

New Mexico Energy, Minerals and Natural Resources Department

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Governor

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Oil Conservation Division



Administrative Order SWD-1120
April 30, 2008

APPLICATION OF DEVON ENERGY PRODUCTION COMPANY, LP FOR PRODUCED WATER DISPOSAL, LEA COUNTY, NEW MEXICO

ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

Under the provisions of Rule 701(B), Devon Energy Production Company, LP (OGRID 6137) made application to the New Mexico Oil Conservation Division for permission to utilize for produced water disposal its Tomcat 15 Federal Well No. 3 (API No. 30-025-35524) located 660 feet from the North line and 660 feet from the West line of Section 15, Township 23 South, Range 32 East, NMPM, Lea 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) No objections have been received within the waiting period prescribed by said rule; and
- (5) The operator is in compliance with the Division's Rule 40.

IT IS THEREFORE ORDERED THAT:

Devon Energy Production Company, LP is hereby authorized to utilize its Tomcat 15 Federal Well No. 3 (API No. 30-025-35524) located 660 feet from the North line and 660 feet from the West line of Section 15, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico, in such manner as to permit the injection of produced water



for disposal purposes into the Delaware Mountain Group formation through perforations from 5,786 feet to 5,942 feet and through plastic-lined tubing set with a packer located within 100 feet of the top of the injection interval.

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 injection into this well:

On the offsetting Tomcat 16 State Well No. 13 API No. 30-025-35411, the operator shall perforate and squeeze cement above the current cement top (approximately 6,520 feet) with a design to raise cement up and into the intermediate casing shoe at 4,835 feet. The resulting cement top shall be verified with a temperature survey or cement bond log and shall be at least above 5,600 feet. The operator shall submit a sundry of this work to the engineering bureau of the Division in Santa Fe with an original to Hobbs and receive written permission from the engineering bureau prior to commencing injection into the subject well.

The operator shall plug back the subject well with CIBP and cement to within 200 feet of the bottom of the injection interval (or as directed by the district office) and swab test the new injection perforations and supply a water analysis of the swabbed fluid and the static fluid level (or initial reservoir pressure) to the district office in Hobbs on a sundry form.

After installing injection tubing, the casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge or an approved leak detection device in order to determine leakage in the casing, tubing, or packer. The casing shall be pressure tested from the surface to the packer setting depth to assure casing integrity.

The wellhead injection pressure on the well shall be limited to **no more than 1,157 psi**. In addition, the injection well or system shall be equipped with a pressure limiting device in workable condition which shall, at all times, limit surface injection pressure to the maximum allowable pressure for this well.

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 injection 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 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 Hobbs 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 provide written notice of the date of commencement of injection to the Hobbs district office of the Division.

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 received by the Division prior to the termination date, may grant an extension thereof for good cause shown.


MARK E. FESMIRE, P.E.
Director

MEF/wvjj

cc: Oil Conservation Division – Hobbs
Bureau of Land Management – Carlsbad