

Permit Approval Date: 11/17/2007 Initials AB
Permit Expiration Date: 12/31/2016 Initials AB

Permit No. 63W229001

APPLICATION FOR PERMIT TO CONSTRUCT, MODIFY OR MAINTAIN AN
INJECTION WELL



IDAHO DEPARTMENT OF WATER RESOURCES
322 East Front St., PO Box 83720, Boise, ID 83720-0098
Under the Provisions of Title 42, Chapter 39 of the Idaho Code

Note To Applicant: Fill in ALL Information Requested. Incomplete Applications will be Returned.

I. GENERAL INFORMATION

A. Application Type: (check appropriate box)

- ☒ New Injection Well Operating Permit (A Drilling Permit is also required prior to construction)
☐ Permit to Modify an Existing Injection Well (see Section H.)
☐ Renew Operating Permit of an Existing Injection Well

B. Name and Address of Legal Contact:

☐ Legal Owner ☒ Operator or Representative ☐ Contractor *(See note)

Contact Name LINDA KLINGER FOR VELMA MORRISON

Business Name THE FALCON BUILDING

Mailing Address 827 E. PARK BOULEVARD

City BOISE

State ID

Zip Code 83706

Phone No. 1 345-5225

Phone No. 2 _____

*Contractor Note: Give Future Owner Name & Contact Information (If known) _____

C. Well Location: (Give location address of well if different from above, otherwise write "same")

Facility Name THE FALCON BUILDING

Address 815 PARK BOULEVARD

City BOISE

State ID

Zip Code 83706

County ADA

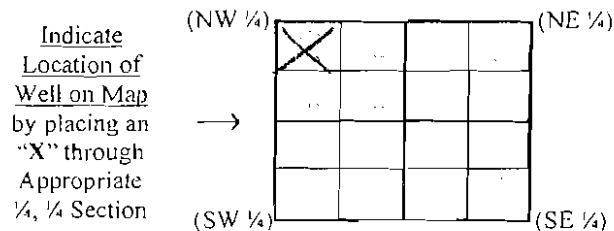
Facility Phone No. _____

D. Well Location Legal Description:

(*For New Injection Well Permits, You must supply this information* Include map)

Township 3N Range 2E Section 14 ($\frac{1}{4}$, $\frac{1}{4}$, $\frac{1}{4}$) NW ($\frac{1}{4}$, $\frac{1}{4}$) NW ($\frac{1}{4}$ Section)

County _____



Section Map ($\frac{1}{4}$, $\frac{1}{4}$ Sections)

Refer to Your Property Tax Statements for Correct Legal Description Information

E. Is the Well/Facility Located on Indian Lands? ☐ Yes ☒ No

F. Injection Well Classification: SA7 (obtain proper code from list on instruction sheet)

• mitigation plan
• copy for 63-32619
11/6/07

II. TECHNICAL DATA

G. Well Construction Information:

☐ As Built (attach well log, if available)

IDWR Drilling Permit No. _____ Well Tag No. _____

☒ Expected Construction

Drill Bore: Diameter 6 (in) Depth 40 (ft)
Surface Casing: Diameter 6 (in) Depth _____ (ft)
Height above Ground Surface 1.5 (ft) Casing Type STEEL
Perforation: From 30 (ft) To 40 (ft)
Surface Seal: Depth 22 (ft) Seal Type CEMENT GROUT

Secondary Casing (if applicable):

Diameter _____ (in) Initial Depth _____ (ft) Terminal Depth _____ (ft)
Casing Type _____ Seal Type _____ Packer Depth _____ (ft)

Construction Date (indicate Actual, Approximate or Anticipated): JAN '07

Driller's Name/Address: _____

H. Describe Intended Modification and Purpose (for Permit to Modify only):

I. Site Description:

Depth to Groundwater 8 (ft) ☐ Estimate ☒ Measured Date Measured SEPT, '06
Distance to Nearest Domestic Well 7300 (ft) Direction ANY

J. Description of Well Operation:

Frequency of Injection: ☒ Continuous ☐ Seasonal ☐ Intermittent
Maximum Average Weekly Rate 175 ☐ cfs ☒ gpm
Maximum Injection Capacity 175 ☐ cfs ☒ gpm
Injection Pressure (for pressurized systems, at well head) 80 (psi)

Is the injection well part of an approved contamination remediation system? ☐ Yes ☒ No

If yes, please attach a copy of the signed regulatory approval for the remediation action, description of the remediation system, and intended use of the injection well.

