

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A Beneficial Use Field Report is prepared by a water right examiner as the result of an examination to clearly confirm and establish the extent of the beneficial use of water established in connection with a permit during the development period authorized by the permit and any extensions of time previously approved.

A. GENERAL INFORMATIONPermit No. 63-336901. Owner Roger and Susan WilliamsonPhone No. 208-454-3912Current address 21986 Hoskins Rd, Caldwell, ID 836072. Examiner's name Cody ParkerEXAM DATE April 22, 20193. Accompanied by Roger Williamson

Email _____

Address _____

Relationship to permit holder _____

Phone No. _____

4. Source Groundwater

tributary to _____

B. OVERLAP REVIEW1. Other water rights with the same place of use Surface water shares2. Other water rights with the same source and point of diversion none**C. DIVERSION AND DELIVERY SYSTEM**

1. Point(s) of Diversion:

Ident. No.	Gov't Lot	¼	¼	¼	Sec	Twp	Rge	County	Method of Determination/Remarks
			NE	SW	9	03N	04W	Ada	GPS Aerial Imagery

2. Place(s) of Use:

Method of determination Digital PLSS, site visit, GPS

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N	04W	9									1.5								1.5
											D								

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☒ see attached.

Scale: 1" = _____

- ☐ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (**required**)
- ☐ 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
D0064161	Franklin	5		Submersible	

*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
none						

2. **Measurements:** _____

None required per IDAPA rule 37.03.02.035.01.r

E. NARRATIVE/REMARKS/COMMENTS

Permit 63-33690 was approved on October 5, 2012 authorizing the diversion of 0.11 cfs from groundwater for domestic, irrigation, and commercial uses. Proof of beneficial use was submitted September 4, 2015. I completed this field exam on May 6, 2019.

The point of diversion is a six-inch well drilled to a depth of 335 ft. A 5-hp Franklin submersible pump diverts water from the well to a house, and to around 1.5 acres of irrigation. Assuming around 50 ft drawdown, at 60 psi the pump curve shows a pumping capacity of around 37.5 gpm (or 0.083 cfs).

The commercial use was not developed and is not recommended on the license. The developed irrigation includes around 0.5 acres of lawn and 1.0 acres of rye grass. Domestic use is for the home. The lawn and rye grass are both included in the irrigation component, so domestic is for internal use only.

The total recommended diversion rate is 0.09 cfs which matches the estimated pump capacity of the system. There are no overlapping uses of the well.

Well coordinates: N 43 36'30.7" by W 116 49' 35.2"

Has the permit holder met all conditions of permit approval, including any mitigation requirements and/or measuring device installation requirements? ☒ Yes ☐ No If no, what must be done to meet the permit requirements?

F. FLOW CALCULATIONS☐ Additional computation sheets attached

Measured Method:

Domestic = 0.04 cfs per Admin AP Memo 22

Irrigation = 1.5 acres x 0.03 cfs/acre = 0.05 cfs

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I,R} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 4.5 \text{ afa/acre} \times 1.5 \text{ acres} = 6.8 \text{ afa}$$

$$V_{D,R} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 0.05 \text{ cfs} \times 260 \text{ days} \times 1.9835 = 15.5 \text{ afa}$$

$$V = \text{Smaller of } V_{I,R} \text{ and } V_{D,R} = 6.8 \text{ afa}$$

2. Volume Calculations for Other Uses:

Domestic 0.6 afa per Admin AP Memo 22 (internal use only)

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion	Annual Volume
	From	To	Q (cfs)	V (afa)
Domestic	01/01	12/31	0.04 cfs	0.6 afa
Irrigation	03/01	11/15	0.05 cfs	6.8 afa
Totals:			0.09 cfs	7.4 afa

2. Recommended Amendments

☐ Change P.D. as reflected on page 1☐ Add P.D. as reflected on page 1☐ None☐ Change P.U. as reflected on page 1☐ Add P.U. as reflected on page 1☐ Other**I. AUTHENTICATION**

Field Examiner's Signature

Date

5-10-2019

SEAL

Reviewer

Date

5-10-2019

State of Idaho
Department of Water Resources
Beneficial Use Field Report
63-33690

