

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

A. GENERAL INFORMATIONPermit No: 65-23544

Exam Date: 07/28/2015

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? X Y N
- 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: MICHAEL THORNTON OR GINA THORNTON
PO BOX 83

HORSHOE BEND ID 83629

Owner of Record Correct? X Y N

Taxlot information lists High Desert Ranch LLC as owners of this property.

Idaho SOS Web site list Aaron Thornton as the Manager of High Desert Ranch LLC

Address of Record Correct? X Y N

If No: Address

3. Beneficial Use Fees have been paid: X Y N Receipt No: C100708

4. SOURCE

GROUND WATER

Method of Determination: Permit and WR file

Change in Source: Y X N

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
65-2590D	Payette River	Irrigation	Decree
65-11272D	Payette River	Irrigation	Decree

Comments: The review of the application for this permit indicated that these two rights are for adjacent lands. However a review of the adjudication back file for 65-11272 showed that Water right 65-2590D is an irrigation right for 3.8 acres. This right completely overlaps the POU for this permit. 65-11272D is an irrigation rights for 10.7 acres. 1.2 acres of this right overlaps this permit's POU. These are the remainder of Surface water rights that had several portions split from them. The original claim numbers were 65-2590 and 65-11272.

65-590C, 65-11272C and 65-22885 is for the property north of this property.

65-23295 and 65-23297 are for acreages south of this property.

65-2590B is for the property located two lots north of this property.

65-590E is for the property located West of this property.

I utilized the POU comparison query and ArcMap to verify my results.

2. Other water rights with the same point of diversion: NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments:

This property has it's own well.

65-22885 is for the property located north of this property.

65-2590B is for the property located two lots north of this property.

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

Source	Govt.								
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	Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Ground Water	1		SE	SE	24	07N	01E	B.M.	GEM

Method of Determination: Water Permit and file.

Change in POD? _____N Amendment Required? _____N

2. **PLACE OF USE:** 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	
07N	01E	24															.5	4.5	5.0
		Lot #															L1	L1	
Total Acres =																			5.0

Method of Determination: Water right file and aerial imagery

Change in POU? _____N Amendment Required? _____N

4. Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
D0047711	Unk	4	Unk	Unk	Unk

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

D. FLOW MEASUREMENTS

No measurements were taken in-house review

E. FLOW CALCULATIONS

Measured Method:

0.02 cfs = 1 inch per acre (IDWR standard) 5 acres(0.02 cfs) = 0.10 cfs at 1 inch per acre

According to application they installed a 4hp pump. Per IDWR standard: Assume pump efficiency = 0.7 (70%) and PSI = 30 psi for small irrigation. Lift estimated from Contour Elevations (GIS visual, 40 ft. min. unit) between pump and field = 40.

$$Q = (8.8 \times \text{HP} \times \text{EFF}) / (\text{Lift} + (\text{PSI} \times 2.31)) = (8.8 \times 4 \times 0.7) / (67 + (30 \times 2.31)) = 24.64 / 136.3 = 0.18 \text{ cfs}$$

Permit allowed = 0.10 cfs

License recommend for 0.10 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{\text{I.R.}} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 5 \times 4.5 = 22.5 \text{ af}$$

$$V_{\text{D.R.}} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.10 \times 260 \times 1.9835 = 51.6$$

$$V = \text{Smaller of } V_{\text{I.R.}} \text{ and } V_{\text{D.R.}} = 22.5 \text{ af}$$

2. Volume Calculations for Other Uses: NA

G. PURPOSE OF USE

Irrigation ☒ X ☐ Y ☐ N # Stock _____ Domestic # of Homes _____

Other: < >

Change in Purpose of Use? ☐ Y ☒ X ☐ N

Method of Determination: Water Right File and Permit

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

H. NARRATIVE/REMARKS/COMMENTS

- This permit is in the name of Michael or Gina Thornton. The tax lot data shows that the property is owned by High Desert Ranch LLC. Which is owned by the Thornton family.
- Our satellite imagery was not current enough to show any signs of irrigation. However, I used Google Earth's 2015 imagery and was able to see where they were attempting to establish a pasture at this location.

