

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-31394

Exam Date: 8/30/2012

1. Current Owner: RONALD I BLICKENSTAFF
7488 LYNWOOD RD
NAMPA ID 83686
(208)466-3828

2. Accompanied by: RON BLICKENSTAFF
Phone No: Same
Address: Same
Relationship to Permit Holder: Same

3. SOURCE

GROUND WATER

TRIBUTARY

N/A

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Boise-Kuna Irrigation Dist. – surface water
2. Other water rights with the same point of diversion: 63-31395

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

GROUND WATER

NE1/4SE1/4

Sec. 27, Twp 02N, Rge 02W, B.M.

CANYON County

Method of Determination: GPS Location N43° 28.786' W116° 33.484' Garmin model GPSmap 76 Datum NAD 83

2. PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
02N	02W	27			24				9							16			49

Total Acres: 49

Method of Determination: Bing (2011) Aerial Photography w/ field verification.

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. Well or DiversionID No.*Motor MakeHpMotor Serial No.Pump MakePump Serial No. or Discharge SizeNo Tag –US Motors751260900unknownunknown - 8" DischargeWC Well ID # 369287

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

D. FLOW MEASUREMENTS**1. Measurement Equipment**

	Type	Make/Model No.	Serial No.	Size	Calib. Date
No physical measurement @ exam	N/A	N/A	N/A	N/A	N/A

Supplemental well. System not operating @ exam. See Flow Calculations Section below for Theoretical HP Equation and Sprinkler System/Pivot flow estimations.

2. Measurements: None taken at exam, supplemental well – did not require owner to turn on well pump during exam.

E. FLOW CALCULATIONS

 X Additional Computation Sheets Attached

Measured Method: Theoretical HP Equation:

HP = 75

PSI = 10 (open discharge est. – water from well piped to pond, open discharge into pond, from pond pumped and piped to pivots)

Z = 195 ft (Well Log indicates drawdown of 100 ft + static of 95 ft)

$Q = (8.8 \times 0.7 \times \text{HP}) / [Z + (2.31 \times \text{PSI})] = (8.8 \times 0.7 \times 75) / [195 + (2.31 \times 10)] = 2.12 \text{ cfs}$ est. capacity of pumping system

Measured Method: Sprinkler System/Pivot (Owner use/operation):

Run large pivot (~ 60 acres) @ 0.02 cfs/ac => $Q = 60 \text{ ac} \times 0.02 \text{ cfs/ac} = 1.20 \text{ cfs}$ est. system diversion/use.

OR

Run 2 small pivots at once (~ 45 acres) @ 0.02 cfs/ac => $Q = 45 \text{ ac} \times 0.02 \text{ cfs/ac} = 0.90 \text{ cfs}$ est. system diversion/use.

Owner indicated system not capable of diverting enough water to run both the large pivot and the 2 smaller ones simultaneously => $Q \leq 2.10 \text{ cfs}$ (1.20 cfs + 0.90 cfs)

Theoretical HP Equation est. capacity of pumping system = **2.12 cfs**

Well Capacity per Owner witnessed Pump Test $\leq 2.10 \text{ cfs}$

Permitted Rate = **1.34 cfs**

Beneficial Use Limit = $49 \text{ ac} \times 0.02 \text{ cfs/ac} = 0.98 \text{ cfs}$

Rate Per Acre for System based on Theoretical HP Equation capacity/total acres irrigated by well = $\{[2.12 \text{ cfs} / [49 \text{ ac}(63-31394) + 90 \text{ ac}(63-31395)]] \times 49 \text{ ac}(63-31394)\} = 0.75 \text{ cfs}$

Proof of Beneficial Use fee paid = \$125.00 = up to **2.00 cfs**

Recommend Rate Per Acre for System = 0.75 cfs

Theoretical HP Equation est. 2.12 cfs used to approximate system capacity for purposes of recommending a system rate per acre for this permit. System not capable of instantaneously diverting a full 0.02cfs/ac for all acres from this right (63-31394) and POD overlapping right (63-31395) [b.u. limit 0.98 cfs for 63-31394 + 1.8 cfs for 63-31395 = 2.78 cfs], so a rate limitation/rate per acre analysis is appropriate in this instance. Without system measurement, cannot justify recommending rate other than Theoretical HP Equation est. for system capacity. Rate recommended for this right (63-31394) 0.75 cfs + overlapping right (63-31395) rate 1.8 cfs = 2.55 cfs > system capacity est. 2.12 cfs => combined rate limiting condition applicable. Diversion authorized via rights 63-31394 and 63-31395 in combination shall not exceed 2.12 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 49 \text{ ac} \times 4.5 \text{ afa/ac} = 220.5 \text{ afa}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.75 \text{ cfs} \times 260 \text{ days} \times 1.9835 = 386.8 \text{ afa}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 220.5 \text{ afa} < 386.8 \text{ afa} = \text{Recommend } 220.5 \text{ afa}$$

