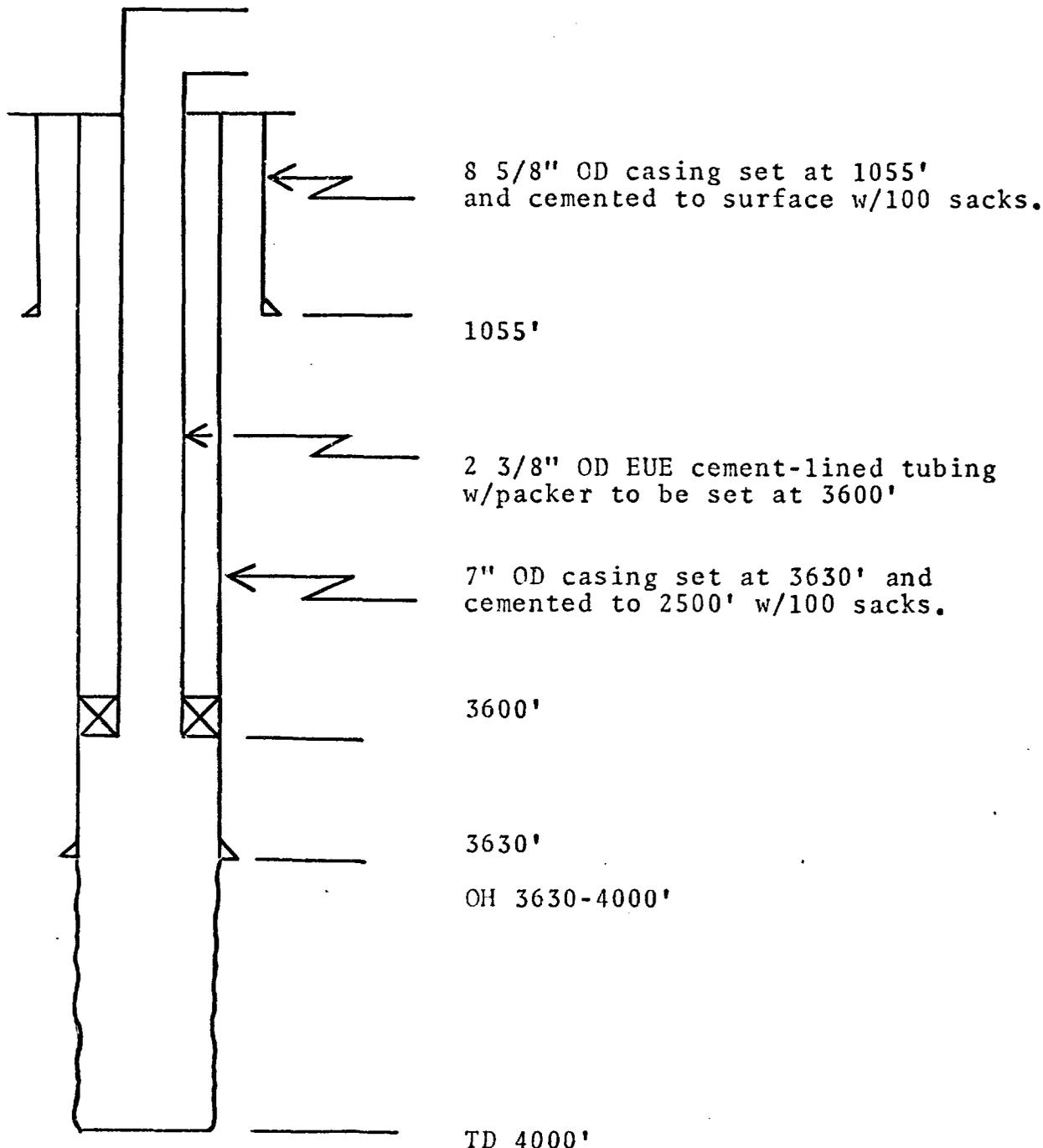
David E. Runyan  
Hope, New Mexico 88250

CONTINENTAL OIL COMPANY

Unit L - 1980' FSL & 660' FWL  
Section 15, 17S, 32E,

HUDSON FEDERAL NO. 1

Elev - DF - 4035'



PROPOSED PROCEDURE

1. Tag bottom and tally out. Clean out any fill to 4000'. (if above 3990')
2. Run gamma ray-neutron log (2" & 5" from 4000-3000'. Caliper open hole.
3. Run 3 joints open end tubing, make wireline dummy run to determine if injection survey tools can run to 3980'.
4. Run cement-lined tubing with packer to be set at 3600'. Run 2" fiber glass tailpipe to 3980' (380) if required (dummy run - 3) - bull plug bottom and drill 16 1/2" holes over 4' section of bottom joint. Commence injection .

NOTE: tubing to be electronically inspected on rack.

