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OIL CONSERVATION DIVISION  
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February 28, 1992

State of New Mexico  
Energy, Minerals and Natural Resources Dept.  
Oil Conservation Division  
P.O. Box 2088  
Sante Fe, NM 87504-2088

Attn: Mr. David Catanach  
Engineer, New Mexico Oil Conservation Division

SUBJECT: ADMINISTRATIVE ORDER NO. PMX-167  
EXPANSION OF PRESSURE MAINTENANCE PROJECT  
VACUUM GRAYBURG SAN ANDRES UNIT (VGSAU)  
VACUUM GRAYBURG SAN ANDRES POOL  
LEA COUNTY, NM

Mr. Catanach:

Recently Texaco received administrative approval to expand its pressure maintenance project on the subject lease by converting three wells to water injection (Order No. PMX-167, attached).

Texaco request that the Order be amended to include some additional injection perforations in the three wells. The amended intervals are:

VGSAU #148: 4251'-4710'  
VGSAU #149: 4132'-4733'  
VGSAU #150: 4137'-4733'

The additional pay is still within the unitized interval, and is open and being produced from in offset VGSAU production wells.

Thank you for your cooperation in this matter. If you have any questions or require any further information please contact me at (505) 393-7191.

Sincerely,

*William T. Lackey*

W. Todd Lackey  
Production Engineer, Hobbs Area

/wtl

File/Chrono  
Attachments



BRUCE KING  
GOVERNOR

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

RSP	JLA
MCA	JWB
DDD	MLG
RBD	PLH
MCD	PDH
REH	JDL
LWJ	CPM
WTD	MGR
DLM	SDU
RTM	JY
TWM	
LOR	HMC
RJR	OLH
CES	RWB

WELL FILE



POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504  
(505) 827-5800

ADMINISTRATIVE ORDER NO. PMX-167

APPLICATION OF TEXACO EXPLORATION & PRODUCTION, INC. TO EXPAND ITS  
PRESSURE MAINTENANCE PROJECT IN THE VACUUM GRAYBURG SAN ANDRES  
POOL IN LEA COUNTY, NEW MEXICO

ADMINISTRATIVE ORDER  
OF THE OIL CONSERVATION DIVISION

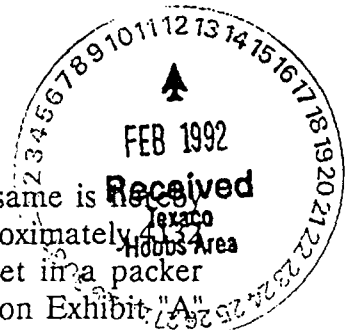
Under the provisions of Division Order No. R-4442, Texaco Exploration & Production, Inc. has made application to the Division on January 27, 1992, for permission to expand its Vacuum Grayburg San Andres Pressure Maintenance Project in the Vacuum Grayburg San Andres Pool in Lea County, New Mexico.

THE DIVISION DIRECTORS 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 water injection under the terms of Rule 701.
- (5) The proposed expansion of the above-referenced Vacuum Grayburg San Andres Pressure Maintenance Project will not cause waste nor impair correlative rights.
- (6) The application should be approved.

IT IS THEREFORE ORDERED THAT:

The applicant, Texaco Exploration & Production, Inc., be and the same is hereby authorized to inject water into the Grayburg - San Andres formation at approximately 4134 feet to approximately 4690 feet through 2 3/8 inch plastic lined tubing set in a packer located within 100 feet of the uppermost perforations in the wells shown on Exhibit "A" attached hereto for purposes of pressure maintenance to wit.



Administrative Order PMX-167  
Texaco Exploration & Production, Inc.  
February 10, 1992  
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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 wells, the casing in each well shall be pressure tested from the surface to the packer setting depth to assure the integrity of said casing.

The casing-tubing annulus in each well 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 wells or system shall be equipped with a pressure limiting device which will limit the wellhead pressure on the injection wells to no more than 0.2 psi/ft. of depth to the uppermost perforation.

The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said wells that such higher pressure will not result in migration of the injected fluid from the Grayburg - San Andres formation. 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 test 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 wells and shall take such steps as may be timely and necessary to correct such failure or leakage.

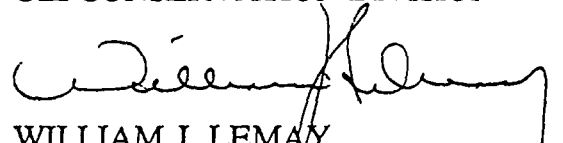
The subject well shall be governed by all provisions of Division Order No. R-4442 and Rules 701-708 of the Division Rules and Regulations not inconsistent herewith.

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Texaco Exploration & Production, Inc.  
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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.

Approved at Santa Fe, New Mexico, on this 10th day of February, 1992.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

  
WILLIAM J. LEMAY  
Director

S E A L

jc\

cc: OCD - Hobbs  
U.S. BLM - Carlsbad

EXHIBIT "A"  
DIVISION ORDER NO. 167-PMX  
VACUUM GRAYBURG SAN ANDRES UNIT  
APPROVED INJECTION WELLS

Well Number	Location	Unit	S-T-R	Injection Perforations	Packer Depth	Tubing Size	Injection Pressure
VGSU No. 148	1330' FNL & 660' FWL	D	1-18S-34E	4320' - 4690'	4270'	2 3/8"	864 PSIG
VGSU No. 149	1330' FNL & 1980' FWL	C	1-18S-34E	4132' - 4590'	4085'	2 3/8"	826 PSIG
VGSU No. 150	1390' FNL & 1980' FEL	G	1-18S-34E	4137' - 4682'	4090'	2 3/8"	827 PSIG