

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
IN-OFFICE REVIEW/BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-33754

Exam Date: 4/9/2014

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? ☒ Yes ☐ No
- Irrigation of 5 acres or less
 - Storage of up to 14.6 AF for stockwater purposes only
 - Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
 - Other < >

2. Current Owner: Name: James Shupe & Darla Simonson
- Owner of Record Correct? ☒ Yes ☐ No
- Address of Record Correct? ☒ Yes ☐ No
- If No: Address

3. Beneficial Use Fees have been paid: ☒ Yes ☐ No Receipt No: WO41906

4. SOURCE TRIBUTARY

Groundwater

Method of Determination: Applicant submitted an aerial photo map that outlined POD & POU.

Change in Source: ☐ Yes ☒ No**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: Overlap? ☐ Yes ☒ No

Water Right No.	Source	Purpose of Use	Basis

Comments: There are no other water rights that share POU - Irrigation company water rights not pertinent to the land.

2. Other water rights with the same point of diversion: Overlap? ☐ Yes ☒ No

Water Right No.	Source	Purpose of Use	Basis

Comments: There are no other water rights that share POD.

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

Source	Govt. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.		County
Ground water	1		SE	SE	13	05N	04W		Canyon

Method of Determination: Legal Description in permit validated by PLS data and mapping.

Change in POD? ☐ Yes ☒ NoAmendment Required? ☐ Yes ☒ No

2. **PLACE OF USE:** Use: Domestic & Irrigation

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
05N	04W	13																1.8	1.8
05N	04W	13																X	

Method of Determination: Map of property submitted by land owner identifies POU clearly. PLSS data through ArcMap match.

Change in POU? ☐ Yes ☒ No Amendment Required? ☐ Yes ☒ No☐ Delivery System Diagram Attached (required). Indicate all major components and distances between components.

Indicate weir size/pipe as applicable.

☒ Aerial Photo Attached (required for irrigation of 10+ acres).☐ Photo of Diversion and System Attached

4. Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Well	Unk	3	Unk	Unk	Unk

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

D. FLOW MEASUREMENTS

1.Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: In-office field exam so flow measurements not applicable.**E. FLOW CALCULATIONS**☒ Additional Computation Sheets Attached

Measured Method:

Administrator memo #17 authorizes a irrigation flow rate of 0/03 cfs per acre.

>>> 1.8 acres * 0.03 cfs/acre = 0.054 cfs

See the theoretical calculation sheet with a number of scenarios providing a calculated average flow rate of 0.07 cfs.

Measurement = 0.07 cfs**Permit allowed = 0.06 cfs****License recommend for 0.06 cfs.****F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.8 \times 4.5 = 8.1$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.06 \times 260 \times 1.9835 = 30.9$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 8.1$$

2. Volume Calculations for Other Uses:
0.6 af recommended per Administrator Memo #22

G. PURPOSE OF USE

Irrigation ☒ Yes ☐ No # Stock 0 Domestic # of Homes 1

Other: < >

Change in Purpose of Use? ☐ Yes ☒ No

Method of Determination: Information in the water right file is consistent with aerial photography of the property.

If Yes: From Use _____ To Use _____ Amount _____ CFS _____ AFA _____

H. NARRATIVE/REMARKS/COMMENTS

Permit 63-33754 authorized the use of 0.06 cfs from a well for domestic and irrigation water purposes. Based on the information provided in the water right file, this qualifies for an in-office field exam.

Contact was made with Mr. Shupe on April 16, 2014 to confirm that there are no other surface water rights associated to the property. I also asked him about the pump horse power used on the well. He informed me that this was a closed system running a 3 horsepower pump and that all water used on the property is solely from the well.

Theoretical calculations were completed and attached to this report. To complete the theoretical flow calculations, I took the static water level from the drillers report and added 10' per section C on the Theoretical Dynamic Pumping Level Diagram for Wells. I used 3 different pressures ranging 40-60 psi for normal irrigation and household systems. The theoretical flow rate slightly exceeded what would be suggested under Administrators Memo. #17, so the permitted flow rate was suggested for the license.

Domestic flow rate and volumes were taken from Administrator's Memo #22. This recommends a flow rate up to 0.04 cfs and a volume of 0.6 af when irrigation is a separate component in the water right.

Place of use comparison showed a small number of POU overlap. These were large irrigation company water rights, none of which are in use at the Shupe property.

