NEVADA DIVISION OF ENVIRONMENTAL PROTECTION
Underground Injection Control

FACT SHEET

(pursuant to NAC 445A.874)

Permit Number: UNEV2009200
Permittee Name: Makoil, Inc.
Project Name: Munson Ranch Oilfield
Permit Type: Underground Injection Control Individual Permit
Injection Well Type: UIC Class II
Permitee Address: 7700 Irvine Center Dr., Suite 420, Irvine, CA 92618
Proposed Action: Renewal of Existing Permit
Associated Permits: Previously UNEV89058 & UNEV96203
Reporting Frequency: Quarterly

Description of Discharge

Approved injection wells
Munson Ranch 11-23 is a permitted injection well for the purposes of water disposal.
Munson Ranch 24-3 is a permitted injection well for the purposes of water disposal.

Location:
Munson Ranch 11-23: S 11, T9N, R56E. 38° 39' 13", -115° 38' 39"
Munson Ranch 24-3: S 24, T9N, R56E. 38° 38' 37", -115° 37' 23"

Characteristics:
All injectate is fluid produced in conjunction with conventional oil production. The injectate fluid has a TDS concentration of approximately 750-1,000 ppm. Demulsifier OT-8535, parafin solvent P-8125X, and reverse emulsion breaker R-5010 are chemicals that have been approved for use in the production process. Additional chemical treatment will require approval by the Division prior to use.

Synopsis

The applicant has requested reissuance of UIC permits UNEV96201 and UNEV96202 into a combined permit numbered UNEV2009200. These permits were originally issued in the late 1980s by US EPA as NVS000000004 and NVS000000005. UNEV96201 authorized injection into well 20X and UNEV96202 authorized injection into well 13, Trap Springs Field, Railroad Valley, Nevada. The only wells known to exist within the area of review are associated with oil production. Injectate fluids are produced in conjunction with conventional oil production activities from other wells in the area. For the last five years, the average injection rate: 11-23 = 1,500-1,800 barrels (1 barrel = 42 gallons) per day, and 24-3 = 400-500 bpd. Average injection pressures for last five years: 11-23 = 550-900 psi, and 24-3 = 300 – 375 psi. The maximum pressure allowed at the wellhead is: 11-23 = 1518 psi, and 24-3 = 1,300 psi. The existing wells have undergone testing and have demonstrated mechanical integrity.

Timeline

2025: Permit renewal process
2015: Permit renewed
2013: Minor modification – approval of ~245,000 gallons of water from well stimulation procedure at Portuguese Mt. 14A-12 to 11-23.
2009: Permit transferred to UNEV2009200
1995: Permit renewed
1990: Injection well No. 11-23 approved.
1989: Original permit issued; injection well No. 24-3 was approved.

Permit Conditions Governing Injection Operations

The injection zone for Munson Ranch Well 11-23 is within the Paleozoic formation at depths between 4,608 and 4,758 feet, accessed through 0.5-inch perforations in 5.5-inch casing. The maximum injection pressure at the wellhead shall not exceed 1,518 psig. A Baker Model A-2 Lock Set Packer, or equivalent, is required to be set and maintained at or below the Paleozoic rock formation contact between the 5 ½-inch intermediate casing and the 2 7/8-inch tubing, ensuring that fluids are contained and prevented from migrating into or between underground sources of drinking water. Injection in Munson Ranch Well 24-3 is limited to the Oligocene Ignimbrites of the Garret Ranch Volcanics, with perforations from 4,340–4,385 feet and 4,680–4,730 feet. The maximum injection pressure at the wellhead shall not exceed 1,300 psig. A Baker Model A-2 Lock Set Packer, or equivalent, shall be set and maintained at 4,320 feet to protect aquifers. Well 24-3 has an aquifer exemption pursuant to NAC 445A.855.2(b).

Procedures for Public Comment

Pursuant to NAC 445A.890.5 through NAC 445A.877, public notice of Underground Injection Control permit applications and proposed drafts is being posted on the NDEP website, and mailed to any interested persons on our mailing list, to (1) solicit written comments or objections to determinations of the Director regarding the application or permit and (2) provide the opportunity for a public hearing, if the Director determines that there is a significant level of interest from the applicant, any affected state, any affected interstate agency, the regional administrator, or any interested agency, person, or group of persons. A hearing request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted. Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determines to be appropriate. All public hearings must be conducted to accordance with NAC 445A.238 and the final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605. Any person wishing to submit comments or request a hearing must do so by email/mail, which must be sent/postmarked or hand delivered within thirty (30) days to:

Department of Conservation & Natural Resources
Nevada Division of Environmental Protection
Bureau of Water Pollution Control | Permits Branch
Attn: Underground Injection Control Permit Writer
901 S. Stewart Street, Suite 4001
Carson City, NV 89701

Proposed Determination
The Division has made the tentative decision to renew the existing permit.

Rationale for Permit Requirements
Permit requirements will verify that the quality of water injected remains constant and confirm that injection of water does not adversely affect the existing hydrologic regime.

Special Conditions and Monitoring Requirements
For special conditions, see Part I.A of the permit. For monitoring requirements, see Attachment 1 of the permit.

Prepared by: Bret Allen
Revision Date: 12/18/2025