

State of New Mexico  
Energy, Minerals and Natural Resources Department

---

**Michelle Lujan Grisham**  
Governor

**Sarah Cottrell Propst**  
Cabinet Secretary

**Todd E. Leahy, JD, PhD**  
Deputy Secretary

**Adrienne Sandoval**, Director  
Oil Conservation Division



Administrative Order SWD-2032  
November 9, 2020

**ADMINISTRATIVE ORDER  
OF THE OIL CONSERVATION DIVISION**

Pursuant to the provisions of Oil Conservation Division (“OCD”) Rule 19.15.26.8(B) NMAC, OWL SWD Operating, LLC (“Operator”) seeks an administrative order for it’s The Office SWD No. 1 (“Well”) with a location of 150 feet from the South line and 410 feet from the East line, Unit letter P of Section 4, Township 25 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 OCD Rule 19.15.26.8(B) NMAC and satisfactory information has been provided that affected parties have been notified. No objections were received within the prescribed waiting period. The applicant has presented satisfactory evidence that all requirements prescribed in OCD Rule 19.15.26.8 NMAC have been met and the operator is in compliance with OCD Rule 19.15.5.9 NMAC.

**Application for Disposal in Devonian and Silurian Formations:** Due to the potential for the projected injection volume of the proposed well to impact an area greater than the one-half mile radius applied in OCD Form C-108 and OCD rule, the applicant has provided the following supplementary information:

1. Notification following OCD Rule 19.15.26.8(B) NMAC for a radius of one mile from the surface location of the proposed well;
2. An expanded Area of Review for wells penetrating the disposal interval for a radius of one mile from the surface location of the proposed well; and
3. A statement by a qualified person assessing the potential of induced-seismic events associated with the disposal activities for the predicted service life of the proposed well.

**IT IS THEREFORE ORDERED THAT:**

The Operator is hereby authorized to utilize its Well for disposal of oil field produced water (UIC Class II only) through open-hole completion into an interval consisting of the Devonian and Silurian formations from approximately 13,500 feet to approximately 14,600 feet. Injection will occur through internally coated, 5.5-inch tubing with a packer set within 100 feet of the top of the disposal interval. This permit does not allow disposal into:

1. The Woodford Shale and formations above the lower contact of the Woodford Shale;
2. Formations below the Silurian formations including the Montoya formation and the Simpson formation (Middle Ordovician); and
3. Any lost circulation intervals directly on top and obviously connected to these formations.

*Prior to commencing disposal, the operator shall submit mudlog and geophysical logs information, to the OCD's District geologist and Santa Fe Engineering Bureau, showing evidence agreeable that only the permitted formation is open for disposal including a summary of depths (picks) for contacts of the formations which the OCD shall use to amend this order for a final description of the depth for the injection interval. If significant hydrocarbon shows occur while drilling, the operator shall notify the OCD's District office and the operator shall be required to receive written permission prior to commencing disposal.*

*The operator shall set surface casing 50 feet below the top of the Salado in order to seal off protectable water.*

*Injection shall occur only through 5.5 inch internally coated tubing; the operator shall provide a detailed description of all casing and tubing diameters, lengths, and setting depths, which shall be submitted on OCD form C-103*

*The operator shall circulate to surface the cement for the 9<sup>5</sup>/<sub>8</sub>-inch production casing.*

*If cement does not circulate on any casing string, the operator shall run a cement bond log ("CBL") or other log to determine top of cement and shall notify the OCD's District II Office with the top of cement on the emergency phone number prior to continuing with any further cement activity with the proposed well. If cement did not tie back into the next higher casing shoe, the operator shall perform remedial cement job to bring cement, at a minimum, 200 feet above the next higher casing shoe.*

*Prior to commencing disposal, the operator shall obtain a bottom-hole pressure measurement representative of the open-hole completion. This information shall be provided with the written notice of the date of commencement of disposal.*

**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 completion and construction of the well as described in the application and, if necessary, as modified by the District Supervisor or 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 OCD Rule 19.15.26.11(A) NMAC. The OCD Director retains the right to require at any time wireline verification of completion and packer setting depths in this well.

Without limitation on the duties of the operator as provided in OCD Rules 19.15.29 and 19.15.30 NMAC, or otherwise, the operator shall immediately notify the OCD’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.

If the disposal well fails a MIT or if there is evidence that the mechanical integrity of said well is impacting correlative rights, the public health, any underground sources of fresh water, or the environment, the OCD Director shall require the well to be shut-in within 24 hours of discovery and the operator shall redirect all disposal waters to another facility. The operator shall take the necessary actions to address the impacts resulting from the mechanical integrity issues in accordance with OCD Rule 19.15.26.10 NMAC, and the well shall be tested pursuant to Rule 19.15.26.11 NMAC prior to returning to injection.

The wellhead injection pressure on the well shall be limited to **no more than 2,700 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 OCD 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 OCD’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 OCD’s District II office. The operator shall submit monthly reports of the disposal operations that includes number of days of operation, injection volume, and injection pressure on OCD Form C-115, in accordance with OCD Rules 19.15.26.13 and 19.15.7.24 NMAC.