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

I. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Irrigation	03/01-11/15	0.05 cfs	8.1 af
Domestic	01/01 – 12/31	0.04 cfs	0.6 af
	<u>Totals</u>	0.06 cfs	8.7 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 ☒ None

Other: < >

J. AUTHENTICATION

Field Examiner's Name Patrick Kelly Date 09/17/2014

Reviewer Daniel A. Mohr Date 4-28-14

State of Idaho
Department of Water Resources
Field Exam Map
63-33754

This map depicts the IRRIGATION place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters

0 0.04 0.08 0.16 Miles



THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 63-33754
 Reviewer: Patrick Kelly
 Date of Review: 4/17/2014

P/D No.:	Senerio 1	Senerio 2	Senerio 3
PUMP HORSEPOWER	3	3	3
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	164	164	164
DISCHARGE PRESSURE	40	50	60
RATE OF FLOW (cfs)	0.07	0.07	0.06 0.07

The above calculates the formula =

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency.
 No Friction

Examiners Notes:

Static water level of 154 ft. was found on drillers report. I added 10' per recomendation C according to Theoretical Dynamic Pumping Level Diagram for Wells. Used 40-60 pressure using standard irrigation system limits. Average rate of flow is 0.07 cfs. This represents that the recommended 0.06 cfs is capable of being supplied to the property.

Drilling Permit 163-94-W-0317-000
 Water Right Permit No. _____
 Injection Permit No. _____
WELL DRILLER: PLEASE COMPLETE FOR VERBALS
 IDWR Employee Issuing Verbal: Denise
 Verbal Issued Date: 4-22-94 Time: 10:05 Am
RECEIVED**MAY 17 1994****WATER RESOURCES
WESTERN REGION**
 State of Idaho
 Department of Water Resources

**APPLICATION FOR DRILLING PERMIT
 (FOR THE CONSTRUCTION OF A WELL)**

1. Applicant (please print): James Shupe
2. Mailing Address: 1906 S. Juniper
 City & State Nampa Idaho Zip Code 83686 Telephone _____
☒ Well Owner ☐ Well Operator ☐ Contractor or Other, specify _____
3. Proposed Well Location: Twp. 5N, Rge. 4W, Sec. 13, SW 1/4 SE 1/4
 Gov't Lot No. _____ County Canyon
 Street Address of Well Site 18037 Goodson Rd. City Caldwell
Give at least name of road + Distance to Road or Landmark
 Lot, block and subdivision Lot 1

4. Proposed Use of Well:

- ☒ **DOMESTIC:** The use of water for homes, organization camps, public campgrounds, livestock (1,000 head or less) and for any other purpose in connection therewith, including irrigation of up to 1/2 acre of land, if the total use is not in excess of 13,000 gpd; or any other uses, if the total use does not exceed a diversion rate of 0.04 cfs and a diversion volume of 2500 gpd.

Domestic does not include water for multiple ownership subdivisions, mobile home parks, commercial or business establishments, unless the use does not exceed a diversion rate of 0.04 cfs and a diversion volume of 2500 gpd.

- NON-DOMESTIC:** ☐ Irrigation ☐ Municipal ☐ Industrial
☐ Stock ☐ Test ☐ Other _____
 (Over 1,000 Head) (Describe)
- ☐ **INJECTION**
- ☐ **MONITORING:** A well bore schematic and map is required for each blanket permit.
 No. of proposed wells: _____

5. Well Construction Information:

- A. ☒ New well ☐ Modify ☐ Replace
- B. Proposed Casing Diameter 6" Proposed Maximum Depth 250'
- C. Anticipated bottom hole temperature:
☒ 85°F or less (Cold Water Well) ☐ 85°F to 212°F (Low Temp. Geo. Well) ☐ 212° F. or more (Geothermal Well)

6. Construction Start Date: 4-22-94

Anticipated Well Driller: Precision Well Drilling Driller's Lic. No. 522
 NOTE: The actual well driller must be identified prior to drilling.

