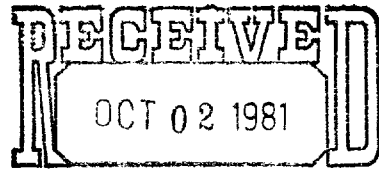




PETROLEUM PRODUCTS

PRODUCING DEPARTMENT



OIL CONSERVATION DIVISION

SANTA FE

TEXACO

U.S.A.

A DIVISION OF TEXACO INC.

P. O. BOX 3109

MIDLAND, TEXAS 79702

REQUEST FOR HEARING  
UNITIZATION AND PRESSURE MAINTENANCE  
OPERATIONS  
PROPOSED NORTH VACUUM ABO WEST UNIT  
VACUUM ABO NORTH FIELD  
LEA COUNTY, NEW MEXICO

The State of New Mexico  
Dept. of Energy & Minerals  
Oil Conservation Division  
P. O. Box 2088  
Santa Fe, New Mexico 87501

*Case 7399*

Attention: Mr. Joe D. Ramey  
Secretary-Director

Gentlemen:

Texaco Inc., as operator of the Proposed North Vacuum Abo West Unit, respectfully requests that evidence be considered at the Examiner Hearing in Santa Fe, New Mexico for an application to:

- (1) Unitize 2000 acres, more or less, in the Vacuum Abo North Field, and
- (2) Initiate water injection operations for pressure maintenance purposes.

The Proposed North Vacuum Abo West Unit area is comprised of the following leases, all located in T-17-S, R-34-E in Lea County, New Mexico:

Coseka Resources (U.S.A.) Ltd.  
Conoco State - S/2 NW/4 & N/2 SW/4 Sec. 15

Exxon Corporation  
State "CQ" - NW/4 Sec. 22

Gulf Oil Exploration & Production Company  
State "RITTS" - S/2 NE/4 Sec. 21

Marathon Oil Company  
State "B" - N/2 NE/4 Sec. 28

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Mobil Producing Texas & New Mexico Inc.  
Conoco State - N/2 NW/4 Sec. 15

Phillips Petroleum Company  
State "LEA" - SE/4 & S/2 SW/4 Sec. 21

Southland Royalty Company  
State "NV" - S/2 SW/4 Sec. 15; S/2 NE/4 & N/2 SE/4 Sec. 28  
Conoco State Comm. "AZ" - W/2 SW/4 Sec. 22  
Conoco State - E/2 SW/4 Sec. 22

Texaco Inc.  
N.M. "D" State NCT-1 - W/2 Sec. 27  
N.M. "T" State NCT-4 - NW/4 Sec. 28  
N.M. "T" State NCT-3 - S/2 SE/4 Sec. 28  
N.M. "V" State - N/2 NW/4, SW/4 NW/4 & NW/4 SW/4 Sec. 34  
N.M. "O" State NCT-2 - N/2 SE/4 Sec. 33

It is planned to implement a 160-acre five-spot flood pattern which is compatible with the offsetting North Vacuum Abo Unit. This pattern will be developed by converting 13 currently producing wells to water injection service. Water injection will be into the Vacuum Abo formation through internally plastic-coated tubing with a packer set above the injection interval. The injection system will be a closed system. Based on injection histories in the North Vacuum Abo Unit and the North Vacuum Abo East Unit, surface injection pressures of 3,000 psi or more are anticipated and consequently an injection pressure limitation of 3,500 psi will be requested initially. The estimated injection rate is 2,500 BWP/D, with the injected fluid being fresh water purchased from the Double Eagle Water Company.

The proposed unitized interval, the Abo, is a lime/dolomite formation located between the subsea depths (-4500') to (-4850') in Texaco's New Mexico "T" State (NCT-4) Well No. 3. This zone is overlain by the Ogallala formation, a fresh water interval found above approximately 180 feet. There are no fresh water zones underlying the Abo.

Attached are the following:

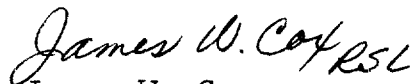
1. Form C-108, "Application for Authorization to Inject" with attachments as required thereon, including proof of notification to offset operators,
2. A plat of the proposed project area showing current lease operators and well numbers,
3. A plat showing proposed well numbers, and
4. A type log showing proposed unitization interval.

The State of New Mexico  
Dept. of Energy & Minerals  
Oil Conservation Division

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A copy of this letter is being furnished to the Commissioner of Public Lands in Santa Fe, New Mexico; to the Working Interest Owners; and to the Offset Operators.

Yours very truly,

A handwritten signature in cursive script that reads "James W. Cox". To the right of the signature, the letters "RSL" are handwritten.

James W. Cox  
Petroleum Engineering Manager

CRW/pw

Attachments

cc: Commissioner of Public Lands  
Working Interest Owners (Mailing List Attached)  
Offset Operators (Mailing List Attached)  
OCD District Office-Hobbs