

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-32108

Exam Date: 9/20/2012

1. Current Owner: CORTLAND WALKER
1300 S HEIDI PL
MERIDIAN ID 83642
(208) 941-2255
2. Accompanied by: Mr. Walker
Phone No:
Address:
Relationship to Permit Holder: same

3. SOURCE TRIBUTARY
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Nampa Meridian Irrigation District
2. Other water rights with the same point of diversion: none

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

GROUND WATER NE1/4NE1/4 Sec. 8, Twp 03N, Rge 01W, B.M.
CANYON County

Method of Determination: GARMIN GPS 43.61716, -116.4738

2.

PLACE OF USE: IRRIGATION

TwpRge Sec	NE				NW				SW				SE				Totals
03N01W 8	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	4.6
	4.6																

Total Acres: 4.6

Method of Determination:

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>
Well	none	n/a	n/a	none	n/a

*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>
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2. Measurements: none taken

E. FLOW CALCULATIONS _____ Additional Computation Sheets Attached

Measured Method: none

[1] well log information is that the well flowed 300 gpm. $300 \text{ gpm} / 448.8 = .67 \text{ cfs}$

[2] 2" steel pipe from well. Per IDWR reference, flow through 2" pipe under low pressure is 0.11 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{\text{I.R.}} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 4.6 \times 4.5 = 20.7 \text{ afa}$$

$$V_{\text{D.R.}} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.14 \times 260 \times 1.9835 = 72.2 \text{ afa}$$

$$V = \text{Smaller of } V_{\text{I.R.}} \text{ and } V_{\text{D.R.}} = 20.7 \text{ af}$$

2. Volume Calculations for Other Uses: not applicable

G. NARRATIVE/REMARKS/COMMENTS

The permit was issued for five acres of irrigation and internal domestic use in one home from an artesian well drilled in 1981. Mr. Walker accompanied me on the field exam. The well is 6" in diameter, and according to the well log, flows 300 gpm. The well is 355 feet deep.

In the past, the well was used by the prior owner for a heat pump, and to irrigate 40 acres. There is a ditch that was used to convey the water for irrigation and the heat pump for the house located about 0.2 miles northwest of the well. Mr. Walker planned to build a house on the parcel. The house was not built.

Water flows through a 2" steel pipe from the well, and then to 4" PVC pipe. Mr. Walker stated that from the wellhouse, water flows to buried pipe that is located roughly along the ditch and then is plumbed aboveground in the northwest corner of the property. He is not sure if the pipe diameter is 3" or 4". Trees along the west property line are gravity irrigated. Gated pipe has also been used for irrigation. The property was not being irrigated the day of the exam. About 4.6 acres is irrigable. Mr. Walker stated the last time it was irrigated was about 2 years ago, for a large 6 family community garden. Nampa Meridian Irrigation District water is used north of the ditch.

A flow calculation using the 300 gpm from the well logs yields a flow of 0.67 cfs. Flow through a 2" pipe under low pressure is 0.11 cfs. The IDWR standard 0.03 cfs per acre x 4.6 acres is 0.14 cfs, and this is the quantity recommended for licensing.

Volume recommended for licensing is 20.7 afa, the smaller of the Vdr and Vir calculations. The domestic use should be deleted and not licensed.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS

Recommended Amount	<u>0.14</u> cfs
1) Permit amount	<u>0.15</u> cfs
2) Beneficial use limit	<u>0.15</u> cfs
3) System measurement	<u>0.67</u> cfs
4) Proof fee amount	<u>0.20</u> cfs

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	0.140 CFS	20.7 AF
	<u>Totals:</u>	0.140 CFS	20.7 AF

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 ___ Other

I. AUTHENTICATION

Field Examiner's Name Wickie Unsiel Date 2-7-13

Reviewer _____ Date _____



63-32108 - map of POU and POU. POU outlined in yellow.

63-32108 – Field exam photographs



6" artesian well inside pump house.