8. Applicant's Signature Jeff Hanson Date 4-22-94
 Title Driller
 (Owner, Firm Representative, Other)

ACTION OF THE DEPARTMENT OF WATER RESOURCES

This Permit is APPROVED Date 5.17.94

If approved, this permit authorizes the construction or modification of a well subject to the following conditions. READ CAREFULLY

GENERAL CONDITIONS:

1. This drilling permit is valid for two (2) months from the above approval date for the start of construction and is valid for one (1) year from the approval date for completion of the well unless an extension has been granted.
2. This permit does not constitute an approval of the District Health Department or the Idaho Department of Health and Welfare which may be required before construction of this well. All wells must be drilled a minimum distance of 100 feet from a drain field. Domestic and Public Water Supply wells must be drilled a minimum of 50 feet and 100 feet respectively from a septic tank.
3. The well shall be constructed by a driller currently licensed in the State of Idaho who must maintain a copy of the drilling permit at the drilling site.
4. Approval of this drilling permit does not authorize trespass on the land of another party.
5. This permit does not constitute other local, county, state or federal approvals which may be required for construction of a well.
6. This drilling permit does not represent a right to divert and use the water of the State of Idaho.
7. If a bottom hole temperature of 85° or greater is encountered, well construction shall cease and the well driller and the well owner shall contact the Department immediately.

SPECIFIC CONDITIONS:

DAVID R. TUTHILL JR.

MANAGER

WESTERN REGIONAL OFFICE

Robert B. Whiters For:
Signature of Authorized Department Representative

Title

Receipt No. W017489 Received by OB Fee 35.00 Date 5.17.94

EXTENSION OF DRILLING PERMIT

Extension approved by _____ Approval Date _____

This extension expires: _____

RECEIVED
JUN 17 1994

Department of Water Resources

1. DRILLING PERMIT NO. 63-94-W-0317-000

Other IDWR No.

2. OWNER:

Name James Shupe
Address 1906 S. Juniper
City Lampa State Id Zip 83686

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.


 T. 5 North ☒ or South ☐
 E. 4 East ☐ or West ☒
 Sec. 13 1/4 SW 1/4 SE 1/4
 Gov't Lot _____ County Canyon

Address of Well Site 18037 Goodson Rd.
Caldwell Id.
(Give at least Direction + Distance to Road or Landmark)

Lot No. 1 Block No. Subd. Name

4. PROPOSED USE:

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

5. TYPE OF WORK

☒ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment

6. DRILL METHOD

☐ Mud Rotary ☐ Air Rotary ☒ Cable ☐ Other

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
Enviroplug #8	0	20	5	over bore

Was drive shoe seal tested? Y ☐ NO ☐ How?

8. CASING/LINER:

Diameter	From	To	Gauge	Casting	Linear	Steel	Plastic	Welded	Threaded
6	12	299	250			☒	☐	☒	☐
						☐	☐	☐	☐
						☐	☐	☐	☐
						☐	☐	☐	☐

Final location of shoes _____
Top Packer or Headpipe 8' 299 Bottom Tailpipe ☒

9. PERFORATIONS/SCREENS

☐ Perforations Method Set pull back pipe
☒ Screens Type Johnson Material S.S.

From	To	Slot Size	Number	Diameter	Tel./Pipe Size	Casting	Linear
300	310	15		6"	TELE	☐	☐
						☐	☐
						☐	☐
						☐	☐

10. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Depth	Time
60		305	5 hrs

Temperature of water _____ Was a water analysis done? Yes ☐ No ☒

By whom?

Water Quality (odor, etc.) good

Bottom Hole Temperature _____

11. STATIC WATER LEVEL:

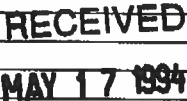
154 ft. below surface Depth artesian flow found

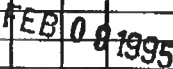
Artesian pressure _____ lb. Describe access port well cap

Describe Controlling Devices:

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	GPM	SWL
8	0	20	Sandy Clay		X
1	20	33	Fine Sand		X
6	33	40	Hrd brn Clay		X
	40	64	Sandy Clay		X
	64	88	med Sand		X
	88	93	Hrd brn Clay		X
	93	113	Sandy Clay		X
	113	134	Hrd brn Clay		X
	134	141	Sandy Clay		X
	141	163	med Sand	X	
	163	182	Hrd brn Clay		X
	182	185	med Sand	X	
	185	202	Sandy Clay		X
	202	220	Hrd brn Clay		X
	220	237	Sandy Clay		X
	237	243	Fine Sand	X	
	243	260	Hrd brn Clay		X
	260	291	Sandy Clay Fractured	X	
	291	300	Hrd brn Clay		X
	300	310	med Sand	X	







Date: Started 4-22-94

Completed 5-3-94

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 Precision Firm No. 532

Firm Official Jef. Hanson Date 5-14-94
and

Supervisor or Operator (Same) Date _____

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

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