

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 15-7224

Exam Date: 8/26/2012

1. Current Owner: DAVIS FARMS LTD
C/O GARY DAVIS
3190 W 2000 N
MALAD CITY ID 83252
(208)766-4292
2. Accompanied by: Gary Davis
Phone No:
Address: *Same as above*
Relationship to Permit Holder: Owner

3. SOURCE

GROUND WATER

TRIBUTARY**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: *Shares in Malad Valley Irrigation*
2. Other water rights with the same point of diversion: No

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER

SE1/4NE1/4

Sec. 30, Twp 14S, Rge 36E, B.M.

ONEIDA County

Method of Determination: Ariel Photography, GIS

2.

PLACE OF USE:

IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
14S	36E	30	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
						30.0									11.0	21.4	23.1	11.0	96.5

Total Acres: 96.5

Method of Determination: Ariel Photography, GIS

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 Size</u>
A0015868	350 Cummins Diesel Motor			De Ram	306077

*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 2075.5 gpm or 4.6 cfs. Pressure was at 0 PSI because of the open discharge system.

E. FLOW CALCULATIONS☒ Additional Computation Sheets Attached

Measured Method:

Water right 15-7224 = 2 cfs

Measured flow (maximum instantaneous rate) = 4.6 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = 96.5(\text{Acres Irrigated}) \times 3.5 (\text{Irrigation Requirement}) = 337.8$$

$$V_{D.R.} = 2 [\text{Diversion Rate (cfs)}] \times 214 (\text{Days in Irrigation season}) \times 1.9835 = 848.9$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 337.8$$

2. Volume Calculations for Other Uses: none

G. NARRATIVE/REMARKS/COMMENTS

Field exam for this permit was done on 8/26/2012. The pump is powered by a diesel engine. A ten minute flow test was done which yielded a maximum rate of 2075.5 gpm.

System has one small pivot and several short hand lines. Most of the acres are irrigated by flood irrigation. This is done in part with shares from the Malad Valley Irrigation District and in part by an open discharge from the well to ditch.

Permit contains condition 065 which requires full allotment of surface water in conjunction of groundwater. Owner claims to use between 24 and 32 shares of surface water with groundwater as supplement.

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	2.000 CFS	337.8 AF
<u>Totals:</u>		2.000 CFS	337.80 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 Sam Begue Date 10/2/12
 Reviewer James Cefalo Date Oct 5, 2012



Idaho Department of Water Resources



Water Right
15-7224
(Irrigation)