Steel and PVC piping from well.



From wellhouse, looking west at the place of use and along ditch that was historically used to transport the well water to 40 acres.

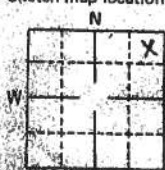


From area of the wellhouse, looking south west at place of use.

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

RECEIVED

1. WELL OWNER Name <u>Carlos Loveland</u> Address <u>7750 S. 10th St.</u> Owner's Permit No. _____		7. WATER LEVEL Static water level _____ feet below land surface Flowing? ☒ Yes ☐ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ OF. Quality _____																																																																																																																																																												
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____		8. WELL TEST DATA ☐ Pump ☐ Baller ☒ Air ☐ Other _____																																																																																																																																																												
3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)		9. LITHOLOGIC LOG <table border="1"> <thead> <tr> <th>Hole Diam.</th> <th>Depth From</th> <th>To</th> <th>Material</th> <th>Water Yes/No</th> </tr> </thead> <tbody> <tr><td>7"</td><td>0</td><td>2</td><td>Brown top soil</td><td></td></tr> <tr><td>9"</td><td>2</td><td>10</td><td>Brown clay</td><td></td></tr> <tr><td>9"</td><td>10</td><td>20</td><td>Brown sandy clay</td><td></td></tr> <tr><td>6"</td><td>20</td><td>50</td><td>"</td><td></td></tr> <tr><td>6"</td><td>50</td><td>62</td><td>Brown sand</td><td></td></tr> <tr><td>6"</td><td>62</td><td>64</td><td>Brown clay</td><td></td></tr> <tr><td>6"</td><td>64</td><td>98</td><td>Brown clay</td><td></td></tr> <tr><td>6"</td><td>98</td><td>110</td><td>Brown clay</td><td></td></tr> <tr><td>6"</td><td>110</td><td>185</td><td>Brown sandy clay</td><td></td></tr> <tr><td>6"</td><td>185</td><td>190</td><td>Brown clay</td><td></td></tr> <tr><td>6"</td><td>190</td><td>210</td><td>Brown clay</td><td></td></tr> <tr><td>6"</td><td>210</td><td>212</td><td>Brown clay</td><td></td></tr> <tr><td>6"</td><td>212</td><td>240</td><td>Brown heavy sand</td><td></td></tr> <tr><td>6"</td><td>240</td><td>244</td><td>Brown clay</td><td></td></tr> <tr><td>6"</td><td>244</td><td>250</td><td>Brown sand</td><td></td></tr> <tr><td>6"</td><td>250</td><td>264</td><td>Brown sandy sand</td><td></td></tr> <tr><td>6"</td><td>264</td><td>276</td><td>Brown clay</td><td></td></tr> <tr><td>6"</td><td>276</td><td>286</td><td>Brown light sand</td><td></td></tr> <tr><td>6"</td><td>286</td><td>288</td><td>Brown clay</td><td></td></tr> <tr><td>6"</td><td>288</td><td>308</td><td>Brown heavy sand</td><td></td></tr> <tr><td>6"</td><td>308</td><td>312</td><td>Brown clay</td><td></td></tr> <tr><td>6"</td><td>312</td><td>320</td><td>Brown sand</td><td></td></tr> <tr><td>6"</td><td>320</td><td>323</td><td>Brown clay</td><td></td></tr> <tr><td>6"</td><td>323</td><td>335</td><td>Brown sandy sand</td><td></td></tr> <tr><td>6"</td><td>335</td><td>339</td><td>Brown clay</td><td></td></tr> <tr><td>6"</td><td>339</td><td>342</td><td>Brown sand</td><td></td></tr> <tr><td>6"</td><td>342</td><td>349</td><td>Brown clay</td><td></td></tr> <tr><td>6"</td><td>349</td><td>350</td><td>Brown heavy sand</td><td></td></tr> <tr><td>6"</td><td>350</td><td>358</td><td>Brown clay</td><td></td></tr> <tr><td>6"</td><td>358</td><td></td><td>Brown white sand</td><td></td></tr> </tbody> </table>		Hole Diam.	Depth From	To	Material	Water Yes/No	7"	0	2	Brown top soil		9"	2	10	Brown clay		9"	10	20	Brown sandy clay		6"	20	50	"		6"	50	62	Brown sand		6"	62	64	Brown clay		6"	64	98	Brown clay		6"	98	110	Brown clay		6"	110	185	Brown sandy clay		6"	185	190	Brown clay		6"	190	210	Brown clay		6"	210	212	Brown clay		6"	212	240	Brown heavy sand		6"	240	244	Brown clay		6"	244	250	Brown sand		6"	250	264	Brown sandy sand		6"	264	276	Brown clay		6"	276	286	Brown light sand		6"	286	288	Brown clay		6"	288	308	Brown heavy sand		6"	308	312	Brown clay		6"	312	320	Brown sand		6"	320	323	Brown clay		6"	323	335	Brown sandy sand		6"	335	339	Brown clay		6"	339	342	Brown sand		6"	342	349	Brown clay		6"	349	350	Brown heavy sand		6"	350	358	Brown clay		6"	358		Brown white sand	