1-9-69

JAG

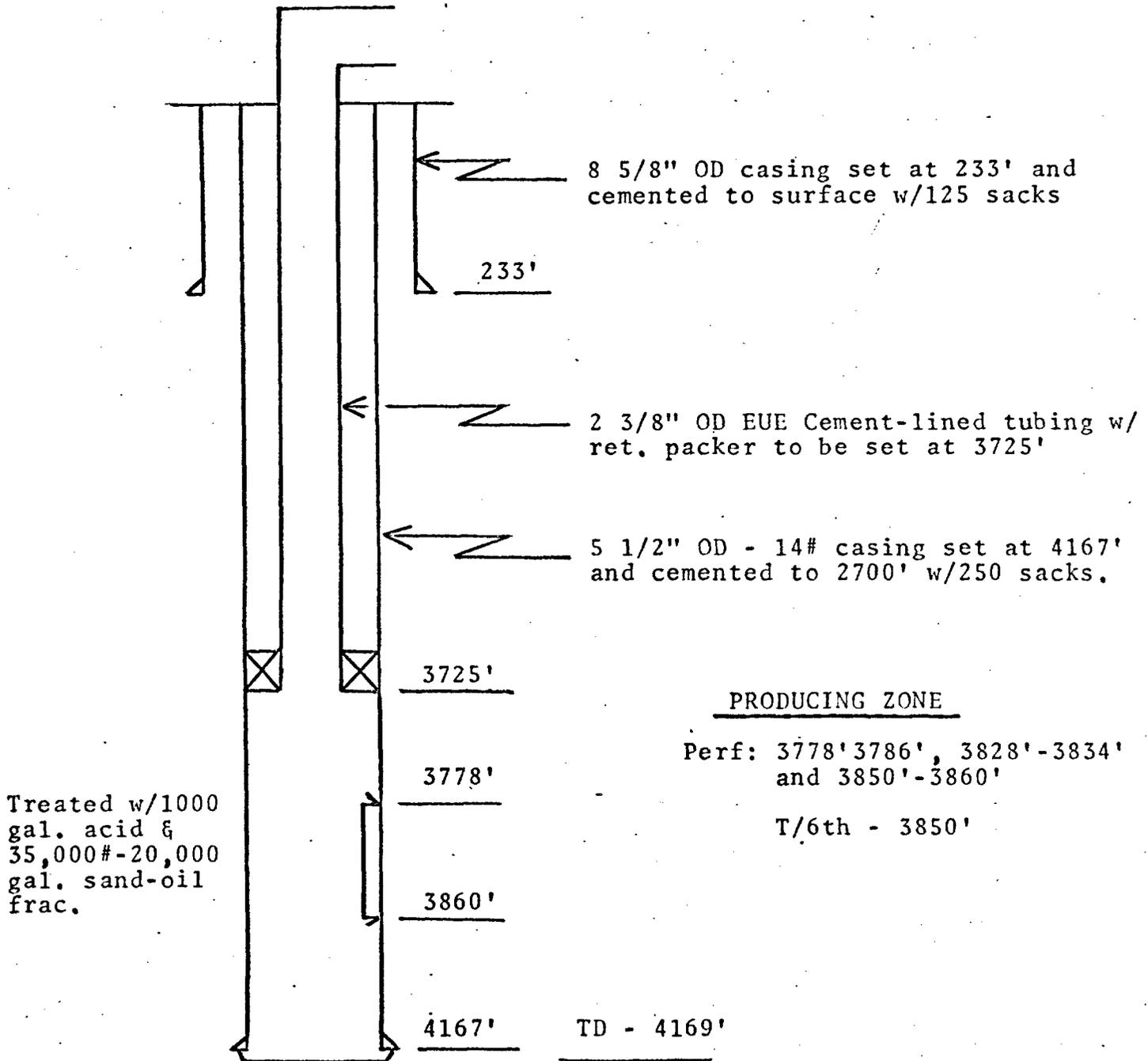
Revised

CONTINENTAL OIL COMPANY - GULF STATE "E" NO. 3

Unit L - 1720' FSL & 990' FWL Section 16-17S-32E

Elev - BHF - 4047'

KB - 4059'



PROPOSED PROCEDURE

1. Pull rods and pump. Tag bottom and tally out.
2. If any fill above 3855', clean out to 3890'.
3. Run cement-lined 2 3/8" OD EUE tubing with ret. packer to be set at 3725'.
4. Hook-up and commence water injection.

NOTE: Tubing in well to be electronically inspected on rack.

WATER INJECTION WELL DATA - MCA UNIT

<u>Well Designation</u>	<u>Total Depth or PD</u>	<u>Surface Casing</u>			<u>OD</u>	<u>Depth</u>	<u>Production Casing</u>			<u>Producing Interval</u>
		<u>Sacks Cement</u>	<u>Top</u>	<u>Cement</u>			<u>Sacks Cement</u>	<u>Depth</u>	<u>Top</u>	
Continental Oil Company Gulf State No. 3	4169	8 5/8"	233'	125	Surface	5 1/2"	4167	250	2700'	3778-3860 (perf.)
Continental Oil Company Hudson-Federal No. 1	4000	8 5/8"	1055'	100	Surface	7"	3630	100	2500'	3630-4000' (OH)

LARGE FORMAT  
EXHIBIT HAS  
BEEN REMOVED  
AND IS LOCATED  
IN THE NEXT FILE