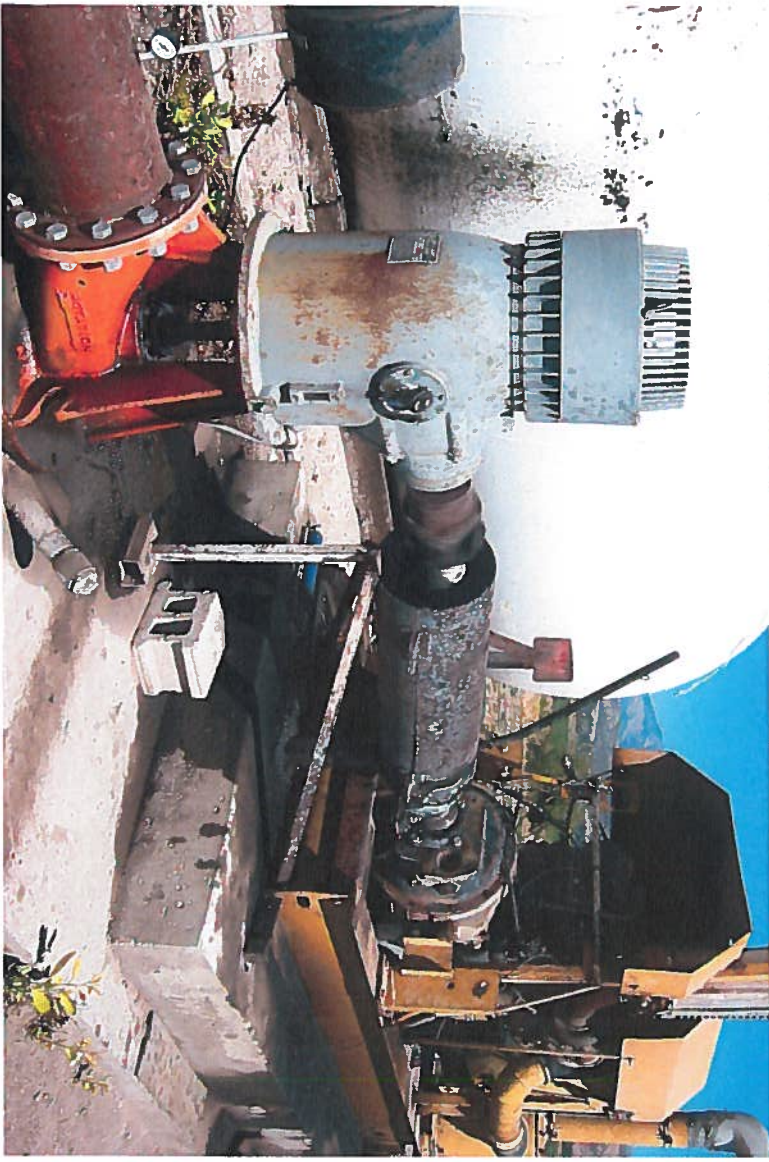


- POD
- Ditches
- Main lines
- Place of Use
- Township/Range
- Sections
- QQ

Onieda County
IDWR Basin 15

Prepared by Scott Bergendorf
2010 Aerial Photography





15-7224	'VELOCITY ft/s	'FLOW RATE gal/min	'TOTALIZER gal						
8/29/2012 14:31	7.991	2075.487	113554.9		8/29/2012 14:36	7.956	2066.276	115051.2	
8/29/2012 14:31	7.954	2065.812	113900.3		8/29/2012 14:36	7.956	2066.276	115051.2	
8/29/2012 14:31	7.906	2053.347	114243.7		8/29/2012 14:36	7.956	2066.276	115051.2	
8/29/2012 14:31	7.858	2040.83	114584.6		8/29/2012 14:37	7.956	2066.276	115051.2	
8/29/2012 14:31	7.945	2063.477	114934.2		8/29/2012 14:37	7.956	2066.276	115051.2	
8/29/2012 14:32	7.954	2065.915	115051.2		8/29/2012 14:37	7.956	2066.276	115051.2	
8/29/2012 14:32	7.955	2066.231	115051.2		8/29/2012 14:37	7.956	2066.276	115051.2	
8/29/2012 14:32	7.956	2066.272	115051.2		8/29/2012 14:37	7.956	2066.276	115051.2	
8/29/2012 14:32	7.956	2066.276	115051.2		8/29/2012 14:38	7.956	2066.276	115051.2	
8/29/2012 14:32	7.956	2066.276	115051.2		8/29/2012 14:38	7.956	2066.276	115051.2	
8/29/2012 14:33	7.956	2066.276	115051.2		8/29/2012 14:38	7.956	2066.276	115051.2	
8/29/2012 14:33	7.956	2066.276	115051.2		8/29/2012 14:38	7.956	2066.276	115051.2	
8/29/2012 14:33	7.956	2066.276	115051.2		8/29/2012 14:39	7.956	2066.276	115051.2	
8/29/2012 14:33	7.956	2066.276	115051.2		8/29/2012 14:39	7.956	2066.276	115051.2	
8/29/2012 14:33	7.956	2066.276	115051.2		8/29/2012 14:39	7.956	2066.276	115051.2	
8/29/2012 14:34	7.956	2066.276	115051.2		8/29/2012 14:39	7.956	2066.276	115051.2	
8/29/2012 14:34	7.956	2066.276	115051.2		8/29/2012 14:39	7.956	2066.276	115051.2	
8/29/2012 14:34	7.956	2066.276	115051.2		8/29/2012 14:39	7.956	2066.276	115051.2	
8/29/2012 14:34	7.956	2066.276	115051.2		8/29/2012 14:40	7.956	2066.276	115051.2	
8/29/2012 14:34	7.956	2066.276	115051.2		8/29/2012 14:40	7.956	2066.276	115051.2	
8/29/2012 14:34	7.956	2066.276	115051.2		8/29/2012 14:40	7.956	2066.276	115051.2	
8/29/2012 14:35	7.956	2066.276	115051.2		8/29/2012 14:40	7.956	2066.276	115051.2	
8/29/2012 14:35	7.956	2066.276	115051.2		8/29/2012 14:40	7.956	2066.276	115051.2	
8/29/2012 14:35	7.956	2066.276	115051.2		8/29/2012 14:40	7.956	2066.276	115051.2	
8/29/2012 14:35	7.956	2066.276	115051.2		8/29/2012 14:41	7.956	2066.276	115051.2	
8/29/2012 14:35	7.956	2066.276	115051.2		8/29/2012 14:41	7.956	2066.276	115051.2	
8/29/2012 14:36	7.956	2066.276	115051.2		8/29/2012 14:41	7.956	2066.276	115051.2	
8/29/2012 14:36	7.956	2066.276	115051.2		8/29/2012 14:41	7.956	2066.276	115051.2	
8/29/2012 14:36	7.956	2066.276	115051.2		8/29/2012 14:41	7.956	2066.276	115051.2	
8/29/2012 14:36	7.956	2066.276	115051.2		8/29/2012 14:41	7.956	2066.276	115051.2	

Maximum instantaneous flow
4.6 gfs