Overall system capacity 2.12 cfs => $2.12 \text{ cfs} \times 260 \text{ days} \times 1.9835 = 1093.3 \text{ afa}$ system diversion volume. System authorized to divert 405.0 afa (63-31395) + 220.5 afa (63-31394) = 625.5 afa < 1093.3 afa => no combined volume limiting condition applicable considering system capable of diverting enough volume for both rights.

2. Volume Calculations for Other Uses: N/A. No other uses permitted.

G. NARRATIVE/REMARKS/COMMENTS**SYSTEM DESCRIPTION:**

System consists of a 16" dia 482 ft deep well with an 8" steel discharge line to an 8" aluminum line to buried 8" PVC pipe discharges water into a small regulating pond (storage n.a.) from which water is pumped with a 75 hp motor and pump into 8" buried lines to pivots for irrigation. Blickenstaff participates in a canal exchange (discharge well water to canal in turn divert water from canal upstream of where well water discharged into canal) when using the supplemental well for POU field in the N3/4 of SENW. The remainder of the POU is irrigated with pivots feed with water pumped from the small regulating pond. Blickenstaff stated the well can produce enough water to run the large pivot (irrigates ~ 60 ac within 63-31395 POU) OR the two smaller pivots (irrigates ~ 40 ac within 63-31394 POU), but not enough to run all three pivots at once.

IRRIGATION PRACTICES:

This well is used to supplement surface water irrigation within the POU. Same distribution system for both ground and surface water. Blickenstaff irrigates the POU via sprinkler/pivot irrigation and gravity irrigation. Crops grown include wheat, alfalfa, and corn. Supplemental well used when canal water not available or in low supply.

OVERLAP:

Surface water from Boise Kuna Irrigation District serves as primary source of water for irrigation of POU. Primary ground water irrigation rights 63-7310C, 63-7310D, and 63-31395 authorize the well as a POD. During the field exam, Blickenstaff indicated the connection/pipeline from the well to rights 63-7310C and 63-7310D has been severed. In other words, during development of this permit (63-31394), the well only served as a POD for right 63-31395 and this permit. Rights 63-7310C and 63-7310D list this well as a POD along with an alternative POD well. Considering the well no longer supplies water for rights 63-7310C and 63-7310D, these rights and their combined use limitations were not included in the overlap analysis done for this permit. There are no other overlapping rights associated with the POU or POD.

OVERLAP CONDITION RECOMMENDATIONS:

To fully illustrated POD overlap and combined use limitations the following conditions are recommended for licensing of 63-31394:

1. (F06 Modified) The following rights are diverted through the point of diversion described above: 63-31394 and 63-31395. The following older rights also authorize diversion from the point of diversion described above, but also have an alternative point of diversion: 63-7610C and 63-7610D.
2. (X35 Modified) Rights 63-31394 and 63-31395 when combined shall not exceed a total diversion rate of 2.12 cfs.

COMPLIANCE WITH PERMIT CONDITIONS:

Use of ground water under this right is supplemental to surface water in accordance with conditions of the permit. No new well drilled nor an existing well enlarged or deepened after this permit issued. Permitted water bearing zone 101 to 482 ft. Per well log, water bearing zone is 101 to 482 ft. Diversion outside Bs 63 Ground Water Restricted Area. Recommend removing water bearing zone condition. To the best of my knowledge, owner has complied with all other permit conditions.

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	03/01 to 11/15	0.75 CFS	220.5 AF
<u>Totals:</u>		0.75 CFS	220.5 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 Angela M. Givens Date 12/20/2012
 Reviewer _____ Date _____

63-31394 Beneficial Use Field Report System Diagram & Map

R02W



0 0.05 0.1 0.2 Miles

- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections
- Quarter Quarters



USE TYPEWRITER OR
BALL POINT PEN

State of Idaho
Department of Water Administration

WELL DRILLER'S REPORT

State law requires that this report be filed with the State Reclamation Engineer
within 30 days after completion or abandonment of the well.

