

State of New Mexico
Energy, Minerals and Natural Resources Department

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David R. Catanach, Division Director
Oil Conservation Division



Administrative Order SWD-1593-A
October 20, 2017

**ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION DIVISION**

Pursuant to the provisions of Division Rule 19.15.26.8(B) NMAC, OWL SWD Operating, LLC (the "operator") seeks an administrative order for its proposed McCloy SWD Well No. 2 with a location 1595 feet from the South line and 369 feet from the West line, Unit L of Section 15, Township 24 South, Range 32 East, NMPM, Lea County, New Mexico, for commercial disposal of produced water.

This order amends the disposal interval approved under Administrative Order SWD-1593 (dated November 5, 2015) by including the Silurian-age rocks in the interval. This expansion of the disposal interval is classified as a major modification and required re-notification of the affected parties identified in the original application. This order supersedes Administrative Order SWD-1593 which is rescinded.

THE DIVISION DIRECTOR FINDS THAT:

The amended 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 objections have been received within the prescribed waiting period. The applicant has presented satisfactory evidence that all requirements prescribed in Division Rule 19.15.26.8 NMAC have been met and the operator is in compliance with Division Rule 19.15.5.9 NMAC.

IT IS THEREFORE ORDERED THAT:

OWL SWD Operating, LLC (OGRID 308399), is hereby authorized to utilize its McCloy SWD Well No. 2 (API 30-025-42947) with a location of 1595 feet from the South line and 369 feet from the West line, Unit L of Section 15, Township 24 South, Range 32 East, NMPM, Lea County, for disposal of oil field produced water (UIC Class II only) into the Devonian and Silurian formations through open-hole interval from 16500 feet to 18750 feet. Injection will occur through internally-coated, 5½-inch or smaller tubing and a packer set within 100 feet of the top of the open-hole interval.

Prior to commencing disposal, the operator shall submit mudlog and geophysical logs information, to the Division's District geologist and Santa Fe Bureau Engineering office, showing evidence agreeable that only the permitted formations are open for disposal including a summary of depths (picks) for contacts of the formations which the Division shall use to amend this order for a final description of the depth for the disposal interval.

With the modified injection interval, this permit does not authorize disposal into the Ellenburger formation (Ordovician) or lost circulation intervals directly on top and obviously connected to this formation and limits any penetration of the open-hole interval into the Montoya formation (or upper Ordovician equivalent unit) to less than 100 feet.

The operator shall supply the Division with a copy of a mudlog over the permitted disposal interval and an estimated insitu water salinity based on open-hole logs. If significant hydrocarbon shows occur while drilling, the operator shall notify the Division's District I office and the operator shall be required to receive written permission prior to commencing disposal.

The operator shall run a CBL (or equivalent) across the 7-³/₄ inch liner through the 10-³/₄ casing to surface to demonstrate a good cement bond between the two casings and good cement across the 10-³/₄ casing.

Within one year after commencing disposal, the operator shall submit to the Division copies of an injection survey for this well consisting of a temperature log, or equivalent, conducted under representative disposal rates.

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.

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 3300 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 I 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 I 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.



DAVID R. CATANACH
Director

DRC/prg

cc: Hobbs District Office
Bureau of Land Management – Carlsbad Field Office
Well File 30-025-42947