

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

October 5, 1972

Mr. J. L. Hamilton  
Anadarko Production Company  
Two Greenway Plaza East  
Suite 410  
Houston, Texas 77046

Dear Mr. Hamilton:

Enclosed herewith please find Administrative Order WFX-379 authorizing conversion of three wells to water injection wells in the Langlie-Mattix Penrose Sand Unit Water Flood Project in the Langlie-Mattix Pool in Lea County, New Mexico.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og

cc: Oil Conservation Commission  
Hobbs, New Mexico

APPLICATION OF ANADARKO PRODUCTION  
COMPANY TO EXPAND ITS LANGLIE-  
MATTIX PENROSE SAND UNIT WATER  
FLOOD PROJECT IN THE LANGLIE-MATTIX  
POOL IN LEA COUNTY, NEW MEXICO.

ORDER WFX NO. 379

ADMINISTRATIVE ORDER  
OF THE OIL CONSERVATION COMMISSION

Under the provisions of Order No. R-4284, Anadarko Production Company has made application to the Commission on September 20, 1972, for permission to expand its Langlie-Mattix Penrose Sand Unit Water Flood Project in the Langlie-Mattix Pool, Lea County, New Mexico.

NOW, on this 5th day of October, 1972, the Secretary-Director finds:

1. That application has been filed in due form.
2. That satisfactory information has been provided that all offset operators have been duly notified of the application.
3. That no objection has been received within the waiting period as prescribed by Order No. R-4284.
4. That the proposed injection wells are eligible for conversion to water injection under the terms of Order No. R-4284.
5. That the proposed expansion of the above-referenced water flood project will not cause waste nor impair correlative rights.
6. That the application should be approved.

IT IS THEREFORE ORDERED:

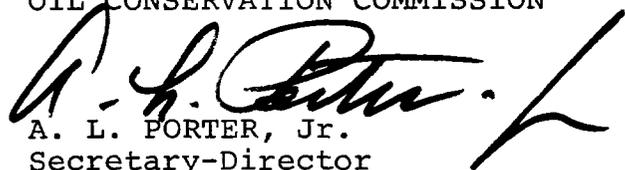
That the applicant, Anadarko Production Company, be and the same is hereby authorized to inject water into the Penrose formation through the following described wells for purposes of secondary recovery, to wit:

Tract 3 Well No. 3 located in Unit B of Section 22,  
Tract 5-A Well No. 1 located in Unit D of Section 22,  
and Tract 7 Well No. 3 located in Unit B of Section 21,  
all in Township 22 South, Range 37 East, NMPM.

PROVIDED HOWEVER, that the applicant shall inject water through tubing and under a packer set as close to the injection zone as is practicable.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

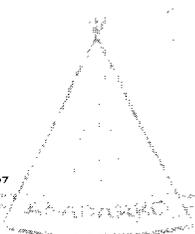
  
A. L. PORTER, Jr.  
Secretary-Director

379

**A N A D A R K O P R O D U C T I O N C O M P A N Y**

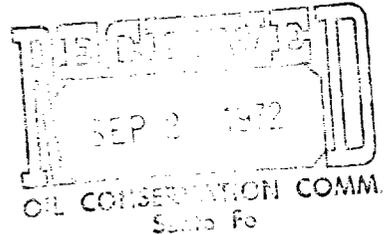
**TWO GREENWAY PLAZA EAST, SUITE 410, HOUSTON, TEXAS 77046, (713) 626-7610**

GENERAL OFFICE  
P. O. BOX 9317  
FORT WORTH, TEXAS 76107



September 18, 1972

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



RE: Langlie-Mattix Penrose Sand Unit  
Langlie-Mattix Oil Pool  
Lea County, New Mexico

Gentlemen:

Anadarko Production Company, as Unit Operator of the Langlie-Mattix Penrose Sand Unit, Langlie-Mattix Oil Pool, Lea County, New Mexico, hereby requests administrative approval, as previously authorized by OCC Order No. R-3247, to expand Unit waterflood development under the provisions of OCC Rule 701-E-5.

The proposed expansion of the waterflood development on the reference Unit includes the conversion of three (3) Unit wells to water injection. These three (3) wells are listed on the attached Table I with well location and pertinent well data.

The OCC Rule 701-E-5 requirement of the showing of oil production response to water injection operations prior to expansion of waterflood development was waived by OCC Order No. ~~R-3247~~ *R-7115*.

Expansion of waterflood development under OCC Rule 701-E-5 also requires that the application be made in accordance with OCC Rule 701-B. In accordance with OCC Rule 701-B, the following data and information is enclosed:

- (1) Plat of Unit Area showing location of proposed water injection wells.
- (2) Well bore diagram of Langlie-Mattix Penrose Sand Unit No. 7-3 showing well's total depth, open hole producing intervals, casing and cementing program, proposed tubing and packer setting, and type and quantity of water to be injected. This well has been selected as typical of the three (3) existing Unit producing wells proposed for conversion to water injection.