IRRIGATION

04W

03N



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

0 0.035 0.07 0.14 Miles

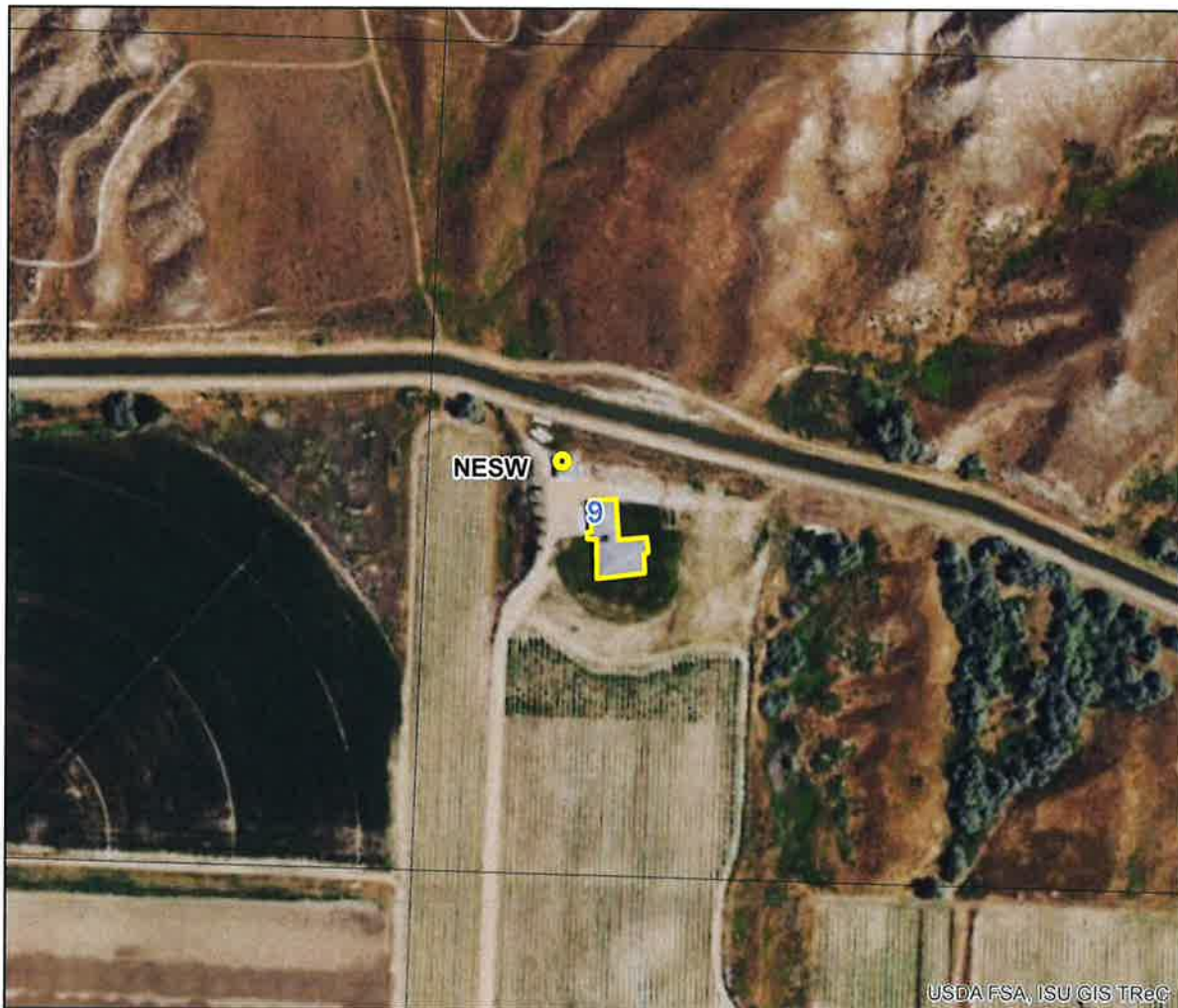


State of Idaho
Department of Water Resources
Beneficial Use Field Report
63-33690

DOMESTIC

04W

03N



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

0 0.035 0.07 0.14 Miles



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
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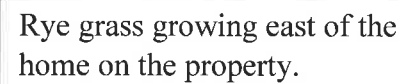


The six-inch well used as a point of diversion for this right.



Metal tag no D00641~~8~~1

An invoice from the well driller showing the size of the installed pump.



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BENEFICIAL USE FIELD REPORT

03N04W9

Basin/Sequ	Owner	Source	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total Acres
63-10426	KINCHEL	GROUND	IRRIGATION					39	35	13	26									113
63-136	BARKER	BOISE R ¹	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-137B	BARKER	BOISE R ¹	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-200A	BARKER	BOISE R ¹	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-20213	BUTLER	GROUND	DOMESTIC											X						
63-2106	UNITED S FIVEMILE	IRRIGATION		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-21143	MARTIN	GROUND	DOMESTIC													X				
63-21955	LODGE, P	GROUND	DOMESTIC		X															
63-21955	LODGE, P	GROUND	STOCKWATER																	
63-233K	AMERIC ^A	BOISE R ¹	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-23481	HOSKINS	GROUND	DOMESTIC																	
63-23481	HOSKINS	GROUND	STOCKWATER										X							
63-2388A	UNITED S BOISE R ¹	IRRIGATION		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-2392F	BOISE PR	WASTE W	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-251A	UNITED S BOISE R ¹	IRRIGATION		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-27306	LANDA, S	SPRING	DOMESTIC																X	
63-28237	KINCHEL	GROUND	DOMESTIC						X											
63-28548	ROHN, EN	GROUND	DOMESTIC			X														
63-28926	SYMMS F	SPRING	STOCKWATER													X				
63-28929	SYMMS F	GROUND	DOMESTIC													X				
63-301A	UNITED S BOISE R ¹	IRRIGATION		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-302A	UNITED S BOISE R ¹	IRRIGATION		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-3138A	KINCHEL	GROUND	IRRIGATION			15														15
63-3138B	KINCHEL	GROUND	IRRIGATION		35	20														55
63-3183A	KINCHEL	GROUND	IRRIGATION	5.7																27.7
63-33251	BOISE PR	INDIAN C	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-33253	BOISE PR	TENMILE	IRRIGATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-33690	WILLIAM	GROUND	DOMESTIC									X								
63-33690	WILLIAM	GROUND	IRRIGATION									1								1
63-372	BARKER	BOISE R ¹	IRRIGATION		X			X	X	X	X	X	X	X	X	X	X	X	X	
63-373A	UNITED S BOISE R ¹	IRRIGATION		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
63-8068A	LODGE, P	GROUND	IRRIGATION		X	15														15
63-8068B	KINCHEL	GROUND	IRRIGATION		35	20														55

