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Form No. 217
9/08

SEP 09 2009

DEPARTMENT OF WATER RESOURCES

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
STATEMENT OF COMPLETION
FOR SUBMITTING PROOF OF BENEFICIAL USE

FOR OFFICE USE ONLY	
Amt. of Fee \$:	100
Receipt No.:	W037858
Receipt By:	gph
Date Received:	9-4-09

The Idaho Department of Water Resources considers this form a statement by the permit holder(s) that development of a water right has been **completed** and that water has been applied to beneficial use to the extent described below. **This form must be accompanied by an examination fee, when necessary, or by a completed Beneficial Use Field Report prepared by a certified water right examiner.** Please refer to the instructions and fee schedule for this form. If ownership of the permit has changed, please contact any Department office or visit the Department's website at: www.idwr.idaho.gov for an *Assignment of Permit* form. If you wish to relinquish your permit because you have not established the authorized use of the water and are not applying for an extension, please notify the Department in writing.

- Permit No. 65-23311 Telephone No. (208) 388-2905
- Name of Permit Holder(s): Idaho Power
- Mailing Address: P.O. Box 70 City Boise
State ID Zip 83707 Email: jbowling@idahopower.com
- Source of Water: Well If **GROUND WATER** (well), Date Drilled: mo. 7 / yr. 2008
Well Driller: Dennis Phipps Well Drilling Inc Drilling Permit Number: 852268
- Extent of use(s) completed (as authorized by the water right permit):
Domestic (No. of households): Stockwater (No. and type of stock):
Irrigation (No. of acres): 0.5 Other: Office domestic use, Heating and Cooling
- Total rate of diversion or storage volume for which proof is submitted: 0.36 cfs OR acre-feet.
- Compliance with a Measuring Device requirement and/or other Conditions of Permit: *(Refer to the approval conditions on your permit and respond accordingly.)*

Measuring Device: Is a measuring device required?

Yes ☐ No ☒

If yes, has the measuring device been installed?

Yes ☐ No ☒

Conditions of Permit: Does your permit require you to submit additional information in connection with your proof of beneficial use? (If yes, please list the conditions below and provide documents if necessary.)

Well Drilling Permit

Completed?

Yes ☒ No ☐

Injection Well Permit

Completed?

Yes ☒ No ☐

- Fee Enclosed: \$100.00 (See Fee Schedule on back of the instructions for filing proof of beneficial use. Proofs filed without an appropriate fee, will be considered incomplete.)

- Person to contact to accompany the Department representative during field examination of the water system.

Name: Tony Calzacorta Telephone Number: (208) 630-7920

Mailing Address: 30 West Lake Fork Road City: McCall

State: ID Zip: 83638 Email: tcalzacorta@idahopower.com

- The information given on this form is my true statement of the extent to which the above numbered permit has been developed and water has been diverted and applied to a beneficial use. I understand that any undeveloped portion of the permit is relinquished to the State of Idaho.**

Signature of permit holder: [Signature]
(include your title, if on behalf of company or organization)

Date: 8/27/09

SEP 04 2009

WATER RESOURCES
WESTERN REGION

Attachment 1

Well Drilling Log

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

1. WELL TAG NO. D D0053011

Drilling Permit No. _____
Water right or injection well # _____

2. OWNER

Name Idaho Power Co.
Address P.O. Box 1954
City McCall State Id Zip 83638

3. WELL LOCATION:

Twp. 17 North ☒ or South ☐ Rge. 3 East ☒ or West ☐
Sec. 3 SW 1/4 SW 1/4 SW 1/4
10 acres 40 acres 160 acres

Gov't Lot _____ County Valley
Lat. 44° 50'00" 287"N (Deg. and Decimal minutes)
Long. 116° 05'13" 721"W (Deg. and Decimal minutes)
Address of Well Site 30 W. Lakefork Rd.

City Lakefork
Lot _____ Blk. _____ Sub. Name _____

4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation ☐ Thermal ☐ Injection
☐ Other _____

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Replacement well ☐ Modify existing well
☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES

Seal material	From (ft)	To (ft)	Quantity (lbs or ft³)	Placement method/procedure
5/8 Bentonite	0	20	600 lbs.	12" Overbore

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
8"	2	141	.250	Steel	☒	☐	☐	☒
5"	139	144	.258	Steel	☐	☒	☐	☒
5"	174	175	.258	Steel	☐	☒	☐	☒

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 141'

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method _____
Manufactured screen ☒ Y ☐ N Type Johnson
Method of installation Pullback

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
144	174	.020	30'	5"	Stainless	304

Length of Headpipe 5' Length of Tailpipe 1'

Packer ☒ Y ☐ N Type Rubber K-Packer

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft³)	Placement method
N/A				

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) _____
Describe control device _____

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) _____ Static water level (ft) 47'
Water temp. (°F) _____ Bottom hole temp. (°F) _____
Describe access port _____

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)
127'	150 GPM	3 HRS.

