

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

A. GENERAL INFORMATIONPermit No: 57-11657

Exam Date: November 24, 2017

1. Current Owner: IVAN E CARSON
9358 WRIGHT RD
MELBA, ID 83641

Owner of Record Correct? Y XN
Address of Record Correct? XY N

Remarks:

New owner according to the 2017
Owyhee County Parcel Data:
ANNIE M VARNES
9358 WRIGHT RD
LOT 1 JAKUBOWSKI SUB 7 1N 3W
MELBA, ID 83641

3. SOURCE**TRIBUTARY**

Ground water

Method of Determination: discussion with owner, photos and aerial photography

Change in Source: Y XN**B. OVERLAP REVIEW**1. Other water rights with the same place of use: X NONE

The new land owner said she talked to the Opaline Irrigation District and found that she does not have access to water from their system. The place of use does fall within their service area boundary.

Water Right No.	Source	Purpose of Use	Basis
2-2072	Snake River	Irrigation	Decreed

Comments: There is a well on the property.

2. Other water rights with the same point of diversion: X NONE

Water Right No.	Source	Purpose of Use	Basis

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

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.	County
Ground water	4		SW	NW	7	1N	3W	Owyhee

Method of Determination: Conversation with the permit holder and aerial photography

Change in POD? XY N Amendment Required? Y X N

2.

PLACE OF USE: 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	
01N	03W	7							1.5 L 4										1.5

Total Acres: 1.5

Method of Determination: 2006, 2011, 2013, aerial photography

Change in POU? Y X N Amendment Required? Y X N

3. Delivery System Diagram Attached (optional). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.

 X Aerial Photo Attached (required for irrigation of 10+ acres).

 X Photo of Diversion and System Attached – permit holder sent photos

4. Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
		5			

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

D. FLOW MEASUREMENTS None taken

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

2. Measurements: _____

E. FLOW CALCULATIONS X Additional Computation Sheets Attached

1.5 acres X 0.03 = 0.05 cfs

Permit 0.05 cfs

Measured Method: none

Theoretical based on pump information provided by the new owner and the attached well log: 0.17 cfs

This rate would allow for 0.4 cfs for domestic use and the 0.05 cfs for irrigation.

License recommend for 0.05 cfs**F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.5 \text{ acres} \times 4.5 = 6.8 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.05 \times 260 \times 1.9835 = 25.8 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{6.8 \text{ AF}}$$

2. Volume Calculations for Other Uses: none

Recommended Volume 6.8 AF**G. PURPOSE OF USE**Irrigation ☒ Y ☐ N # Stock _____ Domestic # of Homes _____

Other: none

Change in Purpose of Use? ☐ Y ☒ X ☐ N

Method of Determination: Conversation with the permit holder and aerial photography

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

H. NARRATIVE/REMARKS/COMMENTS

I made attempts to contact permit holder Ivan Carson but did not reach him. Annie Varnes is the new owner of the property. According to Ms. Varnes there are 2 wells on the property. However, the well on west side of the property don't have enough pressure to provide water. A second well on the east side of the property, near the Opaline ditch has a 5 horse power pump and supplies water for both irrigation and in-house use.

Have conditions of permit approval been met? ☒ X Yes ☐ No**I. RECOMMENDATIONS****1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>
IRRIGATION	3/1 to 11/15	0.05 CFS
<u>Totals:</u>		0.05 CFS

2. Recommended Amendments☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ X None☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ X None