K. Description of Waste Stream:

Activity Type: ☐ Agricultural/Farming ☐ Agricultural Processing ☐ Mining
☒ Building Heating/Cooling ☐ Industrial/Manufacturing
☐ Automotive Repair ☐ Aquifer Storage/Recharge ☐ Other

Describe HYDRONIC HEAT EXCHANGER CLOSED LOOP SYSTEM

L. Are hazardous wastes as defined in IDAPA 58.01.05 generated or stored on the facility?

☐ Yes ☒ No (Special Note: Injection of hazardous wastes is prohibited.)

- M. List constituents and concentrations in waste stream (list agricultural, automotive or industrial chemicals, tracers, anti-bacterial, anti-corrosive, anti-freeze, or other treatment agents):

NONE

- N. If the injection well is used for agricultural fluid disposal, complete the following:

Method of irrigation: ☐ Gravity ☐ Sprinkler
Water Source: ☐ Groundwater ☐ Surface water or canal system

N/A
Are pesticides used? ☐ Yes ☐ No Describe _____

Are herbicides used? ☐ Yes ☐ No Describe _____

- O. Description of Land Use: (For all, except Class 5A7 Closed-Loop Heat Pump Return)

Drainage area discharging to injection well N/A (Acres)

Describe land uses occurring in drainage area _____

- P. Active Waste Disposal Activities within Injection Well Drainage Area: (For all, except Class 5A7 Closed-Loop Heat Pump Return)

☐ Wastewater Land Application Operations

Description N/A

☐ CAFO/Feed Lot Operations

Description _____

☐ Dairy Operations

Description _____

☐ Other(s)

Description _____

- Q. Treatment Methods Prior to Injection: (For all, except Class 5A7 Closed-Loop Heat Pump Return wells)

☐ Retention Pond Length _____ (ft) Width _____ (ft) Depth _____ (ft)

Description N/A

☐ Well Screen

Description _____

☐ Filtration

Description _____

☐ Chemical Treatment

Description _____

☐ Other

Description _____

R. Alternative Methods to Injection Well Use:

Describe alternatives to the use of an injection well for waste disposal _____

SURFACE DISCHARGE

Why were the above alternative methods rejected? AQUIFER RECHARGE
IS PREFERRED

S. For all, except Class 5A7 Closed-Loop Heat Pump Return wells, attach a topographic map or aerial photo showing the area within a one-mile radius to show the following:

- a. Location of the described injection well, domestic supply wells, and any other wells
- b. Outline of area draining to the injection well
- c. Property boundaries of injection well owner N/A

III. Applicant Signature

Be it known that the undersigned hereby makes Application for Permit to Construct or Maintain an Injection Well. The above information is true and correct to the best of my knowledge.

10-31-06
Date

Carl Geiger
Signature

ENGINEER
Title

CARL GEIGER
Print Name

For Department Use Only

I have examined Application No. 63W229001 and said application is hereby APPROVED subject to the attached conditions.

Witnessed by my hand this 17th day of January, 20 07

Charles S. Salloway
Official, Idaho Department of Water Resources

Chief, Resource Protection Bureau
Title

Received by AMB

Date 11/21/2006

Reviewed By AR

Fees \$100.00

Received by AMB

Receipt No. C082678

IDAHO DEPARTMENT OF WATER RESOURCES

ATTACHMENT I

STANDARD CONDITIONS AND REQUIREMENTS PERTAINING TO CONSTRUCTING, MODIFYING, OPERATING AND/OR ABANDONING AN INJECTION WELL

A. CONSTRUCTION REQUIREMENTS

1. The injection well shall be constructed by an Idaho licensed driller and shall conform with the current Minimum Well Construction Standards of the State and the Conditions of this Permit, except that a licensed driller is not required for the construction of a mine shaft, a hole without mechanically-powered equipment, or a shallow injection well.
2. The injection well shall be constructed to prevent the entrance of any fluids other than that specified in the permit.
3. The injection well shall be constructed to prevent waste of artesian fluids and/or pressure, or movement of fluids from one aquifer to another.
4. When construction or modification of an injection well has been completed, the owner shall inform the Director of completion on a form provided by the Department.
5. A sampling port shall be provided at the wellhead if the injection well system is enclosed. If the well is located within a pond or similar basin, an elevated walkway to the wellhead for sampling access must be constructed and maintained in safe operating condition by the operator of the injection well.

