



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**

Cabinet Secretary

**Lori Wrotenbery**

Director

**Oil Conservation Division**

February 18, 2003

Yates Petroleum Corporation  
105 South Fourth Street  
Artesia, New Mexico 88210

**Re: Administrative Order SWD-852**

Gentlemen:

The New Mexico Oil Conservation Division (Division) via administrative order SWD-852 signed October 5, 2002, gave Yates Petroleum Corporation permission to inject produced water into the Canyon Formation from 8032 feet to 8150 feet in the Archimedes "ARE" State Well No. 1 located 1650 feet from the South line and 1980 feet from the East line (Unit J) of Section 18, Township 21 South, Range 24 East, NMPM, Eddy County, New Mexico.

As per the agreement reached between Marathon Oil Company and Yates Petroleum Corporation prior to the January 23, 2003, Division hearing of Case 12991 (Division order R-11902), administrative order SWD-852 is hereby **rescinded**.

Sincerely,

Lori Wrotenbery  
Director

cc: OCD Artesia /  
Marathon Oil Company  
SWD-814, SWD-852, Case 12991





# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**Bill Richardson**  
Governor  
**Joanna Prukop**  
Cabinet Secretary

**Lori Wrotenbery**  
Director  
Oil Conservation Division



**AMENDED ADMINISTRATIVE ORDER SWD-814-A**

## **APPLICATION OF YATES PETROLEUM CORPORATION FOR SALT WATER DISPOSAL, EDDY COUNTY, NEW MEXICO.**

### **ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION**

Under the provisions of Rule 701(B), Yates Petroleum Corporation made application to the New Mexico Oil Conservation Division on September 4, 2001, for permission to complete for salt water disposal its Archimedes ARE State Com No. 1 (API 30-015-10414) located 1650 feet from the South line and 1980 feet from the East line (Unit J) of Section 18, Township 21 South, Range 24 East, NMPM, Eddy County, New Mexico.

#### **THE DIVISION DIRECTOR FINDS THAT:**

- (1) The application has been duly filed under the provisions of Rule 701(B) of the Division Rules and Regulations;
- (2) Satisfactory information has been provided that all offset operators and surface owners have been duly notified;
- (3) The applicant has presented satisfactory evidence that all requirements prescribed in Rule 701 will be met; and
- (4) No objections have been received within the waiting period prescribed by said rule.

#### **IT IS THEREFORE ORDERED THAT:**

Yates Petroleum Corporation is hereby authorized to complete its Archimedes ARE State Com No. 1 (API 30-015-10414) located 1650 feet from the South line and 1980 feet from the East line (Unit J) of Section 18, Township 21 South, Range 24 East, NMPM, Eddy County, New Mexico, in such a manner as to permit the injection of produced water for disposal purposes into the Devonian formation from approximately 10,600 feet to 10,800 feet through 4 1/2 inch plastic-lined tubing **set in a liner at approximately 6,000 feet.**

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, a 4½-inch liner shall be set from a depth of 6,000 feet to 11,000 feet and shall be cemented throughout this interval. Prior to commencing injection operations, **and every five years thereafter**, the 7-inch casing and 4½-inch liner shall be pressure tested from the surface down to the top of the perforations at 10,600 feet to assure the integrity of the casing/liner.

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 **2120 psi**.

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 Devonian 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 Artesia district office of the Division of the date and time of the installation of disposal equipment and of any mechanical integrity test so that the same may be inspected and witnessed.

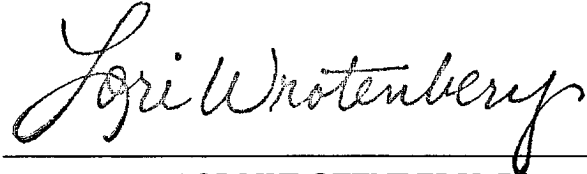
The operator shall immediately notify the supervisor of the Artesia district office of the Division of the failure of the tubing, casing, or packer in said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

PROVIDED FURTHER THAT, jurisdiction is retained by the Division for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (1) to protect fresh water or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, terminate the injection authority granted herein.

The operator shall submit monthly reports of the disposal operations on Division Form C-120-A, in accordance with Rule Nos. 706 and 1120 of the Division Rules and Regulations.

The injection authority granted herein shall terminate **180 days after the effective date of this amendment to this order** if the operator has not commenced injection operations into the subject well, provided however, the Division, upon written request by the operator, may grant an extension thereof for good cause shown.

Originally approved at Santa Fe, New Mexico, on the 3rd day of October 2001. **This amendment - raising the 4½-inch liner top to approximately 6,000 feet - approved on this 18<sup>th</sup> day of February 2003.**



LORI WROTENBERY, Director

LW/wvjj

cc: Oil Conservation Division - Artesia ✓  
State Land Office - Oil and Gas Division