Other: none

J. AUTHENTICATIONField Examiner's Name Samuel Phil Date 11/29/2017

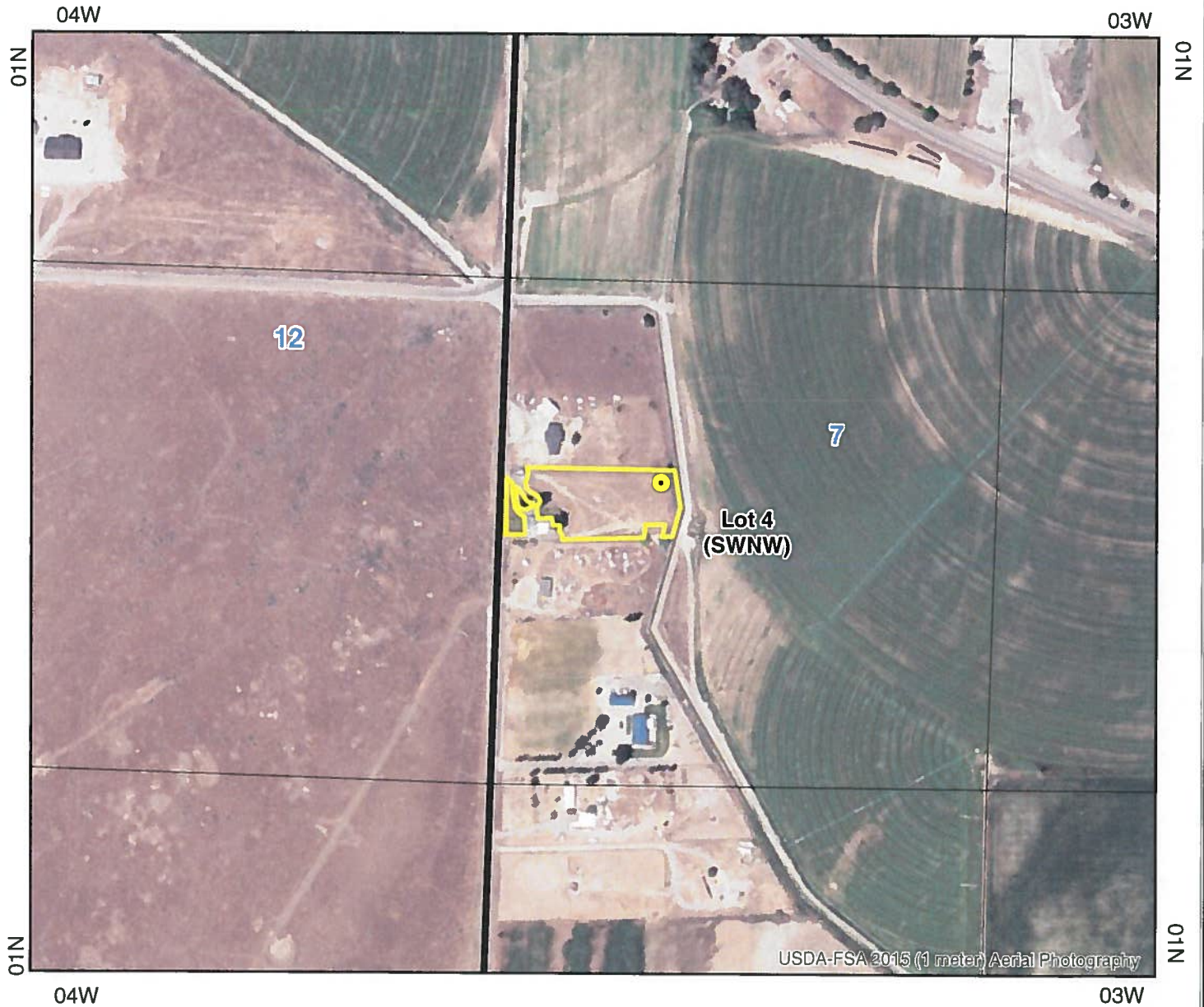
Reviewer _____ Date _____

State of Idaho
Department of Water Resources

Field Exam Map

57-11657

This map depicts the IRRIGATION place of use boundary and point of diversion 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



0 500 1,000 Feet

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 57-11657
 Reviewer: Sandra Thiel
 Date of Review: 11/22/2017

P/D No.:

PUMP HORSEPOWER
 BOOSTER HORSEPOWER

PUMPING LEVEL

DISCHARGE PRESSURE

RATE OF FLOW (cfs)

#1
5
0
70
40
0.19
85

#2
5
0
70
50
0.17
75

#3
5
0
70
60
0.15
66

Average

0.17

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:

11/22/2017 I talked to Annie Varnes and she said there two wells on the property. The well in front of the house has a 1 horse power pump and no pressure. She doesn't use that well. The second well is toward the back of the property next to the Opaline ditch. She said that it has a 5 horsepower pump. This well supplies in house use and irrigation for the property.

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. WELL TAG NO. D-0031354
DRILLING PERMIT NO. _____
Water Right or Injection Well No. 57-11657

2. OWNER:

Name Juan E Carson
Address 9358 Wright Rd
City Melba State ID Zip 83641

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub. or Directions to well.