B. OPERATIONAL CONDITIONS

1. The injection well will not be used until the construction, operation and maintenance requirements of the permit are met and provisions are made for any required inspection, monitoring and record keeping.
2. Injected fluids shall meet Ground Water Quality Standards for physical, chemical and radiological contaminants. Fluids containing biological contaminants shall meet Ground Water Quality Standards at existing points of diversion or any Point of Beneficial Use developed in the future.
3. Best Management Practices shall be maintained to minimize the concentration of coliform bacteria in the injected fluid to protect the quality of groundwater. Well screens shall be maintained in good condition on all injection wells. Settlement ponds, if present, shall be maintained in good condition.

4. Injection of any contaminant as defined in IDAPA 37.03.010.010 into the subsurface that may cause a health hazard or adversely affect a designated and protected use is prohibited.
5. The injection well owner or operator shall develop approved procedures to detect constructional or operational failure of the well in a timely fashion and shall have contingency plans to cope with the failure of the well.
6. Authorized officials of the Department shall be allowed to enter, inspect and/or sample:
 - a. The injection well and related facilities;
 - b. The owner or operator's records of the injection operation;
 - c. Monitoring instrumentation associated with the injection operation; and
 - d. The injected fluids.
7. The injection facilities shall be operated and maintained to achieve compliance with all terms and conditions of this permit.
 - a. Proper operation and maintenance includes effective performance, adequate funding, operator staffing and training, and adequate laboratory and process control, including appropriate quality assurance procedures.
 - b. If compliance cannot be met, the owner shall take corrective action or terminate injection.
8. Should the use of the well lead to degradation of the groundwater or harm beneficial uses, the permit may be cancelled. The permittee may be required to mitigate for harm or degradation resulting from use of this injection well or noncompliance with the terms and conditions of the permit. If contamination is found in nearby producing well(s), the owner/operator of surrounding injection well(s) may be responsible for monitoring.
9. If an injection well was constructed prior to issuance of this permit, it shall be brought into compliance with the terms and conditions of this permit in accordance with the schedule of compliance issued by the Director.
10. The owner/operator of the injection well(s) shall notify an IDWR official of any changes in surface activities within the drainage area that significantly impact injectate water quality or quantity. Such changes may require a new application.

C. REQUIREMENTS FOR ABANDONMENT

1. Notice of abandonment shall be submitted on a form provided by the Director.
2. Plans for the abandonment of injection wells shall be approved prior to commencement of the activity.

3. Notice of completion of abandonment shall be submitted to the Director within 30 days of completion.
4. All injection wells shall be plugged with cement grout or other impervious material in such a manner as to prevent movement of fluids into or between drinking water sources. Where an injection well is not completed as planned, the Director shall be notified. Abandonment or other action, as prescribed by the Director, may be required.
5. The injection well owner or operator shall maintain the financial responsibility to insure that the injection operation is abandoned as prescribed.
6. Temporary abandonment, including use of a welded steel plate to cover the well opening, or a packer to occlude the well bore does not exempt the owner or operator from the requirement to obtain a permit. A well that is permitted as temporarily abandoned must receive a new permit in order to inject fluids.

D. MONITORING, RECORD KEEPING AND REPORTING REQUIREMENTS

1. Monitoring
 - a. All monitoring tests and analyses are to be performed by a state-certified laboratory or other laboratory, as approved by the Director, using recommended methods as defined in Idaho's Injection Well Rules and Regulations.
 - b. All required field instruments should be periodically tested and maintained to ensure accuracy of results.
 - c. All samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity and fluids injected.
2. Record Keeping
 - a. The permittee shall maintain records of all monitoring activities, to include:
 - 1) Date, time and exact place of sampling;
 - 2) Person or firm performing the analysis;
 - 3) Date of analysis, analytical methods used and results of analysis;
 - 4) Calibration and maintenance of all monitoring instruments; and
 - 5) All original tapes, strip charts or other data from continuous or automated monitoring instruments.
 - b. The permittee shall retain for a period of five (5) years all records of monitoring, construction and application information.
 - 1) The period of retention for records shall be extended during the course of any litigation regarding the discharge of contaminants by the permittee or when requested by the Director.
 - 2) This requirement shall continue in effect during the five (5) year period following abandonment of the injection well.