Test method:

Pump ☒ Bailer ☐ Air ☐ Flowing artesian ☐

Water Quality test or comments:

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water Y N
12"	0	3	Top Soil	X
	3	11	Sandy Brown Clay	X
	11	20	Brown Coarse Sand w/ Clay	X
8"	20	22	Brown Coarse Sand w/ Clay	X
	22	37	Gravel	X
	37	46	Clay w/ Gravel	X
	46	47	Brown Clay	X
	47	62	Sand & Gravel	X
	62	75	Sandy Brown Clay	X
	75	115	Gravel	X
	115	122	Brown Clay	X
	122	126	Sand	X
	126	138	Brown Clay	X
	138	157	Coarse White Sand	X
	157	158	Clay	X
	158	174	Coarse White Sand	X
	174	175	Clay	X

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WATER RESOURCES
WESTERN REGION

Completed Depth (Measurable) 175'

Date: Started 7/17/08 Completed 7/29/08

14. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Dennis Phipps Well Drilling Inc. Co. No. 332

*Principal Driller [Signature] Date 7/30/08

*Driller [Signature] Date 7/30/08

*Operator II MINE KURTZ Date 7/30/08

Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required.

Attachment 2
Injection Well Permit
And
Well Log for Injection Well



State of Idaho
Department of Water Resources

Injection Well Permit No. 65-W-028-001

Permit Holder: Duncan King
Petra
PO Box 1954
McCall ID, 83638

Facility: Idaho Power
30 W. Lake Fork Rd.
Lake Fork ID, 83635

Expiration Date: 6/31/2018

Injection Well Classification: 5A07

Injection Well Location:

<u>PLSS</u>	<u>Latitude/Longitude</u>	<u>County</u>
T17N R3E S3 SW SW SW	44.83294525 N -116.08495993 W	Valley

Well Construction Information:

<u>Well Diameter</u>	<u>Well Depth</u>	<u>Surface Casing Dia.</u>
0.5 ft	173 ft	0.5 ft

Injectate: Closed-Loop Heat Exchange Return Flow

Pretreatment Method: N/A

Injection Activity:

<u>Frequency</u>	<u>Maximum Average Weekly Rate</u>	<u>Maximum Injection Capacity</u>
Seasonal	140 gpm	160 gpm

Land Use in Drainage Area: N/A

Conditions of Approval:

1. This injection well is administered under IDAPA 37.03.03, Rules and Regulations for the Construction and Use of Injection Wells, and IDAPA 37.03.09, Well Construction Standards & Rules.
2. Discharge into the well shall be restricted to closed-loop heat exchange return flow water.
3. A closed loop system shall be maintained to prevent contamination of the injectate. A



State of Idaho
Department of Water Resources

Injection Well Permit No. 65-W-028-001

protected air vent may be installed if needed, and a sampling port is required.

4. Discharge water from the heat exchange into the well is recommended to be delivered via a drop pipe that terminates below the static water level in the well. Seasonal fluctuations in groundwater levels should be considered when determining the depth of the drop pipe to insure that the outflow end is submerged at all times. This eliminates cascading water on the casing thereby reducing the potential for bacterial growth and corrosion. A pitless adaptor should be used to create a watertight seal between the drop pipe and conductance pipe delivering water to the well to prevent contamination of the discharge water.
5. Additives shall be used in the injectate only if approved by the Department of Water Resources.
6. The temperature of injected water will be maintained below 85° F. If the injectate temperature exceeds 85° F, the Department of Water Resources shall be notified within 48-hours of the increased injectate temperature.
7. Violating the injectate quality standards stated in IDAPA 37.03.03.050.05 or degrading the quality of the groundwater, including thermal quality, or impacting a beneficial use of the resource through the use of this injection well, is cause for cancellation of this permit.
8. A well log shall be submitted to the Department of Water Resources within 30 days of the completion of this well.
9. If use of this well is desired after the expiration date of this permit, a new permit is required.
10. This permit includes Attachment I – Standard Conditions and Requirements Pertaining to Constructing, Modifying, Operating and/or Abandoning an Injection Well, and Attachment II – Permit Application.

This permit shall be administered in accordance with Idaho law and applicable rules of the Idaho Department of Water Resources.

Date this 7th day of November, 20 08


Chief, Resource Protection Bureau



**State of Idaho
Department of Water Resources**

Injection Well Permit No. 65-W-028-001

ATTACHMENT I

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

A. CONSTRUCTION REQUIREMENTS

1. Injection wells 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. Injection wells shall be constructed to prevent the entrance of any fluids other than that specified in the permit.
3. Injection wells 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 an injection 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. Injection wells shall 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, as described in the Idaho Department of Environmental Quality 2005 Catalog of Stormwater Best Management Practices for Idaho Cities and Counties, 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.