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4. METHOD DRILLED ☒ Rotary ☒ Air ☐ Hydraulic ☐ Reverse rotary ☐ Cable ☐ Dug ☐ Other _____																																																																																																																																																														
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ Thickness <u>250</u> inches Diameter <u>6</u> inches From <u>1</u> feet To <u>355</u> feet Was casing drive shoe used? ☒ Yes ☐ No Was a packer or seal used? ☐ Yes ☒ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch Size of perforation _____ inches by _____ inches Number _____ From _____ To _____ _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet Well screen installed? ☐ Yes ☒ No Manufacturer's name _____ Type _____ Model No. _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☒ No ☐ Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth <u>20</u> Material used in seal: ☐ Cement grout ☐ Puddling clay ☒ Well cuttings Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing ☒ Overbore to seal depth Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent ☐ Cemented between strata Describe access port _____																																																																																																																																																														
6. LOCATION OF WELL Sketch map location must agree with written location.  Subdivision Name _____ Lot No. _____ Block No. _____ County <u>CONTOUR</u> <u>N. 1/4 Sec. 8 T. 3 N. R. 1 E. W.</u>		10. Work started <u>1/27/81</u> finished <u>2/10/81</u>																																																																																																																																																												
11. DRILLER'S CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>W. R. Hines</u> Firm No. _____ Address <u>4105 N. 10th St.</u> Date <u>2/10/81</u> Signed by (Firm Official) _____ and (Operator) _____																																																																																																																																																														

USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT

JUL 16 2004

WATER RESOURCES
WESTERN REGION



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region • 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

September 14, 2012

Cortland Walker
1300 S. Heidi Place
Meridian, ID 83642

Re Permits To Appropriate Water Nos. 63-32344 and 63-32108

Dear Mr. Walker:

Permit no. 63-32344 referenced above was issued to you for domestic use from ground water. The domestic use is the irrigation of four lawns, approximately 1.2 acres, associated with four homes in the Woodward Estates Subdivision.

Permit no. 63-32108 was issued for domestic use in one home and five acres of irrigation from an artesian well. The place of use is southwest of the intersection of Cherry Lane and County Line Rd.

This letter is to request that you call me to schedule the field exams for these permits. The field exams are required by Idaho law before a permit can be licensed at which time it becomes a water right. The license is the end product needed for continued water use.

Please call me at 208.334.2190, by September 28, 2012, to set an appointment for the exam. Please have ready information regarding diversion and delivery works on the two sites, such as pump and motor specs, at that time in preparation for the exam. Thank you.

Sincerely,

Vicky Music
Sr. Water Resource Agent