



**NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT**

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

***AMENDED ADMINISTRATIVE ORDER SWD-747***

***APPLICATION OF KCS MEDALLION RESOURCES, INC. FOR PRODUCED  
WATER DISPOSAL, EDDY COUNTY, NEW MEXICO.***

**ADMINISTRATIVE ORDER  
OF THE OIL CONSERVATION DIVISION**

Under the provisions of Rule 701(B), KCS Medallion Resources, Inc. made application to the New Mexico Oil Conservation Division on May 21, 1999, with subsequent information submitted on November 16, 1999 and December 6, 1999, for permission to complete for produced water disposal its West Shugart "19" Federal Well No. 2 (API No. 30-015-30501) located 660 feet from the South line and 1980 feet from the East line (Unit O) of Section 19, Township 18 South, Range 31 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;
- (4) Objections were received by Burlington Resources Oil & Gas Company and Concho Resources, L.L.C. The objections of both parties have since been satisfied and subsequently withdrawn; and
- (5) No other objections have been received within the waiting period prescribed by said rule.

**IT IS THEREFORE ORDERED THAT:**

The applicant herein, is hereby authorized to complete its West Shugart "19" Federal Well No. 2 (API No. 30-015-30501) located 660 feet from the South line and 1980 feet from the East line (Unit O) of Section 19, Township 18 South, Range 31 East, NMPM, Eddy County, New Mexico, in such a manner as to permit the injection of produced water for disposal purposes into the **Delaware formation from approximately 5,307 feet to 5,490 feet through 2 3/8 inch plastic-lined tubing set in a packer located at approximately 5,207 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, 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.

**Step-rate data has been provided to the Division indicating a parting pressure of approximately 1605 psi with the interval from 5,307 feet to 5,490 feet perforated. Therefore, the injection well or system shall be equipped with a pressure limiting device which will limit the maximum wellhead pressure on the injection well to no more than 1555 psi.**

**Should it become necessary in the operator's opinion to perforate any interval in the wellbore higher than 5307, the operator shall notify the Division and provide notice to interested parties so that the proposal may be reviewed and modifications to the permit be made as deemed appropriate by the Division.**

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 Delaware 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.

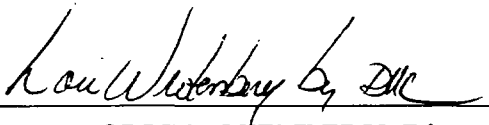
The operator shall immediately notify the supervisor of the Artesia district office of the Division of the failure of the tubing, casing, or packer in said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

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-115, in accordance with Rule Nos. 706 and 1120 of the Division Rules and Regulations.

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 well, provided however, the Division, upon written request by the operator, may grant an extension thereof for good cause shown.

Approved at Santa Fe, New Mexico, on this 31st day of January, 2000.

  
\_\_\_\_\_  
LORI WROTENBERY, Director

LW/MWA/kv

cc: Oil Conservation Division – Artesia  
U.S. Bureau of Land Management – Carlsbad