NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

*ADMINISTRATIVE ORDER NO. WFX-694*

***APPLICATION OF THE WISER OIL COMPANY TO EXPAND ITS WATERFLOOD PROJECT IN THE MALJAMAR GRAYBURG-SAN ANDRES POOL IN LEA COUNTY, NEW MEXICO.***

ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION DIVISION

Under the provisions of Division Order No. R-10094, The Wiser Oil Company has made application to the Division on September 18, 1996 for permission to expand its Caprock Maljamar Unit Waterflood Project in the Maljamar Grayburg-San Andres Pool 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 wells are eligible for conversion to injection under the terms of Rule 701.

(5) The proposed expansion of the above referenced waterflood project will not cause waste nor impair correlative rights.

(6) The proposed expansion is part of an approved Enhanced Oil Recovery waterflood project pursuant to the "New Mexico Oil Recovery Act".

(7) The application should be approved.

IT IS THEREFORE ORDERED THAT:

The applicant, The Wiser Oil Company, be and the same is hereby authorized to inject water into the Grayburg and San Andres formations at approximately 3764 feet to approximately 4515 feet through 2 3/8-inch plastic lined tubing set in a packer located within 100 feet of the uppermost injection perforations in the wells described on Exhibit "A" attached hereto, for purposes of secondary recovery.

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 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 wells to no more than .2 psi per foot 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 wells that such higher pressure will not result in migration of the injected fluid from the Grayburg or San Andres 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 wells and shall take such steps as may be timely and necessary to correct such failure or leakage.

The subject wells shall be governed by all provisions of Division Order No. R-10094, 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.

The injection authority granted herein shall terminate one year after the effective date of this order if the operator has not commenced injection operations into the subject wells, provided however, the Division, upon written request by the operator, may grant an extension thereof for good cause shown.

DONE at Santa Fe, New Mexico, on this 17th day of October, 1996.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

WILLIAM J. LEMAY
Director

S E A L

cc: Oil Conservation Division - Hobbs
Mr. John Chavez, Secretary, Taxation & Revenue
Ms. Bonnie Jones, J.O. Easley, Inc.
Files: Case No.10931&32; EOR-18

**AMENDED** EXHIBIT "A"
DIVISION ORDER NO. WFX-694
**CAPROCK MALJAMAR UNIT**
APPROVED INJECTION WELLS

| *Well Name* | *Well No.* | *Location* | *Unit* | *S-T-R* | *Injection Perforations* | *Packer Depth* | *Tubing Size* | *Pressure* |
|---|---|---|---|---|---|---|---|---|
| **Caprock Maljamar Unit** | **45** | **660' FNL & 660' FWL** | **D** | **21-T17S-R33E** | **4234' - 4449'*** | **4220'** | **2 3/8"** | **847 PSIG** |
| Caprock Maljamar Unit | 58 | 1980' FNL & 660' FWL | E | 21-T17S-R33E | 4238' - 4450'* | 4138' | 2 3/8" | 848 PSIG |
| Caprock Maljamar Unit | 60 | 1980' FSL & 620' FWL | L | 24-T17S-R33E | 4070' - 4155' | 3970' | 2 3/8" | 814 PSIG |
| Caprock Maljamar Unit | 63 | 1980' FSL & 66' FEL | I | 24-T17S-R33E | 4200' - 4218' | 4100' | 2 3/8" | 840 PSIG |
| Caprock Maljamar Unit | 65 | 2310' FSL & 2379' FWL | K | 19-T17S-R33E | 4120' - 4330' | 4020' | 2 3/8" | 824 PSIG |
| Caprock Maljamar Unit | 72 | 1980' FSL & 660' FWL | L | 21-T17S-R33E | 4236' - 4444' | 4216' | 2 3/8" | 847 PSIG |
| Caprock Maljamar Unit | 73 | 660' FSL & 660' FWL | M | 24-T17S-R33E | 3770' - 4300'* | 3750' | 2 3/8" | 754 PSIG |
| Caprock Maljamar Unit | 76 | 330' FSL & 990' FEL | P | 24-T17S-R33E | 4180' - 4296' | 4071' | 2 3/8" | 836 PSIG |
| Caprock Maljamar Unit | 79 | 990' FSL & 2310' FEL | O | 19-T17S-R33E | 4078' - 4340' | 3978' | 2 3/8" | 816 PSIG |
| Caprock Maljamar Unit | 82 | 330' FSL & 2310' FWL | N | 20-T17S-R33E | 4105' - 4202' | 4005' | 2 3/8" | 821 PSIG |
| Caprock Maljamar Unit | 84 | 660' FSL & 660' FEL | P | 20-T17S-R33E | 4234' - 4409'* | 4220' | 2 3/8" | 847 PSIG |
| Caprock Maljamar Unit | 85 | 660' FSL & 660' FWL | M | 21-T17S-R33E | 4254' - 4443'* | 4154' | 2 3/8" | 851 PSIG |
| Caprock Maljamar Unit | 89 | 990' FNL & 1650' FWL | C | 28-T17S-R33E | 4287' - 4472' | 4187' | 2 3/8" | 857 PSIG |
| Caprock Maljamar Unit | 92 | 1980' FNL & 1980' FEL | G | 28-T17S-R33E | 4260' - 4480'* | 4160' | 2 3/8" | 852 PSIG |
| Caprock Maljamar Unit | 93 | 1980' FSL & 660' FWL | L | 28-T17S-R33E | 4200' - 4352' | 4100' | 2 3/8" | 840 PSIG |
| Caprock Maljamar Unit | 94 | 1980' FSL & 1980' FWL | K | 28-T17S-R33E | 4194' - 4384' | 4094' | 2 3/8" | 839 PSIG |
| Caprock Maljamar Unit | 100 | 330' FSL & 2310' FEL | O | 28-T17S-R33E | 4228' - 4480'* | 4128' | 2 3/8" | 846 PSIG |
| Caprock Maljamar Unit | 104 | 1980' FNL & 660' FEL | H | 33-T17S-R33E | 3764' - 4503' | 3664' | 2 3/8" | 753 PSIG |
| Caprock Maljamar Unit | 205 | 1650' FSL & 1059' FWL | L | 19-T17S-R33E | 4044' - 4291' | 3398' | 2 3/8" | 809 PSIG |
| Caprock Maljamar Unit | 260 | 1780' FNL & 660' FEL | H | 18-T17S-R33E | 4150' - 4512' | 4050' | 2 3/8" | 830 PSIG |
| Caprock Maljamar Unit | 261 | 760' FSL & 2080' FEL | O | 18-T17S-R33E | 4202' - 4515' | 4102' | 2 3/8" | 840 PSIG |

All wells located in Lea County, New Mexico

* Open-hole Completions