

**NEVADA DIVISION OF ENVIRONMENTAL PROTECTION  
UNDERGROUND INJECTION CONTROL PROGRAM**

**FACT SHEET**

(Pursuant to NAC 445A.874)

**Applicant:** Western General, Inc. (Austin Wyatt, Inc.)  
**Permit Number:** UNEV90017  
**No of permitted wells:** 4  
**Date permit drafted:** March 3, 2010  
**Reason:** Renewal

A. Description of Discharge

Location: Two injection wells located in T.8N., R.57E., Sections 2 and 10; and two proposed injection wells to be located within Sections 1, 2, 3, and 10, Railroad Valley, Nye County, Nevada.

Characteristics: All injectate is fluid and gas produced in conjunction with conventional oil production. The fluid will have a TDS concentration of approximately 3020 mg/l. Elevated levels of chloride (2400 mg/l), sodium (950 mg/l), bicarbonate (145 mg/l) and total petroleum hydrocarbons (21 mg/l) are present. If chemical treatment for scale and corrosion is needed, such chemical treatment will require approval by the Division prior to use.

B. Synopsis

The applicant has requested renewal of UIC permit UNEV90017 to inject into Kate Springs well #1-B, and Kate Springs Wheel of Fortune well #1-10 (currently not being used). The permittee is also authorized to inject into two other proposed injection wells under the existing permit (permittee has requested to leave the proposed wells on the permit). The project area is located in the Kate Springs oil field. The only wells known to exist within the area of review are associated with oil production. Injectate water and gas are fluids produced in conjunction with conventional oil production activities from other wells in the area. The maximum injection rate will be 10,000 barrels water (1 barrel = 42 gals.) per day. The maximum pressure allowed at the well by NAC 445A.911 is approximately 1946 psig. Both wells will require a mechanical integrity test in 2010 in order to demonstrate there are no leaks where fluid might enter an underground source of drinking water while the well is idle.

C. Receiving Water Characteristics

The injection zone will be within the Paleozoic rock formation at a depth below 4550 feet. This zone has been characterized by other wells in the area to be high in total dissolved solids and to contain hydrocarbons. The applicant will be required to collect and analyze samples prior to use of non-operating wells in order to demonstrate that the proposed injection will not degrade the quality of the receiving zone.

D. Procedures for Public Comment

The Notice of the Division's intent to reissue a permit authorizing the facility to discharge to the ground water of the State of Nevada subject to the conditions contained within the permit, is being sent to the *Ely Daily Times* for publication. Anyone wishing to comment on the proposed permit can do so in writing for a period of 30 days following the date of the public notice.

A public hearing on the proposed determination can be requested by the applicant, any affected state, any affected interstate agency, the regional administrator or any interested agency, person or group of persons.

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 will be conducted in accordance with NAC 445A.238 through 445A.239.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445.274.

E. Proposed Determination

The Division has made the tentative determination to reissue the proposed permit.

F. Proposed Effluent Limitations and Special Conditions

See Part I.A of the permit.

G. Rationale for Permit Requirements

Verification that the quality of fluid discharged to the injection well remains constant.  
Confirmation that fluids disposal does not adversely affect the existing hydrologic regime.

Prepared by: Russ Land

Date: March, 2010