

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 15-7190

Exam Date: 8/29/2012

1. Current Owner: DORIS D KOONTZ
3325 N DEEP CREEK RD
MALAD CITY ID 83252
(208)766-2844

And

THOMAS S KOONTZ
3325 N DEEP CREEK RD
MALAD CITY ID 83252
(208)766-2844

2. Accompanied by: Thomas Koontz

Phone No:

Address:

Relationship to Permit Holder: Owner

3. **SOURCE**

TRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 15-2045B and Malad Valley Irrigation Shares.
2. Other water rights with the same point of diversion: No

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER

SW1/4NE1/4

Sec. 3, Twp 14S, Rge 36E, B.M.

ONEIDA County

Method of Determination: GPS, Ariel Photography

2.

PLACE OF USE: IRRIGATION

Tw	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
14S	36E	3			28.6											18.8			47.4

Total Acres: 47.4

Method of Determination: Ariel Photography, GPS

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>
	Propane Motor	40		Randolph J20	C206103

*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>
Portable Flowmeter	FSC		Fuji	S10A1-00Y	A0L5539T	5/30/2012

2. Measurements: A ten minute flow meter reading was performed. Maximum instantaneous flow rate was 428.2 gpm or 1.0 cfs. Pressure was at 40 psi.

E. FLOW CALCULATIONS☒ Additional Computation Sheets Attached

Measured Method:

Water right = 1.2 cfs

Measured flow = 1.0 cfs.

1.0 cfs = .021097

47.4 acres

.02 x 47.4 acres = .95cfs maximum allowed cfs for irrigation.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = 47.4(\text{Acres Irrigated}) \times 3.5(\text{Irrigation Requirement}) = 165.9 \text{ af}$$

$$V_{D.R.} = 1.0[\text{Diversion Rate (cfs)}] \times 214 (\text{Days in Irrigation season}) \times 1.9835 = 424.5$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 165.9 \text{ af}$$

2. Volume Calculations for Other Uses: none

G. NARRATIVE/REMARKS/COMMENTS

Field exam was completed on 8/29/2012. The pump was powered by a 40 hp propane engine. A ten minute flow test was done which yielded a maximum rate of 428.2 gpm. (0.95 cfs)
 System includes two small pivots and hand lines. System normally runs one pivot and handlines.
 Original permit had more irrigated land but about 20 acres has been sold off to new owner. Permit will be licensed for currently owned land.

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>
IRRIGATION	04/01 to 10/31	.95 CFS	165.90 AF
<u>Totals:</u>		.95 CFS	165.90 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 Scott Bergin Date 11/21/12
 Reviewer James Cefato Date 12/12/2012

Idaho Department of Water Resources



Water Right
15-7190
(Irrigation)



- Point of Diversion
- Mainlines
- Place of Use
- Township/Range
- Sections
- QQ

**Onieda County
IDWR Basin 15**

Prepared by Scott Bergendorf

2010 Aerial Photography

0 0.05 0.1 0.2 Miles



15-7190	VELOCITY ft/s	FLOW RATE gal/min	+TOTALIZER gal						
8/29/2012 12:41	4.65	380.364	104109.3	8/29/2012 12:46	4.92	402.408	106196.2		
8/29/2012 12:41	4.735	387.279	104174.5	8/29/2012 12:47	4.979	407.2	106265.1		
8/29/2012 12:41	4.658	380.992	104238.7	8/29/2012 12:47	5.015	410.21	106333.4		
8/29/2012 12:41	4.634	379.036	104303.8	8/29/2012 12:47	5.004	409.298	106402.1		
8/29/2012 12:42	4.671	382.063	104365	8/29/2012 12:47	5.012	409.954	106467.6		
8/29/2012 12:42	4.708	385.055	104429.1	8/29/2012 12:47	4.971	406.615	106537.1		
8/29/2012 12:42	4.588	375.273	104493.9	8/29/2012 12:48	5.088	416.135	106606.4		
8/29/2012 12:42	4.698	384.297	104556.8	8/29/2012 12:48	5.085	415.875	106676		
8/29/2012 12:42	4.701	384.514	104621.9	8/29/2012 12:48	5.027	411.161	106744.7		
8/29/2012 12:42	4.751	388.56	104682.7	8/29/2012 12:48	5.041	412.295	106814.9		
8/29/2012 12:43	4.741	387.802	104748.8	8/29/2012 12:48	5.064	414.201	106952		
8/29/2012 12:43	4.746	388.224	104814	8/29/2012 12:48	5.099	417.065	107021.2		
8/29/2012 12:43	4.789	391.693	104878.9	8/29/2012 12:49	5.03	411.438	107087.5		
8/29/2012 12:43	4.8	392.583	104944.5	8/29/2012 12:49	4.923	402.693	107155.7		
8/29/2012 12:43	4.836	395.513	105011.2	8/29/2012 12:49	5.042	412.362	107225.1		
8/29/2012 12:43	4.787	391.516	105076.6	8/29/2012 12:49	5.088	416.126	107294.4		
8/29/2012 12:44	4.851	396.736	105139.5	8/29/2012 12:49	5.085	415.947	107363.6		
8/29/2012 12:44	4.976	407.009	105207.3	8/29/2012 12:49	5.002	409.1	107433.5		
8/29/2012 12:44	4.833	395.286	105273.6	8/29/2012 12:50	5.086	415.967	107502.4		
8/29/2012 12:44	4.864	397.861	105341.2	8/29/2012 12:50	5.11	417.929	107571.7		
8/29/2012 12:44	4.845	396.301	105407.4	8/29/2012 12:50	5.075	415.068	107640.8		
8/29/2012 12:44	4.817	394.021	105473	8/29/2012 12:50	5.055	413.438	107706.7		
8/29/2012 12:45	4.818	394.043	105536.1	8/29/2012 12:50	5.047	412.824	107775.3		
8/29/2012 12:45	4.818	394.109	105602.3	8/29/2012 12:50	5.002	409.086	107845.6		
8/29/2012 12:45	4.774	390.473	105669.7	8/29/2012 12:51	5.043	412.49	107913.7		
8/29/2012 12:45	4.775	390.58	105734.9	8/29/2012 12:51	5.084	415.863	107982.9		
8/29/2012 12:45	4.835	395.472	105800.3	8/29/2012 12:51	5.03	411.394	108051.8		
8/29/2012 12:45	4.77	390.125	105867.5	8/29/2012 12:51	5.08	415.516	108121.7		
8/29/2012 12:46	4.844	396.221	105932.8	8/29/2012 12:51	5.062	414.005	108190.8		
8/29/2012 12:46	4.897	400.537	105999.4	8/29/2012 12:51	4.997	408.728	108259.4		
8/29/2012 12:46	4.797	392.316	106065.5	8/29/2012 12:52	5.065	414.271	108329.6		
8/29/2012 12:46	4.799	392.56	106128.2	8/29/2012 12:52	5.188	424.307	108395.5		
8/29/2012 12:46				8/29/2012 12:52	5.208	426.004	108467.8		

