PAN ARGRICAN PETROLEUM CORP. Feyer "B" Mo. 4 1980: WHL & 660: PWL Section 21:24:37	Harrison No. 3 660' BNL & 660' FWL Section 20-24-37	KING, WARREN & DYE Harrison No. 1 1980' FNL & 1980' FWL Section 20-24-37	GULF OIL CORPORATION RILLA NO. 1 660' FSL & 660 FEL Section 17-24-37	Jack A-29 No. 1 330' FNL & 330" FEL Section 29-24-37	Jack A-20 No. 6 660' FSL & 1980' FEL Section 20-24-37	CONTINENTAL OIL COMPANY Jack A-20 No. 1 1930' FSL & 660 FEL Section 20-24-37	CITIES SERVICE OIL CO. Thomas "F" No. 1 660' FSL & 1980' FEL Section 17-24-37	Company, Lease & Well No.
₹₽. 36821	3611'	35821	36251	36051	3593'	35851	3660/ 3605'	And/or
13 5/8"	11 3/4"	8 5/8"	13 3/4"	10 3/4"	10 3/4"	10 3/4"	9 5/8"	Sur
281'	357'	371'	281'	231'	3761	220'	11741	Surface Casing Depth Cem
200	200	175	22 5	225	175	22 5	625	ing Cement
8 5/8"	None	None	None	7 5/8"	None	7 5/8"	None	Intermediate Size Depti
1269'				1199'		1187		lediate C
400				425		425		Casing h Cement
5 1/2"	7"	5 1/2"	6"	5 1/2"	7"	5 1/2"	7"	Proc
32951	34051	3405'	3350'	32381	33301	3210'	3249'	Producing Ca ze Dopth
130	450	425	350	425	900	425	25 0	Casing Cement
OH 3295-3682'	он 3405-3611'	он 3405-3582'	он 3350-3625'	он 3238-3605'	он 3330-3593'	он 3210-3585'	он 3249-3605'	Producing Interval

Cles 360 3

## BEFORE THE OIL CONSERVATION COMMISSION

OF THE

## STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF CONTINENTAL OIL COMPANY FOR APPROVAL OF THE LANGLIE JACK UNIT AGREEMENT EMBRACING 680 ACRES, MORE OR LESS, LOCATED IN SECTIONS 17, 20, 21, AND 29, TOWNSHIP 24 SOUTH, RANGE 37 EAST, NMPM, LEA COUNTY, NEW MEXICO, AND FOR PERMISSION TO INSTALL AND OPERATE A WATERFLOOD WITHIN THE BOUNDARIES OF SAID UNIT AREA

Care 3663

## APPLICATION

Comes now Applicant, Continental Oil Company, and respectfully requests approval of the Langlie Jack Unit Agreement embracing 680.00 acres, more or less, described as:

S/2 SE/4 Section 17, E/2, N/2 NW/4 and SE/4 NW/4, Section 20 SW/4 NW/4 and W/2 SW/4, Section 21, NE/4 NE/4, Section 29 Township 24 South, Range 37 East, Lea County, New Mexico

and for permission to install and operate a waterflood within said unit, and in support thereof Applicant would show:

- 1. That the Langlie Jack Unit Agreement is attached hereto and marked Exhibit 1.
- 2. That designation of Unit Area and preliminary approval of the Unit Agreement by the U.S.

  Geological Survey was given November 21, 1966.
- 3. That the attached lease plat marked Exhibit 2 shows the Langlie Jack Unit and surrounding area.
- 4. That production in the Unit Area is at an advanced stage of depletion and that recovery by primary methods is at or near the economic limit.

- 5. That engineering investigations indicate that waterflooding the Langlie Jack Unit Area will be physically and economically feasible.
- 6. That agreement between the Working Interest
  Owners has proceeded to the extent that a logical
  and systematic secondary recovery operation is
  assured.
- 7. That the formation to be unitized and water-flooded is the Seven Rivers and Queen formations which are specifically indicated on the radio-activity log of the Continental Oil Company Jack B-26 No. 2 well attached hereto and marked Exhibit 3.
- 8. That all proposed injection wells are or will be completed in such a manner that injected water will be confined to the unitized formation. The present status of all proposed injection wells is shown on the tabulation of injection well data attached hereto and marked Exhibit 4, and on the schematic diagrams attached hereto and marked Exhibits 4-1 through 4-8.
- 9. That applicant proposes to inject a total of approximately 4,800 barrels of water per day into the 8 proposed injection wells on a modified peripheral pattern. Said water will be obtained either from Jalmat oil wells in the area or from an outside supplier.
- 10. That the said waterflood will be installed and operated in conformance with Rule 701E.
- 11. That the proposed unitization and secondary recovery will result in the recovery of hydrocarbons which would not be recovered by primary methods and is therefore in the interest of conservation and prevention of waste.

Application to NMOCC Page 3

Wherefore, Applicant respectfully requests that this matter be set for hearing before the Commission's July qualified Examiner and that upon hearing an order be entered approving the Langlie Jack Unit Agreement, and granting permission to install and operate a waterflood within the Unit Area as described herein above.

Respectfully submitted,

windson

L. P. THOMPSON District Manager Hobbs District

LPT-JS