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STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION



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SANTA FE, NEW MEXICO 87504
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ADMINISTRATIVE ORDER NO. WFX-648

***APPLICATION OF TEXACO EXPLORATION AND PRODUCTION, INC. TO EXPAND
ITS COOPER JAL UNIT WATERFLOOD PROJECT IN THE LANGLIE MATTIX AND
JALMAT POOL IN LEA COUNTY, NEW MEXICO***

**ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION DIVISION**

Under the provisions of Division Order No. R-4019, and R-4020 Texaco Exploration and Production, Inc. has made application to the Division on July 2, 1993 for permission to expand its Cooper Jal Unit Waterflood Project in the Langlie Mattix and Jalmat Pools in Lea County, New Mexico.

THE DIVISION DIRECTOR FINDS THAT:

- (1) The application has been filed in due form.
- (2) Satisfactory information has been provided that all offset operators have been duly notified of the application.
- (3) No objection has been received within the waiting period as prescribed by Rule 701(B).
- (4) The proposed injection well is eligible for conversion to injection under the terms of Rule 701.
- (5) The proposed expansion of the above referenced Cooper Jal Unit Waterflood Project will not cause waste nor impair correlative rights.
- (6) The application should be approved.

IT IS THEREFORE ORDERED THAT:

The applicant, Texaco Exploration and Production, Inc., be and the same is hereby authorized to inject water into the Tansill, Yates, Seven Rivers and Queen formations at approximately 2980 feet to approximately 3650 feet through 2 3/8-inch or 2 7/8-inch plastic lined tubing set in a packer located within 100 feet of the uppermost injection perforations in the following described wells for purposes of secondary recovery. Two wells, the Cooper Jal Unit Nos. 112 and 122, are existing Langlie Mattix completions and by this order will be dually completed into the Jalmat Pool. Three wells, the Cooper Jal Unit Nos. 205, 211 and 220, are existing Jalmat completions and will be dually completed into the Langlie Mattix Pool. Two wells, the Cooper Jal Unit Nos. 116 and 126, will be new dual completions into both pools. Two wells, the Cooper Jal Unit Nos. 132 and 151, will be completed through the Langlie Mattix Pool only. These wells are further described on Exhibits "A-1" through "A-4" attached hereto.

IT IS FURTHER ORDERED THAT:

The operator shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

Prior to commencing injection operations into the well, the casing shall be pressure tested from the surface to the packer setting depth to assure the integrity of said casing.

The casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge at the surface or left open to the atmosphere to facilitate detection of leakage in the casing, tubing or packer.

The injection well or system shall be equipped with a pressure limiting device which will limit the wellhead pressure on the injection well to no more than .2 psi/ft. of depth to the uppermost injection perforation.

The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the injected fluid from the Tansill, Yates, Seven Rivers and Queen formations. Such proper showing shall consist of a valid step-rate test run in accordance with and acceptable to this office.

The operator shall notify the supervisor of the Hobbs district office of the Division of the date and time of the installation of injection equipment and of the mechanical integrity tests so that the same may be inspected and witnessed.

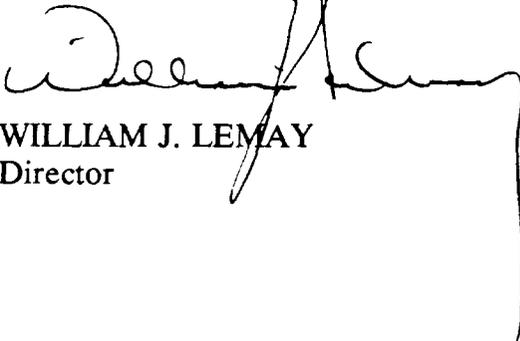
The operator shall immediately notify the supervisor of the Hobbs district office of the Division of the failure of the tubing, casing or packer in said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

The subject well shall be governed by all provisions of Division Order No. R-4019 and R-4020, as amended and Rules 702-706 of the Division Rules and Regulations not inconsistent herewith.

PROVIDED FURTHER THAT, jurisdiction of this cause is hereby retained by the Division for the entry of such further order or orders as may be deemed necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of the operator to conduct operations in a manner which will ensure the protection of fresh water or in a manner inconsistent with the requirements set forth in this order, the Division may, after notice and hearing, terminate the injection authority granted herein.

DONE at Santa Fe, New Mexico, on this 1st day of October, 1993.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


WILLIAM J. LEMAY
Director

S E A L

cc: Oil Conservation Division - Hobbs

EXHIBIT "A-3"
 DIVISION ORDER NO. WFX-648
 COOPER JAL UNIT WATERFLOOD
 APPROVED INJECTION WELLS - NEW DUAL COMPLETIONS - JALMAT AND LANGLEIE MATTIX POOLS

Well Name	Well No.	Location	Unit	S-T-R	Injection Interval	Packer Depth	Tubing Size	Injection Pressure
Cooper Jal Unit	116	660' FSL & 660' FWL	M	18-24S-37E	2980' to 3641'	2949'	2 3/8"	596 psig
Cooper Jal Unit	126	1650' FNL & 2310' FEL	G	24-24S-36E	3022' to 3560'	2979'	2 3/8"	604 psig

EXHIBIT "A-4"
 DIVISION ORDER NO. WFX-648
 COOPER JAL UNIT WATERFLOOD
 APPROVED INJECTION WELLS - LANGLEIE MATTIX POOL ONLY

Well Name	Well No.	Location	Unit	S-T-R	Injection Interval	Packer Depth	Tubing Size	Injection Pressure
Cooper Jal Unit	132	2310' FSL & 990' FEL	I	24-24S-36E	3475' to 3640'	3454'	2 3/8"	691 psig
Cooper Jal Unit	151	771' FNL & 170' FEL	A	24-24S-36E	3296' to 3608'	3254'	2 7/8"	659 psig

EXHIBIT "A-1"
 DIVISION ORDER NO. WFX-648
 COOPER JAL UNIT WATERFLOOD
 APPROVED INJECTION WELLS - EXISTING LANGLIE MATTIX - ADDING JALMAT POOL

Well Name	Well No.	Location	Unit	S-T-R	Injection Interval	Packer Depth	Tubing Size	Injection Pressure
Cooper Jal Unit	112	330' FSL & 990' FWL	M	13-24S-36E	3030' to 3617'	2979'	2 3/8"	606 psig
Cooper Jal Unit	122	330' FNL & 990' FEL	A	24-24S-36E	3000' to 3552'	2954'	2 3/8"	600 psig

EXHIBIT "A-2"
 DIVISION ORDER NO. WFX-648
 COOPER JAL UNIT WATERFLOOD
 APPROVED INJECTION WELLS - EXISTING JALMAT - ADDING LANGLIE MATTIX POOL

Well Name	Well No.	Location	Unit	S-T-R	Injection Interval	Packer Depth	Tubing Size	Injection Pressure
Cooper Jal Unit	205	1980' FNL & 1650' FEL	G	24-24S-36E	3000' to 3650'	2954'	2 3/8"	600 psig
Cooper Jal Unit	211	2310' FSL & 2310' FWL	K	24-24S-36E	3020' to 3650'	2954'	2 3/8"	604 psig
Cooper Jal Unit	220	660' FSL & 628' FWL	M	19-24S-37E	2986' to 3650'	2886'	2 3/8"	597 psig