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

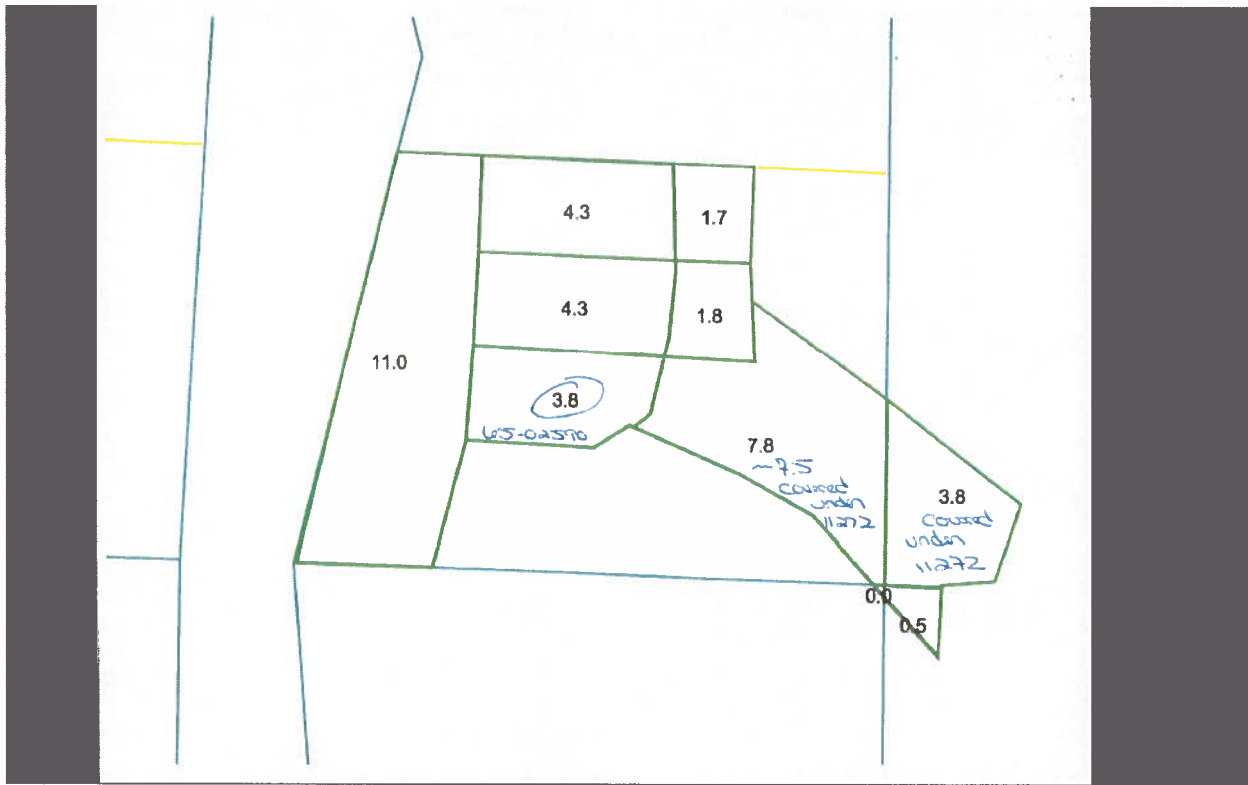
<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Irrigation	03/01 to 11/15	0.10 CFS	22.5 AF
<u>Totals:</u>		0.10 CFS	22.5 AF