*Received
6-30-72
D 278*

1. WELL OWNER Name <u>Carl Agenbroad</u> Address <u>Nampa, Idaho 83651</u> Owner's Permit No. _____	7. WATER LEVEL Static water level <u>95</u> feet below land surface Flowing? ☐ Yes ☐ No G.P.M. flow _____ Temperature _____ ° F. Quality _____ Artesian closed-in pressure _____ p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug																																																																																																																																																																																																																																								
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (Describe method of abandonment)	8. WELL TEST DATA ☒ Pump ☐ Bailor ☐ Other <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Discharge G.P.M.</th> <th>Draw Down</th> <th>Hours Pumped</th> </tr> <tr> <td><u>3500</u></td> <td><u>100'</u></td> <td><u>5</u></td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	Discharge G.P.M.	Draw Down	Hours Pumped	<u>3500</u>	<u>100'</u>	<u>5</u>																																																																																																																																																																																																																																		
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4. METHOD DRILLED ☐ Cable ☒ Reverse ☐ Auger ☐ Other	5. WELL CONSTRUCTION Diameter of hole <u>27</u> inches Total depth <u>432</u> feet Casing schedule: ☒ Steel ☐ Concrete <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Thickness</th> <th>Diameter</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td><u>250</u> inches</td><td><u>14</u> inches</td><td><u>18</u> feet</td><td><u>232</u> feet</td></tr> <tr><td><u>250</u> inches</td><td><u>16</u> inches</td><td><u>232</u> feet</td><td><u>256</u> feet</td></tr> <tr><td><u>250</u> inches</td><td><u>16</u> inches</td><td><u>256</u> feet</td><td><u>301</u> feet</td></tr> <tr><td><u>250</u> inches</td><td><u>16</u> inches</td><td><u>301</u> feet</td><td><u>328</u> feet</td></tr> <tr><td><u>250</u> inches</td><td><u>16</u> inches</td><td><u>328</u> feet</td><td><u>336</u> feet</td></tr> </tbody> </table> Was a packer or seal used? ☒ Yes ☐ No Perforated? ☒ Yes ☐ No How perforated? ☒ Factory ☐ Knife ☐ Torch Size of perforation _____ inches by _____ inches <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Number</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr><td>_____ perforations</td><td><u>XXX</u> feet</td><td><u>XXX</u> feet</td></tr> <tr><td>_____ perforations</td><td><u>XXX</u> feet</td><td><u>XXX</u> feet</td></tr> <tr><td>_____ perforations</td><td><u>XXX</u> feet</td><td><u>XXX</u> feet</td></tr> </tbody> </table> Well screen installed? ☒ Yes ☐ No Manufacturer's name <u>Rosco Moss FreeFlo</u> Type _____ Model No. _____ Diameter of Slot size _____ Set from <u>232</u> feet to <u>253</u> feet Diameter _____ Slot size _____ Set from <u>256</u> feet to <u>301</u> feet _____ <u>328</u> <u>336</u> Gravel packed? ☒ Yes ☐ No Size of gravel <u>XXX</u> 1/8- Placed from _____ feet to _____ bottom _____ feet Surface seal? ☒ Yes ☐ No To what depth <u>193</u> feet Material used in seal ☒ Cement grout ☐ Pudding clay	Thickness	Diameter	From	To	<u>250</u> inches	<u>14</u> inches	<u>18</u> feet	<u>232</u> feet	<u>250</u> inches	<u>16</u> inches	<u>232</u> feet	<u>256</u> feet	<u>250</u> inches	<u>16</u> inches	<u>256</u> feet	<u>301</u> feet	<u>250</u> inches	<u>16</u> inches	<u>301</u> feet	<u>328</u> feet	<u>250</u> inches	<u>16</u> inches	<u>328</u> feet	<u>336</u> feet	Number	From	To	_____ perforations	<u>XXX</u> feet	<u>XXX</u> feet	_____ perforations	<u>XXX</u> feet	<u>XXX</u> feet	_____ perforations	<u>XXX</u> feet	<u>XXX</u> feet																																																																																																																																																																																																				
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USE ADDITIONAL SHEETS IF NECESSARY

FORWARD FIVE WHITE, BLUE, AND PINK COPIES TO THE DEPARTMENT

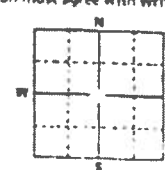
MICROFILMED

USE TYPEWRITER OR
BALL POINT PEN

State of Idaho
Department of Water Administration

WELL DRILLER'S REPORT

State law requires that this report be filed with the State Reclamation Engineer
within 30 days after completion or abandonment of the well.