The injection authority granted under this order is not transferable except upon OCD approval. The OCD 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 OCD 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 one (1) year 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 OCD shall consider the well abandoned, and the authority to dispose will terminate *ipso facto*. The OCD, 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 OCD 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 OCD may, after notice and hearing, terminate the disposal authority granted herein.



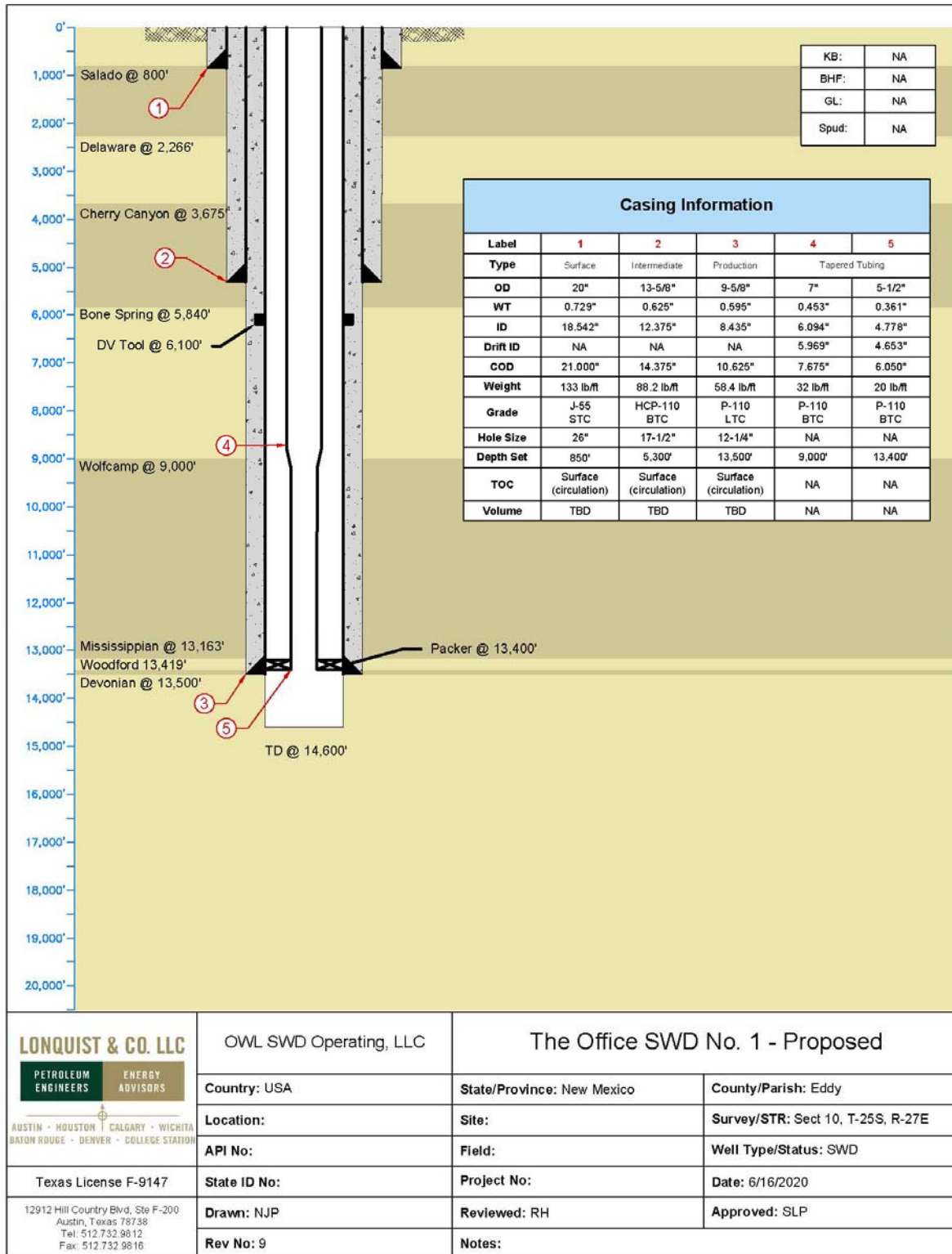
---

ADRIENNE SANDOVAL  
Director

AS/jag

cc: Oil Conservation Division – Artesia District Office  
Admin. Appl. No. pMAM1909349439  
Bureau of Land Management – Carlsbad Field Office

Attachment: C-108 well completion diagram



**LONQUIST & CO. LLC**

**PETROLEUM ENGINEERS ENERGY ADVISORS**

AUSTIN • HOUSTON • CALGARY • WICHITA  
 BATON ROUGE • DENVER • COLLEGE STATION

Texas License F-9147

12912 Hill Country Blvd, Ste F-200  
 Austin, Texas 78738  
 Tel: 512.732.9812  
 Fax: 512.732.9816

OWL SWD Operating, LLC

Country: USA

Location:

API No:

State ID No:

Drawn: NJP

Rev No: 9

The Office SWD No. 1 - Proposed

State/Province: New Mexico

Site:

Field:

Project No:

Reviewed: RH

Notes:

County/Parish: Eddy

Survey/STR: Sect 10, T-25S, R-27E

Well Type/Status: SWD

Date: 6/16/2020

Approved: SLP