Surface water irrigation overlap

BasinSeq	Owner	Source
1	...	...
2	...	...
3	...	...
4	...	...
5	...	...
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7	...	...
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100	...	...

Basin/Sequ	Owner	Source
63-20213	BUTLER, GROUND WATER	
63-21143	MARTIN, GROUND WATER	
63-21955	LODGE, F GROUND WATER	
63-23481	HOSKINS GROUND WATER	
63-28237	KINCHEL GROUND WATER	
63-28548	ROHN, ENGROUND WATER	
63-28926	SYMMS F SPRING	
63-28929	SYMMS F GROUND WATER	
63-3138A	KINCHEL GROUND WATER	
63-3138B	KINCHEL GROUND WATER	
63-3183A	KINCHEL GROUND WATER	
63-33690	WILLIAM GROUND WATER	
63-8068A	LODGE, P GROUND WATER	
63-8068B	KINCHEL GROUND WATER	
63-8197	LANDA, S SPRINGS	

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

1. WELL TAG NO. D 0064161

Drilling Permit No. AW303 867931
Water right or injection well # _____

2. OWNER:

Name Roger & Susan Williamson
Address 19694 Williamson Ln
City Caldwell State ID Zip 83607

3. WELL LOCATION:

Twp. 3 North ☒ or South ☐ Rge. 4 East ☐ or West ☒
Sec. 9 1/4 NE 1/4 SW 1/4

Gov't Lot _____ County Canyon
Lat. 43 ° 36.513 (Deg. and Decimal minutes)
Long. 116 ° 49.599 (Deg. and Decimal minutes)
Address of Well Site 21986 Hawk Rd
City Caldwell

(Give at least name of road + Distance to Road or Landmark)
Lot. _____ Blk. _____ Sub. Name _____

4. USE:

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

5. TYPE OF WORK:

☒ 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 ft ³)	Placement method/procedure
ben/cement	30	170	62.4cu/ft	tremie
bentonite	0	30	1200lbs	dry pour

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
6"	+2	15	.250	steel	☒	☐	☐	☐
6"	15	215	sdr-17	pvc	☒	☐	☐	☐
6"	235	255	sdr-17	pvc	☒	☐	☐	☐

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

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method _____

Manufactured screen ☒ Y ☐ N Type pvc

Method of installation placed

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
215	235	.020	---	6"	pvc	sdr-17
255	335	.020	---	6"	pvc	sdr-17

Length of Headpipe _____ Length of Tailpipe _____

Packer ☐ Y ☒ N Type _____

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method
10/20 silica	170	335	6500lbs	poured

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) 148 Static water level (ft) 148
Water temp. (°F) 65degF Bottom hole temp. (°F) 72 degF
Describe access port well cap

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)
187ft	40gpm	480minutes

Test method:

Pump	Bailer	Air	Flowing artesian
☐	☐	☒	☐
☐	☐	☐	☐

Water quality test or comments: slight sulfur odor

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	6	sand		X
"	6	27	tan sandy clay		X
"	27	65	tan clay		X
"	65	67	sand		X
"	67	95	tan clay w/blue clay streaks		X
"	95	138	blue clay		X
"	138	148	sandy blue clay		X
"	148	215	blue clay w/ sand streaks	X	
"	215	220	fine black sand	X	
"	220	265	blue clay		X
"	265	284	blue clay w/ sand streaks	X	
"	284	286	blue clay		X
"	286	292	fine black sand	X	
"	292	301	blue clay		X
"	301	306	fine black sand	X	
"	306	314	blue clay		X
"	314	320	sand	X	
"	320	330	blue clay w/ sand streaks	X	
"	330	335	blue clay		X

Completed Depth (Measurable): 335ft

Date Started: Nov 21, 2012 Date Completed: Dec 1, 2012

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 Coprise Well Drilling Co. No. 409

*Principal Driller [Signature] Date Dec 3, 2012

*Driller [Signature] Date Dec 3, 2012

*Operator II _____ Date _____

Operator I _____ Date _____

* Signature of Principal Driller and rig operator are required.



4" HIGH CAPACITY PUMPS - 35 GPM

PERFORMANCE