2. No Recommended Amendments**J. AUTHENTICATION**Field Examiner's Name Clay Webster Date 8/7/2015

Reviewer _____ Date _____

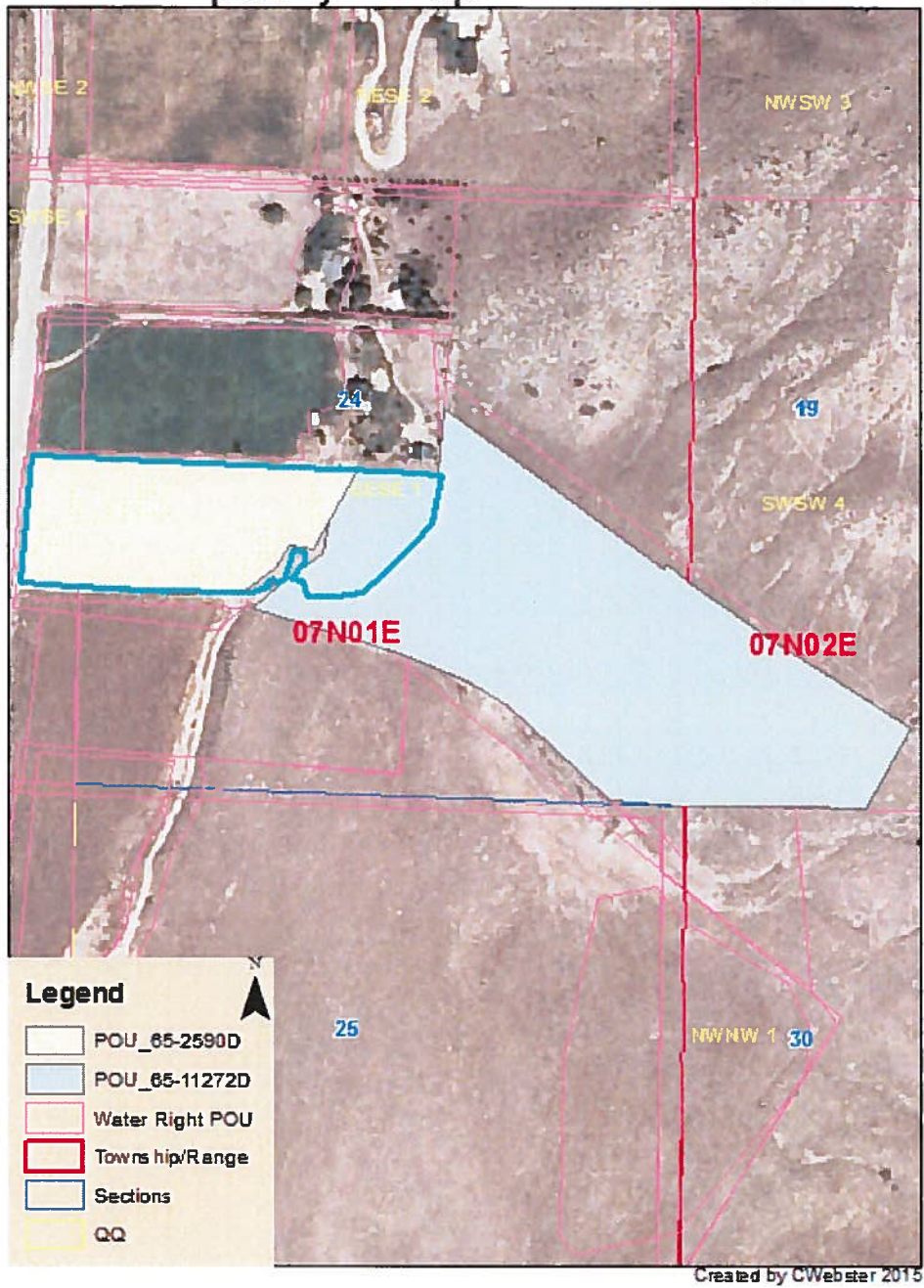


Google Earth 2015 aerial photo



From adjudication claim backfile for 65-11272

Overlap analysis map for Permit 65-23544



No. W 123252	Due no later than Mar 31, 2015 Annual Report Form		2. Registered Agent and Address (NO PO BOX)
Return to: SECRETARY OF STATE 700 WEST JEFFERSON PO BOX 83720 BOISE, ID 83720-0080 NO FILING FEE IF RECEIVED BY DUE DATE			UNITED STATES CORPORATION AGEN 950 BANNOCK ST STE 1100 BOISE 83702 3. <u>New</u> Registered Agent Signature:*
4. Limited Liability Companies: Enter Names and Addresses of at least one Member or Manager.			
Office Held MANAGER	Name AARON THORNTON	Street or PO Address 1417 W WILDWOOD APT 102	City State Country Postal Code MERIDIAN ID USA 83646
5. Organized Under the Laws of: ID W 123252	6. Annual Report must be signed.* Signature: Aaron Thornton Date: 01/27/2015 Name (type or print): Aaron Thornton Title: Manager		
Processed 01/27/2015	* Electronically provided signatures are accepted as original signatures.		