

State of New Mexico
Energy, Minerals and Natural Resources Department

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Deputy Cabinet Secretary

Jami Bailey, Division Director
Oil Conservation Division



Administrative Order SWD-1499
September 22, 2014

**ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION DIVISION**

Pursuant to the provisions of Division Rule 19.15.26.8B. NMAC, Mack Energy Corporation (the "operator") seeks an administrative order to utilize its proposed Ghost SWD Well No. 1 with a location of 175 feet from the North line and 2000 feet from the East line, Unit letter B of Section 15, Township 23 South, Range 27 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 Division Rule 19.15.26.8B. NMAC and satisfactory information has been provided that affected parties as defined in said rule have been notified and no objections have been received within the prescribed waiting period. The applicant has presented satisfactory evidence that all requirements prescribed in Rule 19.15.26.8 NMAC have been met and the operator is in compliance with Rule 19.15.5.9 NMAC.

IT IS THEREFORE ORDERED THAT:

The applicant, Mack Energy Corporation (OGRID 13837), is hereby authorized to utilize its Ghost SWD Well No. 1 (API 30-015-42463) with a location of 175 feet from the North line and 2000 feet from the East line, Unit letter B of Section 15, Township 23 South, Range 27 East, NMPM, Eddy County, for disposal of oil field produced water (UIC Class II only) through perforations in the Bell Canyon and Cherry Canyon formations of the Delaware Mountain group from 2190 feet to 4100 feet. Injection will occur through internally-coated, 2 7/8-inch or smaller tubing and a packer set within 100 feet of the top perforation.

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.

The operator shall either complete a mudlog (or equivalent) for entire approved interval or conduct a swab test of the new perforations for hydrocarbon potential and obtain a water sample for analysis of hydrocarbon content. The Division's District II office shall be noticed prior to this test and given the opportunity to witness the swab test. The operator shall supply the Division's District II office and Santa Fe Bureau office with any results (mudlog or water

sample) prior to commencing injection.

The operator shall conduct an injection survey (tracer/temperature or equivalent) of the injection interval within two (2) years after commencing disposal into this well and prior to any increase of the approved maximum surface injection pressure in this Order. The operator will supply both the Division's District II office and Santa Fe Bureau office with a copy of the survey log.

If the operator receives approval for an increase in the maximum surface injection pressure, the operator shall conduct a second injection survey (tracer/temperature or equivalent) of the injection interval within one year (1) year of commencing disposal with the increased surface injection pressure. The operator will supply both the Division's District II office and Santa Fe Bureau office with a copy of the survey log.

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 438 psi**. 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 Rule 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.



JAMTBAILEY
Director

JB/prg

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