

State of New Mexico
Energy, Minerals and Natural Resources Department

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Oil Conservation Division



Administrative Order SWD-1455
January 14, 2014

**ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION DIVISION**

Pursuant to the provisions of Division Rule 19.15.26.8B. NMAC, Devon Energy Production Company, LP (the "operator") seeks an administrative order to re-enter its Todd '27P' Federal Well No. 16 with a location of 330 feet from the South line and 330 feet from the East line, Unit letter P of Section 27, Township 23 South, Range 31 East, NMPM, Eddy County, New Mexico, for produced water disposal purposes.

THE DIVISION DIRECTOR FINDS THAT:

The application has been duly filed under the provisions of 19.15.26.8B. NMAC and satisfactory information has been provided that affected parties as defined in said rule have been notified. One objection was received within the prescribed waiting period, but was resolved by negotiation and did not require a major modification of the proposed well completion. The applicant has presented satisfactory evidence that all requirements prescribed in 19.15.26.8 NMAC have been met and the operator is in compliance with 19.15.5.9 NMAC.

The Todd '27P' Federal Well No. 16 has operated as a disposal well under Division Order SWD-676 issued on September 24, 1997. This order supersedes Division Order SWD-676 and Order SWD-676 is cancelled upon commencement of injection under this Division order.

IT IS THEREFORE ORDERED THAT:

The applicant, Devon Energy Production Company, LP (OGRID 6137), is hereby authorized to utilize its Todd '27P' Federal Well No. 16 (API 30-015-27106) with a location of 330 feet from the South line and 330 feet from the East line, Unit letter P of Section 27, Township 23 South, Range 31 East, NMPM, Eddy County, for disposal of oil field produced water (UIC Class II only) into the interval from the Bell Canyon and Cherry Canyon formations of the Delaware Mountain group through perforations from approximately **4750 feet** to approximately 5720 feet. Injection will occur through internally-coated, 2 3/8-inch tubing and a packer set within 100 feet of the permitted interval.

IT IS FURTHER ORDERED THAT:

The operator shall take all steps necessary to ensure that the disposed water enters only the approved disposal interval and is not permitted to escape to other formations or onto the surface. This includes the well construction proposed and described in the application except as

modified by the following requirements:

1. **Prior to commencing injection, the operator will squeeze cement and seal all existing perforations in the 5 ½-inch casing that are shallower than 4750 feet (as per the negotiated settlement with OXY USA, Inc.).**
2. **The operator will conduct a cement bond log (or equivalent method) of the well showing the cementing of the shallow perforations and the top of cement for the 5 ½-inch casing. The operator will provide copies to the Division's district II office and the Santa Fe Bureau office prior to commencing injection.**
3. **Prior to commencing injection, the cast-iron bridge plug (CIBP) and cement cap proposed at 5350 feet shall be installed within 200 hundred feet below the deepest proposed perforation at 5720 feet (approximately 5920 feet).**
4. **The operator is to conduct a temperature and radioactive tracer injection profile logs within a year from the date of commencing injection under this Division order. The operator will provide copies to the Division's district II office and the Santa Fe Bureau office. Thereafter, the operator shall complete temperature and radioactive tracer injection profile logs for the well at the end of every five (5) years of operation following the anniversary date of commencing injection.**

After installing 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 well shall pass an initial mechanical integrity test ("MIT") prior to initially commencing disposal and prior to resuming disposal each time the disposal packer is unseated. All MIT procedures and schedules shall follow the requirements in Division Rule 19.15.26.11A. NMAC. The Division Director retains the right to require at any time wireline verification of completion and packer setting depths in this well.

The wellhead injection pressure on the well shall be limited to **no more than 950 psig**. In addition, the disposal well or system shall be equipped with a pressure limiting device in workable condition which shall, at all times, limit surface tubing pressure to the maximum allowable pressure for this well.

The Director of the Division may authorize an increase in tubing pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the disposed fluid from the target formation. Such proper showing shall be demonstrated by sufficient evidence including but not limited to an acceptable Step-Rate Test.

The operator shall notify the supervisor of the Division's district II office of the date and time of the installation of disposal equipment and of any MIT so that the same may be inspected and witnessed. The operator shall provide written notice of the date of commencement of

disposal to the Division's district office. The operator shall submit monthly reports of the disposal operations on Division Form C-115, in accordance with Division Rules 19.15.26.13 and 19.15.7.24 NMAC.

Without limitation on the duties of the operator as provided in Division Rules 19.15.29 and 19.15.30 NMAC, or otherwise, the operator shall immediately notify the Division's district II office of any failure of the tubing, casing or packer in the well, or of any leakage or release of water, oil or gas from around any produced or plugged and abandoned well in the area, and shall take such measures as may be timely and necessary to correct such failure or leakage.


The injection authority granted under this order is not transferable except upon division approval. The Division may require the operator to demonstrate mechanical integrity of any injection well that will be transferred prior to approving transfer of authority to inject.

The Division may revoke this injection permit after notice and hearing if the operator is in violation of 19.15.5.9 NMAC.

The disposal authority granted herein shall terminate two (2) years after the effective date of this order if the operator has not commenced injection operations into the subject well. One year after the last date of reported disposal into this well, the Division shall consider the well abandoned, and the authority to dispose will terminate *ipso facto*. The Division, upon written request mailed by the operator prior to the termination date, may grant an extension thereof for good cause.

Compliance with this order does not relieve the operator of the obligation to comply with other applicable federal, state or local laws or rules, or to exercise due care for the protection of fresh water, public health and safety and the environment.

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 or protectable waters or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, terminate the disposal authority granted herein.


JAMI BAILEY
Director

JB/prg

cc: Oil Conservation Division – Artesia District Office
Bureau of Land Management – Carlsbad Office