

State of New Mexico  
Energy, Minerals and Natural Resources Department

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Susana Martinez  
Governor

Tony Delfin  
Acting Cabinet Secretary

David R. Catanach, Division Director  
Oil Conservation Division



Administrative Order SWD-1645  
August 22, 2016

**ADMINISTRATIVE ORDER  
OF THE OIL CONSERVATION DIVISION**

Pursuant to the provisions of Division Rule 19.15.26.8(B) NMAC, Delaware Energy, LLC (the "operator") seeks an administrative order to re-enter and recompleate the Herren Federal Gas Com. Well No. 1 with a location 1980 feet from the South line and 1980 feet from the West line, Unit letter K of Section 7, Township 24 South, Range 27 East, NMPM, Eddy County, New Mexico, for the purpose of commercial disposal of produced water.

**THE DIVISION DIRECTOR FINDS THAT:**

The application has been duly filed under the provisions of Division Rule 19.15.26.8(B) NMAC and satisfactory information has been provided that affected parties as defined in said rule have been notified and no objection was received within the required 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, Delaware Energy, LLC (OGRID 371195) is hereby authorized to utilize its Herren Federal Gas Com. Well No. 1 (API 30-015-21033) with a location 1980 feet from the South line and 1980 feet from the West line, Unit letter K of Section 7, Township 24 South, Range 27 East, NMPM, Eddy County, New Mexico, for commercial disposal of oil field produced water (UIC Class II only) through a perforated interval within the lower Bell Canyon and Cherry Canyon formations from 2895 feet to 3600 feet. Injection shall occur through 4½-inch or smaller, internally-coated tubing and a packer set no greater than 100 feet above 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 (including the amended content submitted by the applicant dated July 15, 2016) and, if necessary, as determined by either the District Supervisor or the Bureau of Land Management

*The operator shall complete the remedial casing (the 7-inch liner from 2842 feet to surface) and cement work as proposed in the application. If the cement does not circulated to surface, then the operator shall run a radial cement bond log (or equivalent log) showing the depth of the top*

*of cement for the 7-inch casing. The operator shall supply both the Division's District II office and the Bureau of Land Management with a copy of the log.*

*The operator shall install a cast-iron bridge plug (CIBP) with cement cap at a depth of 3800 feet below surface prior to commencing injection.*

*Within two years after commencing disposal, the operator shall conduct an injection survey, consisting of a temperature log or equivalent, over the entire injection interval using representative disposal rates. Copies of the survey results shall be provided to the Division's District II office, Santa Fe Bureau office and the Bureau of Land Management.*

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 19.15.26.11(A) 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 579 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. At the discretion of the supervisor of the Division's District II office, the operator shall install and maintain a chart recorder showing casing and tubing pressures during disposal operations.

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 formations. 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 II 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.

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 order 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.



DAVID R. CATANACH  
Director

DRC/prg

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