Twp. 1 North ☒ or South ☐
Rge. 3 East ☐ or West ☒
Sec. 2 SW 1/4 or NW 1/4
Gov't Lot _____
County Owyhee
Lat: _____ Long: _____
Address of Well Site 9358 Wright Rd
City Melba, ID 83641

(Give at least name of road, Distance to Road or Landmark)
Lt. 1 Blk. _____ Sub. Name Jacobowski Sub.

4. USE:

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

5. TYPE OF WORK check all that apply

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____ (Replacement etc.)

6. DRILL METHOD:

☐ Air Rotary ☒ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
<u> Bentonite chip </u>	<u>0</u>	<u>22</u>	<u>2000 lb</u>	<u>dry pour</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 219
Was drive shoe seal tested? ☒ Y ☐ N How? barled hole dry

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>8</u>	<u>+2</u>	<u>219</u>	<u>250</u>	<u>steel</u>	☒	☐	☒	☐
<u>6</u>	<u>184</u>	<u>324</u>	<u>250</u>	<u>steel</u>	☐	☒	☒	☐

Length of Headpipe _____ Length of Tailpipe _____
Packer ☐ Y ☒ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____

Screen Type & Method of Installation _____

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

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

36 ft. below ground Artesian pressure _____ lb
Depth flow encountered _____ ft. Describe access port or control devices:
well cap - top of casing

Office Use Only
Well ID No. 817715
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 _____ 1/4 _____ 1/4 _____
Lat: _____ Long: _____

12. WELL TESTS:

Yield gal/min.	Drawdown	Pumping Level	Time
<u>5.5</u>	<u>34</u>	<u>70</u>	<u>2-hours</u>

Water Temp. 84° Bottom hole temp _____

Water Quality test or comments: 0-grains hardness

1 ppm Iron Depth first Water Encounter 90'

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>12</u>	<u>0</u>	<u>2</u>	<u>Top soil</u>		☒
<u>12</u>	<u>2</u>	<u>4</u>	<u>hard pan</u>		☒
<u>12</u>	<u>4</u>	<u>11</u>	<u>sand + gravel</u>		☒
<u>12</u>	<u>11</u>	<u>22</u>	<u>gravel</u>		☒
<u>8</u>	<u>22</u>	<u>38</u>	<u>brown clay</u>		☒
<u>38</u>	<u>90</u>	<u>90</u>	<u>blue clay</u>		☒
<u>90</u>	<u>91</u>	<u>91</u>	<u>brown sand - mucky</u>	☒	☒
<u>91</u>	<u>98</u>	<u>98</u>	<u>blue clay</u>		☒
<u>98</u>	<u>100</u>	<u>100</u>	<u>brown sand - mucky</u>	☒	☒
<u>100</u>	<u>172</u>	<u>172</u>	<u>blue clay</u>		☒
<u>172</u>	<u>224</u>	<u>224</u>	<u>gray clay</u>		☒
<u>224</u>	<u>287</u>	<u>287</u>	<u>gray clay - passing</u>		☒
<u>287</u>	<u>318</u>	<u>318</u>	<u>brown clay</u>		☒
<u>8</u>	<u>318</u>	<u>324</u>	<u>gray clay</u>		☒
<u>6</u>	<u>324</u>	<u>345</u>	<u>gray clay</u>		☒
<u>6</u>	<u>345</u>	<u>354</u>	<u>brown clay</u>		☒
<u>6</u>	<u>354</u>	<u>362</u>	<u>sandy gray clay</u>		☒
<u>6</u>	<u>362</u>	<u>366</u>	<u>Basalt + broken</u>	☒	☒
<u>6</u>	<u>366</u>	<u>368</u>	<u>gray clay</u>		☒

RECEIVED

SEP 01 2004

WATER RESOURCES
WESTERN REGION

Completed Depth 368 (Measurable)

Date: Started 6-23-04 Completed 8-21-04

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 Dodge Well Drilling Firm No. 399

Principal Driller [Signature] Date 8-30-04

Driller or Operator II _____ Date _____

Operator I _____ Date _____

Principal Driller and Rig Operator Required.
Operator I must have signature of Driller/Operator II.

FORWARD WHITE COPY TO WATER RESOURCES