

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 87-7213

Exam Date: 06/28/13

1. Current Owner: ARNOLD T GEFFRE
4193 HWY 95 S
MOSCOW ID 83843
(208)882-5825

2. Accompanied by:

Phone No:

Address:

Relationship to Permit Holder:

- | 3. <u>SOURCE</u> | <u>TRIBUTARY</u> |
|------------------|------------------|
| GROUND WATER | |

B. OVERLAP REVIEW

1. Other water rights with the same place of use:
2. Other water rights with the same point of diversion:

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER NW1/4NE1/4 Sec. 30, Twp 39N, Rge 05W, B.M. LATAH County

Method of Determination: Digitized

- 2.

PLACE OF USE: DOMESTIC

[illegible]

Method of Determination:

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

<u>Well or Diversion</u> <u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
	Unknown	0.5			

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
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2. Measurements:

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

Theoretical pump flow rate (using 0.5 HP, 70% efficiency, zero feet of lift, and 20 psi):
 $Q = (8.8 \times 0.5 \times 0.7) / (0 + (20 \times 2.31)) = 0.07 \text{ cfs}$

The diversion rate to be licensed under this right will be limited to 0.06 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$$

2. Volume Calculations for Other Uses:

Domestic: 0.6 AF per home (standard for internal use)

Domestic: 0.6 AF per home (standard for external use)

Total: 1.2 AF per home x 2 homes = 2.4 AF

G. NARRATIVE/REMARKS/COMMENTS

This permit was in-office field examined on 06/28/13 by myself, Craig Tesch. This permit authorizes the diversion of ground water to be used for domestic purposes. Ground water is supplied by a 125-foot deep, 6-inch well (permitted POD, IDWR tag #D0003577). The well is steel cased from land surface to 70-feet below ground level through 30-feet of clay, and finished open hole in granite to a final depth of 125-feet below ground level; the granite is confined by the clay and the system is flowing at the surface.

Water is used for domestic purposes including standard indoor use at two households. The well is located near the main house as you enter the property off highway U.S. 95. The pump in the well has a 0.5 HP motor per the proof of beneficial use. Theoretical pump flow rate was calculated using 0.5 HP, 70% efficiency, 0 feet of lift (flowing artesian well), and 20 psi (standard domestic with no gauge) resulting in a discharge rate of 0.07 cfs. Pump discharge is greater than the requested diversion rate of 0.06 cfs.

No overlapping water rights exist on the place of use. Water right 87-7195 is in the same 40-acre tract, but it is for a different owner on a different tax lot.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	01/01 to 12/31	0.060 CFS	2.4 AF
<u>Totals:</u>		0.060 CFS	2.4 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Craig Tusk Date 7/1/2013

Reviewer _____ Date _____

Process	Basin Sequence	Draft	Owner	Source	POD/POU	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total Acres
Water Right	87-4009	N	LUCAS, JAMES R	POND	POD			X						X				X				0
Water Right	87-4009	N	LUCAS, JAMES R	POND	POU									30.0				10.0				40
Water Right	87-4038	N	SCHUMACHER, JOY M; SCHUMACHER, WALTER M	GROUND WATER	POD												X					0
Water Right	87-4038	N	SCHUMACHER, JOY M; SCHUMACHER, WALTER M	GROUND WATER	POU												X					0
Water Right	87-7007	N	PAUL, LAWRENCE	GROUND WATER	POD				X													0
Water Right	87-7007	N	PAUL, LAWRENCE	GROUND WATER	POU				X													0
Water Right	87-7022	N	LUCAS, JAMES R	GROUND WATER	POD									X								0
Water Right	87-7022	N	LUCAS, JAMES R	GROUND WATER	POU									X				X				0
Water Right	87-7080	N	CLYDE, PATRICIA; CLYDE, ROBERTCLYDE	GROUND WATER	POD												X					0
Water Right	87-7080	N	CLYDE, PATRICIA; CLYDE, ROBERTCLYDE	GROUND WATER	POU												3.0					3
Water Right	87-7195	N	MABBUTT, WILLIAM L	GROUND WATER	POD	X																0
Water Right	87-7195	N	MABBUTT, WILLIAM L	GROUND WATER	POU	6.0																6
Water Right	87-7195	N	MABBUTT, WILLIAM L	GROUND WATER	POU	X																0
Water Right	87-7200	N	JOHNSON JR, OLE	GROUND WATER	POD				X													0
Water Right	87-7200	N	JOHNSON JR, OLE	GROUND WATER	POU				1.5													1.5
Water Permit	87-7213	N	GEFFRE, ARNOLD T	GROUND WATER	POD	X	X															0
Water Permit	87-7213	N	GEFFRE, ARNOLD T	GROUND WATER	POU	X	X															0
Water Right	87-7213	Y	GEFFRE, ARNOLD T	GROUND WATER	POD		X															0
Water Right	87-7213	Y	GEFFRE, ARNOLD T	GROUND WATER	POU	X	X															0

87-7195 is in the same 40 acre tract,
but it is for a different property.

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT 77436

Use Typewriter or Ballpoint Pen

Office Use Only
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 _____ 1/4 _____ 1/4 _____
Lat: _____ Long: _____
☒ Air ☐ Flowing Artesian

1. DRILLING PERMIT NO.

Other IDWR No. 87-98-N-0006-000

2. OWNER:

Name Arnold T. Geffre
Address 4193 Hwy 95
City Moscow State ID Zip 83843

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

Map grid showing location: Twp. 39 North ☒ or South ☐
Rge. 3 East ☐ or West ☒
Sec. 30 1/4 NE 1/4 NE 1/4
Gov't Lot _____ County Latah
Lat: _____ Long: _____
Address of Well Site same as above City _____
(Give at least name of road + Distance to Road or Landmark)

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

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

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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
<u>Grout Cement</u>	<u>0</u>	<u>70</u>	<u>fill hole</u>	<u>grout</u>

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) _____
Was drive shoe seal tested? ☐ Y ☐ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>6"</u>	<u>+2</u>	<u>70</u>	<u>250</u>	<u>steel</u>	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

☐ Perforations Method _____
☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

flowing ft. below ground Artesian pressure 0 lb.
Depth flow encountered 125 ft. Describe access port or control devices: top of well

39 N 5 W 30

11. WELL TESTS:

☐ Pump ☐ Baller

Yield gal./min	Drawdown	Pumping Level	Time
<u>25 gpm</u>			

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: good

Depth first Water Encountered 125

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>8</u>	<u>0</u>	<u>2</u>	<u>dirt</u>		☒
	<u>2</u>	<u>31</u>	<u>clay</u>		☒
	<u>31</u>	<u>68</u>	<u>sand clay</u>		☒
<u>6</u>	<u>68</u>	<u>125</u>	<u>1/4 gravel</u>		☒

Completed Depth 125 (Measurable)
Date: Started 3/25/98 Completed 3/28/98

13. DRILLER'S CERTIFICATION

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

Firm Name Whelan & Co Firm No. 125

Firm Official Ray Whelan Date 7/7/98

and Supervisor or Operator Steve Whelan Date 7/7/98

(Sign once: 1 Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES





Address **U.S. 95**

Address is approximate

On U.S. 95 looking east at pump house for #87-07213



small pump house