4128.2 max flow rate
or
1.0 cfs

8/29/2012 12:52	5.178	423.534	108538.9			
8/29/2012 12:52	5.136	420.118	108608.9	8/29/2012 12:58	5.133	419.819 110922.5
8/29/2012 12:52	5.108	417.799	108678.9	8/29/2012 12:58	5.136	420.1 110992.6
8/29/2012 12:52	5.163	422.271	108750.5	8/29/2012 12:58	5.119	418.674 111064.5
8/29/2012 12:53	5.153	421.442	108820.3	8/29/2012 12:58	5.181	423.779 111134.8
8/29/2012 12:53	5.22	426.917	108887.6	8/29/2012 12:58	5.165	422.428 111204.7
8/29/2012 12:53	5.149	421.163	108959.3	8/29/2012 12:58	5.109	417.834 111272
8/29/2012 12:53	5.049	412.98	109028.7	8/29/2012 12:59	5.093	416.596 111342.1
8/29/2012 12:53	5.155	421.605	109100.1	8/29/2012 12:59	5.13	419.568 111413.4
8/29/2012 12:53	5.177	423.408	109170.6	8/29/2012 12:59	5.133	419.875 111483.4
8/29/2012 12:54	5.136	420.051	109240.8	8/29/2012 12:59	5.151	421.323 111553.9
8/29/2012 12:54	5.235	428.17	109308.6	8/29/2012 12:59	5.193	424.774 111624.8
8/29/2012 12:54	5.175	423.31	109379.6	8/29/2012 12:59	5.146	420.879 111696.8
8/29/2012 12:54	5.144	420.726	109451.5	8/29/2012 13:00	5.154	421.523 111767.2
8/29/2012 12:54	5.095	416.767	109520.6	8/29/2012 13:00	5.138	420.236 111837.2
8/29/2012 12:54	5.149	421.159	109590.7	8/29/2012 13:00	5.121	418.822 111906.8
8/29/2012 12:55	5.095	416.695	109660.4	8/29/2012 13:00	5.19	424.493 111973.8
8/29/2012 12:55	5.128	419.461	109731.3	8/29/2012 13:00	5.149	421.15 112045.7
8/29/2012 12:55	5.131	419.706	109801.2	8/29/2012 13:00	5.131	419.667 112115.4
8/29/2012 12:55	5.191	424.592	109872	8/29/2012 13:01	5.13	419.589 112185.1
8/29/2012 12:55	5.175	423.258	109942.5	8/29/2012 13:01	5.129	419.526 112254.8
8/29/2012 12:55	5.137	420.149	110010	8/29/2012 13:01	5.101	417.255 112325.7
8/29/2012 12:56	5.084	415.84	110081.3			
8/29/2012 12:56	5.11	417.945	110150.6			
8/29/2012 12:56	5.045	412.619	110220.4			
8/29/2012 12:56	5.14	420.419	110289.7			
8/29/2012 12:56	5.146	420.897	110361.4			
8/29/2012 12:56	5.088	416.134	110431.7			
8/29/2012 12:57	5.155	421.626	110501.9			
8/29/2012 12:57	5.149	421.16	110572.2			
8/29/2012 12:57	5.181	423.765	110640			
8/29/2012 12:57	5.164	422.378	110710			
8/29/2012 12:57	5.162	422.188	110782			
8/29/2012 12:57	5.191	424.604	110852.2			