3. Reporting

- a. All monitoring, results shall be reported to the Director as prescribed by the permit.
- b. The Director shall be notified in writing by the permittee within five (5) days after the discovery of a violation of the terms and conditions of the permit. If an injection activity endangers human health or the environment, use of the injection well shall be immediately discontinued and the owner or operator shall immediately notify the Director. The notification shall contain the following information:
 - 1) A description of the violation and its cause;
 - 2) The duration of the violation, including dates and times; if not corrected or use of the well discontinued, the anticipated time of correction;
 - 3) Steps being taken to reduce, eliminate, and prevent recurrence of the discharge.
- c. Where the permittee becomes aware that it failed to submit any relevant facts in any permit application or reports to the Director, that person shall promptly submit such facts or information.
- d. The permittee shall furnish the Director, within a reasonable time, any information that the Director may request to determine compliance with this permit.
- e. All permits, notices and reports submitted to the Director shall be signed and certified.
- f. The Director shall be notified in writing of planned physical alterations or additions to any facility related to the permitted injection well operation.
- g. **Additional information to be reported to the Director in writing:**
 - 1) Transfers of ownership
 - 2) Any change in operational status not previously reported
 - 3) Any anticipated noncompliance
 - 4) Reports of progress toward meeting the requirements of any compliance schedule attached or assigned to this permit.



State of Idaho

DEPARTMENT OF WATER RESOURCES

322 East Front Street, P.O. Box 83720, Boise, ID 83720-0098

Phone: (208) 287-4800 Fax: (208) 287-6700 Web Site: www.idwr.idaho.gov.

JAMES E. RISCH
Governor

KARL J. DREHER
Director

January 18, 2007

RECEIVED

JAN 24 2007

WATER RESOURCES
WESTERN REGION

Linda Klinger for Velma Morrison
The Falcon Building
827 E. Park Blvd.
Boise, ID 83706

Re: Permit for the Operation of Injection Well # 63W229001

Dear Ms. Klinger,

Enclosed is a copy of the approved permit for the injection well referenced above. Attachment I contains the standard conditions pertaining to the construction and operation of all injection wells in the State of Idaho. Attachment II contains conditions specific to the operation of this well. These conditions state the following requirements:

- 1) Injected fluids shall be limited to heat pump return flow water.
- 2) A closed system shall be maintained to prevent contamination of the discharge fluids. A sampling port is required. A protected air vent may be installed if needed.
- 3) Any system additives must have prior approval from IDWR.
- 4) The maximum average weekly injection rate shall not exceed 175 gpm.
- 5) This permit shall expire on December 31, 2016. If use of the well is desired beyond this date, a new application must be filed.

If you have any questions, please call me at 208-287-4932.

Sincerely,

Angela Grimm
Hydrogeologist, UIC Program

Encl.

Please Note: Injection wells represent potential hazards to groundwater resources through intentional or unintentional injection of contaminating substances. The well owner and/or operator may incur considerable costs for mitigation, cleanup, and court fees in the event that contamination is caused through an injection well. An injection well permit does not release the well owner and/or operator from such potential liability. Well closure is encouraged wherever practical, and requires prior approval. Please contact IDWR for further information.

Injection Well # 63W229001
Linda Klinger for Velma Morrison
The Falcon Building

IDAHO DEPARTMENT OF WATER RESOURCES

ATTACHMENT II
SPECIAL CONDITIONS REGARDING THE OPERATION OF
INJECTION WELL # 63W229001

12/06

- 1) Injected fluids shall be limited to heat pump return flow water.
- 2) A closed system shall be maintained to prevent contamination of the discharge fluids. A sampling port is required. A protected air vent may be installed if needed.
- 3) Any system additives must have prior approval from IDWR.
- 4) The maximum average weekly injection rate shall not exceed 175 gpm.
- 5) This permit shall expire on December 31, 2016. If use of the well is desired beyond this date, a new application must be filed.