- (3) Driller's log of Langlie-Mattix Penrose Sand Unit  
Well No. 7-3 (no electrical surveys available).

This proposed expansion will complete waterflood development on the Unit for the secondary recovery of oil from the Penrose Sand reservoir.

Your approval at your earliest convenience will be appreciated.

Very truly yours,

ANADARKO PRODUCTION COMPANY

*J. L. Hamilton*  
by *CS*  
J. L. Hamilton  
Division Production Engineer

JLH/CWS/yim

Encl.

cc: USGS-Roswell  
New Mexico Commission of Public Lands  
Offset Operators - Gulf Oil Corp.  
Continental Oil Co.

Table I  
 Langlie-Mattix Penrose Sand Unit  
 Langlie-Mattix Oil Pool  
 Lea County, New Mexico  
 Well Location and Data  
Expansion Water Injection Wells

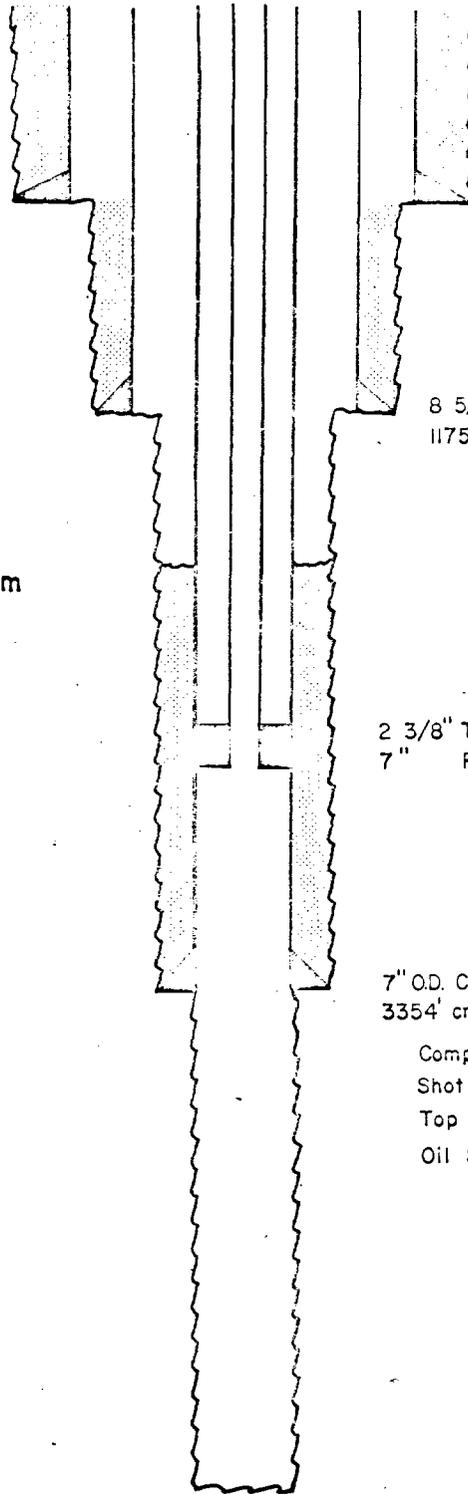
Well No.	Location T22S, R37E	SURFACE		Casing Record		LONG STRING		Total Depth Feet	Open Hole Interval	Packer set @
		Size(in.)	Depth (ft.)	Cement(sx)	Size(in.)	Depth(ft.)	Cement(sx)			
3-3	660' SNL, 1980' WEL Section 22	8-5/8" OD	1125'	150	7" OD	3383'	250	3688'	3383'-3688'	3335'
5A-1	660' SNL, 660' EWL Section 22	16" OD 8-5/8" OD	198' 1168'(top 200' pulled)	60 Unknown	7" OD	3400'	400	3712'	3400'-3712'	3337'
7-3	660' SNL, 1980' WEL Section 21	8-5/8" OD	1175'	100	7" OD	3354'	100	3615'	3354'-3615'	3302'

**Insert**

**Color Page/Photo**

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Proposed Injection Rate:  
500 B/D  
Injection Water Source:  
Nonpotable water purchased from  
Skelly Oil Company's Jal Water  
System



13 3/8" O.D. Casing at  
240' cmt. w/250 sks.

8 5/8" O.D. Casing at  
1175' cmt. w/100 sks.

2 3/8" Tubing at 3300'  
7" Packer at 3302'

7" O.D. Casing at  
3354' cmt. w/100 sks.

Completed in open hole 3354'-3615'

Shot w/300 qts. Nitro 3530'-3615'

Top Pay 3500'

Oil Sand 3500'-3607' - PENROSE SAND

#### WELL LOCATION

L.M.P.S.U. 7-3  
660' SNL & 1980' WEL  
Sec. 21, T-22-S, R-37-E  
Lea Co., New Mexico

ANADARKO PRODUCTION COMPANY

#### WELL BORE DIAGRAM

LANGLIE MATTIX PENROSE SAND UNIT

WELL NO. 7-3

LEA COUNTY, NEW MEXICO