**State of Idaho
Department of Water Resources**

Injection Well Permit No. 65-W-028-001

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 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(s) 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 access to adequate laboratory and process control, including appropriate quality assurance procedures; and
 - b. If compliance with any provision of this permit cannot be met, the owner shall take corrective action or terminate injection.
8. Should use of the well(s) 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 the injection well(s) or noncompliance with any 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 with the UIC Program 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.



**State of Idaho
Department of Water Resources**

Injection Well Permit No. 65-W-028-001

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 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 construction, baseline monitoring, injection, monitoring at injection sites and at monitoring sites, and application information.



**State of Idaho
Department of Water Resources**

Injection Well Permit No. 65-W-028-001

- 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 dated, 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 for prior approval.
- 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 schedule attached or assigned to this permit.

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

852311

1. WELL TAG NO. D D0053012

Drilling Permit No. 905250-852311

Water right or injection well # 65-W-028-001

2. OWNER

Name Idaho Power

Address 30 Lakefork Rd.

City Lakefork State Id Zip 83635

3. WELL LOCATION:

Twp. 17 North ☒ or South ☐ Rge. 3 East ☒ or West ☐

Sec. 3 SW 1/4 SW 1/4 SW 1/4
10 acres 40 acres 160 acres

Gov't Lot County Valley

Lat. 44° 50.008'N (Deg. and Decimal minutes)

Long. 116° 05.248'W (Deg. and Decimal minutes)

Address of Well Site Same

City Lakefork

(Give at least name of road or Distance to Road or Landmark)

Lot. Blk. Sub. Name

4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation ☐ Thermal ☒ Injection
☐ Other

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Replacement well ☐ Modify existing well
☐ Abandonment ☐ Other

6. DRILL METHOD:

☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other

7. SEALING PROCEDURES

Seal material	From (ft)	To (ft)	Quantity (lbs or ft³)	Placement method/procedure
5/8 Bentonite	0	22	1100 lbs.	12" Overbore

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
6"	2.5	150	.250	Steel	☒	☐	☐	☒
5"	146	151	.258	Steel	☐	☒	☐	☒
5"	172	173	.258	Steel	☐	☒	☐	☒

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 150'

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method

Manufactured screen ☒ Y ☐ N Type Johnson

Method of installation Pullback

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
151	161	.025	10'	5"	Stainless	304
162	172	.025	10"	5"	Stainless	304

Length of Headpipe 5.0 Length of Tailpipe 1.0

Packer ☒ Y ☐ N Type Rubber K-Packer

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft³)	Placement method
N/A				

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG)

Describe control device

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) Static water level (ft) 45'

Water temp. (°F) Bottom hole temp. (°F)

Describe access port

Well test:

Test method:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Bailer	Air	Flowing artesian
	120 GPM	1 Hr.	☐	☐	☒	☐

Water Quality test or comments:

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks. lithology or description of repairs or abandonment, water temp.	Water Y N
12"	0	2	Top Soil	X
	2	22	Sandy Clay w/ Gravel	X
6"	22	33	Sandy Clay w/ Gravel	X
	33	40	White Sand & Gravel	X
	40	54	Coarse Sand w/ Brown Clay	X
	54	66	White Coarse Sand & Gravel	X
	66	70	Brown Clay	X
	70	86	Gravel	X
	86	90	Brown Clay	X
	90	95	Red Sand	X
	95	101	Red Clay	X
	101	108	White Coarse Sand & Gravel	X
	108	120	Brown Clay	X
	120	124	Coarse White Sand	X
	124	135	Brown Clay	X
	135	173	Coarse White Sand & Gravel	X

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WATER RESOURCES
WESTERN REGION

Completed Depth (Measurable) 173'

Date: Started 7/15/08 Completed 7/16/08

14. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Dennis Phipps Well Drilling Inc. Co. No. 332

*Principal Driller Date 7/18/08

*Driller Date 7/18/08

*Operator II Date 7/18/08

Operator I Date

* Signature of Principal Driller and rig operator are required.

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WATER RESOURCES
WESTERN REGION

LIMITED LEGAL POWER OF ATTORNEY

The Idaho Power Company, an Idaho Corporation, does hereby appoint John K. Simpson, and Shelley M. Davis, of the law firm Barker Rosholt & Simpson, LLP, as agents of the Idaho Power Company, and for the Company and in the Company's name authorizes such agents to execute and sign any and all documents necessary to conduct business before the Idaho Department of Water Resources, and generally to do and perform all things necessary in or about the premises as fully in all respects as I could do if personally present.

Signed: 

James C. Tucker, Legal Counsel to the Idaho Power Co.