1. WELL OWNER Name <u>Carl Peterson</u> Address _____ Owner's Permit No. _____		7. WATER LEVEL Static water level _____ feet below land surface Flowing? ☐ Yes ☐ No G.P.M. flow _____ Temperature _____ ° F. Quality _____ Artesian closed in pressure _____ p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug																																																																																																																																																																																																																																															
2. NATURE OF WORK ☐ New well ☐ Deepened ☐ Replacement ☐ Abandoned (Describe method of abandoning) _____		8. WELL TEST DATA ☐ Pump ☐ Bailor ☐ Other Discharge G.P.M. _____ Draw Down _____ Hours Pumped _____																																																																																																																																																																																																																																															
3. PROPOSED USE ☐ Domestic ☐ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock		9. LITHOLOGIC LOG <table border="1"><thead><tr><th rowspan="2">Hole Diam.</th><th colspan="2">Depth</th><th rowspan="2">Material</th><th colspan="2">Water</th></tr><tr><th>From</th><th>To</th><th>Yes</th><th>No</th></tr></thead><tbody><tr><td></td><td>213</td><td>217</td><td>gray blue clay</td><td></td><td></td></tr><tr><td></td><td>217</td><td>218</td><td>fine gray sand</td><td></td><td></td></tr><tr><td></td><td>218</td><td>223</td><td>blue clay</td><td></td><td></td></tr><tr><td></td><td>223</td><td>226</td><td>fine sand</td><td></td><td></td></tr><tr><td></td><td>226</td><td>230</td><td>blue clay</td><td></td><td></td></tr><tr><td></td><td>230</td><td>231</td><td>fine blue gray sand</td><td></td><td></td></tr><tr><td></td><td>231</td><td>233</td><td>clay</td><td></td><td></td></tr><tr><td></td><td>233</td><td>236</td><td>gray sand - fine</td><td></td><td></td></tr><tr><td></td><td>236</td><td>263</td><td>clay</td><td></td><td></td></tr><tr><td></td><td>263</td><td>266</td><td>fine gray sand</td><td></td><td></td></tr><tr><td></td><td>266</td><td>273</td><td>blue clay</td><td></td><td></td></tr><tr><td></td><td>273</td><td>276</td><td>gray gray sand</td><td></td><td></td></tr><tr><td></td><td>276</td><td>286</td><td>blue clay</td><td></td><td></td></tr><tr><td></td><td>286</td><td>287</td><td>sand</td><td></td><td></td></tr><tr><td></td><td>287</td><td>289</td><td>blue clay</td><td></td><td></td></tr><tr><td></td><td>289</td><td>303</td><td>gray sand</td><td></td><td></td></tr><tr><td></td><td>303</td><td>312</td><td>blue clay</td><td></td><td></td></tr><tr><td></td><td>312</td><td>313</td><td>extra fine gray sand</td><td></td><td></td></tr><tr><td></td><td>313</td><td>316</td><td>blue clay</td><td></td><td></td></tr><tr><td></td><td>316</td><td>318</td><td>fine gray sand</td><td></td><td></td></tr><tr><td></td><td>318</td><td>320</td><td>blue clay</td><td></td><td></td></tr><tr><td></td><td>320</td><td>321</td><td>sand</td><td></td><td></td></tr><tr><td></td><td>321</td><td>323</td><td>clay</td><td></td><td></td></tr><tr><td></td><td>323</td><td>324</td><td>sand</td><td></td><td></td></tr><tr><td></td><td>324</td><td>328</td><td>clay</td><td></td><td></td></tr><tr><td></td><td>328</td><td>338</td><td>sand</td><td></td><td></td></tr><tr><td></td><td>338</td><td>343</td><td>clay</td><td></td><td></td></tr><tr><td></td><td>343</td><td>346</td><td>sandy silty clay</td><td></td><td></td></tr><tr><td></td><td>346</td><td>353</td><td>~~coarse~~ fine gray sand</td><td></td><td></td></tr><tr><td></td><td>353</td><td>374</td><td>blue clay</td><td></td><td></td></tr><tr><td></td><td>374</td><td>386</td><td>fine gray sand</td><td></td><td></td></tr><tr><td></td><td>386</td><td>387</td><td>clay</td><td></td><td></td></tr><tr><td></td><td>387</td><td>388</td><td>alternate sand & clay</td><td></td><td></td></tr><tr><td></td><td>388</td><td>398</td><td>med. sand</td><td></td><td></td></tr><tr><td></td><td>398</td><td>401</td><td>clay</td><td></td><td></td></tr><tr><td></td><td>401</td><td>403</td><td>sand</td><td></td><td></td></tr><tr><td></td><td>403</td><td>406</td><td>clay</td><td></td><td></td></tr><tr><td></td><td>406</td><td>407</td><td>fine gray sand</td><td></td><td></td></tr></tbody></table>		Hole Diam.	Depth		Material	Water		From	To	Yes	No		213	217	gray blue clay				217	218	fine gray sand				218	223	blue clay				223	226	fine sand				226	230	blue clay				230	231	fine blue gray sand				231	233	clay				233	236	gray sand - fine				236	263	clay				263	266	fine gray sand				266	273	blue clay				273	276	gray gray sand				276	286	blue clay				286	287	sand				287	289	blue clay				289	303	gray sand				303	312	blue clay				312	313	extra fine gray sand				313	316	blue clay				316	318	fine gray sand				318	320	blue clay				320	321	sand				321	323	clay				323	324	sand				324	328	clay				328	338	sand				338	343	clay				343	346	sandy silty clay				346	353	~~coarse~~ fine gray sand				353	374	blue clay				374	386	fine gray sand				386	387	clay				387	388	alternate sand & clay				388	398	med. sand				398	401	clay				401	403	sand				403	406	clay				406	407	fine gray sand		
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6. LOCATION OF WELL Sketch map location must agree with written location.  County _____ _____ Sec. _____ T. _____ N. R. _____ W.		10. DRILLER'S CERTIFICATION This well was drilled under my supervision and this report is true to the best of my knowledge. Driller's or Firm's Name _____ Number _____ Address _____ Signed By _____ Date 6-28-72																																																																																																																																																																																																																																															

