



NEVADA DIVISION OF
**ENVIRONMENTAL
PROTECTION**

STATE OF NEVADA
Department of Conservation & Natural Resources

Joe Lombardo, *Governor*
James A. Settelmeyer, *Director*
Jennifer L. Carr, *Administrator*

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION
Underground Injection Control

FACT SHEET

(pursuant to NAC 445A.874)

Permit Number: UNEV89006
Permittee Name: Grant Canyon Oil and Gas, LLC
Project Name: Grant Canyon Oil Field
Permit Type: Underground Injection Control Individual Permit
Injection Well Type: UIC Class II
Permittee Address: 5299 DTC BLVD, Suite 840, Greenwood Village, CO 80111
Proposed Action: Renewal of Existing Permit
Reporting Frequency: Quarterly

Description of Discharge

Approved injection wells and location

Grant Canyon #1: is permitted water injection for the purposes water disposal.

Location: Grant Canyon #1 is in Section 21, T7N, R57E, Nye County,

Grant Canyon # 3: is permitted for ambient injections for the purposes of enhanced recovery.

Location: Injection well Grant Canyon #3 located in Section 16, T7N, R57E, Nye County Nevada.

Characteristics:

Grant Canyon well #1 receives injectate fluids produced in conjunction with conventional oil production activities from other wells in the area. The average injection rate is approximately 1000bbls/day (1 barrel = 42 gals) and a maximum rate of 2000 bbls/day. The maximum pressure allowed at the wellhead will be 1,300 psig. The injectate fluid will have a TDS concentration of approximately 5000 ppm and will contain hydrocarbons and chemicals from the production process.

Grant Canyon well #3 will receive compressed ambient air to replace the approximately twenty million barrels of oil which has been removed from the reservoir during twenty-two years of production. This air injection is intended to provide reservoir pressures to allow the Grant Canyon Unit production wells to flow freely. The average injection rate is approximately 800 cubic feet per minute (cfm) and a maximum rate of 1000 cfm. The maximum pressure allowed at the wellhead will be 1,600 psig and the maximum injection rate shall not exceed 1200 cfm.

Synopsis

2025 Renewal: No major changes were made to the permit. The Maximum daily injection rate was increased to 20,000 barrels per day (bpd). The permittee requested that Grant Canyon #5, a plugged and abandoned well be unplugged and converted to an injection well but did not provide the Division with enough information for approval. The permittee also requested for injection wells #1 and #3 to be approved for air and water injections. The division was not provided with enough information to approve the request.

2014 Renewal: No major changes to permit, Permittee requested to add water disposal for well #3, but BWPC did not have enough well information and testing completed to authorize water disposal at this



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time. When Permittee wants to convert, information and testing can be completed at that time. Maximum daily injection rate was changed from 20,000 bpd to 5,000 bpd to be in line with their current injection rates of 2,500 - 3,500 bpd.

UNEV89006 was originally issued in 1989 to permit injection into Grant Canyon #1. In 2007, the applicant requested permission to modify UNEV89006 to include injection of ambient air for the enhanced recovery of oil in conventional oil production into Grant Canyon well #3. UNEV89006T07 was issued to add ambient air injection into Grant Canyon #3 and will expire upon subsequent renewal of UNEV89006. The only wells known to exist within the area of review are associated with oil production.

Time Line

Dec 1989: Original Permit Issued
Dec 1994: Renewal Permit Issued (well #5 removed from Permit)
Feb 1999: Renewal / Minor Mod Permit Issued
May 2006: Permit Transferred from Makoil to Grant Canyon Oil and Gas LLC
Feb 2007: Major Mod Application Rec'd
Mar 2007: Temporary Permit Issued (added well #3 to permit)
Jan 2008: Renewal Application Rec'd
Apr 2008: Permit Renewed
Feb 2013: Renewal Application Rec'd
Nov 2014: Permit Renewed (changed maximum daily rate to 4,000 bpd, old amount too high)
2007 December: Testing of Blackburn well #3 for air injection

Receiving Water

The injection zone for the Blackburn well #12 is within the Devonian Nevada Formation at or below 8,134 feet. This zone has been characterized by water analysis and by other injection wells in the area to be high in total dissolved solids and to contain hydrocarbons. A quarter-mile zone around has aquifer exemption pursuant to NAC 445A.855 until such time as the well is removed from injection status and/or plugged. Injection zones for Blackburn #3 are the Indian Wells Formation, Chainman Formation, and Devonian Nevada Formation. TDS values in #3 have ranged from 1,800-2,500 in certain zones, and up to 3,600 ppm blended (BLM file). Blackburn #14 injection zone is the Devonian Nevada Formation; perforations in this well exist in the Chainman Formation.

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:



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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: Lisa Aleman, 8/11/2025