USE ADDITIONAL SHEETS IF NECESSARY

FORWARD THE WHITE, BLUE, AND PINK COPIES TO THE DEPARTMENT

MICROFILMED

SEP 23 2002

State of Idaho
Department of Water Administration

State law requires that this report be filed with the State Reclamation Engineer within 30 days after completion or abandonment of the well.

USE ADDITIONAL SHEETS IF NECESSARY

SEP 23 2002

63-31394 Beneficial Use Field Report Photos



63-31394 Exam 8/30/2012: POD facing south. Portion of POU for POD overlapping right 63-31395 under pivot on left side of photo.



63-31394 Exam 8/30/2012: Portion of POU beyond desert grass and fence, under small pivot in NWSE Section 27 T2N R2W facing west.



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

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

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

August 17, 2012

Ronald Blickenstaff
7488 Lynwood Rd.
Nampa, ID 83686

RE: Scheduling Field Exam for Water Right Permit No. 63-31394

Dear Mr. Blickenstaff:

We are planning to **conduct water right examinations** in the vicinity of the above-referenced permit **during the weeks of August 20 and August 27, 2012**. An examination is needed to verify your water use in order to issue a water right license.

Please be advised that you will need to operate your system under normal conditions during the examination. The permit authorizes diversion of ground water for supplemental irrigation of up to 67 acres.

In order to conduct your exam as efficiently as possible, we ask that you call this office to schedule a day and time convenient for you. **Please call me at 208-334-2190 by August 24, 2012.** If there is a problem with scheduling or conducting the examination at this time, please call and other arrangements can be made. I appreciate your attention in this matter and I look forward to hearing from you.

Sincerely,

A handwritten signature in black ink, appearing to read 'Angela M. Grimm', is written over a horizontal line.

Angela M. Grimm, P.G.
Water Resource Agent, Sr.